



August 18, 2008

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

**Subject: 2nd Quarter 2008 Groundwater Monitoring and Sampling 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) has prepared this second quarter 2008 groundwater monitoring and sampling report for the above-referenced property. This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the site.

Site Location and 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 at an average elevation of approximately 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 consist 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-gallon 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

Groundwater Monitoring

On June 26 and July 3, 2008, GR personnel conducted quarterly groundwater monitoring of nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4). Work at the site included measuring static groundwater levels, evaluating groundwater in the wells for the presence of petroleum hydrocarbons, and purging and sampling the wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with GR Field Methods and Procedures, Quarterly Groundwater Sampling (attached).

On June 26, 2008, GR collected depth to groundwater measurements in fifteen wells (MW-1 through MW-7, MW-9 through MW-15 and MW-18) and checked groundwater for the presence of Separate-Phase Hydrocarbons (SPH). Approximately 1.14 ft of SPH were observed in well MW-18.

Approximately 0.125 gallon (16 ounces) of SPH and 1 gallon of water were bailed from well MW-18 and were stored onsite in a 55-gallon DOT approved drum pending disposal. On July 3, 2008, GR personnel collected depth to groundwater measurements in four monitoring wells (MW-8, MW-17, NPORD MW-3 and NPORD MW-4) and checked the groundwater in the wells for the presence of SPH. SPH were not present in any of the four wells. Water level data, groundwater elevations, and SPH thicknesses are presented in attached Table 1. Field data sheets for this event are attached.

Groundwater monitoring wells MW-1 through MW-15, MW-17, MW-18 and NPORD MW-3 and NPORD MW-4 were purged and sampled on the same date they were monitored. Well MW-18 was not sampled due to presence of 1.14 feet of SPH. Groundwater samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) of Davis, California. A copy of the laboratory analytical reports and chain-of-custody documents are attached. Purge water generated from the sampling activities was stored onsite in 55-gallons DOT approved drums pending disposal. GR understands that the disposal of water generated will be handled by RR.

Results

Groundwater Gradient

On June 26, 2008, the groundwater flow direction varied with hydraulic gradients ranging between 0.01 ft/ft to 0.02 ft/ft. A Potentiometric Map is presented as Figure 3.

Analytical Results

Groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-tert Butyl Ether (MtBE), and naphthalene 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. Groundwater chemical analytical results for this event are presented in Table 1.

Concentrations of TPHg, TPHd, TPHmo, TPHjf, BTEX, MtBE and naphthalene were reported below the laboratory method detection limits in groundwater sample collected from well MW-12.

Concentrations of TPHg were detected in water samples collected from wells MW-10 and MW-13, at levels of 120 parts per billion (ppb) and 720 ppb, respectively. Concentrations of TPHg were reported below the laboratory method detection limits in water samples collected from the remaining wells.

TPHd was detected in eleven wells at concentrations ranging from 200 ppb in well MW-13 to 3,300 ppb in well MW-7. Concentrations of TPHmo were detected in ten wells at concentrations ranging from 700 ppb in well NPORD MW-4 to 10,000 ppb in well MW-7. TPHjf was detected in seventeen wells at concentrations ranging from 51 ppb in well MW-1 to 4,100 ppb in well MW-13.

BTEX constituents were reported as below the laboratory method report limit in all of the wells, except for Benzene and Xylenes detected in well MW-13 at concentrations of 2.0 ppb and 0.60 ppb, respectively, and Toluene detected in well MW-3 at 1.7 ppb.

MtBE was detected in wells MW-3, MW-13, MW-14 at concentrations of 0.93 ppb, 3.3 ppb, and 1.4 ppb, respectively. Naphthalene was detected in wells MW-10, MW-13, and MW-14 at concentrations of 5.0 ppb, 3.3 ppb, and 3.1 ppb, respectively. TPHg, TPHd, TPHmo and TPHjf concentrations are presented on Figure 4.


Conclusions and Recommendations


Based on the results of this groundwater monitoring and sampling event, GR concludes and recommends the following:

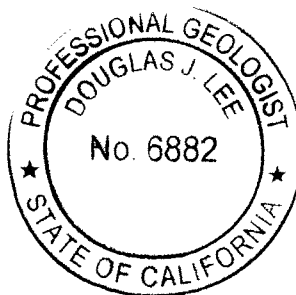
- Very low to non-detectable concentrations of dissolved petroleum hydrocarbons were present in wells MW-1, MW-2 and MW-12 located along the northeast edge of the site;
- Detectable dissolved concentrations of TPHg appear limited to the areas in the vicinity of wells MW-10, MW-11, MW-13 and MW-14;
- Detectable dissolved concentrations of TPHd, TPHmo and TPHjf were present in a majority of the site wells. The highest concentrations were detected in the northwest portion of the site in the vicinity of Test Cells 5, 6, and 7; and
- GR recommends continuing quarterly groundwater monitoring and sampling of all wells to further evaluate groundwater flow direction, groundwater quality and plume stability over time.

If you have any questions, please feel free to contact our Rancho Cordova office at (916) 631-1300.

Sincerely,
Gettler-Ryan Inc.


Geoffrey D. Risse
Staff Geologist


Douglas J. Lee, P.G. No. 6882
Senior Geologist



Attachments: Table 1, Groundwater Monitoring Results
Figure 1, Vicinity Map
Figure 2, Site Plan
Figure 3, Potentiometric Map
Figure 4, Concentration Map
GR Field Methods and Procedures
Field Data Sheets
Laboratory Analytical Report and Chain of Custody

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

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
				Thickness (feet)												
MW-1	10/3/07	7.17	3.04	0.00		4.13	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.17	3.02	0.00		4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.17	3.38	0.00		3.79	<50	<50	<100	51⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	10/3/07	7.03	2.80	0.00		4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.03	2.94	0.00		4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.03	3.32	0.00		3.71	<50	<50	<100	97⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	10/2/07	6.73	4.56	0.00		2.17	<50	<50	<100	410	<0.50	<0.50	<0.50	<0.50	1.6 ⁴	<0.50
	3/14/08	6.73	3.98	0.00		2.75	<50	<50	<100	120 ⁹	<0.50	<0.50	<0.50	<0.50	0.99	<0.50
	6/26/08	6.73	4.21	0.00		2.52	<50	<50	<100	610⁷	<0.50	1.7	<0.50	<0.50	0.93	<0.50
MW-4	10/2/07 ⁴	9.79	5.81	0.00		3.98	<50	86	<100	280	<0.50	0.63	<0.50	<0.50	<0.50	<0.50
	3/14/08	9.79	5.82	0.00		3.97	<50	3,300	2,400	3,400 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.79	6.08	0.00		3.71	<50	2,300	1,900	2,700⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	10/2/07	8.35	4.75	0.00		3.60	<50	5,600	11,000	5,300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	8.35	4.40	0.00		3.95	<50	1,200 ⁶	1,700	1,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	8.35	4.68	0.00		3.67	<50	1,400⁶	3,200	2,000⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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				Thickness (feet)												
MW-6	10/2/07	9.51	5.90	0.00		3.61	<50	3,000 ⁶	7,700	2,500 ⁷	<0.50	<0.50	0.86	1.1	<0.50	0.53
	3/14/08	9.51	5.55	0.00		3.96	<50	3,600 ¹⁰	7,600	2,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.51	5.80	0.00		3.71	<50	3,200¹⁰	9,400	3,200⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	10/2/07	9.23	5.68	0.00		3.55	<50	12,000 ⁶	34,000	9,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	0.76
	3/14/08	9.23	5.32	0.00		3.91	<50	7,900 ⁶	20,000	5,500 ¹¹	<0.50	<0.50	<0.50	<0.50	<0.50	3.5
	6/26/08	9.23	5.56	0.00		3.67	<50	3,300⁶	10,000	3,300⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-8	9/14/07	8.25	4.65	0.00		3.60	<50	790 ³	2,700	1,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland														
	7/3/04	8.25	4.49	0.00		3.76	<50	1,200⁶	4,400	1,800⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-9	10/3/07	9.44	5.81	0.00		3.63	<50	7,700	10,000	6,700	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	9.44	5.51	0.00		3.93	<50	6,400	8,000	4,000 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.44	5.72	0.00		3.72	<50	1,600¹⁰	1,800	1,800⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10	10/3/07	7.51	3.89	0.00		3.62	110	4,200	1,300	4,500	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.51	3.68	0.00		3.83	53	420	270	420 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	0.50
	6/26/08	7.51	3.80	0.00		3.71	120	1,200	1,000	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	5.0

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				Thickness (feet)												
MW-11	10/3/07	7.60	4.01	0.00		3.59	80	250	490	610	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.60	3.71	0.00		3.89	61	410 ⁶	1,200	520 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.60	3.92	0.00		3.68	<50	2,700¹⁰	7,300	3,600¹⁵	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-12	10/3/07	7.32	3.61	0.00		3.71	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.32	3.35	0.00		3.97	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.32	3.60	0.00		3.72	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-13	10/3/07	6.10	2.86	0.00		3.24	160	70 ⁸	<100	660	<0.50	<0.50	<0.50	<0.50	1.2 ⁴	1.7
	3/14/08	6.10	1.96	0.00		4.14	350 ¹²	490	130 ¹³	1,200	0.89	<0.50	<0.50	<0.50	2.0	8.9
	6/26/08	6.10	2.57	0.00		3.53	720	200⁸	<100	4,100¹⁵	2.0	<0.50	<0.50	0.60	3.3	3.3
MW-14	10/2/07	6.42	2.40	0.00		4.02	67	300	870	1,400	<0.50	<0.50	<0.50	<0.50	1.4 ⁴	6.1
	3/14/08	6.42	2.44	0.00		3.98	50	250 ⁶	350	500 ⁷	<0.50	<0.50	<0.50	<0.50	1.7	5.0
	6/26/08	6.42	2.62	0.00		3.80	<50	570¹⁰	2,700	2,000¹⁵	<0.50	<0.50	<0.50	<0.50	1.4	3.1
MW-15	10/2/07	7.51	4.85	0.00		2.66	<50	99	<100	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.51	4.62	0.00		2.89	<50	<50	<100	88 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.51	4.81	0.00		2.70	<50	<50	<100	84⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Napthalene (ppb)
				Thickness (feet)	Thickness (feet)											
MW-17	9/14/07	0.04	4.10	0.00		-4.06	<50	<50	220	150 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08					Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland										
	7/3/08	0.04	1.98	0.00		-1.94	<50	<50	<100	84⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-18	10/2/07	7.05	4.15	0.55		3.34**			Not developed or sampled due to presence of FPP							
	3/14/08	7.05	3.62	0.63		3.93**			Not sampled due to presence of FPP							
	6/26/08	7.05	4.11	1.14		3.85**			Not sampled due to presence of FPP							
NPORD MW-3	9/14/07	8.11	4.43	0.00		3.68	<50	<50	<100	64 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08					Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland										
	7/3/08	8.11	3.96	0.00		4.15	<50	<50	<100	99⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NPORD MW-4	9/14/07	10.06	6.48	0.00		3.58	50	1,000 ³	1,400	2,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08					Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland										
	7/3/08	10.06	6.26	0.00		3.80	<50	360⁶	700	960⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
QA	9/14/07	--	--	--		--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	10/2/07	--	--	--		--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	--	--	--		--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 1
 Groundwater Monitoring Results
 Rolls-Royce Engine Service Test Facility
 6701 Old Earhart Road
 Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH		GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
				Thickness (feet)												
QA	6/26/08 ¹⁴	--	--	--		--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(con't)	7/3/08	--	--	--		--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Explanation:

TOC = Top of Casing Elevation
 DTW = Depth to Water
 GWE = Groundwater Elevation
 ft = feet
 SPH = Separate Phase Hydrocarbons
 ppb = parts per billion (µg/L)
 NA = Not Analyzed
 -- = Not Applicable
 QA = Trip Blank
 TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 TPHjf = Total Petroleum Hydrocarbons as jet fuel
 B = Benzene
 T = Toluene

Analytical Laboratory:

Kiff Analytical LLC (ELAP # 2236)

Analytical Methods:

TPHg/BTEX/MtBE/Naphthalene by EPA Method 8260B
 TPHd/TPHmo/TPHjf by modified EPA Method 8015

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Explanation: (con't)

E = Ethylbenzene

X = total xylenes

MtBE = Methyl tert-Butyl Ether

** = GWE corrected for the presence of SPH [(TOC-DTW) + (SPH thickness x SPH specific gravity)]. Specific gravity of SPH is assumed to be 0.8.

Notes:

TOC elevations surveyed relative to mean sea level by Morrow Surveying (PLS #5161) on October 8, 2007

¹ With Silica Gel Cleanup

² Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Jet Fuel

³ Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Diesel Fuel

⁴ Matrix spike/matrix spike duplicate results associated with these samples for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

⁵ Due to the formation of an emulsion in this sample, the sample was centrifuged and decanted prior to extraction.

⁶ Hydrocarbons present in this sample are higher-boiling than typical Diesel Fuel.

⁷ Hydrocarbons present in this sample are higher-boiling than typical Jet Fuel.

⁸ Lower boiling hydrocarbons are present in this sample that are atypical for Diesel Fuel.

⁹ Discrete peaks present in this sample that are atypical for Jet Fuel.

¹⁰ Some lower-boiling hydrocarbons than Diesel and some higher-boiling hydrocarbons than Diesel are present in this sample.

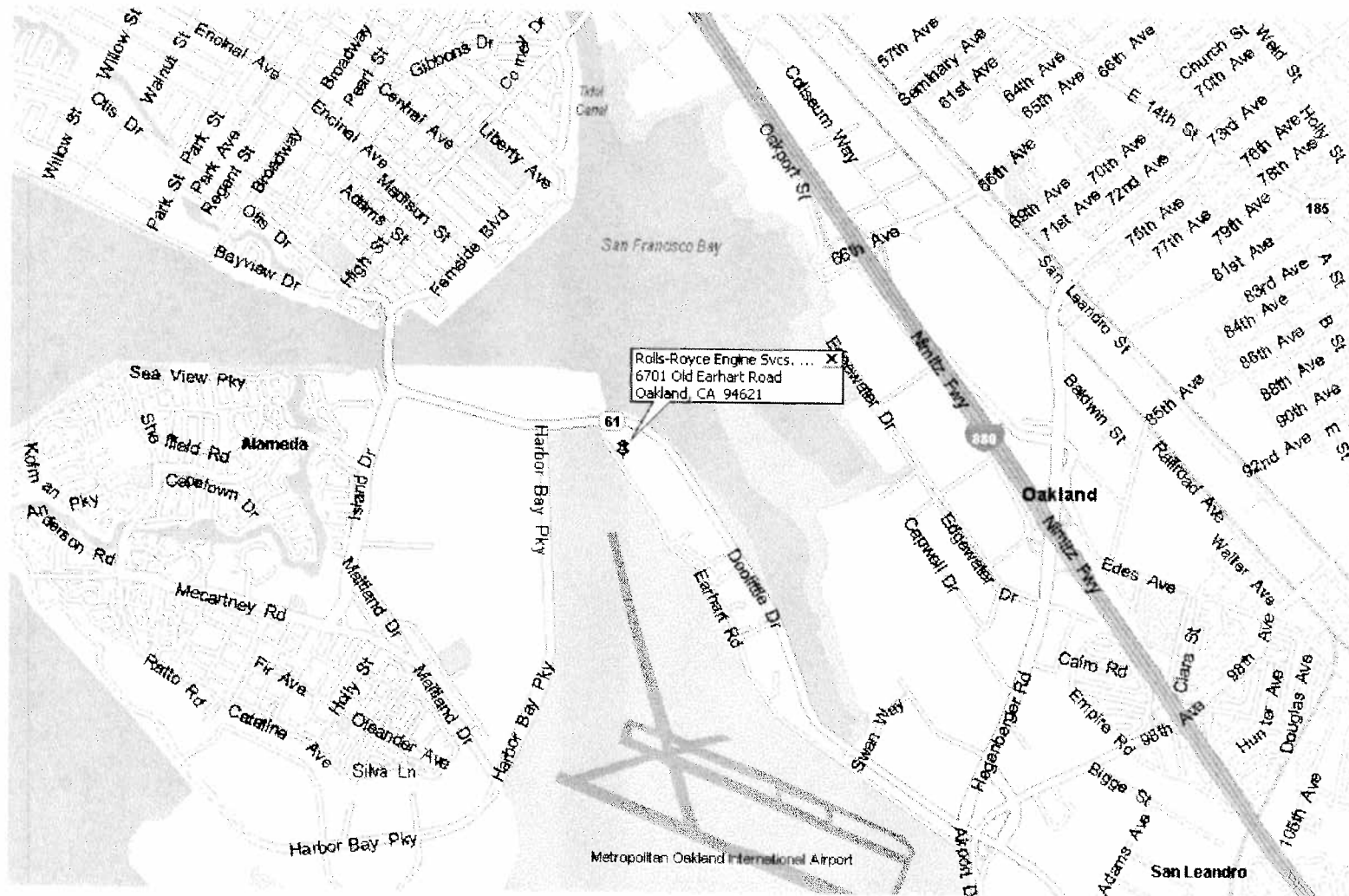
¹¹ Both lower-boiling and higher-boiling hydrocarbons than Jet Fuel are present in this sample.

¹² Sample contained primarily compounds not found in typical Gasoline.

¹³ Hydrocarbons present in this sample are lower-boiling than typical Motor Oil

¹⁴ Sample was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4-inch in diameter

¹⁵ Lower boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.



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
25-948218.7

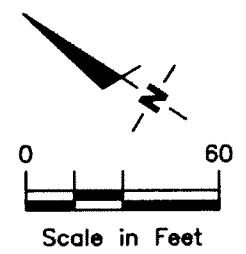
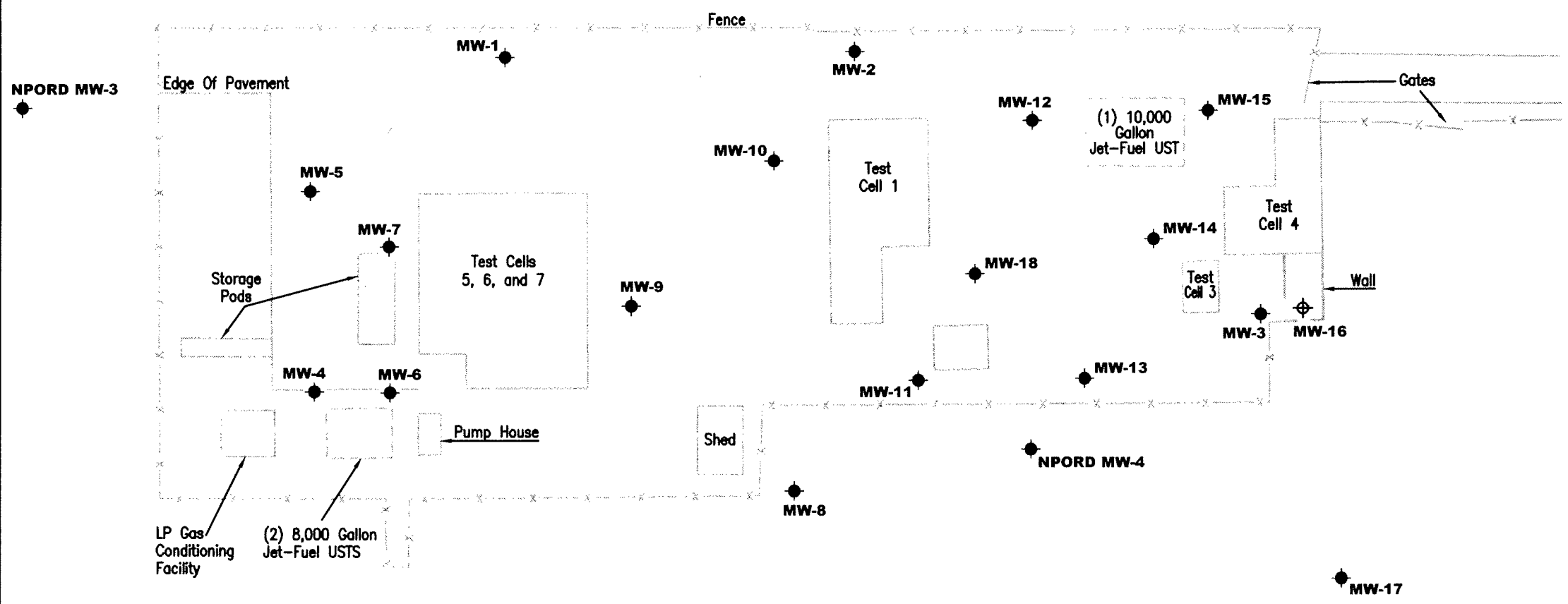
REVIEWED BY

DATE
11/13/07

REVISED DATE

EXPLANATION

- Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig



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

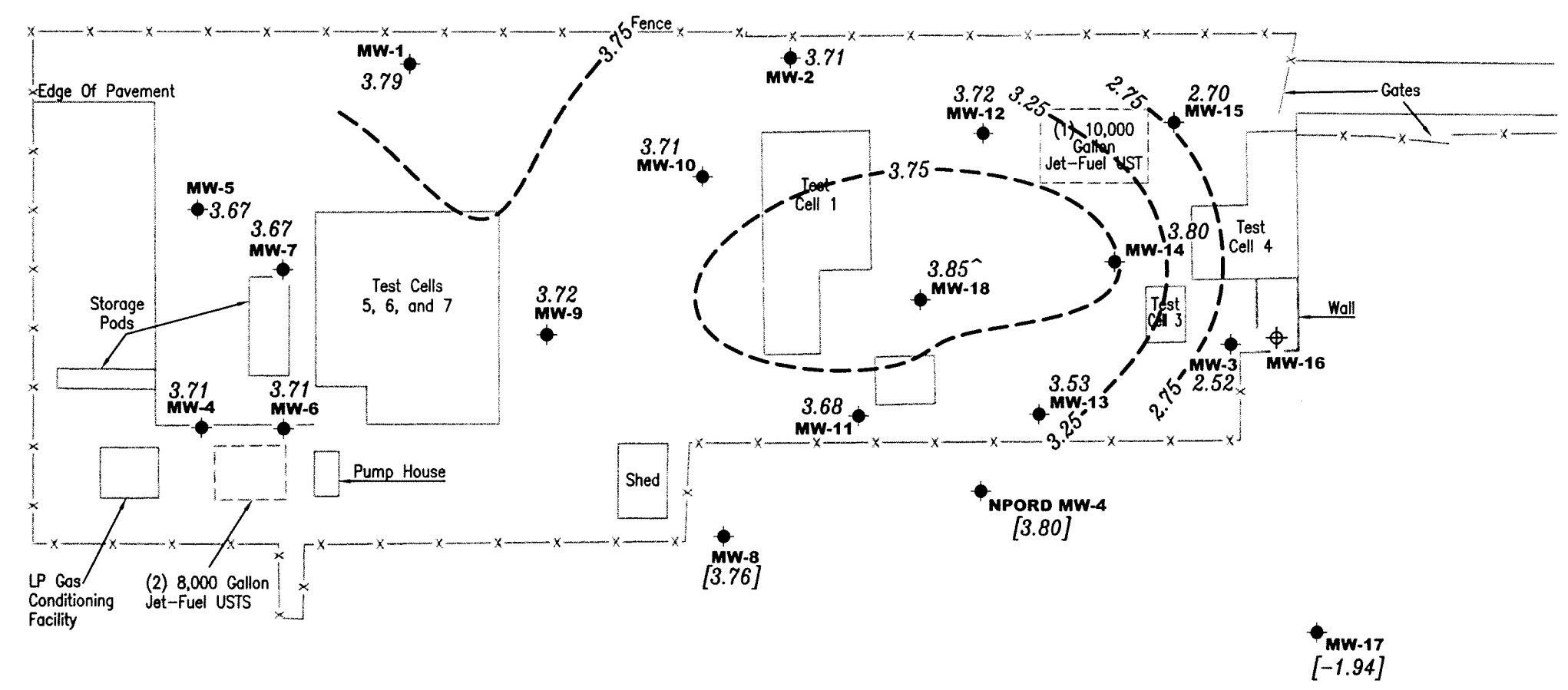
GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER 948218.2
REVIEWED BY
DATE 11/07
REVISED DATE

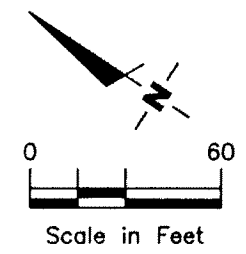
FILE NAME: P:\Enviro\Rolls Royce\007-Rolls Royce.dwg | Layout Tab: Site Plan

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- [99.99] Not used in contouring – monitored on July 3, 2008
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons



Groundwater flow direction varies at a gradient of 0.01 to 0.02 Ft./Ft.



[4.15] NPORD MW-3

MW-8 [3.76]

NPORD MW-4 [3.80]

MW-17 [-1.94]

POTENTIOMETRIC MAP
 Rolls-Royce Engine Services Test Facility
 6701 Old Earhart Road
 Oakland, CA

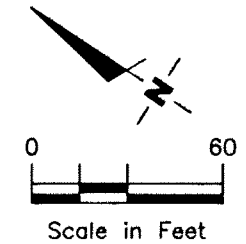
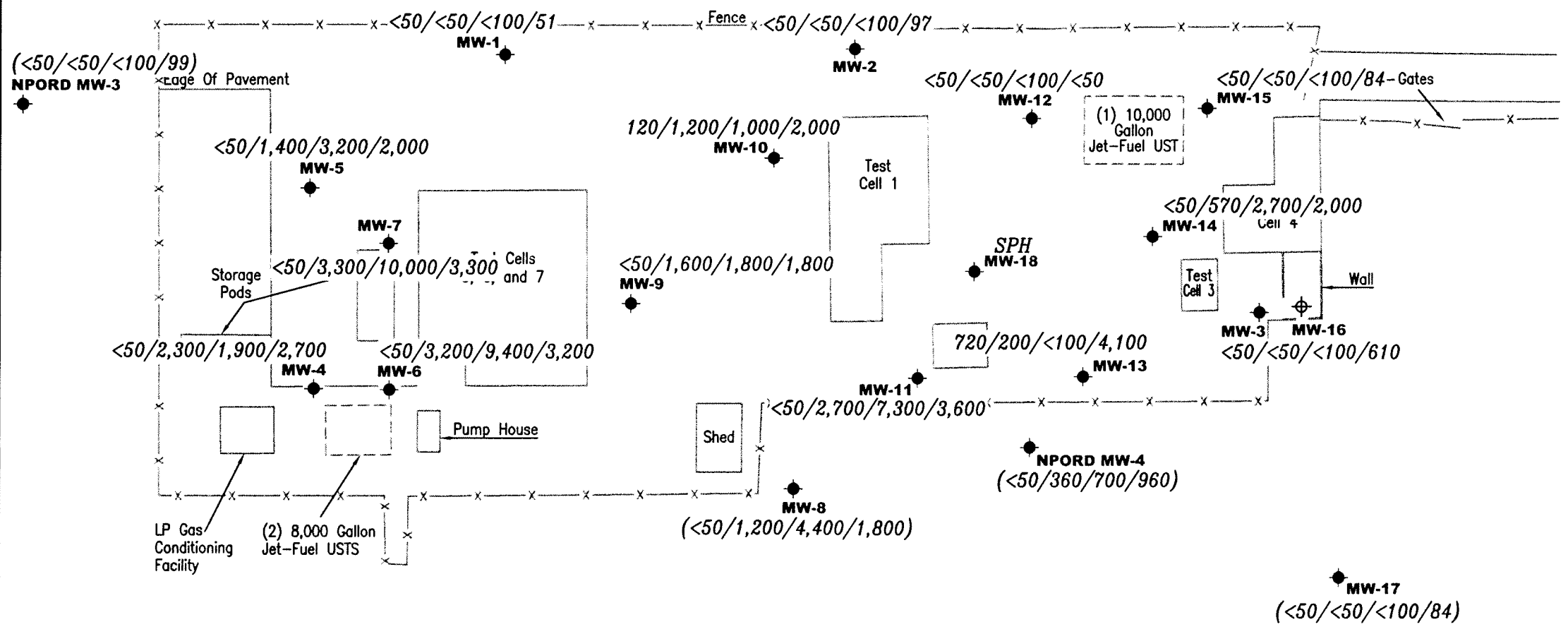
GETTLER - RYAN INC.
 6747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

PROJECT NUMBER 948218.2
 REVIEWED BY
 DATE June 26, 2008
 REVISED DATE
 FILE NAME: P:\Enviro\Rolls Royce\008-Rolls Royce.dwg | Layout Tab: Pot2

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

EXPLANATION

- Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig
- A/B/C/D Total Petroleum Hydrocarbons
TPH as Gasoline/TPH as Diesel/
TPH as Motor Oil/TPH as Jet
Fuel concentrations in ppb
- (A/B/C/D) Sampled on July 3, 2008
- SPH Separate Phase Hydrocarbons



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

CONCENTRATION MAP
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

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

PROJECT NUMBER: 948218.2
REVIEWED BY: [Signature]
DATE: June 26, 2008
REVISED DATE: [Blank]

FILE NAME: P:\Enviro\Rolls Royce\008-Rolls Royce.dwg | Layout Tab: Con2

STANDARD OPERATING PROCEDURE - QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analyses by the analytical laboratory. Prior to sample collection, the type of analyses to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analyses is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is recorded in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH, and electrical conductivity are measured a minimum of three times during purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include job number, sample identification, collection date and time, analyses, preservative (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4 °C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery to the laboratory.

The chain of custody includes the job number, type of preservation, if any, analyses requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory-supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

WELL CONDITION STATUS SHEET

Client/Facility #: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job # 25-948218.1
 Event Date: ~~6/26/08~~ 6/26/08
 Sampler: JH

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-6	ok						→	N	N	8" Monogram	N
MW-4	ok						→	N	N	"	N
MW-7	ok						→	N	N	"	N
MW-5	ok						→	N	N	"	N
MW-1	ok						→	N	N	8" Bant King yon	N

Comments _____

WELL CONDITION STATUS SHEET

Client/Facility #: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job # 25-948218.1
 Event Date: 6-26-08
 Sampler: Alt

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-9	OK	OK	OK	OK	OK	OK	OK	N	N	8" MORRISON	✓
MW-10	OK	OK	OK	OK	OK	OK	OK	N	N	8" MORRISON	N
MW-11	OK	OK	OK	OK	OK	OK	OK	N	N	8" MORRISON	N
MW-12	OK	OK	OK	OK	OK	OK	OK	N	N	8" MORRISON	N
MW-2	OK	OK	OK	2 = stripped 1 = OK	OK	OK	OK	N	N	8" BOART LONGYER	N

Comments _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: JH

Well ID: MW-1
 Well Diameter: 2 1/4 in.
 Total Depth: 7.45 ft.
 Depth to Water: 3.38 ft.
4.07 xVF .17 = .69

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 x3 case volume = Estimated Purge Volume: 2.07 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.19

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1255
 Sample Time/Date: 1320 6/26/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: Clear
 Water Color: Clay Odor: Y 10
 Sediment Description: 1.5 HW
 Volume: _____ gal. DTW @ Sampling: 407

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1258</u>	<u>.75</u>	<u>7.42</u>	<u>out of Range</u>	<u>23.4</u>	_____	_____
<u>1302</u>	<u>1.5</u>	<u>7.27</u>	<u>↓</u>	<u>23.1</u>	_____	_____
<u>1305</u>	<u>2.25</u>	<u>7.24</u>	<u>↓</u>	<u>23.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 †(inclusive)
 Sampler: AT

Well ID: MW-2
 Well Diameter: 214 in.
 Total Depth: 11.80 ft.
 Depth to Water: 3.32 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water: 8.48 xVF 0.17 = 1.44 x3 case volume = Estimated Purge Volume: 4.32 gal.
 Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.01

Purge Equipment:
 Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:
 Disposable Bailer: X
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1310 Weather Conditions: Clear
 Sample Time/Date: 1335 / 6-26-08 Water Color: DARK Odor: DI N
 Approx. Flow Rate: _____ gpm. Sediment Description: MED.UM
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1313</u>	<u>1.5</u>	<u>6.91</u>	<u>UR</u>	<u>23.8</u>	_____	_____
<u>1316</u>	<u>3</u>	<u>6.94</u>	<u>UR</u>	<u>23.6</u>	_____	_____
<u>1318</u>	<u>4.5</u>	<u>6.93</u>	<u>UR</u>	<u>23.6</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls-Royce Engine
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: SH

Well ID: MW-3
 Well Diameter: 214 in.
 Total Depth: 12.10 ft.
 Depth to Water: 4.21 ft.
7.89 xVF

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.79
 x3 case volume = Estimated Purge Volume: 4.5 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1151 Weather Conditions: Clear
 Sample Time/Date: 1200 6-26-08 Water Color: Grey Odor: Y I N
 Approx. Flow Rate: _____ gpm. Sediment Description: Moderate
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.98

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1155</u>	<u>1.5</u>	<u>7.21</u>	<u>3002</u>	<u>20.1</u>	_____	_____
<u>1200</u>	<u>3.0</u>	<u>7.09</u>	<u>3054</u>	<u>20.3</u>	_____	_____
<u>1206</u>	<u>4.5</u>	<u>7.11</u>	<u>3031</u>	<u>20.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>7</u> x vva vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEXMTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: JH

Well ID: MW-4
 Well Diameter: 2 1/4 in.
 Total Depth: 9.89 ft.
 Depth to Water: 6.08 ft.
3.81 xVF .17 = .64

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 x3 case volume = Estimated Purge Volume: 1.94 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.82

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1045
 Sample Time/Date: 1110 6/26/08
 Approx. Flow Rate: - gpm.
 Did well de-water? no If yes, Time: _____

Weather Conditions: clear
 Water Color: cloudy Odor: Y 10
 Sediment Description: Heavy
 Volume: _____ gal. DTW @ Sampling: 6.39

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1048</u>	<u>.75</u>	<u>7.39</u>	<u>1207</u>	<u>20.3</u>		
<u>1051</u>	<u>1.5</u>	<u>7.24</u>	<u>1253</u>	<u>20.1</u>		
<u>1054</u>	<u>2.0</u>	<u>7.01</u>	<u>1286</u>	<u>20.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: SH

Well ID: MW-5
 Well Diameter: 2.4 in.
 Total Depth: 9.90 ft.
 Depth to Water: 4.68 ft.
5.22 xVF = .17 = .88

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.72 gal. Estimated Purge Volume: 2.66 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1215
 Sample Time/Date: 1245 6/26/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: clear
 Water Color: cloudy Odor: Y10
 Sediment Description: Heavy
 Volume: _____ gal. DTW @ Sampling: 504

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm μ S)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1218</u>	<u>.75</u>	<u>7.61</u>	<u>1948</u>	<u>22.6</u>		
<u>1221</u>	<u>1.5</u>	<u>7.35</u>	<u>1977</u>	<u>22.3</u>		
<u>1224</u>	<u>2.5</u>	<u>7.27</u>	<u>1994</u>	<u>22.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>7</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: JH

Well ID: MW-6
 Well Diameter: 3/4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 5.80 ft.
4.20 xVF .17 = .71

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.64 gal. Estimated Purge Volume: 2.14 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1000
 Sample Time/Date: 1020 6/26/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: clean
 Water Color: cloudy Odor: Y 10
 Sediment Description: 1.5 H₂O
 Volume: _____ gal. DTW @ Sampling: 6.24

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - <u>SY</u>)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1003</u>	<u>.75</u>	<u>7.21</u>	<u>2029</u>	<u>20.0</u>	_____	_____
<u>1006</u>	<u>1.5</u>	<u>7.20</u>	<u>2042</u>	<u>20.1</u>	_____	_____
<u>1009</u>	<u>2.15</u>	<u>7.13</u>	<u>2063</u>	<u>20.3</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>67</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: JH

Well ID: MW-7
 Well Diameter: 214 in.
 Total Depth: 10.00 ft.
 Depth to Water: 5.56 ft.
4.44 xVF = .17 = .75

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.44 gal. Estimated Purge Volume: 2.26 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1135
 Sample Time/Date: 1200 6/26/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? no If yes, Time: _____

Weather Conditions: clear
 Water Color: clay Odor: BIN
 Sediment Description: Heavy
 Volume: _____ gal. DTW @ Sampling: 6.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1138</u>	<u>.75</u>	<u>7.52</u>	<u>2709</u>	<u>22.4</u>	_____	_____
<u>1141</u>	<u>1.5</u>	<u>7.36</u>	<u>2743</u>	<u>22.1</u>	_____	_____
<u>1144</u>	<u>2.25</u>	<u>7.27</u>	<u>2767</u>	<u>22.0</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	<u>67</u> x vov vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: AH

Well ID: MW-9
 Well Diameter: 214 in.
 Total Depth: 9.97 ft.
 Depth to Water: 5.72 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.57
 $4.25 \times VF .17 = 0.72$ x3 case volume = Estimated Purge Volume: 2.16 gal.

Purge Equipment:
 Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:
 Disposable Bailer: 2
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1100 Weather Conditions: Clear
 Sample Time/Date: 16-26-08 Water Color: DARK Odor: DN
 Approx. Flow Rate: _____ gpm. Sediment Description: Heavy
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6-11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (F)	D.O. (mg/L)	ORP (mV)
<u>1102</u>	<u>0.75</u>	<u>6.61</u>	<u>0.82</u>	<u>22.1</u>	_____	_____
<u>1104</u>	<u>1.5</u>	<u>6.71</u>	<u>0.80</u>	<u>22.1</u>	_____	_____
<u>1106</u>	<u>2.25</u>	<u>6.66</u>	<u>0.81</u>	<u>22.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: att

Well ID: MW-10
 Well Diameter: 8.14 in.
 Total Depth: 10.13 ft.
 Depth to Water: 3.80 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.33 xVF .17 = 1.07 x3 case volume = Estimated Purge Volume: 3.22 gal.
 Check if water column is less than 0.50 ft.

