

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82J070170				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	1918.5	0.180
2,4-DNDPA	50.0	9.483	1128.5	26397.7	2.339
2,2' DNDPA	50.0	11.075	1789.9	151.9	0.000
2,4' DNDPA	50.0	11.744	1596.2	247.5	0.016
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	248.9	0.004
DPA	200.0	15.107	1617.9	490.2	0.121
N-NitrosoDPA	75.0	18.991	2304.9	428.7	0.000
				2.660	
Avg. % Stabilizer for Lot				2.660	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.66 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

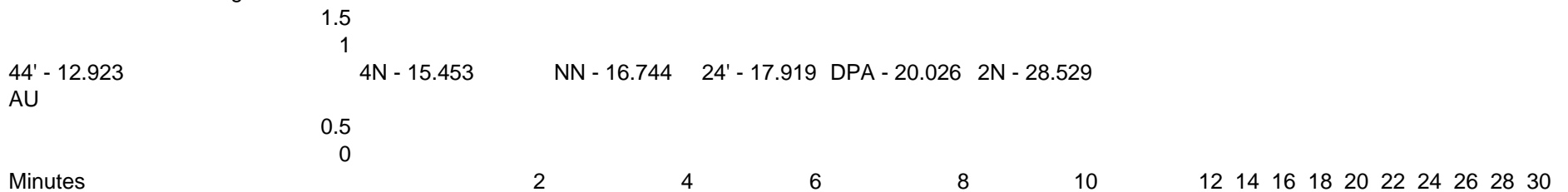
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070280				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	2194.4	0.206
2,4-DNDPA	50.0	9.483	1128.5	25398.6	2.251
2,2' DNDPA	50.0	11.075	1789.9	183.2	0.000
2,4' DNDPA	50.0	11.744	1596.2	197.1	0.012
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	112.6	0.002
DPA	200.0	15.107	1617.9	645.1	0.159
N-NitrosoDPA	75.0	18.991	2304.9	485.1	0.000
				2.630	
				Avg. % Stabilizer for Lot	
				2.630	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.63 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070448				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		4.152	1065.2	3146.4 0.295
2.4-DNDPA	50.0		9.483	1128.5	32287.2 2.861
2.2' DNDPA	50.0		11.075	1789.9	481.5 0.000
2.4' DNDPA	50.0		11.744	1596.2	239.9 0.015
4NDPA	50.0		12.553	2329	181.2 0.008
2NDPA	50.0		14.006	5766.8	335.1 0.006
DPA	200.0		15.107	1617.9	0 0.000
N-NitrosoDPA	75.0		18.991	2304.9	507.1 0.000
				3.185	
				Avg. % Stabilizer for Lot 3.185	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 3.19 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84B070327				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	2756.1	0.259
2,4-DNDPA	50.0	9.483	1128.5	30215	2.677
2,2' DNDPA	50.0	11.075	1789.9	452.5	0.000
2,4' DNDPA	50.0	11.744	1596.2	313.3	0.020
4NDPA	50.0	12.553	2329	198	0.009
2NDPA	50.0	14.006	5766.8	223.5	0.004
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	412.8	0.000
				2.968	
Avg. % Stabilizer for Lot				2.968	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.97 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

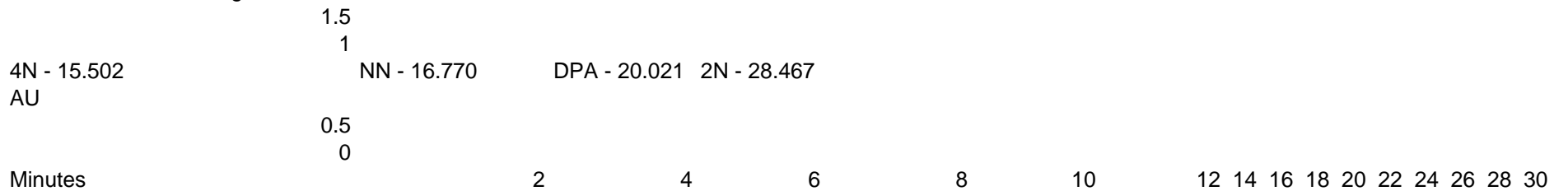
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070324				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.152	1065.2	3012.5
2,4-DNDPA	50.0		9.483	1128.5	31256
2,2' DNDPA	50.0		11.075	1789.9	325.6
2,4' DNDPA	50.0		11.744	1596.2	341.2
4NDPA	50.0		12.553	2329	212.8
2NDPA	50.0		14.006	5766.8	465
DPA	200.0		15.107	1617.9	0
N-NitrosoDPA	75.0		18.991	2304.9	412.8
				3.091	
				3.091	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 3.09 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

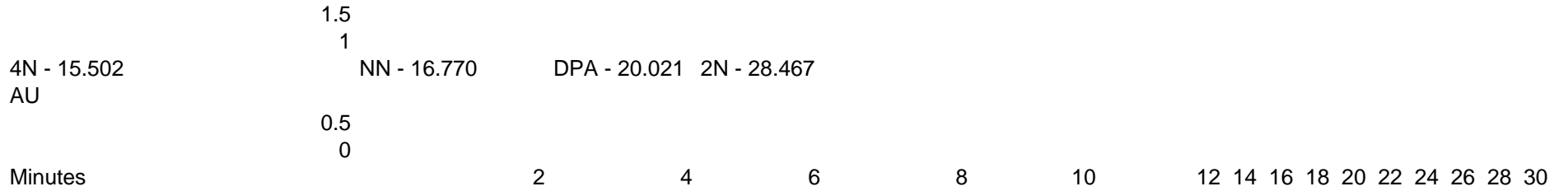
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070173				D533 / M6 propellant	
Date of analysis:				Date: 21 Apr 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.152	1065.2	3146.2 0.295
2,4-DNDPA	50.0		9.483	1128.5	28956.1 2.566
2,2' DNDPA	50.0		11.075	1789.9	196.4 0.000
2,4' DNDPA	50.0		11.744	1596.2	254 0.016
4NDPA	50.0		12.553	2329	0 0.000
2NDPA	50.0		14.006	5766.8	251.9 0.004
DPA	200.0		15.107	1617.9	612.3 0.151
N-NitrosoDPA	75.0		18.991	2304.9	398.1 0.000
				3.033	
				Avg. % Stabilizer for Lot 3.033	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 3.03 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86H070622				D533 / M6 propellant	
Date of analysis:				Date: 13 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.132	100.8	1072.1 <u>1.064</u>
2,4-DNDPA	50.0		4.946	626.5	0 <u>0.000</u>
2,2' DNDPA	50.0		7.024	1884.4	9288.9 <u>0.493</u>
2,4' DNDPA	50.0		9.985	761.1	0 <u>0.000</u>
4NDPA	50.0		11.543	1803.5	0 <u>0.000</u>
2NDPA	50.0		12.938	1442.5	0 <u>0.000</u>
DPA	200.0		14.345	3846.3	430.5 <u>0.045</u>
N-NitrosoDPA	75.0		15.356	1045	0 <u>0.000</u>
				1.601	
				Avg. % Stabilizer for Lot 1.601	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.60 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84B070325				D533 / M6 propellant	
Date of analysis:				Date: 13 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		2.132	100.8	988.2 <u>0.980</u>
2.4-DNDPA	50.0		4.946	626.5	0 <u>0.000</u>
2.2' DNDPA	50.0		7.024	1884.4	8490.4 <u>0.451</u>
2.4' DNDPA	50.0		9.985	761.1	0 <u>0.000</u>
4NDPA	50.0		11.543	1803.5	0 <u>0.000</u>
2NDPA	50.0		12.938	1442.5	0 <u>0.000</u>
DPA	200.0		14.345	3846.3	205.9 <u>0.021</u>
N-NitrosoDPA	75.0		15.356	1045	0 <u>0.000</u>
				1.453	
				Avg. % Stabilizer for Lot 1.453	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.45 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070584

D533 / M6 propellant

Date of analysis:

Date: 23 AUG 2010

Other Information
M6 Propellant

Sample Data

#1 0.5000 g

Solvent

100 ml ACN

Standards (ERG-006)

Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	Sample #
4,4' DNDPA	50.0			0	0	0.000
2,4-DNDPA	50.0		4.884	715.1	0	0.000
2,2' DNDPA	50.0		9.663	794.8	6492.8	0.817
2,4' DNDPA	50.0		11.213	1155.8	0	0.000
4NDPA	50.0		11.899	750.7	0	0.000
2NDPA	50.0		12.536	1565	0	0.000
DPA	200.0		13.934	4151.3	0	0.000
N-NitrosoDPA	75.0		14.875	1080.5	155.1	0.022

Avg. % Stabilizer for Lot

0.839

0.839

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Kisha Dickerson

Avg. Tot. Stabilizers **0.84** % %

Analyst Signature

Stable YES Unstable

Lab. Supervisor Signature

Comments CATEGORY: **A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84M070459				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0	4.884	715.1	0	0.000
2,2' DNDPA	50.0	9.663	794.8	4962	0.594
2,4' DNDPA	50.0	11.213	1155.8	0	0.000
4NDPA	50.0	11.899	750.7	0	0.000
2NDPA	50.0	12.536	1565	0	0.000
DPA	200.0	13.934	4151.3	0	0.000
N-NitrosoDPA	75.0	14.875	1080.5		112.9
					0.613
Avg. % Stabilizer for Lot					0.613
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.61 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

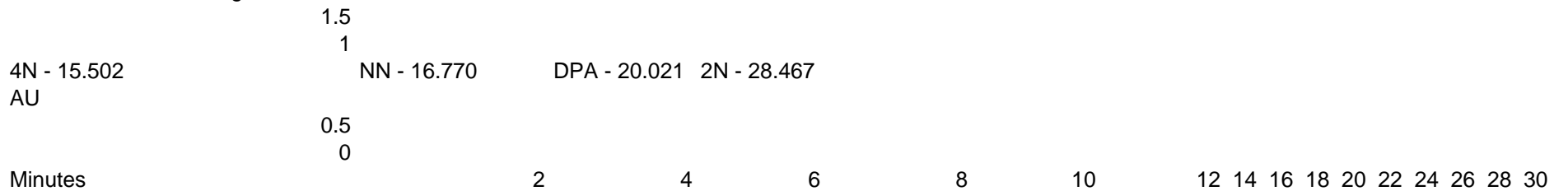
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84M070460				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0	4.884	715.1		0 0.000
2,2' DNDPA	50.0	9.663	794.8	12269.6	1.544
2,4' DNDPA	50.0	11.213	1155.8	0	0.000
4NDPA	50.0	11.899	750.7	0	0.000
2NDPA	50.0	12.536	1565	0	0.000
DPA	200.0	13.934	4151.3	0	0.000
N-NitrosoDPA	75.0	14.875	1080.5		0 0.000
					555.3 0.077
					1.621
			Avg. % Stabilizer for Lot		1.621
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.62 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84H070442				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0	4.884	715.1		0 0.000
2,2' DNDPA	50.0	9.663	794.8	14921.5	1.877
2,4' DNDPA	50.0	11.213	1155.8	0	0.000
4NDPA	50.0	11.899	750.7	0	0.000
2NDPA	50.0	12.536	1565	0	0.000
DPA	200.0	13.934	4151.3	0	0.000
N-NitrosoDPA	75.0	14.875	1080.5		460.5 0.064
				1.941	
Avg. % Stabilizer for Lot				1.941	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.94 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84H070443

D533 / M6 propellant

Date of analysis:

Date: 23 AUG 2010

Other Information
M6 Propellant

Sample Data

#1 0.5000 g

Solvent

100 ml ACN

Standards (ERG-006)

Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Sample #	Intg. Area	Conc. %
4,4' DNDPA	50.0					
2,4-DNDPA	50.0		4.884			0
2,2' DNDPA	50.0		9.663			316.3
2,4' DNDPA	50.0		11.213			0
4NDPA	50.0		11.899			0
2NDPA	50.0		12.536			0
DPA	200.0		13.934			0
N-NitrosoDPA	75.0		14.875			30.5

Avg. % Stabilizer for Lot

0.402

0.402

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Kisha Dickerson

Avg. Tot. Stabilizers **0.40** % %

Analyst Signature

Stable YES Unstable

Lab. Supervisor Signature

Comments CATEGORY: A

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81E070022				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0	4.884	715.1	0	0.000
2,2' DNDPA	50.0	9.663	794.8	17278.9	2.174
2,4' DNDPA	50.0	11.213	1155.8	0	0.000
4NDPA	50.0	11.899	750.7	0	0.000
2NDPA	50.0	12.536	1565	0	0.000
DPA	200.0	13.934	4151.3	0	0.000
N-NitrosoDPA	75.0	14.875	1080.5	451.1	0.063
				2.237	
Avg. % Stabilizer for Lot				2.237	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.24 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

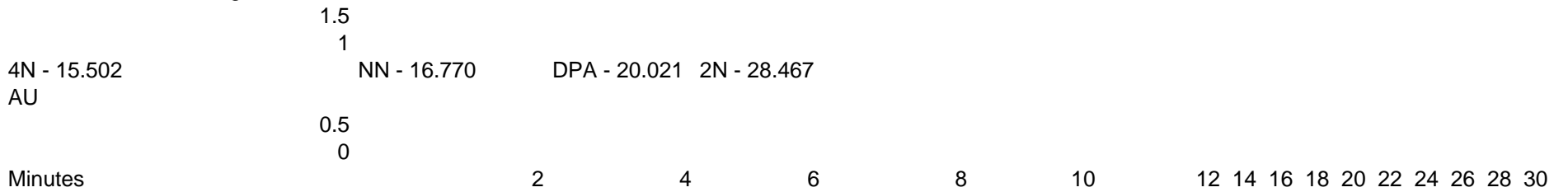
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87A070677

D533 / M6 propellant

Date of analysis:

Date: 23 AUG 2010

Other Information
M6 Propellant

Sample Data

#1 0.5000 g

Solvent

100 ml ACN

Standards (ERG-006)

Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Sample #	Intg. Area	Conc. %
4,4' DNDPA	50.0					
2,4-DNDPA	50.0		4.884			0 0.000
2,2' DNDPA	50.0		9.663		4280.5	0.539
2,4' DNDPA	50.0		11.213			0 0.000
4NDPA	50.0		11.899			0 0.000
2NDPA	50.0		12.536			0 0.000
DPA	200.0		13.934			0 0.000
N-NitrosoDPA	75.0		14.875			171.4 0.024

Avg. % Stabilizer for Lot

0.563

0.563

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Kisha Dickerson

Avg. Tot. Stabilizers **0.56** % %

Analyst Signature

Stable YES Unstable

Lab. Supervisor Signature

Comments CATEGORY: **A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87D070450				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0		4.884	715.1	0 0.000
2,2' DNDPA	50.0		9.663	794.8	5124.3 0.645
2,4' DNDPA	50.0		11.213	1155.8	0 0.000
4NDPA	50.0		11.899	750.7	0 0.000
2NDPA	50.0		12.536	1565	0 0.000
DPA	200.0		13.934	4151.3	0 0.000
N-NitrosoDPA	75.0		14.875	1080.5	46.7 0.006
				0.651	
				0.651	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87B070678				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		0 0.000
2,4-DNDPA	50.0		4.884	715.1	0 0.000
2,2' DNDPA	50.0		9.663	794.8	4129.3 0.520
2,4' DNDPA	50.0		11.213	1155.8	0 0.000
4NDPA	50.0		11.899	750.7	0 0.000
2NDPA	50.0		12.536	1565	0 0.000
DPA	200.0		13.934	4151.3	0 0.000
N-NitrosoDPA	75.0		14.875	1080.5	0 0.000
				0.520	
				Avg. % Stabilizer for Lot 0.520	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.52 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070513				D533 / M6 propellant	
Date of analysis:				Date: 23 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0		
2,4-DNDPA	50.0	4.884	715.1	0	0.000
2,2' DNDPA	50.0	9.663	794.8	16458	2.071
2,4' DNDPA	50.0	11.213	1155.8	0	0.000
4NDPA	50.0	11.899	750.7	0	0.000
2NDPA	50.0	12.536	1565	0	0.000
DPA	200.0	13.934	4151.3	0	0.000
N-NitrosoDPA	75.0	14.875	1080.5	178.9	0.025
				2.096	
				2.096	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.10 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

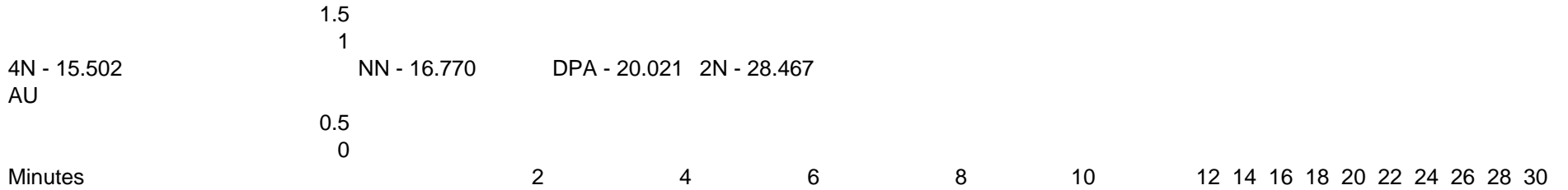
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87B070680				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	1910.7	1.304
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	15515.7	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	505.3	0.041
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
				1.346	
				Avg. % Stabilizer for Lot	
				1.346	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.35 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86A070610				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	1954.1	1.334
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	16925.7	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	517.3	0.042
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
				1.376	
				Avg. % Stabilizer for Lot 1.376	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.38 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86A070610				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.177	146.5	1954.1 <u>1.334</u>
2,4-DNDPA	50.0		5.001	961.7	0 <u>0.000</u>
2,2' DNDPA	50.0		7.038	2567.5	16925.7 <u>0.000</u>
2,4' DNDPA	50.0		9.931	938.5	0 <u>0.000</u>
4NDPA	50.0		11.434	1325.8	0 <u>0.000</u>
2NDPA	50.0		12.813	1809.7	0 <u>0.000</u>
DPA	200.0		14.19	4886.9	517.3 <u>0.042</u>
N-NitrosoDPA	75.0		15.18	1296.7	0 <u>0.000</u>
			Avg. % Stabilizer for Lot		1.376 1.376
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.38 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

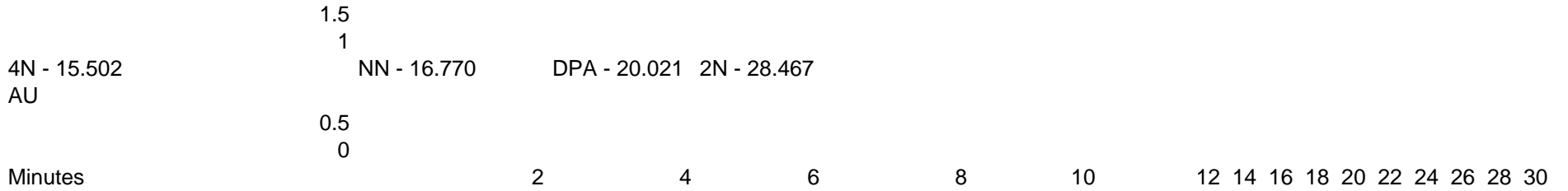
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85F070587				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	1821.4	1.243
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	14427.7	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	225	0.018
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
				1.262	
				Avg. % Stabilizer for Lot	
				1.262	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.26 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

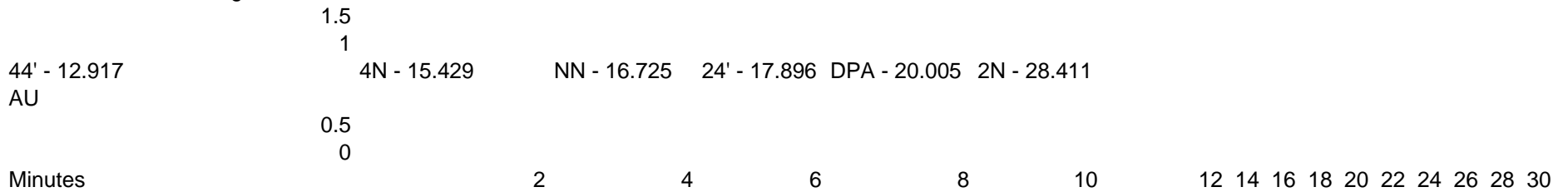
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

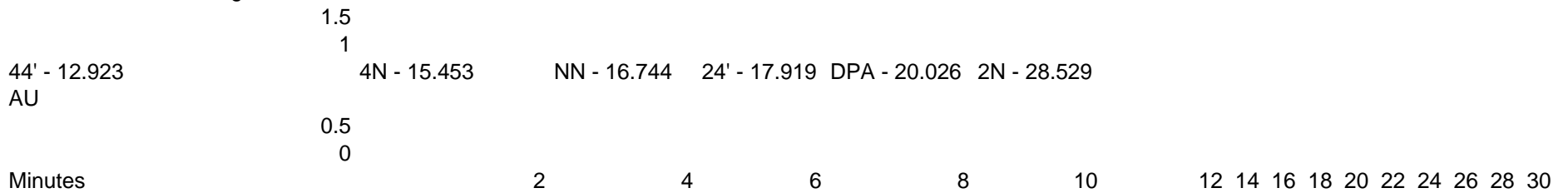
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

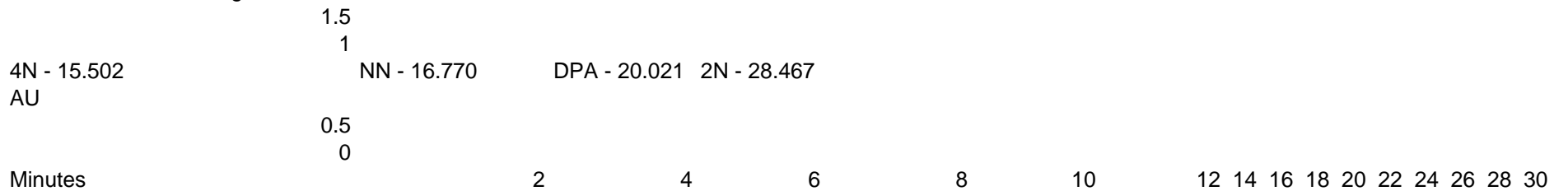
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88E070963				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	1369.8	0.935
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	12491.2	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	610.3	0.050
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
				0.985	
				0.985	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.98 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87E070713				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.177	146.5	1114.6 <u>0.761</u>
2,4-DNDPA	50.0		5.001	961.7	0 <u>0.000</u>
2,2' DNDPA	50.0		7.038	2567.5	10912.8 <u>0.000</u>
2,4' DNDPA	50.0		9.931	938.5	0 <u>0.000</u>
4NDPA	50.0		11.434	1325.8	0 <u>0.000</u>
2NDPA	50.0		12.813	1809.7	0 <u>0.000</u>
DPA	200.0		14.19	4886.9	471.8 <u>0.039</u>
N-NitrosoDPA	75.0		15.18	1296.7	0 <u>0.000</u>
				0.799	
				0.799	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson				Avg. Tot. Stabilizers 0.80 % %	
Analyst Signature				Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85K070598				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	1423.9	0.972
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	14670.5	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	403.2	0.033
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
Avg. % Stabilizer for Lot				1.005 1.005	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.00 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83L070321				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	146.5	933.3	0.637
2,4-DNDPA	50.0	5.001	961.7	0	0.000
2,2' DNDPA	50.0	7.038	2567.5	8113.4	0.000
2,4' DNDPA	50.0	9.931	938.5	0	0.000
4NDPA	50.0	11.434	1325.8	0	0.000
2NDPA	50.0	12.813	1809.7	0	0.000
DPA	200.0	14.19	4886.9	106.2	0.009
N-NitrosoDPA	75.0	15.18	1296.7	0	0.000
				0.646	
				0.646	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.65 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

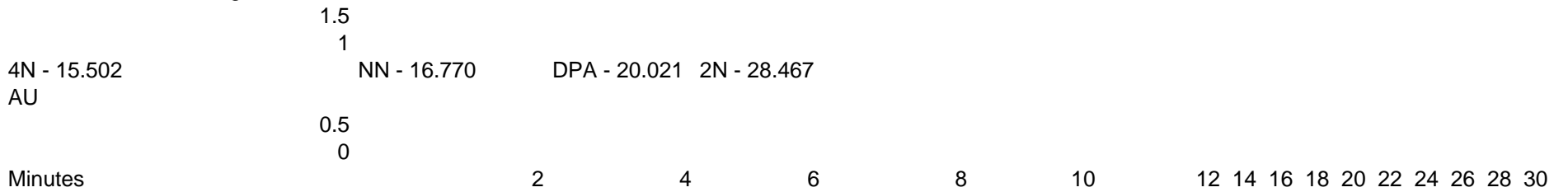
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85L070599				D533 / M6 propellant	
Date of analysis:				Date: 25 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.067	53.6	357.2	0.666
2,4-DNDPA	50.0	4.974	1311.7	0	0.000
2,2' DNDPA	50.0	7.162	716.8	3259.6	0.000
2,4' DNDPA	50.0	10.292	796.4	0	0.000
4NDPA	50.0	11.89	1129.4	0	0.000
2NDPA	50.0	13.413	1508.5	0	0.000
DPA	200.0	14.855	4249.3	53.3	0.005
N-NitrosoDPA	75.0	15.953	999.7	0	0.000
				0.671	
				Avg. % Stabilizer for Lot	
				0.671	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.67 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070507 **D533 / M6 propellant**

Date of analysis: **Date: 6 AUG 2010**

Other Information M6 Propellant	Sample Data #1 0.5000 g Solvent 100 ml ACN
---	--

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.976	803.2	1831.6 <u>0.228</u>
2,4-DNDPA	50.0		7.112	457.3	851.8 <u>0.186</u>
2,2' DNDPA	50.0		10.195	758.9	11270.5 <u>0.000</u>
2,4' DNDPA	50.0		11.77	1129.3	0 <u>0.000</u>
4NDPA	50.0		12.439	853.7	0 <u>0.000</u>
2NDPA	50.0		13.249	1491.4	0 <u>0.000</u>
DPA	200.0		14.689	4122.8	0 <u>0.000</u>
N-NitrosoDPA	75.0		15.755	1124.1	520.3 <u>0.000</u>

Avg. % Stabilizer for Lot	0.414 0.414
---------------------------	-----------------------

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile **Avg. Tot. Stabilizers 0.41 % %**

Analyst Signature Stable YES Unstable

Lab. Supervisor Signature **Comments** CATEGORY: **A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

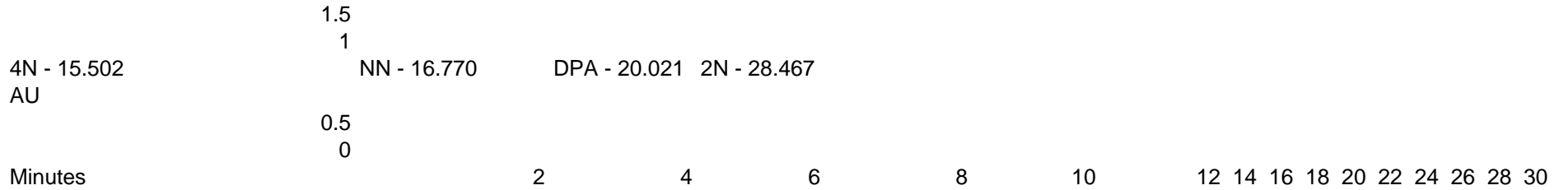
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81B070013				D533 / M6 propellant	
Date of analysis:				Date: 6 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		1	0	0.000
2,4-DNDPA	50.0		4.91	382.3	0
2,2' DNDPA	50.0		9.825	437	3372.3
2,4' DNDPA	50.0		11.341	632.4	0
4NDPA	50.0		11.95	441.7	0
2NDPA	50.0		12.713	827.6	0
DPA	200.0		14.06	2176	136.8
N-NitrosoDPA	75.0		14.999	558.4	0
Avg. % Stabilizer for Lot					0.797 0.797
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	Mike Kile			Avg. Tot. Stabilizers 0.80 % %	
Analyst Signature				Stable	YES Unstable
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070175				D533 / M6 propellant	
Date of analysis:				Date: 6 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		1	0	0.000
2,4-DNDPA	50.0		4.91	382.3	5134.1
2,2' DNDPA	50.0		9.825	437	0
2,4' DNDPA	50.0		11.341	632.4	87.4
4NDPA	50.0		11.95	441.7	0
2NDPA	50.0		12.713	827.6	192.5
DPA	200.0		14.06	2176	90.1
N-NitrosoDPA	75.0		14.999	558.4	254.6
				1.465	
Avg. % Stabilizer for Lot				1.465	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.46 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89D071039				D533 / M6 propellant	
Date of analysis:				Date: 6 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		1	0	0.000
2,4-DNDPA	50.0		4.91	382.3	0
2,2' DNDPA	50.0		9.825	437	5924.1
2,4' DNDPA	50.0		11.341	632.4	0
4NDPA	50.0		11.95	441.7	96.8
2NDPA	50.0		12.713	827.6	0
DPA	200.0		14.06	2176	414.8
N-NitrosoDPA	75.0		14.999	558.4	0
Avg. % Stabilizer for Lot					1.454 1.454
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.45 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82M070224				D533 / M6 propellant	
Date of analysis:				Date: 6 AUG 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		1	0	0.000
2,4-DNDPA	50.0		4.91	382.3	0
2,2' DNDPA	50.0		9.825	437	5386.5
2,4' DNDPA	50.0		11.341	632.4	0
4NDPA	50.0		11.95	441.7	0
2NDPA	50.0		12.713	827.6	0
DPA	200.0		14.06	2176	191.1
N-NitrosoDPA	75.0		14.999	558.4	0
				1.268	
Avg. % Stabilizer for Lot				1.268	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	Mike Kile			Avg. Tot. Stabilizers 1.27 % %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

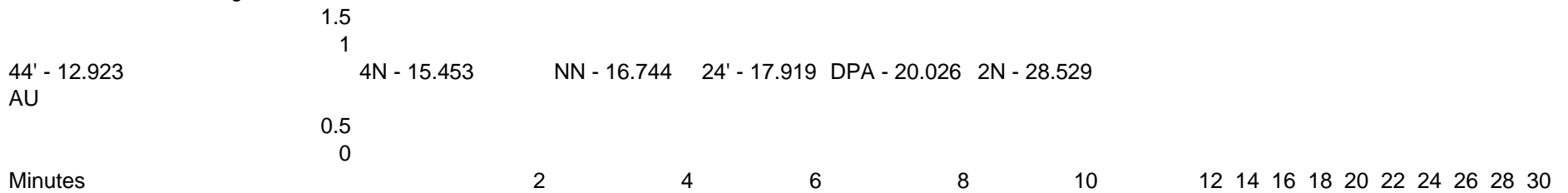
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85F070588				D533 / M6 propellant	
Date of analysis:				Date: 20 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.059	87.1	1411.1	1.620
2,4-DNDPA	50.0	5.198	631.9	845.8	0.134
2,2' DNDPA	50.0	7.699	1074.2	15722.5	0.000
2,4' DNDPA	50.0	11.782	545	0	0.000
4NDPA	50.0	13.513	1464.9	246.8	0.017
2NDPA	50.0	15.189	1011.6	0	0.000
DPA	200.0	16.638	2894.7	309.8	0.043
N-NitrosoDPA	75.0	18.069	720.1	0	0.000
				1.814	
				1.814	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.81 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

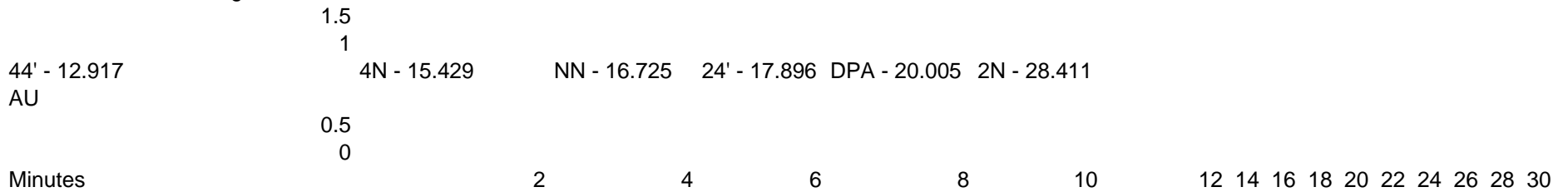
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

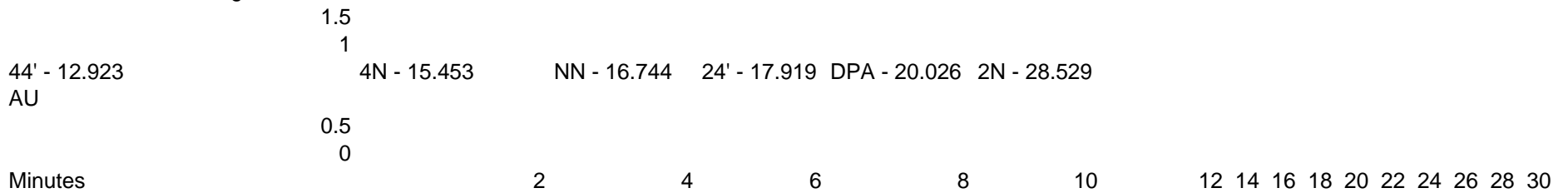
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82BY70105				D533 / M6 propellant	
Date of analysis:				Date: 20 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.059	87.1	870.2	0.999
2,4-DNDPA	50.0	5.198	631.9	0	0.000
2,2' DNDPA	50.0	7.699	1074.2	13295.9	0.000
2,4' DNDPA	50.0	11.782	545	0	0.000
4NDPA	50.0	13.513	1464.9	0	0.000
2NDPA	50.0	15.189	1011.6	0	0.000
DPA	200.0	16.638	2894.7	21	0.003
N-NitrosoDPA	75.0	18.069	720.1	0	0.000
				1.002	
Avg. % Stabilizer for Lot				1.002	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.00 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

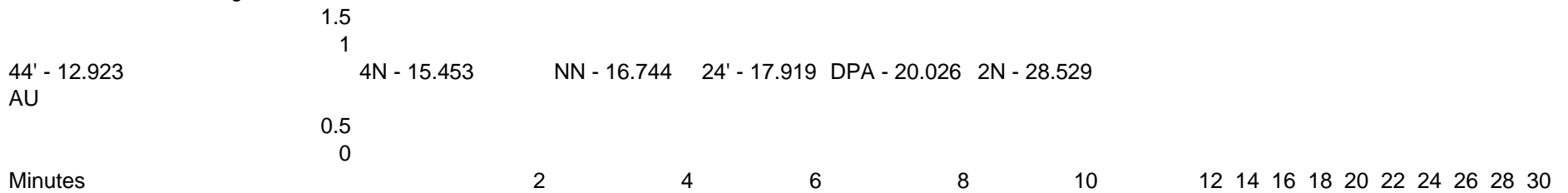
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81C070014				D533 / M6 propellant	
Date of analysis:				Date: 20 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.059	87.1	1118.2	1.284
2,4-DNDPA	50.0	5.198	631.9	0	0.000
2,2' DNDPA	50.0	7.699	1074.2	13386.7	0.000
2,4' DNDPA	50.0	11.782	545	0	0.000
4NDPA	50.0	13.513	1464.9	0	0.000
2NDPA	50.0	15.189	1011.6	0	0.000
DPA	200.0	16.638	2894.7	320.3	0.044
N-NitrosoDPA	75.0	18.069	720.1	0	0.000
Avg. % Stabilizer for Lot				1.328	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.33 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82E070115				D533 / M6 propellant	
Date of analysis:				Date: 20 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.059	87.1	1217.3	1.398
2,4-DNDPA	50.0	5.198	631.9	0	0.000
2,2' DNDPA	50.0	7.699	1074.2	15646.9	0.000
2,4' DNDPA	50.0	11.782	545	0	0.000
4NDPA	50.0	13.513	1464.9	0	0.000
2NDPA	50.0	15.189	1011.6	0	0.000
DPA	200.0	16.638	2894.7	557.1	0.077
N-NitrosoDPA	75.0	18.069	720.1	0	0.000
				1.475	
				Avg. % Stabilizer for Lot 1.475	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.47 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

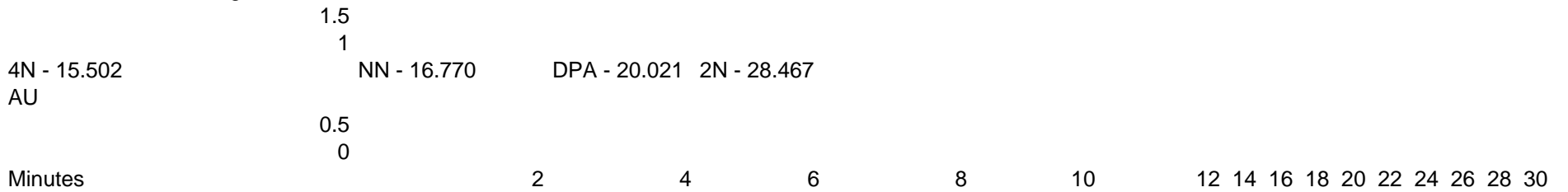
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81H070063				D533 / M6 propellant	
Date of analysis:				Date: 20 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.059	87.1	1245.2	1.430
2,4-DNDPA	50.0	5.198	631.9	1528.1	0.242
2,2' DNDPA	50.0	7.699	1074.2	15297.7	0.000
2,4' DNDPA	50.0	11.782	545	457.9	0.084
4NDPA	50.0	13.513	1464.9	0	0.000
2NDPA	50.0	15.189	1011.6	0	0.000
DPA	200.0	16.638	2894.7	262.6	0.036
N-NitrosoDPA	75.0	18.069	720.1	0	0.000
Avg. % Stabilizer for Lot					1.792
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.79 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070110				D533 / M6 propellant	
Date of analysis:				Date: 22 Dec 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.041	1072.9	2143.5	0.200
2,4-DNDPA	50.0	9.403	1132.4	24322.3	2.148
2,2' DNDPA	50.0	11.071	1654.7	101.9	0.000
2,4' DNDPA	50.0	11.863	1176.6	0	0.000
4NDPA	50.0	12.612	2267.7	151.7	0.007
2NDPA	50.0	14.156	6085.2	306.8	0.005
DPA	200.0	15.296	1602.1	0	0.000
N-NitrosoDPA	75.0	19.37	2345.7	297.8	0.000
				2.359	
				Avg. % Stabilizer for Lot 2.359	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 2.36 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

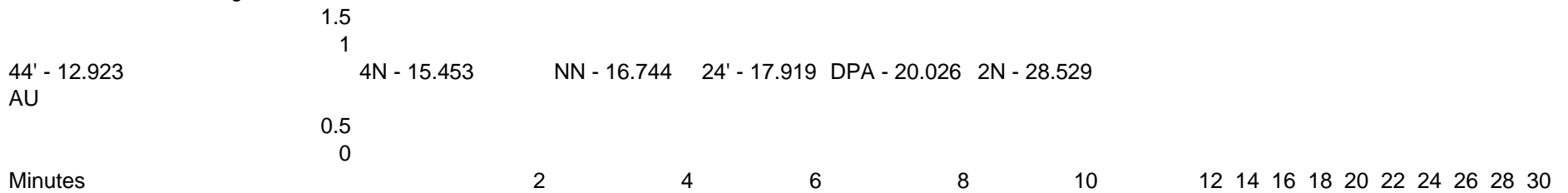
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

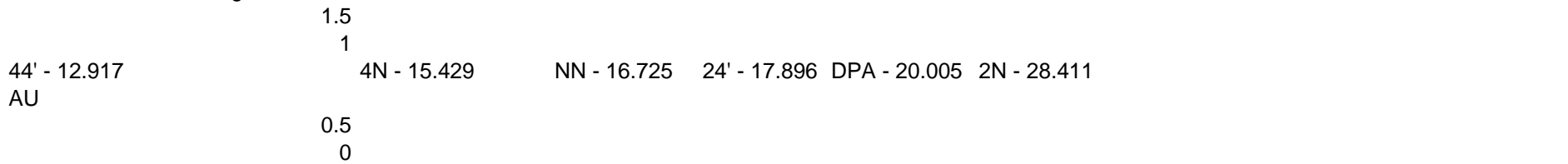
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

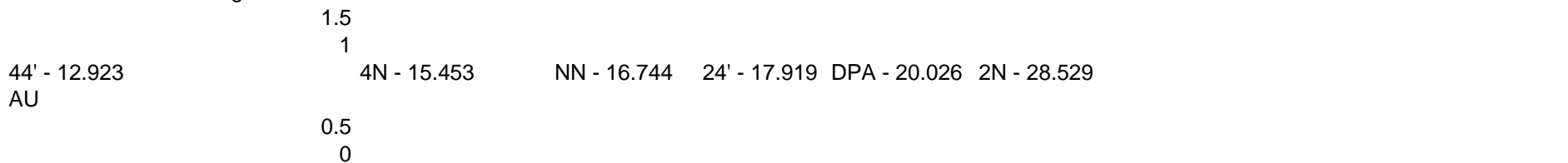
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

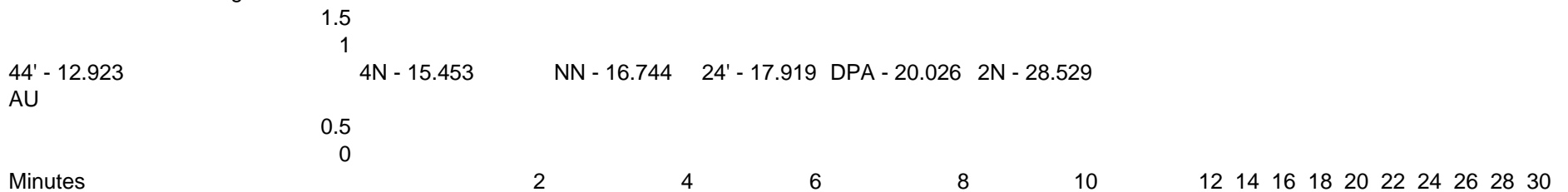
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82C070018				D533 / M6 propellant	
Date of analysis:				Date: 1 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.156	1116	1700.7 0.152
2,4-DNDPA	50.0		9.388	1191.2	25833.5 2.169
2,2' DNDPA	50.0		10.987	1694.7	39.1 0.000
2,4' DNDPA	50.0		11.73	1272.3	96.5 0.008
4NDPA	50.0		12.459	2443.3	0 0.000
2NDPA	50.0		13.939	5852.1	543.2 0.009
DPA	200.0		15.022	1753.1	0 0.000
N-NitrosoDPA	75.0		18.932	2535.1	835.5 0.000
				2.338	
				Avg. % Stabilizer for Lot 2.338	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.34 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

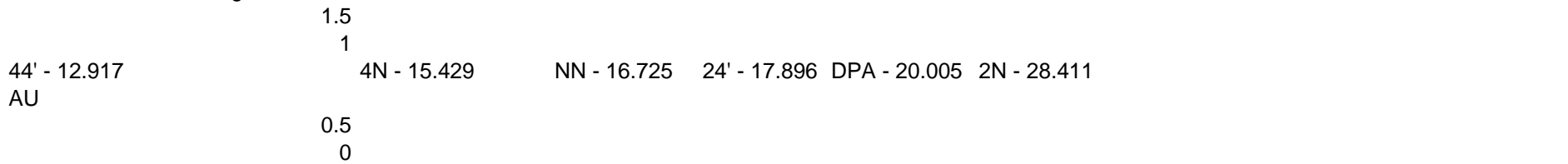
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.917	11923	709	0.015 micro gram
2	4N	15.429	119345	5819	0.07 micro gram
3	NN	16.725	43675	1982	0.061 micro gram
4	24'	17.896	25154	1151	0.014 micro gram
5	DPA	20.005	189585	7757	0.21 micro gram
6	22'	20.9			
7	24	22.4			
8	2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

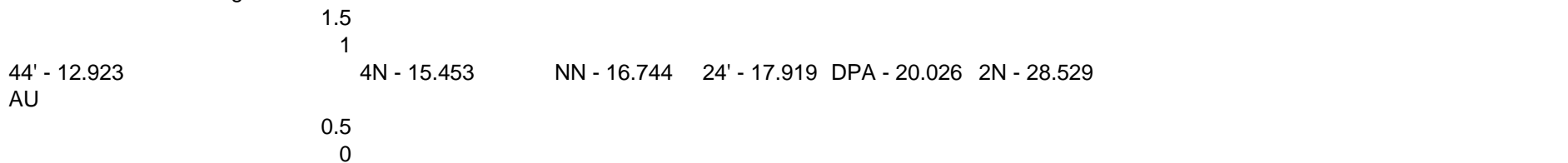
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.923	14984	870	0.018 micro gram
2	4N	15.453	121334	6049	0.072 micro gram
3	NN	16.744	54324	2521	0.075 micro gram
4	24'	17.919	33482	1475	0.018 micro gram
5	DPA	20.026	136705	5741	0.152 micro gram
6	22'	20.9			
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

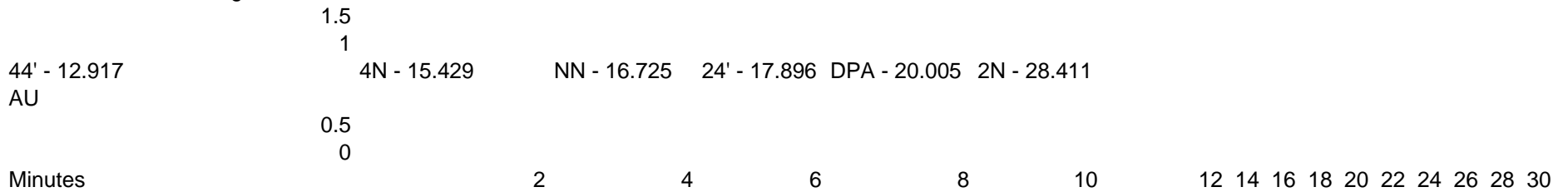
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

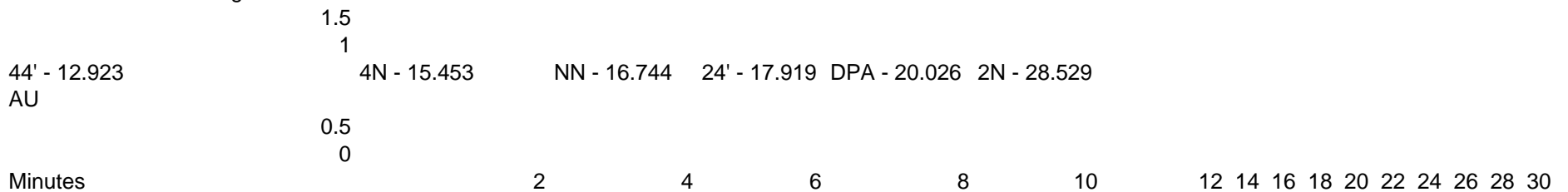
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

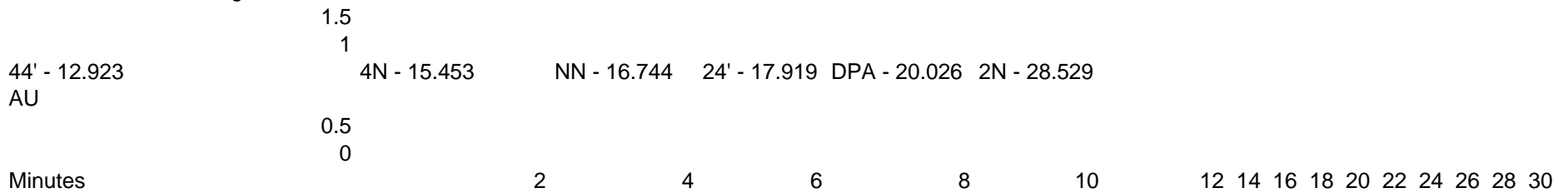
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

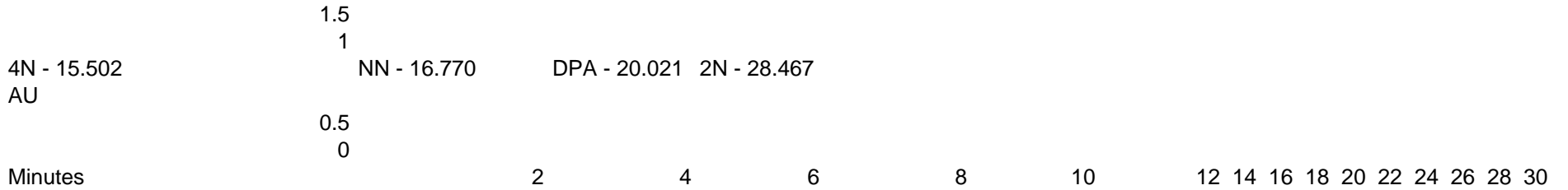
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070447				D533 / M6 propellant	
Date of analysis:				Date: 1 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.156	1116	2364.2 / 0.212
2,4-DNDPA	50.0		9.388	1191.2	27845.2 / 2.338
2,2' DNDPA	50.0		10.987	1694.7	98.8 / 0.000
2,4' DNDPA	50.0		11.73	1272.3	112.7 / 0.009
4NDPA	50.0		12.459	2443.3	0 / 0.000
2NDPA	50.0		13.939	5852.1	542.3 / 0.009
DPA	200.0		15.022	1753.1	0 / 0.000
N-NitrosoDPA	75.0		18.932	2535.1	419 / 0.000
				2.568	
				Avg. % Stabilizer for Lot 2.568	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.57 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83A070227				D533 / M6 propellant	
Date of analysis:				Date: 1 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.156	1116	2436.1 0.218
2,4-DNDPA	50.0		9.388	1191.2	22347.3 1.876
2,2' DNDPA	50.0		10.987	1694.7	118.9 0.000
2,4' DNDPA	50.0		11.73	1272.3	378.1 0.030
4NDPA	50.0		12.459	2443.3	0 0.000
2NDPA	50.0		13.939	5852.1	512.3 0.009
DPA	200.0		15.022	1753.1	0 0.000
N-NitrosoDPA	75.0		18.932	2535.1	321 0.000
				2.133	
				Avg. % Stabilizer for Lot 2.133	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.13 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070103				D533 / M6 propellant	
Date of analysis:				Date: 1 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.156	1116	2010.6 / 0.180
2,4-DNDPA	50.0		9.388	1191.2	25661.7 / 2.154
2,2' DNDPA	50.0		10.987	1694.7	43.3 / 0.000
2,4' DNDPA	50.0		11.73	1272.3	98.6 / 0.008
4NDPA	50.0		12.459	2443.3	0 / 0.000
2NDPA	50.0		13.939	5852.1	610.9 / 0.010
DPA	200.0		15.022	1753.1	195.5 / 0.045
N-NitrosoDPA	75.0		18.932	2535.1	610.2 / 0.000
				2.397	
				Avg. % Stabilizer for Lot 2.397	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

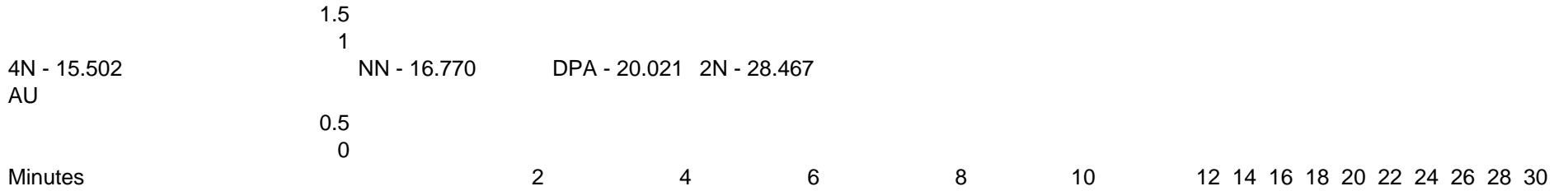
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070113				D533 / M6 propellant	
Date of analysis:				Date: 1 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		4.156	1116	2128.2 / 0.191
2,4-DNDPA	50.0		9.388	1191.2	25727.3 / 2.160
2,2' DNDPA	50.0		10.987	1694.7	53.4 / 0.000
2,4' DNDPA	50.0		11.73	1272.3	142.2 / 0.011
4NDPA	50.0		12.459	2443.3	0 / 0.000
2NDPA	50.0		13.939	5852.1	586.9 / 0.010
DPA	200.0		15.022	1753.1	0 / 0.000
N-NitrosoDPA	75.0		18.932	2535.1	214.5 / 0.000
				2.372	
				Avg. % Stabilizer for Lot 2.372	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.37 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

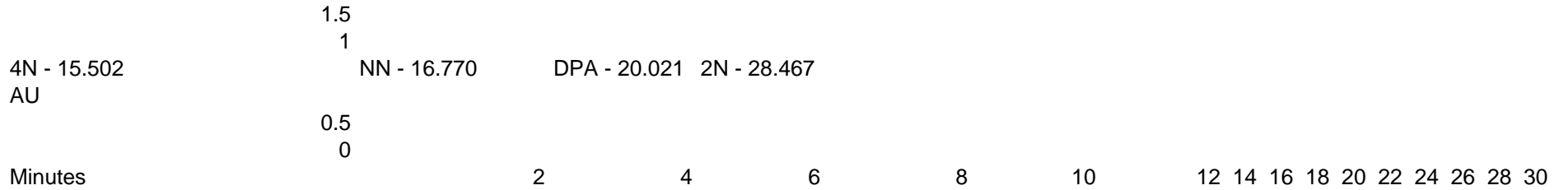
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

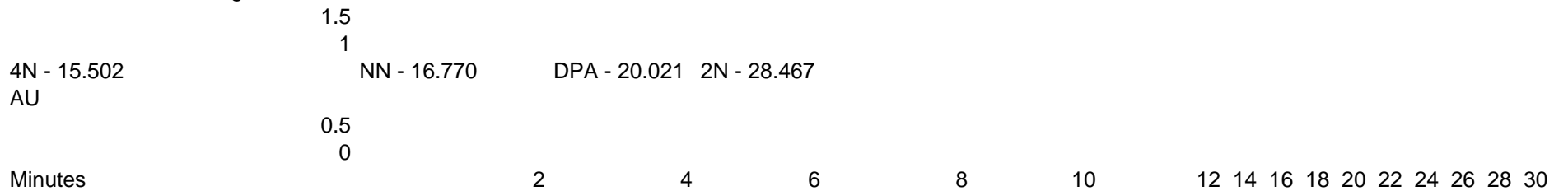
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467	24	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82F070162				D533 / M6 propellant	
Date of analysis:				Date: 24 FEB 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2367.1	0.228
2,4-DNDPA	50.0	9.543	1123.1	24569	2.188
2,2' DNDPA	50.0	11.155	1591.7	112	0.000
2,4' DNDPA	50.0	11.896	1220.2	97.5	0.008
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	481.2	0.009
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	596.7	0.000
				2.432	
				Avg. % Stabilizer for Lot 2.432	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.43 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

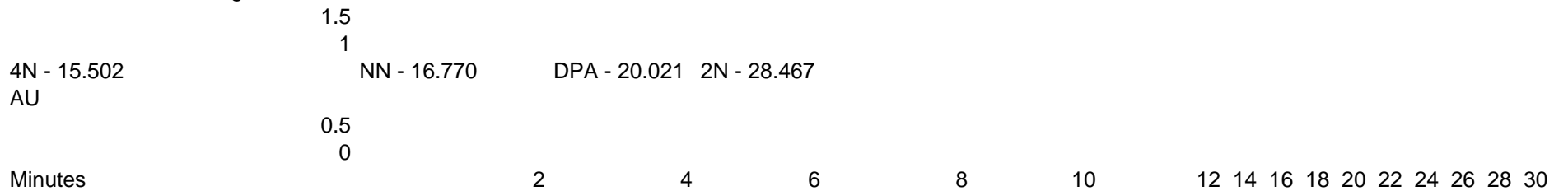
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

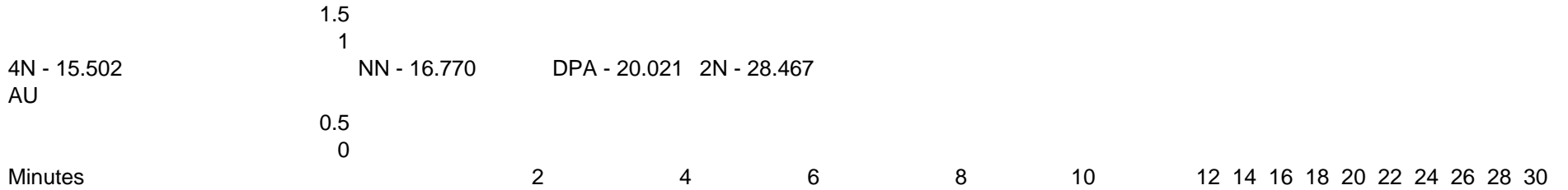
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070450				D533 / M6 propellant	
Date of analysis:				Date: 11 Jan 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.041	1072.9	1987.3	0.185
2,4-DNDPA	50.0	9.403	1132.4	2234.7	1.973
2,2' DNDPA	50.0	11.071	1654.7	75	0.000
2,4' DNDPA	50.0	11.863	1176.6	168.8	0.014
4NDPA	50.0	12.612	2267.7	0	0.000
2NDPA	50.0	14.156	6085.2	312.4	0.005
DPA	200.0	15.296	1602.1	0	0.000
N-NitrosoDPA	75.0	19.37	2345.7	815	0.000
				2.178	
				Avg. % Stabilizer for Lot 2.178	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.18 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070326				D533 / M6 propellant	
Date of analysis:				Date: 11 Jan 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.5000 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.041	1072.9	2154.3	0.201
2,4-DNDPA	50.0	9.403	1132.4	25773.1	2.276
2,2' DNDPA	50.0	11.071	1654.7	109.2	0.000
2,4' DNDPA	50.0	11.863	1176.6	154.7	0.013
4NDPA	50.0	12.612	2267.7	0	0.000
2NDPA	50.0	14.156	6085.2	386.2	0.006
DPA	200.0	15.296	1602.1	0	0.000
N-NitrosoDPA	75.0	19.37	2345.7	378.9	0.000
				2.496	
				Avg. % Stabilizer for Lot 2.496	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 2.50 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

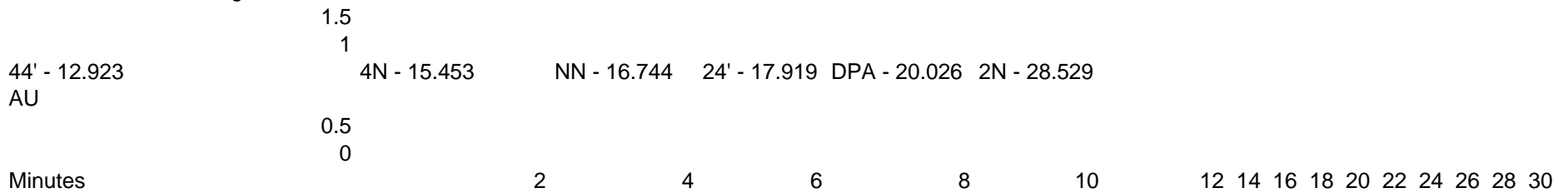
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83D070271				D533 / M6 propellant	
Date of analysis:				Date: 16 JULY 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		12.901	99.3	479 0.493
2,4-DNDPA	50.0		15.406	518	12.7 0.003
2,2' DNDPA	50.0		16.694	469	13.9 0.000
2,4' DNDPA	50.0		17.85	736	8.1 0.001
4NDPA	50.0		19.98	403.5	14.4 0.015
2NDPA	50.0		20.895	1144.6	12 0.001
DPA	200.0		22.438	2782.2	14.3 0.001
N-NitrosoDPA	75.0		28.461	15.32	6.2 0.000
				0.514	
				Avg. % Stabilizer for Lot 0.514	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.51 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

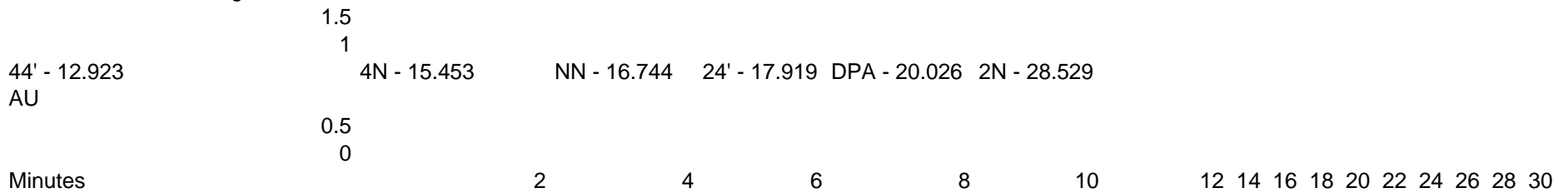
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

