


## MEMORANDUM

**TO:** FILE

**FROM:** Frances Verhalen, P.E., Chief   
Air Monitoring/Grants Section  
US Environmental Protection Agency, Region 6 (6MM-AM)

**DATE:** May 10, 2016

**SUBJECT:** Evaluation of ambient air sampling results from areas surrounding the Denka/DuPont facility in LaPlace, LA in March 2016

### BACKGROUND

The U.S. Environmental Protection Agency (EPA) 2011 National Air Toxics Assessment (NATA) modeling estimates indicated the possibility of elevated risk from chloroprene emissions from the Denka neoprene production facility operations in LaPlace, LA (see Figure 1). The NATA estimates are based on air quality modeling of estimated emissions. In response to these modeled estimates, EPA Region 6 and the Louisiana Department of Environmental Quality (LDEQ) conducted preliminary ambient air sampling to determine if ambient levels of chloroprene could be detected in the community near the facility, and at what general order of magnitude. The purpose of the preliminary sampling was to decide if a more extensive and comprehensive monitoring and assessment plan was needed.

### SAMPLE METHODS

Two types of samples were collected on six occasions during two different weeks. First, the LDEQ collected instantaneous or grab samples and analyzed those samples using a field unit. Additionally, EPA collected a small number of 8-hour and 24-hour samples. Together, this information allows the LDEQ and the EPA to understand the sampling techniques that may be used to determine the presence of chloroprene in the ambient air outside of the facility, and gain a sense of the concentrations that might be detected in ambient air.

LDEQ: The LDEQ sought to determine if chloroprene could be detected in ambient air using a standard grab sampling technique for air. The LDEQ collected “grab” (15-second) Tedlar bag samples near the facility and analyzed them in the LDEQ Mobile Air Monitoring Laboratory. The LDEQ sample results showed that ambient levels of chloroprene could be detected in the air outside the facility.

The LDEQ grab air samples summarized on Table 1 were collected on six days between March 1 and March 10, 2016. The LDEQ collected 25 samples from various locations, including: the Ochsner Medical Center, East St John High School on Hebert Street, on LA Highway 61 (a.k.a. Airline Highway) in the community north of the facility, and on LA Highway 3179 (a.k.a. East 23<sup>rd</sup> St) in the community west of the facility. The samples were

analyzed in the field for multiple volatile organic compounds (VOC) including chloroprene, and the sample results were compared to the State Toxics Air Pollutant Ambient Air Standards. A map of the LDEQ air monitoring site locations is included in Figure 2.

EPA: The EPA sought to determine if ambient levels of chloroprene could be detected in the air in the nearby community over a number of hours and, if so, to gauge the magnitude of concentrations. The EPA used six-liter stainless steel Summa canisters (VOC canister samplers) to collect 8-hour and 24-hour ambient air samples. The ambient samples were analyzed for chloroprene at the EPA Houston Lab using EPA's analytical method: Compendium Method TO-15 - *Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*.

The EPA canister air samples summarized on Table 2 were collected in conjunction with the LDEQ grab ambient air sampling effort on March 1, 2, 8, and 9, 2016. The 24 EPA samples were collected at six sites in the community: near the schools at Our Lady of Grace and at the Fifth Ward elementary to the west/southwest of the facility, at the Ochsner Medical Center, on Hebert Street near the Ochsner Medical Center in the community north of the facility, on Chad Baker Road in the neighborhood immediately west of the facility, and at a upwind/background site on the river levee south/southeast of the facility. A map of the EPA air monitoring site locations is included in Figure 3.

## **SAMPLE RESULTS**

The LDEQ grab samples show that chloroprene can be detected in these nearly instantaneous samples collected from ambient air outside the facility in the community (see Table 1). The LDEQ analytical results for these approximately 15-second samples are included as Attachment 1.

The EPA canister sample results show what was detected in ambient air at the sampling locations in the community on specific dates for specified durations (see Table 2). Chloroprene was detected at quantifiable concentrations in some samples at some sites and not detected in other samples and other sites. As is generally expected, the quantified results for the canister samples, which are average concentrations for sample durations of 3 to 26 hours, fall within the range of concentrations reported for the 15-second grab samples. The EPA analytical results are included as Attachment 2.

## **SAMPLE RESULTS EVALUATION**

The LDEQ grab (approximately 15 second) samples show that chloroprene can be detected in short time period samples of air outside the facility. The twenty-four EPA air canister samples also demonstrate that chloroprene concentrations can be quantified in 24-hour samples, which is the preferred duration for characterizing the potential long-term air concentrations of chloroprene. The limited nature of the current dataset makes the sampling results insufficient for estimating the chloroprene concentrations present over longer time periods. In order to understand the potential for health risk that might be associated with the long-term presence of chloroprene in this area, monitoring data that reflect the long-term situation are needed. These data will need to be comprised of 24-hour samples from multiple monitoring sites around the

facility over a long enough time period such that variation in local meteorology (as well as variations in plant operation) throughout the year are represented.

### **POTENTIAL HEALTH CONCERNS**

The health effects information for chloroprene indicates that long-term exposures may pose a risk of cancer. As a result, the primary potential health concern associated with long-term exposure to chloroprene emissions is related to cancer risk. While the limited data currently available demonstrate the occurrence of detectable concentrations of chloroprene in the ambient air, this preliminary information is not sufficient for EPA to characterize the concentrations and exposures likely to commonly occur in the area over the long term and to make a conclusion regarding any potential long-term health risk. Therefore, the EPA intends to collect additional ambient air and weather data in a longer-term community air monitoring effort. These data are needed to gain an understanding of the potential health risk that might be associated with the long-term presence of chloroprene in the area.

### **ADDITIONAL AMBIENT AIR MONITORING AND EVALUATION**

In order to adequately assess potential health risks associated with long-term exposure to chloroprene in ambient air, 24-hour canister samples will be collected at multiple sites in the community for a minimum of three months and potentially for a longer period, such as six months, to account for emissions variability and seasonal changes (including wind speed and direction) throughout the year.

After the complete set of air monitoring and weather data have been obtained and formally evaluated to confirm that the dataset is appropriately representative of the long-term situation, EPA will use long term average concentrations at the monitoring sites to estimate exposure concentrations that will be compared to long-term health-based levels. These levels are derived for specific risks of cancer (e.g. upper bound cancer risks of 100-in-a-million or 1-in-a-million), and for noncancer effects.

The long-term cancer-based comparison level for a 100-in-1-million cancer risk comparison level is  $0.2 \mu\text{g}/\text{m}^3$ . For example, continuous lifetime exposure to average chloroprene air concentrations of  $0.2 \mu\text{g}/\text{m}^3$  (the 100-in-a-million cancer-risk-based comparison level) would indicate the potential for cancer risk as high as 100-in-a-million. Conversely, continuous lifetime exposure to average concentrations at or below  $0.002 \mu\text{g}/\text{m}^3$  (the 1-in-a-million cancer-risk-based comparison level) would indicate little potential for cancer risk (i.e., cancer risk as high as 1-in-a-million or lower). The long-term comparison level for effects other than cancer ( $20 \mu\text{g}/\text{m}^3$ ) is based on the lifetime daily exposure concentration likely to be without adverse noncancer effects.

While most concerned with evaluating the potential for long-term exposures that might contribute to elevated health risks, the EPA will review individual results of the samples that EPA plans to collect in LaPlace beginning in May 2016 to identify results that should receive additional attention. For these purposes, the EPA has developed an individual 24-hour sample screening level at a chloroprene air concentration of  $20 \mu\text{g}/\text{m}^3$ . Sample results above this value will be considered in light of more detailed information on chloroprene health effects along with

information concerning the sample collection and the chloroprene source in order to consider the potential for immediate health concerns.

## **CONCLUSION**

The EPA and the LDEQ preliminary sampling for chloroprene in the ambient air in the neighborhoods surrounding the Denka/DuPont facility found concentrations above detection levels. This limited dataset is insufficient, however, to make a determination of potential risk to human health. Chloroprene has recently been determined to be a likely carcinogen, and the EPA remains primarily concerned about the potential for long-term risk to the community. The EPA, working with the LDEQ, will conduct additional ambient air monitoring in the community to collect sufficient chloroprene air samples to assess the long-term situation and any associated potential risks to the community from chloroprene emissions. The EPA and the LDEQ air sampling data and evaluation is available by contacting Ruben Casso at [Casso.Ruben@epa.gov](mailto:Casso.Ruben@epa.gov).



**TABLE 1**  
**LDEQ MONITORING RESULTS**

The following table summarizes the LDEQ grab samples (15 sec) taken and the analytical results for chloroprene.

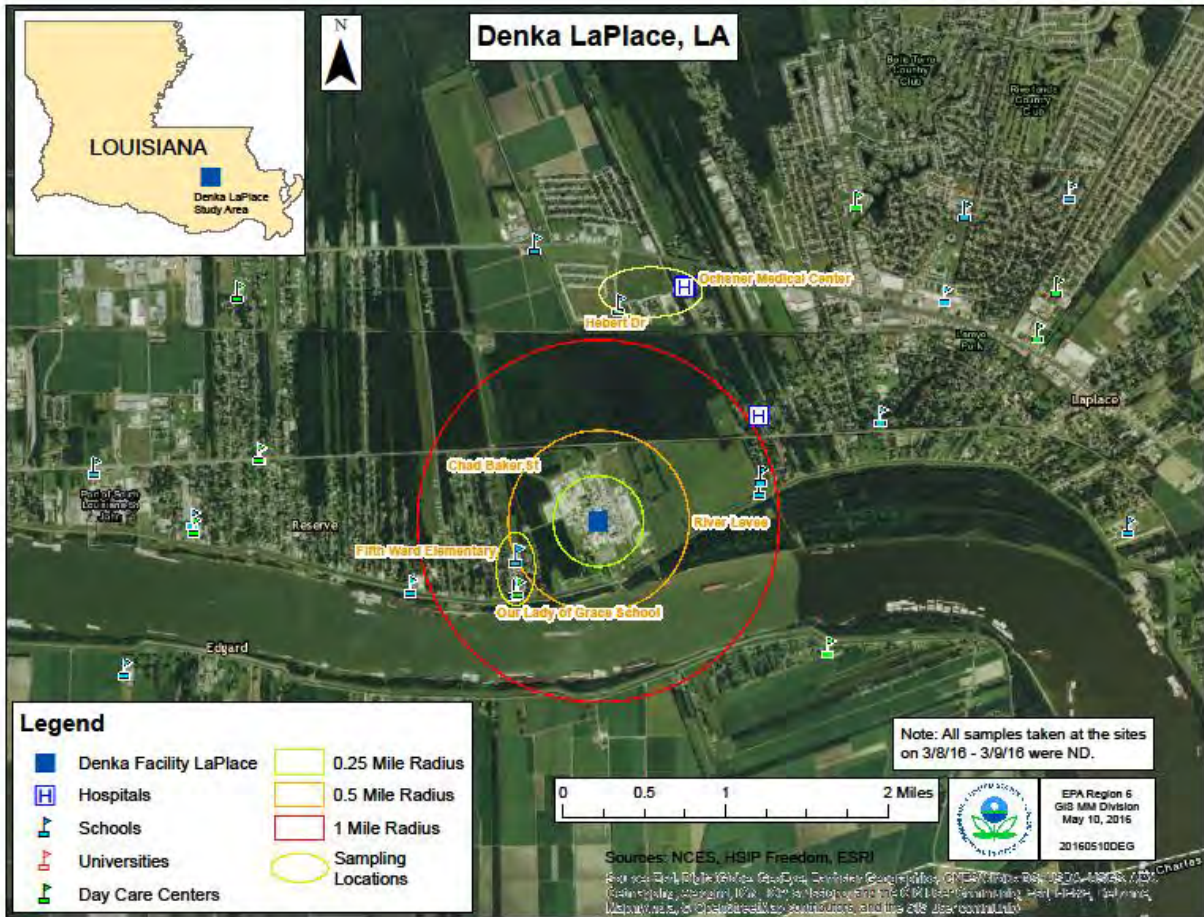
Date	LDEQ grab sample site	Sample Time	Sample Result Chloroprene ( $\mu\text{g}/\text{m}^3$ )
3/1/2016	Ochsner Medical Center	10:50 AM	2.12
3/2/2016	Ochsner Medical Center	12:00 AM	8.83
3/2/2016	Recreation Center	6:30 AM	3.47
3/2/2016	214 East 30th St.	9:10 AM	66.06
3/2/2016	East St. John High School	9:06 PM	not detected
3/3/2016	Hebert Dr.	12:05 AM	8.65
3/3/2016	Hebert Dr.	3:05 AM	3.68
3/3/2016	LA HWY 3179	6:49 AM	not detected
3/8/2016	LA HWY 3179	1:30 AM	34.18
3/8/2016	LA HWY 3179	1:06 PM	13.25
3/8/2016	LA HWY 3179	3:13 PM	39.58
3/8/2016	LA HWY 3179	5:07 PM	11.33
3/8/2016	LA HWY 3179	7:21 PM	20.21
3/8/2016	LA HWY 3179	9:38 PM	64.06
3/8/2016	LA HWY 3179	11:49 PM	10.39
3/9/2016	LA HWY 3179	1:20 AM	not detected
3/9/2016	LA HWY 3179	3:25 AM	37.30
3/9/2016	LA HWY 61	9:10 AM	9.05
3/9/2016	LA HWY 3179	5:13 PM	12.78
3/9/2016	LA HWY 3179	5:32 PM	8.51
3/9/2016	LA HWY 61	7:17 PM	18.03
3/9/2016	LA HWY 61	9:21 PM	23.90
3/9/2016	LA HWY 3179	11:31 PM	2.06
3/10/2016	LA HWY 61	3:20 AM	23.54
3/10/2016	LA HWY 61	5:21 AM	15.72

**TABLE 2**  
**EPA MONITORING RESULTS**

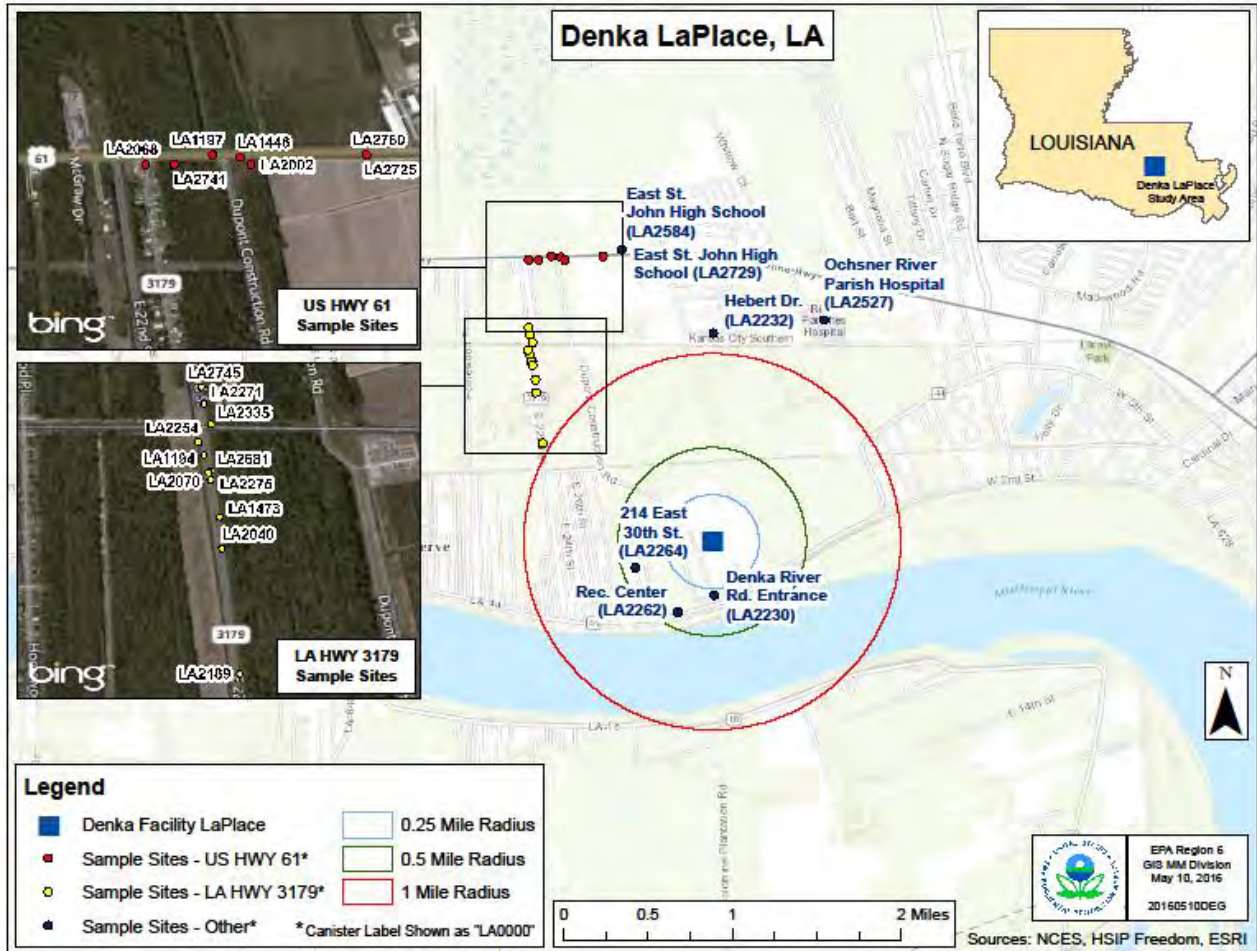
The following table summarizes the EPA samples taken and their respective analytical results for chloroprene.

