GETTLER-RYAN INC.

February 29, 2008

Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502

Subject: **Corrected Soil Excavation Report**
Rolls-Royce Engine Service Test Facility,
6701 Old Earhart Road, Oakland, California
Alameda County Site #RO0002606

On behalf of Rolls-Royce Engine Services-Oakland Inc (RR), Gettler-Ryan Inc. (GR) is submitting a corrected copy of the *Soil Excavation Report* dated February 29, 2008 to replace the previously submitted GR report *Soil Excavation Report*, dated February 11, 2008. The previously submitted report contained errors in soil chemical analytical results that were presented in the report text. The corrections of these errors are given as follows:

- On Page 3, the previously reported TPHd concentration of soil sample SW11-4.5 of 0.038 ppm should be 38 ppm;
- On Page 4, the previously reported TPHmo concentration of composite sample SP1-A,B,C,D of 600 ppm should be 2,600 ppm; and
- On Page 4, the previously reported chromium and lead concentrations of composite sample SP1-A,B,C,D of 170 ppm and 50 ppm should be 50 ppm and 170 ppm, respectively.

Please discard the February 11, 2008 copy of the *Soil Excavation Report* and replace it with the enclosed February 29, 2008 copy.

If you have any questions, please call us in our Rancho Cordova office at (916) 631-1300.

Sincerely,
Gettler-Ryan Inc.

Geoffery D. Risse
Project Geologist

Enclosure: Soil Excavation Report dated February 29, 2008

CC: Mr. Dave Goldberg, Rolls-Royce Engine Services-Oakland Inc.
Mr. Dale Klettke, Port of Oakland

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GETTLER-RYAN INC.

SOIL EXCAVATION REPORT

for

Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, California

Report No.25-948218.7
Alameda County Site #RO0002606

Prepared for:

Dave Goldberg
Rolls-Royce Engine Services-Oakland Inc.
7200 Earhart Road
Oakland, California

Prepared by:

Gettler-Ryan Inc.
3140 Gold Camp Drive, Suite 170
Rancho Cordova, California 95670

Geoffrey D. Risse
Staff Geologist

Hagop Kevork
Civil Engineer
P.E. #55734

REGISTERED PROFESSIONAL ENGINEER
HAGOP KEVORK
No. C 55734
Exp. 12/31/08
CIVIL
STATE OF CALIFORNIA

February 29, 2008

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SOIL EXCAVATION REPORT

at
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Pleasanton, California

Report No.25-948218.7
Alameda County Site #RO0002606

INTRODUCTION

This report presents the results of the soil excavation and sampling activities performed by Gettler-Ryan Inc. (GR) at the above referenced site. This work was performed at the request of Rolls-Royce Engine Service-Oakland Inc. (RR) in order to remove contaminated soil and install a storm water drainage system at the subject site. The scope of work performed during this investigation was originally proposed in the Applied Remediation Company (ARC) work plan, *Work Plan for Soil Remediation and Installation of Additional Groundwater Monitoring Wells*, dated October 17, 2006 (Work Plan). This Work Plan was approved by the Alameda County Environmental Health (ACEH) in letter dated March 5, 2007. GR subsequently prepared and submitted the GR work plan addendum, *Addendum to Work Plan for Soil Remediation and Installation of Additional Groundwater Monitoring Wells*, dated April 5, 2007 (Addendum) in response to a telephone conversation held on March 26, 2007 between GR and ACEH. GR later submitted the *Work Plan Addendum to Work Plan for Soil Remediation and Installation of Additional Groundwater Monitoring Wells*, dated July 25, 2007 (Work Plan Addendum) to ACEH. This Work Plan Addendum was subsequently approved by ACEH in a letter dated August 30, 2007.

The scope of work performed for this investigation included: preparing the site safety plan; notifying ACEH; collecting soil samples and water sample from the outdoor engine test cell excavation for chemical analysis; disposing of waste generated from the excavation; and preparing a technical report documenting the work performed.

SITE DESCRIPTION

The subject site is located at 6701 Old Earhart Road, adjacent to the Metropolitan Oakland International Airport (MOIA)-North Field, Oakland, California (Figure 1). Topography in the vicinity of the subject site is relatively flat with an average elevation of 7.5 feet above mean sea level. The closest surface water is within the tidal wetlands bordering the site to the east.

Pertinent site features consists of six engine test cells with auxiliary structures (sheds, pumphouse, waste water sumps, aboveground oil/water separator, control buildings, gas conditioning facility, air receivers, cooling towers, flare stack, etc), one 30,000-gallons aboveground liquefied petroleum fuel tank, one 10,000-gallon jet A fuel underground storage tank (UST) and two paired 8,000-gallon jet A fuel USTs. Pertinent site features and the location of the USTs are shown on Figure 2.

For site background and previous environmental investigation, please refer to GR report No. 25-948218.07, *Well Installation Report*, dated January 11, 2008.

PRE-FIELD ACTIVITIES

Field work was performed in accordance with GR's Site Safety Plan #948218.5, dated September 2007. GR Field Methods and Procedures are included in Appendix A. Underground Service Alert was notified prior to beginning site activities. The proposed excavation area was cleared of subsurface utilities by Cruz Brothers Locators, a utility line locator service, prior to beginning site activities. ACEH, Bay Area Air Quality Management District, and Oakland Fire Department were notified prior to the beginning of site activities.

FIELD ACTIVITIES

On September 13, 2007, GR collected soil samples SW1-4.5, SW2-4.5, SW3-4.5, SW4-4.5, SW5-4.5, SW6-4.5, SW7-4.5, SW8-4.5, SW9-4.5, SW10-4.5, SW11-4.5, SW12-4.5, and SW13-4.5 at a depth of approximately 4.5 feet below ground surface (bgs) from the sidewalls of the outdoor engine test cell excavation. Materials encountered in the excavation generally consisted of soil and artificial fill from ground surface to the base of the excavation at approximately 4.5 feet bgs. Groundwater was encountered in the excavation at depth of approximately 4.5 feet bgs. A sheen was observed on the surface of the water. Approximately 12,100 gallons of water were removed from the excavation and stored onsite in a Baker tank pending disposal. A total of approximately 282 cubic yards of soil and artificial fill were removed from the outdoor engine test cell excavation. Soil samples were collected using a slide hammer and 6-inch soil sampler fitted with a pre-cleaned, six-inch brass sleeve. GR also collected water sample Water-1 from the water present in the outdoor engine test cell excavation. The water sample was collected using a pre-cleaned disposable bailer. Field work was performed in accordance with GR Field Methods and Procedures presented in Appendix A. Soil sample locations are shown on Figure 2.

Soil generated during excavation activities was stored onsite on and covered with plastic pending disposal. Soil stockpile sampling procedures are presented in Appendix A. Water generated from the dewatering of the excavation was stored onsite in 20,000-gallon Baker tank pending disposal. On September 27, 2007, GR collected 4-point composite samples SP1-A,B,C,D and SP2-A,B,C,D from approximately 282 cubic yards of excavated soil. On October 3, 2007, water sample BK-1 was collected from the water contained in the Baker tank.

Water samples MW-1 through MW-15, MW-17, MW-18, NPORD MW-3, and NPORD MW-4 were collected from the site monitoring wells during the 4th quarter 2007 quarterly monitoring event.

Analytical results for water samples MW-1 through MW-15, MW-17, MW-18, NPORD MW-3, and NPORD MW-4 are presented and discussed in GR's *4th Quarter 2007 Groundwater Monitoring and Sampling Report*, dated January 11, 2008.

RESULTS

A total of 13 soil samples and 1 water sample collected from the excavation along with 2 composite soil stockpile samples and 1 Baker tank water sample were submitted for chemical analysis. Soil and water samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) for chemical analysis.

Soil and water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Methyl tert-Butyl Ether, (MtBE), and napthalene by EPA Method 8260B and for Total Petroleum Hydrocarbons as diesel (TPHd), Total Petroleum Hydrocarbons as motor oil (TPHmo), and Total Petroleum Hydrocarbons as jet fuel (TPHjf) by modified EPA Method 8015. In addition, composite soil samples were analyzed for total oil and grease (TOG) by EPA Method 1864AM, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, volatile organic compounds (VOCs) by EPA Method 8260B, for polychlorinated biphenyls (PCBs) by EPA Method 8082, and for cadmium, chromium, lead, nickel and zinc by EPA Method 6010B.

Copies of the laboratory reports and chain-of-custody forms are included in Appendix B. Soil chemical analytical data are summarized in Table 1. Water chemical analytical data are summarized in Table 2.

Soil Analytical Results

Concentrations of MtBE were below laboratory reported method detection limits in the soil samples collected from the excavation. Benzene concentrations were detected in soil samples SW5-4.5, SW4-4.5, and SW8-4.5 at 0.036 parts per million (ppm), 0.052 ppm and 0.42 ppm, respectively and were below laboratory reported method detection limits in the remaining soil samples. Only soil sample SW5-4.5 contained detected concentrations of toluene, P,M-xylenes and O-xylenes at 0.027 ppm, 0.078 ppm, and 0.038 ppm, respectively. Naphthalene was detected in five samples at concentrations ranging from 0.050 ppm in soil sample SW2-4.5 to 72 ppm in soil sample SW12-4.5.

Detectable concentrations of TPHg were reported in the soil samples collected ranged from 7.3 ppm in sample SW13-4.5 to 6,200 ppm in sample SW8-4.5. Concentrations of TPHd detected in soil samples collected ranged from 38 ppm in sample SW11-4.5 to 13,000 ppm in sample SW1-4.5. Concentrations of TPHmo detected in the soil samples collected ranged from 53 ppm in sample SW6-4.5 to 2,200 ppm in samples SW10-4.5. Concentrations of TPHjf detected in the soil samples collected ranged from 7.2 ppm in sample SW3-4.5 to 15,000 ppm in samples SW4-4.5.

Concentrations of BTEX, MtBE, naphthalene, PCBs and cadmium were below laboratory reported method detection limits in the composite soil samples SP1-A,B,C,D and SP2-A,B,C,D. Composite soil samples SP1-A,B,C,D and SP2-A,B,C,D contained TPHg concentrations of 140 ppm and 37 ppm, respectively, and TPHd concentrations of 4,000 ppm and 1,500 ppm, respectively.

Composite soil samples SP1-A,B,C,D and SP2-A,B,C,D contained TPHmo concentrations of 2,600 ppm and 970 ppm, respectively. Composite soil samples SP1-A,B,C,D and SP2-A,B,C,D contained TPHjf concentrations of 4,200 ppm and 2,000 ppm, respectively.

Chromium and lead were detected in composite soil sample SP1-A,B,C,D at concentrations of 50 ppm, and 170 ppm, respectively. Composite soil sample SP2-A,B,C,D contained lead at a concentration of 319 ppm.

Composite sample SP1-A,B,C,D was re-logged for Soluble Threshold Limit Concentration (STLC) lead analysis and STLC chromium analysis by EPA Method 6010A and resulted in a STLC lead concentration and STLC chromium concentration of 6.82 ppm and 0.532 ppm. Composite sample SP1-A,B,C,D was again re-logged for Toxicity Characteristic Leaching Procedure (TCLP) lead analysis by EPA Method 6010A and resulting in a TCLP lead concentration of 0.381 ppm.

Composite sample SP2-A,B,C,D was re-logged for STLC lead analysis by EPA Method 6010A and resulted in a STLC lead concentration of 3.15 ppm. Composite sample SP1-A,B,C,D was again re-logged for TCLP lead analysis by EPA Method 6010A and resulting in a TCLP lead concentration of 0.151ppm.

Water Analytical Results

Water sample Water-1 contained 400 parts per billion (ppb) of TPHg, 66,000 ppb of TPHd, 17,000 ppb of TPHmo, 72,000 ppb of TPHjf, 2.5 ppb of benzene, 5.5 ppb of MtBE, and 53 ppb of naphthalene.

Water sample BK-1 contained 260 ppb of TPHg, 140 ppb of TPHd, 2,400 ppb of TPHjf, 0.54 of total xylenes, 5.1 ppb of MtBE and 1.6 ppb of naphthalene.

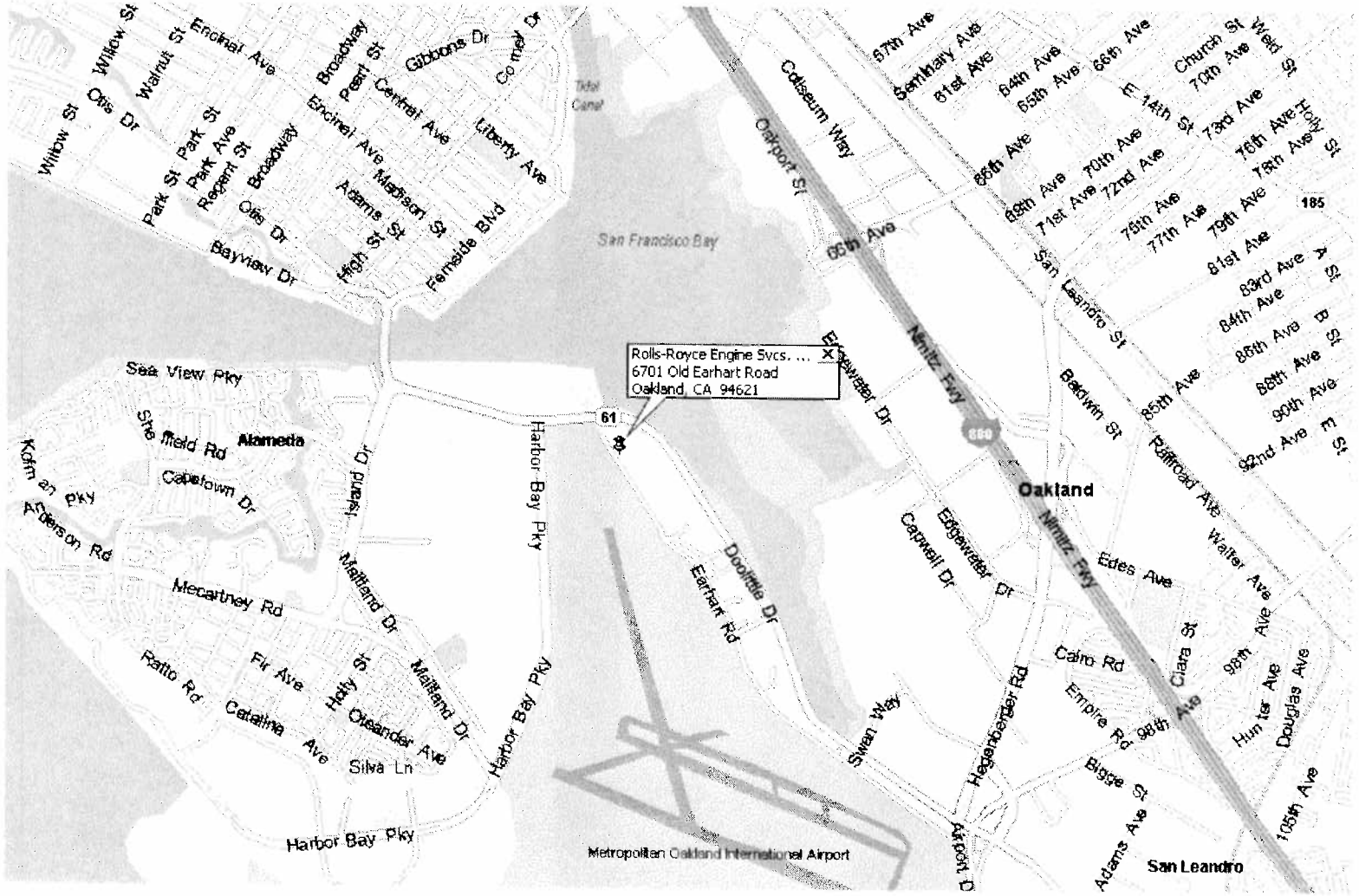
WASTE DISPOSAL

Soil generated from well installation and excavation activities were placed on and covered with plastic at the subject site and composite soil samples SP1-A,B,C,D and SP2-A,B,C,D were collected. On November 28, 2007, Den Beste Transportation Inc removed 144.47 tons of soil stockpile SP-2 from the site and transported the soil to Keller Canyon Landfill in Pittsburg, California for disposal. On November 27, 2007, Den Beste Transportation Inc. removed 249.96 tons of soil stockpile SP-1 from the site and transported the soil as environmentally hazardous substances solid to Chemical Waste Management disposal facility in Kettleman City, California for disposal. Soil disposal documentation is included in Appendix C.

Water generated from quarterly sampling of monitoring wells and excavation activities were stored onsite in 20,000-gallon Baker tank and water sample BK-1 was collected. 12,100 gallons of water were removed from the site by Phillips West Industrial Services and taken to Evergreen Oil Inc in Newark, California on October 18 and 22, 2007 for disposal. Water disposal documentation is included in Appendix C.

TABLES

FIGURES

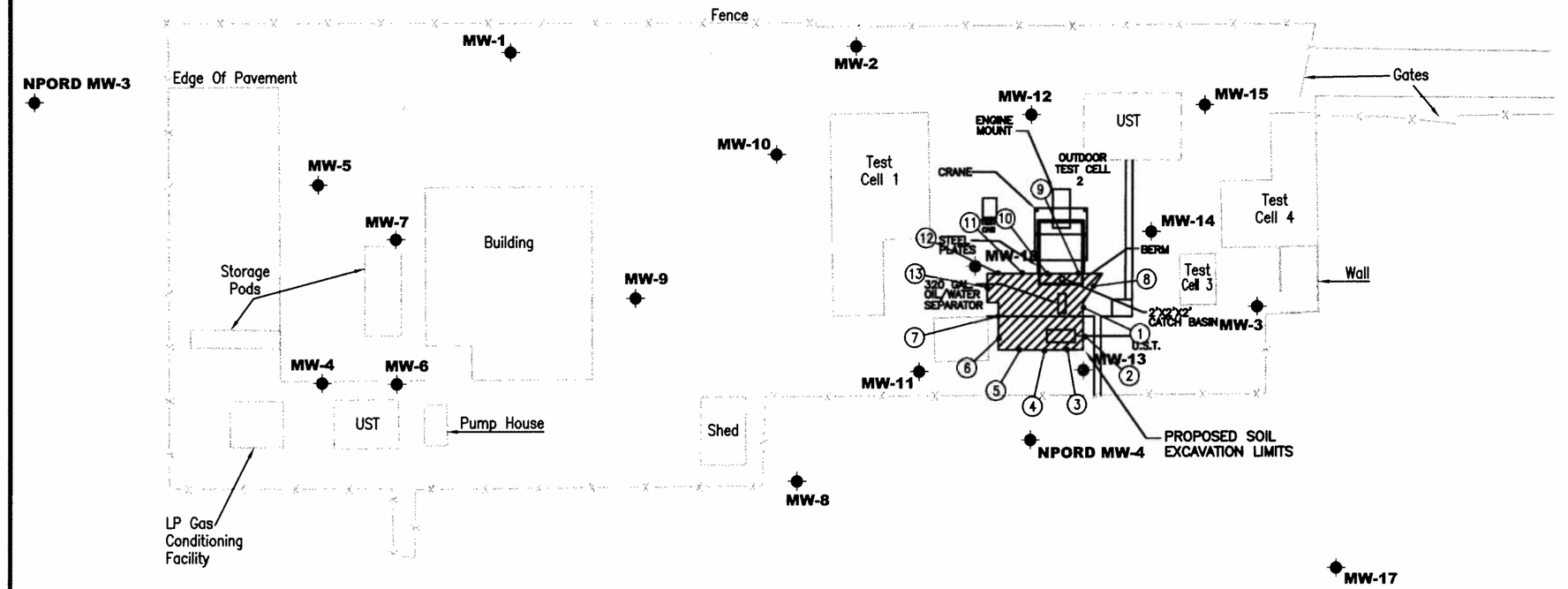


GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568 (925) 551-7555

SITE LOCATION MAP
ROLLS-ROYCE ENGINE SERVICES TEST FACILITY
6701 OLD EARHART RD.
OAKLAND, CA

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
25-948218.7		11/13/07	



SAMPLE DESIGNATIONS

◯	Soil Sample Designation
1	SW1–4.5
2	SW2–4.5
3	SW3–4.5
4	SW4–4.5
5	SW13–4.5
6	SW6–4.5
7	SW5–4.5
8	SW7–4.5
9	SW8–4.5
10	SW9–4.5
11	SW12–4.5
12	SW11–4.5
13	SW10–4.5

LEGEND

- • Soil Sample Location
- (1) Soil Sample Designation
- ⊕ Groundwater Monitoring Well

0 60

Scale in Feet

Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.

SITE PLAN
Rolls–Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

FIGURE 2

REVISED DATE 2/6/08

DATE 11/07

REVIEWED BY

PROJECT NUMBER 948218.7

APPENDIX A

GETTLER-RYAN INC.

FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on the contents of these plans prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Soil samples are collected from the wall or base of the excavation with a hand-driven sampling device fitted with a 2-inch-diameter, clean brass tube or stainless steel liner. After removal from the sampling device, soil samples are covered on both ends with Teflon sheeting, capped, labeled, and place in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory.

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves placing a small amount of the soil to be screened in a sealable plastic bag. The bag is warmed in the sun to allow organic compounds in the soil sample to volatilize. The PID probe is inserted through the wall of the bag and into the headspace inside, and the meter reading is recorded in the field notes. Head-space screening is performed and results recorded as reconnaissance data only. G-R does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Grab Groundwater Sampling

Grab samples of groundwater are collected from the boring using a bailer. The groundwater sample is decanted into laboratory-supplied containers appropriate for the anticipated analyses. Sample bottles are then labelled and placed in chilled storage for transport to the analyical laboratory. A chain-of-custody form is initiated in the field and accompanies the groundwater samples to the analytical laboratory.

Storing and Sampling of Soil Stockpiles

Excavated material is stockpiled on and covered with plastic sheeting. Stockpile samples are collected and analyzed for disposal classification on the basis of one composite sample per 100 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 12 to 18 inches of soil, and then driving the stainless steel or brass sample tube into the stockpiled material with a mallet or drive sampler. The sample tubes are then covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

APPENDIX B

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 13 Soil Samples and 1 Water Sample
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.5

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Subject : 13 Soil Samples and 1 Water Sample
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.5

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples SW3-4.5, SW2-4.5, SW11-4.5, SW5-4.5, SW6-4.5, SW10-4.5, SW4-4.5, and SW8-4.5 for the analyte TPH as Diesel were affected by the analyte concentrations already present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate Results associated with samples SW12-4.5, SW7-4.5, and SW1-4.5 for the analyte TPH as Diesel were affected by the analyte concentrations already present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate Results associated with sample Water-1 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

The Method Reporting Limit for Naphthalene has been increased due to the presence of an interfering compound for samples SW1-4.5, SW4-4.5, SW5-4.5, SW7-4.5 and SW8-4.5.

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **Water-1** Matrix : Water Lab Number : 58484-01
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**5.5**	0.50	ug/L	EPA 8260B	9/18/2007
TPH as Gasoline	**400**	50	ug/L	EPA 8260B	9/18/2007
Benzene	**2.5**	0.50	ug/L	EPA 8260B	9/18/2007
Toluene	**1.5**	0.50	ug/L	EPA 8260B	9/18/2007
Ethylbenzene	**2.6**	0.50	ug/L	EPA 8260B	9/18/2007
P,M-Xylene	**4.3**	1.0	ug/L	EPA 8260B	9/18/2007
O-Xylene	**2.9**	0.50	ug/L	EPA 8260B	9/18/2007
Naphthalene	**53**	0.50	ug/L	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	98.2		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	88.7		% Recovery	EPA 8260B	9/18/2007
TPH as Jet Fuel	**72000**	500	ug/L	M EPA 8015	9/21/2007
TPH as Diesel (Silica Gel)	**66000**	500	ug/L	M EPA 8015	9/20/2007
TPH as Motor Oil	**17000**	500	ug/L	M EPA 8015	9/21/2007
Octacosane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/21/2007
Octacosane (Diesel Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/21/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW1-4.5** Matrix : Soil Lab Number : 58484-02
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**2200**	25	mg/Kg	EPA 8260B	9/18/2007
Benzene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Toluene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**< 0.50**	0.50	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**< 5.0**	5.0	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	99.6		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	89.2		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**13000**	25	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**13000**	250	mg/Kg	M EPA 8015	9/21/2007
TPH as Motor Oil	**1200**	200	mg/Kg	M EPA 8015	9/21/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/21/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW2-4.5** Matrix : Soil Lab Number : 58484-03
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	9/15/2007
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
P,M-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
O-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/15/2007
Naphthalene	**0.050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	9/15/2007
Toluene-d8 (Surr)	102		% Recovery	EPA 8260B	9/15/2007
4-Bromofluorobenzene (Surr)	94.1		% Recovery	EPA 8260B	9/15/2007
TPH as Diesel (Silica Gel)	**200**	5.0	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**220**	5.0	mg/Kg	M EPA 8015	9/18/2007
(Note: Hydrocarbons are higher boiling than typical Jet Fuel..)					
TPH as Motor Oil	**350**	40	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	97.3		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	101		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW3-4.5** Matrix : Soil Lab Number : 58484-04
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	9/14/2007
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
P,M-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
O-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Naphthalene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/14/2007
Toluene-d8 (Surr)	98.4		% Recovery	EPA 8260B	9/14/2007
4-Bromofluorobenzene (Surr)	87.2		% Recovery	EPA 8260B	9/14/2007
TPH as Diesel (Silica Gel)	**8.0**	1.0	mg/Kg	M EPA 8015	9/17/2007
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**7.2**	1.0	mg/Kg	M EPA 8015	9/17/2007
(Note: Hydrocarbons are higher boiling than typical Jet Fuel..)					
TPH as Motor Oil	**< 10**	10	mg/Kg	M EPA 8015	9/17/2007
1-Chlorooctadecane (Diesel Surrogate)	101		% Recovery	M EPA 8015	9/17/2007
1-Chlorooctadecane (Silica Gel Surr)	91.5		% Recovery	M EPA 8015	9/17/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW4-4.5** Matrix : Soil Lab Number : 58484-05
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.025**	0.025	mg/Kg	EPA 8260B	9/16/2007
TPH as Gasoline	**360**	7.0	mg/Kg	EPA 8260B	9/20/2007
Benzene	**0.052**	0.025	mg/Kg	EPA 8260B	9/16/2007
Toluene	**< 0.025**	0.025	mg/Kg	EPA 8260B	9/16/2007
Ethylbenzene	**< 0.025**	0.025	mg/Kg	EPA 8260B	9/16/2007
P,M-Xylene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/16/2007
O-Xylene	**0.055**	0.025	mg/Kg	EPA 8260B	9/16/2007
Naphthalene	**< 0.50**	0.50	mg/Kg	EPA 8260B	9/16/2007
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	9/16/2007
Toluene-d8 (Surr)	99.1		% Recovery	EPA 8260B	9/16/2007
4-Bromofluorobenzene (Surr)	84.7		% Recovery	EPA 8260B	9/16/2007
TPH as Diesel (Silica Gel)	**12000**	20	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**15000**	200	mg/Kg	M EPA 8015	9/19/2007
TPH as Motor Oil	**2100**	2000	mg/Kg	M EPA 8015	9/19/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/19/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW5-4.5** Matrix : Soil Lab Number : 58484-06
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.025**	0.025	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**520**	15	mg/Kg	EPA 8260B	9/20/2007
Benzene	**0.036**	0.025	mg/Kg	EPA 8260B	9/18/2007
Toluene	**0.027**	0.025	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**0.078**	0.050	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**0.038**	0.025	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**< 1.0**	1.0	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	99.5		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	84.5		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**370**	10	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**360**	10	mg/Kg	M EPA 8015	9/18/2007
TPH as Motor Oil	**150**	80	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW6-4.5** Matrix : Soil Lab Number : 58484-07
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	9/14/2007
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
P,M-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
O-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Naphthalene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/14/2007
Toluene-d8 (Surr)	99.0		% Recovery	EPA 8260B	9/14/2007
4-Bromofluorobenzene (Surr)	85.0		% Recovery	EPA 8260B	9/14/2007
TPH as Diesel (Silica Gel)	**43**	1.0	mg/Kg	M EPA 8015	9/17/2007
TPH as Jet Fuel	**54**	2.0	mg/Kg	M EPA 8015	9/18/2007
TPH as Motor Oil	**53**	20	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	94.6		% Recovery	M EPA 8015	9/17/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW7-4.5** Matrix : Soil Lab Number : 58484-08
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**2000**	25	mg/Kg	EPA 8260B	9/18/2007
Benzene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Toluene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**< 0.50**	0.50	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**< 0.25**	0.25	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**< 5.0**	5.0	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	99.4		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	88.2		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**7900**	50	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**8900**	100	mg/Kg	M EPA 8015	9/21/2007
TPH as Motor Oil	**1600**	800	mg/Kg	M EPA 8015	9/21/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/21/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW8-4.5** Matrix : Soil Lab Number : 58484-09
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**6200**	250	mg/Kg	EPA 8260B	9/20/2007
Benzene	**0.42**	0.40	mg/Kg	EPA 8260B	9/18/2007
Toluene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**< 0.80**	0.80	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**< 5.0**	5.0	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	100		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	85.2		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**12000**	50	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**14000**	200	mg/Kg	M EPA 8015	9/20/2007
TPH as Motor Oil	**370**	80	mg/Kg	M EPA 8015	9/20/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/20/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW9-4.5** Matrix : Soil Lab Number : 58484-10
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**2200**	40	mg/Kg	EPA 8260B	9/18/2007
Benzene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Toluene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**< 0.70**	0.70	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**10**	0.40	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	99.9		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	89.6		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**500**	10	mg/Kg	M EPA 8015	9/18/2007
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**210**	10	mg/Kg	M EPA 8015	9/18/2007
(Note: Hydrocarbons are higher boiling than typical Jet Fuel..)					
TPH as Motor Oil	**860**	80	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW10-4.5** Matrix : Soil Lab Number : 58484-11
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/17/2007
TPH as Gasoline	**670**	9.0	mg/Kg	EPA 8260B	9/18/2007
Benzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/17/2007
Toluene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/17/2007
Ethylbenzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/17/2007
P,M-Xylene	**< 0.10**	0.10	mg/Kg	EPA 8260B	9/17/2007
O-Xylene	**< 0.050**	0.050	mg/Kg	EPA 8260B	9/17/2007
Naphthalene	**1.6**	0.050	mg/Kg	EPA 8260B	9/17/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/17/2007
Toluene-d8 (Surr)	99.1		% Recovery	EPA 8260B	9/17/2007
4-Bromofluorobenzene (Surr)	88.1		% Recovery	EPA 8260B	9/17/2007
TPH as Diesel (Silica Gel)	**4100**	20	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**6000**	100	mg/Kg	M EPA 8015	9/18/2007
TPH as Motor Oil	**2200**	800	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW11-4.5** Matrix : Soil Lab Number : 58484-12
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	9/20/2007
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
P,M-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
O-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
Naphthalene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/20/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	9/20/2007
Toluene-d8 (Surr)	97.6		% Recovery	EPA 8260B	9/20/2007
4-Bromofluorobenzene (Surr)	84.3		% Recovery	EPA 8260B	9/20/2007
TPH as Diesel (Silica Gel)	**38**	5.0	mg/Kg	M EPA 8015	9/18/2007
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	**35**	5.0	mg/Kg	M EPA 8015	9/18/2007
(Note: Hydrocarbons are higher boiling than typical Jet Fuel..)					
TPH as Motor Oil	**91**	40	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	127		% Recovery	M EPA 8015	9/18/2007
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW12-4.5** Matrix : Soil Lab Number : 58484-13
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
TPH as Gasoline	**2400**	40	mg/Kg	EPA 8260B	9/18/2007
Benzene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Toluene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Ethylbenzene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	**< 0.70**	0.70	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	**< 0.40**	0.40	mg/Kg	EPA 8260B	9/18/2007
Naphthalene	**72**	0.40	mg/Kg	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	9/18/2007
Toluene-d8 (Surr)	99.4		% Recovery	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	88.7		% Recovery	EPA 8260B	9/18/2007
TPH as Diesel (Silica Gel)	**920**	5.0	mg/Kg	M EPA 8015	9/18/2007
TPH as Jet Fuel	**950**	20	mg/Kg	M EPA 8015	9/19/2007
TPH as Motor Oil	**67**	40	mg/Kg	M EPA 8015	9/18/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	9/19/2007
1-Chlorooctadecane (Silica Gel Surr)	108		% Recovery	M EPA 8015	9/18/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58484
Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.5**

Sample : **SW13-4.5** Matrix : Soil Lab Number : 58484-14
Sample Date :9/13/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
TPH as Gasoline	**7.3**	1.0	mg/Kg	EPA 8260B	9/14/2007
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
P,M-Xylene	**< 0.010**	0.010	mg/Kg	EPA 8260B	9/14/2007
O-Xylene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	9/14/2007
Naphthalene	**0.0065**	0.0050	mg/Kg	EPA 8260B	9/14/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/14/2007
Toluene-d8 (Surr)	97.9		% Recovery	EPA 8260B	9/14/2007
4-Bromofluorobenzene (Surr)	86.8		% Recovery	EPA 8260B	9/14/2007
TPH as Diesel (Silica Gel)	**76**	1.0	mg/Kg	M EPA 8015	9/17/2007
TPH as Jet Fuel	**84**	1.0	mg/Kg	M EPA 8015	9/19/2007
TPH as Motor Oil	**68**	10	mg/Kg	M EPA 8015	9/19/2007
1-Chlorooctadecane (Diesel Surrogate)	87.0		% Recovery	M EPA 8015	9/19/2007
1-Chlorooctadecane (Silica Gel Surr)	97.5		% Recovery	M EPA 8015	9/17/2007

Approved By: Joel Kiff

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Report Number : 58484

Date : 9/24/2007

QC Report : Method Blank Data

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.5**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	9/15/2007
TPH as Jet Fuel	< 1.0	1.0	mg/Kg	M EPA 8015	9/17/2007
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	9/17/2007
1-Chlorooctadecane (Diesel Surrogate)	82.8		%	M EPA 8015	9/17/2007
1-Chlorooctadecane (Silica Gel Surr)	73.6		%	M EPA 8015	9/15/2007
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	9/17/2007
TPH as Jet Fuel	< 1.0	1.0	mg/Kg	M EPA 8015	9/17/2007
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	9/17/2007
1-Chlorooctadecane (Diesel Surrogate)	87.3		%	M EPA 8015	9/17/2007
1-Chlorooctadecane (Silica Gel Surr)	103		%	M EPA 8015	9/17/2007
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	9/19/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	9/19/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	9/19/2007
Octacosane (Diesel Surrogate)	108		%	M EPA 8015	9/19/2007
Octacosane (Diesel Silica Gel Surr)	112		%	M EPA 8015	9/19/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/14/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/14/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	9/14/2007
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	9/14/2007
Toluene - d8 (Surr)	98.4		%	EPA 8260B	9/14/2007
4-Bromofluorobenzene (Surr)	87.5		%	EPA 8260B	9/14/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/18/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/18/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/18/2007
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/18/2007
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/18/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/18/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	9/18/2007
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	9/18/2007
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	9/18/2007
Toluene - d8 (Surr)	98.6		%	EPA 8260B	9/18/2007
4-Bromofluorobenzene (Surr)	91.0		%	EPA 8260B	9/18/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	9/20/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	9/20/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	9/20/2007
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	9/20/2007
Toluene - d8 (Surr)	98.3		%	EPA 8260B	9/20/2007
4-Bromofluorobenzene (Surr)	85.4		%	EPA 8260B	9/20/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58484

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.5**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	58484-06	370	20.0	20.0	160	402	mg/Kg	M EPA 8015	9/18/07	41.2	104	86.2	60-140	25
TPH as Diesel	58484-06	360	20.0	20.0	544	198	mg/Kg	M EPA 8015	9/18/07	142	51.6	93.4	60-140	25
TPH-D (Si Gel)	58492-01	34	20.0	20.0	21.8	38.3	mg/Kg	M EPA 8015	9/18/07	40.2	70.6	54.9	60-140	25
TPH as Diesel	58492-01	57	20.0	20.0	28.0	53.4	mg/Kg	M EPA 8015	9/18/07	36.4	69.5	62.4	60-140	25
TPH-D (Si Gel)	Blank	<50	1000	1000	738	745	ug/L	M EPA 8015	9/19/07	73.8	74.5	0.964	70-130	25
TPH as Diesel	Blank	<50	1000	1000	779	860	ug/L	M EPA 8015	9/19/07	77.9	86.0	9.93	70-130	25
1,1-Dichloroethane	58484-04	<0.0050	0.0392	0.0396	0.0352	0.0354	mg/Kg	EPA 8260B	9/14/07	89.7	89.3	0.416	70-130	25
Benzene	58484-04	<0.0050	0.0392	0.0396	0.0373	0.0374	mg/Kg	EPA 8260B	9/14/07	95.2	94.3	0.886	70-130	25
1,2-Dichloroethane	58484-04	<0.0050	0.0392	0.0396	0.0360	0.0367	mg/Kg	EPA 8260B	9/14/07	91.7	92.6	1.01	70-130	25
Toluene	58484-04	<0.0050	0.0392	0.0396	0.0372	0.0375	mg/Kg	EPA 8260B	9/14/07	95.0	94.8	0.250	70-130	25
Chlorobenzene	58484-04	<0.0050	0.0392	0.0396	0.0359	0.0360	mg/Kg	EPA 8260B	9/14/07	91.6	90.9	0.839	70-130	25
Tert-Butanol	58484-04	0.0062	0.196	0.198	0.198	0.198	mg/Kg	EPA 8260B	9/14/07	97.7	96.8	0.932	70-130	25
Methyl-t-Butyl Ether	58484-04	<0.0050	0.0392	0.0396	0.0324	0.0339	mg/Kg	EPA 8260B	9/14/07	82.5	85.6	3.72	70-130	25
1,1-Dichloroethane	58475-08	<0.0050	0.0396	0.0396	0.0422	0.0376	mg/Kg	EPA 8260B	9/18/07	107	95.0	11.5	70-130	25
Benzene	58475-08	<0.0050	0.0396	0.0396	0.0413	0.0385	mg/Kg	EPA 8260B	9/18/07	104	97.2	7.16	70-130	25
1,2-Dichloroethane	58475-08	<0.0050	0.0396	0.0396	0.0419	0.0390	mg/Kg	EPA 8260B	9/18/07	106	98.4	7.22	70-130	25
Toluene	58475-08	<0.0050	0.0396	0.0396	0.0392	0.0396	mg/Kg	EPA 8260B	9/18/07	99.1	100	0.998	70-130	25
Chlorobenzene	58475-08	<0.0050	0.0396	0.0396	0.0422	0.0386	mg/Kg	EPA 8260B	9/18/07	106	97.6	8.80	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58484

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.5**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	58475-08	0.040	0.198	0.198	0.224	0.237	mg/Kg	EPA 8260B	9/18/07	93.0	99.2	6.44	70-130	25
Methyl-t-Butyl Ether	58475-08	0.016	0.0396	0.0396	0.0465	0.0518	mg/Kg	EPA 8260B	9/18/07	78.0	91.6	16.0	70-130	25
1,1-Dichloroethane	58534-01	<0.50	40.0	39.9	37.4	37.0	ug/L	EPA 8260B	9/18/07	93.6	92.7	0.922	70-130	25
Benzene	58534-01	580	40.0	39.9	611	582	ug/L	EPA 8260B	9/18/07	80.5	8.76	161	70-130	25
1,2-Dichloroethane	58534-01	5.5	40.0	39.9	43.0	43.8	ug/L	EPA 8260B	9/18/07	93.6	95.7	2.26	70-130	25
Toluene	58534-01	66	40.0	39.9	104	99.0	ug/L	EPA 8260B	9/18/07	94.6	82.5	13.7	70-130	25
Chlorobenzene	58534-01	<0.50	40.0	39.9	40.8	40.4	ug/L	EPA 8260B	9/18/07	102	101	0.964	70-130	25
Tert-Butanol	58534-01	33	200	200	238	237	ug/L	EPA 8260B	9/18/07	102	102	0.111	70-130	25
Methyl-t-Butyl Ether	58534-01	0.99	40.0	39.9	38.7	39.0	ug/L	EPA 8260B	9/18/07	94.3	95.1	0.886	70-130	25
1,1-Dichloroethane	58464-08	<0.0050	0.0400	0.0393	0.0358	0.0352	mg/Kg	EPA 8260B	9/20/07	89.4	89.5	0.132	70-130	25
Benzene	58464-08	<0.0050	0.0400	0.0393	0.0367	0.0363	mg/Kg	EPA 8260B	9/20/07	91.7	92.3	0.639	70-130	25
1,2-Dichloroethane	58464-08	<0.0050	0.0400	0.0393	0.0347	0.0346	mg/Kg	EPA 8260B	9/20/07	86.8	88.1	1.40	70-130	25
Toluene	58464-08	<0.0050	0.0400	0.0393	0.0354	0.0348	mg/Kg	EPA 8260B	9/20/07	88.4	88.5	0.0880	70-130	25
Chlorobenzene	58464-08	<0.0050	0.0400	0.0393	0.0333	0.0331	mg/Kg	EPA 8260B	9/20/07	83.4	84.2	0.946	70-130	25
Tert-Butanol	58464-08	<0.0050	0.200	0.196	0.167	0.166	mg/Kg	EPA 8260B	9/20/07	83.6	84.6	1.20	70-130	25
Methyl-t-Butyl Ether	58464-08	<0.0050	0.0400	0.0393	0.0327	0.0326	mg/Kg	EPA 8260B	9/20/07	81.7	83.0	1.60	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58484

QC Report : Laboratory Control Sample (LCS)

Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.5**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/15/07	81.7	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/17/07	93.1	70-130
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	9/17/07	82.3	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/17/07	99.0	70-130
1,1-Dichloroethane	0.0394	mg/Kg	EPA 8260B	9/14/07	90.6	70-130
Benzene	0.0394	mg/Kg	EPA 8260B	9/14/07	95.7	70-130
1,2-Dichloroethane	0.0394	mg/Kg	EPA 8260B	9/14/07	93.6	70-130
Toluene	0.0394	mg/Kg	EPA 8260B	9/14/07	96.6	70-130
Chlorobenzene	0.0394	mg/Kg	EPA 8260B	9/14/07	93.5	70-130
Tert-Butanol	0.197	mg/Kg	EPA 8260B	9/14/07	99.7	70-130
Methyl-t-Butyl Ether	0.0394	mg/Kg	EPA 8260B	9/14/07	83.3	70-130
1,1-Dichloroethane	0.0403	mg/Kg	EPA 8260B	9/18/07	93.1	70-130
Benzene	0.0403	mg/Kg	EPA 8260B	9/18/07	96.2	70-130
1,2-Dichloroethane	0.0403	mg/Kg	EPA 8260B	9/18/07	94.5	70-130
Toluene	0.0403	mg/Kg	EPA 8260B	9/18/07	95.2	70-130
Chlorobenzene	0.0403	mg/Kg	EPA 8260B	9/18/07	88.8	70-130
Tert-Butanol	0.202	mg/Kg	EPA 8260B	9/18/07	91.8	70-130
Methyl-t-Butyl Ether	0.0403	mg/Kg	EPA 8260B	9/18/07	93.3	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58484

QC Report : Laboratory Control Sample (LCS)

Date : 9/24/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.5**

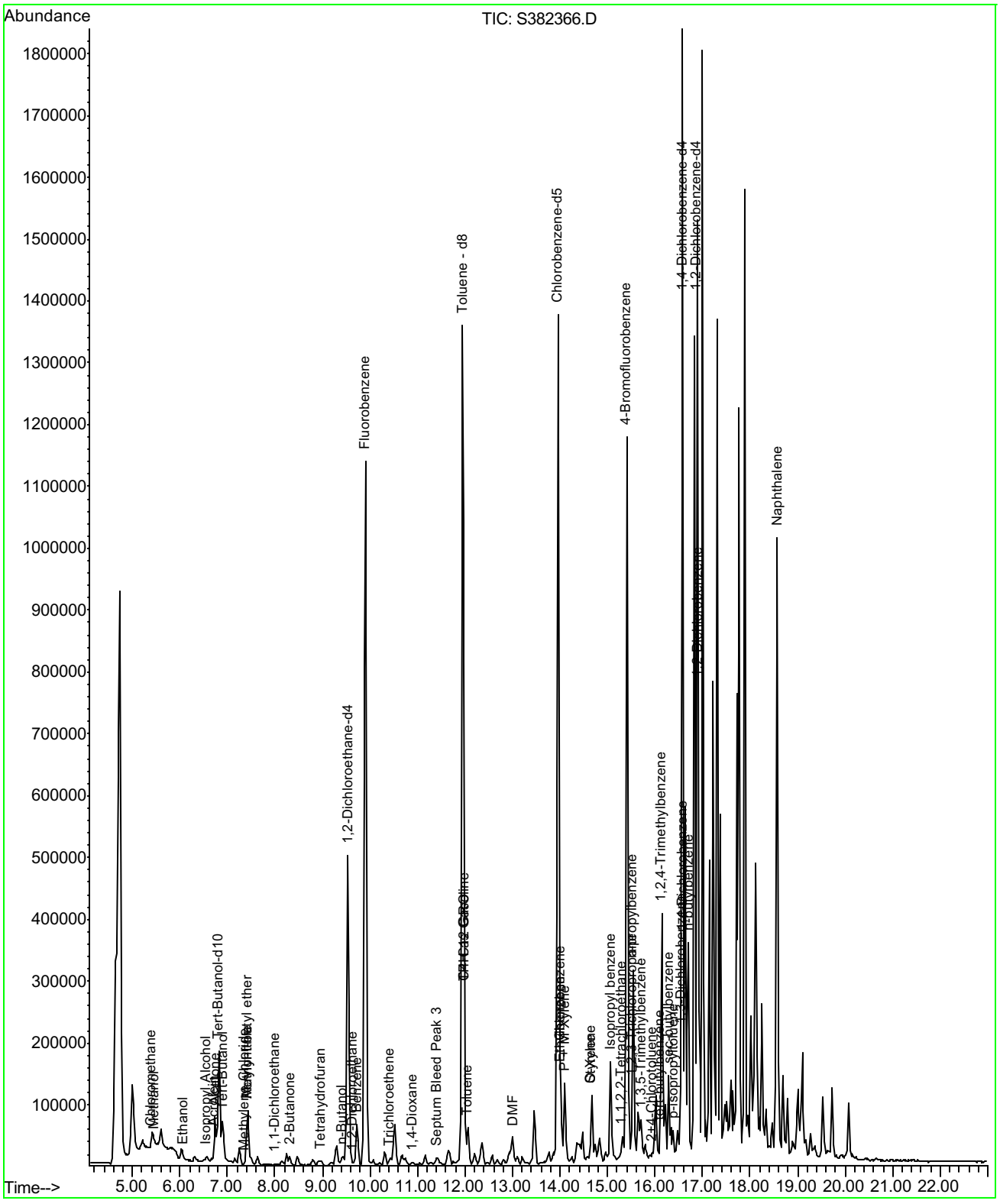
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	9/18/07	103	70-130
Benzene	40.0	ug/L	EPA 8260B	9/18/07	106	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	9/18/07	100	70-130
Toluene	40.0	ug/L	EPA 8260B	9/18/07	106	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	9/18/07	98.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/18/07	98.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/18/07	100	70-130
1,1-Dichloroethane	0.0397	mg/Kg	EPA 8260B	9/20/07	95.0	70-130
Benzene	0.0397	mg/Kg	EPA 8260B	9/20/07	98.6	70-130
1,2-Dichloroethane	0.0397	mg/Kg	EPA 8260B	9/20/07	97.1	70-130
Toluene	0.0397	mg/Kg	EPA 8260B	9/20/07	95.4	70-130
Chlorobenzene	0.0397	mg/Kg	EPA 8260B	9/20/07	91.0	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	9/20/07	92.6	70-130
Methyl-t-Butyl Ether	0.0397	mg/Kg	EPA 8260B	9/20/07	84.9	70-130

Approved By: Joel Kiff

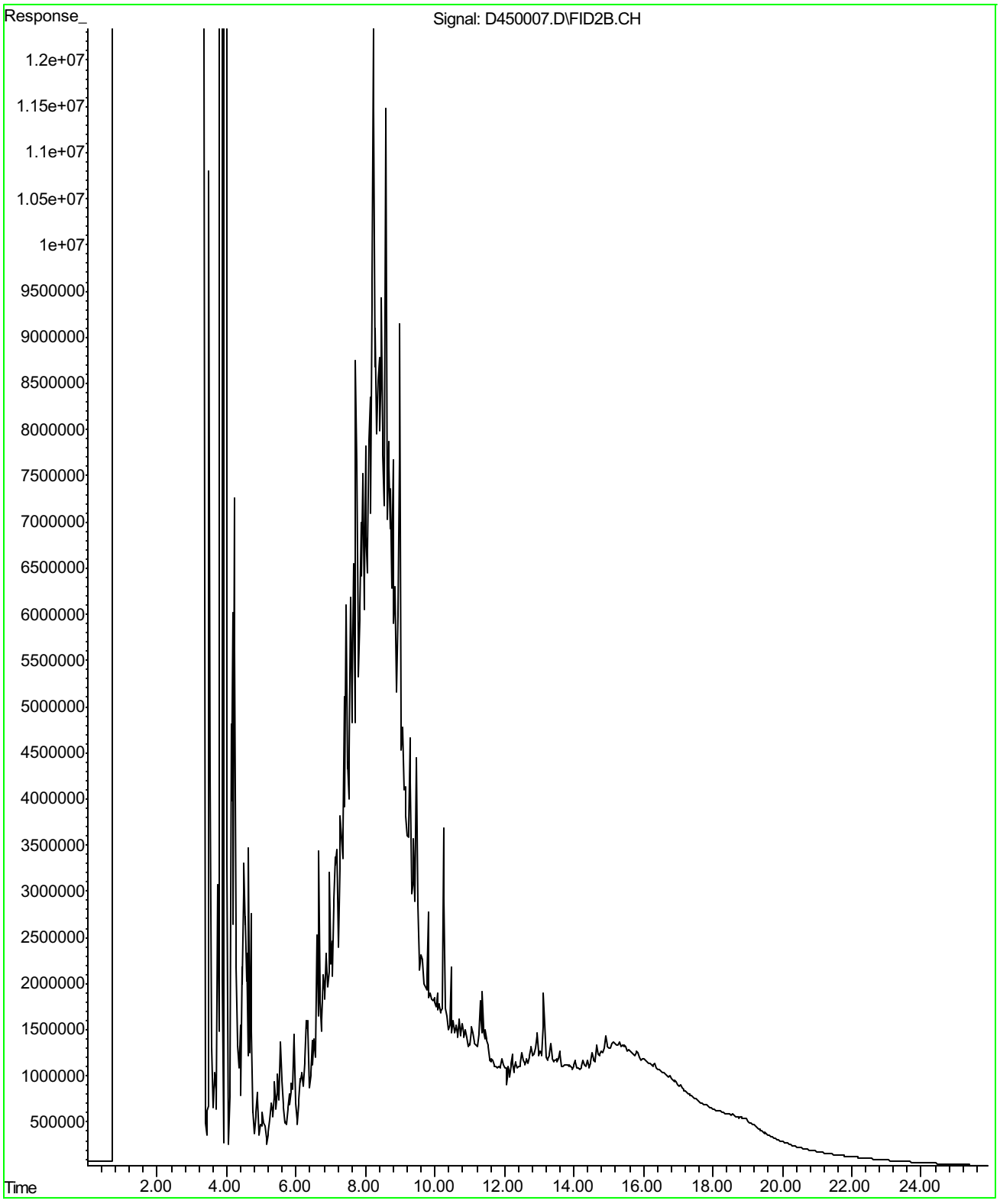
KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