Purge Equipment:
 Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:
 Disposable Bailer: X
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1020 Weather Conditions: CLAG
 Sample Time/Date: 1045 6-26-08 Water Color: DARK Odor: Y / (N)
 Approx. Flow Rate: _____ gpm. Sediment Description: HEAVY
 Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1023</u>	<u>1.25</u>	<u>6.72</u>	<u>5.55</u>	<u>23.5</u>	_____	_____
<u>1027</u>	<u>2.25</u>	<u>6.74</u>	<u>5.55</u>	<u>23.5</u>	_____	_____
<u>1031</u>	<u>3.25</u>	<u>6.77</u>	<u>5.55</u>	<u>23.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: AA

Well ID: MW-11
 Well Diameter: 2 1/4 in.
 Total Depth: 10.01 ft.
 Depth to Water: 3.92 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.13
 $6.09 \times VF = 1.7 = 1.03 \times 3 \text{ case volume} = \text{Estimated Purge Volume: } 3.10 \text{ gal.}$

Purge Equipment:

Disposable Bailer: X
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:

Disposable Bailer: X
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1145
 Sample Time/Date: 1210 6-26-08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: Clear
 Water Color: DARK Odor: FIN
 Sediment Description: Heavy
 Volume: _____ gal. DTW @ Sampling: 5.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1143</u>	<u>1.25</u>	<u>6.64</u>	<u>11.30</u>	<u>22.7</u>	_____	_____
<u>1149</u>	<u>2.25</u>	<u>6.63</u>	<u>11.32</u>	<u>22.6</u>	_____	_____
<u>1151</u>	<u>3.25</u>	<u>6.63</u>	<u>11.36</u>	<u>22.6</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
					TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)
<u>MW-11</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: AH

Well ID: MW-12
 Well Diameter: 8/4 in.
 Total Depth: 9.85 ft.
 Depth to Water: 3.60 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 $6.25 \times VF .17 = 1.06$ x3 case volume = Estimated Purge Volume: 3.18 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.85

Purge Equipment:
 Disposable Bailer: ✓
 Stainless Steel Bailer: _____
 Stack Pump: _____
 Suction Pump: _____
 Grundfos: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Sampling Equipment:
 Disposable Bailer: ✓
 Pressure Bailer: _____
 Discrete Bailer: _____
 Peristaltic Pump: _____
 QED Bladder Pump: _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1235 Weather Conditions: Clear
 Sample Time/Date: 1300 6-26-08 Water Color: Dark Odor: Oil
 Approx. Flow Rate: _____ gpm. Sediment Description: Heavy
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1237</u>	<u>1.25</u>	<u>6.91</u>	<u>NR</u>	<u>22.8</u>	_____	_____
<u>1239</u>	<u>2.25</u>	<u>6.90</u>	<u>NR</u>	<u>23.1</u>	_____	_____
<u>1241</u>	<u>3.25</u>	<u>6.93</u>	<u>NR</u>	<u>22.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls-Royce Engine
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: SH

Well ID: MW-13
 Well Diameter: 214 in.
 Total Depth: 953 ft.
 Depth to Water: 257 ft.

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 396
 xVF 0.66 = 459 x3 case volume = Estimated Purge Volume: 14 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1013 Weather Conditions: Clear
 Sample Time/Date: 1230 6-26-08 Water Color: Clear Odor: Y/N
 Approx. Flow Rate: _____ gpm. Sediment Description: 17 ft
 Did well de-water? yes If yes, Time: 1022 Volume: 6 gal. DTW @ Sampling: 391

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm, µS)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1020</u>	<u>5</u>	<u>7.32</u>	<u>out of range</u>	<u>20.9</u>	_____	_____
_____	<u>10</u>	_____	_____	_____	_____	_____
_____	<u>14</u>	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-13</u>	<u>7 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEXMTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls-Royce Engine
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-07 (inclusive)
 Sampler: 5 FT

Well ID: MW-14
 Well Diameter: 2 1/4 in.
 Total Depth: 10.00 ft.
 Depth to Water: 2.62 ft.
7.38 x VF = 1.25

Date Monitored: 6-26-07

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.10

Purge Equipment:

- Disposable Bailer X
- Stainless Steel Bailer _____
- Stack Pump _____
- Suction Pump _____
- Grundfos _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Sampling Equipment:

- Disposable Bailer X
- Pressure Bailer _____
- Discrete Bailer _____
- Peristaltic Pump _____
- QED Bladder Pump _____
- Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____
Product Transferred to:	_____

Start Time (purge): 1114
 Sample Time/Date: 1140 6-26-07
 Approx. Flow Rate: _____ gpm.
 Did well de-water? no If yes, Time: _____

Weather Conditions: clear
 Water Color: gray Odor: Y / N
 Sediment Description: heavy
 Volume: _____ gal. DTW @ Sampling: 3.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
<u>1119</u>	<u>1.5</u>	<u>7.43</u>	<u>OUT of range</u>	<u>22.3</u>	_____	_____
<u>1123</u>	<u>3.0</u>	<u>7.46</u>	<u>✓</u>	<u>21.9</u>	_____	_____
<u>1126</u>	<u>4.0</u>	<u>7.49</u>	<u>✓</u>	<u>21.8</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-14</u>	<u>7</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEXMTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls-Royce Engine
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: SH

Well ID: MW-15
 Well Diameter: 2 1/4 in.
 Total Depth: 495 ft.
 Depth to Water: 481 ft.
5.14 xVF 17 = 0.88

Date Monitored: 6-26-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.87

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1037
 Sample Time/Date: 1103 16-26-08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: Clear
 Water Color: Tan Odor: Y/N
 Sediment Description: None
 Volume: _____ gal. DTW @ Sampling: 5.32

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm · µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1041</u>	<u>1</u>	<u>6.93</u>	<u>out of range</u>	<u>20.9</u>		
<u>1046</u>	<u>2</u>	<u>6.91</u>	<u>↓</u>	<u>20.7</u>		
<u>1051</u>	<u>3</u>	<u>6.90</u>		<u>20.6</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-15</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEXMTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: SH

Well ID: MW-17
 Well Diameter: 2 1/4 in.
 Total Depth: 9.80 ft.
 Depth to Water: ft.

Date Monitored: 6/26/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

xVF = x3 case volume = Estimated Purge Volume: gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:

Purge Equipment:

Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:

Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started: (2400 hrs)
 Time Completed: (2400 hrs)
 Depth to Product: ft
 Depth to Water: ft
 Hydrocarbon Thickness: ft
 Visual Confirmation/Description:
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: gal
 Amt Removed from Well: gal
 Water Removed:
 Product Transferred to:

Start Time (purge):
 Sample Time/Date: /
 Approx. Flow Rate: gpm.
 Did well de-water? If yes, Time:

Weather Conditions:
 Water Color: Odor: Y / N
 Sediment Description:
 Volume: gal. DTW @ Sampling:

Time (2400 hr)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: NOT able to access Ben Dave Gold Benz

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6-26-08 (inclusive)
 Sampler: SH

Well ID: MW-18
 Well Diameter: 2 1/4 in.
 Total Depth: 922 ft.
 Depth to Water: 411 ft.
5.81 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Date Monitored: 6-26-08

Volume	3/4" = 0.02	1" = 0.04	2" = 0.17	3" = 0.38
Factor (VF)	4" = 0.66	5" = 1.02	6" = 1.50	12" = 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: 1241 (2400 hrs)
 Time Completed: 1300 (2400 hrs)
 Depth to Product: 2.97 ft
 Depth to Water: 411 ft
 Hydrocarbon Thickness: 1.14 ft
 Visual Confirmation/Description:
Black, thick, oily
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: 16 gal
 Water Removed: 12 gallon
 Product Transferred to: Dam

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: / Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x vga vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: SPH

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/02 (inclusive)
 Sampler: _____

Well ID: NPORDMW-3
 Well Diameter: 2 1/4 in.
 Total Depth: 16.38 ft.
 Depth to Water: _____ ft.

Date Monitored: 6/26/02

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

_____ xVF = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____
 Sample Time/Date: _____ / _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions: _____
 Water Color: _____ Odor: Y / N
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
NPORDMW-	x voc vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: NOT able to access per Dave Goldberg

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 6/26/08 (inclusive)
 Sampler: _____

Well ID: NPORDMW-^{c/}
 Well Diameter: 214 in.
 Total Depth: 18.23 ft.
 Depth to Water: _____ ft.

Date Monitored: _____

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

_____ xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): _____ Weather Conditions: _____
 Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N
 Approx. Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
NPORDMW-	x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: NOT able to access per Dave Gold Berg

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

WELL CONDITION STATUS SHEET

Client/Facility #: Rolls-Royce Engine Test Facility
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job # 25-948218.1
 Event Date: 7/3/07
 Sampler: SD

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
MW-17	OK							~	~	8" MORRIS	~
Non Pol MW-4	OK	N/A			OK			~	~	stone Pipe	~
MW-8	OK							~	~	8" MORRIS	~
Non Pol MW-3	OK							~	~	10" MORRIS	~

Comments _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 7/3/08 (inclusive)
 Sampler: JH

Well ID: MW-8
 Well Diameter: (2) 4 in.
 Total Depth: 9.79 ft.
 Depth to Water: 4.49 ft.
5.30 xVF .17 = .90

Date Monitored: 7/3/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.38
 Estimated Purge Volume: 2.70 gal.

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1140 Weather Conditions: clean
 Sample Time/Date: 1220 7/3/08 Water Color: cloudy Odor: GIN
 Approx. Flow Rate: _____ gpm. Sediment Description: Heavy
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>1143</u>	<u>.75</u>	<u>7.51</u>	<u>2874</u>	<u>23.2</u>	_____	_____
<u>1158</u>	<u>1.5</u>	<u>7.37</u>	<u>2829</u>	<u>22.7</u>	_____	_____
<u>1200</u>	<u>2.75</u>	<u>7.20</u>	<u>2853</u>	<u>22.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: 12.5 of Force to the N-NNW

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 7/3/08 (inclusive)
 Sampler: SH

Well ID: MW-17
 Well Diameter: 2 1/4 in.
 Total Depth: 9.80 ft.
 Depth to Water: 1.98 ft.
7.82 x VF .17 = 1.32

Date Monitored: 7/3/08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.54
 Estimated Purge Volume: 3.98 gal.

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Water Removed:	_____ gal
Product Transferred to:	_____

Start Time (purge): 0855
 Sample Time/Date: 0950 7/3/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? / If yes, Time: _____

Weather Conditions: Clear
 Water Color: Clear Odor: Y / 10
 Sediment Description: 1.5 DW
 Volume: _____ gal. DTW @ Sampling: 3.54

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm) (µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0900</u>	<u>1.5</u>	<u>7.61</u>	<u>Out of Range</u>	<u>23.6</u>	_____	_____
<u>0904</u>	<u>3.0</u>	<u>7.53</u>	<u>↓</u>	<u>22.9</u>	_____	_____
<u>0909</u>	<u>4.0</u>	<u>7.36</u>	<u>↓</u>	<u>22.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-17</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/s(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: slow Recovery
Water Reacted with HCL in VOA's - Bad HCL out HCL - samples non-pressured
now.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test Job Number: 25-948218.1
 Site Address: 6701 Old Earhart Road Event Date: 7/3/08 (inclusive)
 City: Oakland, CA Sampler: SH

Well ID: NPORDMW-3 Date Monitored: 7/3/08
 Well Diameter: 2 1/4 in. Volume 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38
 Total Depth: 16.38 ft. Factor (VF) 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80

Depth to Water: 3.96 ft. Check if water column is less than 0.50 ft.
12.42 xVF .66 = 8.19 x3 case volume = Estimated Purge Volume: 24.59 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.44

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1230 Weather Conditions: clean
 Sample Time/Date: 1310 17/3/08 Water Color: clear Odor: Y/N
 Approx. Flow Rate: 1.3 gpm. Sediment Description: 1.5 ml
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.30

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1238</u>	<u>8</u>	<u>7.82</u>	<u>out of range</u>	<u>23.6</u>		
<u>1246</u>	<u>16</u>	<u>7.54</u>	<u>↓</u>	<u>23.2</u>		
<u>1254</u>	<u>24</u>	<u>7.30</u>		<u>23.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>NPORDMW-3</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: (2) Poly Tubing in well - (1) 1/2" with check valve on it.

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 7/3/08 (inclusive)
 Sampler: JH

Well ID: NPORDMW-4

Date Monitored: 7/3/08

Well Diameter: (2) 14 in.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Total Depth: 18.23 ft.

Depth to Water: 6.26 ft.

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.65

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description: _____
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1040
 Sample Time/Date: 1110 7/3/08
 Approx. Flow Rate: _____ gpm.
 Did well de-water? NO If yes, Time: _____

Weather Conditions: clean
 Water Color: clean Odor: Y10
 Sediment Description: light
 Volume: _____ gal. DTW @ Sampling: 8.34

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1045</u>	<u>2</u>	<u>7.37</u>	<u>OUT OF RANGE</u>	<u>23.2</u>		
<u>1050</u>	<u>4</u>	<u>7.26</u>	<u>↓</u>	<u>23.1</u>		
<u>1055</u>	<u>6</u>	<u>7.11</u>		<u>23.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
NPORDMW-	<u>4</u> x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: (2) - Poly Tubing in well - (1) 1/2 tube with check valve on it. Water Reacted with HCL in VOAs - Washed out HCL - Samples now. Preserved now

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



Report Number : 63507

Date : 07/10/2008

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

Subject : 15 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,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 63507

Date : 07/10/2008

Subject : 15 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Case Narrative

Sample 'QA' was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

Approved By: _____

A handwritten signature in black ink, appearing to read "Joel Kiff", is written over a horizontal line. The signature is stylized and cursive.

Joel Kiff



Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

Sample : **QA**

Matrix : Water

Lab Number : 63507-01

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	91.3		% Recovery	EPA 8260B	07/02/2008

Approved By:

Joel Kiff



Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

Sample : **MW-1**

Matrix : Water

Lab Number : 63507-02

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/08/2008
TPH as Jet Fuel	51	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	117		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	81.7		% Recovery	M EPA 8015	07/08/2008

Approved By:

Joel Kiff

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Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

Sample : **MW-2**

Matrix : Water

Lab Number : 63507-03

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/03/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/03/2008
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	07/03/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/09/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	97	50	ug/L	M EPA 8015	07/09/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	07/09/2008
Octacosane (Silica Gel Surr)	99.3		% Recovery	M EPA 8015	07/09/2008

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Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

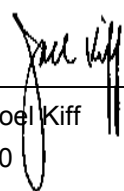
Sample : **MW-3**

Matrix : Water

Lab Number : 63507-04

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	1.7	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	0.93	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/08/2008
TPH as Jet Fuel	610	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	81.4		% Recovery	M EPA 8015	07/08/2008

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Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

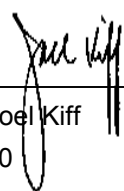
Sample : **MW-4**

Matrix : Water

Lab Number : 63507-05

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	1900	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	2300	50	ug/L	M EPA 8015	07/08/2008
TPH as Jet Fuel	2700	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	101		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	07/08/2008

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Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**

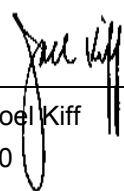
Sample : **MW-5**

Matrix : Water

Lab Number : 63507-06

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	3200	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	1400	50	ug/L	M EPA 8015	07/08/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	2000	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	111		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	07/08/2008

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Date : 07/10/2008

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

Project Number : **25-948218.1**

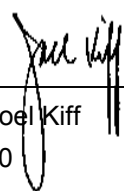
Sample : **MW-6**

Matrix : Water

Lab Number : 63507-07

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	91.7		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	9400	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	3200	50	ug/L	M EPA 8015	07/08/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	3200	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	76.9		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	99.6		% Recovery	M EPA 8015	07/08/2008

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

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Sample : **MW-7**

Matrix : Water

Lab Number : 63507-08

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/03/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	07/03/2008
4-Bromofluorobenzene (Surr)	116		% Recovery	EPA 8260B	07/03/2008
TPH as Motor Oil	10000	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	3300	50	ug/L	M EPA 8015	07/08/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	3300	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	70.9		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	126		% Recovery	M EPA 8015	07/08/2008

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Date : 07/10/2008

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

Project Number : **25-948218.1**


Sample : **MW-9**

Matrix : Water

Lab Number : 63507-09

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	1800	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	1600	50	ug/L	M EPA 8015	07/08/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	1800	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	97.1		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	07/08/2008

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Report Number : 63507

Date : 07/10/2008

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

Project Number : **25-948218.1**


Sample : **MW-10**

Matrix : Water

Lab Number : 63507-10

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	120	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	5.0	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	91.9		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	1000	100	ug/L	M EPA 8015	07/09/2008
TPH as Diesel (w/ Silica Gel)	1200	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	2000	50	ug/L	M EPA 8015	07/09/2008
Octacosane (Diesel Surrogate)	78.0		% Recovery	M EPA 8015	07/09/2008
Octacosane (Silica Gel Surr)	80.0		% Recovery	M EPA 8015	07/09/2008

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Date : 07/10/2008

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

Project Number : **25-948218.1**


Sample : **MW-11**

Matrix : Water

Lab Number : 63507-11

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/04/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/04/2008
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	07/04/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/04/2008
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	07/04/2008
TPH as Motor Oil	7300	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	2700	50	ug/L	M EPA 8015	07/08/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	3600	50	ug/L	M EPA 8015	07/08/2008
(Note: Lower boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	87.6		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	107		% Recovery	M EPA 8015	07/08/2008

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

Project Number : **25-948218.1**

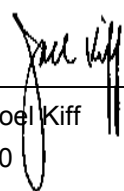
Sample : **MW-12**

Matrix : Water

Lab Number : 63507-12

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	93.2		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/08/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	07/08/2008
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	07/08/2008

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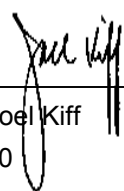
Sample : **MW-13**

Matrix : Water

Lab Number : 63507-13

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2.0	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	0.60	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	3.3	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	720	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	3.3	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	98.2		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	200	50	ug/L	M EPA 8015	07/08/2008
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel)					
TPH as Jet Fuel	4100	50	ug/L	M EPA 8015	07/08/2008
(Note: Lower boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	84.7		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	73.2		% Recovery	M EPA 8015	07/08/2008

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

Project Number : **25-948218.1**

Sample : **MW-14**

Matrix : Water

Lab Number : 63507-14

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	1.4	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	3.1	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	93.5		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	2700	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	570	50	ug/L	M EPA 8015	07/08/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	2000	50	ug/L	M EPA 8015	07/08/2008
(Note: Lower boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	92.1		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	93.0		% Recovery	M EPA 8015	07/08/2008

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

Project Number : **25-948218.1**

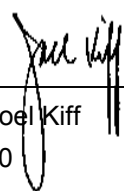
Sample : **MW-15**

Matrix : Water

Lab Number : 63507-15

Sample Date :06/26/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/02/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/02/2008
1,2-Dichloroethane-d4 (Surr)	109		% Recovery	EPA 8260B	07/02/2008
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/02/2008
4-Bromofluorobenzene (Surr)	95.0		% Recovery	EPA 8260B	07/02/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/08/2008
TPH as Jet Fuel	84	50	ug/L	M EPA 8015	07/08/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	95.5		% Recovery	M EPA 8015	07/08/2008

Approved By:  Joel Kiff

Report Number : 63507

Date : 07/10/2008

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 Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/07/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	07/08/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/08/2008
Octacosane (Diesel Surrogate)	118		%	M EPA 8015	07/08/2008
Octacosane (Silica Gel Surr)	89.2		%	M EPA 8015	07/07/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/09/2008
Octacosane (Diesel Surrogate)	105		%	M EPA 8015	07/09/2008
Octacosane (Silica Gel Surr)	107		%	M EPA 8015	07/09/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2008
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	07/01/2008
4-Bromofluorobenzene (Surr)	94.0		%	EPA 8260B	07/01/2008
Toluene - d8 (Surr)	102		%	EPA 8260B	07/01/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/03/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	07/03/2008
4-Bromofluorobenzene (Surr)	112		%	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	99.0		%	EPA 8260B	07/03/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/03/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	07/03/2008
4-Bromofluorobenzene (Surr)	112		%	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	99.9		%	EPA 8260B	07/03/2008

Approved By:  _____
 Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 63507

Date : 07/10/2008

QC Report : Method Blank Data

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

Project Number : **25-948218.1**

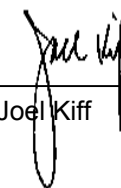
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Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/03/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/03/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	07/03/2008
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	07/03/2008
Toluene - d8 (Surr)	99.6		%	EPA 8260B	07/03/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Rolls-Royce Engine Test Facility**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 Recov. Limit	Relative Percent Diff. Limit
Benzene	63507-01	<0.50	39.9	39.5	41.0	40.8	ug/L	EPA 8260B	7/1/08	103	103	0.403	70-130	25
Methyl-t-butyl ether	63507-01	<0.50	39.8	39.4	41.2	36.7	ug/L	EPA 8260B	7/1/08	103	93.1	10.5	70-130	25
Toluene	63507-01	<0.50	39.3	38.9	39.0	38.4	ug/L	EPA 8260B	7/1/08	99.4	98.6	0.720	70-130	25
Benzene	63508-13	<0.50	40.1	40.1	38.6	37.8	ug/L	EPA 8260B	7/3/08	96.1	94.1	2.10	70-130	25
Methyl-t-butyl ether	63508-13	0.59	40.1	40.1	40.4	40.0	ug/L	EPA 8260B	7/3/08	99.3	98.4	0.931	70-130	25
Toluene	63508-13	<0.50	39.5	39.5	38.5	39.1	ug/L	EPA 8260B	7/3/08	97.4	98.8	1.39	70-130	25
Benzene	63563-02	39	40.1	40.1	76.0	75.0	ug/L	EPA 8260B	7/3/08	92.4	89.8	2.91	70-130	25
Methyl-t-butyl ether	63563-02	19	40.1	40.1	60.5	59.9	ug/L	EPA 8260B	7/3/08	103	101	1.50	70-130	25
Toluene	63563-02	1.5	39.5	39.5	40.0	39.4	ug/L	EPA 8260B	7/3/08	97.3	96.0	1.36	70-130	25
Benzene	63563-04	<0.50	40.1	40.1	39.9	39.2	ug/L	EPA 8260B	7/3/08	99.4	97.6	1.84	70-130	25
Methyl-t-butyl ether	63563-04	0.99	40.1	40.1	37.6	37.6	ug/L	EPA 8260B	7/3/08	91.5	91.3	0.204	70-130	25
Toluene	63563-04	<0.50	39.5	39.5	39.7	39.0	ug/L	EPA 8260B	7/3/08	100	98.8	1.73	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1060	1050	ug/L	M EPA 8015	7/7/08	106	105	1.74	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1100	1060	ug/L	M EPA 8015	7/8/08	110	106	3.18	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	951	992	ug/L	M EPA 8015	7/9/08	95.1	99.2	4.16	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1050	1040	ug/L	M EPA 8015	7/9/08	105	104	0.586	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Laboratory Control Sample (LCS)Project Name : **Rolls-Royce Engine Test Facility**Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	7/1/08	103	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/1/08	93.8	70-130
Toluene	39.5	ug/L	EPA 8260B	7/1/08	98.8	70-130
Benzene	39.8	ug/L	EPA 8260B	7/3/08	93.8	70-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	7/3/08	102	70-130
Toluene	39.8	ug/L	EPA 8260B	7/3/08	97.4	70-130
Benzene	40.0	ug/L	EPA 8260B	7/3/08	94.1	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/3/08	97.0	70-130
Toluene	40.0	ug/L	EPA 8260B	7/3/08	98.0	70-130
Benzene	40.0	ug/L	EPA 8260B	7/3/08	98.0	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/3/08	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	7/3/08	100	70-130

KIFF ANALYTICAL, LLC

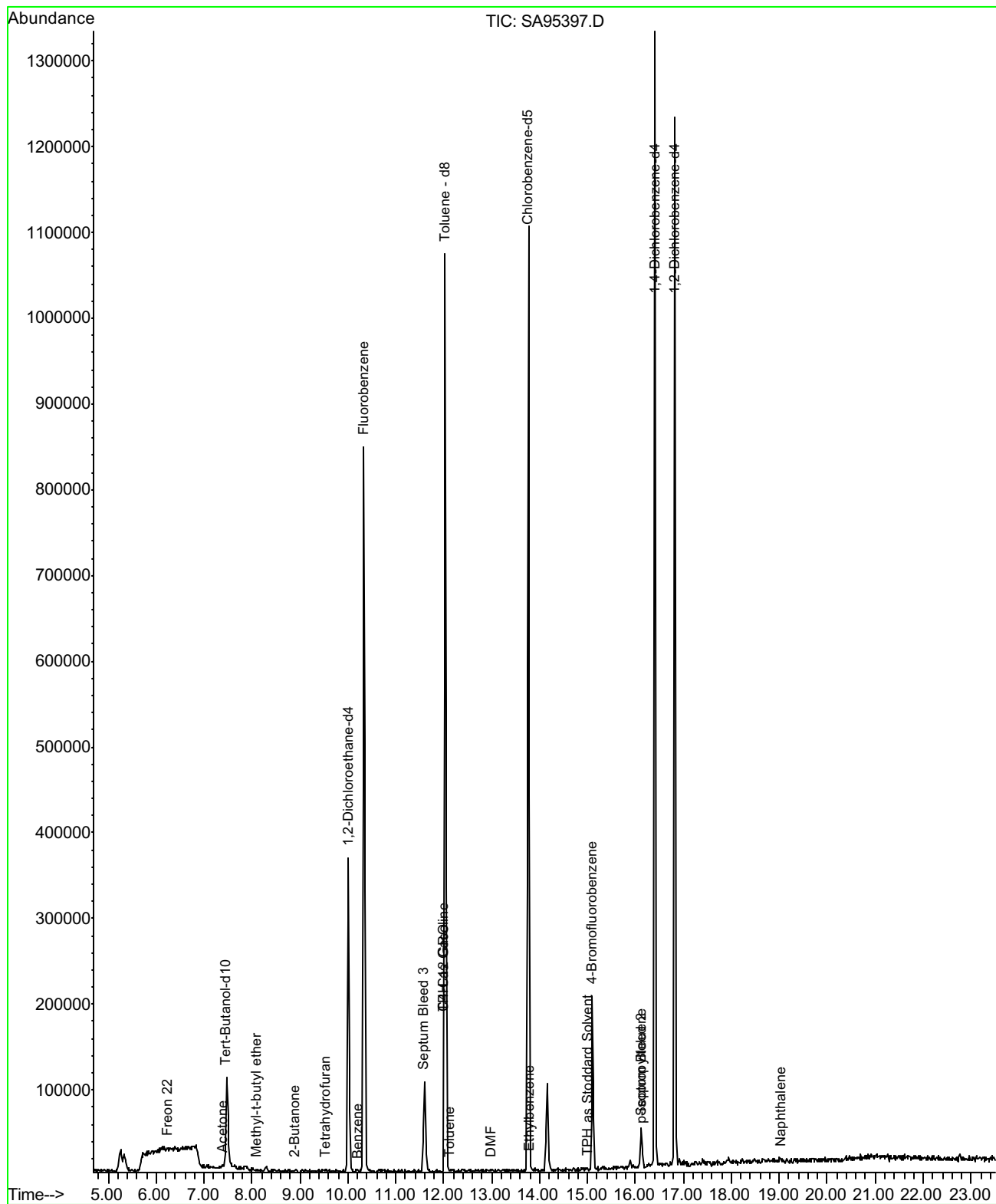
2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Approved By:

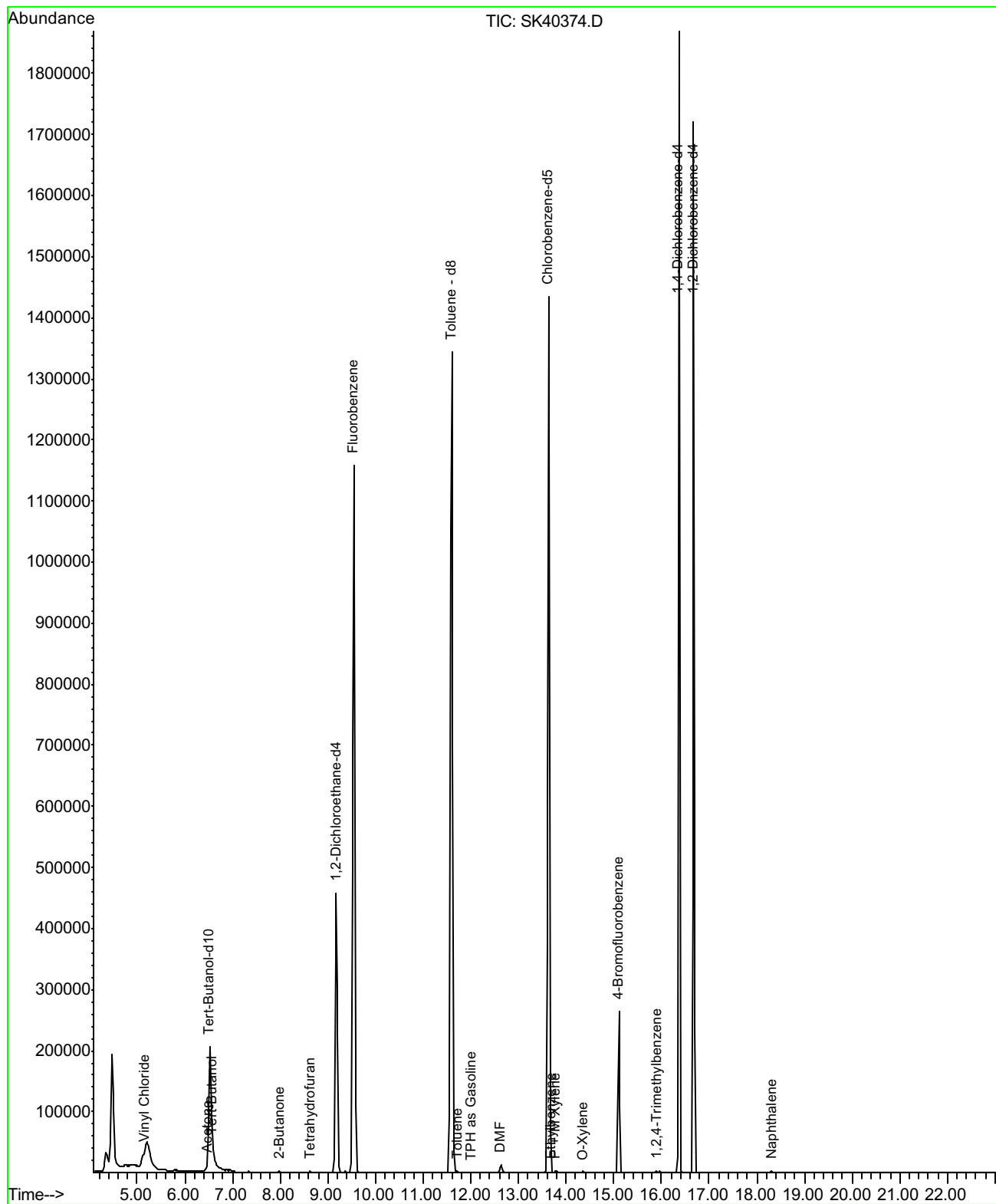


 Joel Kiff

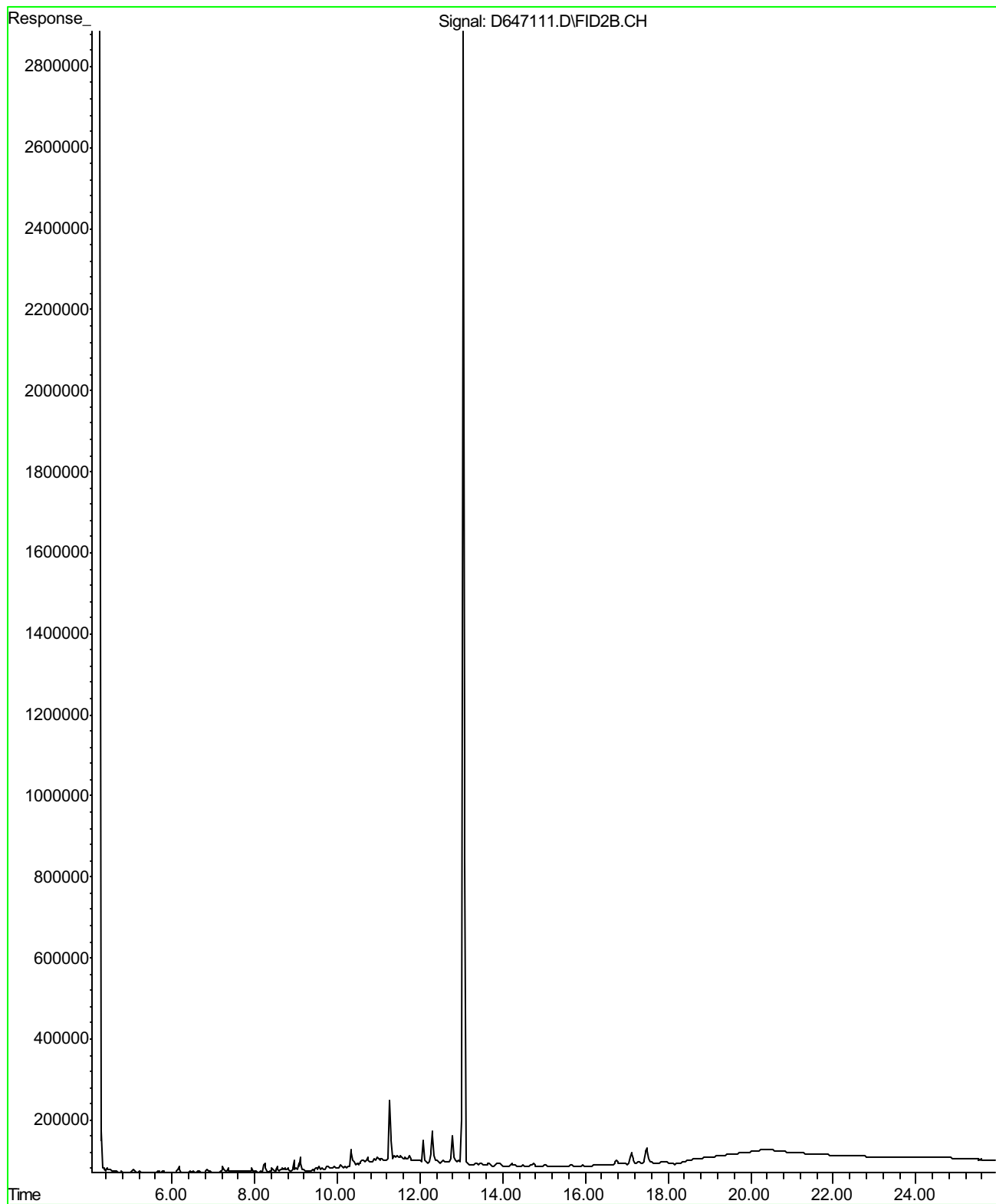
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Date Analyzed : 07/02/2008
Data File : SA95397
Analysis Method : EPA 8260B



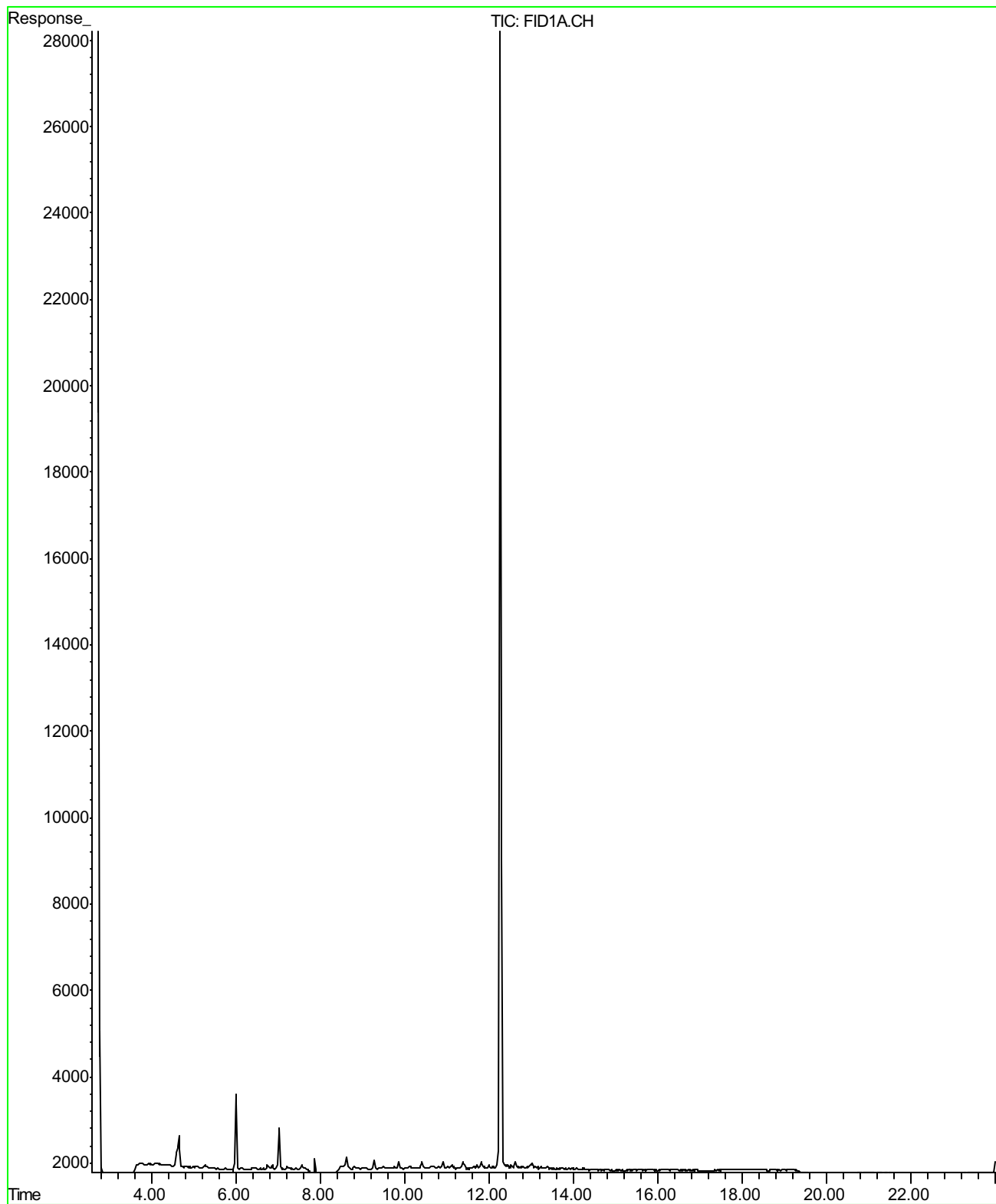
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Data File : SK40374
Analysis Method : EPA 8260B