Date	Sample Site	Sample Duration (hours)	Sample Results ( $\mu\text{g}/\text{m}^3$ )
3/1/16	Ochsner Medical Center	8	2.83
3/1/16	Hebert Dr.	7	not detected
3/1/16	Fifth Ward Elementary	26	1.12
3/1/16	Our Lady Of Grace School	8	not detected
3/1/16	Chad Baker St.	7	not detected
3/1/16	Chad Baker St.	23	not detected
3/2/16	Chad Baker St.	24	2.94
3/2/16	River Levee	28	not detected
3/2/16	Fifth Ward Elementary School	8	0.80
3/2/16	Ochsner Medical Center	2	not detected
3/2/16	Chad Baker St.	24	2.94
3/2/16	Our Lady Of Grace School	3	4.32
3/8/16	Chad Baker St.	24	not detected
3/8/16	Chad Baker St.	24	not detected
3/8/16	Our Lady Of Grace School	8	not detected
3/8/16	River Levee	24	not detected
3/8/16	Fifth Ward Elementary School	8	not detected
3/9/16	Chad Baker St.	24	not detected
3/9/16	Fifth Ward Elementary School	8	not detected
3/9/16	River Levee	24	not detected
3/9/16	Chad Baker St.	8	not detected
3/9/16	Ochsner Medical Center	8	not detected
3/9/16	Our Lady Of Grace School	24	not detected
3/9/16	Ochsner Medical Center	7	not detected

**FIGURE 1**  
**Denka/DuPont Facility, LaPlace, LA**

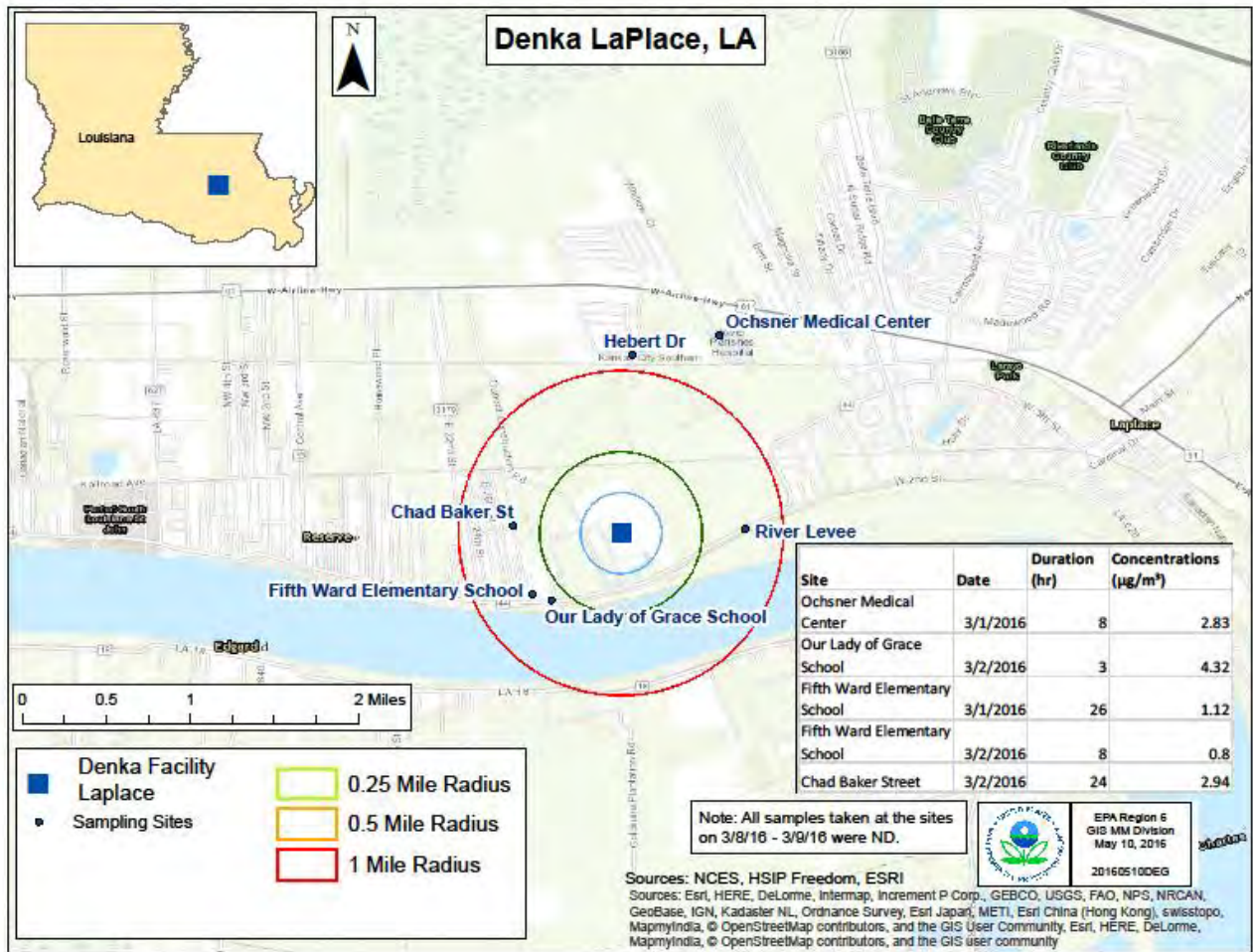


**FIGURE 2  
LDEQ SAMPLE LOCATIONS**





**FIGURE 3  
EPA SAMPLE LOCATIONS**



Note: The samples collected at Chad Baker Street on March 2, 2016 were collocated samples.

**ATTACHMENT 1**  
**LDEQ ANALYTICAL RESULTS**





# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03011609LA2527  
 Canister ID: LA2527  
 Sample Date: 3/1/2016  
 Start Time: 10:50 AM  
 Analysis ID: 03011609LA2527

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Ochsner River Parish Hosptal  
 LaPlace, LA 70068  
 Sample Collector: Bob Bailey  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	nd	nd	
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.12	0.88	J
1,2,4-Trimethylbenzene	0.14	0.68	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.05	0.25	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.12	0.58	J
2-Butanone	0.19	0.55	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.05	2.50	
Benzene	0.12	0.37	J
Benzyl Chloride	0.04	0.18	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.04	0.13	J
Carbon Tetrachloride	0.07	0.45	J
Chlorobenzene	0.01	0.07	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.04	0.08	J
Chloroprene	0.59	2.12	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.08	0.34	J
Freon-11	0.24	1.36	J
Freon-113	0.03	0.26	J
Freon-114	nd	nd	
Freon-12	0.49	2.40	J
m/p-Xylene	0.25	1.07	J
m-Dichlorobenzene	0.05	0.27	J
Methylene Chloride	0.25	0.86	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.05	0.29	J
o-Xylene	0.08	0.33	J
p-Dichlorobenzene	0.06	0.33	J
Styrene	0.07	0.28	J
Tetrachloroethylene	0.02	0.15	J
Tetrahydrofuran	nd	nd	
Toluene	0.92	3.47	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Acetic Acid = 0.32

Phenol = 0.26

1-Hexanol, 2-Ethyl- = 0.33

Unknown = 0.11



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021609LA2230  
 Canister ID: LA2230  
 Sample Date: 3/2/2016  
 Start Time: 12:00 AM      Duration: Grab  
 Analysis ID: 03021609LA2230      Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Ochsner River Parish Hospital  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.13	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	0.03	0.13	J
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.11	0.84	J
1,2,4-Trimethylbenzene	0.09	0.45	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	0.04	0.16	J
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.04	0.22	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	0.07	0.76	J
1-Ethyl-4-Methylbenzene	0.08	0.38	J
2-Butanone	0.32	0.95	J
2-Hexanone	0.04	0.17	J
4-Methyl-2-Pentanone	0.06	0.24	J
Acetone	1.34	3.19	
Benzene	0.18	0.58	J
Benzyl Chloride	0.04	0.18	J
Bromodichloromethane	0.01	0.09	J
Bromoform	0.01	0.14	J
Bromomethane	nd	nd	
Carbon Disulfide	0.09	0.28	J
Carbon Tetrachloride	0.08	0.48	J
Chlorobenzene	0.02	0.08	J
Chloroethane	nd	nd	
Chloroform	0.03	0.15	J

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.09	0.19	J
Chloroprene	2.44	8.83	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.03	0.09	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	0.04	0.15	J
Ethylbenzene	0.07	0.32	J
Freon-11	0.23	1.30	J
Freon-113	0.07	0.52	J
Freon-114	0.03	0.19	J
Freon-12	0.18	0.90	J
m/p-Xylene	0.21	0.89	J
m-Dichlorobenzene	0.04	0.22	J
Methylene Chloride	0.24	0.84	J
MTBE	0.01	0.05	J
n- Heptane	0.04	0.18	J
o-Dichlorobenzene	0.05	0.29	J
o-Xylene	0.06	0.28	J
p-Dichlorobenzene	0.05	0.30	J
Styrene	0.04	0.15	J
Tetrachloroethylene	0.04	0.30	J
Tetrahydrofuran	0.09	0.26	J
Toluene	1.62	6.12	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	0.02	0.08	J
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Acetic Acid = 0.23

D-Limonene = 0.22

Phenol = 0.14



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021609LA2262  
 Canister ID: LA2262  
 Sample Date: 3/2/2016  
 Start Time: 6:30 AM  
 Analysis ID: 03021609LA2262

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Rec. Center  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.10	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.10	0.76	J
1,2,4-Trimethylbenzene	0.06	0.29	J
1,2-Dibromoethane	0.01	0.10	J
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	0.66	1.46	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.05	0.26	J
2-Butanone	0.17	0.50	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.00	2.37	
Benzene	0.37	1.19	J
Benzyl Chloride	0.03	0.15	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.08	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.02	0.09	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.11	0.23	J
Chloroprene	0.96	3.47	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.26	J
Freon-11	0.21	1.20	J
Freon-113	0.07	0.53	J
Freon-114	0.01	0.10	J
Freon-12	0.45	2.24	J
m/p-Xylene	0.12	0.52	J
m-Dichlorobenzene	0.04	0.23	J
Methylene Chloride	0.23	0.82	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.04	0.25	J
o-Xylene	0.04	0.17	J
p-Dichlorobenzene	0.05	0.28	J
Styrene	nd	nd	
Tetrachloroethylene	0.02	0.12	J
Tetrahydrofuran	nd	nd	
Toluene	1.24	4.67	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 0.24

1-Chloro-1,3-Butadiene(?) = 0.81



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021613LA2584  
 Canister ID: LA2584  
 Sample Date: 3/2/2016  
 Start Time: 9:06 PM  
 Analysis ID: 03021613LA2584

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: East St. John High School  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.12	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.08	0.61	J
1,2,4-Trimethylbenzene	0.08	0.41	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.04	0.19	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.08	0.38	J
2-Butanone	0.20	0.60	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.27	3.03	
Benzene	0.20	0.63	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.06	0.18	J
Carbon Tetrachloride	0.07	0.41	J
Chlorobenzene	0.01	0.06	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.09	0.19	J
Chloroprene	nd	nd	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.09	0.39	J
Freon-11	0.20	1.15	J
Freon-113	0.06	0.49	J
Freon-114	nd	nd	
Freon-12	0.41	2.04	J
m/p-Xylene	0.23	0.99	J
m-Dichlorobenzene	0.03	0.19	J
Methylene Chloride	0.30	1.05	J
MTBE	nd	nd	
n- Heptane	0.09	0.39	J
o-Dichlorobenzene	0.03	0.20	J
o-Xylene	0.08	0.33	J
p-Dichlorobenzene	0.04	0.21	J
Styrene	0.03	0.12	J
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.49	1.85	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 0.29

Butane, 2-Methyl- = 0.41

Ethanol = 0.23

Pentane, 2-Methyl- = 0.23



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021612LA2264  
 Canister ID: LA2264  
 Sample Date: 3/2/2016  
 Start Time: 9:10 AM  
 Analysis ID: 03021612LA2264

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: 214 East 30th St.  
 LaPlace, LA 70068  
 Sample Collector: Bob Bailey  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.12	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.10	0.71	J
1,2,4-Trimethylbenzene	0.06	0.30	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.06	0.27	J
2-Butanone	0.13	0.38	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.88	2.10	
Benzene	0.15	0.49	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.05	0.16	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	nd	nd	
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	18.24	66.06	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	0.03	0.10	J
Ethylbenzene	0.08	0.36	J
Freon-11	0.21	1.16	J
Freon-113	0.06	0.43	J
Freon-114	nd	nd	
Freon-12	0.41	2.03	J
m/p-Xylene	0.13	0.54	J
m-Dichlorobenzene	0.04	0.22	J
Methylene Chloride	0.40	1.40	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.04	0.25	J
o-Xylene	0.05	0.20	J
p-Dichlorobenzene	0.05	0.28	J
Styrene	nd	nd	
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	2.16	8.14	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.  
 No Tics Found =



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021614LA2232  
 Canister ID: LA2232  
 Sample Date: 3/3/2016  
 Start Time: 12:05 AM      Duration: Grab  
 Analysis ID: 03021614LA2232      Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hebert Dr.  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.10	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.06	0.29	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.14	J
1,3-Butadiene	8.81	19.50	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.05	0.24	J
2-Butanone	0.18	0.53	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.91	2.15	
Benzene	0.19	0.60	J
Benzyl Chloride	0.02	0.12	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	nd	nd	
Carbon Tetrachloride	0.70	4.40	
Chlorobenzene	0.01	0.06	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.07	0.14	J
Chloroprene	2.39	8.65	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.25	J
Freon-11	0.22	1.21	J
Freon-113	0.07	0.51	J
Freon-114	0.02	0.12	J
Freon-12	0.42	2.06	J
m/p-Xylene	0.12	0.53	J
m-Dichlorobenzene	0.03	0.16	J
Methylene Chloride	0.23	0.81	J
MTBE	nd	nd	
n- Heptane	0.06	0.23	J
o-Dichlorobenzene	0.04	0.25	J
o-Xylene	0.04	0.19	J
p-Dichlorobenzene	0.03	0.17	J
Styrene	0.02	0.10	J
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.90	3.38	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 0.29