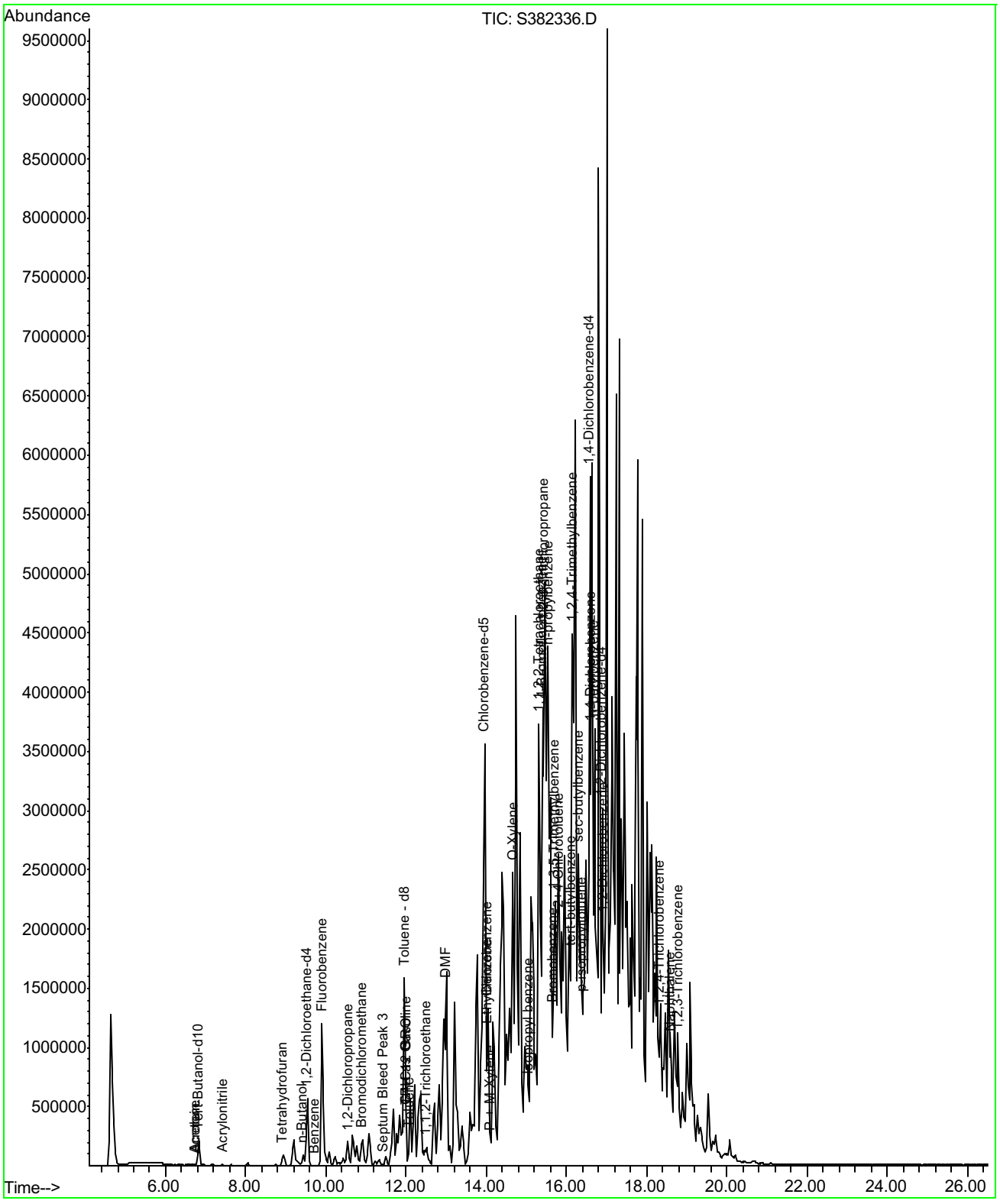
Sample ID : 58484-01 (Water-1)
Date Analyzed : 09/18/07
Data File : S382366
Analysis Method : EPA 8260B



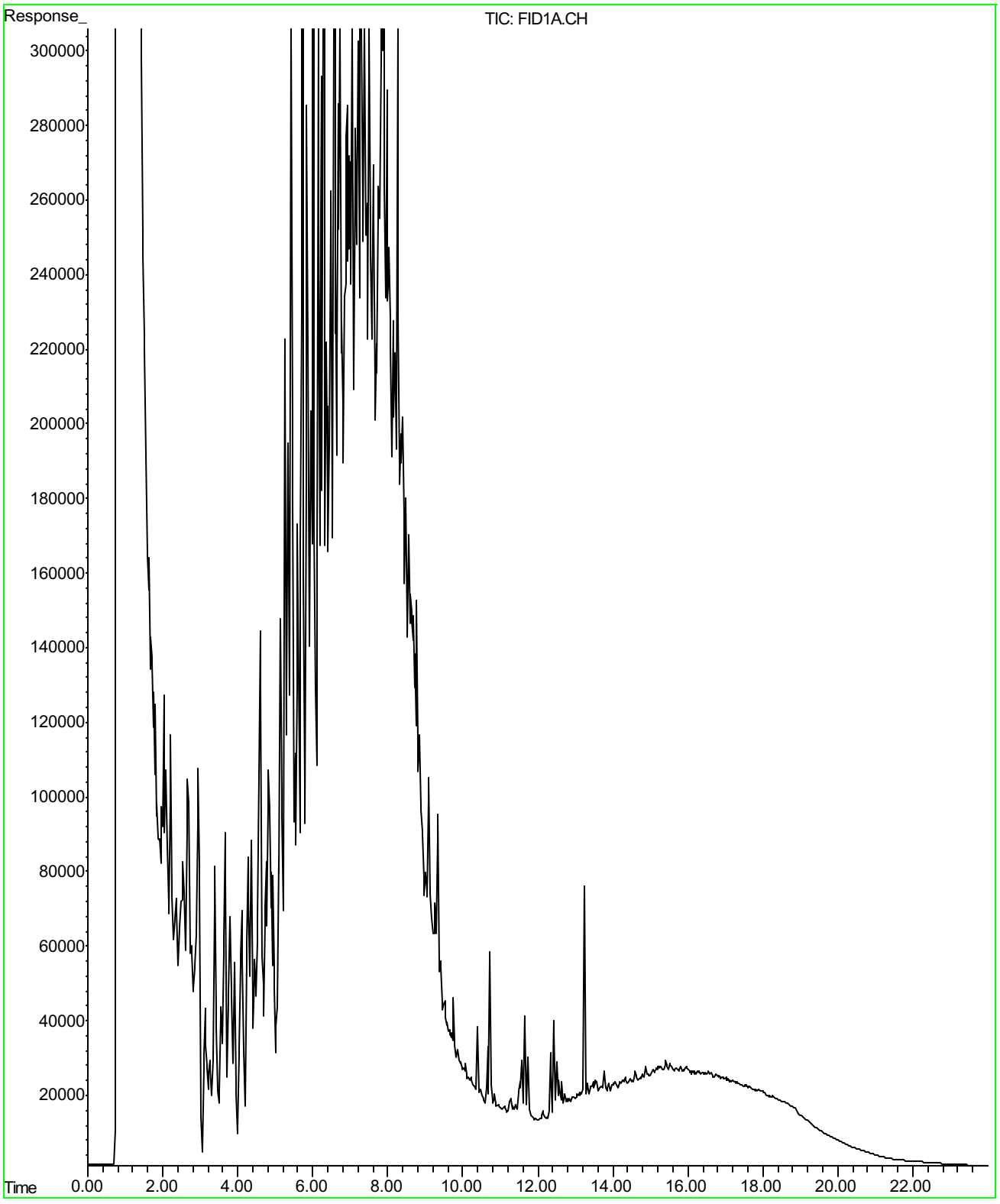
Sample ID : 58484-01 (Water-1)
Date Analyzed : 09/21/07
Data File : D450007
Analysis Method : M EPA 8015



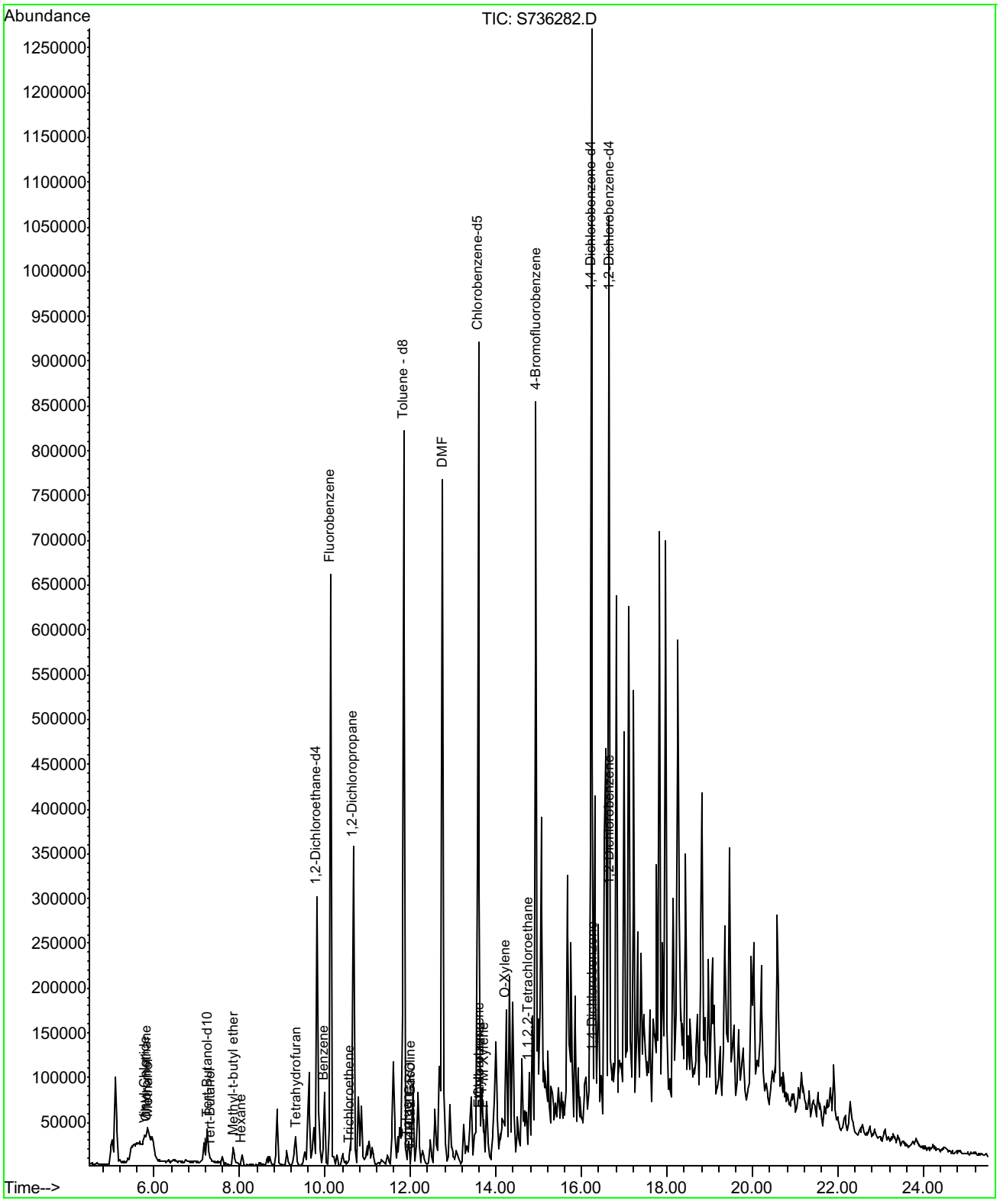
Sample ID : 58484-02 (SW1-4.5)
Date Analyzed : 09/18/07
Data File : S382336
Analysis Method : EPA 8260B



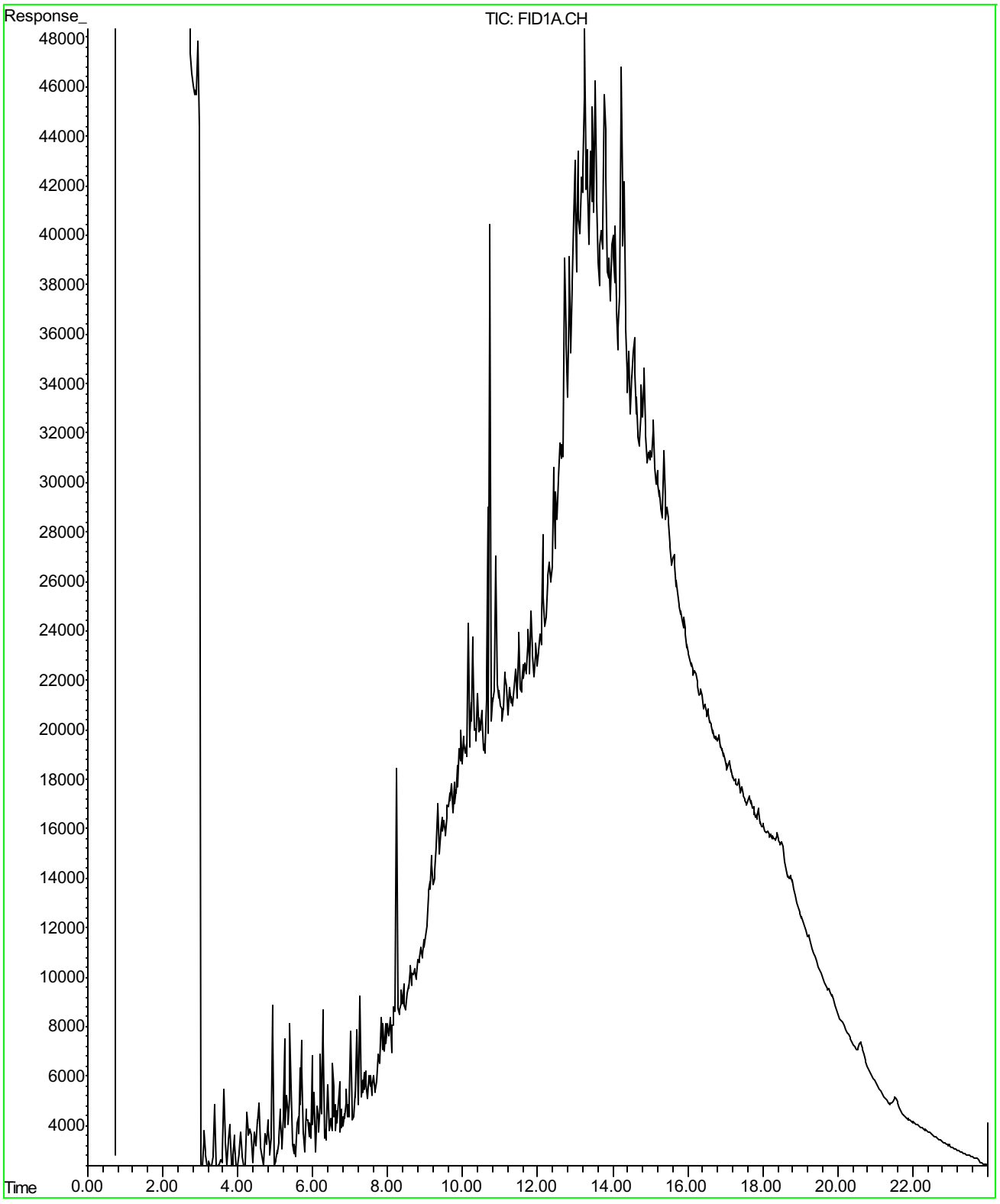
Sample ID : 58484-02 (SW1-4.5)
Date Analyzed : 09/21/07
Data File : D173596
Analysis Method : M EPA 8015



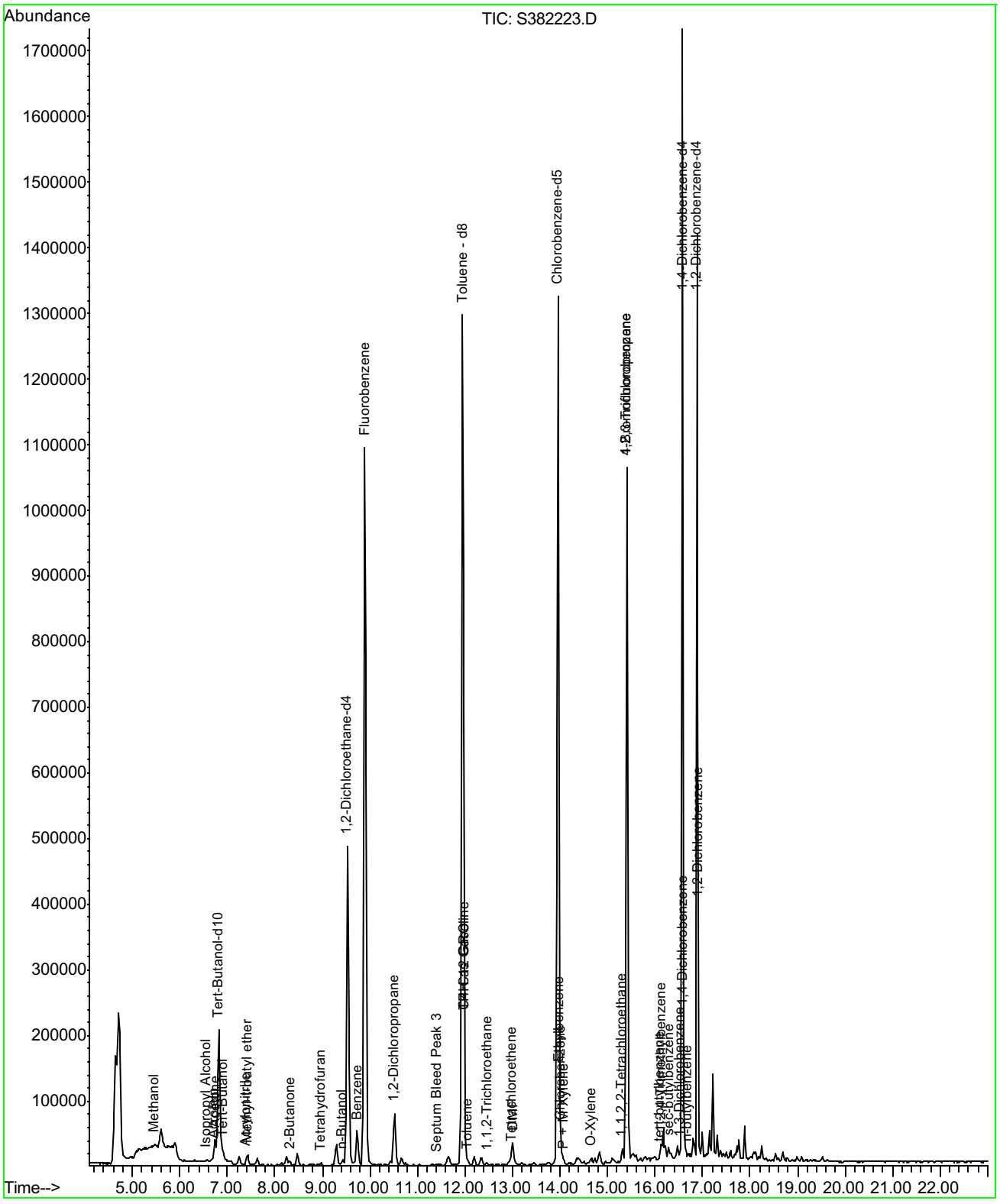
Sample ID : 58484-03 (SW2-4.5)
Date Analyzed : 09/15/07
Data File : S736282
Analysis Method : EPA 8260B



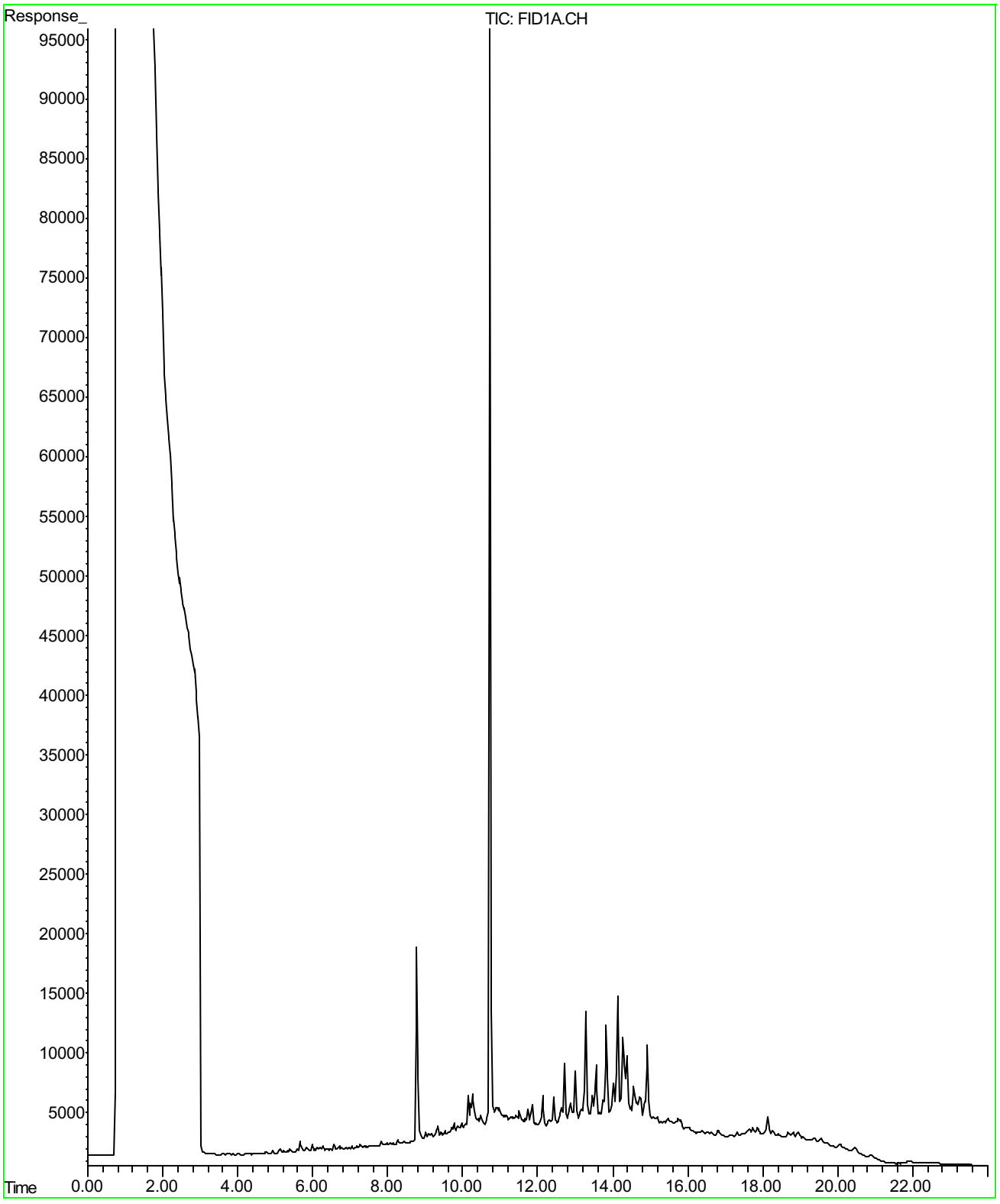
Sample ID : 58484-03 (SW2-4.5)
Date Analyzed : 09/18/07
Data File : D173456
Analysis Method : M EPA 8015



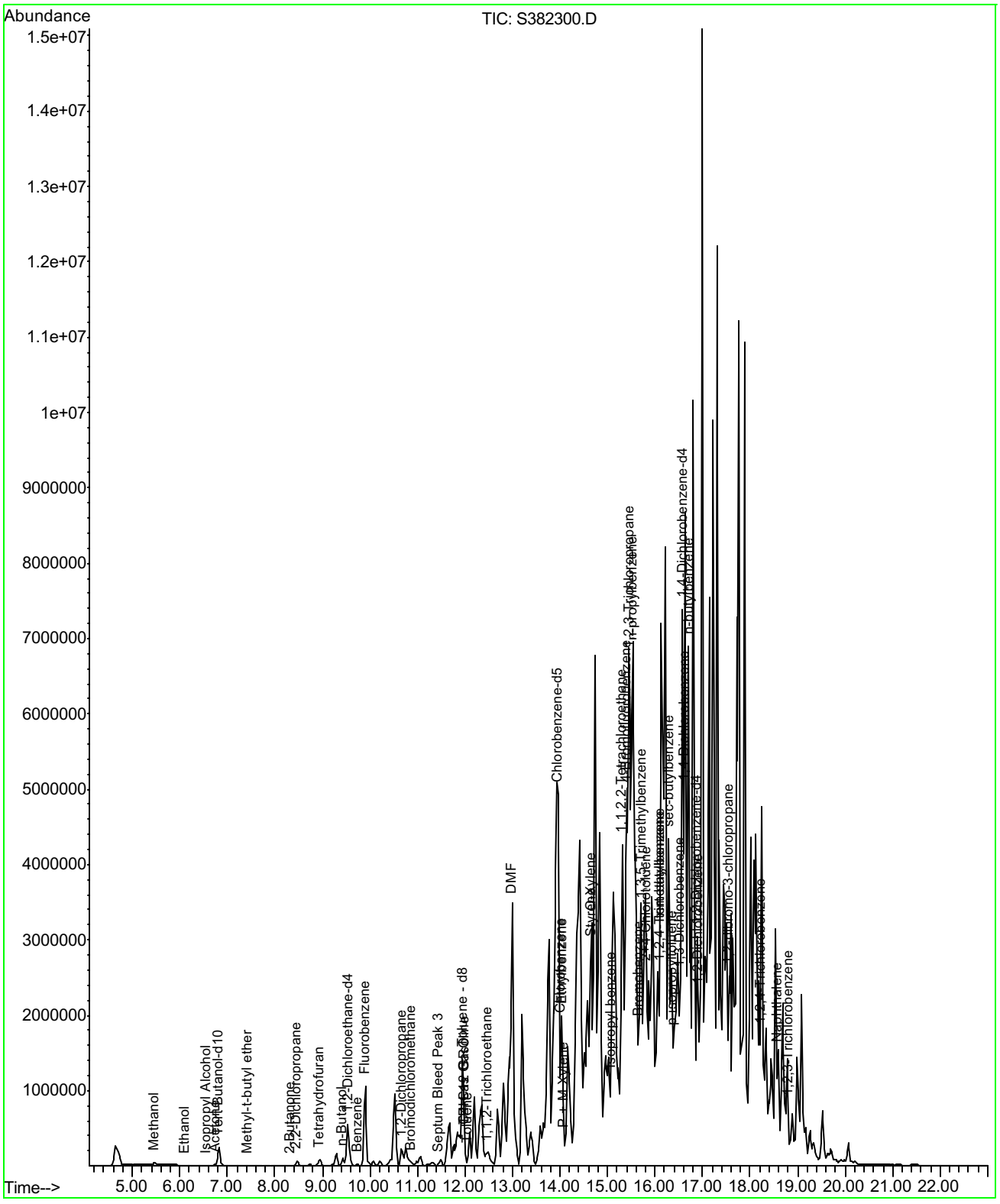
Sample ID : 58484-04 (SW3-4.5)
Date Analyzed : 09/14/07
Data File : S382223
Analysis Method : EPA 8260B



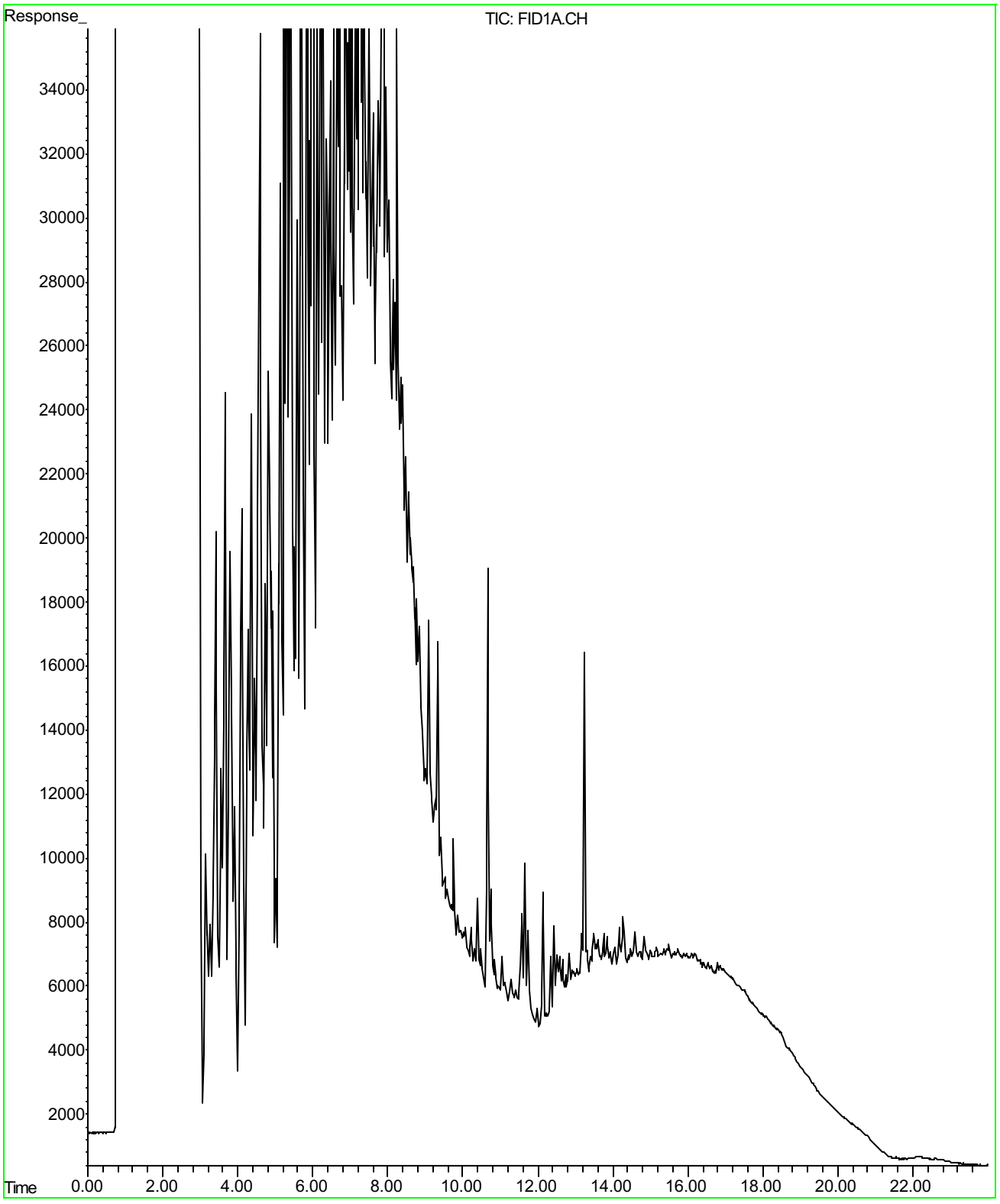
Sample ID : 58484-04 (SW3-4.5)
Date Analyzed : 09/17/07
Data File : D173440
Analysis Method : M EPA 8015



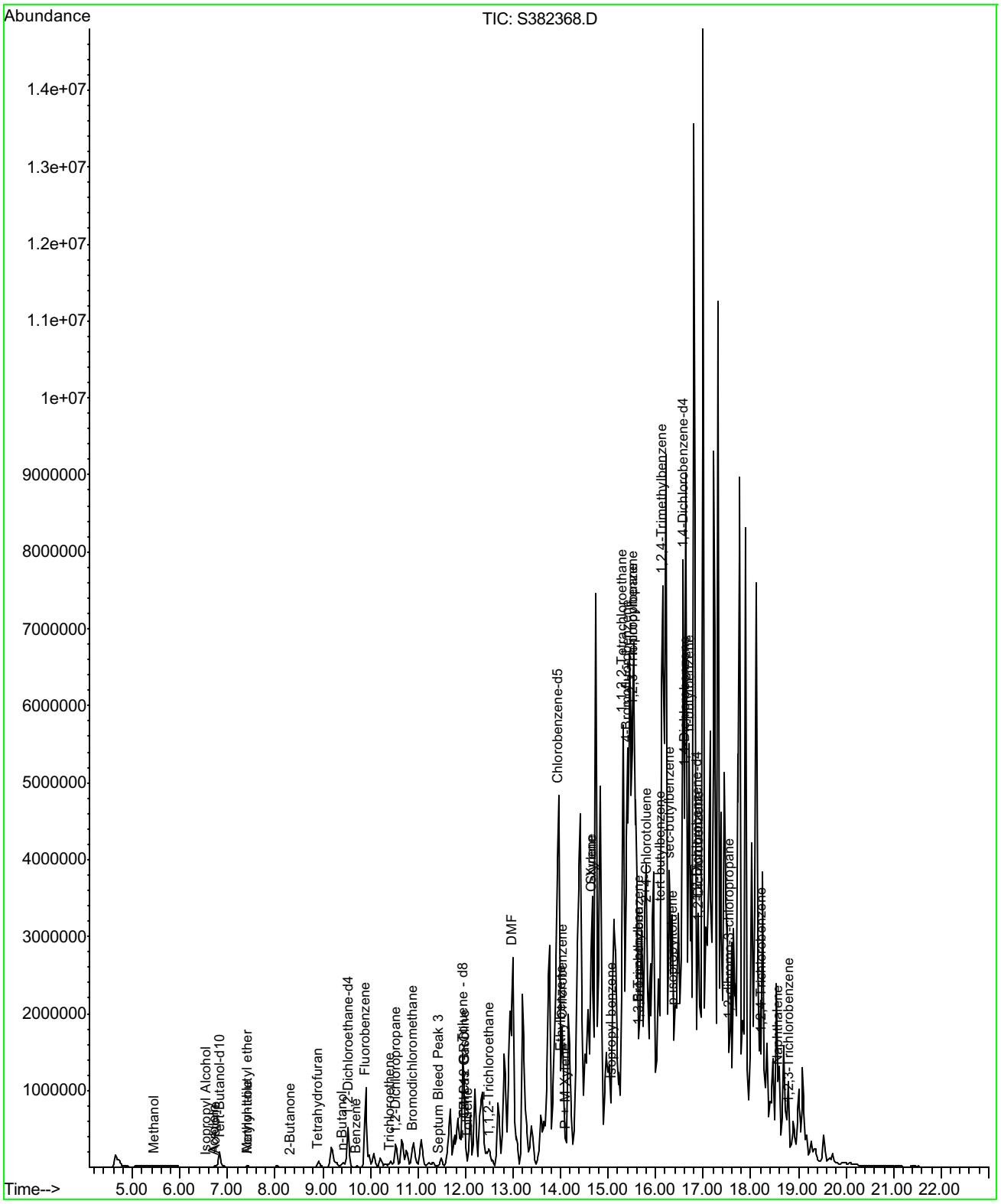
Sample ID : 58484-05 (SW4-4.5)
Date Analyzed : 09/16/07
Data File : S382300
Analysis Method : EPA 8260B



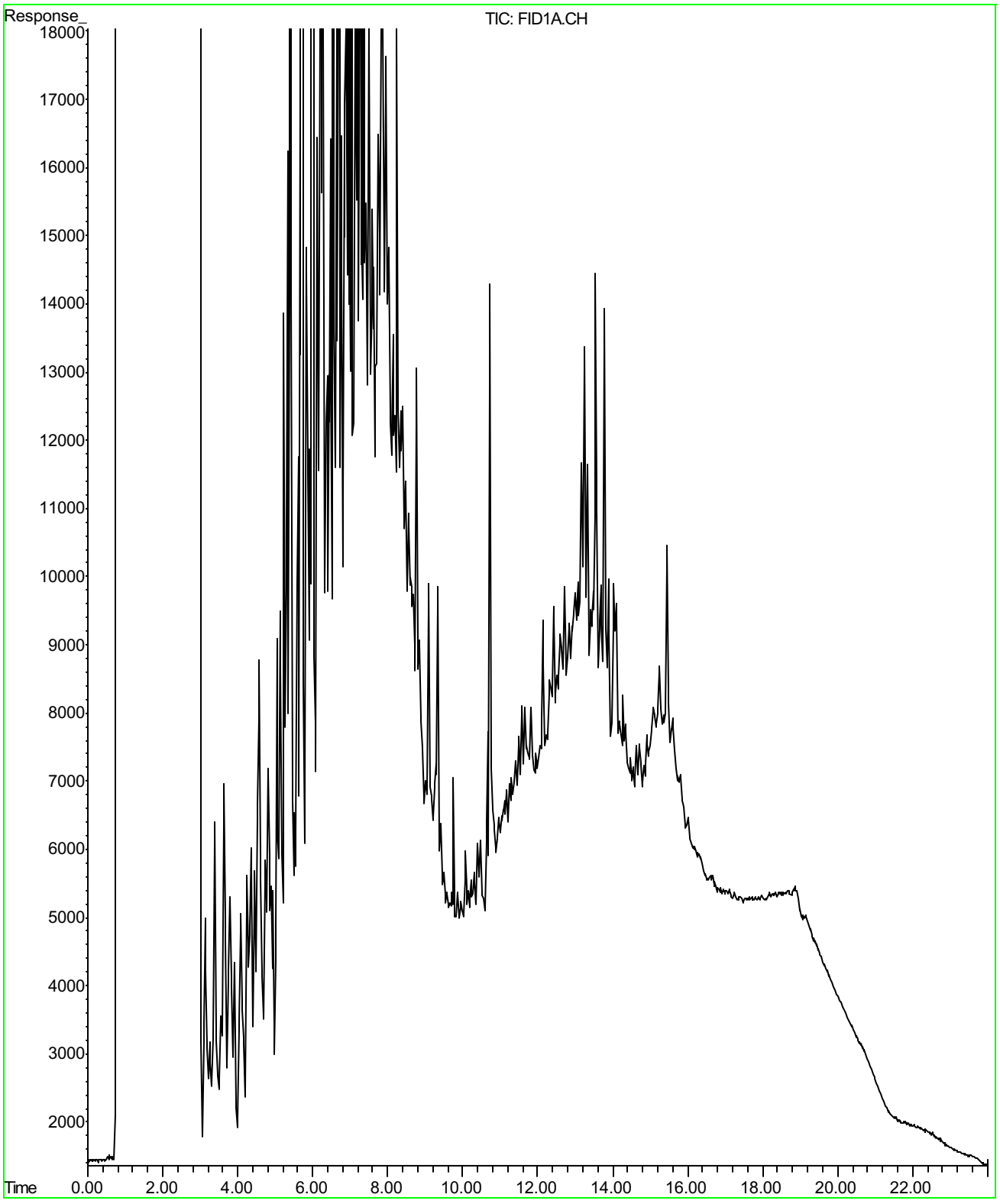
Sample ID : 58484-05 (SW4-4.5)
Date Analyzed : 09/19/07
Data File : D173517
Analysis Method : M EPA 8015



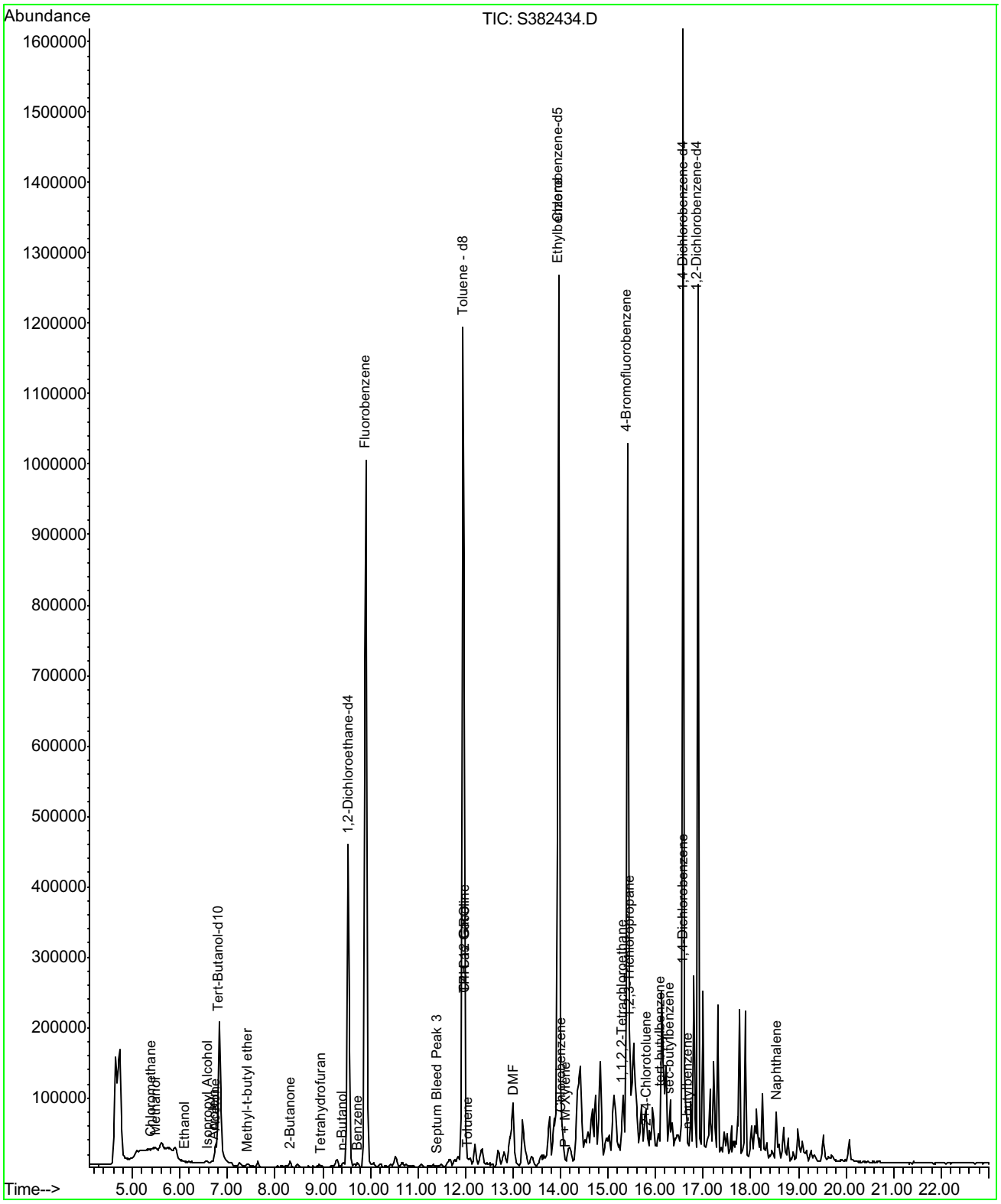
Sample ID : 58484-06 (SW5-4.5)
Date Analyzed : 09/18/07
Data File : S382368
Analysis Method : EPA 8260B



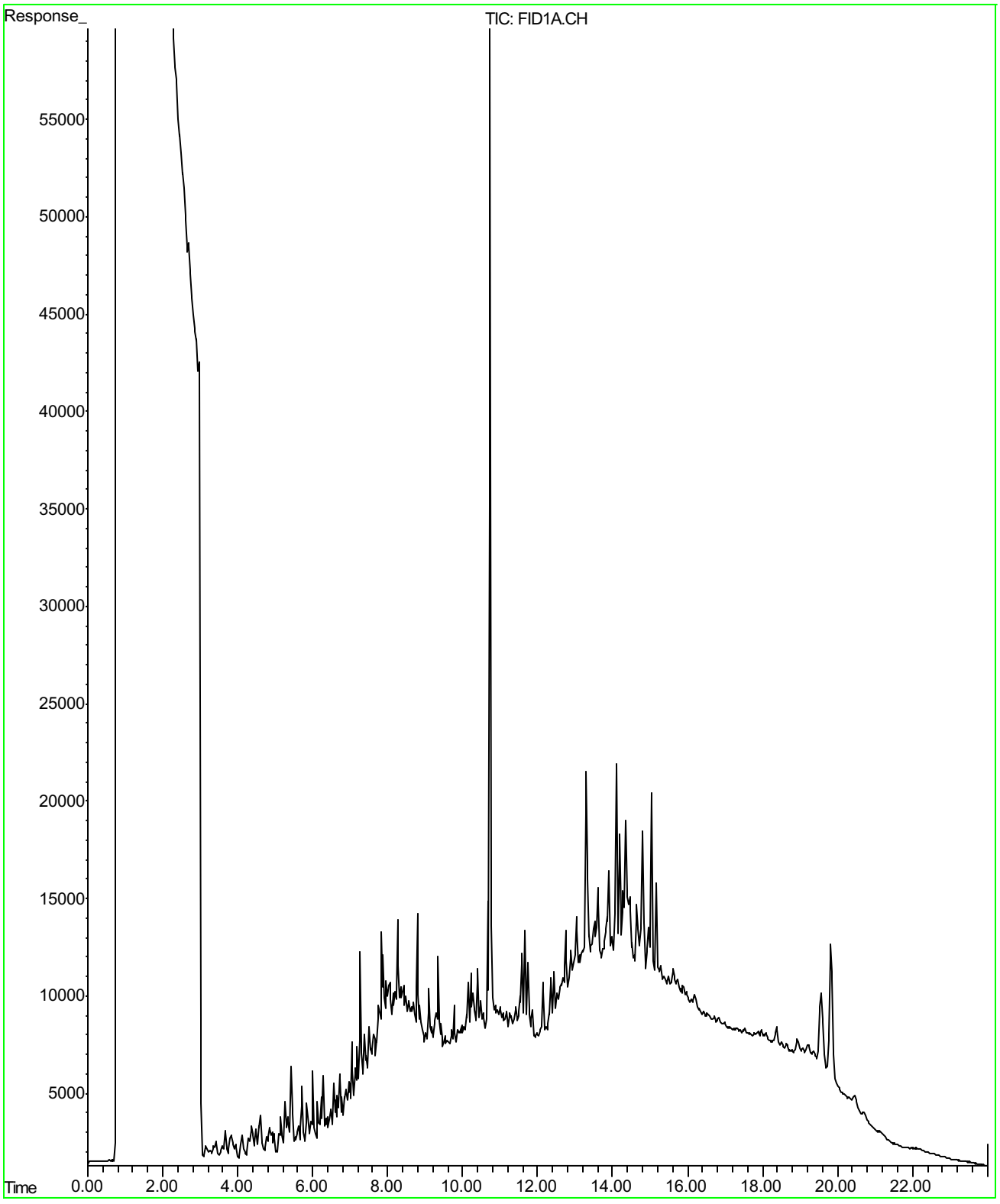
Sample ID : 58484-06 (SW5-4.5)
Date Analyzed : 09/18/07
Data File : D173458
Analysis Method : M EPA 8015



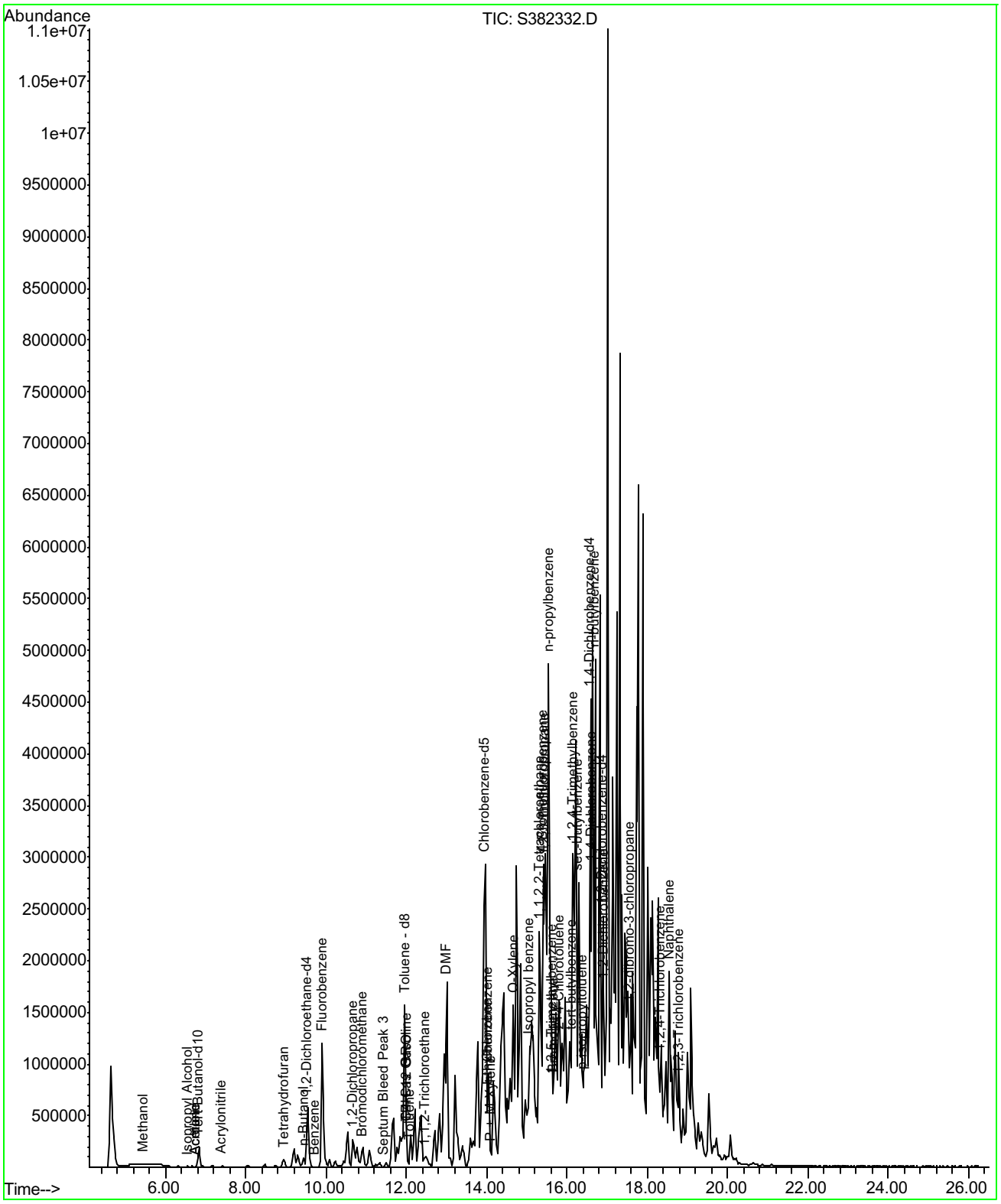
Sample ID : 58484-07 (SW6-4.5)
Date Analyzed : 09/20/07
Data File : S382434
Analysis Method : EPA 8260B