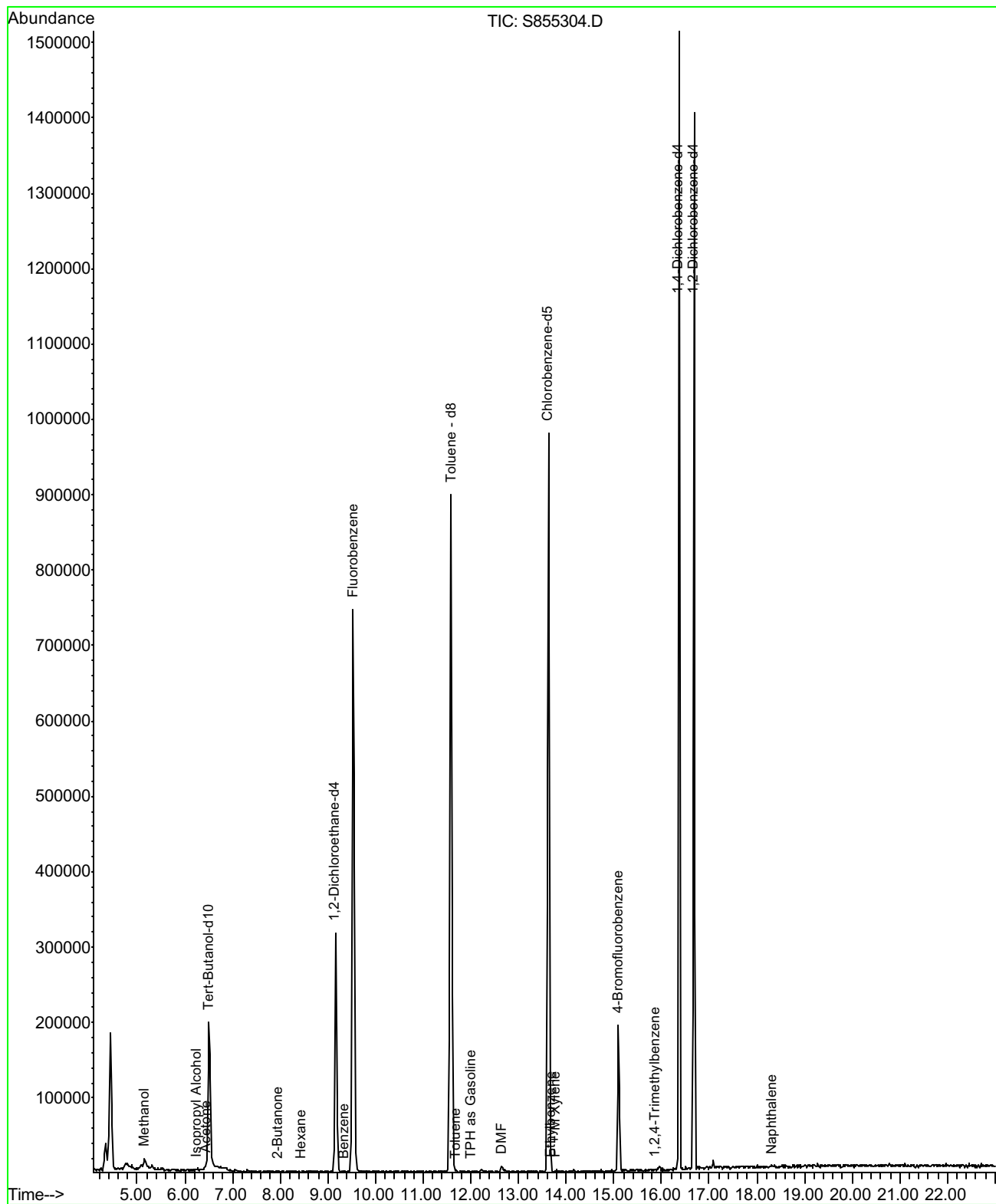
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Date Analyzed : 07/08/2008
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Analysis Method : M EPA 8015



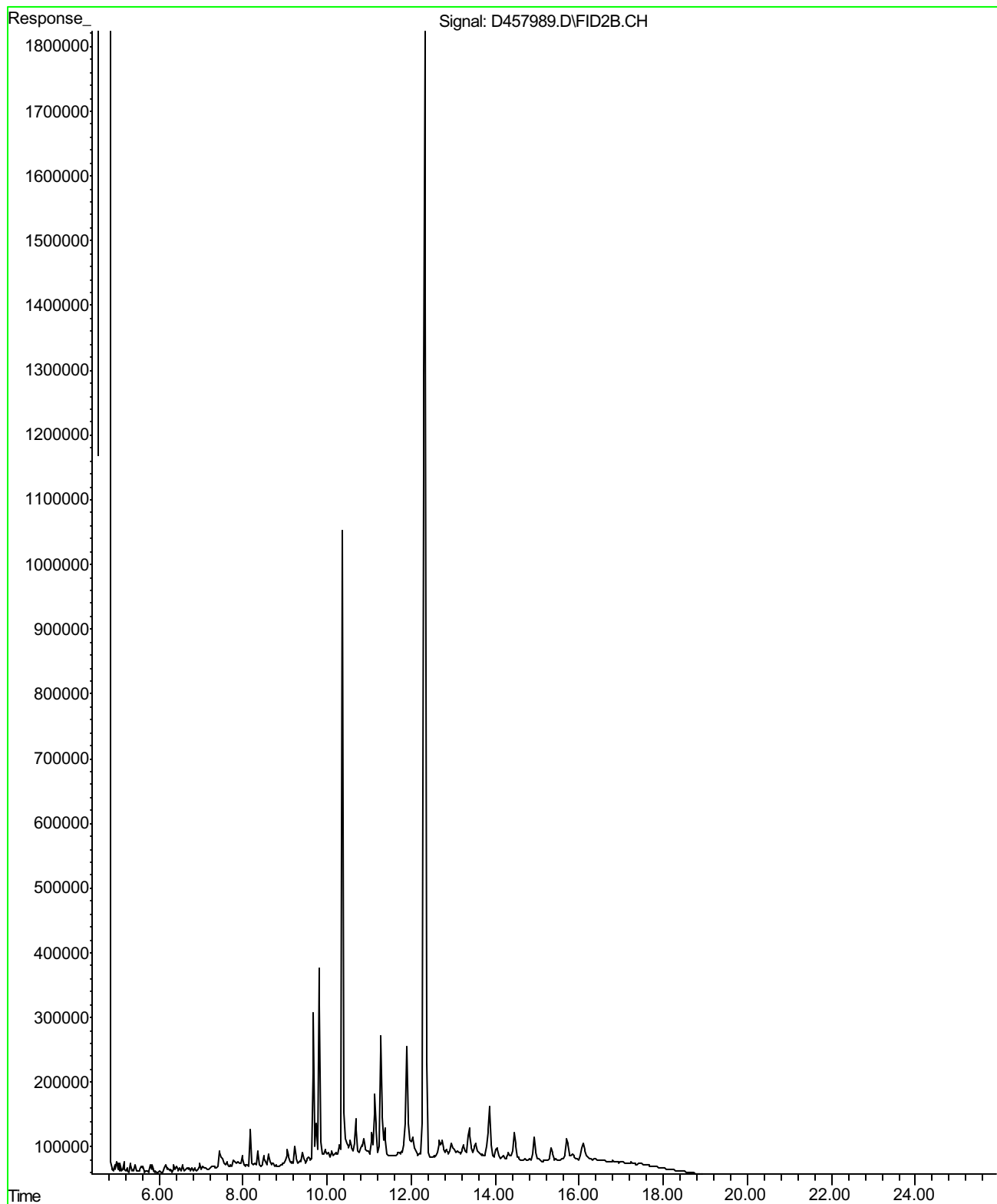
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Date Analyzed : 07/08/2008
Data File : D280990
Analysis Method : M EPA 8015



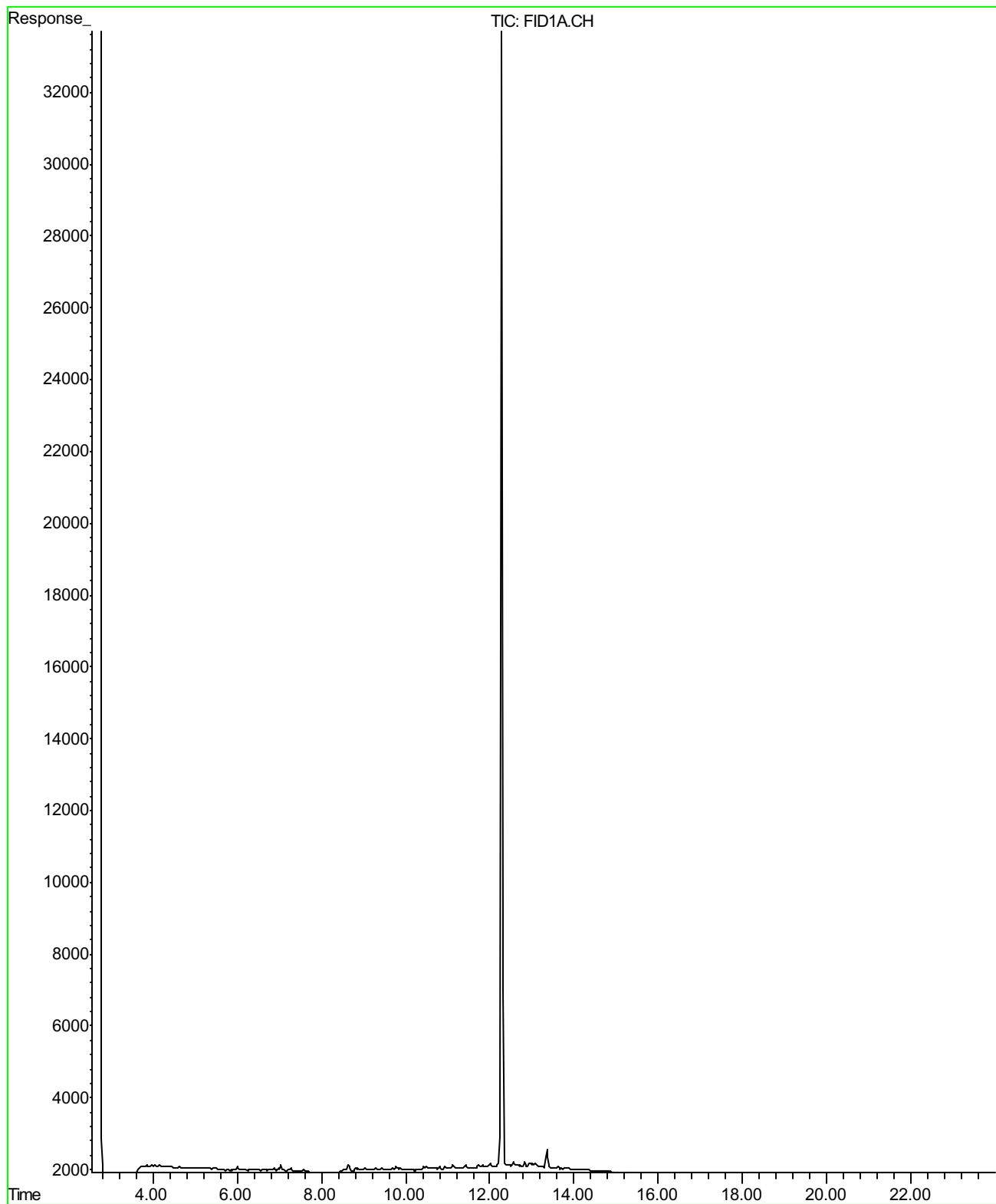
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Date Analyzed : 07/03/2008
Data File : S855304
Analysis Method : EPA 8260B



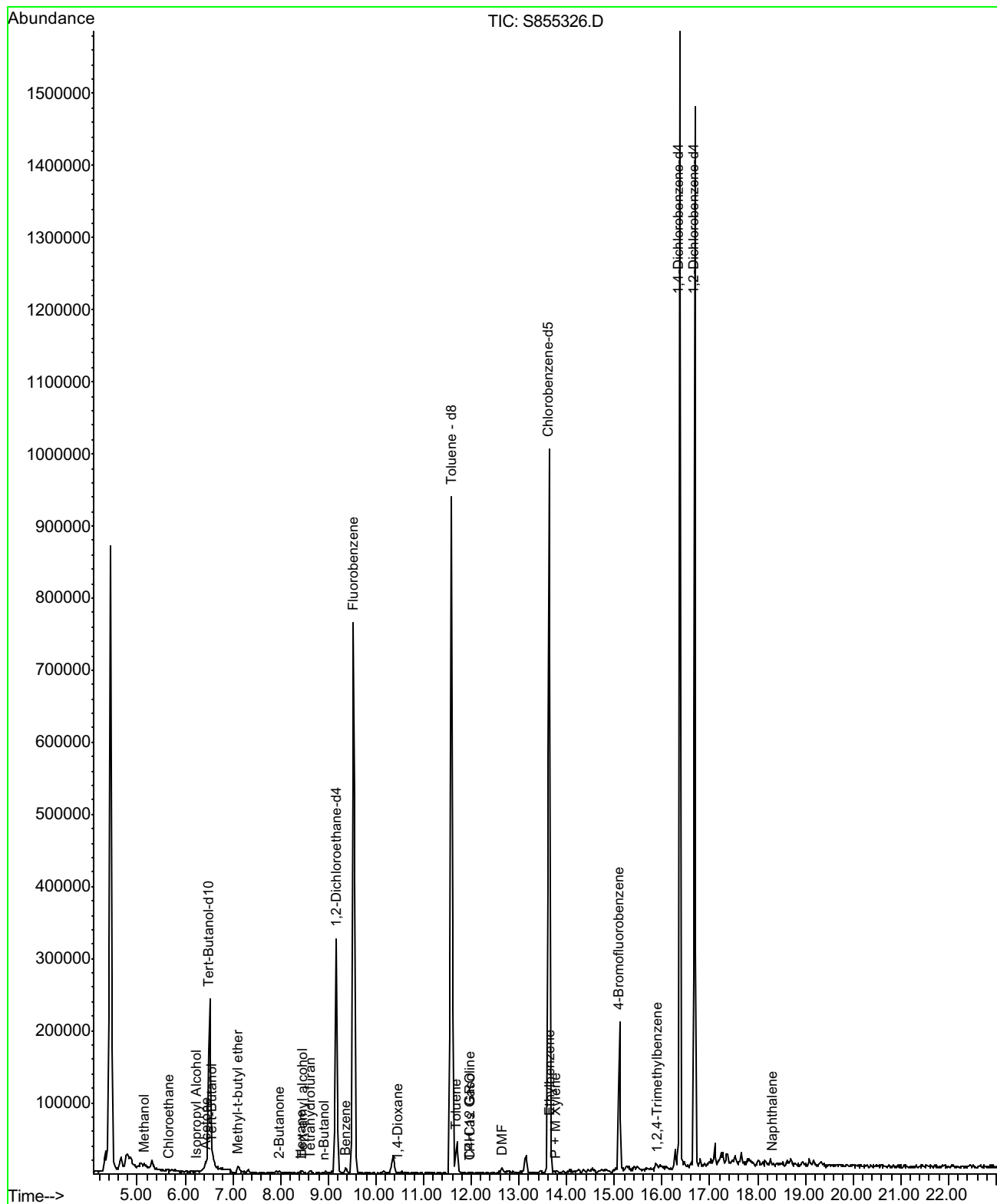
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Date Analyzed : 07/09/2008
Data File : D457989
Analysis Method : M EPA 8015



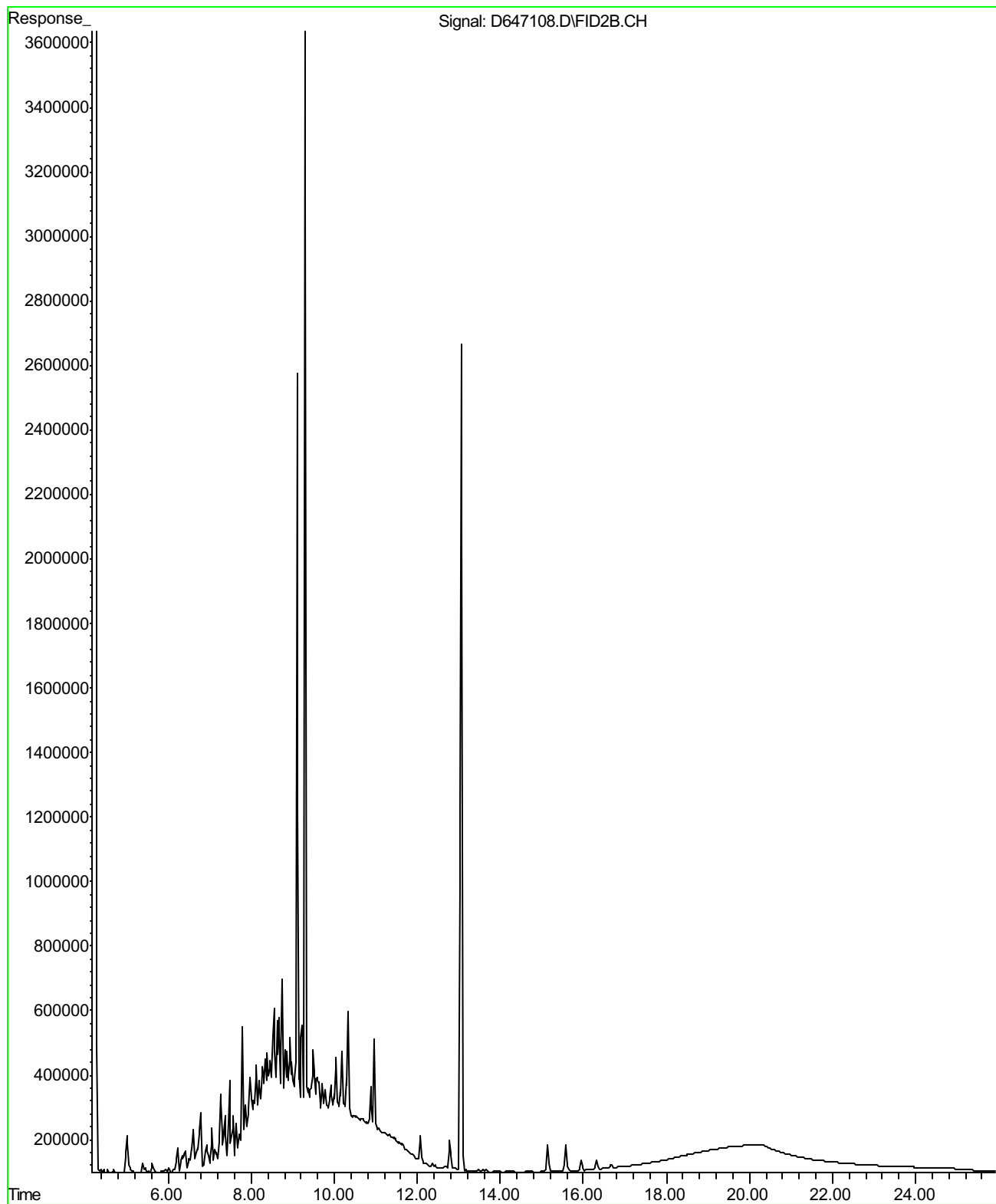
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Date Analyzed : 07/09/2008
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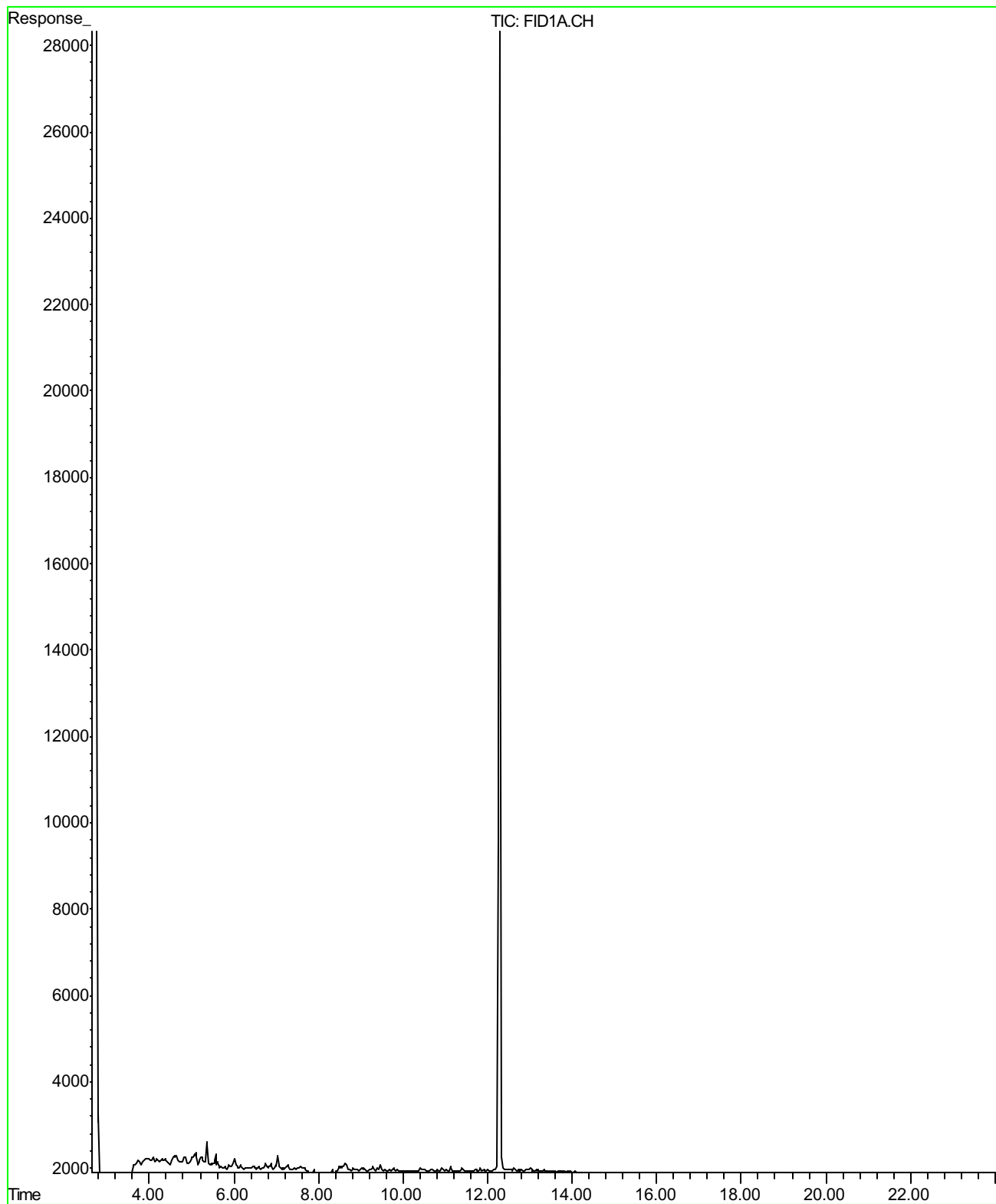
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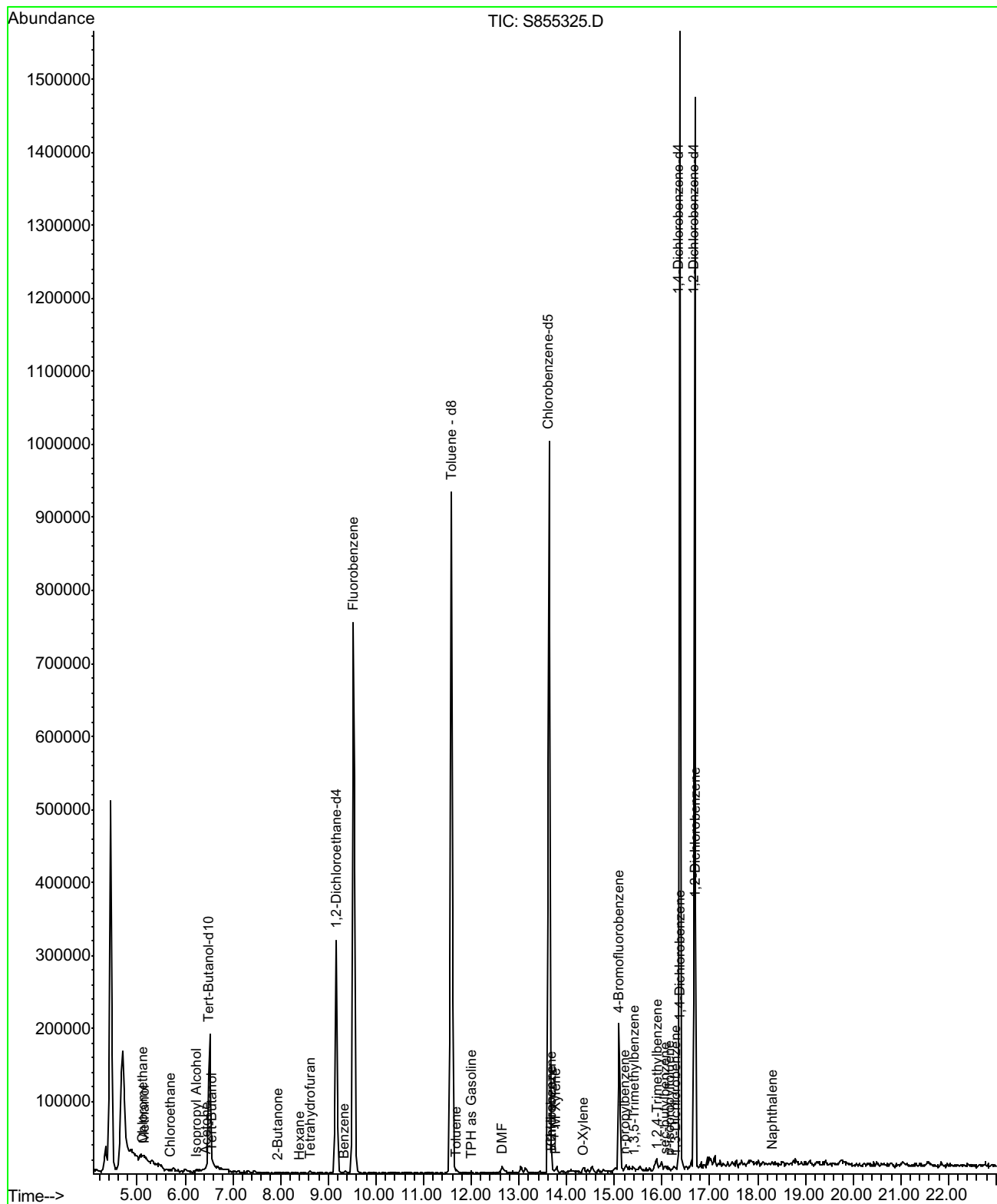
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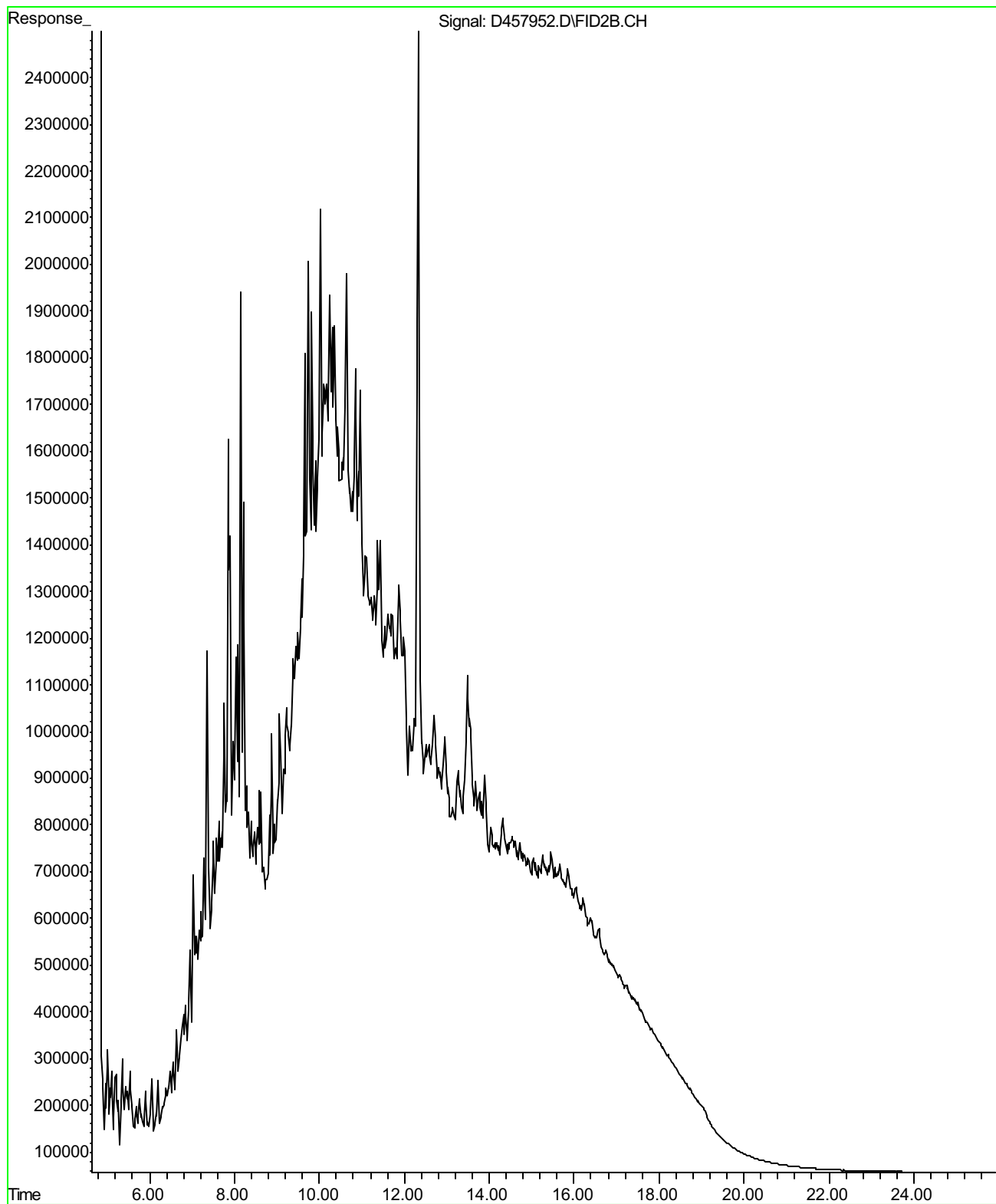
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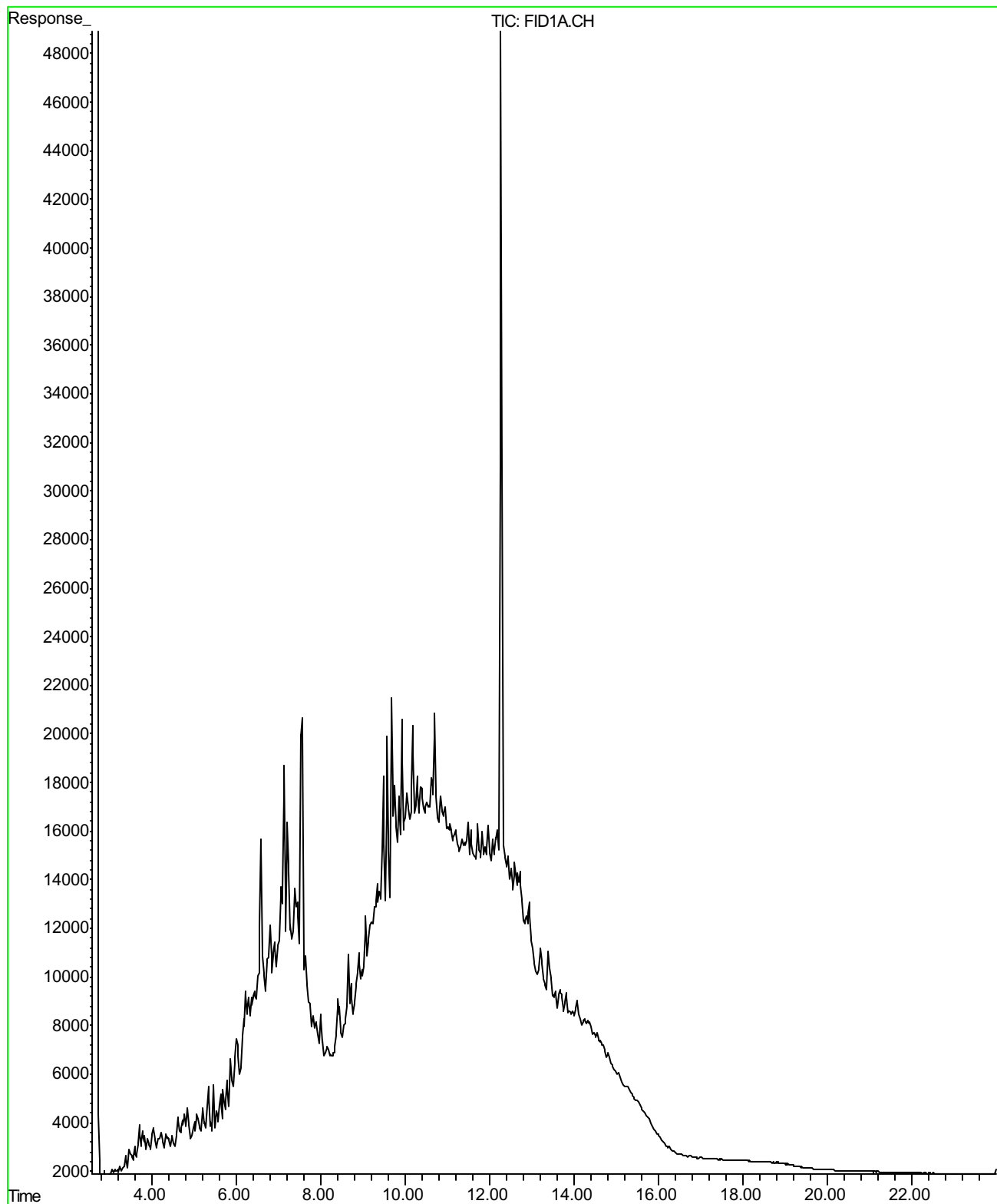
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Date Analyzed : 07/04/2008
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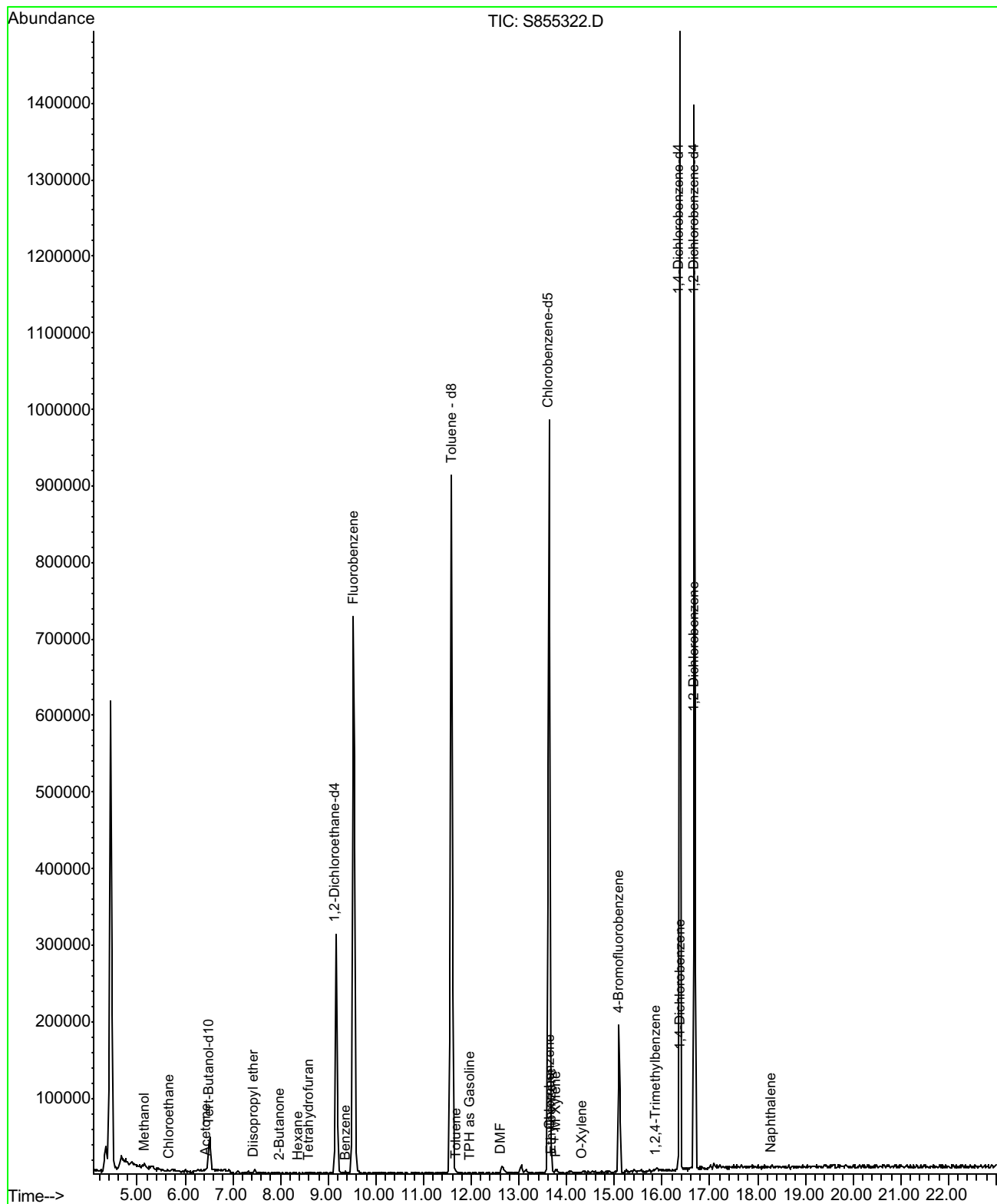
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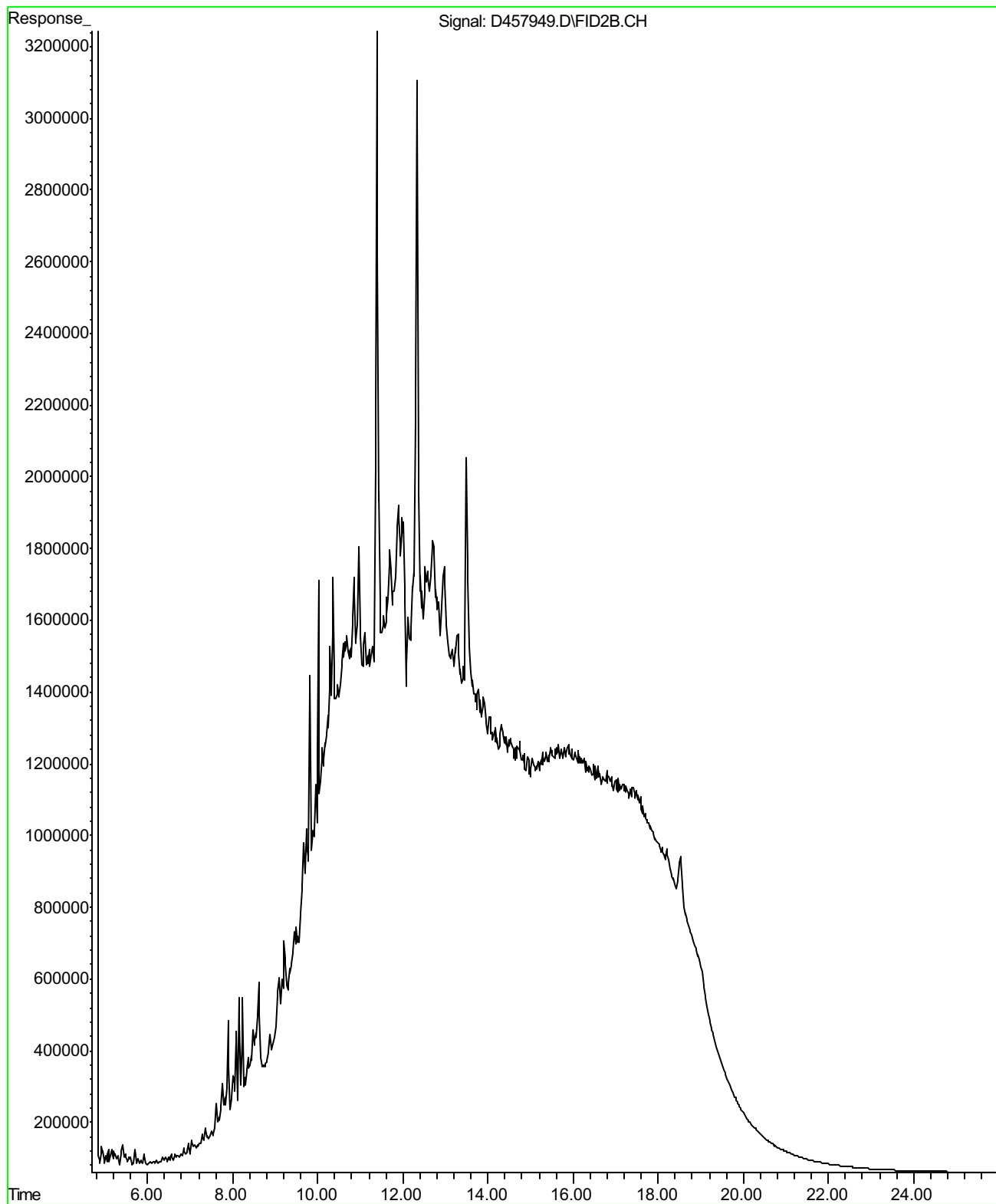
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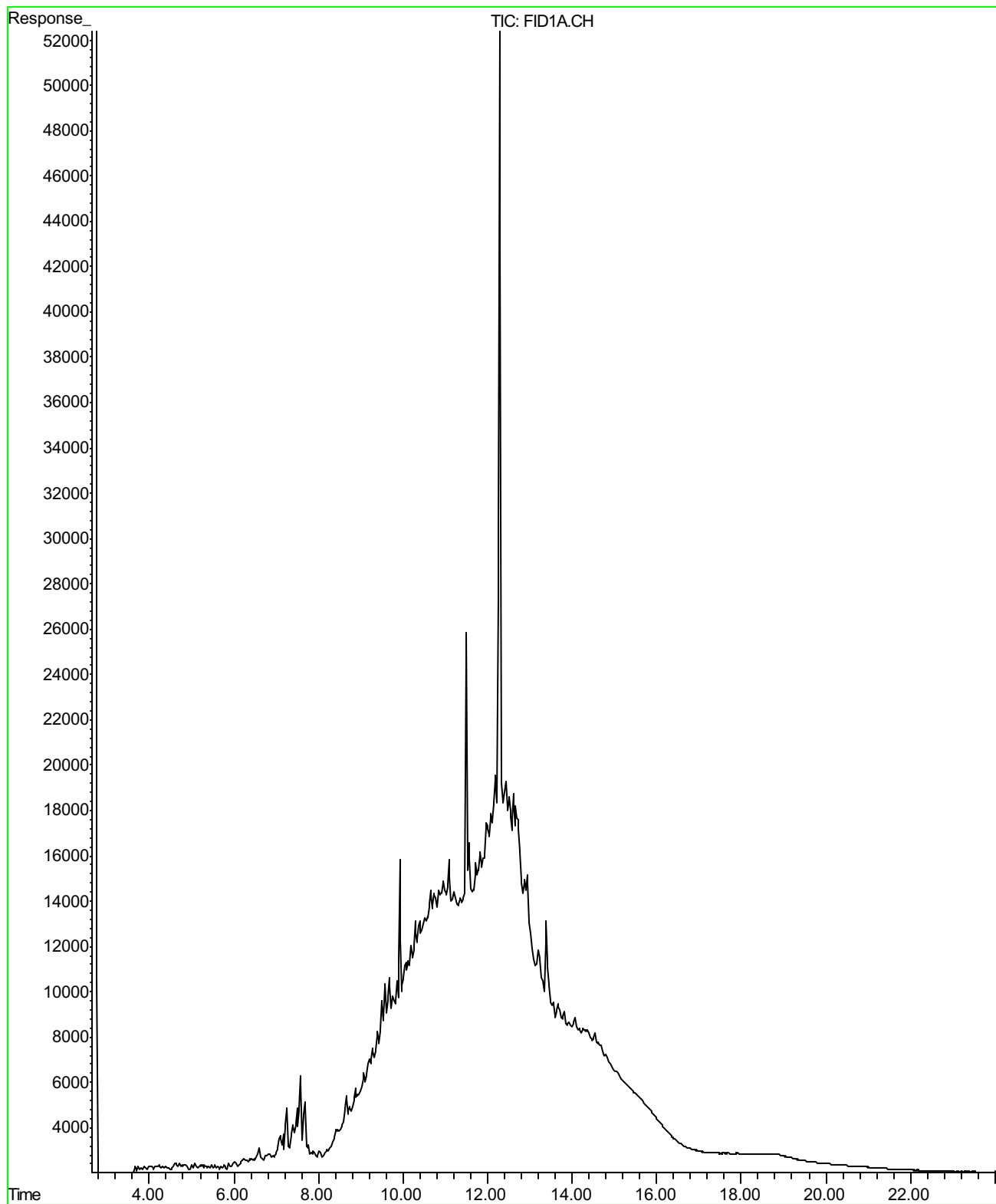
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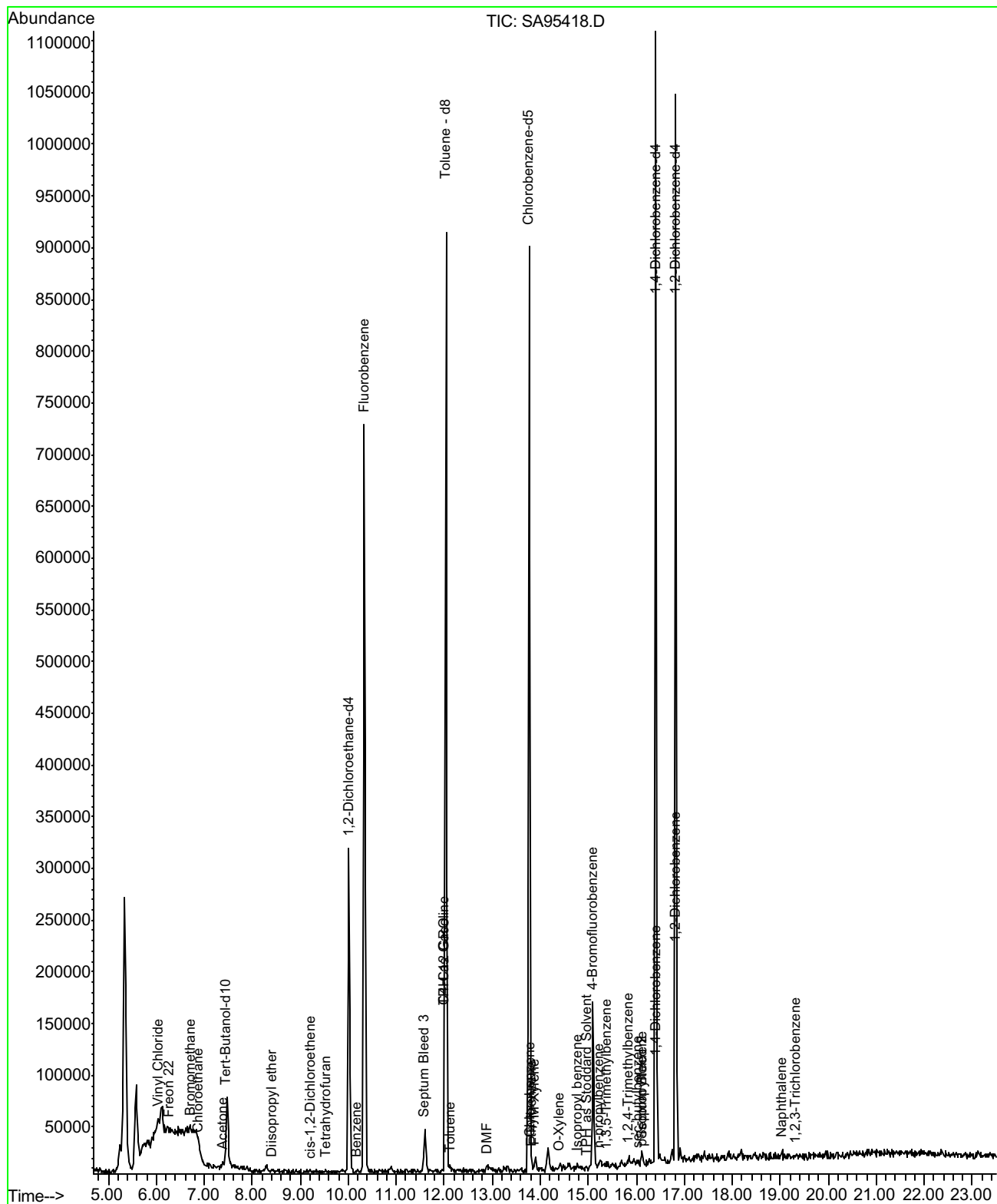
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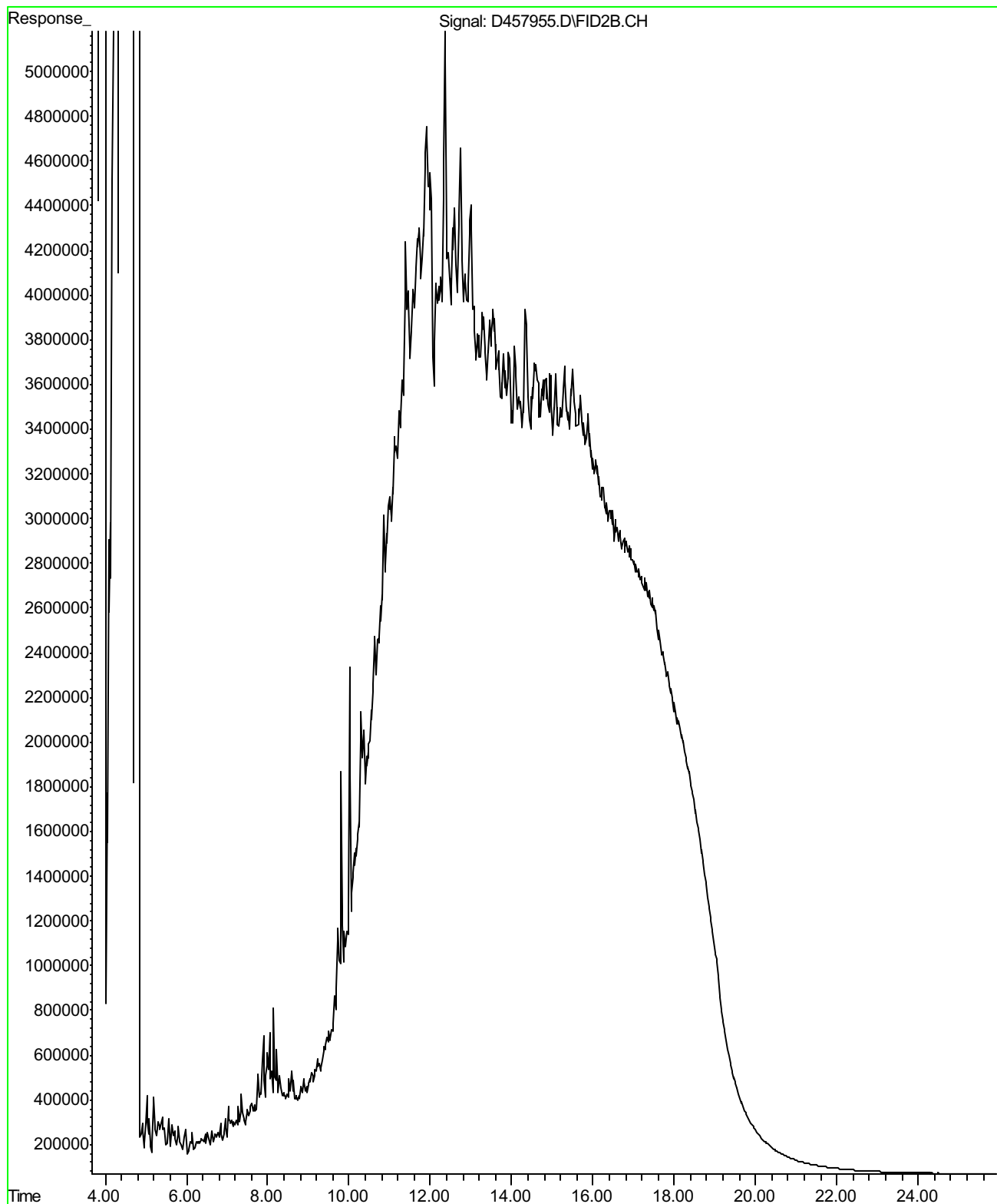
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Data File : D280993
Analysis Method : M EPA 8015