Column Artifact = 0.12



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03021615LA2729  
 Canister ID: LA2729  
 Sample Date: 3/3/2016  
 Start Time: 3:05 AM  
 Analysis ID: 03021615LA2729

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hebert Dr.  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.12	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.50	J
1,2,4-Trimethylbenzene	0.06	0.31	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	0.80	1.77	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.06	0.28	J
2-Butanone	0.16	0.47	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.67	1.59	
Benzene	0.20	0.62	J
Benzyl Chloride	0.03	0.14	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.04	0.12	J
Carbon Tetrachloride	0.07	0.43	J
Chlorobenzene	nd	nd	
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.11	0.23	J
Chloroprene	1.01	3.68	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.08	0.26	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.27	J
Freon-11	0.22	1.22	J
Freon-113	0.07	0.50	J
Freon-114	0.02	0.14	J
Freon-12	0.44	2.18	J
m/p-Xylene	0.14	0.59	J
m-Dichlorobenzene	0.03	0.16	J
Methylene Chloride	0.26	0.90	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.20	J
o-Xylene	0.04	0.18	J
p-Dichlorobenzene	0.04	0.21	J
Styrene	0.03	0.12	J
Tetrachloroethylene	0.02	0.11	J
Tetrahydrofuran	nd	nd	
Toluene	0.77	2.89	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Isobutane = 0.26

Butane = 0.40

Butane, 2-Methyl- = 0.28



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03031609LA2189  
 Canister ID: LA2189  
 Sample Date: 3/3/2016  
 Start Time: 6:49 AM  
 Analysis ID: 03031609LA2189

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: HWY LA 3179  
 LaPlace, LA 70068  
 Sample Collector: Doug Wafer  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.11	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.09	0.64	J
1,2,4-Trimethylbenzene	0.07	0.33	J
1,2-Dibromoethane	0.01	0.11	J
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.06	0.30	J
2-Butanone	0.18	0.53	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.79	1.88	
Benzene	0.17	0.53	J
Benzyl Chloride	0.03	0.15	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.43	J
Chlorobenzene	0.01	0.07	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.10	0.20	J
Chloroprene	nd	nd	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.05	0.19	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.26	J
Freon-11	0.22	1.22	J
Freon-113	0.07	0.54	J
Freon-114	0.02	0.15	J
Freon-12	0.44	2.17	J
m/p-Xylene	0.15	0.64	J
m-Dichlorobenzene	0.03	0.20	J
Methylene Chloride	0.25	0.85	J
MTBE	nd	nd	
n- Heptane	0.12	0.49	J
o-Dichlorobenzene	0.04	0.22	J
o-Xylene	0.05	0.23	J
p-Dichlorobenzene	0.05	0.27	J
Styrene	0.02	0.09	J
Tetrachloroethylene	0.01	0.10	J
Tetrahydrofuran	nd	nd	
Toluene	0.19	0.72	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 0.34

Column Artifact = 0.12



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03081614LA2681  
 Canister ID: LA2681  
 Sample Date: 3/8/2016  
 Start Time: 1:06 PM  
 Analysis ID: 03081614LA2681

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'11"N/90°32'11"W  
 LaPlace, LA 70068  
 Sample Collector: Randy Creighton  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.14	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.13	0.96	J
1,2,4-Trimethylbenzene	0.07	0.34	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.04	0.20	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.05	0.25	J
2-Butanone	0.20	0.59	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.05	2.49	
Benzene	0.13	0.42	J
Benzyl Chloride	0.04	0.21	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.02	0.09	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.04	0.08	J
Chloroprene	3.66	13.25	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.26	J
Freon-11	0.21	1.18	J
Freon-113	0.06	0.46	J
Freon-114	0.01	0.07	J
Freon-12	0.31	1.53	J
m/p-Xylene	0.14	0.61	J
m-Dichlorobenzene	0.04	0.24	J
Methylene Chloride	0.26	0.90	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.06	0.36	J
o-Xylene	0.05	0.22	J
p-Dichlorobenzene	0.05	0.30	J
Styrene	nd	nd	
Tetrachloroethylene	0.02	0.14	J
Tetrahydrofuran	nd	nd	
Toluene	0.28	1.06	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Unknown = 0.30

D-Limonene = 0.12

Nonanal = 0.49



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03151611LA2254  
 Canister ID: LA2254  
 Sample Date: 3/8/2016  
 Start Time: 1:30 AM      Duration: Grab  
 Analysis ID: 03151611LA2254      Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'14.1"N/90°32'24.3"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.06	0.45	J
1,2,4-Trimethylbenzene	0.05	0.25	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	1.53	3.38	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.10	0.29	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.07	2.54	
Benzene	0.13	0.42	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	9.44	34.18	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	0.01	0.07	J
Freon-12	0.45	2.23	J
m/p-Xylene	0.10	0.43	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.24	0.83	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.04	0.24	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.30	1.13	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.  
 Isopropyl Alcohol = 0.50



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03081620LA2070  
 Canister ID: LA2070  
 Sample Date: 3/8/2016  
 Start Time: 11:49 PM  
 Analysis ID: 03081620LA2070

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'10.8"N/90°32'23.2"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	nd	nd	
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.06	0.45	J
1,2,4-Trimethylbenzene	0.05	0.25	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.27	0.80	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.31	3.11	
Benzene	0.13	0.42	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	2.87	10.39	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.07	0.54	J
Freon-114	0.01	0.07	J
Freon-12	0.44	2.18	J
m/p-Xylene	0.11	0.48	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.23	0.80	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.18	0.68	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.  
 Nonanal = 0.52



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03081616LA1473  
 Canister ID: LA1473  
 Sample Date: 3/8/2016  
 Start Time: 3:13 PM  
 Analysis ID: 03081616LA1473

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'6"N/90°32'22"W  
 LaPlace, LA 70068  
 Sample Collector: Randy Creighton  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	0.14	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.10	0.74	J
1,2,4-Trimethylbenzene	0.07	0.34	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	2.39	5.29	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.06	0.29	J
2-Butanone	0.20	0.59	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.05	2.49	
Benzene	0.16	0.51	J
Benzyl Chloride	0.03	0.16	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.04	0.12	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.02	0.09	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.05	0.10	J
Chloroprene	10.93	39.58	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.26	J
Freon-11	0.21	1.18	J
Freon-113	0.06	0.46	J
Freon-114	0.01	0.07	J
Freon-12	0.43	2.13	J
m/p-Xylene	0.14	0.61	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.25	0.87	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.07	0.42	J
o-Xylene	0.04	0.17	J
p-Dichlorobenzene	0.04	0.24	J
Styrene	0.02	0.09	J
Tetrachloroethylene	0.02	0.14	J
Tetrahydrofuran	nd	nd	
Toluene	0.43	1.62	J
trans-1,2-Dichloroethene	0.05	0.20	J
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.  
 Unknown = 0.15



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03081617LA2335  
 Canister ID: LA2335  
 Sample Date: 3/8/2016  
 Start Time: 5:07 PM  
 Analysis ID: 03081617LA2335

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'16"N/90°32'23"W  
 LaPlace, LA 70068  
 Sample Collector: Randy Creighton  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.06	0.29	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	1.85	4.09	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.06	0.29	J
2-Butanone	0.17	0.50	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.01	2.40	
Benzene	0.21	0.67	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	0.06	0.12	J
Chloroprene	3.13	11.33	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.07	0.24	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.07	0.30	J
Freon-11	0.23	1.29	J
Freon-113	0.06	0.46	J
Freon-114	0.01	0.07	J
Freon-12	0.44	2.18	J
m/p-Xylene	0.15	0.65	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.24	0.83	J
MTBE	nd	nd	
n- Heptane	0.11	0.45	J
o-Dichlorobenzene	0.05	0.30	J
o-Xylene	0.05	0.22	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	0.03	0.13	J
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.39	1.47	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03081618LA2040  
 Canister ID: LA2040  
 Sample Date: 3/8/2016  
 Start Time: 7:21 PM  
 Analysis ID: 03081618LA2040

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'2.6"N/90°32'21.8"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	nd	nd	
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.12	0.59	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.05	0.25	J
1,3-Butadiene	1.69	3.74	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.11	0.54	J
2-Butanone	0.17	0.50	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.99	2.35	
Benzene	0.23	0.73	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.04	0.12	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	5.58	20.21	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.13	0.56	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	0.02	0.14	J
Freon-12	0.44	2.18	J
m/p-Xylene	0.38	1.65	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.25	0.87	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.05	0.30	J
o-Xylene	0.13	0.56	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	0.03	0.13	J
Tetrachloroethylene	0.02	0.14	J
Tetrahydrofuran	nd	nd	
Toluene	0.97	3.66	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 1.15

Pentane, 2-Methyl- = 0.46

Unknown = 0.27

Butane, 2-Methyl- = 1.00

N-Hexane = 0.31

Unknown = 0.14



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03151610LA1194  
 Canister ID: LA1194  
 Sample Date: 3/8/2016  
 Start Time: 9:38 PM  
 Analysis ID: 03151610LA1194

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'12.7"N/90°32'23.7"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.06	0.29	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.03	0.15	J
1,3-Butadiene	1.87	4.14	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.05	0.25	J
2-Butanone	0.10	0.29	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.77	1.83	
Benzene	0.18	0.58	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	17.69	64.06	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.04	0.14	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.06	0.26	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	0.01	0.07	J
Freon-12	0.43	2.13	J
m/p-Xylene	0.14	0.61	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.23	0.80	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.05	0.30	J
o-Xylene	0.04	0.17	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.43	1.62	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Butane = 0.42

Butane, 2-Methyl- = 0.26

Unknown = 0.14

Unknown = 0.17



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091619LA2275  
 Canister ID: LA2275  
 Sample Date: 3/9/2016  
 Start Time: 1:20 AM  
 Analysis ID: 03091619LA2275

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'10"N/90°32'23"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.05	0.37	J
1,2,4-Trimethylbenzene	0.03	0.15	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	4.28	9.47	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.03	0.15	J
2-Butanone	0.13	0.38	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.63	1.50	
Benzene	0.21	0.67	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	nd	nd	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	nd	nd	
Freon-12	0.45	2.23	J
m/p-Xylene	0.08	0.35	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.26	0.90	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.05	0.30	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.02	0.12	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.25	0.94	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091618LA2745  
 Canister ID: LA2745  
 Sample Date: 3/9/2016  
 Start Time: 11:31 PM  
 Analysis ID: 03091618LA2745

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'20"N/90°32'24"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.06	0.45	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.21	0.62	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.78	1.85	
Benzene	0.12	0.38	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	0.57	2.06	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.07	0.54	J
Freon-114	nd	nd	
Freon-12	0.46	2.27	J
m/p-Xylene	0.09	0.39	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.28	0.97	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.13	0.49	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03151611LA2271  
 Canister ID: LA2271  
 Sample Date: 3/9/2016  
 Start Time: 3:25 AM  
 Analysis ID: 03151611LA2271

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'18.2"N/90°32'23.7"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	0.13	0.53	J
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	0.81	1.79	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.13	0.38	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.78	1.85	
Benzene	0.14	0.45	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	10.30	37.30	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.02	0.07	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.07	0.54	J
Freon-114	nd	nd	
Freon-12	0.43	2.13	J
m/p-Xylene	0.09	0.39	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.26	0.90	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.04	0.24	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.28	1.06	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Unknown = 0.29

Cyclohexene, 1-Chloro-5-(1-Chloroethenyl)- = 0.14



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091615LA1197  
 Canister ID: LA1197  
 Sample Date: 3/9/2016  
 Start Time: 5:13 PM  
 Analysis ID: 03091615LA1197

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'39"N/90°32'17"W  
 LaPlace, LA 70068  
 Sample Collector: Randy Creighton  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	0.04	0.16	J
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.08	0.59	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	2.88	6.37	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.20	0.59	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	1.67	3.97	
Benzene	0.14	0.45	J
Benzyl Chloride	0.03	0.16	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.08	0.50	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	3.53	12.78	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.23	1.29	J
Freon-113	0.07	0.54	J
Freon-114	nd	nd	
Freon-12	0.45	2.23	J
m/p-Xylene	0.08	0.35	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.28	0.97	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.04	0.24	J
o-Xylene	0.02	0.09	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.02	0.14	J
Tetrahydrofuran	nd	nd	
Toluene	0.16	0.60	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091609LA2760  
 Canister ID: LA2760  
 Sample Date: 3/9/2016  
 Start Time: 5:32 PM  
 Analysis ID: 03091609LA2760

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: LA3179,30°4'50.3"N/90°32'49.0"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.08	0.59	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.14	0.41	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.63	1.50	
Benzene	0.11	0.35	J
Benzyl Chloride	nd	nd	
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	2.35	8.51	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	nd	nd	
Freon-12	0.43	2.13	J
m/p-Xylene	0.09	0.39	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.21	0.73	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.04	0.24	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.17	0.64	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.  
 Unknown = 0.30



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091616LA2002  
 Canister ID: LA2002  
 Sample Date: 3/9/2016  
 Start Time: 7:17 PM  
 Analysis ID: 03091616LA2002

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hwy61,30°4'38"N/90°32'13"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	2.70	5.97	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.14	0.41	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.84	2.00	
Benzene	0.15	0.48	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.03	0.09	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	4.98	18.03	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.07	0.54	J
Freon-114	nd	nd	
Freon-12	0.44	2.18	J
m/p-Xylene	0.10	0.43	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.27	0.94	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.21	0.79	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Unknown = 0.14



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091614LA1446  
 Canister ID: LA1446  
 Sample Date: 3/9/2016  
 Start Time: 9:10 AM      Duration: Grab  
 Analysis ID: 03091614LA1446      Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hwy61,30°4'36"N/90°32'13"W  
 LaPlace, LA 70068  
 Sample Collector: Randy Creighton  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.09	0.67	J
1,2,4-Trimethylbenzene	0.15	0.74	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.05	0.25	J
1,3-Butadiene	1.29	2.85	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.15	0.74	J
2-Butanone	0.16	0.47	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.94	2.23	
Benzene	0.53	1.69	
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.02	0.09	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	2.50	9.05	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	0.22	0.76	J
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.13	0.56	J
Freon-11	0.21	1.18	J
Freon-113	0.06	0.46	J
Freon-114	nd	nd	
Freon-12	0.44	2.18	J
m/p-Xylene	0.41	1.78	J
m-Dichlorobenzene	0.04	0.24	J
Methylene Chloride	0.24	0.83	J
MTBE	nd	nd	
n- Heptane	0.35	1.43	J
o-Dichlorobenzene	0.04	0.24	J
o-Xylene	0.14	0.61	J
p-Dichlorobenzene	0.04	0.24	J
Styrene	0.06	0.26	J
Tetrachloroethylene	0.02	0.14	J
Tetrahydrofuran	nd	nd	
Toluene	0.87	3.28	
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.  
 J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Isobutane = 0.55  
 Butane, 2-Methyl- = 4.08  
 2-Pentene, (E)- = 0.31  
 12:00:00 Am = 61.00  
 N-Hexane = 0.62

Butane = 8.62  
 2-Butene, 2-Methyl- = 0.31  
 Cyclopropane, 1,2-Dimethyl-, Trans = 0.56  
 Pentane, 2-Methyl- = 1.18  
 Cyclopentane, Methyl- = 0.33



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03091617LA2068  
 Canister ID: LA2068  
 Sample Date: 3/9/2016  
 Start Time: 9:21 PM  
 Analysis ID: 03091617LA2068

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hwy61,30°4'38"N/90°32'24"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: William Felicien

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.06	0.45	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	2.60	5.75	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.03	0.15	J
2-Butanone	0.14	0.41	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.80	1.90	
Benzene	0.12	0.38	J
Benzyl Chloride	0.03	0.16	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	6.60	23.90	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	nd	nd	
Freon-12	0.44	2.18	J
m/p-Xylene	0.08	0.35	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.25	0.87	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.29	1.09	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality

## Mobile Air Monitoring Laboratory

Sample ID: 03101610LA2741  
 Canister ID: LA2741  
 Sample Date: 3/10/2016  
 Start Time: 3:20 AM  
 Analysis ID: 03101610LA2741

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hwy 61, 30°4'38"N/90°30'21"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichloroethane	nd	nd	
1,1-Dichloroethane	0.07	0.28	J
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.06	0.45	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	nd	nd	
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.04	0.20	J
2-Butanone	0.18	0.53	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.88	2.09	
Benzene	0.12	0.38	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	6.50	23.54	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.07	0.54	J
Freon-114	nd	nd	
Freon-12	0.44	2.18	J
m/p-Xylene	0.09	0.39	J
m-Dichlorobenzene	0.02	0.12	J
Methylene Chloride	0.31	1.08	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.03	0.13	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	0.02	0.09	J
Tetrachloroethylene	nd	nd	
Tetrahydrofuran	nd	nd	
Toluene	0.17	0.64	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.