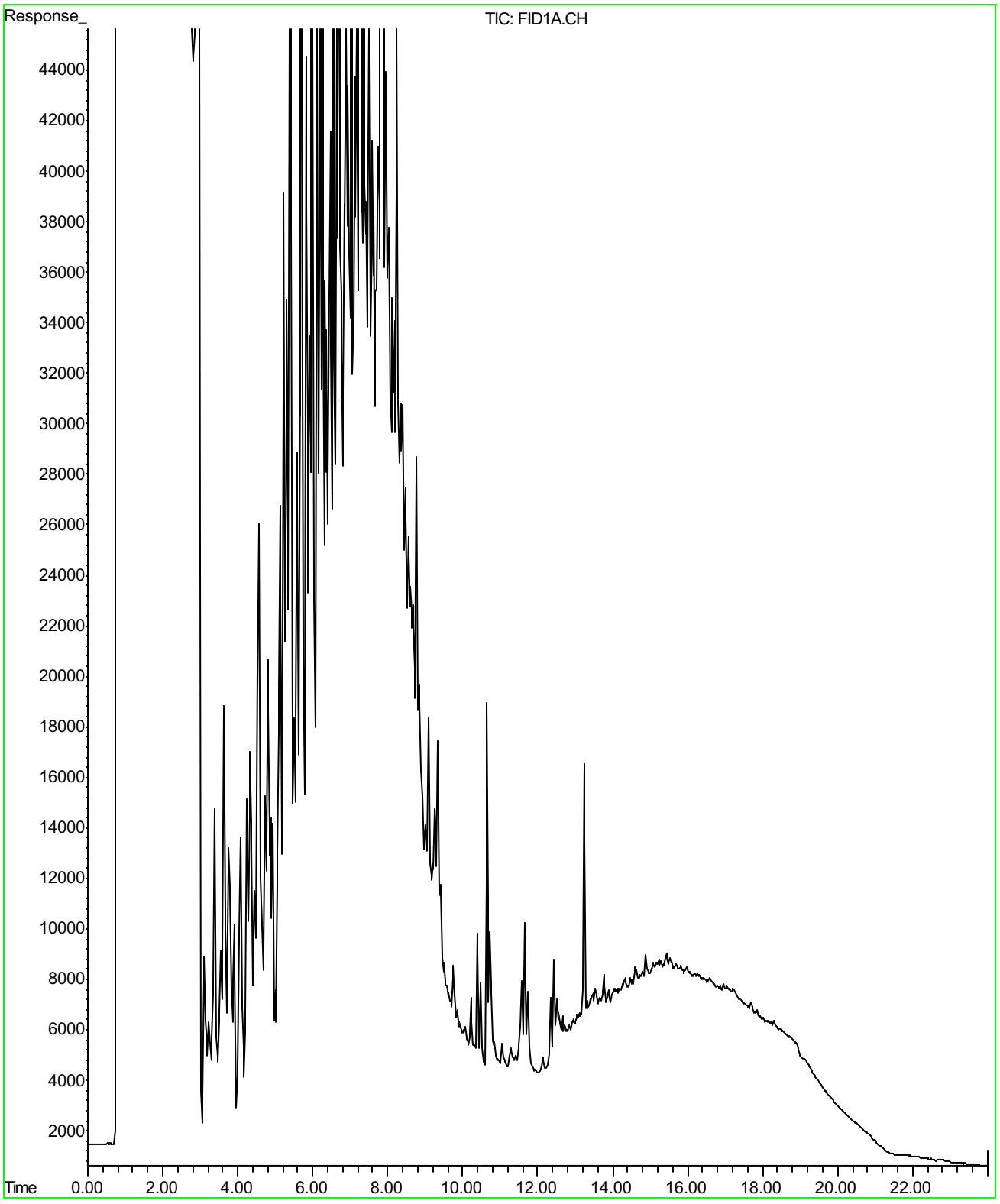
Sample ID : 58484-07 (SW6-4.5)
Date Analyzed : 09/18/07
Data File : D173464
Analysis Method : M EPA 8015



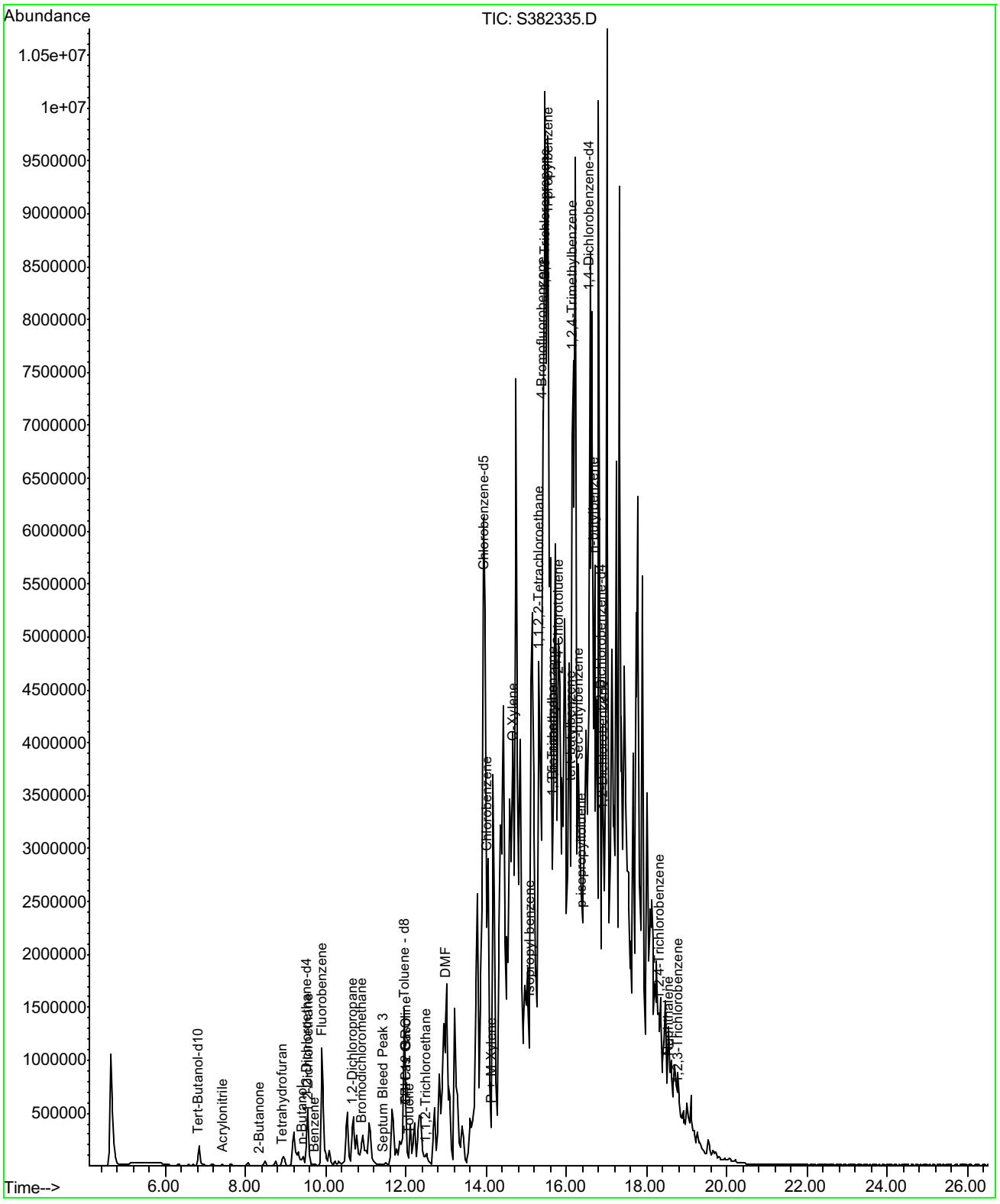
Sample ID : 58484-08 (SW7-4.5)
Date Analyzed : 09/18/07
Data File : S382332
Analysis Method : EPA 8260B



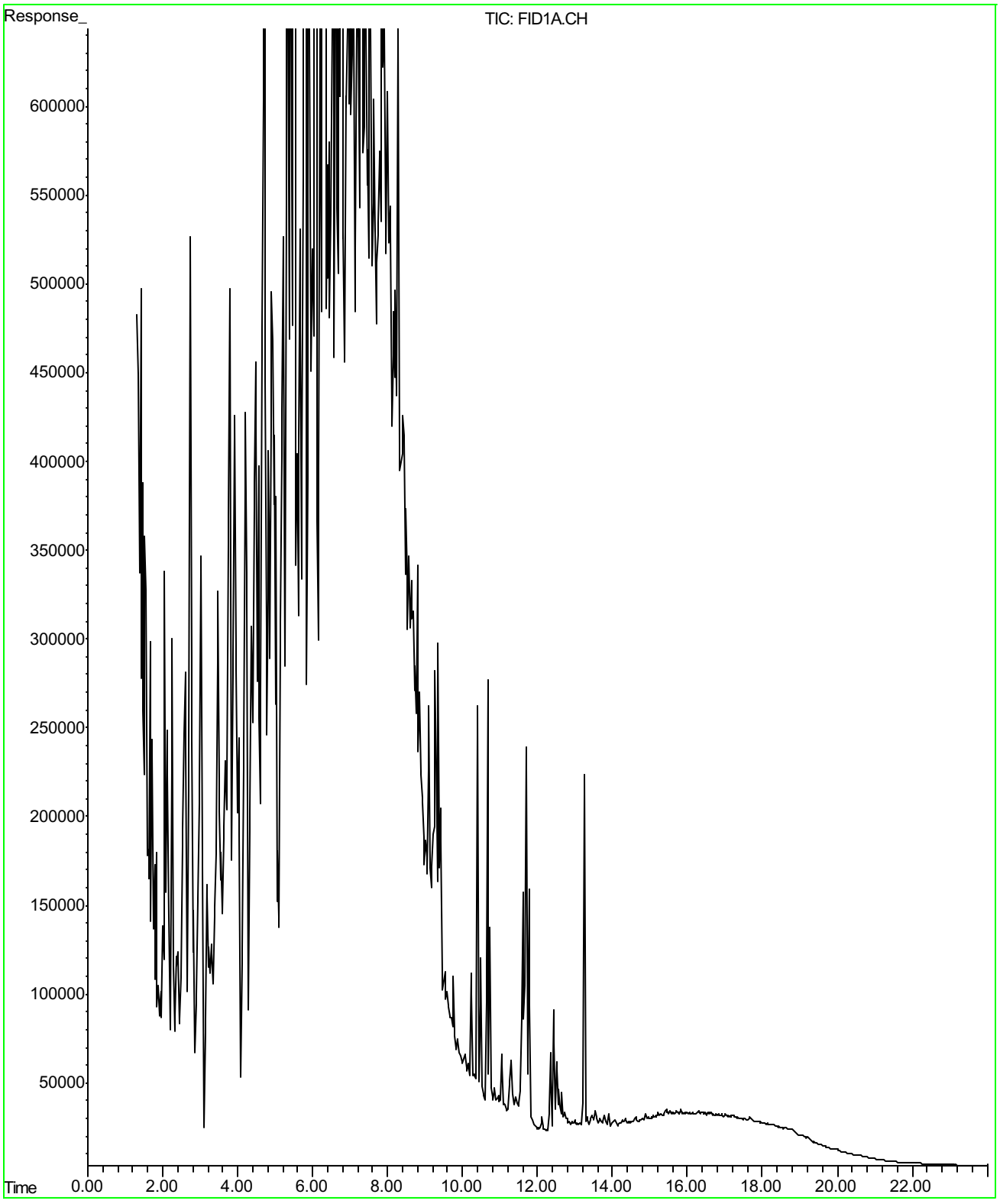
Sample ID : 58484-08 (SW7-4.5)
Date Analyzed : 09/21/07
Data File : D173594
Analysis Method : M EPA 8015



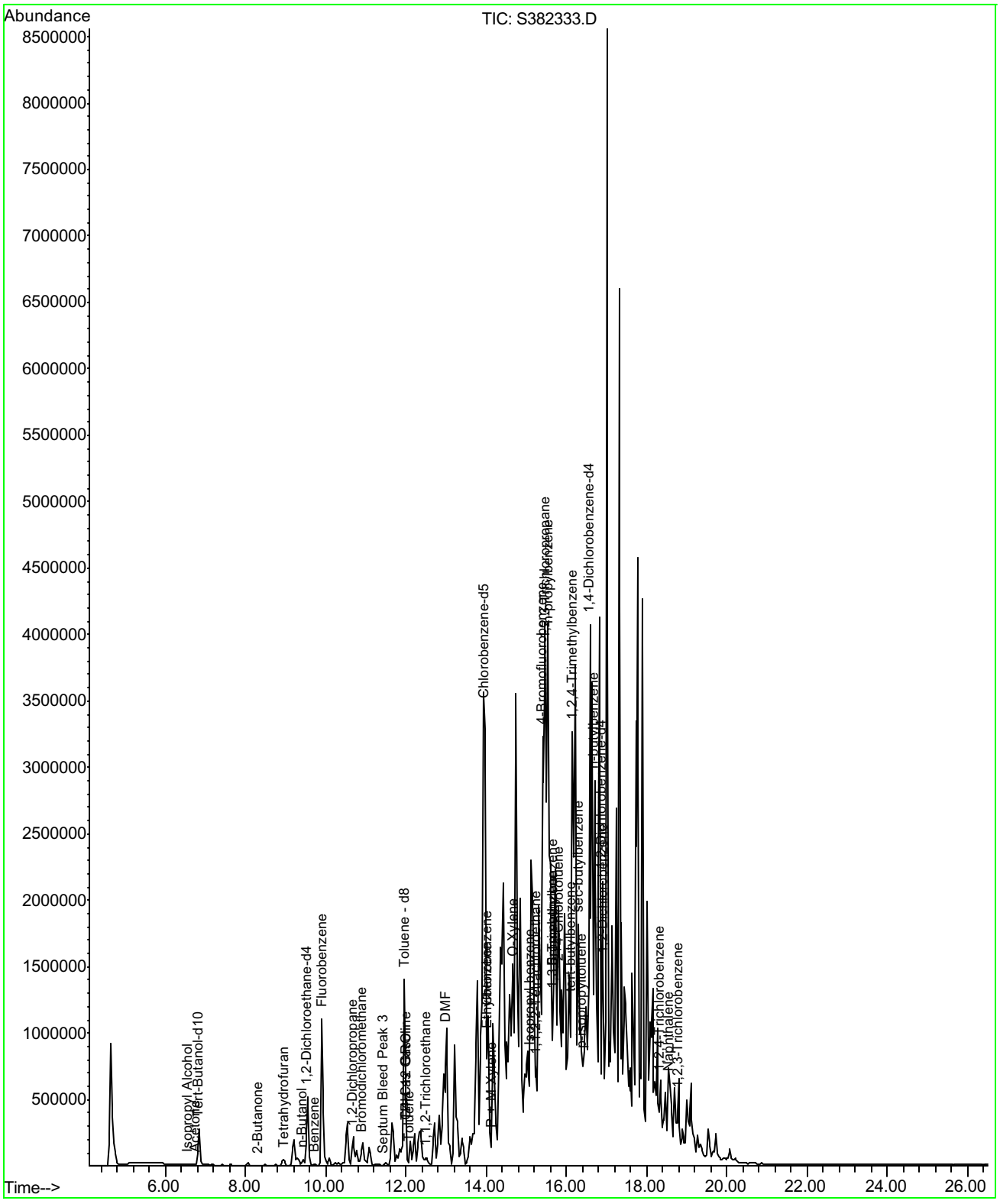
Sample ID : 58484-09 (SW8-4.5)
Date Analyzed : 09/18/07
Data File : S382335
Analysis Method : EPA 8260B



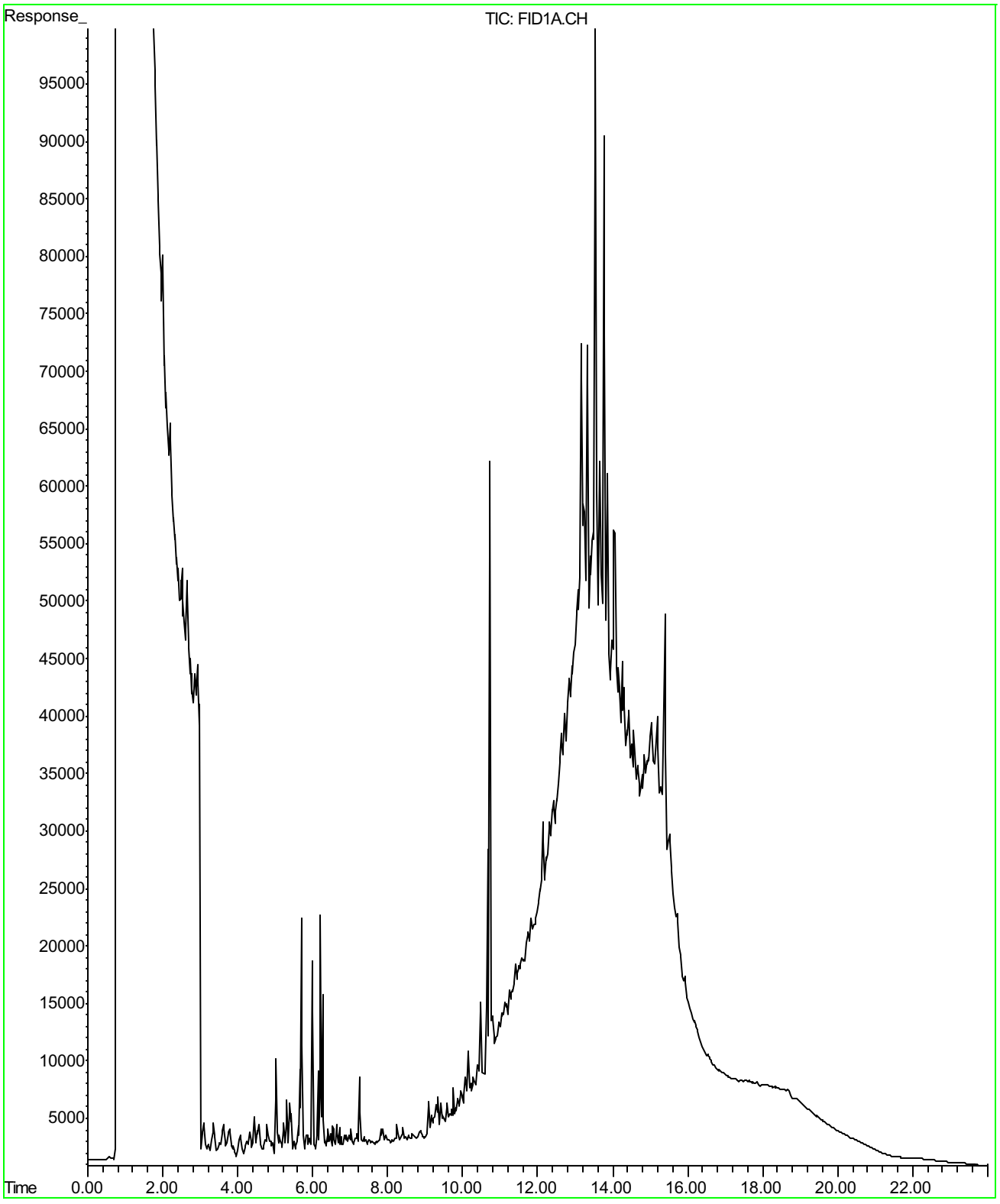
Sample ID : 58484-09 (SW8-4.5)
Date Analyzed : 09/20/07
Data File : D173547
Analysis Method : M EPA 8015



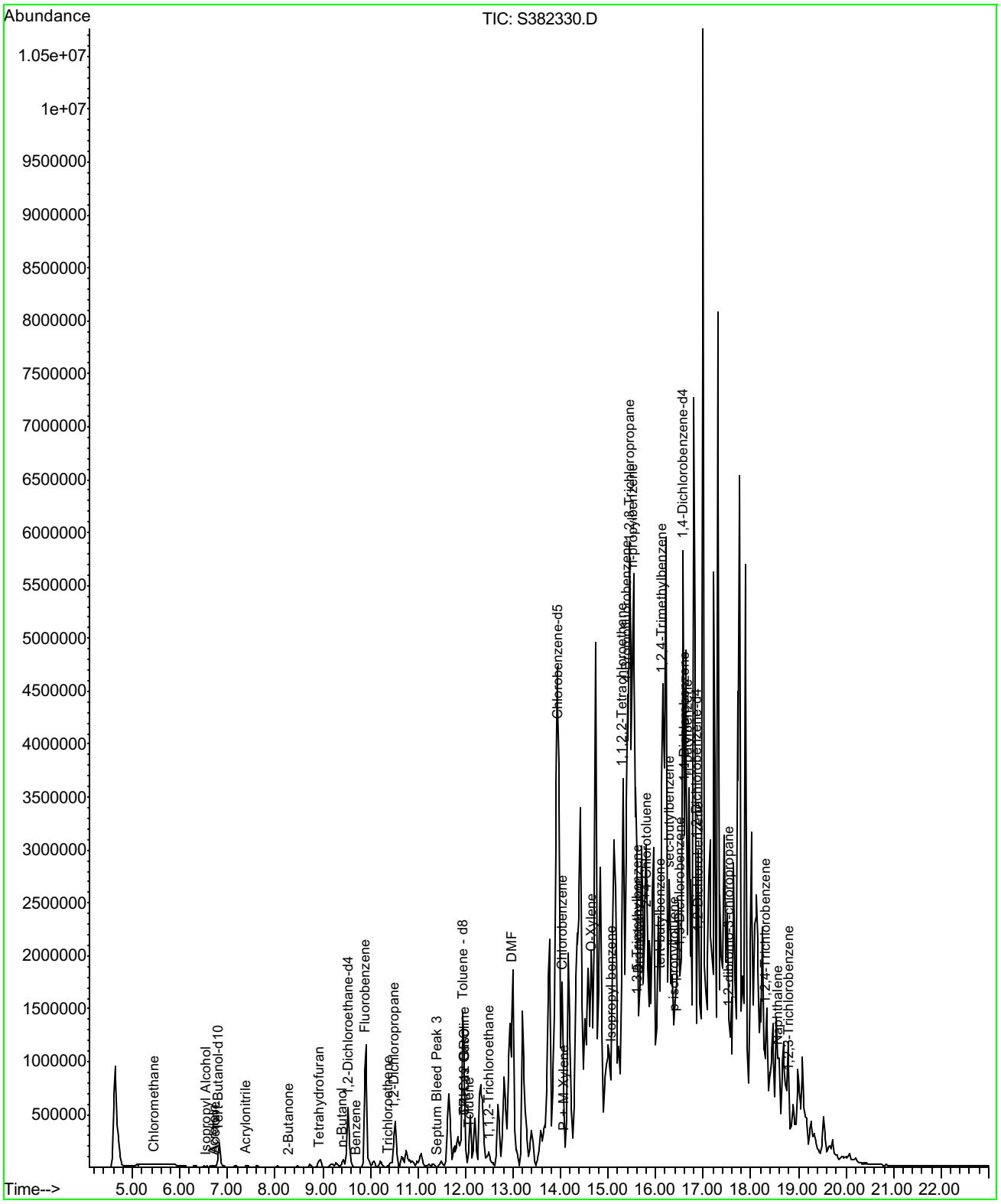
Sample ID : 58484-10 (SW9-4.5)
Date Analyzed : 09/18/07
Data File : S382333
Analysis Method : EPA 8260B



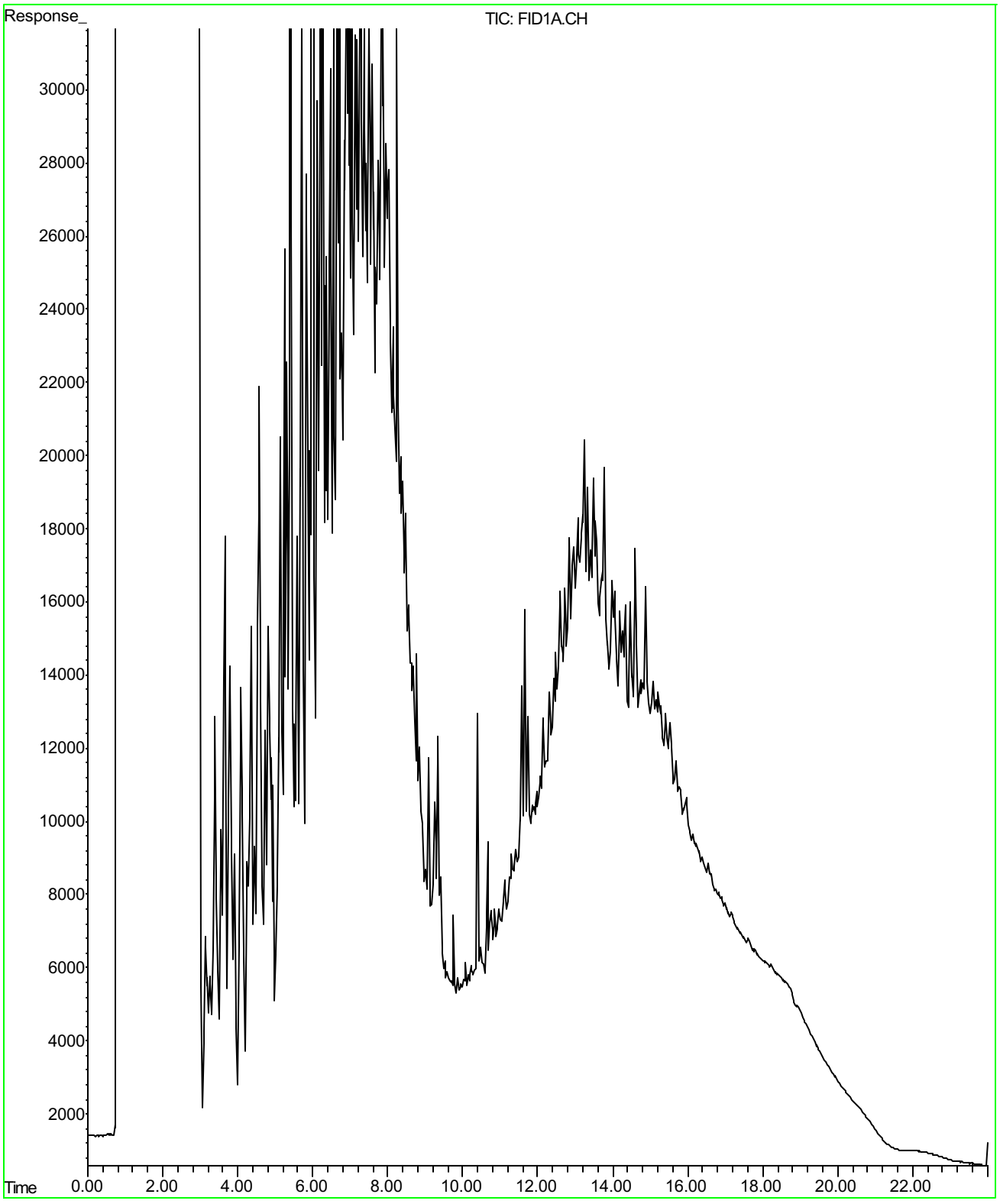
Sample ID : 58484-10 (SW9-4.5)
Date Analyzed : 09/18/07
Data File : D173490
Analysis Method : M EPA 8015



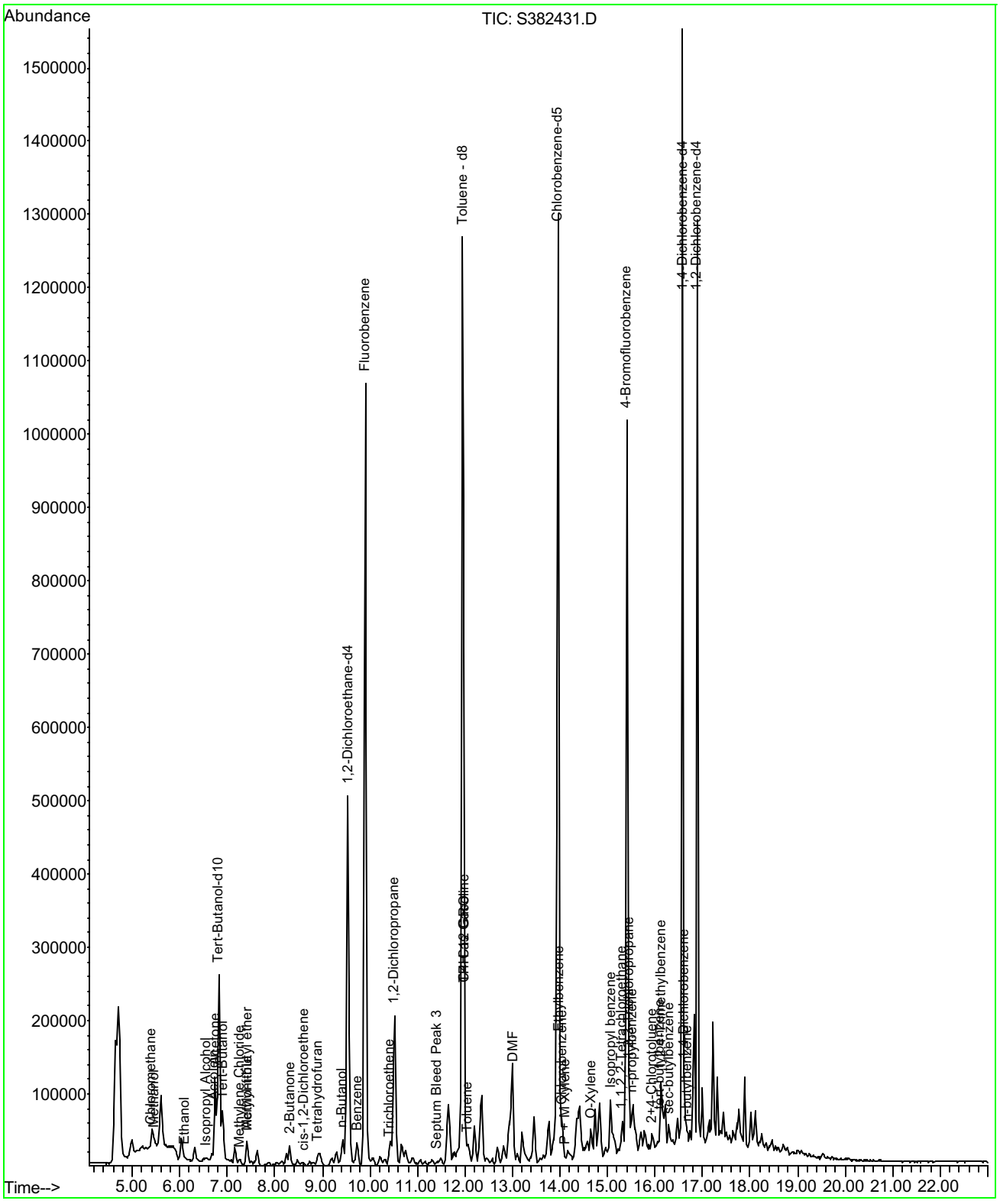
Sample ID : 58484-11 (SW10-4.5)
Date Analyzed : 09/17/07
Data File : S382330
Analysis Method : EPA 8260B



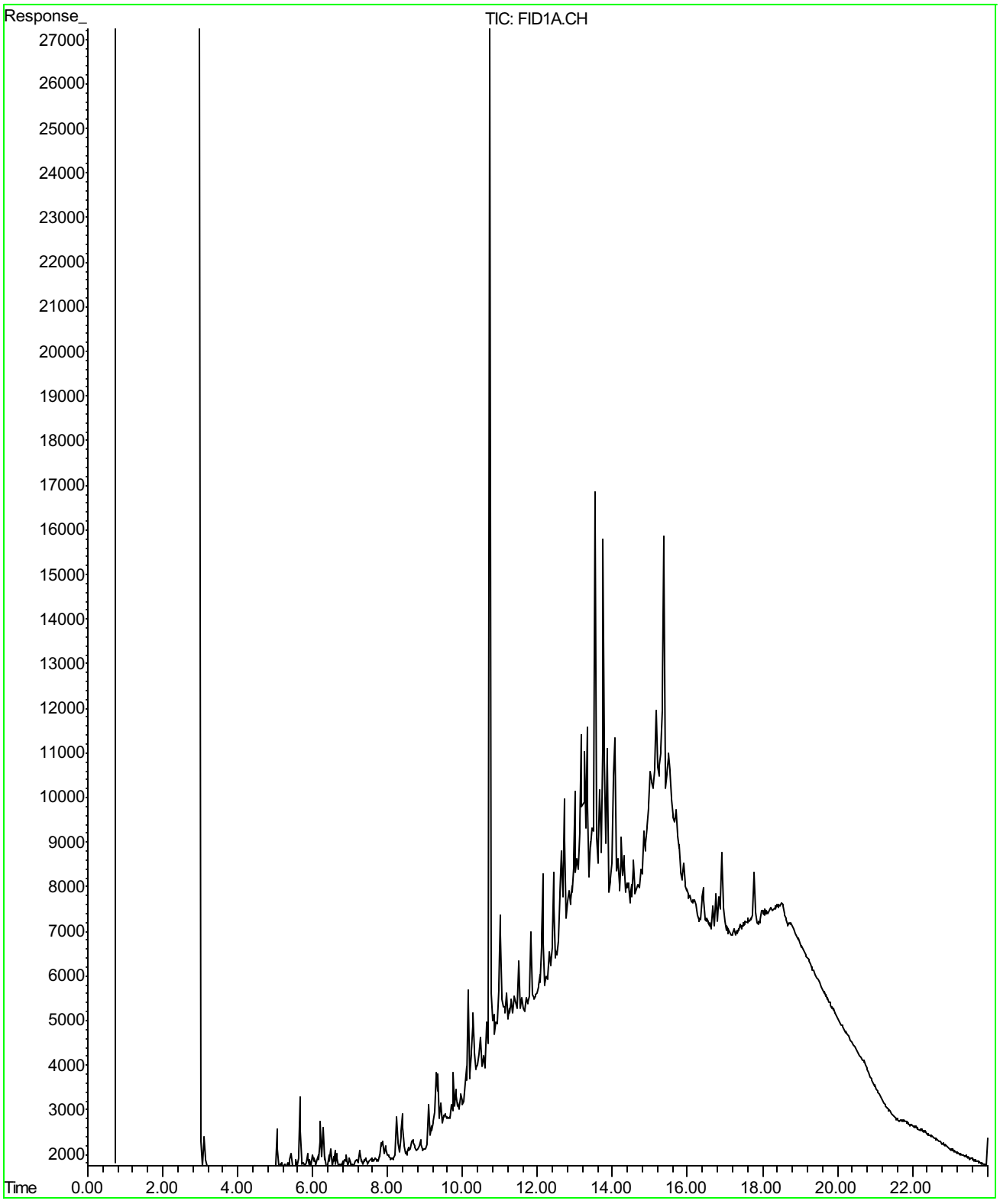
Sample ID : 58484-11 (SW10-4.5)
Date Analyzed : 09/18/07
Data File : D173487
Analysis Method : M EPA 8015



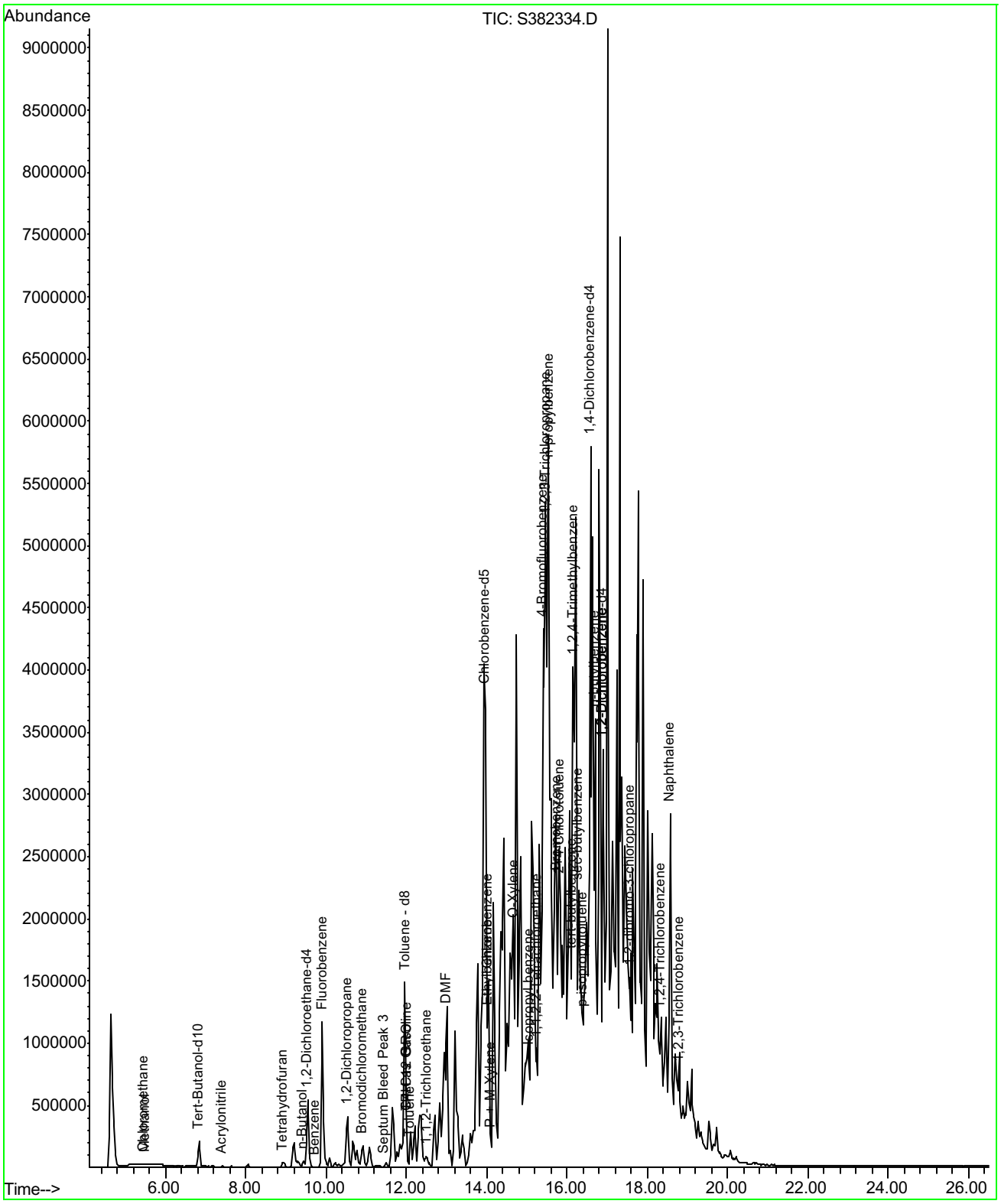
Sample ID : 58484-12 (SW11-4.5)
Date Analyzed : 09/20/07
Data File : S382431
Analysis Method : EPA 8260B



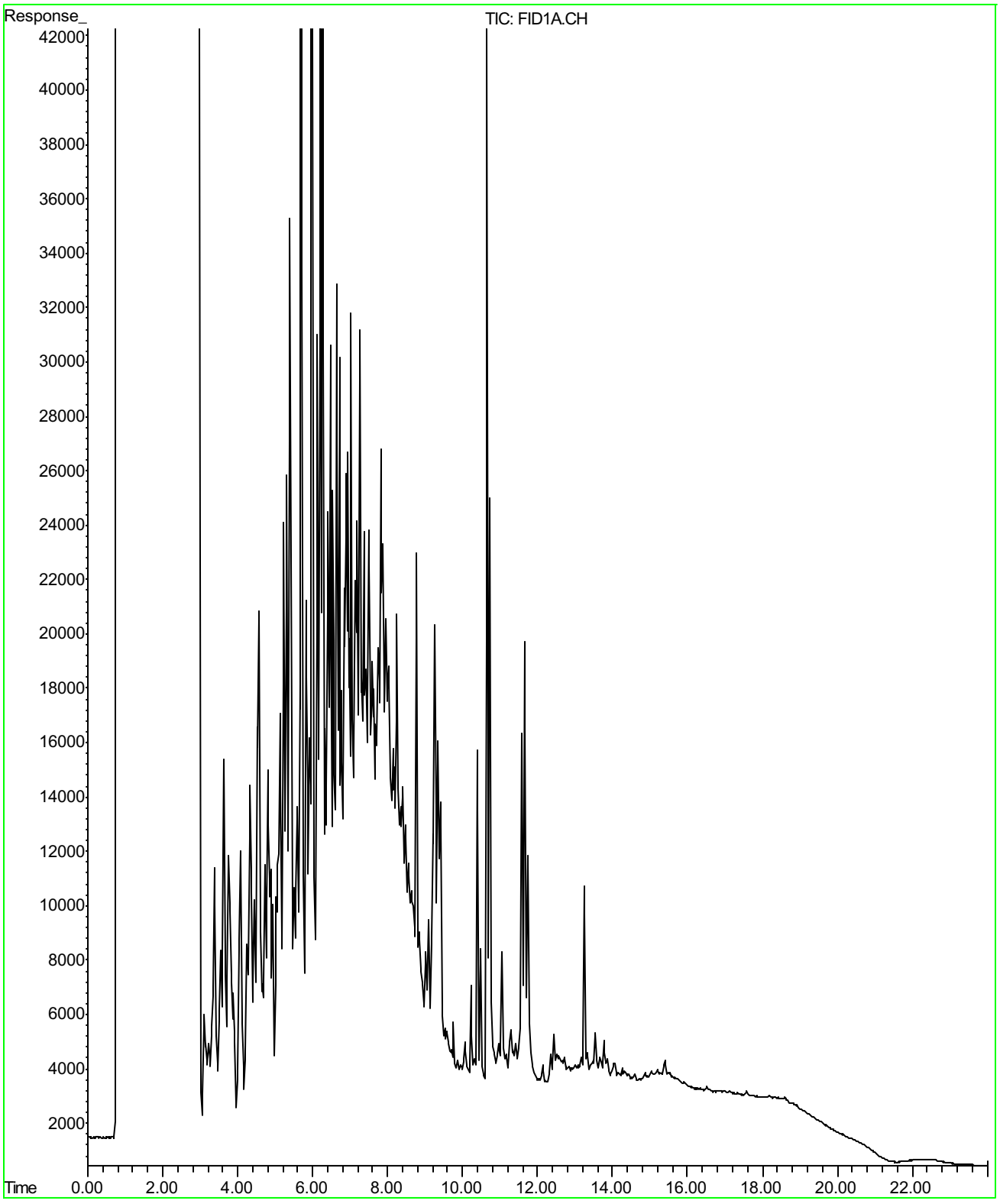
Sample ID : 58484-12 (SW11-4.5)
Date Analyzed : 09/18/07
Data File : D173457
Analysis Method : M EPA 8015



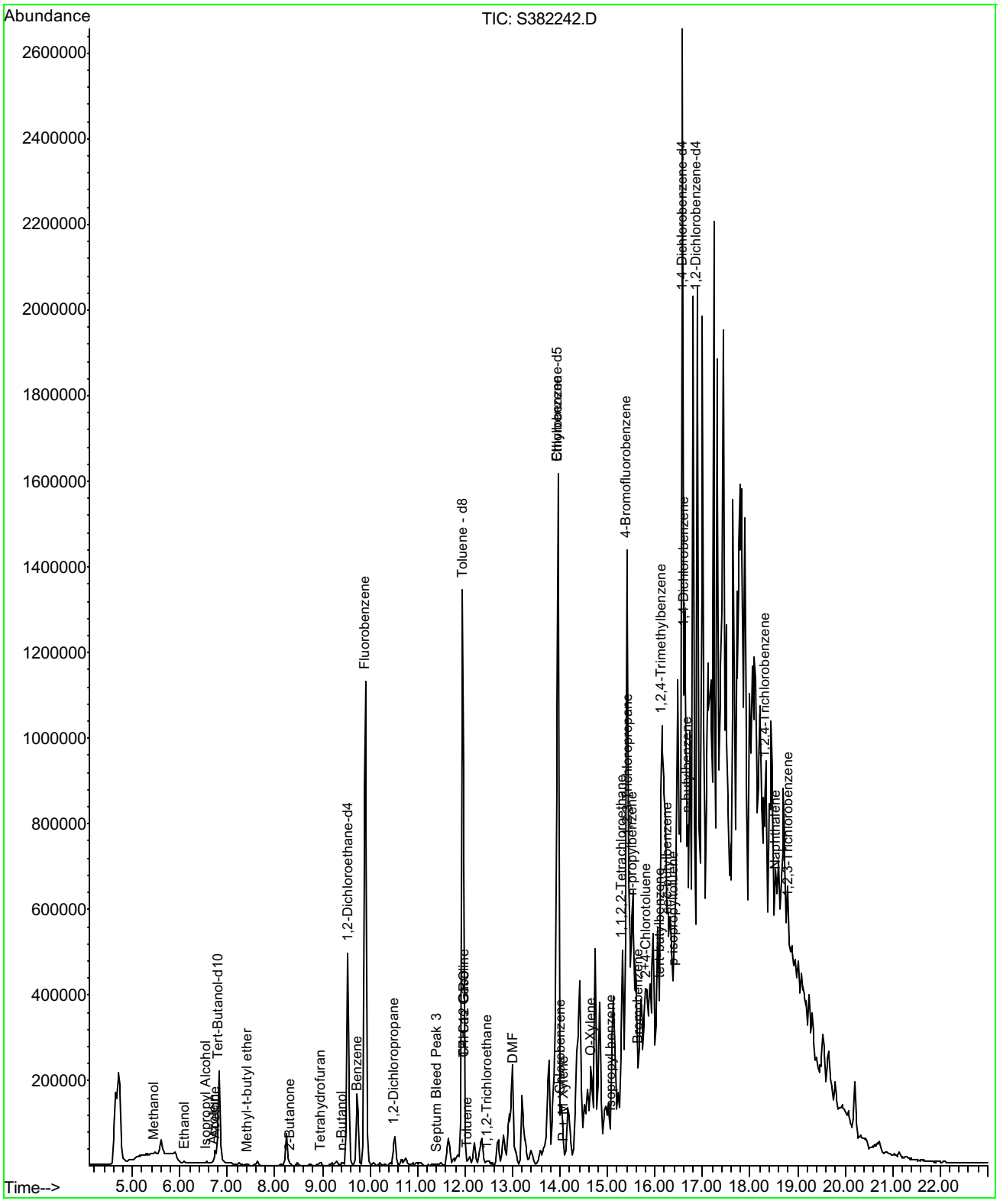
Sample ID : 58484-13 (SW12-4.5)
Date Analyzed : 09/18/07
Data File : S382334
Analysis Method : EPA 8260B



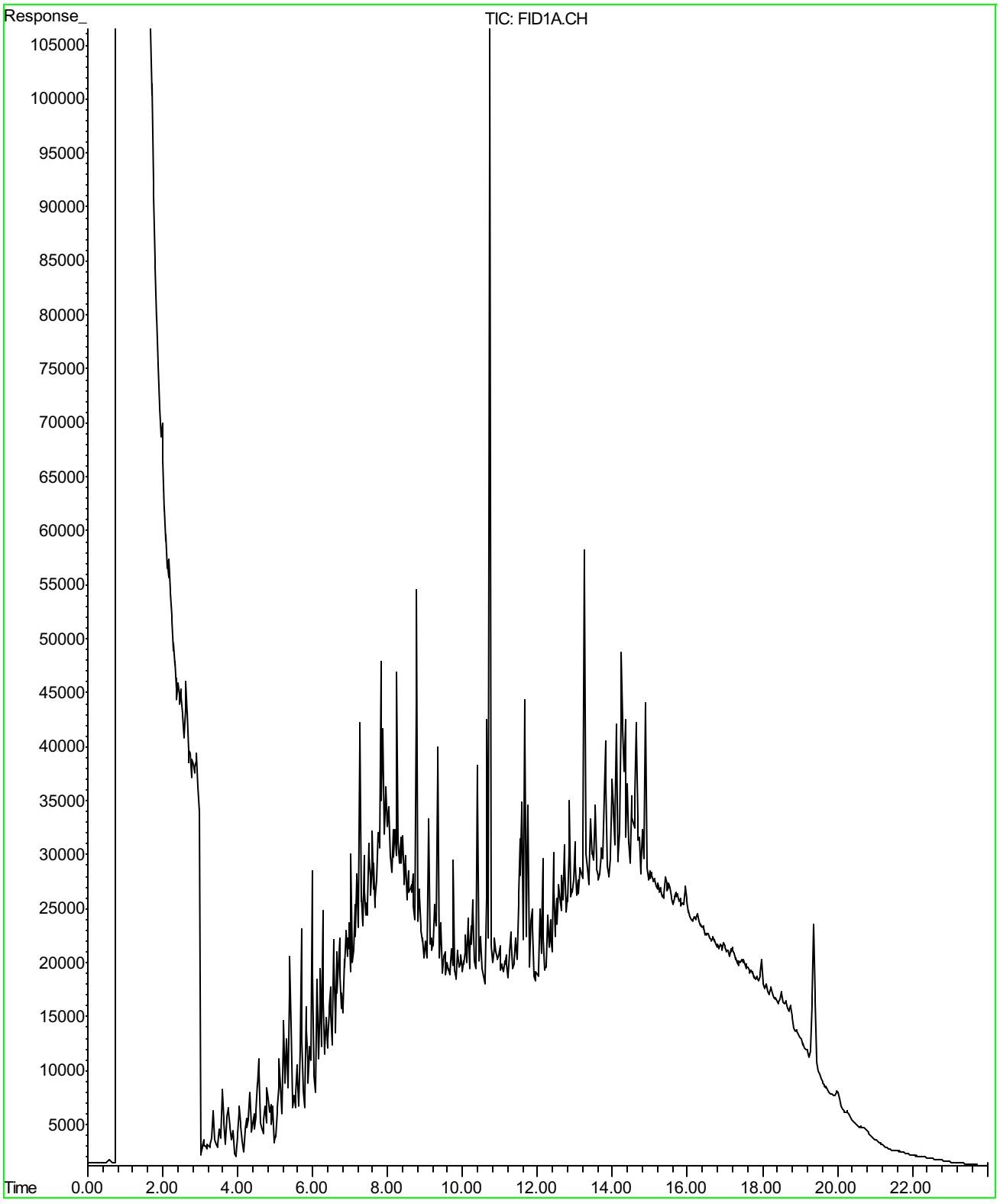
Sample ID : 58484-13 (SW12-4.5)
Date Analyzed : 09/19/07
Data File : D173519
Analysis Method : M EPA 8015



Sample ID : 58484-14 (SW13-4.5)
Date Analyzed : 09/14/07
Data File : S382242
Analysis Method : EPA 8260B



Sample ID : 58484-14 (SW13-4.5)
Date Analyzed : 09/19/07
Data File : D173526
Analysis Method : M EPA 8015



KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 58484 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Geoffrey D. Risse
Company/Address: Gettler-Ryan Rancho Cordova
Phone No.: 916-631-1300 FAX No.: 916-631-1317
Project Number: 25-948218.5 P.O. No:
Project Name: Rolls-Royce Engine Test Facility
Project Address: 6701 Old Earhart Oakland CA

California EDF Report? [X] Yes [ ] No

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address): grisse@grinc.com
Sampler Signature: [signature]

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015) w/ Silica Gel Cleanup	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	Naphthalene (8260B)	TPH Jet Fuel (M8015)	TAT 12 hr/24 hr/48 hr/72 hr/(1 wk)	For Lab Use Only
Water-1	9/13/07	1030	7		X				X				X	X	X									X	X	X	01
SW1-4.5	↓	1114		1			X			X			X	X	X									X	X	X	02
SW2-4.5	↓	1118		1			X			X			X	X	X									X	X	X	03
SW3-4.5	↓	1122		1			X			X			X	X	X									X	X	X	04
SW4-4.5	↓	1127		1			X			X			X	X	X									X	X	X	05
SW5-4.5	↓	1132		1			X			X			X	X	X									X	X	X	06
SW6-4.5	↓	1143		1			X			X			X	X	X									X	X	X	07
SW7-4.5	↓	1148		1			X			X			X	X	X									X	X	X	08
SW8-4.5	↓	1152		1			X			X			X	X	X									X	X	X	09
SW9-4.5	↓	1156		1			X			X			X	X	X									X	X	X	10

Relinquished by:	Date	Time	Received by:	Remarks:
[signature]	9/13/07	1452		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	091307	1455	[signature] Kiff Analytical	

Sample Receipt
Temp °C 8.4 Therm. ID# IR5
Initial [initials]
Date 091307 Time 1450
Coolant present: (Yes) / No

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 58484

Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Geoffrey D. Risse	California EDF Report? ☒ Yes ☐ No
Company / Address: Getter-Ryan Rancho Cordova	Sampling Company Log Code:
Phone #: 916-631-1300 / Fax #: 916-631-1317	Global ID:
Project #: 25-94821.8 S / P.O. #:	EDF Deliverable To (Email Address): grisse@griinc.com
Project Name: Rolls-Royce Engine Test Facility	Sampler Signature: Geoffrey D. Risse
Project Address: 6701 Old Earhart Oakland, CA	

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M) w/ Silica Gel Cleanup	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	Naphthalene (8260B)	TPH Jet Fuel (M8015)	TAT: 12 hr	TAT: 24 hr	TAT: 48 hr	TAT: 72 hr	TAT: 1 wk	For Lab Use Only
SW10-4.5	9/13/07	1205		1						X		X			X	X	X							X	X		X	X					X	11
SW11-4.5	"	1211		1						X		X			X	X	X							X	X		X	X					X	12
SW12-4.5	"	1216		1						X		X			X	X	X							X	X		X	X					X	13
SW13-4.5	↓	1225		1						X		X			X	X	X							X	X		X	X					X	14

Relinquished by: Geoffrey D. Risse	Date 9/13/07	Time 1450	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	Bill to:
Relinquished by:	Date 091307	Time 1455	Received by Laboratory: Jason Hamm	For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
8.4	JHH	091307	1450	IR-5	Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

KIFF Analytical LLC

Report Number : 58757
Date : 10/04/2007

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 2 Soil Samples
Project Name : ROLLS ROYCE ENGINE TEST FACILITY
Project Number : 948218.