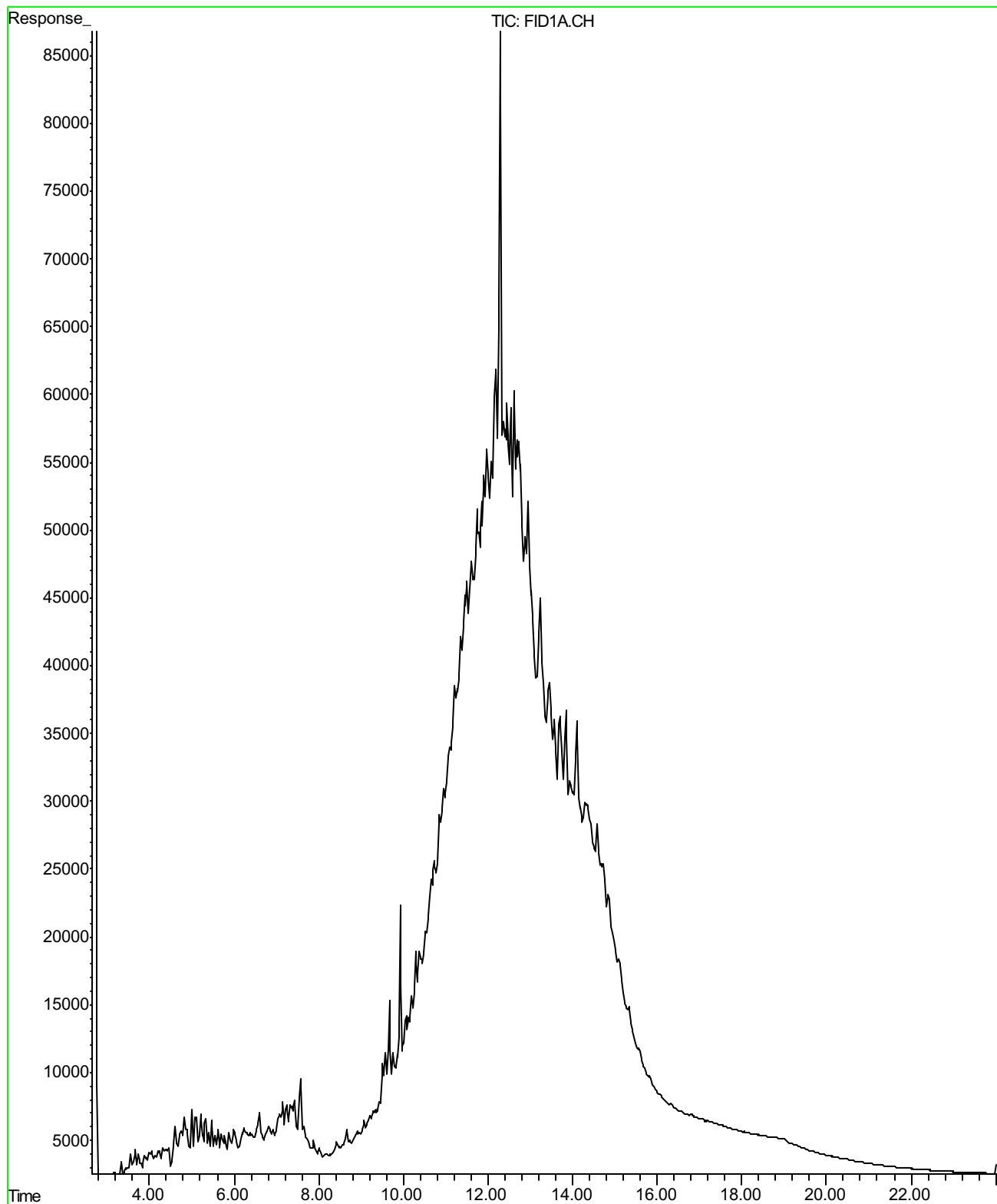
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Data File : SA95418
Analysis Method : EPA 8260B



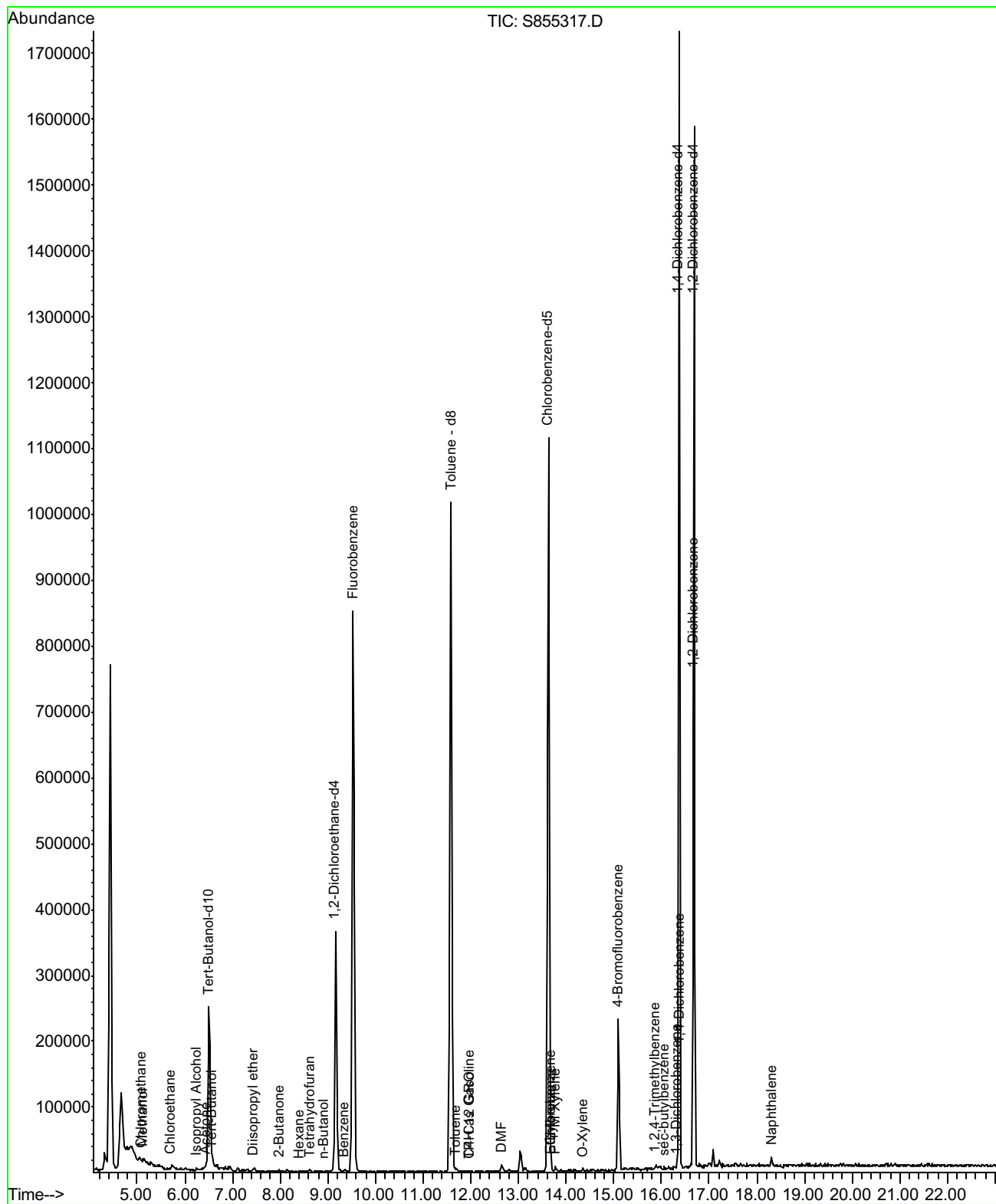
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Analysis Method : M EPA 8015



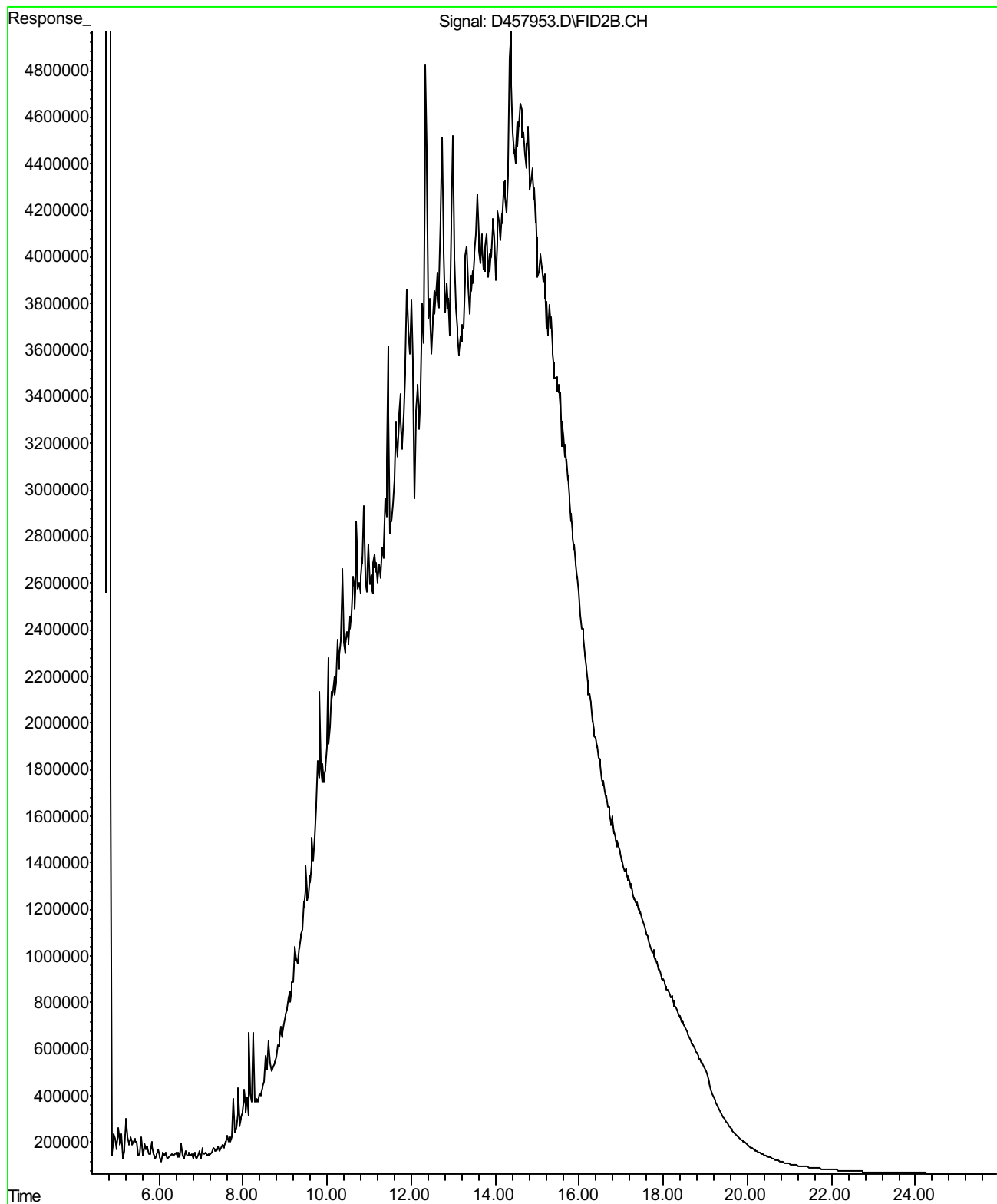
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Analysis Method : M EPA 8015