# Louisiana Department of Environmental Quality Mobile Air Monitoring Laboratory

Sample ID: 03101609LA2725  
 Canister ID: LA2725  
 Sample Date: 3/10/2016  
 Start Time: 5:21 AM  
 Analysis ID: 03101609LA2725

Duration: Grab  
 Method: TO-15 (GC/MS)

Project: DuPont(Denka)  
 Sample Location: Hwy 61,30°4'39"N/90°32'1"W  
 LaPlace, LA 70068  
 Sample Collector: William Felicien  
 Analyzed By: Randy Creighton

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
1,1,1-Trichloroethane	nd	nd	
1,1,2,2-Tetrachloroethane	0.01	0.07	J
1,1,2-Trichlorethane	nd	nd	
1,1-Dichloroethane	nd	nd	
1,1-Dichloroethene	nd	nd	
1,2,4-Trichlorobenzene	0.07	0.52	J
1,2,4-Trimethylbenzene	0.04	0.20	J
1,2-Dibromoethane	nd	nd	
1,2-Dichloroethane	nd	nd	
1,2-Dichloropropane	nd	nd	
1,3,5-Trimethylbenzene	0.02	0.10	J
1,3-Butadiene	0.49	1.08	J
1,3-Hexachlorobutadiene	nd	nd	
1-Ethyl-4-Methylbenzene	0.03	0.15	J
2-Butanone	0.11	0.32	J
2-Hexanone	nd	nd	
4-Methyl-2-Pentanone	nd	nd	
Acetone	0.75	1.78	
Benzene	0.10	0.32	J
Benzyl Chloride	0.02	0.10	J
Bromodichloromethane	nd	nd	
Bromoform	nd	nd	
Bromomethane	nd	nd	
Carbon Disulfide	0.02	0.06	J
Carbon Tetrachloride	0.07	0.44	J
Chlorobenzene	0.01	0.05	J
Chloroethane	nd	nd	
Chloroform	nd	nd	

Compound	ppbv	ug/m <sup>3</sup>	Qualifier
Chloromethane	nd	nd	
Chloroprene	4.34	15.72	
cis-1,2-Dichloroethene	nd	nd	
cis-1,3-Dichloropropene	nd	nd	
Cyclohexane	nd	nd	
Dibromochloromethane	nd	nd	
Ethyl Acetate	nd	nd	
Ethylbenzene	0.05	0.22	J
Freon-11	0.22	1.24	J
Freon-113	0.06	0.46	J
Freon-114	nd	nd	
Freon-12	0.44	2.18	J
m/p-Xylene	0.08	0.35	J
m-Dichlorobenzene	0.03	0.18	J
Methylene Chloride	0.29	1.01	J
MTBE	nd	nd	
n- Heptane	nd	nd	
o-Dichlorobenzene	0.03	0.18	J
o-Xylene	0.02	0.09	J
p-Dichlorobenzene	0.03	0.18	J
Styrene	nd	nd	
Tetrachloroethylene	0.01	0.07	J
Tetrahydrofuran	nd	nd	
Toluene	0.14	0.53	J
trans-1,2-Dichloroethene	nd	nd	
trans-1,3-Dichloropropene	nd	nd	
Trichloroethylene	nd	nd	
Vinyl Chloride	nd	nd	

Notes: The Practical Quantitation Limit (PQL) for all compounds is 0.50 ppbv with the exception of m/p-xylene which is 1.00 ppbv.

J = Indicates an estimated value below the Practical Quantitation Limit (PQL) and may include false positives.

Tentatively Identified Compounds: Concentrations (in ppbv) are estimations only.

Unknown = 0.38

0.00





**ATTACHMENT 2**  
**EPA ANALYTICAL RESULTS**







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----- DuPont / Denka - Laplace
Sample Collection Date(s)-- 03/01/16 - 03/03/16
Contact----- Fran Verhalen (6MM-AM)
Report Date----- 04/04/16
Project #----- 16CAA049
Work Order(s)----- 1603001

Analyses included in this report:

Air TO-15(SIM/Scan) dual units ug/m3::Air TO-15(SIM/Scan) dual units

Report Narrative

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects.

Report Approvals:

RICHARD MCMILLIN

Digitally signed by RICHARD MCMILLIN
DN: cn=US, o=U.S. Government, ou=USEPA, ou=Staff,
on=RICHARD MCMILLIN, dnQualifier=00000851e,
Date: 2016.04.04 16:35:42 -05'00'

Richard McMillin
Region 6 Laboratory Technical Manager

David W. McQuiddy

Digitally signed by David W. McQuiddy
DN: cn=David W. McQuiddy, ou=Houston Laboratory,
ou=USEPA, email=mcquiddy.david@epa.gov, c=US,
Date: 2016.04.05 07:17:09 -05'00'

David W. McQuiddy
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: DuPont / Denka - Laplace

Project Number: 16CAA049

Data Management Coordinator: Christy Warren

\_\_\_\_\_  
Data Management Coordinator Signature

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
Date

Date Transmitted: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

\_\_\_\_\_  
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Please provide a reason for holding:





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**ANALYTICAL REPORT FOR SAMPLES**

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
238 Chad Baker (0131)	1603001-01	air	3/3/16 8:29	03/04/16 10:00
Levée (0156)	1603001-02	air	3/3/16 13:43	03/04/16 10:00
Ochsner Hosp (0188)	1603001-03	air	3/1/16 16:00	03/04/16 10:00
Hebert (0189)	1603001-04	air	3/1/16 20:05	03/04/16 10:00
238 Chad Baker (0191)	1603001-05	air	3/1/16 16:38	03/04/16 10:00
5th Ward Elem (0275)	1603001-06	air	3/2/16 19:20	03/04/16 10:00
238 Chad Baker (0276)	1603001-07	air	3/2/16 8:17	03/04/16 10:00
Ochsner (0281)	1603001-08	air	3/2/16 13:19	03/04/16 10:00
5th Ward Elem (H3427)	1603001-09	air	3/2/16 11:30	03/04/16 10:00
Our LOG (H3428)	1603001-10	air	3/1/16 16:21	03/04/16 10:00
238 Chad Baker (H3440)	1603001-11	air	3/3/16 8:29	03/04/16 10:00
Our LOG(H3444)	1603001-12	air	3/2/16 14:10	03/04/16 10:00
Blank Trip (0283)	1603001-13	air	3/3/16 0:00	03/04/16 10:00



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**QC SUMMARY REPORT**

<b>Air TO-15(SIM/Scan) dual units</b>	
<b>B6C0808</b>	
<b>air</b>	
<b>Samples: 9</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B6C0808-BLK1	
B6C0808-BS1	
B6C0808-DUP1	1603001-10
B6C0808-DUP2	1603001-03
B6C0808-DUP3	1603001-12
B6C0808-DUP4	1603001-01
B6C0808-DUP5	1603001-06
B6C0808-MRL1	

<b>ug/m3::Air TO-15(SIM/Scan) dual units</b>	
<b>B6C0808</b>	
<b>air</b>	
<b>Samples: 9</b>	<b>ReExts: 0</b>
LAB NUMBER	SOURCE
B6C0808-BLK1	
B6C0808-BS1	
B6C0808-DUP1	1603001-10
B6C0808-DUP2	1603001-03
B6C0808-DUP3	1603001-12
B6C0808-DUP4	1603001-01
B6C0808-DUP5	1603001-06
B6C0808-MRL1	





# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

## Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1603001-01

Station ID: 238 Chad Baker (0131)

Batch: B6C0808

Collected Start: 3/2/2016 8:29:00AM

Initial Pressure: 11.94 psia

Sample Type: air

Collected End: 3/3/2016 8:29:00AM

Sample Qualifiers:

### Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.4		104	70-130	03/08/16	03/08/16
1,2-Dichloroethane-d4	10.0		100	70-130	"	"
Toluene-d8	9.82		98.2	70-130	"	"

### Targets

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	0.81	2.94		0.05	0.18	1.0	03/08/16	03/08/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-01**

**Station ID: 238 Chad Baker (0131)**

Batch: B6C0808

Date Collected: 03/03/16

Initial Pressure: 11.94 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			100	70-130	"	"
<i>Toluene-d8</i>			98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m³		ppbv	µg/m³			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3			ug/m3				
2-Chloro-1,3-butadiene (126-99-8)	2.94	10.7		0.18	0.66	1.0	03/08/16	03/08/16

FEO





Environmental Protection Agency

# Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1603001-02

Station ID: Levee (0156)

Batch: B6C0808

Collected Start: 3/2/2016 8:49:00AM

Initial Pressure: 14.95 psia

Sample Type: air

Collected End: 3/3/2016 1:43:00PM

Sample Qualifiers:

### Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.4		104	70-130	03/08/16	03/08/16
1,2-Dichloroethane-d4	9.96		99.6	70-130	"	"
Toluene-d8	9.83		98.3	70-130	"	"

### Targets

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-02**

**Station ID: Levee (0156)**

Batch: B6C0808

Date Collected: 03/03/16

Initial Pressure: 14.95 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	73.8		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			99.6	70-130	"	"
<i>Toluene-d8</i>			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ug/m3	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	ND	0		0.18	0.66	1.0	03/08/16	03/08/16

FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-03**

**Station ID: Ochsner Hosp (0188)**

Batch: B6C0808

Collected Start: 3/1/2016 8:00:00AM

Initial Pressure: 13.77 psia

Sample Type: air

Collected End: 3/1/2016 4:00:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.4		104	70-130	03/08/16	03/08/16
1,2-Dichloroethane-d4	10.1		101	70-130	"	"
Toluene-d8	9.86		98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	0.78	2.83		0.05	0.18	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-03**

**Station ID: Ochsner Hosp (0188)**

Batch: B6C0808

Date Collected: 03/01/16

Initial Pressure: 13.77 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			101	70-130	"	"
<i>Toluene-d8</i>			98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m³		ppbv	µg/m³			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m³		ug/m3	µg/m³			
<b>2-Chloro-1,3-butadiene (126-99-8)</b>	2.83	10.3		0.18	0.66	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-04**

**Station ID: Hebert (0189)**

Batch: B6C0808

Collected Start: 3/1/2016 9:57:00AM

Initial Pressure: 15.05 psia

Sample Type: air

Collected End: 3/1/2016 8:05:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>	10.0		100	70-130	"	"
<i>Toluene-d8</i>	9.83		98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/08/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-04**

**Station ID: Hebert (0189)**

Batch: B6C0808

Date Collected: 03/01/16

Initial Pressure: 15.05 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	74		104	70-130	03/08/16	03/08/16
1,2-Dichloroethane-d4			100	70-130	"	"
Toluene-d8			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3			ug/m3				
2-Chloro-1,3-butadiene (126-99-8)	ND	0.13		0.18	0.66	1.0	03/08/16	03/08/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-05**

**Station ID: 238 Chad Baker (0191)**

Batch: B6C0808

Collected Start: 3/1/2016 9:27:00AM

Initial Pressure: 13.01 psia

Sample Type: air

Collected End: 3/1/2016 4:38:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>	10.1		101	70-130	"	"
<i>Toluene-d8</i>	9.86		98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/09/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-05**

**Station ID: 238 Chad Baker (0191)**

Batch: B6C0808

Date Collected: 03/01/16

Initial Pressure: 13.01 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.6		105	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>			101	70-130	"	"
<i>Toluene-d8</i>			98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3			ug/m3				
2-Chloro-1,3-butadiene (126-99-8)	ND	0.13		0.18	0.66	1.0	03/08/16	03/09/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-06**

**Station ID: 5th Ward Elem (0275)**

Batch: B6C0808

Collected Start: 3/2/2016 11:36:00AM

Initial Pressure: 13.85 psia

Sample Type: air

Collected End: 3/2/2016 7:20:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>	10.2		102	70-130	"	"
<i>Toluene-d8</i>	9.83		98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	0.22	0.80		0.05	0.18	1.0	03/08/16	03/09/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-06**

**Station ID: 5th Ward Elem (0275)**

Batch: B6C0808

Date Collected: 03/02/16

Initial Pressure: 13.85 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.1		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>			102	70-130	"	"
<i>Toluene-d8</i>			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3			ug/m3				
2-Chloro-1,3-butadiene (126-99-8)	0.80	2.90		0.18	0.66	1.0	03/08/16	03/09/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-07**

**Station ID: 238 Chad Baker (0276)**

Batch: B6C0808

Collected Start: 3/1/2016 9:27:00AM

Initial Pressure: 15.32 psia

Sample Type: air

Collected End: 3/2/2016 8:17:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>	9.89		98.9	70-130	"	"
<i>Toluene-d8</i>	9.81		98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/08/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-07**

**Station ID: 238 Chad Baker (0276)**

Batch: B6C0808

Date Collected: 03/02/16

Initial Pressure: 15.32 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	73.9		104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			98.9	70-130	"	"
<i>Toluene-d8</i>			98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3    μg/m <sup>3</sup>		Analyte Qualifiers	Reporting Limit ppbv    μg/m <sup>3</sup>		Dilution	Prepared	Analyzed
----------------------	--------------------------------------	--	-----------------------	--	--	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3		Analyte Qualifiers	Reporting Limit ug/m3		Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND	0		0.18	0.66	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-08**

**Station ID: Ochsner (0281)**

Batch: B6C0808

Collected Start: 3/2/2016 11:05:00AM

Initial Pressure: 14.79 psia

Sample Type: air

Collected End: 3/2/2016 1:19:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>	10.2		102	70-130	"	"
<i>Toluene-d8</i>	9.80		98.0	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/09/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-08**

**Station ID: Ochsner (0281)**

Batch: B6C0808

Date Collected: 03/02/16

Initial Pressure: 14.79 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.1		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>			102	70-130	"	"
<i>Toluene-d8</i>			98.0	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/08/16	03/09/16 FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603001-09

Station ID: 5th Ward Elem (H3427)

Batch: B6C0808

Collected Start: 3/1/2016 9:01:00AM

Initial Pressure: 13.38 psia

Sample Type: air

Collected End: 3/2/2016 11:30:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.4		104	70-130	03/08/16	03/09/16
1,2-Dichloroethane-d4	10.2		102	70-130	"	"
Toluene-d8	9.83		98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	0.31	1.12		0.05	0.18	1.0	03/08/16	03/09/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603001-09

Station ID: 5th Ward Elem (H3427)

Batch: B6C0808

Date Collected: 03/02/16

Initial Pressure: 13.38 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	74.5		104	70-130	03/08/16	03/09/16
1,2-Dichloroethane-d4			102	70-130	"	"
Toluene-d8			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
----------------------	-----------------	-----------------	-----------------------	-------------------------	--------------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	1.12 4.08		0.18 0.66	1.0	03/08/16	03/09/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-10**

**Station ID: Our LOG (H3428)**

Batch: B6C0808

Collected Start: 3/1/2016 8:48:00AM

Initial Pressure: 14.76 psia

Sample Type: air

Collected End: 3/1/2016 4:21:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.3		103	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>	9.77		97.7	70-130	"	"
<i>Toluene-d8</i>	9.81		98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/08/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-10**