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 58757
Date : 10/04/2007

Subject : 2 Soil Samples
Project Name : ROLLS ROYCE ENGINE TEST FACILITY
Project Number : 948218.

Case Narrative

The Method Reporting Limit for 1,1,2,2-Tetrachloroethane has been increased due to the presence of an interfering compound for samples SP1-A,B,C,D and SP2-A,B,C,D.

The Method Reporting Limit for n-Butylbenzene has been increased due to the presence of an interfering compound for samples SP1-A,B,C,D and SP2-A,B,C,D.

The Method Reporting Limit for 1,2,3-Trichloropropane has been increased due to the presence of an interfering compound for samples SP1-A,B,C,D and SP2-A,B,C,D.

The Method Reporting Limit for n-Propylbenzene has been increased due to the presence of an interfering compound for sample SP1-A,B,C,D.

The Method Reporting Limit for 2+4-Chlorotoluene has been increased due to the presence of an interfering compound for samples SP1-A,B,C,D and SP2-A,B,C,D.

The Method Reporting Limit for tert-Butylbenzene has been increased due to the presence of an interfering compound for sample SP1-A,B,C,D.

The Method Reporting Limit for 1,2,3-Trichlorobenzene has been increased due to the presence of an interfering compound for sample SP2-A,B,C,D.

The Method Reporting Limit for Naphthalene has been increased due to the presence of an interfering compound for samples SP1-A,B,C,D and SP2-A,B,C,D.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 58757

Date : 10/04/2007

Project Name : **ROLLS ROYCE ENGINE TEST FACILITY**

Project Number : **948218.**

Sample : **SP1-A,B,C,D** Matrix : Soil Lab Number : 58757-01

Sample Date :09/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	**4000**	50	mg/Kg	M EPA 8015	10/03/2007
TPH as Jet Fuel	**4200**	50	mg/Kg	M EPA 8015	10/01/2007
TPH as Motor Oil	**2600**	400	mg/Kg	M EPA 8015	10/01/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	10/01/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/03/2007

Sample : **SP2-A,B,C,D** Matrix : Soil Lab Number : 58757-02

Sample Date :09/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	**1500**	50	mg/Kg	M EPA 8015	10/04/2007
TPH as Jet Fuel	**2000**	50	mg/Kg	M EPA 8015	10/01/2007
TPH as Motor Oil	**970**	400	mg/Kg	M EPA 8015	10/01/2007
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	10/01/2007
1-Chlorooctadecane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	10/04/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58757

Date : 10/04/2007

Sample : **SP1-A,B,C,D**

Project Name : **ROLLS ROYCE ENGINE TEST FACILITY**

Project Number : **948218.** Lab Number : 58757-01 Date Analyzed : 09/29/07

Matrix : Soil Sample Date : 09/27/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.025	0.025	mg/Kg
TPH as Gasoline	**140**	2.5	mg/Kg
Dichlorodifluoromethane	< 0.025	0.025	mg/Kg
Chloromethane	< 0.025	0.025	mg/Kg
Vinyl Chloride	< 0.025	0.025	mg/Kg
Bromomethane	< 0.10	0.10	mg/Kg
Chloroethane	< 0.025	0.025	mg/Kg
Trichlorofluoromethane	< 0.025	0.025	mg/Kg
1,1-Dichloroethene	< 0.025	0.025	mg/Kg
Methylene Chloride	< 0.025	0.025	mg/Kg
trans-1,2-Dichloroethene	< 0.025	0.025	mg/Kg
1,1-Dichloroethane	< 0.025	0.025	mg/Kg
2,2-Dichloropropane	< 0.025	0.025	mg/Kg
cis-1,2-Dichloroethene	< 0.025	0.025	mg/Kg
Chloroform	< 0.025	0.025	mg/Kg
Bromochloromethane	< 0.025	0.025	mg/Kg
1,1,1-Trichloroethane	< 0.025	0.025	mg/Kg
1,1-Dichloropropene	< 0.025	0.025	mg/Kg
1,2-Dichloroethane	< 0.025	0.025	mg/Kg
Carbon Tetrachloride	< 0.025	0.025	mg/Kg
Benzene	< 0.025	0.025	mg/Kg
Trichloroethene	< 0.025	0.025	mg/Kg
1,2-Dichloropropane	< 0.025	0.025	mg/Kg
Bromodichloromethane	< 0.025	0.025	mg/Kg
Dibromomethane	< 0.025	0.025	mg/Kg
cis-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
Toluene	< 0.025	0.025	mg/Kg
trans-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
1,1,2-Trichloroethane	< 0.025	0.025	mg/Kg
1,3-Dichloropropane	< 0.025	0.025	mg/Kg
Tetrachloroethene	< 0.025	0.025	mg/Kg
Dibromochloromethane	< 0.025	0.025	mg/Kg
1,2-Dibromoethane	< 0.025	0.025	mg/Kg
Chlorobenzene	< 0.025	0.025	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.025	0.025	mg/Kg
Ethylbenzene	< 0.025	0.025	mg/Kg
P,M-Xylene	< 0.050	0.050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.025	0.025	mg/Kg
Styrene	< 0.025	0.025	mg/Kg
Isopropyl benzene	< 0.025	0.025	mg/Kg
Bromoform	< 0.025	0.025	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.20	0.20 (2)	mg/Kg
1,2,3-Trichloropropane	< 1.0	1.0 (2)	mg/Kg
n-Propylbenzene	< 0.050	0.050 (2)	mg/Kg
Bromobenzene	< 0.025	0.025	mg/Kg
1,3,5-Trimethylbenzene	**0.18**	0.025	mg/Kg
2+4-Chlorotoluene	< 0.080	0.080 (2)	mg/Kg
tert-Butylbenzene	< 0.050	0.050 (2)	mg/Kg
1,2,4-Trimethylbenzene	< 0.050	0.050 (2)	mg/Kg
sec-Butylbenzene	**0.090**	0.025	mg/Kg
p-Isopropyltoluene	**0.15**	0.025	mg/Kg
1,3-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,4-Dichlorobenzene	< 0.025	0.025	mg/Kg
n-Butylbenzene	< 0.20	0.20 (2)	mg/Kg
1,2-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.025	0.025	mg/Kg
1,2,4-Trichlorobenzene	< 0.025	0.025	mg/Kg
Hexachlorobutadiene	< 0.025	0.025	mg/Kg
Naphthalene	< 0.50	0.50 (2)	mg/Kg
1,2,3-Trichlorobenzene	< 0.025	0.025	mg/Kg
1,2-Dichloroethane-d4 (Surr)	101		% Recovery
Toluene-d8 (Surr)	99.0		% Recovery
4-Bromofluorobenzene (Surr)	86.8		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By:

Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58757

Date : 10/04/2007

Sample : **SP2-A,B,C,D**

Project Name : **ROLLS ROYCE ENGINE TEST FACILITY**

Project Number : **948218.** Lab Number : 58757-02 Date Analyzed : 09/29/07

Matrix : Soil Sample Date : 09/27/2007 Analysis Method: EPA 8260B

Parameter	Measured Value	MRL [1]	Units
Methyl-t-butyl ether (MTBE)	< 0.025	0.025	mg/Kg
TPH as Gasoline	**37**	2.5	mg/Kg
Dichlorodifluoromethane	< 0.025	0.025	mg/Kg
Chloromethane	< 0.025	0.025	mg/Kg
Vinyl Chloride	< 0.025	0.025	mg/Kg
Bromomethane	< 0.10	0.10	mg/Kg
Chloroethane	< 0.025	0.025	mg/Kg
Trichlorofluoromethane	< 0.025	0.025	mg/Kg
1,1-Dichloroethene	< 0.025	0.025	mg/Kg
Methylene Chloride	< 0.025	0.025	mg/Kg
trans-1,2-Dichloroethene	< 0.025	0.025	mg/Kg
1,1-Dichloroethane	< 0.025	0.025	mg/Kg
2,2-Dichloropropane	< 0.025	0.025	mg/Kg
cis-1,2-Dichloroethene	< 0.025	0.025	mg/Kg
Chloroform	< 0.025	0.025	mg/Kg
Bromochloromethane	< 0.025	0.025	mg/Kg
1,1,1-Trichloroethane	< 0.025	0.025	mg/Kg
1,1-Dichloropropene	< 0.025	0.025	mg/Kg
1,2-Dichloroethane	< 0.025	0.025	mg/Kg
Carbon Tetrachloride	< 0.025	0.025	mg/Kg
Benzene	< 0.025	0.025	mg/Kg
Trichloroethene	< 0.025	0.025	mg/Kg
1,2-Dichloropropane	< 0.025	0.025	mg/Kg
Bromodichloromethane	< 0.025	0.025	mg/Kg
Dibromomethane	< 0.025	0.025	mg/Kg
cis-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
Toluene	< 0.025	0.025	mg/Kg
trans-1,3-Dichloropropene	< 0.025	0.025	mg/Kg
1,1,2-Trichloroethane	< 0.025	0.025	mg/Kg
1,3-Dichloropropane	< 0.025	0.025	mg/Kg
Tetrachloroethene	< 0.025	0.025	mg/Kg
Dibromochloromethane	< 0.025	0.025	mg/Kg
1,2-Dibromoethane	< 0.025	0.025	mg/Kg
Chlorobenzene	< 0.025	0.025	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.025	0.025	mg/Kg
Ethylbenzene	< 0.025	0.025	mg/Kg
P,M-Xylene	< 0.050	0.050	mg/Kg

Parameter	Measured Value	MRL [1]	Units
O-Xylene	< 0.025	0.025	mg/Kg
Styrene	< 0.025	0.025	mg/Kg
Isopropyl benzene	< 0.025	0.025	mg/Kg
Bromoform	< 0.025	0.025	mg/Kg
1,1,2,2-Tetrachloroethane	< 0.10	0.10 (2)	mg/Kg
1,2,3-Trichloropropane	< 0.50	0.50 (2)	mg/Kg
n-Propylbenzene	< 0.025	0.025	mg/Kg
Bromobenzene	< 0.025	0.025	mg/Kg
1,3,5-Trimethylbenzene	< 0.025	0.025	mg/Kg
2+4-Chlorotoluene	< 0.050	0.050 (2)	mg/Kg
tert-Butylbenzene	< 0.025	0.025	mg/Kg
1,2,4-Trimethylbenzene	< 0.025	0.025	mg/Kg
sec-Butylbenzene	< 0.025	0.025	mg/Kg
p-Isopropyltoluene	< 0.025	0.025	mg/Kg
1,3-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,4-Dichlorobenzene	< 0.025	0.025	mg/Kg
n-Butylbenzene	< 0.080	0.080 (2)	mg/Kg
1,2-Dichlorobenzene	< 0.025	0.025	mg/Kg
1,2-Dibromo-3-chloropropane	< 0.025	0.025	mg/Kg
1,2,4-Trichlorobenzene	< 0.025	0.025	mg/Kg
Hexachlorobutadiene	< 0.025	0.025	mg/Kg
Naphthalene	< 0.10	0.10 (2)	mg/Kg
1,2,3-Trichlorobenzene	< 0.080	0.080 (2)	mg/Kg
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery
Toluene-d8 (Surr)	98.3		% Recovery
4-Bromofluorobenzene (Surr)	86.0		% Recovery

1) MRL = Method reporting limit
2) MRL raised due to interference

Approved By:

Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58757

Date : 10/04/2007

QC Report : Method Blank Data

Project Name : **ROLLS ROYCE ENGINE TEST FACILITY**

Project Number : **948218.**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	10/03/2007
TPH as Jet Fuel	< 1.0	1.0	mg/Kg	M EPA 8015	10/01/2007
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	10/01/2007
1-Chlorooctadecane (Diesel Surrogate)	79.0		%	M EPA 8015	10/01/2007
1-Chlorooctadecane (Silica Gel Surr)	104		%	M EPA 8015	10/03/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/28/2007
Dichlorodifluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Chloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Vinyl Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Bromomethane	< 0.020	0.020	mg/Kg	EPA 8260B	09/28/2007
Chloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Trichlorofluoromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Methylene Chloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
trans-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
2,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
cis-1,2-Dichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Chloroform	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Bromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1,1-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Carbon Tetrachloride	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Trichloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Bromodichloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Dibromomethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
cis-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
trans-1,3-Dichloropropene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
1,1,2-Trichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,3-Dichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Tetrachloroethene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Dibromochloromethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Chlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1,1,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
P,M-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
O-Xylene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Styrene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Isopropyl benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Bromoform	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,1,2,2-Tetrachloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2,3-Trichloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
n-Propylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Bromobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,3,5-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
2+4-Chlorotoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
tert-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2,4-Trimethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
sec-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
p-Isopropyltoluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,3-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,4-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
n-Butylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dibromo-3-chloropropane	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2,4-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Hexachlorobutadiene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
Naphthalene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2,3-Trichlorobenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/28/2007
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/28/2007
Toluene - d8 (Surr)	97.7		%	EPA 8260B	09/28/2007
4-Bromofluorobenzene (Surr)	85.0		%	EPA 8260B	09/28/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58757

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/04/2007

Project Name : **ROLLS ROYCE ENGINE**

Project Number : **948218.**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	58630-03	5.1	20.0	20.0	22.9	21.4	mg/Kg	M EPA 8015	10/3/07	91.5	85.6	6.69	60-140	25
TPH as Diesel	58630-03	6.1	20.0	20.0	24.4	23.0	mg/Kg	M EPA 8015	9/29/07	93.7	88.2	6.06	60-140	25
1,1-Dichloroethane	58774-05	<0.0050	0.0394	0.0394	0.0384	0.0385	mg/Kg	EPA 8260B	9/28/07	97.3	97.7	0.357	70-130	25
Benzene	58774-05	<0.0050	0.0394	0.0394	0.0429	0.0420	mg/Kg	EPA 8260B	9/28/07	109	106	2.14	70-130	25
1,2-Dichloroethane	58774-05	<0.0050	0.0394	0.0394	0.0396	0.0383	mg/Kg	EPA 8260B	9/28/07	100	97.1	3.29	70-130	25
Toluene	58774-05	<0.0050	0.0394	0.0394	0.0397	0.0394	mg/Kg	EPA 8260B	9/28/07	101	99.8	0.815	70-130	25
Chlorobenzene	58774-05	<0.0050	0.0394	0.0394	0.0376	0.0374	mg/Kg	EPA 8260B	9/28/07	95.3	94.8	0.461	70-130	25
Tert-Butanol	58774-05	<0.0050	0.197	0.197	0.195	0.193	mg/Kg	EPA 8260B	9/28/07	98.7	98.1	0.659	70-130	25
Methyl-t-Butyl Ether	58774-05	<0.0050	0.0394	0.0394	0.0350	0.0362	mg/Kg	EPA 8260B	9/28/07	88.8	91.8	3.33	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58757

QC Report : Laboratory Control Sample (LCS)

Date : 10/04/2007

Project Name : **ROLLS ROYCE ENGINE**

Project Number : **948218.**

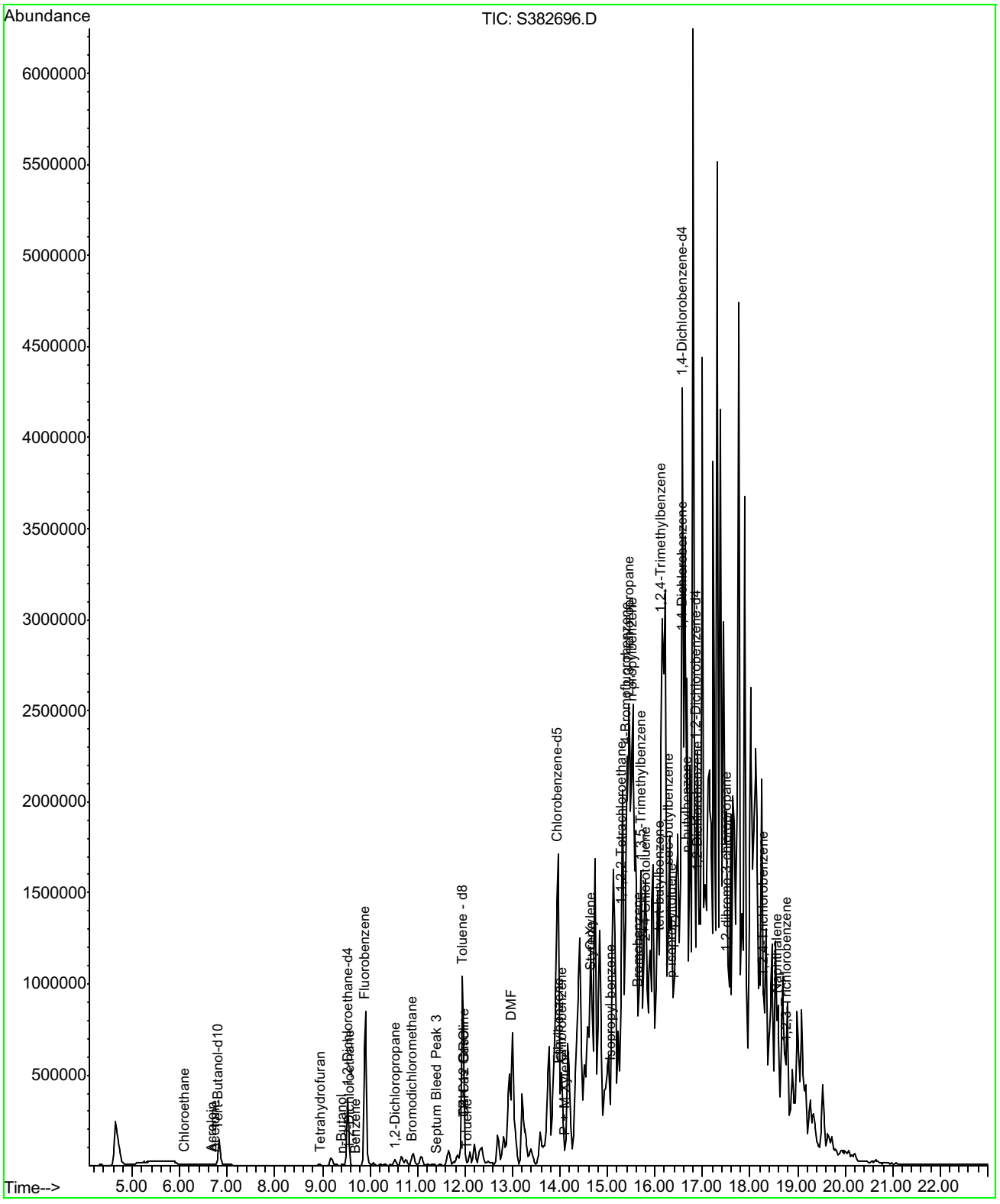
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH-D (Si Gel)	20.0	mg/Kg	M EPA 8015	10/3/07	100	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/29/07	80.4	70-130
1,1-Dichloroethane	0.0399	mg/Kg	EPA 8260B	9/28/07	97.4	70-130
Benzene	0.0399	mg/Kg	EPA 8260B	9/28/07	100	70-130
1,2-Dichloroethane	0.0399	mg/Kg	EPA 8260B	9/28/07	97.4	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	9/28/07	98.3	70-130
Chlorobenzene	0.0399	mg/Kg	EPA 8260B	9/28/07	94.3	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	9/28/07	99.6	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	9/28/07	89.5	70-130

Approved By: Joel Kiff

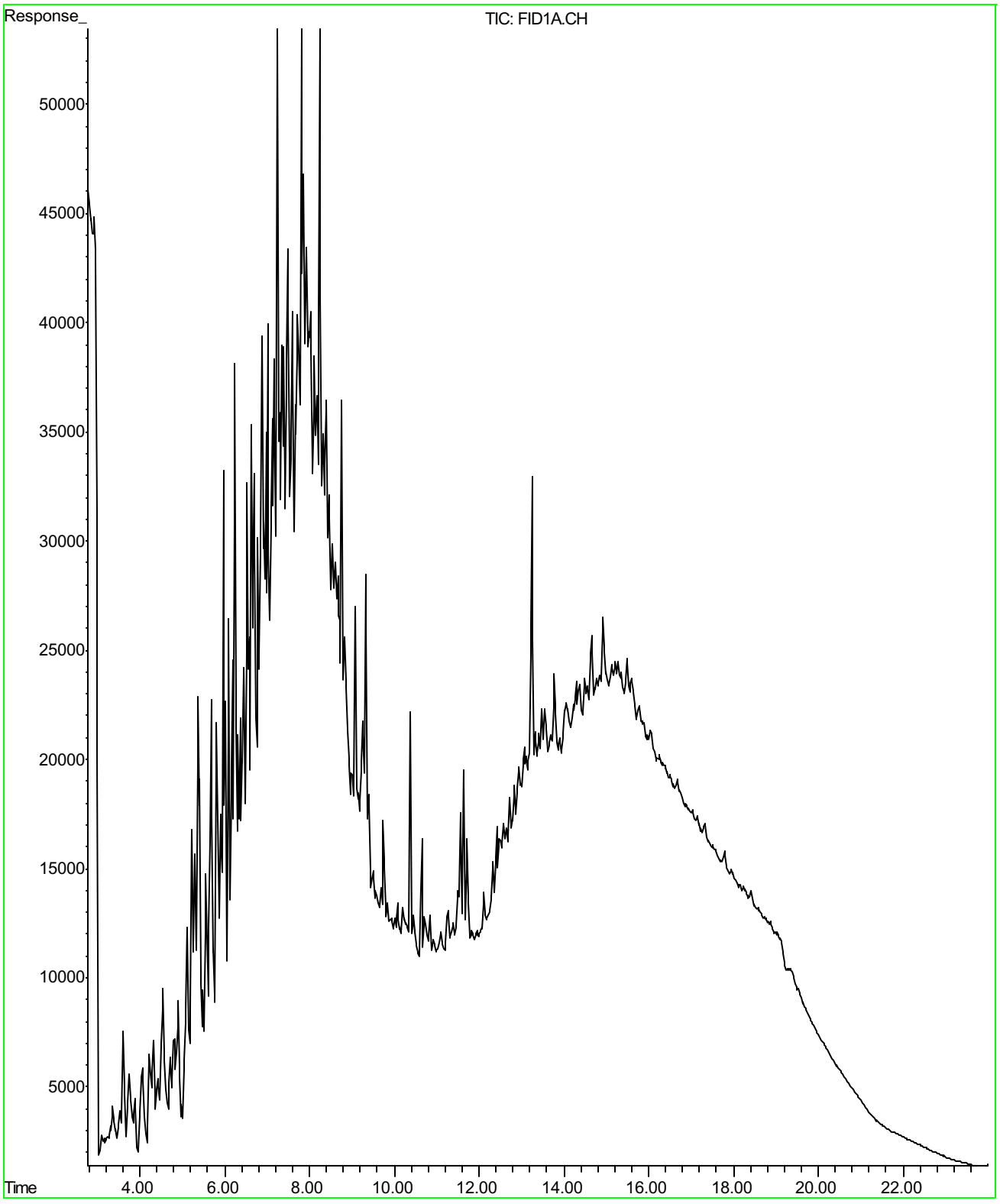
KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

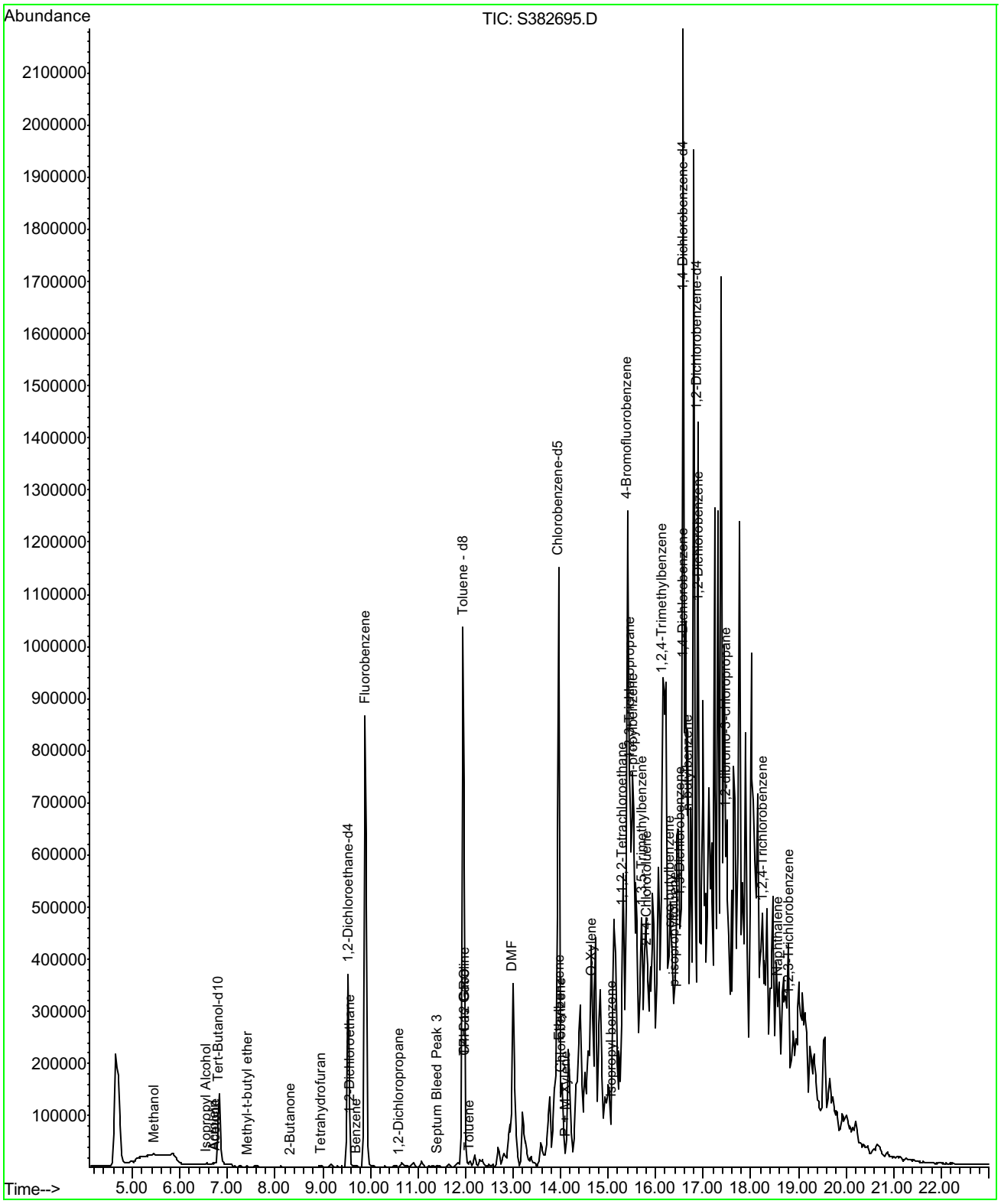
Sample ID : 58757-01 (SP1-A,B,C,D)
Date Analyzed : 09/29/07
Data File : S382696
Analysis Method : EPA 8260B



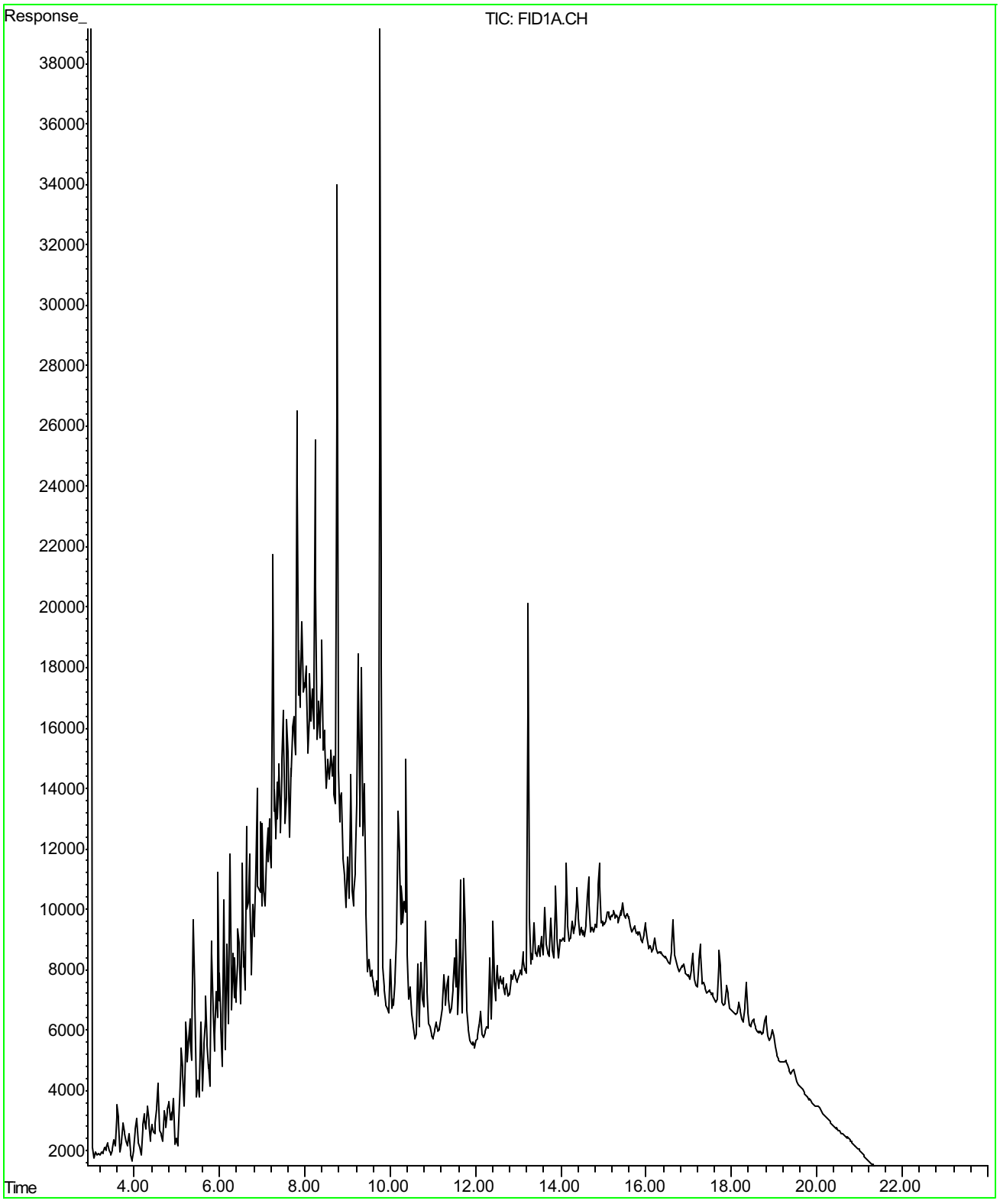
Sample ID : 58757-01 (SP1-A,B,C,D)
Date Analyzed : 10/01/07
Data File : D173855
Analysis Method : M EPA 8015



Sample ID : 58757-02 (SP2-A,B,C,D)
Date Analyzed : 09/29/07
Data File : S382695
Analysis Method : EPA 8260B



Sample ID : 58757-02 (SP2-A,B,C,D)
Date Analyzed : 10/01/07
Data File : D173856
Analysis Method : M EPA 8015



Calscience Environmental Laboratories, Inc.

October 04, 2007

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 07-09-2165**
Client Reference: Rolls Royce Engine Test Facility

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/29/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Amanda Porter

Calscience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	09/29/07
2795 2nd Street, Suite 300		Work Order No:	07-09-2165
Davis, CA 95616-6593		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Rolls Royce Engine Test Facility			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP1-A,B,C,D	**07-09-2165-1**	**09/27/07**	**Solid**	**ICP 5300**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.500	1		Nickel	66.3	0.250	1	
Chromium	50.0	0.250	1		Zinc	186	1.00	1	B
Lead	170	0.500	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP2-A,B,C,D	**07-09-2165-2**	**09/27/07**	**Solid**	**ICP 5300**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.500	1		Nickel	27.6	0.250	1	
Chromium	32.5	0.250	1		Zinc	122	1.00	1	B
Lead	319	0.500	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-002-9,889**	**N/A**	**Solid**	**ICP 5300**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.500	1		Nickel	ND	0.250	1	
Chromium	ND	0.250	1		Zinc	1.89	1.00	1	
Lead	ND	0.500	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	09/29/07
2795 2nd Street, Suite 300		Work Order No:	07-09-2165
Davis, CA 95616-6593		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: Rolls Royce Engine Test Facility			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP1-A,B,C,D	**07-09-2165-1**	**09/27/07**	**Solid**	**GC 16**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	98	50-130			2,4,5,6-Tetrachloro-m-Xylene	81	50-130		

SP2-A,B,C,D	**07-09-2165-2**	**09/27/07**	**Solid**	**GC 16**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	56	50-130			2,4,5,6-Tetrachloro-m-Xylene	51	50-130		

Method Blank	**099-12-535-152**	**N/A**	**Solid**	**GC 16**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	118	50-130			2,4,5,6-Tetrachloro-m-Xylene	124	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	09/29/07
2795 2nd Street, Suite 300		Work Order No:	07-09-2165
Davis, CA 95616-6593		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: Rolls Royce Engine Test Facility

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP1-A,B,C,D	**07-09-2165-1**	**09/27/07**	**Solid**	**GC/MS MM**	**10/01/07**	**10/03/07**	**071001L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	1.0	2		2,4-Dinitrophenol	ND	5.0	2	
Aniline	ND	1.0	2		4-Nitrophenol	ND	1.0	2	
Phenol	ND	1.0	2		Dibenzofuran	ND	1.0	2	
Bis(2-Chloroethyl) Ether	ND	5.0	2		2,4-Dinitrotoluene	ND	1.0	2	
2-Chlorophenol	ND	1.0	2		2,6-Dinitrotoluene	ND	1.0	2	
1,3-Dichlorobenzene	ND	1.0	2		Diethyl Phthalate	ND	1.0	2	
1,4-Dichlorobenzene	ND	1.0	2		4-Chlorophenyl-Phenyl Ether	ND	1.0	2	
Benzyl Alcohol	ND	1.0	2		Fluorene	ND	1.0	2	
1,2-Dichlorobenzene	ND	1.0	2		4-Nitroaniline	ND	1.0	2	
2-Methylphenol	ND	1.0	2		Azobenzene	ND	1.0	2	
Bis(2-Chloroisopropyl) Ether	ND	1.0	2		4,6-Dinitro-2-Methylphenol	ND	5.0	2	
3/4-Methylphenol	ND	1.0	2		N-Nitrosodiphenylamine	ND	1.0	2	
N-Nitroso-di-n-propylamine	ND	1.0	2		2,4,6-Trichlorophenol	ND	1.0	2	
Hexachloroethane	ND	1.0	2		4-Bromophenyl-Phenyl Ether	ND	1.0	2	
Nitrobenzene	ND	5.0	2		Hexachlorobenzene	ND	1.0	2	
Isophorone	ND	1.0	2		Pentachlorophenol	ND	5.0	2	
2-Nitrophenol	ND	1.0	2		Phenanthrene	ND	1.0	2	
2,4-Dimethylphenol	ND	1.0	2		Anthracene	ND	1.0	2	
Benzoic Acid	ND	5.0	2		Di-n-Butyl Phthalate	ND	1.0	2	
Bis(2-Chloroethoxy) Methane	ND	1.0	2		Fluoranthene	ND	1.0	2	
2,4-Dichlorophenol	ND	1.0	2		Benzidine	ND	20	2	
1,2,4-Trichlorobenzene	ND	1.0	2		Pyrene	ND	1.0	2	
Naphthalene	ND	1.0	2		Pyridine	ND	1.0	2	
4-Chloroaniline	ND	1.0	2		Butyl Benzyl Phthalate	ND	1.0	2	
Hexachloro-1,3-Butadiene	ND	1.0	2		3,3'-Dichlorobenzidine	ND	20	2	
4-Chloro-3-Methylphenol	ND	1.0	2		Benzo (a) Anthracene	ND	1.0	2	
2-Methylnaphthalene	ND	1.0	2		Bis(2-Ethylhexyl) Phthalate	ND	1.0	2	
1-Methylnaphthalene	1.8	1.0	2		Chrysene	ND	1.0	2	
Hexachlorocyclopentadiene	ND	5.0	2		Di-n-Octyl Phthalate	ND	1.0	2	
2,4,5-Trichlorophenol	ND	1.0	2		Benzo (k) Fluoranthene	ND	1.0	2	
2-Chloronaphthalene	ND	1.0	2		Benzo (b) Fluoranthene	ND	1.0	2	
2-Nitroaniline	ND	1.0	2		Benzo (a) Pyrene	ND	1.0	2	
Dimethyl Phthalate	ND	1.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Acenaphthylene	ND	1.0	2		Dibenz (a,h) Anthracene	ND	1.0	2	
3-Nitroaniline	ND	1.0	2		Benzo (g,h,i) Perylene	ND	1.0	2	
Acenaphthene	ND	1.0	2						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	84	42-120		Phenol-d6	91	46-118	
Nitrobenzene-d5	71	42-150		2-Fluorobiphenyl	102	38-134	
2,4,6-Tribromophenol	95	36-132		p-Terphenyl-d14	153	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical		Date Received:	09/29/07
2795 2nd Street, Suite 300		Work Order No:	07-09-2165
Davis, CA 95616-6593		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg

Project: Rolls Royce Engine Test Facility

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
SP2-A,B,C,D	**07-09-2165-2**	**09/27/07**	**Solid**	**GC/MS MM**	**10/01/07**	**10/02/07**	**071001L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	118	42-120		Phenol-d6	116	46-118	
Nitrobenzene-d5	99	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	95	36-132		p-Terphenyl-d14	147	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/29/07
Work Order No: 07-09-2165
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: Rolls Royce Engine Test Facility

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-12-549-177**	**N/A**	**Solid**	**GC/MS MM**	**10/01/07**	**10/02/07**	**071001L08**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.50	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
Naphthalene	ND	0.50	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	10	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.50	1	
2-Methylnaphthalene	ND	0.50	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.50	1		Chrysene	ND	0.50	1	
Hexachlorocyclopentadiene	ND	2.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.50	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Acenaphthylene	ND	0.50	1		Dibenz (a,h) Anthracene	ND	0.50	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.50	1	
Acenaphthene	ND	0.50	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	98	42-120		Phenol-d6	107	46-118	
Nitrobenzene-d5	99	42-150		2-Fluorobiphenyl	90	38-134	
2,4,6-Tribromophenol	119	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/29/07
Work Order No: 07-09-2165

Project: Rolls Royce Engine Test Facility

Client Sample Number	Lab Sample Number	Date Collected	Matrix
SP1-A,B,C,D	**07-09-2165-1**	**09/27/07**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	3300	100	1		mg/kg	10/01/07	10/01/07	EPA 1664A M

Client Sample Number	Lab Sample Number	Date Collected	Matrix
SP2-A,B,C,D	**07-09-2165-2**	**09/27/07**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	790	10	1		mg/kg	10/01/07	10/01/07	EPA 1664A M

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	10	1		mg/kg	10/01/07	10/01/07	EPA 1664A M

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/29/07
Work Order No: 07-09-2165
Preparation: EPA 3050B
Method: EPA 6010B

Project Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-10-0012-1	**Solid**	**ICP 5300**	**10/01/07**	**10/02/07**	**071001S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	92	94	75-125	3	0-20	
Chromium	103	104	75-125	1	0-20	
Lead	98	101	75-125	3	0-20	
Nickel	99	104	75-125	3	0-20	
Zinc	116	126	75-125	3	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/29/07
Work Order No: 07-09-2165
Preparation: EPA 3545
Method: EPA 8082

Project Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-2156-1	**Solid**	**GC 16**	**10/01/07**	**10/02/07**	**071001S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	111	119	50-135	8	0-20	
Aroclor-1260	93	105	50-135	12	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 09/29/07
Work Order No: 07-09-2165
Preparation: EPA 3545
Method: EPA 8270C

Project Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-2171-2	**Solid**	**GC/MS MM**	**10/01/07**	**10/02/07**	**071001S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	113	119	57-123	5	0-16	
2-Chlorophenol	106	112	57-111	5	0-17	3
1,4-Dichlorobenzene	105	114	49-127	8	0-20	
N-Nitroso-di-n-propylamine	121	125	54-144	3	0-17	
1,2,4-Trichlorobenzene	110	113	42-132	2	0-20	
4-Chloro-3-Methylphenol	117	118	50-128	1	0-17	
Acenaphthene	124	124	49-133	0	0-18	
4-Nitrophenol	109	104	30-144	4	0-21	
2,4-Dinitrotoluene	98	98	50-128	1	0-18	
Pentachlorophenol	91	93	29-113	2	0-22	
Pyrene	149	148	47-149	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-09-2165
Preparation: EPA 3050B
Method: EPA 6010B

Project: Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-9,889	**Solid**	**ICP 5300**	**10/01/07**	**10/02/07**	**071001L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	105	105	80-120	0	0-20	
Chromium	106	106	80-120	0	0-20	
Lead	108	107	80-120	0	0-20	
Nickel	110	109	80-120	1	0-20	
Zinc	111	110	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-09-2165
Preparation: EPA 3545
Method: EPA 8082

Project: Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-535-152	**Solid**	**GC 16**	**10/01/07**	**10/03/07**	**071001L09**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1016	113	103	50-135	9	0-20	
Aroclor-1260	117	118	50-135	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-09-2165
Preparation: EPA 3545
Method: EPA 8270C

Project: Rolls Royce Engine Test Facility

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-549-177	**Solid**	**GC/MS MM**	**10/01/07**	**10/03/07**	**071001L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	90	90	59-125	1	0-15	
2-Chlorophenol	85	85	60-114	0	0-15	
1,4-Dichlorobenzene	87	87	61-121	1	0-21	
N-Nitroso-di-n-propylamine	96	96	64-136	0	0-15	
1,2,4-Trichlorobenzene	81	81	58-118	0	0-18	
4-Chloro-3-Methylphenol	88	88	61-121	1	0-14	
Acenaphthene	78	78	59-125	0	0-15	
4-Nitrophenol	79	78	38-152	1	0-31	
2,4-Dinitrotoluene	75	74	51-141	2	0-16	
Pentachlorophenol	71	71	38-116	0	0-20	
Pyrene	77	78	51-141	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 07-09-2165

Project: Rolls Royce Engine Test Facility

Matrix: Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
HEM: Oil and Grease	EPA 1664A M	099-12-040-103	10/01/07	10/01/07	92	92	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-09-2165

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC
2795 Second Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 2165 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Christie Dumas

EDF Report? __Yes _X_No

Company/Address: Kiff Analytical

Phone No.: FAX No.:

Project Number: 948218. P.O. No.: 58757

Project Name: Rolls Royce Engine Test Facility

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable to (Email Address):

E-mail address: inbox@kiffanalytical.com

Date due: October 4, 2007

Sample Designation	Sampling Date	Sampling Time	Container: Glass	Poly	Sleeve	Amber	Tedlar	Preservative: HNO_3	H_2SO_4	$Na_2S_2O_3$	$ZnAc_2$ & NaOH	NONE	Matrix: WATER	SOIL	Air	CAM-5 Metals (EPA 6010B)	SVOCs (EPA 8270)	PCBs (EPA 8080)	Total Oil and Grease (EPA 5520)					For Lab Use Only
SP1-A,B,C,D	09/27/07	10:20	1									1		X		X	X	X	X					X	
SP2-A,B,C,D	09/27/07	10:33	1									1		X		X	X	X	X					X	

Relinquished by: Kiff Analytical	Date 092807	Time 1900	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 9/29/07	Time 1000	Received by Laboratory:

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 09 - 2165

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff DATE: 9/29/07

TEMPERATURE & SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.2 °C IR thermometer.
_____ Ambient temperature.

Initial: HH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: HH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: HH

COMMENTS:

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Sample Receipt
Temp °C 3.5 Therm. ID# IR4
Initial JRB
Date 052707 Time 1243
Coolant present: (Yes) / No

Lab No. 58757 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Geoffrey D. Risse
Company/Address: Gettler-Ryan Rancho Cordova
Phone No.: 916-631-1300
FAX No.: 916-631-1317
Project Number: 948218.
P.O. No:
Project Name: Rolls Royce Engine Test Facility
Project Address: 6701 Old Earhart Rd Oakland, CA

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature: [signature] Risse

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL W.E.T. / CAM-5 Metals (6010B)	TPH as Jet fuel (8015)	SVOCs (8270)	PCBs (8080)	Total Oil and Grease	TAT 12 hr/24 hr/48 hr/72 hr/(1 wk)	For Lab Use Only
SP1-A	9/27/07	1020		1			X			X			X	X	X						X		X	X	X	X	X	X	01
SP1-B	↓	1020		1			X			X			X	X	X						X		X	X	X	X	X	X	01
SP1-C	↓	1020		1			X			X			X	X	X						X		X	X	X	X	X	X	01
SP1-D	↓	1020		1			X			X			X	X	X						X		X	X	X	X	X	X	01
SP2-A	↓	1033		1			X			X			X	X	X						X		X	X	X	X	X	X	02
SP2-B	↓	1033		1			X			X			X	X	X						X		X	X	X	X	X	X	02
SP2-C	↓	1033		1			X			X			X	X	X						X		X	X	X	X	X	X	02
SP2-D	↓	1033		1			X			X			X	X	X						X		X	X	X	X	X	X	02

(SP1-A to SP1-D bracketed: composite; SP2-A to SP2-D bracketed: composite)

Relinquished by	Date	Time	Received by
[signature] Risse	09/27/07	1245	
	092707	1245	Received by Laboratory: [signature] Kiff Analytical

Remarks: composite samples SP1-A, SP1-B, SP1-C, SP1-D 4 into 1
composite samples SP2-A, SP2-B, SP2-C, SP2-D 4 into 1

Bill to:

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 16 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Subject : 16 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-3, MW-10, MW-9, MW-11, MW-12, MW-13 and MW-14 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Due to the formation of an emulsion for sample MW-4, the sample was centrifruged and decanted prior to extraction.