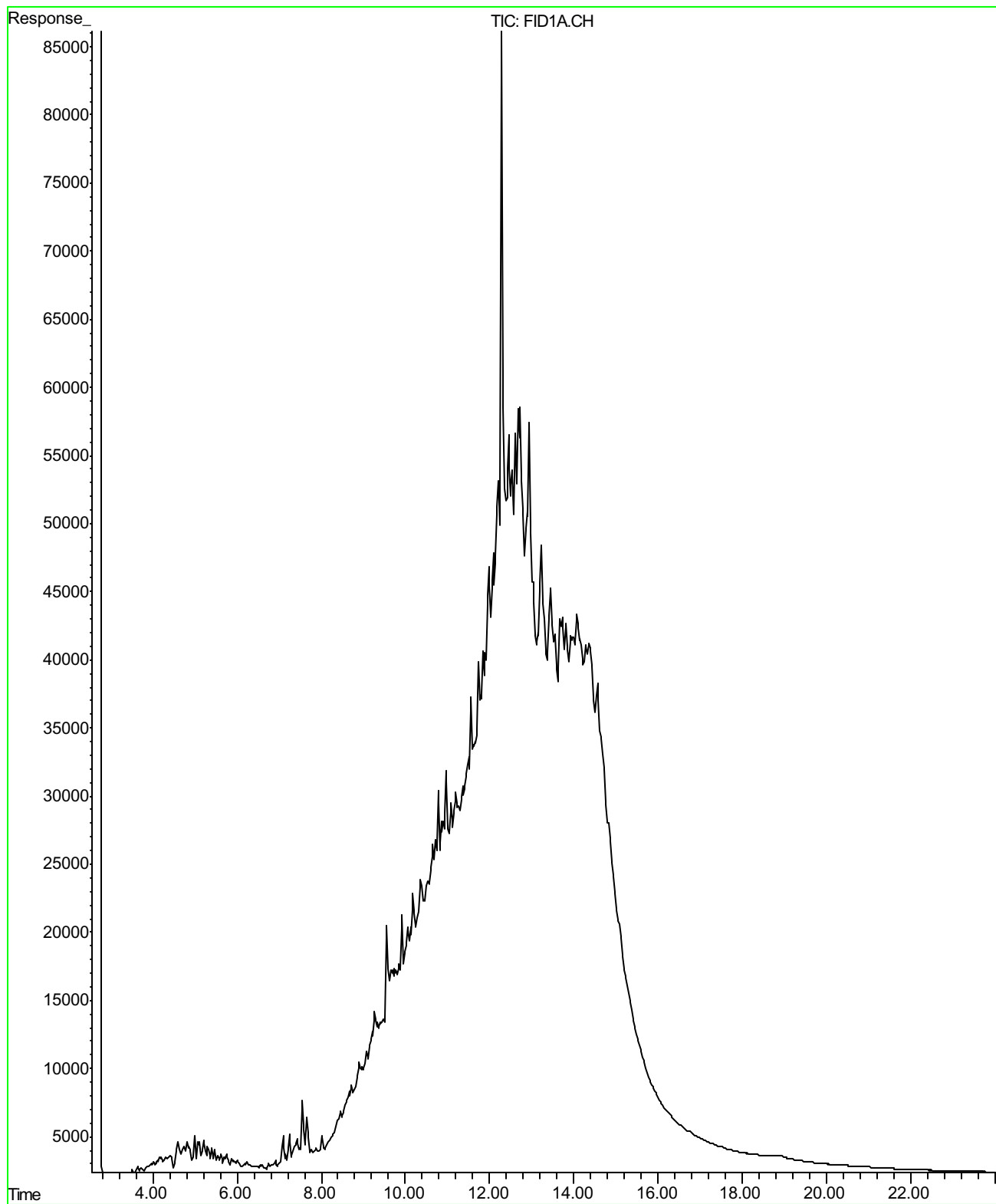
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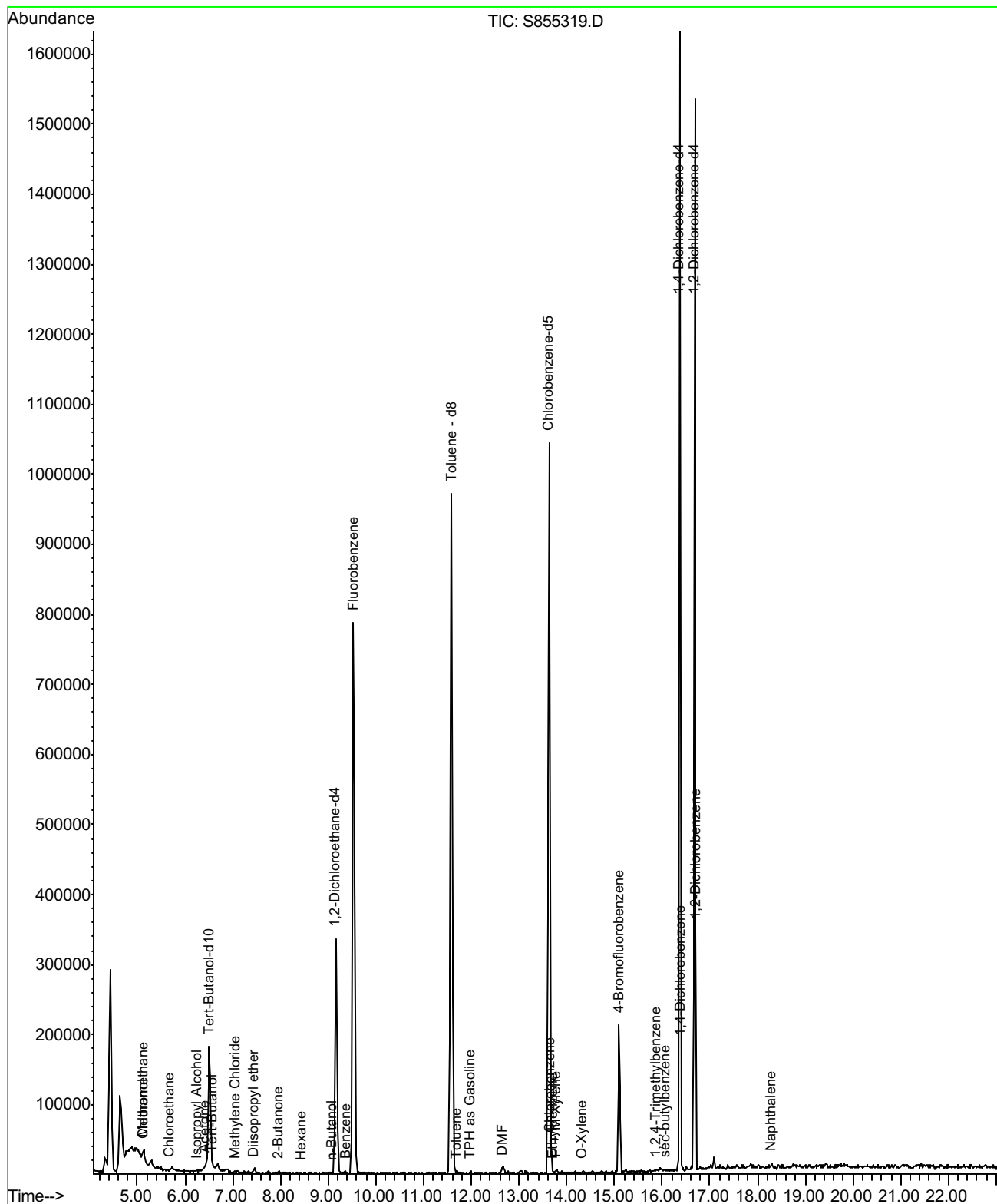
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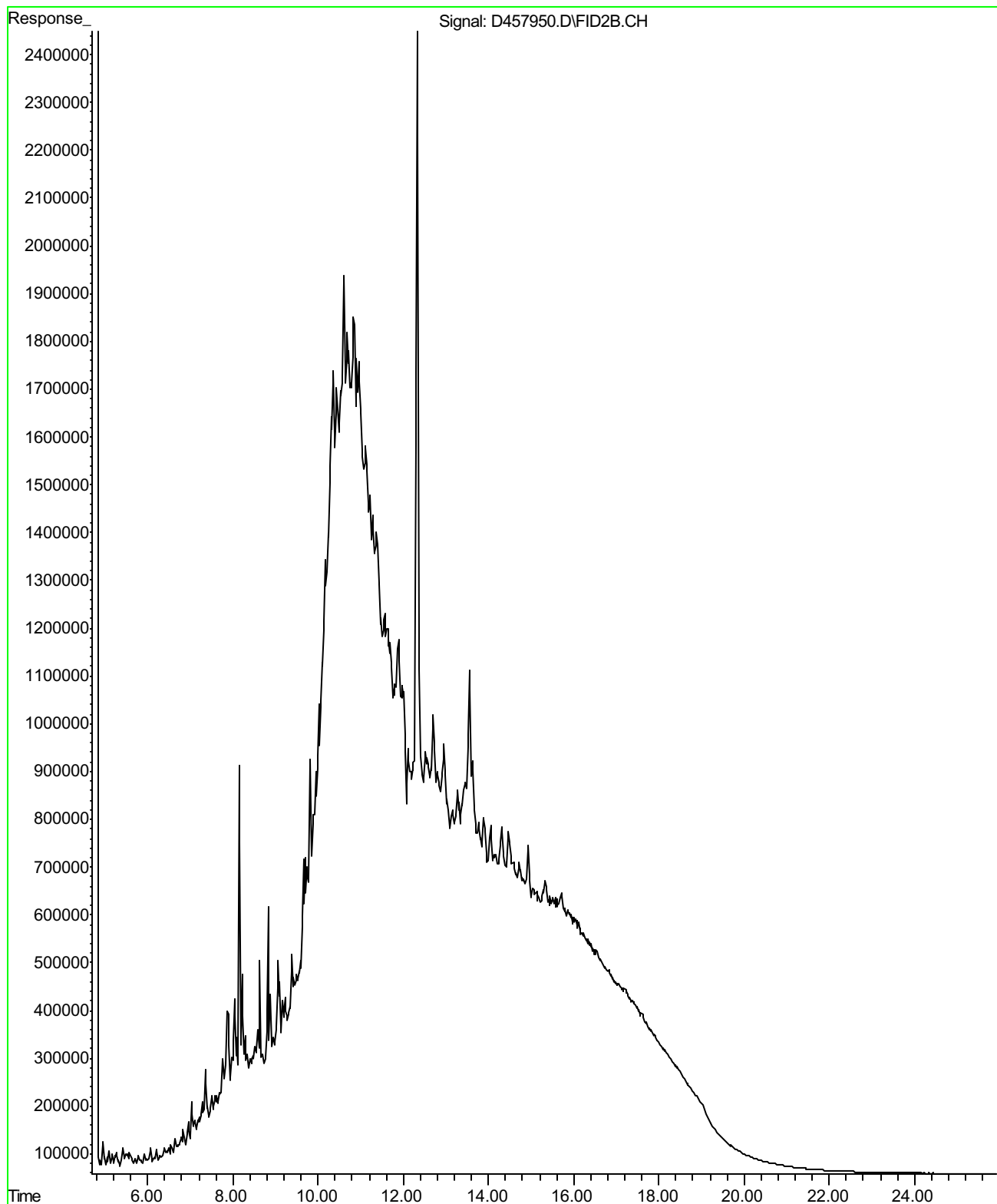
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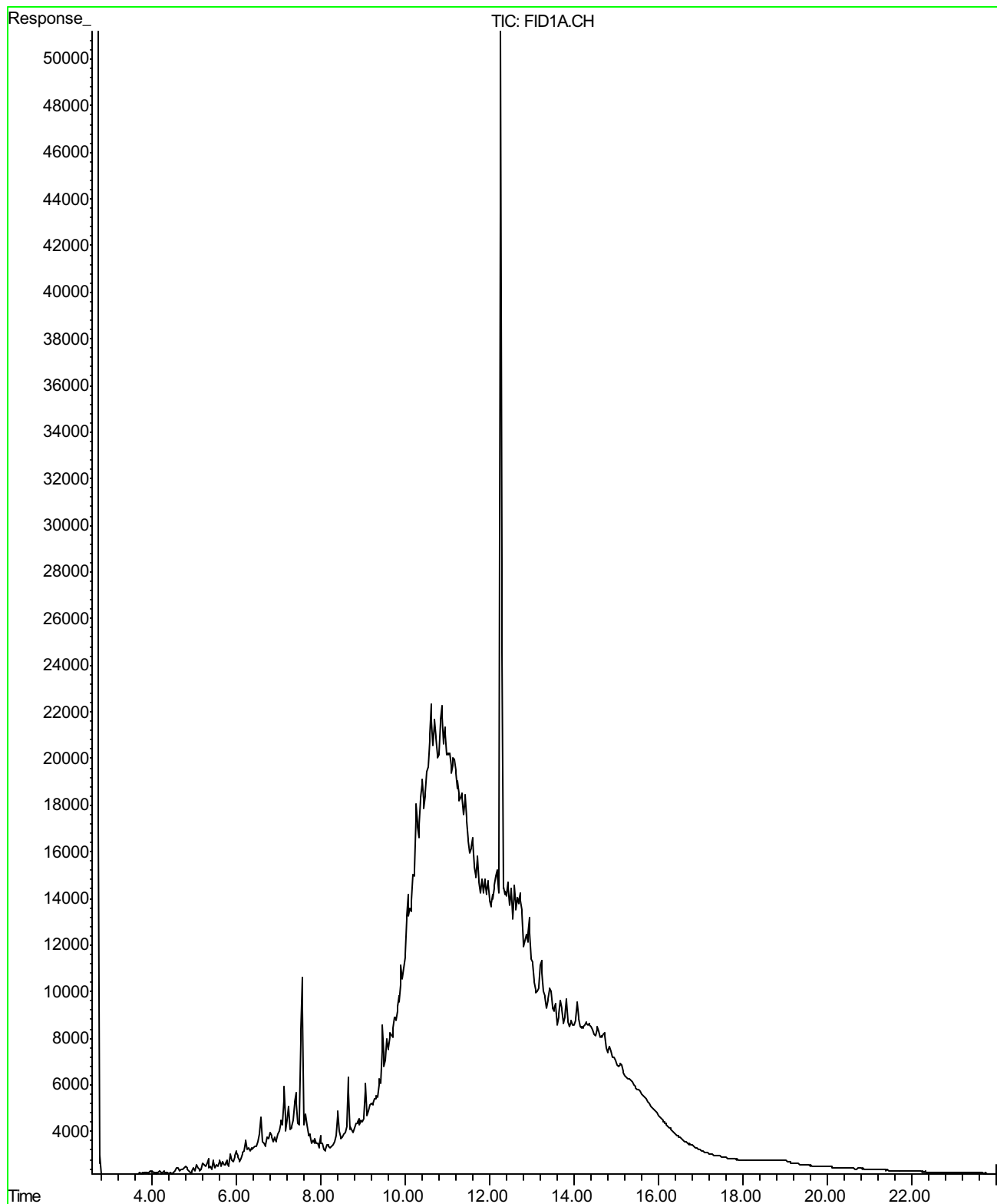
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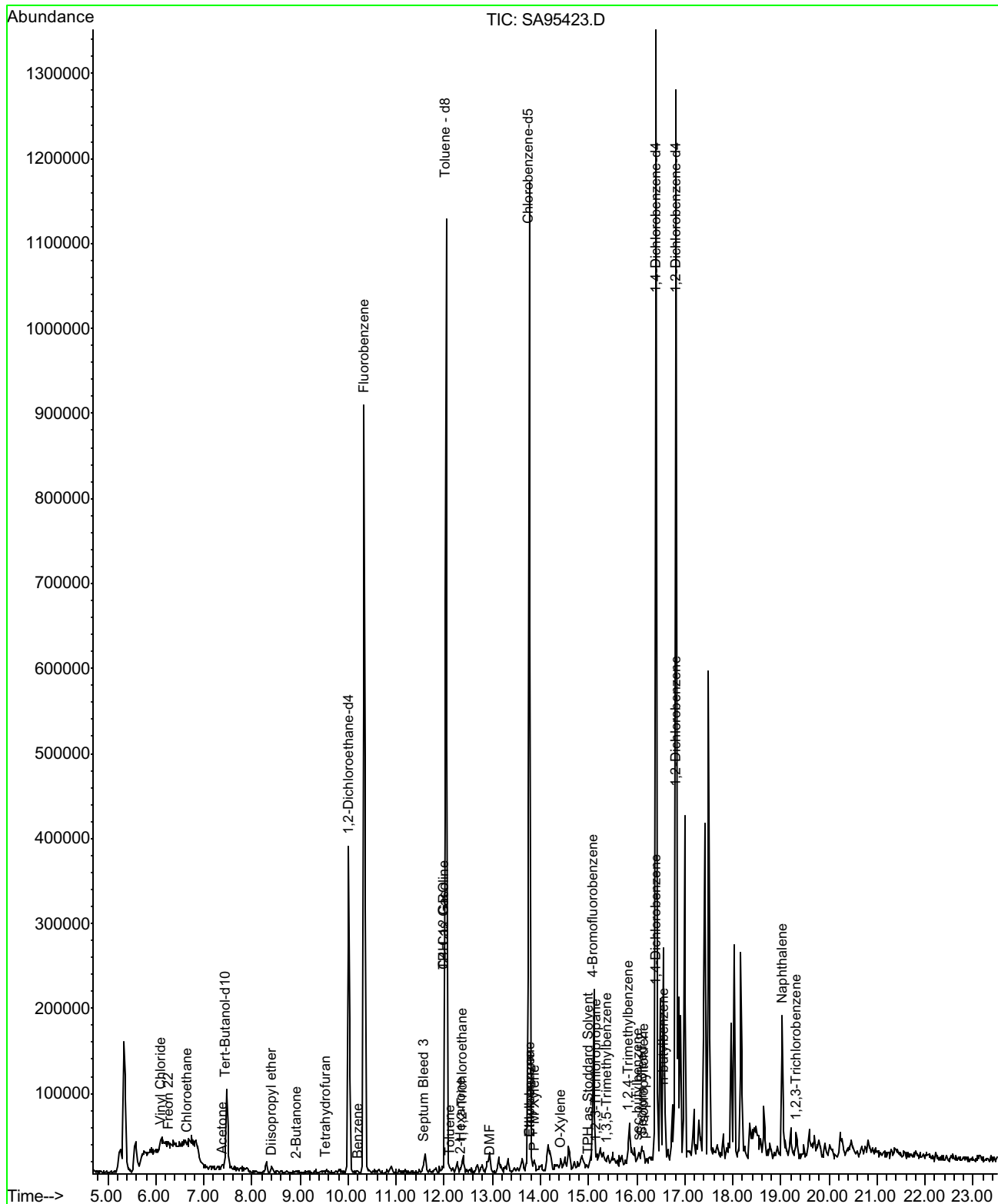
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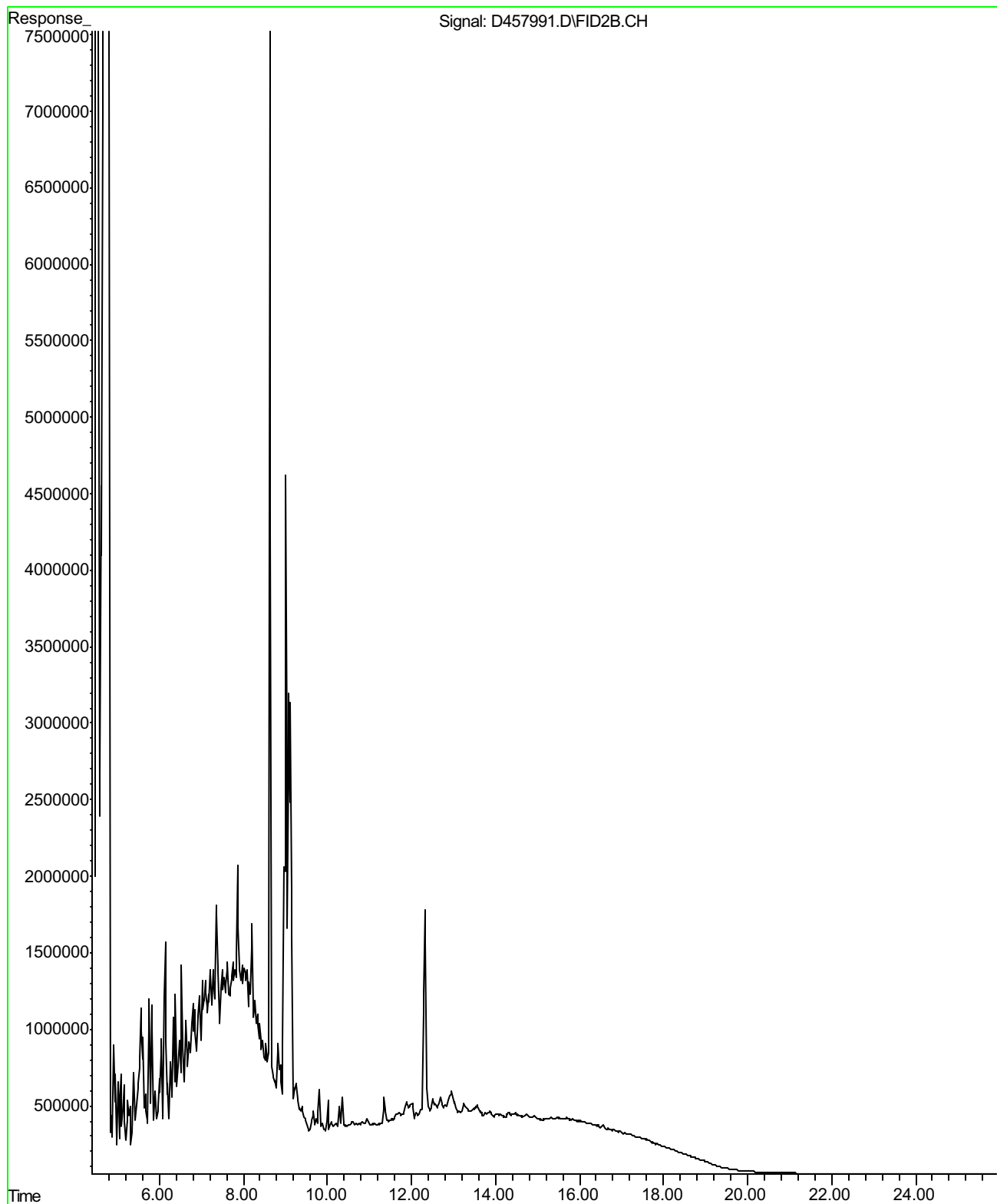
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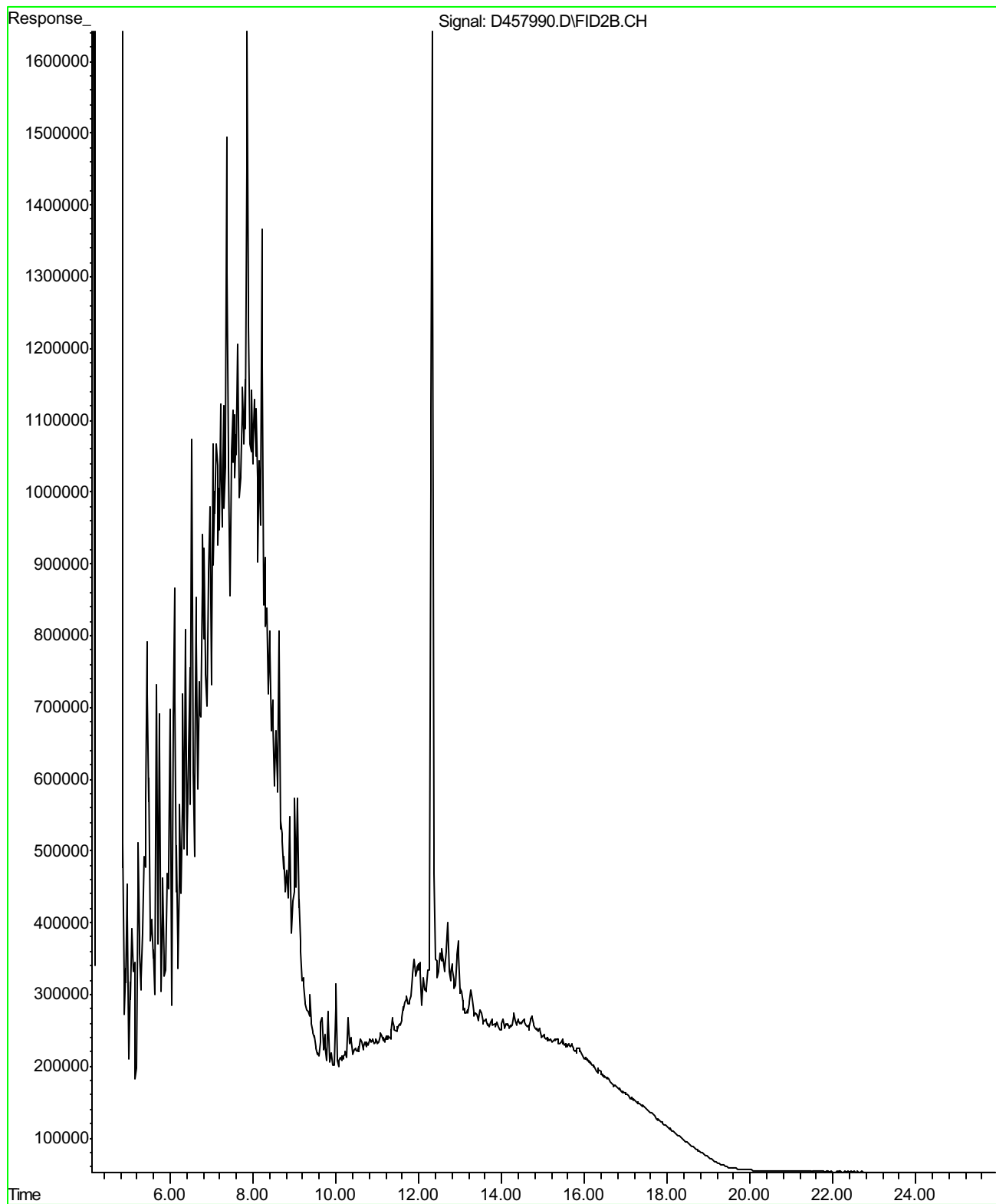
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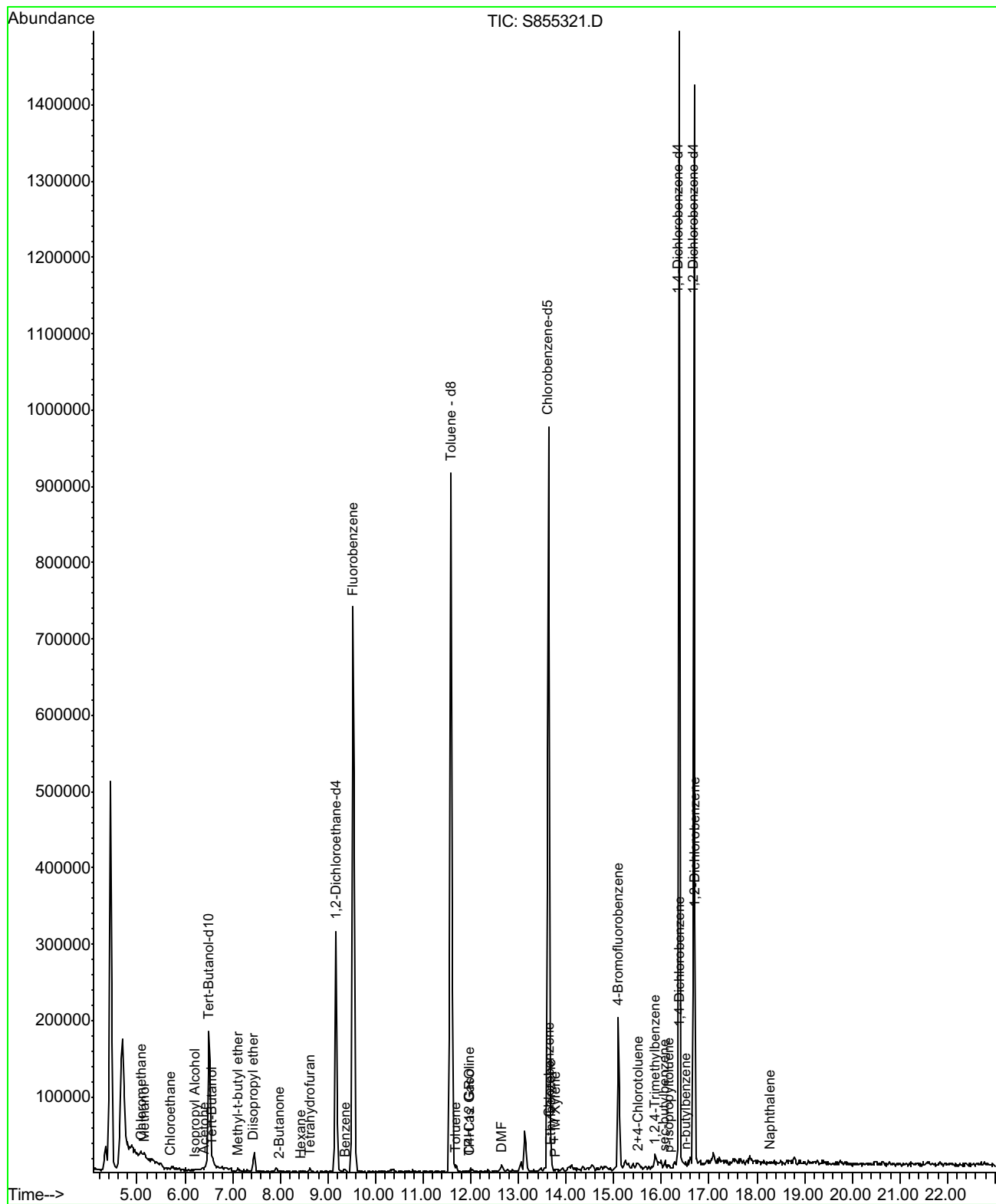
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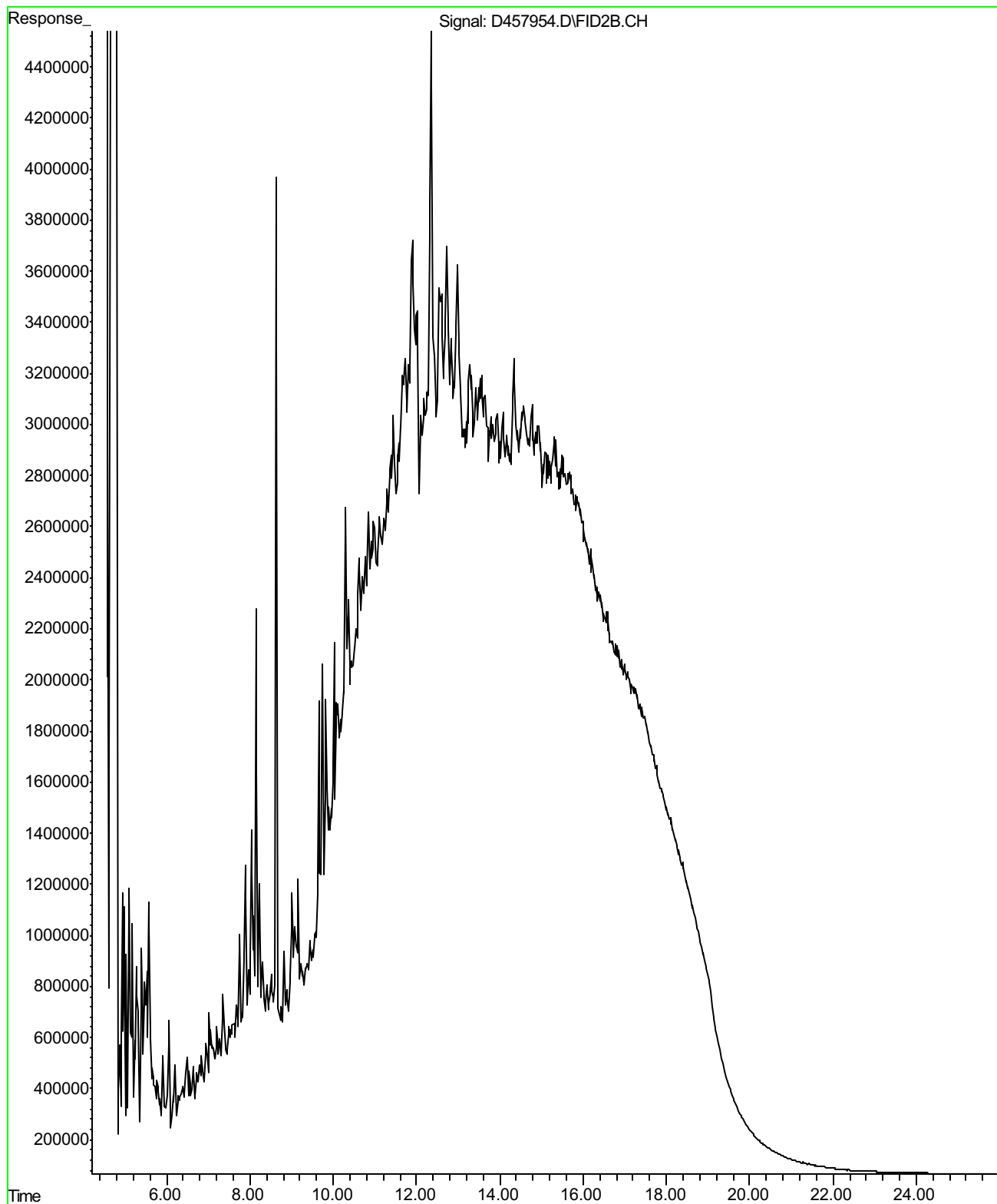
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Analysis Method : M EPA 8015



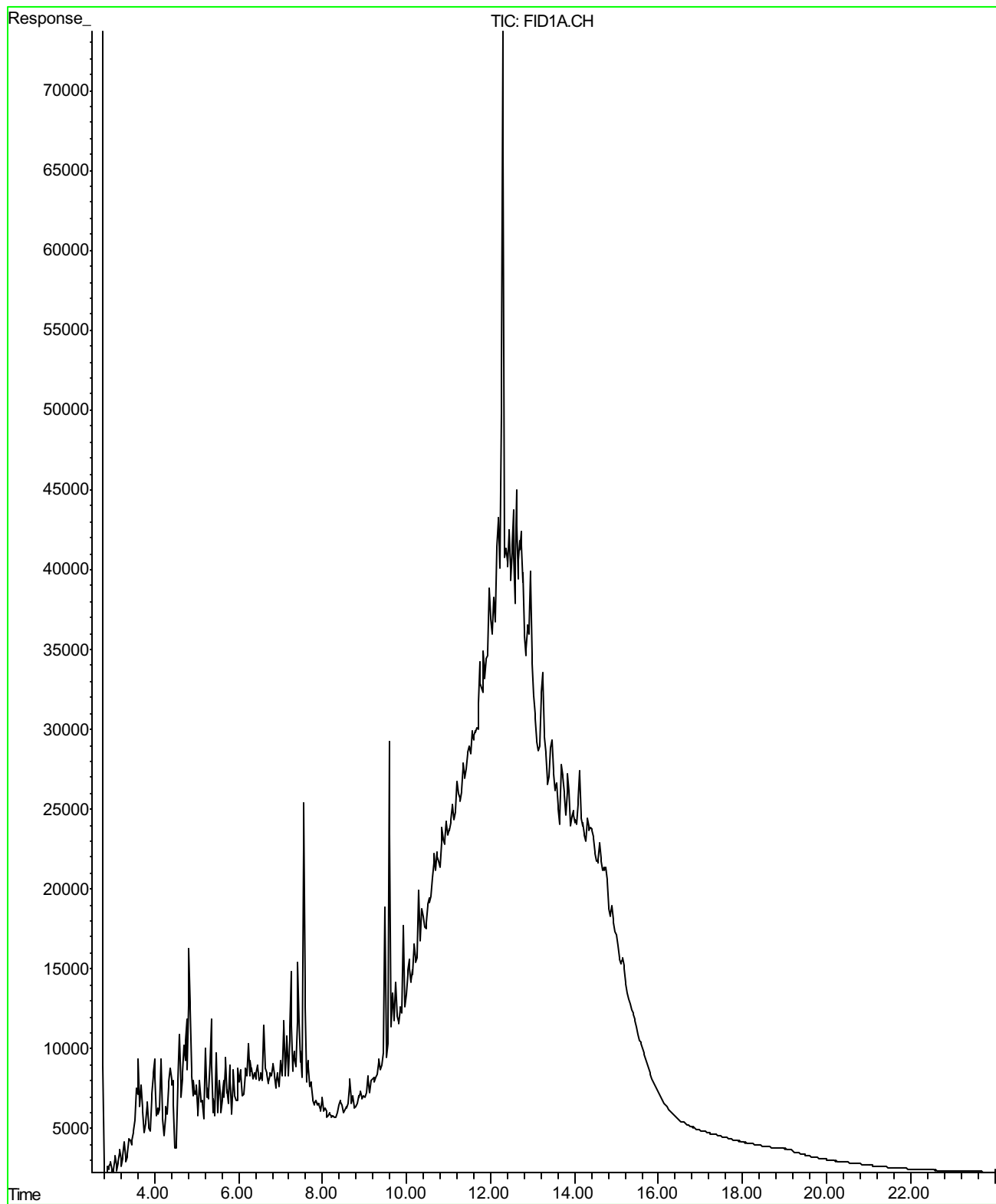
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 Date Analyzed : 07/04/2008
 Data File : S855321
 Analysis Method : EPA 8260B



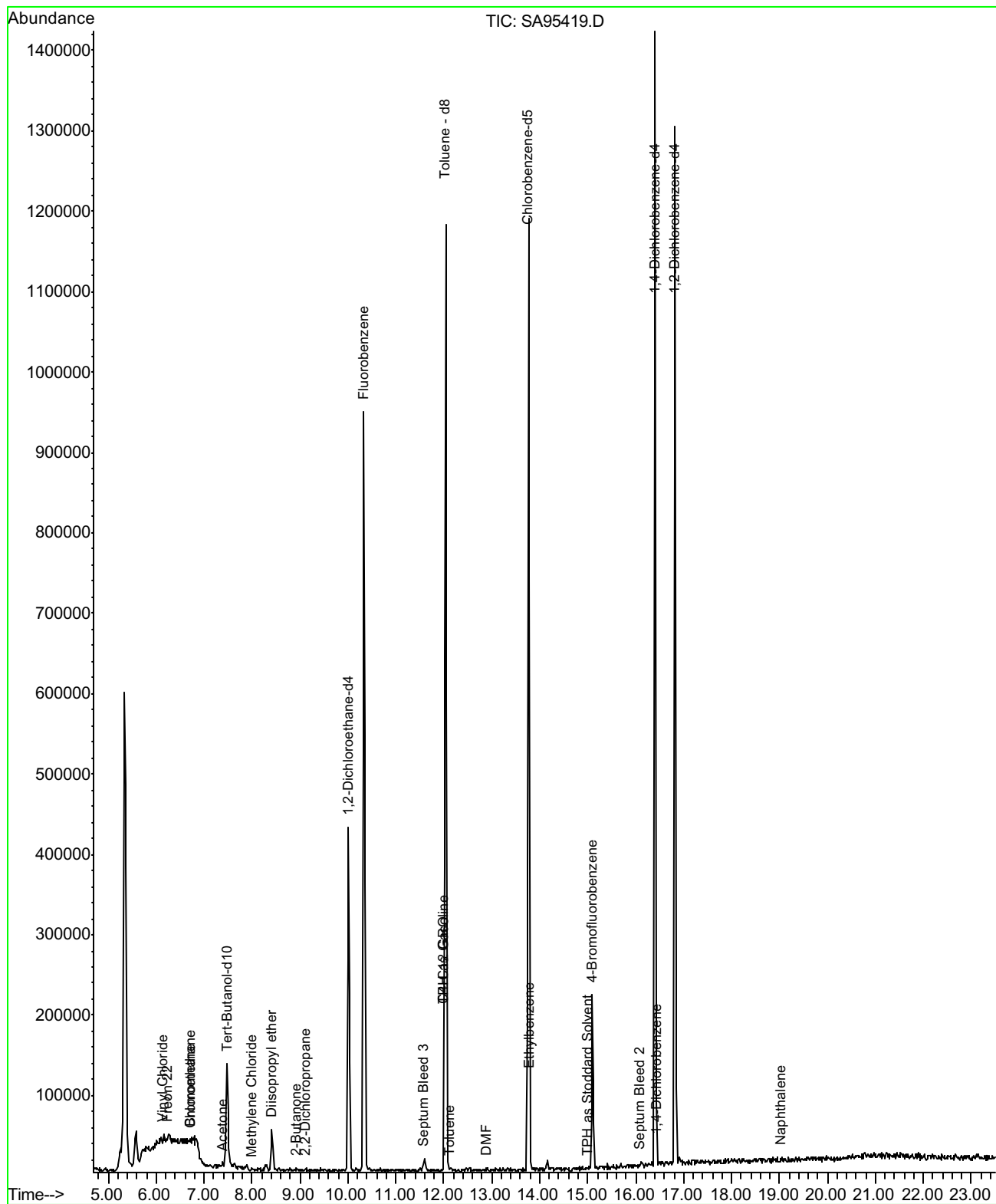
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Date Analyzed : 07/08/2008
Data File : D457954
Analysis Method : M EPA 8015



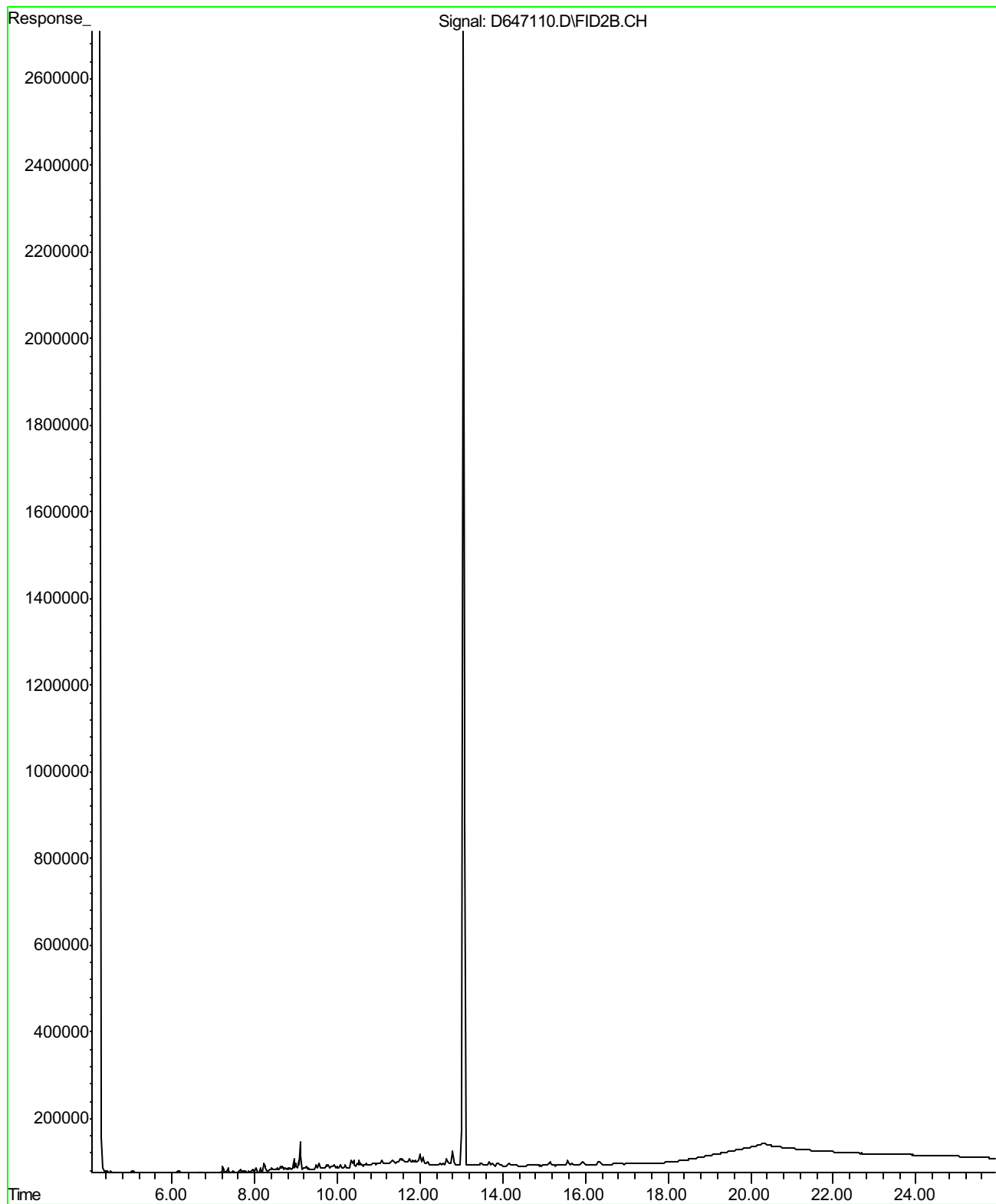
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Date Analyzed : 07/08/2008
Data File : D280998
Analysis Method : M EPA 8015



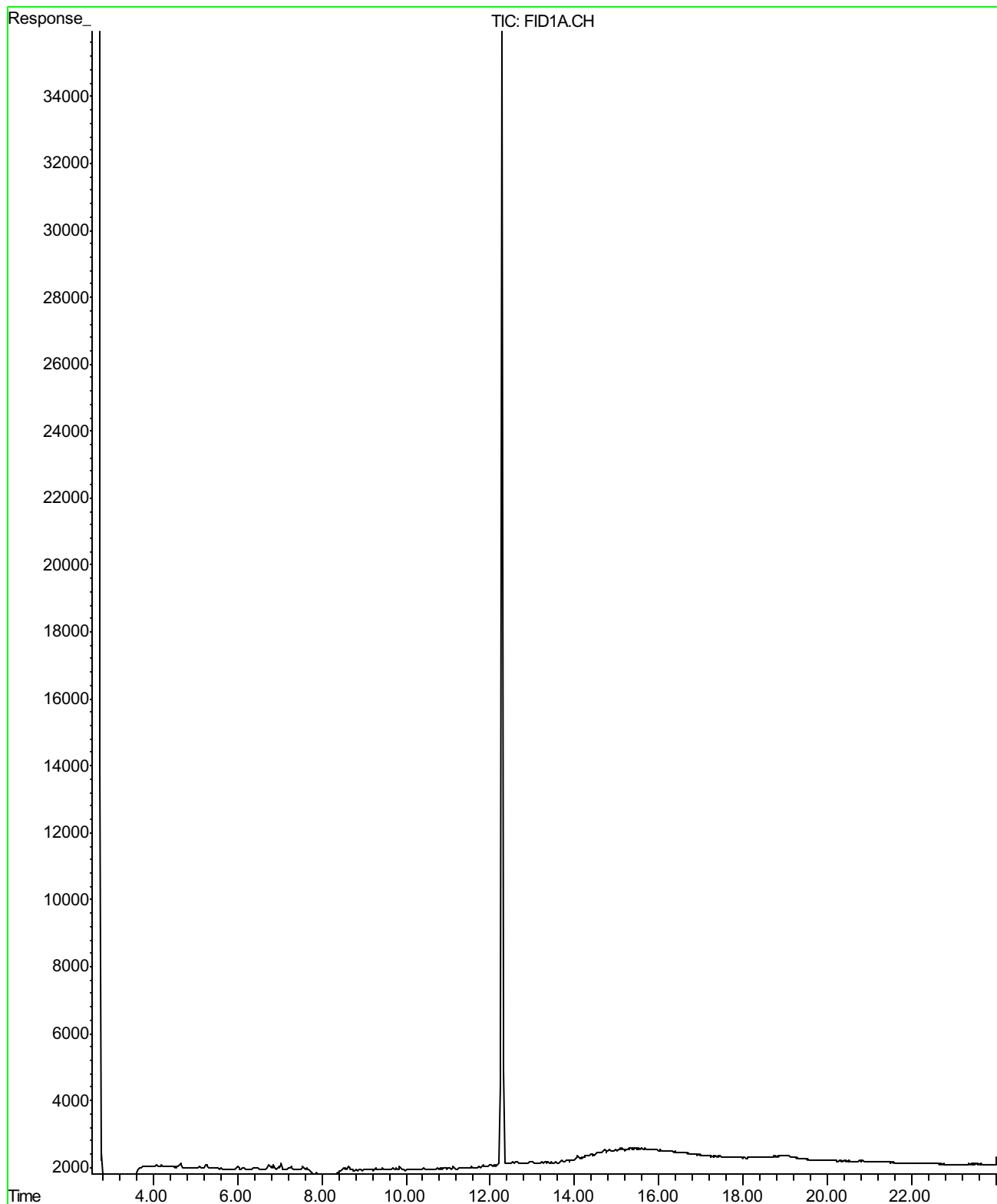
Sample ID : 63507-12 (MW-12)
Date Analyzed : 07/02/2008
Data File : SA95419
Analysis Method : EPA 8260B



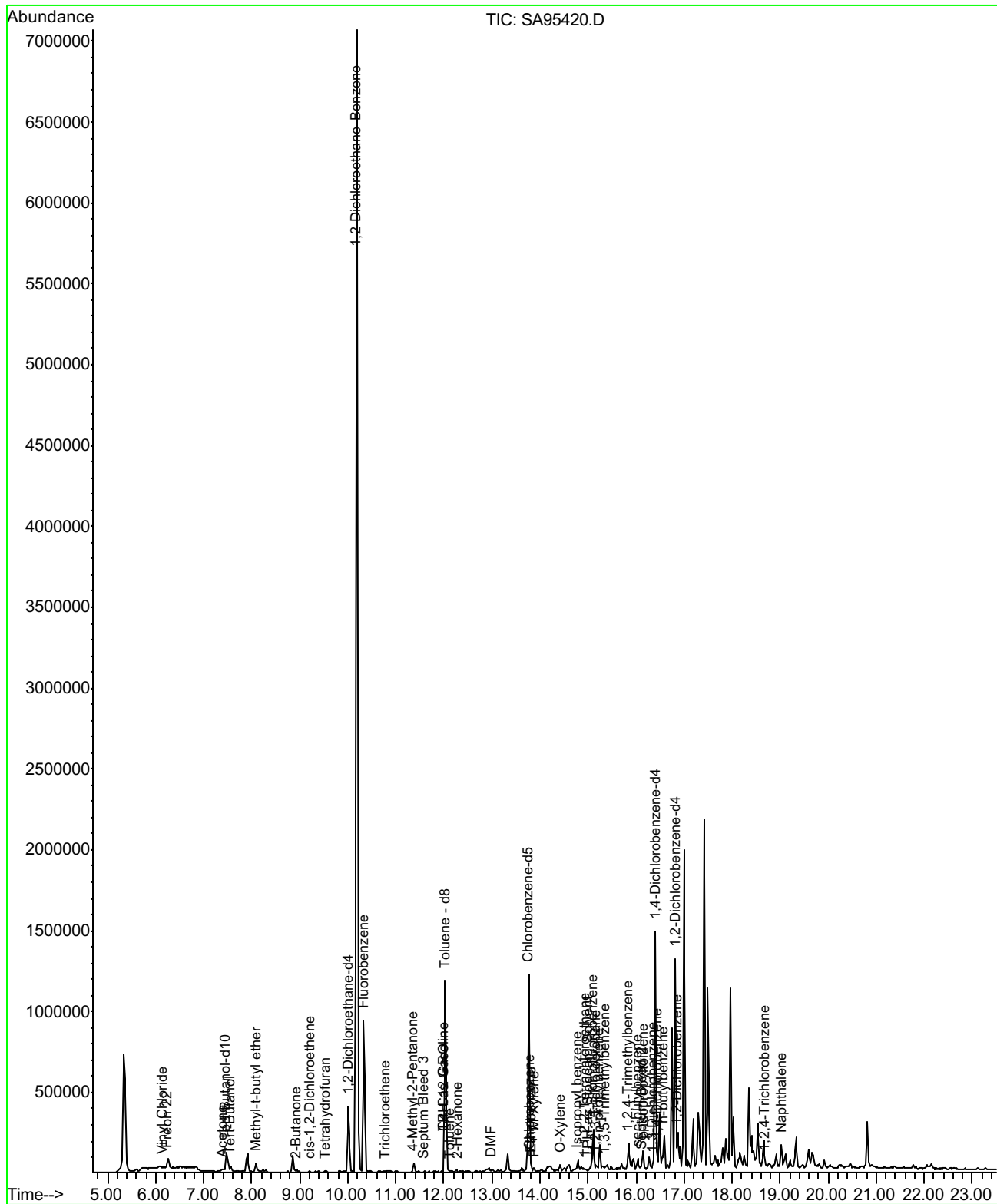
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Date Analyzed : 07/08/2008
Data File : D647110
Analysis Method : M EPA 8015