**Station ID: Our LOG (H3428)**

Batch: B6C0808

Date Collected: 03/01/16

Initial Pressure: 14.76 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	73.6		103	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			97.7	70-130	"	"
<i>Toluene-d8</i>			98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3    μg/m <sup>3</sup>		Analyte Qualifiers	Reporting Limit ppbv    μg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	--------------------------------------	--	-----------------------	--	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3		Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND	0.26		0.18    0.66	1.0	03/08/16	03/08/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603001-11

Station ID: 238 Chad Baker (H3440)

Batch: B6C0808

Collected Start: 3/2/2016 8:29:00AM

Initial Pressure: 14.18 psia

Sample Type: air

Collected End: 3/3/2016 8:29:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>	10.1		101	70-130	"	"
<i>Toluene-d8</i>	9.81		98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	0.81	2.94		0.05	0.18	1.0	03/08/16	03/09/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-11**

**Station ID: 238 Chad Baker (H3440)**

Batch: B6C0808

Date Collected: 03/03/16

Initial Pressure: 14.18 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	74.4		104	70-130	03/08/16	03/09/16
1,2-Dichloroethane-d4			101	70-130	"	"
Toluene-d8			98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed	
2-Chloro-1,3-butadiene (126-99-8)	2.94	10.7	0.18	0.66	1.0	03/08/16	03/09/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-12**

**Station ID: Our LOG(H3444)**

Batch: B6C0808

Collected Start: 3/2/2016 11:22:00AM

Initial Pressure: 15.03 psia

Sample Type: air

Collected End: 3/2/2016 2:10:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result		Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
	ppbv						
<i>4-Bromofluorobenzene</i>	10.4			104	70-130	03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>	9.97			99.7	70-130	"	"
<i>Toluene-d8</i>	9.83			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
<b>2-Chloro-1,3-butadiene (126-99-8)</b>	<b>1.19</b>	<b>4.32</b>		0.05	0.18	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-12**

**Station ID: Our LOG(H3444)**

Batch: B6C0808

Date Collected: 03/02/16

Initial Pressure: 15.03 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery		Prepared	Analyzed
				Limits			
<i>4-Bromofluorobenzene</i>	73.9		104	70-130		03/08/16	03/08/16
<i>1,2-Dichloroethane-d4</i>			99.7	70-130		"	"
<i>Toluene-d8</i>			98.3	70-130		"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ug/m3			ug/m3				
<b>2-Chloro-1,3-butadiene (126-99-8)</b>	4.32	15.7		0.18	0.66	1.0	03/08/16	03/08/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-13**

**Station ID: Blank Trip (0283)**

Batch: B6C0808

Collected Start: 3/1/2016 12:00:00AM

Initial Pressure: 0.02 psia

Sample Type: air

Collected End: 3/3/2016 12:00:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.4		104	70-130	03/08/16	03/09/16
<i>1,2-Dichloroethane-d4</i>	10.1		101	70-130	"	"
<i>Toluene-d8</i>	9.81		98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/08/16	03/09/16 FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603001-13**

**Station ID: Blank Trip (0283)**

Batch: B6C0808

Date Collected: 03/03/16

Initial Pressure: 0.02 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	74.1		104	70-130	03/08/16	03/09/16
1,2-Dichloroethane-d4			101	70-130	"	"
Toluene-d8			98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	Result µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-----------------------------	-----------------------	-------------------------	--------------------------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Reporting Limit	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18	0.66	1.0	03/08/16	03/09/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Blank (B6C0808-BLK1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.3		10.0	103	70-130
<i>4-Bromofluorobenzene</i>	73.7		10.0	103	70-130
<i>1,2-Dichloroethane-d4</i>	9.83		10.0	98.3	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.82		10.0	98.2	70-130
<i>Toluene-d8</i>			10.0		70-130

**Blank (B6C0808-BLK1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit
<b>2-Chloro-1,3-butadiene</b>	ND		0.18
2-Chloro-1,3-butadiene	U		0.05



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**LCS (B6C0808-BS1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.3		10.0	103	70-130
<i>4-Bromofluorobenzene</i>	73.5		10.0	103	70-130
<i>1,2-Dichloroethane-d4</i>	9.63		10.0	96.3	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>			10.0		70-130
<i>Toluene-d8</i>	9.80		10.0	98.0	70-130

**LCS (B6C0808-BS1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
2-Chloro-1,3-butadiene	10.6			10.3	103	70-130
2-Chloro-1,3-butadiene	38.5			10.3	103	70-130





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Duplicate (B6C0808-DUP1)**

Source: 1603001-10

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.3		10.0	103	70-130
<i>4-Bromofluorobenzene</i>	73.6		10.0	103	70-130
<i>1,2-Dichloroethane-d4</i>	9.98		10.0	99.8	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.81		10.0	98.1	70-130
<i>Toluene-d8</i>			10.0		70-130

**Duplicate (B6C0808-DUP1)**

Source: 1603001-10

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	U		0.05				20
2-Chloro-1,3-butadiene	ND		0.18				20



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Duplicate (B6C0808-DUP2)**

Source: 1603001-03

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	73.9		10.0	104	70-130
<i>4-Bromofluorobenzene</i>	10.4		10.0	104	70-130
<i>1,2-Dichloroethane-d4</i>	9.87		10.0	98.7	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.84		10.0	98.4	70-130
<i>Toluene-d8</i>			10.0		70-130

**Duplicate (B6C0808-DUP2)**

Source: 1603001-03

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	2.79		0.18		0.78	1.29	20
2-Chloro-1,3-butadiene	0.77		0.05		0.78	1.29	20



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Duplicate (B6C0808-DUP3)**

Source: 1603001-12

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	10.4		10.0	104	70-130
4-Bromofluorobenzene	73.8		10.0	104	70-130
1,2-Dichloroethane-d4	10.6		10.0	106	70-130
1,2-Dichloroethane-d4			10.0		70-130
Toluene-d8	9.84		10.0	98.4	70-130
Toluene-d8			10.0		70-130

**Duplicate (B6C0808-DUP3)**

Source: 1603001-12

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	1.27		0.05		1.19	6.50	20
2-Chloro-1,3-butadiene	4.61		0.18		1.19	6.50	20





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Duplicate (B6C0808-DUP4)**

Source: 1603001-01

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	74.3		10.0	104	70-130
<i>4-Bromofluorobenzene</i>	10.4		10.0	104	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>1,2-Dichloroethane-d4</i>	10.4		10.0	104	70-130
<i>Toluene-d8</i>			10.0		70-130
<i>Toluene-d8</i>	9.84		10.0	98.4	70-130

**Duplicate (B6C0808-DUP4)**

Source: 1603001-01

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	3.01		0.18		0.81	2.44	20
2-Chloro-1,3-butadiene	0.83		0.05		0.81	2.44	20



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**Duplicate (B6C0808-DUP5)**

Source: 1603001-06

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	73.4		10.0	103	70-130
4-Bromofluorobenzene	10.3		10.0	103	70-130
1,2-Dichloroethane-d4			10.0		70-130
1,2-Dichloroethane-d4	10.4		10.0	104	70-130
Toluene-d8			10.0		70-130
Toluene-d8	9.82		10.0	98.2	70-130

**Duplicate (B6C0808-DUP5)**

Source: 1603001-06

Prepared: 3/8/2016 Analyzed: 3/9/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	0.23		0.05		0.22	4.44	20
2-Chloro-1,3-butadiene	0.84		0.18		0.22	4.44	20



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C0808

Sample Type: air

**MRL Check (B6C0808-MRL1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	73.5		10.0	103	70-130
<i>4-Bromofluorobenzene</i>	10.3		10.0	103	70-130
<i>1,2-Dichloroethane-d4</i>	9.71		10.0	97.1	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.84		10.0	98.4	70-130
<i>Toluene-d8</i>			10.0		70-130

**MRL Check (B6C0808-MRL1)**

Prepared: 3/8/2016 Analyzed: 3/8/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Chloro-1,3-butadiene	0.15			0.0520		76.9	60-140		
2-Chloro-1,3-butadiene	0.04			0.0520		76.9	60-140		



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**SURROGATE SUMMARY REPORT**

**Air TO-15(SIM/Scan) dual units**

air

LAB NUMBER	4-BFB	1,2-DCE-d4	TOL-d8
1603001-01	104	100	98.2
1603001-02	104	99.6	98.3
1603001-03	104	101	98.6
1603001-04	104	100	98.3
1603001-05	105	101	98.6
1603001-06	104	102	98.3
1603001-07	104	98.9	98.1
1603001-08	104	102	98.0
1603001-09	104	102	98.3
1603001-10	103	97.7	98.1
1603001-11	104	101	98.1
1603001-12	104	99.7	98.3
1603001-13	104	101	98.1
B6C0808-BLK1	103	98.3	98.2
B6C0808-BS1	103	96.3	98.0
B6C0808-DUP1	103	99.8	98.1
B6C0808-DUP2	104	98.7	98.4
B6C0808-DUP3	104	106	98.4
B6C0808-DUP4	104	104	98.4
B6C0808-DUP5	103	104	98.2
B6C0808-MRL1	103	97.1	98.4

QC LIMITS

4-BFB	=	4-Bromofluorobenzene	70 - 130
1,2-DCE-d4	=	1,2-Dichloroethane-d4	70 - 130
TOL-d8	=	Toluene-d8	70 - 130





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

### Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl
RL	Reporting Limit
RT	Retention Time
RPD	Relative Percent Difference
TCLP	Toxicity Characteristic Leaching Procedure



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248


TCMX Tetrachloro-meta-xylene  
U Undetected  
VOA Volatile Organic Analysis

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-2-16</u>	Canister Number: <u>0131</u>
Collected By: <u>R. CRIGHTON</u>	Sample Location: <u>238 CHAD BARR</u>
Print Name:	(GPS) Latitude: <u>30° 9' 32" N</u>
Signature: 	(GPS) Longitude: <u>90° 31' 25" W</u>
Phone No.: <u>225-565-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input type="checkbox"/>
PC <input type="checkbox"/>	Mild <input type="checkbox"/>	
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	Yes <input type="checkbox"/>
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present:

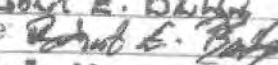

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>8:29 am</u>	End Time: <u>8:29 am 3-3-16</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<u>24 hr collection</u>		


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**


Relinquished By:		Received By:	
Name: <u>Robert E. Bely</u>	Name: <u>J. Cross</u>		
Signature: 	Signature: 		
Date: <u>3.3.16</u> Time:	Date: <u>3/4/16</u> Time: <u>10:00</u>		
Name:	Name:		
Signature:	Signature:		
Date: Time:	Date: Time:		
Name:	Name:		
Signature:	Signature:		
Date: Time:	Date: Time:		
Name:	Name:		
Signature:	Signature:		
Date: Time:	Date: Time:		

Form Rev. 1  
 INITIAL VAC -30.6 "Hg  
 FINAL VAC -6.8 "Hg

Revised 2/14/2008

  
3/4/16 10:00

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-2-16</u>	Canister Number: <u>0156</u>
Collected By: <u>RANDY CREIGHTON</u>	Sample Location: <u>LEVEE</u>
Print Name:	(GPS) Latitude: <u>30° 3' 19" N</u>
Signature: 	(GPS) Longitude: <u>90° 30' 57" W</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input type="checkbox"/>  Yes <input type="checkbox"/>
PC <input type="checkbox"/>	Mild <input type="checkbox"/>	
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present:

---

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>8:49 am</u>	End Time: <u>4</u>	Total Time (min):
----------------------------	--------------------	-------------------

**NOTE:** Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
24HR

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Robert E. Bailey</u>	Name: <u>J. Cross</u>	Signature: <u>Robert E. Bailey</u>	Signature: <u>J. Cross</u>
Date: <u>3-3-16</u>	Date: <u>3/4/16</u>	Time: <u></u>	Time: <u>10:00</u>
Name:	Name:	Signature:	Signature:
Signature:	Signature:	Date:	Date:
Date:	Date:	Time:	Time:
Name:	Name:	Signature:	Signature:
Signature:	Signature:	Date:	Date:
Date:	Date:	Time:	Time:
Name:	Name:	Signature:	Signature:
Signature:	Signature:	Date:	Date:
Date:	Date:	Time:	Time:



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <b>3-1-16</b>	Canister Number: <b>0188</b>
Collected By: <b>EVAN JANKINS</b>	Sample Location: <b>Ochsner Hosp.</b>
Print Name:	(GPS) Latitude: <b>30° 4' 24" N</b>
Signature:	(GPS) Longitude: <b>90° 30' 55" W</b>
Phone No.:	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No (✓)
PC ( )	Mild ( )	
Cloudy (✓)	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**


Start Time: <b>08:00</b>	End Time: <b>4:00pm</b>	Total Time (min):
<b>NOTE:</b> Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<b>PH</b>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <b>RANDY CREIGHTON</b>	Name:	Name: <b>[Signature]</b>	Name:
Signature: <b>[Signature]</b>	Signature:	Signature: <b>[Signature]</b>	Signature:
Date: <b>3-1-16</b> Time: <b>4:05pm</b>	Date:	Date: <b>3/4/16</b> Time: <b>10:00</b>	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-1-16</u>	Canister Number: <u>0189 8HR</u>
Collected By: <u>RANDY CRAWFORD</u>	Sample Location: <u>HERRING</u>
Print Name: <u>RANDY CRAWFORD</u>	(GPS) Latitude: <u>30°4'18" N</u>
Signature: 	(GPS) Longitude: <u>90°31'24" W</u>
Phone No.: <u>225-505-5222</u>	

7  
 CHECK  
 -20  
 2:28  
 -12  
 4:55  
 ✓

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No ( )
PC (✓)	Mild ( )	Yes ( )
Cloudy ( )	Moderate ( )	
Rainy ( )	Strong ( )	

Describe odors present:


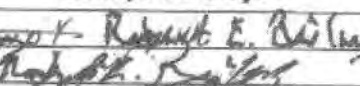
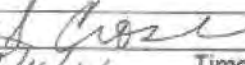
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**


Start Time: <u>0857</u>	End Time: <u>20:05</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<u>24HR 8HR</u>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Randy Crawford</u>	Name: <u>Robert E. Billing</u>	Name:	Name:
Signature: 	Signature: 	Signature: 	Signature:
Date: <u>3-3-16</u>	Date: <u>3/4/16</u>	Date: <u>3/4/16</u>	Date: <u>10:00</u>
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 3-1-16	Canister Number: 0191 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">SR</span>
Collected By: RANDY CRIGHTON	Sample Location: 238 CHAD BAKER ST
Print Name: RANDY CRIGHTON	(GPS) Latitude: 30° 3' 22" N
Signature: 	(GPS) Longitude: 90° 31' 25" W
Phone No.: 225-505-5222	

→ 12" Hg  
2:18

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No ( )
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:


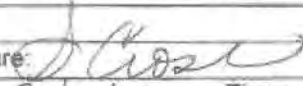
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**


Start Time: 0927	End Time: 4:38 PM	Total Time (min):
<b>NOTE:</b> Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<del>24hr community collected</del> SR		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: Robert E. Bailey		Name:	
Signature: 		Signature: 	
Date: 3.3.16	Time:	Date: 3/4/16	Time: 10:00
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-2-16</u>	Canister Number: <u>0275</u>
Collected By: <u>R. PRIGENTON</u>	Sample Location: <u>5<sup>th</sup> WARDEN</u>
Print Name:	(GPS) Latitude: <u>30° 3' 8"</u>
Signature: 	(GPS) Longitude: <u>90° 31' 55"</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input type="checkbox"/>
PC <input type="checkbox"/>	Mild <input type="checkbox"/>	
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	Yes <input type="checkbox"/>
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure: <u>30.5</u>

**Sampling Data (24:00)**

Start Time: <u>11:36 a.m.</u>	End Time: <u>1:20 PM</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<u>RHR</u>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*