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **QA** Matrix : Water Lab Number : 58899-01
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	10/05/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-1** Matrix : Water Lab Number : 58899-02
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	10/05/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	90.6		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	104		% Recovery	M EPA 8015	10/05/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-2** Matrix : Water Lab Number : 58899-03
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	10/05/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/10/2007
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	10/10/2007
Octacosane (Diesel Surrogate)	116		% Recovery	M EPA 8015	10/10/2007
Octacosane (Diesel Silica Gel Surr)	96.8		% Recovery	M EPA 8015	10/05/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-3** Matrix : Water Lab Number : 58899-04
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**1.6**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	10/11/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**410**	50	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	92.9		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	92.1		% Recovery	M EPA 8015	10/11/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-4** Matrix : Water Lab Number : 58899-05
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**0.63**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**86**	50	ug/L	M EPA 8015	10/10/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**280**	50	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	99.7		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	102		% Recovery	M EPA 8015	10/10/2007

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-5** Matrix : Water Lab Number : 58899-06
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**5600**	50	ug/L	M EPA 8015	10/06/2007
TPH as Motor Oil	**11000**	250	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**5300**	250	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	111		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	119		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-6** Matrix : Water Lab Number : 58899-07
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**0.86**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**1.1**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**0.53**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**3000**	50	ug/L	M EPA 8015	10/06/2007
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil	**7700**	250	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**2500**	250	ug/L	M EPA 8015	10/09/2007
(Note: Hydrocarbons are higher-boiling than typical Jet Fuel.)					
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	92.1		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-7** Matrix : Water Lab Number : 58899-08
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/06/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/06/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/06/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/06/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/06/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/06/2007
Naphthalene	**0.76**	0.50	ug/L	EPA 8260B	10/06/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/06/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/06/2007
TPH as Diesel (Silica Gel)	**12000**	50	ug/L	M EPA 8015	10/06/2007
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Motor Oil	**34000**	250	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**9100**	250	ug/L	M EPA 8015	10/09/2007
(Note: Hydrocarbons are higher-boiling than typical Jet Fuel.)					
Octacosane (Diesel Surrogate)	87.3		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	99.2		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-9** Matrix : Water Lab Number : 58899-09
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**7700**	50	ug/L	M EPA 8015	10/06/2007
TPH as Motor Oil	**10000**	250	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**6700**	250	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	72.5		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	75.9		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-10** Matrix : Water Lab Number : 58899-10
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**110**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**4200**	50	ug/L	M EPA 8015	10/06/2007
TPH as Motor Oil	**1300**	100	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**4500**	50	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	102		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	94.6		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-11** Matrix : Water Lab Number : 58899-11
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**80**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**250**	50	ug/L	M EPA 8015	10/06/2007
TPH as Motor Oil	**490**	100	ug/L	M EPA 8015	10/09/2007
TPH as Jet Fuel	**610**	50	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	101		% Recovery	M EPA 8015	10/06/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-12** Matrix : Water Lab Number : 58899-12
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	10/08/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/06/2007
TPH as Jet Fuel	**< 50**	50	ug/L	M EPA 8015	10/06/2007
Octacosane (Diesel Surrogate)	97.6		% Recovery	M EPA 8015	10/06/2007
Octacosane (Diesel Silica Gel Surr)	106		% Recovery	M EPA 8015	10/08/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-13** Matrix : Water Lab Number : 58899-13
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**1.2**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**160**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**1.7**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**70**	50	ug/L	M EPA 8015	10/08/2007
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/06/2007
TPH as Jet Fuel	**660**	50	ug/L	M EPA 8015	10/06/2007
Octacosane (Diesel Surrogate)	95.5		% Recovery	M EPA 8015	10/06/2007
Octacosane (Diesel Silica Gel Surr)	78.0		% Recovery	M EPA 8015	10/08/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-14** Matrix : Water Lab Number : 58899-14
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**1.4**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**67**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**6.1**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**300**	50	ug/L	M EPA 8015	10/08/2007
TPH as Motor Oil	**870**	100	ug/L	M EPA 8015	10/06/2007
TPH as Jet Fuel	**1400**	50	ug/L	M EPA 8015	10/06/2007
Octacosane (Diesel Surrogate)	98.4		% Recovery	M EPA 8015	10/06/2007
Octacosane (Diesel Silica Gel Surr)	89.1		% Recovery	M EPA 8015	10/08/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **MW-15** Matrix : Water Lab Number : 58899-15
Sample Date :10/02/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**99**	50	ug/L	M EPA 8015	10/08/2007
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/06/2007
TPH as Jet Fuel	**120**	50	ug/L	M EPA 8015	10/06/2007
Octacosane (Diesel Surrogate)	99.9		% Recovery	M EPA 8015	10/06/2007
Octacosane (Diesel Silica Gel Surr)	91.7		% Recovery	M EPA 8015	10/08/2007

Approved By: Joel Kiff

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

Report Number : 58899
Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**
Project Number : **25-948218.1**

Sample : **BK-1** Matrix : Water Lab Number : 58899-16
Sample Date :10/03/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	**0.54**	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	**5.1**	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	**260**	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	**1.6**	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/05/2007
TPH as Diesel (Silica Gel)	**140**	50	ug/L	M EPA 8015	10/10/2007
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Motor Oil	**< 100**	100	ug/L	M EPA 8015	10/06/2007
TPH as Jet Fuel	**2400**	50	ug/L	M EPA 8015	10/06/2007
Octacosane (Diesel Surrogate)	100		% Recovery	M EPA 8015	10/06/2007
Octacosane (Diesel Silica Gel Surr)	101		% Recovery	M EPA 8015	10/10/2007

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Report Number : 58899

Date : 10/11/2007

QC Report : Method Blank Data

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/05/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/05/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/05/2007
Octacosane (Diesel Surrogate)	95.3		%	M EPA 8015	10/05/2007
Octacosane (Diesel Silica Gel Surr)	95.0		%	M EPA 8015	10/05/2007
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/09/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/09/2007
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/09/2007
Octacosane (Diesel Surrogate)	102		%	M EPA 8015	10/09/2007
Octacosane (Diesel Silica Gel Surr)	97.2		%	M EPA 8015	10/09/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	99.3		%	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	10/05/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	10/05/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	102		%	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		%	EPA 8260B	10/05/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	102		%	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	112		%	EPA 8260B	10/05/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58899

QC Report : Method Blank Data

Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test Facility**

Project Number : **25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/2007
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/05/2007
Toluene - d8 (Surr)	99.0		%	EPA 8260B	10/05/2007
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	10/05/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58899

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	960	988	ug/L	M EPA 8015	10/5/07	96.0	98.8	2.92	70-130	25
TPH-D (Si Gel)	Blank	<50	1000	1000	846	840	ug/L	M EPA 8015	10/5/07	84.6	84.0	0.664	70-130	25
TPH as Diesel	Blank	<50	1000	1000	753	748	ug/L	M EPA 8015	10/9/07	75.3	74.8	0.607	70-130	25
TPH-D (Si Gel)	Blank	<50	1000	1000	787	788	ug/L	M EPA 8015	10/9/07	78.7	78.8	0.0855	70-130	25
Benzene	58892-05	<0.50	40.0	40.0	40.1	38.9	ug/L	EPA 8260B	10/5/07	100	97.3	2.88	70-130	25
Toluene	58892-05	<0.50	40.0	40.0	40.6	39.7	ug/L	EPA 8260B	10/5/07	102	99.3	2.29	70-130	25
Tert-Butanol	58892-05	<5.0	200	200	200	206	ug/L	EPA 8260B	10/5/07	99.8	103	3.27	70-130	25
Methyl-t-Butyl Ether	58892-05	0.55	40.0	40.0	43.6	42.3	ug/L	EPA 8260B	10/5/07	108	104	2.92	70-130	25
Benzene	58918-03	<0.50	40.0	40.0	39.7	37.7	ug/L	EPA 8260B	10/5/07	99.2	94.2	5.22	70-130	25
Toluene	58918-03	<0.50	40.0	40.0	39.9	38.2	ug/L	EPA 8260B	10/5/07	99.8	95.5	4.41	70-130	25
Tert-Butanol	58918-03	<5.0	200	200	200	193	ug/L	EPA 8260B	10/5/07	100	96.5	3.70	70-130	25
Methyl-t-Butyl Ether	58918-03	<0.50	40.0	40.0	40.1	41.6	ug/L	EPA 8260B	10/5/07	100	104	3.64	70-130	25
Benzene	58851-01	<0.50	40.0	40.0	38.4	35.8	ug/L	EPA 8260B	10/5/07	96.1	89.5	7.18	70-130	25
Toluene	58851-01	<0.50	40.0	40.0	39.9	37.4	ug/L	EPA 8260B	10/5/07	99.8	93.5	6.51	70-130	25
Tert-Butanol	58851-01	17	200	200	276	254	ug/L	EPA 8260B	10/5/07	130	118	9.02	70-130	25
Methyl-t-Butyl Ether	58851-01	90	40.0	40.0	189	178	ug/L	EPA 8260B	10/5/07	249	221	11.9	70-130	25
Benzene	58918-02	<0.50	40.0	40.0	38.7	37.2	ug/L	EPA 8260B	10/5/07	96.8	93.0	4.02	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58899

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	58918-02	<0.50	40.0	40.0	41.2	39.1	ug/L	EPA 8260B	10/5/07	103	97.8	5.03	70-130	25
Tert-Butanol	58918-02	<5.0	200	200	203	199	ug/L	EPA 8260B	10/5/07	102	99.7	1.78	70-130	25
Methyl-t-Butyl Ether	58918-02	<0.50	40.0	40.0	42.4	41.6	ug/L	EPA 8260B	10/5/07	106	104	2.04	70-130	25
Benzene	58892-07	2.2	40.0	40.0	43.1	42.3	ug/L	EPA 8260B	10/5/07	102	100	1.90	70-130	25
Toluene	58892-07	<0.50	40.0	40.0	41.6	41.0	ug/L	EPA 8260B	10/5/07	104	102	1.67	70-130	25
Tert-Butanol	58892-07	150	200	200	354	352	ug/L	EPA 8260B	10/5/07	101	99.2	1.46	70-130	25
Methyl-t-Butyl Ether	58892-07	20	40.0	40.0	60.2	59.6	ug/L	EPA 8260B	10/5/07	100	98.5	1.62	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58899

QC Report : Laboratory Control Sample (LCS)

Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/5/07	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	10/5/07	99.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/07	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/07	103	70-130
Benzene	40.0	ug/L	EPA 8260B	10/5/07	95.7	70-130
Toluene	40.0	ug/L	EPA 8260B	10/5/07	98.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/07	98.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/07	101	70-130
Benzene	40.0	ug/L	EPA 8260B	10/5/07	95.5	70-130
Toluene	40.0	ug/L	EPA 8260B	10/5/07	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/07	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/07	106	70-130
Benzene	40.0	ug/L	EPA 8260B	10/5/07	95.3	70-130
Toluene	40.0	ug/L	EPA 8260B	10/5/07	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/07	99.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/07	108	70-130
Benzene	40.0	ug/L	EPA 8260B	10/5/07	103	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 58899

QC Report : Laboratory Control Sample (LCS)

Date : 10/11/2007

Project Name : **Rolls-Royce Engine Test**

Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	10/5/07	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/5/07	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/5/07	102	70-130

Approved By: Joel Kiff

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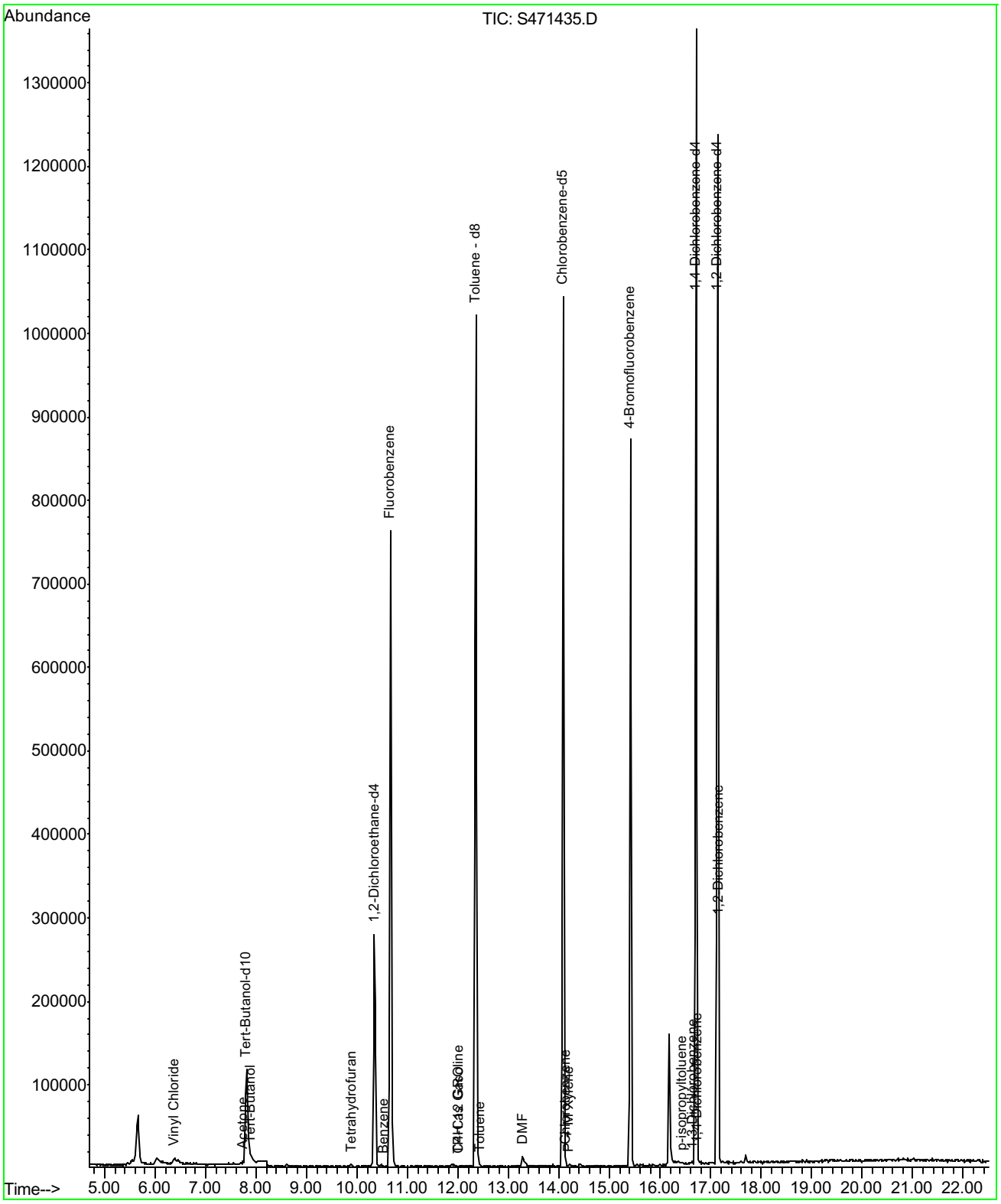
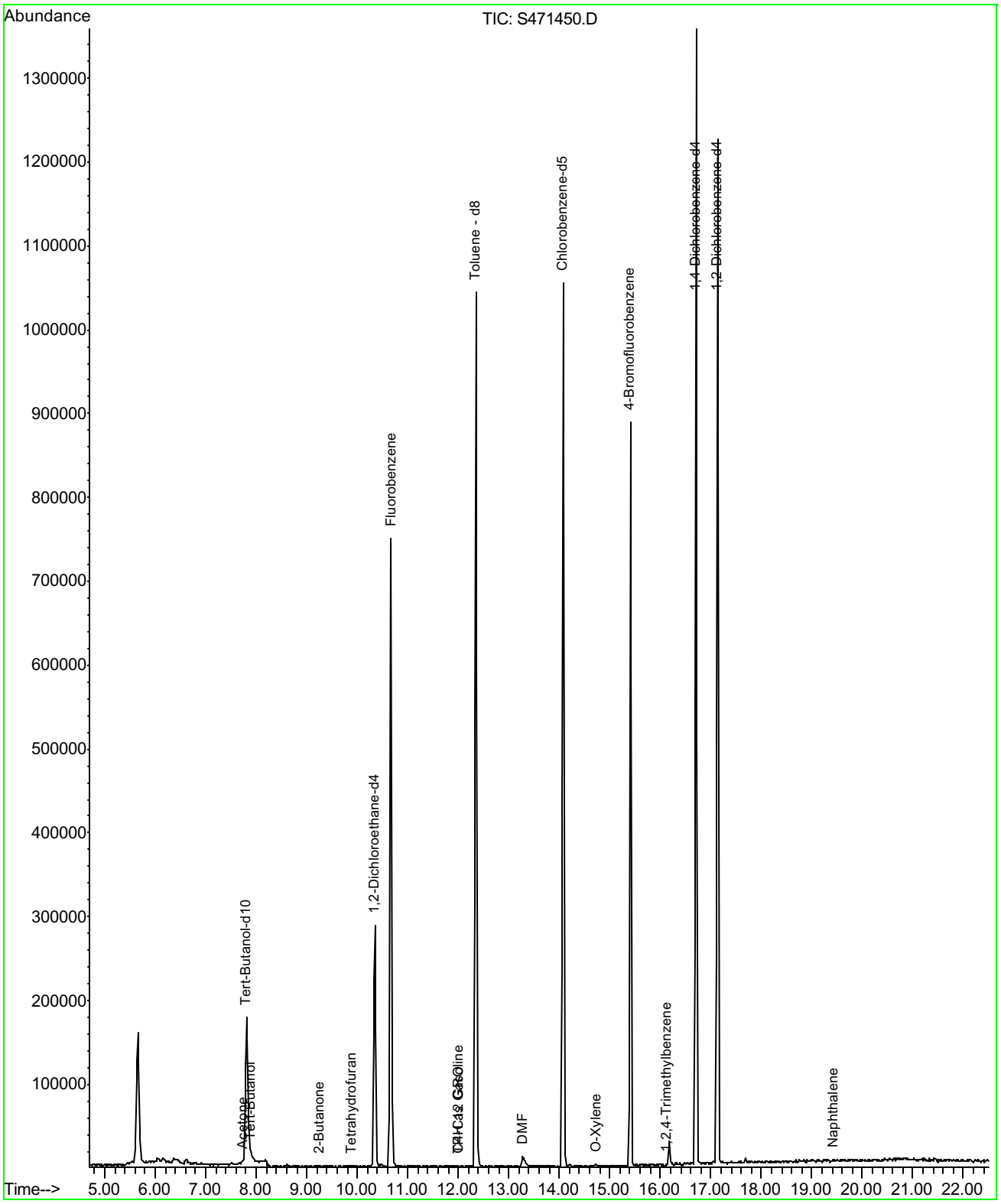
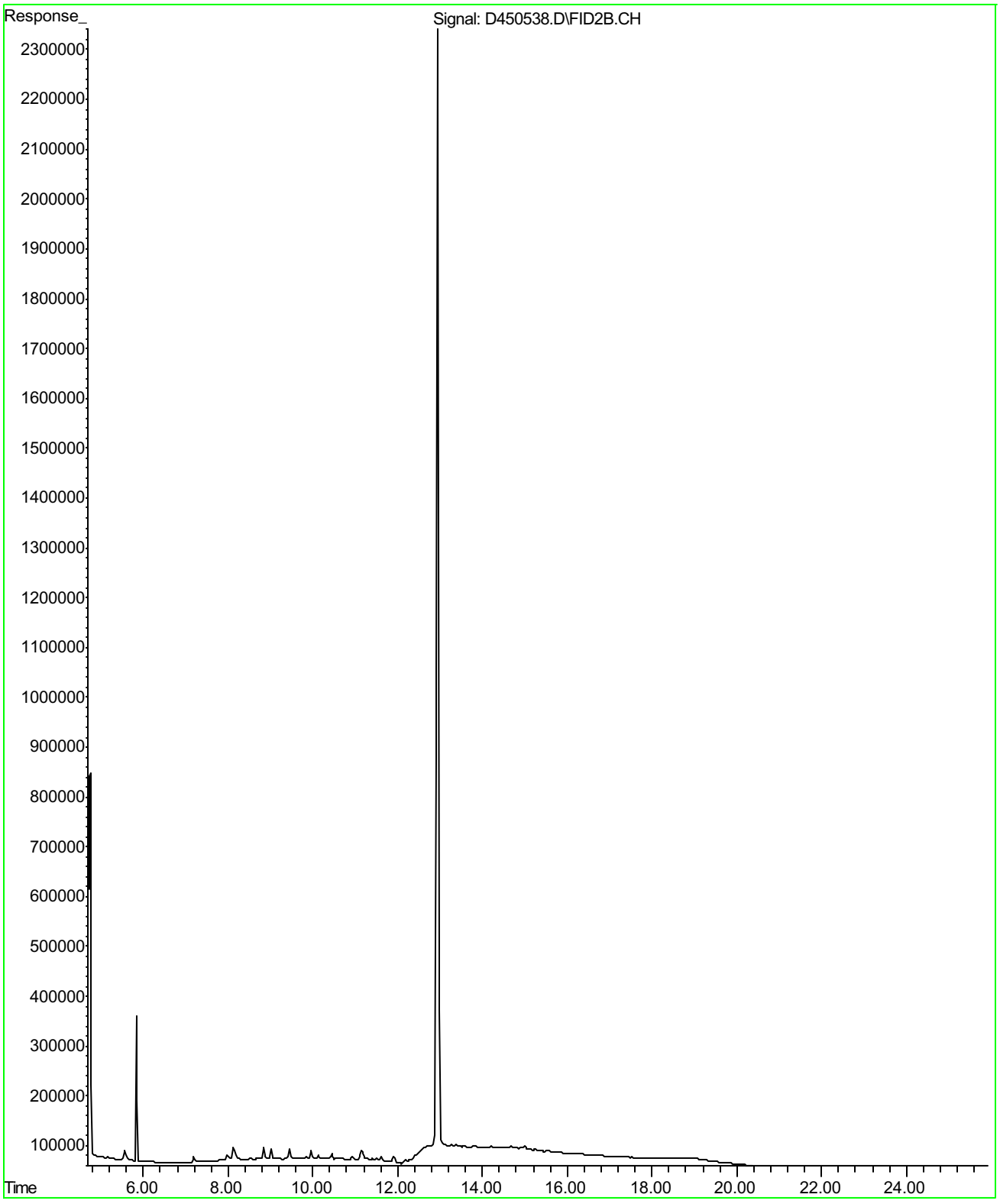
Sample ID : 58899-01 (QA)
Date Analyzed : 10/05/07
Data File : S471435
Analysis Method : EPA 8260B



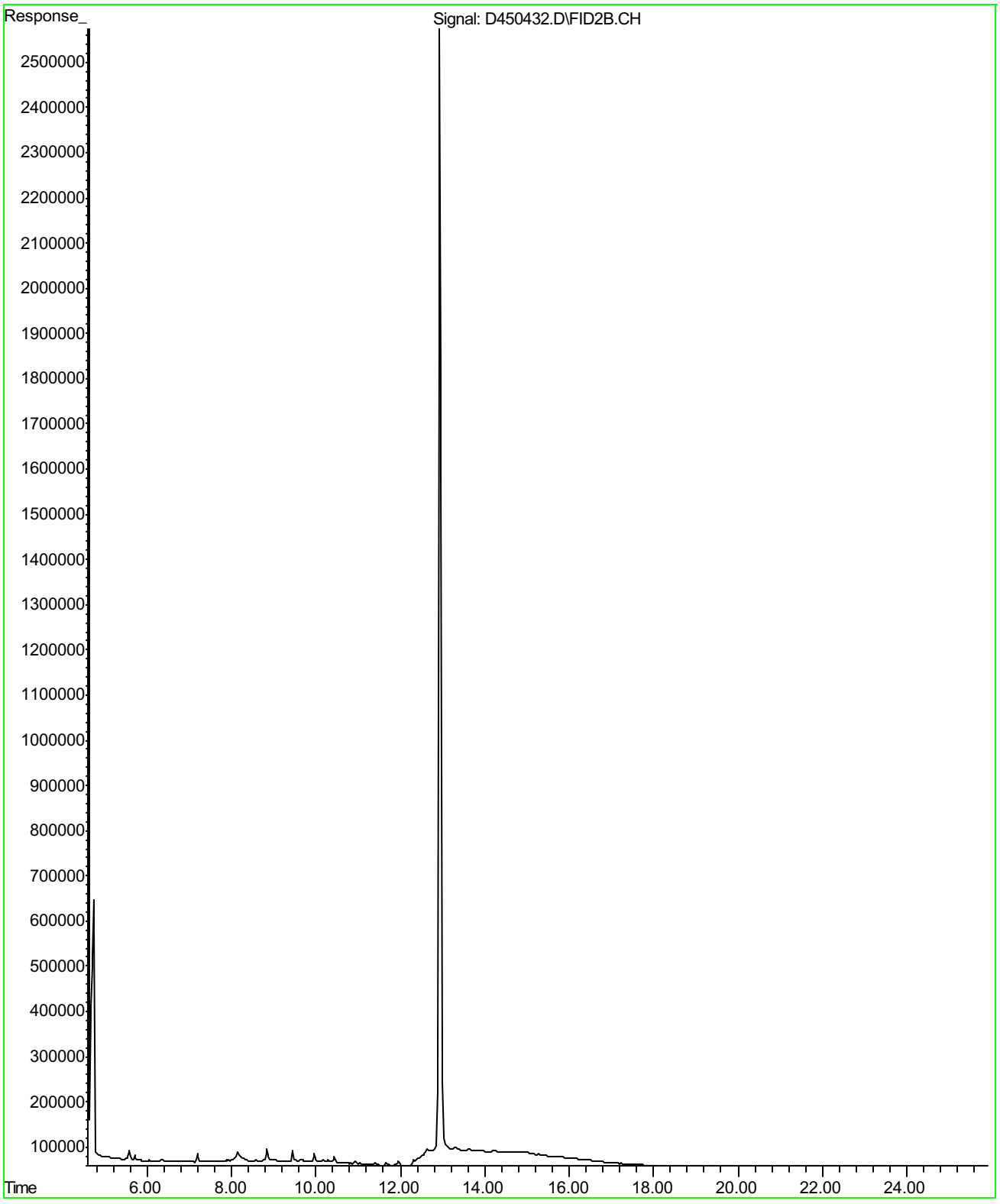
Sample ID : 58899-02 (MW-1)
Date Analyzed : 10/05/07
Data File : S471450
Analysis Method : EPA 8260B



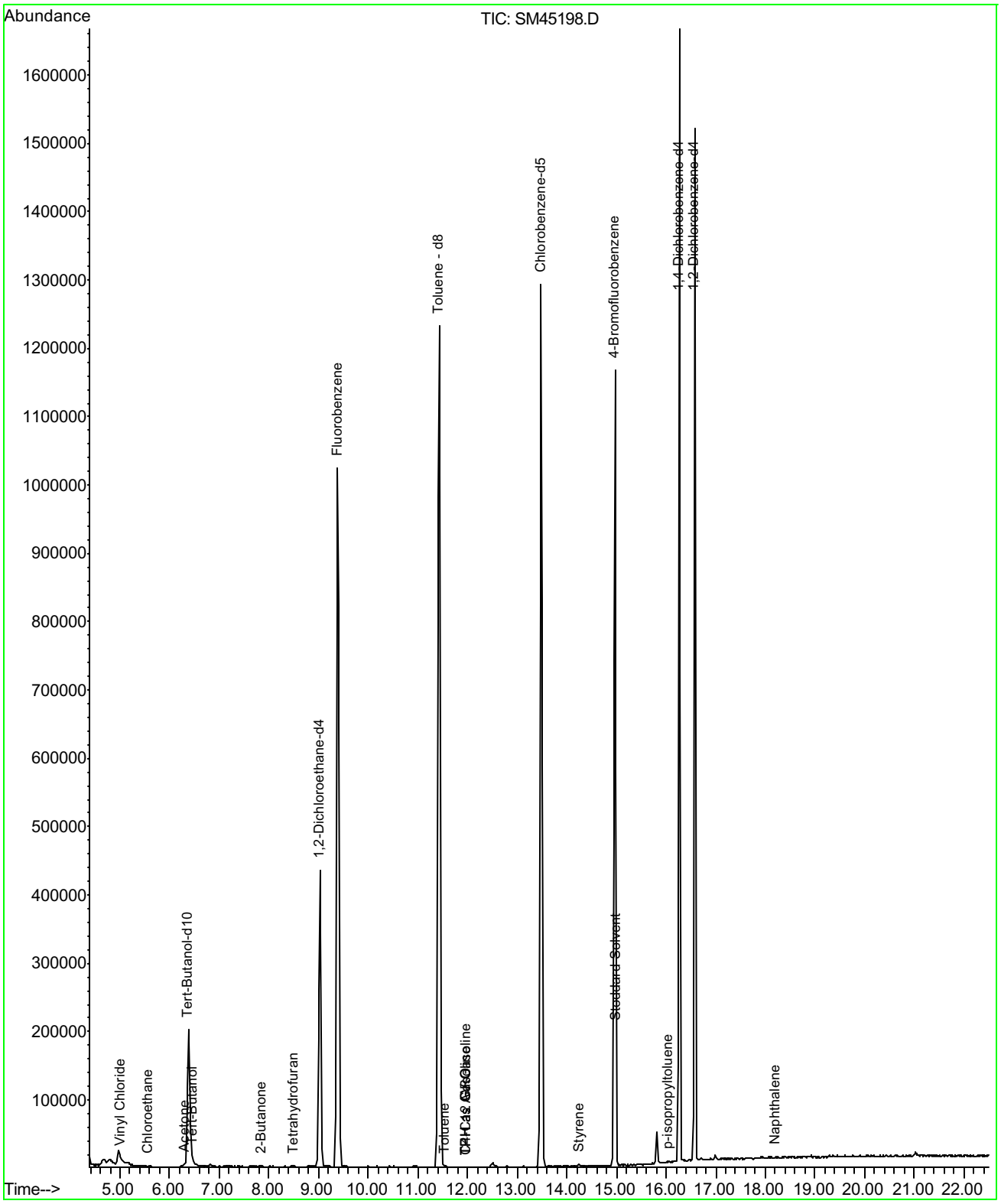
Sample ID : 58899-02 (MW-1)
Date Analyzed : 10/09/07
Data File : D450538
Analysis Method : M EPA 8015



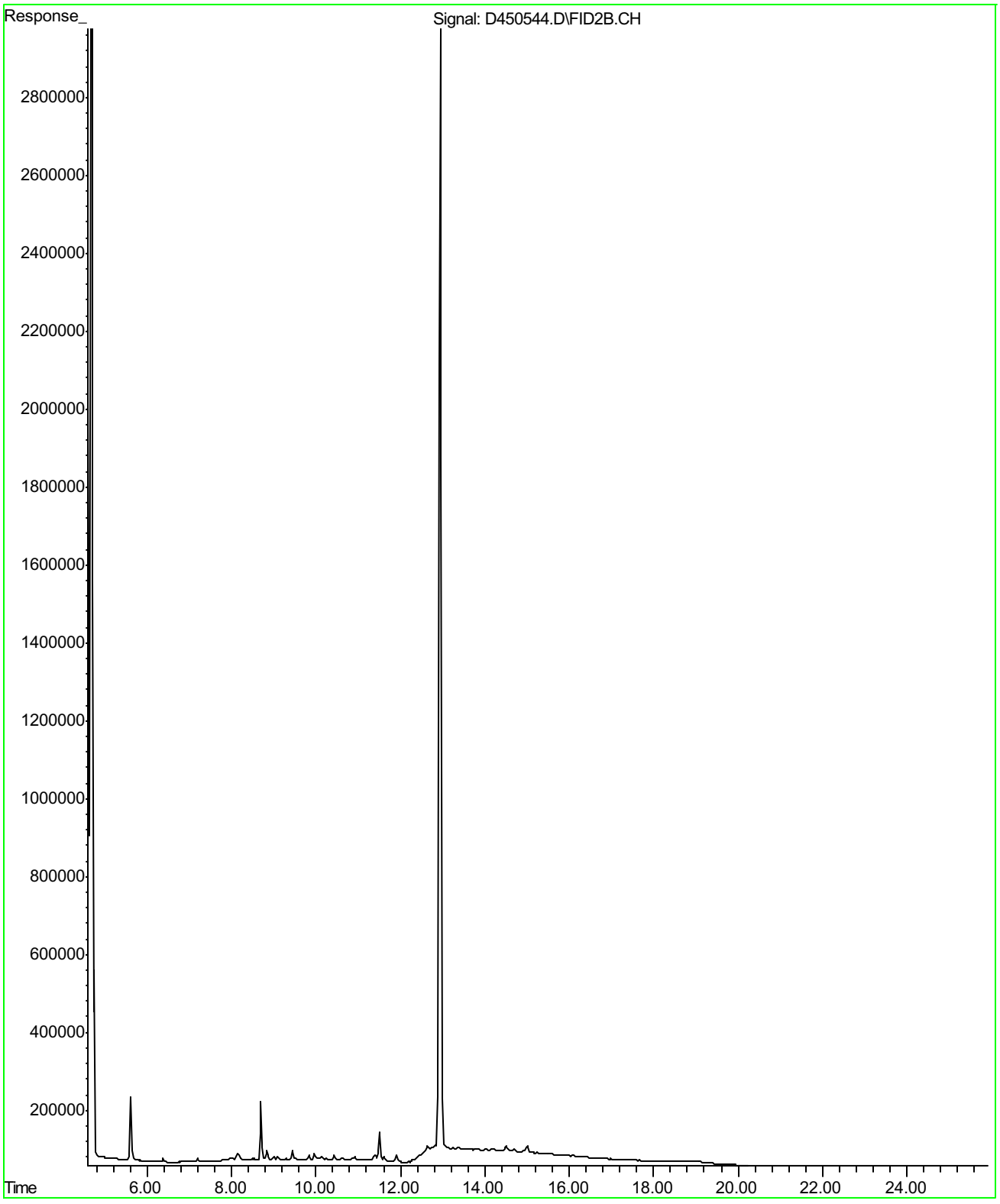
Sample ID : 58899-02 SI (MW-1)
Date Analyzed : 10/05/07
Data File : D450432
Analysis Method : M EPA 8015



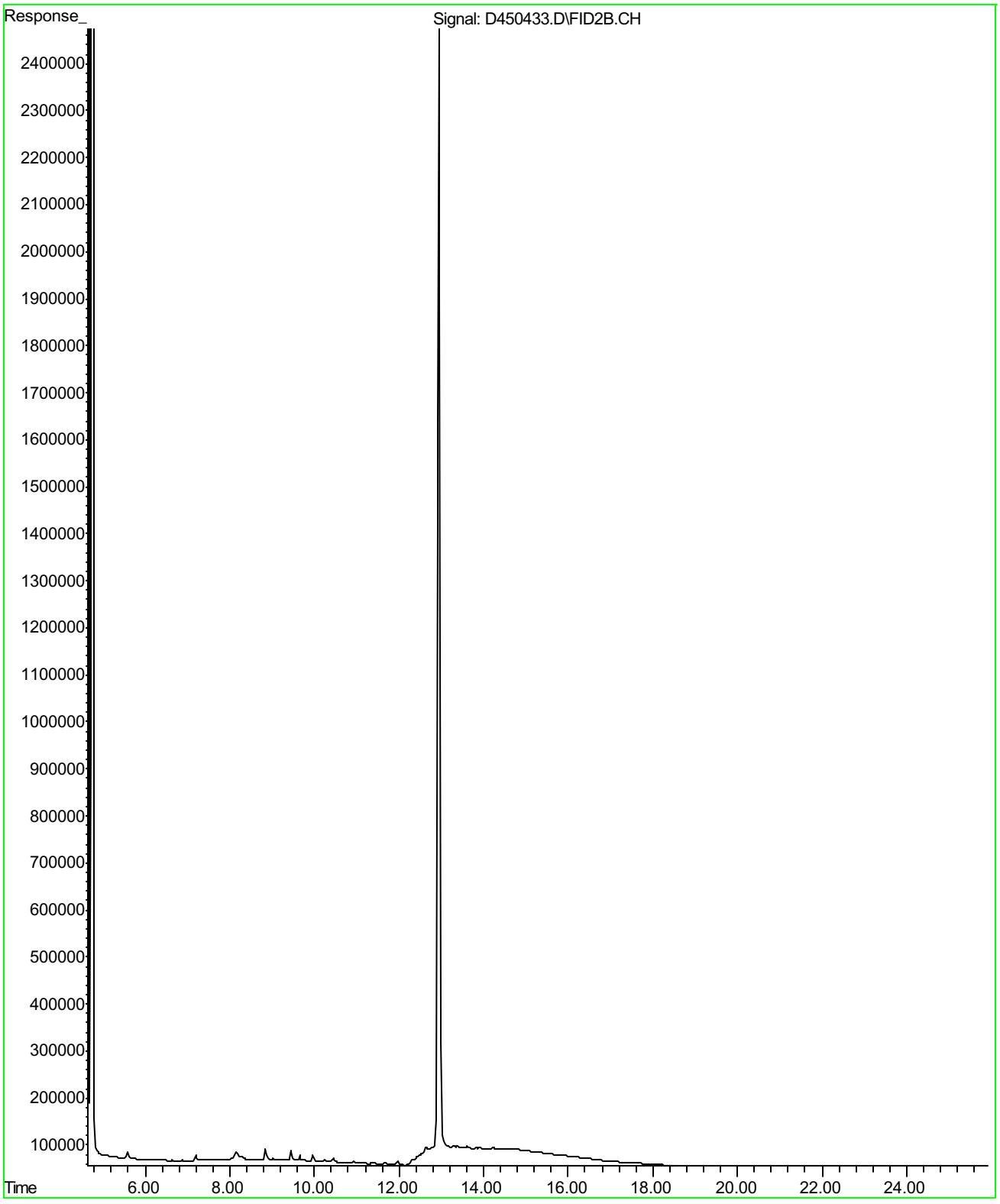
Sample ID : 58899-03 (MW-2)
Date Analyzed : 10/05/07
Data File : SM45198
Analysis Method : EPA 8260B



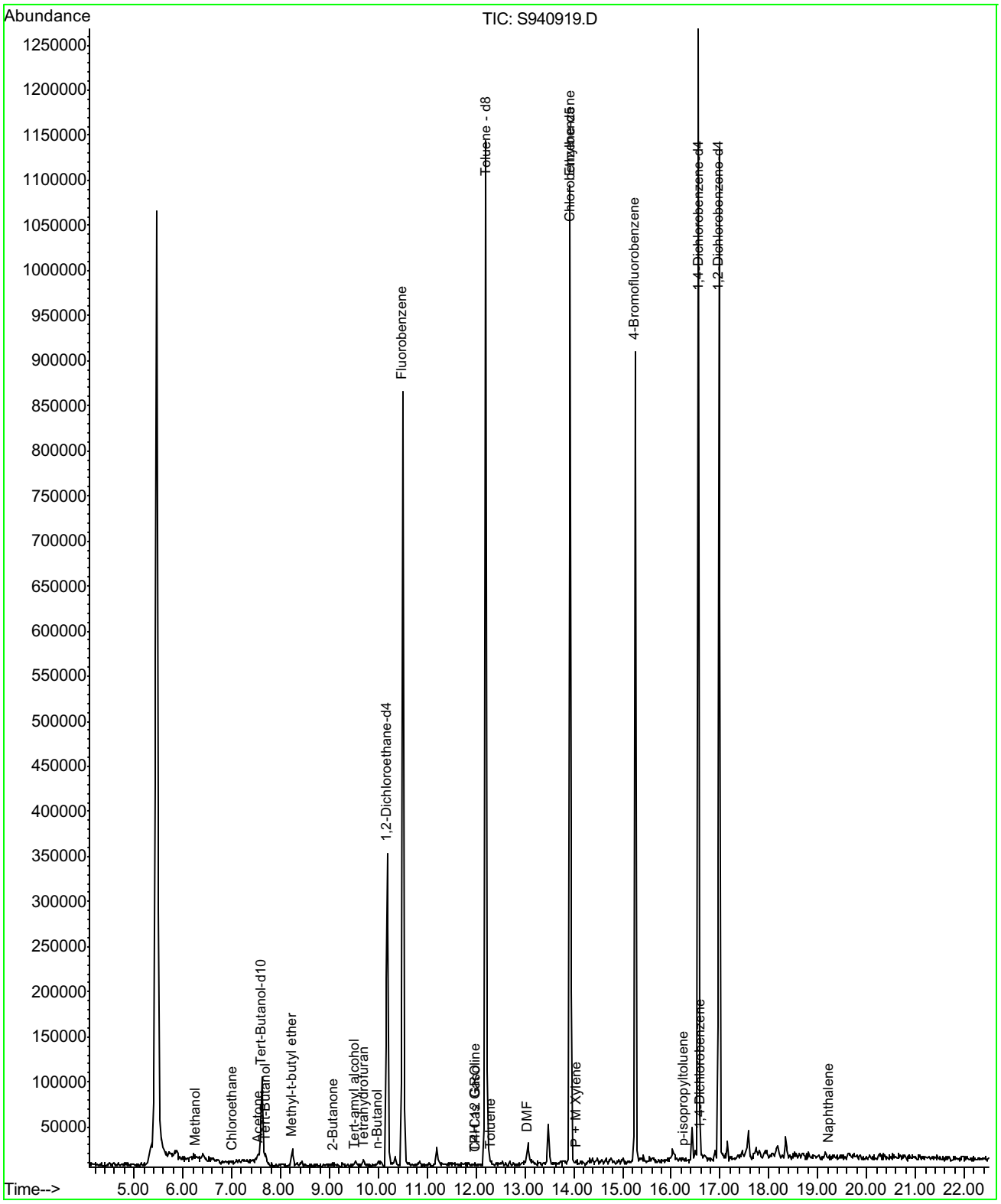
Sample ID : 58899-03 (MW-2)
Date Analyzed : 10/10/07
Data File : D450544
Analysis Method : M EPA 8015



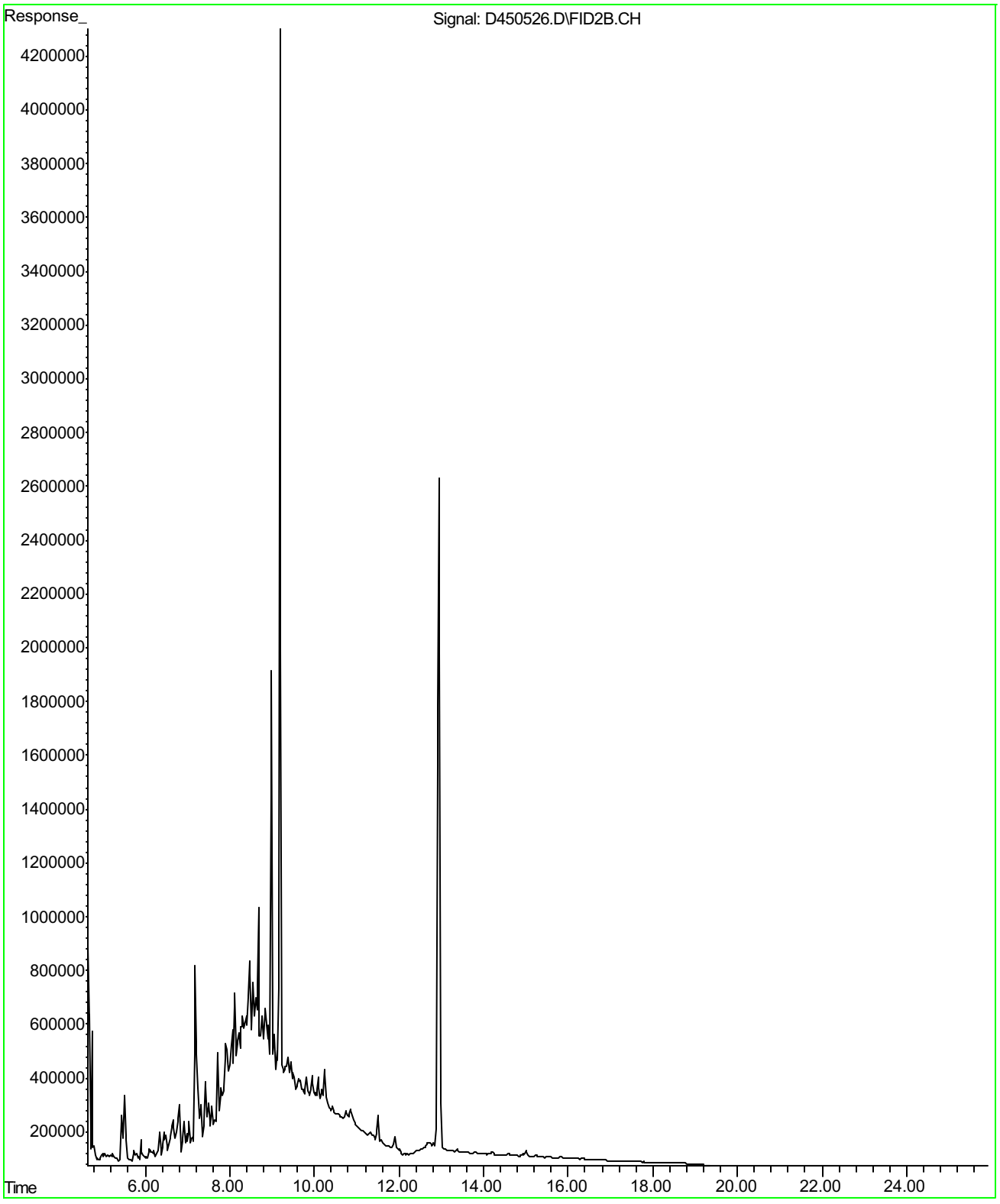
Sample ID : 58899-03 SI (MW-2)
Date Analyzed : 10/05/07
Data File : D450433
Analysis Method : M EPA 8015



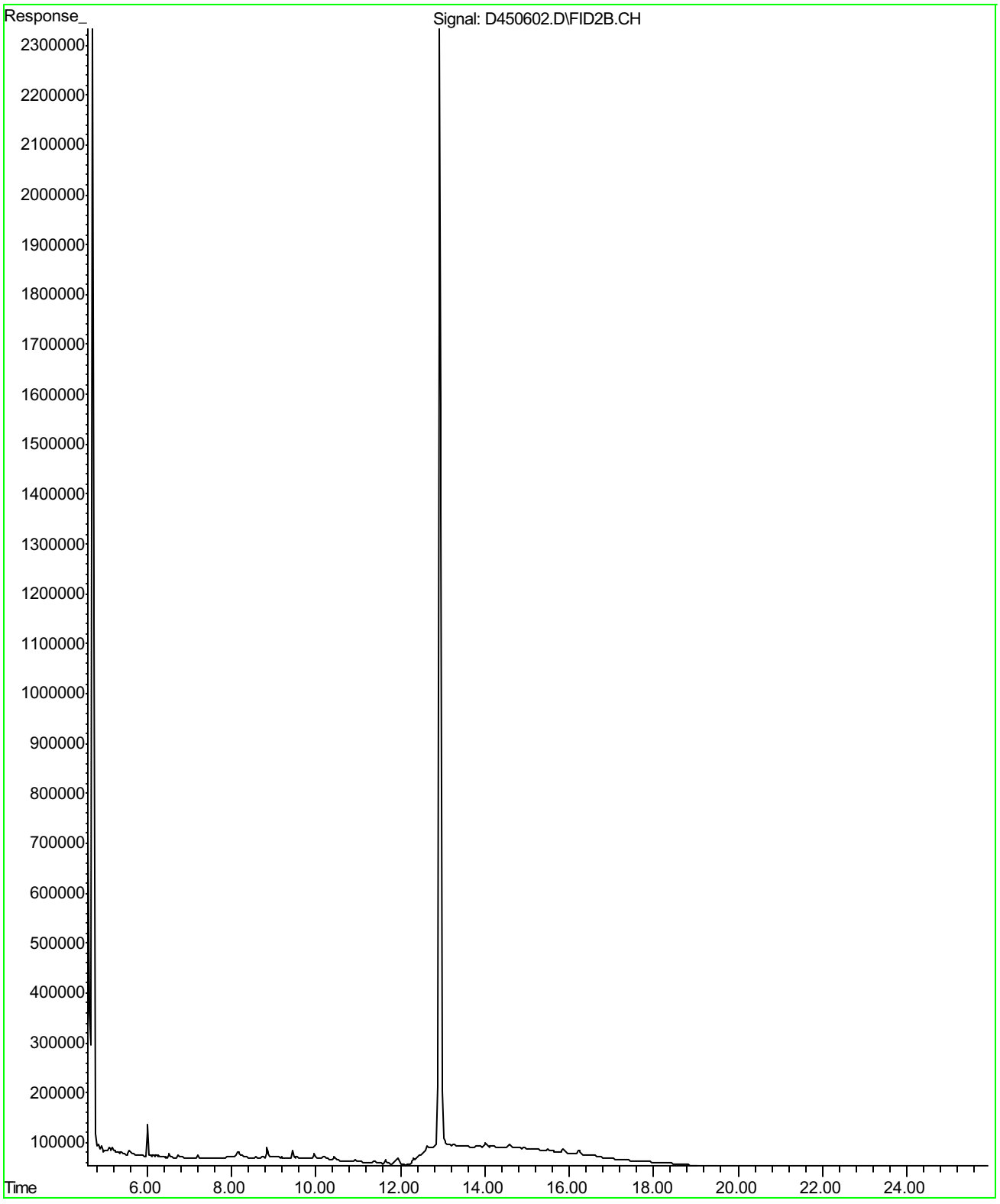
Sample ID : 58899-04 (MW-3)
Date Analyzed : 10/05/07
Data File : S940919
Analysis Method : EPA 8260B



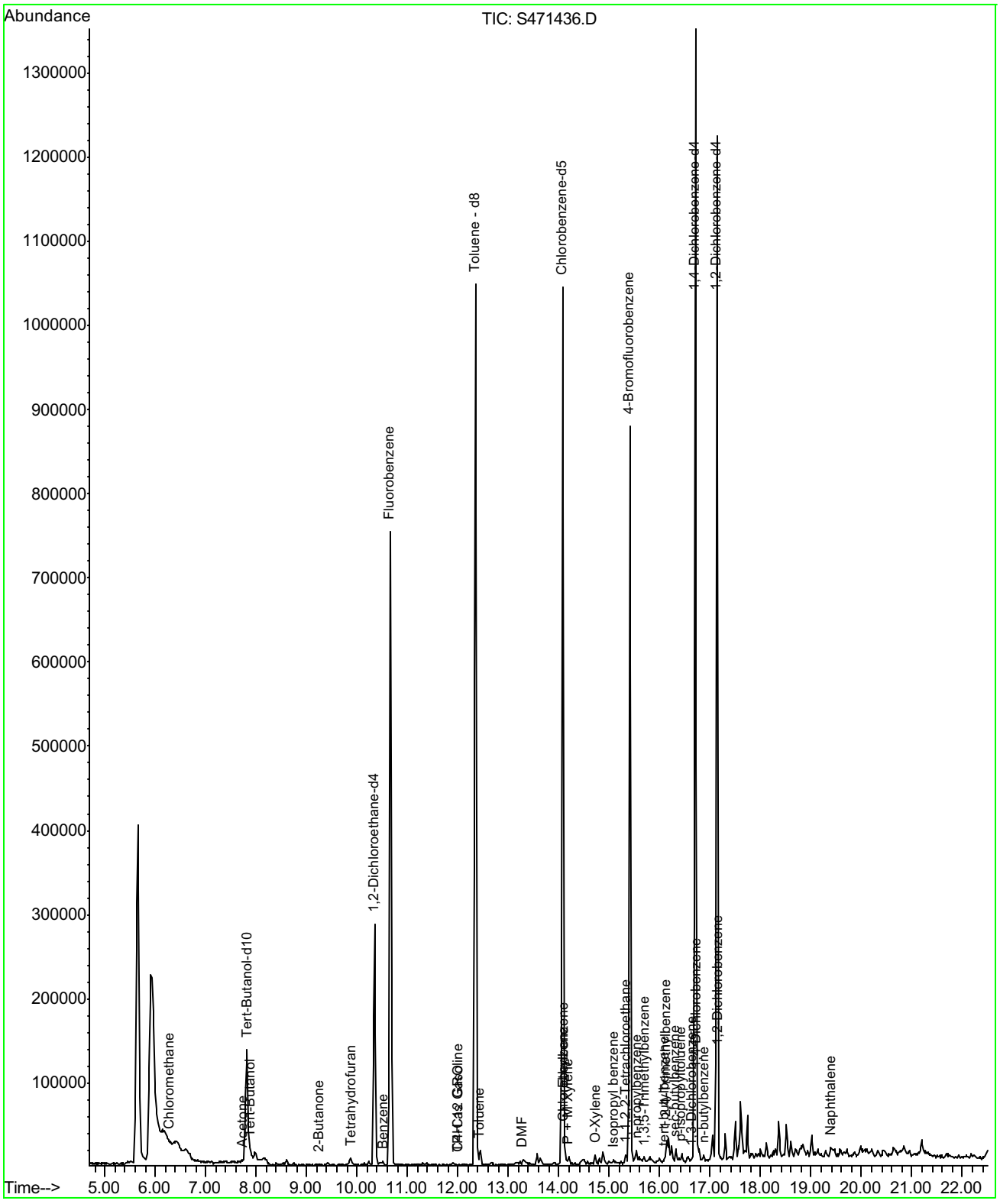
Sample ID : 58899-04 (MW-3)
Date Analyzed : 10/09/07
Data File : D450526
Analysis Method : M EPA 8015