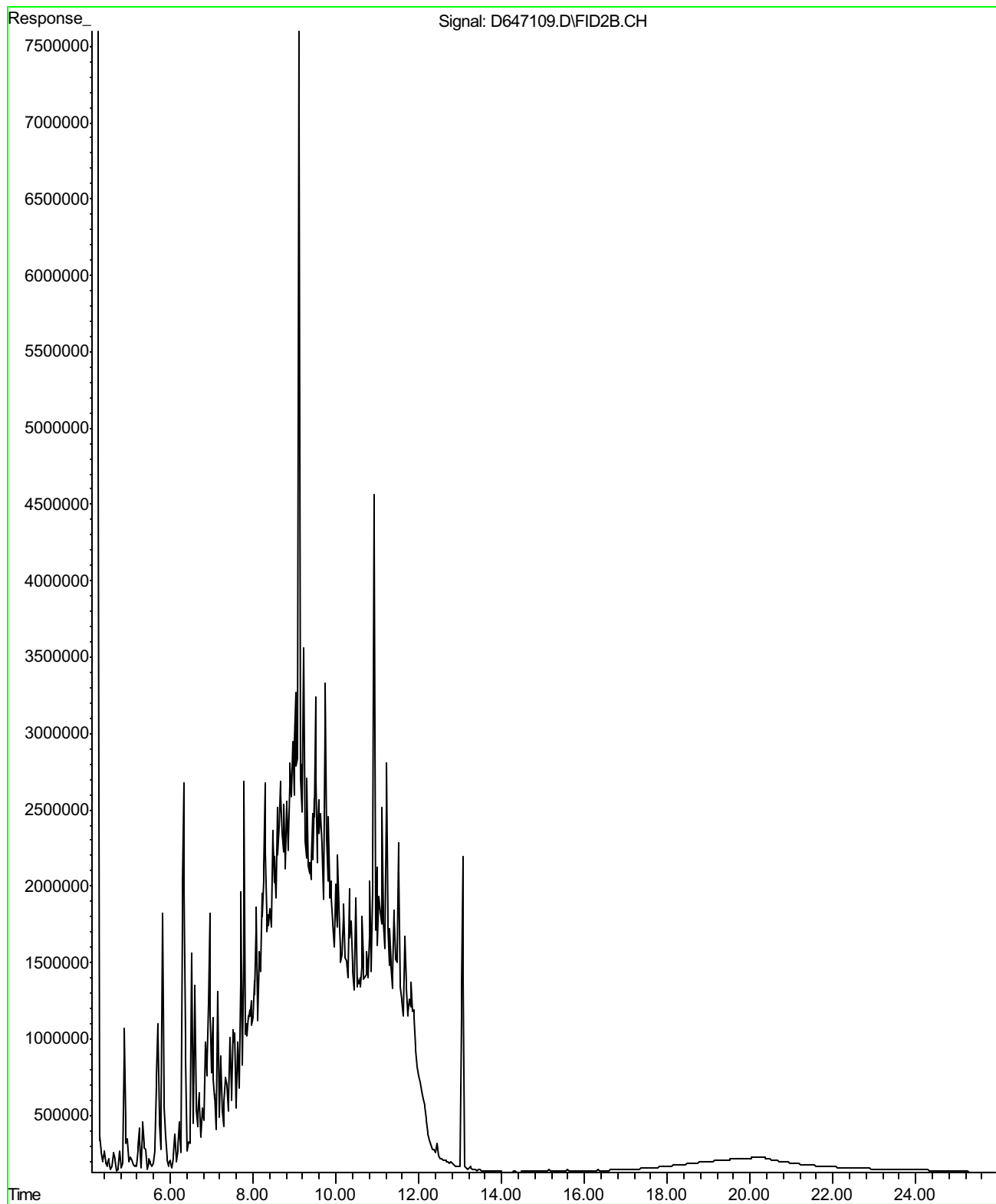
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Analysis Method : M EPA 8015



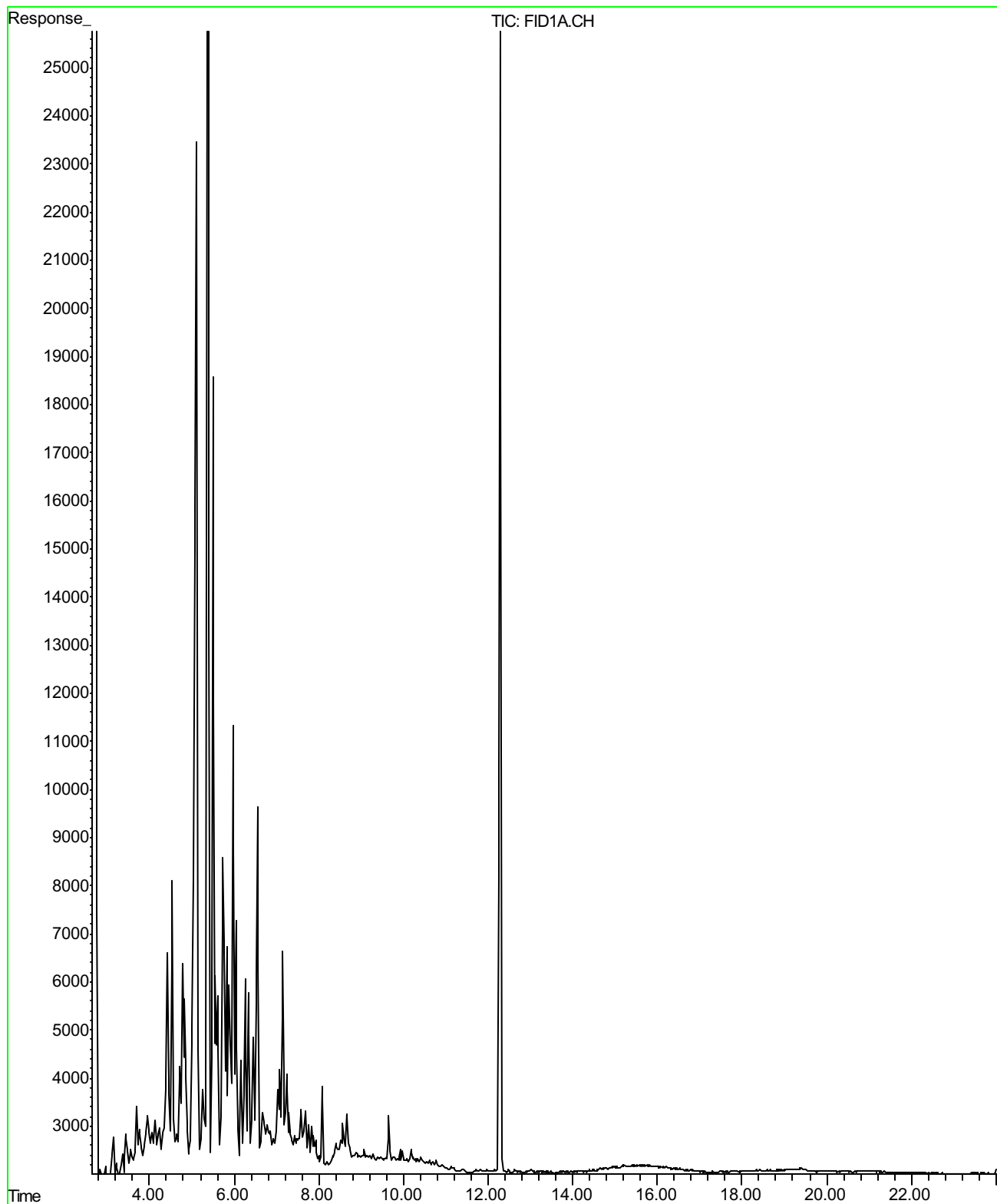
Sample ID : 63507-13 (MW-13)
Date Analyzed : 07/02/2008
Data File : SA95420
Analysis Method : EPA 8260B



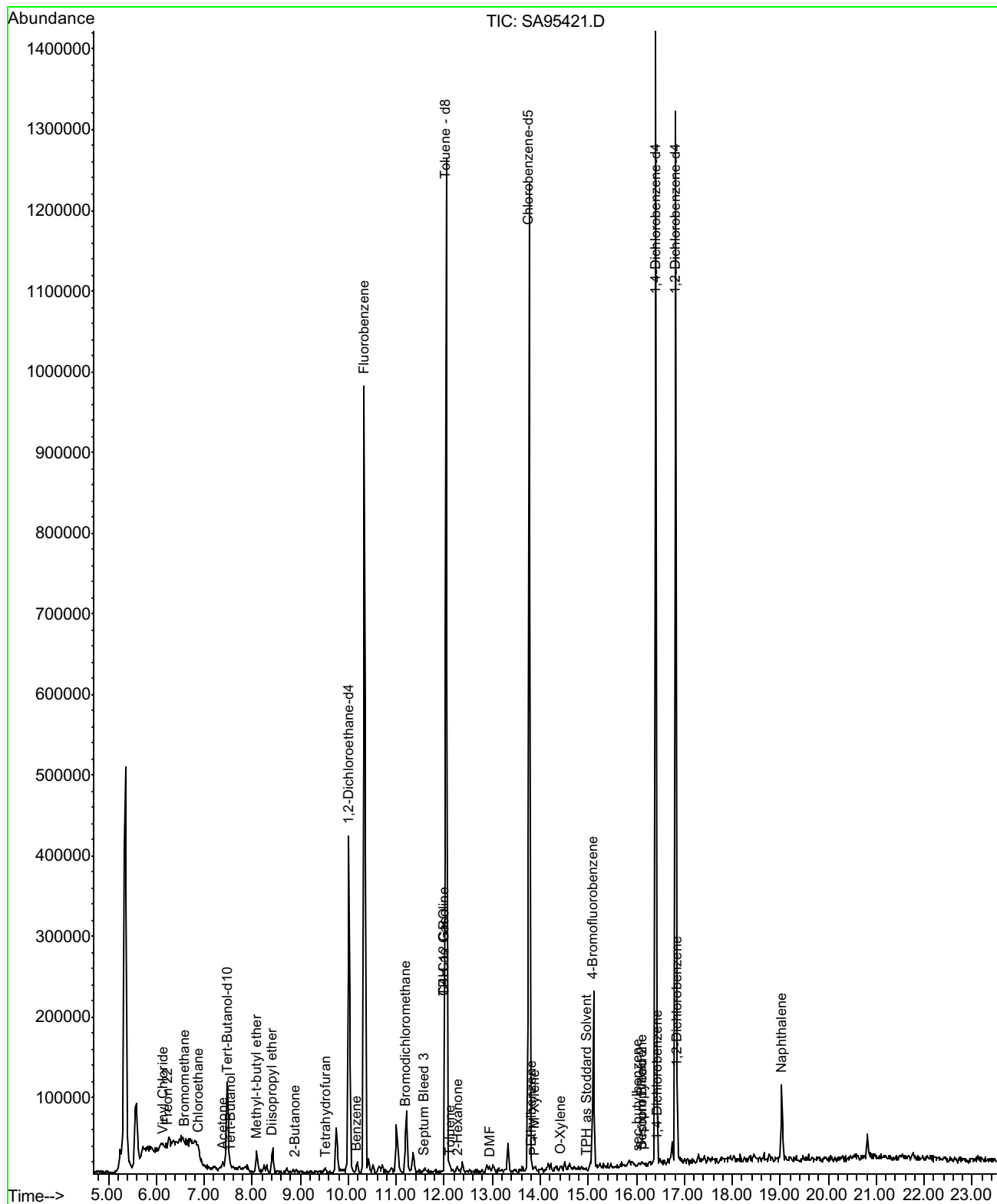
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Date Analyzed : 07/08/2008
Data File : D647109
Analysis Method : M EPA 8015



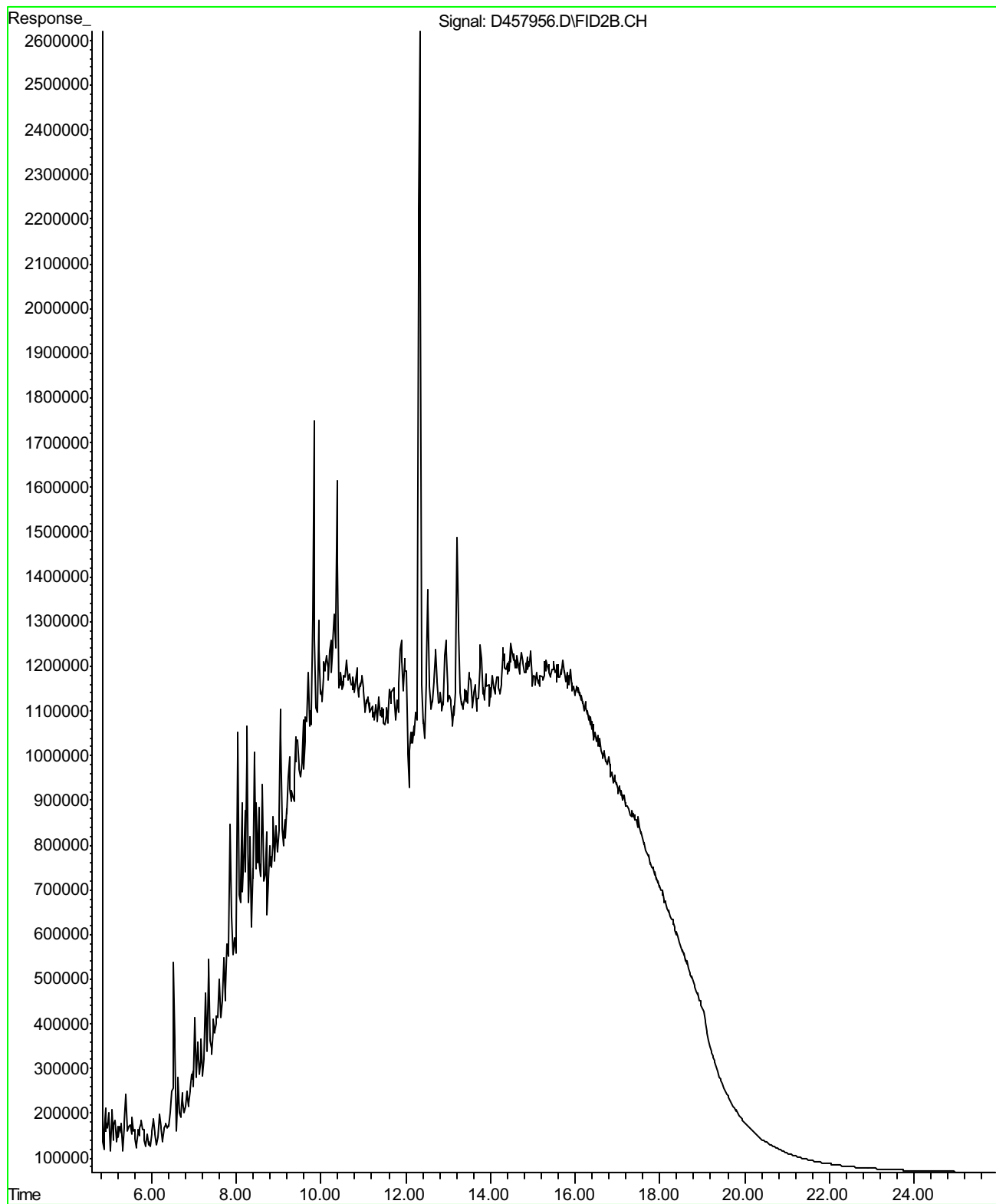
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Date Analyzed : 07/08/2008
Data File : D281000
Analysis Method : M EPA 8015



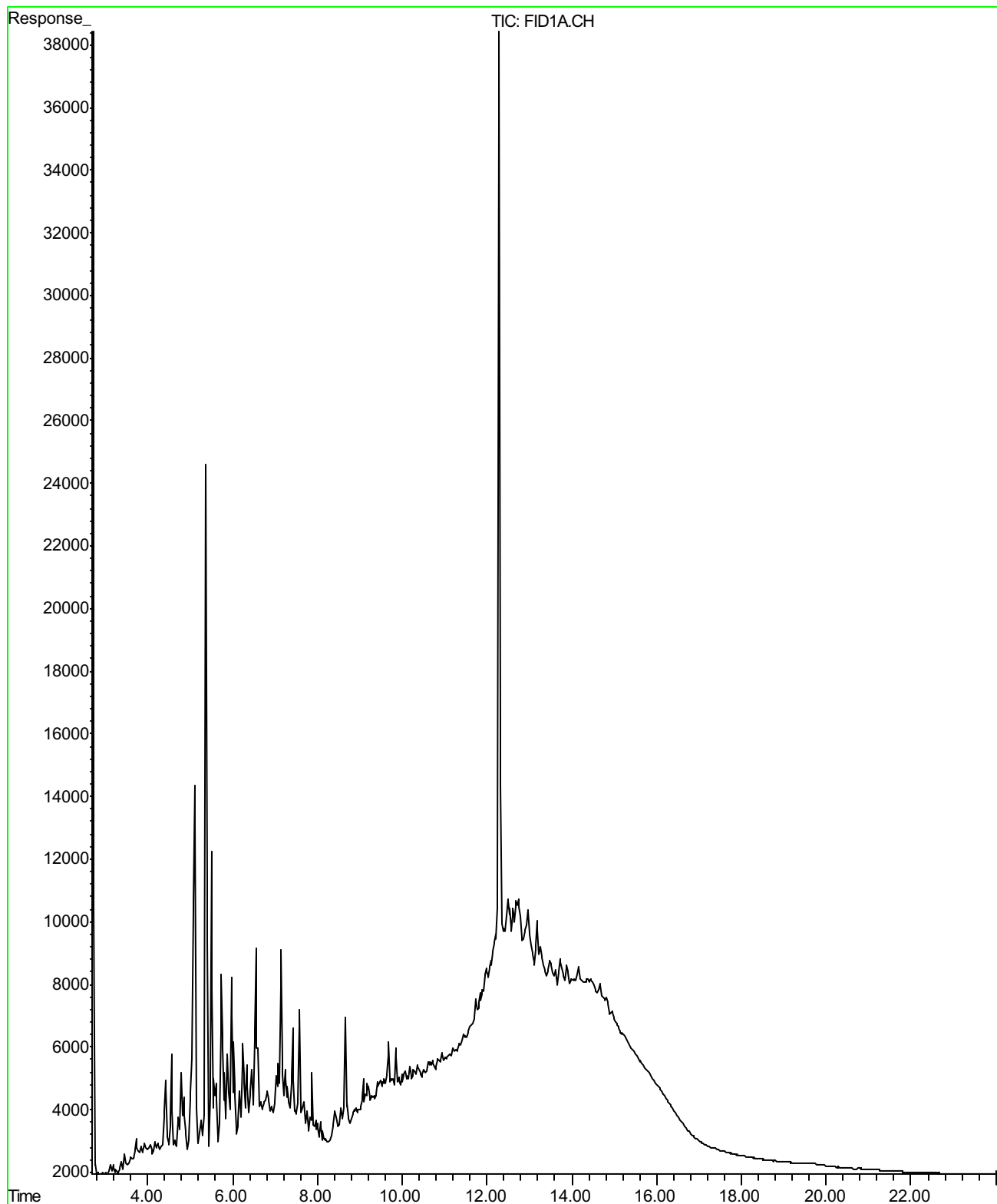
Sample ID : 63507-14 (MW-14)
Date Analyzed : 07/02/2008
Data File : SA95421
Analysis Method : EPA 8260B



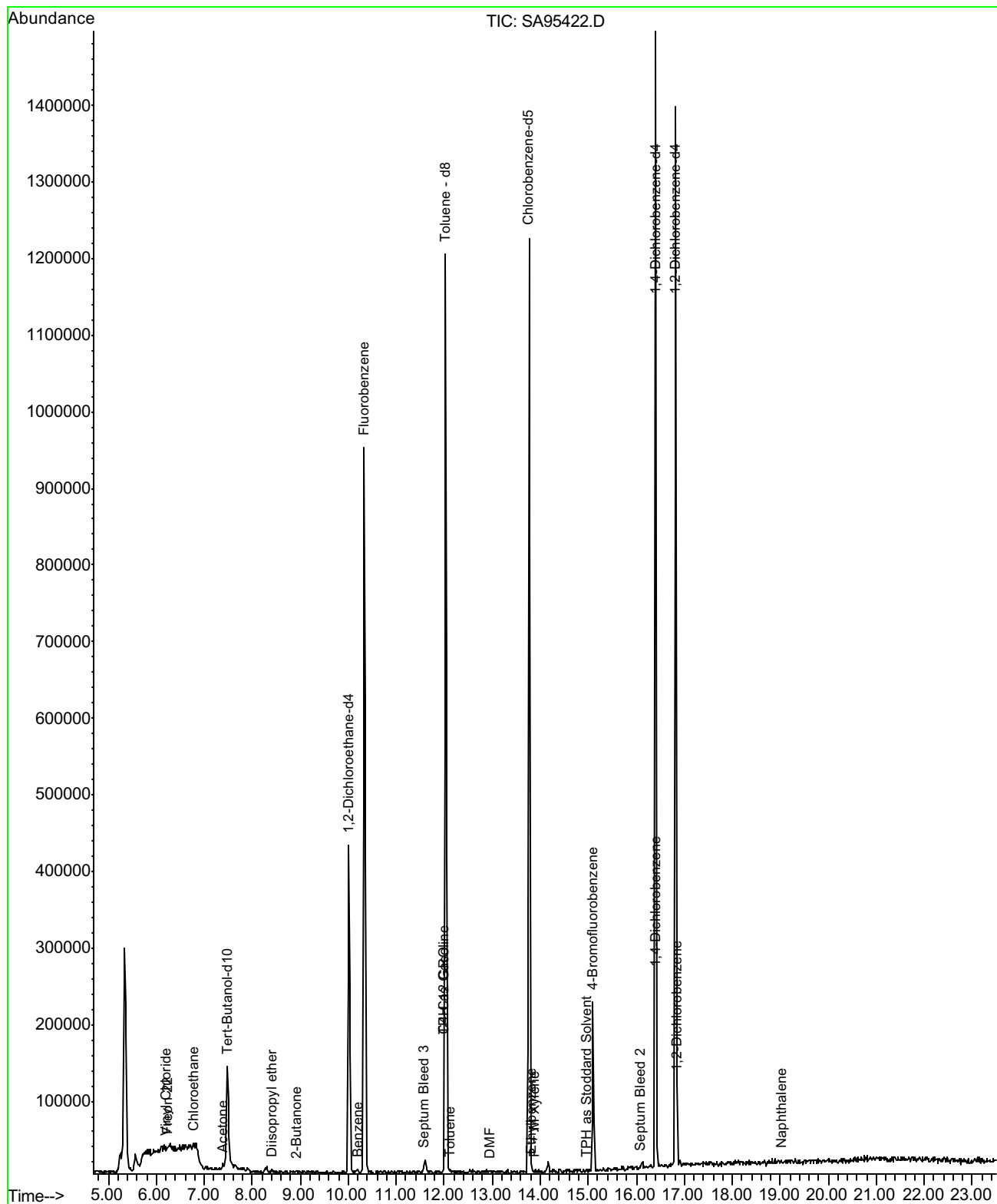
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Date Analyzed : 07/08/2008
Data File : D457956
Analysis Method : M EPA 8015



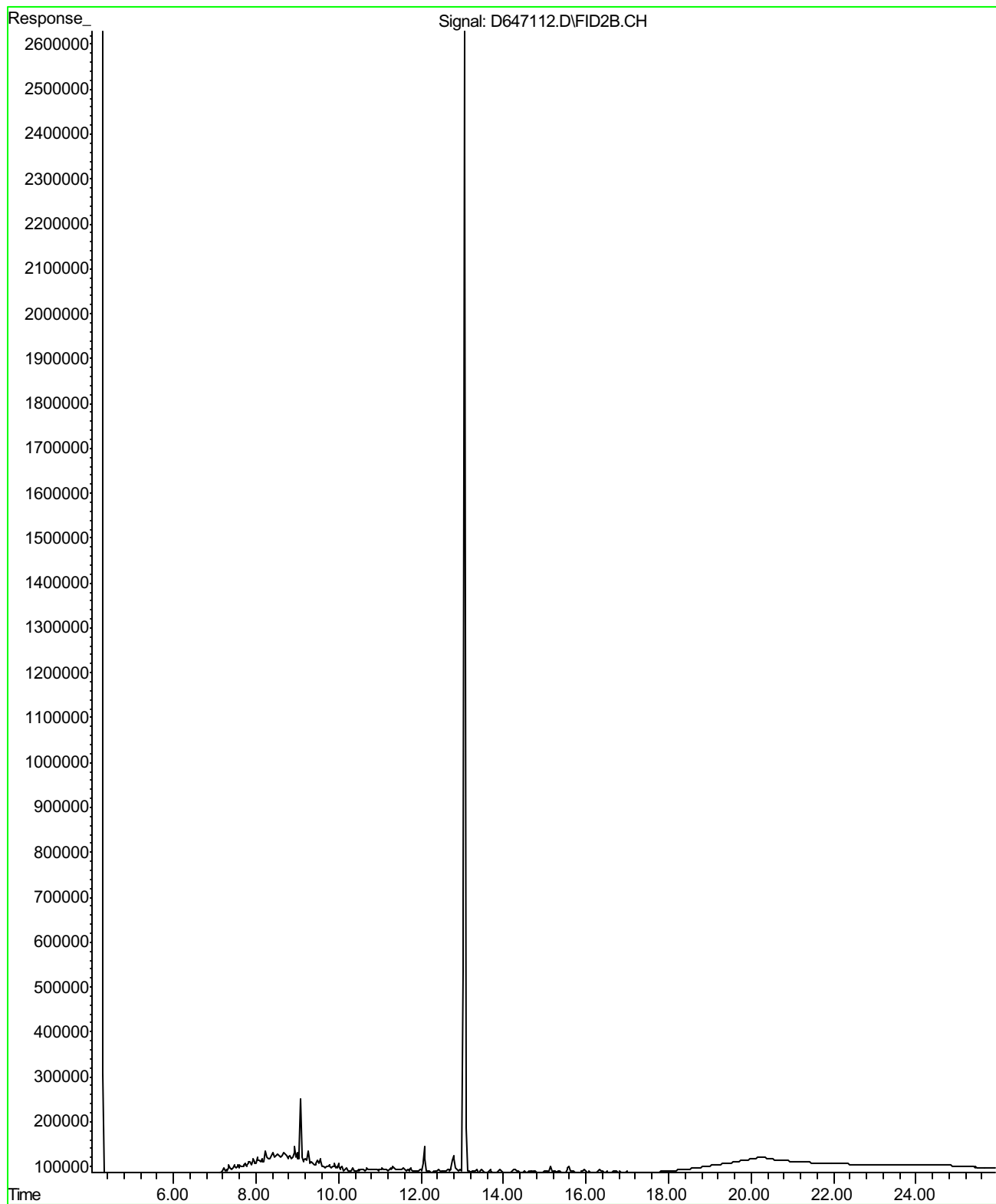
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Date Analyzed : 07/08/2008
Data File : D281012
Analysis Method : M EPA 8015



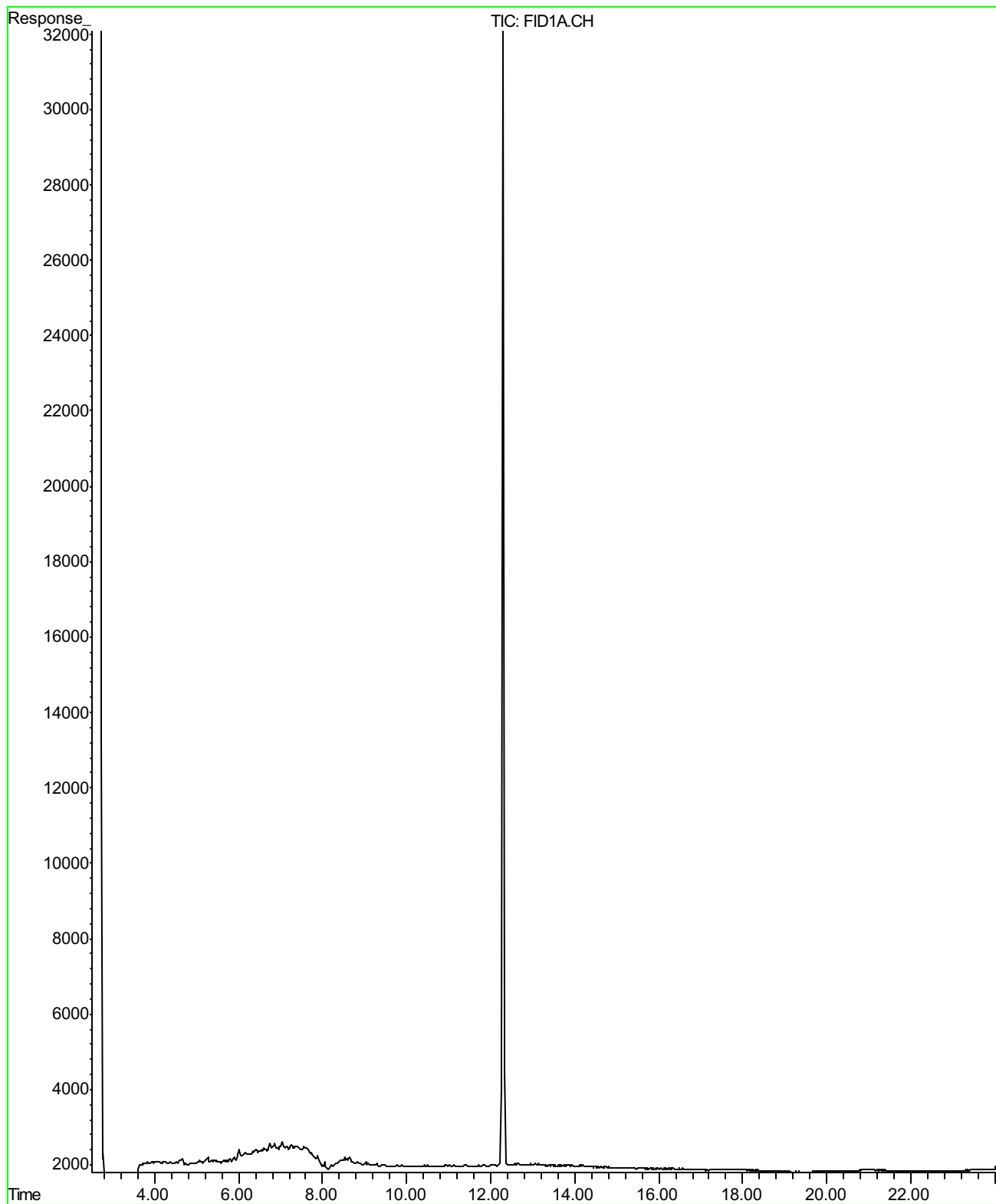
Sample ID : 63507-15 (MW-15)
Date Analyzed : 07/02/08
Data File : SA95422
Analysis Method : EPA 8260B



Sample ID : 63507-15 (MW-15)
Date Analyzed : 07/08/08
Data File : D647112
Analysis Method : M EPA 8015



Sample ID : 63507-15 SI (MW-15)
Date Analyzed : 07/08/08
Data File : D281011
Analysis Method : M EPA 8015



63507

Yes
 No

Chain-of-Custody-Record

Direct Bill To: Geoffrey Risse Gettler-Ryan Inc. 3140 Gold Camp Dr. Rancho Cordova, CA 95670	Facility <u>Rolls-Royce Engine Test Facility</u> Facility Address: <u>6701 Old Earhart Road, Oakland, CA</u> Consultant Project #: <u>25-948218.1</u> Consultant Name: <u>GETTLER-RYAN INC.</u> Address: <u>3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670</u> Project Contact: (Name) <u>Geoffrey Risse</u> e-mail <u>grisse@grinc.com</u> (Phone) <u>916-631-1300x12</u> (Fax) <u>916-631-1317</u>	(Name) <u>Geoffrey Risse</u> (Phone) <u>916-631-1300x12</u> Laboratory Name: <u>Kiff Analytical</u> Laboratory Service Order: _____ Laboratory Service Code: _____ Samples Collected by: (Name) <u>Jim Hesse</u> Signature: _____
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Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW								Series <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> ID			Remarks	
				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)									
QA	2	W	6/26/08				X									1 of 2
MW-1	7	W	1320	X	X	X	X									01
MW-2	7	W	1335	X	X	X	X									02
MW-3	7	W	1220	X	X	X	X									03
MW-4	7	W	1110	X	X	X	X									04
MW-5	7	W	1245	X	X	X	X									05
MW-6	7	W	1020	X	X	X	X									06
MW-7	7	W	1200	X	X	X	X									07
MW-8	7	W	1120	X	X	X	X									08
MW-9	7	W	1045	X	X	X	X									09
MW-10	7	W	1210	X	X	X	X									10
MW-11	7	W	1210	X	X	X	X									11
MW-12	7	W	1300	X	X	X	X									12
MW-13	7	W	1230	X	X	X	X									13
MW-14	7	W	1140	X	X	X	X									14

SAMPLE RECEIPT

Temp °C 2.6 Therm. ID# JR-1
 Initial NHP Date 06/30/08
 Time 1339 Coolant present: Yes/No

Relinquished By (Signature) 	Organization <u>GR inc</u>	Date/Time <u>6/26/08 1000</u>	Received By (Signature) 	Organization <u>GR inc</u>	Date/Time <u>06-30-08 1000</u>	Iced (Y/N) <input checked="" type="checkbox"/>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) 	Organization <u>GR inc</u>	Date/Time <u>06-30-08 1000</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Iced (Y/N) _____	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) 	Organization <u>Kiff Analytical</u>	Date/Time <u>06/30/08 1003</u>	Iced (Y/N) <u>Y</u>	



Report Number : 63600

Date : 07/14/2008

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

Subject : 5 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,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 63600

Date : 07/14/2008

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

Project Number : **25-948218.1**


Sample : **MW-8**

Matrix : Water

Lab Number : 63600-01

Sample Date :07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/08/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	07/08/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	07/08/2008
Toluene - d8 (Surr)	95.2		% Recovery	EPA 8260B	07/08/2008
TPH as Motor Oil	4400	100	ug/L	M EPA 8015	07/10/2008
TPH as Diesel (w/ Silica Gel)	1200	50	ug/L	M EPA 8015	07/09/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	1800	50	ug/L	M EPA 8015	07/10/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	07/10/2008
Octacosane (Silica Gel Surr)	121		% Recovery	M EPA 8015	07/09/2008

Approved By:  Joel Kiff



Report Number : 63600

Date : 07/14/2008

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

Project Number : **25-948218.1**


Sample : **MW-17**

Matrix : Water

Lab Number : 63600-02

Sample Date :07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/08/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	07/08/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	07/08/2008
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	07/08/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/10/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	84	50	ug/L	M EPA 8015	07/10/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	07/10/2008
Octacosane (Silica Gel Surr)	93.8		% Recovery	M EPA 8015	07/09/2008

Approved By:  Joel Kiff



Report Number : 63600

Date : 07/14/2008

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

Project Number : **25-948218.1**

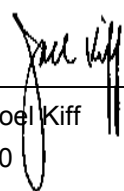
Sample : **NPORDMW-3**

Matrix : Water

Lab Number : 63600-03

Sample Date :07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/08/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	07/08/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/08/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/08/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/10/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	99	50	ug/L	M EPA 8015	07/10/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	111		% Recovery	M EPA 8015	07/10/2008
Octacosane (Silica Gel Surr)	97.5		% Recovery	M EPA 8015	07/09/2008

Approved By:  Joel Kiff



Report Number : 63600

Date : 07/14/2008

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

Project Number : **25-948218.1**

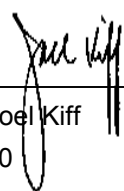
Sample : **NPORDMW-4**

Matrix : Water

Lab Number : 63600-04

Sample Date :07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/08/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2008
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	07/08/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/08/2008
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	07/08/2008
TPH as Motor Oil	700	100	ug/L	M EPA 8015	07/10/2008
TPH as Diesel (w/ Silica Gel)	360	50	ug/L	M EPA 8015	07/09/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	960	50	ug/L	M EPA 8015	07/10/2008
(Note: Higher boiling hydrocarbons present, atypical for Jet Fuel.)					
Octacosane (Diesel Surrogate)	118		% Recovery	M EPA 8015	07/10/2008
Octacosane (Silica Gel Surr)	129		% Recovery	M EPA 8015	07/09/2008

Approved By:  Joel Kiff

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



Report Number : 63600

Date : 07/14/2008

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

Project Number : **25-948218.1**

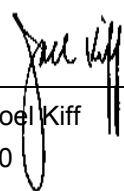
Sample : **QA**

Matrix : Water

Lab Number : 63600-05

Sample Date :07/03/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/07/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	07/07/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/07/2008
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	07/07/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/10/2008
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	07/10/2008
Octacosane (Diesel Surrogate)	120		% Recovery	M EPA 8015	07/10/2008
Octacosane (Silica Gel Surr)	117		% Recovery	M EPA 8015	07/09/2008

Approved By:  Joel Kiff

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 Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	07/09/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	07/09/2008
Octacosane (Diesel Surrogate)	105		%	M EPA 8015	07/09/2008
Octacosane (Silica Gel Surr)	107		%	M EPA 8015	07/09/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/07/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
1,2-Dichloroethane-d4 (Surr)	99.7		%	EPA 8260B	07/07/2008
4-Bromofluorobenzene (Surr)	111		%	EPA 8260B	07/07/2008
Toluene - d8 (Surr)	101		%	EPA 8260B	07/07/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/07/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/07/2008
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	07/07/2008
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	07/07/2008
Toluene - d8 (Surr)	95.3		%	EPA 8260B	07/07/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  _____
 Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

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-D (Si Gel)	BLANK	<50	1000	1000	951	992	ug/L	M EPA 8015	7/9/08	95.1	99.2	4.16	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	1050	1040	ug/L	M EPA 8015	7/9/08	105	104	0.586	70-130	25
Benzene	63571-04	<0.50	40.1	40.1	38.4	36.3	ug/L	EPA 8260B	7/7/08	95.6	90.5	5.52	70-130	25
Methyl-t-butyl ether	63571-04	<0.50	40.1	40.1	42.0	38.6	ug/L	EPA 8260B	7/7/08	105	96.4	8.38	70-130	25
Toluene	63571-04	<0.50	39.5	39.5	39.1	36.0	ug/L	EPA 8260B	7/7/08	99.0	91.0	8.44	70-130	25
Benzene	63580-02	<0.50	40.1	40.1	39.6	38.6	ug/L	EPA 8260B	7/7/08	98.6	96.1	2.56	70-130	25
Methyl-t-butyl ether	63580-02	<0.50	40.1	40.1	30.5	30.5	ug/L	EPA 8260B	7/7/08	76.1	76.2	0.0588	70-130	25
Toluene	63580-02	<0.50	39.5	39.5	37.3	36.2	ug/L	EPA 8260B	7/7/08	94.3	91.6	2.92	70-130	25