**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Robert E. Barclay</u>	Name:	Name: <u>J. [Signature]</u>	Name:
Signature: <u>Robert E. Barclay</u>	Signature:	Signature: <u>[Signature]</u>	Signature:
Date: <u>3-3-16</u> Time:	Date: <u>3/4/16</u> Time: <u>10:00</u>	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:

Form Rev. 1 INIT VAL -30.5 Hg  
Final Val - 3.0 H7



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-1-16</u>	Canister Number: <u>0276</u>
Collected By: <u>RANDY CRIGHTON</u>	Sample Location: <u>238 Chadbourne St</u>
Print Name: <u>RANDY CRIGHTON</u>	(GPS) Latitude: <u>30° 3' 32" N</u>
Signature: 	(GPS) Longitude: <u>90° 31' 25" W</u>
Phone No.: <u>225-505-5222</u>	

OK  
 -26" Hg  
 2:18 PM

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No ( )
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:


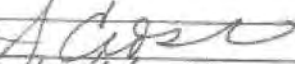
**Sampling Data (24:00)**

Start Time: <u>0827</u>	End Time: <u>8:11 AM 3-2-16</u> <sup>OK</sup>	Total Time (min):
-------------------------	---	-------------------

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
24HR COMMUNITY

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Robert E. Bailey</u>	Name:	Name: <u>A. Cross</u>	
Signature: 	Signature:	Signature: 	
Date: <u>3-1-16</u> Time:	Date:	Date: <u>3/1/16</u> Time: <u>10:00</u>	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date: Time:	Date: Time:	Date: Time:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date: Time:	Date: Time:	Date: Time:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date: Time:	Date: Time:	Date: Time:	

Form Rev. 1 INITIAL Vacuum - -29.6" Hg  
 Final VAC - 0" Hg

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <b>3-2-16</b>	Canister Number: <b>0281</b>
Collected By: <b>R. CREIGHTON</b>	Sample Location: <b>OCHSNER</b>
Print Name:	(GPS) Latitude: <b>30° 4' 24" N</b>
Signature:	(GPS) Longitude: <b>96° 30' 57" W</b>
Phone No.: <b>225-515-5222</b>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input type="checkbox"/>
PC <input type="checkbox"/>	Mild <input type="checkbox"/>	Yes <input type="checkbox"/>
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <b>11:15 AM</b>	End Time: <b>*</b>	Total Time (min):
-----------------------------	--------------------	-------------------

**NOTE:** Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
**BHR**

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

<b>Relinquished By:</b>		<b>Received By:</b>	
Name: <b>Robert E. Bailey</b>	Name:	Name: <b>J. [Signature]</b>	Name:
Signature:	Signature:	Signature:	Signature:
Date: <b>3-3-16</b> Time:	Date: <b>3/4/16</b> Time: <b>10:00</b>	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date: Time:	Date: Time:	Date: Time:	Date: Time:

\* 1:19 PM - Canister found at ambient pressure.

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 3-1-16 Canister Number: H3427  
 Collected By: RANDY CREIGHTON Sample Location: 5<sup>th</sup> WARD PLANK  
 Print Name: \_\_\_\_\_ (GPS) Latitude: 30° 3' 7" N  
 Signature: [Signature] (GPS) Longitude: 90° 21' 58" W  
 Phone No.: 225-505-5222

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_  
 Analysis Requested: \_\_\_\_\_

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None ( )	No ( )  Yes ( )
PC ( )	Mild ( )	
Cloudy ( )	Moderate ( )	
Rainy ( )	Strong ( )	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 0901 End Time: 11:30 AM 3-2-16 Total Time (min):  
**NOTE:** Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
24 HR


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Robert E. Bailew</u>	Name: _____	Signature: <u>[Signature]</u>	Signature: _____
Signature: <u>[Signature]</u>	Signature: _____	Date: <u>3/4/16</u>	Date: _____
Date: <u>3-2-16</u>	Date: _____	Time: <u>10:00</u>	Time: _____
Name: _____	Name: _____	Signature: _____	Signature: _____
Signature: _____	Signature: _____	Date: _____	Date: _____
Date: _____	Date: _____	Time: _____	Time: _____
Name: _____	Name: _____	Signature: _____	Signature: _____
Signature: _____	Signature: _____	Date: _____	Date: _____
Date: _____	Date: _____	Time: _____	Time: _____
Name: _____	Name: _____	Signature: _____	Signature: _____
Signature: _____	Signature: _____	Date: _____	Date: _____
Date: _____	Date: _____	Time: _____	Time: _____

Form Rev. 1 INITIAL - -29.6 "Hg  
 FINAL - -3.9 "Hg

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <i>3-1-16</i>	Canister Number: <i>H3428</i>
Collected By: <i>RANDY CRAIGHTON</i>	Sample Location: <i>DURHAM OF GRACE</i>
Print Name: <i>RANDY CRAIGHTON</i>	(GPS) Latitude: <i>30°3'2"N</i>
Signature: 	(GPS) Longitude: <i>90°31'49"W</i>
Phone No.: <i>225-505-5222</i>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No ( )
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

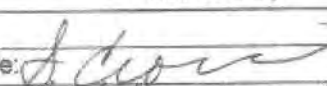
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <i>0848</i>	End Time: <i>4:21pm</i>	Total Time (min):
<b>NOTE:</b> Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<i>BHE</i>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

<b>Relinquished By:</b>		<b>Received By:</b>	
Name: <i>Robert E. Bailey</i>	Name:	Name: <i>J. Deane</i>	Name:
Signature: <i>Robert E. Bailey</i>	Signature:	Signature: 	Signature:
Date: <i>3-3-16</i>	Date:	Date: <i>3/1/16</i>	Date:
Time:	Time:	Time: <i>10:00</i>	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:

Form Rev. 1 *INITIAL VACUUM - -29.8 "Hg*  
*FIRST 0 "Hg*



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 7-2-16 Canister Number: H3440  
 Collected By: RANDY CRAIGTON Sample Location: 238 CHAD BAKER  
 Print Name: \_\_\_\_\_ (GPS) Latitude: 30°3'32"N  
 Signature: [Signature] (GPS) Longitude: 90°31'25"W  
 Phone No.: 225-505-8222

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_  
 Analysis Requested: \_\_\_\_\_

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input type="checkbox"/> Yes <input type="checkbox"/>
PC <input type="checkbox"/>	Mild <input type="checkbox"/>	
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 8:49 am End Time: 8:29 am 7-2-16 Total Time (min): \_\_\_\_\_

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
29 HR


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>Robert E. Bailey</u>	Name: _____		
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>		
Date: <u>3-3-16</u> Time: _____	Date: <u>3/4/16</u> Time: <u>10:00</u>		
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____ Time: _____	Date: _____ Time: _____		
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____ Time: _____	Date: _____ Time: _____		
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____ Time: _____	Date: _____ Time: _____		

Form Rev. 1 INITIAL VAC -30.1" Hg  
FINAL VAC -2.5" Hg

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <i>3-2-16</i>	Canister Number: <i>H3444</i>
Collected By: <i>RAUDY CORRENTON</i>	Sample Location: <i>CURLEYS OFFSHORE</i>
Print Name:	(GPS) Latitude: <i>30° 3' 2" N</i>
Signature: 	(GPS) Longitude: <i>90° 3' 49" W</i>
Phone No.: <i>225-505-5222</i>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input checked="" type="checkbox"/>	None <input checked="" type="checkbox"/>	No ( )  Yes ( )
PC ( )	Mild ( )	
Cloudy ( )	Moderate ( )	
Rainy ( )	Strong ( )	

Describe odors present:

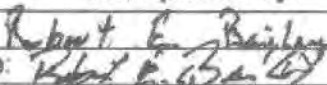
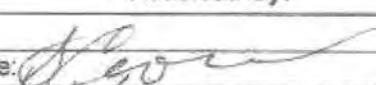
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <i>11:22 am</i>	End Time: <i>2:10 PM</i>	Total Time (min):
<b>NOTE:</b> Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<i>8 HR</i>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <i>Robert E. Bailey</i>		Name:	
Signature: 		Signature: 	
Date: <i>3-3-16</i>	Time:	Date: <i>3/4/16</i>	Time: <i>10:00</i>
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:
Name:		Name:	
Signature:		Signature:	
Date:	Time:	Date:	Time:

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection:	Canister Number: 0283
Collected By: Bob Bailey	Sample Location: Blank-Trip
Print Name: Bob Bailey	(GPS) Latitude:
Signature: Robert E. Bailey	(GPS) Longitude:
Phone No.: 225-219-3991	

Witness:	Witness:
----------	----------

Analysis Requested:
---------------------

Weather Conditions:	Color Intensity:	Photograph:
Clear ( )	None ( )	No (✓)
PC ( )	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
-------------------------	----------------------

Relative humidity:	Barometric pressure:
--------------------	----------------------

**Sampling Data (24:00)**

Start Time:	End Time:	Total Time (min):
-------------	-----------	-------------------

**NOTE:** Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: Robert E. Bailey	Name:	Name:	Name:
Signature: Robert E. Bailey	Signature:	Signature:	Signature:
Date: 3-3-16	Date: 3/4/16	Time: 10:00	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----- DuPont / Denka - Laplace
Sample Collection Date(s)-- 03/08/16 - 03/10/16
Contact----- Fran Verhalen (6MM-AM)
Report Date----- 04/06/16
Project #----- 16CAA052
Work Order(s)----- 1603005

Analyses included in this report:

Air TO-15(SIM/Scan) dual units ug/m3::Air TO-15(SIM/Scan) dual units

Report Narrative

Sample 1603005-12 had an initial pressure just below -12 inches of mercury, thus there was insufficient sample to analyze normally and a slight dilution factor was applied.

No sample had a positive hit for the target compound above the reporting level.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

The reporting limit (sometimes referred to as a quantitation limit) is defined as the lowest concentration at which an analyte can be reliably measured and reported without qualification. Reporting limits are adjusted for sample size, dilution, and matrix interference. Concentrations below the reporting limit are reported as non-detects.

Report Approvals:

RICHARD MCMILLIN

Digitally signed by RICHARD MCMILLIN
DN: c=US, o=U.S. Government, ou=USEPA, ou=Staff,
cn=RICHARD MCMILLIN, dnQualifier=000008516
Date: 2016.04.06 08:39:05 -05'00'

Richard McMillin
Region 6 Laboratory Technical Manager

David W.
McQuiddy

Digitally signed by David W. McQuiddy
DN: cn=David W. McQuiddy, o=Houston
Laboratory, ou=USEPA,
email=mcquiddy.david@epa.gov, c=US
Date: 2016.04.06 08:44:19 -05'00'

David W. McQuiddy
Region 6 Laboratory Branch Chief





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road  
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: DuPont / Denka - Laplace

Project Number: 16CAA052

Data Management Coordinator: Christy Warren

\_\_\_\_/\_\_\_\_/\_\_\_\_

\_\_\_\_\_  
Data Management Coordinator Signature

\_\_\_\_\_  
Date

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren  
Data Management Coordinator  
Region 6 Laboratory  
6MD-HS

\_\_\_\_\_  
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Please provide a reason for holding:



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**ANALYTICAL REPORT FOR SAMPLES**

<b>Station ID</b>	<b>Laboratory ID</b>	<b>Sample Type</b>	<b>Date Collected</b>	<b>Date Received</b>
238 Chad Baker (0175)	1603005-01	air	3/9/16 8:57	03/11/16 09:30
238 Chad Baker (0182)	1603005-02	air	3/9/16 8:57	03/11/16 09:30
238 Chad Baker (0184)	1603005-03	air	3/10/16 9:04	03/11/16 09:30
5th Ward Elem (0185)	1603005-04	air	3/9/16 16:58	03/11/16 09:30
Levee (0190)	1603005-05	air	3/10/16 8:35	03/11/16 09:30
Our LOG (0291)	1603005-06	air	3/8/16 16:44	03/11/16 09:30
Levee (1161)	1603005-07	air	3/9/16 8:33	03/11/16 09:30
238 Chad Baker (H3422)	1603005-08	air	3/9/16 17:05	03/11/16 09:30
Blank (H3423)	1603005-09	air	3/10/16 0:00	03/11/16 09:30
5th Ward Elem (H3424)	1603005-10	air	3/8/16 16:48	03/11/16 09:30
Ochsner (H3429)	1603005-11	air	3/9/16 15:44	03/11/16 09:30
Our LOG(H3436)	1603005-12	air	3/10/16 9:13	03/11/16 09:30
Ochsner (H3439)	1603005-13	air	3/9/16 15:46	03/11/16 09:30



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**QC SUMMARY REPORT**

Air TO-15(SIM/Scan) dual units	
B6C1501	
air	
Samples: 5	ReExts: 0
LAB NUMBER	SOURCE
B6C1501-BLK1	
B6C1501-BS1	
B6C1501-BSD1	
B6C1501-DUP1	1603005-08
B6C1501-DUP2	1603005-10
B6C1501-DUP3	1603005-05
B6C1501-MRL1	

ug/m3::Air TO-15(SIM/Scan) dual units	
B6C1501	
air	
Samples: 5	ReExts: 0
LAB NUMBER	SOURCE
B6C1501-BLK1	
B6C1501-BS1	
B6C1501-BSD1	
B6C1501-DUP1	1603005-08
B6C1501-DUP2	1603005-10
B6C1501-DUP3	1603005-05
B6C1501-MRL1	



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-01

Station ID: 238 Chad Baker (0175)

Batch: B6C1501

Collected Start: 3/8/2016 8:57:00AM

Initial Pressure: 12.17 psia

Sample Type: air

Collected End: 3/9/2016 8:57:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.6		106	70-130	03/15/16	03/15/16
1,2-Dichloroethane-d4	11.3		113	70-130	"	"
Toluene-d8	9.82		98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-01

Station ID: 238 Chad Baker (0175)

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 12.17 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	75.5		106	70-130	03/15/16	03/15/16
1,2-Dichloroethane-d4			113	70-130	"	"
Toluene-d8			98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	Result µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-----------------------------	-----------------------	-------------------------	--------------------------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
----------------------	-----------------	-----------------------	-----------------------------	----------	----------	----------

2-Chloro-1,3-butadiene (126-99-8)	ND	0	0.18	0.66	1.0	03/15/16	03/15/16
-----------------------------------	----	---	------	------	-----	----------	----------

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-02

Station ID: 238 Chad Baker (0182)

Batch: B6C1501

Collected Start: 3/8/2016 8:57:00AM

Initial Pressure: 12.40 psia

Sample Type: air

Collected End: 3/9/2016 8:57:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.6		106	70-130	03/15/16	03/16/16
1,2-Dichloroethane-d4	10.7		107	70-130	"	"
Toluene-d8	9.79		97.9	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-02**

**Station ID: 238 Chad Baker (0182)**

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 12.40 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	75.4		106	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>			107	70-130	"	"
<i>Toluene-d8</i>			97.9	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/16/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-03

Station ID: 238 Chad Baker (0184)

Batch: B6C1501

Collected Start: 3/9/2016 9:02:00AM

Initial Pressure: 12.56 psia

Sample Type: air

Collected End: 3/10/2016 9:04:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.6		106	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>	11.0		110	70-130	"	"
<i>Toluene-d8</i>	9.84		98.4	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m³		ppbv	µg/m³			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-03

Station ID: 238 Chad Baker (0184)

Batch: B6C1501

Date Collected: 03/10/16

Initial Pressure: 12.56 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	75.6		106	70-130	03/15/16	03/16/16
1,2-Dichloroethane-d4			110	70-130	"	"
Toluene-d8			98.4	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/16/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-04**

**Station ID: 5th Ward Elem (0185)**

Batch: B6C1501

Collected Start: 3/9/2016 8:49:00AM

Initial Pressure: 12.83 psia

Sample Type: air

Collected End: 3/9/2016 4:58:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>	11.1		111	70-130	"	"
<i>Toluene-d8</i>	9.82		98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-04**