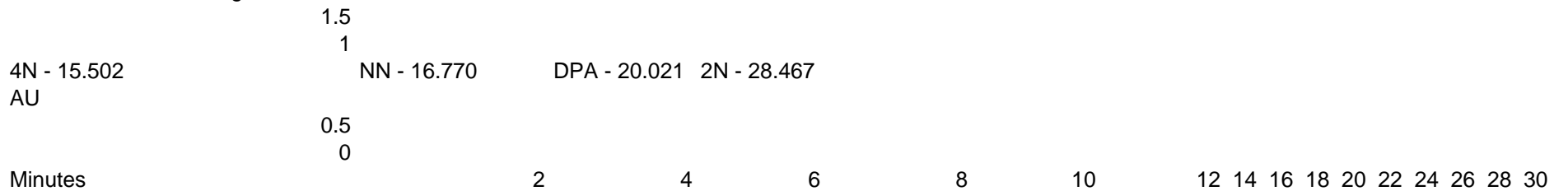
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070519				D533 / M6 propellant	
Date of analysis:				Date: 23 JULY 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.1	168.5	823.8	0.499
2,4-DNDPA	50.0	4.911	903.7	0	0.000
2,2' DNDPA	50.0	6.723	453.3	0	0.000
2,4' DNDPA	50.0	9.11	1007.8	6013.8	0.609
4NDPA	50.0	10.528	1377.8	0	0.000
2NDPA	50.0	11.725	2047	0	0.000
DPA	200.0	13.111	4516.2	265.9	0.006
N-NitrosoDPA	75.0	13.888	1377.888	0	0.000
				1.114	
				Avg. % Stabilizer for Lot 1.114	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.11 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070519				D533 / M6 propellant	
Date of analysis:				Date: 26 JUL 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.319	148.3	1293.2	0.872
2,4-DNDPA	50.0	5.163	912.3	0	0.000
2,2' DNDPA	50.0	6.698	512	13658.2	0.000
2,4' DNDPA	50.0	9.025	963.8	0	0.000
4NDPA	50.0	10.672	1269.3	0	0.000
2NDPA	50.0	11.432	2014	0	0.000
DPA	200.0	12.965	4132.5	321.6	0.031
N-NitrosoDPA	75.0	13.67	1333	0	0.000
Avg. % Stabilizer for Lot				0.903 0.903	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.90 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

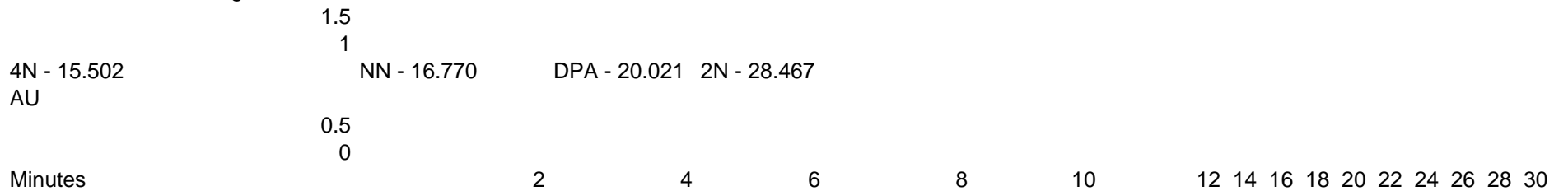
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070508				D533 / M6 propellant	
Date of analysis:				Date: 26 JUL 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.319	148.3	963	0.649
2,4-DNDPA	50.0	5.163	912.3	0	0.000
2,2' DNDPA	50.0	6.698	512	14239	0.000
2,4' DNDPA	50.0	9.025	963.8	0	0.000
4NDPA	50.0	10.672	1269.3	0	0.000
2NDPA	50.0	11.432	2014	0	0.000
DPA	200.0	12.965	4132.5	312	0.030
N-NitrosoDPA	75.0	13.67	1333	0	0.000
				0.680	
				Avg. % Stabilizer for Lot	
				0.680	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.68 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

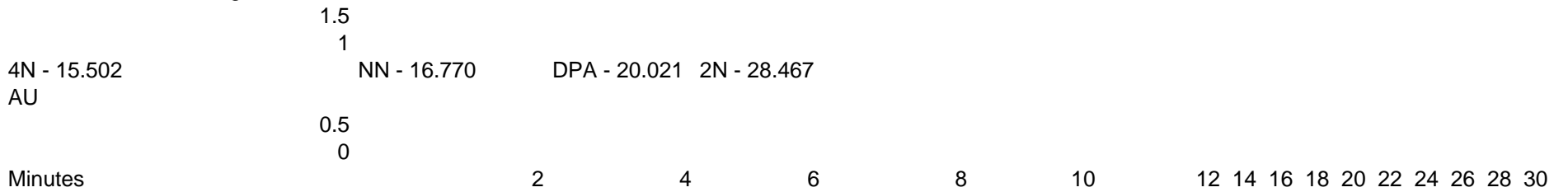
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070511				D533 / M6 propellant	
Date of analysis:				Date: 26 JUL 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.319	148.3	453	0.305
2,4-DNDPA	50.0	5.163	912.3	0	0.000
2,2' DNDPA	50.0	6.698	512	13620	0.000
2,4' DNDPA	50.0	9.025	963.8	0	0.000
4NDPA	50.0	10.672	1269.3	0	0.000
2NDPA	50.0	11.432	2014	0	0.000
DPA	200.0	12.965	4132.5	369	0.036
N-NitrosoDPA	75.0	13.67	1333	0	0.000
Avg. % Stabilizer for Lot				0.341	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.34 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

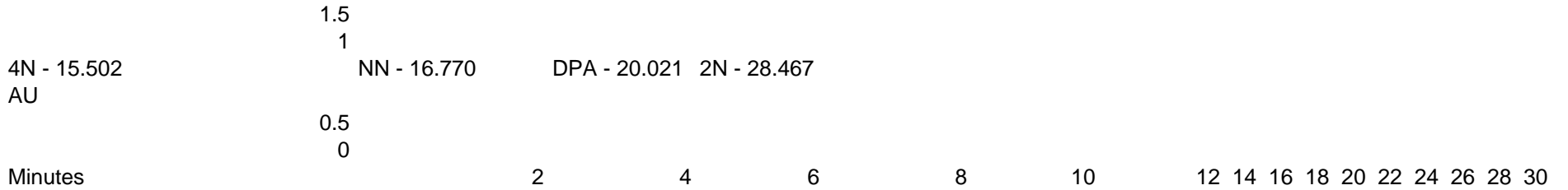
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

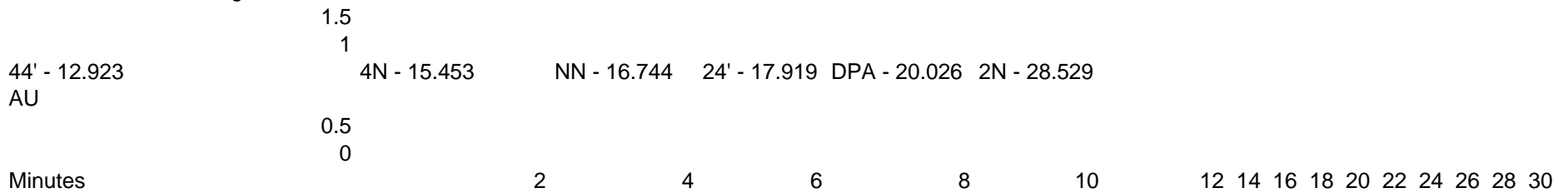
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

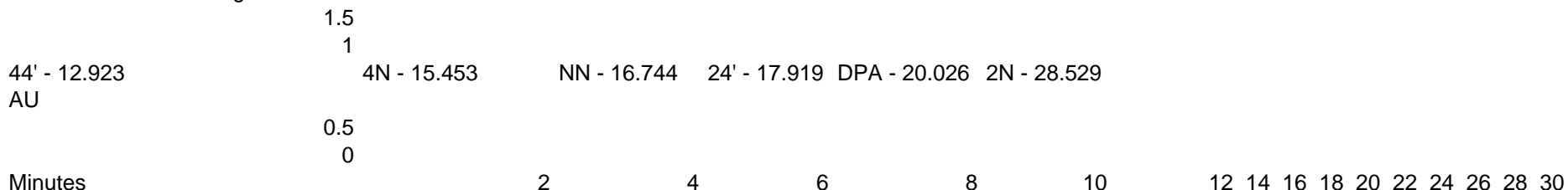
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

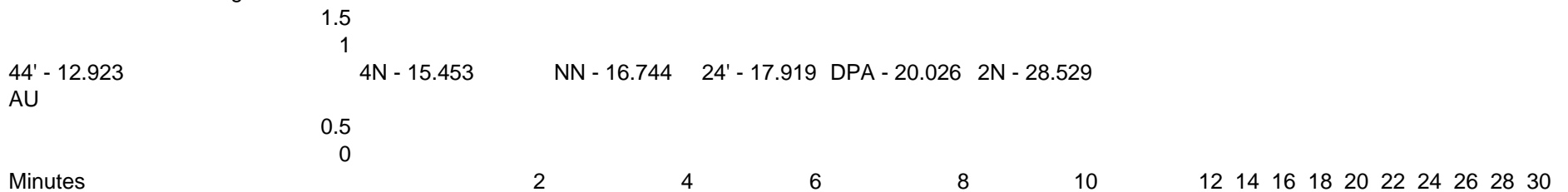
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88J070969 **D533 / M6 propellant**

Date of analysis: **Date: 30 JULY 2010**

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml Solvent ACN
---	---

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.785	114.5	1203.4	1.051
2,4-DNDPA	50.0	5.1	913.975	0	0.000
2,2' DNDPA	50.0	8	539.15	8131.9	1.508
2,4' DNDPA	50.0	10.44	1139.55	0	0.000
4NDPA	50.0	11.721	1494	0	0.000
2NDPA	50.0	12.94	2223.5	0	0.000
DPA	200.0	14.362	4965.5	405.8	0.033
N-NitrosoDPA	75.0	15.355	3100.4	0	0.000

Avg. % Stabilizer for Lot	2.592
2.592	

0.30% or more is Stability Code A
 0.20% - 0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst MARTY **Avg. Tot. Stabilizers** **2.59** % %

Analyst Signature Stable YES Unstable

Lab. Supervisor Signature **Comments**
CATEGORY: A

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

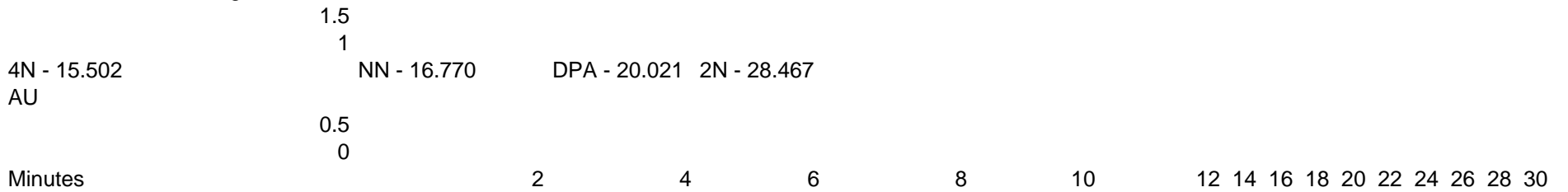
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

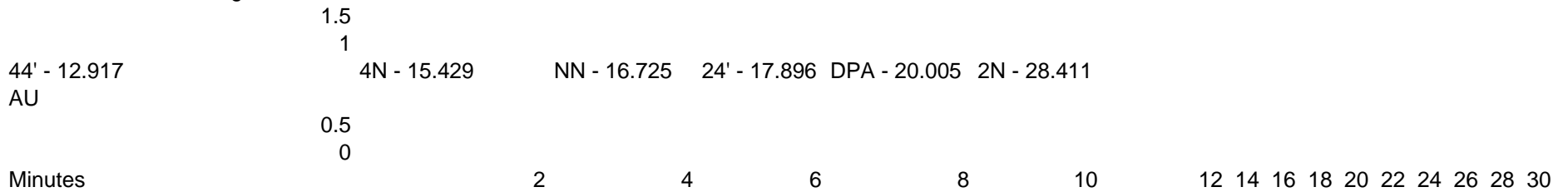
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

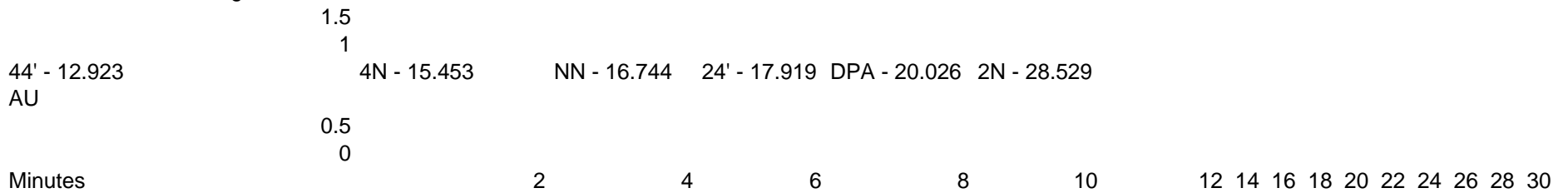
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83D				D533 / M6 propellant	
Date of analysis:				Date: 25 JUNE 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		12.901	500	2791 0.603
2,4-DNDPA	50.0		15.406	1394	127 0.010
2,2' DNDPA	50.0		16.694	721	0 0.000
2,4' DNDPA	50.0		17.85	734	17.8 0.003
4NDPA	50.0		19.98	1678	26.2 0.007
2NDPA	50.0		20.895	2873	163 0.006
DPA	200.0		22.438	1223	265 0.023
N-NitrosoDPA	75.0		28.461	1102	0 0.000
				0.652	
				Avg. % Stabilizer for Lot 0.652	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070219				D533 / M6 propellant	
Date of analysis:				Date: 10 JUN 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.644	12.4	385
2,4-DNDPA	50.0		3.435	704.6	15.8
2,2' DNDPA	50.0		5.232	151.8	195505
2,4' DNDPA	50.0		7.619	748	0
4NDPA	50.0		9.164	1189.1	59.4
2NDPA	50.0		10.428	2144	121.1
DPA	200.0		11.961	3991.7	705.2
N-NitrosoDPA	75.0		12.825	1018.7	0
					3.188
Avg. % Stabilizer for Lot					3.188
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 3.19 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070583				D533 / M6 propellant	
Date of analysis:				Date: 2 June 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.735	52	508	0.977
2,4-DNDPA	50.0	3.522	763	91	0.012
2,2' DNDPA	50.0	5.432	108	21830	0.000
2,4' DNDPA	50.0	7.988	809	339	0.042
4NDPA	50.0	9.512	1311	575	0.044
2NDPA	50.0	10.808	2337	960	0.041
DPA	200.0	12.288	4589	1718	0.150
N-NitrosoDPA	75.0	13.178	1102	449	0.000
1.265					
Avg. % Stabilizer for Lot					1.265
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.27 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

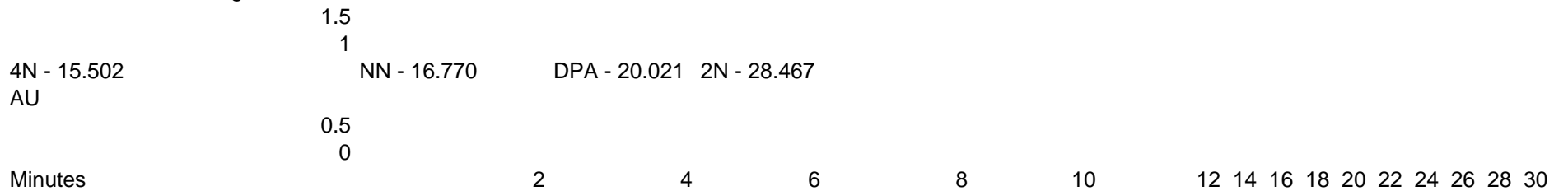
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND 84CG69842				D533 / M6 propellant	
Date of analysis:				Date: 13 MAY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.718	71	308	0.434
2,4-DNDPA	50.0	3.443	965	0	0.000
2,2' DNDPA	50.0	5.262	92	27177	0.000
2,4' DNDPA	50.0	7.687	1022	0	0.000
4NDPA	50.0	9.22	1640	162	0.010
2NDPA	50.0	10.483	2956	136	0.005
DPA	200.0	11.993	5527	273	0.020
N-NitrosoDPA	75.0	12.858	1407	0	0.000
Avg. % Stabilizer for Lot				0.468 0.468	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.47 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82M070221				D533 / M6 propellant	
Date of analysis:				Date: 6 MAY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	62	581	0.937
2,4-DNDPA	50.0	3.418	951	0	0.000
2,2' DNDPA	50.0	5.203	137	23081	0.000
2,4' DNDPA	50.0	7.572	1006	0	0.000
4NDPA	50.0	9.106	1579	49	0.003
2NDPA	50.0	10.347	2905	98	0.003
DPA	200.0	11.88	5183	612	0.047
N-NitrosoDPA	75.0	12.734	1382	0	0.000
				0.991	
				Avg. % Stabilizer for Lot 0.991	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.99 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

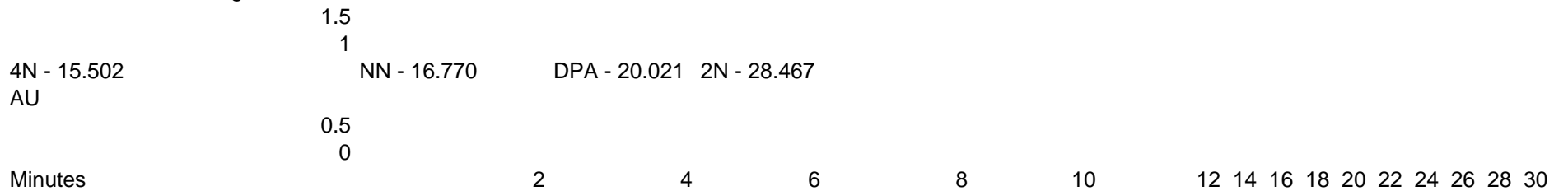
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85M070430				D533 / M6 propellant	
Date of analysis:				Date: 6 MAY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	62	316	0.510
2,4-DNDPA	50.0	3.418	951	0	0.000
2,2' DNDPA	50.0	5.203	137	21968	0.000
2,4' DNDPA	50.0	7.572	1006	0	0.000
4NDPA	50.0	9.106	1579	76	0.005
2NDPA	50.0	10.347	2905	107	0.004
DPA	200.0	11.88	5183	374	0.029
N-NitrosoDPA	75.0	12.734	1382	0	0.000
				0.547	
				Avg. % Stabilizer for Lot 0.547	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.55 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86E070616				D533 / M6 propellant	
Date of analysis:				Date: 19 NOV 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.068	135.8	654.4	0.482
2,4-DNDPA	50.0	5.182	717.3	0	0.000
2,2' DNDPA	50.0	7.635	736.3	13022.2	0.000
2,4' DNDPA	50.0	11.713	779	0	0.000
4NDPA	50.0	13.454	462.4	0	0.000
2NDPA	50.0	15.161	1164.1	0	0.000
DPA	200.0	16.583	4078.5	221.2	0.022
N-NitrosoDPA	75.0	18.033	1011.7	0	0.000
Avg. % Stabilizer for Lot				0.504	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.50 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

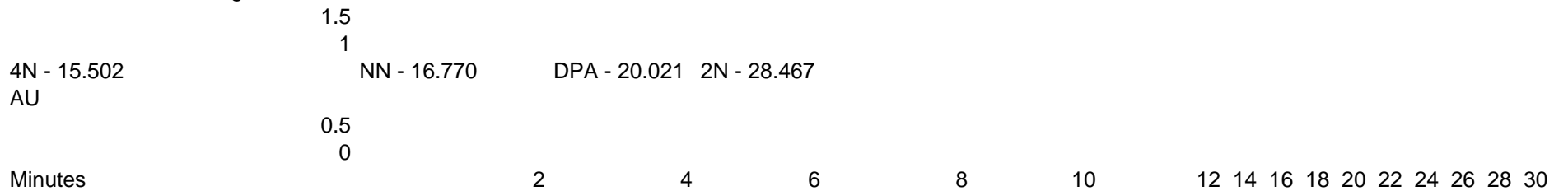
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070015Y				D533 / M6 propellant	
Date of analysis:				Date: 19 NOV 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.068	135.8	598.1 <u>0.440</u>
2,4-DNDPA	50.0		5.182	717.3	0 <u>0.000</u>
2,2' DNDPA	50.0		7.635	736.3	12998.3 <u>0.000</u>
2,4' DNDPA	50.0		11.713	779	0 <u>0.000</u>
4NDPA	50.0		13.454	462.4	0 <u>0.000</u>
2NDPA	50.0		15.161	1164.1	0 <u>0.000</u>
DPA	200.0		16.583	4078.5	237.4 <u>0.023</u>
N-NitrosoDPA	75.0		18.033	1011.7	0 <u>0.000</u>
				0.464	
				0.464	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.46 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070015				D533 / M6 propellant	
Date of analysis:				Date: 20 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Conc. 0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.024	281.6	2363.4	0.839
2,4-DNDPA	50.0	10.59	329	0	0.000
2,2' DNDPA	50.0	12.176	376.1	0	0.000
2,4' DNDPA	50.0	12.67	275.3	35.7	0.013
4NDPA	50.0	13.632	664.1	0	0.000
2NDPA	50.0	14.943	1788.8	34.8	0.002
DPA	200.0	16.114	286	0	0.000
N-NitrosoDPA	75.0	19.917	329.9	158.8	0.000
				0.854	
				Avg. % Stabilizer for Lot 0.854	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.85 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070025				D533 / M6 propellant	
Date of analysis:				Date: 20 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.024	281.6	50.9	0.018
2,4-DNDPA	50.0	10.59	329	2675.2	0.813
2,2' DNDPA	50.0	12.176	376.1	0	0.000
2,4' DNDPA	50.0	12.67	275.3	36.2	0.013
4NDPA	50.0	13.632	664.1	0	0.000
2NDPA	50.0	14.943	1788.8	39.7	0.002
DPA	200.0	16.114	286	34.1	0.048
N-NitrosoDPA	75.0	19.917	329.9	0	0.000
Avg. % Stabilizer for Lot				0.894 0.894	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.89 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

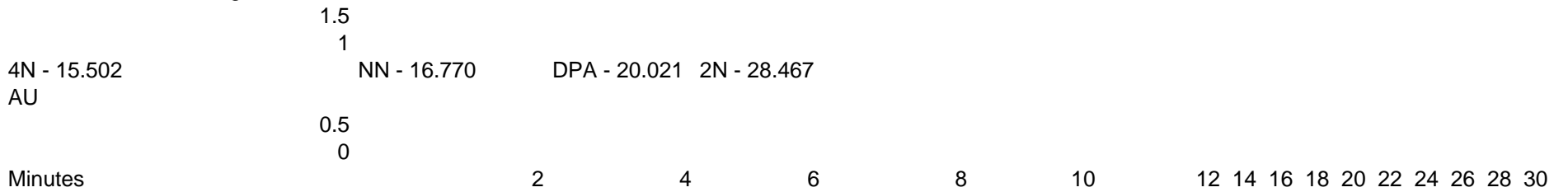
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81J070068				D533 / M6 propellant	
Date of analysis:				Date: 20 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.024	281.6	2456.9	0.872
2,4-DNDPA	50.0	10.59	329	0	0.000
2,2' DNDPA	50.0	12.176	376.1	0	0.000
2,4' DNDPA	50.0	12.67	275.3	47.2	0.017
4NDPA	50.0	13.632	664.1	0	0.000
2NDPA	50.0	14.943	1788.8	54.3	0.003
DPA	200.0	16.114	286	0	0.000
N-NitrosoDPA	75.0	19.917	329.9	67	0.000
				0.893	
				0.893	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.89 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070069				D533 / M6 propellant	
Date of analysis:				Date: 22 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.052	673.2	914.1	0.136
2,4-DNDPA	50.0	7.352	808.8	12152.8	1.503
2,2' DNDPA	50.0	11.009	637.5	0	0.000
2,4' DNDPA	50.0	12.65	733.8	41.1	0.006
4NDPA	50.0	14.161	1041.3	0	0.000
2NDPA	50.0	15.449	3210.2	61.2	0.002
DPA	200.0	16.702	874.8	0	0.000
N-NitrosoDPA	75.0	20.571	1290.6	202.8	0.000
				1.646	
Avg. % Stabilizer for Lot				1.646	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.65 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number:IND81J070067

D533 / M6 propellant

Date of analysis:

Date:22 OCT 2010

Other Information
M6 Propellant

Sample Data

#1 0.5000 g

Solvent

100 ml ACN

Standards (ERG-006)

Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Sample #	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.052	673.2		881.2	0.131
2,4-DNDPA	50.0	7.352	808.8		12549.1	1.552
2,2' DNDPA	50.0	11.009	637.5		0	0.000
2,4' DNDPA	50.0	12.65	733.8		100.4	0.014
4NDPA	50.0	14.161	1041.3		0	0.000
2NDPA	50.0	15.449	3210.2		379.2	0.012
DPA	200.0	16.702	874.8		0	0.000
N-NitrosoDPA	75.0	20.571	1290.6		171.9	0.000

Avg. % Stabilizer for Lot

1.708

1.708

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Kisha Dickerson

Avg. Tot. Stabilizers 1.71 % %

Analyst Signature

Stable YES Unstable

Lab. Supervisor Signature

Comments CATEGORY: A

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

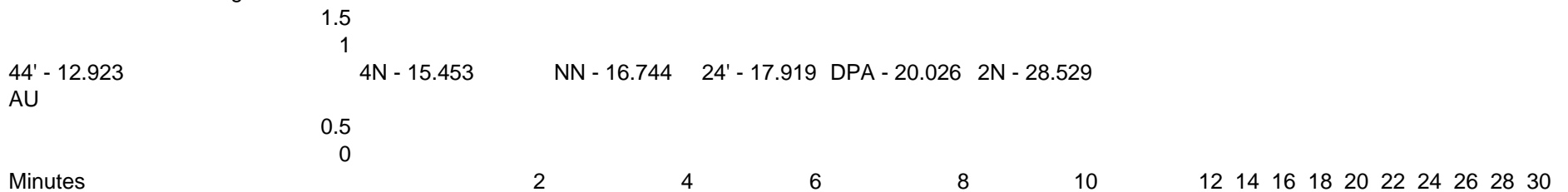
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81L070074				D533 / M6 propellant	
Date of analysis:				Date: 22 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.052	673.2	909	0.135
2,4-DNDPA	50.0	7.352	808.8	14042.3	1.736
2,2' DNDPA	50.0	11.009	637.5	0	0.000
2,4' DNDPA	50.0	12.65	733.8	92.2	0.013
4NDPA	50.0	14.161	1041.3	0	0.000
2NDPA	50.0	15.449	3210.2	326.2	0.010
DPA	200.0	16.702	874.8	0	0.000
N-NitrosoDPA	75.0	20.571	1290.6	117.3	0.000
				1.894	
				Avg. % Stabilizer for Lot	
				1.894	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.89 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070070				D533 / M6 propellant	
Date of analysis:				Date: 22 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.052	673.2	734.8	0.109
2,4-DNDPA	50.0	7.352	808.8	12964.2	1.603
2,2' DNDPA	50.0	11.009	637.5	0	0.000
2,4' DNDPA	50.0	12.65	733.8	54.2	0.007
4NDPA	50.0	14.161	1041.3	0	0.000
2NDPA	50.0	15.449	3210.2	60.3	0.002
DPA	200.0	16.702	874.8	0	0.000
N-NitrosoDPA	75.0	20.571	1290.6	213.4	0.000
				1.721	
				Avg. % Stabilizer for Lot 1.721	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.72 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

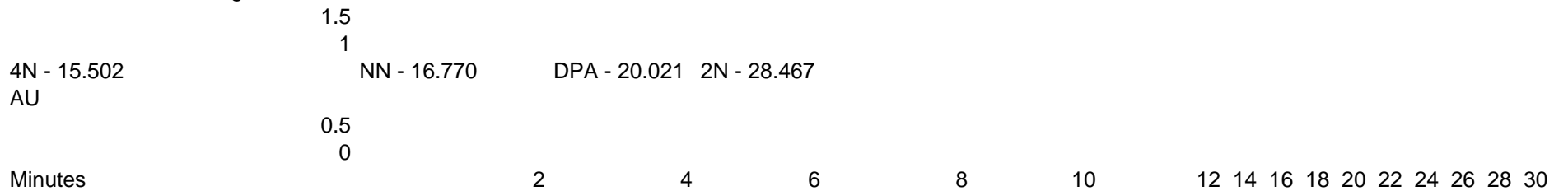
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070071				D533 / M6 propellant	
Date of analysis:				Date: 22 OCT 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.052	673.2	758.7	0.113
2,4-DNDPA	50.0	7.352	808.8	14663	1.813
2,2' DNDPA	50.0	11.009	637.5	0	0.000
2,4' DNDPA	50.0	12.65	733.8	112.7	0.015
4NDPA	50.0	14.161	1041.3	0	0.000
2NDPA	50.0	15.449	3210.2	87.3	0.003
DPA	200.0	16.702	874.8	0	0.000
N-NitrosoDPA	75.0	20.571	1290.6	111.7	0.000
				1.944	
Avg. % Stabilizer for Lot				1.944	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.94 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

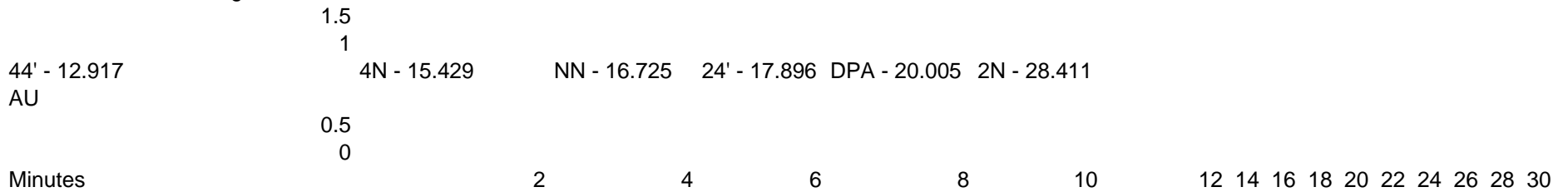
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

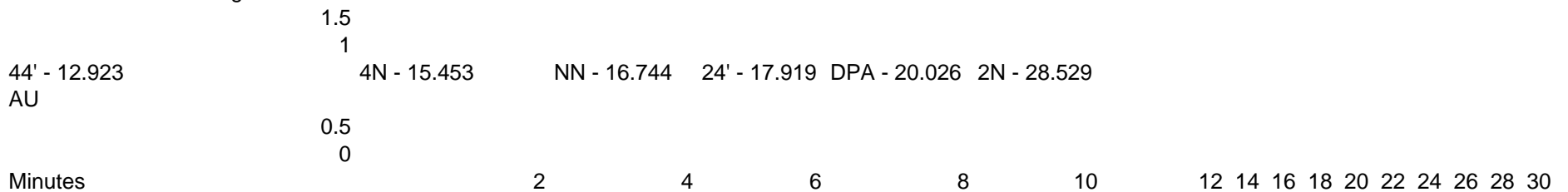
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070020				D533 / M6 propellant	
Date of analysis:				Date: 1 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.088	225.3	1721.1	0.764
2,4-DNDPA	50.0	5.017	1148.9	0	0.000
2,2' DNDPA	50.0	7.215	2676.3	15877.8	0.000
2,4' DNDPA	50.0	10.466	954.5	0	0.000
4NDPA	50.0	12.082	1305.7	0	0.000
2NDPA	50.0	13.572	1691.7	0	0.000
DPA	200.0	15.031	4409.7	553.4	0.050
N-NitrosoDPA	75.0	16.17	1249.6	0	0.000
Avg. % Stabilizer for Lot				0.814	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.81 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070019				D533 / M6 propellant	
Date of analysis:				Date: 1 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.088	225.3	2862.6	1.271
2,4-DNDPA	50.0	5.017	1148.9	0	0.000
2,2' DNDPA	50.0	7.215	2676.3	22579.2	0.000
2,4' DNDPA	50.0	10.466	954.5	0	0.000
4NDPA	50.0	12.082	1305.7	0	0.000
2NDPA	50.0	13.572	1691.7	0	0.000
DPA	200.0	15.031	4409.7	737.5	0.067
N-NitrosoDPA	75.0	16.17	1249.6	0	0.000
Avg. % Stabilizer for Lot				1.337	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.34 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

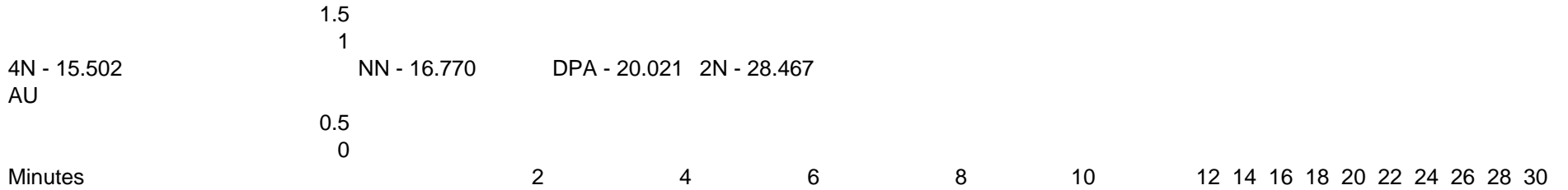
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070323				D533 / M6 propellant	
Date of analysis:				Date: 1 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.088	225.3	2348.3	1.042
2,4-DNDPA	50.0	5.017	1148.9	0	0.000
2,2' DNDPA	50.0	7.215	2676.3	19027.5	0.000
2,4' DNDPA	50.0	10.466	954.5	0	0.000
4NDPA	50.0	12.082	1305.7	0	0.000
2NDPA	50.0	13.572	1691.7	0	0.000
DPA	200.0	15.031	4409.7	864.9	0.078
N-NitrosoDPA	75.0	16.17	1249.6	0	0.000
				1.121	
Avg. % Stabilizer for Lot				1.121	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.12 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

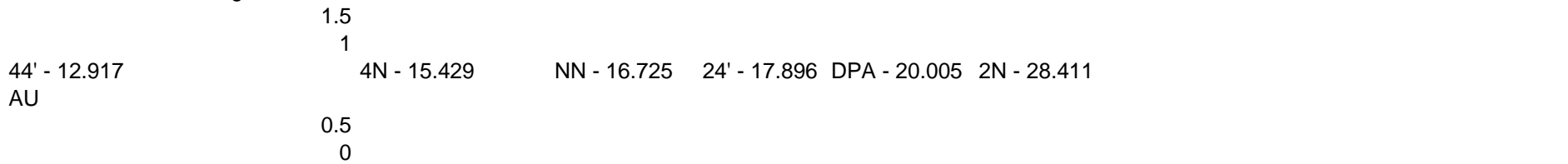
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.917	11923	709	0.015 micro gram
2	4N	15.429	119345	5819	0.07 micro gram
3	NN	16.725	43675	1982	0.061 micro gram
4	24'	17.896	25154	1151	0.014 micro gram
5	DPA	20.005	189585	7757	0.21 micro gram
6	22'	20.9			
7	24	22.4			
8	2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

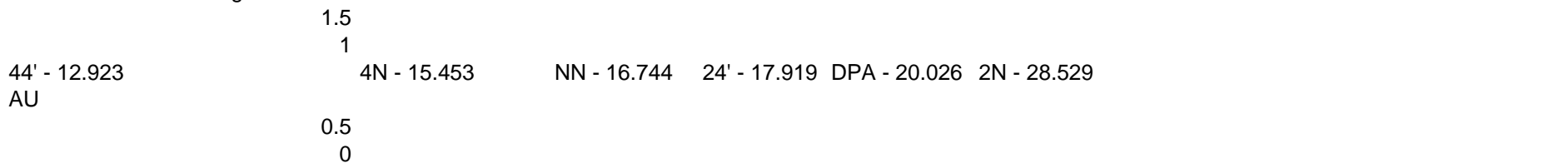
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.923	14984	870	0.018 micro gram
2	4N	15.453	121334	6049	0.072 micro gram
3	NN	16.744	54324	2521	0.075 micro gram
4	24'	17.919	33482	1475	0.018 micro gram
5	DPA	20.026	136705	5741	0.152 micro gram
6	22'	20.9			
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070274				D533 / M6 propellant	
Date of analysis:				Date: 1 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.088	225.3	2553.3	1.133
2,4-DNDPA	50.0	5.017	1148.9	0	0.000
2,2' DNDPA	50.0	7.215	2676.3	19646.7	0.000
2,4' DNDPA	50.0	10.466	954.5	0	0.000
4NDPA	50.0	12.082	1305.7	0	0.000
2NDPA	50.0	13.572	1691.7	0	0.000
DPA	200.0	15.031	4409.7	312.5	0.028
N-NitrosoDPA	75.0	16.17	1249.6	0	0.000
				1.162	
				1.162	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 1.16 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

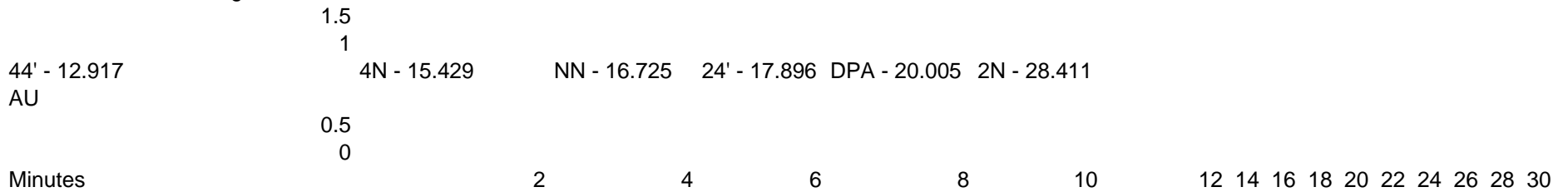
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

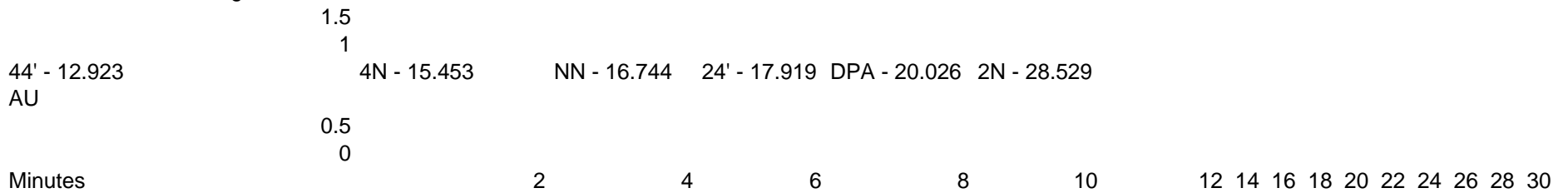
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070512				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1793.4	0.856
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	23366.2	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	384	0.050
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.906	
				0.906	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.91 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070449				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.107	51.4	365.6	0.711
2,4-DNDPA	50.0	4.906	694.7	0	0.000
2,2' DNDPA	50.0	6.974	684.6	4888	0.000
2,4' DNDPA	50.0	9.919	803.6	0	0.000
4NDPA	50.0	11.427	1125.2	0	0.000
2NDPA	50.0	12.8	1465.1	0	0.000
DPA	200.0	14.169	4507.4	287.2	0.025
N-NitrosoDPA	75.0	15.184	1019.2	0	0.000
				0.737	
				Avg. % Stabilizer for Lot 0.737	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.74 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83L070320				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1524.2	0.728
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	18357.1	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	416.3	0.054
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.782	
				0.782	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.78 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84F070436				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1609.2	0.768
2,4-DNDPA	50.0	5.036	550.1	492.9	0.090
2,2' DNDPA	50.0	7.219	2596.9	195621	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	730.3	0.095
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.953	
Avg. % Stabilizer for Lot				0.953	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.95 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87C070711				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1476	0.705
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	17893	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	412.9	0.054
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.758	
Avg. % Stabilizer for Lot				0.758	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.76 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

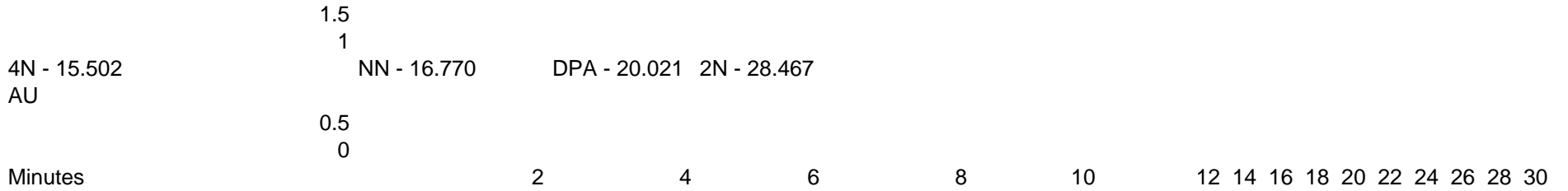
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85K070597				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1786.1	0.853
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	19932	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	379	0.049
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.902	
				0.902	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.90 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

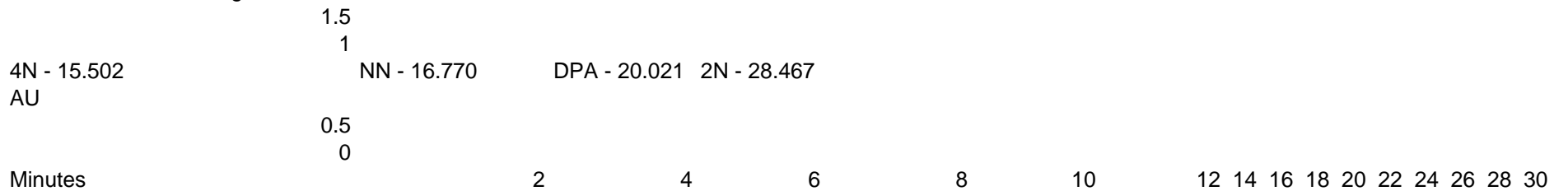
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81F070022				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	2.079	209.5	1593.5	0.761
2.4-DNDPA	50.0	5.036	550.1	0	0.000
2.2' DNDPA	50.0	7.219	2596.9	21336	0.000
2.4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	489	0.064
N-NitrosoDPA	75.0	16.154	698	0	0.000
				0.824	
				0.824	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.82 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85A070507				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	842.1	0.402
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	22387	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	397.3	0.052
N-NitrosoDPA	75.0	16.154	698	0	0.000
Avg. % Stabilizer for Lot				0.454	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.45 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

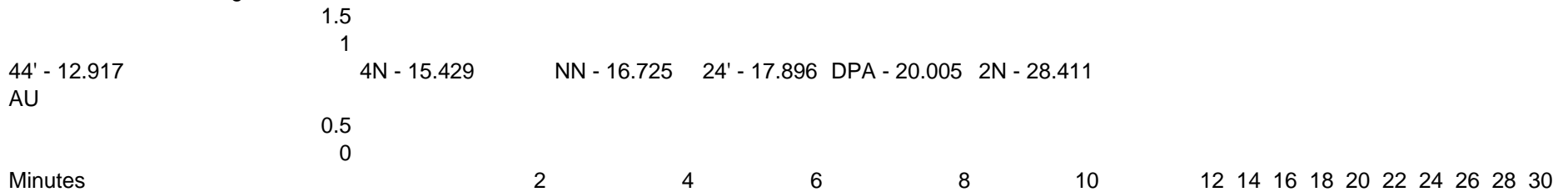
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

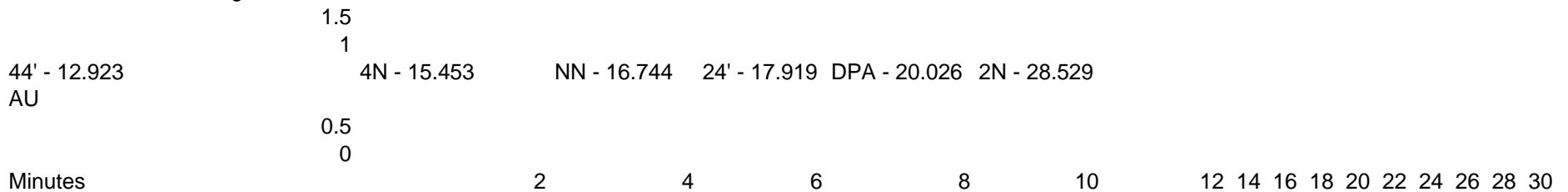
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070325				D533 / M6 propellant	
Date of analysis:				Date: 2 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.079	209.5	1239	0.591
2,4-DNDPA	50.0	5.036	550.1	0	0.000
2,2' DNDPA	50.0	7.219	2596.9	19660	0.000
2,4' DNDPA	50.0	10.449	616.9	0	0.000
4NDPA	50.0	12.053	848.3	0	0.000
2NDPA	50.0	13.556	1055.2	0	0.000
DPA	200.0	15.019	3069.7	684.4	0.089
N-NitrosoDPA	75.0	16.154	698	0	0.000
Avg. % Stabilizer for Lot				0.681	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.68 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
 Peak Results
 Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070009				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.113	241.3	1503.9	0.623
2,4-DNDPA	50.0	4.997	1505.8	0	0.000
2,2' DNDPA	50.0	7.178	3394.6	16988.6	0.000
2,4' DNDPA	50.0	10.355	947.6	0	0.000
4NDPA	50.0	11.977	1346.1	0	0.000
2NDPA	50.0	13.451	1788.2	0	0.000
DPA	200.0	14.881	5045.5	586	0.046
N-NitrosoDPA	75.0	16.02	1339.6	0	0.000
Avg. % Stabilizer for Lot				0.670 0.670	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.67 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84G070326				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.113	241.3	1761.8	0.730
2,4-DNDPA	50.0	4.997	1505.8	0	0.000
2,2' DNDPA	50.0	7.178	3394.6	20012.8	0.000
2,4' DNDPA	50.0	10.355	947.6	0	0.000
4NDPA	50.0	11.977	1346.1	0	0.000
2NDPA	50.0	13.451	1788.2	0	0.000
DPA	200.0	14.881	5045.5	727.1	0.058
N-NitrosoDPA	75.0	16.02	1339.6	0	0.000
				0.788	
Avg. % Stabilizer for Lot				0.788	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.79 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

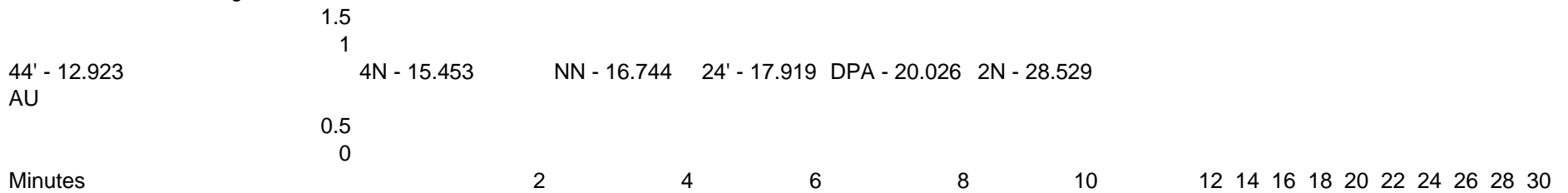
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

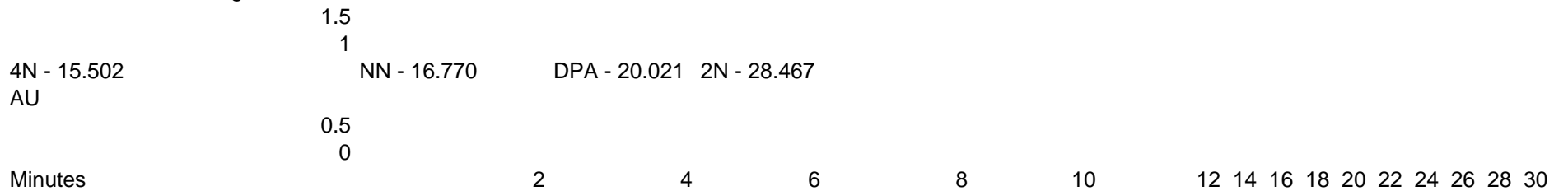
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81F070024				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.113	241.3	1694.4 <u>0.702</u>
2,4-DNDPA	50.0		4.997	1505.8	0 <u>0.000</u>
2,2' DNDPA	50.0		7.178	3394.6	18271.1 <u>0.000</u>
2,4' DNDPA	50.0		10.355	947.6	0 <u>0.000</u>
4NDPA	50.0		11.977	1346.1	0 <u>0.000</u>
2NDPA	50.0		13.451	1788.2	0 <u>0.000</u>
DPA	200.0		14.881	5045.5	744.9 <u>0.059</u>
N-NitrosoDPA	75.0		16.02	1339.6	0 <u>0.000</u>
				0.761	
				0.761	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.76 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070452				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.113	241.3	1426.5 <u>0.591</u>
2,4-DNDPA	50.0		4.997	1505.8	0 <u>0.000</u>
2,2' DNDPA	50.0		7.178	3394.6	15418.1 <u>0.000</u>
2,4' DNDPA	50.0		10.355	947.6	0 <u>0.000</u>
4NDPA	50.0		11.977	1346.1	0 <u>0.000</u>
2NDPA	50.0		13.451	1788.2	0 <u>0.000</u>
DPA	200.0		14.881	5045.5	771.6 <u>0.061</u>
N-NitrosoDPA	75.0		16.02	1339.6	0 <u>0.000</u>
				0.652	
				0.652	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070219				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.113	241.3	976 0.404
2,4-DNDPA	50.0		4.997	1505.8	0 0.000
2,2' DNDPA	50.0		7.178	3394.6	17453.2 0.000
2,4' DNDPA	50.0		10.355	947.6	0 0.000
4NDPA	50.0		11.977	1346.1	0 0.000
2NDPA	50.0		13.451	1788.2	0 0.000
DPA	200.0		14.881	5045.5	698.1 0.055
N-NitrosoDPA	75.0		16.02	1339.6	0 0.000
				0.460	
				0.460	
Avg. % Stabilizer for Lot					
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.46 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87A070676				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.113	241.3	1436.9 <u>0.595</u>
2,4-DNDPA	50.0		4.997	1505.8	0 <u>0.000</u>
2,2' DNDPA	50.0		7.178	3394.6	15896 <u>0.000</u>
2,4' DNDPA	50.0		10.355	947.6	0 <u>0.000</u>
4NDPA	50.0		11.977	1346.1	0 <u>0.000</u>
2NDPA	50.0		13.451	1788.2	0 <u>0.000</u>
DPA	200.0		14.881	5045.5	789.8 <u>0.063</u>
N-NitrosoDPA	75.0		16.02	1339.6	0 <u>0.000</u>
				0.658	
				0.658	
Avg. % Stabilizer for Lot					
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.66 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

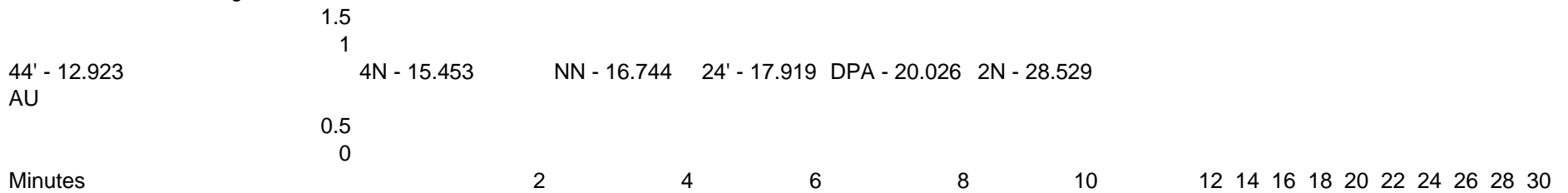
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84G070321				D533 / M6 propellant	
Date of analysis:				Date: 20 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		2.113	241.3	1753 0.726
2.4-DNDPA	50.0		4.997	1505.8	0 0.000
2.2' DNDPA	50.0		7.178	3394.6	14596.3 0.000
2.4' DNDPA	50.0		10.355	947.6	0 0.000
4NDPA	50.0		11.977	1346.1	0 0.000
2NDPA	50.0		13.451	1788.2	0 0.000
DPA	200.0		14.881	5045.5	452.9 0.036
N-NitrosoDPA	75.0		16.02	1339.6	0 0.000
Avg. % Stabilizer for Lot				0.762 0.762	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.76 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84C070331				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.168	128.5	113.7
2,4-DNDPA	50.0		5.033	432	217.6
2,2' DNDPA	50.0		7.206	1480.6	820.7
2,4' DNDPA	50.0		10.409	485.4	222.7
4NDPA	50.0		12.024	1113.3	522
2NDPA	50.0		13.489	784	398.3
DPA	200.0		14.97	2121.4	1130.5
N-NitrosoDPA	75.0		16.167	463.9	299.3
				0.495	
				0.495	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.50 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070017				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.168	128.5	127.3 0.099
2,4-DNDPA	50.0		5.033	432	206 0.048
2,2' DNDPA	50.0		7.206	1480.6	1458 0.000
2,4' DNDPA	50.0		10.409	485.4	246.7 0.051
4NDPA	50.0		12.024	1113.3	499 0.045
2NDPA	50.0		13.489	784	384 0.049
DPA	200.0		14.97	2121.4	1435.9 0.271
N-NitrosoDPA	75.0		16.167	463.9	278.8 0.000
				0.562	
				0.562	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.56 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070454				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.5000 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		2.168	128.5	374.5 0.291
2,4-DNDPA	50.0		5.033	432	212.9 0.049
2,2' DNDPA	50.0		7.206	1480.6	458.3 0.000
2,4' DNDPA	50.0		10.409	485.4	213.4 0.044
4NDPA	50.0		12.024	1113.3	716.2 0.064
2NDPA	50.0		13.489	784	698 0.089
DPA	200.0		14.97	2121.4	935.4 0.176
N-NitrosoDPA	75.0		16.167	463.9	274.3 0.000
				0.714	
				Avg. % Stabilizer for Lot 0.714	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.71 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070061

D533 / M6 propellant

Date of analysis:

Date: 27 SEP 2010

Other Information
M6 Propellant

Sample Data

#1

0.5000 g

Solvent

100 ml ACN

Standards (ERG-006)

Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	2.177	103.2	831.7	0.806
2.4-DNDPA	50.0	4.914	595.6	0	0.000
2.2' DNDPA	50.0	6.942	49	12241.7	0.000
2.4' DNDPA	50.0	9.953	718.7	0	0.000
4NDPA	50.0	11.463	978	0	0.000
2NDPA	50.0	12.861	1294	0	0.000
DPA	200.0	14.191	3523.7	586	0.067
N-NitrosoDPA	75.0	15.226	868.9	0	0.000

Sample #

Avg. % Stabilizer for Lot

0.872

0.872

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Kisha Dickerson

Avg. Tot. Stabilizers **0.87** % %

Analyst Signature

Stable YES Unstable

Lab. Supervisor Signature

Comments CATEGORY: A

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070454				D533 / M6 propellant	
Date of analysis:				Date: 27 SEP 2010	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.5000 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.177	103.2	912	0.884
2,4-DNDPA	50.0	4.914	595.6	0	0.000
2,2' DNDPA	50.0	6.942	49	12950.6	0.000
2,4' DNDPA	50.0	9.953	718.7	0	0.000
4NDPA	50.0	11.463	978	0	0.000
2NDPA	50.0	12.861	1294	0	0.000
DPA	200.0	14.191	3523.7	547.5	0.062
N-NitrosoDPA	75.0	15.226	868.9	0	0.000
				0.946	
Avg. % Stabilizer for Lot				0.946	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.95 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070174				D533 / M6 propellant	
Date of analysis:				Date: 12 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.882	28.4	139.1 0.490
2,4-DNDPA	50.0		3.244	978.3	0 0.000
2,2' DNDPA	50.0		4.803	3426.7	22844 0.000
2,4' DNDPA	50.0		6.74	1061.1	374.5 0.035
4NDPA	50.0		8.012	1726.9	50.8 0.003
2NDPA	50.0		9.091	3662.4	106.4 0.003
DPA	200.0		10.394	6185.4	821.8 0.053
N-NitrosoDPA	75.0		10.968	1530.7	0 0.000
				0.584	
				Avg. % Stabilizer for Lot 0.584	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.58 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

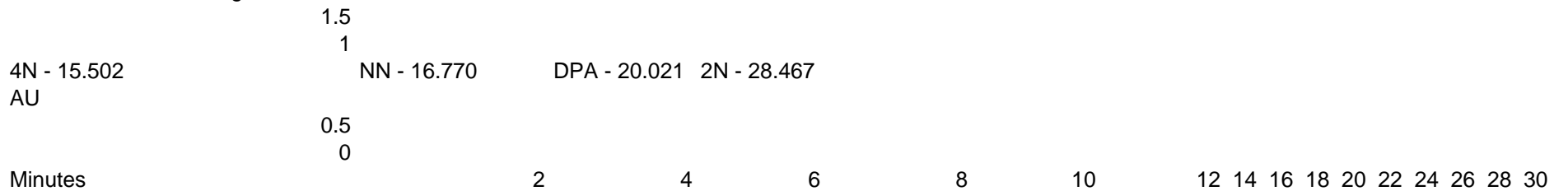
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83M070322				D533 / M6 propellant	
Date of analysis:				Date: 12 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.882	28.4	566.5
2,4-DNDPA	50.0		3.244	978.3	0
2,2' DNDPA	50.0		4.803	3426.7	22442
2,4' DNDPA	50.0		6.74	1061.1	499.4
4NDPA	50.0		8.012	1726.9	66.2
2NDPA	50.0		9.091	3662.4	113.4
DPA	200.0		10.394	6185.4	978.3
N-NitrosoDPA	75.0		10.968	1530.7	0
				2.112	
				Avg. % Stabilizer for Lot	
				2.112	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Kisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					2.11 %
Lab. Supervisor Signature					Stable YES Unstable
					Comments
					CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070433				D533 / M6 propellant	
Date of analysis:				Date: 12 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.882	28.4	400.4
2,4-DNDPA	50.0		3.244	978.3	0
2,2' DNDPA	50.0		4.803	3426.7	21720
2,4' DNDPA	50.0		6.74	1061.1	0
4NDPA	50.0		8.012	1726.9	45.6
2NDPA	50.0		9.091	3662.4	95.2
DPA	200.0		10.394	6185.4	762.8
N-NitrosoDPA	75.0		10.968	1530.7	0
				1.464	
				Avg. % Stabilizer for Lot 1.464	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson				Avg. Tot. Stabilizers 1.46 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

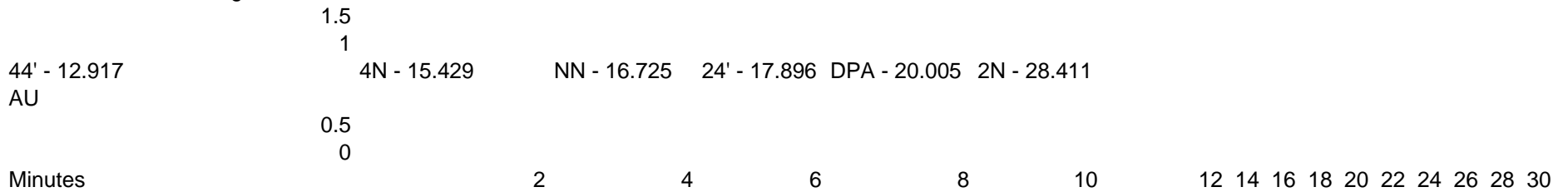
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

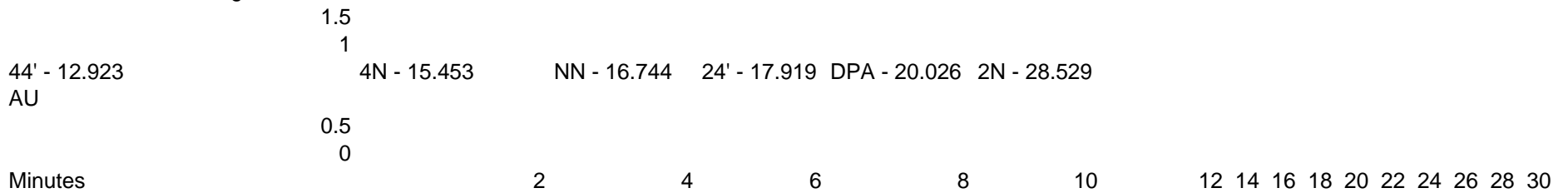
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