Approved By:  _____
 Joel Kiff

QC Report : Laboratory Control Sample (LCS)

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	7/7/08	94.1	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	7/7/08	98.5	70-130
Toluene	40.0	ug/L	EPA 8260B	7/7/08	97.5	70-130
Benzene	40.1	ug/L	EPA 8260B	7/7/08	98.7	70-130
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	7/7/08	80.9	70-130
Toluene	40.1	ug/L	EPA 8260B	7/7/08	94.2	70-130

KIFF ANALYTICAL, LLC

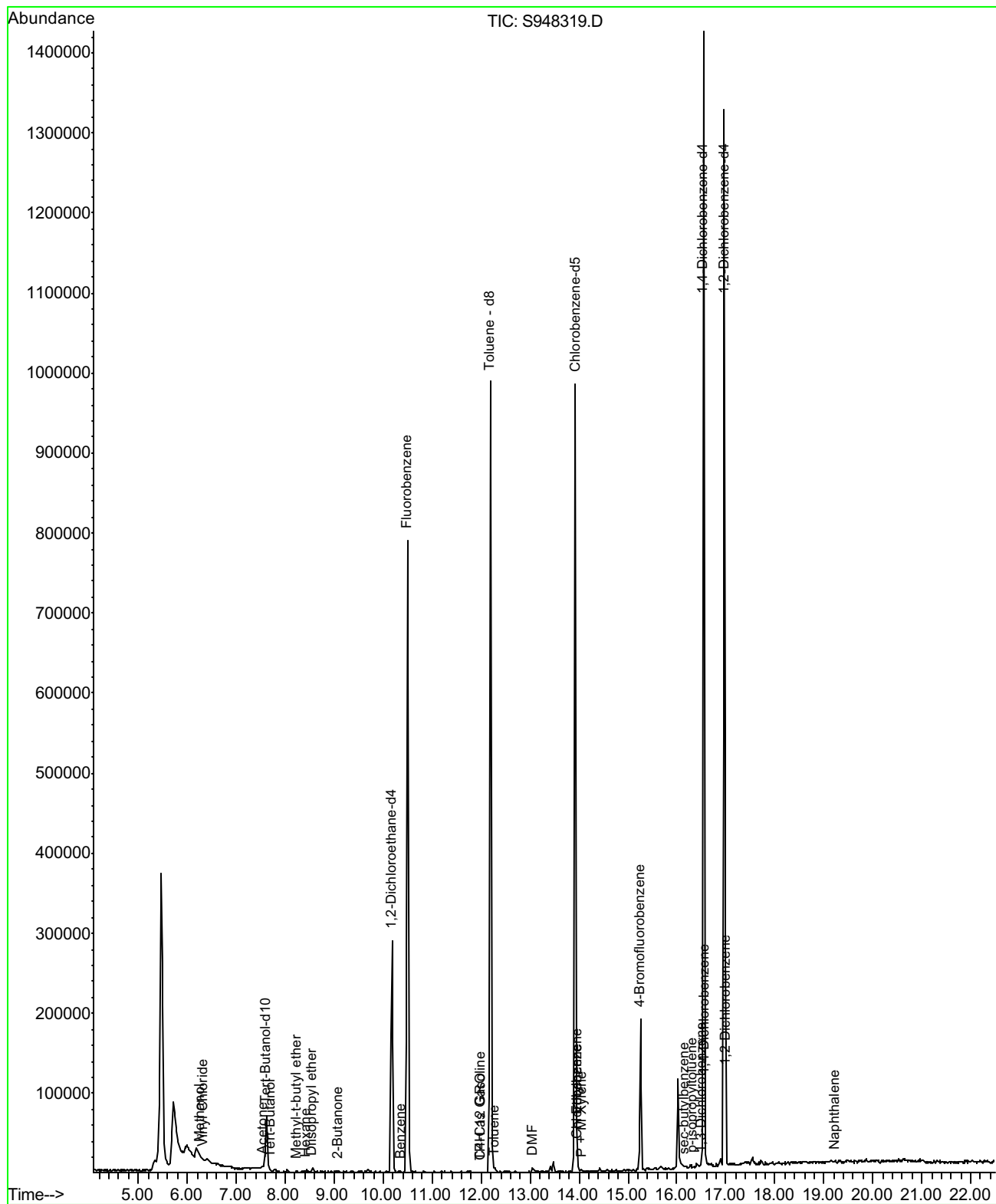
2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Approved By:

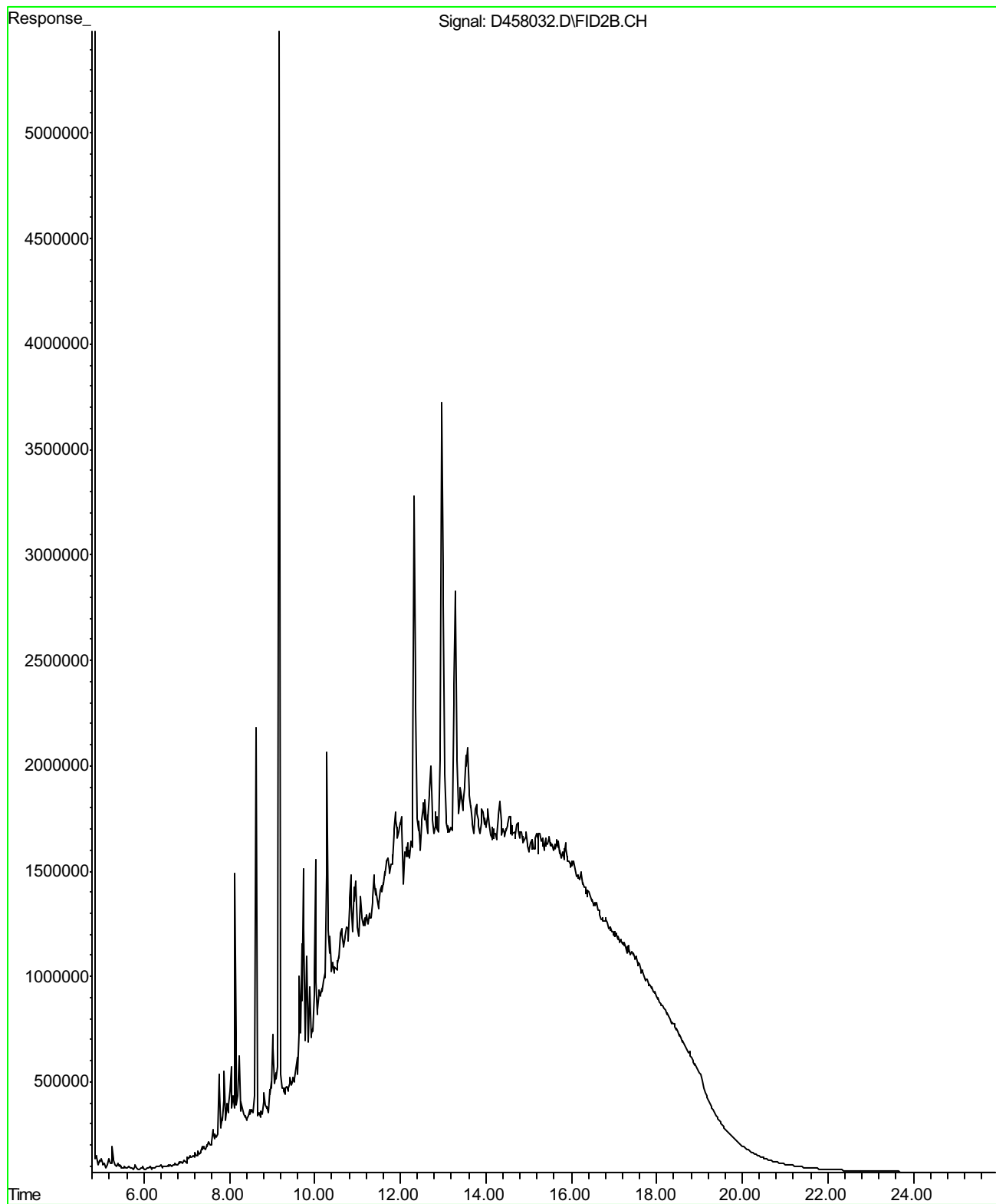


 Joel Kiff

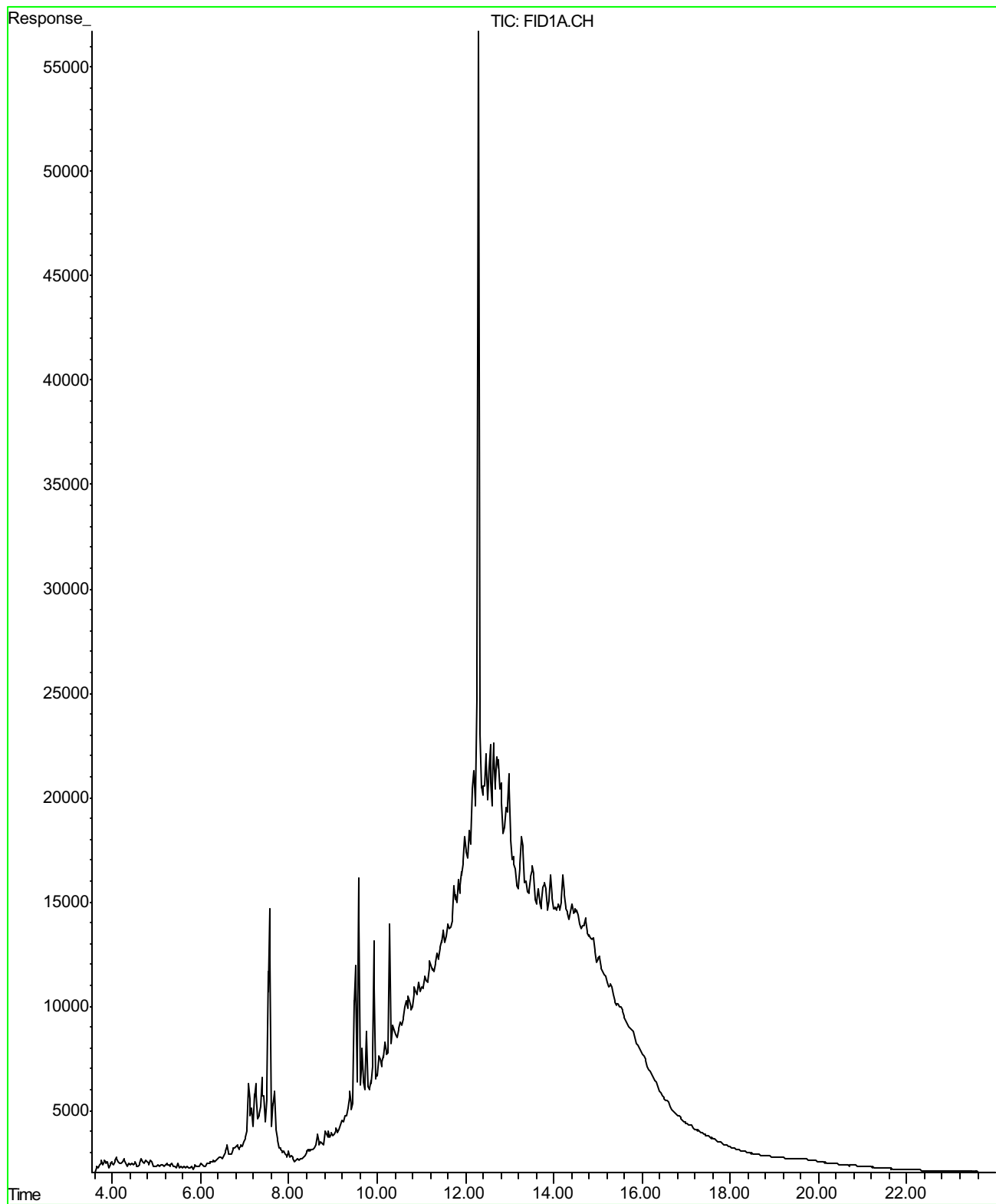
Sample ID : 63600-01 (MW-8)
 Date Analyzed : 07/08/08
 Data File : S948319
 Analysis Method : EPA 8260B



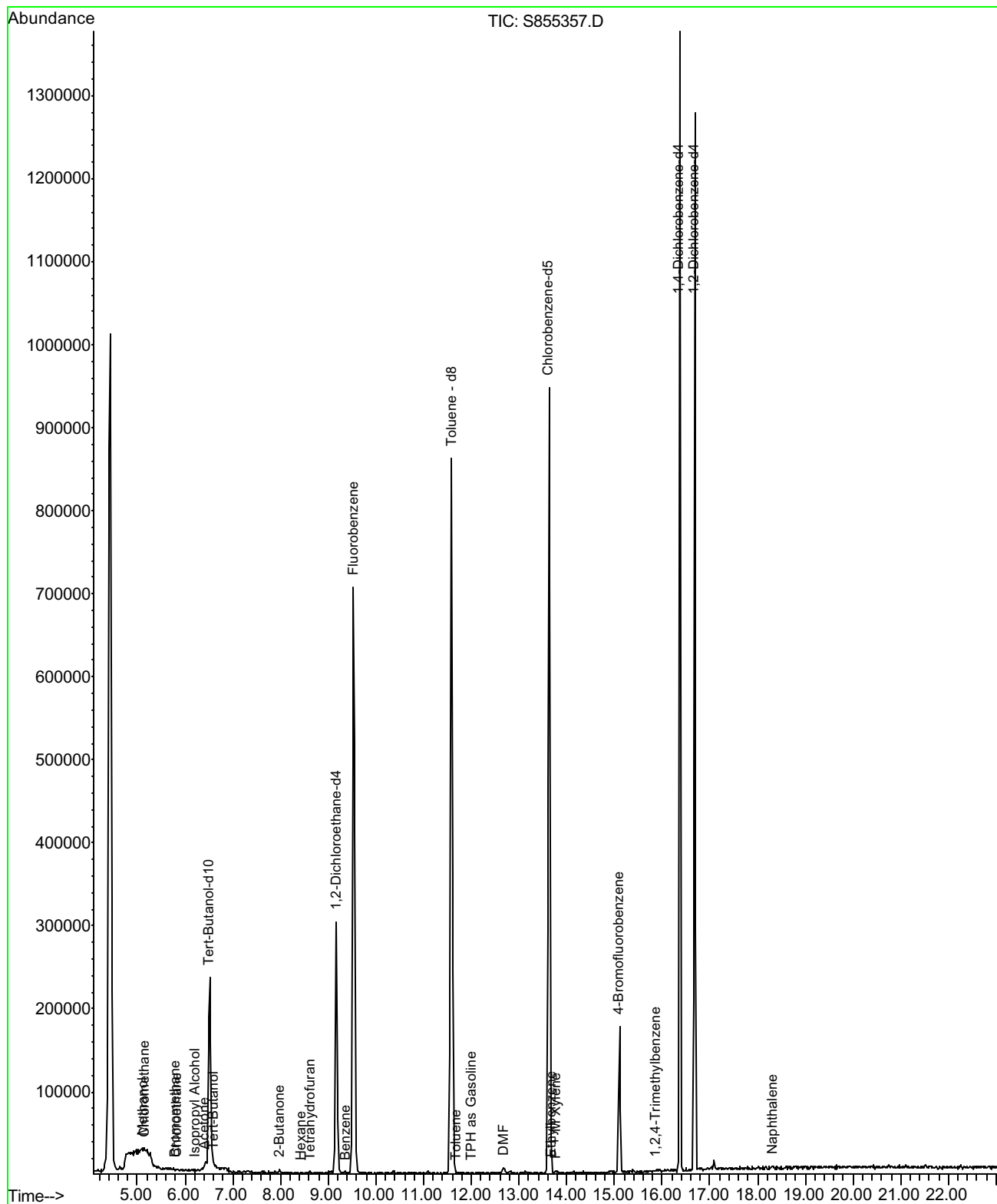
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Date Analyzed : 07/10/08
Data File : D458032
Analysis Method : M EPA 8015



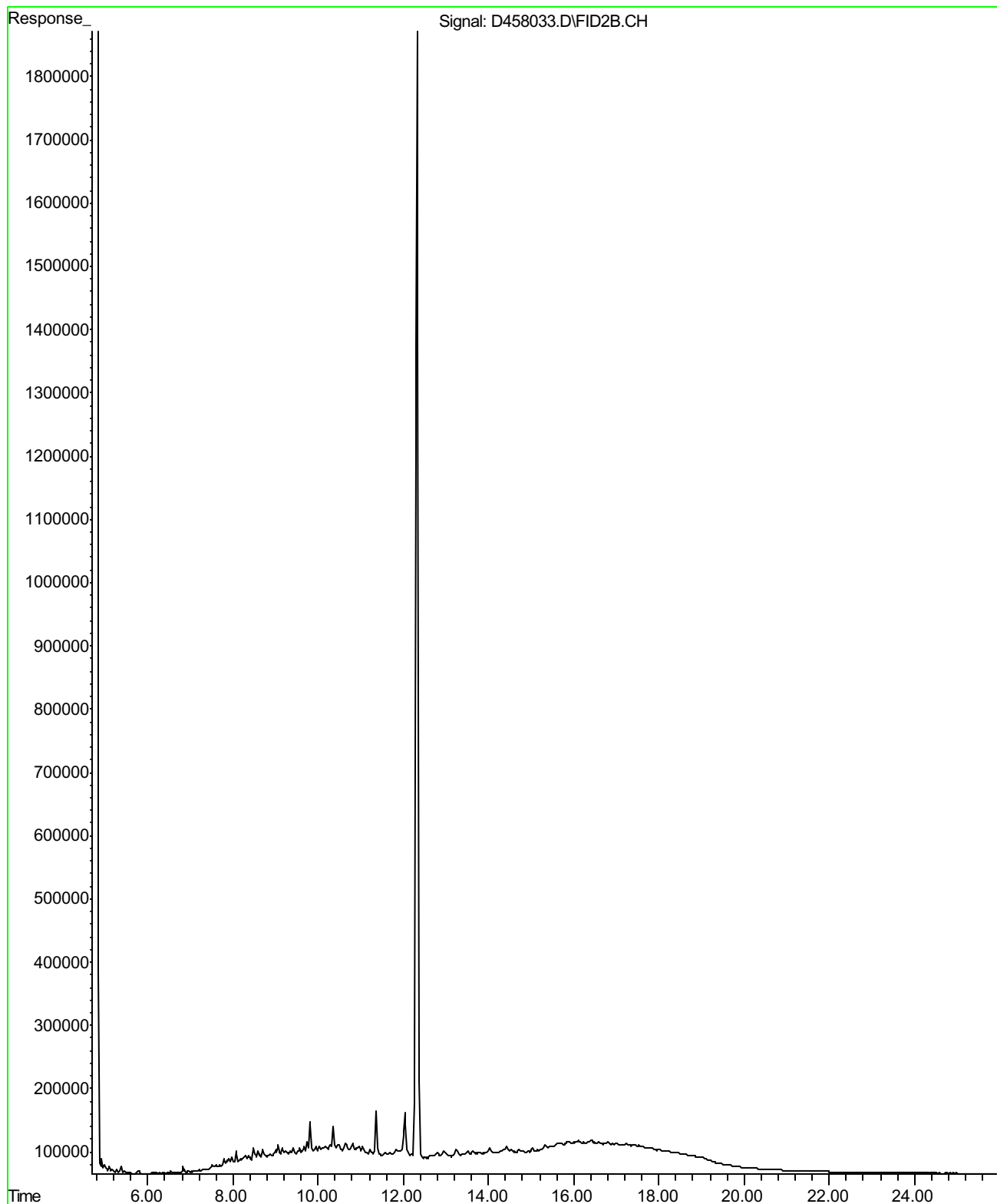
Sample ID : 63600-01 Silica Gel (MW-8)
Date Analyzed : 07/09/08
Data File : D281063
Analysis Method : M EPA 8015



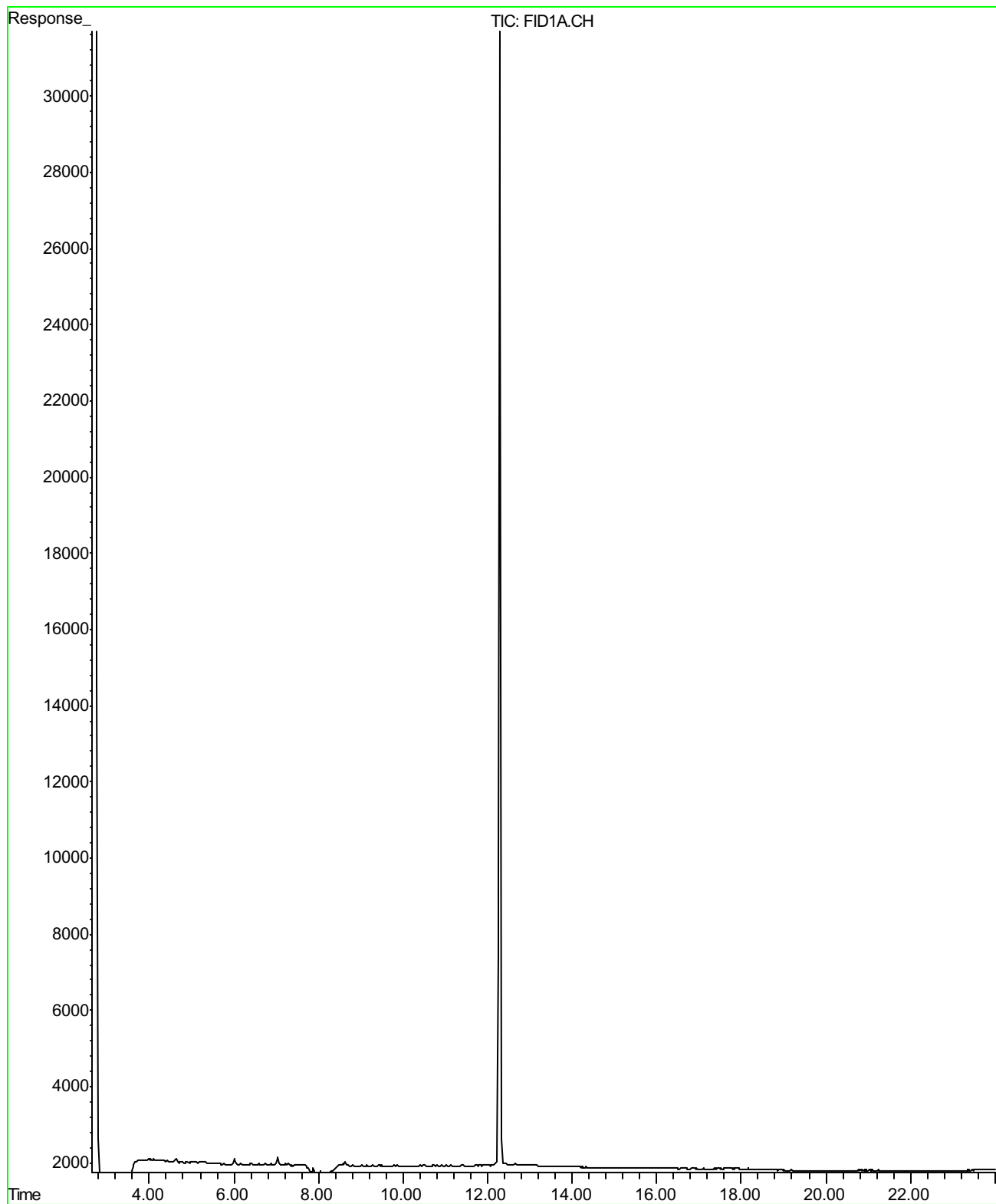
Sample ID : 63600-02 (MW-17)
Date Analyzed : 07/08/08
Data File : S855357
Analysis Method : EPA 8260B



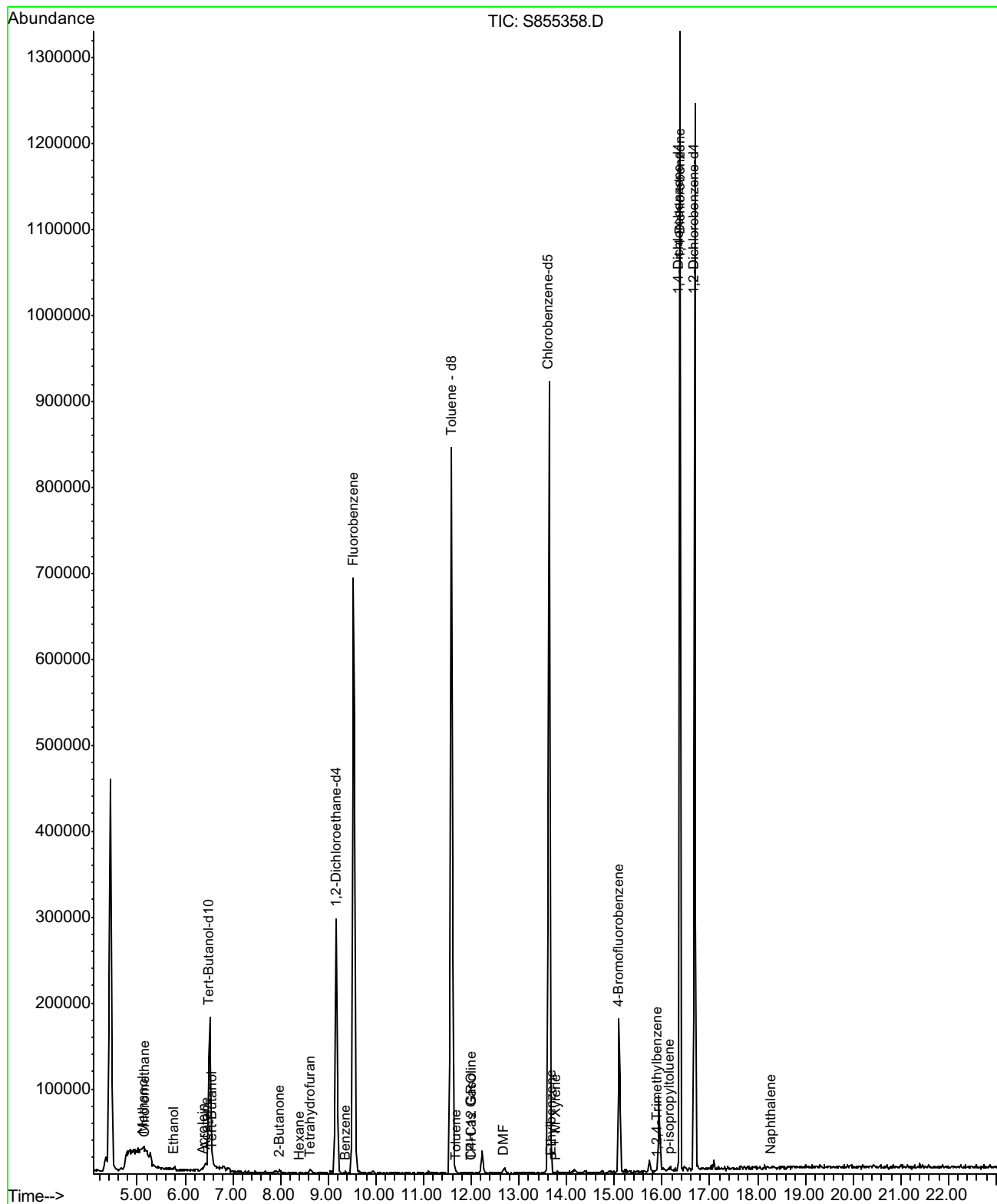
Sample ID : 63600-02 (MW-17)
Date Analyzed : 07/10/08
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Analysis Method : M EPA 8015



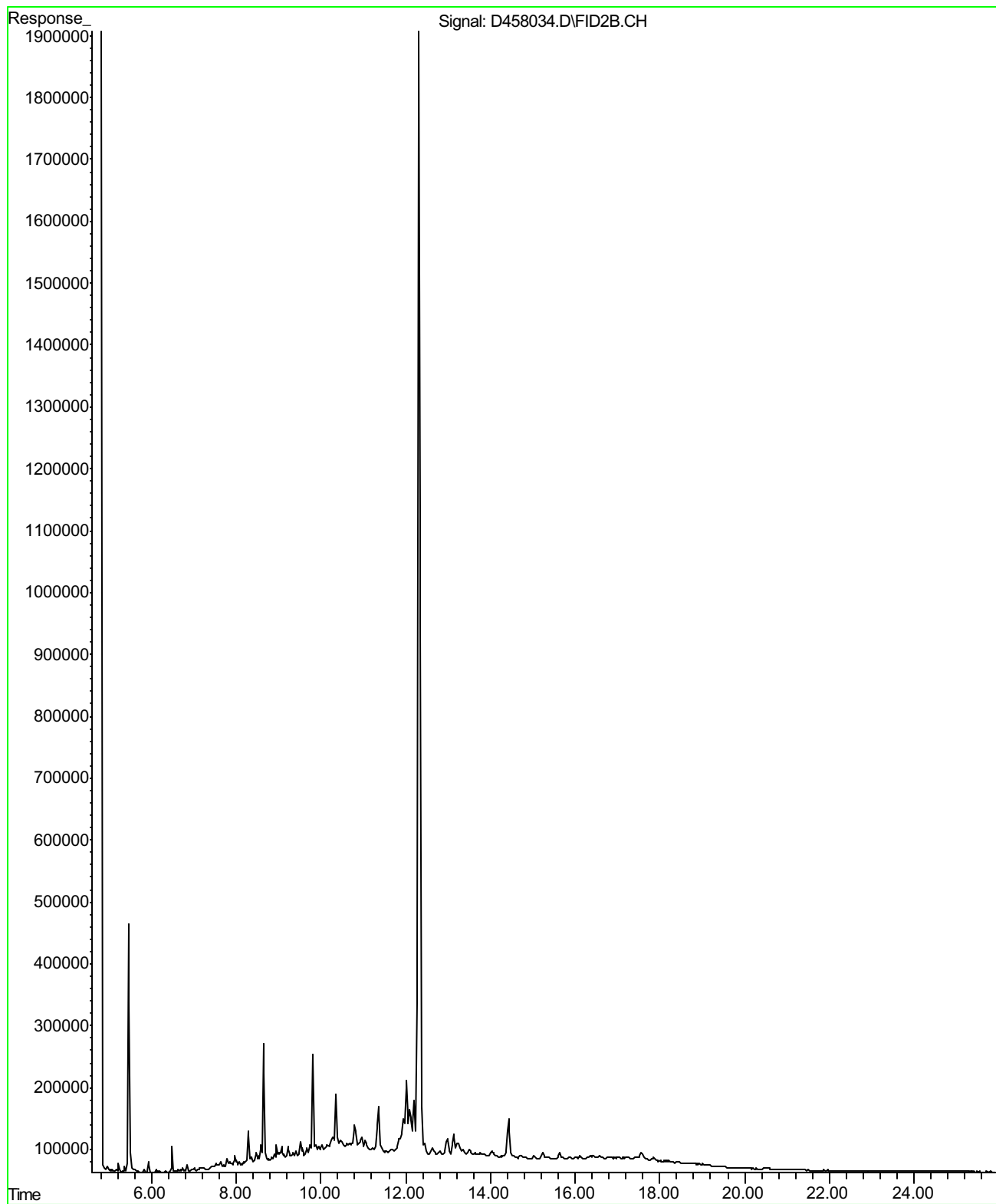
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Date Analyzed : 07/09/08
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Analysis Method : M EPA 8015



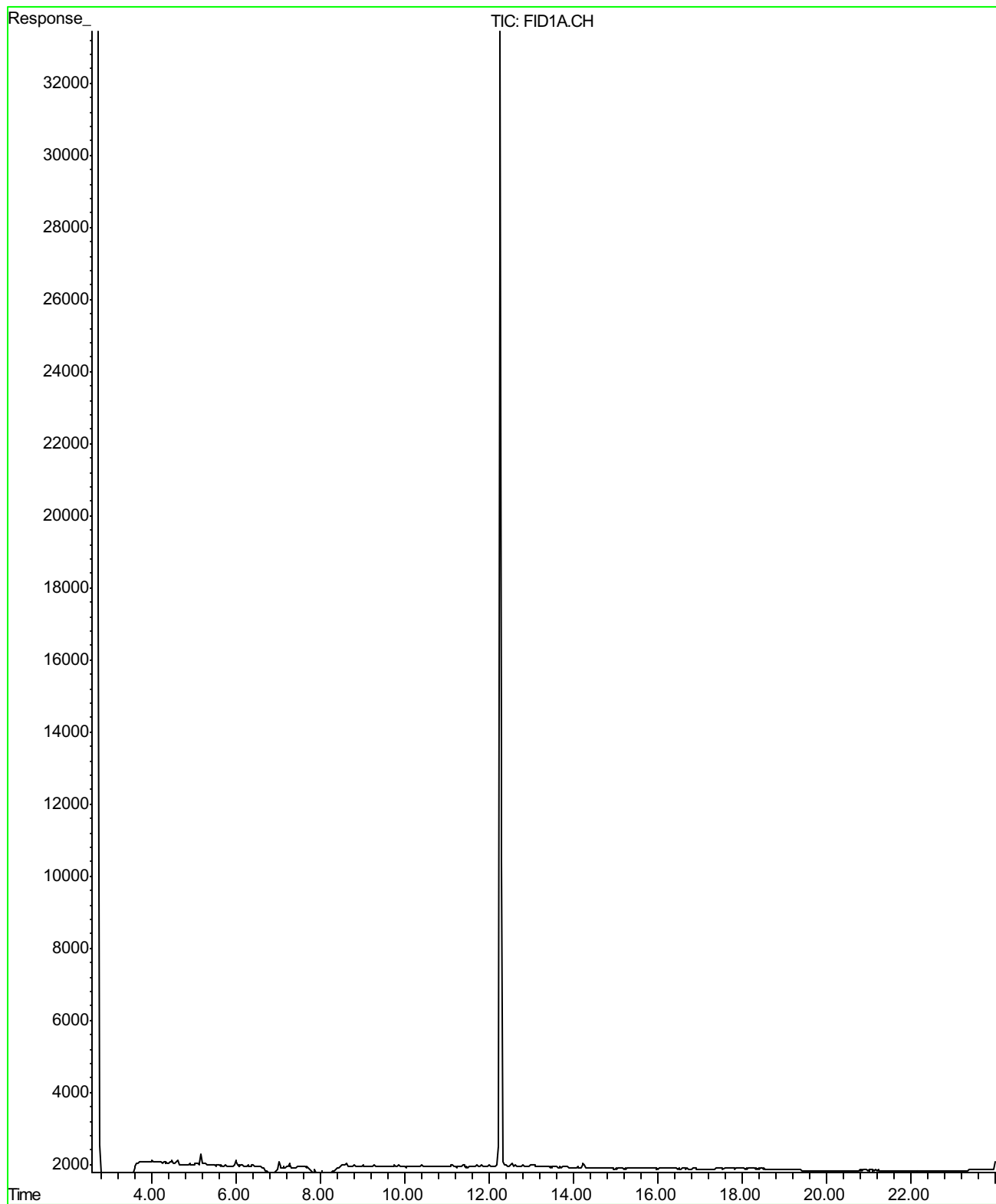
Sample ID : 63600-03 (NPORDMW-3)
Date Analyzed : 07/08/08
Data File : S855358
Analysis Method : EPA 8260B



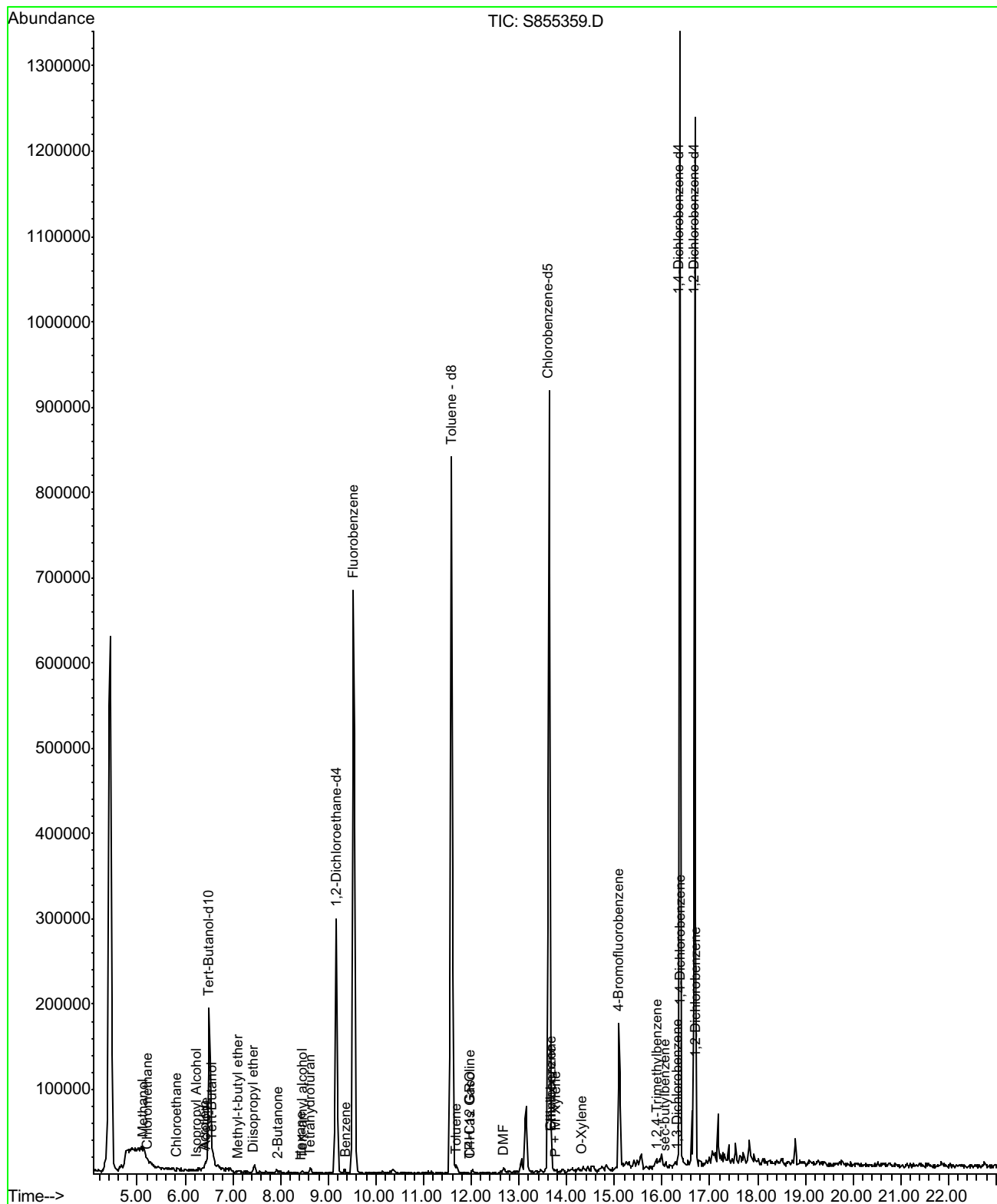
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Date Analyzed : 07/10/08
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Analysis Method : M EPA 8015



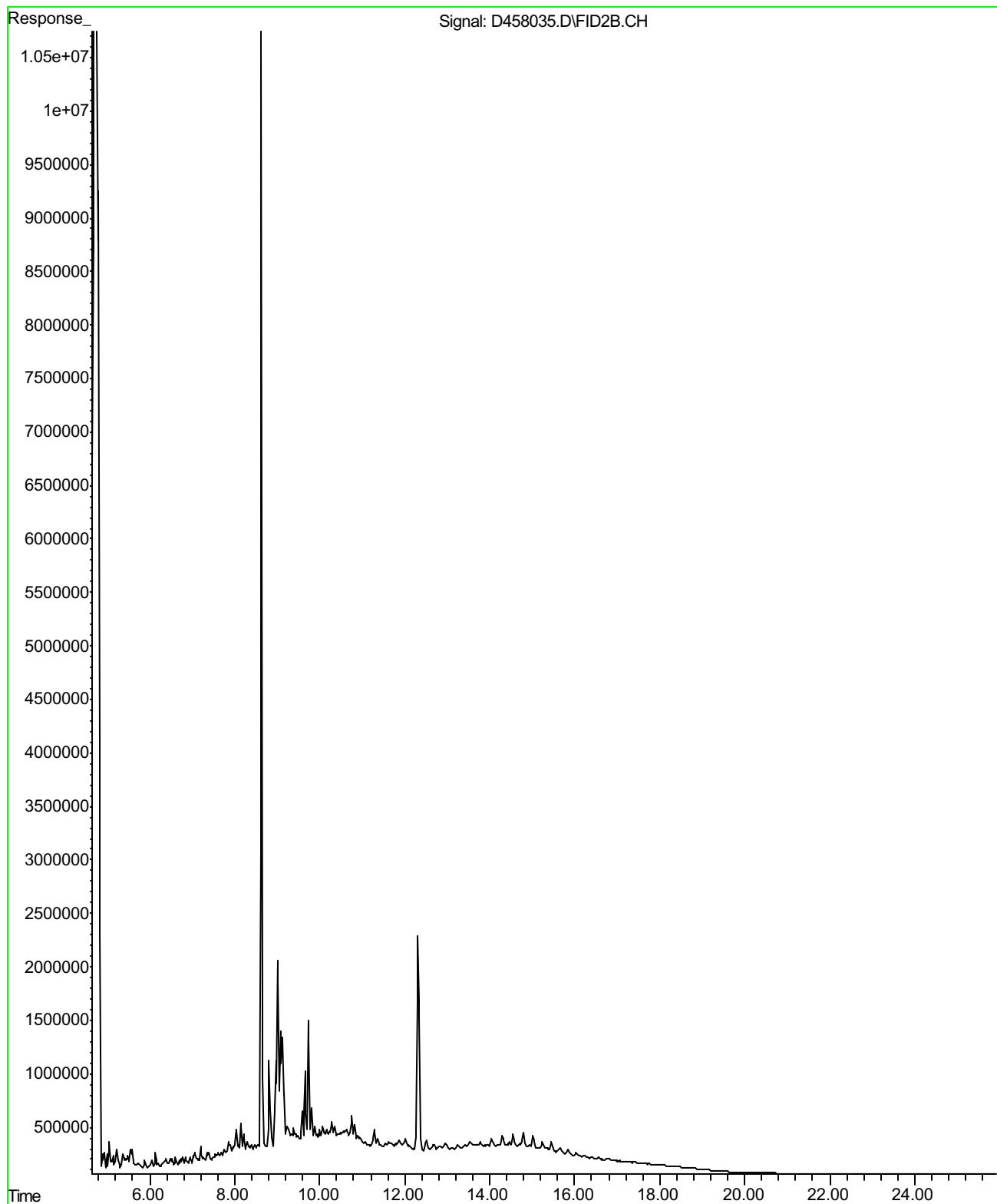
Sample ID : 63600-03 Silica Gel (NPORDMW-3)
Date Analyzed : 07/09/08
Data File : D281060
Analysis Method : M EPA 8015



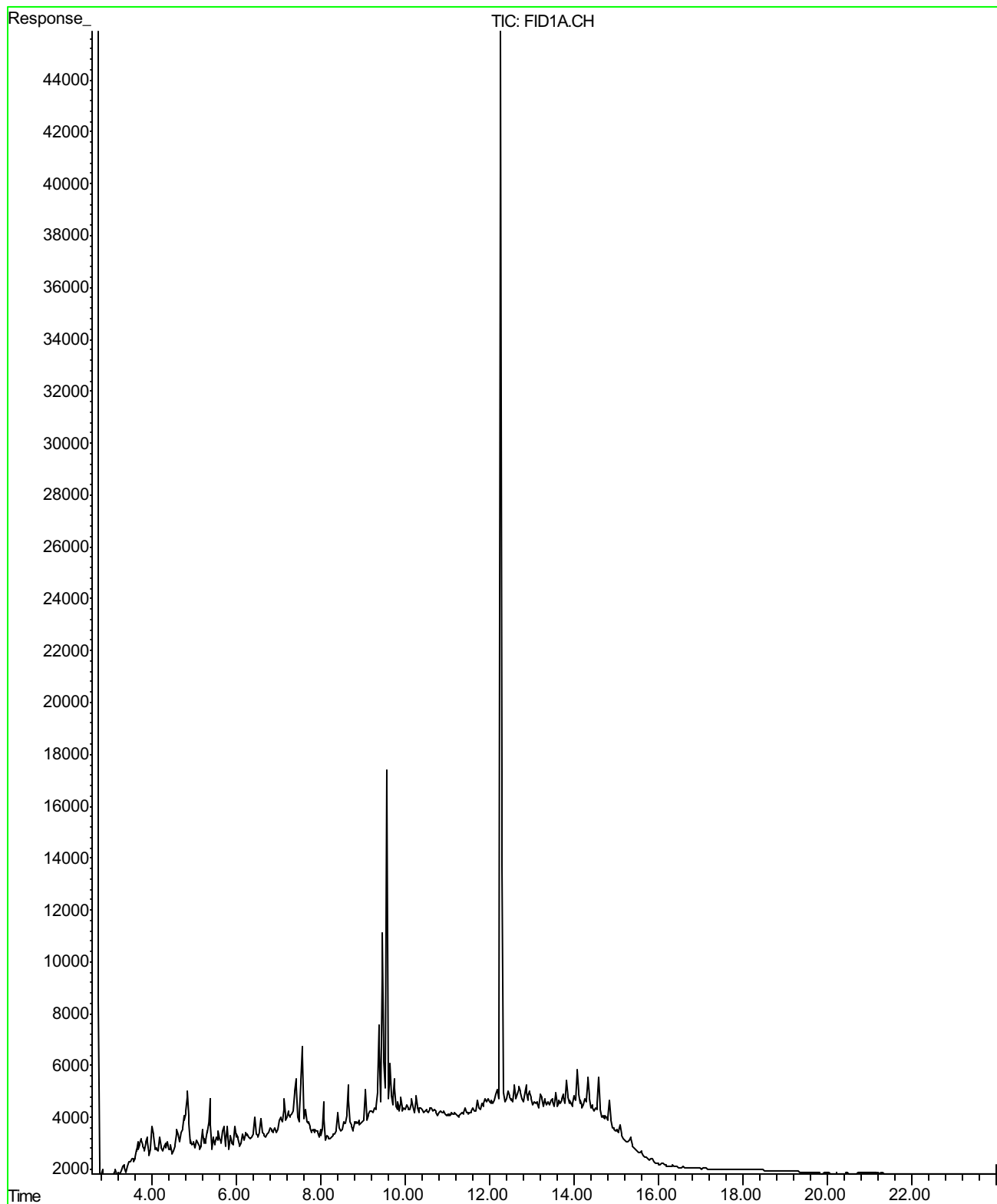
Sample ID : 63600-04 (NPORDMW-4)
Date Analyzed : 07/08/08
Data File : S855359
Analysis Method : EPA 8260B



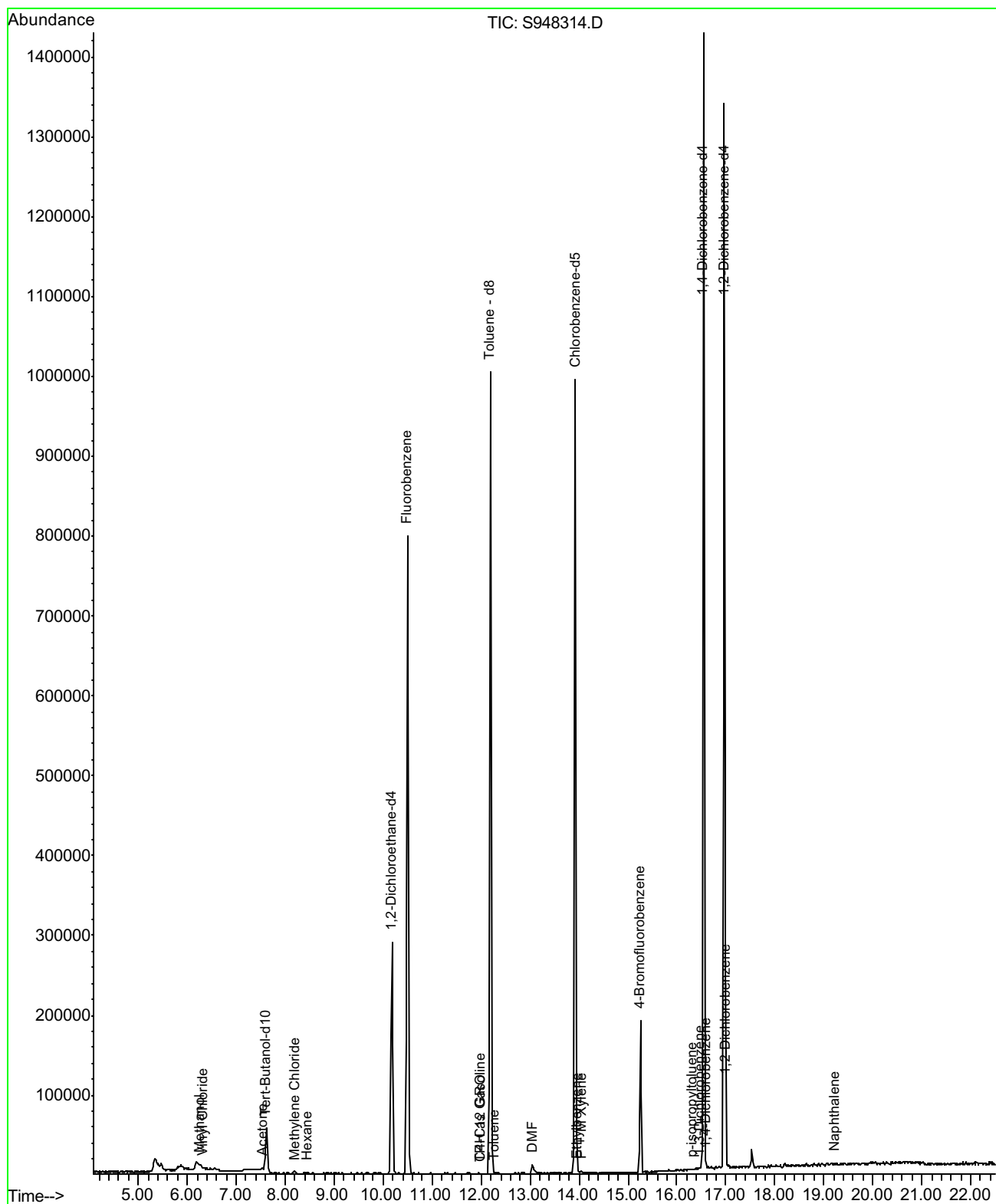
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Date Analyzed : 07/10/08
Data File : D458035
Analysis Method : M EPA 8015



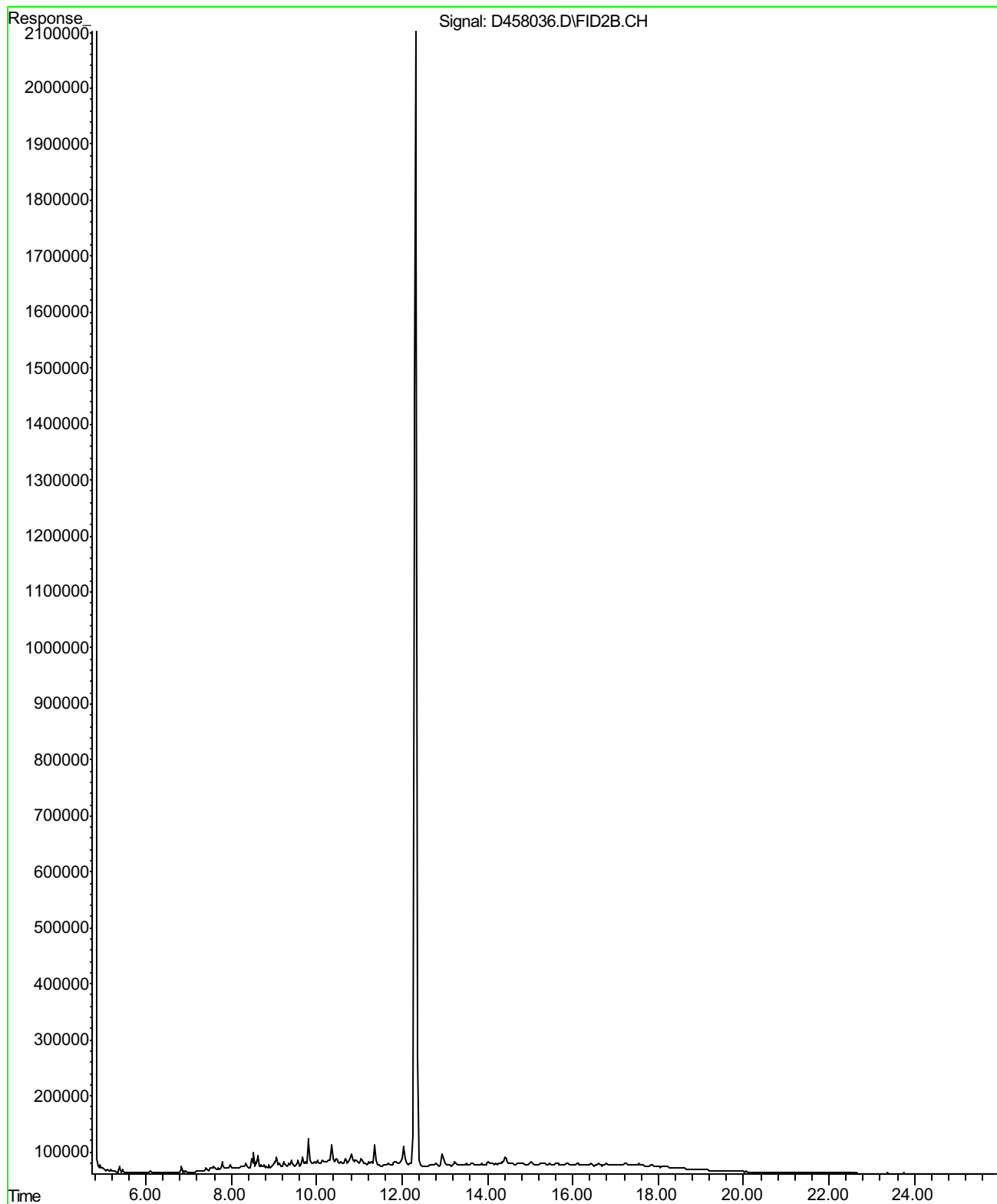
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Date Analyzed : 07/09/08
Data File : D281061
Analysis Method : M EPA 8015



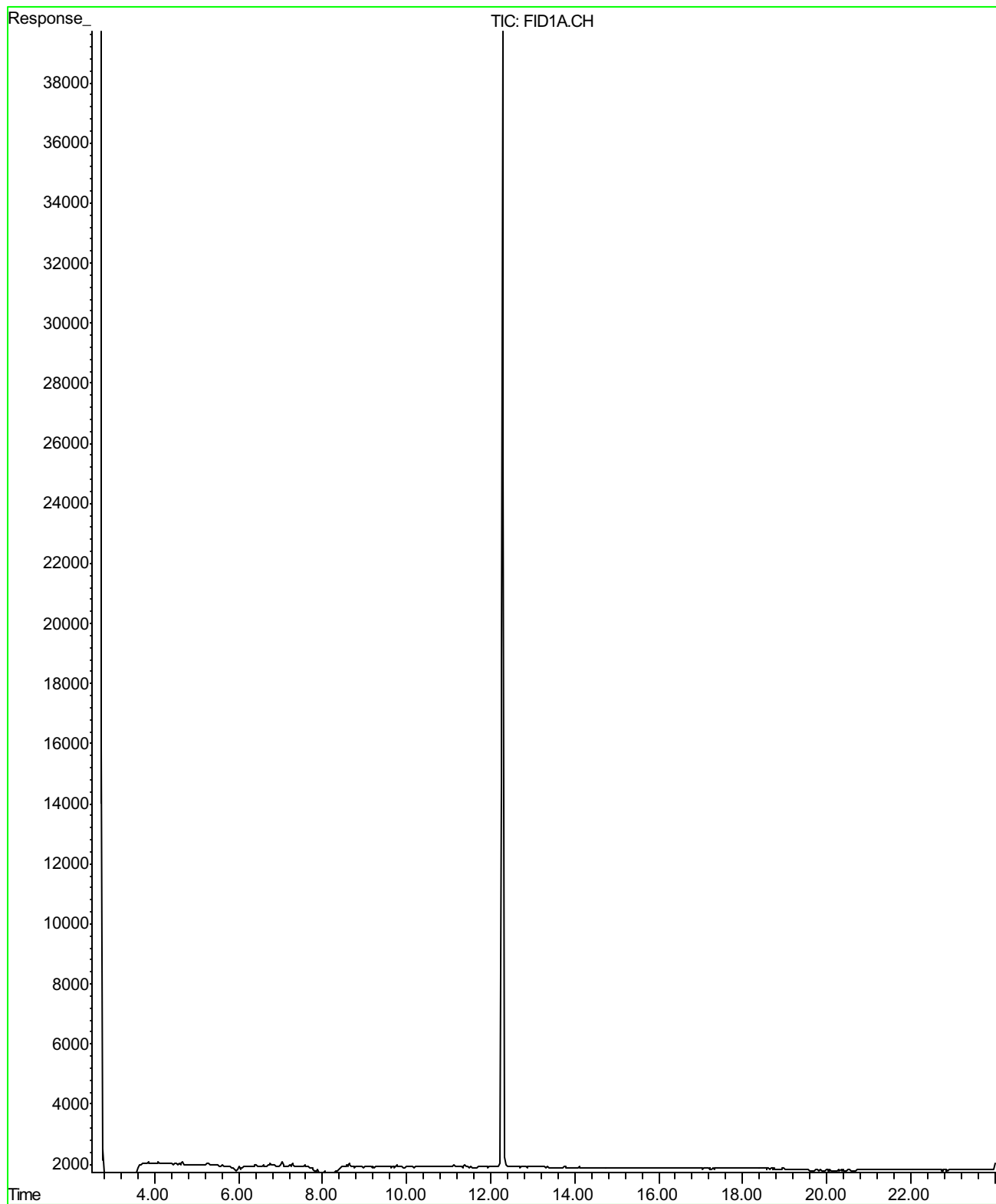
Sample ID : 63600-05 (QA)
Date Analyzed : 07/07/08
Data File : S948314
Analysis Method : EPA 8260B



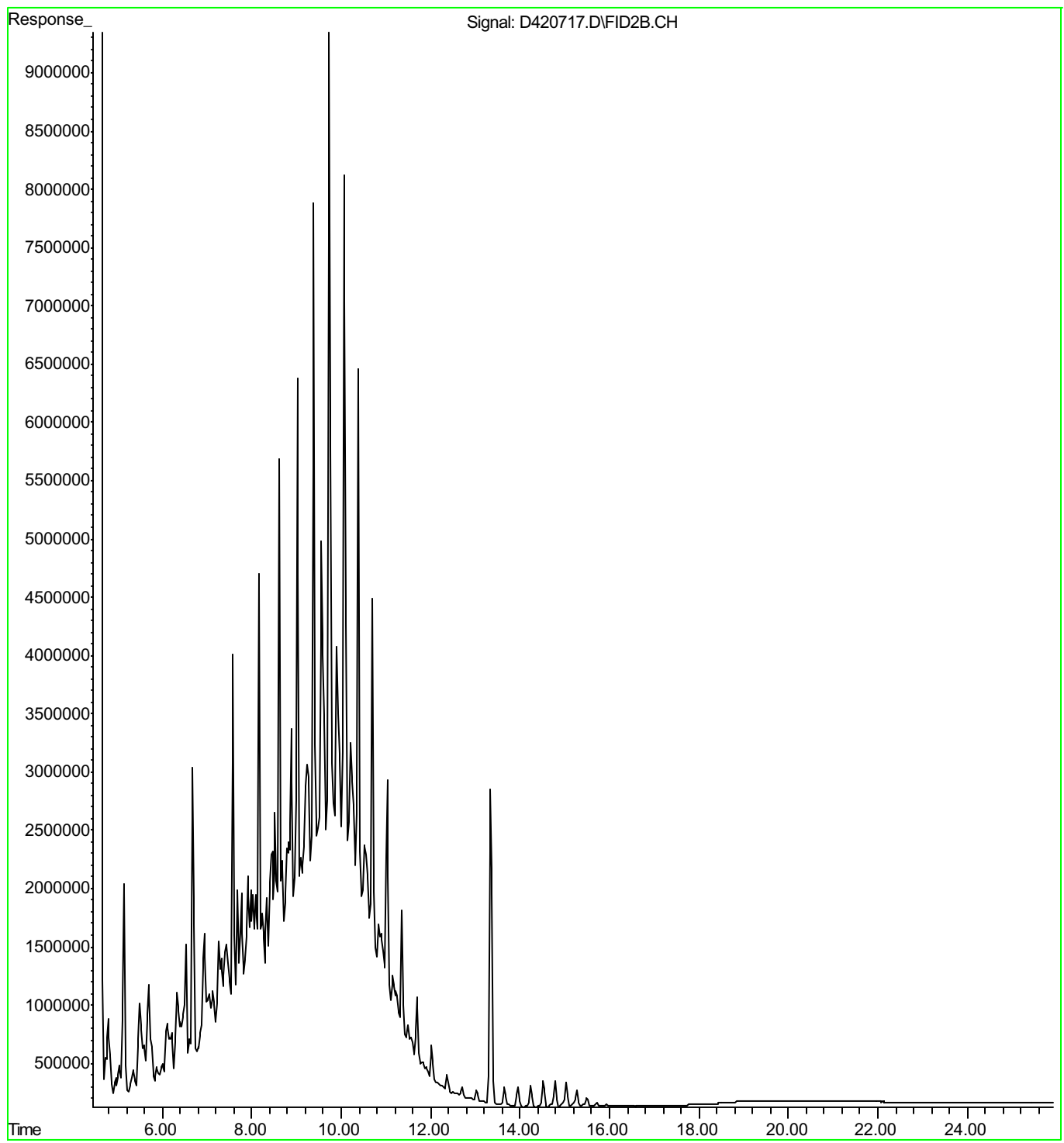
Sample ID : 63600-05 (QA)
Date Analyzed : 07/10/08
Data File : D458036
Analysis Method : M EPA 8015



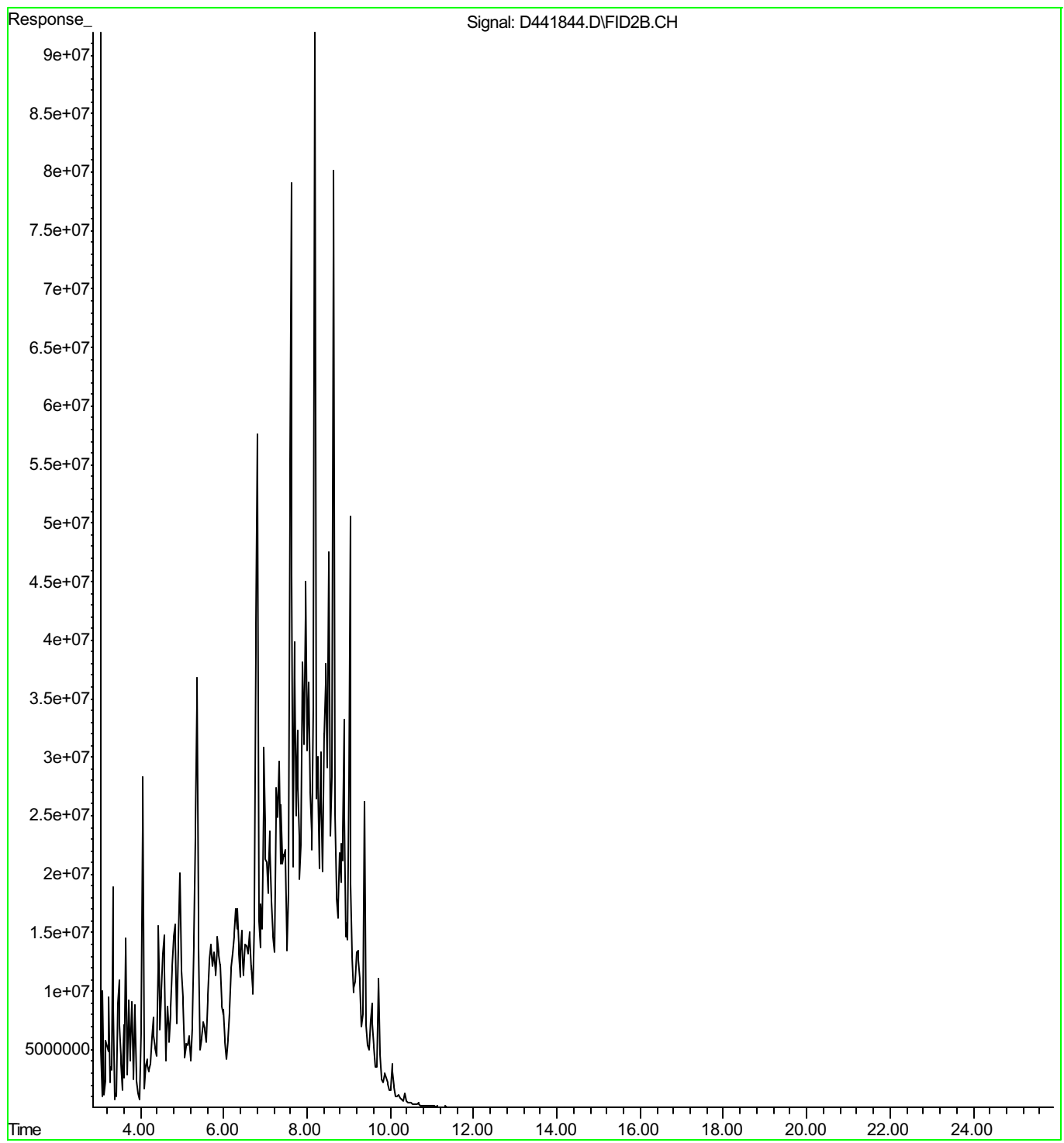
Sample ID : 63600-05 Silica Gel (QA)
Date Analyzed : 07/09/08
Data File : D281062
Analysis Method : M EPA 8015



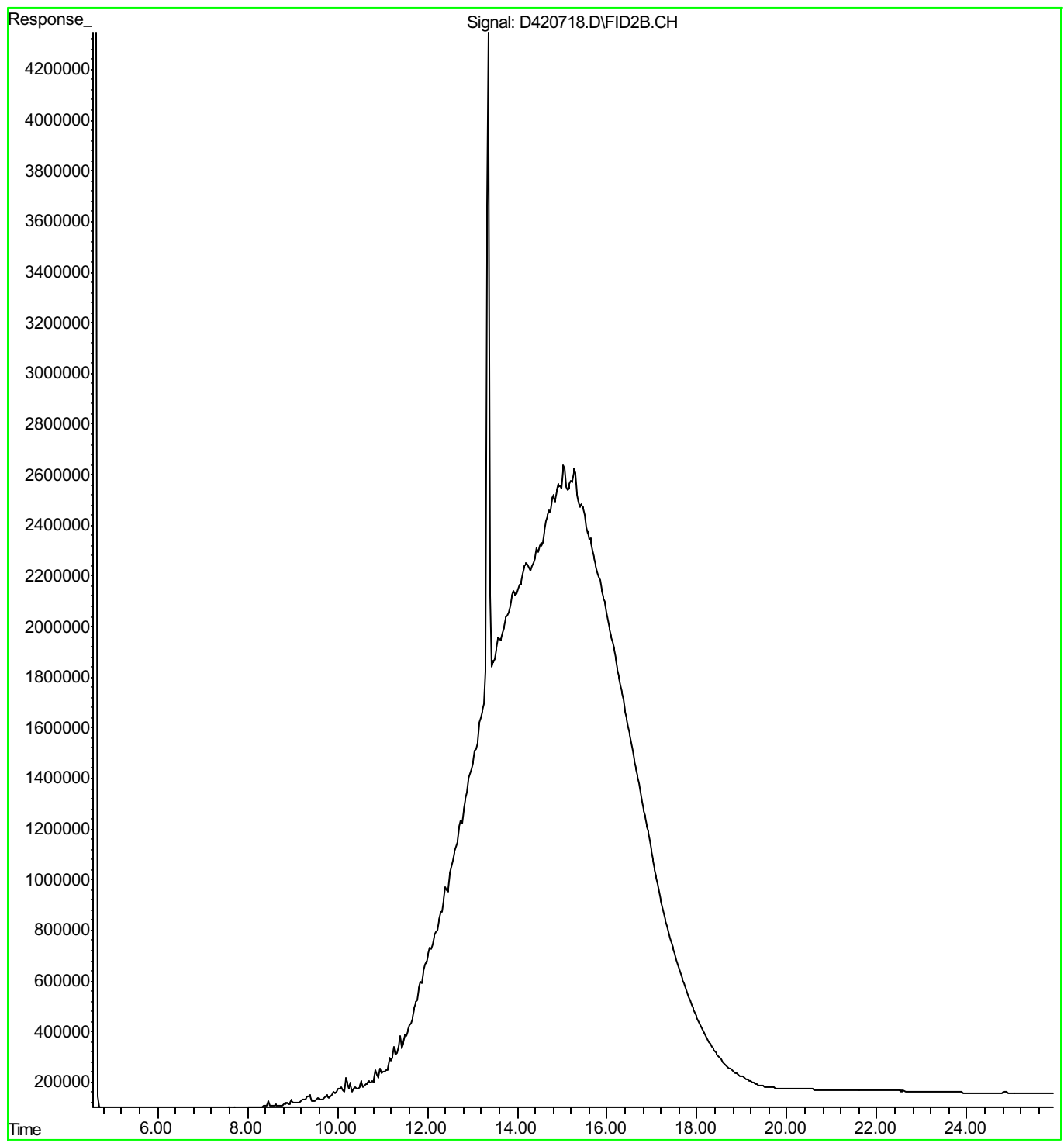
File : C:\DATAFO~1\D420717.D
Operator : CTD
Acquired : 07 Jun 2004 7:54 am using AcqMethod BOTH.M
Instrument : Diesel2
Sample Name: Diesel Standard
Misc Info :
Vial Number: 96



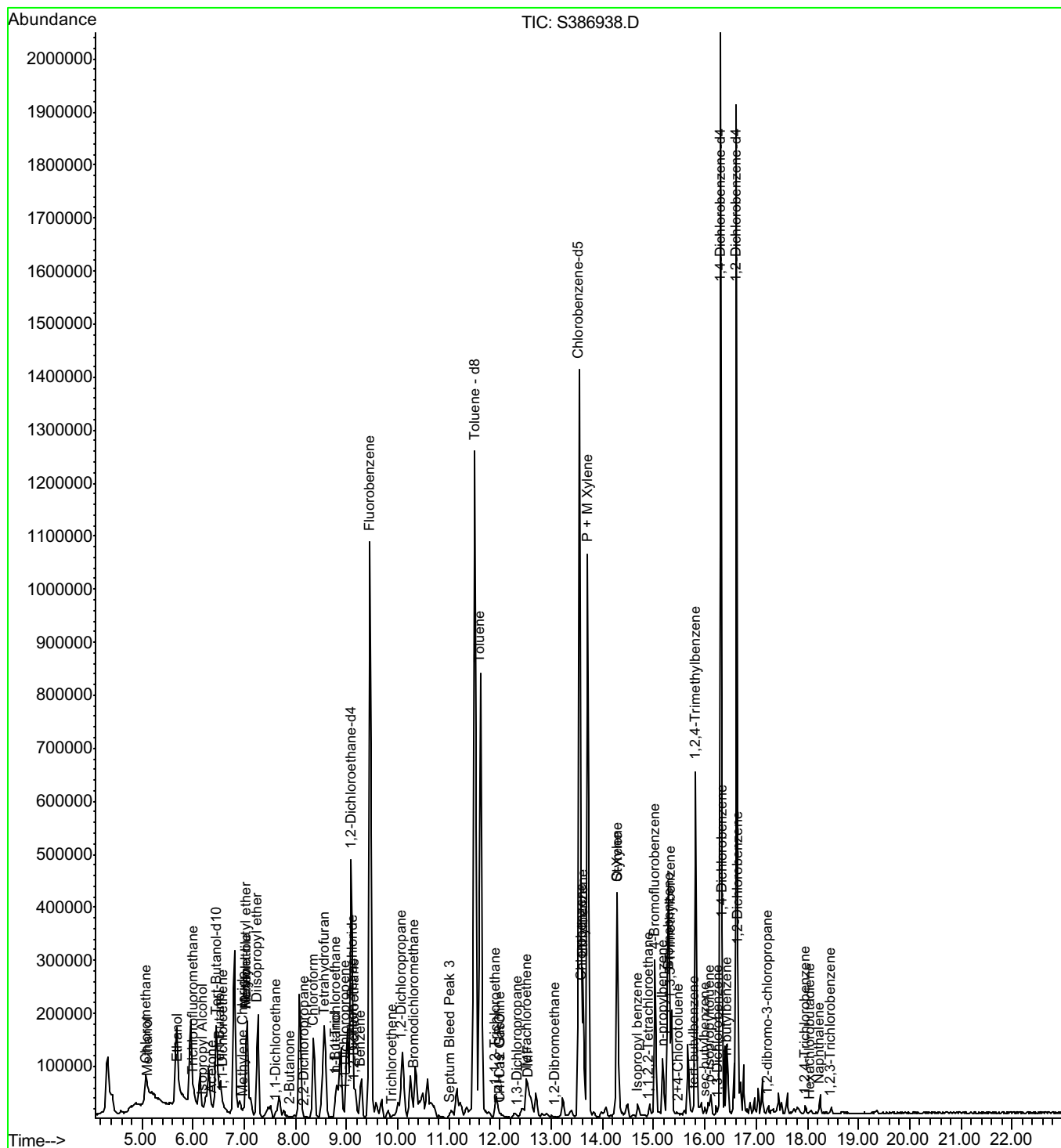
File : C:\DATAFO~1\D441844.D
Operator : DRM
Acquired : 04 Dec 2006 1:34 pm using AcqMethod BOTH.M
Instrument : Diesel #2
Sample Name: Jet Fuel Standard
Misc Info :
Vial Number: 100



File : C:\DATAFO~1\D420718.D
Operator : CTD
Acquired : 07 Jun 2004 8:31 am using AcqMethod BOTH.M
Instrument : Diesel2
Sample Name: Motor Oil Standard
Misc Info :
Vial Number: 97



File : o:\hpchem\S386938.D
 Operator : TTH
 Acquired : 10 Apr 2008 6:38 pm using AcqMethod VOA
 Instrument : GC/MS Ins
 Sample Name: Gasoline Standard
 Misc Info :
 Vial Number: 12



63600

Yes
 No

Chain-of-Custody-Record

Direct Bill To: Geoffrey Risse Gettler-Ryan Inc. 3140 Gold Camp Dr. Rancho Cordova, CA 95670	Facility <u>Rolls-Royce Engine Test Facility</u> Facility Address: <u>6701 Old Earhart Road, Oakland, CA</u> Consultant Project #: <u>25-948218.1</u> Consultant Name: <u>GETTLER-RYAN INC.</u> Address: <u>3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670</u> Project Contact: (Name) <u>Geoffrey Risse</u> e-mail <u>grisse@grinc.com</u> (Phone) <u>916-631-1300x12</u> (Fax) <u>916-631-1317</u>	(Name) <u>Geoffrey Risse</u> (Phone) <u>916-631-1300x12</u> Laboratory Name: <u>Kiff Analytical</u> Laboratory Service Order: _____ Laboratory Service Code: _____ Samples Collected by: (Name) <u>Jim Heron</u> Signature: _____
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Sample I.D.	Number of Containers	Matrix S=Soil A=Air W=Water C=Charcoal	DATE/SAMPLE COLLECTION TIME	State Method: <input checked="" type="checkbox"/> CA <input type="checkbox"/> OR <input type="checkbox"/> WA <input type="checkbox"/> NW				Series <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> ID				Remarks	
				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)						
MW-8	7	W	7/31/08 1220	X	X	X	X					* HCL RINCED OUT, NOW NP M	Lab Sample No. 01
MW-17	7	W	0950	X	X	X	X						02
NPORD MW-3	7	W	1310	X	X	X	X						03
NPORD MW-4	7	W	1110	X	X	X	X					* HCL RINCED OUT, NOW NP M	04
QA	2	W	07-03-08	X	X	X	X						05

SAMPLE RECEIPT
 Temp °C 1.8 Therm. ID# IR-1
 Initial RLM Date 070708
 Time 1400 Coolant present: Yes/No

Relinquished By (Signature) 	Organization <u>G-R Inc</u>	Date/Time <u>7/31/08</u> <u>16W</u>	Received By (Signature) 	Organization <u>G-R INC</u>	Date/Time <u>07-07-08</u> <u>1110</u>	Iced (Y/N)	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) 	Organization <u>G-R INC</u>	Date/Time <u>07-07-08</u> <u>1110</u>	Received By (Signature) _____	Organization _____	Date/Time _____	Iced (Y/N)	
Relinquished By (Signature) _____	Organization _____	Date/Time _____	Received For Laboratory By (Signature) <u>Rozmarie Kiff Analytical</u>	Organization <u>Kiff Analytical</u>	Date/Time <u>070708</u> <u>1115</u>	Iced <u>(Y)</u> N	