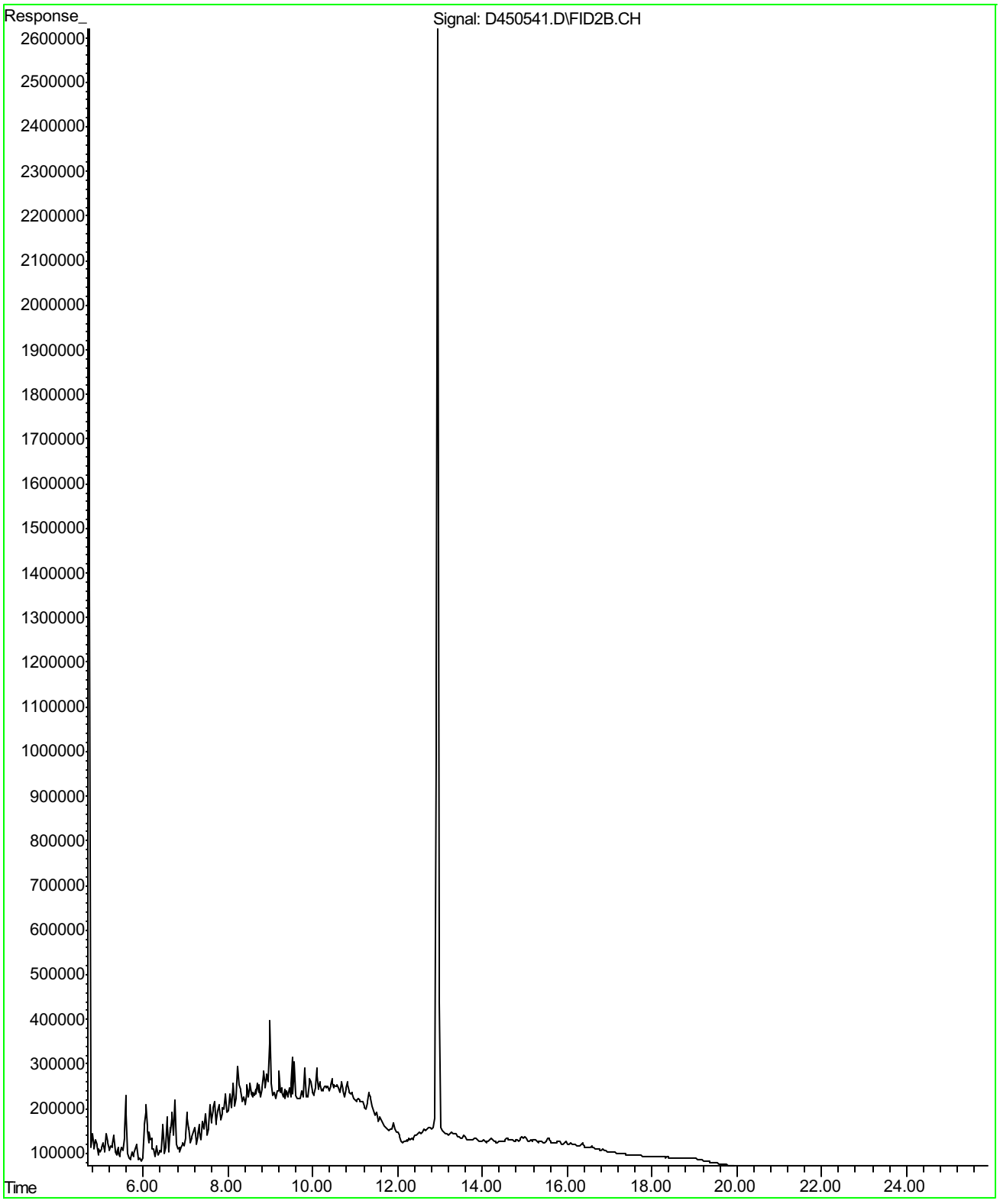
Sample ID : 58899-04 SI (MW-3)
Date Analyzed : 10/11/07
Data File : D450602
Analysis Method : M EPA 8015



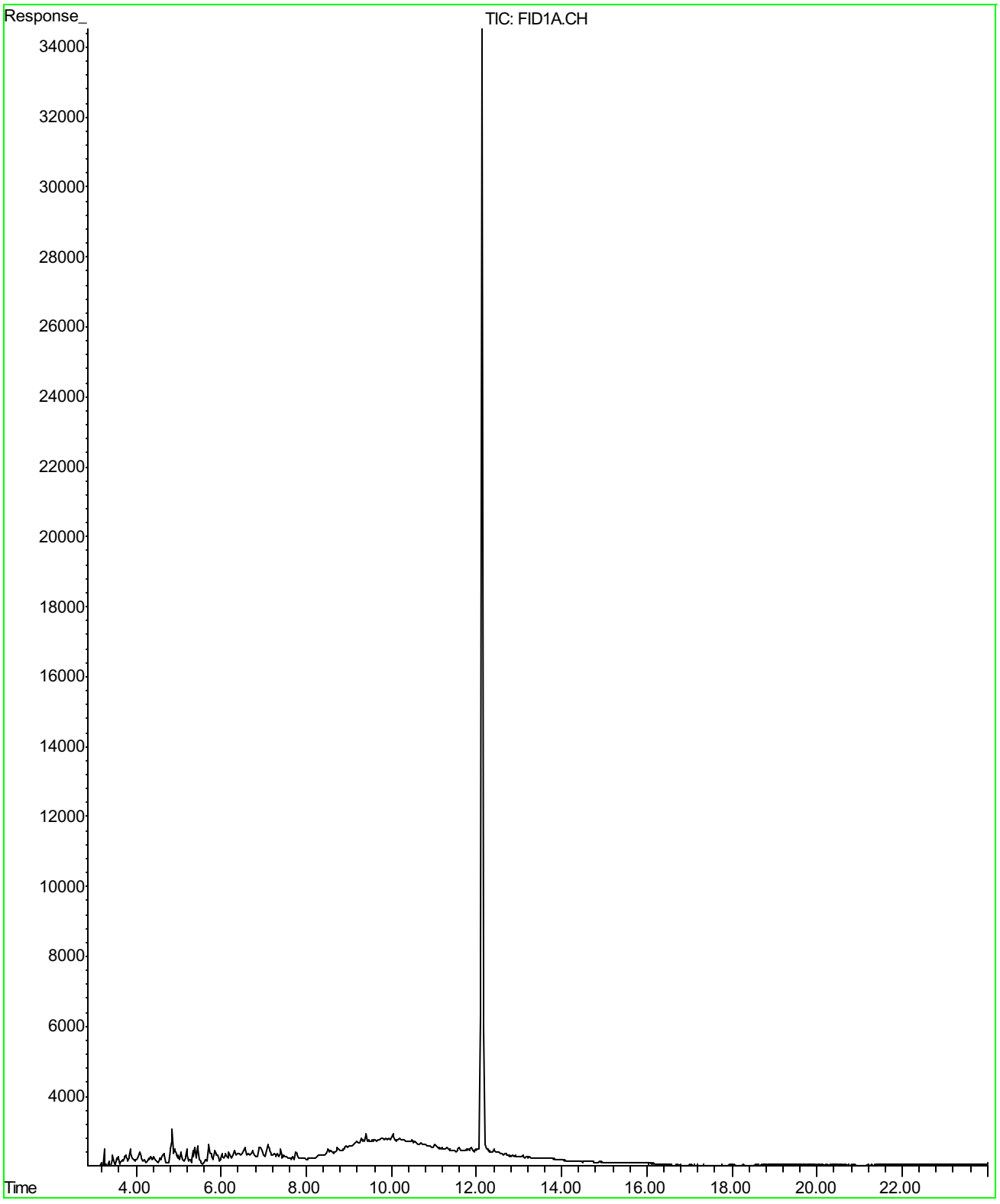
Sample ID : 58899-05 (MW-4)
Date Analyzed : 10/05/07
Data File : S471436
Analysis Method : EPA 8260B



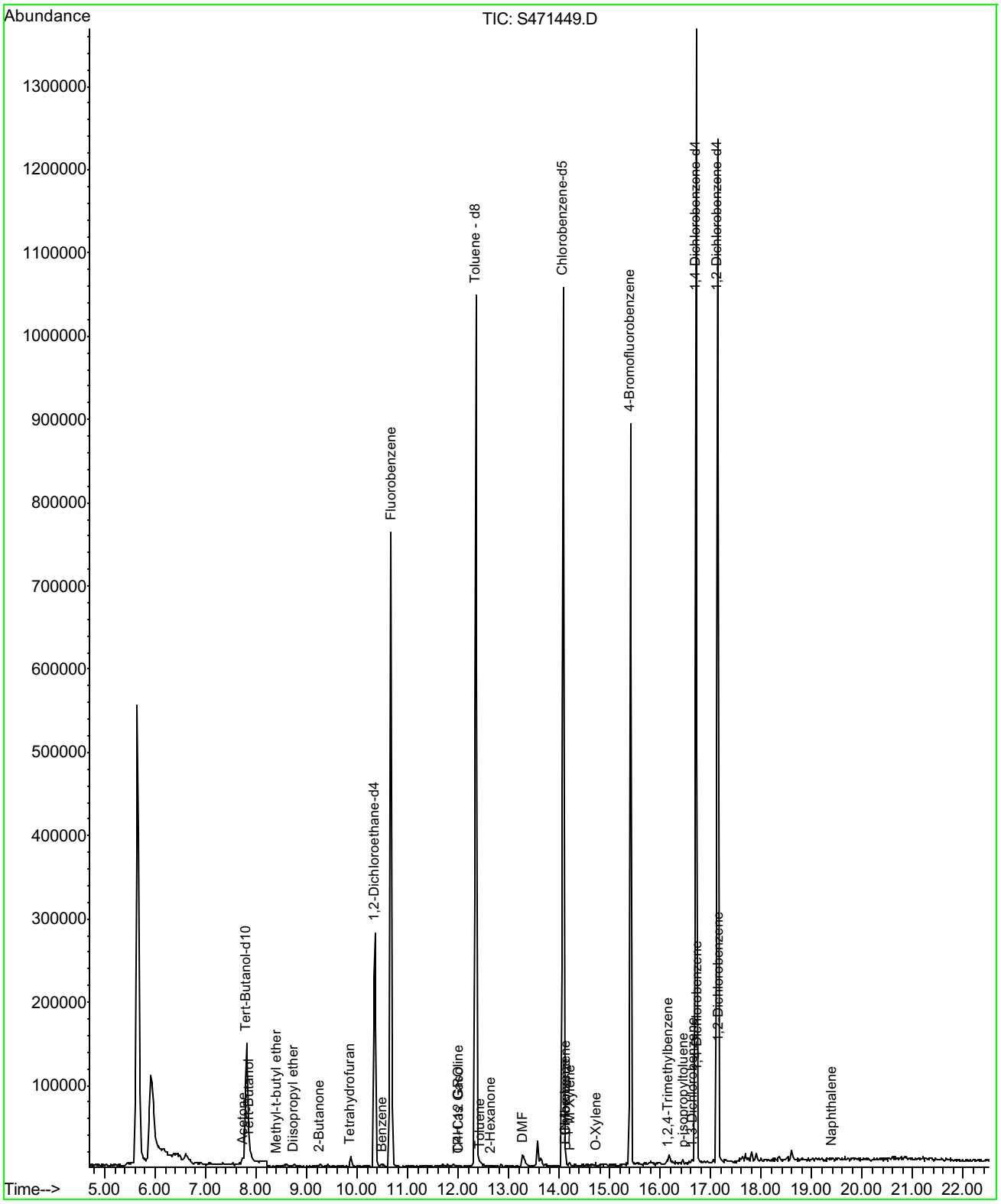
Sample ID : 58899-05 (MW-4)
Date Analyzed : 10/09/07
Data File : D450541
Analysis Method : M EPA 8015



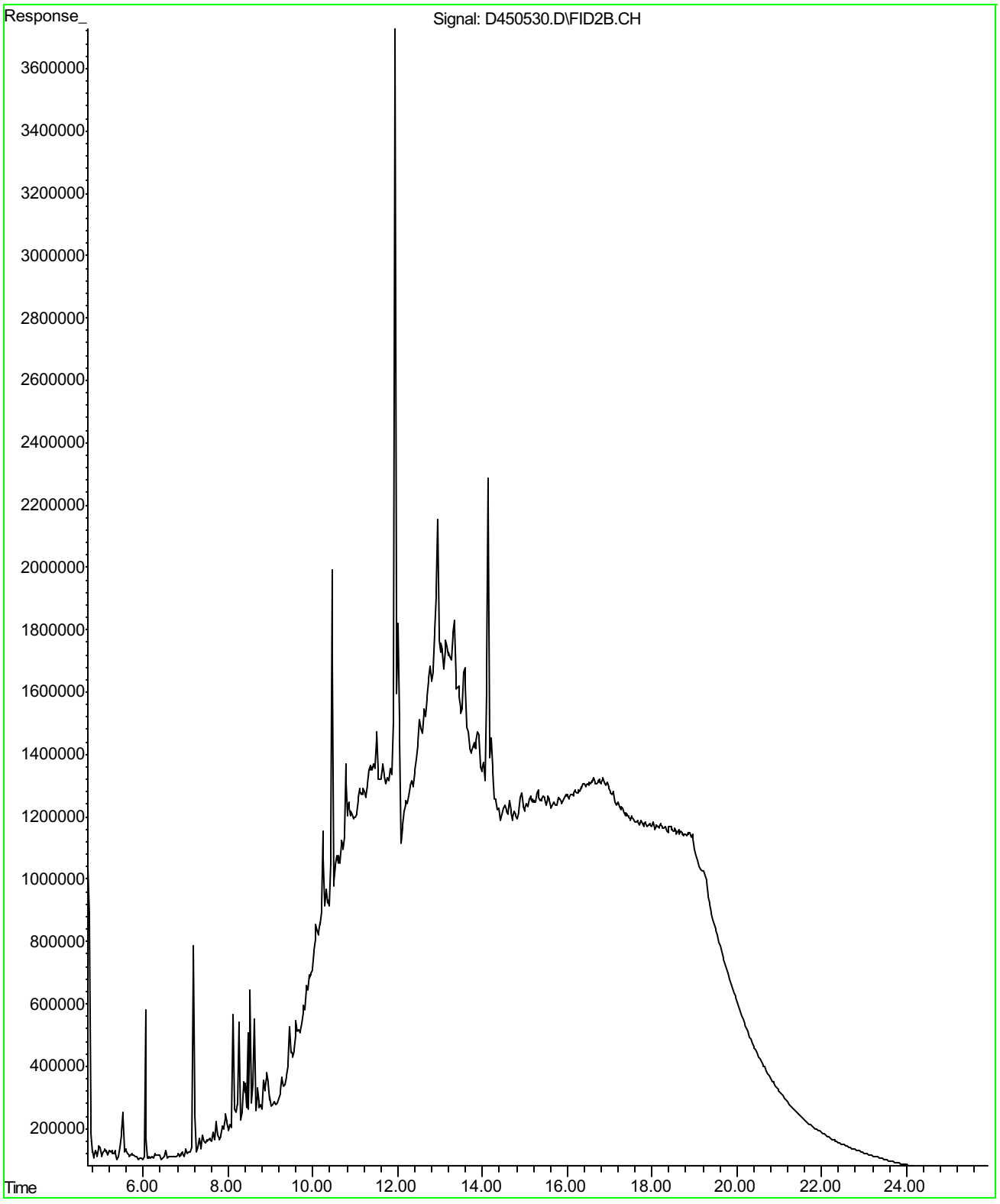
Sample ID : 58899-05 SI (MW-4)
Date Analyzed : 10/10/07
Data File : D274136
Analysis Method : M EPA 8015



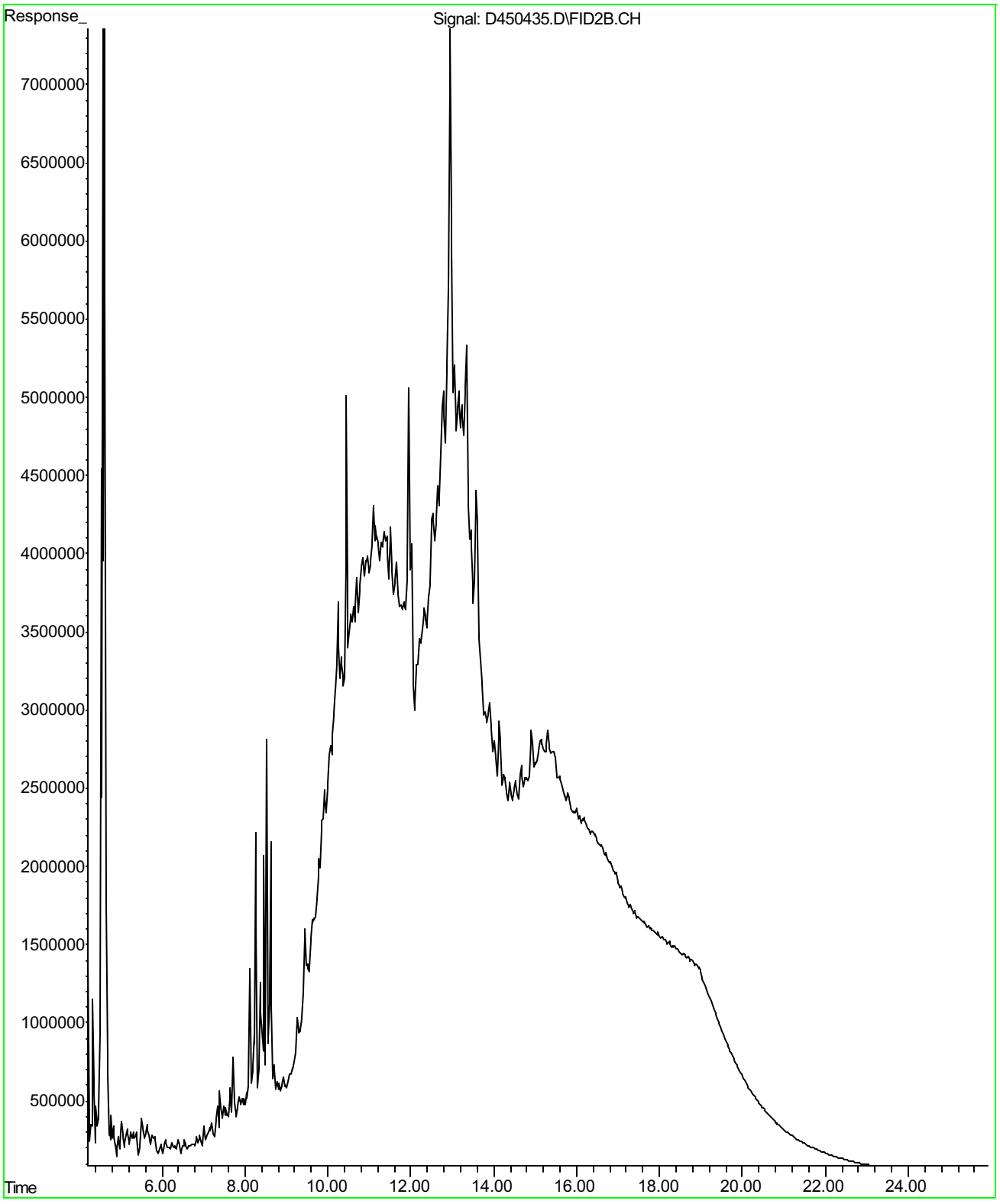
Sample ID : 58899-06 (MW-5)
Date Analyzed : 10/05/07
Data File : S471449
Analysis Method : EPA 8260B



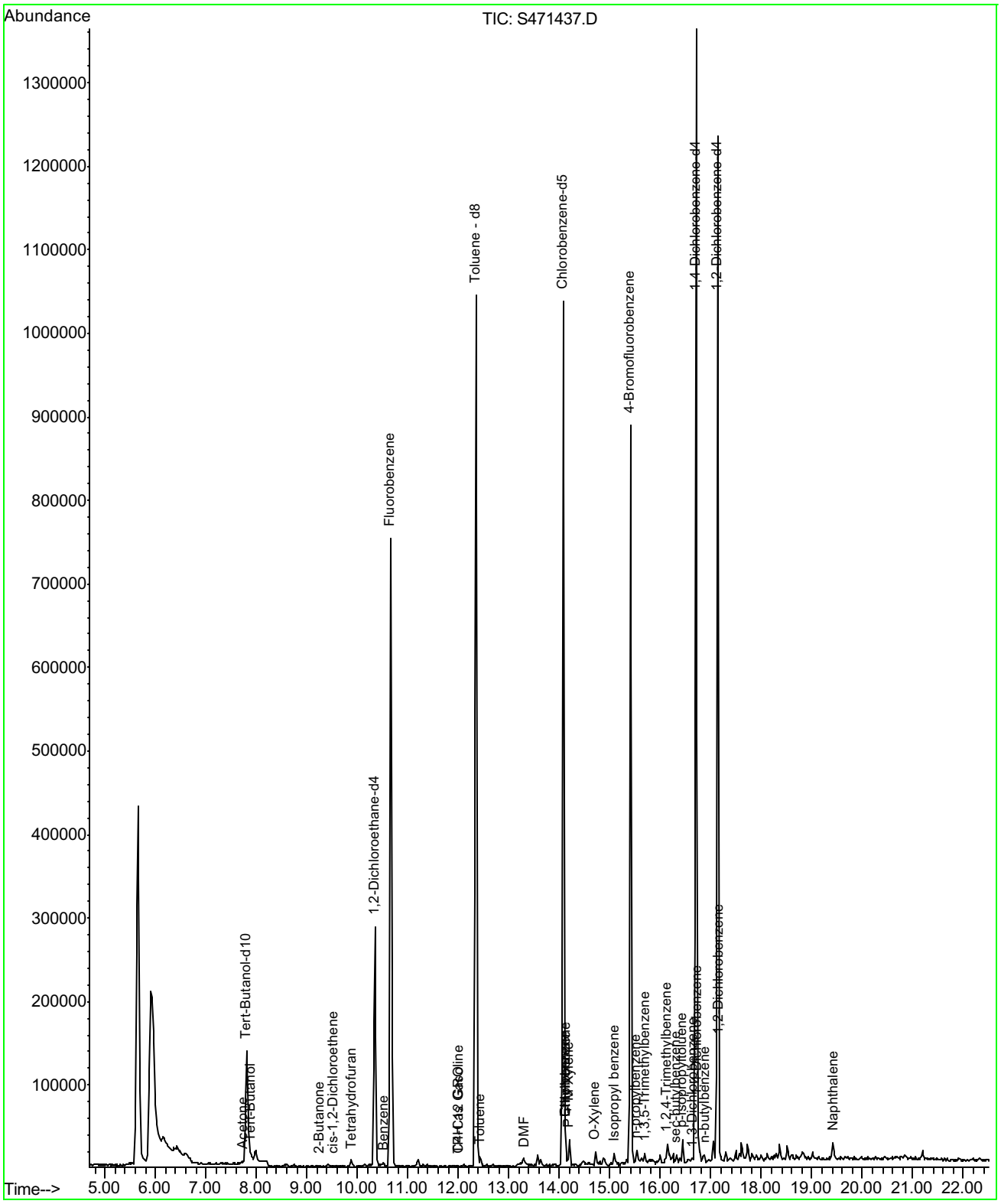
Sample ID : 58899-06 (MW-5)
Date Analyzed : 10/09/07
Data File : D450530
Analysis Method : M EPA 8015



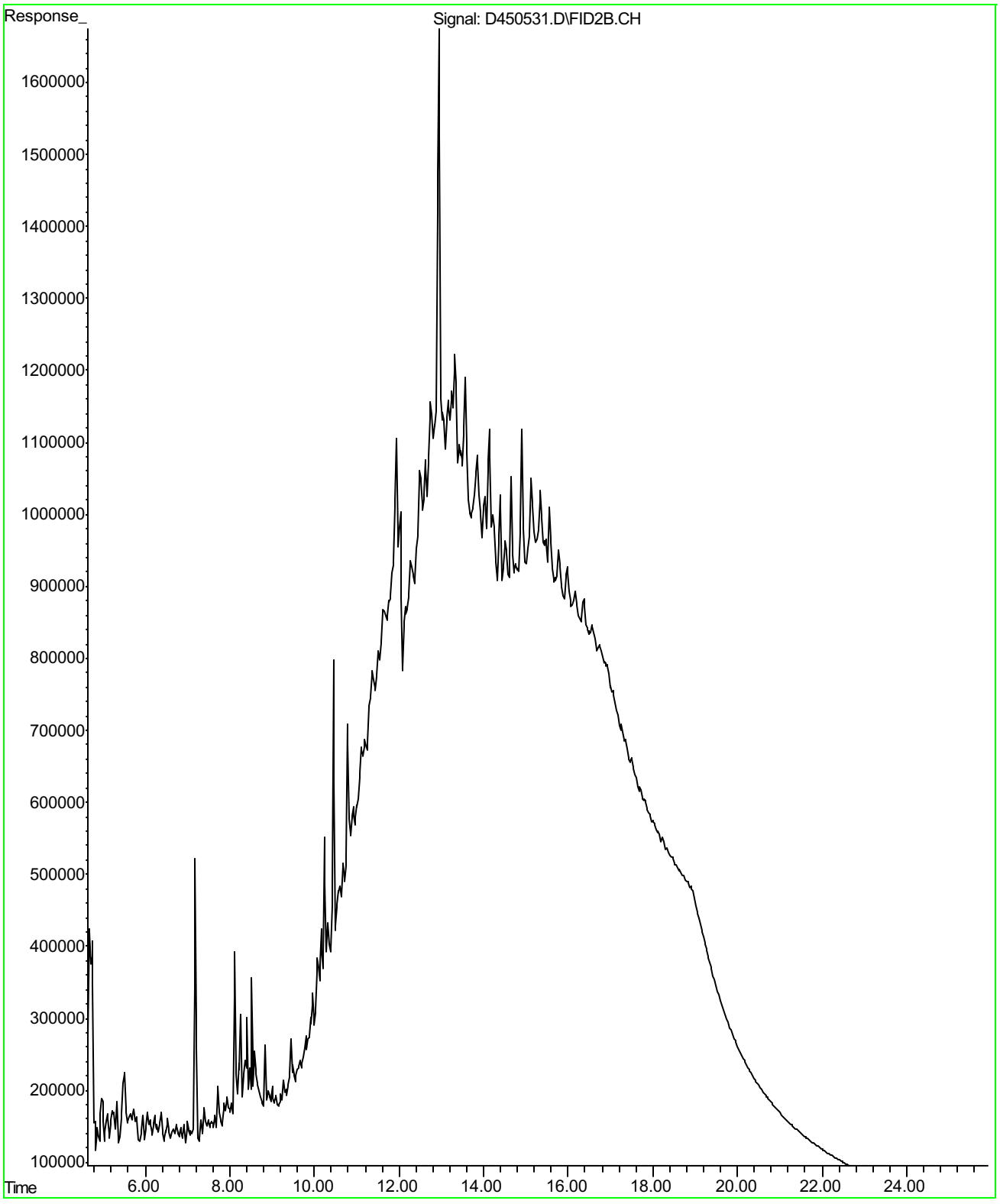
Sample ID : 58899-06 SI (MW-5)
Date Analyzed : 10/06/07
Data File : D450435
Analysis Method : M EPA 8015



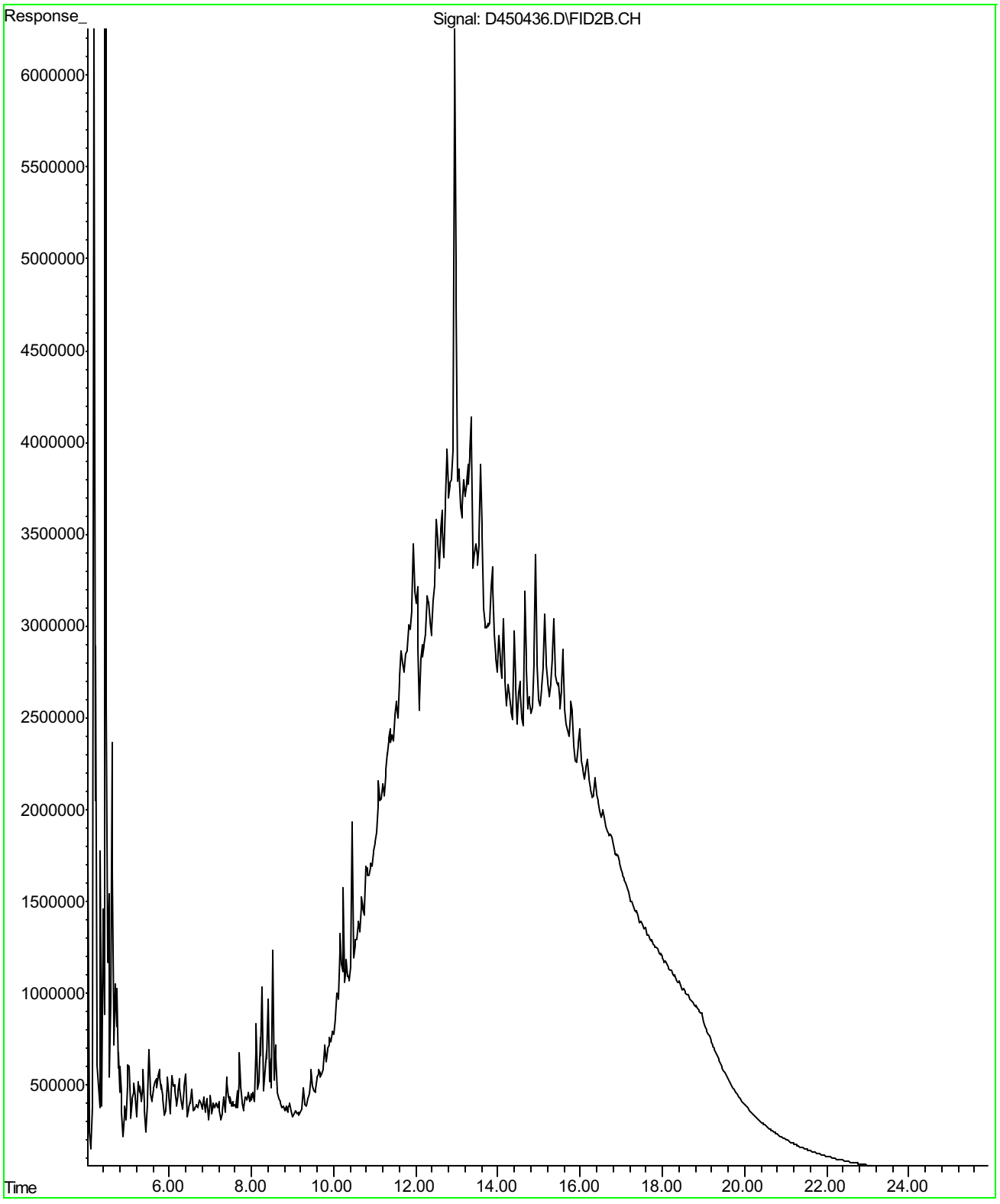
Sample ID : 58899-07 (MW-6)
Date Analyzed : 10/05/07
Data File : S471437
Analysis Method : EPA 8260B



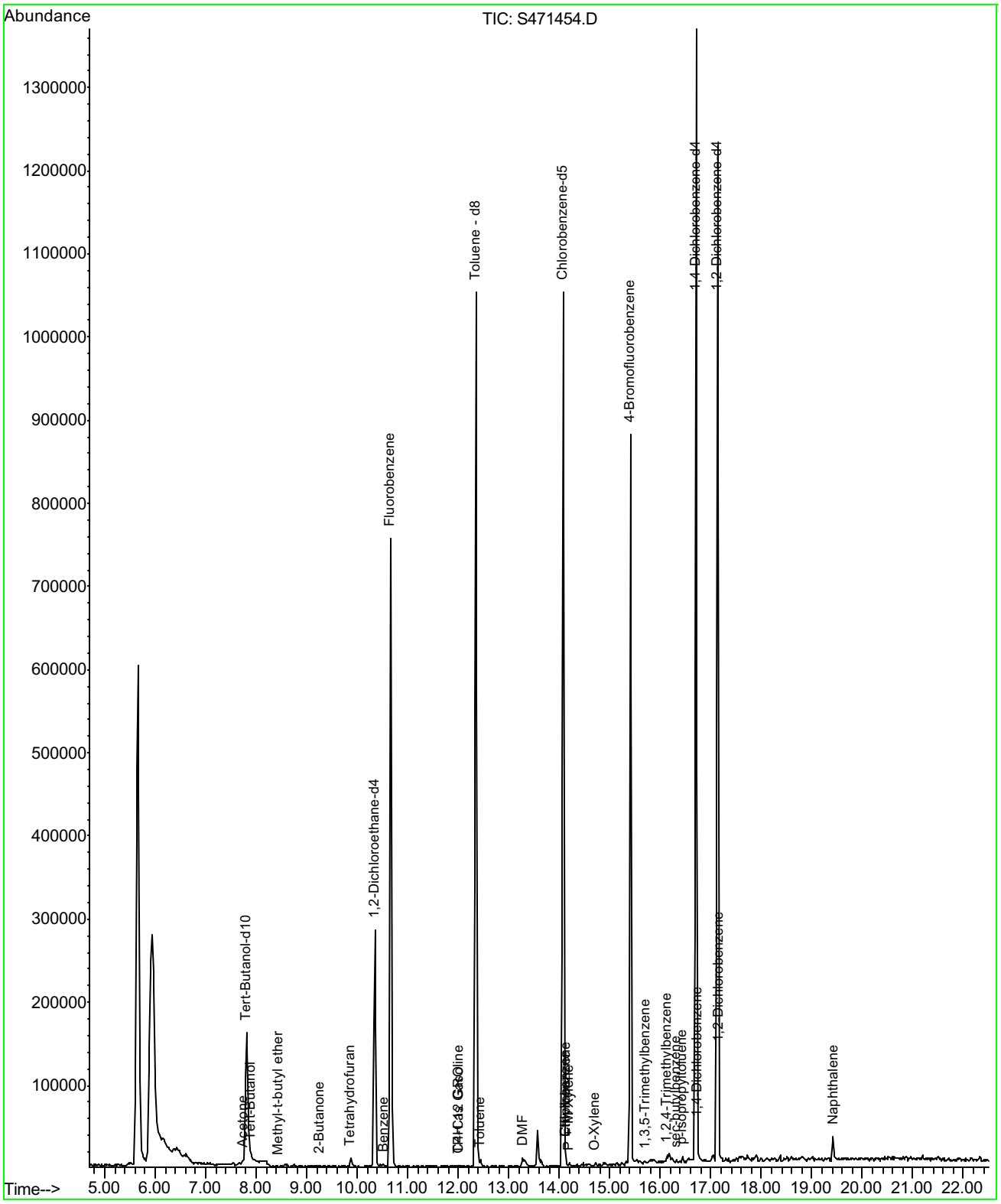
Sample ID : 58899-07 (MW-6)
Date Analyzed : 10/09/07
Data File : D450531
Analysis Method : M EPA 8015



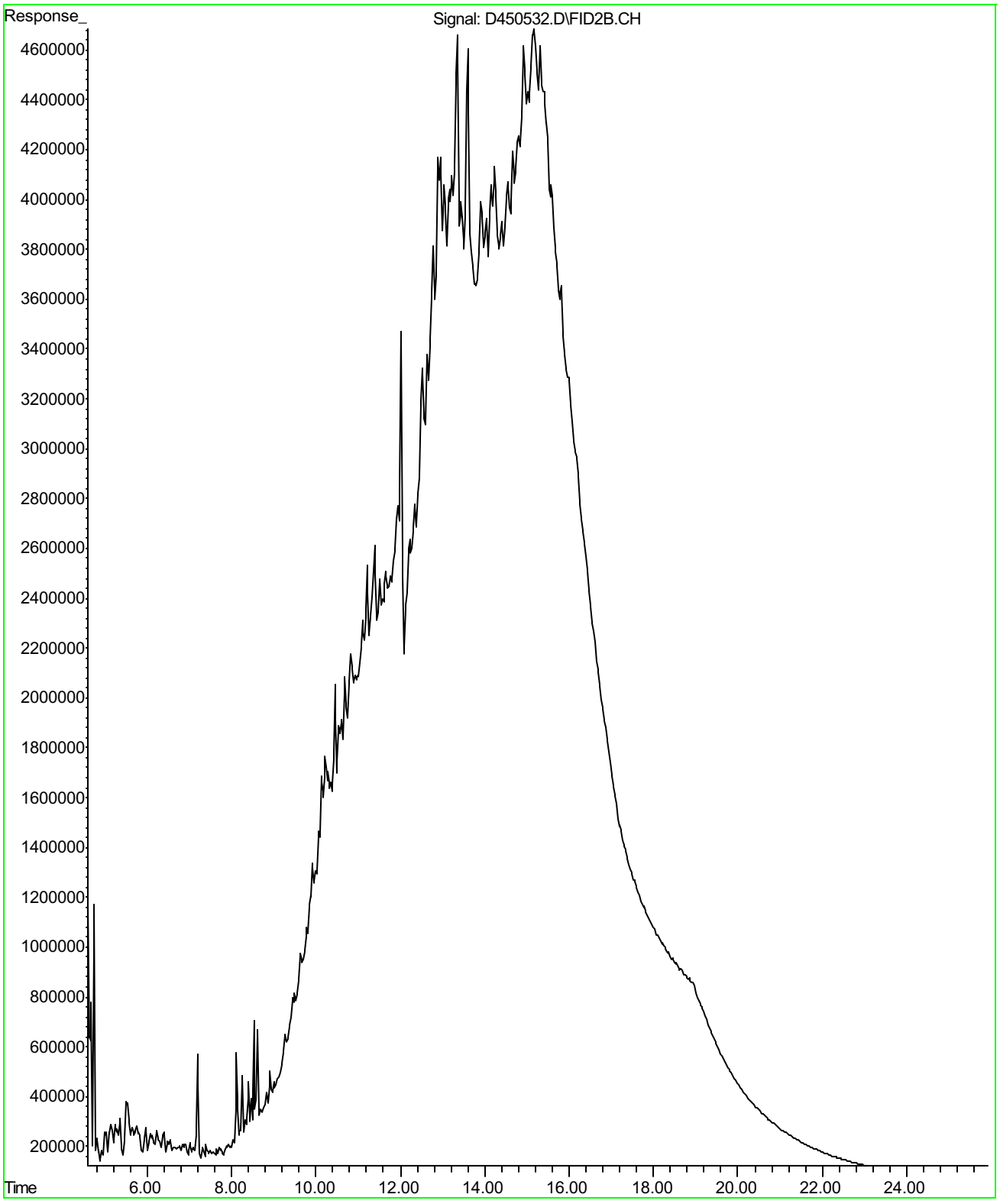
Sample ID : 58899-07 SI (MW-6)
Date Analyzed : 10/06/07
Data File : D450436
Analysis Method : M EPA 8015



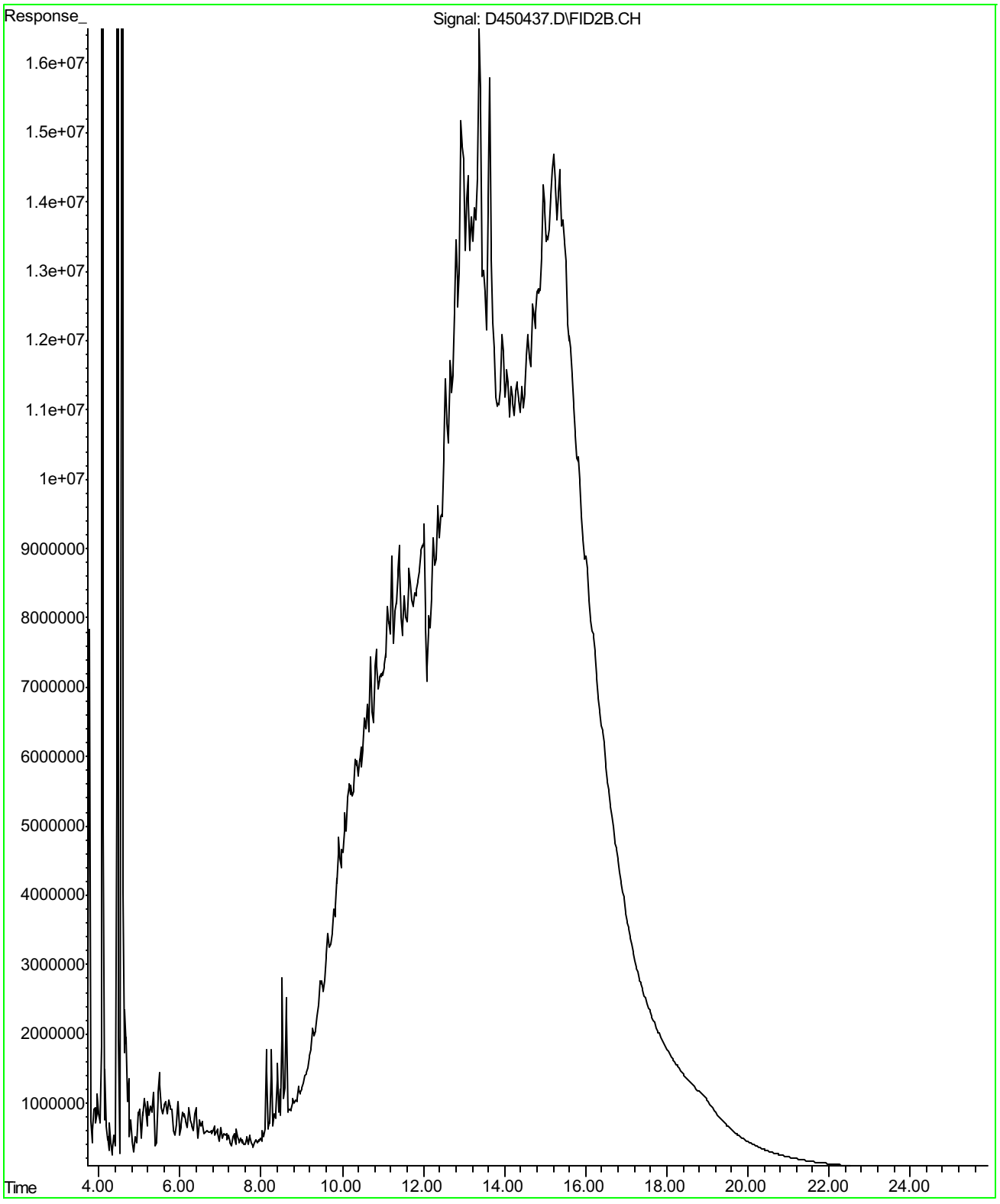
Sample ID : 58899-08 (MW-7)
Date Analyzed : 10/06/07
Data File : S471454
Analysis Method : EPA 8260B



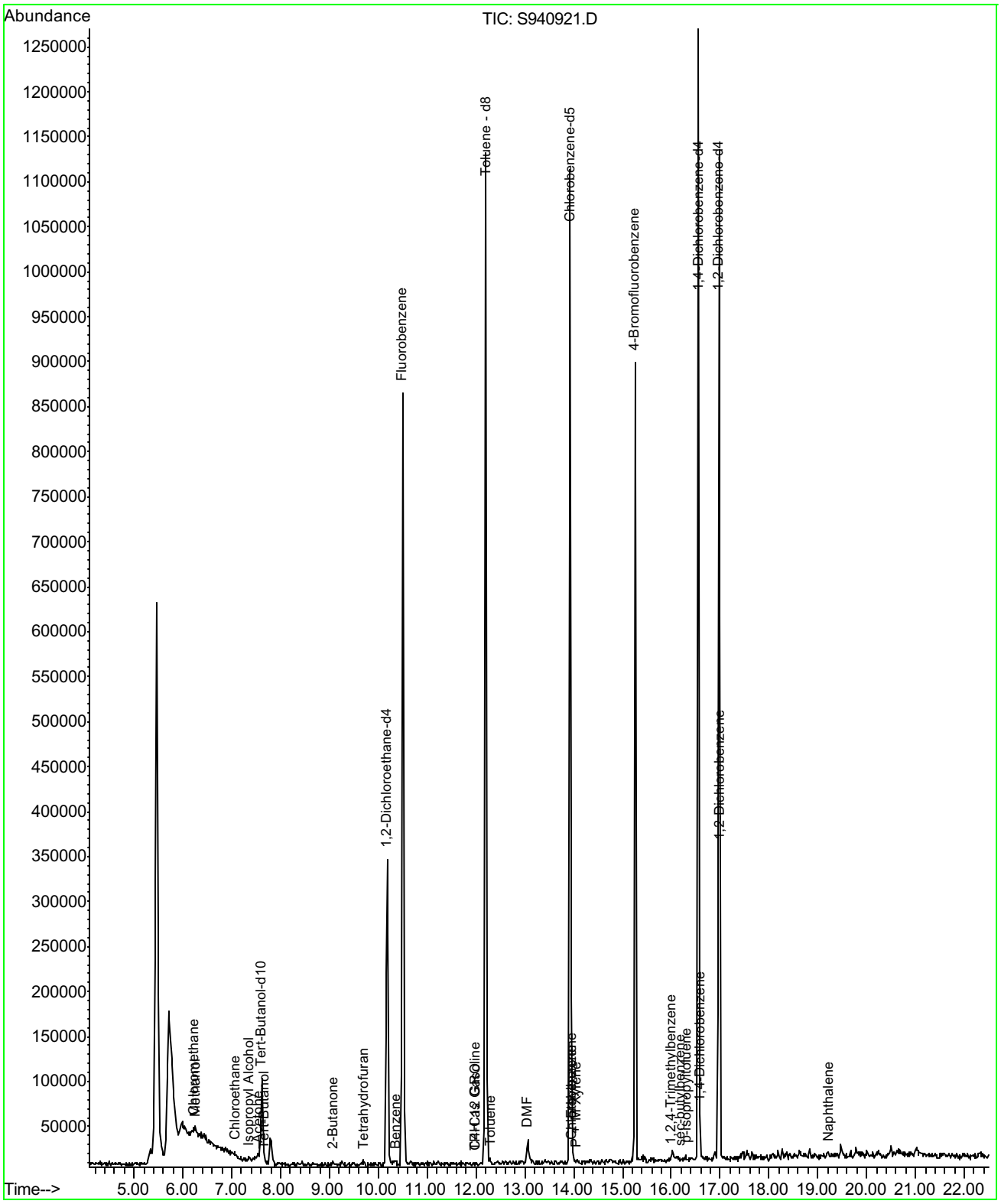
Sample ID : 58899-08 (MW-7)
Date Analyzed : 10/09/07
Data File : D450532
Analysis Method : M EPA 8015



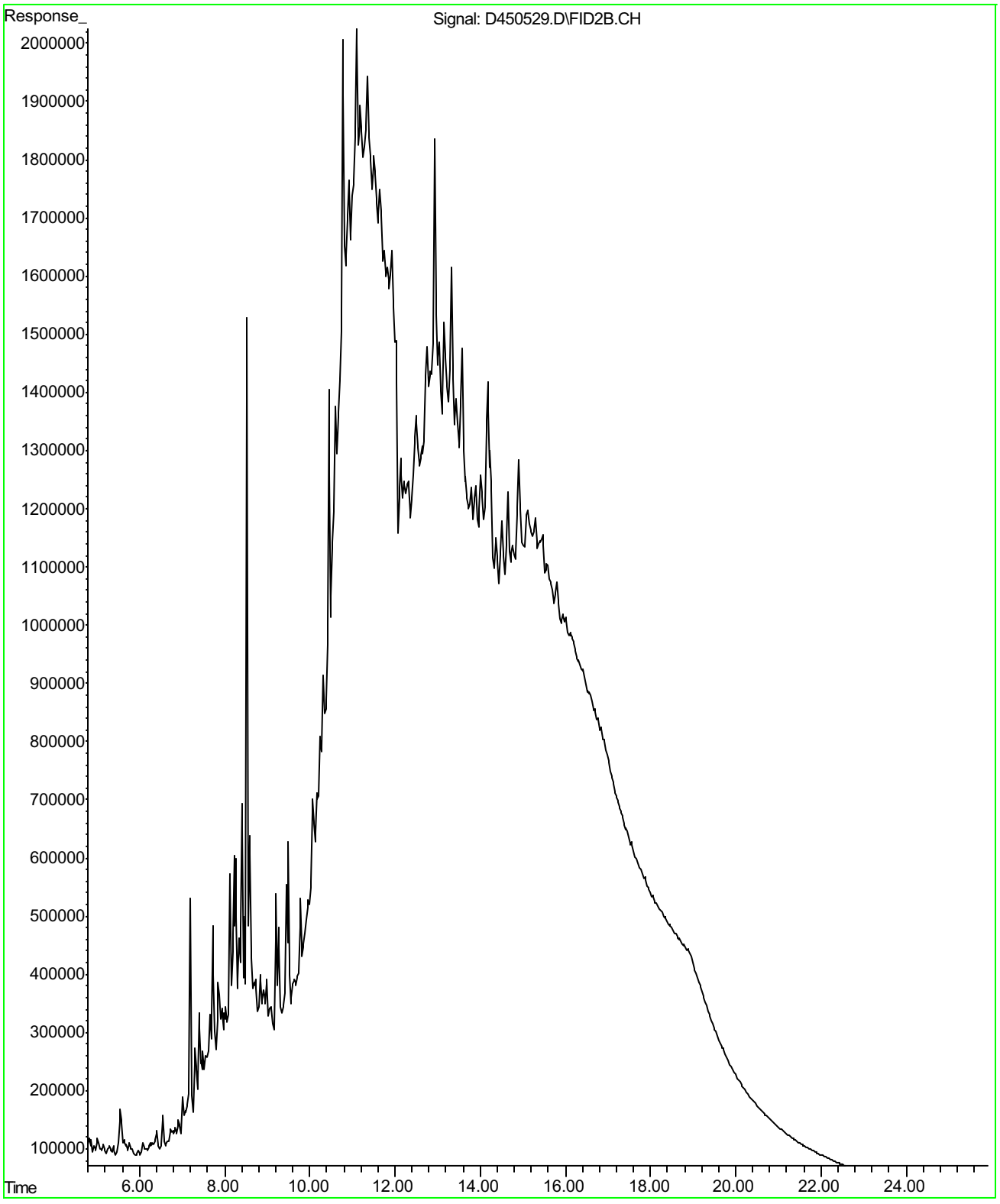
Sample ID : 58899-08 SI (MW-7)
Date Analyzed : 10/06/07
Data File : D450437
Analysis Method : M EPA 8015



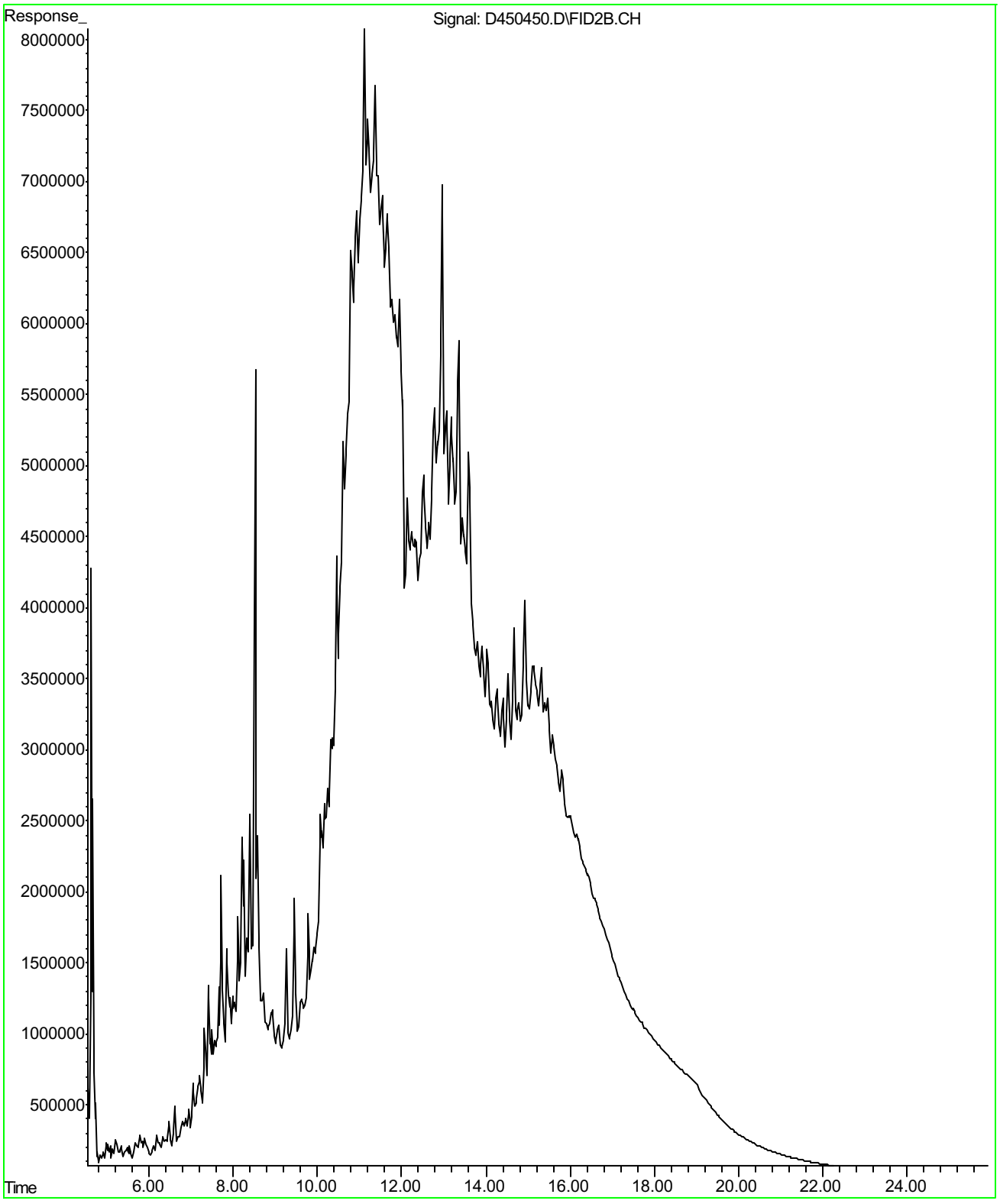
Sample ID : 58899-09 (MW-9)
Date Analyzed : 10/05/07
Data File : S940921
Analysis Method : EPA 8260B



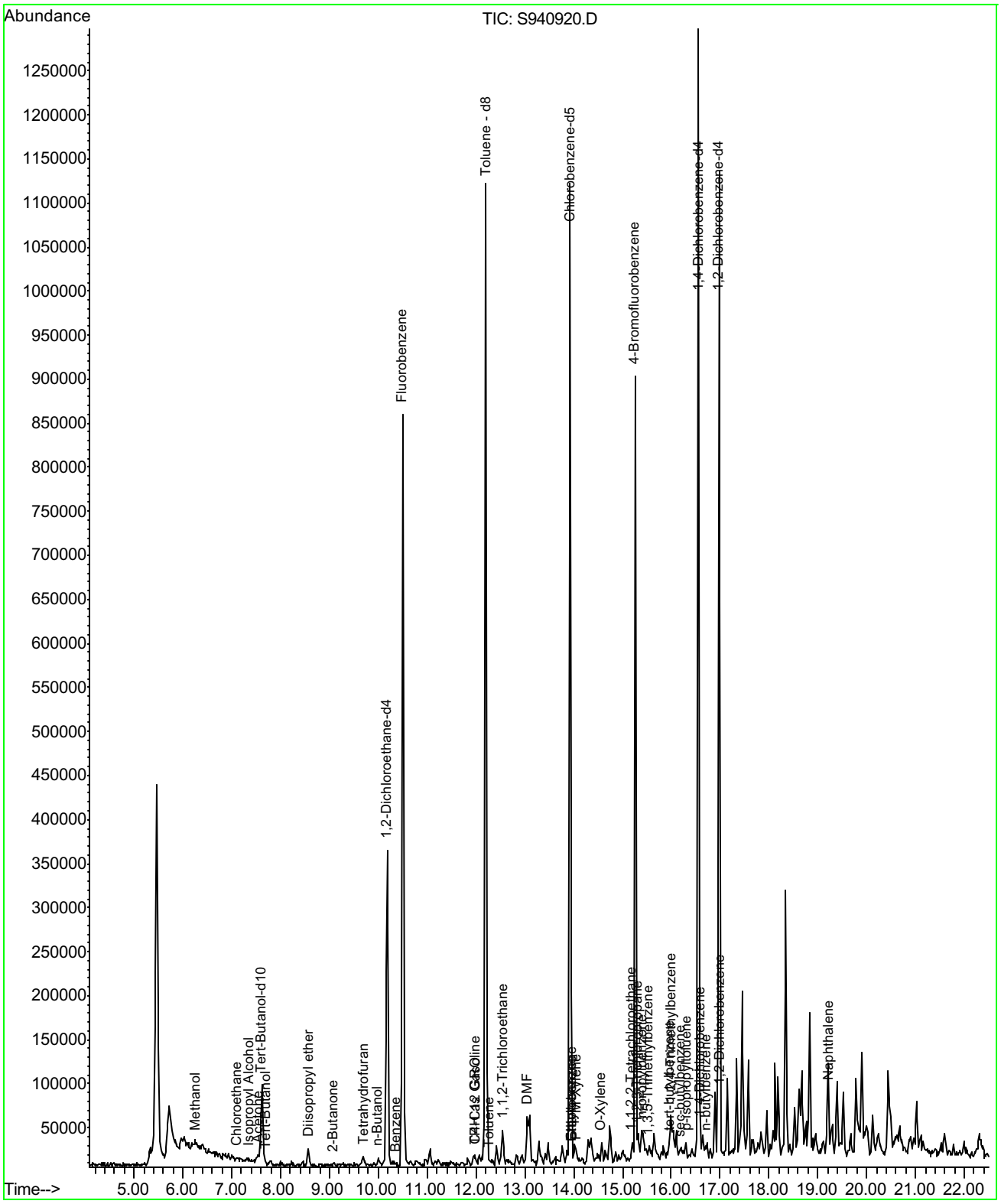
Sample ID : 58899-09 (MW-9)
Date Analyzed : 10/09/07
Data File : D450529
Analysis Method : M EPA 8015



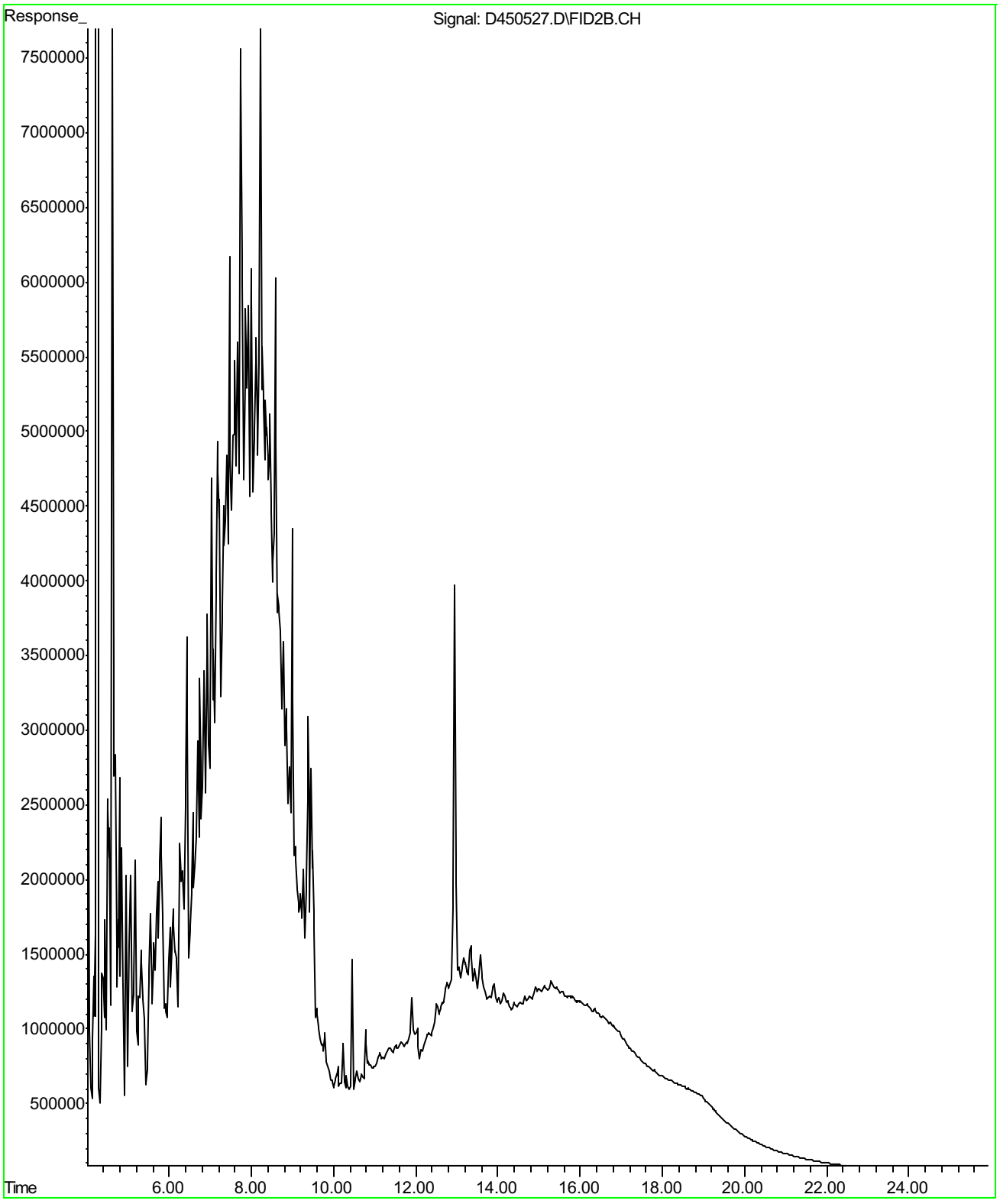
Sample ID : 58899-09 SI (MW-9)
Date Analyzed : 10/06/07
Data File : D450450
Analysis Method : M EPA 8015



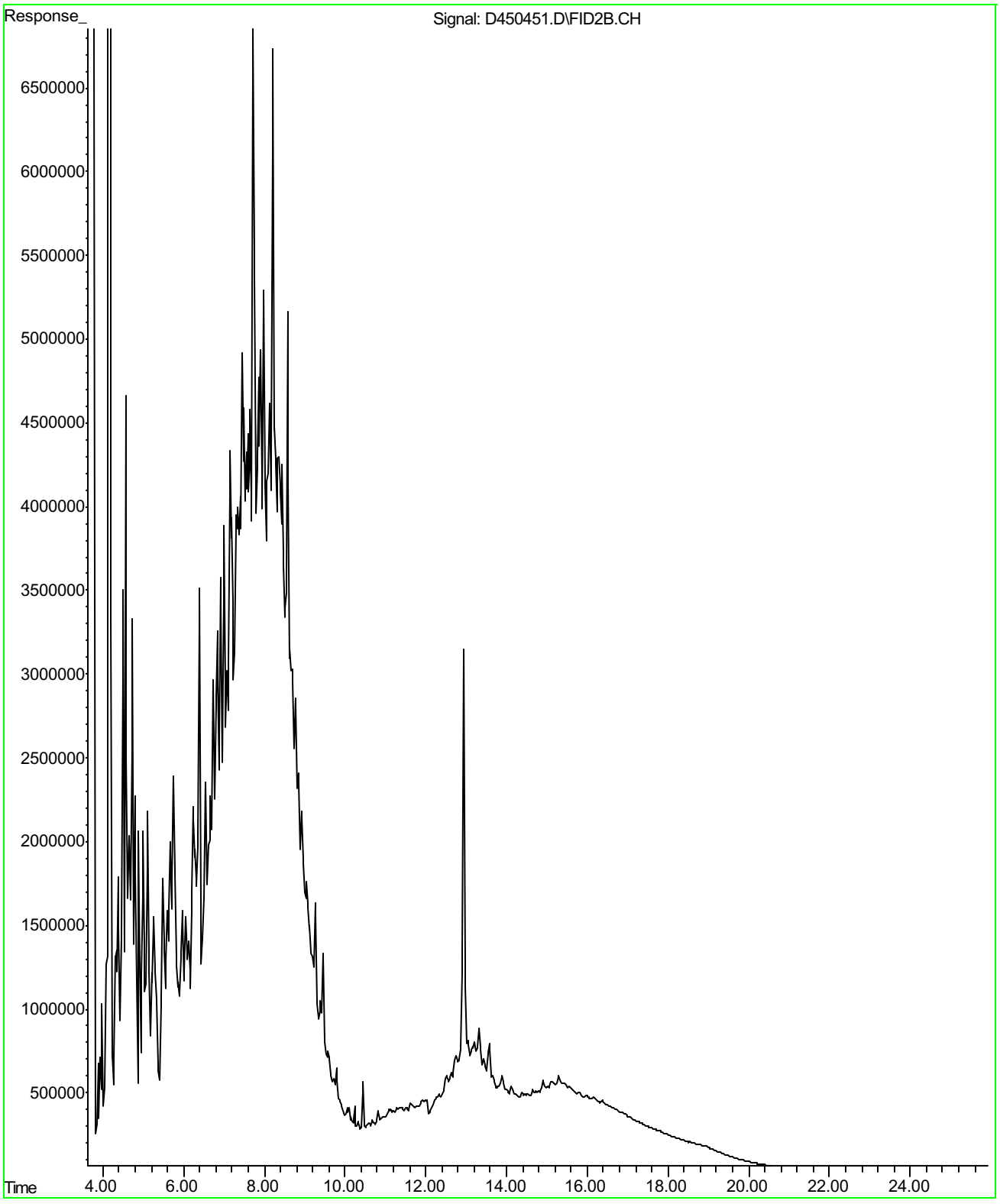
Sample ID : 58899-10 (MW-10)
Date Analyzed : 10/05/07
Data File : S940920
Analysis Method : EPA 8260B



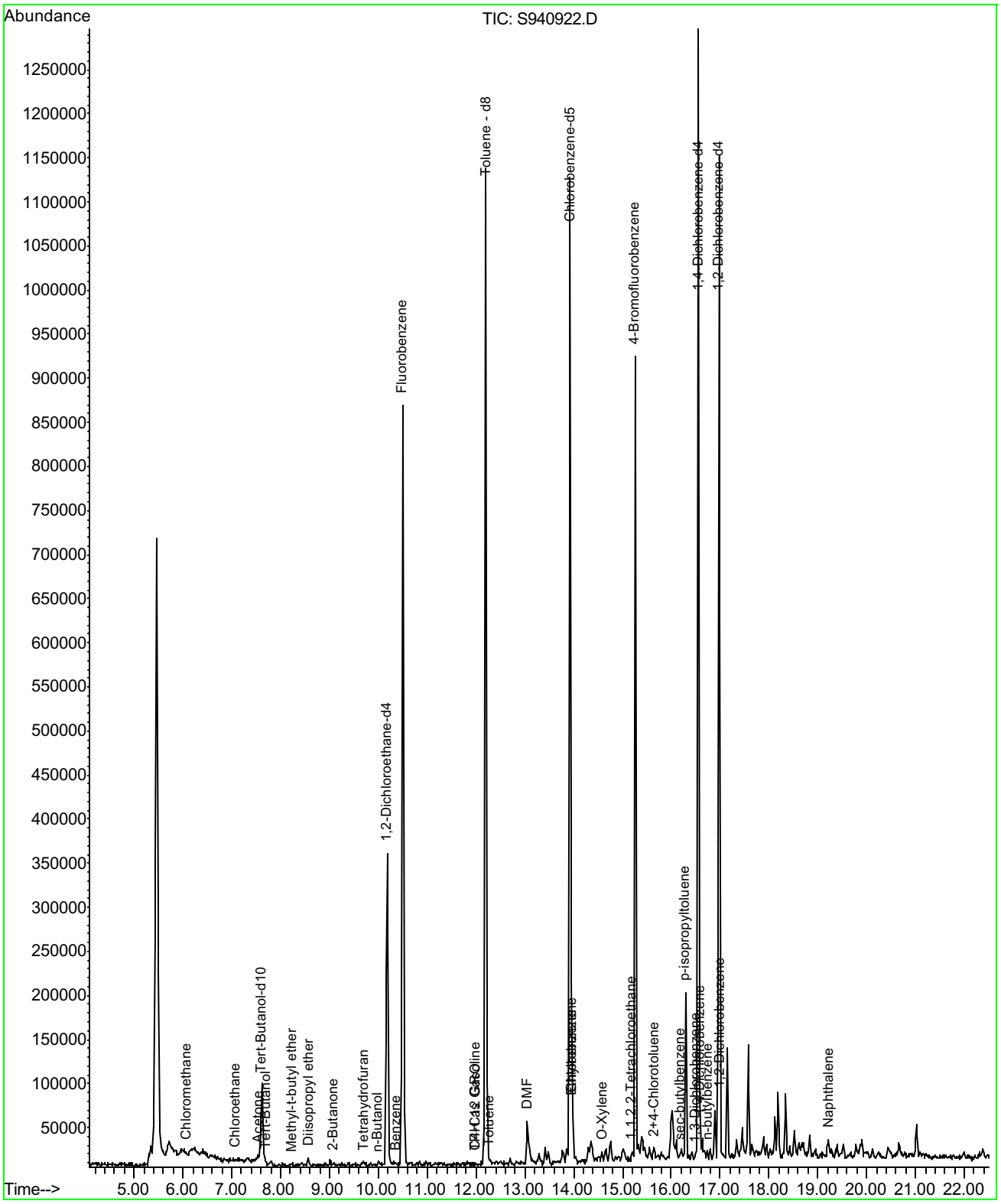
Sample ID : 58899-10 (MW-10)
Date Analyzed : 10/09/07
Data File : D450527
Analysis Method : M EPA 8015



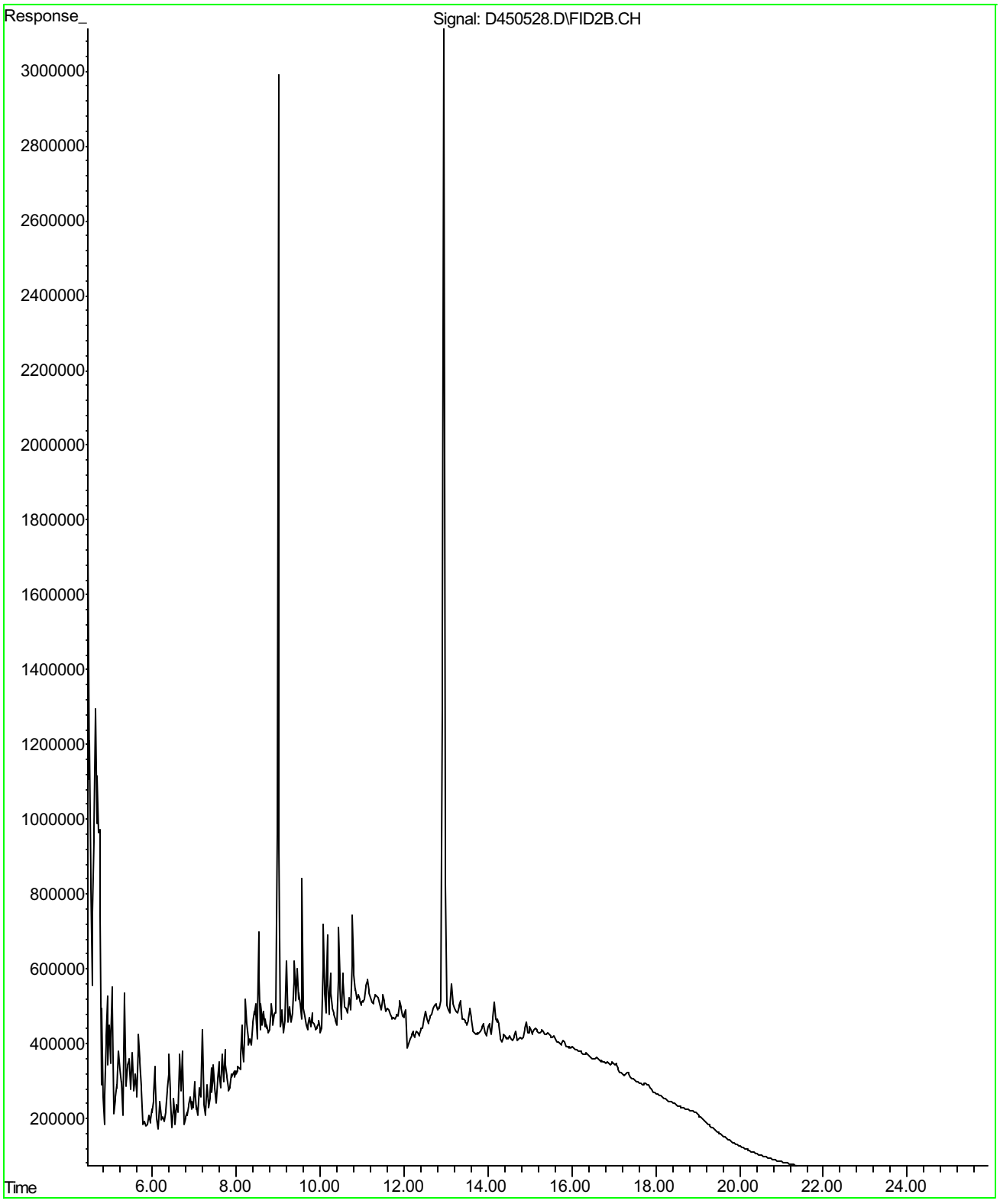
Sample ID : 58899-10 SI (MW-10)
Date Analyzed : 10/06/07
Data File : D450451
Analysis Method : M EPA 8015



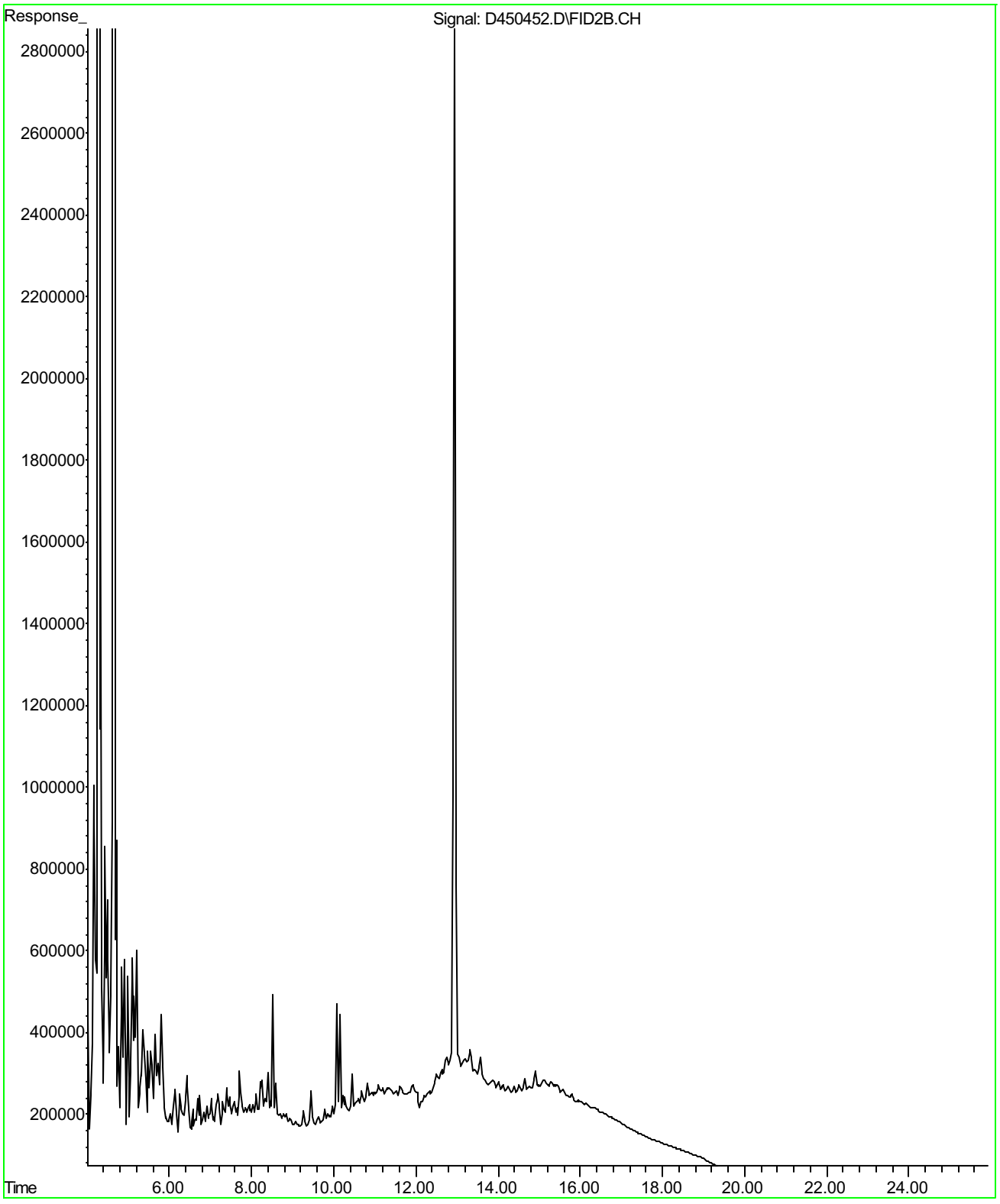
Sample ID : 58899-11 (MW-11)
Date Analyzed : 10/05/07
Data File : S940922
Analysis Method : EPA 8260B



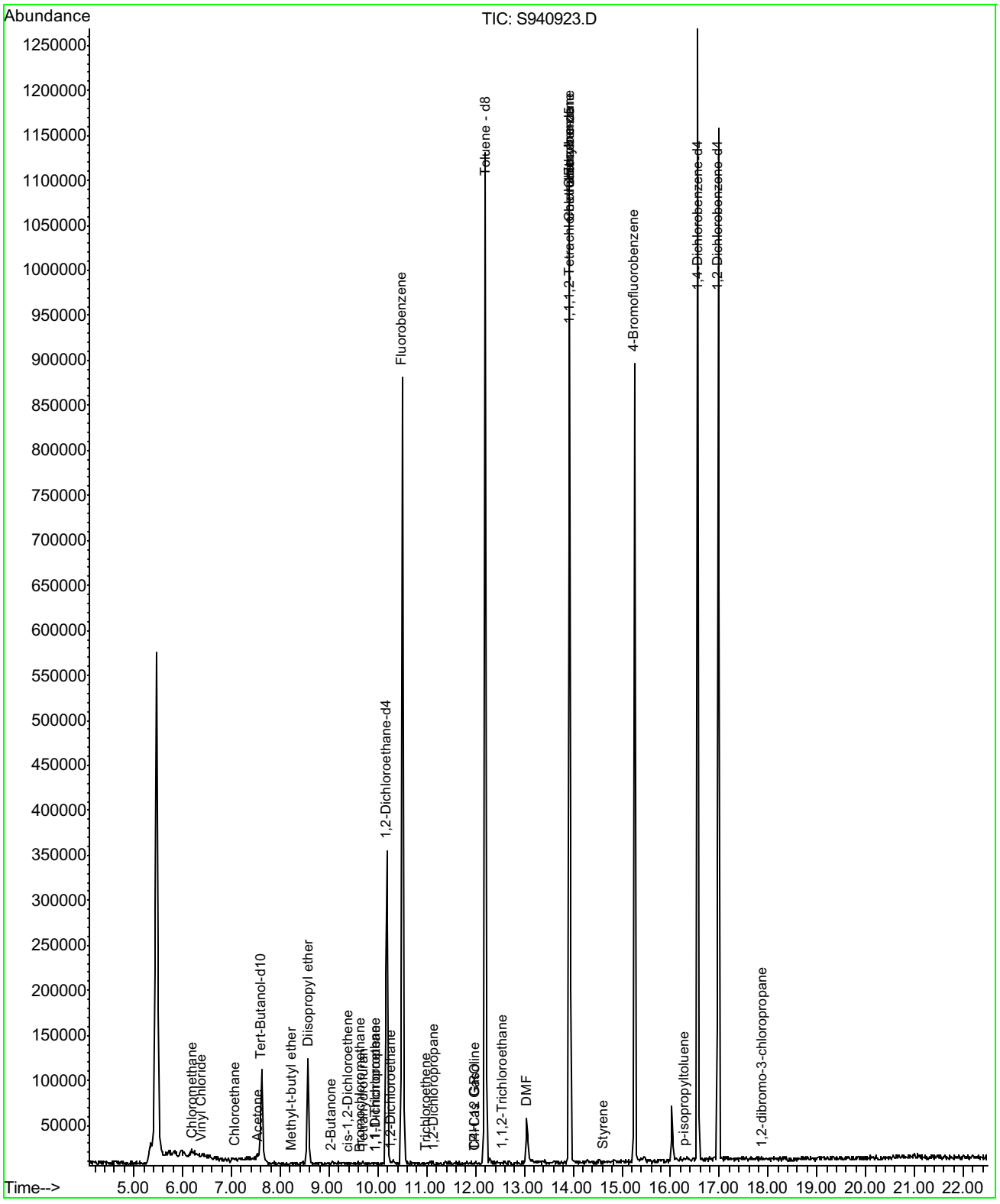
Sample ID : 58899-11 (MW-11)
Date Analyzed : 10/09/07
Data File : D450528
Analysis Method : M EPA 8015



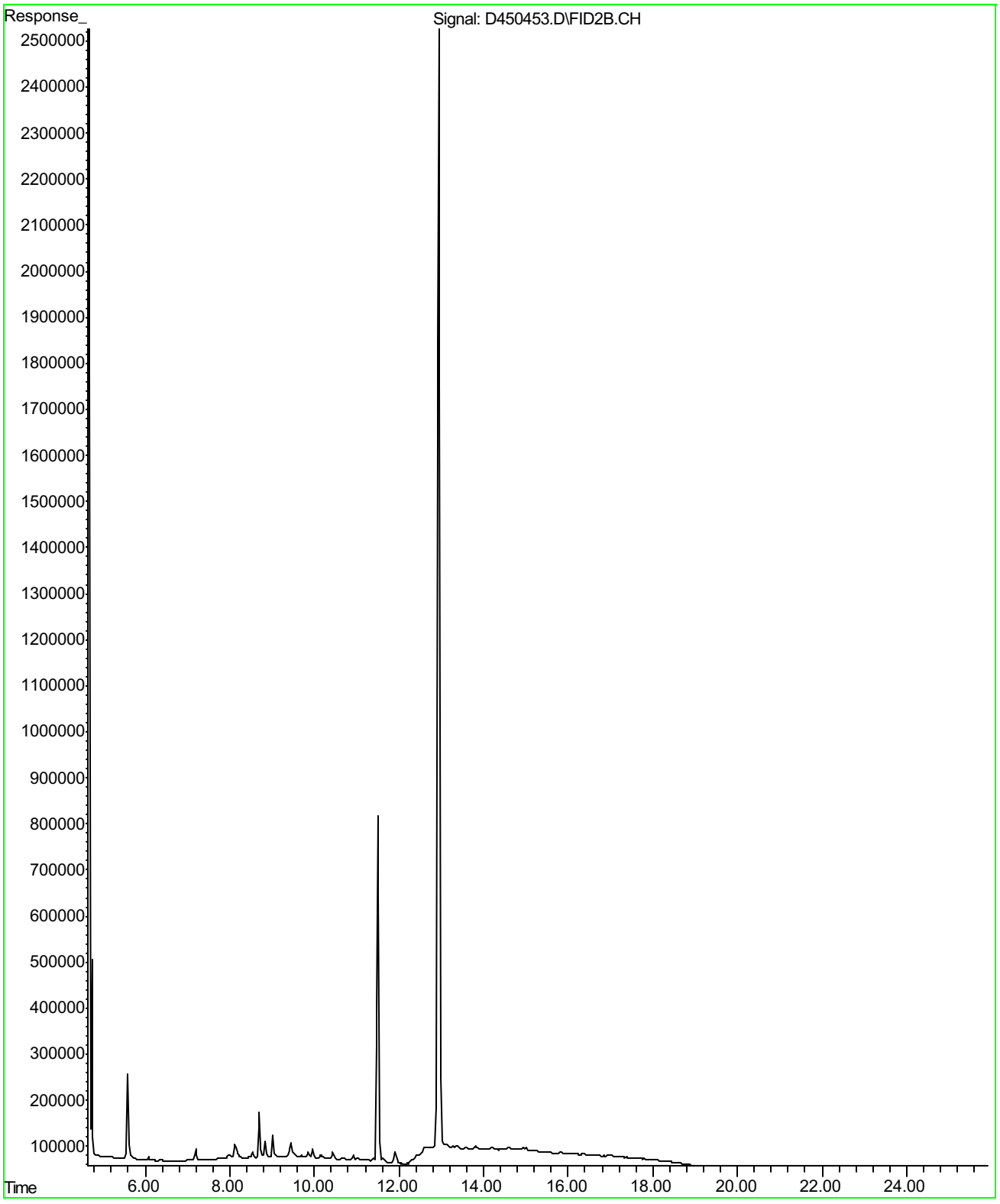
Sample ID : 58899-11 SI (MW-11)
Date Analyzed : 10/06/07
Data File : D450452
Analysis Method : M EPA 8015



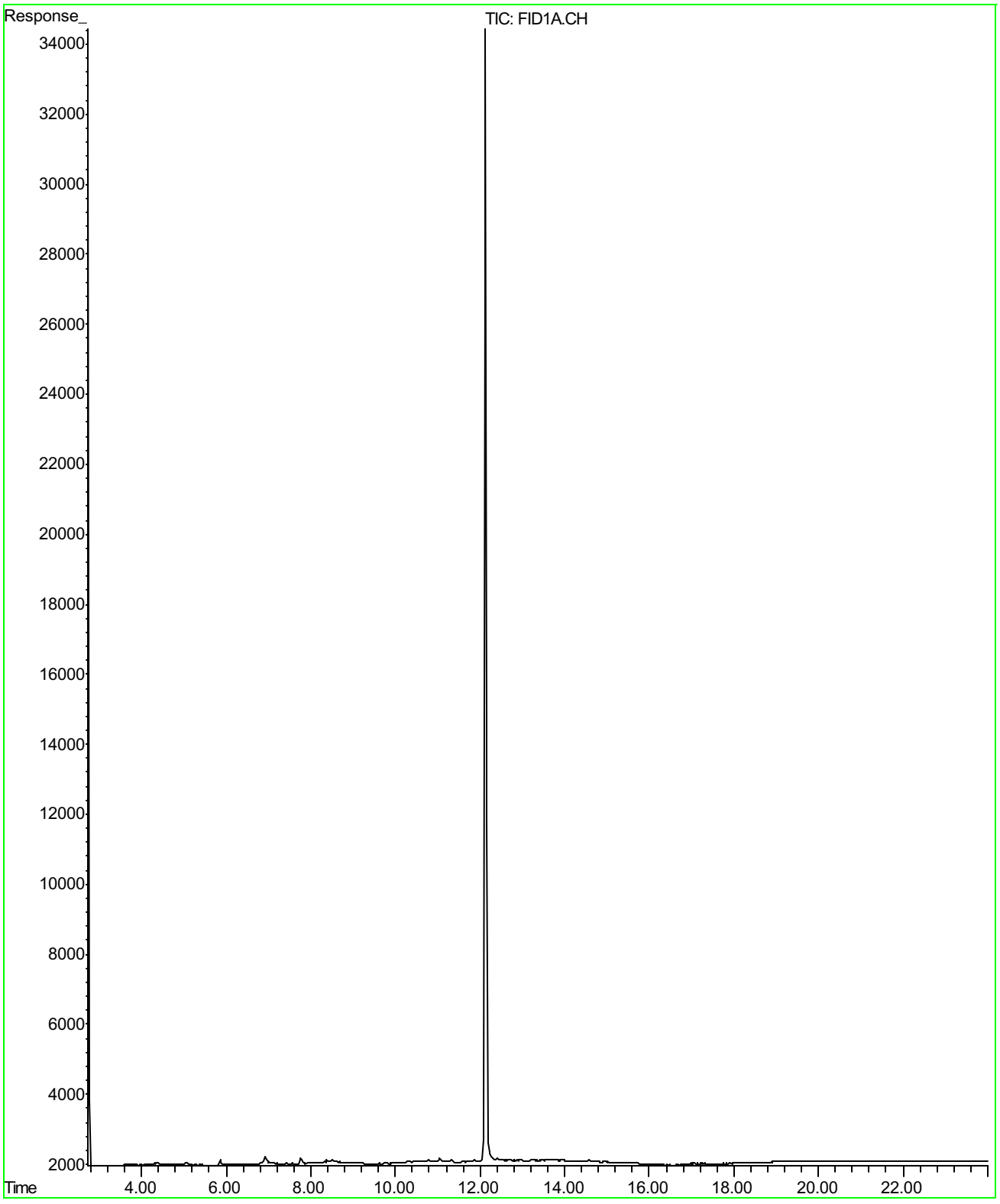
Sample ID : 58899-12 (MW-12)
Date Analyzed : 10/05/07
Data File : S940923
Analysis Method : EPA 8260B



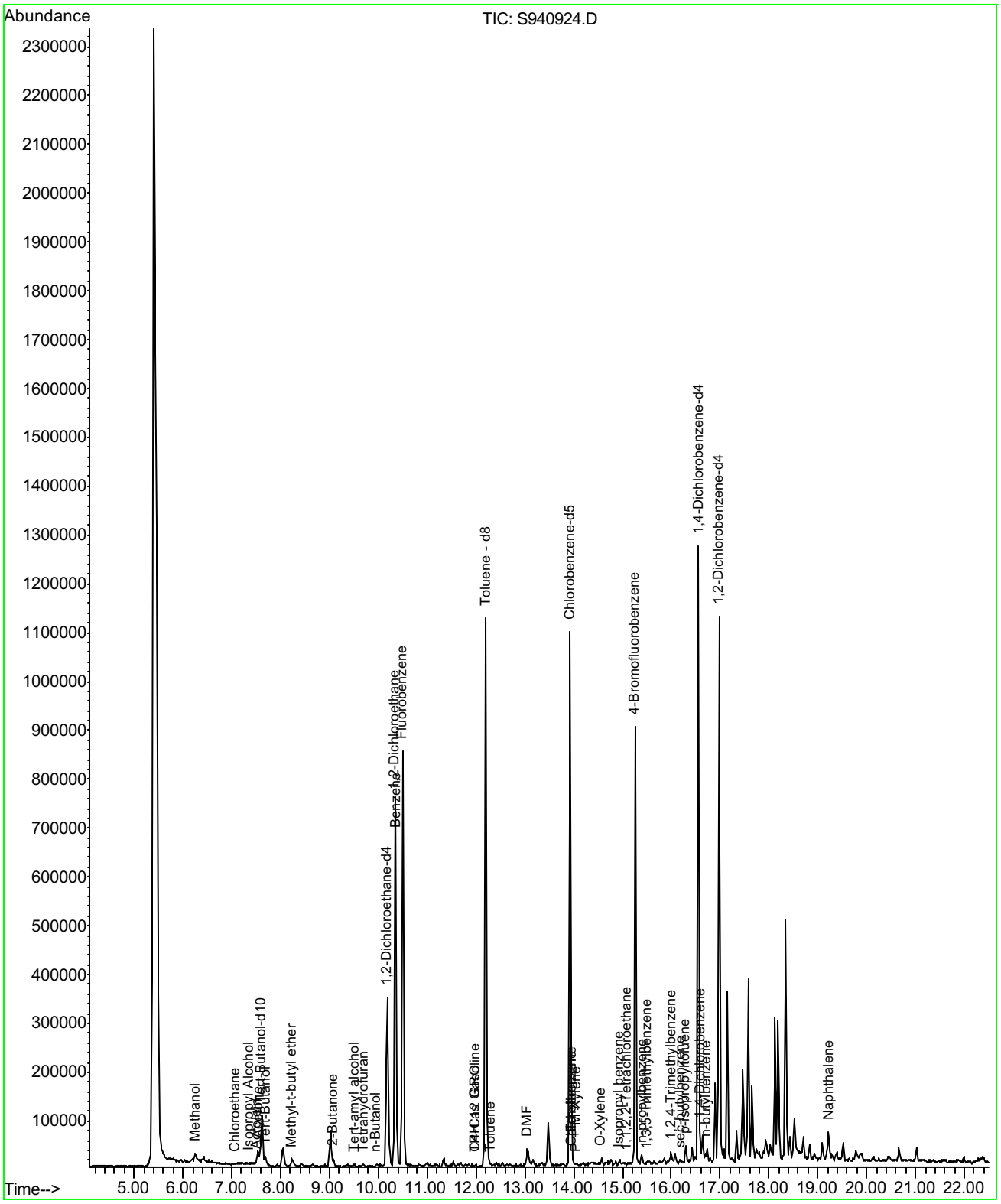
Sample ID : 58899-12 (MW-12)
Date Analyzed : 10/06/07
Data File : D450453
Analysis Method : M EPA 8015



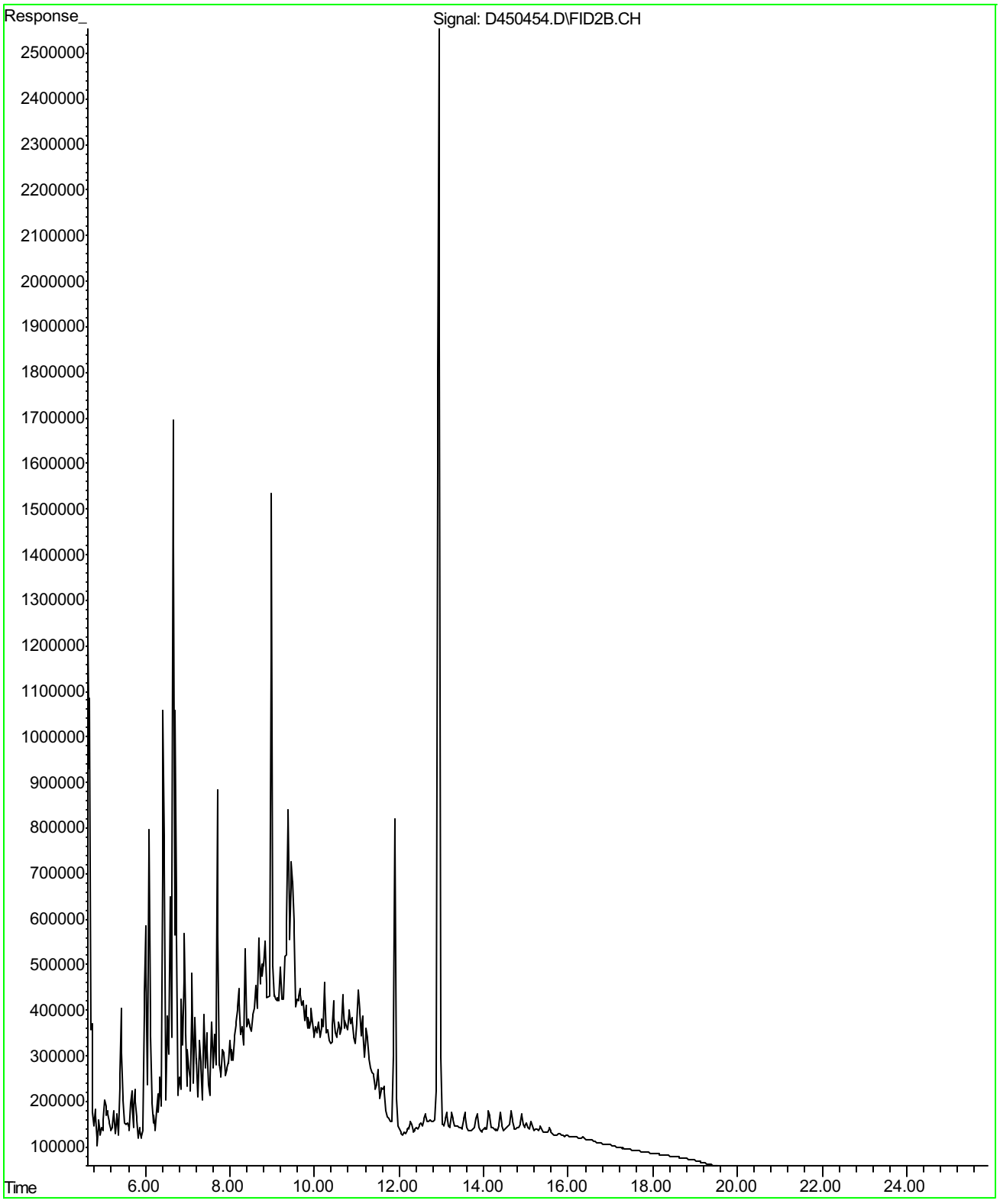
Sample ID : 58899-12 SI (MW-12)
Date Analyzed : 10/08/07
Data File : D274080
Analysis Method : M EPA 8015



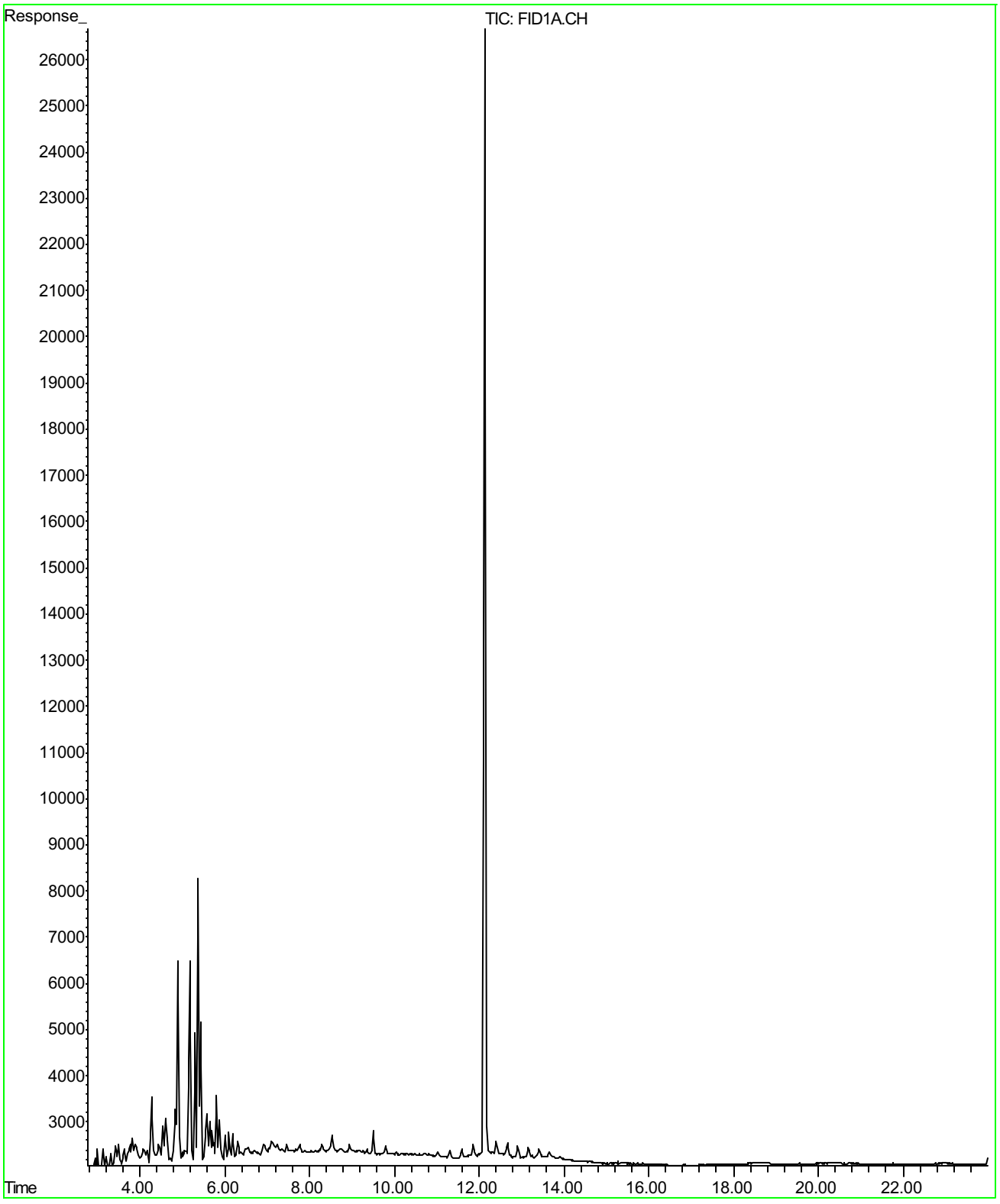
Sample ID : 58899-13 (MW-13)
Date Analyzed : 10/05/07
Data File : S940924
Analysis Method : EPA 8260B



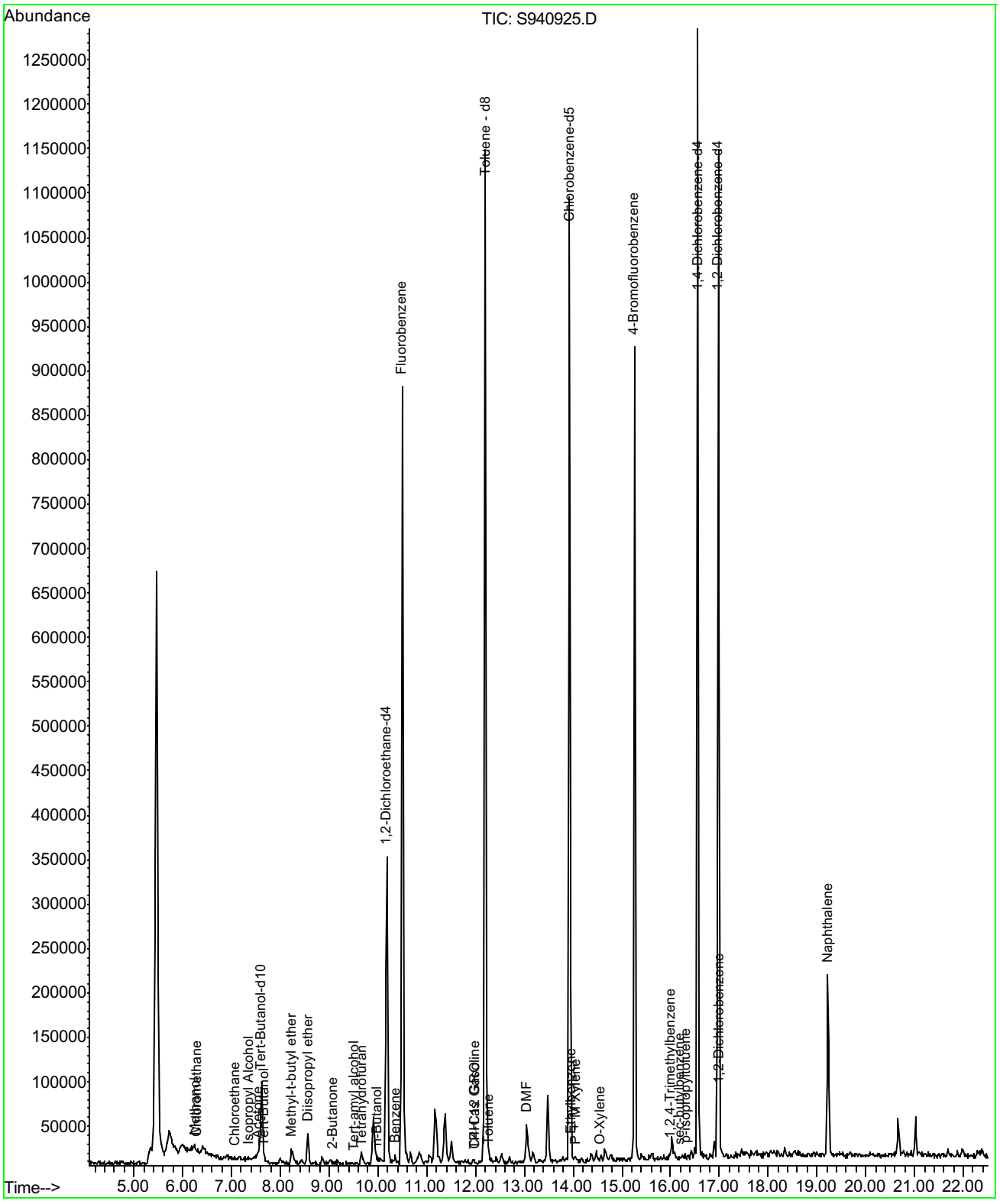
Sample ID : 58899-13 (MW-13)
Date Analyzed : 10/06/07
Data File : D450454
Analysis Method : M EPA 8015



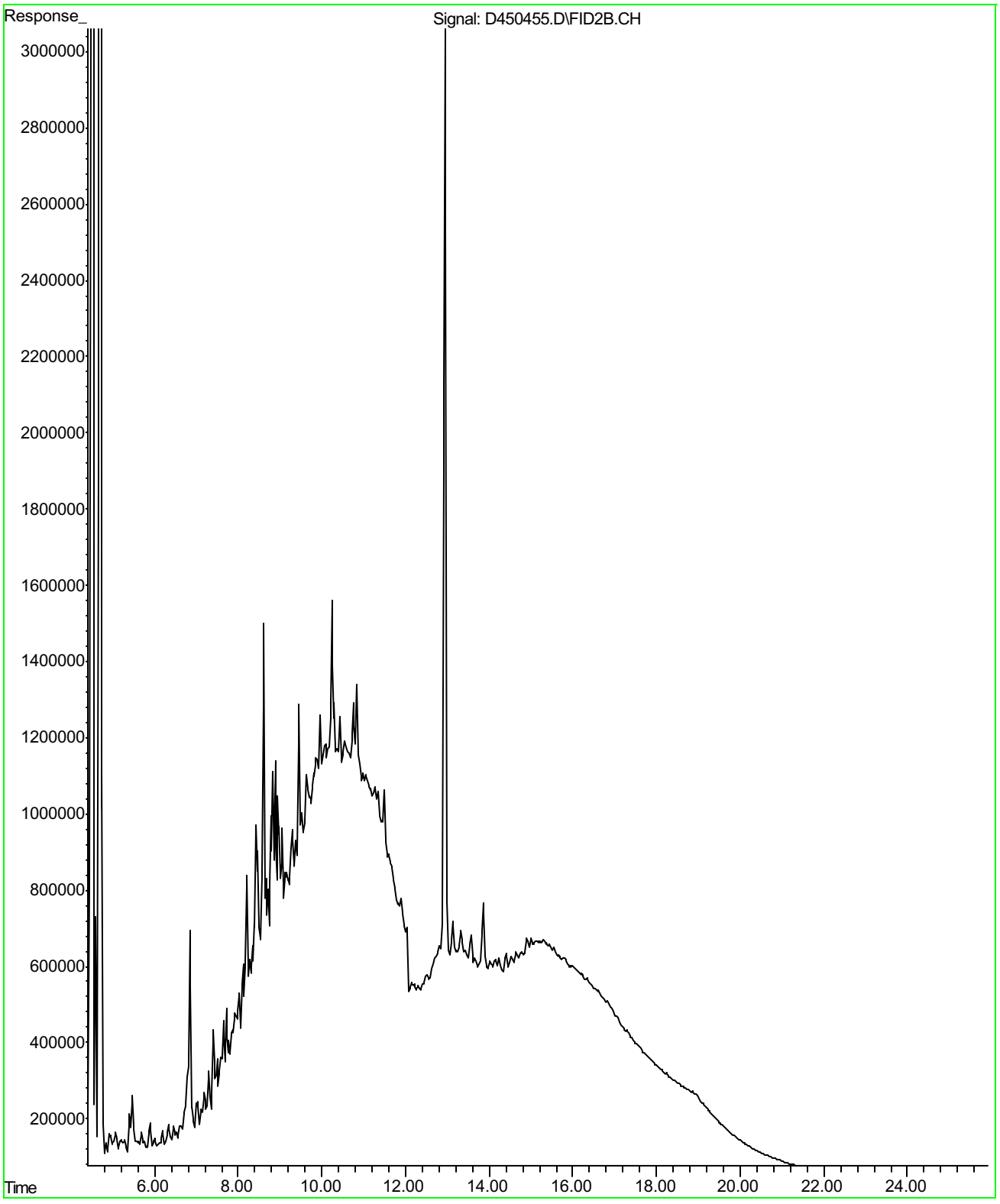
Sample ID : 58899-13 SI (MW-13)
Date Analyzed : 10/08/07
Data File : D274083
Analysis Method : M EPA 8015



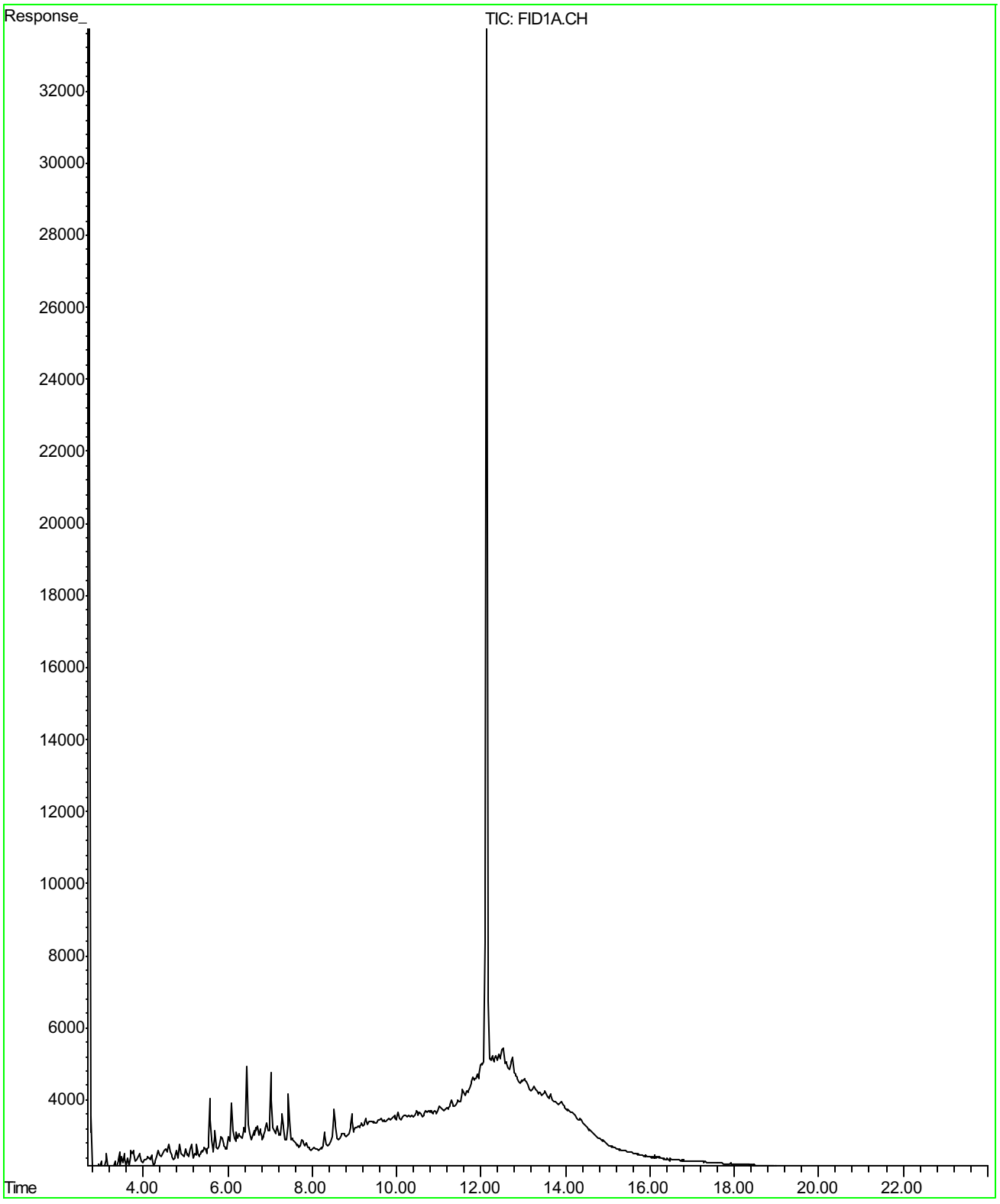
Sample ID : 58899-14 (MW-14)
Date Analyzed : 10/05/07
Data File : S940925
Analysis Method : EPA 8260B



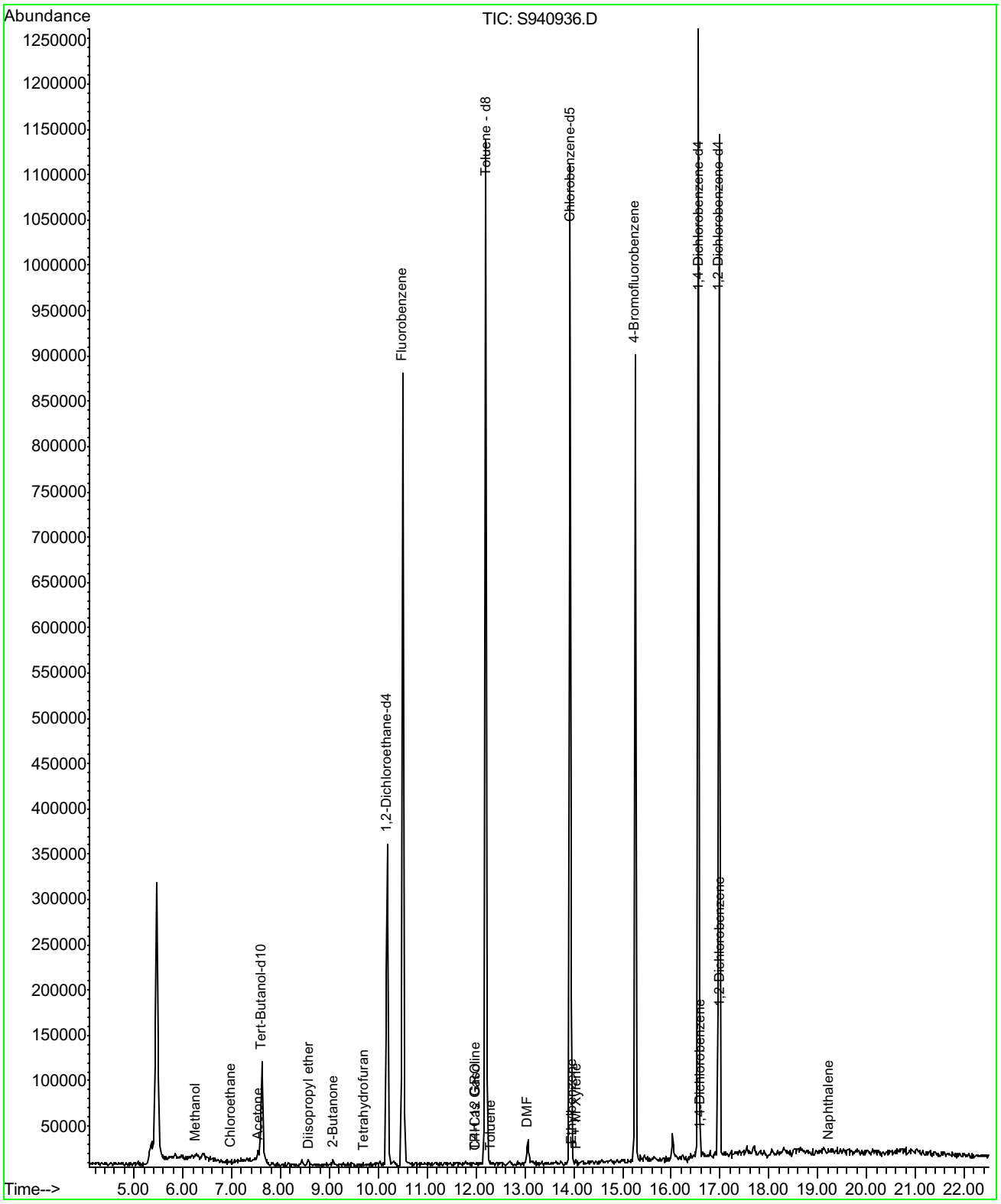
Sample ID : 58899-14 (MW-14)
Date Analyzed : 10/06/07
Data File : D450455
Analysis Method : M EPA 8015



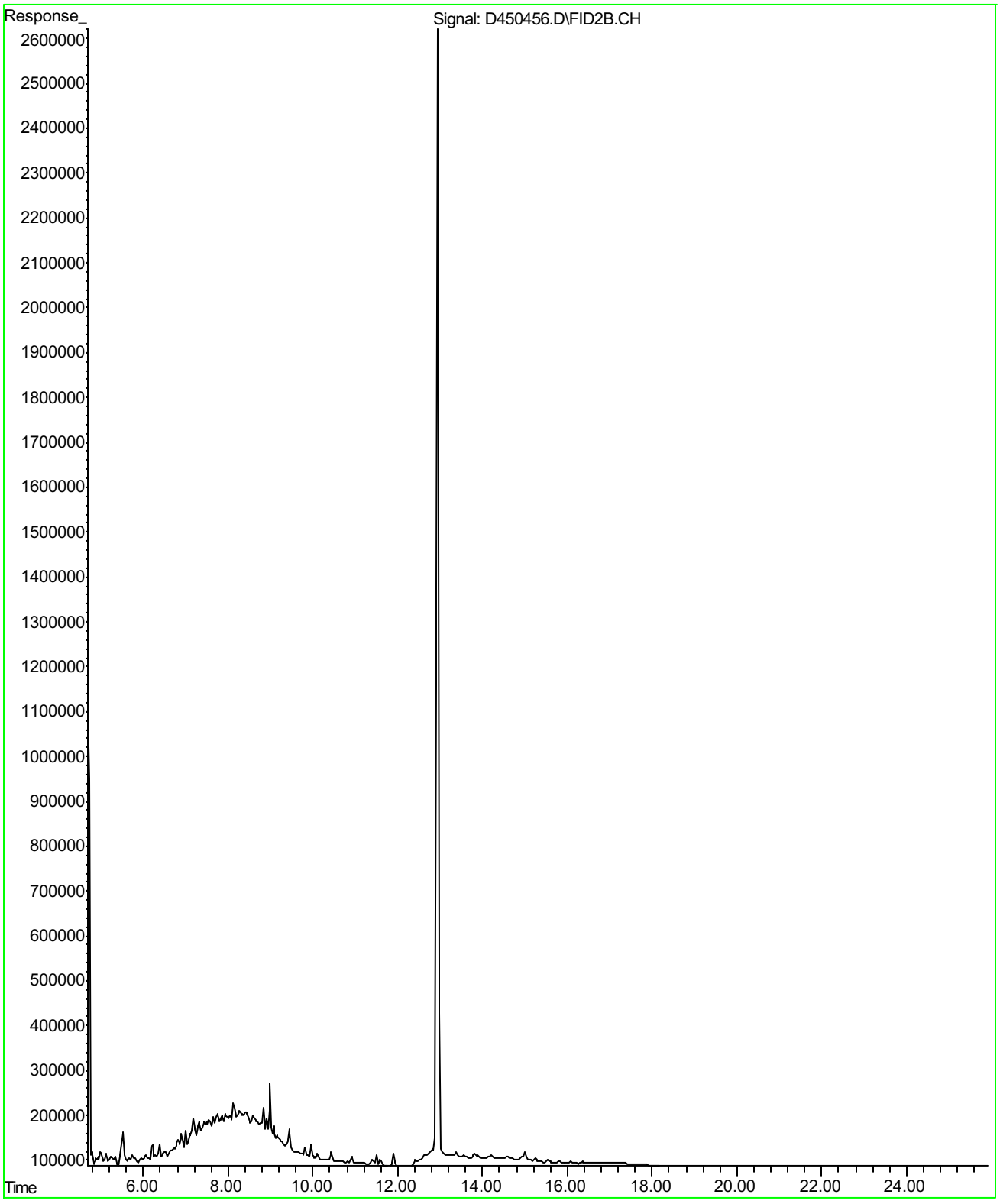
Sample ID : 58899-14 SI (MW-14)
Date Analyzed : 10/08/07
Data File : D274077
Analysis Method : M EPA 8015



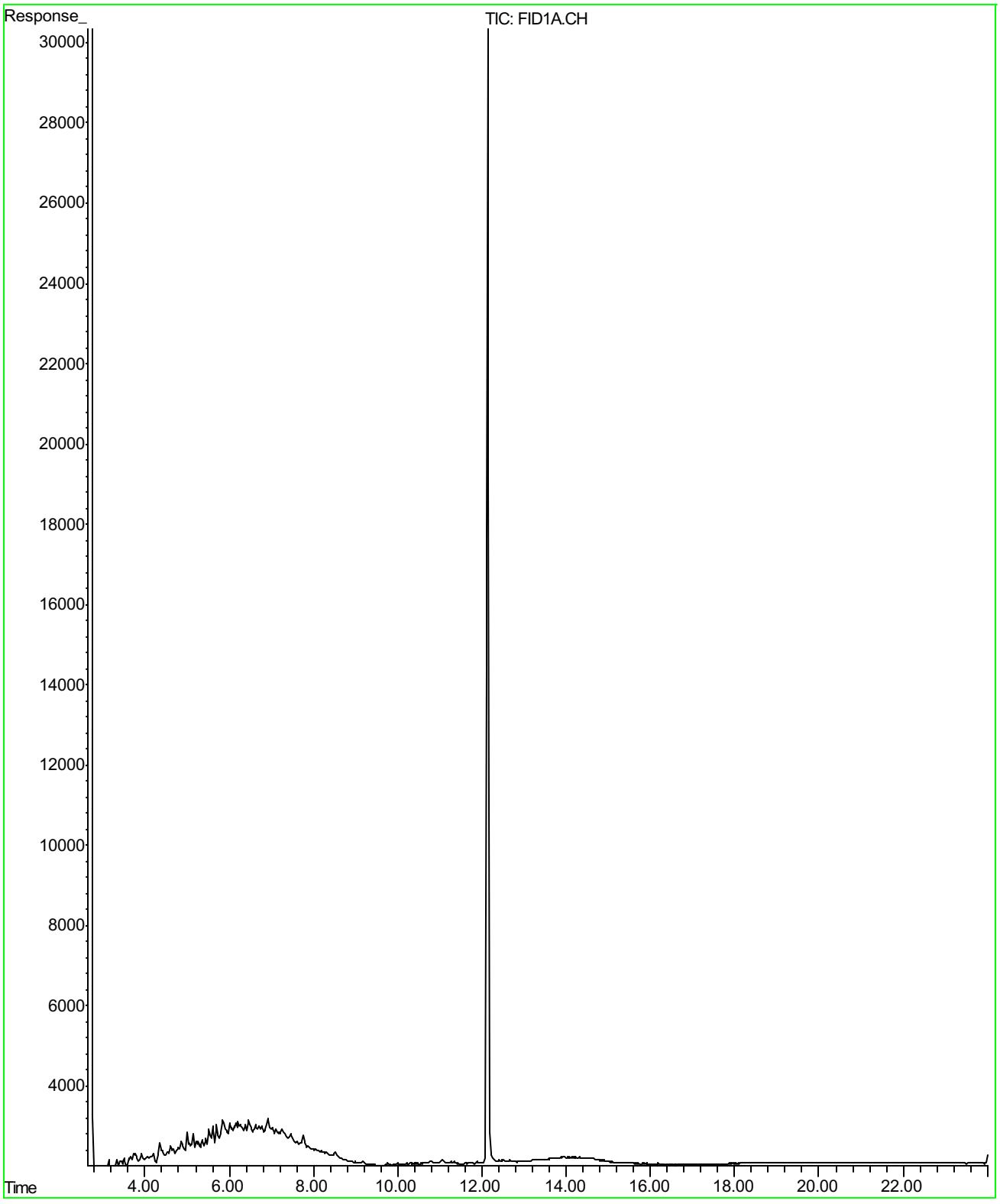
Sample ID : 58899-15 (MW-15)
Date Analyzed : 10/05/07
Data File : S940936
Analysis Method : EPA 8260B



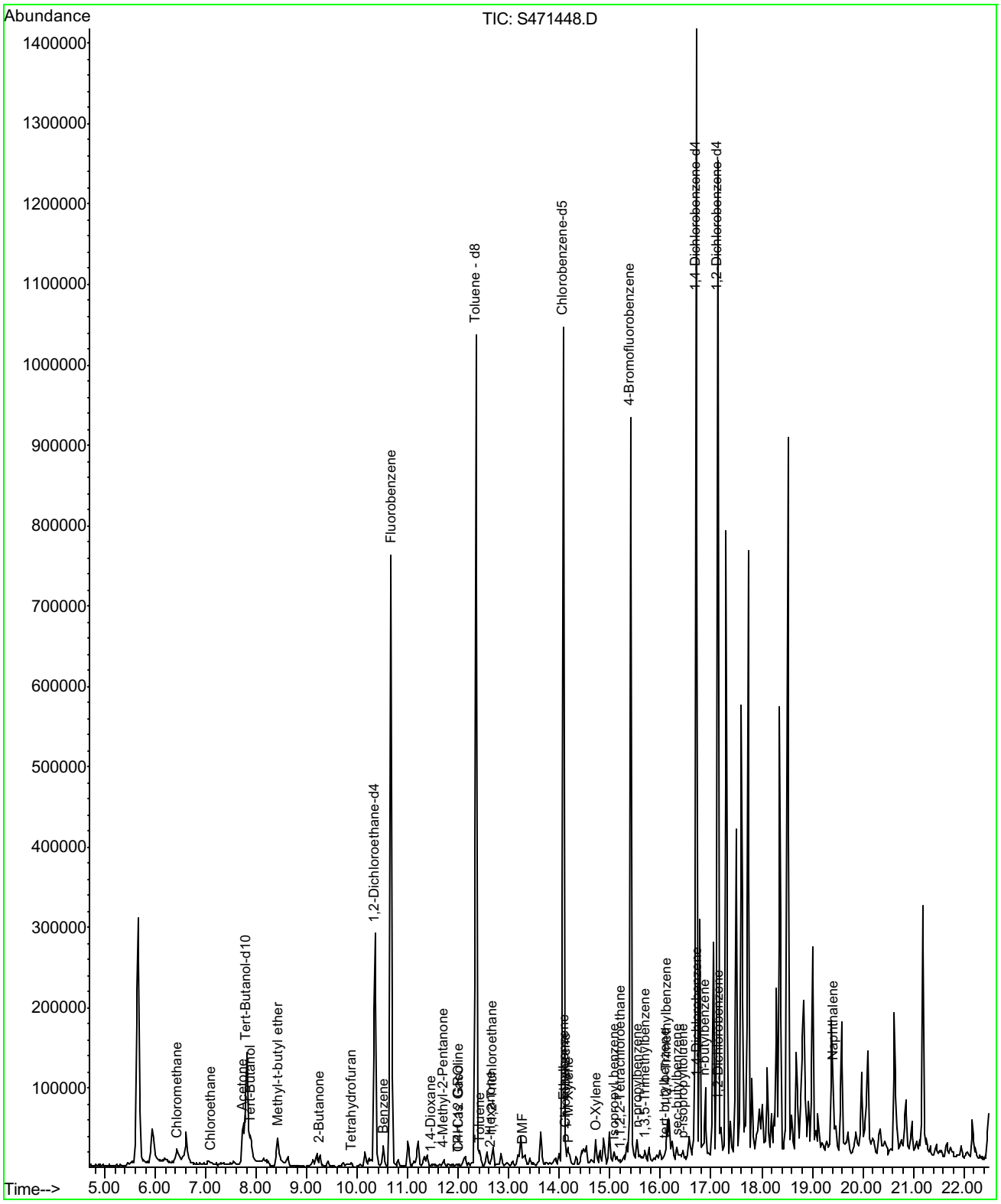
Sample ID : 58899-15 (MW-15)
Date Analyzed : 10/06/07
Data File : D450456
Analysis Method : M EPA 8015



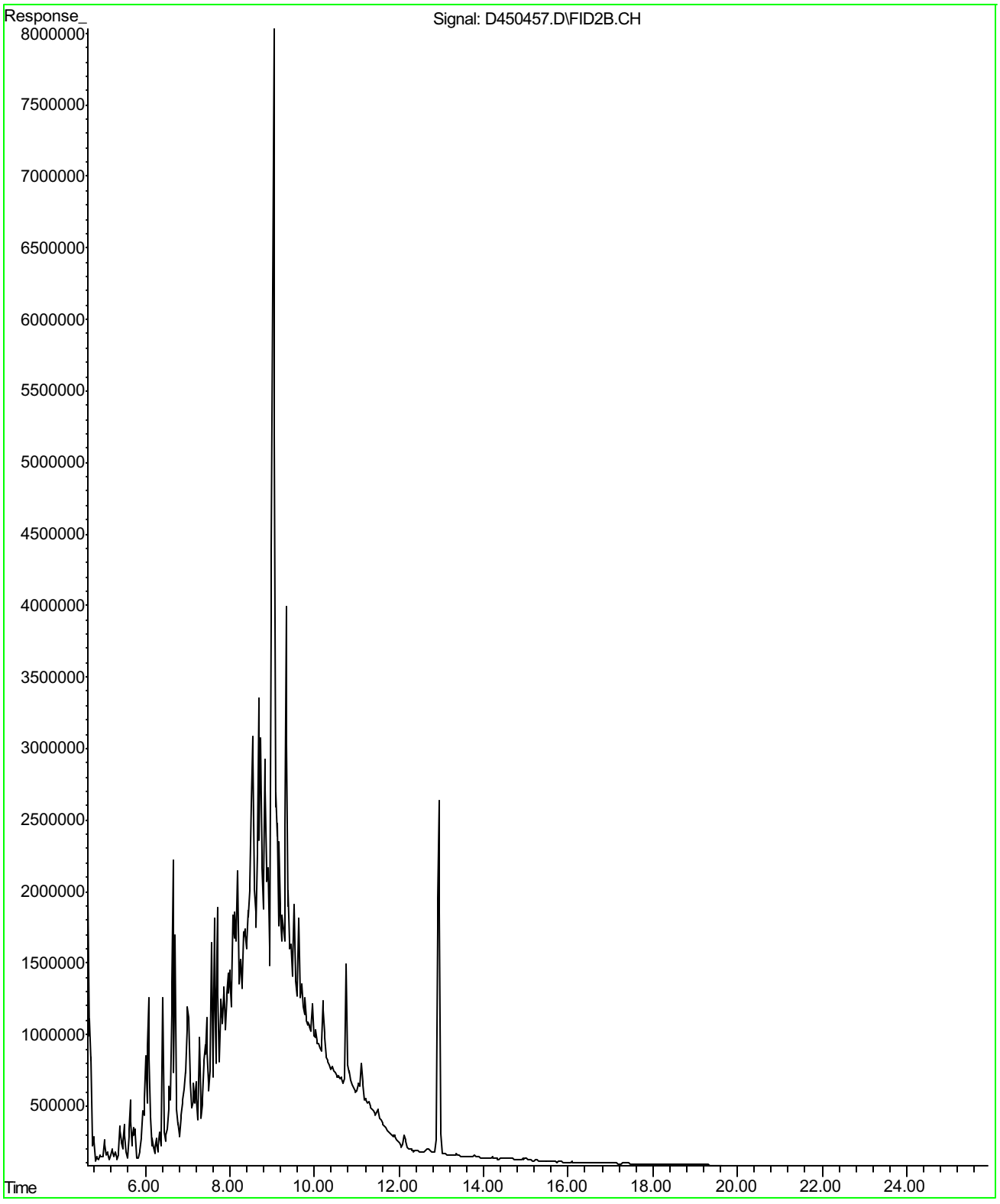
Sample ID : 58899-15 SI (MW-15)
Date Analyzed : 10/08/07
Data File : D274078
Analysis Method : M EPA 8015



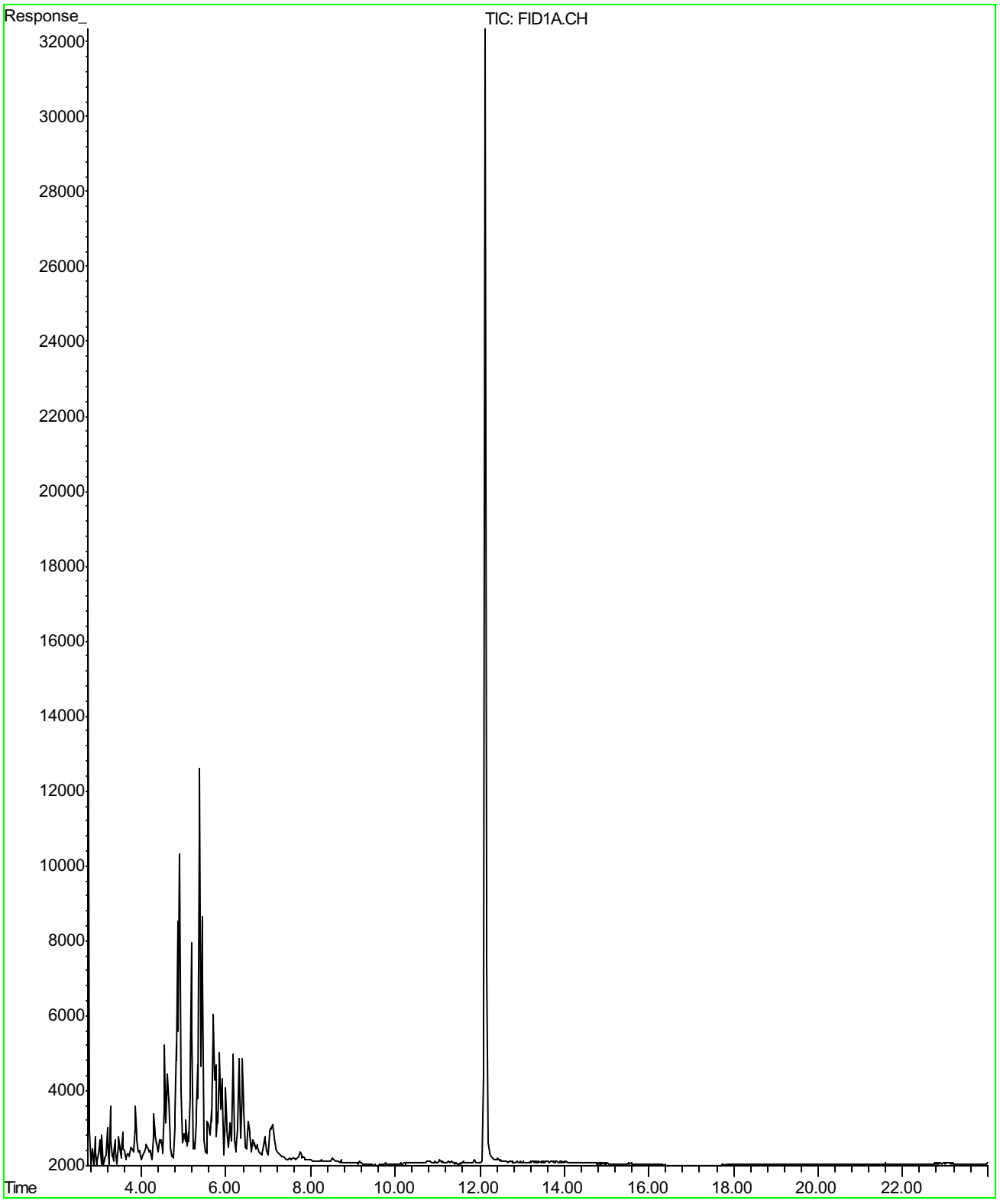
Sample ID : 58899-16 (BK-1)
Date Analyzed : 10/05/07
Data File : S471448
Analysis Method : EPA 8260B



Sample ID : 58899-16 (BK-1)
Date Analyzed : 10/06/07
Data File : D450457
Analysis Method : M EPA 8015



Sample ID : 58899-16 SI (BK-1)
Date Analyzed : 10/10/07
Data File : D274135
Analysis Method : M EPA 8015



58899

☐ Yes
☐ No

Chain-of-Custody-Record

Direct Bill To:
Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr.
Rancho Cordova, CA
95670

Facility: Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670
Project Contact: (Name) Geoffrey Risse e-mail grisse@grinc.com
(Phone) 916-631-1300x12 (Fax) 916-631-1317

(Name) Geoffrey Risse
(Phone) 916-631-1300x12
Laboratory Name: Kiff Analytical
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by: (Name) Jim Herren
Signature:

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT ☐ ID

Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-D with Silica Gel Cleanup (8015) (HCL)	TPH-G/BTEX/MTBE/ Naphthalene (8260) (HCL)	Remarks / Lab Sample No.
GA	2	W	10/2/07				X	01
MW-1	7	W	10/3/07 1015	X	X	X	X	02
MW-2			10/3/07 0950	X	X	X	X	03
MW-3			10/2/07 1440	X	X	X	X	04
MW-4			10/2/07 1285	X	X	X	X	05
MW-5			10/2/07 1550	X	X	X	X	06
MW-6			10/3/07 1320	X	X	X	X	07
MW-7			10/2/07 1430	X	X	X	X	08
MW-8			10/3/07 1125	X	X	X	X	09
MW-10			10/3/07 1300	X	X	X	X	10
MW-11			10/3/07 1130	X	X	X	X	11
MW-12			10/3/07 1117	X	X	X	X	12
MW-13			10/3/07 1200	X	X	X	X	13
MW-14	↓	↓	10/2/07 1150	X	X	X	X	14

1 of 2

SAMPLE RECEIPT
Temp °C 4.6 Therm. ID# IR5
Initial JRP Date 10/4/07
Time 1615 Coolant present: (Yes) / No

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
	GR Inc	10/3/07 1430		GR Inc	10.3.07 1430	Yes
	GR INC	10/04/07 11:50				~~Iced (Y/N)~~
			Received For Laboratory By (Signature) Kiff Analytical		10/4/07 1150	

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
(As Contracted)

58899

Chain-of-Custody-Record

☐ Yes
☐ No

Direct Bill To:
Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr.
Rancho Cordova, CA
95670

Facility: Rolls-Royce Engine Test Facility
Facility Address: 6701 Old Earhart Road, Oakland, CA
Consultant Project #: 25-948218.1
Consultant Name: GETTLER-RYAN INC.
Address: 3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670
Project Contact: (Name) Geoffrey Risse e-mail grisse@grinc.com
(Phone) 916-631-1300x12 (Fax) 916-631-1317

(Name) Geoffrey Risse
(Phone) 916-631-1300x12
Laboratory Name: Kiff Analytical
Laboratory Service Order:
Laboratory Service Code:
Samples Collected by: (Name) Jim Herrera
Signature:

State Method: ☑ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT ☐ ID

Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-D with Silica Gel Cleanup (8015) (HCL)	TPH-G/BTEX/MTBE/ Naphthalene (8260) (HCL)	Remarks / Lab Sample No.
MW-15	7	W	10/2/07 1350	X	X	X	X	2 of 2 / 15
BK-1	7	W	10/2/07 1330	X	X	X	X	16

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)
	CRINC	10/3/07 1936		GR INC	10-3-07 1430	YES
	GR INC	10-04-07 11:50				
			Received For Laboratory By (Signature) Kiff Analytical		10/04/07 1150	

Turn Around Time (Circle Choice)

24 Hrs.
48 Hrs.
5 Days
10 Days
(As Contracted)

APPENDIX C

18399

KELLER CANYON LANDFILL
901 BAILEY ROAD
PITTSBURG, CA

674624
Bettler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 95670
Contract: #212Y712895

SITE	TICKET	GRID
01	426875	

WEIGHTMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	10:02 am

DATE OUT	TIME OUT
28 November 2007	10:02 am

VEHICLE	ROLL OFF
MT23	

REFERENCE	ORIGIN
363060	OAKLAND

Gross Weight 78,440.00 lb
Stored Tare Weight 30,300.00 lb
Net Weight 48,140.00 lb 24.07 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
24.07	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

*

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

*

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

*

CUBIC YARDS

20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	X	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363060

18308

KELLER CANYON LANDFILL
901 BAILEY ROAD
PITTSBURG, CA

674624
Gettler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 95670
Contract: #212Y712895

SITE	TICKET	GRID
01	4268462	

WEIGHMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	9:39 am

DATE OUT	TIME OUT
28 November 2007	9:39 am

VEHICLE	ROLL OFF
DBT204	

REFERENCE	ORIGIN
363061	OAKLAND

Gross Weight 78,780.00 lb
Stored Tare Weight 32,460.00 lb
Net Weight 46,320.00 lb 23.16 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
23.16	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE Scott Duval

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

*

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

*

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

*

CUBIC YARDS

20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	X	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363061

18406

KELLER CANYON LANDFILL
901 BAILEY ROAD
PITTSBURG, CA

674624
Gettler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 75670
Contract: #212Y712895

SITE	TICKET	GRID
01	426944	

WEIGHTMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	12:18 pm

DATE OUT	TIME OUT
28 November 2007	12:18 pm

VEHICLE	ROLL OFF
DBT245	

REFERENCE	ORIGIN
363059	OAKLAND

01 Gross Weight 82,080.00 lb
Stored Tare Weight 32,740.00 lb
Net Weight 49,340.00 lb 24.67 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
24.67	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

❑ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

❑ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

❑ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

❑ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

* [illegible] | 11-28-07

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

SWIC - 212971289S

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER [illegible]

ADDRESS [illegible]

CITY, STATE, ZIP [illegible]

PHONE [illegible]

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

* [illegible] | 11-28-07

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
[illegible]	345

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

* [illegible] | 11-28-07

CUBIC YARDS

20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	X	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363059

18409

DELTA CANYON LANDFILL
201 BAILEY ROAD
PITTSBURG, CA

674624
Settler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 95670
Contract: #212Y712895

SITE	TICKET	GRID
01	426967	

WEIGHMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	1:01 pm

DATE OUT	TIME OUT
28 November 2007	1:01 pm

VEHICLE	ROLL OFF
OBT204	

REFERENCE	ORIGIN
363058	OAKLAND

00 Gross Weight 79,360.00 lb
Stored Tare Weight 32,460.00 lb
Net Weight 46,900.00 lb 23.45 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
23.45	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

*

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

*

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

*

CUBIC YARDS 20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	X	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363056

18410

KELLER CANYON LANDFILL
901 BAILEY ROAD
PITTSBURG, CA

674624
Gettler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 95670
Contract: #212Y712895

SITE	TICKET	GRID
01	426979	

WEIGHMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	1:23 pm

DATE OUT	TIME OUT
28 November 2007	1:23 pm

VEHICLE	ROLL OFF
MT23	

REFERENCE	ORIGIN
363057	OAKLAND

Gross Weight 80,620.00 lb
Stored Tare Weight 30,300.00 lb
Net Weight 50,320.00 lb 25.16 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
25.16	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

MAILING ADDRESS

CITY, STATE, ZIP

PHONE

CONTACT PERSON

SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE

* [signature] | 11-27-07

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY

WASTE ACCEPTANCE NO.

—

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER

ADDRESS

CITY, STATE, ZIP

PHONE

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE

* [signature] | 11-27-07

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
[illegible]	3

END DUMP	BOTTOM DUMP	TRANSFER
❑	❑	❑

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
❑	❑	❑	❑

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | DATE

* [signature] | 11-27-07

CUBIC YARDS

20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL	X	
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363057

18398

KELLER CANYON LANDFILL
901 BAILEY ROAD
PITTSBURG, CA

674624
Gettler - Ryan, Inc.
3140 Gold Camp Road #170

Rancho Cordova, CA 95670
Contract: #212Y712095

SITE	TICKET	GRID
01	426860	

WEIGHMASTER: FELIPE C

DATE IN	TIME IN
28 November 2007	9:36 am

DATE OUT	TIME OUT
28 November 2007	9:36 am

VEHICLE	ROLL OFF
DBT2+5	

REFERENCE	ORIGIN
363048	OAKLAND

Gross Weight 80,660.00 lb
Stored Tare Weight 32,740.00 lb
Net Weight 47,920.00 lb 23.96 TN

Inbound - SCALE TICKET

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
23.96	TN	SW-CONT SOIL				
1.00	LD	ENVIRONMENTAL FEE				
1.00	LD	FUEL RECOVERY FEE				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE Dwayne Jones

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☐ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST

GENERATOR	**WASTE ACCEPTANCE NO.**
MAILING ADDRESS	212710 – 595
CITY, STATE, ZIP	REQUIRED PERSONAL PROTECTIVE EQUIPMENT
PHONE	❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT ❑ TY-VEK ❑ OTHER
CONTACT PERSON	SPECIAL HANDLING PROCEDURES:
SIGNATURE OF AUTHORIZED AGENT / TITLE / DATE	
*	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:

❑ DISPOSAL ❑ SLUDGE
❑ CONSTRUCTION ❑ WOOD
❑ DEBRIS ❑ OTHER
❑ SPECIAL WASTE

GENERATING FACILITY

RECEIVING FACILITY

TRANSPORTER	NOTES:
ADDRESS	VEHICLE LICENSE NUMBER / TRUCK NUMBER
CITY, STATE, ZIP	245
PHONE	END DUMP ❑ BOTTOM DUMP ❑ TRANSFER ❑
SIGNATURE OF AUTHORIZED AGENT OR DRIVER / DATE	ROLL-OFF(S) ❑ FLAT-BED ❑ VAN ❑ DRUMS ❑
*	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT / DATE

*

CUBIC YARDS: 20

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
❑ SOIL		
❑ CONSTRUCTION DEBRIS		
❑ NON-FRIABLE ASBESTOS		
❑ WOOD		
❑ ASH		
❑ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 363248

11/27/2007	002172353JJK	CA300713	78740	32160	46580	23.29	ROLLS ROYCE ENGINE SERVICES
	002185671JJK	CA300713	79780	30900	48880	24.44	ROLLS ROYCE ENGINE SERVICES
	002185672JJK	CA300713	80140	31600	48540	24.27	ROLLS ROYCE ENGINE SERVICES
	002185673JJK	CA300713	79000	32740	46260	23.13	ROLLS ROYCE ENGINE SERVICES
	002185674JJK	CA300713	77980	32720	45260	22.63	ROLLS ROYCE ENGINE SERVICES
	002185675JJK	CA300713	77560	32220	45340	22.67	ROLLS ROYCE ENGINE SERVICES
	002185676JJK	CA300713	78280	32540	45740	22.87	ROLLS ROYCE ENGINE SERVICES
	002185677JJK	CA300713	80560	30900	49660	24.83	ROLLS ROYCE ENGINE SERVICES
	002185678JJK	CA300713	60420	32340	28080	14.04	ROLLS ROYCE ENGINE SERVICES
	002185681JJK	CA300713	77080	32260	44820	22.41	ROLLS ROYCE ENGINE SERVICES
	002185682JJK	CA300713	79640	28880	50760	25.38	ROLLS ROYCE ENGINE SERVICES
TOTAL COUNT Total	11 Documents:				**499920**	**249.96**	
TOTAL COUNT	**11**				**499920**	**249.96**	

Risse, Geoffrey

From: Gurss, Greg
Sent: Friday, January 25, 2008 10:36 AM
To: Geoffrey Risse
Subject: FW: Emailing: DOC012508

Attachments: DOC012508.pdf

DOC012508.pdf
(26 KB)

-----Original Message-----
From: Dave Goldberg [mailto:DGoldberg@Rolls-RoyceESO.com]
Sent: Friday, January 25, 2008 10:03 AM
To: Gurss, Greg
Subject: Emailing: DOC012508

<<DOC012508.pdf>>
Hi Greg,

Here is the soil to Kettleman info.

Total of 11 truck loads, 249.96 Tons.

Designated Facility:

Chemical Waste Management
35251 Old Skyline Rd.
Kettleman City, Ca. 93239

U.S. EPA I.D. # CAT000646117

All of the soil to Kettleman was described as follows:

Profile # CA 300713

RQ, Environmentally Hazardous Substances, Solid
N.O.S., 9, UN3077,P.G.III,
(Lead)

State of Ca. Waste code 611

Please let me know if you need any additional info. (Manifest Copies) or will this work for your purpose.

Thanks!
Dave

The message is ready to be sent with the following file or link attachments:

DOC012508

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Generator, mail a copy to DTSC, P.O. Box 400, Sacramento, CA 95812-0400 within 30 days

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD080709587	1	1-800-424-9300	003308823 JJK

GENERATOR

5. Generator's Name and Mailing Address
Rolls-Royce Engine Services Oakland, Inc.
7200 Earhart Rd., Oakland, CA. 94621
Generator's Phone: 510-615-5095

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
~~Evergreen Environmental Services~~ Philip West Industrial Services
U.S. EPA ID Number: CAROOOO84445 ~~CAD982413262~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Evergreen Oil, Inc.
6880 Smith Ave.
Newark, CA 94560
510-795-4400
U.S. EPA ID Number: CAD980887418
Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-RCRA HAZARDOUS WASTE, Liquid	1 ~~CH~~	TT	4,800	GAL	221	223	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID GOLDBERG
Signature
Month: 10 Day: 18 Year: 07

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Charles Heard
Signature: Charles Heard
Month: 10 Day: 18 Year: 07

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Generator, mail a copy to DTSC, P.O. Box 400, Sacramento, CA 95812-0400 within 30 days

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD080709587
2. Page 1 of: 1
3. Emergency Response Phone: 1-800-424-9300
4. Manifest Tracking Number: 003368824 JJK

5. Generator's Name and Mailing Address
Rolls-Royce Engine Service Oakland Inc.
7200 Earhart Rd., Oakland CA. 94621
Generator's Phone: 510-615-5095

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
~~Evergreen Environmental Services~~ Philip West Industrial Services
U.S. EPA ID Number: ~~CAD982419268~~ CAR000084145

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Evergreen Oil, Inc.
6880 Smith Ave.
Newark, CA 94560
Facility's Phone: 510-795-4400
U.S. EPA ID Number: CAD980887418

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-RCRA HAZARDOUS WASTE, Liquid	1	TT	4800 GAL		221	223	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID GOLDBERG
Signature
Month: 10 Day: 18 Year: 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Charles Heard
Signature
Month: 10 Day: 18 Year: 07

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CADC80709587	1	1-800-424-9300	003303825 JJK

GENERATOR

5. Generator's Name and Mailing Address
Rolls-Royce Engine Service Oakland
7200 Earhart Rd., Oakland, CA. 94621
Generator's Phone: 510-615-5095

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
~~Evergreen Environmental Services~~ Philip West Industrial Services
U.S. EPA ID Number CAR000084475 ~~CAD982413282~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Evergreen Oil, Inc.
6880 Smith Ave.
Newark, CA 94560
510-795-4400
U.S. EPA ID Number CAD980887418

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. (Non RCRA) HAZARDOUS WASTE Liquid	1	TT	2,500	GAL	221	223	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information WEAR PROPER PPE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name DAVID GOLDBERG Signature [signature] Month 10 Day 22 Year 07

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name CHARLES HEARD Signature [signature] Month 10 Day 22 Year 07

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number
U.S. EPA ID Number
Facility's Phone

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

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Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)