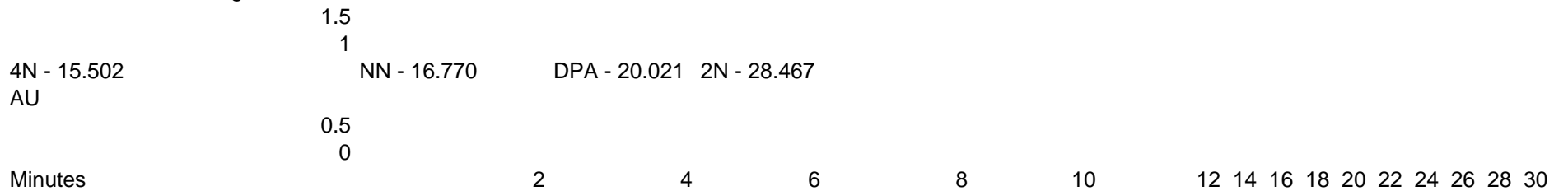
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89F071044				D533 / M6 propellant	
Date of analysis:				Date: 12 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.882	28.4	172.9
2,4-DNDPA	50.0		3.244	978.3	24.4
2,2' DNDPA	50.0		4.803	3426.7	17679
2,4' DNDPA	50.0		6.74	1061.1	77.4
4NDPA	50.0		8.012	1726.9	178.3
2NDPA	50.0		9.091	3662.4	851.4
DPA	200.0		10.394	6185.4	0
N-NitrosoDPA	75.0		10.968	1530.7	0
0.652					
Avg. % Stabilizer for Lot					0.652
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070176				D533 / M6 propellant	
Date of analysis:				Date: 19 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.881	79.9	291.9
2,4-DNDPA	50.0		2.988	1089.9	0
2,2' DNDPA	50.0		4.35	3753.9	23396
2,4' DNDPA	50.0		7.518	3395.2	60
4NDPA	50.0		8.672	6319.8	118.6
2NDPA	50.0		9.112	1749.2	727.8
DPA	200.0		11.998	2393.2	221.3
N-NitrosoDPA	75.0		19.769	1003	0
Avg. % Stabilizer for Lot					0.448 0.448
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.45 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

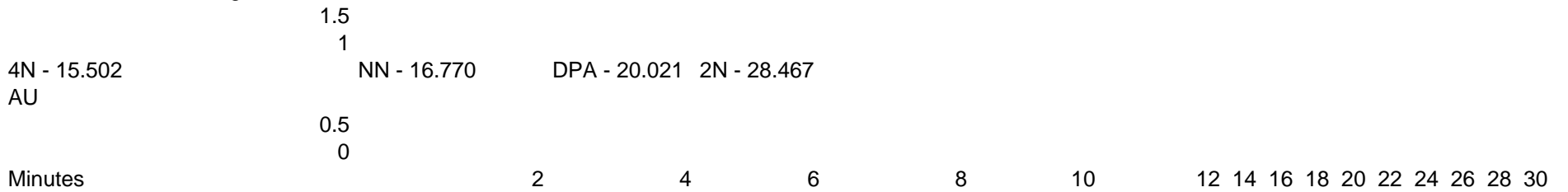
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82C070108				D533 / M6 propellant	
Date of analysis:				Date: 25 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	59.3	220.9	0.373
2,4-DNDPA	50.0	3.177	1073.7	19.9	0.002
2,2' DNDPA	50.0	4.718	4207.2	23285	0.000
2,4' DNDPA	50.0	6.48	1264.3	43.1	0.003
4NDPA	50.0	7.205	431.2	165.9	0.038
2NDPA	50.0	8.547	3575.4	212.2	0.006
DPA	200.0	9.424	1690.3	378.4	0.090
N-NitrosoDPA	75.0	12.582	2461.2	0	0.000
				0.512	
				0.512	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.51 % %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

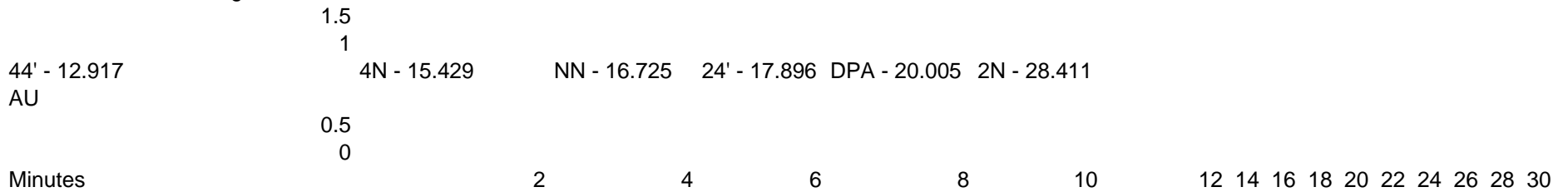
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

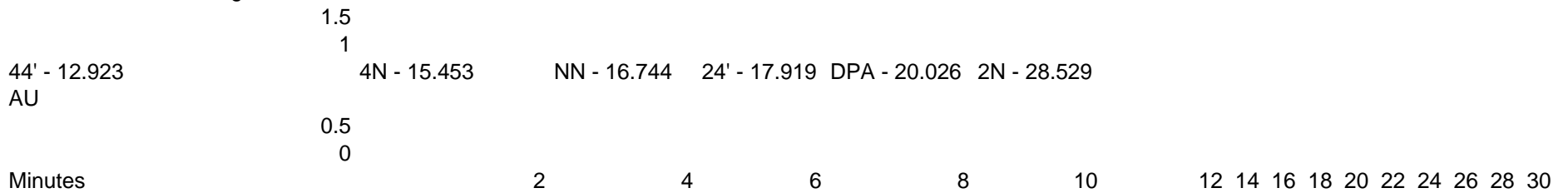
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82F070162				D533 / M6 propellant	
Date of analysis:				Date: 25 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	59.3	226.2	0.381
2,4-DNDPA	50.0	3.177	1073.7	0	0.000
2,2' DNDPA	50.0	4.718	4207.2	22805	0.000
2,4' DNDPA	50.0	6.48	1264.3	0	0.000
4NDPA	50.0	7.205	431.2	59.7	0.014
2NDPA	50.0	8.547	3575.4	117.2	0.003
DPA	200.0	9.424	1690.3	882.4	0.209
N-NitrosoDPA	75.0	12.582	2461.2	0	0.000
				0.607	
				0.607	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.61 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84D070334				D533 / M6 propellant	
Date of analysis:				Date: 25 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	59.3	288.1	0.486
2,4-DNDPA	50.0	3.177	1073.7	0	0.000
2,2' DNDPA	50.0	4.718	4207.2	22740	0.000
2,4' DNDPA	50.0	6.48	1264.3	0	0.000
4NDPA	50.0	7.205	431.2	0	0.000
2NDPA	50.0	8.547	3575.4	278.9	0.008
DPA	200.0	9.424	1690.3	0	0.000
N-NitrosoDPA	75.0	12.582	2461.2	154.2	0.000
				0.494	
				0.494	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.49 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070453				D533 / M6 propellant	
Date of analysis:				Date: 25 APR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	59.3	141.4	0.238
2,4-DNDPA	50.0	3.177	1073.7	0	0.000
2,2' DNDPA	50.0	4.718	4207.2	22459	0.000
2,4' DNDPA	50.0	6.48	1264.3	0	0.000
4NDPA	50.0	7.205	431.2	79.7	0.018
2NDPA	50.0	8.547	3575.4	124.9	0.003
DPA	200.0	9.424	1690.3	410.2	0.097
N-NitrosoDPA	75.0	12.582	2461.2		0.000
				0.357	
				0.357	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

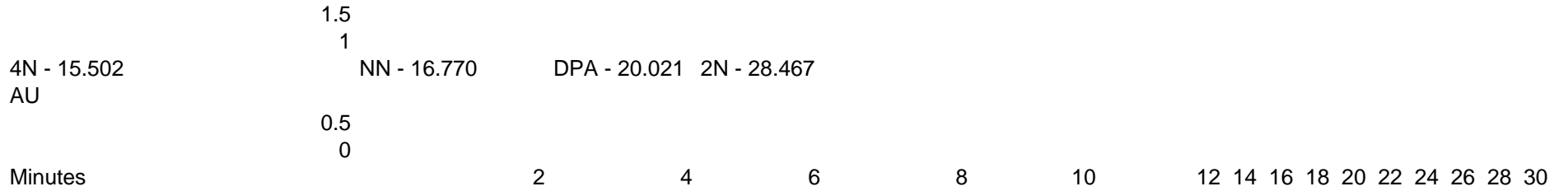
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

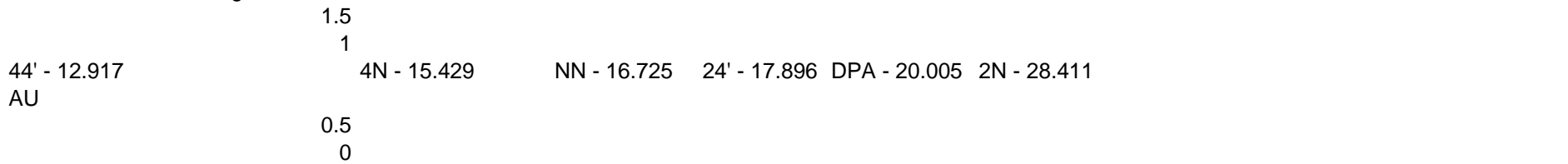
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

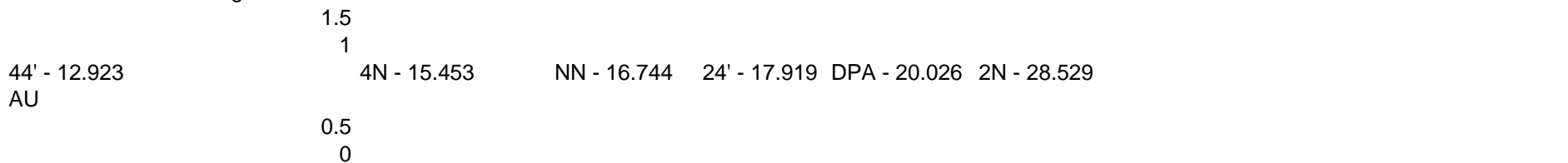
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070281				D533 / M6 propellant	
Date of analysis:				Date: 4 April 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.881	40.9	93.7	0.229
2,4-DNDPA	50.0	3.279	928	0	0.000
2,2' DNDPA	50.0	4.66	26957	26191	0.000
2,4' DNDPA	50.0	6.571	992.8	0	0.000
4NDPA	50.0	7.798	1662.7	158.3	0.010
2NDPA	50.0	8.806	2938.9	98.9	0.003
DPA	200.0	10.221	5774.5	1004.4	0.070
N-NitrosoDPA	75.0	10.895	1475.9	0	0.000
				0.312	
				0.312	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.31 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

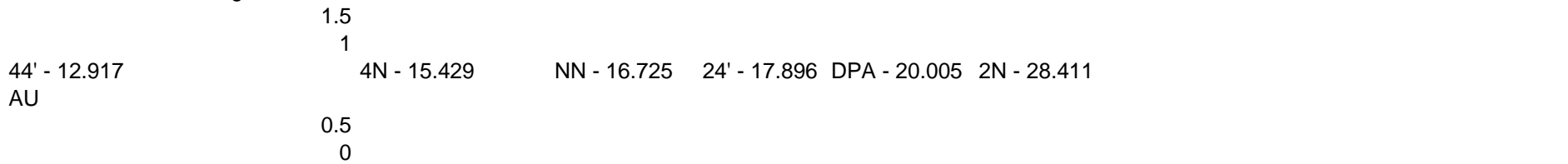
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

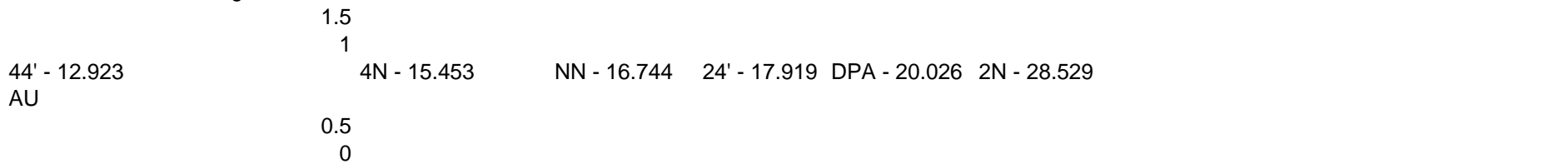
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070445				D533 / M6 propellant	
Date of analysis:				Date: 4 April 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.873	71.8	316.9	0.441
2,4-DNDPA	50.0	3.33	908.8	15.9	0.002
2,2' DNDPA	50.0	5.013	1248.4	32819	0.000
2,4' DNDPA	50.0	6.99	970.7	0	0.000
4NDPA	50.0	8.409	1568.9	110.2	0.007
2NDPA	50.0	9.497	2825.4	202.6	0.007
DPA	200.0	10.951	5493.4	1354.5	0.099
N-NitrosoDPA	75.0	11.62	1375.4	0	0.000
				0.556	
				0.556	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.56 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

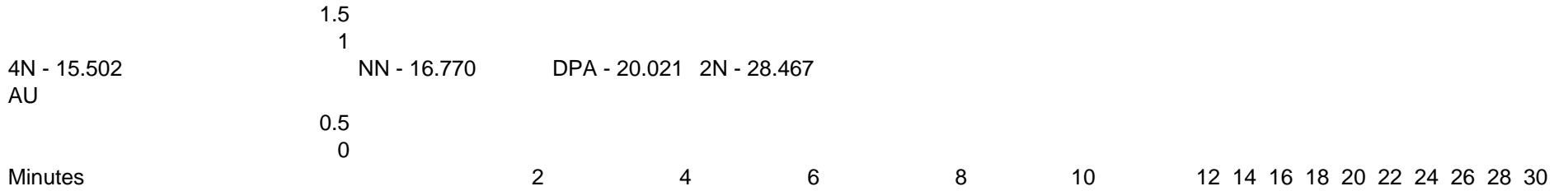
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85G070592				D533 / M6 propellant	
Date of analysis:				Date: 4 April 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.887	19.1	47.1	0.247
2,4-DNDPA	50.0	3.143	941	0	0.000
2,2' DNDPA	50.0	4.776	2735	21753	0.000
2,4' DNDPA	50.0	5.622	1028.5	19.3	0.002
4NDPA	50.0	6.926	1648.3	0	0.000
2NDPA	50.0	7.933	2982.3	44.5	0.001
DPA	200.0	9.233	5791.6	1476.9	0.102
N-NitrosoDPA	75.0	9.586	1436.6	0	0.000
				0.352	
				0.352	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.35 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

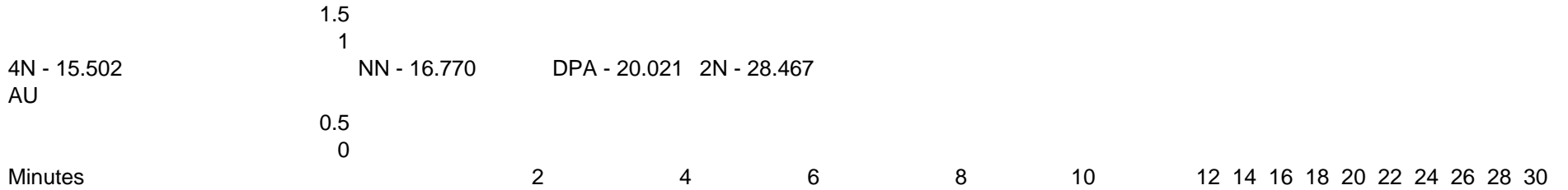
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82KY70175				D533 / M6 propellant	
Date of analysis:				Date: 15 AUG 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.632	30.4	268.1 0.882
2,4-DNDPA	50.0		3.486	989.6	31.1 0.003
2,2' DNDPA	50.0		5.334	1082	23256 0.000
2,4' DNDPA	50.0		7.805	1069.6	0 0.000
4NDPA	50.0		9.35	1646.5	172 0.010
2NDPA	50.0		10.653	3039.9	180.3 0.006
DPA	200.0		12.156	5602.1	257.6 0.018
N-NitrosoDPA	75.0		13,045	1424.8	0 0.000
				0.920	
				Avg. % Stabilizer for Lot 0.920	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.92 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86AY70610				D533 / M6 propellant	
Date of analysis:				Date: 15 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.681	176.8	494.1 0.279
2,4-DNDPA	50.0	50.0	3.455	1216.3	0 0.000
2,2' DNDPA	50.0	50.0	5.278	694.9	23399 0.000
2,4' DNDPA	50.0	50.0	7.715	1320.9	0 0.000
4NDPA	50.0	50.0	9.273	2124.7	55.7 0.003
2NDPA	50.0	50.0	10.566	3817.9	88.4 0.002
DPA	200.0	200.0	12.084	7464.4	580.9 0.031
N-NitrosoDPA	75.0	75.0	12.983	1814.7	0 0.000
Avg. % Stabilizer for Lot				0.316 0.316	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.32 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85CY70512				D533 / M6 propellant	
Date of analysis:				Date: 16 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent ACN
			0.50 g		100 ml
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.7	0.609	177.2	0.350
2,4-DNDPA	50.0	988.3	3.465	0	0.000
2,2' DNDPA	50.0	783.3	5.288	22579	0.000
2,4' DNDPA	50.0	1057.6	7.714	0	0.000
4NDPA	50.0	1826.7	9.268	135.6	0.007
2NDPA	50.0	1113	10.371	111.7	0.010
DPA	200.0	5390	12.088	162.7	0.012
N-NitrosoDPA	75.0	1451.7	12.974	0	0.000
Avg. % Stabilizer for Lot					0.379 0.379
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.38 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87BY70679				D533 / M6 propellant	
Date of analysis:				Date: 16 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.609	50.7	209.2
2,4-DNDPA	50.0	50.0	3.465	988.3	0
2,2' DNDPA	50.0	50.0	5.288	783.3	21629
2,4' DNDPA	50.0	50.0	7.714	1057.6	0
4NDPA	50.0	50.0	9.268	1826.7	101.5
2NDPA	50.0	50.0	10.371	1113	68.5
DPA	200.0	200.0	12.088	5390	270.6
N-NitrosoDPA	75.0	75.0	12.974	1451.7	0
Avg. % Stabilizer for Lot					0.445
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.44 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87EY70713				D533 / M6 propellant	
Date of analysis:				Date: 16 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.0	0.609	50.7	134.4
2,4-DNDPA	50.0	5.0	3.465	988.3	27.1
2,2' DNDPA	50.0	5.0	5.288	783.3	22422
2,4' DNDPA	50.0	5.0	7.714	1057.6	25.7
4NDPA	50.0	5.0	9.268	1826.7	185.4
2NDPA	50.0	5.0	10.371	1113	220.1
DPA	200.0	5.0	12.088	5390	241.1
N-NitrosoDPA	75.0	5.0	12.974	1451.7	0
Avg. % Stabilizer for Lot					0.318 0.318
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.32 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

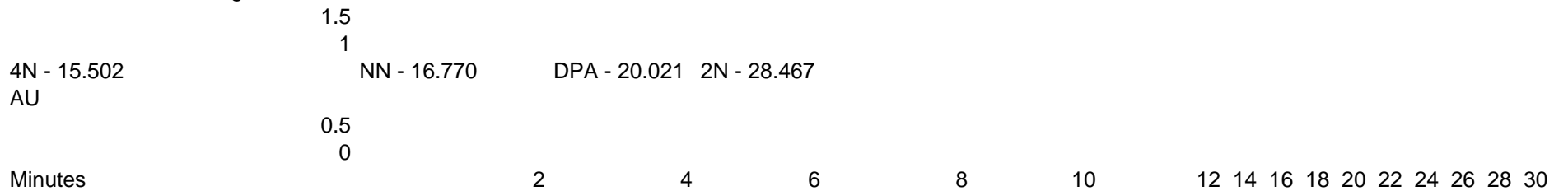
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82BY70106				D533 / M6 propellant	
Date of analysis:				Date: 18 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.662	30.8	156	0.506
2,4-DNDPA	50.0	3.456	1073.3	0	0.000
2,2' DNDPA	50.0	5.272	842.1	20690	0.000
2,4' DNDPA	50.0	7.689	1168.8	0	0.000
4NDPA	50.0	9.242	1874.9	124.2	0.007
2NDPA	50.0	10.533	3382.8	230.5	0.007
DPA	200.0	12.047	6433.4	371.5	0.023
N-NitrosoDPA	75.0	12.936	1592.5	0	0.000
				0.543	
				Avg. % Stabilizer for Lot 0.543	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.54 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83LY70320				D533 / M6 propellant	
Date of analysis:				Date: 18 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.662	30.8	234.6	0.762
2,4-DNDPA	50.0	3.456	1073.3	0	0.000
2,2' DNDPA	50.0	5.272	842.1	22015	0.000
2,4' DNDPA	50.0	7.689	1168.8	0	0.000
4NDPA	50.0	9.242	1874.9	111.9	0.006
2NDPA	50.0	10.533	3382.8	158.3	0.005
DPA	200.0	12.047	6433.4	176.6	0.011
N-NitrosoDPA	75.0	12.936	1592.5	0	0.000
				0.783	
				Avg. % Stabilizer for Lot 0.783	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.78 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

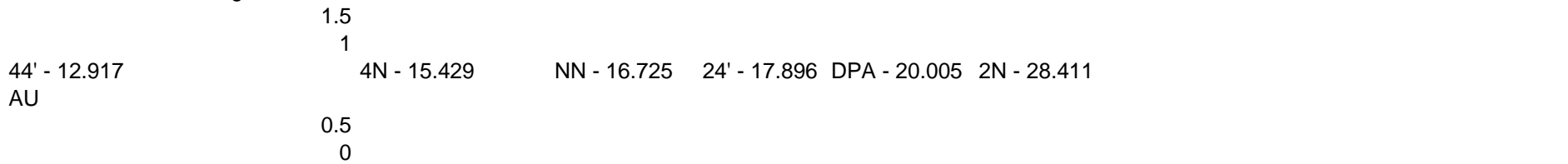
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

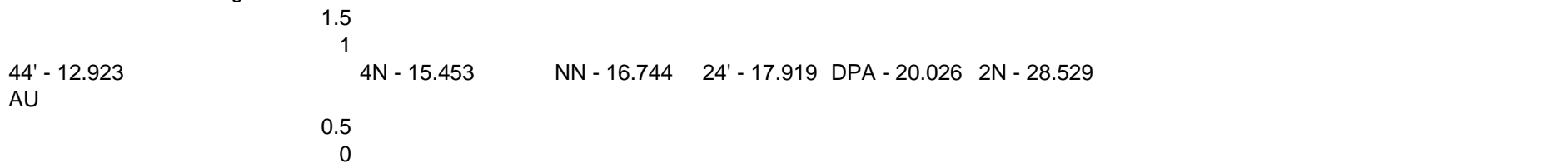
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83LY70321				D533 / M6 propellant	
Date of analysis:				Date: 18 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.662	30.8	264.1	0.857
2,4-DNDPA	50.0	3.456	1073.3	0	0.000
2,2' DNDPA	50.0	5.272	842.1	21979	0.000
2,4' DNDPA	50.0	7.689	1168.8	0	0.000
4NDPA	50.0	9.242	1874.9	80.7	0.004
2NDPA	50.0	10.533	3382.8	104.1	0.003
DPA	200.0	12.047	6433.4	470.9	0.029
N-NitrosoDPA	75.0	12.936	1592.5	0	0.000
Avg. % Stabilizer for Lot					0.894 0.894
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.89 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85BY70507				D533 / M6 propellant	
Date of analysis:				Date: 18 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.662	30.8	147.8	0.480
2,4-DNDPA	50.0	3.456	1073.3	0	0.000
2,2' DNDPA	50.0	5.272	842.1	24526	0.000
2,4' DNDPA	50.0	7.689	1168.8	0	0.000
4NDPA	50.0	9.242	1874.9	163	0.009
2NDPA	50.0	10.533	3382.8	125.6	0.004
DPA	200.0	12.047	6433.4	260.3	0.016
N-NitrosoDPA	75.0	12.936	1592.5	0	0.000
Avg. % Stabilizer for Lot				0.508 0.508	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.51 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88J070970				D533 / M6 propellant	
Date of analysis:				Date: 18 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.662	30.8	137.2	0.445
2,4-DNDPA	50.0	3.456	1073.3	0	0.000
2,2' DNDPA	50.0	5.272	842.1	21877	0.000
2,4' DNDPA	50.0	7.689	1168.8	0	0.000
4NDPA	50.0	9.242	1874.9	160.3	0.009
2NDPA	50.0	10.533	3382.8	82.8	0.002
DPA	200.0	12.047	6433.4	302.7	0.019
N-NitrosoDPA	75.0	12.936	1592.5	0	0.000
Avg. % Stabilizer for Lot				0.475 0.475	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.48 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

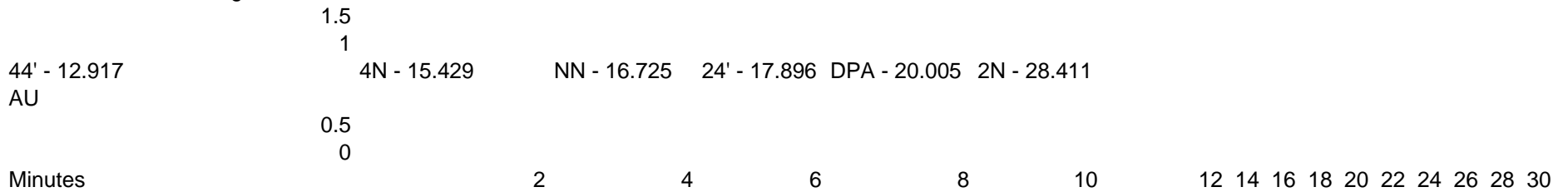
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

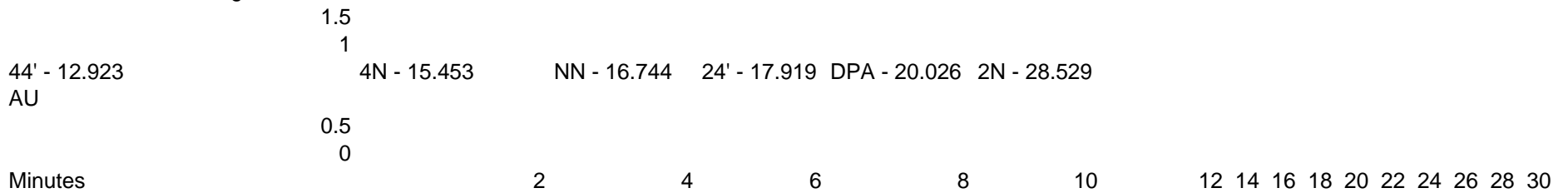
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84HY70443				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	176.1 0.863
2,4-DNDPA	50.0	50.0	3.464	904.7	0 0.000
2,2' DNDPA	50.0	50.0	5.283	519.7	23453 0.000
2,4' DNDPA	50.0	50.0	7.706	977.5	0 0.000
4NDPA	50.0	50.0	9.266	1498	53.9 0.004
2NDPA	50.0	50.0	10.552	2824.4	87.5 0.003
DPA	200.0	200.0	12.084	4976.3	542.4 0.044
N-NitrosoDPA	75.0	75.0	12.97	1330.7	0 0.000
Avg. % Stabilizer for Lot				0.914 0.914	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.91 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85CY70513				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	73.4
2,4-DNDPA	50.0	50.0	3.464	904.7	0
2,2' DNDPA	50.0	50.0	5.283	519.7	22606
2,4' DNDPA	50.0	50.0	7.706	977.5	0
4NDPA	50.0	50.0	9.266	1498	66.9
2NDPA	50.0	50.0	10.552	2824.4	113.7
DPA	200.0	200.0	12.084	4976.3	543.7
N-NitrosoDPA	75.0	75.0	12.97	1330.7	0
Avg. % Stabilizer for Lot					0.412 0.412
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.41 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85EY70582				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	103.7
2,4-DNDPA	50.0	50.0	3.464	904.7	0
2,2' DNDPA	50.0	50.0	5.283	519.7	23816
2,4' DNDPA	50.0	50.0	7.706	977.5	0
4NDPA	50.0	50.0	9.266	1498	121.3
2NDPA	50.0	50.0	10.552	2824.4	94.5
DPA	200.0	200.0	12.084	4976.3	320.1
N-NitrosoDPA	75.0	75.0	12.97	1330.7	0
Avg. % Stabilizer for Lot					0.546 0.546
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.55 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85EY70584				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.614	20.4	143.3	0.702
2,4-DNDPA	50.0	3.464	904.7	0	0.000
2,2' DNDPA	50.0	5.283	519.7	23139	0.000
2,4' DNDPA	50.0	7.706	977.5	0	0.000
4NDPA	50.0	9.266	1498	70.5	0.005
2NDPA	50.0	10.552	2824.4	104.4	0.004
DPA	200.0	12.084	4976.3	332.9	0.027
N-NitrosoDPA	75.0	12.97	1330.7	0	0.000
Avg. % Stabilizer for Lot				0.738 0.738	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.74 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

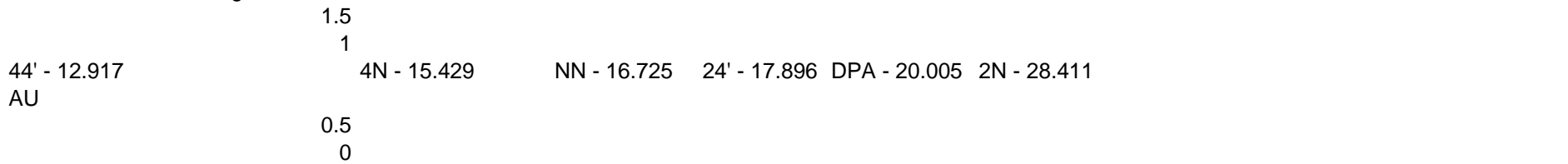
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Minutes 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

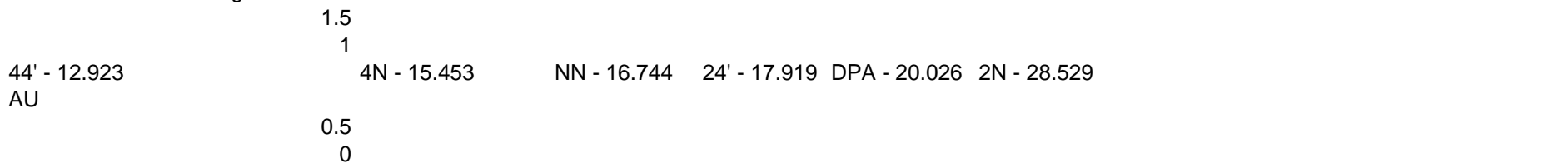
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Minutes 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85KY70597				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	162.2 0.795
2,4-DNDPA	50.0	50.0	3.464	904.7	28.1 0.003
2,2' DNDPA	50.0	50.0	5.283	519.7	23881 0.000
2,4' DNDPA	50.0	50.0	7.706	977.5	0 0.000
4NDPA	50.0	50.0	9.266	1498	75.6 0.005
2NDPA	50.0	50.0	10.552	2824.4	106.3 0.004
DPA	200.0	200.0	12.084	4976.3	339 0.027
N-NitrosodPA	75.0	75.0	12.97	1330.7	0 0.000
Avg. % Stabilizer for Lot					0.834 0.834
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.83 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87CY70711				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	182.7
2,4-DNDPA	50.0	50.0	3.464	904.7	0
2,2' DNDPA	50.0	50.0	5.283	519.7	22513
2,4' DNDPA	50.0	50.0	7.706	977.5	0
4NDPA	50.0	50.0	9.266	1498	122.7
2NDPA	50.0	50.0	10.552	2824.4	137.3
DPA	200.0	200.0	12.084	4976.3	174.9
N-NitrosoDPA	75.0	75.0	12.97	1330.7	0
Avg. % Stabilizer for Lot					0.923 0.923
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.92 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

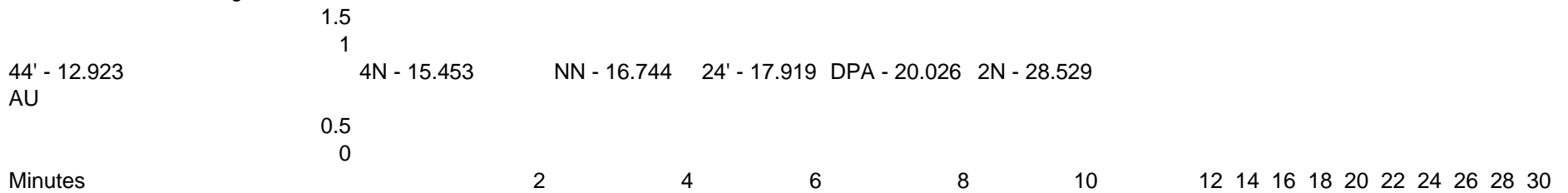
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87LY70886				D533 / M6 propellant	
Date of analysis:				Date: 19 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	20.4	226.6
2,4-DNDPA	50.0	50.0	3.464	904.7	0
2,2' DNDPA	50.0	50.0	5.283	519.7	22474
2,4' DNDPA	50.0	50.0	7.706	977.5	0
4NDPA	50.0	50.0	9.266	1498	53
2NDPA	50.0	50.0	10.552	2824.4	89.1
DPA	200.0	200.0	12.084	4976.3	451.1
N-NitrosoDPA	75.0	75.0	12.97	1330.7	0
Avg. % Stabilizer for Lot					1.154 1.154
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 1.15 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84HY70441				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	292.7
2,4-DNDPA	50.0	50.0	3.459	919.4	0
2,2' DNDPA	50.0	50.0	5.284	451.4	21407
2,4' DNDPA	50.0	50.0	7.719	1000.1	0
4NDPA	50.0	50.0	9.269	1596.1	139
2NDPA	50.0	50.0	10.555	2887.6	245.2
DPA	200.0	200.0	12.066	5400.7	153.8
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0
Avg. % Stabilizer for Lot					0.343 0.343
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.34 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84MY70460				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	286.8
2,4-DNDPA	50.0	50.0	3.459	919.4	0
2,2' DNDPA	50.0	50.0	5.284	451.4	21081
2,4' DNDPA	50.0	50.0	7.719	1000.1	0
4NDPA	50.0	50.0	9.269	1596.1	88.8
2NDPA	50.0	50.0	10.555	2887.6	235.9
DPA	200.0	200.0	12.066	5400.7	198
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0
Avg. % Stabilizer for Lot					0.336 0.336
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.34 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85KY70598				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	287.9 0.309
2,4-DNDPA	50.0	50.0	3.459	919.4	0 0.000
2,2' DNDPA	50.0	50.0	5.284	451.4	22897 0.000
2,4' DNDPA	50.0	50.0	7.719	1000.1	0 0.000
4NDPA	50.0	50.0	9.269	1596.1	116.7 0.007
2NDPA	50.0	50.0	10.555	2887.6	160.7 0.006
DPA	200.0	200.0	12.066	5400.7	163 0.012
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0 0.000
				0.334	
				Avg. % Stabilizer for Lot 0.334	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

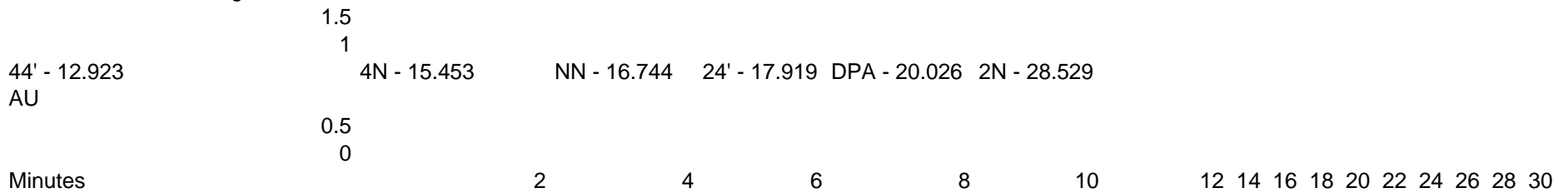
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85LY70599				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	308.3
2,4-DNDPA	50.0	50.0	3.459	919.4	0
2,2' DNDPA	50.0	50.0	5.284	451.4	23005
2,4' DNDPA	50.0	50.0	7.719	1000.1	0
4NDPA	50.0	50.0	9.269	1596.1	74.6
2NDPA	50.0	50.0	10.555	2887.6	150.3
DPA	200.0	200.0	12.066	5400.7	251.3
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0
Avg. % Stabilizer for Lot					0.360 0.360
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87AY70675				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.686	93.1	331.1	0.356
2,4-DNDPA	50.0	3.459	919.4	0	0.000
2,2' DNDPA	50.0	5.284	451.4	22014	0.000
2,4' DNDPA	50.0	7.719	1000.1	0	0.000
4NDPA	50.0	9.269	1596.1	79.9	0.005
2NDPA	50.0	10.555	2887.6	210.2	0.007
DPA	200.0	12.066	5400.7	115	0.009
N-NitrosoDPA	75.0	12.95	1367.3	0	0.000
Avg. % Stabilizer for Lot					0.376 0.376
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.38 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87BY70680				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	403.7 0.434
2,4-DNDPA	50.0	50.0	3.459	919.4	0 0.000
2,2' DNDPA	50.0	50.0	5.284	451.4	21569 0.000
2,4' DNDPA	50.0	50.0	7.719	1000.1	0 0.000
4NDPA	50.0	50.0	9.269	1596.1	62.8 0.004
2NDPA	50.0	50.0	10.555	2887.6	95 0.003
DPA	200.0	200.0	12.066	5400.7	328.5 0.024
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0 0.000
Avg. % Stabilizer for Lot				0.465 0.465	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.47 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

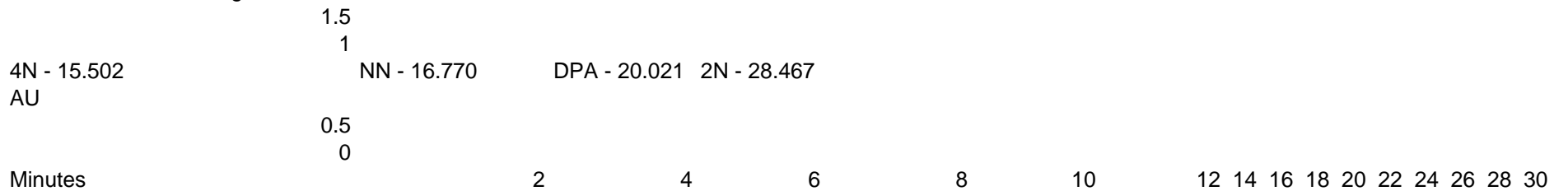
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89BY71036				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	445.9 <u>0.479</u>
2,4-DNDPA	50.0	50.0	3.459	919.4	0 <u>0.000</u>
2,2' DNDPA	50.0	50.0	5.284	451.4	22784 <u>0.000</u>
2,4' DNDPA	50.0	50.0	7.719	1000.1	0 <u>0.000</u>
4NDPA	50.0	50.0	9.269	1596.1	69.2 <u>0.004</u>
2NDPA	50.0	50.0	10.555	2887.6	87.6 <u>0.003</u>
DPA	200.0	200.0	12.066	5400.7	545.7 <u>0.040</u>
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0 <u>0.000</u>
0.527					
Avg. % Stabilizer for Lot					0.527
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.53 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

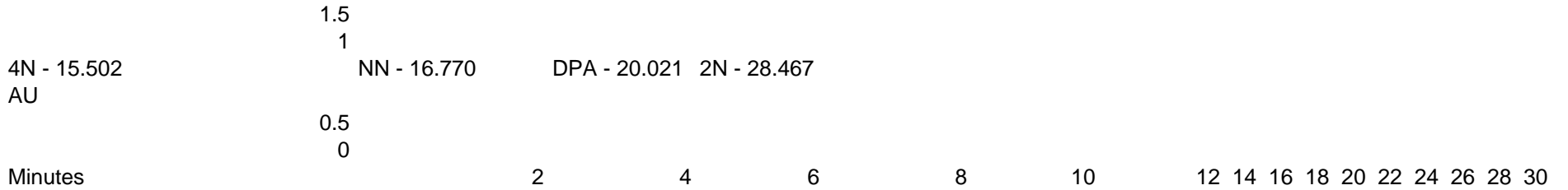
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
 Peak Results
 Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89DY71039				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.686	93.1	344.9
2,4-DNDPA	50.0	50.0	3.459	919.4	0
2,2' DNDPA	50.0	50.0	5.284	451.4	23233
2,4' DNDPA	50.0	50.0	7.719	1000.1	0
4NDPA	50.0	50.0	9.269	1596.1	149.6
2NDPA	50.0	50.0	10.555	2887.6	197.1
DPA	200.0	200.0	12.066	5400.7	227.5
N-NitrosoDPA	75.0	75.0	12.95	1367.3	0
Avg. % Stabilizer for Lot					0.404 0.404
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.40 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89FY71043				D533 / M6 propellant	
Date of analysis:				Date: 22 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.686	93.1	365.5	0.393
2,4-DNDPA	50.0	3.459	919.4	0	0.000
2,2' DNDPA	50.0	5.284	451.4	22772	0.000
2,4' DNDPA	50.0	7.719	1000.1	0	0.000
4NDPA	50.0	9.269	1596.1	84.3	0.005
2NDPA	50.0	10.555	2887.6	172.7	0.006
DPA	200.0	12.066	5400.7	296.4	0.022
N-NitrosoDPA	75.0	12.95	1367.3	0	0.000
Avg. % Stabilizer for Lot				0.426 0.426	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.43 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

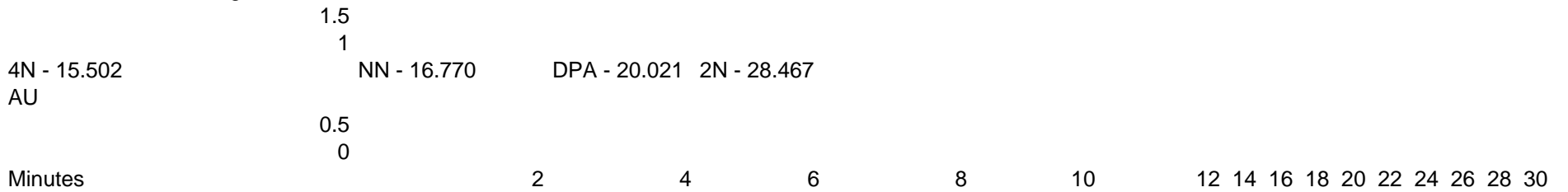
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070166				D533 / M6 propellant	
Date of analysis:				Date: 25 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent ACN
			0.50 g		100 ml
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.619	108.2	594.8
2,4-DNDPA	50.0	50.0	3.457	922.2	0
2,2' DNDPA	50.0	50.0	5.27	663.5	24659
2,4' DNDPA	50.0	50.0	7.68	999	0
4NDPA	50.0	50.0	9.231	1567.3	48
2NDPA	50.0	50.0	10.513	2878.5	88.3
DPA	200.0	200.0	12.033	5211.5	696.6
N-NitrosoDPA	75.0	75.0	12.911	1365.5	0
				0.609	
				Avg. % Stabilizer for Lot 0.609	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.61 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070848				D533 / M6 propellant	
Date of analysis:				Date: 25 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.619	108.2	298.9	0.276
2,4-DNDPA	50.0	3.457	922.2	15.6	0.002
2,2' DNDPA	50.0	5.27	663.5	22816	0.000
2,4' DNDPA	50.0	7.68	999	0	0.000
4NDPA	50.0	9.231	1567.3	80.7	0.005
2NDPA	50.0	10.513	2878.5	128.4	0.004
DPA	200.0	12.033	5211.5	877.1	0.067
N-NitrosoDPA	75.0	12.911	1365.5	0	0.000
Avg. % Stabilizer for Lot				0.355 0.355	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.35 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81BY70013				D533 / M6 propellant	
Date of analysis:				Date: 29 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.645	25.8	276.6	1.072
2,4-DNDPA	50.0	3.455	935.1	0	0.000
2,2' DNDPA	50.0	5.27	617.1	21259	0.000
2,4' DNDPA	50.0	7.689	1017.5	0	0.000
4NDPA	50.0	9.239	1621.4	113	0.007
2NDPA	50.0	10.527	2921.7	196.9	0.007
DPA	200.0	12.049	5600.8	332.6	0.024
N-NitrosoDPA	75.0	12.932	1374.7	0	0.000
Avg. % Stabilizer for Lot				1.110 1.110	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 1.11 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83GY70281				D533 / M6 propellant	
Date of analysis:				Date: 29 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	170.9	486.9 <u>0.285</u>
2,4-DNDPA	50.0	50.0	3.46	920.9	0 <u>0.000</u>
2,2' DNDPA	50.0	50.0	5.275	1063.9	22944 <u>0.000</u>
2,4' DNDPA	50.0	50.0	7.69	999.2	0 <u>0.000</u>
4NDPA	50.0	50.0	9.238	1592.6	164.9 <u>0.010</u>
2NDPA	50.0	50.0	10.521	2874.3	129.8 <u>0.005</u>
DPA	200.0	200.0	12.047	5416.3	292.6 <u>0.022</u>
N-NitrosoDPA	75.0	75.0	12.927	1358.6	0 <u>0.000</u>
Avg. % Stabilizer for Lot					0.321 0.321
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.32 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

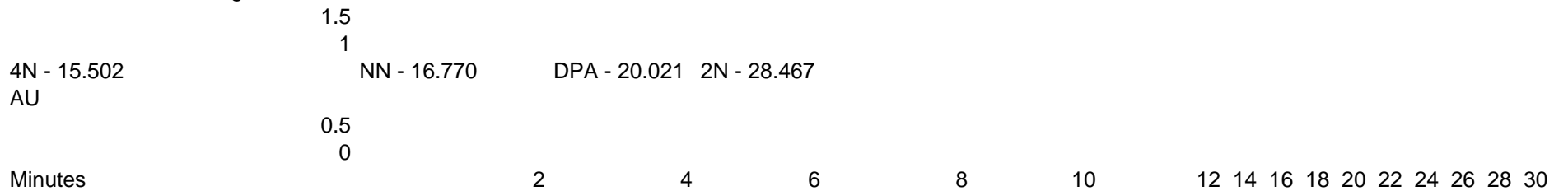
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89LY71298				D533 / M6 propellant	
Date of analysis:				Date: 29 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.0	0.614	170.9	471.8
2,4-DNDPA	50.0	5.0	3.46	920.9	0
2,2' DNDPA	50.0	5.0	5.275	1063.9	22513
2,4' DNDPA	50.0	5.0	7.69	999.2	0
4NDPA	50.0	5.0	9.238	1592.6	78.8
2NDPA	50.0	5.0	10.521	2874.3	96.2
DPA	200.0	5.0	12.047	5416.3	596.4
N-NitrosoDPA	75.0	5.0	12.927	1358.6	0
Avg. % Stabilizer for Lot					0.328 0.328
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

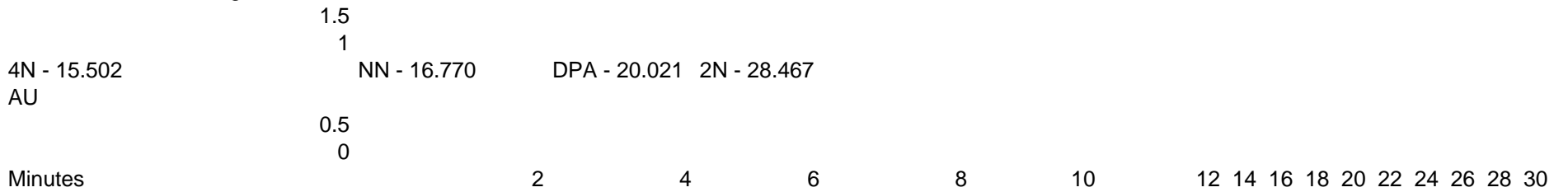
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND90AY71303				D533 / M6 propellant	
Date of analysis:				Date: 29 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.614	170.9	584.1
2,4-DNDPA	50.0	50.0	3.46	920.9	0
2,2' DNDPA	50.0	50.0	5.275	1063.9	23465
2,4' DNDPA	50.0	50.0	7.69	999.2	0
4NDPA	50.0	50.0	9.238	1592.6	75.7
2NDPA	50.0	50.0	10.521	2874.3	128.8
DPA	200.0	200.0	12.047	5416.3	699.7
N-NitrosoDPA	75.0	75.0	12.927	1358.6	0
Avg. % Stabilizer for Lot					0.403 0.403
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.40 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

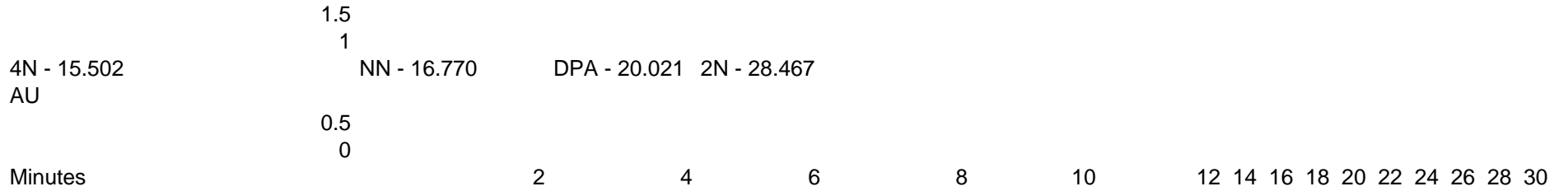
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81LY70073				D533 / M6 propellant	
Date of analysis:				Date: 3 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.674	191.4	570.3	0.298
2,4-DNDPA	50.0	3.529	937	0	0.000
2,2' DNDPA	50.0	5.459	96.6	22904	0.000
2,4' DNDPA	50.0	8.066	1018.5	0	0.000
4NDPA	50.0	9.596	1629.7	69.5	0.004
2NDPA	50.0	10.914	2927.6	149.7	0.005
DPA	200.0	12.385	5632.8	694.9	0.049
N-NitrosoDPA	75.0	13.306	1364	0	0.000
				0.357	
				Avg. % Stabilizer for Lot 0.357	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.36 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

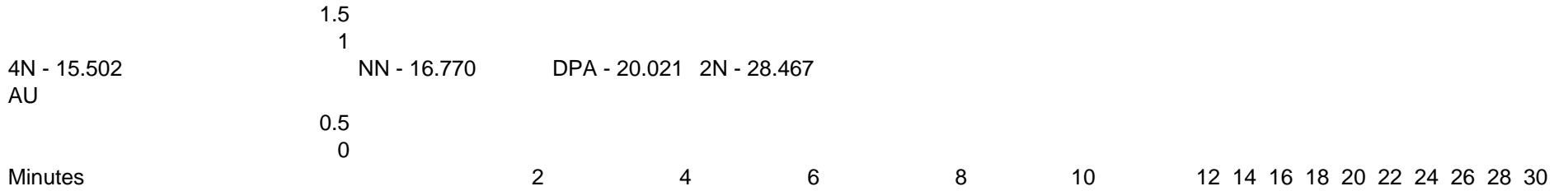
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83DY70238				D533 / M6 propellant	
Date of analysis:				Date: 31 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent ACN
			0.50 g		100 ml
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.688	18.3	179.2
2,4-DNDPA	50.0	50.0	3.458	936.4	14.3
2,2' DNDPA	50.0	50.0	5.276	1119.9	23756
2,4' DNDPA	50.0	50.0	7.693	1017.1	0
4NDPA	50.0	50.0	9.239	1629.3	186.9
2NDPA	50.0	50.0	10.514	2936.2	159.9
DPA	200.0	200.0	12.036	5632.7	403.9
N-NitrosoDPA	75.0	75.0	12.908	1378.1	0
					1.026
Avg. % Stabilizer for Lot					1.026
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 1.03 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88EY70963				D533 / M6 propellant	
Date of analysis:				Date: 31 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.688	18.3	187.2
2,4-DNDPA	50.0	50.0	3.458	936.4	0
2,2' DNDPA	50.0	50.0	5.276	1119.9	26764
2,4' DNDPA	50.0	50.0	7.693	1017.1	0
4NDPA	50.0	50.0	9.239	1629.3	111.1
2NDPA	50.0	50.0	10.514	2936.2	160.7
DPA	200.0	200.0	12.036	5632.7	712.4
N-NitrosoDPA	75.0	75.0	12.908	1378.1	0
				1.086	
				1.086	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 1.09 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

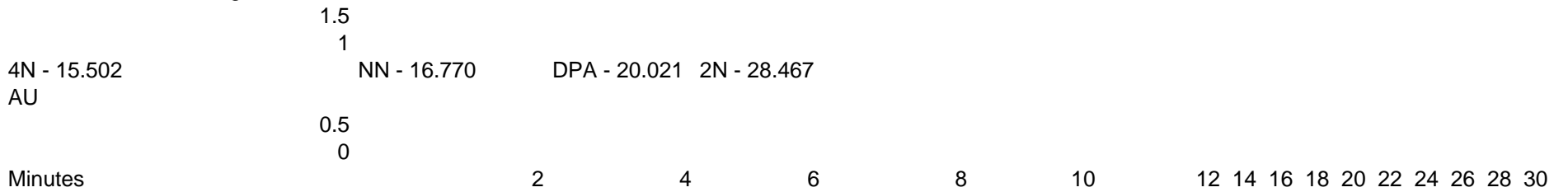
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84BY70325				D533 / M6 propellant	
Date of analysis:				Date: 4 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.633	245.7	604.7	0.246
2,4-DNDPA	50.0	3.489	1008	0	0.000
2,2' DNDPA	50.0	5.345	162.1	23839	0.000
2,4' DNDPA	50.0	7.825	1089.1	0	0.000
4NDPA	50.0	9.38	1703.6	82.3	0.005
2NDPA	50.0	10.682	3137.7	135.3	0.004
DPA	200.0	12.197	5674.1	602.8	0.042
N-NitrosoDPA	75.0	13.097	1505.3	0	0.000
				0.298	
				Avg. % Stabilizer for Lot	
				0.298	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.30 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84DY70429				D533 / M6 propellant	
Date of analysis:				Date: 5 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.678	201.3	570.1	0.283
2,4-DNDPA	50.0	3.459	1020.9	0	0.000
2,2' DNDPA	50.0	5.282	161	22591	0.000
2,4' DNDPA	50.0	7.709	1099.7	0	0.000
4NDPA	50.0	9.262	1751.7	63.3	0.004
2NDPA	50.0	10.554	3173.8	124.5	0.004
DPA	200.0	12.074	6024.4	365.9	0.024
N-NitrosoDPA	75.0	12.964	1514.6	0	0.000
				0.315	
				0.315	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON				Avg. Tot. Stabilizers 0.32 %	
Analyst Signature				Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82EY70115				D533 / M6 propellant	
Date of analysis:				Date: 8 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.628	205.5	472.1	0.230
2,4-DNDPA	50.0	3.448	1015	78.9	0.008
2,2' DNDPA	50.0	5.258	360.9	22614	0.000
2,4' DNDPA	50.0	7.67	1098	71.9	0.007
4NDPA	50.0	9.222	1727.5	258.1	0.015
2NDPA	50.0	10.509	3158.9	395.9	0.013
DPA	200.0	12.032	5852.2	442.8	0.030
N-NitrosoDPA	75.0	12.917	1518.1	94.4	0.000
Avg. % Stabilizer for Lot					0.302 0.302
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.30 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84HY70442				D533 / M6 propellant	
Date of analysis:				Date: 8 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.628	205.5	583.4	0.284
2,4-DNDPA	50.0	3.448	1015	16.5	0.002
2,2' DNDPA	50.0	5.258	360.9	23437	0.000
2,4' DNDPA	50.0	7.67	1098	0	0.000
4NDPA	50.0	9.222	1727.5	146.7	0.008
2NDPA	50.0	10.509	3158.9	160.8	0.005
DPA	200.0	12.032	5852.2	209.7	0.014
N-NitrosodPA	75.0	12.917	1518.1	0	0.000
Avg. % Stabilizer for Lot				0.313 0.313	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.31 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87AY70677				D533 / M6 propellant	
Date of analysis:				Date: 8 AUGUST 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.628	205.5	566.1	0.275
2,4-DNDPA	50.0	3.448	1015	0	0.000
2,2' DNDPA	50.0	5.258	360.9	24274	0.000
2,4' DNDPA	50.0	7.67	1098	0	0.000
4NDPA	50.0	9.222	1727.5	122.9	0.007
2NDPA	50.0	10.509	3158.9	109.9	0.003
DPA	200.0	12.032	5852.2	241.4	0.016
N-NitrosoDPA	75.0	12.917	1518.1	0	0.000
Avg. % Stabilizer for Lot					0.303 0.303
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.30 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070009				D533 / M6 propellant	
Date of analysis:				Date: 15 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.716	89	477.7	0.537
2,4-DNDPA	50.0	3.354	989.9	0	0.000
2,2' DNDPA	50.0	5.056	1008.9	22956	0.000
2,4' DNDPA	50.0	7.222	1069.8	0	0.000
4NDPA	50.0	8.691	1720.4	60.2	0.003
2NDPA	50.0	9.777	3086.9	111.1	0.004
DPA	200.0	11.201	6051.5	801.6	0.053
N-NitrosoDPA	75.0	11.884	1475.1	0	0.000
				0.597	
				Avg. % Stabilizer for Lot	
				0.597	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.60 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

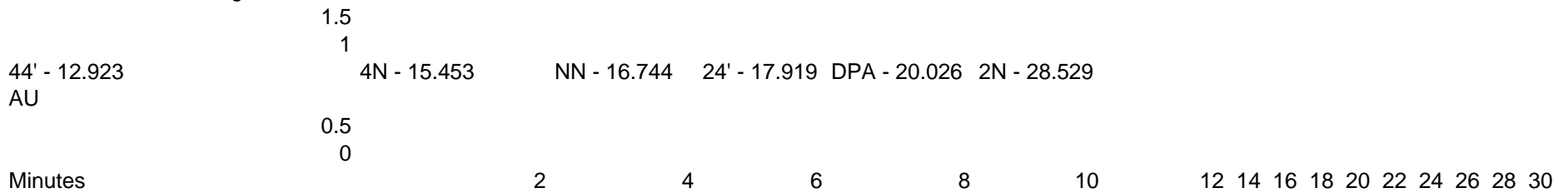
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

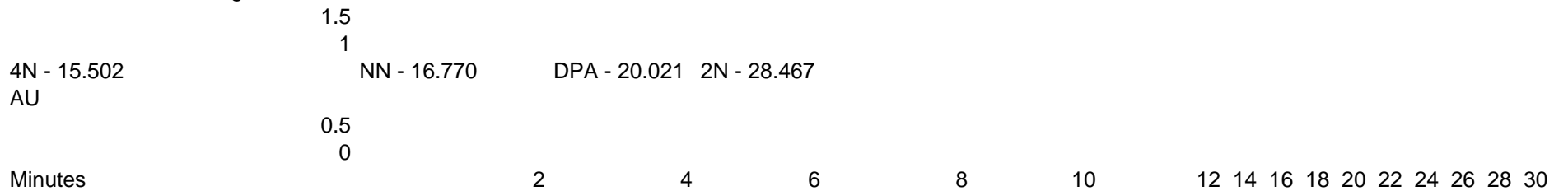
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86L070640		D533 / M6 propellant	
Date of analysis:		Date: 15 DEC 2011	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.716	89	673.7	0.757
2,4-DNDPA	50.0	3.354	989.9	0	0.000
2,2' DNDPA	50.0	5.056	1008.9	22408	0.000
2,4' DNDPA	50.0	7.222	1069.8	0	0.000
4NDPA	50.0	8.691	1720.4	34.4	0.002
2NDPA	50.0	9.777	3086.9	69.9	0.002
DPA	200.0	11.201	6051.5	708	0.047
N-NitrosoDPA	75.0	11.884	1475.1	0	0.000

Avg. % Stabilizer for Lot	0.808
	0.808

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON	Avg. Tot. Stabilizers 0.81 % %
Analyst Signature	Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070016				D533 / M6 propellant	
Date of analysis:				Date: 21 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.67	192.9	559.9	0.290
2,4-DNDPA	50.0	3.298	1077.6	0	0.000
2,2' DNDPA	50.0	4.953	951.5	20575	0.000
2,4' DNDPA	50.0	6.749	1136.2	0	0.000
4NDPA	50.0	8.218	1880.4	37.2	0.002
2NDPA	50.0	9.339	3292.9	100.6	0.003
DPA	200.0	10.48	6310.2	695.7	0.044
N-NitrosoDPA	75.0	11.073	1512.2	0	0.000
				0.339	
				Avg. % Stabilizer for Lot	
				0.339	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.34 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83D070238				D533 / M6 propellant	
Date of analysis:				Date: 21 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.67	192.9	503.6	0.261
2,4-DNDPA	50.0	3.298	1077.6	0	0.000
2,2' DNDPA	50.0	4.953	951.5	21414	0.000
2,4' DNDPA	50.0	6.749	1136.2	0	0.000
4NDPA	50.0	8.218	1880.4	35.8	0.002
2NDPA	50.0	9.339	3292.9	81.9	0.002
DPA	200.0	10.48	6310.2	783.2	0.050
N-NitrosoDPA	75.0	11.073	1512.2	0	0.000
				0.315	
				0.315	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.32 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070323				D533 / M6 propellant	
Date of analysis:				Date: 21 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.67	192.9	675.2	0.350
2,4-DNDPA	50.0	3.298	1077.6	0	0.000
2,2' DNDPA	50.0	4.953	951.5	22469	0.000
2,4' DNDPA	50.0	6.749	1136.2	0	0.000
4NDPA	50.0	8.218	1880.4	46.5	0.002
2NDPA	50.0	9.339	3292.9	89.5	0.003
DPA	200.0	10.48	6310.2	733.6	0.047
N-NitrosoDPA	75.0	11.073	1512.2	0	0.000
				0.402	
				0.402	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

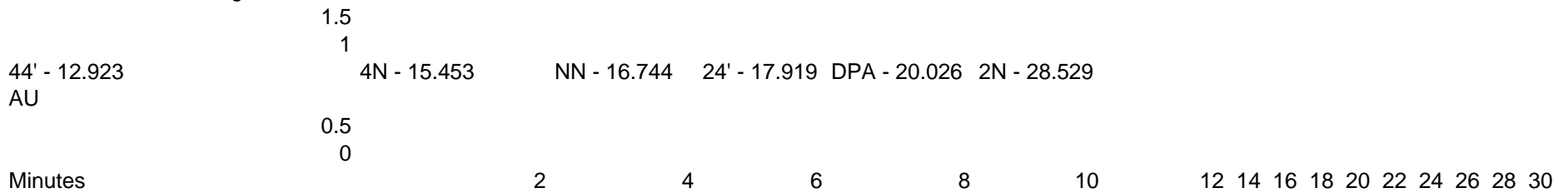
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070431				D533 / M6 propellant	
Date of analysis:				Date: 21 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.67	192.9	761.7	0.395
2,4-DNDPA	50.0	3.298	1077.6	0	0.000
2,2' DNDPA	50.0	4.953	951.5	21879	0.000
2,4' DNDPA	50.0	6.749	1136.2	0	0.000
4NDPA	50.0	8.218	1880.4	41.2	0.002
2NDPA	50.0	9.339	3292.9	84	0.003
DPA	200.0	10.48	6310.2	1091.8	0.069
N-NitrosoDPA	75.0	11.073	1512.2	0	0.000
				0.469	
				0.469	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.47 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87D070712				D533 / M6 propellant	
Date of analysis:				Date: 21 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.67	192.9	615.8	0.319
2,4-DNDPA	50.0	3.298	1077.6	0	0.000
2,2' DNDPA	50.0	4.953	951.5	23433	0.000
2,4' DNDPA	50.0	6.749	1136.2	0	0.000
4NDPA	50.0	8.218	1880.4	77.7	0.004
2NDPA	50.0	9.339	3292.9	467.5	0.014
DPA	200.0	10.48	6310.2	609.4	0.039
N-NitrosoDPA	75.0	11.073	1512.2	0	0.000
				0.376	
				Avg. % Stabilizer for Lot 0.376	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.38 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

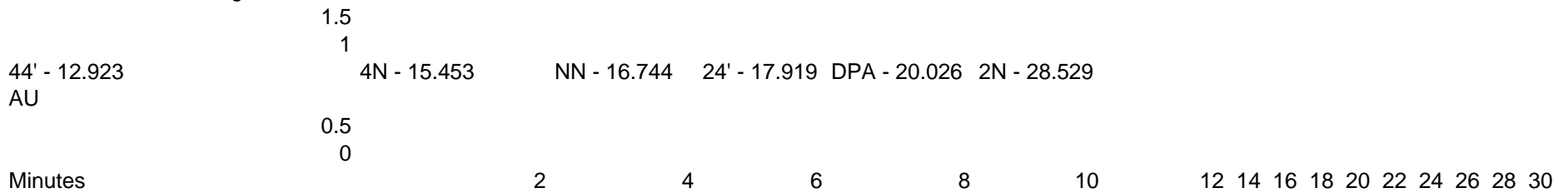
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

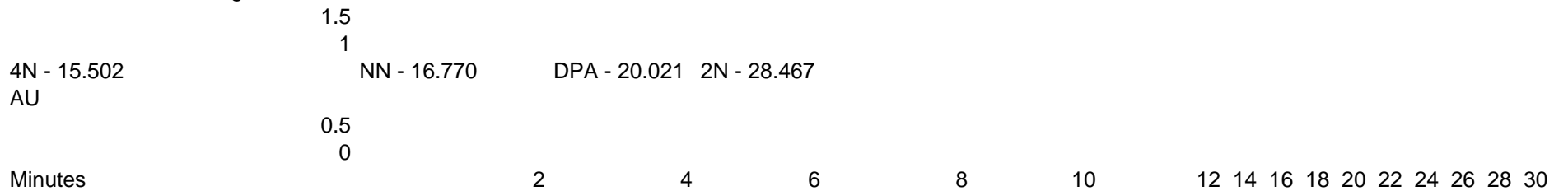
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81F070024				D533 / M6 propellant	
Date of analysis:				Date: 9 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.748	166.8	892.3	0.535
2,4-DNDPA	50.0	3.333	991.5	0	0.000
2,2' DNDPA	50.0	5.039	624.7	22530	0.000
2,4' DNDPA	50.0	7.221	1076.5	0	0.000
4NDPA	50.0	8.681	1747.7	46.9	0.003
2NDPA	50.0	9.803	3112	109.9	0.004
DPA	200.0	11.276	5985.4	604.1	0.040
N-NitrosoDPA	75.0	12.035	1482.1	0	0.000
				0.582	
				Avg. % Stabilizer for Lot 0.582	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.58 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

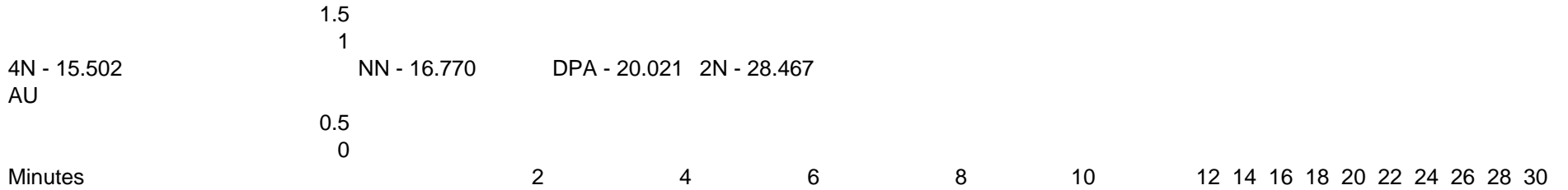
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86H070621				D533 / M6 propellant	
Date of analysis:				Date: 9 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.748	166.8	581.8	0.349
2,4-DNDPA	50.0	3.333	991.5	0	0.000
2,2' DNDPA	50.0	5.039	624.7	23233	0.000
2,4' DNDPA	50.0	7.221	1076.5	0	0.000
4NDPA	50.0	8.681	1747.7	65.3	0.004
2NDPA	50.0	9.803	3112	85.8	0.003
DPA	200.0	11.276	5985.4	755.4	0.050
N-NitrosoDPA	75.0	12.035	1482.1	0	0.000
				0.406	
				0.406	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.41 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87J070849				D533 / M6 propellant	
Date of analysis:				Date: 9 DEC 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.748	166.8	408.7	0.245
2,4-DNDPA	50.0	3.333	991.5	0	0.000
2,2' DNDPA	50.0	5.039	624.7	23312	0.000
2,4' DNDPA	50.0	7.221	1076.5	0	0.000
4NDPA	50.0	8.681	1747.7	60.9	0.003
2NDPA	50.0	9.803	3112	61.3	0.002
DPA	200.0	11.276	5985.4	727.2	0.049
N-NitrosoDPA	75.0	12.035	1482.1	0	0.000
				0.299	
				0.299	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON				Avg. Tot. Stabilizers 0.30 % %	
Analyst Signature				Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
		2 BAGS FOR Lot #
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

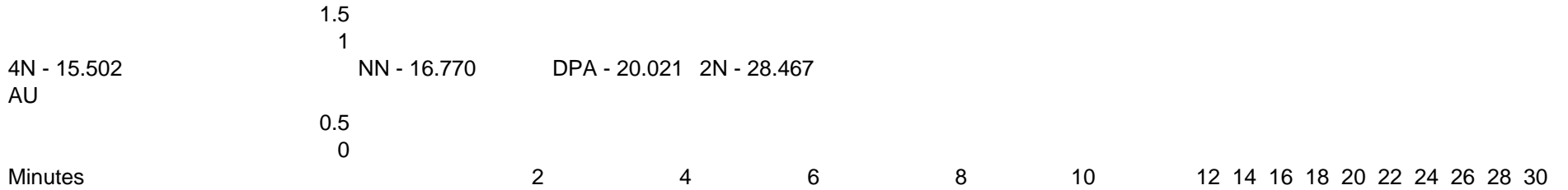
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070020				D533 / M6 propellant	
Date of analysis:				Date: 10 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	53.7	398.1 0.741
2,4-DNDPA	50.0		3.292	916.2	0 0.000
2,2' DNDPA	50.0		4.936	839.4	22071 0.000
2,4' DNDPA	50.0		6.943	1003.3	0 0.000
4NDPA	50.0		8.309	1616.5	50 0.003
2NDPA	50.0		9.362	2912	113.3 0.004
DPA	200.0		10.749	5497.2	666 0.048
N-NitrosoDPA	75.0		11.362	1264.1	355.2 0.000
Avg. % Stabilizer for Lot					0.797 0.797
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.80 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

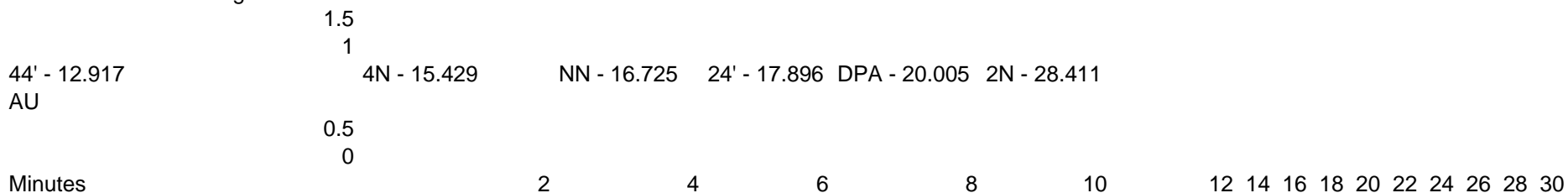
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

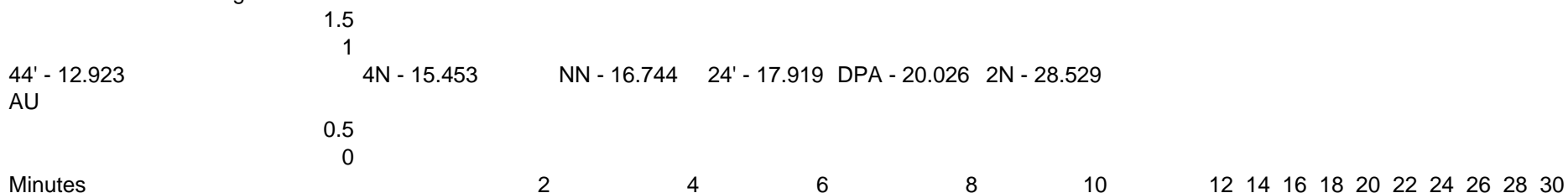
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84CG69842				D533 / M6 propellant	
Date of analysis:				Date: 10 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	53.7	284.8 / 0.530
2,4-DNDPA	50.0		3.292	916.2	0 / 0.000
2,2' DNDPA	50.0		4.936	839.4	22724 / 0.000
2,4' DNDPA	50.0		6.943	1003.3	0 / 0.000
4NDPA	50.0		8.309	1616.5	82.1 / 0.005
2NDPA	50.0		9.362	2912	129 / 0.004
DPA	200.0		10.749	5497.2	901.1 / 0.066
N-NitrosoDPA	75.0		11.362	1264.1	0 / 0.000
Avg. % Stabilizer for Lot					0.605 0.605
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.61 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070509				D533 / M6 propellant	
Date of analysis:				Date: 10 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	53.7	182.9 / 0.341
2,4-DNDPA	50.0		3.292	916.2	0 / 0.000
2,2' DNDPA	50.0		4.936	839.4	22289 / 0.000
2,4' DNDPA	50.0		6.943	1003.3	0 / 0.000
4NDPA	50.0		8.309	1616.5	629.8 / 0.039
2NDPA	50.0		9.362	2912	220.5 / 0.008
DPA	200.0		10.749	5497.2	0 / 0.000
N-NitrosoDPA	75.0		11.362	1264.1	0 / 0.000
				Avg. % Stabilizer for Lot	0.387
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.39 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

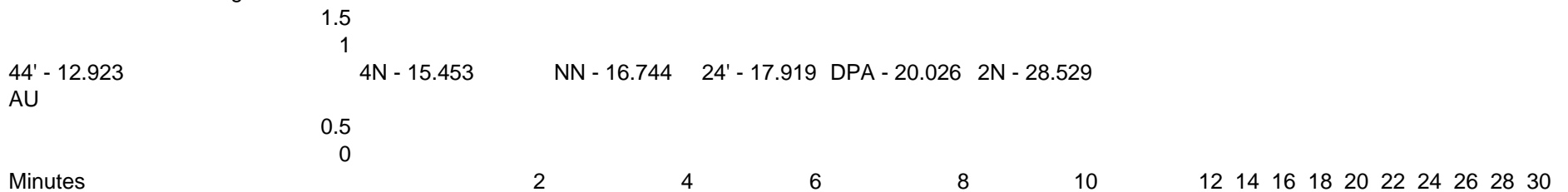
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88C070893				D533 / M6 propellant	
Date of analysis:				Date: 10 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	53.7	490.7 0.914
2,4-DNDPA	50.0		3.292	916.2	0 0.000
2,2' DNDPA	50.0		4.936	839.4	22419 0.000
2,4' DNDPA	50.0		6.943	1003.3	0 0.000
4NDPA	50.0		8.309	1616.5	421.1 0.026
2NDPA	50.0		9.362	2912	117.1 0.004
DPA	200.0		10.749	5497.2	786.3 0.057
N-NitrosoDPA	75.0		11.362	1264.1	0 0.000
				1.001	
				Avg. % Stabilizer for Lot 1.001	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.00 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

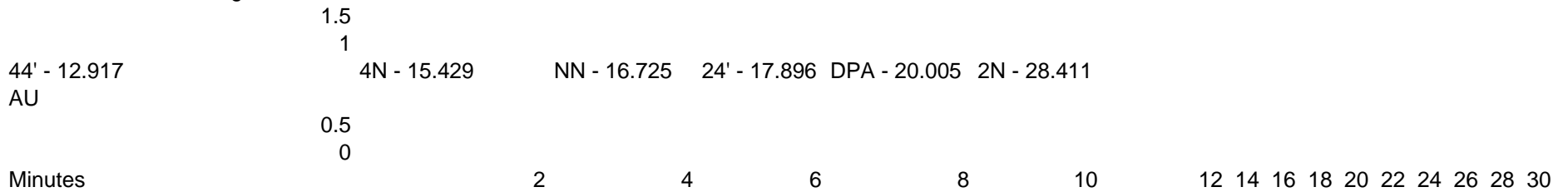
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

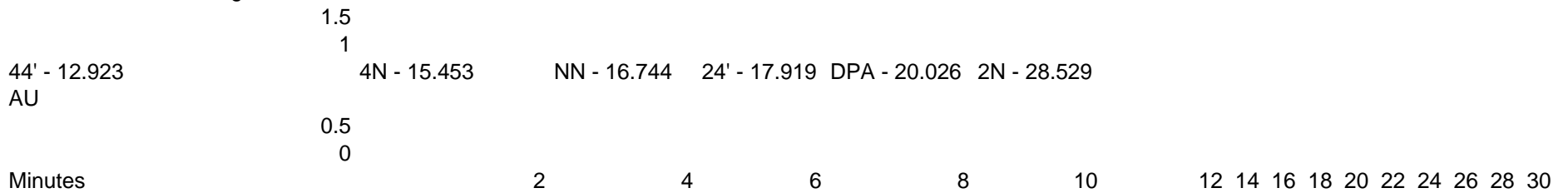
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88C070893				D533 / M6 propellant	
Date of analysis:				Date: 10 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	53.7	278 0.518
2,4-DNDPA	50.0		3.292	916.2	0 0.000
2,2' DNDPA	50.0		4.936	839.4	22673 0.000
2,4' DNDPA	50.0		6.943	1003.3	0 0.000
4NDPA	50.0		8.309	1616.5	80 0.005
2NDPA	50.0		9.362	2912	116.3 0.004
DPA	200.0		10.749	5497.2	720.6 0.052
N-NitrosoDPA	75.0		11.362	1264.1	0 0.000
Avg. % Stabilizer for Lot					0.579 0.579
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.58 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

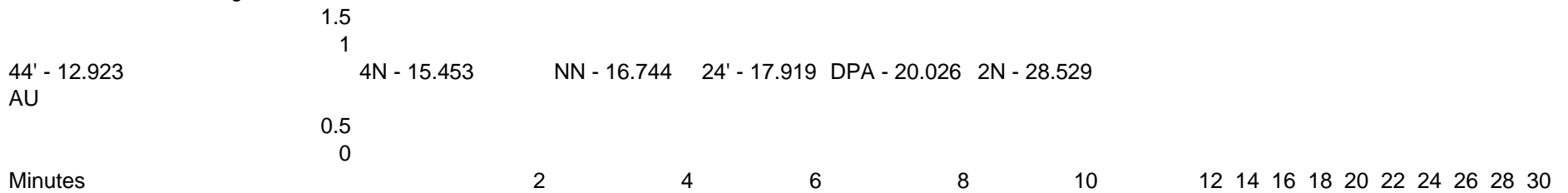
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82G070163				D533 / M6 propellant	
Date of analysis:				Date: 16 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	18.5	166.1	0.898
2,4-DNDPA	50.0	3.43	884.6	15.8	0.002
2,2' DNDPA	50.0	5.233	1323.8	22378	0.000
2,4' DNDPA	50.0	7.598	950.1	0	0.000
4NDPA	50.0	9.144	1529.9	62.2	0.004
2NDPA	50.0	10.369	2763.2	178.4	0.006
DPA	200.0	11.905	5447.1	752.1	0.055
N-NitrosoDPA	75.0	12.745	1323.1	0	0.000
				0.965	
				0.965	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.97 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
Actions to be Taken					

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88M070994				D533 / M6 propellant	
Date of analysis:				Date: 16 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	18.5	180.9	0.978
2,4-DNDPA	50.0	3.43	884.6	0	0.000
2,2' DNDPA	50.0	5.233	1323.8	22663	0.000
2,4' DNDPA	50.0	7.598	950.1	0	0.000
4NDPA	50.0	9.144	1529.9	37.5	0.002
2NDPA	50.0	10.369	2763.2	80.4	0.003
DPA	200.0	11.905	5447.1	752.1	0.055
N-NitrosoDPA	75.0	12.745	1323.1	0	0.000
				1.038	
Avg. % Stabilizer for Lot				1.038	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.04 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

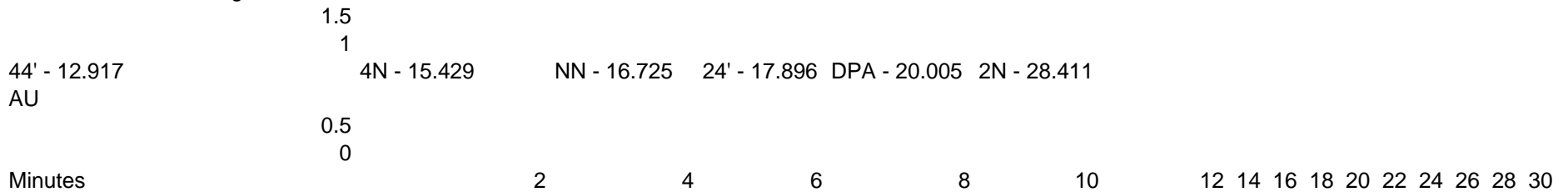
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

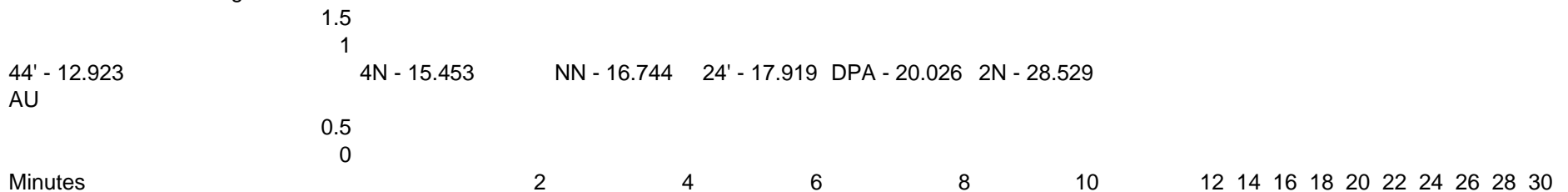
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070278				D533 / M6 propellant	
Date of analysis:				Date: 17 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.869	12.6	73.1	0.580
2,4-DNDPA	50.0	3.42	880.6	0	0.000
2,2' DNDPA	50.0	5.218	1402	23243	0.000
2,4' DNDPA	50.0	7.58	948.7	0	0.000
4NDPA	50.0	9.121	1531.3	103.4	0.007
2NDPA	50.0	10.346	2749.6	76.9	0.003
DPA	200.0	11.875	5397.5	554.2	0.041
N-NitrosoDPA	75.0	12.713	1315.5	0	0.000
Avg. % Stabilizer for Lot					0.631 0.631
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.63 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87A070675				D533 / M6 propellant	
Date of analysis:				Date: 17 Feb 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.869	12.6	173.4	1.376
2,4-DNDPA	50.0	3.42	880.6	0	0.000
2,2' DNDPA	50.0	5.218	1402	22654	0.000
2,4' DNDPA	50.0	7.58	948.7	0	0.000
4NDPA	50.0	9.121	1531.3	63.3	0.004
2NDPA	50.0	10.346	2749.6	108.3	0.004
DPA	200.0	11.875	5397.5	786.5	0.058
N-NitrosoDPA	75.0	12.713	1315.5	0	0.000
				1.443	
				1.443	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.44 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070071				D533 / M6 propellant	
Date of analysis:				Date: 7 FEB 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	50.1	541.1	1.080
2,4-DNDPA	50.0	3.336	893.6	14.7	0.002
2,2' DNDPA	50.0	5.03	726.8	22818	0.000
2,4' DNDPA	50.0	7.182	1225.5	0	0.000
4NDPA	50.0	8.642	1532.1	73.1	0.005
2NDPA	50.0	9.759	2784.7	153.7	0.006
DPA	200.0	11.235	5480.9	820.7	0.060
N-NitrosoDPA	75.0	11.979	1363.1	0	0.000
				1.152	
				Avg. % Stabilizer for Lot 1.152	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 1.15 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

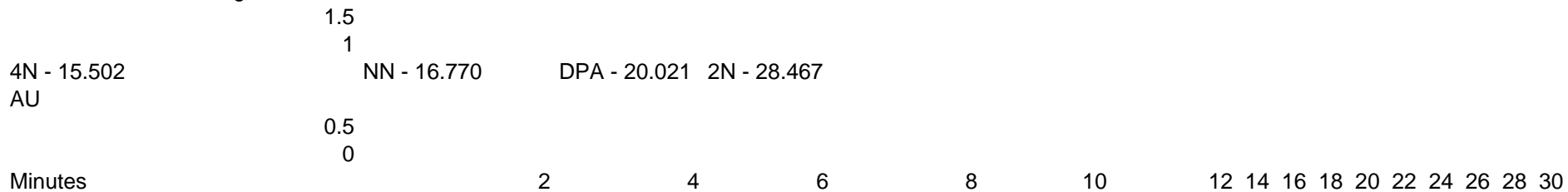
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86M070673				D533 / M6 propellant	
Date of analysis:				Date: 7 FEB 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	50.1	452.6	0.903
2,4-DNDPA	50.0	3.336	893.6	0	0.000
2,2' DNDPA	50.0	5.03	726.8	22299	0.000
2,4' DNDPA	50.0	7.182	1225.5	0	0.000
4NDPA	50.0	8.642	1532.1	67.5	0.004
2NDPA	50.0	9.759	2784.7	120.3	0.004
DPA	200.0	11.235	5480.9	727.3	0.053
N-NitrosoDPA	75.0	11.979	1363.1	0	0.000
				0.965	
				0.965	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON				Avg. Tot. Stabilizers 0.97 % %	
Analyst Signature				Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89M071300 **D533 / M6 propellant**

Date of analysis: **Date: 13 JAN 2012**

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml ACN	Solvent
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.666	14.8	130.4	0.881
2,4-DNDPA	50.0	3.277	1104.5	0	0.000
2,2' DNDPA	50.0	4.931	1393.9	23803	0.000
2,4' DNDPA	50.0	7	1202.8	75.3	0.006
4NDPA	50.0	8.404	1947.7	129.2	0.007
2NDPA	50.0	9.478	3465.5	0	0.000
DPA	200.0	10.901	6673.2	885.5	0.053
N-NitrosoDPA	75.0	11.612	1658.3	0	0.000

Avg. % Stabilizer for Lot	0.947 0.947
---------------------------	-----------------------

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON **Avg. Tot. Stabilizers** **0.95** % %

Analyst Signature **Stable** YES **Unstable**

Lab. Supervisor Signature **Comments** **CATEGORY: A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

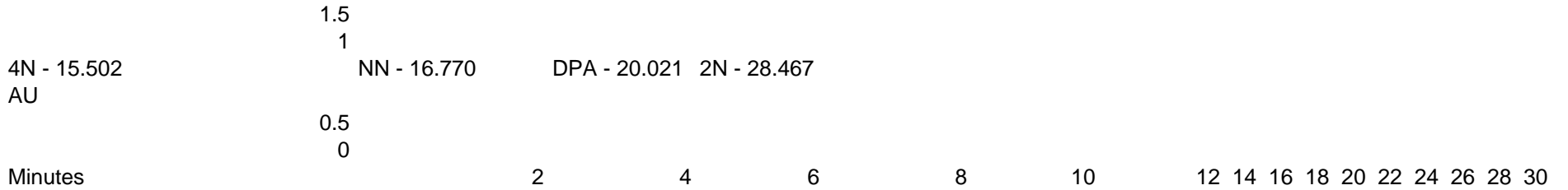
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86F070620				D533 / M6 propellant	
Date of analysis:				Date: 20 JAN 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	146.8	392.4	0.267
2,4-DNDPA	50.0	3.234	1100.8	30.2	0.003
2,2' DNDPA	50.0	4.775	3438.7	23152	0.000
2,4' DNDPA	50.0	6.709	1204.4	37.3	0.003
4NDPA	50.0	8.119	1979.8	183	0.009
2NDPA	50.0	9.168	3522.1	244.8	0.007
DPA	200.0	10.246	6855	368.7	0.022
N-NitrosoDPA	75.0	10.85	1686.4	0	0.000
				0.311	
				0.311	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.31 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

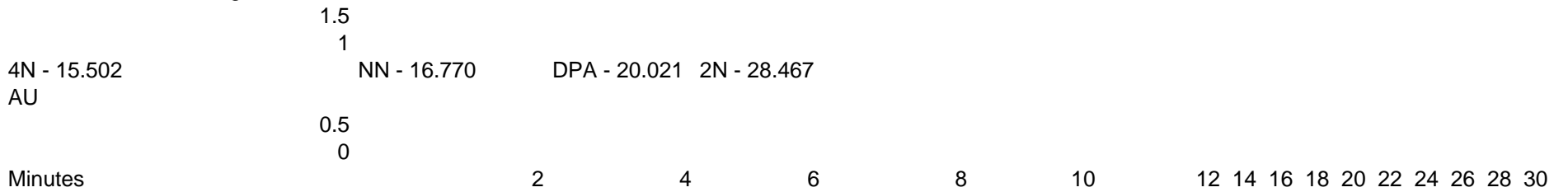
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88F070964				D533 / M6 propellant	
Date of analysis:				Date: 20 JAN 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	146.8	475.8	0.324
2,4-DNDPA	50.0	3.234	1100.8	0	0.000
2,2' DNDPA	50.0	4.775	3438.7	22537	0.000
2,4' DNDPA	50.0	6.709	1204.4	0	0.000
4NDPA	50.0	8.119	1979.8	74.6	0.004
2NDPA	50.0	9.168	3522.1	112.2	0.003
DPA	200.0	10.246	6855	0	0.000
N-NitrosoDPA	75.0	10.85	1686.4	870.3	0.000
				0.331	
				0.331	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.33 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070847				D533 / M6 propellant	
Date of analysis:				Date: 27 JAN 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.646	124.8	337.8	0.271
2,4-DNDPA	50.0	3.3	1134	0	0.000
2,2' DNDPA	50.0	4.962	3051.6	25117	0.000
2,4' DNDPA	50.0	7.064	1234.2	473.2	0.038
4NDPA	50.0	8.487	1994.9	168.8	0.008
2NDPA	50.0	9.572	3542.5	106.4	0.003
DPA	200.0	10.968	7016.9	802.5	0.046
N-NitrosoDPA	75.0	11.687	1728.4	0	0.000
				0.366	
				0.366	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.37 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070113				D533 / M6 propellant	
Date of analysis:				Date: 6 JAN 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.65	119.1	328.4	0.276
2,4-DNDPA	50.0	3.304	1019.8	16	0.002
2,2' DNDPA	50.0	4.943	1734.6	21955	0.000
2,4' DNDPA	50.0	7.018	1103.9	0	0.000
4NDPA	50.0	8.439	1782.5	66.8	0.004
2NDPA	50.0	9.513	3182.1	143.1	0.004
DPA	200.0	10.956	6219.8	790.9	0.051
N-NitrosoDPA	75.0	11.669	1532.4	0	0.000
				0.336	
				0.336	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.34 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

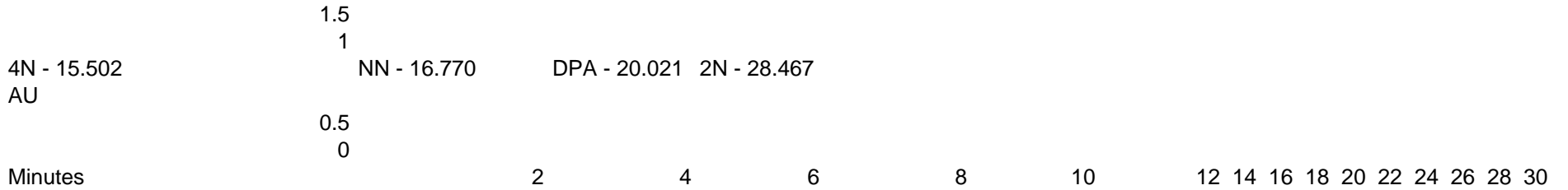
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070167		D533 / M6 propellant	
Date of analysis:		Date: 6 JAN 2012	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.65	119.1	308.2	0.259
2,4-DNDPA	50.0	3.304	1019.8	0	0.000
2,2' DNDPA	50.0	4.943	1734.6	23824	0.000
2,4' DNDPA	50.0	7.018	1103.9	404.1	0.037
4NDPA	50.0	8.439	1782.5	50.5	0.003
2NDPA	50.0	9.513	3182.1	79.6	0.003
DPA	200.0	10.956	6219.8	750.3	0.048
N-NitrosoDPA	75.0	11.669	1532.4	0	0.000

	0.349
Avg. % Stabilizer for Lot	0.349

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON	Avg. Tot. Stabilizers 0.35 %
Analyst Signature	Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86K070637				D533 / M6 propellant	
Date of analysis:				Date: 6 JAN 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.65	119.1	749.5	0.629
2,4-DNDPA	50.0	3.304	1019.8	361.7	0.035
2,2' DNDPA	50.0	4.943	1734.6	22955	0.000
2,4' DNDPA	50.0	7.018	1103.9	0	0.000
4NDPA	50.0	8.439	1782.5	43.8	0.002
2NDPA	50.0	9.513	3182.1	77.6	0.002
DPA	200.0	10.956	6219.8	729.3	0.047
N-NitrosoDPA	75.0	11.669	1532.4	0	0.000
				0.717	
				Avg. % Stabilizer for Lot 0.717	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.72 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

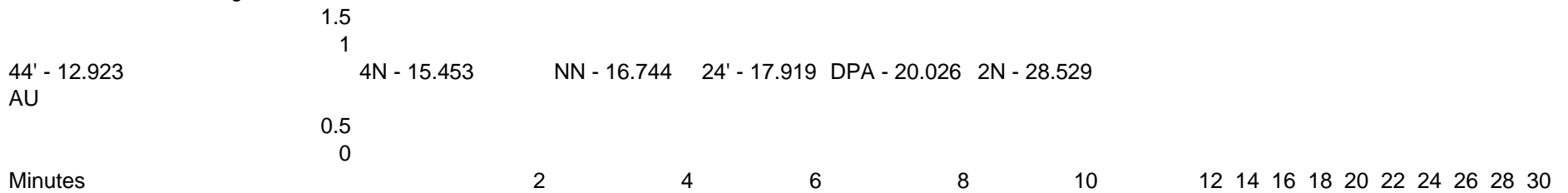
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89A070996 **D533 / M6 propellant**

Date of analysis: **Date: 6 JAN 2012**

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml ACN	
---	---	--

Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	Conc. %
4,4' DNDPA	50.0	0.65	119.1	447.4	0.376	
2,4-DNDPA	50.0	3.304	1019.8	0	0.000	
2,2' DNDPA	50.0	4.943	1734.6	22451	0.000	
2,4' DNDPA	50.0	7.018	1103.9	0	0.000	
4NDPA	50.0	8.439	1782.5	83.2	0.005	
2NDPA	50.0	9.513	3182.1	155.9	0.005	
DPA	200.0	10.956	6219.8	800.1	0.051	
N-NitrosoDPA	75.0	11.669	1532.4	0	0.000	

Avg. % Stabilizer for Lot	0.437
	0.437

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON **Avg. Tot. Stabilizers** **0.44** % %

Analyst Signature Stable YES Unstable

Lab. Supervisor Signature **Comments** **CATEGORY: A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070061				D533 / M6 propellant	
Date of analysis:				Date: 12 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.71	111	358.1	0.323
2,4-DNDPA	50.0	3.475	1001	79.1	0.008
2,2' DNDPA	50.0	5.325	95	18335	0.000
2,4' DNDPA	50.0	7.791	1061.3	83.2	0.008
4NDPA	50.0	9.345	1700.8	167.7	0.010
2NDPA	50.0	10.629	3041.2	330.5	0.011
DPA	200.0	12.152	5943.4	913.3	0.061
N-NitrosoDPA	75.0	13.034	1443.1	111.8	0.000
Avg. % Stabilizer for Lot					0.421
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.42 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81H070063				D533 / M6 propellant	
Date of analysis:				Date: 12 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.71	111	576.2	0.519
2,4-DNDPA	50.0	3.475	1001	15.6	0.002
2,2' DNDPA	50.0	5.325	95	26845	0.000
2,4' DNDPA	50.0	7.791	1061.3	0	0.000
4NDPA	50.0	9.345	1700.8	74.4	0.004
2NDPA	50.0	10.629	3041.2	150.4	0.005
DPA	200.0	12.152	5943.4	854.1	0.057
N-NitrosoDPA	75.0	13.034	1443.1	0	0.000
				0.587	
				Avg. % Stabilizer for Lot 0.587	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.59 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
		2 BAGS FOR Lot #
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82J070172				D533 / M6 propellant	
Date of analysis:				Date: 15 July 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.698	60	276.3	0.461
2,4-DNDPA	50.0	3.469	1060.3	0	0.000
2,2' DNDPA	50.0	5.327	112.7	25324	0.000
2,4' DNDPA	50.0	7.82	1131.9	0	0.000
4NDPA	50.0	9.358	1817.5	137.4	0.008
2NDPA	50.0	10.643	3250	121.1	0.004
DPA	200.0	12.15	6225.1	406.2	0.026
N-NitrosoDPA	75.0	13.037	1551.7	0	0.000
Avg. % Stabilizer for Lot					0.498 0.498
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.50 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82M070221				D533 / M6 propellant	
Date of analysis:				Date: 15 July 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.698	60	355.5 / 0.593
2,4-DNDPA	50.0		3.469	1060.3	0 / 0.000
2,2' DNDPA	50.0		5.327	112.7	21690 / 0.000
2,4' DNDPA	50.0		7.82	1131.9	0 / 0.000
4NDPA	50.0		9.358	1817.5	610.5 / 0.034
2NDPA	50.0		10.643	3250	170.9 / 0.005
DPA	200.0		12.15	6225.1	285.6 / 0.018
N-NitrosoDPA	75.0		13.037	1551.7	0 / 0.000
Avg. % Stabilizer for Lot					0.650 0.650
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

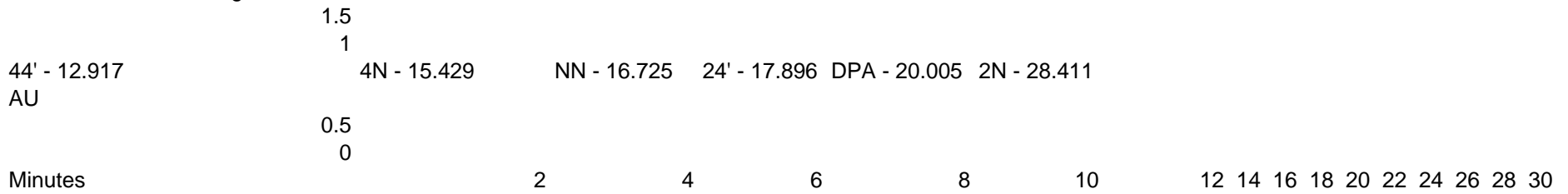
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

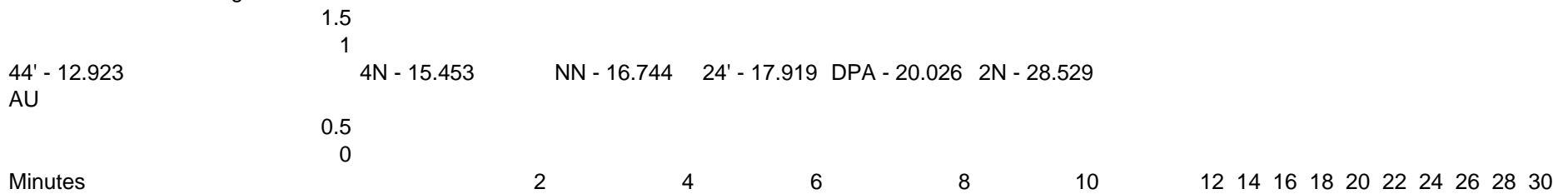
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81J070067				D533 / M6 propellant	
Date of analysis:				Date: 19 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.727	41.3	307.7	0.745
2,4-DNDPA	50.0	3.473	885.1	0	0.000
2,2' DNDPA	50.0	5.326	352.6	24476	0.000
2,4' DNDPA	50.0	7.805	948.1	0	0.000
4NDPA	50.0	9.354	1524.4	143.9	0.009
2NDPA	50.0	10.646	2712.4	121	0.004
DPA	200.0	12.156	5262.6	496.9	0.038
N-NitrosoDPA	75.0	13.045	1286	0	0.000
				0.797	
				0.797	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.80 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070110				D533 / M6 propellant	
Date of analysis:				Date: 27 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.694	112.8	437.7 0.388
2,4-DNDPA	50.0		3.477	942.8	0 0.000
2,2' DNDPA	50.0		5.339	77.4	22925 0.000
2,4' DNDPA	50.0		7.842	1020.3	0 0.000
4NDPA	50.0		9.392	1634.2	119.1 0.007
2NDPA	50.0		10.693	2956.2	134.9 0.005
DPA	200.0		12.201	5630.5	218.4 0.016
N-NitrosoDPA	75.0		13.103	1385.2	0 0.000
Avg. % Stabilizer for Lot					0.415 0.415
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.42 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070178				D533 / M6 propellant	
Date of analysis:				Date: 27 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.694	112.8	398.2	0.353
2,4-DNDPA	50.0	3.477	942.8	0	0.000
2,2' DNDPA	50.0	5.339	77.4	23169	0.000
2,4' DNDPA	50.0	7.842	1020.3	0	0.000
4NDPA	50.0	9.392	1634.2	111.1	0.007
2NDPA	50.0	10.693	2956.2	63.3	0.002
DPA	200.0	12.201	5630.5	349.6	0.025
N-NitrosoDPA	75.0	13.103	1385.2	0	0.000
				0.387	
				0.387	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.39 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

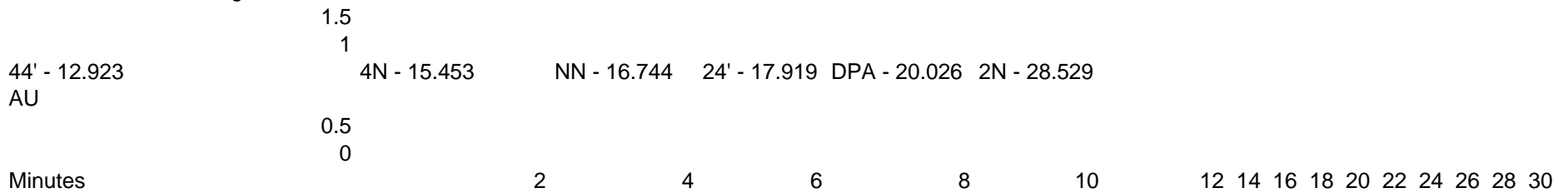
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83C070235				D533 / M6 propellant	
Date of analysis:				Date: 27 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.694	112.8	396 0.351
2,4-DNDPA	50.0		3.477	942.8	35.1 0.004
2,2' DNDPA	50.0		5.339	77.4	22444 0.000
2,4' DNDPA	50.0		7.842	1020.3	32.9 0.003
4NDPA	50.0		9.392	1634.2	231.7 0.014
2NDPA	50.0		10.693	2956.2	221.1 0.007
DPA	200.0		12.201	5630.5	417 0.030
N-NitrosoDPA	75.0		13.103	1385.2	0 0.000
Avg. % Stabilizer for Lot					0.409 0.409
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.41 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

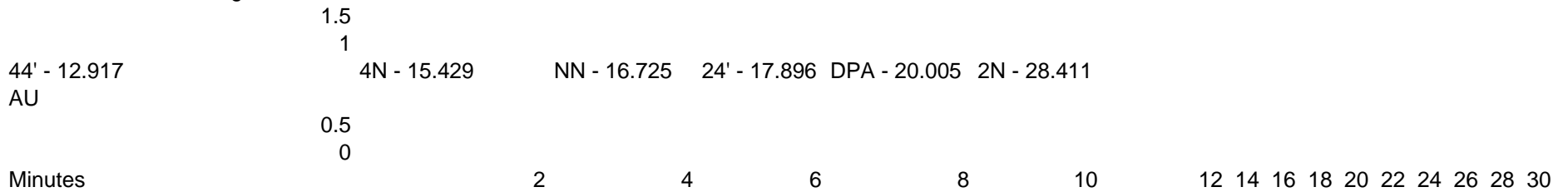
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

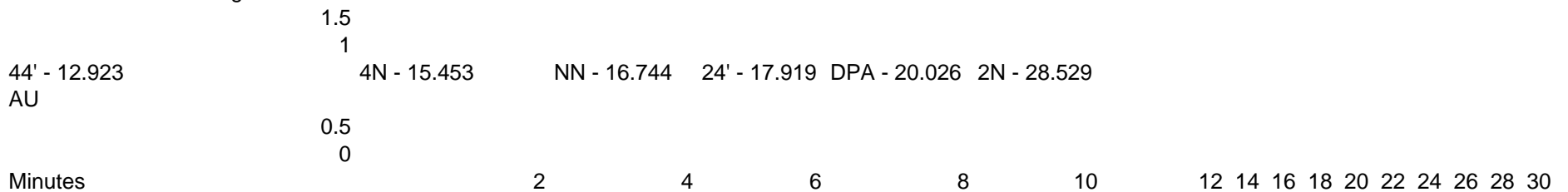
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

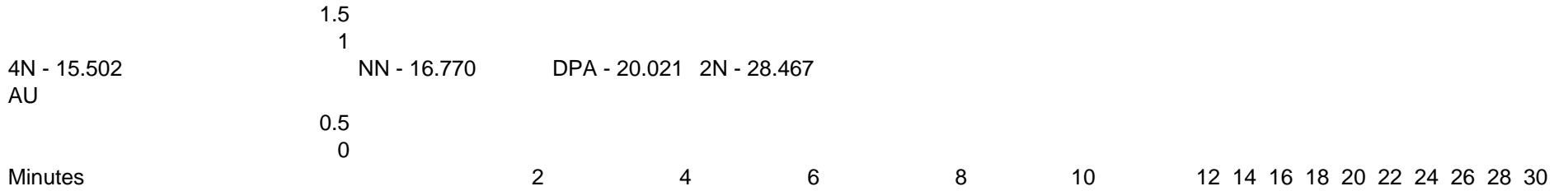
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



NN - 16.770 DPA - 20.021 2N - 28.467

Minutes

Peak Results

Name

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83C070236				D533 / M6 propellant	
Date of analysis:				Date: 27 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.694	112.8	437.9	0.388
2,4-DNDPA	50.0	3.477	942.8	0	0.000
2,2' DNDPA	50.0	5.339	77.4	21920	0.000
2,4' DNDPA	50.0	7.842	1020.3	0	0.000
4NDPA	50.0	9.392	1634.2	121.4	0.007
2NDPA	50.0	10.693	2956.2	109.7	0.004
DPA	200.0	12.201	5630.5	193.3	0.014
N-NitrosoDPA	75.0	13.103	1385.2	0	0.000
				0.413	
				0.413	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.41 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070274					D533 / M6 propellant	
Date of analysis:					Date: 27 JULY 2011	
Other Information M6 Propellant				Sample Data		Solvent
				#1	0.50 g	100 ml ACN
Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.694	112.8	622.1	0.552	
2,4-DNDPA	50.0	3.477	942.8	0	0.000	
2,2' DNDPA	50.0	5.339	77.4	22209	0.000	
2,4' DNDPA	50.0	7.842	1020.3	0	0.000	
4NDPA	50.0	9.392	1634.2	48.5	0.003	
2NDPA	50.0	10.693	2956.2	98.3	0.003	
DPA	200.0	12.201	5630.5	451.4	0.032	
N-NitrosoDPA	75.0	13.103	1385.2	0	0.000	
					0.590	
					0.590	
					Avg. % Stabilizer for Lot	
					0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D	
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.59 %		
Analyst Signature				Stable		YES Unstable
Lab. Supervisor Signature				Comments		CATEGORY: A
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81L070073				D533 / M6 propellant	
Date of analysis:				Date: 29 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.642	125.1	606.3	0.485
2,4-DNDPA	50.0	3.455	992.3	0	0.000
2,2' DNDPA	50.0	5.274	125.3	22452	0.000
2,4' DNDPA	50.0	7.702	1067.4	0	0.000
4NDPA	50.0	9.26	1688.8	34.3	0.002
2NDPA	50.0	10.547	3070.1	102.4	0.003
DPA	200.0	12.08	5796.8	430.9	0.030
N-NitrosoDPA	75.0	12.966	1456.1	0	0.000
				0.520	
				Avg. % Stabilizer for Lot 0.520	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.52 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070280				D533 / M6 propellant	
Date of analysis:				Date: 29 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.642	125.1	359.9	0.288
2,4-DNDPA	50.0	3.455	992.3	0	0.000
2,2' DNDPA	50.0	5.274	125.3	26335	0.000
2,4' DNDPA	50.0	7.702	1067.4	0	0.000
4NDPA	50.0	9.26	1688.8	208.1	0.012
2NDPA	50.0	10.547	3070.1	143.4	0.005
DPA	200.0	12.08	5796.8	379.8	0.026
N-NitrosoDPA	75.0	12.966	1456.1	0	0.000
				0.331	
				Avg. % Stabilizer for Lot	
				0.331	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Kisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					0.33 %
Lab. Supervisor Signature					Stable YES Unstable
					Comments
					CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86A070610				D533 / M6 propellant	
Date of analysis:				Date: 29 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.642	125.1	542.7	0.434
2,4-DNDPA	50.0	3.455	992.3	0	0.000
2,2' DNDPA	50.0	5.274	125.3	25057	0.000
2,4' DNDPA	50.0	7.702	1067.4	0	0.000
4NDPA	50.0	9.26	1688.8	59.6	0.004
2NDPA	50.0	10.547	3070.1	77.3	0.003
DPA	200.0	12.08	5796.8	541.2	0.037
N-NitrosoDPA	75.0	12.966	1456.1	0	0.000
Avg. % Stabilizer for Lot				0.477	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	Kisha Dickerson			Avg. Tot. Stabilizers 0.48 %	
Analyst Signature				Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

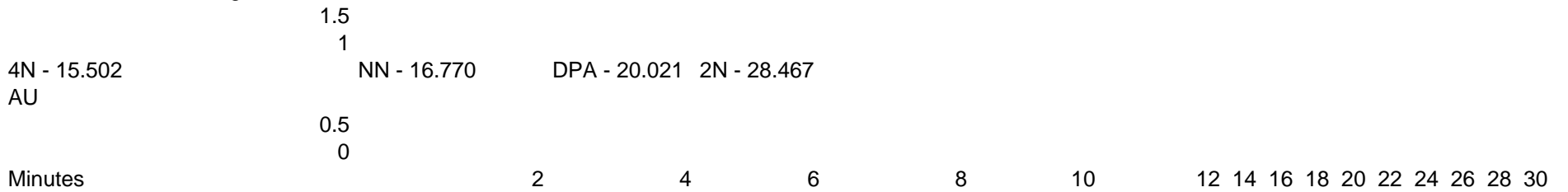
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



NN - 16.770 DPA - 20.021 2N - 28.467

Minutes
Peak Results
Name

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88H070966				D533 / M6 propellant	
Date of analysis:				Date: 29 JULY 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.642	125.1	600.3	0.480
2,4-DNDPA	50.0	3.455	992.3	0	0.000
2,2' DNDPA	50.0	5.274	125.3	27328	0.000
2,4' DNDPA	50.0	7.702	1067.4	0	0.000
4NDPA	50.0	9.26	1688.8	88.8	0.005
2NDPA	50.0	10.547	3070.1	85.2	0.003
DPA	200.0	12.08	5796.8	694.6	0.048
N-NitrosoDPA	75.0	12.966	1456.1	0	0.000
				0.536	
				Avg. % Stabilizer for Lot	
				0.536	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Kisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					0.54 % %
Lab. Supervisor Signature					Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable Comments CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85M070600				D533 / M6 propellant	
Date of analysis:				Date: 1 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	182.1	586.7	0.322
2,4-DNDPA	50.0	3.395	918.8	0	0.000
2,2' DNDPA	50.0	5.131	657.5	25200	0.000
2,4' DNDPA	50.0	7.419	1004.4	0	0.000
4NDPA	50.0	8.925	1615.1	224.7	0.014
2NDPA	50.0	10.096	2891.3	196.9	0.007
DPA	200.0	11.616	5658.2	185.9	0.013
N-NitrosoDPA	75.0	12.432	1385.3	0	0.000
				0.356	
				0.356	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

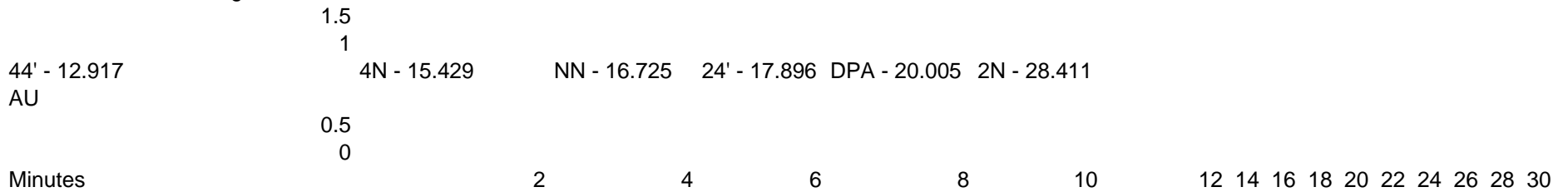
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

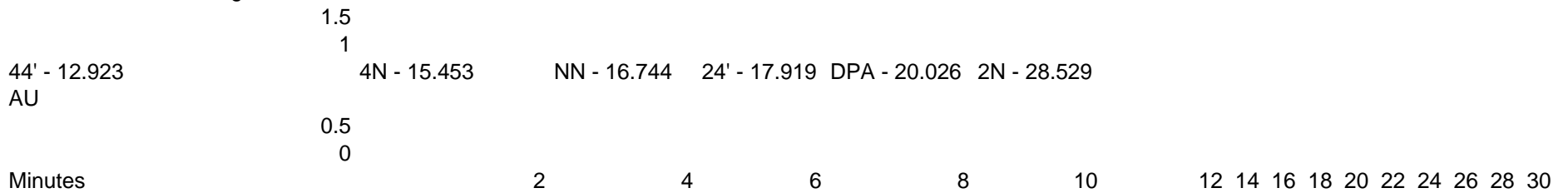
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

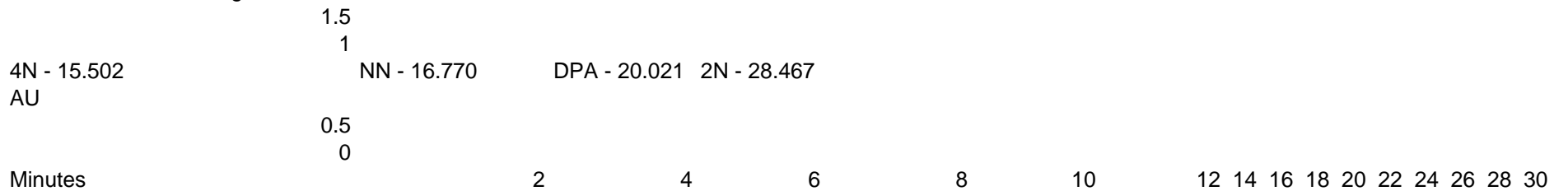
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

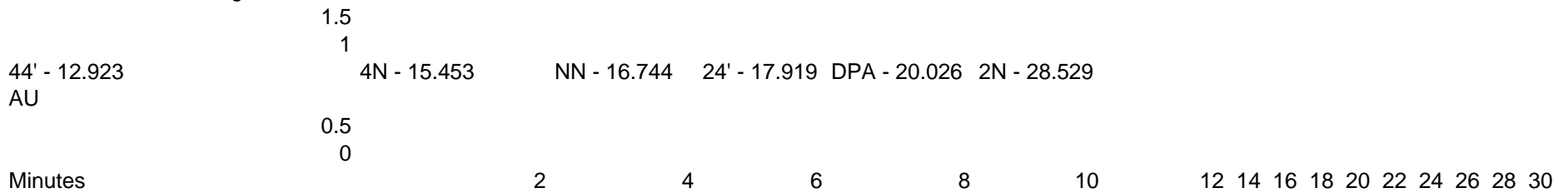
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83K070319				D533 / M6 propellant	
Date of analysis:				Date: 15 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.782	41.2	275.4	0.668
2,4-DNDPA	50.0	3.401	926.1	0	0.000
2,2' DNDPA	50.0	5.141	1554.2	22992	0.000
2,4' DNDPA	50.0	7.435	1019.1	0	0.000
4NDPA	50.0	8.937	1639.5	159.8	0.010
2NDPA	50.0	10.056	2924.6	174.6	0.006
DPA	200.0	11.627	5690.8	138.2	0.010
N-NitrosoDPA	75.0	12.44	1376.8	0	0.000
				0.694	
				0.694	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.69 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070516				D533 / M6 propellant	
Date of analysis:				Date: 15 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.782	41.2	564.1	1.369
2,4-DNDPA	50.0	3.401	926.1	0	0.000
2,2' DNDPA	50.0	5.141	1554.2	238134	0.000
2,4' DNDPA	50.0	7.435	1019.1	22.9	0.002
4NDPA	50.0	8.937	1639.5	187	0.011
2NDPA	50.0	10.056	2924.6	226	0.008
DPA	200.0	11.627	5690.8	198.8	0.014
N-NitrosoDPA	75.0	12.44	1376.8	0	0.000
				1.405	
				1.405	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86G070591				D533 / M6 propellant	
Date of analysis:				Date: 15 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.782	41.2	252.5	0.613
2,4-DNDPA	50.0	3.401	926.1	0	0.000
2,2' DNDPA	50.0	5.141	1554.2	240295	0.000
2,4' DNDPA	50.0	7.435	1019.1	0	0.000
4NDPA	50.0	8.937	1639.5	175.9	0.011
2NDPA	50.0	10.056	2924.6	168.3	0.006
DPA	200.0	11.627	5690.8	247.4	0.017
N-NitrosoDPA	75.0	12.44	1376.8	0	0.000
				0.647	
Avg. % Stabilizer for Lot				0.647	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.65 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

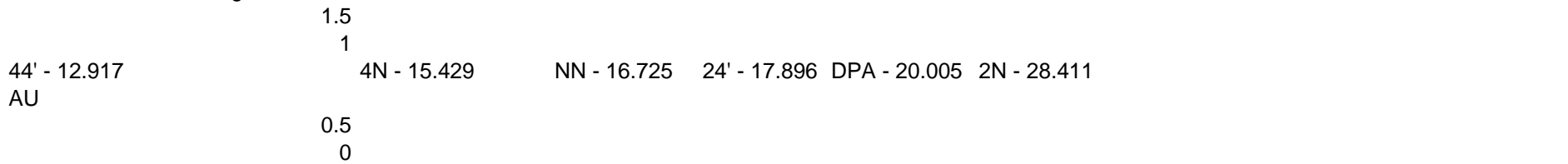
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.917	11923	709	0.015 micro gram
2	4N	15.429	119345	5819	0.07 micro gram
3	NN	16.725	43675	1982	0.061 micro gram
4	24'	17.896	25154	1151	0.014 micro gram
5	DPA	20.005	189585	7757	0.21 micro gram
6	22'	20.9			
7	24	22.4			
8	2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

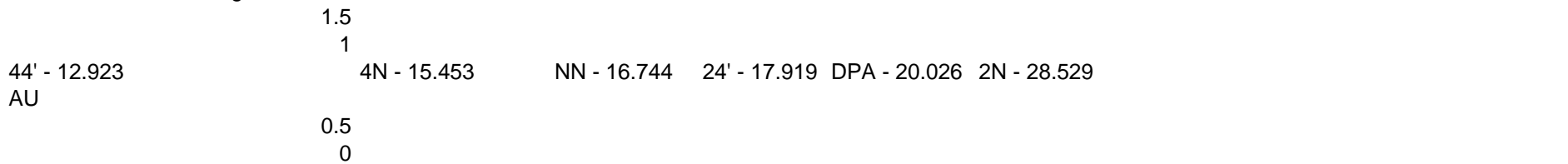
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.923	14984	870	0.018 micro gram
2	4N	15.453	121334	6049	0.072 micro gram
3	NN	16.744	54324	2521	0.075 micro gram
4	24'	17.919	33482	1475	0.018 micro gram
5	DPA	20.026	136705	5741	0.152 micro gram
6	22'	20.9			
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87F070721				D533 / M6 propellant	
Date of analysis:				Date: 15 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Conc. ppm			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.782	41.2	236.5	0.574
2,4-DNDPA	50.0	3.401	926.1	0	0.000
2,2' DNDPA	50.0	5.141	1554.2	21294	0.000
2,4' DNDPA	50.0	7.435	1019.1	0	0.000
4NDPA	50.0	8.937	1639.5	0	0.000
2NDPA	50.0	10.056	2924.6	94.9	0.003
DPA	200.0	11.627	5690.8	0	0.000
N-NitrosoDPA	75.0	12.44	1376.8	0	0.000
				0.577	
				0.577	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.58 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89D071040				D533 / M6 propellant	
Date of analysis:				Date: 15 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.782	41.2	158.3	0.384
2,4-DNDPA	50.0	3.401	926.1	0	0.000
2,2' DNDPA	50.0	5.141	1554.2	2368	0.000
2,4' DNDPA	50.0	7.435	1019.1	0	0.000
4NDPA	50.0	8.937	1639.5	10.8	0.001
2NDPA	50.0	10.056	2924.6	9.8	0.000
DPA	200.0	11.627	5690.8	13.8	0.001
N-NitrosoDPA	75.0	12.44	1376.8	0	0.000
				0.386	
				0.386	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.39 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070455				D533 / M6 propellant	
Date of analysis:				Date: 18 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.868	20.3	114.9	0.566
2,4-DNDPA	50.0	3.394	927.8	0	0.000
2,2' DNDPA	50.0	5.138	1678.8	1994.2	0.000
2,4' DNDPA	50.0	7.453	1016.3	0	0.000
4NDPA	50.0	8.966	1642.7	10.2	0.001
2NDPA	50.0	10.133	2928	9.7	0.000
DPA	200.0	11.671	5738.6	12.8	0.001
N-NitrosoDPA	75.0	12.493	1377.9	0	0.000
				0.568	
				Avg. % Stabilizer for Lot	
				0.568	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Kisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					0.57 % %
Lab. Supervisor Signature					Stable YES Unstable Comments CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

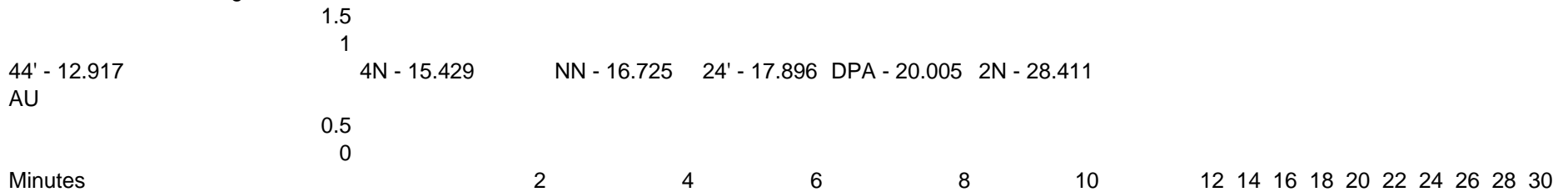
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

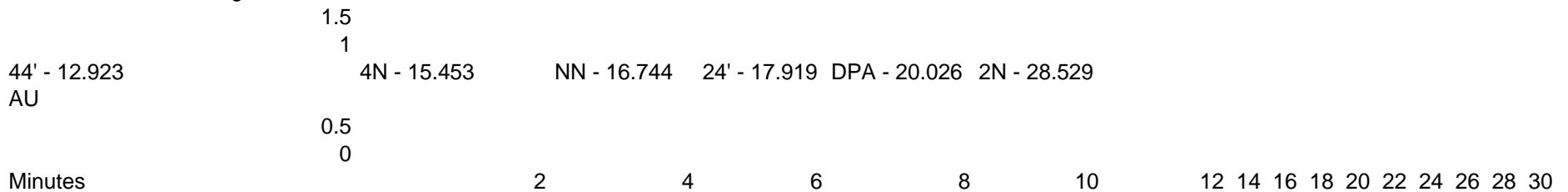
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86J070623				D533 / M6 propellant	
Date of analysis:				Date: 18 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	20.3	58.5
2,4-DNDPA	50.0		3.394	927.8	0
2,2' DNDPA	50.0		5.138	1678.8	23300
2,4' DNDPA	50.0		7.453	1016.3	0
4NDPA	50.0		8.966	1642.7	140.5
2NDPA	50.0		10.133	2928	181.1
DPA	200.0		11.671	5738.6	343.4
N-NitrosoDPA	75.0		12.493	1377.9	0
Avg. % Stabilizer for Lot					0.327 0.327
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86J070623				D533 / M6 propellant	
Date of analysis:				Date: 18 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	20.3	64.9
2,4-DNDPA	50.0		3.394	927.8	0
2,2' DNDPA	50.0		5.138	1678.8	23289
2,4' DNDPA	50.0		7.453	1016.3	0
4NDPA	50.0		8.966	1642.7	150.7
2NDPA	50.0		10.133	2928	178.5
DPA	200.0		11.671	5738.6	313.5
N-NitrosoDPA	75.0		12.493	1377.9	0
Avg. % Stabilizer for Lot					0.357
0.357					
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND884J070444				D533 / M6 propellant	
Date of analysis:				Date: 18 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	20.3	171.9 0.847
2,4-DNDPA	50.0		3.394	927.8	0 0.000
2,2' DNDPA	50.0		5.138	1678.8	24084 0.000
2,4' DNDPA	50.0		7.453	1016.3	0 0.000
4NDPA	50.0		8.966	1642.7	190.9 0.012
2NDPA	50.0		10.133	2928	185.4 0.006
DPA	200.0		11.671	5738.6	168.3 0.012
N-NitrosoDPA	75.0		12.493	1377.9	0 0.000
				0.876	
				0.876	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.88 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

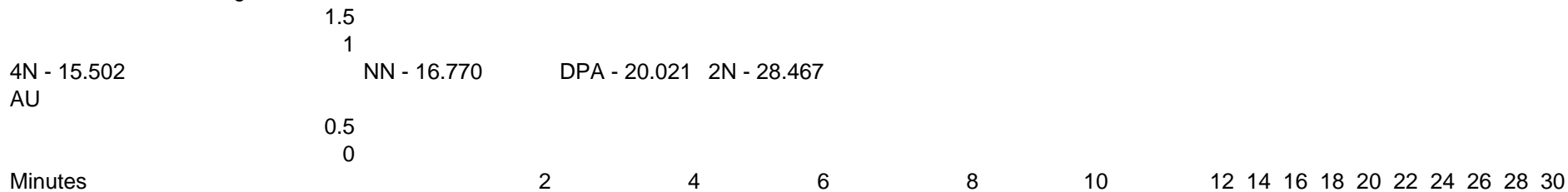
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88K070990				D533 / M6 propellant	
Date of analysis:				Date: 18 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.868	20.3	58.1
2,4-DNDPA	50.0		3.394	927.8	0
2,2' DNDPA	50.0		5.138	1678.8	23168
2,4' DNDPA	50.0		7.453	1016.3	0
4NDPA	50.0		8.966	1642.7	179.3
2NDPA	50.0		10.133	2928	169.9
DPA	200.0		11.671	5738.6	342.5
N-NitrosoDPA	75.0		12.493	1377.9	0
Avg. % Stabilizer for Lot					0.327 0.327
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

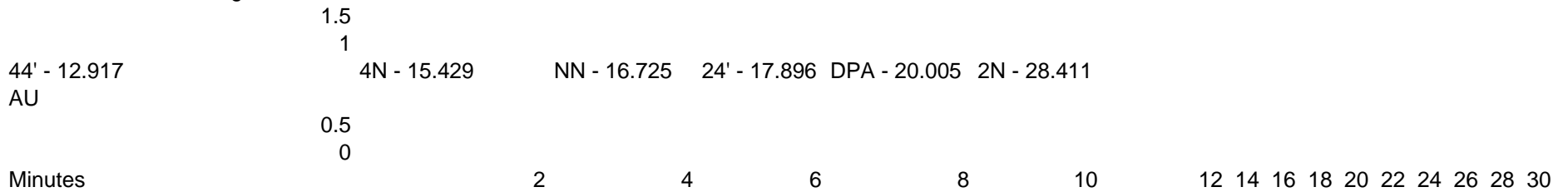
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

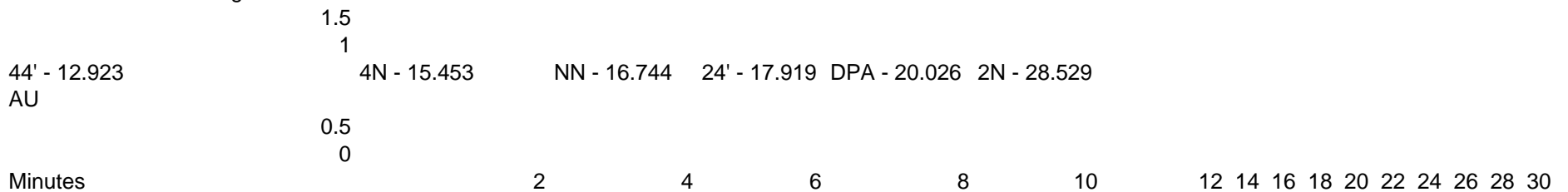
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070277					D533 / M6 propellant	
Date of analysis:					Date: 8 JUNE 2012	
Other Information M6 Propellant				Sample Data		Solvent
				#1	0.50 g	100 ml ACN
Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.856	194.2	486.1	0.250	
2,4-DNDPA	50.0	3.381	927.9	0	0.000	
2,2' DNDPA	50.0	5.088	976	38348	0.000	
2,4' DNDPA	50.0	7.31	1013.8	0	0.000	
4NDPA	50.0	8.79	1635.4	242.5	0.015	
2NDPA	50.0	9.937	2921.2	353.2	0.012	
DPA	200.0	11.428	5718.2	830	0.058	
N-NitrosoDPA	75.0	12.218	1381.3	0	0.000	
					0.335	
					0.335	
					0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D	
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.34 % %		
Analyst Signature				Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84CY70329				D533 / M6 propellant	
Date of analysis:				Date: 8 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	194.2	487.7	0.251
2,4-DNDPA	50.0	3.381	927.9	0	0.000
2,2' DNDPA	50.0	5.088	976	38090	0.000
2,4' DNDPA	50.0	7.31	1013.8	0	0.000
4NDPA	50.0	8.79	1635.4	201.6	0.012
2NDPA	50.0	9.937	2921.2	324.2	0.011
DPA	200.0	11.428	5718.2	853.1	0.060
N-NitrosoDPA	75.0	12.218	1381.3	0	0.000
Avg. % Stabilizer for Lot					0.334 0.334
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85A070506				D533 / M6 propellant	
Date of analysis:				Date: 8 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	194.2	479.6	0.247
2,4-DNDPA	50.0	3.381	927.9	0	0.000
2,2' DNDPA	50.0	5.088	976	40728	0.000
2,4' DNDPA	50.0	7.31	1013.8	0	0.000
4NDPA	50.0	8.79	1635.4	369.9	0.023
2NDPA	50.0	9.937	2921.2	420.5	0.014
DPA	200.0	11.428	5718.2	625.5	0.044
N-NitrosoDPA	75.0	12.218	1381.3	0	0.000
				0.328	
				0.328	
				Avg. % Stabilizer for Lot	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070448				D533 / M6 propellant	
Date of analysis:				Date: 1 Mar 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	13.8	97.7	0.708
2,4-DNDPA	50.0	3.42	982.9	0	0.000
2,2' DNDPA	50.0	5.182	2038.4	23346	0.000
2,4' DNDPA	50.0	7.465	1060.4	0	0.000
4NDPA	50.0	8.991	1708.9	47.8	0.003
2NDPA	50.0	10.17	3062.7	91.8	0.003
DPA	200.0	11.707	6061.6	816.4	0.054
N-NitrosoDPA	75.0	12.518	1461.9	0	0.000
				0.768	
				0.768	
				0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D	
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.77 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

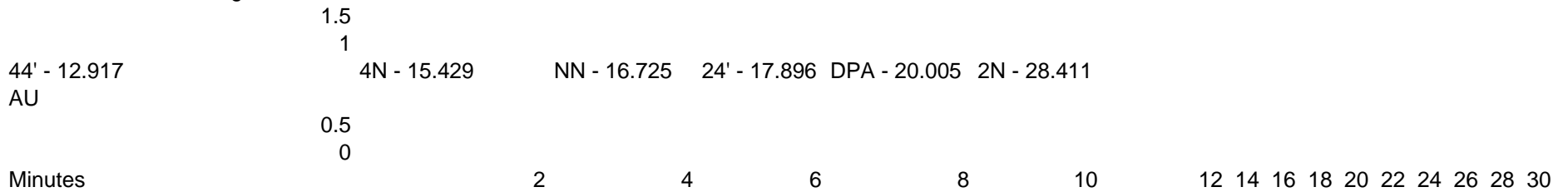
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

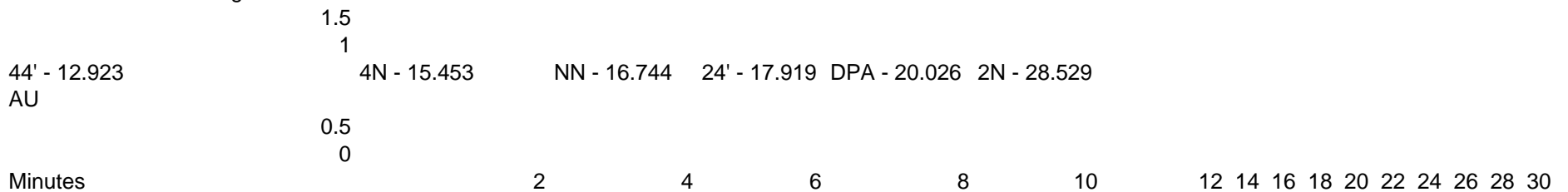
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

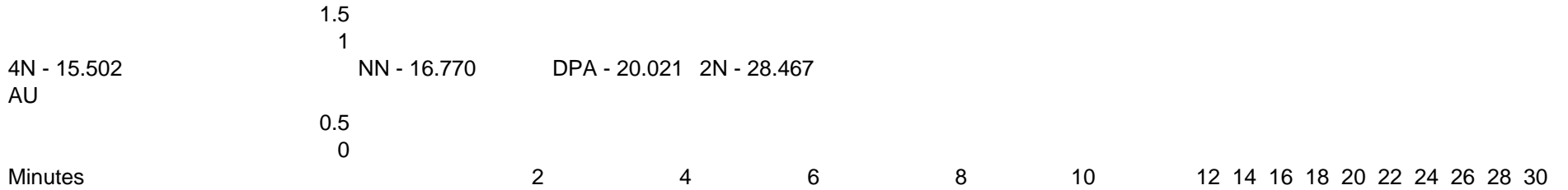
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070522		D533 / M6 propellant	
Date of analysis:		Date: 1 Mar 2012	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.872	13.8	102.3	0.741
2,4-DNDPA	50.0	3.42	982.9	0	0.000
2,2' DNDPA	50.0	5.182	2038.4	25354	0.000
2,4' DNDPA	50.0	7.465	1060.4	0	0.000
4NDPA	50.0	8.991	1708.9	81.5	0.005
2NDPA	50.0	10.17	3062.7	116.4	0.004
DPA	200.0	11.707	6061.6	859.4	0.057
N-NitrosoDPA	75.0	12.518	1461.9	0	0.000

0.807	
Avg. % Stabilizer for Lot	0.807

0.30% or more is Stability Code A
 0.20% - 0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Takisha Dickerson	Avg. Tot. Stabilizers 0.81 %
Analyst Signature	Stable YES Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84F070435						D533 / M6 propellant	
Date of analysis:						Date: 20 MAR 2012	
Other Information M6 Propellant				Sample Data #1		Solvent 0.50 g 100 ml ACN	
Standards (ERG-006)						Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1		Intg. Area	Conc. %	
4,4' DNDPA	50.0		0.884	57.2		258.7	0.452
2,4-DNDPA	50.0		3.358	857.8		0	0.000
2,2' DNDPA	50.0		5.115	1483.6		27798	0.000
2,4' DNDPA	50.0		7.41	936.2		0	0.000
4NDPA	50.0		8.935	1514.4		140.5	0.009
2NDPA	50.0		10.186	2735.1		88.9	0.003
DPA	200.0		11.549	5375.1		622.8	0.046
N-NitrosoDPA	75.0		12.503	1312.3		0	0.000
Avg. % Stabilizer for Lot						0.511	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Kisha Dickerson				Avg. Tot. Stabilizers 0.51 %			
Analyst Signature				Stable YES Unstable			
Lab. Supervisor Signature				Comments CATEGORY: A			
				Actions to be Taken			

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81E070226				D533 / M6 propellant	
Date of analysis:				Date: 20 MAR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.884	57.2	236.9 0.414
2,4-DNDPA	50.0		3.358	857.8	60.2 0.007
2,2' DNDPA	50.0		5.115	1483.6	35918 0.000
2,4' DNDPA	50.0		7.41	936.2	100.5 0.011
4NDPA	50.0		8.935	1514.4	490.2 0.032
2NDPA	50.0		10.186	2735.1	234.9 0.009
DPA	200.0		11.549	5375.1	823.9 0.061
N-NitrosoDPA	75.0		12.503	1312.3	64.3 0.000
				0.534	
				Avg. % Stabilizer for Lot 0.534	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson				Avg. Tot. Stabilizers 0.53 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070070				D533 / M6 propellant	
Date of analysis:				Date: 20 MAR 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.884	57.2	135.8 0.237
2,4-DNDPA	50.0		3.358	857.8	45 0.005
2,2' DNDPA	50.0		5.115	1483.6	36439 0.000
2,4' DNDPA	50.0		7.41	936.2	53.8 0.006
4NDPA	50.0		8.935	1514.4	359.9 0.024
2NDPA	50.0		10.186	2735.1	440.9 0.016
DPA	200.0		11.549	5375.1	839.1 0.062
N-NitrosoDPA	75.0		12.503	1312.3	35.1 0.000
				0.351	
				Avg. % Stabilizer for Lot 0.351	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.35 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

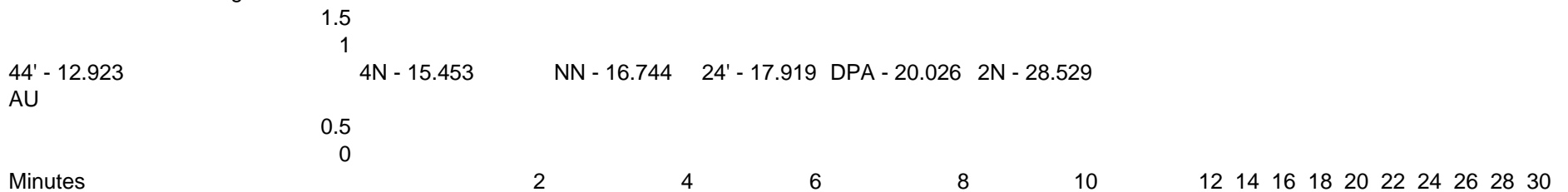
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070011				D533 / M6 propellant	
Date of analysis:				Date: 22 March 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.897	14.6	40.4	0.277
2,4-DNDPA	50.0	3.327	870.9	0	0.000
2,2' DNDPA	50.0	5.054	688.7	29012	0.000
2,4' DNDPA	50.0	7.295	945.9	0	0.000
4NDPA	50.0	8.792	1528.5	144	0.009
2NDPA	50.0	10.019	2755.3	103.4	0.004
DPA	200.0	11.357	5392.9	588.9	0.044
N-NitrosoDPA	75.0	12.286	1332.2	0	0.000
0.334					
Avg. % Stabilizer for Lot					0.334
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84H070440				D533 / M6 propellant	
Date of analysis:				Date: 22 March 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.897	14.6	68.1	0.466
2,4-DNDPA	50.0	3.327	870.9	0	0.000
2,2' DNDPA	50.0	5.054	688.7	23150	0.000
2,4' DNDPA	50.0	7.295	945.9	0	0.000
4NDPA	50.0	8.792	1528.5	52.2	0.003
2NDPA	50.0	10.019	2755.3	93.8	0.003
DPA	200.0	11.357	5392.9	775.1	0.057
N-NitrosoDPA	75.0	12.286	1332.2	0	0.000
				0.531	
				0.531	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.53 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070446		D533 / M6 propellant	
Date of analysis:		Date: 22 March 2012	
Other Information M6 Propellant		Sample Data #1	0.50 g
		100 ml	Solvent ACN

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.897	14.6	38.2	0.262
2,4-DNDPA	50.0	3.327	870.9	15.2	0.002
2,2' DNDPA	50.0	5.054	688.7	23462	0.000
2,4' DNDPA	50.0	7.295	945.9	0	0.000
4NDPA	50.0	8.792	1528.5	78.1	0.005
2NDPA	50.0	10.019	2755.3	141.6	0.005
DPA	200.0	11.357	5392.9	800.8	0.059
N-NitrosoDPA	75.0	12.286	1332.2	0	0.000

Avg. % Stabilizer for Lot	0.333
	0.333

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Takisha Dickerson	Avg. Tot. Stabilizers 0.33 % %
Analyst Signature	Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070521				D533 / M6 propellant	
Date of analysis:				Date: 22 March 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.897	14.6	173.2	1.186
2,4-DNDPA	50.0	3.327	870.9	0	0.000
2,2' DNDPA	50.0	5.054	688.7	36937	0.000
2,4' DNDPA	50.0	7.295	945.9	0	0.000
4NDPA	50.0	8.792	1528.5	289.6	0.019
2NDPA	50.0	10.019	2755.3	277.9	0.010
DPA	200.0	11.357	5392.9	503.4	0.037
N-NitrosoDPA	75.0	12.286	1332.2	0	0.000
				1.253	
				1.253	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.25 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070069		D533 / M6 propellant	
Date of analysis:		Date: 27 March 2012	
Other Information M6 Propellant		Sample Data #1	0.50 g
		100 ml	Solvent ACN

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.878	19.8	87.5	0.442
2,4-DNDPA	50.0	3.322	924.1	0	0.000
2,2' DNDPA	50.0	5.027	1701.2	34168	0.000
2,4' DNDPA	50.0	7.235	1011.9	0	0.000
4NDPA	50.0	8.682	1635.9	82.9	0.005
2NDPA	50.0	9.862	2949.9	167.1	0.006
DPA	200.0	11.151	5802.7	1267.2	0.087
N-NitrosoDPA	75.0	12.065	1383.7	0	0.000

Avg. % Stabilizer for Lot	0.540
	0.540

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Takisha Dickerson	Avg. Tot. Stabilizers 0.54 % %
Analyst Signature	Stable YES Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

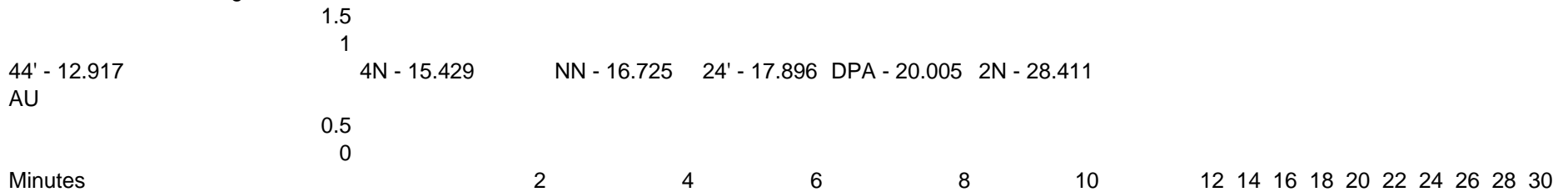
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

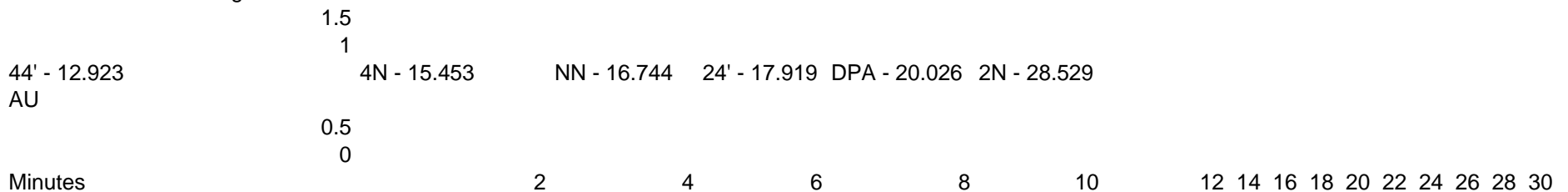
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88K070971					D533 / M6 propellant		
Date of analysis:					Date: 27 March 2012		
Other Information M6 Propellant				Sample Data #1		Solvent 100 ml ACN	
Standards (ERG-006)				Sample #			
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %		
4,4' DNDPA	50.0	0.878	19.8		61.4	0.310	
2,4-DNDPA	50.0	3.322	924.1		38.2	0.004	
2,2' DNDPA	50.0	5.027	1701.2		46802	0.000	
2,4' DNDPA	50.0	7.235	1011.9		38.9	0.004	
4NDPA	50.0	8.682	1635.9		232.6	0.014	
2NDPA	50.0	9.862	2949.9		408.4	0.014	
DPA	200.0	11.151	5802.7		3226.1	0.222	
N-NitrosoDPA	75.0	12.065	1383.7		59	0.000	
					0.569		
					0.569		
					0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D		
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.57 % %			
Analyst Signature				Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>			
Lab. Supervisor Signature				Comments CATEGORY: A			
				Actions to be Taken			

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

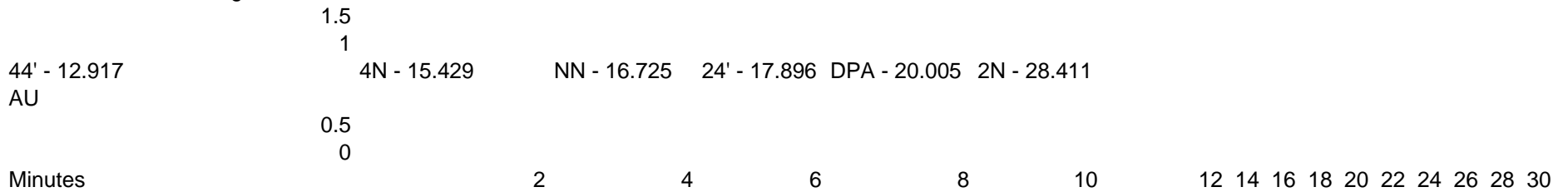
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

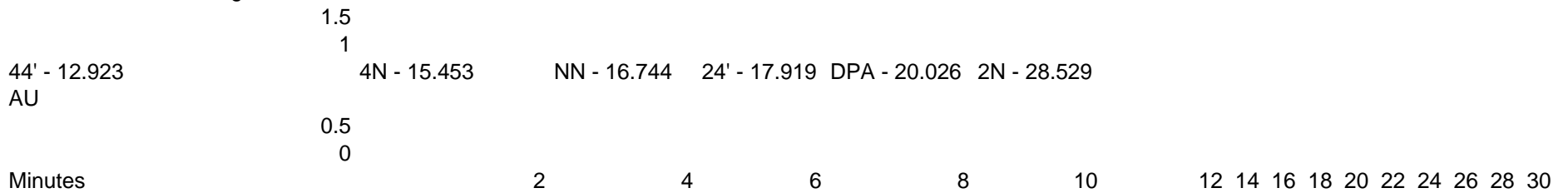
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

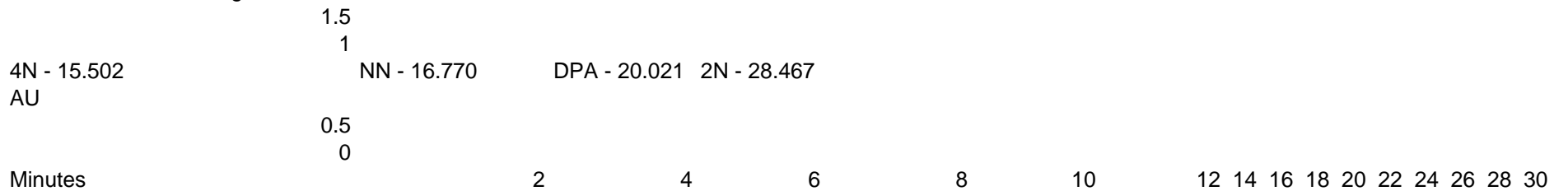
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84H070442		D533 / M6 propellant	
Date of analysis:		Date: 11 MAY 2012	
Other Information M6 Propellant		Sample Data #1	0.50 g
		100 ml	Solvent ACN

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.907	11.8	341.2	2.892
2,4-DNDPA	50.0	3.565	1102.1	15.8	0.001
2,2' DNDPA	50.0	5.396	1054.2	27587	0.000
2,4' DNDPA	50.0	7.754	1190.9	0	0.000
4NDPA	50.0	9.322	1928	118.2	0.006
2NDPA	50.0	10.525	3439.2	215.5	0.006
DPA	200.0	12.096	6684.3	633.5	0.038
N-NitrosoDPA	75.0	12.929	1652.1		0.000

	2.943
Avg. % Stabilizer for Lot	2.943

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Takisha Dickerson	Avg. Tot. Stabilizers 2.94 % %
Analyst Signature	Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>
Lab. Supervisor Signature	Comments CATEGORY: A
Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

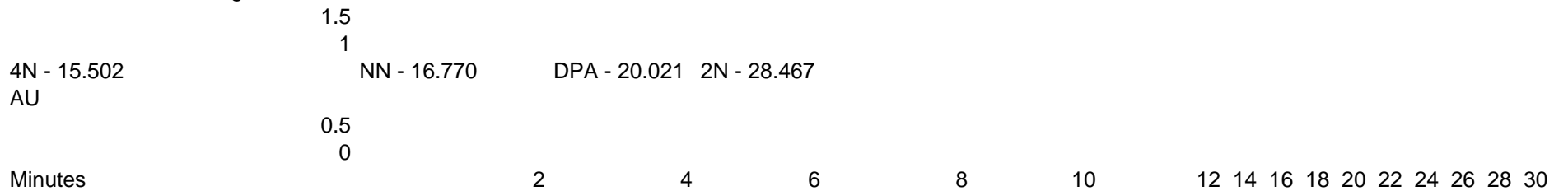
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85J070595					D533 / M6 propellant	
Date of analysis:					Date: 11 MAY 2012	
Other Information M6 Propellant				Sample Data		Solvent
				#1		0.50 g 100 ml ACN
Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.907	11.8	205.9	1.745	
2,4-DNDPA	50.0	3.565	1102.1	0	0.000	
2,2' DNDPA	50.0	5.396	1054.2	25842	0.000	
2,4' DNDPA	50.0	7.754	1190.9	0	0.000	
4NDPA	50.0	9.322	1928	123.2	0.006	
2NDPA	50.0	10.525	3439.2	133	0.004	
DPA	200.0	12.096	6684.3	494.3	0.030	
N-NitrosoDPA	75.0	12.929	1652.1		0.000	
					1.785	
Avg. % Stabilizer for Lot					1.785	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D						
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.78 % %		
Analyst Signature				Stable YES Unstable		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83A070227				D533 / M6 propellant	
Date of analysis:				Date: 25 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	98.8	234	0.237
2,4-DNDPA	50.0	3.406	1093.5	40.9	0.004
2,2' DNDPA	50.0	5.151	5119.8	28507	0.000
2,4' DNDPA	50.0	7.443	1205.3	36.9	0.003
4NDPA	50.0	8.966	1967.7	315.6	0.016
2NDPA	50.0	10.176	3479.6	302.4	0.009
DPA	200.0	11.679	6900.6	602.9	0.035
N-NitrosoDPA	75.0	12.492	1626.4		0.000
0.303					
Avg. % Stabilizer for Lot					0.303
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.30 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070452				D533 / M6 propellant	
Date of analysis:				Date: 25 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	98.8	240.1	0.243
2,4-DNDPA	50.0	3.406	1093.5	0	0.000
2,2' DNDPA	50.0	5.151	5119.8	33851	0.000
2,4' DNDPA	50.0	7.443	1205.3	0	0.000
4NDPA	50.0	8.966	1967.7	179.9	0.009
2NDPA	50.0	10.176	3479.6	296.9	0.009
DPA	200.0	11.679	6900.6	1122.2	0.065
N-NitrosoDPA	75.0	12.492	1626.4		0.000
				0.326	
				0.326	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070458						D533 / M6 propellant	
Date of analysis:						Date: 25 MAY 2012	
Other Information M6 Propellant				Sample Data #1		0.50 g	Solvent 100 ml ACN
Standards (ERG-006)						Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1		Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.88	98.8		234.1	0.237	
2,4-DNDPA	50.0	3.406	1093.5		27.7	0.003	
2,2' DNDPA	50.0	5.151	5119.8		32671	0.000	
2,4' DNDPA	50.0	7.443	1205.3		31.6	0.003	
4NDPA	50.0	8.966	1967.7		283.3	0.014	
2NDPA	50.0	10.176	3479.6		295.5	0.008	
DPA	200.0	11.679	6900.6		994.8	0.058	
N-NitrosoDPA	75.0	12.492	1626.4			0.000	
Avg. % Stabilizer for Lot						0.323 0.323	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.32 %			
Analyst Signature				Stable YES Unstable			
Lab. Supervisor Signature				Comments CATEGORY: A			
				Actions to be Taken			

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

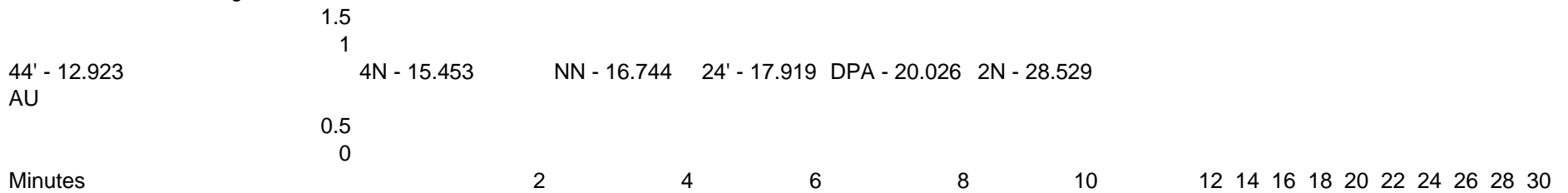
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070019				D533 / M6 propellant	
Date of analysis:				Date: 29 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	235.9	525.7	0.223
2,4-DNDPA	50.0	3.398	913.2	0	0.000
2,2' DNDPA	50.0	5.133	1007.2	37577	0.000
2,4' DNDPA	50.0	7.409	1002.4	0	0.000
4NDPA	50.0	8.917	1612.8	186.9	0.012
2NDPA	50.0	10.112	2882.2	282.1	0.010
DPA	200.0	11.607	5642.3	917.9	0.065
N-NitrosoDPA	75.0	12.414	1351.4		0.000
				0.309	
				0.309	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.31 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81L070072				D533 / M6 propellant	
Date of analysis:				Date: 29 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	235.9	624.2	0.265
2,4-DNDPA	50.0	3.398	913.2	0	0.000
2,2' DNDPA	50.0	5.133	1007.2	37338	0.000
2,4' DNDPA	50.0	7.409	1002.4	0	0.000
4NDPA	50.0	8.917	1612.8	156.8	0.010
2NDPA	50.0	10.112	2882.2	297.6	0.010
DPA	200.0	11.607	5642.3	1100.9	0.078
N-NitrosoDPA	75.0	12.414	1351.4		0.000
				0.363	
				0.363	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83C070233				D533 / M6 propellant	
Date of analysis:				Date: 29 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	235.9	638.7	0.271
2,4-DNDPA	50.0	3.398	913.2	0	0.000
2,2' DNDPA	50.0	5.133	1007.2	24229	0.000
2,4' DNDPA	50.0	7.409	1002.4	0	0.000
4NDPA	50.0	8.917	1612.8	264.3	0.016
2NDPA	50.0	10.112	2882.2	274.7	0.010
DPA	200.0	11.607	5642.3	286.4	0.020
N-NitrosoDPA	75.0	12.414	1351.4		0.000
				0.317	
				0.317	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.32 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

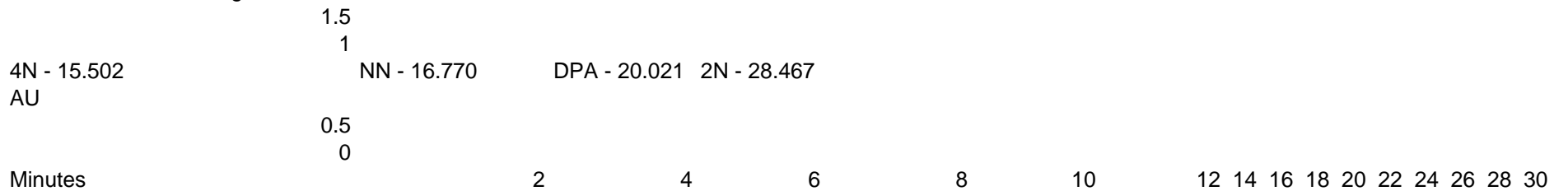
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070511				D533 / M6 propellant	
Date of analysis:				Date: 29 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	235.9	579.9	0.246
2,4-DNDPA	50.0	3.398	913.2	0	0.000
2,2' DNDPA	50.0	5.133	1007.2	24643	0.000
2,4' DNDPA	50.0	7.409	1002.4	0	0.000
4NDPA	50.0	8.917	1612.8	83.9	0.005
2NDPA	50.0	10.112	2882.2	137.5	0.005
DPA	200.0	11.607	5642.3	703.5	0.050
N-NitrosoDPA	75.0	12.414	1351.4		0.000
				0.306	
				0.306	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.31 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84G070326				D533 / M6 propellant	
Date of analysis:				Date: 3 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.867	104.4	324.4	0.311
2,4-DNDPA	50.0	3.335	1105.6	0	0.000
2,2' DNDPA	50.0	5.007	4986.7	23068	0.000
2,4' DNDPA	50.0	7.137	1206.9	0	0.000
4NDPA	50.0	8.593	1969.2	87.1	0.004
2NDPA	50.0	9.688	3527.8	151.4	0.004
DPA	200.0	11.153	7041.6	785.8	0.045
N-NitrosoDPA	75.0	11.897	1704.5		0.000
				0.364	
				0.364	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.36 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

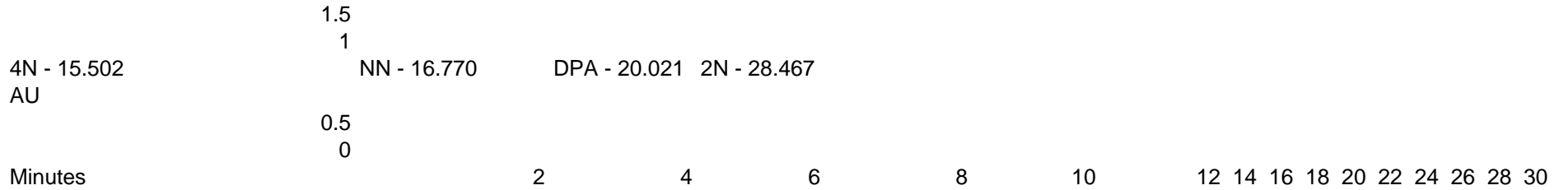
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

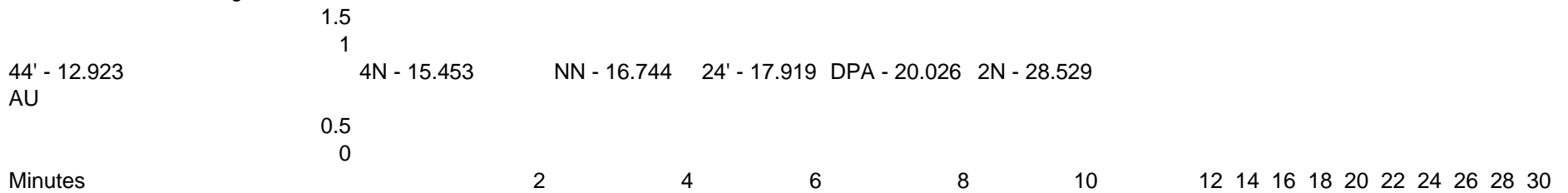
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84G070439				D533 / M6 propellant	
Date of analysis:				Date: 31 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	324.5	736.3	0.227
2,4-DNDPA	50.0	3.397	930.9	0	0.000
2,2' DNDPA	50.0	5.126	639.9	36297	0.000
2,4' DNDPA	50.0	7.394	1017.9	0	0.000
4NDPA	50.0	8.896	1634	192.1	0.012
2NDPA	50.0	10.072	2918.5	225.1	0.008
DPA	200.0	11.572	5746.6	910.2	0.063
N-NitrosoDPA	75.0	12.376	1389.7	0	0.000
				0.310	
				0.310	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.31 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

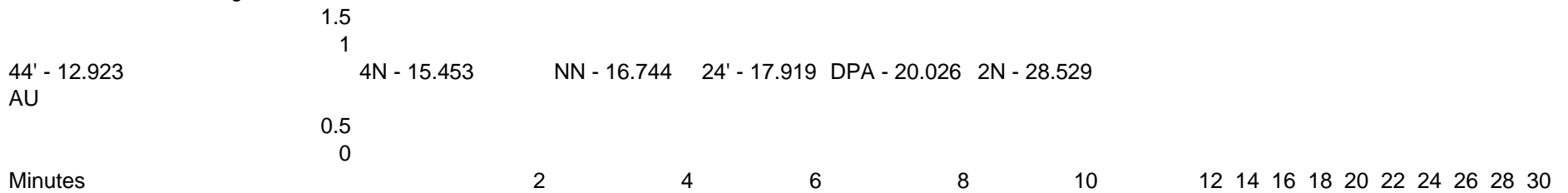
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070444				D533 / M6 propellant	
Date of analysis:				Date: 31 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	324.5	797.4	0.246
2,4-DNDPA	50.0	3.397	930.9	18.9	0.002
2,2' DNDPA	50.0	5.126	639.9	32335	0.000
2,4' DNDPA	50.0	7.394	1017.9	0	0.000
4NDPA	50.0	8.896	1634	95.8	0.006
2NDPA	50.0	10.072	2918.5	201	0.007
DPA	200.0	11.572	5746.6	1021.5	0.071
N-NitrosoDPA	75.0	12.376	1389.7	0	0.000
				0.332	
				0.332	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

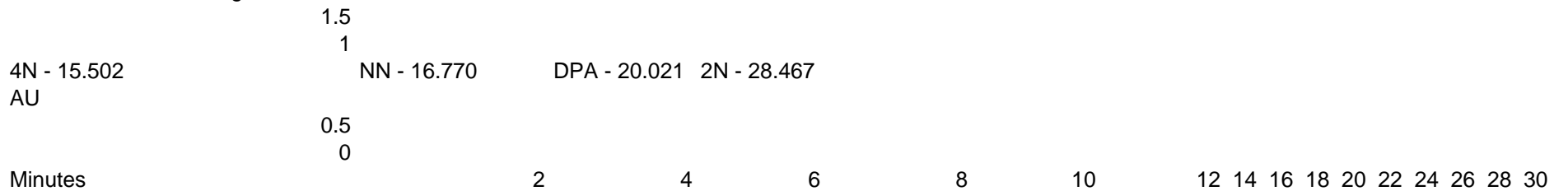
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87B070680				D533 / M6 propellant	
Date of analysis:				Date: 31 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.856	324.5	800.8	0.247
2,4-DNDPA	50.0	3.397	930.9	35.4	0.004
2,2' DNDPA	50.0	5.126	639.9	26065	0.000
2,4' DNDPA	50.0	7.394	1017.9	88.7	0.009
4NDPA	50.0	8.896	1634	385.2	0.024
2NDPA	50.0	10.072	2918.5	395.2	0.014
DPA	200.0	11.572	5746.6	507.8	0.035
N-NitrosoDPA	75.0	12.376	1389.7	0	0.000
				0.332	
				0.332	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.33 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84D070429				D533 / M6 propellant	
Date of analysis:				Date: 4 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.867	83.7	405.3	0.484
2,4-DNDPA	50.0	3.338	1156.5	29.5	0.003
2,2' DNDPA	50.0	5.017	5373.7	34186	0.000
2,4' DNDPA	50.0	7.147	1263.8	29.6	0.002
4NDPA	50.0	8.595	2061.4	140.6	0.007
2NDPA	50.0	9.687	3694.9	294.8	0.008
DPA	200.0	11.119	7683.7	1558.5	0.081
N-NitrosoDPA	75.0	11.99	2133.1		0.000
				0.585	
				Avg. % Stabilizer for Lot	
				0.585	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Takisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					0.59 % %
Lab. Supervisor Signature					Stable YES Unstable
					Comments
					CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070454				D533 / M6 propellant	
Date of analysis:				Date: 4 MAY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.867	83.7	400.6	0.479
2,4-DNDPA	50.0	3.338	1156.5	0	0.000
2,2' DNDPA	50.0	5.017	5373.7	23342	0.000
2,4' DNDPA	50.0	7.147	1263.8	0	0.000
4NDPA	50.0	8.595	2061.4	48.3	0.002
2NDPA	50.0	9.687	3694.9	94.1	0.003
DPA	200.0	11.119	7683.7	721.2	0.038
N-NitrosoDPA	75.0	11.99	2133.1		0.000
0.521					
Avg. % Stabilizer for Lot					0.521
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.52 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88A070891				D533 / M6 propellant	
Date of analysis:				Date: 10 NOV 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.754	194.4	1458.4	0.750
2,4-DNDPA	50.0	3.382	1272.7	25.7	0.002
2,2' DNDPA	50.0	5.139	1982.5	27828	0.000
2,4' DNDPA	50.0	7.414	1387.8	0	0.000
4NDPA	50.0	8.918	2254.3	114.7	0.005
2NDPA	50.0	10.088	4040.6	189.5	0.005
DPA	200.0	11.608	7993.7	1179.9	0.059
N-NitrosoDPA	75.0	12.407	1919.6	0	0.000
				0.821	
				0.821	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.82 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070720				D533 / M6 propellant	
Date of analysis:				Date: 18 NOV 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.747	327.4	1170.4	0.357
2,4-DNDPA	50.0	3.395	1731.2	21.2	0.001
2,2' DNDPA	50.0	5.173	4488.9	22467	0.000
2,4' DNDPA	50.0	7.497	1903.5	0	0.000
4NDPA	50.0	9.01	3102.1	91.8	0.003
2NDPA	50.0	10.21	5531.9	144.8	0.003
DPA	200.0	11.727	11056	931.7	0.034
N-NitrosoDPA	75.0	12.547	2638.3	0	0.000
				0.398	
				0.398	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82E070114				D533 / M6 propellant	
Date of analysis:				Date: 22 NOV 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.753	205.4	623.3	0.303
2,4-DNDPA	50.0	3.383	927.4	0	0.000
2,2' DNDPA	50.0	5.127	481.8	21922	0.000
2,4' DNDPA	50.0	7.38	1001.4	0	0.000
4NDPA	50.0	8.893	1609.3	58.6	0.004
2NDPA	50.0	10.053	2886.9	118	0.004
DPA	200.0	11.586	5621.7	791.2	0.056
N-NitrosoDPA	75.0	12.383	1361.9	0	0.000
				0.367	
				Avg. % Stabilizer for Lot	
				0.367	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.37 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83H070282		D533 / M6 propellant	
Date of analysis:		Date: 30 NOV 2011	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.748	223.8	1275.8	0.570
2,4-DNDPA	50.0	3.375	981.1	16.8	0.002
2,2' DNDPA	50.0	5.12	330.5	26647	0.000
2,4' DNDPA	50.0	7.381	1061.9	0	0.000
4NDPA	50.0	8.882	1715.6	108.8	0.006
2NDPA	50.0	10.042	3064	0	0.000
DPA	200.0	11.556	5887.4	1301.7	0.088
N-NitrosoDPA	75.0	12.35	1448.1	0	0.000

Avg. % Stabilizer for Lot	0.667 0.667
---------------------------	-----------------------

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON	Avg. Tot. Stabilizers 0.67 % %
Analyst Signature	Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

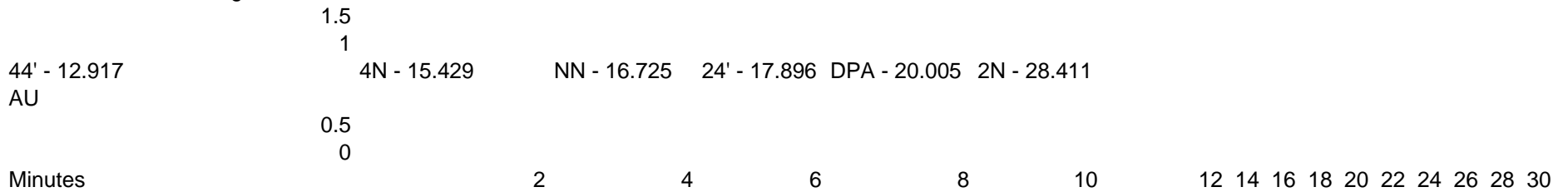
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

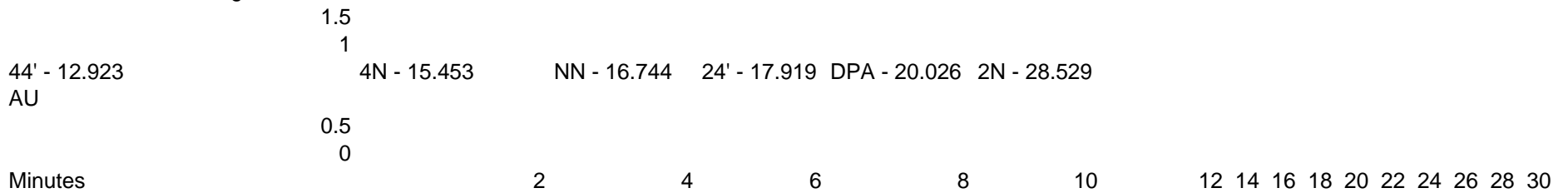
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND91H071485				D533 / M6 propellant	
Date of analysis:				Date: 4 NOV 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.812	149.8	401.5	0.268
2,4-DNDPA	50.0	3.425	1113.5	0	0.000
2,2' DNDPA	50.0	5.228	1478.7	26994	0.000
2,4' DNDPA	50.0	7.595	1215.5	0	0.000
4NDPA	50.0	9.133	1978.9	92	0.005
2NDPA	50.0	10.357	3541.7	143.8	0.004
DPA	200.0	11.888	6924.4	691.7	0.040
N-NitrosoDPA	75.0	12.729	1665.9	0	0.000
				0.317	
				Avg. % Stabilizer for Lot 0.317	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.32 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

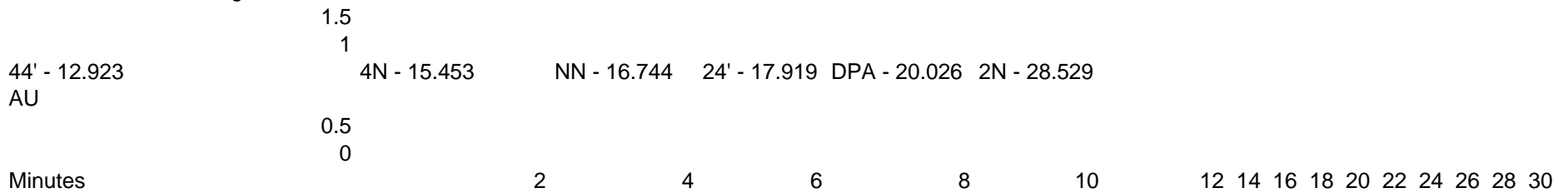
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

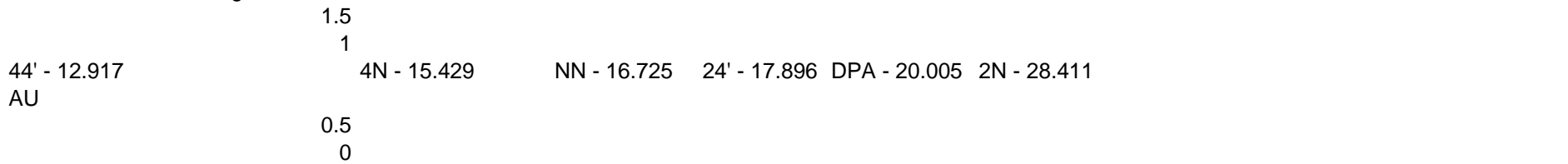
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

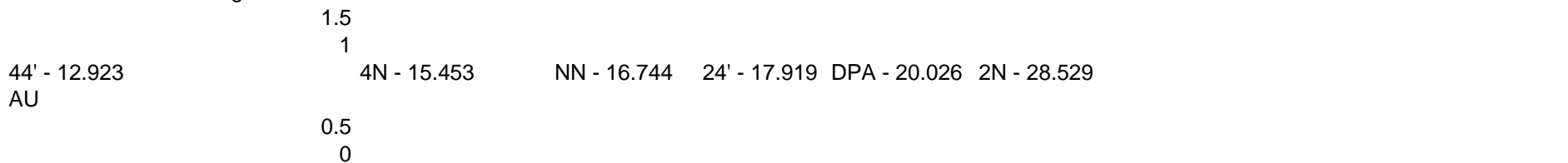
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84FY70436				D533 / M6 propellant	
Date of analysis:				Date: 14 OCTOBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.863	84.2	422.2 0.501
2,4-DNDPA	50.0		3.443	919.3	17.8 0.002
2,2' DNDPA	50.0		5.259	485	23302 0.000
2,4' DNDPA	50.0		7.649	990	30.2 0.003
4NDPA	50.0		9.19	1591.6	212.4 0.013
2NDPA	50.0		10.427	2873	210.6 0.007
DPA	200.0		11.959	5546.2	186.1 0.013
N-NitrosoDPA	75.0		12.801	1347.2	0 0.000
				0.541	
				Avg. % Stabilizer for Lot 0.541	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.54 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82HY70165				D533 / M6 propellant	
Date of analysis:				Date: 19 OCTOBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	108.3	515.9	0.476
2,4-DNDPA	50.0	3.439	927.1	0	0.000
2,2' DNDPA	50.0	5.254	682.7	21969	0.000
2,4' DNDPA	50.0	7.643	998.4	0	0.000
4NDPA	50.0	9.185	1612.6	423.9	0.026
2NDPA	50.0	10.427	2895.4	170.9	0.006
DPA	200.0	11.954	5562.6	321.2	0.023
N-NitrosoDPA	75.0	12.798	1360.9	0	0.000
				0.532	
				0.532	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.53 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070177				D533 / M6 propellant	
Date of analysis:				Date: 19 OCTOBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	108.3	722.6	0.667
2,4-DNDPA	50.0	3.439	927.1	0	0.000
2,2' DNDPA	50.0	5.254	682.7	22044	0.000
2,4' DNDPA	50.0	7.643	998.4	0	0.000
4NDPA	50.0	9.185	1612.6	66.1	0.004
2NDPA	50.0	10.427	2895.4	454.1	0.016
DPA	200.0	11.954	5562.6	82.1	0.006
N-NitrosoDPA	75.0	12.798	1360.9	0	0.000
				0.693	
				0.693	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.69 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

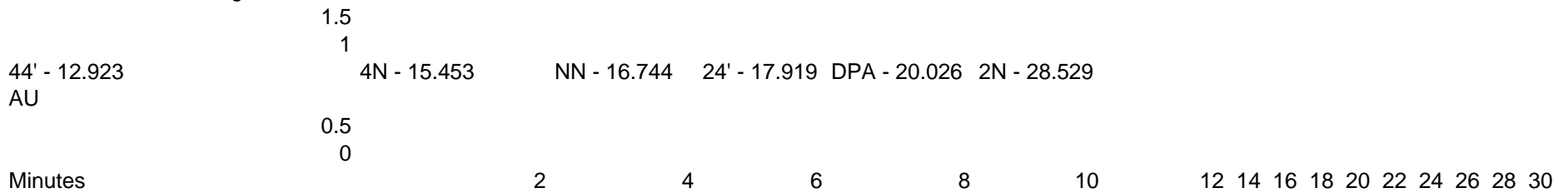
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83EY70226				D533 / M6 propellant	
Date of analysis:				Date: 19 OCTOBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	108.3	739.6	0.683
2,4-DNDPA	50.0	3.439	927.1	18.2	0.002
2,2' DNDPA	50.0	5.254	682.7	21619	0.000
2,4' DNDPA	50.0	7.643	998.4	0	0.000
4NDPA	50.0	9.185	1612.6	178.3	0.011
2NDPA	50.0	10.427	2895.4	226.6	0.008
DPA	200.0	11.954	5562.6	304.2	0.022
N-NitrosoDPA	75.0	12.798	1360.9	0	0.000
				0.726	
				0.726	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.73 %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86MY70673				D533 / M6 propellant	
Date of analysis:				Date: 19 OCTOBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	108.3	540.2	0.499
2,4-DNDPA	50.0	3.439	927.1	0	0.000
2,2' DNDPA	50.0	5.254	682.7	21945	0.000
2,4' DNDPA	50.0	7.643	998.4	0	0.000
4NDPA	50.0	9.185	1612.6	79.1	0.005
2NDPA	50.0	10.427	2895.4	489.7	0.017
DPA	200.0	11.954	5562.6	82.2	0.006
N-NitrosoDPA	75.0	12.798	1360.9	0	0.000
				0.527	
				Avg. % Stabilizer for Lot	
				0.527	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.53 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

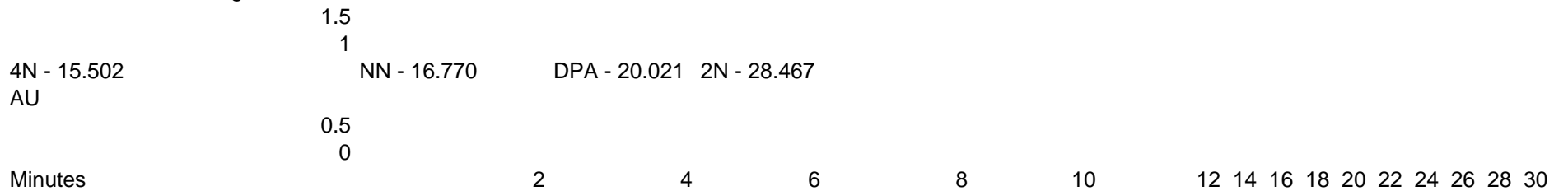
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87BY70678		D533 / M6 propellant	
Date of analysis:		Date: 19 OCTOBER 2011	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	108.3	465.3	0.430
2,4-DNDPA	50.0	3.439	927.1	0	0.000
2,2' DNDPA	50.0	5.254	682.7	22447	0.000
2,4' DNDPA	50.0	7.643	998.4	0	0.000
4NDPA	50.0	9.185	1612.6	50	0.003
2NDPA	50.0	10.427	2895.4	343.7	0.012
DPA	200.0	11.954	5562.6	261.2	0.019
N-NitrosoDPA	75.0	12.798	1360.9	0	0.000

	0.463
Avg. % Stabilizer for Lot	0.463

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON	Avg. Tot. Stabilizers 0.46 %
Analyst Signature	Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85FY70586 **D533 / M6 propellant**

Date of analysis: **Date: 20 OCTOBER 2011**

Other Information M6 Propellant	Sample Data #1	0.50 g	100 ml	Solvent ACN
---	-------------------	--------	--------	----------------

Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.857	82.4	324.9	0.394	
2,4-DNDPA	50.0	3.451	949.9	0	0.000	
2,2' DNDPA	50.0	5.257	842.8	22720	0.000	
2,4' DNDPA	50.0	7.625	1021.6	0	0.000	
4NDPA	50.0	9.173	1643.9	139.7	0.008	
2NDPA	50.0	10.399	2967.1	170.7	0.006	
DPA	200.0	11.95	5685.1	251.8	0.018	
N-NitrosoDPA	75.0	12.792	1404.1	0	0.000	

Avg. % Stabilizer for Lot	0.426
	0.426

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON **Avg. Tot. Stabilizers** **0.43** % %

Analyst Signature Stable YES Unstable

Lab. Supervisor Signature **Comments**
CATEGORY: **A**

Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

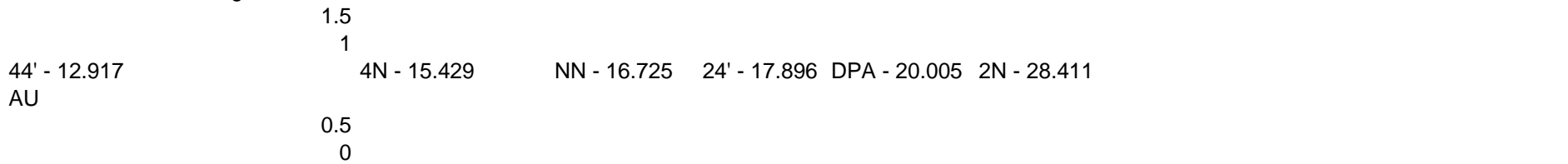
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

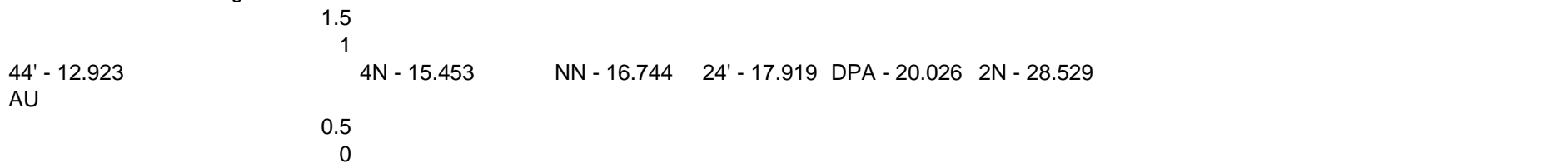
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85FY70587				D533 / M6 propellant	
Date of analysis:				Date: 21 OCT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.825	86.9	616.6 0.710
2.4-DNDPA	50.0		3.427	963.3	24.1 0.003
2.2' DNDPA	50.0		5.229	912.7	34162 0.000
2.4' DNDPA	50.0		7.596	1040.3	0 0.000
4NDPA	50.0		9.123	1691.6	283.7 0.017
2NDPA	50.0		10.347	3041.3	305.8 0.010
DPA	200.0		11.869	5818.7	301.8 0.021
N-NitrosoDPA	75.0		12.703	1423	0 0.000
				0.760	
				Avg. % Stabilizer for Lot 0.760	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.76 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070512				D533 / M6 propellant	
Date of analysis:				Date: 26 OCT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.811	226.1	610.3	0.270
2,4-DNDPA	50.0	3.428	979.3	0	0.000
2,2' DNDPA	50.0	5.223	938.5	22144	0.000
2,4' DNDPA	50.0	7.579	1058.7	0	0.000
4NDPA	50.0	9.118	1705.2	34.9	0.002
2NDPA	50.0	10.331	3070.6	74.6	0.002
DPA	200.0	11.88	5950.5	669.8	0.045
N-NitrosoDPA	75.0	12.714	1455.8	0	0.000
				0.319	
				Avg. % Stabilizer for Lot 0.319	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.32 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89F071043				D533 / M6 propellant	
Date of analysis:				Date: 26 OCT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.811	226.1	777.5	0.344
2,4-DNDPA	50.0	3.428	979.3	0	0.000
2,2' DNDPA	50.0	5.223	938.5	24239	0.000
2,4' DNDPA	50.0	7.579	1058.7	0	0.000
4NDPA	50.0	9.118	1705.2	69.2	0.004
2NDPA	50.0	10.331	3070.6	140.5	0.005
DPA	200.0	11.88	5950.5	686.6	0.046
N-NitrosoDPA	75.0	12.714	1455.8	0	0.000
				0.399	
				Avg. % Stabilizer for Lot	
				0.399	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable <input checked="" type="checkbox"/> YES <input type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83CY70236				D533 / M6 propellant	
Date of analysis:				Date: 3 Oct 2011	
Other Information M6 Propellant			Sample Data #1 0.50 g		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.86	135.2	691.9	0.512
2,4-DNDPA	50.0	3.443	908.1	18.2	0.002
2,2' DNDPA	50.0	5.254	302.8	29326	0.000
2,4' DNDPA	50.0	7.635	974.7	27.7	0.003
4NDPA	50.0	9.181	1566.9	306.6	0.020
2NDPA	50.0	10.412	2836.4	307.8	0.011
DPA	200.0	11.964	5481.1	322.3	0.024
N-NitrosoDPA	75.0	12.808	1332.6	0	0.000
				0.571	
				0.571	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.57 % %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

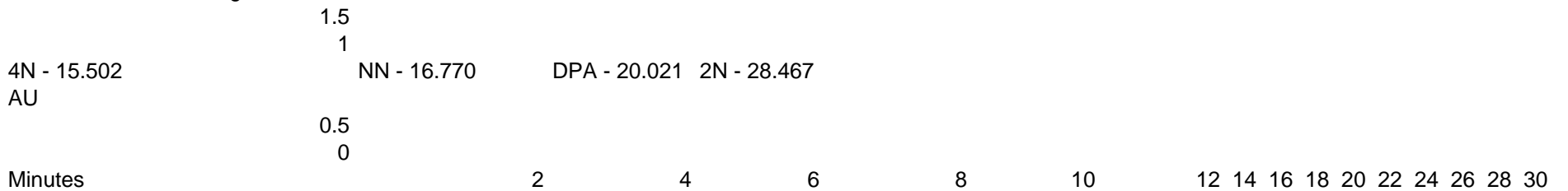
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81EY70021				D533 / M6 propellant	
Date of analysis:				Date: 7 OCT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.859	132.5	420.4	0.317
2,4-DNDPA	50.0	3.44	910.9	15.1	0.002
2,2' DNDPA	50.0	5.25	555.2	22225	0.000
2,4' DNDPA	50.0	7.627	977.5	27.6	0.003
4NDPA	50.0	9.173	1573.4	159.9	0.010
2NDPA	50.0	10.403	2845.9	203.9	0.007
DPA	200.0	11.952	5496.7	159.6	0.012
N-NitrosoDPA	75.0	12.794	1333	0	0.000
Avg. % Stabilizer for Lot				0.351 0.351	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson			Avg. Tot. Stabilizers 0.35 %		
Analyst Signature			Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83DY70272				D533 / M6 propellant	
Date of analysis:				Date: 7 OCT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.859	132.5	413.9	0.312
2,4-DNDPA	50.0	3.44	910.9	0	0.000
2,2' DNDPA	50.0	5.25	555.2	22396	0.000
2,4' DNDPA	50.0	7.627	977.5	0	0.000
4NDPA	50.0	9.173	1573.4	91	0.006
2NDPA	50.0	10.403	2845.9	224.1	0.008
DPA	200.0	11.952	5496.7	178.3	0.013
N-NitrosoDPA	75.0	12.794	1333	0	0.000
Avg. % Stabilizer for Lot					0.339 0.339
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	Kisha Dickerson			Avg. Tot. Stabilizers	
Analyst Signature				0.34 %	
Lab. Supervisor Signature				Stable <input type="checkbox"/> Unstable <input type="checkbox"/>	
				Comments	
				CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

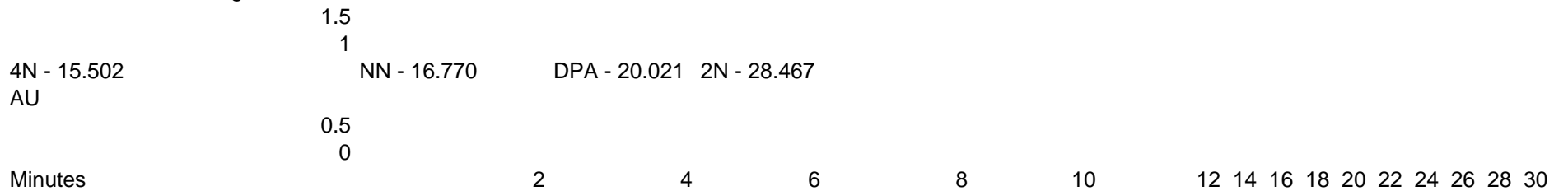
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

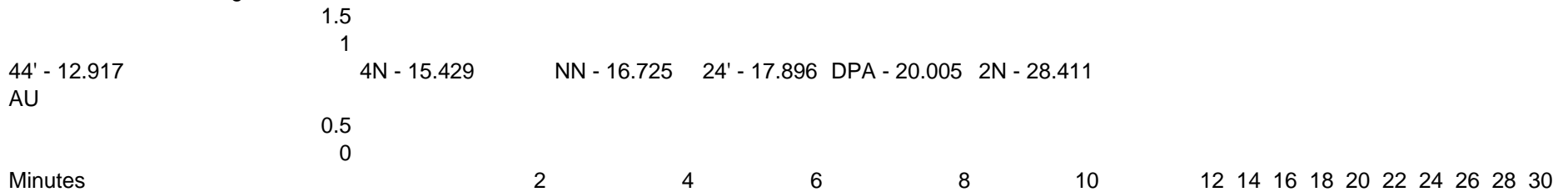
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

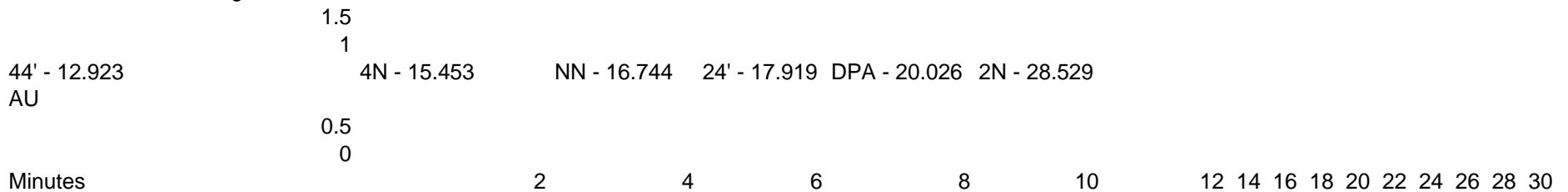
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070433				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	155	1.761
2,4-DNDPA	50.0	3.343	910.9	25.2	0.003
2,2' DNDPA	50.0	5.034	3858.6	20094	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	90.4	0.005
2NDPA	50.0	9.95	2919.6	181.9	0.006
DPA	200.0	11.386	5857.1	771.7	0.053
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.829	
				1.829	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.83 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

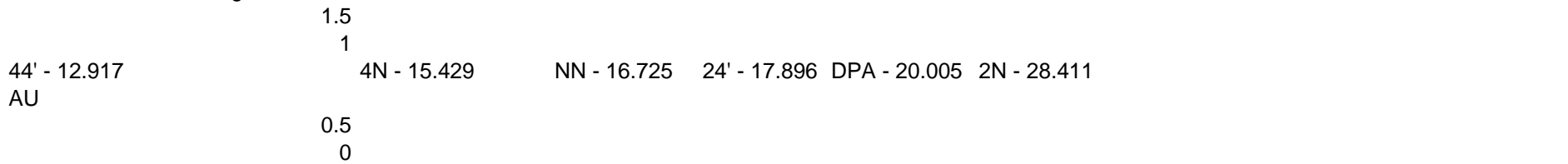
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

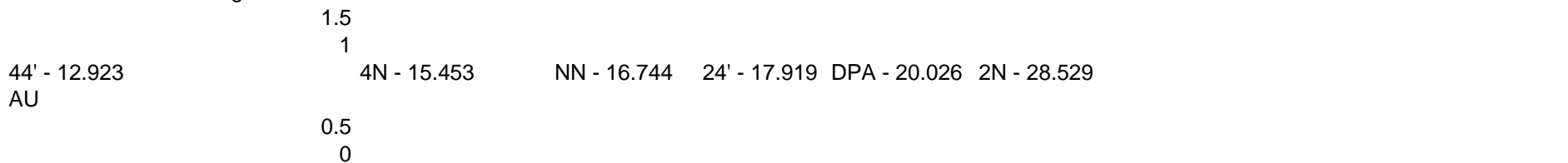
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

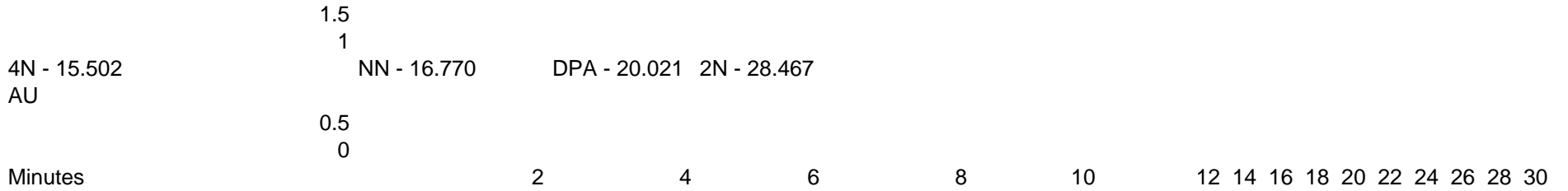
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



NN - 16.770 DPA - 20.021 2N - 28.467

Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86L070640				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	29.1	0.331
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	21135	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	141.4	0.009
2NDPA	50.0	9.95	2919.6	123.4	0.004
DPA	200.0	11.386	5857.1	129.3	0.009
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				0.352	
				0.352	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.35 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88D070894				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	167.1	1.899
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	19661	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	52.5	0.003
2NDPA	50.0	9.95	2919.6	79.3	0.003
DPA	200.0	11.386	5857.1	767.4	0.052
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.957	
				Avg. % Stabilizer for Lot	
				1.957	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Takisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					1.96 % %
Lab. Supervisor Signature					Stable YES Unstable
					Comments
					CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88M070994				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	105.2	1.195
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	21684	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	33.7	0.002
2NDPA	50.0	9.95	2919.6	70.5	0.002
DPA	200.0	11.386	5857.1	742.1	0.051
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.251	
				1.251	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.25 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070281				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	199.6	0.486
2,4-DNDPA	50.0	3.363	1017.6	13.9	0.001
2,2' DNDPA	50.0	5.079	4556.2	21910	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	71.9	0.004
2NDPA	50.0	10.084	3271.2	123.5	0.004
DPA	200.0	11.54	6554.9	888.5	0.054
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				0.549	
				0.549	
Avg. % Stabilizer for Lot					
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.55 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

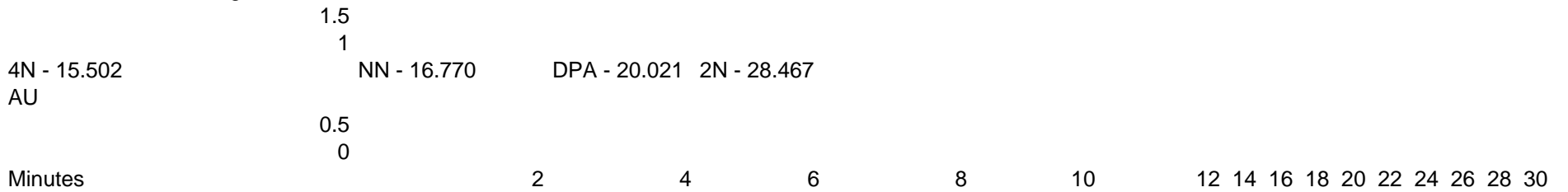
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84D070333				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	209.5	0.510
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	22693	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	52.1	0.003
2NDPA	50.0	10.084	3271.2	95.3	0.003
DPA	200.0	11.54	6554.9	749.3	0.046
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				0.561	
				0.561	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.56 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070452				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	237.6	0.578
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	22977	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	53.4	0.003
2NDPA	50.0	10.084	3271.2	114.5	0.004
DPA	200.0	11.54	6554.9	610.4	0.037
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
Avg. % Stabilizer for Lot					0.622 0.622
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.62 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

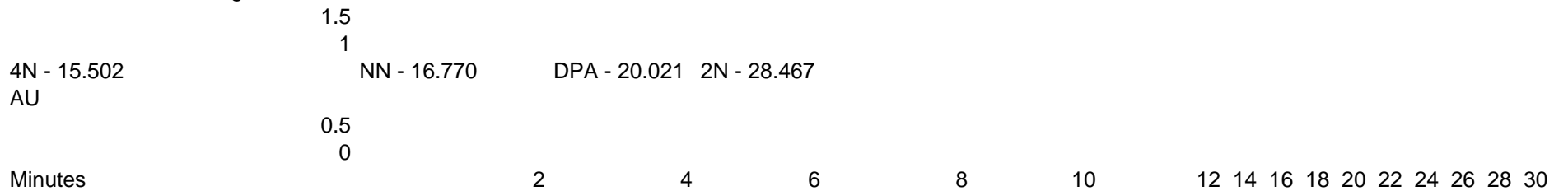
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070585				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	595	1.448
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	21200	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	54.8	0.003
2NDPA	50.0	10.084	3271.2	75.9	0.002
DPA	200.0	11.54	6554.9	623	0.038
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				1.491	
Avg. % Stabilizer for Lot				1.491	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.49 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86E070618				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	534.9	1.301
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	21876	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	0	0.000
2NDPA	50.0	10.084	3271.2	63.2	0.002
DPA	200.0	11.54	6554.9	809.3	0.049
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				1.353	
				Avg. % Stabilizer for Lot 1.353	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.35 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

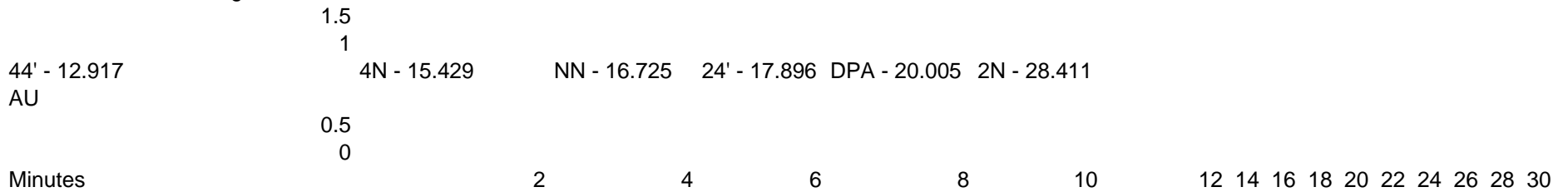
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

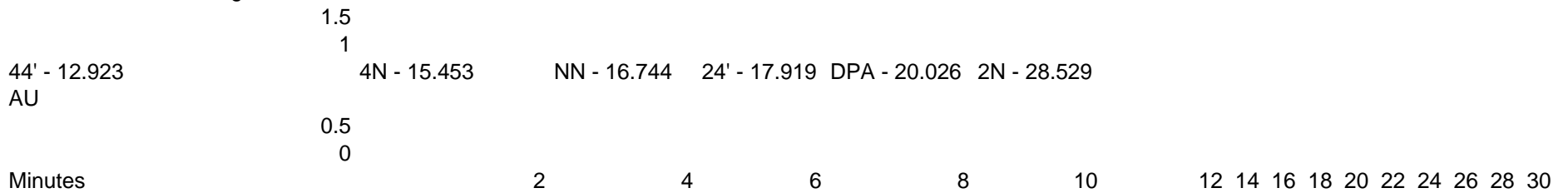
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87C070710				D533 / M6 propellant	
Date of analysis:				Date: 17 AUGUST 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.875	102.4	393.9	0.385
2,4-DNDPA	50.0	3.388	1026.9	34.2	0.003
2,2' DNDPA	50.0	5.118	5540.6	25283	0.000
2,4' DNDPA	50.0	7.563	1139.7	44.3	0.004
4NDPA	50.0	9.017	1856.3	226.5	0.012
2NDPA	50.0	10.228	3311.1	275.5	0.008
DPA	200.0	11.677	6683.7	395.4	0.024
N-NitrosoDPA	75.0	12.516	1525.1	0	0.000
Avg. % Stabilizer for Lot					0.436 0.436
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.44 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82A070102						D533 / M6 propellant			
Date of analysis:						Date: 11 JULY 2012			
Other Information M6 Propellant				Sample Data #1		0.50 g		Solvent 100 ml ACN	
Standards (ERG-006)						Sample #			
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1		Intg. Area	Conc. %			
4,4' DNDPA	50.0	0.803	32.3		204.4	0.633			
2,4-DNDPA	50.0	3.397	945.1		0	0.000			
2,2' DNDPA	50.0	5.155	1995.1		20529	0.000			
2,4' DNDPA	50.0	7.525	949.2		0	0.000			
4NDPA	50.0	9.04	1580.4		168.2	0.011			
2NDPA	50.0	10.278	2854		133	0.005			
DPA	200.0	11.761	5473.7		261.1	0.019			
N-NitrosoDPA	75.0	12.606	1672.4		0	0.000			
Avg. % Stabilizer for Lot					0.667 0.667				
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D									
Analyst Takisha Dickerson						Avg. Tot. Stabilizers 0.67 % %			
Analyst Signature						Stable YES Unstable			
Lab. Supervisor Signature						Comments CATEGORY: A			
						Actions to be Taken			

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

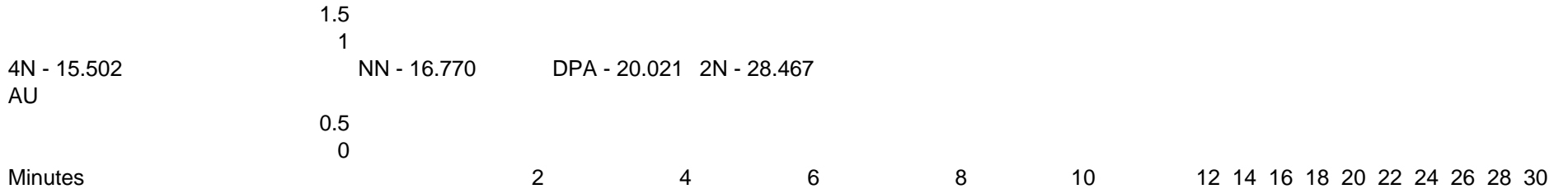
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070177				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	249.7	0.773
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	22301	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	140	0.009
2NDPA	50.0	10.278	2854	90.4	0.003
DPA	200.0	11.761	5473.7	378.2	0.028
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				0.813	
				0.813	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.81 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

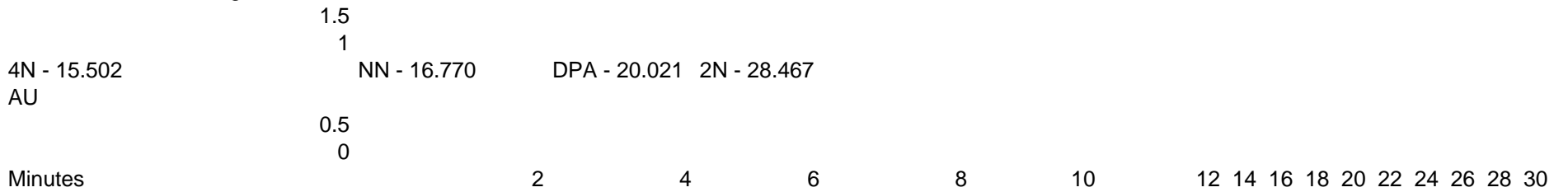
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

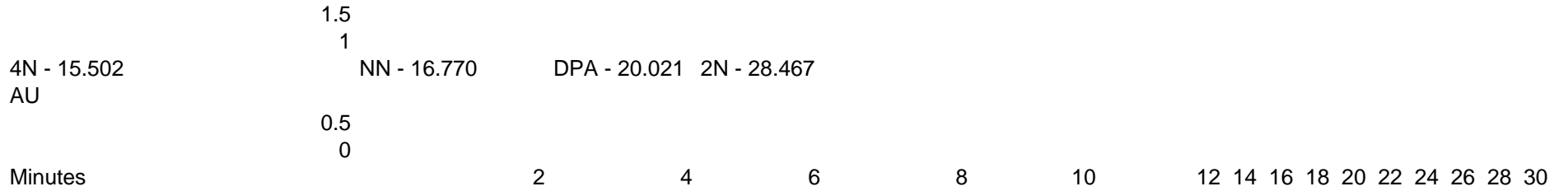
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85A070503				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	257.1	0.796
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	25657	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	216.5	0.014
2NDPA	50.0	10.278	2854	158	0.006
DPA	200.0	11.761	5473.7	274.7	0.020
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				0.835	
				0.835	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.84 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

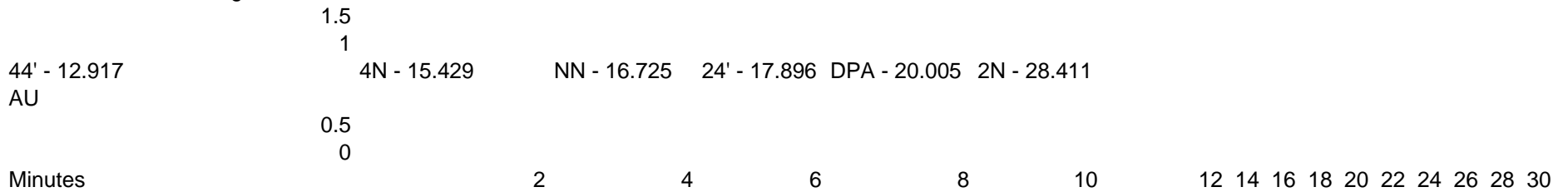
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

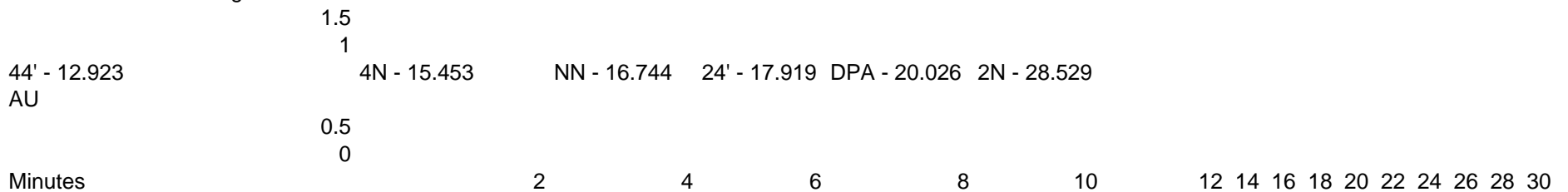
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

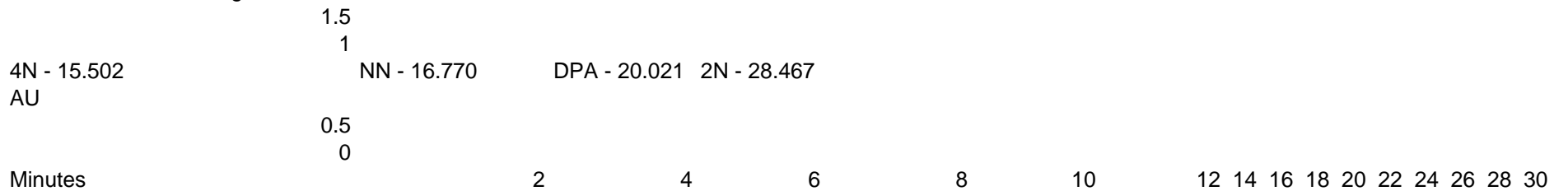
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85G070592				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	546.9	1.693
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	23089	0.000
2,4' DNDPA	50.0	7.525	949.2	24.1	0.003
4NDPA	50.0	9.04	1580.4	159.2	0.010
2NDPA	50.0	10.278	2854	160.7	0.006
DPA	200.0	11.761	5473.7	133.8	0.010
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				1.721	
				1.721	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.72 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

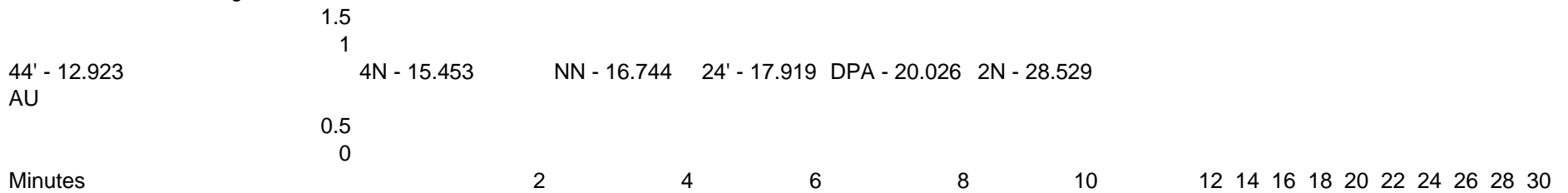
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87D070712				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	333.1	1.031
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	20303	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	117.3	0.007
2NDPA	50.0	10.278	2854	118.5	0.004
DPA	200.0	11.761	5473.7	159.5	0.012
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				1.054	
				Avg. % Stabilizer for Lot 1.054	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.05 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88K070990				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	509.6	1.578
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	21484	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	136.3	0.009
2NDPA	50.0	10.278	2854	128.6	0.005
DPA	200.0	11.761	5473.7	169.8	0.012
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				1.603	
Avg. % Stabilizer for Lot				1.603	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.60 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89A070995				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	402.8	1.247
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	22048	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	104.8	0.007
2NDPA	50.0	10.278	2854	57	0.002
DPA	200.0	11.761	5473.7	358.1	0.026
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
1.282					
Avg. % Stabilizer for Lot					1.282
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.28 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89M071301				D533 / M6 propellant	
Date of analysis:				Date: 11 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.803	32.3	414.8	1.284
2,4-DNDPA	50.0	3.397	945.1	0	0.000
2,2' DNDPA	50.0	5.155	1995.1	21668	0.000
2,4' DNDPA	50.0	7.525	949.2	0	0.000
4NDPA	50.0	9.04	1580.4	128.1	0.008
2NDPA	50.0	10.278	2854	117.7	0.004
DPA	200.0	11.761	5473.7	200.7	0.015
N-NitrosoDPA	75.0	12.606	1672.4	0	0.000
				1.311	
				1.311	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.31 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070112				D533 / M6 propellant	
Date of analysis:				Date: 13 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.976	7.7	31.2
2,4-DNDPA	50.0		3.554	934	28
2,2' DNDPA	50.0		5.512	1913.4	20596
2,4' DNDPA	50.0		8.321	1035.3	38.7
4NDPA	50.0		9.915	1676.8	195.9
2NDPA	50.0		10.852	1982	91.3
DPA	200.0		11.331	5875.5	92.7
N-NitrosoDPA	75.0		12.801	1391.7	0
					0.435
Avg. % Stabilizer for Lot					0.435
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.43 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

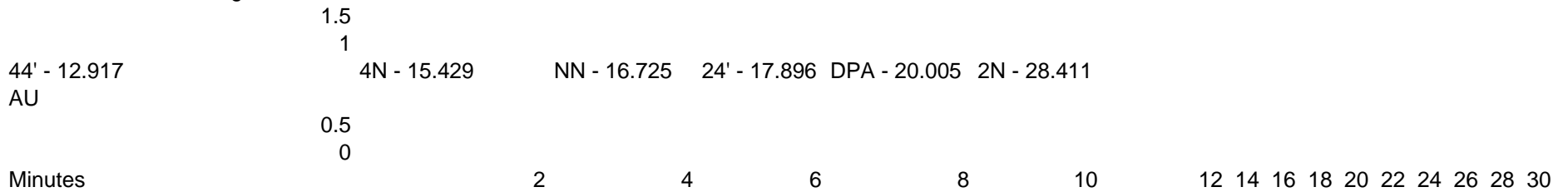
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

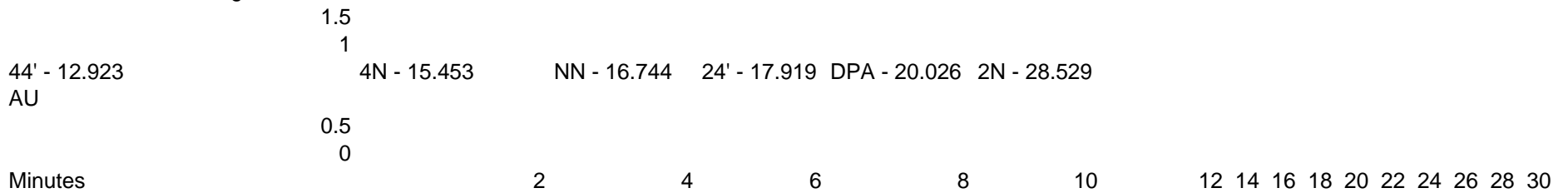
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

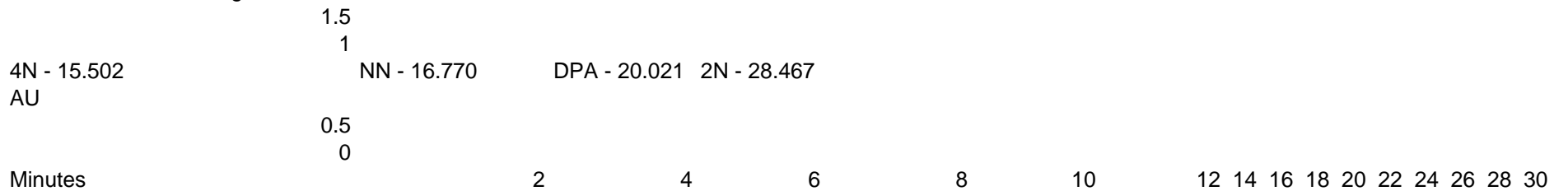
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82G070163				D533 / M6 propellant	
Date of analysis:				Date: 13 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.976	7.7	32.6
2.4-DNDPA	50.0		3.554	934	0
2.2' DNDPA	50.0		5.512	1913.4	24390
2.4' DNDPA	50.0		8.321	1035.3	0
4NDPA	50.0		9.915	1676.8	80.1
2NDPA	50.0		10.852	1982	105
DPA	200.0		11.331	5875.5	0
N-NitrosoDPA	75.0		12.801	1391.7	830.6
					0.433
Avg. % Stabilizer for Lot					0.433
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.43 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

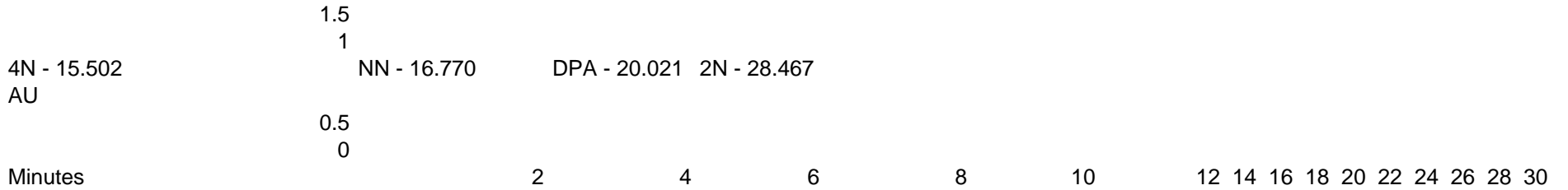
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070176				D533 / M6 propellant	
Date of analysis:				Date: 13 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.976	7.7	38.2 0.496
2.4-DNDPA	50.0		3.554	934	0 0.000
2.2' DNDPA	50.0		5.512	1913.4	25398 0.000
2.4' DNDPA	50.0		8.321	1035.3	0 0.000
4NDPA	50.0		9.915	1676.8	178.7 0.011
2NDPA	50.0		10.852	1982	93.3 0.005
DPA	200.0		11.331	5875.5	110.4 0.008
N-NitrosoDPA	75.0		12.801	1391.7	387.3 0.000
				0.519	
				Avg. % Stabilizer for Lot 0.519	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.52 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83D070238				D533 / M6 propellant	
Date of analysis:				Date: 13 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.834	67.1	677.6 1.010
2,4-DNDPA	50.0		3.482	914.2	14 0.002
2,2' DNDPA	50.0		5.393	1642.3	25902 0.000
2,4' DNDPA	50.0		8.197	996.2	0 0.000
4NDPA	50.0		9.658	1623	110.1 0.007
2NDPA	50.0		10.98	1781.2	59.6 0.003
DPA	200.0		12.42	5698.5	811.9 0.057
N-NitrosoDPA	75.0		13.367	1344.7	0 0.000
				1.078	
				Avg. % Stabilizer for Lot 1.078	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.08 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

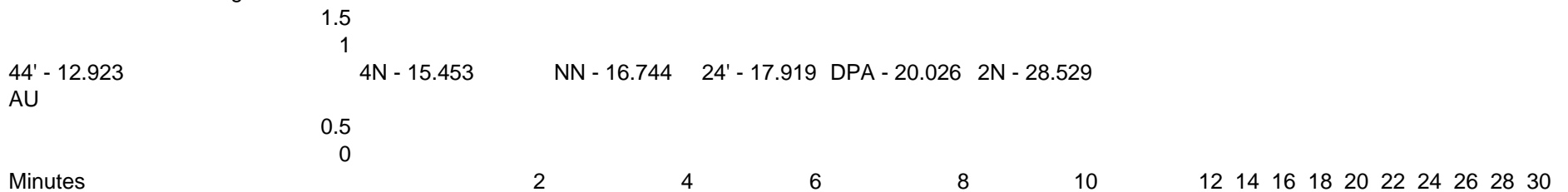
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

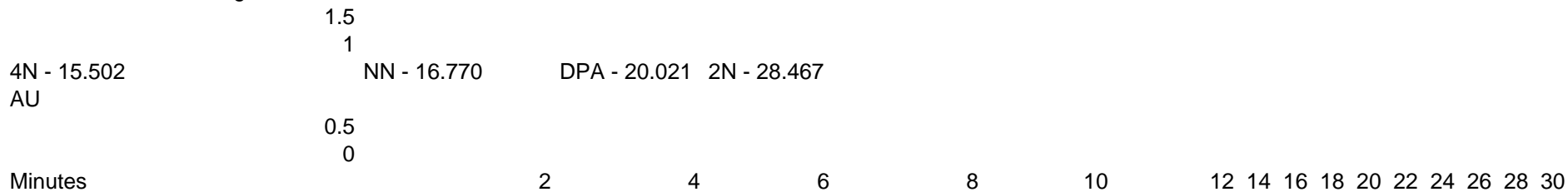
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070847				D533 / M6 propellant	
Date of analysis:				Date: 13 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.834	67.1	273.7 0.408
2.4-DNDPA	50.0		3.482	914.2	13.4 0.001
2.2' DNDPA	50.0		5.393	1642.3	25023 0.000
2.4' DNDPA	50.0		8.197	996.2	0 0.000
4NDPA	50.0		9.658	1623	97.8 0.006
2NDPA	50.0		10.98	1781.2	61.2 0.003
DPA	200.0		12.42	5698.5	671.3 0.047
N-NitrosoDPA	75.0		13.367	1344.7	0 0.000
				0.466	
				Avg. % Stabilizer for Lot 0.466	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.47 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070025				D533 / M6 propellant	
Date of analysis:				Date: 16 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.871	70.6	539.9	0.765
2,4-DNDPA	50.0	3.368	934.1	15.6	0.002
2,2' DNDPA	50.0	5.103	1888.6	21909	0.000
2,4' DNDPA	50.0	7.516	1021.7	0	0.000
4NDPA	50.0	8.938	1656.1	71.1	0.004
2NDPA	50.0	10.131	2970.1	103.8	0.003
DPA	200.0	11.561	5887.3	835.5	0.057
N-NitrosoDPA	75.0	12.367	1376.5	0	0.000
Avg. % Stabilizer for Lot				0.831 0.831	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.83 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

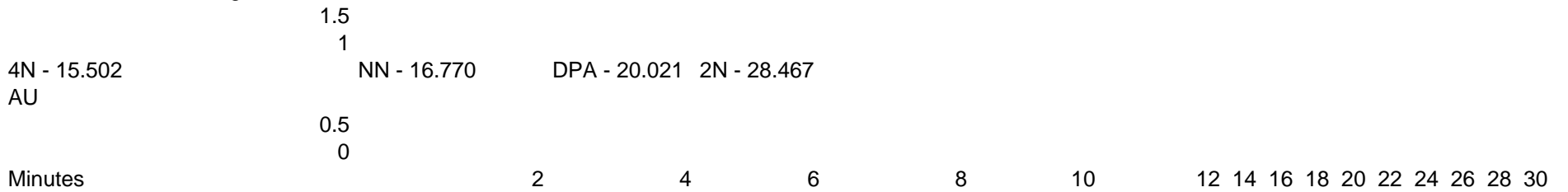
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070507				D533 / M6 propellant	
Date of analysis:				Date: 16 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.871	70.6	459.1	0.650
2,4-DNDPA	50.0	3.368	934.1	0	0.000
2,2' DNDPA	50.0	5.103	1888.6	22961	0.000
2,4' DNDPA	50.0	7.516	1021.7	0	0.000
4NDPA	50.0	8.938	1656.1	138.9	0.008
2NDPA	50.0	10.131	2970.1	109.4	0.004
DPA	200.0	11.561	5887.3	342.8	0.023
N-NitrosoDPA	75.0	12.367	1376.5	0	0.000
				0.686	
				0.686	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.69 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

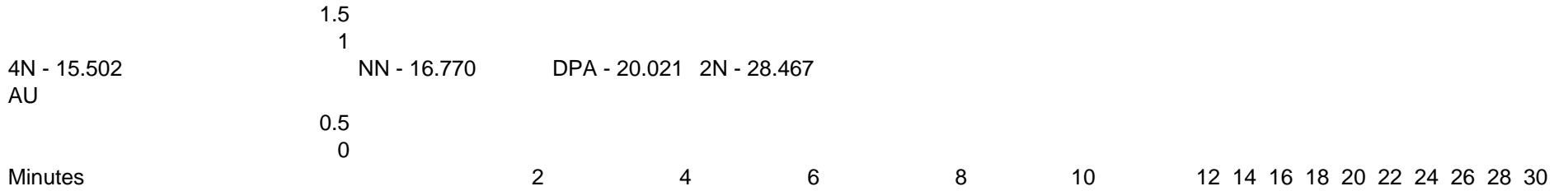
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86F070620				D533 / M6 propellant	
Date of analysis:				Date: 16 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.871	70.6	531.4	0.753
2,4-DNDPA	50.0	3.368	934.1	0	0.000
2,2' DNDPA	50.0	5.103	1888.6	22777	0.000
2,4' DNDPA	50.0	7.516	1021.7	0	0.000
4NDPA	50.0	8.938	1656.1	118.3	0.007
2NDPA	50.0	10.131	2970.1	134.1	0.005
DPA	200.0	11.561	5887.3	305.9	0.021
N-NitrosoDPA	75.0	12.367	1376.5	0	0.000
Avg. % Stabilizer for Lot					0.785 0.785
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.79 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88L070992				D533 / M6 propellant	
Date of analysis:				Date: 16 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.871	70.6	540.3	0.765
2,4-DNDPA	50.0	3.368	934.1	25.1	0.003
2,2' DNDPA	50.0	5.103	1888.6	21562	0.000
2,4' DNDPA	50.0	7.516	1021.7	0	0.000
4NDPA	50.0	8.938	1656.1	45.6	0.003
2NDPA	50.0	10.131	2970.1	81.9	0.003
DPA	200.0	11.561	5887.3	875.5	0.059
N-NitrosoDPA	75.0	12.367	1376.5	0	0.000
Avg. % Stabilizer for Lot					0.833 0.833
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.83 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

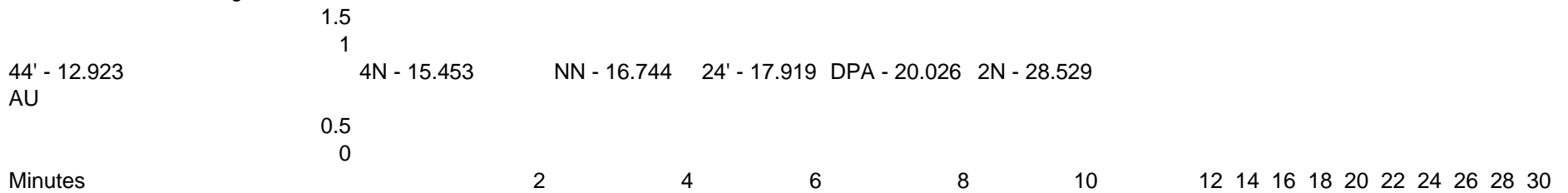
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

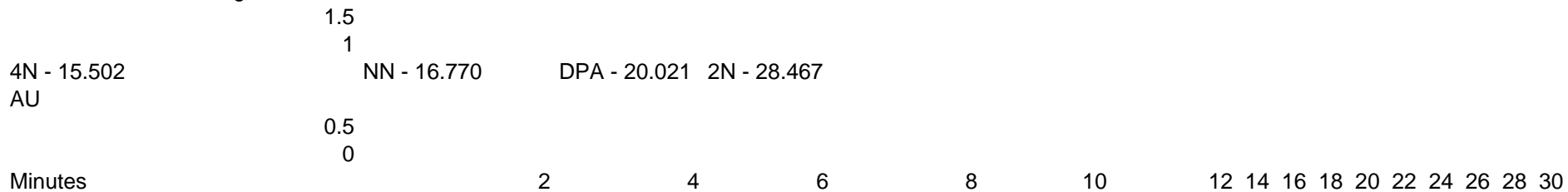
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81K070069		D533 / M6 propellant	
Date of analysis:		Date: 18 JULY 2012	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	133.9	472.9	0.353
2,4-DNDPA	50.0	3.365	949.7	0	0.000
2,2' DNDPA	50.0	5.091	2605.4	23514	0.000
2,4' DNDPA	50.0	7.514	1047.9	0	0.000
4NDPA	50.0	8.946	1698.8	56.6	0.003
2NDPA	50.0	10.142	3039.5	67.7	0.002
DPA	200.0	11.585	6044.7	691.5	0.046
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000

	0.404
Avg. % Stabilizer for Lot	0.404

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Takisha Dickerson	Avg. Tot. Stabilizers 0.40 % %
Analyst Signature	Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070166				D533 / M6 propellant	
Date of analysis:				Date: 18 JULY 2012	
Other Information M6 Propellant			Sample Data #1 0.50 g		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	133.9	383	0.286
2,4-DNDPA	50.0	3.365	949.7	0	0.000
2,2' DNDPA	50.0	5.091	2605.4	21631	0.000
2,4' DNDPA	50.0	7.514	1047.9	0	0.000
4NDPA	50.0	8.946	1698.8	53.4	0.003
2NDPA	50.0	10.142	3039.5	118.6	0.004
DPA	200.0	11.585	6044.7	767.9	0.051
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000
Avg. % Stabilizer for Lot					0.344 0.344
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.34 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84G070326				D533 / M6 propellant	
Date of analysis:				Date: 18 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	133.9	498.4	0.372
2,4-DNDPA	50.0	3.365	949.7	0	0.000
2,2' DNDPA	50.0	5.091	2605.4	24044	0.000
2,4' DNDPA	50.0	7.514	1047.9	0	0.000
4NDPA	50.0	8.946	1698.8	49.1	0.003
2NDPA	50.0	10.142	3039.5	84.6	0.003
DPA	200.0	11.585	6044.7	789.2	0.052
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000
				0.430	
				0.430	
Avg. % Stabilizer for Lot 0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.43 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070445				D533 / M6 propellant	
Date of analysis:				Date: 18 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	133.9	456.2	0.341
2,4-DNDPA	50.0	3.365	949.7	0	0.000
2,2' DNDPA	50.0	5.091	2605.4	22956	0.000
2,4' DNDPA	50.0	7.514	1047.9	0	0.000
4NDPA	50.0	8.946	1698.8	36.8	0.002
2NDPA	50.0	10.142	3039.5	70.9	0.002
DPA	200.0	11.585	6044.7	772.6	0.051
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000
				0.396	
				Avg. % Stabilizer for Lot	
				0.396	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86E070617					D533 / M6 propellant	
Date of analysis:					Date: 18 JULY 2012	
Other Information M6 Propellant				Sample Data #1		Solvent 100 ml ACN
0.50 g						
Standards (ERG-006)				Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.863	133.9	389.2	0.291	
2,4-DNDPA	50.0	3.365	949.7	0	0.000	
2,2' DNDPA	50.0	5.091	2605.4	22628	0.000	
2,4' DNDPA	50.0	7.514	1047.9	0	0.000	
4NDPA	50.0	8.946	1698.8	45.3	0.003	
2NDPA	50.0	10.142	3039.5	80.7	0.003	
DPA	200.0	11.585	6044.7	861.6	0.057	
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000	
						0.353
				Avg. % Stabilizer for Lot		0.353
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D						
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.35 %		
Analyst Signature				Stable <input type="checkbox"/> Unstable <input checked="" type="checkbox"/>		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

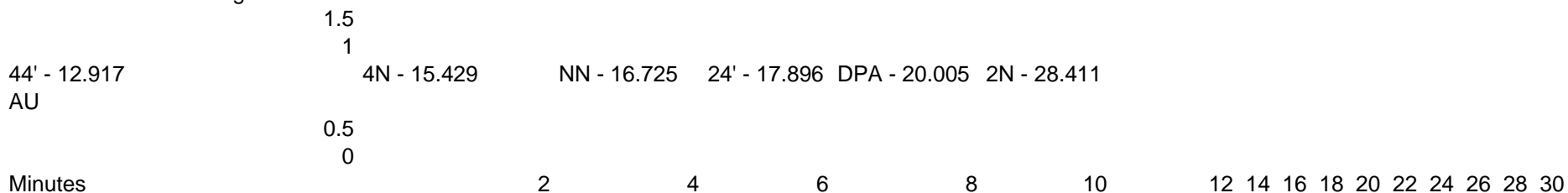
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

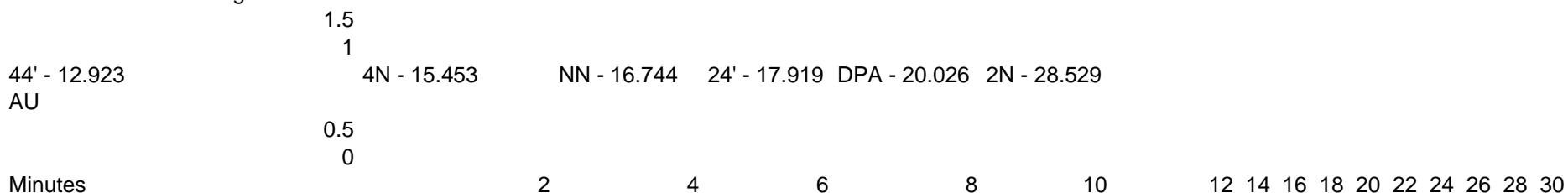
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

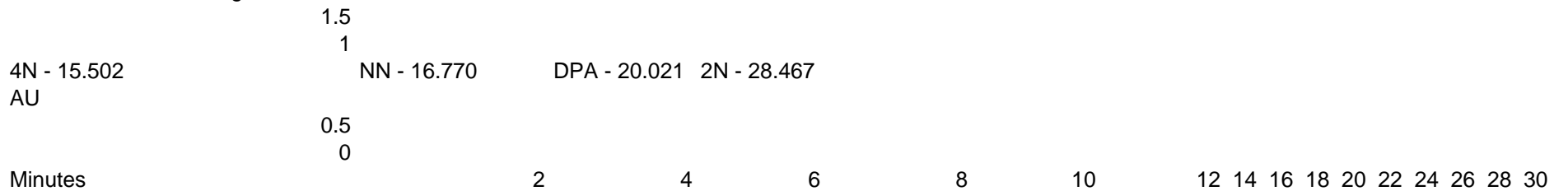
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86F070619				D533 / M6 propellant	
Date of analysis:				Date: 18 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.863	133.9	376.1	0.281
2,4-DNDPA	50.0	3.365	949.7	0	0.000
2,2' DNDPA	50.0	5.091	2605.4	23486	0.000
2,4' DNDPA	50.0	7.514	1047.9	0	0.000
4NDPA	50.0	8.946	1698.8	41.4	0.002
2NDPA	50.0	10.142	3039.5	69	0.002
DPA	200.0	11.585	6044.7	877.7	0.058
N-NitrosoDPA	75.0	12.4	1395.6	0	0.000
				0.344	
				0.344	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.34 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81E070021				D533 / M6 propellant	
Date of analysis:				Date: 23 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.847	108.1	491.8	0.455
2,4-DNDPA	50.0	3.366	967.8	0	0.000
2,2' DNDPA	50.0	5.09	4480	23864	0.000
2,4' DNDPA	50.0	7.496	1085.1	0	0.000
4NDPA	50.0	8.926	1772.8	68.3	0.004
2NDPA	50.0	9.898	1314.8	106.4	0.008
DPA	200.0	11.552	6236.1	805.7	0.052
N-NitrosoDPA	75.0	12.356	1452.1	0	0.000
				0.519	
				0.519	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.52 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND91H071485				D533 / M6 propellant	
Date of analysis:				Date: 23 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.847	108.1	464.3	0.430
2,4-DNDPA	50.0	3.366	967.8	0	0.000
2,2' DNDPA	50.0	5.09	4480	20931	0.000
2,4' DNDPA	50.0	7.496	1085.1	0	0.000
4NDPA	50.0	8.926	1772.8	169.1	0.010
2NDPA	50.0	9.898	1314.8	134.6	0.010
DPA	200.0	11.552	6236.1	208.7	0.013
N-NitrosoDPA	75.0	12.356	1452.1	0	0.000
				0.463	
				0.463	
Avg. % Stabilizer for Lot					
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.46 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND91J071488				D533 / M6 propellant	
Date of analysis:				Date: 23 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.847	108.1	530.4	0.491
2,4-DNDPA	50.0	3.366	967.8	0	0.000
2,2' DNDPA	50.0	5.09	4480	21092	0.000
2,4' DNDPA	50.0	7.496	1085.1	0	0.000
4NDPA	50.0	8.926	1772.8	105.9	0.006
2NDPA	50.0	9.898	1314.8	72.9	0.006
DPA	200.0	11.552	6236.1	540.6	0.035
N-NitrosoDPA	75.0	12.356	1452.1	0	0.000
				0.537	
				Avg. % Stabilizer for Lot 0.537	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.54 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82E070115				D533 / M6 propellant	
Date of analysis:				Date: 3 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.852	32.8	160.3	0.489
2,4-DNDPA	50.0	2.783	1021.1	26.6	0.003
2,2' DNDPA	50.0	4.159	4903.6	20493	0.000
2,4' DNDPA	50.0	5.418	1086.3	20.1	0.002
4NDPA	50.0	6.838	1800	28	0.002
2NDPA	50.0	7.743	3195	102.5	0.003
DPA	200.0	9.029	7883.3	176.9	0.009
N-NitrosoDPA	75.0	12.565	2567.6	0	0.000
				0.507	
				0.507	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.51 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070167				D533 / M6 propellant	
Date of analysis:				Date: 3 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.852	32.8	219.2	0.668
2,4-DNDPA	50.0	2.783	1021.1	0	0.000
2,2' DNDPA	50.0	4.159	4903.6	23368	0.000
2,4' DNDPA	50.0	5.418	1086.3	0	0.000
4NDPA	50.0	6.838	1800	189.8	0.011
2NDPA	50.0	7.743	3195	172.9	0.005
DPA	200.0	9.029	7883.3	900.6	0.046
N-NitrosoDPA	75.0	12.565	2567.6	0	0.000
				0.730	
				0.730	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.73 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

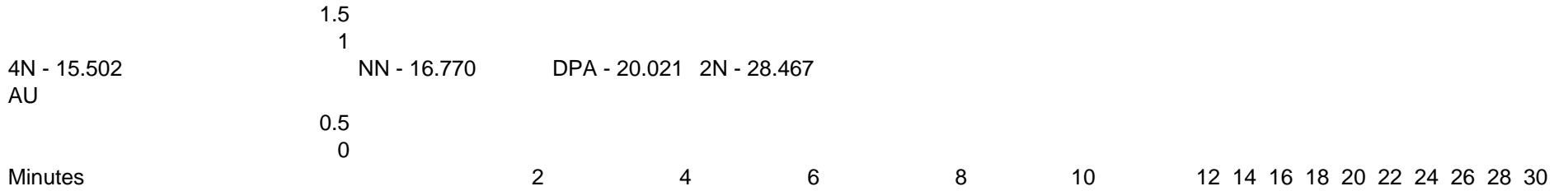
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070431						D533 / M6 propellant	
Date of analysis:						Date: 3 JULY 2012	
Other Information M6 Propellant				Sample Data #1		0.50 g	Solvent 100 ml ACN
Standards (ERG-006)					Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1		Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.852	32.8		414.2	1.263	
2,4-DNDPA	50.0	2.783	1021.1		0	0.000	
2,2' DNDPA	50.0	4.159	4903.6		22544	0.000	
2,4' DNDPA	50.0	5.418	1086.3		0	0.000	
4NDPA	50.0	6.838	1800		104.9	0.006	
2NDPA	50.0	7.743	3195		174.9	0.005	
DPA	200.0	9.029	7883.3		329.6	0.017	
N-NitrosoDPA	75.0	12.565	2567.6		0	0.000	
					1.291		
					1.291		
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.29 %			
Analyst Signature				Stable YES Unstable			
Lab. Supervisor Signature				Comments CATEGORY: A			
				Actions to be Taken			

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88A070890				D533 / M6 propellant	
Date of analysis:				Date: 3 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.852	32.8	106.3	0.324
2,4-DNDPA	50.0	2.783	1021.1	31.4	0.003
2,2' DNDPA	50.0	4.159	4903.6	25845	0.000
2,4' DNDPA	50.0	5.418	1086.3	81.1	0.007
4NDPA	50.0	6.838	1800	0	0.000
2NDPA	50.0	7.743	3195	1079.6	0.034
DPA	200.0	9.029	7883.3	0	0.000
N-NitrosoDPA	75.0	12.565	2567.6	0	0.000
				0.368	
				0.368	
				Avg. % Stabilizer for Lot	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.37 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88L070991				D533 / M6 propellant	
Date of analysis:				Date: 3 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.852	32.8	93.2	0.284
2,4-DNDPA	50.0	2.783	1021.1	31.4	0.003
2,2' DNDPA	50.0	4.159	4903.6	25759	0.000
2,4' DNDPA	50.0	5.418	1086.3	102.4	0.009
4NDPA	50.0	6.838	1800	1068.1	0.059
2NDPA	50.0	7.743	3195	0	0.000
DPA	200.0	9.029	7883.3	166.2	0.008
N-NitrosoDPA	75.0	12.565	2567.6	0	0.000
				0.364	
				0.364	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.36 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

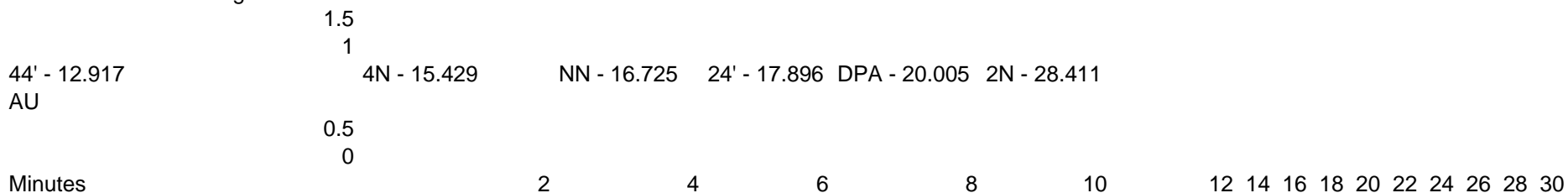
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

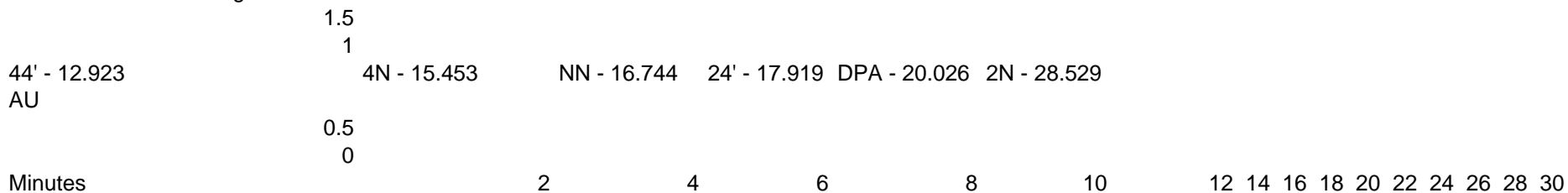
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070009				D533 / M6 propellant	
Date of analysis:				Date: 6 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.832	56.6	457.4	0.808
2,4-DNDPA	50.0	3.536	912.4	0	0.000
2,2' DNDPA	50.0	5.496	960.9	23670	0.000
2,4' DNDPA	50.0	8.309	986.9	0	0.000
4NDPA	50.0	9.894	1581.2	193.5	0.012
2NDPA	50.0	10.805	831.9	83.4	0.010
DPA	200.0	11.294	2040.1	0	0.000
N-NitrosoDPA	75.0	12.78	5511.5	0	0.000
				0.830	
				0.830	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.83 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83D070272					D533 / M6 propellant	
Date of analysis:					Date: 6 JULY 2012	
Other Information M6 Propellant				Sample Data		Solvent
				#1	0.50 g	100 ml ACN
Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1		Intg. Area	Conc. %
4,4' DNDPA	50.0	0.832	56.6		431.4	0.762
2,4-DNDPA	50.0	3.536	912.4		0	0.000
2,2' DNDPA	50.0	5.496	960.9		24369	0.000
2,4' DNDPA	50.0	8.309	986.9		0	0.000
4NDPA	50.0	9.894	1581.2		134.8	0.009
2NDPA	50.0	10.805	831.9		122.8	0.015
DPA	200.0	11.294	2040.1		0	0.000
N-NitrosoDPA	75.0	12.78	5511.5		0	0.000
					0.785	
					0.785	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D						
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.79 % %		
Analyst Signature				Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

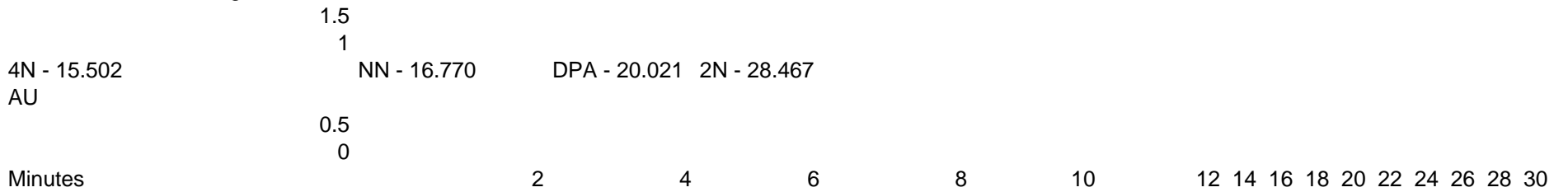
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

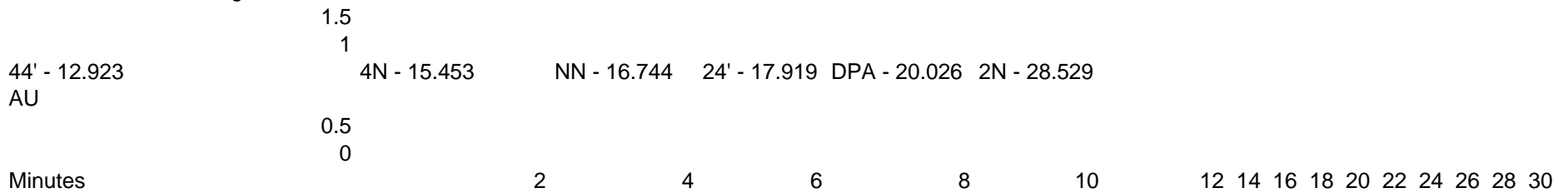
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070324				D533 / M6 propellant	
Date of analysis:				Date: 6 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.832	56.6	579.8	1.024
2,4-DNDPA	50.0	3.536	912.4	0	0.000
2,2' DNDPA	50.0	5.496	960.9	22091	0.000
2,4' DNDPA	50.0	8.309	986.9	0	0.000
4NDPA	50.0	9.894	1581.2	79.5	0.005
2NDPA	50.0	10.805	831.9	72.9	0.009
DPA	200.0	11.294	2040.1	0	0.000
N-NitrosoDPA	75.0	12.78	5511.5	0	0.000
				1.038	
				1.038	
				Avg. % Stabilizer for Lot	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 1.04 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88B070717				D533 / M6 propellant	
Date of analysis:				Date: 6 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.832	56.6	507.9	0.897
2,4-DNDPA	50.0	3.536	912.4	0	0.000
2,2' DNDPA	50.0	5.496	960.9	23069	0.000
2,4' DNDPA	50.0	8.309	986.9	161.6	0.016
4NDPA	50.0	9.894	1581.2	171.6	0.011
2NDPA	50.0	10.805	831.9	0	0.000
DPA	200.0	11.294	2040.1	315.3	0.062
N-NitrosoDPA	75.0	12.78	5511.5	0	0.000
				0.986	
				0.986	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.99 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

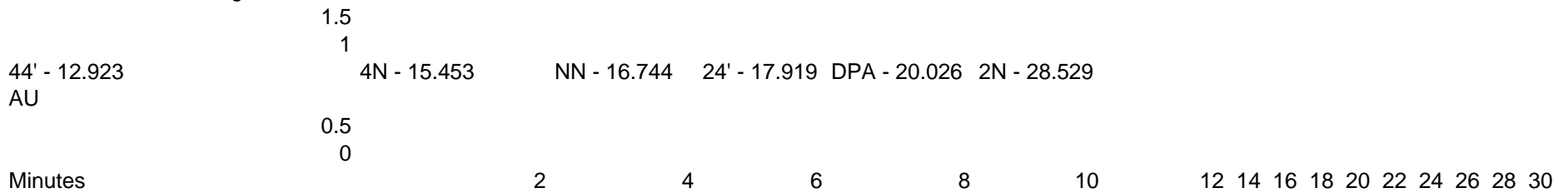
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89A070996				D533 / M6 propellant	
Date of analysis:				Date: 6 JULY 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.832	56.6	448.3	0.732
2,4-DNDPA	50.0	3.536	912.4	0	0.000
2,2' DNDPA	50.0	5.496	960.9	22126	0.000
2,4' DNDPA	50.0	8.309	986.9	0	0.000
4NDPA	50.0	9.894	1581.2	43.1	0.003
2NDPA	50.0	10.805	831.9	109.4	0.013
DPA	200.0	11.294	2040.1	0	0.000
N-NitrosoDPA	75.0	12.78	5511.5	0	0.000
				0.808	
				0.808	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.81 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

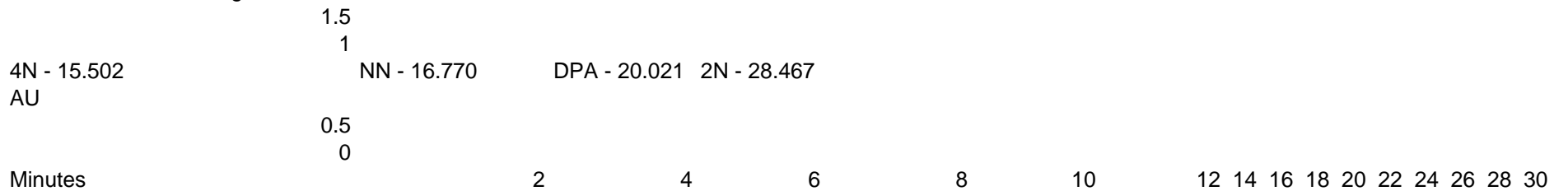
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81L070074				D533 / M6 propellant	
Date of analysis:				Date: 21 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.864	28.8	242.8	0.843
2,4-DNDPA	50.0	3.374	926.7	0	0.000
2,2' DNDPA	50.0	5.094	2365.5	24332	0.000
2,4' DNDPA	50.0	7.365	1016.5	0	0.000
4NDPA	50.0	8.868	1646.6	73	0.004
2NDPA	50.0	10.034	2925.2	131.5	0.004
DPA	200.0	11.552	5759.3	785.6	0.055
N-NitrosoDPA	75.0	12.364	1368	0	0.000
				0.907	
				Avg. % Stabilizer for Lot	
				0.907	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.91 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

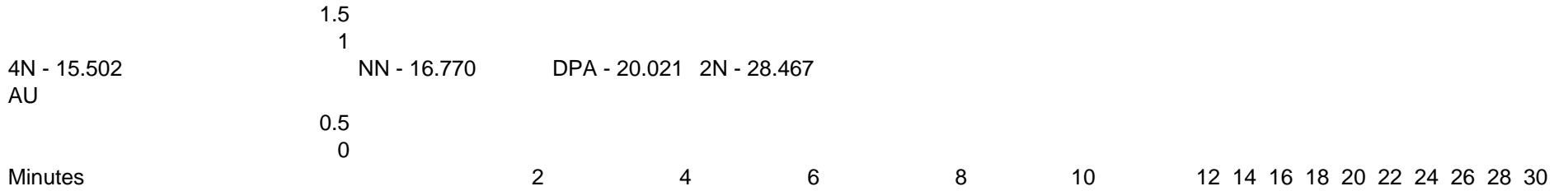
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070432				D533 / M6 propellant	
Date of analysis:				Date: 21 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.864	28.8	174.9	0.607
2,4-DNDPA	50.0	3.374	926.7	0	0.000
2,2' DNDPA	50.0	5.094	2365.5	21638	0.000
2,4' DNDPA	50.0	7.365	1016.5	0	0.000
4NDPA	50.0	8.868	1646.6	171.7	0.010
2NDPA	50.0	10.034	2925.2	220.6	0.008
DPA	200.0	11.552	5759.3	169.8	0.012
N-NitrosoDPA	75.0	12.364	1368	0	0.000
				0.637	
				0.637	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.64 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

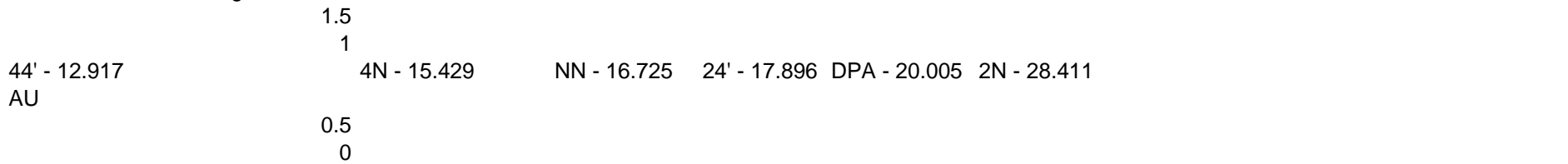
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

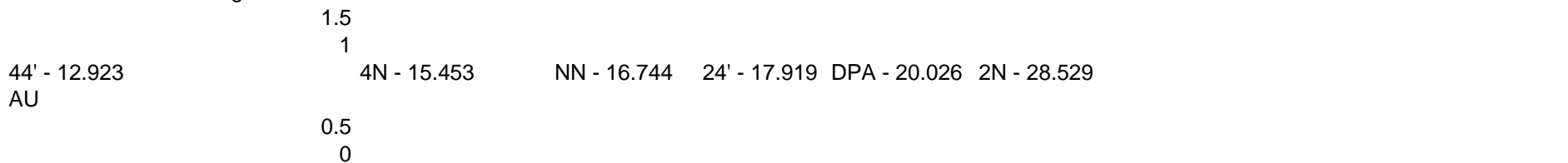
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070103					D533 / M6 propellant	
Date of analysis:					Date: 28 June 2012	
Other Information M6 Propellant				Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.874	19.1	98.8	0.517	
2,4-DNDPA	50.0	3.347	961.1	0	0.000	
2,2' DNDPA	50.0	5.046	4032.7	42584	0.000	
2,4' DNDPA	50.0	6.347	22	85.4	0.388	
4NDPA	50.0	7.273	1080.1	73.3	0.007	
2NDPA	50.0	8.74	1782.9	508.9	0.029	
DPA	200.0	9.886	3122.3	493.1	0.063	
N-NitrosoDPA	75.0	11.353	6047.1	618.6	0.000	
					1.004	
Avg. % Stabilizer for Lot					1.004	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D						
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.00 % %		
Analyst Signature				Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

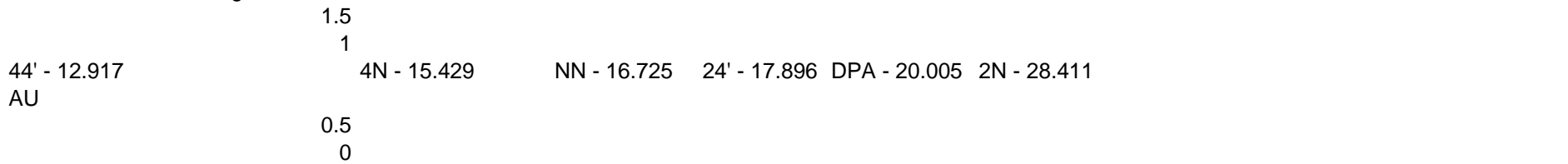
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

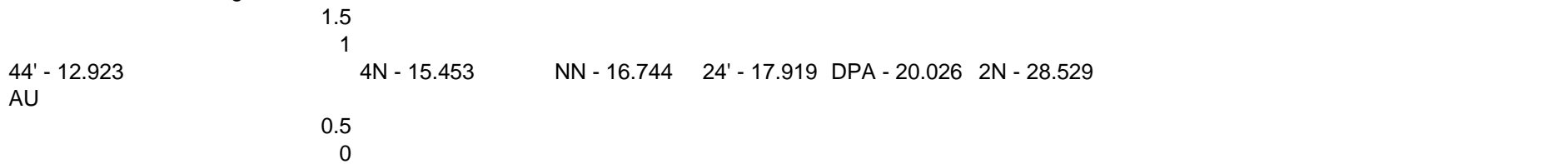
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84CG69842				D533 / M6 propellant	
Date of analysis:				Date: 28 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	19.1	112.7	0.590
2,4-DNDPA	50.0	3.347	961.1	0	0.000
2,2' DNDPA	50.0	5.046	4032.7	24203	0.000
2,4' DNDPA	50.0	6.347	22	0	0.000
4NDPA	50.0	7.273	1080.1	0	0.000
2NDPA	50.0	8.74	1782.9	178.3	0.010
DPA	200.0	9.886	3122.3	198.8	0.025
N-NitrosoDPA	75.0	11.353	6047.1	125.4	0.000
				0.626	
				0.626	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.63 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

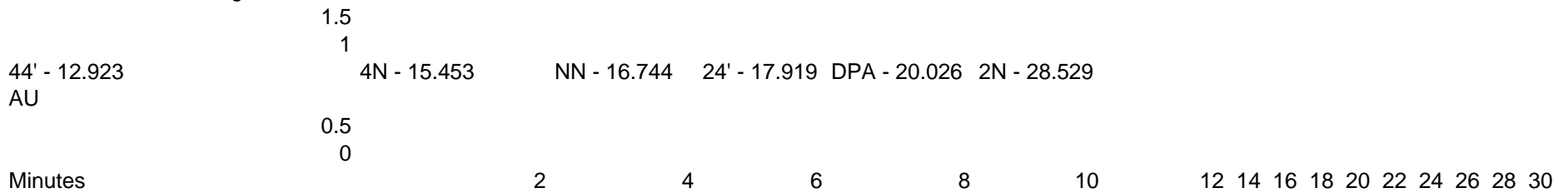
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070449				D533 / M6 propellant	
Date of analysis:				Date: 28 June 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	19.1	67.7	0.354
2,4-DNDPA	50.0	3.347	961.1	0	0.000
2,2' DNDPA	50.0	5.046	4032.7	22342	0.000
2,4' DNDPA	50.0	6.347	22	30.2	0.137
4NDPA	50.0	7.273	1080.1	0	0.000
2NDPA	50.0	8.74	1782.9	179.7	0.010
DPA	200.0	9.886	3122.3	153.7	0.020
N-NitrosoDPA	75.0	11.353	6047.1	305.6	0.000
				0.521	
				0.521	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.52 %		
Analyst Signature			Stable <input type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85E070583					D533 / M6 propellant	
Date of analysis:					Date: 28 June 2012	
Other Information M6 Propellant				Sample Data		Solvent
				#1	0.50 g	100 ml ACN
Standards (ERG-006)					Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %	
4,4' DNDPA	50.0	0.874	19.1	46.8	0.245	
2,4-DNDPA	50.0	3.347	961.1	21	0.002	
2,2' DNDPA	50.0	5.046	4032.7	22763	0.000	
2,4' DNDPA	50.0	6.347	22	32.4	0.147	
4NDPA	50.0	7.273	1080.1	0	0.000	
2NDPA	50.0	8.74	1782.9	178.8	0.010	
DPA	200.0	9.886	3122.3	267	0.034	
N-NitrosoDPA	75.0	11.353	6047.1	367.6	0.000	
					0.439	
Avg. % Stabilizer for Lot					0.439	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D						
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.44 % %		
Analyst Signature				Stable <input type="checkbox"/> Unstable <input type="checkbox"/>		
Lab. Supervisor Signature				Comments CATEGORY: A		
				Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

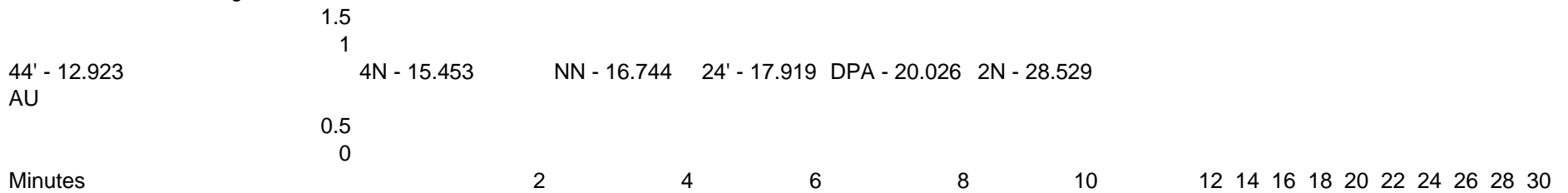
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81E070022				D533 / M6 propellant	
Date of analysis:				Date: 29 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	48.7	108.6	0.223
2,4-DNDPA	50.0	3.265	1031.8	26	0.003
2,2' DNDPA	50.0	4.888	3957	30336	0.000
2,4' DNDPA	50.0	6.927	1035.6	50.3	0.005
4NDPA	50.0	8.235	1690.1	250.9	0.015
2NDPA	50.0	9.279	3054.3	300.6	0.010
DPA	200.0	10.655	5843.7	588.9	0.040
N-NitrosoDPA	75.0	11.092	1725.8	0	0.000
				0.295	
				Avg. % Stabilizer for Lot	
				0.295	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst			Kisha Dickerson		Avg. Tot. Stabilizers
Analyst Signature					0.30 %
Lab. Supervisor Signature					Stable YES Unstable
					Comments
					CATEGORY: A
					Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89E071041				D533 / M6 propellant	
Date of analysis:				Date: 29 JUNE 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	48.7	154.8	0.318
2,4-DNDPA	50.0	3.265	1031.8	0	0.000
2,2' DNDPA	50.0	4.888	3957	26104	0.000
2,4' DNDPA	50.0	6.927	1035.6	0	0.000
4NDPA	50.0	8.235	1690.1	72	0.004
2NDPA	50.0	9.279	3054.3	119.1	0.004
DPA	200.0	10.655	5843.7	978.5	0.067
N-NitrosoDPA	75.0	11.092	1725.8	0	0.000
				0.393	
				Avg. % Stabilizer for Lot	
				0.393	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Kisha Dickerson				Avg. Tot. Stabilizers 0.39 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

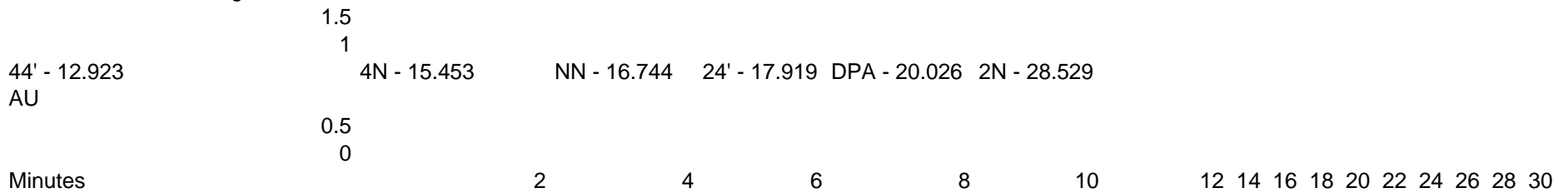
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

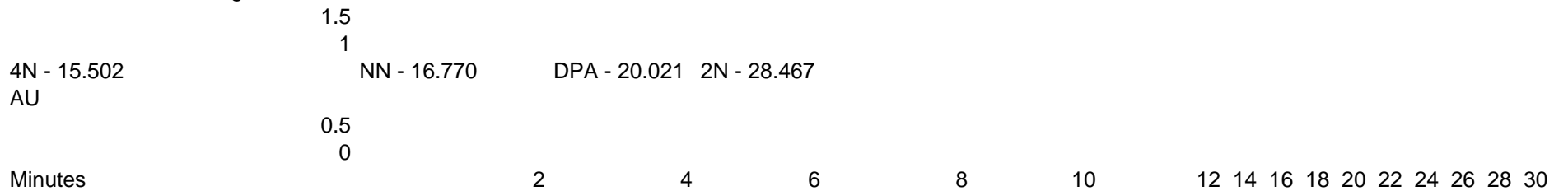
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82M070221				D533 / M6 propellant	
Date of analysis:				Date: 15 NOVEMBER 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.777	120.1	775.4	0.646
2,4-DNDPA	50.0	3.265	905.3	38.1	0.004
2,2' DNDPA	50.0	4.904	971.9	21937	0.000
2,4' DNDPA	50.0	6.986	984.1	0	0.000
4NDPA	50.0	8.404	1581.9	182.2	0.012
2NDPA	50.0	9.518	2885.3	236.9	0.008
DPA	200.0	10.92	5165.2	420.6	0.033
N-NitrosoDPA	75.0	11.644	1772.9	0	0.000
				0.702	
				0.702	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.70 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

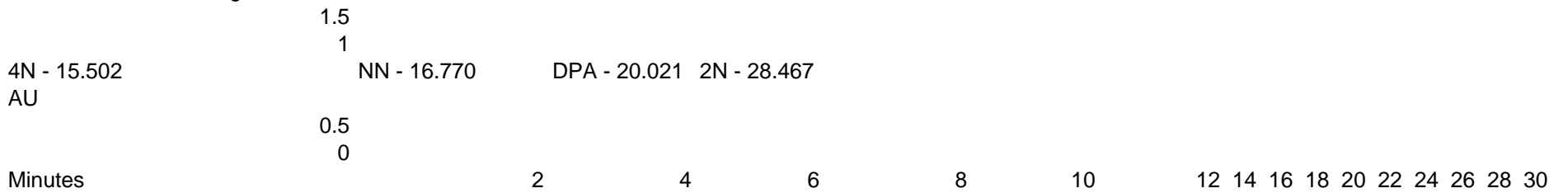
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84C070329				D533 / M6 propellant	
Date of analysis:				Date: 26 NOVEMBER 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.751	179.1	1069.5	0.597
2,4-DNDPA	50.0	3.127	893	0	0.000
2,2' DNDPA	50.0	4.705	1469.7	23959	0.000
2,4' DNDPA	50.0	6.675	967.6	0	0.000
4NDPA	50.0	8.098	1552	53.9	0.003
2NDPA	50.0	9.165	2833.6	84.1	0.003
DPA	200.0	10.568	5047.1	489.1	0.039
N-NitrosoDPA	75.0	11.233	1815.4	0	0.000
				0.642	
				0.642	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.64 % %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070448				D533 / M6 propellant	
Date of analysis:				Date: 26 NOVEMBER 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
0.50 g					
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.751	179.1	1402.1	0.783
2,4-DNDPA	50.0	3.127	893	14.3	0.002
2,2' DNDPA	50.0	4.705	1469.7	23109	0.000
2,4' DNDPA	50.0	6.675	967.6	22.1	0.002
4NDPA	50.0	8.098	1552	161.2	0.010
2NDPA	50.0	9.165	2833.6	187.2	0.007
DPA	200.0	10.568	5047.1	224.7	0.018
N-NitrosoDPA	75.0	11.233	1815.4	0	0.000
				0.822	
				0.822	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.82 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87A070676				D533 / M6 propellant	
Date of analysis:				Date: 01 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.867	49.2	446.3
2.4-DNDPA	50.0		3.446	935	16.7
2.2' DNDPA	50.0		5.252	2521.4	29560
2.4' DNDPA	50.0		7.832	994	0
4NDPA	50.0		9.347	1572.8	156.2
2NDPA	50.0		10.666	2790	168.2
DPA	200.0		11.954	5669.1	512.9
N-NitrosoDPA	75.0		13.033	1430.1	0
Avg. % Stabilizer for Lot					0.961 0.961
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.96 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87B070679				D533 / M6 propellant	
Date of analysis:				Date: 12 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.813	42.3	425.5
2,4-DNDPA	50.0		3.281	878.3	63.3
2,2' DNDPA	50.0		4.912	741.7	23630
2,4' DNDPA	50.0		6.953	954.9	71.4
4NDPA	50.0		8.378	1529.5	220.1
2NDPA	50.0		9.467	2740	316.6
DPA	200.0		10.876	5372	906.4
N-NitrosoDPA	75.0		11.581	1368	103.2
Avg. % Stabilizer for Lot					1.114 1.114
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.11 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

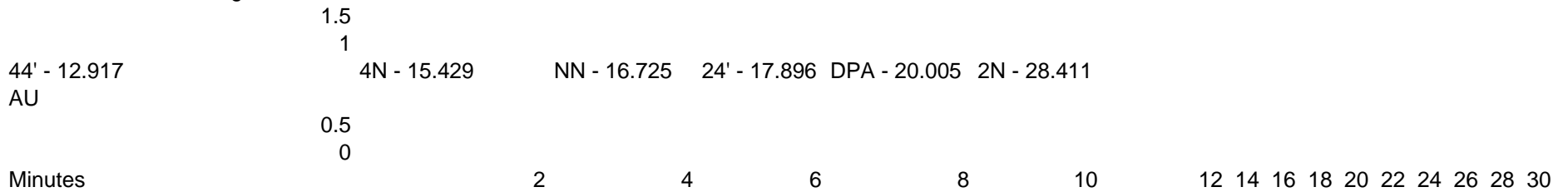
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

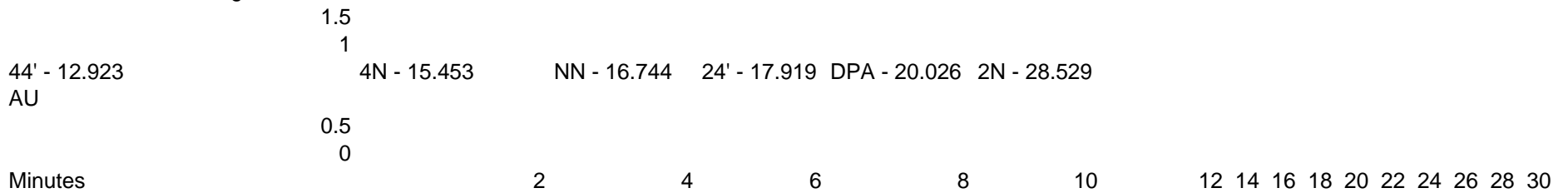
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070848				D533 / M6 propellant	
Date of analysis:				Date: 12 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.813	42.3	403 0.953
2,4-DNDPA	50.0		3.281	878.3	0 0.000
2,2' DNDPA	50.0		4.912	741.7	23518 0.000
2,4' DNDPA	50.0		6.953	954.9	0 0.000
4NDPA	50.0		8.378	1529.5	129.1 0.008
2NDPA	50.0		9.467	2740	107.4 0.004
DPA	200.0		10.876	5372	446.2 0.033
N-NitrosoDPA	75.0		11.581	1368	0 0.000
				0.998	
				Avg. % Stabilizer for Lot 0.998	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.00 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070011				D533 / M6 propellant	
Date of analysis:				Date: 17 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.793	69.4	559.2 0.806
2,4-DNDPA	50.0		3.351	810.1	0 0.000
2,2' DNDPA	50.0		5.093	2593.1	22606 0.000
2,4' DNDPA	50.0		7.403	877.1	0 0.000
4NDPA	50.0		8.867	1417.6	40.1 0.003
2NDPA	50.0		10.073	2577.5	72.2 0.003
DPA	200.0		11.468	4987.6	721.5 0.058
N-NitrosoDPA	75.0		12.273	1302.7	0 0.000
				0.869	
				Avg. % Stabilizer for Lot 0.869	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.87 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

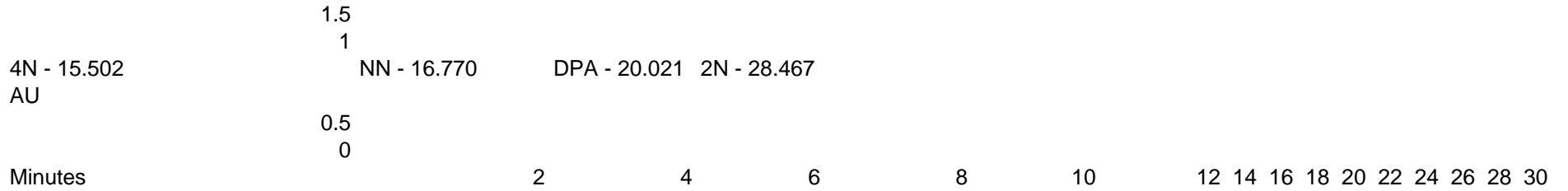
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84D070334				D533 / M6 propellant	
Date of analysis:				Date: 17 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.793	69.4	527.6
2,4-DNDPA	50.0		3.351	810.1	15.2
2,2' DNDPA	50.0		5.093	2593.1	22783
2,4' DNDPA	50.0		7.403	877.1	0
4NDPA	50.0		8.867	1417.6	70.1
2NDPA	50.0		10.073	2577.5	132.2
DPA	200.0		11.468	4987.6	797.5
N-NitrosoDPA	75.0		12.273	1302.7	0
					0.836
Avg. % Stabilizer for Lot					0.836
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.84 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

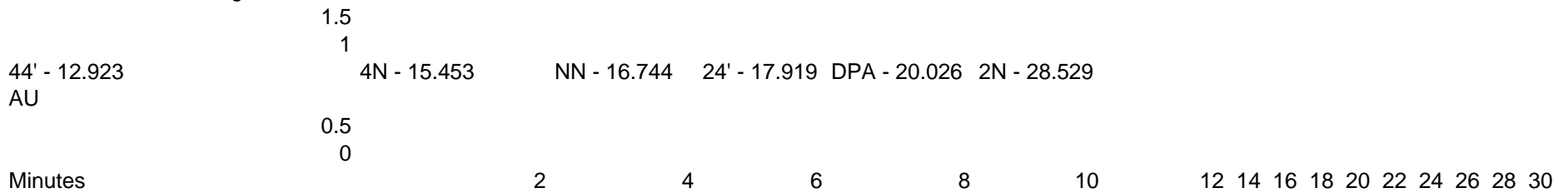
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86M070674				D533 / M6 propellant	
Date of analysis:				Date: 17 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.793	69.4	640.1 0.922
2,4-DNDPA	50.0		3.351	810.1	0 0.000
2,2' DNDPA	50.0		5.093	2593.1	24484 0.000
2,4' DNDPA	50.0		7.403	877.1	0 0.000
4NDPA	50.0		8.867	1417.6	53.7 0.004
2NDPA	50.0		10.073	2577.5	70.6 0.003
DPA	200.0		11.468	4987.6	868.1 0.070
N-NitrosoDPA	75.0		12.273	1302.7	0 0.000
				0.998	
				Avg. % Stabilizer for Lot 0.998	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.00 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87H070720				D533 / M6 propellant	
Date of analysis:				Date: 17 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.793	69.4	251.4	0.362
2,4-DNDPA	50.0	3.351	810.1	0	0.000
2,2' DNDPA	50.0	5.093	2593.1	24584	0.000
2,4' DNDPA	50.0	7.403	877.1	52.4	0.006
4NDPA	50.0	8.867	1417.6	100.6	0.007
2NDPA	50.0	10.073	2577.5	701.9	0.027
DPA	200.0	11.468	4987.6	0	0.000
N-NitrosoDPA	75.0	12.273	1302.7	0	0.000
Avg. % Stabilizer for Lot				0.403 0.403	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070513				D533 / M6 propellant	
Date of analysis:				Date: 23 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.781	150.6	474.8	0.315
2.4-DNDPA	50.0	3.299	859	0	0.000
2.2' DNDPA	50.0	4.949	1252.4	32515	0.000
2.4' DNDPA	50.0	6.998	932.1	0	0.000
4NDPA	50.0	8.429	1498.7	101	0.007
2NDPA	50.0	9.537	2711.8	154.4	0.006
DPA	200.0	10.968	5123.7	964	0.075
N-NitrosoDPA	75.0	11.691	1530.6	0	0.000
				0.403	
				Avg. % Stabilizer for Lot	
				0.403	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86H070622				D533 / M6 propellant	
Date of analysis:				Date: 23 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.781	150.6	1076.7	0.715
2,4-DNDPA	50.0	3.299	859	113.3	0.013
2,2' DNDPA	50.0	4.949	1252.4	24275	0.000
2,4' DNDPA	50.0	6.998	932.1	0	0.000
4NDPA	50.0	8.429	1498.7	45.3	0.003
2NDPA	50.0	9.537	2711.8	93.3	0.003
DPA	200.0	10.968	5123.7	585.9	0.046
N-NitrosoDPA	75.0	11.691	1530.6	286	0.000
Avg. % Stabilizer for Lot					0.780 0.780
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.78 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

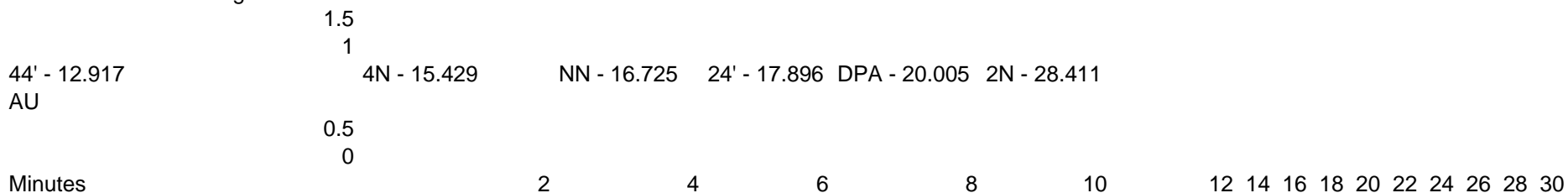
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

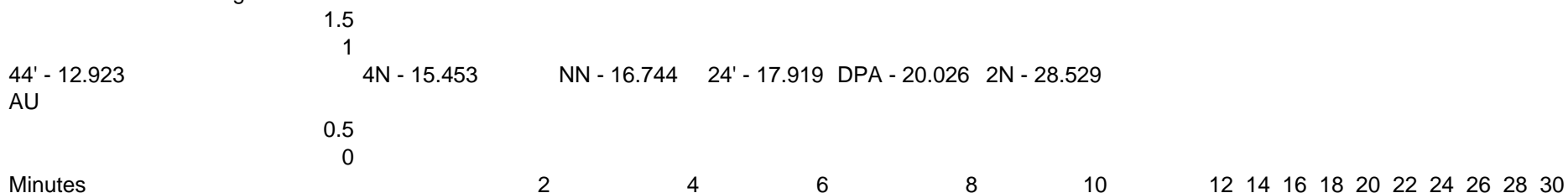
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

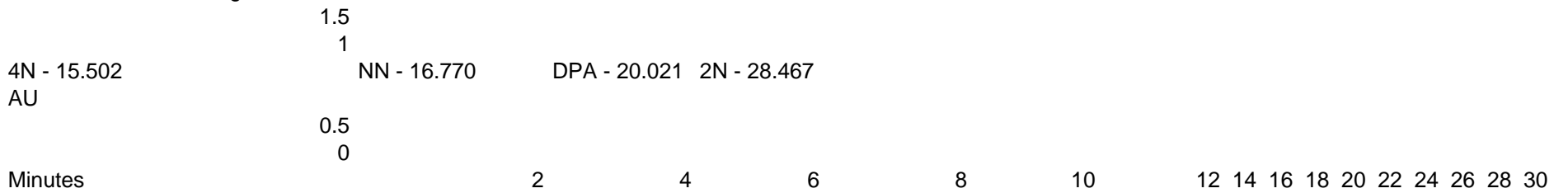
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86J070625				D533 / M6 propellant	
Date of analysis:				Date: 24 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.784	163	568.9	0.349
2,4-DNDPA	50.0	3.299	808.4	19.5	0.002
2,2' DNDPA	50.0	4.947	2591.5	24174	0.000
2,4' DNDPA	50.0	7.024	871.2	58	0.007
4NDPA	50.0	8.466	1408.7	105	0.007
2NDPA	50.0	9.578	2554.8	754.5	0.030
DPA	200.0	11.01	4783.9	0	0.000
N-NitrosoDPA	75.0	11.732	1511.1	0	0.000
				0.395	
				Avg. % Stabilizer for Lot 0.395	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.40 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88J070969				D533 / M6 propellant	
Date of analysis:				Date: 24 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.784	163	776.6	0.476
2,4-DNDPA	50.0	3.299	808.4	0	0.000
2,2' DNDPA	50.0	4.947	2591.5	24054	0.000
2,4' DNDPA	50.0	7.024	871.2	0	0.000
4NDPA	50.0	8.466	1408.7	50.3	0.004
2NDPA	50.0	9.578	2554.8	81.2	0.003
DPA	200.0	11.01	4783.9	969.1	0.081
N-NitrosoDPA	75.0	11.732	1511.1	286	0.000
				0.564	
				Avg. % Stabilizer for Lot 0.564	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.56 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number:				BALL POWDER	
Date of analysis:				Date: 25 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.781	229.9	2751.3	1.197
2.4-DNDPA	50.0	3.302	861.4	50.5	0.006
2.2' DNDPA	50.0	4.957	761.5	725.1	0.000
2.4' DNDPA	50.0	7.059	932.5	38.7	0.004
4NDPA	50.0	8.512	1471	106.8	0.007
2NDPA	50.0	9.647	2654.4	411.4	0.015
DPA	200.0	11.079	4910.3	681.8	0.056
N-NitrosoDPA	75.0	11.811	2046.8	0	0.000
				1.285	
				Avg. % Stabilizer for Lot 1.285	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.29 %		
Analyst Signature			Stable YES Unstable		
			Comments CATEGORY: A		
Lab. Supervisor Signature			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070444				D533 / M6 propellant	
Date of analysis:				Date: 31 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.783	170.1	1091	0.641
2.4-DNDPA	50.0	3.293	868.9	0	0.000
2.2' DNDPA	50.0	4.949	1326.7	23539	0.000
2.4' DNDPA	50.0	7.051	937	0	0.000
4NDPA	50.0	8.498	1504.5	62.9	0.004
2NDPA	50.0	9.613	2758.3	145.2	0.005
DPA	200.0	11.037	5012.1	729.9	0.058
N-NitrosoDPA	75.0	11.769	1683.4	0	0.000
0.709					
Avg. % Stabilizer for Lot					0.709
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.71 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89C070967				D533 / M6 propellant	
Date of analysis:				Date: 04 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.87	26.6	415.5	1.562
2.4-DNDPA	50.0	3.466	995	159	0.016
2.2' DNDPA	50.0	5.333	1461.8	20517	0.000
2.4' DNDPA	50.0	8.085	1064.8	162.4	0.015
4NDPA	50.0	9.602	1713.4	322.5	0.019
2NDPA	50.0	10.955	2975.3	239.9	0.008
DPA	200.0	12.195	6085.3	1643.7	0.108
N-NitrosoDPA	75.0	13.37	1430.1	261.4	0.000
				1.728	
				Avg. % Stabilizer for Lot 1.728	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.73 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89D071040				D533 / M6 propellant	
Date of analysis:				Date: 04 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.87	26.6	326	1.226
2.4-DNDPA	50.0	3.466	995	0	0.000
2.2' DNDPA	50.0	5.333	1461.8	27193	0.000
2.4' DNDPA	50.0	8.085	1064.8	0	0.000
4NDPA	50.0	9.602	1713.4	72.5	0.004
2NDPA	50.0	10.955	2975.3	105.6	0.004
DPA	200.0	12.195	6085.3	799.7	0.053
N-NitrosoDPA	75.0	13.37	1430.1	0	0.000
				1.286	
				Avg. % Stabilizer for Lot 1.286	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.29 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

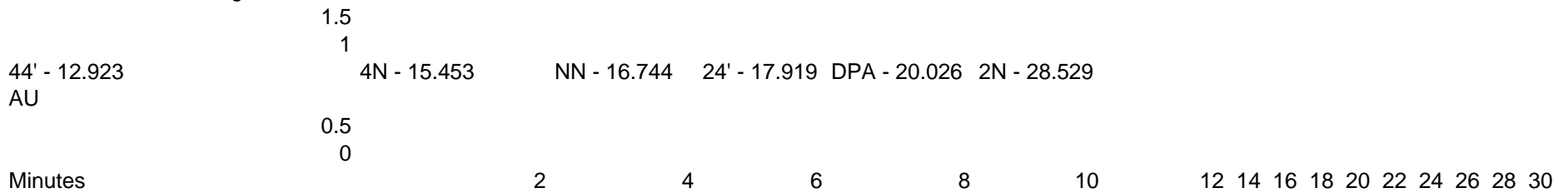
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

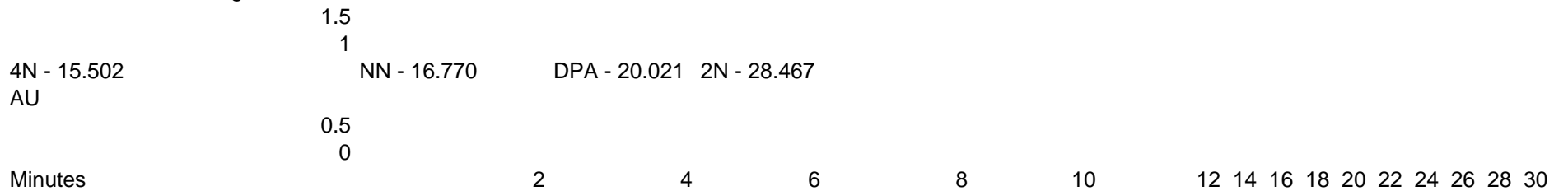
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND8C070589				D533 / M6 propellant	
Date of analysis:				Date: 08 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.815	26.2	98.2
2,4-DNDPA	50.0		3.334	872.2	0
2,2' DNDPA	50.0		5.035	1036.7	24326
2,4' DNDPA	50.0		7.214	948	0
4NDPA	50.0		8.672	1530.6	0
2NDPA	50.0		9.818	3099.9	56.5
DPA	200.0		11.249	5285.3	0
N-NitrosoDPA	75.0		12.005	1327	599.6
				0.377	
				Avg. % Stabilizer for Lot 0.377	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.38 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

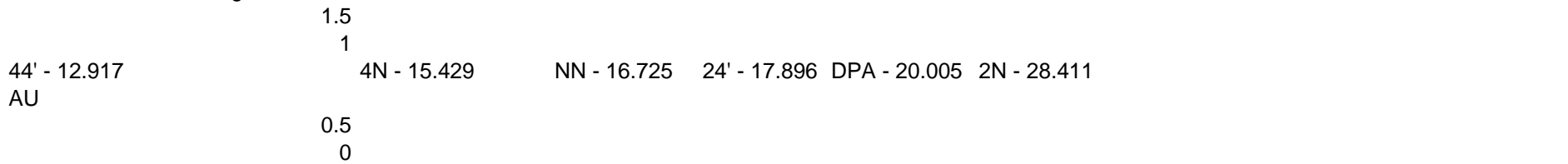
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Minutes 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

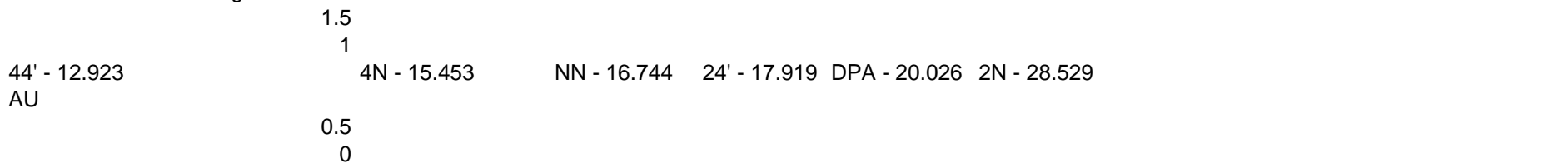
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Minutes 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86H070621				D533 / M6 propellant	
Date of analysis:				Date: 08 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.815	26.2	450 1.718
2.4-DNDPA	50.0		3.334	872.2	0 0.000
2.2' DNDPA	50.0		5.035	1036.7	26599 0.000
2.4' DNDPA	50.0		7.214	948	0 0.000
4NDPA	50.0		8.672	1530.6	69.8 0.005
2NDPA	50.0		9.818	3099.9	151.5 0.005
DPA	200.0		11.249	5285.3	782.2 0.059
N-NitrosoDPA	75.0		12.005	1327	0 0.000
				1.786	
				Avg. % Stabilizer for Lot 1.786	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.79 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070277				D533 / M6 propellant	
Date of analysis:				Date: 09 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.81	49.3	391.3	0.794
2.4-DNDPA	50.0	3.281	851	0	0.000
2.2' DNDPA	50.0	4.921	1138.9	24020	0.000
2.4' DNDPA	50.0	7.019	921.5	323.3	0.035
4NDPA	50.0	8.286	1486.9	121.4	0.008
2NDPA	50.0	9.313	2654.8	165.2	0.006
DPA	200.0	10.745	5184.7	364.8	0.028
N-NitrosoDPA	75.0	11.458	1326	0	0.000
				0.871	
				Avg. % Stabilizer for Lot 0.871	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.87 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84C070331				D533 / M6 propellant	
Date of analysis:				Date: 09 OCT 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.81	49.3	233.8	0.474
2,4-DNDPA	50.0	3.281	851	16.7	0.002
2,2' DNDPA	50.0	4.921	1138.9	26304	0.000
2,4' DNDPA	50.0	7.019	921.5	0	0.000
4NDPA	50.0	8.286	1486.9	137.7	0.009
2NDPA	50.0	9.313	2654.8	174	0.007
DPA	200.0	10.745	5184.7	689.6	0.053
N-NitrosoDPA	75.0	11.458	1326	0	0.000
Avg. % Stabilizer for Lot					0.545
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.55 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84L070455				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.878	38	382.5	1.007
2.4-DNDPA	50.0	3.469	956.6	0	0.000
2.2' DNDPA	50.0	5.366	516.6	23293	0.000
2.4' DNDPA	50.0	7.936	1019.9	0	0.000
4NDPA	50.0	9.415	1618.4	56.1	0.003
2NDPA	50.0	10.707	2844	74	0.003
DPA	200.0	12.006	5780.2	733.1	0.051
N-NitrosoDPA	75.0	13.019	1452.3	0	0.000
				1.063	
				Avg. % Stabilizer for Lot 1.063	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 1.06 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89B071036				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0	0.878	38	353.5	0.930
2.4-DNDPA	50.0	3.469	956.6	0	0.000
2.2' DNDPA	50.0	5.366	516.6	22457	0.000
2.4' DNDPA	50.0	7.936	1019.9	0	0.000
4NDPA	50.0	9.415	1618.4	43.5	0.003
2NDPA	50.0	10.707	2844	79.3	0.003
DPA	200.0	12.006	5780.2	743.3	0.051
N-NitrosoDPA	75.0	13.019	1452.3	0	0.000
				0.987	
				Avg. % Stabilizer for Lot 0.987	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.99 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

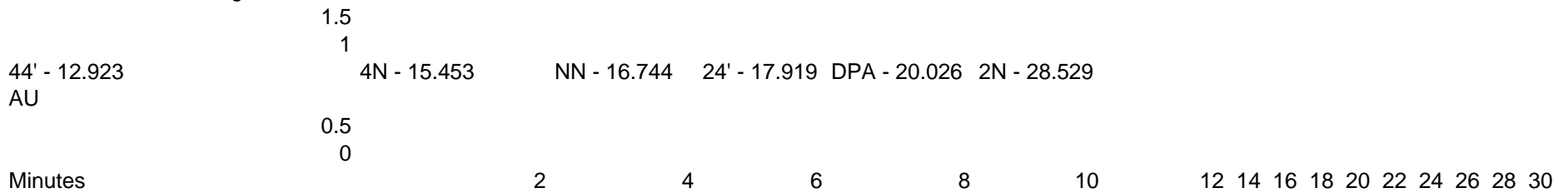
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

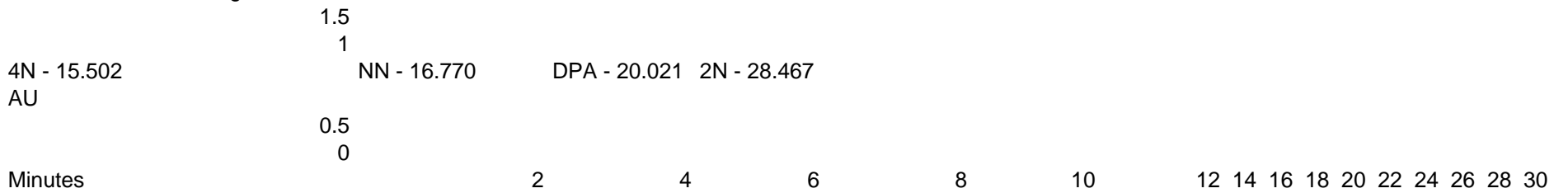
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
 Peak Results
 Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND89D071039				D533 / M6 propellant	
Date of analysis:				Date: 21 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.878	38	188.9	0.497
2,4-DNDPA	50.0	3.469	956.6	0	0.000
2,2' DNDPA	50.0	5.366	516.6	21344	0.000
2,4' DNDPA	50.0	7.936	1019.9	0	0.000
4NDPA	50.0	9.415	1618.4	80.3	0.005
2NDPA	50.0	10.707	2844	100.2	0.004
DPA	200.0	12.006	5780.2	973.6	0.067
N-NitrosoDPA	75.0	13.019	1452.3	0	0.000
				0.573	
				Avg. % Stabilizer for Lot 0.573	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.57 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84C070328				D533 / M6 propellant	
Date of analysis:				Date: 27 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.861	19.6	171.6 0.876
2,4-DNDPA	50.0		3.406	926.1	0 0.000
2,2' DNDPA	50.0		5.187	1353.5	20515 0.000
2,4' DNDPA	50.0		7.621	982	0 0.000
4NDPA	50.0		9.118	1616.4	66.2 0.004
2NDPA	50.0		10.394	2981.9	129.9 0.004
DPA	200.0		11.74	5902.4	671.5 0.046
N-NitrosoDPA	75.0		12.729	1494.9	0 0.000
				0.929	
				Avg. % Stabilizer for Lot 0.929	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.93 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

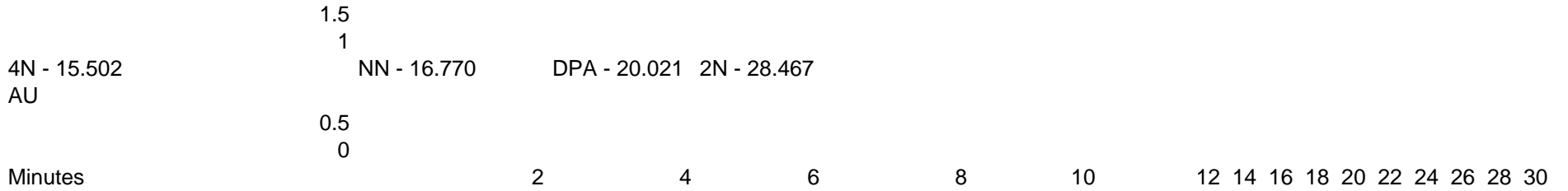
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND885D070517				D533 / M6 propellant	
Date of analysis:				Date: 27 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.861	19.6	102.9
2,4-DNDPA	50.0		3.406	926.1	0
2,2' DNDPA	50.0		5.187	1353.5	23243
2,4' DNDPA	50.0		7.621	982	0
4NDPA	50.0		9.118	1616.4	58.7
2NDPA	50.0		10.394	2981.9	96.1
DPA	200.0		11.74	5902.4	528.2
N-NitrosoDPA	75.0		12.729	1494.9	0
					0.568
Avg. % Stabilizer for Lot					0.568
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.57 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070061				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	276.2 / 0.566
2,4-DNDPA	50.0		3.418	914.3	16.2 / 0.002
2,2' DNDPA	50.0		5.22	777.3	23539 / 0.000
2,4' DNDPA	50.0		7.622	980.5	0 / 0.000
4NDPA	50.0		9.134	1586.8	113.7 / 0.007
2NDPA	50.0		10.417	2826.3	150.5 / 0.005
DPA	200.0		11.797	5671.5	589.4 / 0.042
N-NitrosoDPA	75.0		12.757	1337.5	0 / 0.000
Avg. % Stabilizer for Lot					0.622
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.62 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

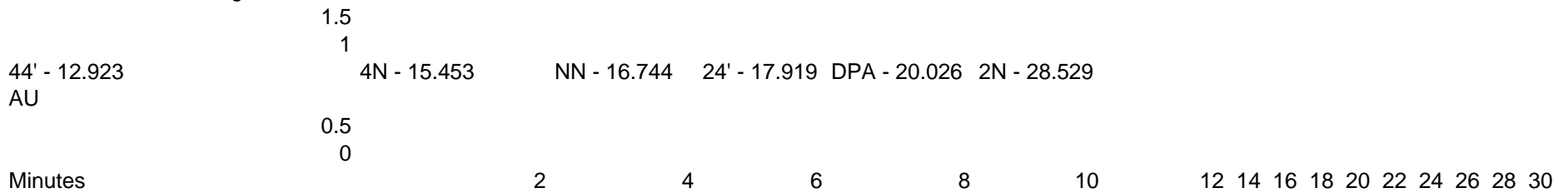
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070274				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	443.4 0.909
2,4-DNDPA	50.0		3.418	914.3	0 0.000
2,2' DNDPA	50.0		5.22	777.3	23043 0.000
2,4' DNDPA	50.0		7.622	980.5	0 0.000
4NDPA	50.0		9.134	1586.8	47.5 0.003
2NDPA	50.0		10.417	2826.3	92.1 0.003
DPA	200.0		11.797	5671.5	817.6 0.058
N-NitrosoDPA	75.0		12.757	1337.5	0 0.000
Avg. % Stabilizer for Lot					0.973 0.973
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.97 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

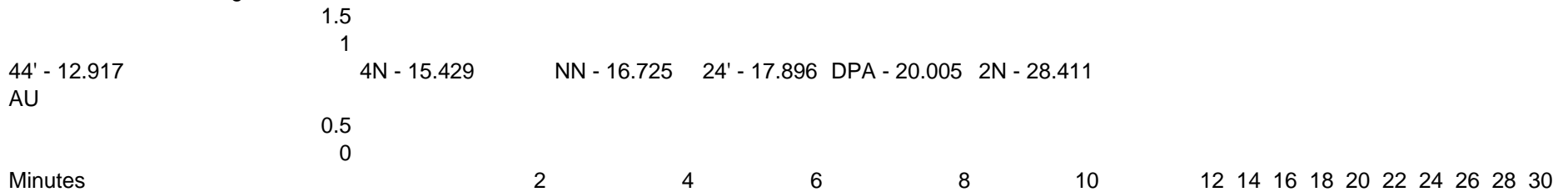
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

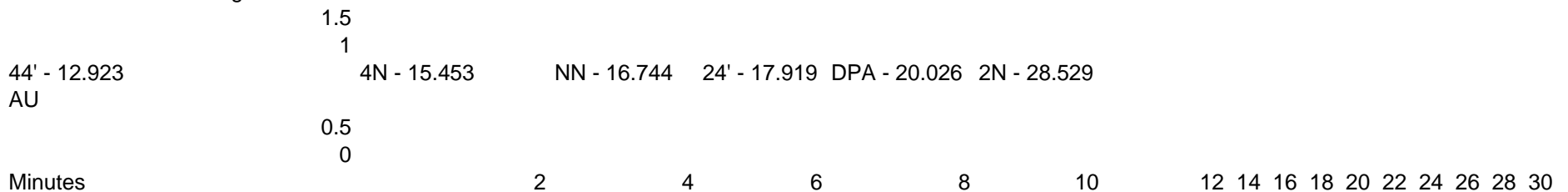
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070276				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	578.6
2,4-DNDPA	50.0		3.418	914.3	0
2,2' DNDPA	50.0		5.22	777.3	23990
2,4' DNDPA	50.0		7.622	980.5	0
4NDPA	50.0		9.134	1586.8	40.6
2NDPA	50.0		10.417	2826.3	88.7
DPA	200.0		11.797	5671.5	812.6
N-NitrosoDPA	75.0		12.757	1337.5	0
					1.249
Avg. % Stabilizer for Lot					1.249
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.25 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83L070321				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	361.8 0.741
2,4-DNDPA	50.0		3.418	914.3	32.8 0.004
2,2' DNDPA	50.0		5.22	777.3	22452 0.000
2,4' DNDPA	50.0		7.622	980.5	30.6 0.003
4NDPA	50.0		9.134	1586.8	230.7 0.015
2NDPA	50.0		10.417	2826.3	238.7 0.008
DPA	200.0		11.797	5671.5	491 0.035
N-NitrosoDPA	75.0		12.757	1337.5	0 0.000
Avg. % Stabilizer for Lot					0.806 0.806
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.81 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84B070327				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	501.9
2,4-DNDPA	50.0		3.418	914.3	0
2,2' DNDPA	50.0		5.22	777.3	23336
2,4' DNDPA	50.0		7.622	980.5	0
4NDPA	50.0		9.134	1586.8	95.7
2NDPA	50.0		10.417	2826.3	104
DPA	200.0		11.797	5671.5	673.4
N-NitrosoDPA	75.0		12.757	1337.5	0
					1.086
Avg. % Stabilizer for Lot					1.086
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.09 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84H070443				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.889	48.8	802.3	1.644
2,4-DNDPA	50.0	3.418	914.3	0	0.000
2,2' DNDPA	50.0	5.22	777.3	25094	0.000
2,4' DNDPA	50.0	7.622	980.5	0	0.000
4NDPA	50.0	9.134	1586.8	48.8	0.003
2NDPA	50.0	10.417	2826.3	90.5	0.003
DPA	200.0	11.797	5671.5	832.5	0.059
N-NitrosoDPA	75.0	12.757	1337.5	0	0.000
Avg. % Stabilizer for Lot					1.709
Avg. % Stabilizer for Lot					1.709
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.71 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	12.917	11923	709	0.015 micro gram
2 4N	15.429	15.429	119345	5819	0.07 micro gram
3 NN	16.725	16.725	43675	1982	0.061 micro gram
4 24'	17.896	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	20.005	189585	7757	0.21 micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	12.923	14984	870	0.018 micro gram
2 4N	15.453	15.453	121334	6049	0.072 micro gram
3 NN	16.744	16.744	54324	2521	0.075 micro gram
4 24'	17.919	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	20.026	136705	5741	0.152 micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86L070641				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	618.9 / 1.268
2,4-DNDPA	50.0		3.418	914.3	0 / 0.000
2,2' DNDPA	50.0		5.22	777.3	25286 / 0.000
2,4' DNDPA	50.0		7.622	980.5	0 / 0.000
4NDPA	50.0		9.134	1586.8	41.3 / 0.003
2NDPA	50.0		10.417	2826.3	80.3 / 0.003
DPA	200.0		11.797	5671.5	797.4 / 0.056
N-NitrosoDPA	75.0		12.757	1337.5	0 / 0.000
Avg. % Stabilizer for Lot					1.330 1.330
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.33 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87A070675				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.889	48.8	776.8	1.592
2,4-DNDPA	50.0	3.418	914.3	0	0.000
2,2' DNDPA	50.0	5.22	777.3	24411	0.000
2,4' DNDPA	50.0	7.622	980.5	0	0.000
4NDPA	50.0	9.134	1586.8	35.8	0.002
2NDPA	50.0	10.417	2826.3	81.7	0.003
DPA	200.0	11.797	5671.5	815.3	0.058
N-NitrosoDPA	75.0	12.757	1337.5	0	0.000
Avg. % Stabilizer for Lot					1.654
Avg. % Stabilizer for Lot					1.654
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.65 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

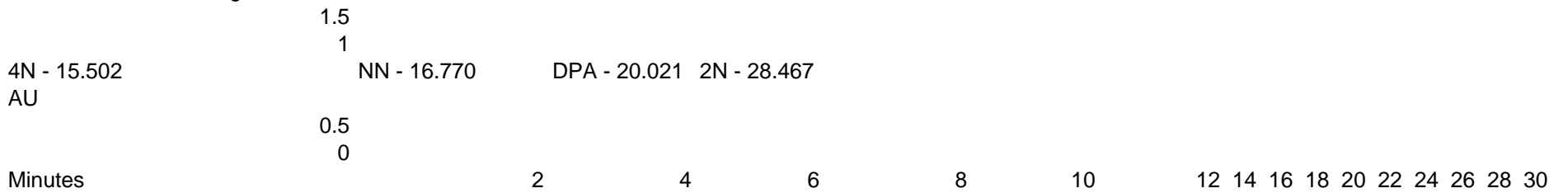
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87E070713				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	189.8
2,4-DNDPA	50.0		3.418	914.3	0
2,2' DNDPA	50.0		5.22	777.3	22631
2,4' DNDPA	50.0		7.622	980.5	0
4NDPA	50.0		9.134	1586.8	42.7
2NDPA	50.0		10.417	2826.3	103.9
DPA	200.0		11.797	5671.5	734.5
N-NitrosoDPA	75.0		12.757	1337.5	0
					0.447
Avg. % Stabilizer for Lot					0.447
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.45 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND87L070886				D533 / M6 propellant	
Date of analysis:				Date: 4 Sep 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.889	48.8	657.1
2,4-DNDPA	50.0		3.418	914.3	0
2,2' DNDPA	50.0		5.22	777.3	23257
2,4' DNDPA	50.0		7.622	980.5	0
4NDPA	50.0		9.134	1586.8	108.8
2NDPA	50.0		10.417	2826.3	126.9
DPA	200.0		11.797	5671.5	558.2
N-NitrosoDPA	75.0		12.757	1337.5	0
					1.397
Avg. % Stabilizer for Lot					1.397
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 1.40 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070104				D533 / M6 propellant	
Date of analysis:				Date: 5 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	58.7	476	0.811
2,4-DNDPA	50.0	3.478	913.7	0	0.000
2,2' DNDPA	50.0	5.394	394.4	21997	0.000
2,4' DNDPA	50.0	7.985	957.3	0	0.000
4NDPA	50.0	9.454	1608.8	49.1	0.003
2NDPA	50.0	10.757	2759.5	77.9	0.003
DPA	200.0	12.069	5482.2	817.9	0.060
N-NitrosoDPA	75.0	13.077	1347.8	0	0.000
Avg. % Stabilizer for Lot					0.876
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.88 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070516				D533 / M6 propellant	
Date of analysis:				Date: 5 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.88	58.7	476	0.811
2,4-DNDPA	50.0	3.478	913.7	0	0.000
2,2' DNDPA	50.0	5.394	394.4	21997	0.000
2,4' DNDPA	50.0	7.985	957.3	0	0.000
4NDPA	50.0	9.454	1608.8	49.1	0.003
2NDPA	50.0	10.757	2759.5	77.9	0.003
DPA	200.0	12.069	5482.2	700.3	0.051
N-NitrosoDPA	75.0	13.077	1347.8	0	0.000
Avg. % Stabilizer for Lot					0.868
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.87 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

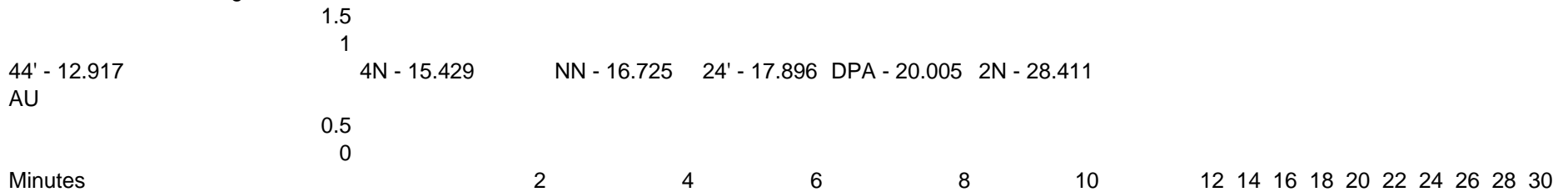
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

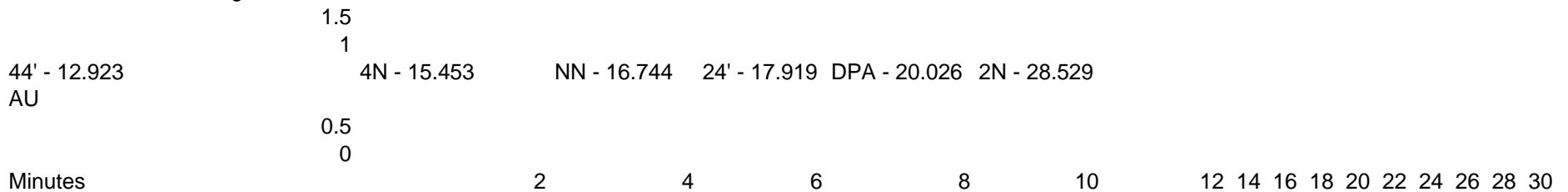
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85F070590				D533 / M6 propellant	
Date of analysis:				Date: 7 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.869	60.6	298.9 0.493
2,4-DNDPA	50.0		3.424	923.3	17 0.002
2,2' DNDPA	50.0		5.25	941.1	23893 0.000
2,4' DNDPA	50.0		7.715	995.1	0 0.000
4NDPA	50.0		9.188	1586.7	64.7 0.004
2NDPA	50.0		10.47	2790.2	88.2 0.003
DPA	200.0		11.821	5889.9	863 0.062
N-NitrosoDPA	75.0		12.789	1395.9	0 0.000
				0.564	
				Avg. % Stabilizer for Lot 0.564	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.56 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86G070591				D533 / M6 propellant	
Date of analysis:				Date: 7 SEP 2012	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.869	60.6	461.2 0.761
2.4-DNDPA	50.0		3.424	923.3	0 0.000
2.2' DNDPA	50.0		5.25	941.1	24291 0.000
2.4' DNDPA	50.0		7.715	995.1	0 0.000
4NDPA	50.0		9.188	1586.7	111.3 0.007
2NDPA	50.0		10.47	2790.2	99.3 0.004
DPA	200.0		11.821	5589.9	361.6 0.026
N-NitrosoDPA	75.0		12.789	1395.9	0 0.000
				0.798	
				Avg. % Stabilizer for Lot 0.798	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.80 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85J070596				D533 / M6 propellant	
Date of analysis:				Date: 14 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.708	123.7	426.3	0.345
2,4-DNDPA	50.0	3.44	942.8	0	0.000
2,2' DNDPA	50.0	5.249	2037	23960	0.000
2,4' DNDPA	50.0	7.649	1036	0	0.000
4NDPA	50.0	9.195	1672.9	54.6	0.003
2NDPA	50.0	10.467	2983.9	90.3	0.003
DPA	200.0	11.987	5883.9	856.9	0.058
N-NitrosoDPA	75.0	12.858	1393.4	0	0.000
Avg. % Stabilizer for Lot					0.409
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.41 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

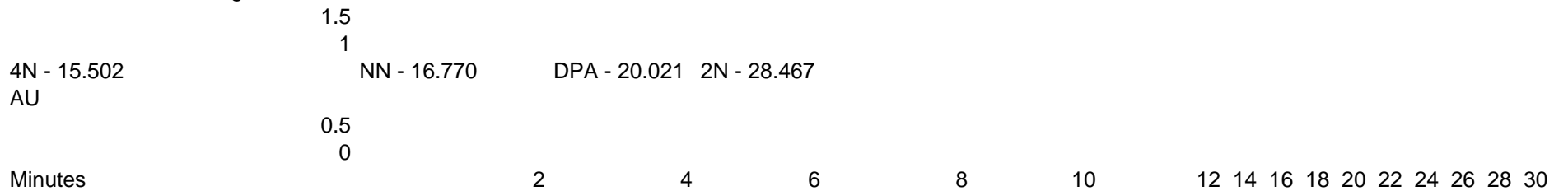
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070025				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	972.1	0.607
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	23031	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	45.9	0.003
2NDPA	50.0	10.535	2978.6	92.3	0.003
DPA	200.0	12.064	5710.6	742.9	0.052
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.665
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.67 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

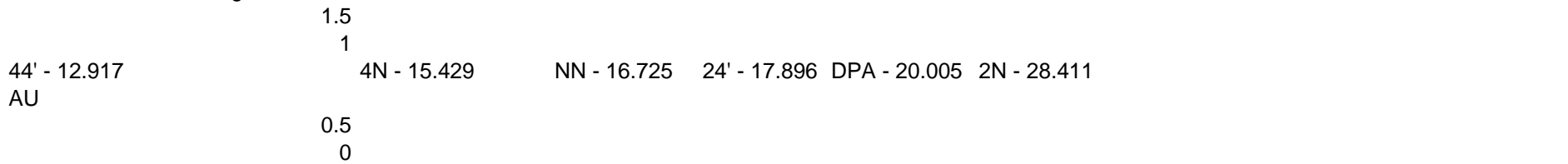
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

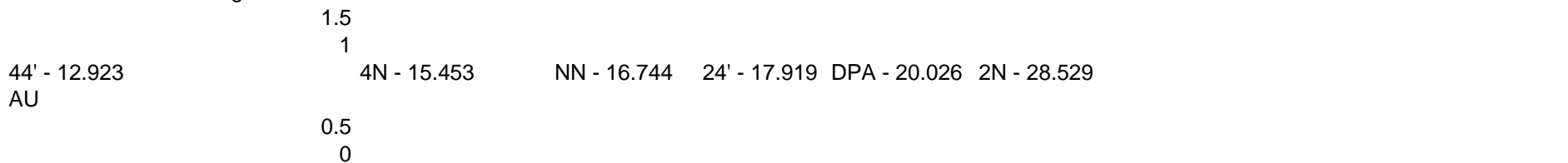
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82A070102				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	838.8	0.524
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	22395	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	61.3	0.004
2NDPA	50.0	10.535	2978.6	84	0.003
DPA	200.0	12.064	5710.6	1008	0.071
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.601
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					0.601
Analyst Mike Kile			Avg. Tot. Stabilizers 0.60 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88J070969				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	698.1	0.436
2,4-DNDPA	50.0	3.454	936.7	16.4	0.002
2,2' DNDPA	50.0	5.27	3925	22970	0.000
2,4' DNDPA	50.0	7.691	1034.3	24.5	0.002
4NDPA	50.0	9.247	1676.6	92	0.005
2NDPA	50.0	10.535	2978.6	152.7	0.005
DPA	200.0	12.064	5710.6	922.5	0.065
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.515
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.52 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83FY70278				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	741.7	0.463
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	23778	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	141.7	0.008
2NDPA	50.0	10.535	2978.6	0	0.000
DPA	200.0	12.064	5710.6	320.3	0.022
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.494
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.49 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	22.4	24			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

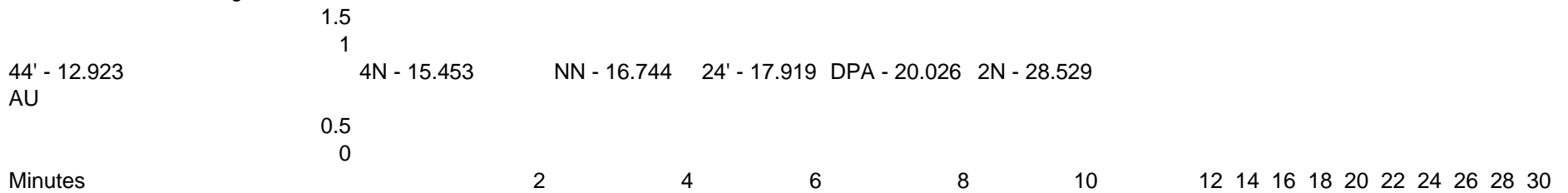
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	22.4	24			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

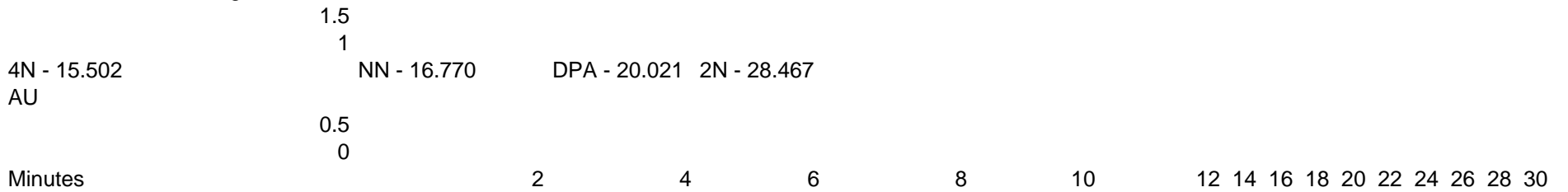
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86F070619				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	997.6	0.623
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	22427	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	50.9	0.003
2NDPA	50.0	10.535	2978.6	99	0.003
DPA	200.0	12.064	5710.6	614	0.043
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
				0.672	
				Avg. % Stabilizer for Lot 0.672	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.67 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86L070641				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	922.8	0.576
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	21882	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	42.7	0.003
2NDPA	50.0	10.535	2978.6	92	0.003
DPA	200.0	12.064	5710.6	655.6	0.046
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.628 0.628
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.63 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88G070965				D533 / M6 propellant	
Date of analysis:				Date: 16 SEP 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.703	160.1	871.8	0.545
2,4-DNDPA	50.0	3.454	936.7	0	0.000
2,2' DNDPA	50.0	5.27	3925	22411	0.000
2,4' DNDPA	50.0	7.691	1034.3	0	0.000
4NDPA	50.0	9.247	1676.6	126.4	0.008
2NDPA	50.0	10.535	2978.6	116.2	0.004
DPA	200.0	12.064	5710.6	318.2	0.022
N-NitrosoDPA	75.0	12.942	1390.7	0	0.000
Avg. % Stabilizer for Lot					0.578
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.58 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81L070074				D533 / M6 propellant	
Date of analysis:				Date: 19 SEPT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4.4' DNDPA	50.0		0.866	65.3	504.3 0.772
2.4-DNDPA	50.0		3.45	959.2	0 0.000
2.2' DNDPA	50.0		5.27	2749.5	21863 0.000
2.4' DNDPA	50.0		7.695	1051.4	0 0.000
4NDPA	50.0		9.247	1702.8	66.6 0.004
2NDPA	50.0		10.528	3035.1	96.6 0.003
DPA	200.0		12.044	5992.2	593 0.040
N-NitrosoDPA	75.0		12.922	1413.2	0 0.000
				0.819	
				Avg. % Stabilizer for Lot 0.819	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.82 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070434				D533 / M6 propellant	
Date of analysis:				Date: 19 SEPT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.866	65.3	372.3	0.570
2,4-DNDPA	50.0	3.45	959.2	13.2	0.001
2,2' DNDPA	50.0	5.27	2749.5	22015	0.000
2,4' DNDPA	50.0	7.695	1051.4	0	0.000
4NDPA	50.0	9.247	1702.8	73.3	0.004
2NDPA	50.0	10.528	3035.1	131.5	0.004
DPA	200.0	12.044	5992.2	876.8	0.059
N-NitrosoDPA	75.0	12.922	1413.2	0	0.000
0.639					
Avg. % Stabilizer for Lot					0.639
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.64 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
		2 BAGS FOR Lot #
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070519				D533 / M6 propellant	
Date of analysis:				Date: 19 SEPT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.866	65.3	560.2
2,4-DNDPA	50.0		3.45	959.2	0
2,2' DNDPA	50.0		5.27	2749.5	23343
2,4' DNDPA	50.0		7.695	1051.4	0
4NDPA	50.0		9.247	1702.8	43.4
2NDPA	50.0		10.528	3035.1	78.7
DPA	200.0		12.044	5992.2	840.3
N-NitrosoDPA	75.0		12.922	1413.2	0
					0.919
Avg. % Stabilizer for Lot					0.919
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst MIKE KILE			Avg. Tot. Stabilizers 0.92 % %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

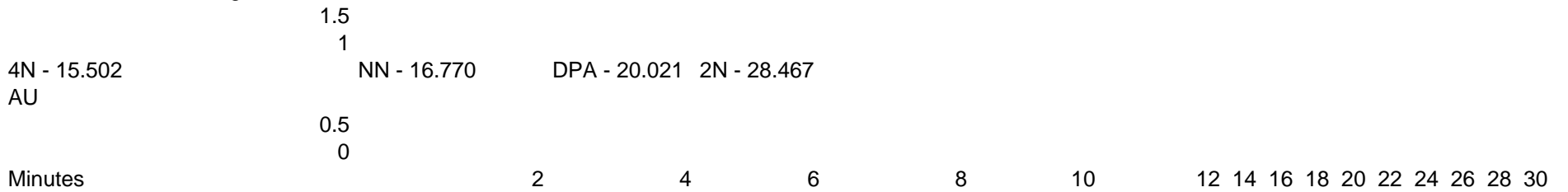
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82E070115				D533 / M6 propellant	
Date of analysis:				Date: 2 SEPTEMBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.631	119.7	513.1 <u>0.429</u>
2,4-DNDPA	50.0	50.0	3.438	959.4	17.4 <u>0.002</u>
2,2' DNDPA	50.0	50.0	5.235	1727.8	25268 <u>0.000</u>
2,4' DNDPA	50.0	50.0	7.619	1043.1	0 <u>0.000</u>
4NDPA	50.0	50.0	9.163	1669.9	77.7 <u>0.005</u>
2NDPA	50.0	50.0	10.427	3002.4	153.6 <u>0.005</u>
DPA	200.0	200.0	11.959	5688.4	920.8 <u>0.065</u>
N-NitrosoDPA	75.0	75.0	12.823	1409.6	0 <u>0.000</u>
Avg. % Stabilizer for Lot					0.505 0.505
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	KISHA DICKERSON			Avg. Tot. Stabilizers 0.50 %	
Analyst Signature				Stable	YES Unstable
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83EY70225				D533 / M6 propellant	
Date of analysis:				Date: 2 SEPTEMBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.631	119.7	383.4
2,4-DNDPA	50.0	50.0	3.438	959.4	0
2,2' DNDPA	50.0	50.0	5.235	1727.8	21946
2,4' DNDPA	50.0	50.0	7.619	1043.1	0
4NDPA	50.0	50.0	9.163	1669.9	49.4
2NDPA	50.0	50.0	10.427	3002.4	156.9
DPA	200.0	200.0	11.959	5688.4	485.2
N-NitrosoDPA	75.0	75.0	12.823	1409.6	0
Avg. % Stabilizer for Lot					0.363 0.363
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst	KISHA DICKERSON			Avg. Tot. Stabilizers 0.36 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85AY70504				D533 / M6 propellant	
Date of analysis:				Date: 2 SEPTEMBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	50.0	0.631	119.7	313.9 <u>0.262</u>
2,4-DNDPA	50.0	50.0	3.438	959.4	0 <u>0.000</u>
2,2' DNDPA	50.0	50.0	5.235	1727.8	23333 <u>0.000</u>
2,4' DNDPA	50.0	50.0	7.619	1043.1	0 <u>0.000</u>
4NDPA	50.0	50.0	9.163	1669.9	153.4 <u>0.009</u>
2NDPA	50.0	50.0	10.427	3002.4	652.2 <u>0.022</u>
DPA	200.0	200.0	11.959	5688.4	227.4 <u>0.016</u>
N-NitrosoDPA	75.0	75.0	12.823	1409.6	0 <u>0.000</u>
Avg. % Stabilizer for Lot				0.309 0.309	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.31 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85A070504		D533 / M6 propellant	
Date of analysis:		Date: 20 SEPT 2011	
Other Information M6 Propellant		Sample Data #1	Solvent 100 ml ACN
		0.50 g	

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.879	103.3	308.4	0.299
2,4-DNDPA	50.0	3.443	1005	17.9	0.002
2,2' DNDPA	50.0	5.241	3015.2	21162	0.000
2,4' DNDPA	50.0	7.622	1105.4	0	0.000
4NDPA	50.0	9.178	1784.2	82.9	0.005
2NDPA	50.0	10.444	3183	110.9	0.003
DPA	200.0	11.979	6201.8	804.9	0.052
N-NitrosoDPA	75.0	12.852	1490.6	0	0.000

	0.360
Avg. % Stabilizer for Lot	0.360

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst TAKISHA DICKERSON	Avg. Tot. Stabilizers 0.36 %
Analyst Signature	Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable
Lab. Supervisor Signature	Comments CATEGORY: A
	Actions to be Taken

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88D070716				D533 / M6 propellant	
Date of analysis:				Date: 20 SEPT 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
			0.50 g		
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.879	103.3	344.1	0.333
2,4-DNDPA	50.0	3.443	1005	0	0.000
2,2' DNDPA	50.0	5.241	3015.2	25085	0.000
2,4' DNDPA	50.0	7.622	1105.4	0	0.000
4NDPA	50.0	9.178	1784.2	128.7	0.007
2NDPA	50.0	10.444	3183	150.6	0.005
DPA	200.0	11.979	6201.8	373.7	0.024
N-NitrosoDPA	75.0	12.852	1490.6	0	0.000
				0.369	
				Avg. % Stabilizer for Lot 0.369	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst TAKISHA DICKERSON			Avg. Tot. Stabilizers 0.37 % %		
Analyst Signature			Stable <input type="checkbox"/> YES <input checked="" type="checkbox"/> Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

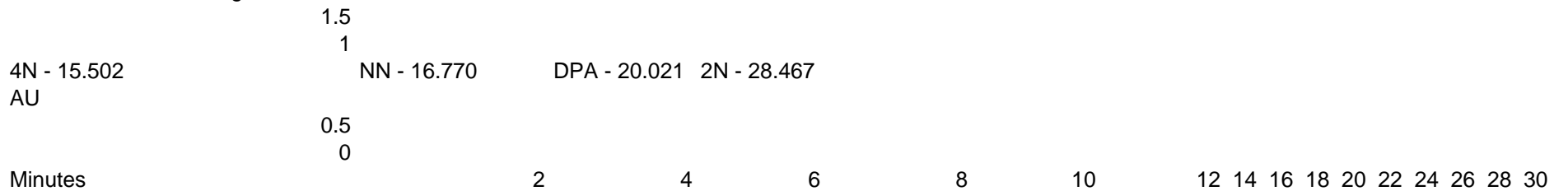
SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes
Peak Results
Name

RT	Area	Height	Amount	Units
1 44'	13			
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'	17.9			
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82JY70172				D533 / M6 propellant	
Date of analysis:				Date: 21 Sept 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.885	43.7	116.1	0.266
2,4-DNDPA	50.0	3.453	1027.8	14.1	0.001
2,2' DNDPA	50.0	5.273	3839.4	21917	0.000
2,4' DNDPA	50.0	7.689	1131	0	0.000
4NDPA	50.0	9.246	1831.8	87.9	0.005
2NDPA	50.0	10.527	3260.8	148.2	0.005
DPA	200.0	12.054	6406.4	937.1	0.059
N-NitrosoDPA	75.0	12.934	1524.4	0	0.000
Avg. % Stabilizer for Lot					0.335
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.33 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81DY70015				D533 / M6 propellant	
Date of analysis:				Date: 23 Sept 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	107.9	423.3	0.392
2,4-DNDPA	50.0	3.447	904.3	16.6	0.002
2,2' DNDPA	50.0	5.247	26461	25393	0.000
2,4' DNDPA	50.0	7.633	980.1	0	0.000
4NDPA	50.0	9.192	1571.6	93.8	0.006
2NDPA	50.0	10.459	2828.7	173.9	0.006
DPA	200.0	11.998	5503.2	836.5	0.061
N-NitrosoDPA	75.0	12.872	1320.7	0	0.000
Avg. % Stabilizer for Lot					0.467 0.467
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson			Avg. Tot. Stabilizers 0.47 %		
Analyst Signature			Stable <input type="checkbox"/> YES Unstable <input type="checkbox"/>		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Peak Results Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Minutes

Peak Results

Name

RT	Area	Height	Amount	Units
1 44'		13		
2 4N	15.502	82277	4107	0.049 micro gram
3 NN	16.77	40099	1893	0.056 micro gram
4 24'		17.9		
5 DPA	20.021	194822	8018	0.216 micro gram
6 22'		20.9		
7	24	22.4		
8 2N	28.467	209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83BY70232				D533 / M6 propellant	
Date of analysis:				Date: 30 Sept 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 100 ml ACN
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0		0.857	177.3	508.5
2,4-DNDPA	50.0		3.469	917.2	0
2,2' DNDPA	50.0		5.305	547.2	31552
2,4' DNDPA	50.0		7.733	980.4	0
4NDPA	50.0		9.29	1574.1	244.7
2NDPA	50.0		10.538	2849.6	164.6
DPA	200.0		12.094	5596.8	197.2
N-NitrosoDPA	75.0		12.945	1349.6	0
Avg. % Stabilizer for Lot					0.322
Avg. % Stabilizer for Lot					0.322
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Mike Kile			Avg. Tot. Stabilizers 0.32 %		
Analyst Signature			Stable		YES Unstable
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		
Collection Date		IND80J070007
Date of analysis		22-Jan-04
		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

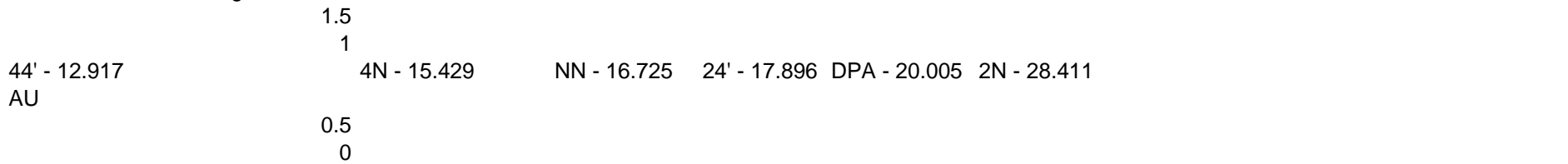
SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.917	11923	709	0.015 micro gram
2	4N	15.429	119345	5819	0.07 micro gram
3	NN	16.725	43675	1982	0.061 micro gram
4	24'	17.896	25154	1151	0.014 micro gram
5	DPA	20.005	189585	7757	0.21 micro gram
6	22'	20.9			
7	24	22.4			
8	2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

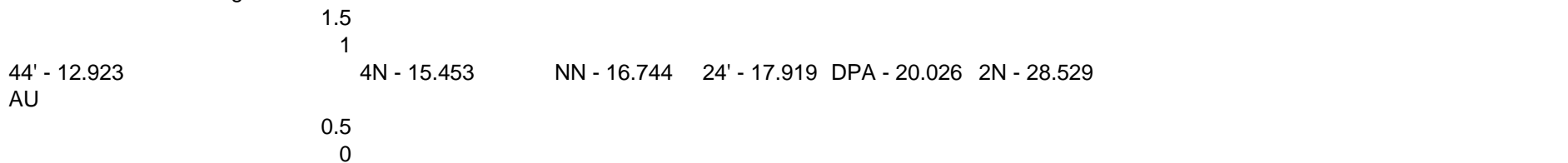
SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
------	----	------	--------	--------	-------

1	44'	12.923	14984	870	0.018 micro gram
2	4N	15.453	121334	6049	0.072 micro gram
3	NN	16.744	54324	2521	0.075 micro gram
4	24'	17.919	33482	1475	0.018 micro gram
5	DPA	20.026	136705	5741	0.152 micro gram
6	22'	20.9			
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070276				D533 / M6 propellant	
Date of analysis:				Date: 8 SEPTEMBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent ACN
			0.50 g		100 ml
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	5.0	0.661	105	324.9
2,4-DNDPA	50.0	5.0	3.445	956.3	26.6
2,2' DNDPA	50.0	5.0	5.251	1621.3	24641
2,4' DNDPA	50.0	5.0	7.652	1041.4	23.8
4NDPA	50.0	5.0	9.199	1675.3	187.8
2NDPA	50.0	5.0	10.475	2996.6	224.7
DPA	200.0	200.0	11.998	5813.2	455.7
N-NitrosoDPA	75.0	75.0	12.869	1403.1	0
					0.365
Avg. % Stabilizer for Lot					0.365
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015 micro gram
2 4N	15.429	119345	5819	0.07 micro gram
3 NN	16.725	43675	1982	0.061 micro gram
4 24'	17.896	25154	1151	0.014 micro gram
5 DPA	20.005	189585	7757	0.21 micro gram
6 22'	20.9			
7	24	22.4		
8 2N	28.411	309507	8641	0.14 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results Name

RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018 micro gram
2 4N	15.453	121334	6049	0.072 micro gram
3 NN	16.744	54324	2521	0.075 micro gram
4 24'	17.919	33482	1475	0.018 micro gram
5 DPA	20.026	136705	5741	0.152 micro gram
6 22'	20.9			
7	24	22.4		

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7	24		22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070324				D533 / M6 propellant	
Date of analysis:				Date: 8 SEPTEMBER 2011	
Other Information M6 Propellant			Sample Data #1		Solvent 0.50 g 100 ml ACN
Standards (ERG-006)			Sample #		
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.661	105	313.5	0.299
2,4-DNDPA	50.0	3.445	956.3	0	0.000
2,2' DNDPA	50.0	5.251	1621.3	22048	0.000
2,4' DNDPA	50.0	7.652	1041.4	0	0.000
4NDPA	50.0	9.199	1675.3	70.1	0.004
2NDPA	50.0	10.475	2996.6	104.8	0.003
DPA	200.0	11.998	5813.2	824	0.057
N-NitrosoDPA	75.0	12.869	1403.1	0	0.000
				0.363	
				Avg. % Stabilizer for Lot 0.363	
0.30% or more is Stability Code A 0.20% - 0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst KISHA DICKERSON			Avg. Tot. Stabilizers 0.36 %		
Analyst Signature			Stable YES Unstable		
Lab. Supervisor Signature			Comments CATEGORY: A		
			Actions to be Taken		

Lot #		%
IND80J070007-1		0.68
IND80J070007-2		0.67
2 BAGS FOR Lot #		IND80J070007
Collection Date		22-Jan-04
Date of analysis		13-Feb-04
AVERAGE =	0.68	Propellant Category= A
STANDARD DEVIATION =	0.01	
% DEVIATION =	1.05%	

Current Date 2/13/2004

SampleName IND80J070007-1-1

Injection 1

Channel Id 11902

Vial 11

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.917	11923	709	0.015	micro gram
2 4N	15.429	119345	5819	0.07	micro gram
3 NN	16.725	43675	1982	0.061	micro gram
4 24'	17.896	25154	1151	0.014	micro gram
5 DPA	20.005	189585	7757	0.21	micro gram
6 22'	20.9				
7	24	22.4			
8 2N	28.411	309507	8641	0.14	micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-2

Injection 1

Channel Id 11906

Vial 12

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	Height	Amount	Units
1 44'	12.923	14984	870	0.018	micro gram
2 4N	15.453	121334	6049	0.072	micro gram
3 NN	16.744	54324	2521	0.075	micro gram
4 24'	17.919	33482	1475	0.018	micro gram
5 DPA	20.026	136705	5741	0.152	micro gram
6 22'	20.9				
7	24	22.4			

8 2N 28.529 296146 8446 0.134 micro gram

Current Date 2/13/2004

SampleName IND80J070007-1-3

Injection 1

Channel Id 11910

Vial 13

Auto-Scaled Chromatogram



Name	RT	Area	Height	Amount	Units
1 44'			13		
2 4N	15.502		82277	4107	0.049 micro gram
3 NN	16.77		40099	1893	0.056 micro gram
4 24'			17.9		
5 DPA	20.021		194822	8018	0.216 micro gram
6 22'			20.9		
7		24	22.4		
8 2N	28.467		209371	5950	0.095 micro gram

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83F070276	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2548.4	0.228
2,4-DNDPA	50.0	9.388	1191.2	35147.5	2.951
2,2' DNDPA	50.0	10.987	1694.7	56.1	0.000
2,4' DNDPA	50.0	11.73	1272.3	158.3	0.012
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	920.5	0.016
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	272.9	0.000

	3.207
Avg. % Stabilizer for Lot	3.207

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 3.21 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070112	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	1581.5	0.142
2,4-DNDPA	50.0	9.388	1191.2	26455.5	2.221
2,2' DNDPA	50.0	10.987	1694.7	97.2	0.000
2,4' DNDPA	50.0	11.73	1272.3	90.3	0.007
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	343.5	0.006
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	788.1	0.000

	2.376
Avg. % Stabilizer for Lot	2.376

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.38 %
--------------------------	--

Analyst Signature	Stable YES Unstable
--------------------------	-----------------------------------

Lab. Supervisor Signature	Comments
----------------------------------	-----------------

CATEGORY: A

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83K070319	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2244	0.201
2,4-DNDPA	50.0	9.388	1191.2	26030.5	2.185
2,2' DNDPA	50.0	10.987	1694.7	71.6	0.000
2,4' DNDPA	50.0	11.73	1272.3	94.4	0.007
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	562.5	0.010
DPA	200.0	15.022	1753.1	319.5	0.073
N-NitrosoDPA	75.0	18.932	2535.1	438.3	0.000

	2.476
Avg. % Stabilizer for Lot	2.476

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.48 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070167	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2141.4	0.192
2,4-DNDPA	50.0	9.388	1191.2	26272.9	2.206
2,2' DNDPA	50.0	10.987	1694.7	94.4	0.000
2,4' DNDPA	50.0	11.73	1272.3	147.3	0.012
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	346.6	0.006
DPA	200.0	15.022	1753.1	300.2	0.068
N-NitrosoDPA	75.0	18.932	2535.1	531.9	0.000

	2.483
Avg. % Stabilizer for Lot	2.483

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.48 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82L070178	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	1943.1	0.174
2,4-DNDPA	50.0	9.388	1191.2	25869.9	2.172
2,2' DNDPA	50.0	10.987	1694.7	97.6	0.000
2,4' DNDPA	50.0	11.73	1272.3	145.3	0.011
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	388.6	0.007
DPA	200.0	15.022	1753.1	361.4	0.082
N-NitrosoDPA	75.0	18.932	2535.1	365.7	0.000

	2.446
Avg. % Stabilizer for Lot	2.446

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.45 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82E070114	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	1592.5	0.143
2,4-DNDPA	50.0	9.388	1191.2	21507.7	1.806
2,2' DNDPA	50.0	10.987	1694.7	82.2	0.000
2,4' DNDPA	50.0	11.73	1272.3	122.9	0.010
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	188.3	0.003
DPA	200.0	15.022	1753.1	395.4	0.090
N-NitrosoDPA	75.0	18.932	2535.1	377.1	0.000

	2.051
Avg. % Stabilizer for Lot	2.051

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.05 %
--------------------------	--

Analyst Signature	Stable YES Unstable
--------------------------	-----------------------------------

Lab. Supervisor Signature	Comments
----------------------------------	-----------------

CATEGORY: A

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070281	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2037.1	0.183
2,4-DNDPA	50.0	9.388	1191.2	26000.5	2.183
2,2' DNDPA	50.0	10.987	1694.7	81.3	0.000
2,4' DNDPA	50.0	11.73	1272.3	86.5	0.007
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	432.4	0.007
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	791.6	0.000

	2.379
Avg. % Stabilizer for Lot	2.379

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.38 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070103	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2010.6	0.180
2,4-DNDPA	50.0	9.388	1191.2	25661.7	2.154
2,2' DNDPA	50.0	10.987	1694.7	43.3	0.000
2,4' DNDPA	50.0	11.73	1272.3	98.6	0.008
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	610.9	0.010
DPA	200.0	15.022	1753.1	195.5	0.045
N-NitrosoDPA	75.0	18.932	2535.1	610.2	0.000

	2.397
Avg. % Stabilizer for Lot	2.397

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.40 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070526	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2476.6	0.222
2,4-DNDPA	50.0	9.388	1191.2	24859.9	2.087
2,2' DNDPA	50.0	10.987	1694.7	58	0.000
2,4' DNDPA	50.0	11.73	1272.3	137.2	0.011
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	910.1	0.016
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	312.3	0.000

	2.335
Avg. % Stabilizer for Lot	2.335

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.34 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84J070447	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2364.2	0.212
2,4-DNDPA	50.0	9.388	1191.2	27845.2	2.338
2,2' DNDPA	50.0	10.987	1694.7	98.8	0.000
2,4' DNDPA	50.0	11.73	1272.3	112.7	0.009
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	542.3	0.009
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	419	0.000

	2.568
Avg. % Stabilizer for Lot	2.568

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.57 %
--------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%; text-align: center;">YES</td> </tr> <tr> <td colspan="2" style="border: none;">Unstable</td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83A070227	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2436.1	0.218
2,4-DNDPA	50.0	9.388	1191.2	22347.3	1.876
2,2' DNDPA	50.0	10.987	1694.7	118.9	0.000
2,4' DNDPA	50.0	11.73	1272.3	378.1	0.030
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	512.3	0.009
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	321	0.000

	2.133
Avg. % Stabilizer for Lot	2.133

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.13 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070168	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2540.4	0.228
2,4-DNDPA	50.0	9.388	1191.2	31231.4	2.622
2,2' DNDPA	50.0	10.987	1694.7	51.5	0.000
2,4' DNDPA	50.0	11.73	1272.3	143.2	0.011
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	838.5	0.014
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	985.4	0.000

	2.875
Avg. % Stabilizer for Lot	2.875

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.88 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070281	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2037.1	0.183
2,4-DNDPA	50.0	9.388	1191.2	26000.5	2.183
2,2' DNDPA	50.0	10.987	1694.7	81.3	0.000
2,4' DNDPA	50.0	11.73	1272.3	86.5	0.007
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	432.4	0.007
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	791.6	0.000

	2.379
Avg. % Stabilizer for Lot	2.379

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.38 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070103	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 1 FEB 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2010.6	0.180
2,4-DNDPA	50.0	9.388	1191.2	25661.7	2.154
2,2' DNDPA	50.0	10.987	1694.7	43.3	0.000
2,4' DNDPA	50.0	11.73	1272.3	98.6	0.008
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	610.9	0.010
DPA	200.0	15.022	1753.1	195.5	0.045
N-NitrosoDPA	75.0	18.932	2535.1	610.2	0.000

	2.397
Avg. % Stabilizer for Lot	2.397

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.40 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82D070113	D533 / M6 propellant
Date of analysis:	Date: 1 FEB 2011
Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml Solvent ACN

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.156	1116	2128.2	0.191
2,4-DNDPA	50.0	9.388	1191.2	25727.3	2.160
2,2' DNDPA	50.0	10.987	1694.7	53.4	0.000
2,4' DNDPA	50.0	11.73	1272.3	142.2	0.011
4NDPA	50.0	12.459	2443.3	0	0.000
2NDPA	50.0	13.939	5852.1	586.9	0.010
DPA	200.0	15.022	1753.1	0	0.000
N-NitrosoDPA	75.0	18.932	2535.1	214.5	0.000

	2.372
Avg. % Stabilizer for Lot	2.372

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.37 %			
Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
	Stable	YES	Unstable	
Lab. Supervisor Signature	Comments CATEGORY: A			
	Actions to be Taken			

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81D070450	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 11 Jan 2011
--------------------------	--------------------------

Other Information M6 Propellant	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">Sample Data</td> </tr> <tr> <td style="width: 10%;">#1</td> <td style="width: 30%;">0.5000 g</td> <td style="width: 30%;">100 ml</td> <td style="width: 30%;">Solvent ACN</td> </tr> </table>	Sample Data				#1	0.5000 g	100 ml	Solvent ACN	
Sample Data										
#1	0.5000 g	100 ml	Solvent ACN							

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.041	1072.9	1987.3	0.185
2,4-DNDPA	50.0	9.403	1132.4	22347	1.973
2,2' DNDPA	50.0	11.071	1654.7	75	0.000
2,4' DNDPA	50.0	11.863	1176.6	168.8	0.014
4NDPA	50.0	12.612	2267.7	0	0.000
2NDPA	50.0	14.156	6085.2	312.4	0.005
DPA	200.0	15.296	1602.1	0	0.000
N-NitrosoDPA	75.0	19.37	2345.7	815	0.000

	2.178
Avg. % Stabilizer for Lot	2.178

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Analyst</td> <td>Mike Kile</td> </tr> </table>	Analyst	Mike Kile	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Avg. Tot. Stabilizers</td> <td style="width: 20%; text-align: right;">2.18 %</td> </tr> </table>	Avg. Tot. Stabilizers	2.18 %
Analyst	Mike Kile				
Avg. Tot. Stabilizers	2.18 %				

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Stable</td> <td style="width: 30%; text-align: center;">YES</td> <td style="width: 40%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Comments</td> <td style="width: 40%; text-align: center;">A</td> </tr> <tr> <td colspan="2" style="text-align: center;">CATEGORY:</td> </tr> </table>	Comments	A	CATEGORY:	
Comments	A				
CATEGORY:					

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81G070326	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 11 Jan 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.041	1072.9	2154.3	0.201
2,4-DNDPA	50.0	9.403	1132.4	25773.1	2.276
2,2' DNDPA	50.0	11.071	1654.7	109.2	0.000
2,4' DNDPA	50.0	11.863	1176.6	154.7	0.013
4NDPA	50.0	12.612	2267.7	0	0.000
2NDPA	50.0	14.156	6085.2	386.2	0.006
DPA	200.0	15.296	1602.1	0	0.000
N-NitrosoDPA	75.0	19.37	2345.7	378.9	0.000

	2.496
Avg. % Stabilizer for Lot	2.496

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.50 %
--------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND 84CG69842	D533 / M6 propellant
----------------------------------	-----------------------------

Date of analysis:	Date: 13 MAY 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.718	71	308	0.434
2,4-DNDPA	50.0	3.443	965	0	0.000
2,2' DNDPA	50.0	5.262	92	27177	0.000
2,4' DNDPA	50.0	7.687	1022	0	0.000
4NDPA	50.0	9.22	1640	162	0.010
2NDPA	50.0	10.483	2956	136	0.005
DPA	200.0	11.993	5527	273	0.020
N-NitrosoDPA	75.0	12.858	1407	0	0.000

	0.468
Avg. % Stabilizer for Lot	0.468

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 0.47 %
----------------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	---

Lab. Supervisor Signature	Comments
---------------------------	----------

CATEGORY: **A**

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND80M070011	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	2336.8	0.219
2,4-DNDPA	50.0	9.483	1128.5	26485.4	2.347
2,2' DNDPA	50.0	11.075	1789.9	52.6	0.000
2,4' DNDPA	50.0	11.744	1596.2	123.4	0.008
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	662.2	0.011
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	215.6	0.000

	2.586
Avg. % Stabilizer for Lot	2.586

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 2.59 %
--------------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82J070170	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	1918.5	0.180
2,4-DNDPA	50.0	9.483	1128.5	26397.7	2.339
2,2' DNDPA	50.0	11.075	1789.9	151.9	0.000
2,4' DNDPA	50.0	11.744	1596.2	247.5	0.016
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	248.9	0.004
DPA	200.0	15.107	1617.9	490.2	0.121
N-NitrosoDPA	75.0	18.991	2304.9	428.7	0.000

	2.660
Avg. % Stabilizer for Lot	2.660

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 2.66 %
----------------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	---------------------------

Lab. Supervisor Signature	Comments
---------------------------	----------

CATEGORY: **A**

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070280	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	2194.4	0.206
2,4-DNDPA	50.0	9.483	1128.5	25398.6	2.251
2,2' DNDPA	50.0	11.075	1789.9	183.2	0.000
2,4' DNDPA	50.0	11.744	1596.2	197.1	0.012
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	112.6	0.002
DPA	200.0	15.107	1617.9	645.1	0.159
N-NitrosoDPA	75.0	18.991	2304.9	485.1	0.000

	2.630
Avg. % Stabilizer for Lot	2.630

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 2.63 %
--------------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments
----------------------------------	-----------------

CATEGORY: A

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070448	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	3146.4	0.295
2,4-DNDPA	50.0	9.483	1128.5	32287.2	2.861
2,2' DNDPA	50.0	11.075	1789.9	481.5	0.000
2,4' DNDPA	50.0	11.744	1596.2	239.9	0.015
4NDPA	50.0	12.553	2329	181.2	0.008
2NDPA	50.0	14.006	5766.8	335.1	0.006
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	507.1	0.000

	3.185
Avg. % Stabilizer for Lot	3.185

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 3.19 %
--------------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070448	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	3146.4	0.295
2,4-DNDPA	50.0	9.483	1128.5	32287.2	2.861
2,2' DNDPA	50.0	11.075	1789.9	481.5	0.000
2,4' DNDPA	50.0	11.744	1596.2	239.9	0.015
4NDPA	50.0	12.553	2329	181.2	0.008
2NDPA	50.0	14.006	5766.8	335.1	0.006
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	507.1	0.000

	3.185
Avg. % Stabilizer for Lot	3.185

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 3.19 %
--------------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84B070327	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml ACN	Solvent ACN
---	---	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	2756.1	0.259
2,4-DNDPA	50.0	9.483	1128.5	30215	2.677
2,2' DNDPA	50.0	11.075	1789.9	452.5	0.000
2,4' DNDPA	50.0	11.744	1596.2	313.3	0.020
4NDPA	50.0	12.553	2329	198	0.009
2NDPA	50.0	14.006	5766.8	223.5	0.004
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	412.8	0.000

	2.968
Avg. % Stabilizer for Lot	2.968

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 2.97 %
--------------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Stable</td> <td style="width: 30%; text-align: center;">YES</td> <td style="width: 40%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	---------------------------------------

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84A070324	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	3012.5	0.283
2,4-DNDPA	50.0	9.483	1128.5	31256	2.770
2,2' DNDPA	50.0	11.075	1789.9	325.6	0.000
2,4' DNDPA	50.0	11.744	1596.2	341.2	0.021
4NDPA	50.0	12.553	2329	212.8	0.009
2NDPA	50.0	14.006	5766.8	465	0.008
DPA	200.0	15.107	1617.9	0	0.000
N-NitrosoDPA	75.0	18.991	2304.9	412.8	0.000

	3.091
Avg. % Stabilizer for Lot	3.091

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 3.09 %
----------------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	---------------------------

Lab. Supervisor Signature	Comments CATEGORY: A
---------------------------	-----------------------------------

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82K070173	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 21 Apr 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.152	1065.2	3146.2	0.295
2,4-DNDPA	50.0	9.483	1128.5	28956.1	2.566
2,2' DNDPA	50.0	11.075	1789.9	196.4	0.000
2,4' DNDPA	50.0	11.744	1596.2	254	0.016
4NDPA	50.0	12.553	2329	0	0.000
2NDPA	50.0	14.006	5766.8	251.9	0.004
DPA	200.0	15.107	1617.9	612.3	0.151
N-NitrosoDPA	75.0	18.991	2304.9	398.1	0.000

	3.033
Avg. % Stabilizer for Lot	3.033

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 3.03 %
--------------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83C070235	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2362.6	0.227
2,4-DNDPA	50.0	9.543	1123.1	25012.2	2.227
2,2' DNDPA	50.0	11.155	1591.7	76.3	0.000
2,4' DNDPA	50.0	11.896	1220.2	109.3	0.009
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	544.1	0.010
DPA	200.0	15.292	2115.1	332.9	0.063
N-NitrosoDPA	75.0	19.236	2297.6	692.9	0.000

	2.536
Avg. % Stabilizer for Lot	2.536

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.54 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND81A070101	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2536	0.244
2,4-DNDPA	50.0	9.543	1123.1	21548.2	1.919
2,2' DNDPA	50.0	11.155	1591.7	168	0.000
2,4' DNDPA	50.0	11.896	1220.2	92	0.008
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	358	0.006
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	512	0.000

	2.177
Avg. % Stabilizer for Lot	2.177

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.18 %
Analyst Signature	Stable YES Unstable
	Comments CATEGORY: A
Lab. Supervisor Signature	Actions to be Taken

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82A070167	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2163.8	0.208
2,4-DNDPA	50.0	9.543	1123.1	25487.2	2.269
2,2' DNDPA	50.0	11.155	1591.7	112	0.000
2,4' DNDPA	50.0	11.896	1220.2	45.9	0.004
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	587	0.011
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	432.1	0.000

	2.492
Avg. % Stabilizer for Lot	2.492

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.49 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82H070166		D533 / M6 propellant	
Date of analysis:		Date: 24 FEB 2011	
Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml Solvent ACN		

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	1996.4	0.192
2,4-DNDPA	50.0	9.543	1123.1	23487	2.091
2,2' DNDPA	50.0	11.155	1591.7	107.9	0.000
2,4' DNDPA	50.0	11.896	1220.2	154.2	0.013
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	438.2	0.008
DPA	200.0	15.292	2115.1	297	0.056
N-NitrosoDPA	75.0	19.236	2297.6	385.7	0.000

	2.360
Avg. % Stabilizer for Lot	2.360

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.36 %
Analyst Signature	Stable YES Unstable
	Comments CATEGORY: A
Lab. Supervisor Signature	
	Actions to be Taken

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82B070104	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2245.6	0.216
2,4-DNDPA	50.0	9.543	1123.1	24587.3	2.189
2,2' DNDPA	50.0	11.155	1591.7	158.8	0.000
2,4' DNDPA	50.0	11.896	1220.2	167.2	0.014
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	258.1	0.005
DPA	200.0	15.292	2115.1	345.2	0.065
N-NitrosoDPA	75.0	19.236	2297.6	484.2	0.000

	2.489
Avg. % Stabilizer for Lot	2.489

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.49 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83C070236	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2356.9	0.227
2,4-DNDPA	50.0	9.543	1123.1	21568	1.920
2,2' DNDPA	50.0	11.155	1591.7	96.1	0.000
2,4' DNDPA	50.0	11.896	1220.2	143.2	0.012
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	352.1	0.006
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	479.1	0.000

	2.165
Avg. % Stabilizer for Lot	2.165

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.17 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number:IND86B070612	D533 / M6 propellant
--------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2410	0.232
2,4-DNDPA	50.0	9.543	1123.1	25765.1	2.294
2,2' DNDPA	50.0	11.155	1591.7	44.2	0.000
2,4' DNDPA	50.0	11.896	1220.2	107.8	0.009
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	665.8	0.012
DPA	200.0	15.292	2115.1	540.7	0.102
N-NitrosoDPA	75.0	19.236	2297.6	190.6	0.000

	2.649
Avg. % Stabilizer for Lot	2.649

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.65 %			
Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
	Stable	YES	Unstable	
Lab. Supervisor Signature	Comments <div style="text-align: center; margin-top: 10px;">CATEGORY: A</div>			
	Actions to be Taken			

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83E070273	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2377.7	0.229
2,4-DNDPA	50.0	9.543	1123.1	28172.8	2.508
2,2' DNDPA	50.0	11.155	1591.7	41.5	0.000
2,4' DNDPA	50.0	11.896	1220.2	95.3	0.008
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	673.1	0.012
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	711.6	0.000

	2.757
Avg. % Stabilizer for Lot	2.757

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.76 %
--------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	---------------------------------------

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86E070617	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2362.6	0.227
2,4-DNDPA	50.0	9.543	1123.1	26618.9	2.370
2,2' DNDPA	50.0	11.155	1591.7	43.2	0.000
2,4' DNDPA	50.0	11.896	1220.2	112.1	0.009
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	497.9	0.009
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	824.3	0.000

	2.616
Avg. % Stabilizer for Lot	2.616

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.62 %
--------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	---------------------------------------

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82F070162	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2367.1	0.228
2,4-DNDPA	50.0	9.543	1123.1	24569	2.188
2,2' DNDPA	50.0	11.155	1591.7	112	0.000
2,4' DNDPA	50.0	11.896	1220.2	97.5	0.008
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	481.2	0.009
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	596.7	0.000

	2.432
Avg. % Stabilizer for Lot	2.432

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.43 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments
----------------------------------	-----------------

CATEGORY: A

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82J070172	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2159.2	0.208
2,4-DNDPA	50.0	9.543	1123.1	23598	2.101
2,2' DNDPA	50.0	11.155	1591.7	318	0.000
2,4' DNDPA	50.0	11.896	1220.2	124.3	0.010
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	398.2	0.007
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	498.2	0.000

	2.326
Avg. % Stabilizer for Lot	2.326

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.33 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86E070167	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2198.5	0.212
2,4-DNDPA	50.0	9.543	1123.1	25478	2.269
2,2' DNDPA	50.0	11.155	1591.7	97	0.000
2,4' DNDPA	50.0	11.896	1220.2	122	0.010
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	385.4	0.007
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	496.5	0.000

	2.497
Avg. % Stabilizer for Lot	2.497

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.50 %
--------------------------	--

Analyst Signature	Stable YES Unstable
--------------------------	-----------------------------------

Lab. Supervisor Signature	Comments
----------------------------------	-----------------

CATEGORY: A

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82F070115	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 24 FEB 2011
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.5000 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	4.171	1039.1	2547	0.245
2,4-DNDPA	50.0	9.543	1123.1	22458	2.000
2,2' DNDPA	50.0	11.155	1591.7	84.5	0.000
2,4' DNDPA	50.0	11.896	1220.2	136.6	0.011
4NDPA	50.0	12.664	2189.9	0	0.000
2NDPA	50.0	14.158	5531	351.2	0.006
DPA	200.0	15.292	2115.1	0	0.000
N-NitrosoDPA	75.0	19.236	2297.6	377	0.000

	2.262
Avg. % Stabilizer for Lot	2.262

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Mike Kile	Avg. Tot. Stabilizers 2.26 %
--------------------------	--

Analyst Signature	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Stable</td> <td style="width: 20%; text-align: center;">YES</td> <td style="width: 20%;">Unstable</td> </tr> </table>	Stable	YES	Unstable
Stable	YES	Unstable		

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85B070508	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 26 JUL 2010
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.319	148.3	963	0.649
2,4-DNDPA	50.0	5.163	912.3	0	0.000
2,2' DNDPA	50.0	6.698	512	14239	0.000
2,4' DNDPA	50.0	9.025	963.8	0	0.000
4NDPA	50.0	10.672	1269.3	0	0.000
2NDPA	50.0	11.432	2014	0	0.000
DPA	200.0	12.965	4132.5	312	0.030
N-NitrosoDPA	75.0	13.67	1333	0	0.000

	0.680
Avg. % Stabilizer for Lot	0.680

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 0.68 %
----------------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	-----------------------------------

Lab. Supervisor Signature	Comments
---------------------------	----------

	CATEGORY: A
--	--------------------

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070511	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 26 JUL 2010
--------------------------	--------------------------

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	2.319	148.3	453	0.305
2,4-DNDPA	50.0	5.163	912.3	0	0.000
2,2' DNDPA	50.0	6.698	512	13620	0.000
2,4' DNDPA	50.0	9.025	963.8	0	0.000
4NDPA	50.0	10.672	1269.3	0	0.000
2NDPA	50.0	11.432	2014	0	0.000
DPA	200.0	12.965	4132.5	369	0.036
N-NitrosoDPA	75.0	13.67	1333	0	0.000

	0.341
Avg. % Stabilizer for Lot	0.341

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst Kisha Dickerson	Avg. Tot. Stabilizers 0.34 %
----------------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	-----------------------------------

Lab. Supervisor Signature	Comments
---------------------------	----------

	CATEGORY: A
--	--------------------

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND82M070221	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 6 MAY 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml	Solvent ACN
---	---	----------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	62	581	0.937
2,4-DNDPA	50.0	3.418	951	0	0.000
2,2' DNDPA	50.0	5.203	137	23081	0.000
2,4' DNDPA	50.0	7.572	1006	0	0.000
4NDPA	50.0	9.106	1579	49	0.003
2NDPA	50.0	10.347	2905	98	0.003
DPA	200.0	11.88	5183	612	0.047
N-NitrosoDPA	75.0	12.734	1382	0	0.000

	0.991
Avg. % Stabilizer for Lot	0.991

0.30% or more is Stability Code A
0.20% -0.29% is Stability Code C
Less than 0.20% is Stability Code D

Analyst MIKE KILE	Avg. Tot. Stabilizers 0.99 %
----------------------	-------------------------------------

Analyst Signature	Stable YES Unstable
-------------------	---------------------------

Lab. Supervisor Signature	Comments CATEGORY: A
---------------------------	-----------------------------------

	Actions to be Taken
--	---------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85M070430	D533 / M6 propellant
---------------------------------	-----------------------------

Date of analysis:	Date: 6 MAY 2011
--------------------------	-------------------------

Other Information M6 Propellant	Sample Data #1 0.50 g 100 ml	Solvent ACN
---	--	-----------------------

Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.632	62	316	0.510
2,4-DNDPA	50.0	3.418	951	0	0.000
2,2' DNDPA	50.0	5.203	137	21968	0.000
2,4' DNDPA	50.0	7.572	1006	0	0.000
4NDPA	50.0	9.106	1579	76	0.005
2NDPA	50.0	10.347	2905	107	0.004
DPA	200.0	11.88	5183	374	0.029
N-NitrosoDPA	75.0	12.734	1382	0	0.000

	0.547
Avg. % Stabilizer for Lot	0.547

0.30% or more is Stability Code A
 0.20% -0.29% is Stability Code C
 Less than 0.20% is Stability Code D

Analyst MIKE KILE	Avg. Tot. Stabilizers 0.55 %
--------------------------	--

Analyst Signature	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Stable</td> <td style="width: 50%;">YES</td> </tr> <tr> <td style="width: 50%;">Unstable</td> <td style="width: 50%;"></td> </tr> </table>	Stable	YES	Unstable	
Stable	YES				
Unstable					

Lab. Supervisor Signature	Comments CATEGORY: A
----------------------------------	--

	Actions to be Taken
--	----------------------------

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83E070226				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	64.3	0.731
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	20114	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	112.2	0.007
2NDPA	50.0	9.95	2919.6	60.1	0.002
DPA	200.0	11.386	5857.1	406.9	0.028
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				0.767	
Avg. % Stabilizer for Lot				0.767	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.77 %	
Analyst Signature				Stable YES Unstable	
				Comments CATEGORY: A	
Lab. Supervisor Signature				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84C070332				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	64.3	0.731
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	20165	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	136.4	0.008
2NDPA	50.0	9.95	2919.6	133.7	0.005
DPA	200.0	11.386	5857.1	63.6	0.004
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				0.748	
Avg. % Stabilizer for Lot				0.748	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.75 %	
Analyst Signature				Stable YES Unstable	
				Comments CATEGORY: A	
Lab. Supervisor Signature				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84E070433				D533 / M6 propellant			
Date of analysis:				Date: 10 AUGUST 2012			
Other Information M6 Propellant		Sample Data				Solvent	
		#1		0.50 g		100 ml ACN	
Standards (ERG-006)				Sample #			
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %		
4,4' DNDPA	50.0	0.882	8.8	155	1.761		
2,4-DNDPA	50.0	3.343	910.9	25.2	0.003		
2,2' DNDPA	50.0	5.034	3858.6	20094	0.000		
2,4' DNDPA	50.0	7.363	1013.2	0	0.000		
4NDPA	50.0	8.784	1647.3	90.4	0.005		
2NDPA	50.0	9.95	2919.6	181.9	0.006		
DPA	200.0	11.386	5857.1	771.7	0.053		
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000		
				1.829			
				Avg. % Stabilizer for Lot			
				1.829			
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.83 %			
Analyst Signature				Stable YES		Unstable	
Lab. Supervisor Signature				Comments			
				CATEGORY: A			
				Actions to be Taken			

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85C070512				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	112.9	1.283
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	22576	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	59.7	0.004
2NDPA	50.0	9.95	2919.6	95.5	0.003
DPA	200.0	11.386	5857.1	714.1	0.049
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.339	
Avg. % Stabilizer for Lot				1.339	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.34 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND86L070640				D533 / M6 propellant			
Date of analysis:				Date: 10 AUGUST 2012			
Other Information M6 Propellant		Sample Data				Solvent	
		#1		0.50 g		100 ml ACN	
Standards (ERG-006)				Sample #			
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %		
4,4' DNDPA	50.0	0.882	8.8	29.1	0.331		
2,4-DNDPA	50.0	3.343	910.9	0	0.000		
2,2' DNDPA	50.0	5.034	3858.6	21135	0.000		
2,4' DNDPA	50.0	7.363	1013.2	0	0.000		
4NDPA	50.0	8.784	1647.3	141.4	0.009		
2NDPA	50.0	9.95	2919.6	123.4	0.004		
DPA	200.0	11.386	5857.1	129.3	0.009		
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000		
				0.352			
Avg. % Stabilizer for Lot				0.352			
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.35 %			
Analyst Signature				Stable YES		Unstable	
Lab. Supervisor Signature				Comments			
				CATEGORY: A			
				Actions to be Taken			

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88D070894				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	167.1	1.899
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	19661	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	52.5	0.003
2NDPA	50.0	9.95	2919.6	79.3	0.003
DPA	200.0	11.386	5857.1	767.4	0.052
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.957	
Avg. % Stabilizer for Lot				1.957	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.96 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND88M070994				D533 / M6 propellant	
Date of analysis:				Date: 10 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.882	8.8	105.2	1.195
2,4-DNDPA	50.0	3.343	910.9	0	0.000
2,2' DNDPA	50.0	5.034	3858.6	21684	0.000
2,4' DNDPA	50.0	7.363	1013.2	0	0.000
4NDPA	50.0	8.784	1647.3	33.7	0.002
2NDPA	50.0	9.95	2919.6	70.5	0.002
DPA	200.0	11.386	5857.1	742.1	0.051
N-NitrosoDPA	75.0	12.173	1371.4	0	0.000
				1.251	
Avg. % Stabilizer for Lot				1.251	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.25 %	
Analyst Signature				Stable YES Unstable	
				Comments CATEGORY: A	
Lab. Supervisor Signature					
				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND83G070281				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	199.6	0.486
2,4-DNDPA	50.0	3.363	1017.6	13.9	0.001
2,2' DNDPA	50.0	5.079	4556.2	21910	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	71.9	0.004
2NDPA	50.0	10.084	3271.2	123.5	0.004
DPA	200.0	11.54	6554.9	888.5	0.054
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				0.549	
Avg. % Stabilizer for Lot				0.549	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.55 %	
Analyst Signature				Stable YES Unstable	
				Comments CATEGORY: A	
Lab. Supervisor Signature				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84D070333				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	209.5	0.510
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	22693	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	52.1	0.003
2NDPA	50.0	10.084	3271.2	95.3	0.003
DPA	200.0	11.54	6554.9	749.3	0.046
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				0.561	
Avg. % Stabilizer for Lot				0.561	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.56 %	
Analyst Signature				Stable YES Unstable	
				Comments CATEGORY: A	
Lab. Supervisor Signature				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND84K070452				D533 / M6 propellant	
Date of analysis:				Date: 13 AUGUST 2012	
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml		Solvent ACN	
Standards (ERG-006)				Sample #	
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %
4,4' DNDPA	50.0	0.874	41.1	237.6	0.578
2,4-DNDPA	50.0	3.363	1017.6	0	0.000
2,2' DNDPA	50.0	5.079	4556.2	22977	0.000
2,4' DNDPA	50.0	7.471	1126.4	0	0.000
4NDPA	50.0	8.907	1830.9	53.4	0.003
2NDPA	50.0	10.084	3271.2	114.5	0.004
DPA	200.0	11.54	6554.9	610.4	0.037
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000
				0.622	
Avg. % Stabilizer for Lot				0.622	
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D					
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 0.62 %	
Analyst Signature				Stable YES Unstable	
Lab. Supervisor Signature				Comments CATEGORY: A	
				Actions to be Taken	

HPLC PROPELLANT STABILITY REPORT

Lot Number: IND85D070519				D533 / M6 propellant			
Date of analysis:				Date: 13 AUGUST 2012			
Other Information M6 Propellant		Sample Data #1 0.50 g 100 ml			Solvent ACN		
Standards (ERG-006)				Sample #			
Stabilizer	Conc. ppm	Ret Time	Intg. Area 1	Intg. Area	Conc. %		
4,4' DNDPA	50.0	0.874	41.1	441.6	1.074		
2,4-DNDPA	50.0	3.363	1017.6	0	0.000		
2,2' DNDPA	50.0	5.079	4556.2	21407	0.000		
2,4' DNDPA	50.0	7.471	1126.4	0	0.000		
4NDPA	50.0	8.907	1830.9	36.4	0.002		
2NDPA	50.0	10.084	3271.2	72.1	0.002		
DPA	200.0	11.54	6554.9	671.1	0.041		
N-NitrosoDPA	75.0	12.349	1509.1	0	0.000		
				1.120			
Avg. % Stabilizer for Lot				1.120			
0.30% or more is Stability Code A 0.20% -0.29% is Stability Code C Less than 0.20% is Stability Code D							
Analyst Takisha Dickerson				Avg. Tot. Stabilizers 1.12 %			
Analyst Signature				Stable YES		Unstable	
				Comments			
Lab. Supervisor Signature				CATEGORY: A			
				Actions to be Taken			