**Station ID: 5th Ward Elem (0185)**

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 12.83 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.9		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>			111	70-130	"	"
<i>Toluene-d8</i>			98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/16/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-05**

**Station ID: Levee (0190)**

Batch: B6C1501

Collected Start: 3/9/2016 8:35:00AM

Initial Pressure: 13.90 psia

Sample Type: air

Collected End: 3/10/2016 8:35:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result		Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
	ppbv						
<i>4-Bromofluorobenzene</i>	10.7			107	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>	11.2			112	70-130	"	"
<i>Toluene-d8</i>	9.94			99.4	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m³		ppbv	µg/m³			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-05**

**Station ID: Levee (0190)**

Batch: B6C1501

Date Collected: 03/10/16

Initial Pressure: 13.90 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	76		107	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>			112	70-130	"	"
<i>Toluene-d8</i>			99.4	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3    μg/m <sup>3</sup>		Analyte Qualifiers	Reporting Limit ppbv    μg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	--------------------------------------	--	-----------------------	--	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3		Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND	0.39		0.18    0.66	1.0	03/15/16	03/15/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-06

Station ID: Our LOG (0291)

Batch: B6C1501

Collected Start: 3/8/2016 8:40:00AM

Initial Pressure: 13.76 psia

Sample Type: air

Collected End: 3/8/2016 4:44:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	10.6		106	70-130	03/15/16	03/15/16
1,2-Dichloroethane-d4	11.2		112	70-130	"	"
Toluene-d8	9.87		98.7	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-06**

**Station ID: Our LOG (0291)**

Batch: B6C1501

Date Collected: 03/08/16

Initial Pressure: 13.76 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	75.5		106	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>			112	70-130	"	"
<i>Toluene-d8</i>			98.7	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/15/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-07

Station ID: Levee (1161)

Batch: B6C1501

Collected Start: 3/8/2016 8:30:00AM

Initial Pressure: 13.66 psia

Sample Type: air

Collected End: 3/9/2016 8:33:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery		Prepared	Analyzed
				Limits			
4-Bromofluorobenzene	10.5		105	70-130		03/15/16	03/16/16
1,2-Dichloroethane-d4	10.8		108	70-130		"	"
Toluene-d8	9.81		98.1	70-130		"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-07**

**Station ID: Levee (1161)**

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 13.66 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m <sup>3</sup>	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.6		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>			108	70-130	"	"
<i>Toluene-d8</i>			98.1	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m <sup>3</sup> μg/m <sup>3</sup>		Analyte Qualifiers	Reporting Limit ppbv    μg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	---	--	-----------------------	--	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m <sup>3</sup>		Analyte Qualifiers	Reporting Limit ug/m <sup>3</sup>	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND	0		0.18    0.66	1.0	03/15/16	03/16/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-08**

**Station ID: 238 Chad Baker (H3422)**

Batch: B6C1501

Collected Start: 3/9/2016 9:02:00AM

Initial Pressure: 14.77 psia

Sample Type: air

Collected End: 3/9/2016 5:05:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>	11.1		111	70-130	"	"
<i>Toluene-d8</i>	9.95		99.5	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-08**

**Station ID: 238 Chad Baker (H3422)**

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 14.77 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.9		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>			111	70-130	"	"
<i>Toluene-d8</i>			99.5	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	Result µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-----------------------------	-----------------------	-------------------------	--------------------------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Reporting Limit	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18	0.66	1.0	03/15/16	03/16/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-09**

**Station ID: Blank (H3423)**

Batch: B6C1501

Collected Start: 3/8/2016 12:00:00AM

Initial Pressure: 0.02 psia

Sample Type: air

Collected End: 3/10/2016 12:00:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>	11.1		111	70-130	"	"
<i>Toluene-d8</i>	9.86		98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-09**

**Station ID: Blank (H3423)**

Batch: B6C1501

Date Collected: 03/10/16

Initial Pressure: 0.02 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	75		105	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>			111	70-130	"	"
<i>Toluene-d8</i>			98.6	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/15/16 FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-10**

**Station ID: 5th Ward Elem (H3424)**

Batch: B6C1501

Collected Start: 3/8/2016 8:48:00AM

Initial Pressure: 13.23 psia

Sample Type: air

Collected End: 3/8/2016 4:48:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>	11.3		113	70-130	"	"
<i>Toluene-d8</i>	9.83		98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-10**

**Station ID: 5th Ward Elem (H3424)**

Batch: B6C1501

Date Collected: 03/08/16

Initial Pressure: 13.23 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	75.1		105	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>			113	70-130	"	"
<i>Toluene-d8</i>			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0.13		0.18 0.66	1.0	03/15/16	03/15/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-11

Station ID: Ochsner (H3429)

Batch: B6C1501

Collected Start: 3/9/2016 7:44:00AM

Initial Pressure: 12.70 psia

Sample Type: air

Collected End: 3/9/2016 3:44:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	10.5		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>	11.0		110	70-130	"	"
<i>Toluene-d8</i>	9.83		98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/16/16

FEO





**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-11**

**Station ID: Ochsner (H3429)**

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 12.70 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	74.6		105	70-130	03/15/16	03/16/16
<i>1,2-Dichloroethane-d4</i>			110	70-130	"	"
<i>Toluene-d8</i>			98.3	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0.13		0.18 0.66	1.0	03/15/16	03/16/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-12**

**Station ID: Our LOG(H3436)**

Batch: B6C1501

Collected Start: 3/9/2016 8:44:00AM

Initial Pressure: 9.00 psia

Sample Type: air

Collected End: 3/10/2016 9:13:00AM

Sample Qualifiers:

**Surrogates**

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	12.2		122	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>	12.9		129	70-130	"	"
<i>Toluene-d8</i>	11.5		115	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.06	0.21	1.2	03/15/16	03/15/16

FEO



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

**Lab ID: 1603005-12**

**Station ID: Our LOG(H3436)**

Batch: B6C1501

Date Collected: 03/10/16

Initial Pressure: 9.00 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>4-Bromofluorobenzene</i>	87		122	70-130	03/15/16	03/15/16
<i>1,2-Dichloroethane-d4</i>			129	70-130	"	"
<i>Toluene-d8</i>			115	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.21 0.77	1.2	03/15/16	03/15/16 FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-13

Station ID: Ochsner (H3439)

Batch: B6C1501

Collected Start: 3/9/2016 8:15:00AM

Initial Pressure: 13.89 psia

Sample Type: air

Collected End: 3/9/2016 3:46:00PM

Sample Qualifiers:

**Surrogates**

Analyte	Result		Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>					
4-Bromofluorobenzene	10.5			105	70-130	03/15/16	03/15/16
1,2-Dichloroethane-d4	11.2			112	70-130	"	"
Toluene-d8	9.82			98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result		Analyte Qualifiers	Reporting Limit		Dilution	Prepared	Analyzed
	ppbv	µg/m <sup>3</sup>		ppbv	µg/m <sup>3</sup>			
2-Chloro-1,3-butadiene (126-99-8)	U	U		0.05	0.18	1.0	03/15/16	03/15/16

FEO



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS**

Lab ID: 1603005-13

Station ID: Ochsner (H3439)

Batch: B6C1501

Date Collected: 03/09/16

Initial Pressure: 13.89 psia

Sample Type: air

Sample Qualifiers:

**Surrogates**

Analyte	Result ug/m3	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	74.9		105	70-130	03/15/16	03/15/16
1,2-Dichloroethane-d4			112	70-130	"	"
Toluene-d8			98.2	70-130	"	"

**Targets**

Analyte (CAS Number)	Result ug/m3	µg/m <sup>3</sup>	Analyte Qualifiers	Reporting Limit ppbv	µg/m <sup>3</sup>	Dilution	Prepared	Analyzed
----------------------	-----------------	-------------------	-----------------------	-------------------------	-------------------	----------	----------	----------

**Targets**

Analyte (CAS Number)	Result ug/m3	Analyte Qualifiers	Reporting Limit ug/m3	Dilution	Prepared	Analyzed
2-Chloro-1,3-butadiene (126-99-8)	ND 0		0.18 0.66	1.0	03/15/16	03/15/16 FEO





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**Blank (B6C1501-BLK1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.5		10.0	105	70-130
<i>4-Bromofluorobenzene</i>	74.6		10.0	105	70-130
<i>1,2-Dichloroethane-d4</i>	11.0		10.0	110	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.87		10.0	98.7	70-130
<i>Toluene-d8</i>			10.0		70-130

**Blank (B6C1501-BLK1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit
<b>2-Chloro-1,3-butadiene</b>	ND		0.18
2-Chloro-1,3-butadiene	U		0.05



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**LCS (B6C1501-BS1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.5		10.0	105	70-130
<i>4-Bromofluorobenzene</i>	74.6		10.0	105	70-130
<i>1,2-Dichloroethane-d4</i>	10.6		10.0	106	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.73		10.0	97.3	70-130
<i>Toluene-d8</i>			10.0		70-130

**LCS (B6C1501-BS1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
2-Chloro-1,3-butadiene	11.8			10.3	115	70-130
2-Chloro-1,3-butadiene	43			10.3	115	70-130



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**LCS Dup (B6C1501-BSD1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.4		10.0	104	70-130
<i>4-Bromofluorobenzene</i>	74.2		10.0	104	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>1,2-Dichloroethane-d4</i>	10.7		10.0	107	70-130
<i>Toluene-d8</i>	9.70		10.0	97.0	70-130
<i>Toluene-d8</i>			10.0		70-130

**LCS Dup (B6C1501-BSD1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2-Chloro-1,3-butadiene	11.9			10.3	116	70-130	0.59	25
2-Chloro-1,3-butadiene	43.2			10.3	116	70-130	0.59	25



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**Duplicate (B6C1501-DUP1)**

Source: 1603005-08

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	75.1		10.0	105	70-130
<i>4-Bromofluorobenzene</i>	10.5		10.0	105	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>1,2-Dichloroethane-d4</i>	11.0		10.0	110	70-130
<i>Toluene-d8</i>	9.90		10.0	99,0	70-130
<i>Toluene-d8</i>			10.0		70-130

**Duplicate (B6C1501-DUP1)**

Source: 1603005-08

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	ND		0.18				20
2-Chloro-1,3-butadiene	U		0.05				20



**Environmental Protection Agency**  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**Duplicate (B6C1501-DUP2)**

Source: 1603005-10

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.5		10.0	105	70-130
<i>4-Bromofluorobenzene</i>	74.7		10.0	105	70-130
<i>1,2-Dichloroethane-d4</i>	11.0		10.0	110	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>			10.0		70-130
<i>Toluene-d8</i>	9.80		10.0	98.0	70-130

**Duplicate (B6C1501-DUP2)**

Source: 1603005-10

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	U		0.05				20
2-Chloro-1,3-butadiene	ND		0.18				20





Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**Duplicate (B6C1501-DUP3)**

Source: 1603005-05

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Surrogates**

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	10.5		10.0	105	70-130
<i>4-Bromofluorobenzene</i>	75.1		10.0	105	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>1,2-Dichloroethane-d4</i>	11.2		10.0	112	70-130
<i>Toluene-d8</i>			10.0		70-130
<i>Toluene-d8</i>	9.92		10.0	99.2	70-130

**Duplicate (B6C1501-DUP3)**

Source: 1603005-05

Prepared: 3/15/2016 Analyzed: 3/16/2016

**Targets**

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD RPD	RPD Limit
2-Chloro-1,3-butadiene	U		0.05				20
2-Chloro-1,3-butadiene	ND		0.18				20



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
 Phone:(281)983-2100 Fax:(281)983-2248

**Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control**

Batch: B6C1501

Sample Type: air

**MRL Check (B6C1501-MRL1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Surrogates**

ANALYTE	Result ug/m3	Analyte Qualifier	Spike Level	%REC	%REC Limits
<i>4-Bromofluorobenzene</i>	74.2		10.0	104	70-130
<i>4-Bromofluorobenzene</i>	10.4		10.0	104	70-130
<i>1,2-Dichloroethane-d4</i>	10.9		10.0	109	70-130
<i>1,2-Dichloroethane-d4</i>			10.0		70-130
<i>Toluene-d8</i>	9.78		10.0	97.8	70-130
<i>Toluene-d8</i>			10.0		70-130

**MRL Check (B6C1501-MRL1)**

Prepared: 3/15/2016 Analyzed: 3/15/2016

**Targets**

ANALYTE	Result ug/m3	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
2-Chloro-1,3-butadiene	0.18			0.0520		96.2	60-140		
2-Chloro-1,3-butadiene	0.05			0.0520		96.2	60-140		



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

**SURROGATE SUMMARY REPORT**

**Air TO-15(SIM/Scan) dual units**

air

LAB NUMBER	4-BFB	1,2-DCE-d4	TOL-d8
1603005-01	106	113	98.2
1603005-02	106	107	97.9
1603005-03	106	110	98.4
1603005-04	105	111	98.2
1603005-05	107	112	99.4
1603005-06	106	112	98.7
1603005-07	105	108	98.1
1603005-08	105	111	99.5
1603005-09	105	111	98.6
1603005-10	105	113	98.3
1603005-11	105	110	98.3
1603005-12	122	129	115
1603005-13	105	112	98.2
B6C1501-BLK1	105	110	98.7
B6C1501-BS1	105	106	97.3
B6C1501-BSD1	104	107	97.0
B6C1501-DUP1	105	110	99.0
B6C1501-DUP2	105	110	98.0
B6C1501-DUP3	105	112	99.2
B6C1501-MRL1	104	109	97.8

QC LIMITS

4-BFB = 4-Bromofluorobenzene 70 - 130  
1,2-DCE-d4 = 1,2-Dichloroethane-d4 70 - 130  
TOL-d8 = Toluene-d8 70 - 130



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

## Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl
RL	Reporting Limit
RT	Retention Time
RPD	Relative Percent Difference
TCLP	Toxicity Characteristic Leaching Procedure



Environmental Protection Agency  
**Region 6 Laboratory**

10625 Fallstone Road, Houston, TX 77099  
Phone:(281)983-2100 Fax:(281)983-2248

TCMX Tetrachloro-meta-xylene

U Undetected

VOA Volatile Organic Analysis


Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-8-16</u>	Canister Number: <u>0175</u>
Collected By: <u>RANDY CRAIGHTON</u>	Sample Location: <u>E 238 CHAD BAKER ST</u>
Print Name:	(GPS) Latitude: <u>30° 3' 25"</u>
Signature: 	(GPS) Longitude: <u>90° 32' 11"</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No (✓)
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:


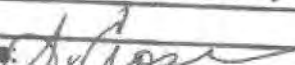
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>8:57 am</u>	End Time: <u>8:57 am 3-9-16</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<u>24</u>		


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CRAIGHTON</u>	Name:	Name: <u>J. Lopez</u>	
Signature: 	Signature:	Signature: 	
Date: <u>3-9-16</u> Time: <u>9:28 am</u>	Date:	Date: <u>3/11/16</u> Time: <u>9:30</u>	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	

Form Rev. 1 *Instr. vhc - 30.3 "H5*  
*Final vhc - 5.7*

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-8-16</u>	Canister Number: <u>0182</u>
Collected By: <u>RANDY CROUGHTON</u>	Sample Location: <u>LEVEE 73R CHAD BAKER</u>
Print Name:	(GPS) Latitude: <u>30° 3' 25"</u>
Signature: 	(GPS) Longitude: <u>90° 32' 1"</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No (✓)
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:


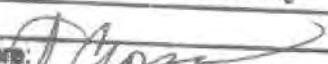
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>8:57 am</u>	End Time: <u>2:57 am 03-09-16</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)		
<u>24 HR COLLECTED</u>		


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CROUGHTON</u>	Name:	Name: <u>Prose</u>	Name:
Signature: 	Signature:	Signature: 	Signature:
Date: <u>3-9-16</u> Time: <u>9:24 am</u>	Date: <u>3/11/16</u> Time: <u>9:30</u>	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Time:	Date:	Time:

Form Rev. UNIT - 30.4 "H.9"  
FINAL - 5.1

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 03/09/16  
 Collected By: RANDY CRIGHTON  
 Print Name:  
 Signature:   
 Phone No.: 225-605-5222

Canister Number: 0184  
 Sample Location: <sup>238</sup> CHAD BAKER ST  
 (GPS) Latitude: 30° 3' 25" N  
 (GPS) Longitude: 90° 32' 1" W

5:03 PM  
 -20

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_  
 Analysis Requested: \_\_\_\_\_

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None ( )	No ( )
PC ( )	Mild ( )	
Cloudy (✓)	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 9:02 am End Time: 9:04 am 3-10-16 Total Time (min): \_\_\_\_\_  
 NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
29 hr


\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CRIGHTON</u>	Name:	Name: <u>J. Brown</u>	Name:
Signature: 	Signature:	Signature: 	Signature:
Date: <u>3-10-16</u> Time: <u>9:28 am</u>	Date:	Date: <u>3/10/16</u> Time: <u>9:30</u>	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:

Form Rev. 1 INITIAL VAC - -30.1 "Hg  
 FINAL VAC - -4.9

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>030916</u>	Canister Number: <u>0185</u>
Collected By: <u>RANDY CREIGHTON</u>	Sample Location: <u>5<sup>th</sup> WARD ELEM SCHOOL</u>
Print Name:	(GPS) Latitude: <u>30° 3' 4" N</u>
Signature: 	(GPS) Longitude: <u>90° 31' 55" W</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None ( <input checked="" type="checkbox"/> )	No ( <input checked="" type="checkbox"/> )
PC ( )	Mild ( )	
Cloudy ( <input checked="" type="checkbox"/> )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:


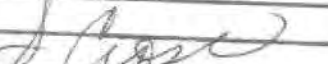
Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>8:49 AM</u>	End Time: <u>4:58 PM</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Dräger Tubes, etc.)		
<u>PH2</u>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CREIGHTON</u>	Name:	Name: <u>J. Case</u>	
Signature: 	Signature:	Signature: 	
Date: <u>3-9-16</u> Time: <u>5:29 PM</u>	Date:	Date: <u>3/11/16</u> Time: <u>9:30</u>	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	

Form Rev. 1 Initial VAC - 30.2 "Hg  
 FINAL VAC - 4.3



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 030916 Canister Number: 0190  
 Collected By: RANDY CRIGHTON Sample Location: LEVEE  
 Print Name: \_\_\_\_\_ (GPS) Latitude: 30° 3' 24" N  
 Signature: \_\_\_\_\_ (GPS) Longitude: 90° 30' 49" W  
 Phone No.: 225-505-5222

4:44 pm  
 OK  
 -28-20

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_  
 Analysis Requested: \_\_\_\_\_

Weather Conditions:		Odor Intensity:	Photograph:
Clear ( )		None (✓)	No (✓)
PC ( )		Mild ( )	
Cloudy (✓)		Moderate ( )	Yes ( )
Rainy ( )		Strong ( )	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 8:35 am End Time: 8:35 am 2:10 pm Total Time (min): \_\_\_\_\_  
 NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
24

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Released By:		Received By:	
Name: <u>RANDY CRIGHTON</u>	Name: _____		
Signature: _____	Signature: _____		
Date: <u>3-10-16</u>	Date: <u>3/11/16</u>	Time: <u>9:30</u>	Time: _____
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____	Date: _____	Time: _____	Time: _____
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____	Date: _____	Time: _____	Time: _____
Name: _____	Name: _____		
Signature: _____	Signature: _____		
Date: _____	Date: _____	Time: _____	Time: _____

Form Rev. 1 INIRAC VAC - 30.1 "FS  
FINAC VAC - 1.5



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 3-8-16 Canister Number: 0291  
 Collected By: RANDY CRIGHTON Sample Location: OUR LADY OF GRACE  
 Print Name: \_\_\_\_\_ (GPS) Latitude: 30° 3' 4" N  
 Signature: \_\_\_\_\_ (GPS) Longitude: 90° 31' 48" W  
 Phone No.: 225-505-5222

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_

Analysis Requested: \_\_\_\_\_

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None ( )	No ( )
PC ( )	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 8:40 am End Time: 5:44 4:44 pm Total Time (min): \_\_\_\_\_

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
0

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CRIGHTON</u>		Name: _____	
Signature: _____		Signature: _____	
Date: <u>3-8-16</u> Time: <u>5:21 PM</u>		Date: <u>3/11/16</u> Time: <u>9:30</u>	
Name: _____		Name: _____	
Signature: _____		Signature: _____	
Date: _____ Time: _____		Date: _____ Time: _____	
Name: _____		Name: _____	
Signature: _____		Signature: _____	
Date: _____ Time: _____		Date: _____ Time: _____	
Name: _____		Name: _____	
Signature: _____		Signature: _____	
Date: _____ Time: _____		Date: _____ Time: _____	

Form Rev. 1. Inver Vac -30.4 "H/g  
 F. N. 2 Vac -2.9

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 3-8-16 Canister Number: 1161  
 Collected By: RANDY CREIGNON Sample Location: LEVEE  
 Print Name: \_\_\_\_\_ (GPS) Latitude: 30° 3' 24" N  
 Signature: \_\_\_\_\_ (GPS) Longitude: 90° 30' 49" W  
 Phone No.: \_\_\_\_\_

Witness: \_\_\_\_\_ Witness: \_\_\_\_\_  
 Analysis Requested: \_\_\_\_\_

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No (✓)
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present: \_\_\_\_\_

Wind direction & speed: \_\_\_\_\_ Ambient temperature: \_\_\_\_\_  
 Relative humidity: \_\_\_\_\_ Barometric pressure: \_\_\_\_\_

**Sampling Data (24:00)**

Start Time: 8:30am End Time: 8:32am 3-8-16 Total Time (min):  
 NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
24

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CREIGNON</u>	Name: _____	Signature: _____	
Signature: _____	Signature: _____	Date: <u>3/11/16</u> Time: <u>9:30</u>	
Date: <u>3-8-16</u> Time: <u>9:19am</u>	Name: _____	Signature: _____	
Name: _____	Name: _____	Date: _____ Time: _____	
Signature: _____	Signature: _____	Name: _____	
Date: _____ Time: _____	Date: _____ Time: _____	Signature: _____	
Name: _____	Name: _____	Date: _____ Time: _____	
Signature: _____	Signature: _____	Name: _____	
Date: _____ Time: _____	Date: _____ Time: _____	Signature: _____	
Name: _____	Name: _____	Date: _____ Time: _____	
Signature: _____	Signature: _____	Name: _____	
Date: _____ Time: _____	Date: _____ Time: _____	Signature: _____	

Form Rev. 1 In. r. 16 - 30.4 "Hg  
 FWH - PK - 2.9

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 030916

Canister Number: H3422

Collected By: RANDY CRAIGHTON

Sample Location: <sup>238</sup> CHAD BARKER ST

Print Name:

(GPS) Latitude: 30° 3' 25"

Signature: 

(GPS) Longitude: 90° 32' 1"

Phone No.: 225-505-5222

Witness:

Witness:

Analysis Requested:

Weather Conditions:

Odor Intensity:

Photograph:

Clear

None

No

PC

Mild

Yes

Cloudy

Moderate

Rainy

Strong

Describe odors present:

Wind direction & speed:

Ambient temperature:

Relative humidity:

Barometric pressure:

**Sampling Data (24:00)**

Start Time: 9:02 AM 3-9-16

End Time: 5:05 PM 3-9-16

Total Time (min):

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)

24 - FLOW METER LEAKS

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

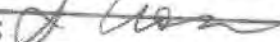
**Relinquished By:**

**Received By:**

Name: RANDY CRAIGHTON

Name: J. Coan

Signature: 

Signature: 

Date: 3-9-16 Time: 5:25 PM

Date: 3/11/16 Time: 9:30

Name:

Name:

Signature:

Signature:

Date: Time:

Date: Time:

Name:

Name:

Signature:

Signature:

Date: Time:

Date: Time:

Name:

Name:

Signature:

Signature:

Date: Time:

Date: Time:

Form Rev. 1 INITIAL VAC - 30.1 "Hg

FINAL VAC 0

Revised 2/14/2008

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: *03/10/16*

Canister Number: *BLANK H3423*

Collected By: *RANDY CRAIGTON*

Sample Location:

Print Name:

(GPS) Latitude: *30°4'21"N*

Signature: *[Signature]*

(GPS) Longitude: *90°30'53"W*

Phone No.: *225-505-5222*

Witness:

Witness:

Analysis Requested:

Weather Conditions:

Odor Intensity:

Photograph:

Clear ( )

None (✓)

No ( )

PC ( )

Mild ( )

Cloudy (✓)

Moderate ( )

Yes ( )

Rainy ( )

Strong ( )

Describe odors present:

Wind direction & speed:

Ambient temperature:

Relative humidity:

Barometric pressure:

**Sampling Data (24:00)**

Start Time:

End Time:

Total Time (min):

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)

*BLANK CANISTER*

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:

Received By:

Name: *RANDY CRAIGTON*

Name: *[Signature]*

Signature: *[Signature]*

Signature: *[Signature]*

Date: *3-10-16* Time: *9:34am*

Date: *3/11/16* Time: *9:30*

Name:

Name:

Signature:

Signature:

Date: Time:

Date: Time:

Name: Signature:

Name: Signature:

Date: Time:

Date: Time:

Name: Signature:


Name: Signature:

Date: Time:

Date: Time:



**"Grab" Sample Collection Worksheet**  
 Louisiana Department of Environmental Quality  
 Surveillance Division

Date of Collection: <u>7-8-16</u>	Canister Number: <u>H3424</u>
Collected By: <u>RANDY CROUGHTON</u>	Sample Location: <u>5<sup>th</sup> WARD ELEM SCHOOL</u>
Print Name:	(GPS) Latitude: <u>30° 3' 4" N</u>
Signature: 	(GPS) Longitude: <u>90° 31' 55" W</u>
Phone No.: <u>225-505-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear <input type="checkbox"/>	None <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>
PC <input checked="" type="checkbox"/>	Mild <input type="checkbox"/>	
Cloudy <input type="checkbox"/>	Moderate <input type="checkbox"/>	Yes <input type="checkbox"/>
Rainy <input type="checkbox"/>	Strong <input type="checkbox"/>	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:



**Sampling Data (24:00)**

Start Time: <u>2:48 pm</u>	End Time: <u>4:48 pm</u>	Total Time (min):
----------------------------	--------------------------	-------------------

NOTE: Please include all other sampling readings (PID, FID, Dräger Tubes, etc.)

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*


**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CROUGHTON</u>	Name:	Name:	
Signature: 	Signature: 	Signature:	
Date: <u>7-8-16</u> Time: <u>5:25 pm</u>	Date: <u>3/11/16</u> Time: <u>9:30</u>	Date:	Time:
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	Time:
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	Time:
Name:	Name:	Name:	
Signature:	Signature:	Signature:	
Date:	Date:	Date:	Time:

Form Rev. 1 *Justine Mc* -30.4 "Hg  
*Finns Vac* -3.6



**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: <u>3-9-16</u>	Canister Number: <u>H2429</u>
Collected By: <u>RANDY CREIGHTON</u>	Sample Location: <u>OSKINER</u>
Print Name:	(GPS) Latitude: <u>30° 4' 22" N</u>
Signature: 	(GPS) Longitude: <u>90° 30' 55" W</u>
Phone No.: <u>225-506-5222</u>	

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None (✓)	No ( )
PC (✓)	Mild ( )	
Cloudy ( )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**

Start Time: <u>7:44am</u>	End Time: <u>3:44pm</u>	Total Time (min):
NOTE: Please include all other sampling readings (PID, FID, Dregger Tubes, etc.)		
<u>8</u>		

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*


**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <u>RANDY CREIGHTON</u>	Name:	Name: <u>Adrian</u>	Name:
Signature: 	Signature:	Signature: 	Signature:
Date: <u>3-09-16</u> Time: <u>3:49pm</u>	Date:	Date: <u>3/9/16</u> Time: <u>9:30</u>	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:

Form Rev. 1 Initial VAC - 30.4 "Hg  
 Final VAC - 5.0

Flow Meter  
627

**"Grab" Sample Collection Worksheet**  
Louisiana Department of Environmental Quality  
Surveillance Division

Date of Collection: <i>030916</i>	Canister Number: <i>H3436</i>
Collected By: <i>RANDY CROUGHTON</i>	Sample Location: <i>OUR LADY OF GRACE</i>
Print Name:	(GPS) Latitude: <i>30° 3' 4" N</i>
Signature: 	(GPS) Longitude: <i>90° 31' 48" W</i>
Phone No.: <i>225-505-5222</i>	

*RUN 24HRS*  
*4:55PM*  
*@ -20HS*  
*Flow Meter*  
*627*

Witness:	Witness:
Analysis Requested:	

Weather Conditions:	Odor Intensity:	Photograph:
Clear ( )	None ( <i>✓</i> )	No ( <i>✓</i> )
PC ( )	Mild ( )	
Cloudy ( <i>✓</i> )	Moderate ( )	Yes ( )
Rainy ( )	Strong ( )	

Describe odors present:

Wind direction & speed:	Ambient temperature:
Relative humidity:	Barometric pressure:

**Sampling Data (24:00)**



Start Time: <i>8:44am</i>	End Time: <i>9:13am 3-10-16</i>	Total Time (min):
---------------------------	---------------------------------	-------------------

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)  
*8 HR CANISTER LEFT OUT FOR 24HRS, AT 9:55PM 3-9-16 VACUUM*  
*24HR @ -20" Hg*

*3-10-16*  
*RDC*

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

Relinquished By:		Received By:	
Name: <i>RANDY CROUGHTON</i>	Name:	Name:	Name:
Signature: 	Signature: 	Signature:	Signature:
Date: <i>3-10-16</i> Time: <i>9:24am</i>	Date: <i>3/11/16</i> Time: <i>9:30</i>	Date:	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:
Name:	Name:	Name:	Name:
Signature:	Signature:	Signature:	Signature:
Date:	Date:	Date:	Date:

Form Rev. 1 INITIAL VAC - *-30.2" Hg*

FINAL VAC - *-12.3" Hg*

*00627*  
*12.1*  
*8HR*

**"Grab" Sample Collection Worksheet**  
**Louisiana Department of Environmental Quality**  
**Surveillance Division**

Date of Collection: 8/9/16

Canister Number: 172439

Collected By: RANDY CRIGGTON

Sample Location: OSHSUAR

Print Name:

(GPS) Latitude: 30° 4' 22" N

Signature: 

(GPS) Longitude: 90° 30' 55" W

Phone No.: 225-505-5222

Witness:

Witness:

Analysis Requested:

Weather Conditions:

Odor Intensity:

Photograph:

Clear ( )

None (✓)

No (✓)

PC ( )

Mild ( )

Yes ( )

Cloudy (✓)

Moderate ( )

Rainy ( )

Strong ( )

Describe odors present:

Wind direction & speed:

Ambient temperature:

Relative humidity:

Barometric pressure:

**Sampling Data (24:00)**

Start Time: 8:15 am

End Time: 3:46 pm

Total Time (min):

NOTE: Please include all other sampling readings (PID, FID, Draeger Tubes, etc.)

8 hr

\*\*\* (draw map on back of sheet showing sampling location and wind direction) \*\*\*

**Chain of Custody Record**

**Relinquished By:**

**Received By:**

Name: RANDY CRIGGTON

Name:

Signature: 

Signature: 

Date: 7-9-16

Time: 3:50 pm

Date: 3/11/16

Time: 9:30

Name:

Name:

Signature:

Signature:

Date:

Time:

Date:

Time:

Name:

Name:

Signature:

Signature:

Date:

Time:

Date:

Time:

Name:

Name:

Signature:

Signature:

Date:

Time:

Date:

Time:

