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DRAFT CANAL SEDIMENT INVESTIGATION SUMMARY
FOR
THE FORMER CRAWFORD STATION

CHICAGO, ILLINOIS

Prepared for:

THE PEOPLES GAS
LIGHT and COKE COMPANY

Prepared by:

Burns & McDonnell Engineering
Company, Inc.
1431 Opus Place, Suite 400
Downers Grove, Illinois 60515-1164
630-724-3200

PROJECT NO. 39180
April 2007

This draft canal sediment investigation (Canal SI) summary presents a figure, TarGOST™ logs, boring logs, photographs and forensic analytical results collected in the Chicago Sanitary and Ship Canal (Canal), adjacent to the former Crawford Station property (Site). The Canal SI activities were conducted in February and March 2007.

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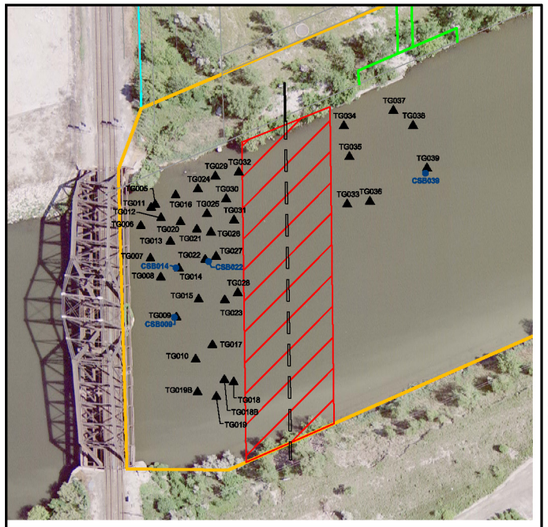
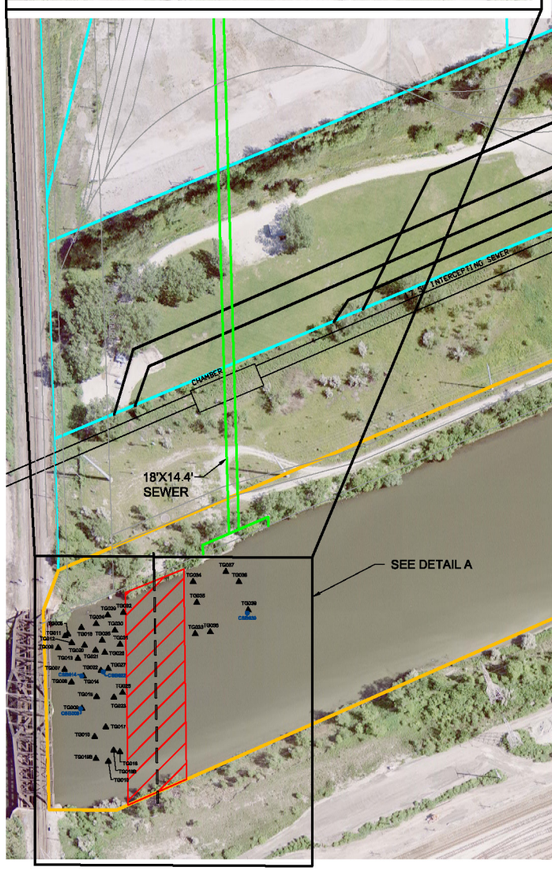
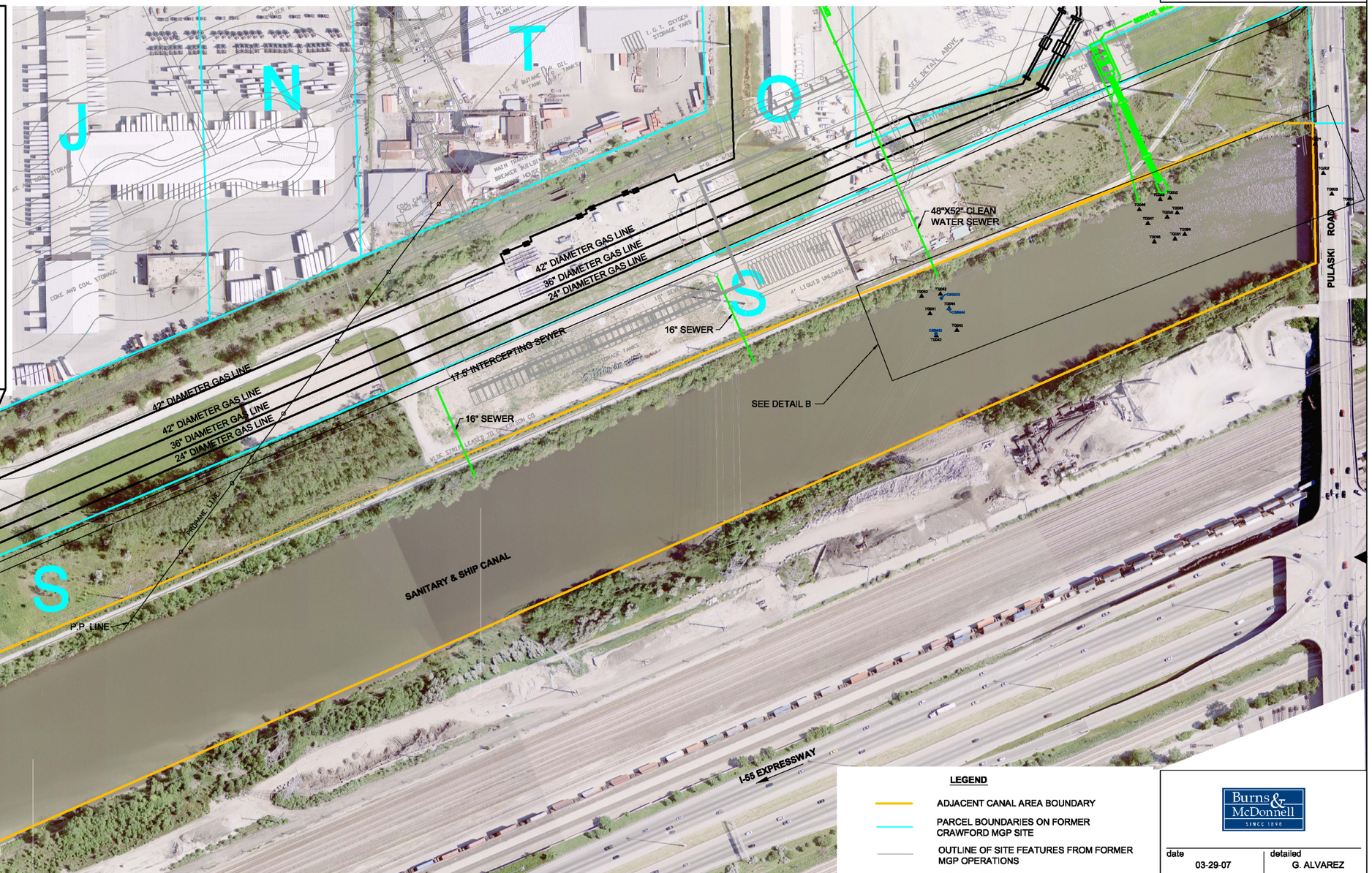
CANAL SEDIMENT INVESTIGATION
FIGURE

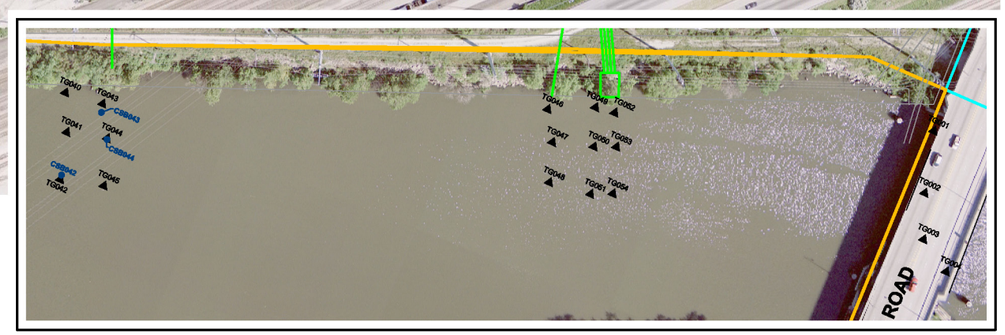
no.	date	by	ckd	description

DETAIL A









DETAIL B

LEGEND

- ADJACENT CANAL AREA BOUNDARY
- PARCEL BOUNDARIES ON FORMER CRAWFORD MGP SITE
- OUTLINE OF SITE FEATURES FROM FORMER MGP OPERATIONS
- SEWER LOCATION
- GAS MAIN LOCATION
- 42" GAS MAIN LOCATION
- TG003 ▲ TARGOST™ SEDIMENT SAMPLING LOCATION
- CSB014 ● CANAL SEDIMENT BORING LOCATION
- SETBACK ZONE (50' ON EITHER SIDE OF 42" GAS MAIN)

NORTH

120 0 120 240
SCALE IN FEET

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Burns & McDonnell SINCE 1898

date	detailed
03-29-07	G. ALVAREZ
designed	checked
J. BLAIZER	

THE PEOPLES GAS LIGHT AND COKE COMPANY CHICAGO, ILLINOIS

Figure 1
SAMPLE LOCATION MAP
FORMER CRAWFORD STATION
CHICAGO, ILLINOIS

project | contract

drawing | rev.

sheet 1 of 1 sheets

file I:\PEOPLES\...\CRAWFORD\CAD\BID\RIVER INVESTIGATION\COMB LOCATION

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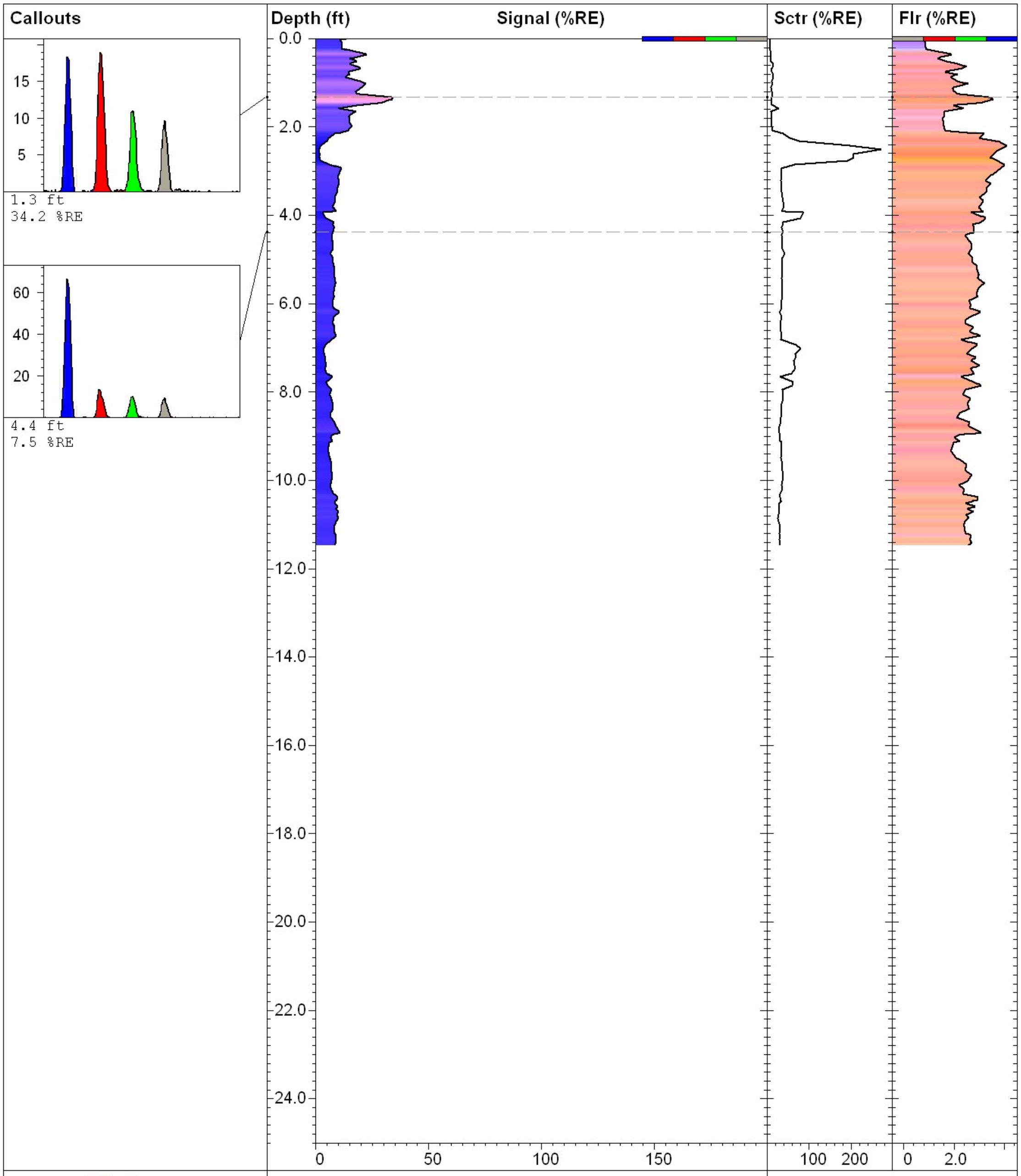
CANAL SEDIMENT INVESTIGATION
TarGOST™ LOGS



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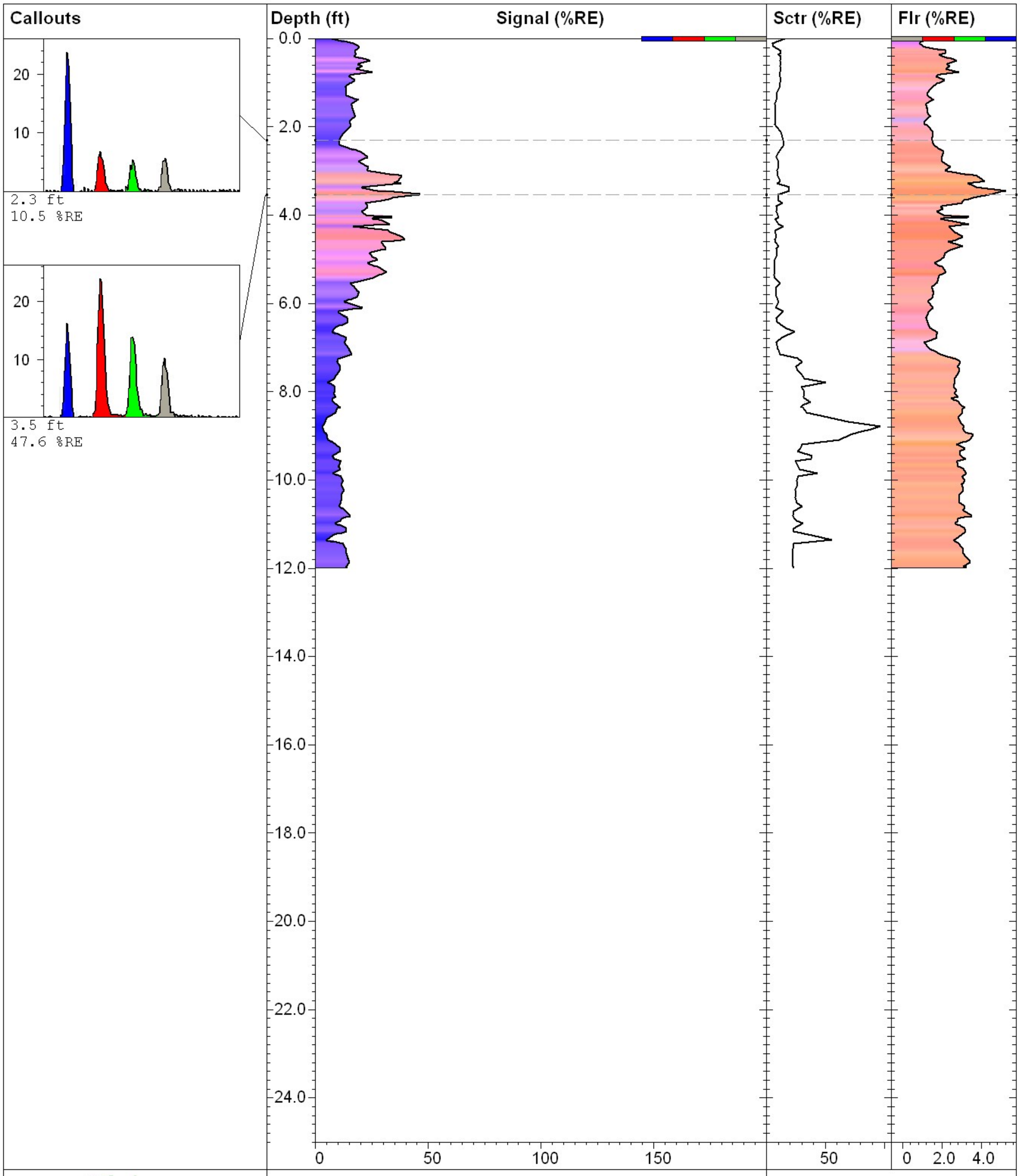
CRAW_TG001		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.548290 N / NAD83**	*Final depth:* **11.48 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.461233 W**	*Max signal:* **34.2 % @ 1.32 ft**
Job:	*Operator/Unit:* **T.Rudolph/DTI02**	*Date & Time:* **2/21/2007 10:22:19 AM**



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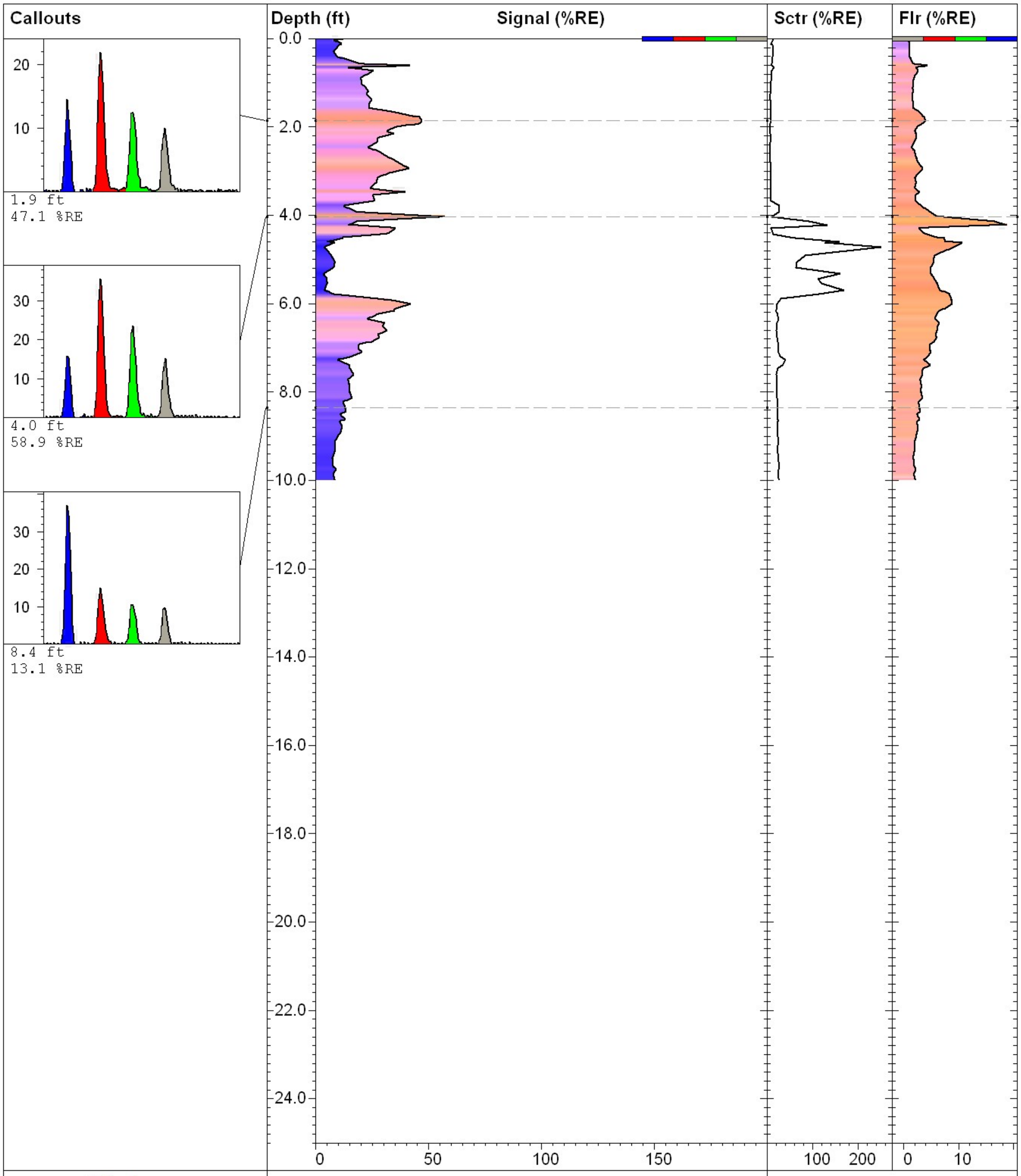
CRAW_TG002		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.542376 N / NAD83**	*Final depth:* **12.01 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.459350 W**	*Max signal:* **47.6 % @ 3.53 ft**
Job:	*Operator/Unit:* **T.Rudolph/DTI02**	*Date & Time:* **2/21/2007 11:19:47 AM**



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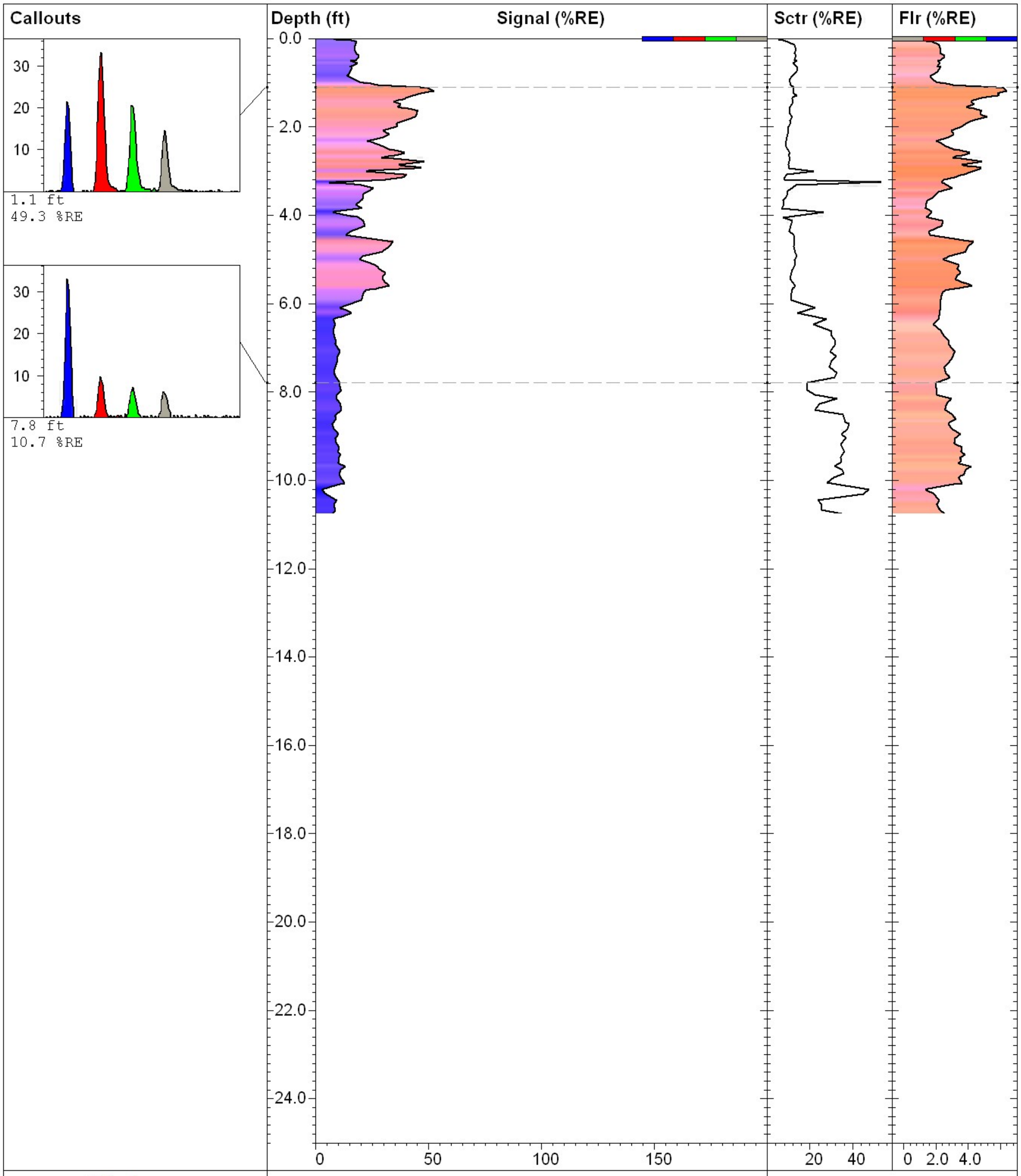
CRAW_TG003		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **Unavailable / NAD83**	*Final depth:* **10.00 ft**
Client: **Burns & McDonnell**	*Longitude:* **Unavailable**	*Max signal:* **58.9 % @ 4.03 ft**
Job:	*Operator/Unit:* **T.Rudolph/DTI02**	*Date & Time:* **2/21/2007 12:18:46 PM**



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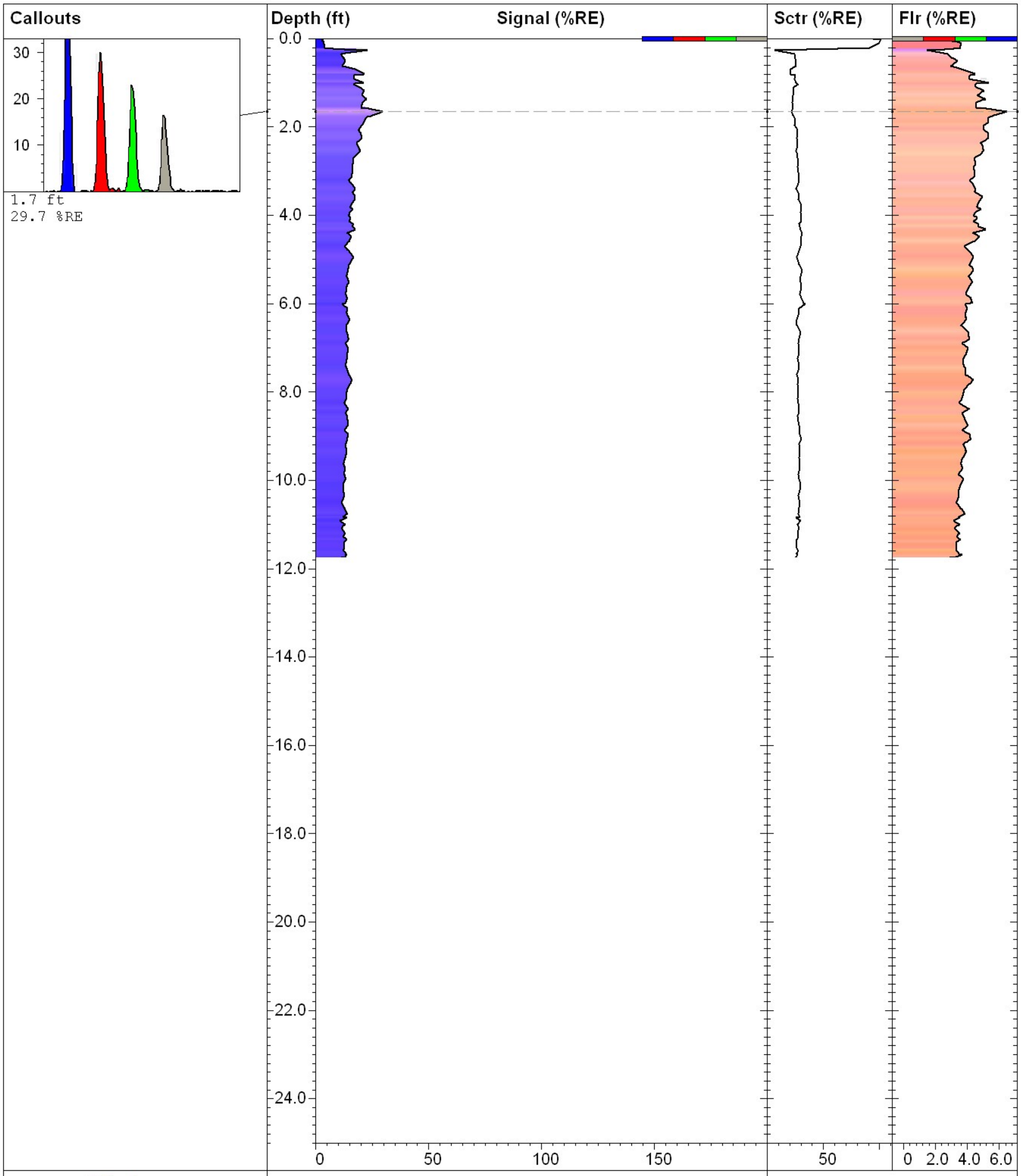
CRAW_TG004		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.532275 N / NAD83**	*Final depth:* **10.76 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.437021 W**	*Max signal:* **52.3 % @ 1.19 ft**
Job:	*Operator/Unit:* **T.Rudolph/DTI02**	*Date & Time:* **2/21/2007 1:24:02 PM**



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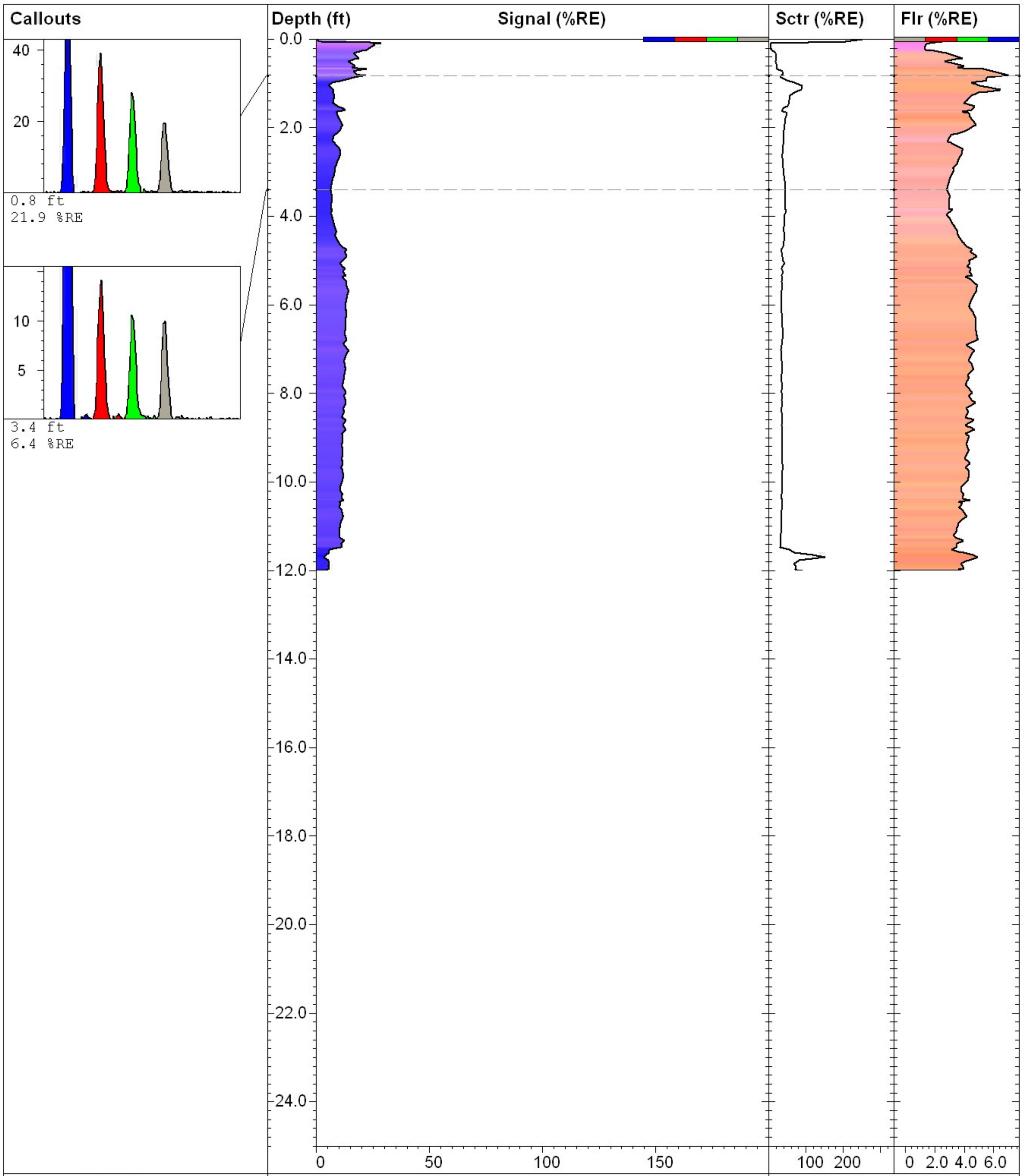
CRAW_TG005		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.283808 N / NAD83**	*Final depth:* **11.75 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.304520 W**	*Max signal:* **29.7 % @ 1.65 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/26/2007 12:28:56 PM**



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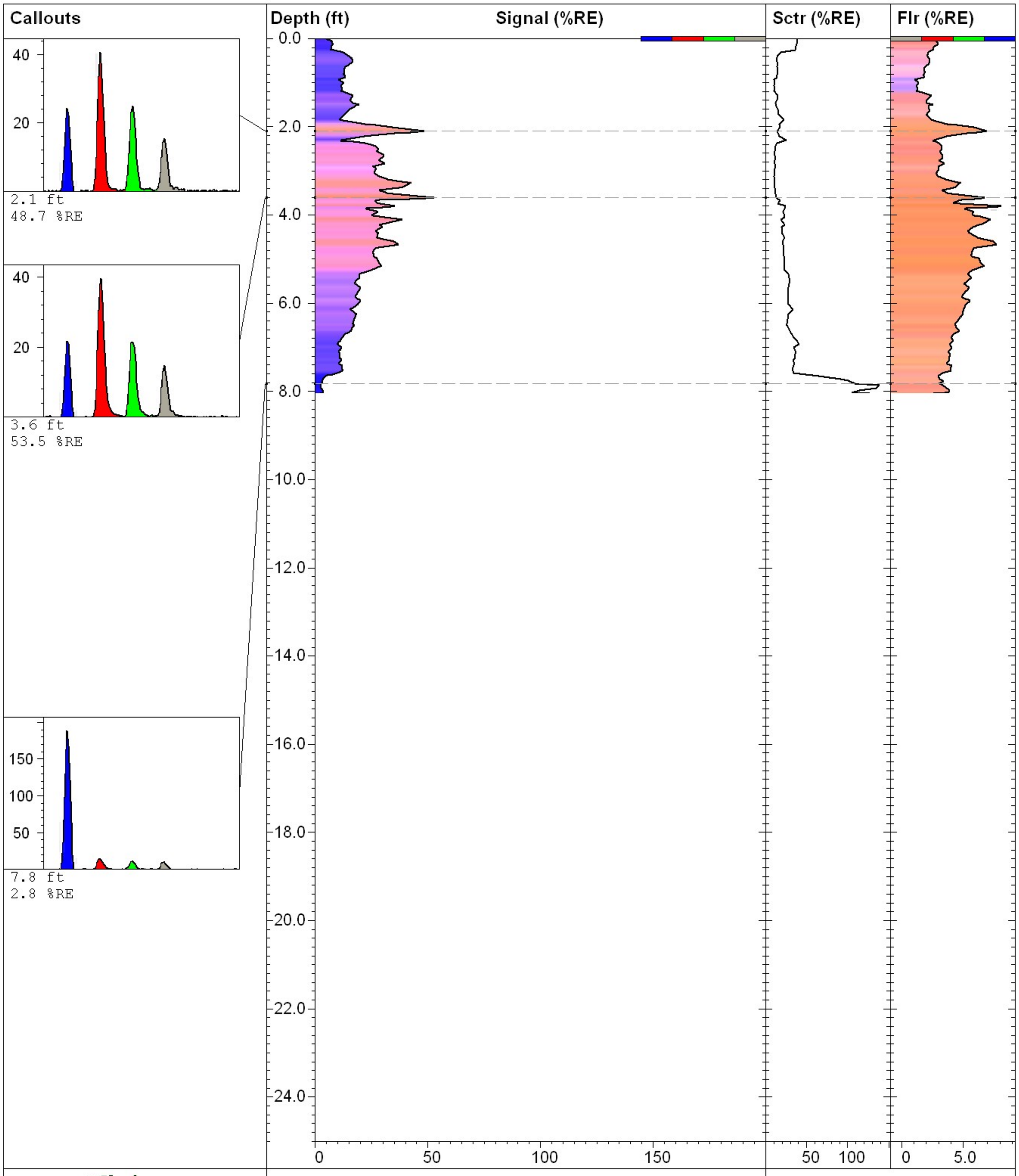
CRAW_TG006		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.279905 N / NAD83**	*Final depth:* **12.01 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.308127 W**	*Max signal:* **32.9 % @ 0.09 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/26/2007 1:26:25 PM**



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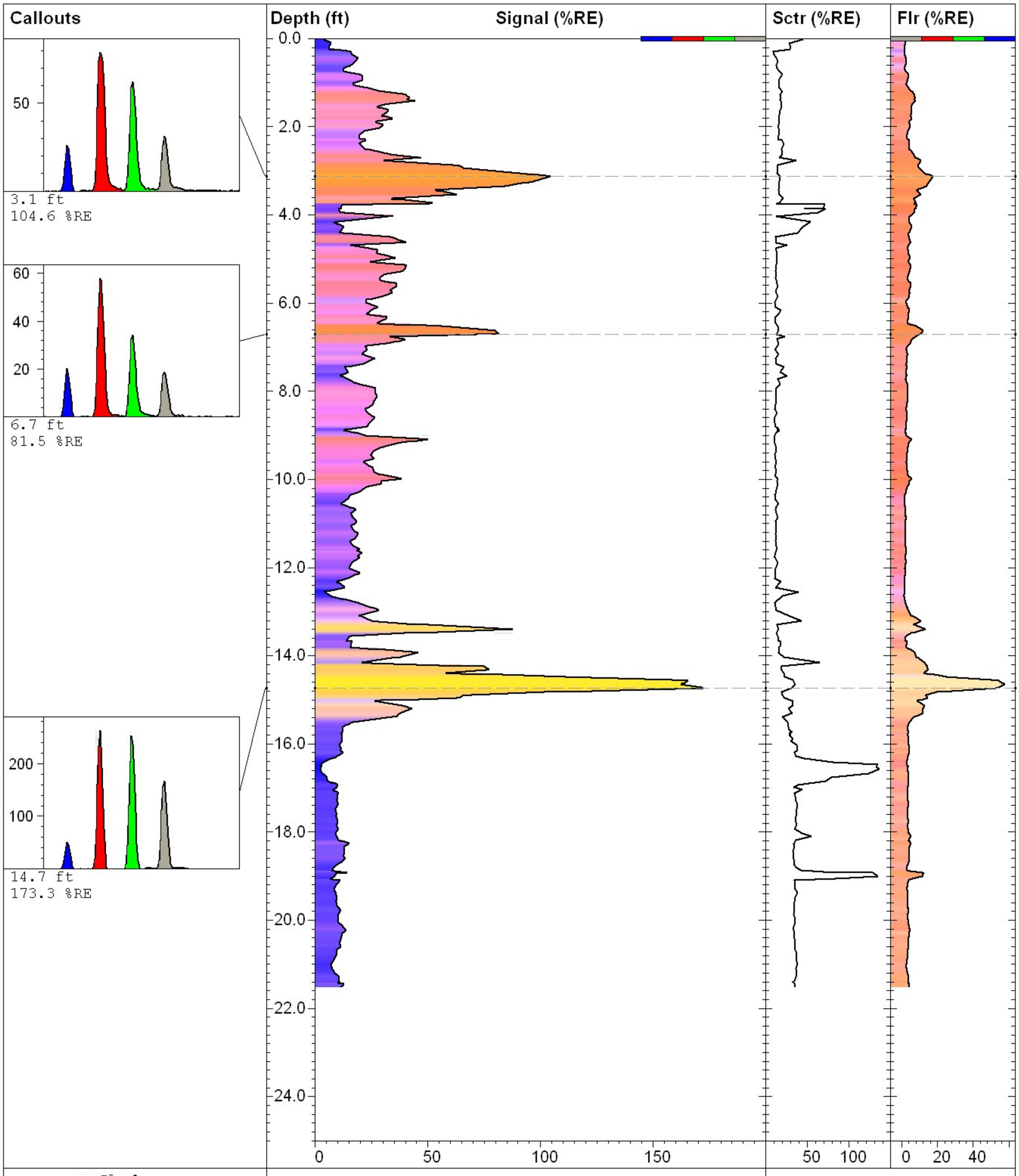
CRAW_TG007		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.273838 N / NAD83**	*Final depth:* **8.05 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.305841 W**	*Max signal:* **53.5 % @ 3.61 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/26/2007 2:06:53 PM**



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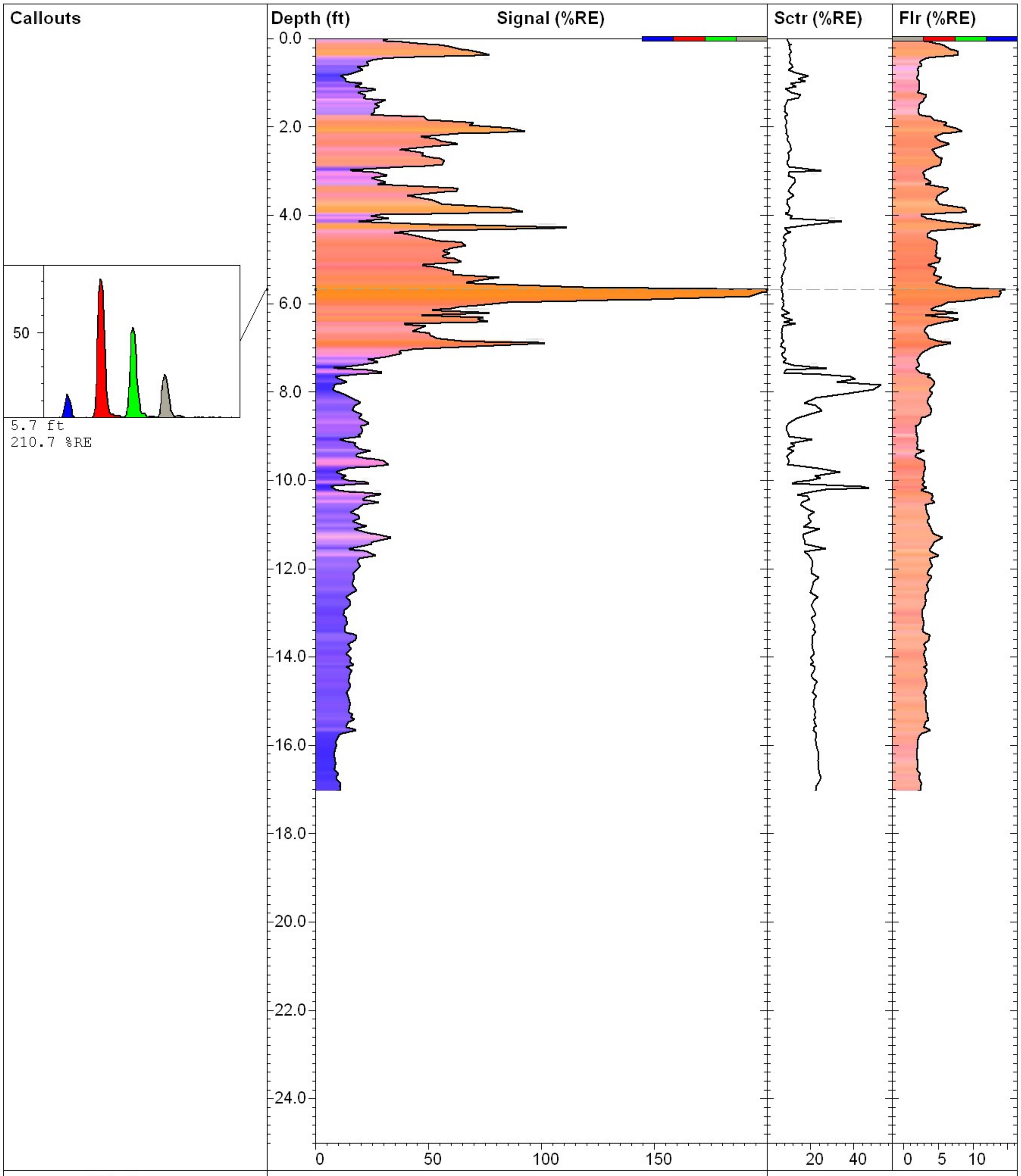
CRAW_TG008		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.270296 N / NAD83**	*Final depth:* **21.53 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.303297 W**	*Max signal:* **173.3 % @ 14.73 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/26/2007 2:53:02 PM**



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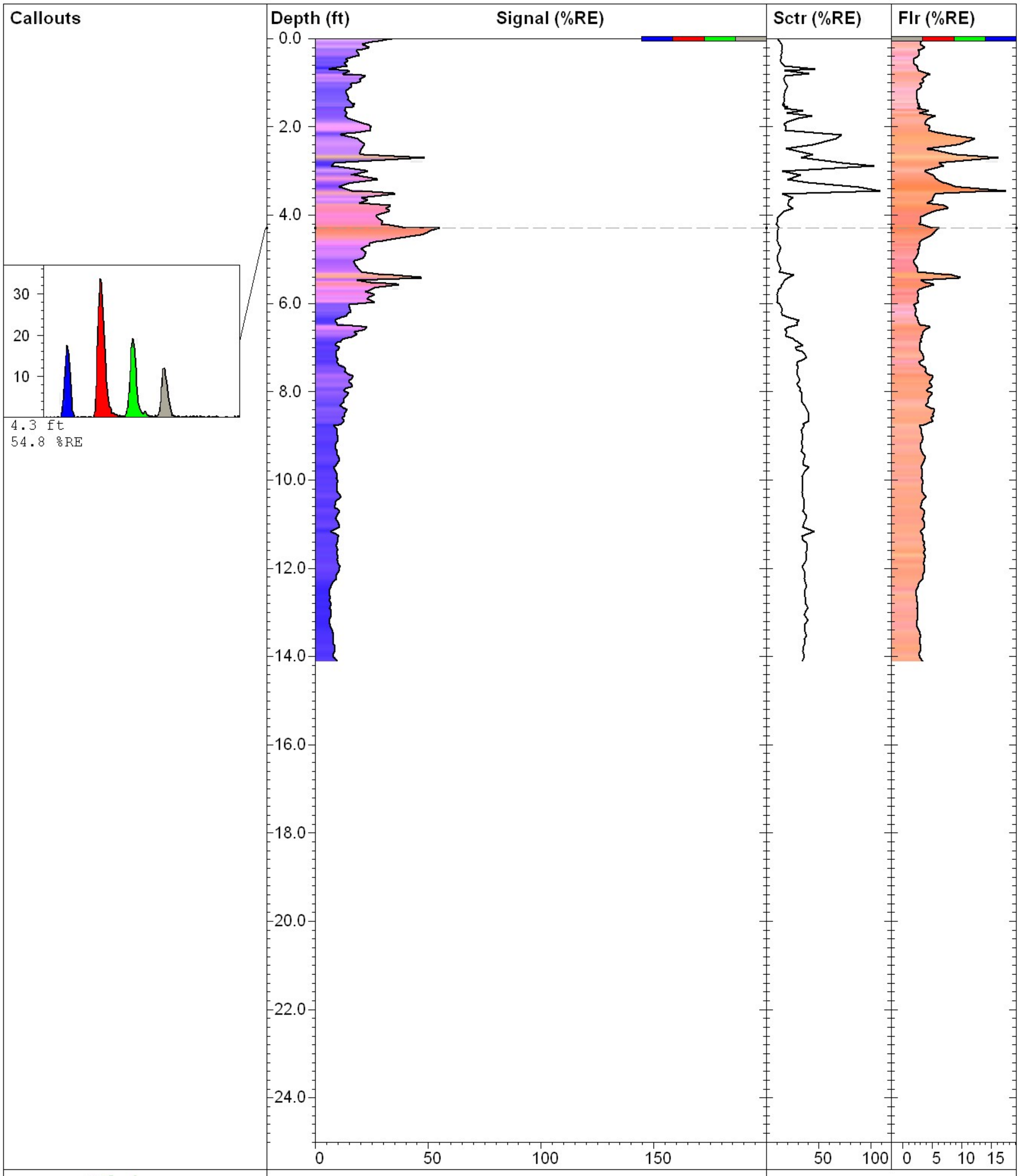
CRAW_TG009		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.262891 N / NAD83**	*Final depth:* **17.03 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.299433 W**	*Max signal:* **210.7 % @ 5.68 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/26/2007 3:54:16 PM**



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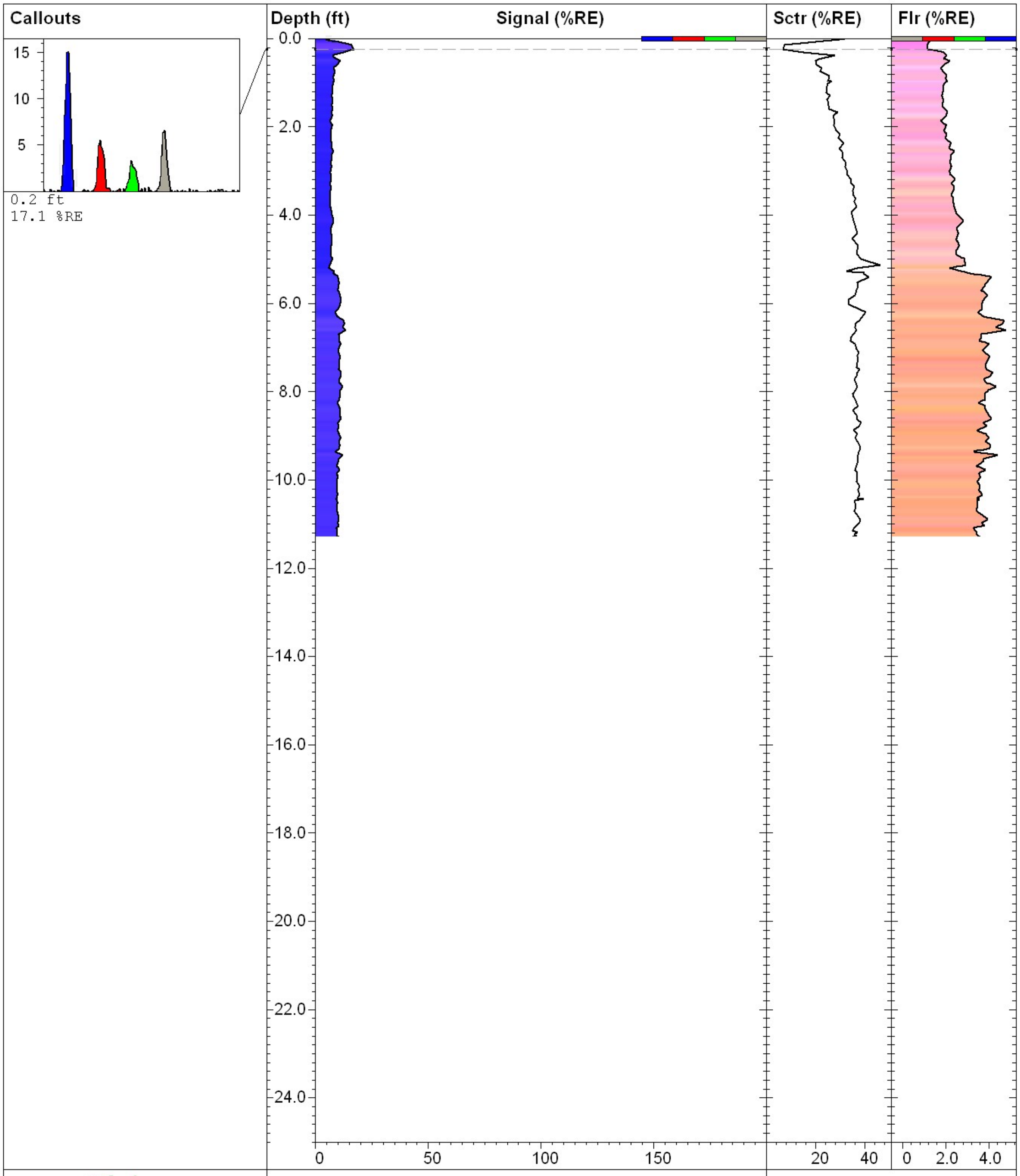
CRAW_TG010		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.255035 N / NAD83**	*Final depth:* **14.12 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.294764 W**	*Max signal:* **54.8 % @ 4.29 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 9:45:53 AM**



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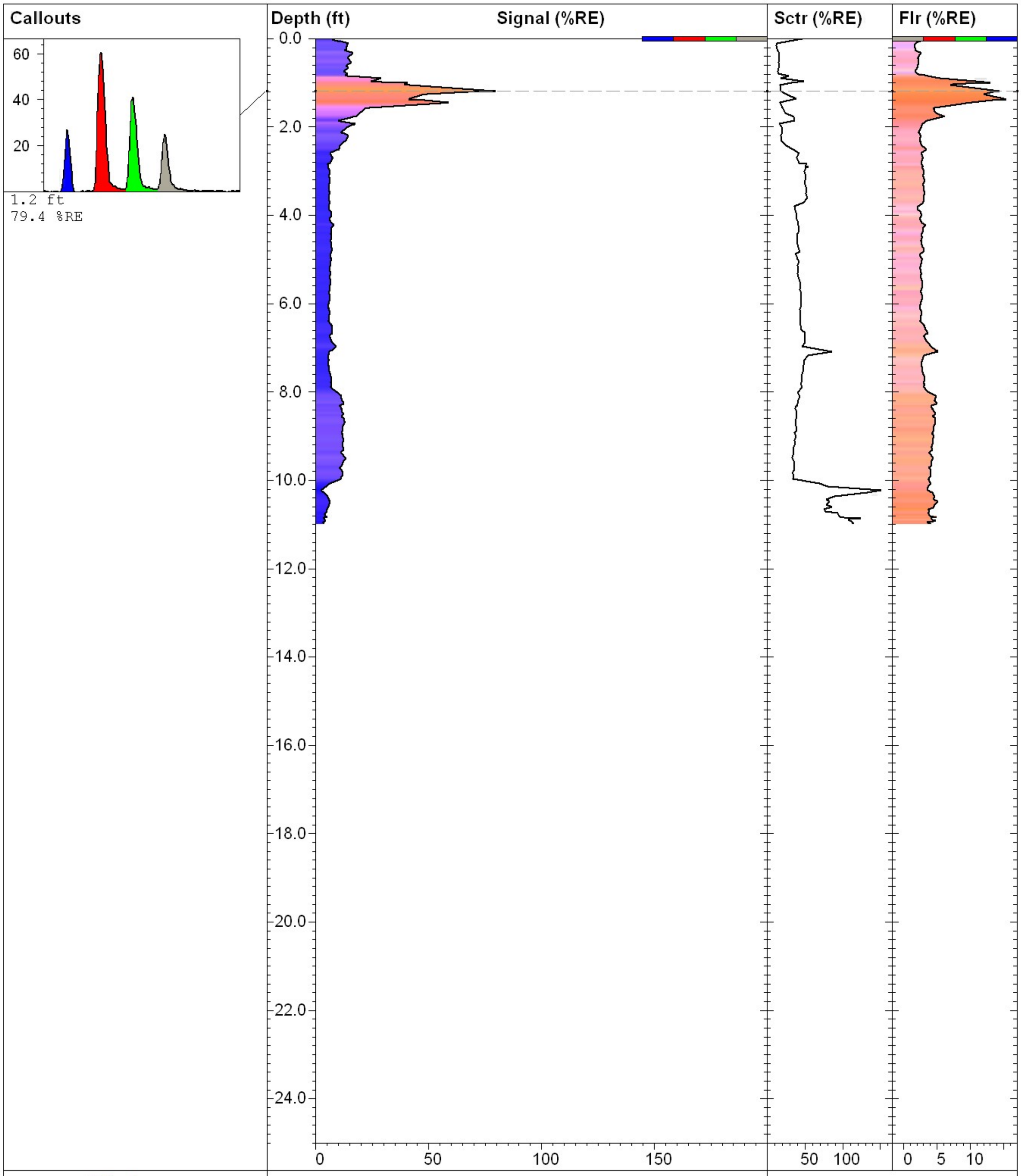
CRAW_TG011		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.283286 N / NAD83**	*Final depth:* **11.29 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.305562 W**	*Max signal:* **17.1 % @ 0.24 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 10:56:59 AM**



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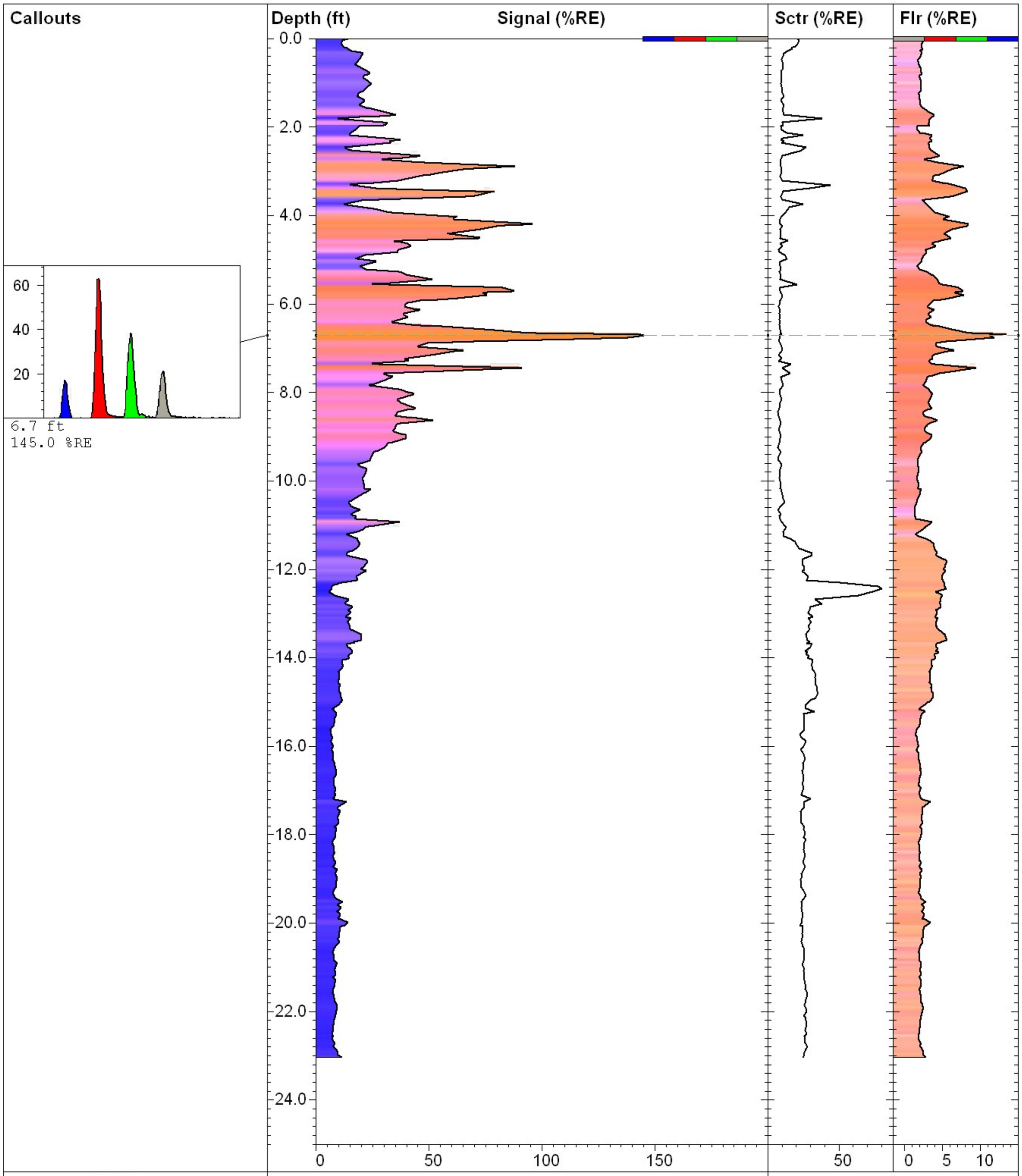
CRAW_TG012

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.281333 N / NAD83**	*Final depth:* **11.00 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.303074 W**	*Max signal:* **79.4 % @ 1.18 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 11:37:01 AM**



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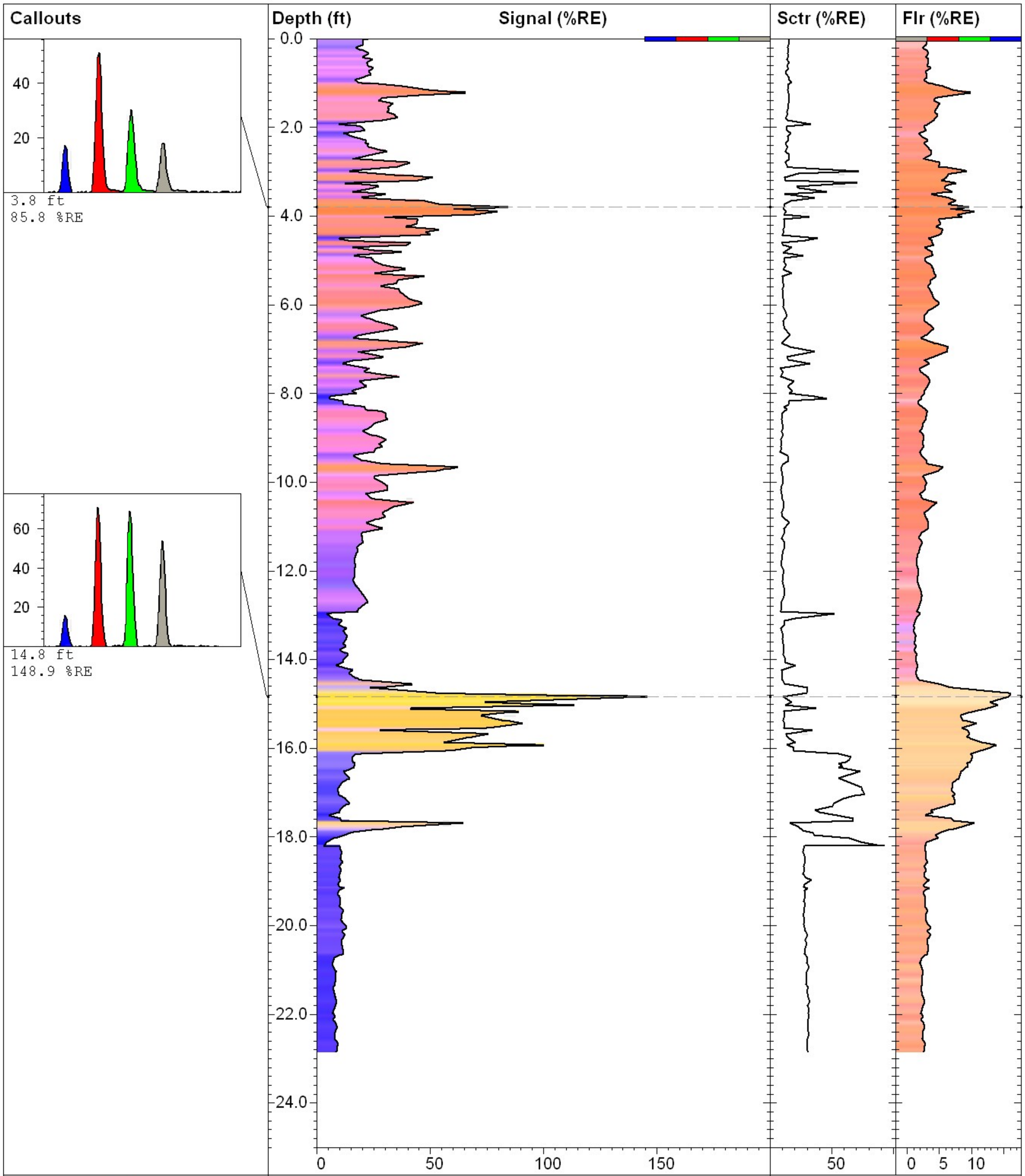
CRAW_TG013

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.276990 N / NAD83**	*Final depth:* **23.05 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.300809 W**	*Max signal:* **145.0 % @ 6.71 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 12:54:09 PM**



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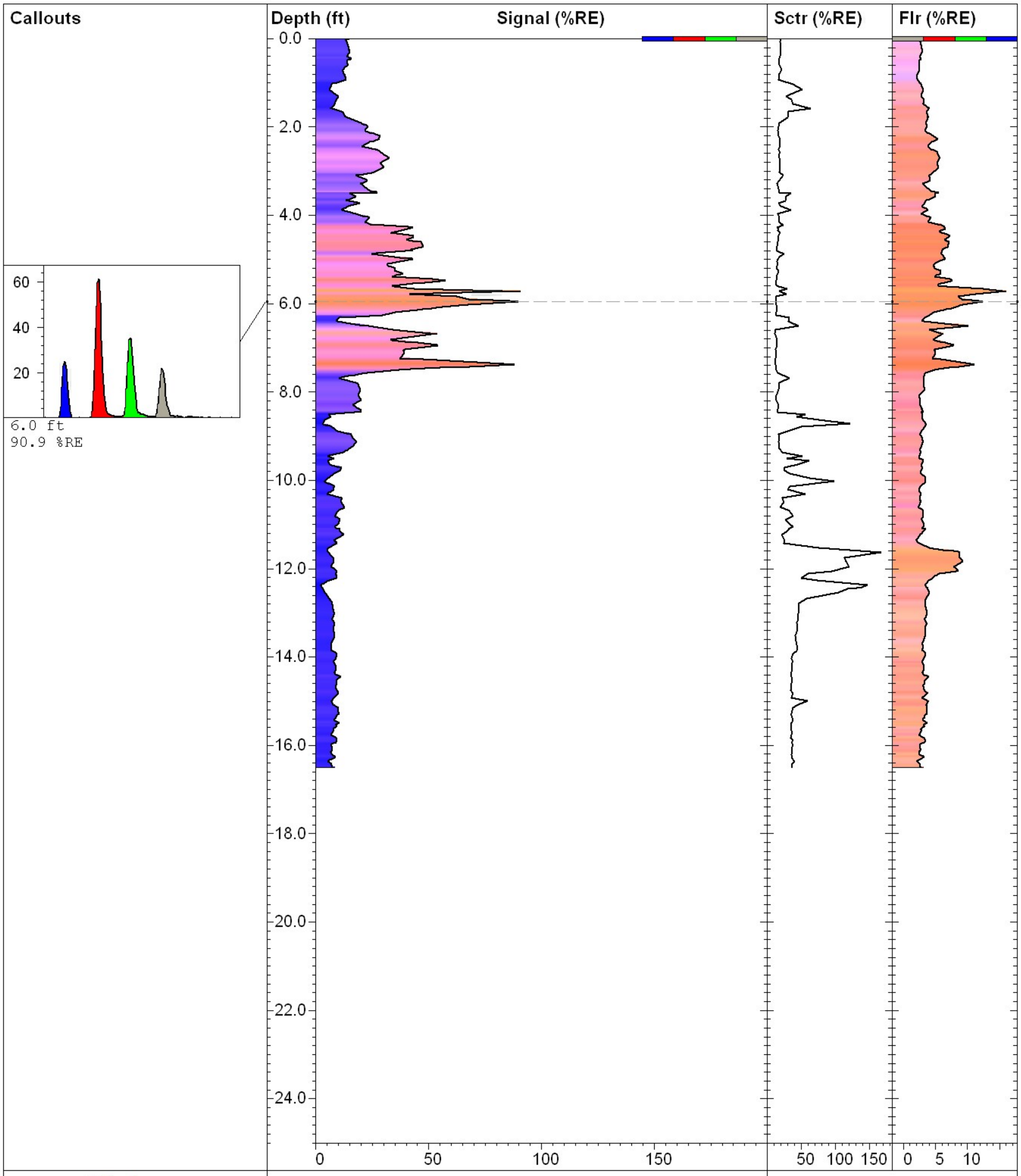
CRAW_TG014		TarGOST
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.271967 N / NAD83**	*Final depth:* **22.87 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.298788 W**	*Max signal:* **148.9 % @ 14.84 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 1:42:26 PM**



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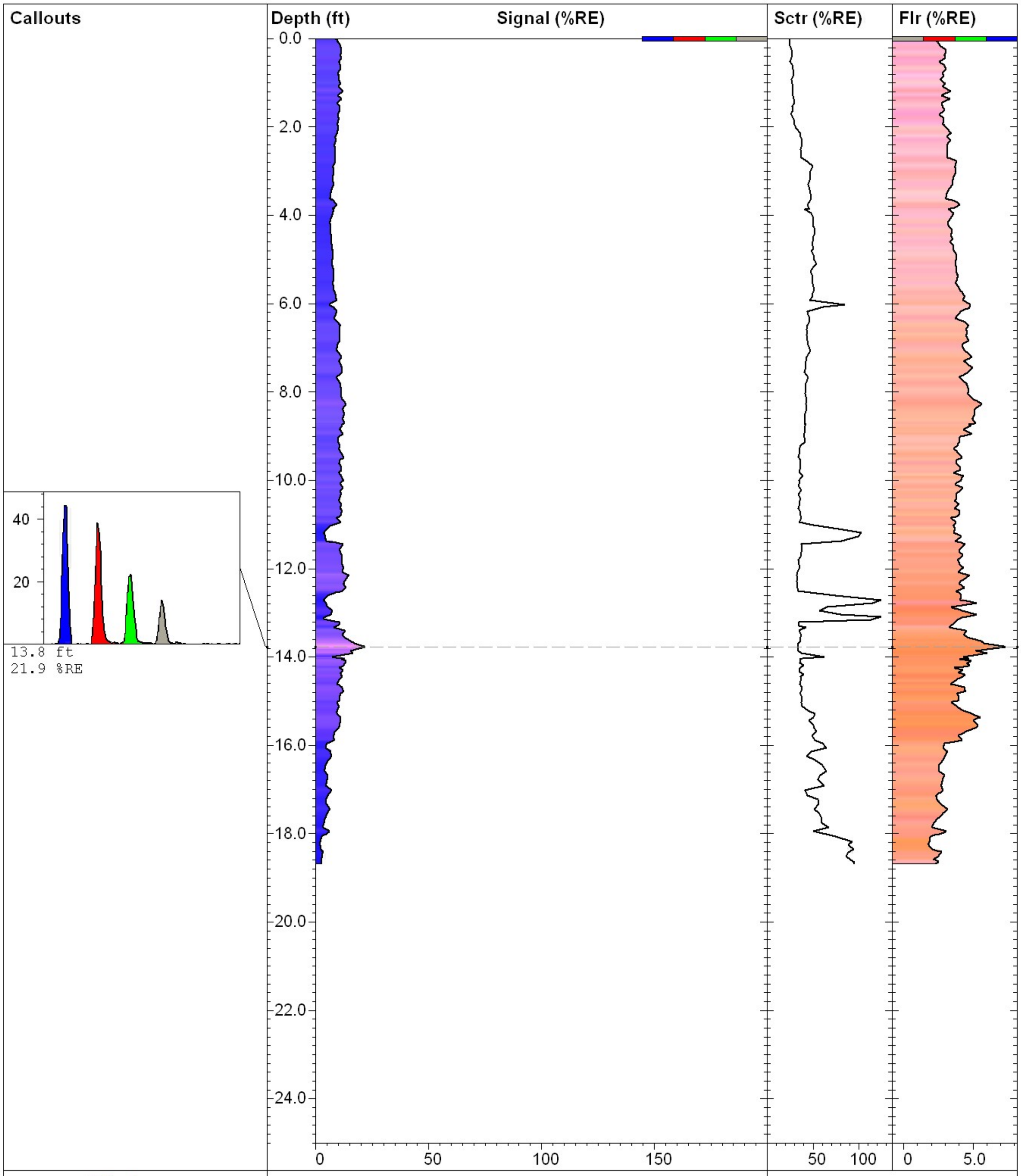
CRAW_TG015

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.266169 N / NAD83**	*Final depth:* **16.52 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.293911 W**	*Max signal:* **93.0 % @ 5.72 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 2:40:47 PM**



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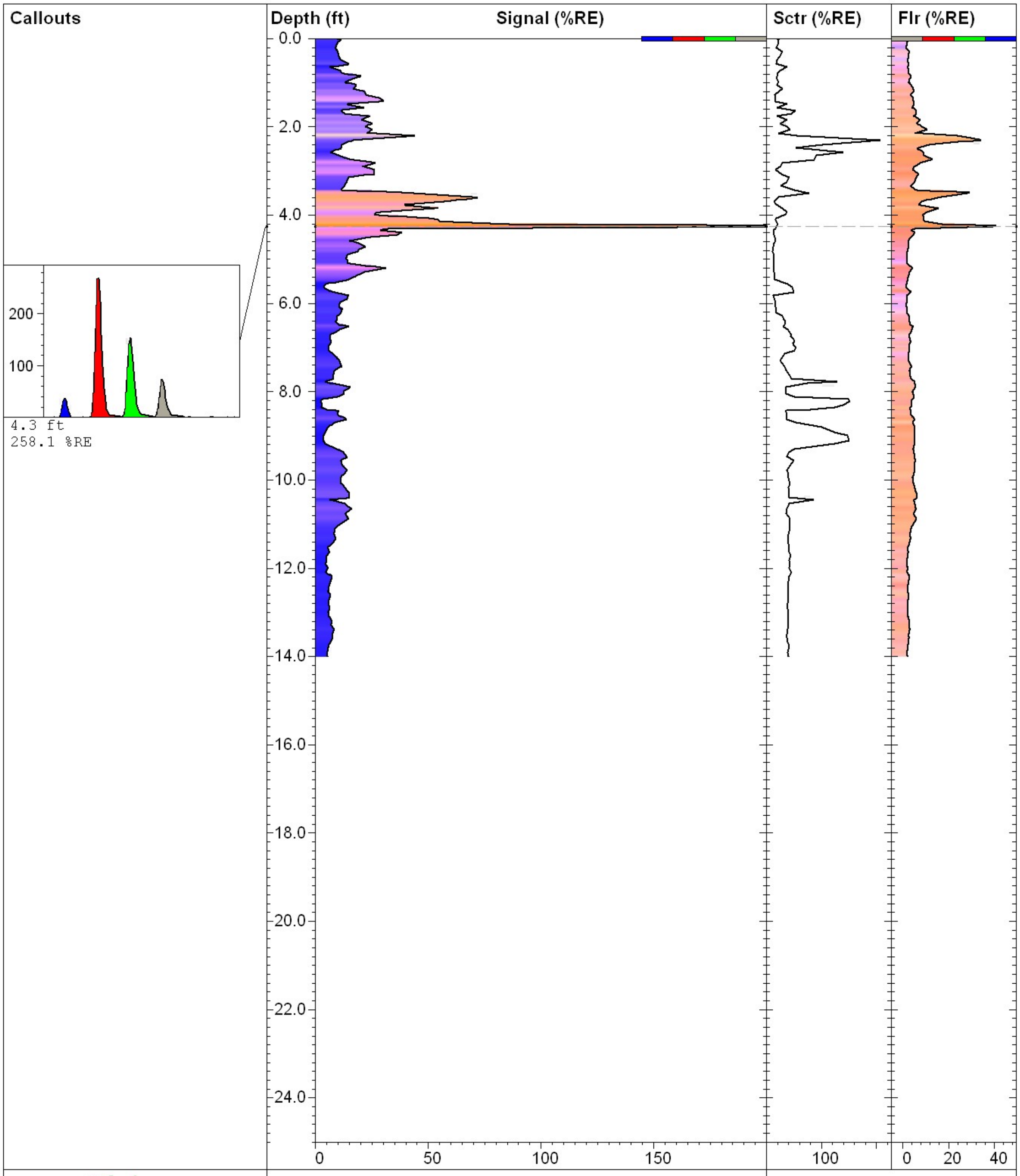
CRAW_TG016

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.285535 N / NAD83**	*Final depth:* **18.69 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.299424 W**	*Max signal:* **21.9 % @ 13.77 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/27/2007 3:34:34 PM**



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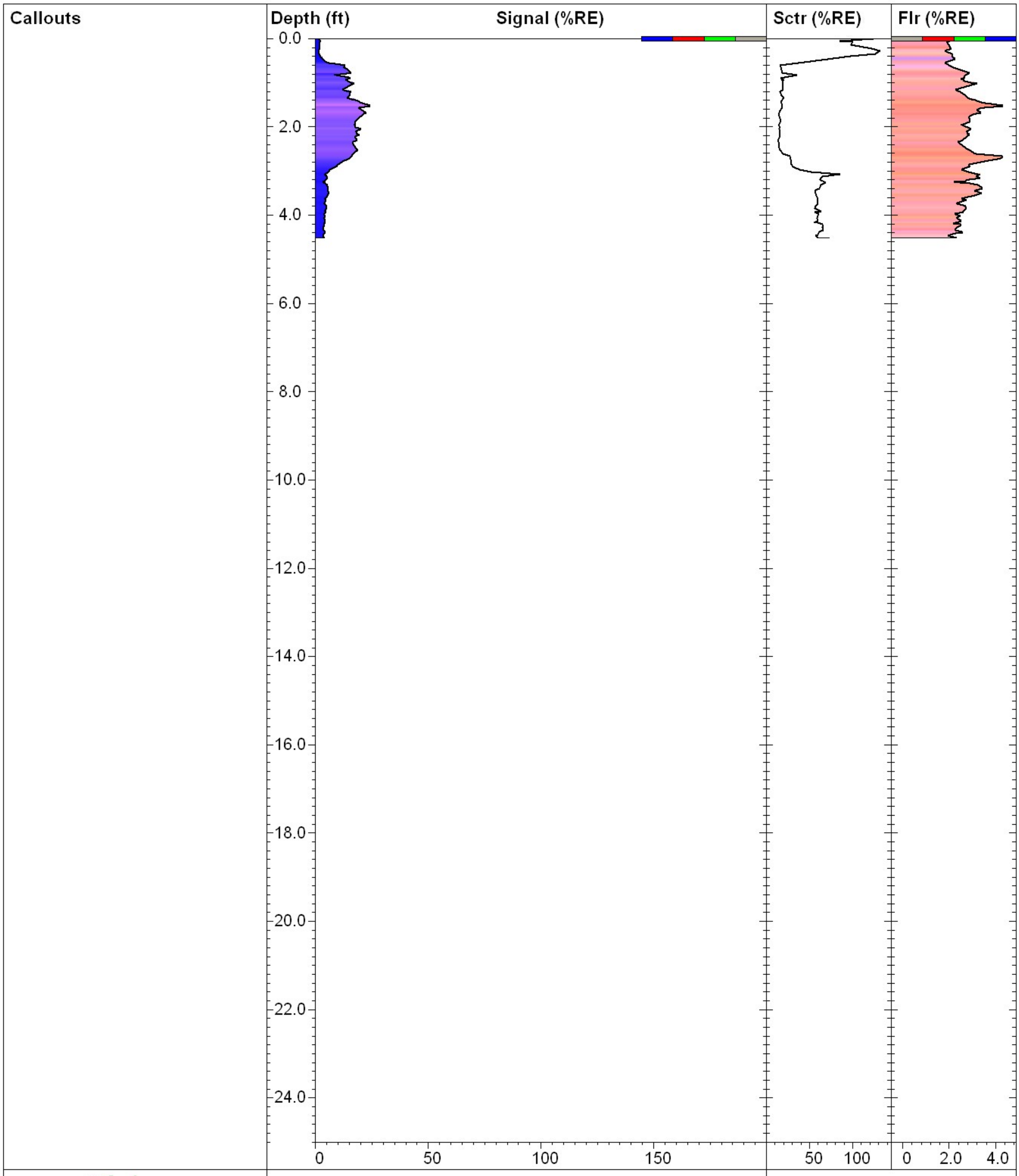
CRAW_TG017		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.257651 N / NAD83**	*Final depth:* **14.02 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.290564 W**	*Max signal:* **258.1 % @ 4.25 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 10:46:47 AM**



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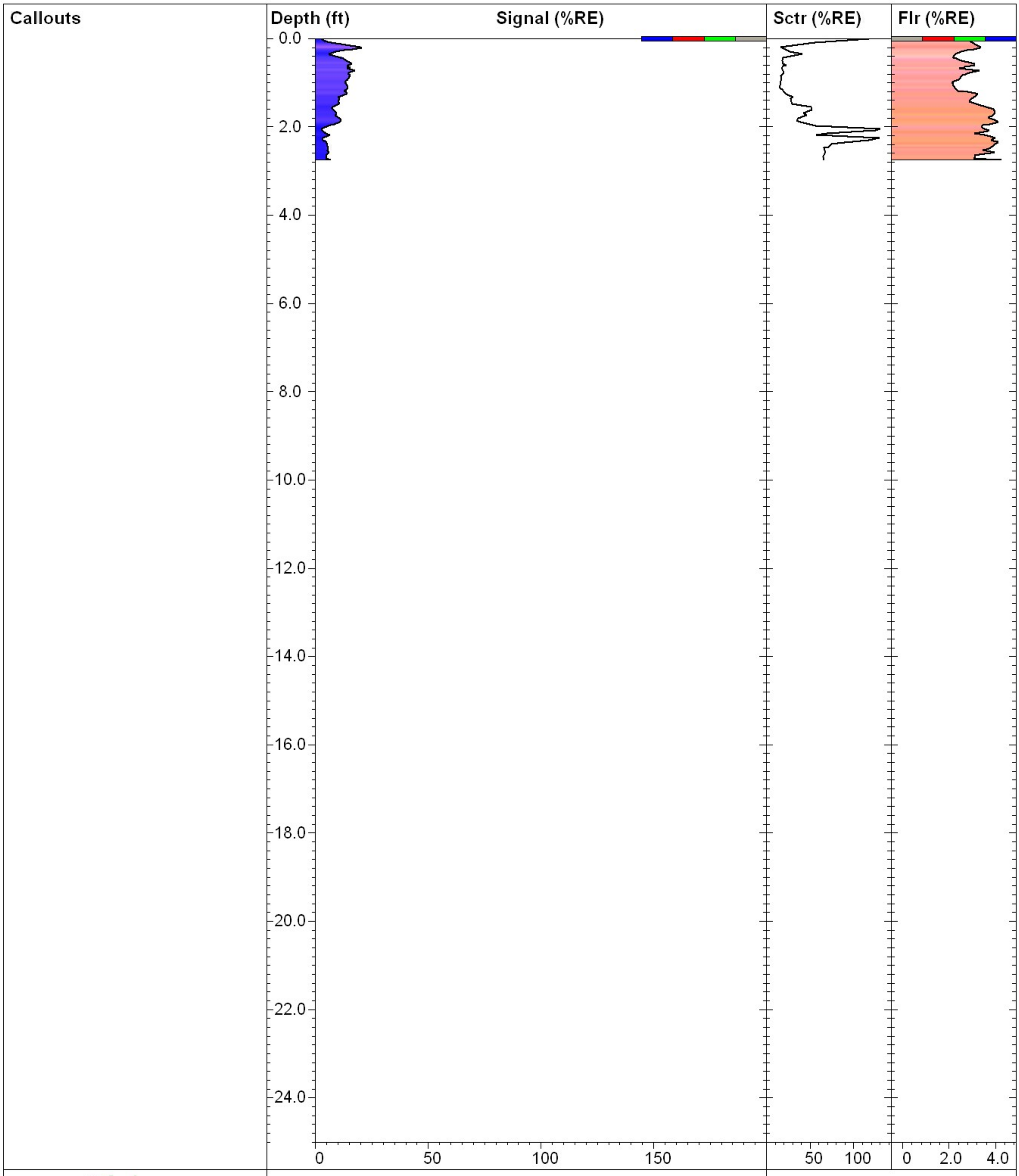
CRAW_TG018		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.250758 N / NAD83**	*Final depth:* **4.53 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.285367 W**	*Max signal:* **24.8 % @ 1.52 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 11:42:26 AM**



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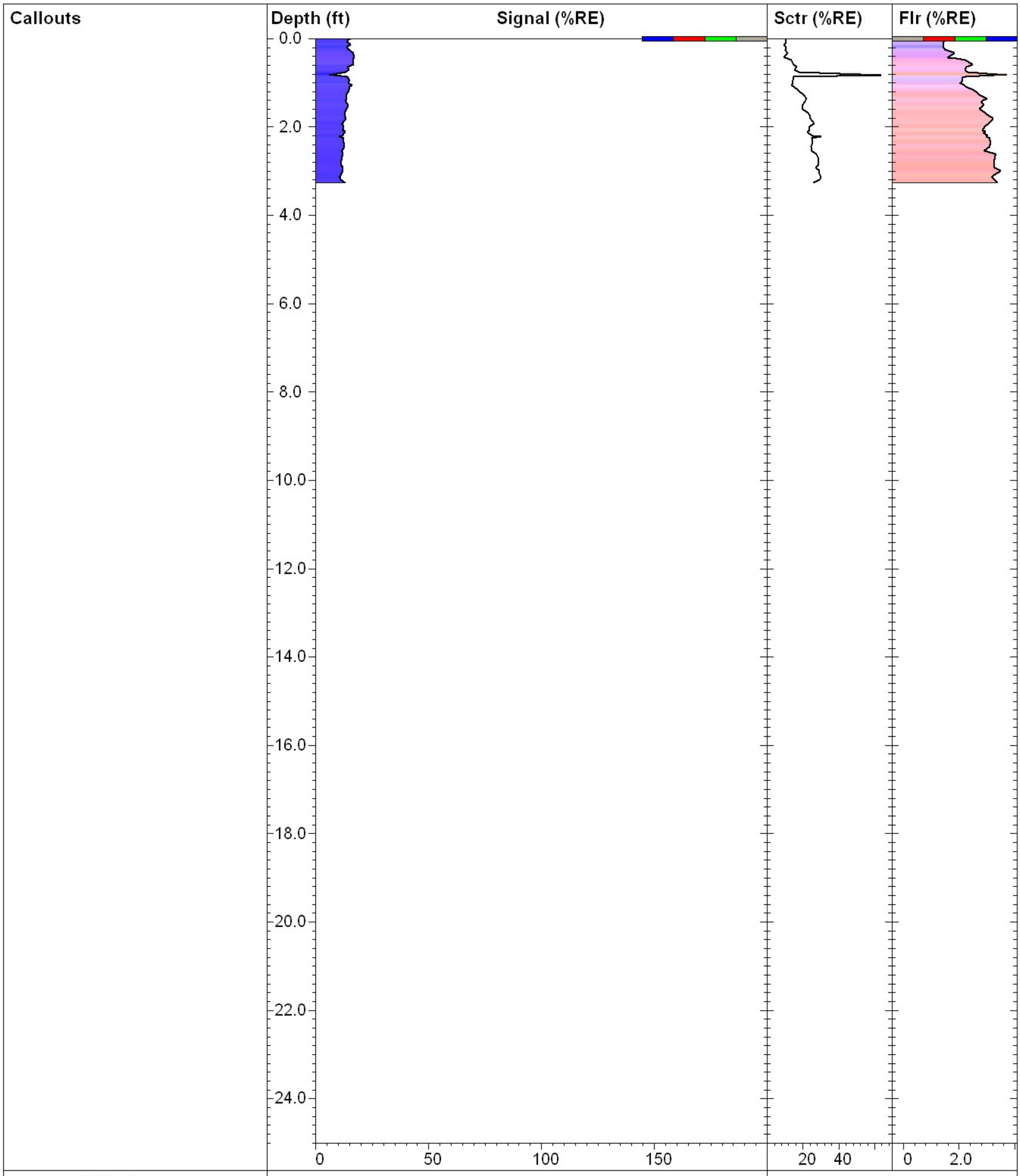
CRAW_TG018B		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.251150 N / NAD83**	*Final depth:* **2.76 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.287656 W**	*Max signal:* **21.0 % @ 0.20 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 12:06:49 PM**



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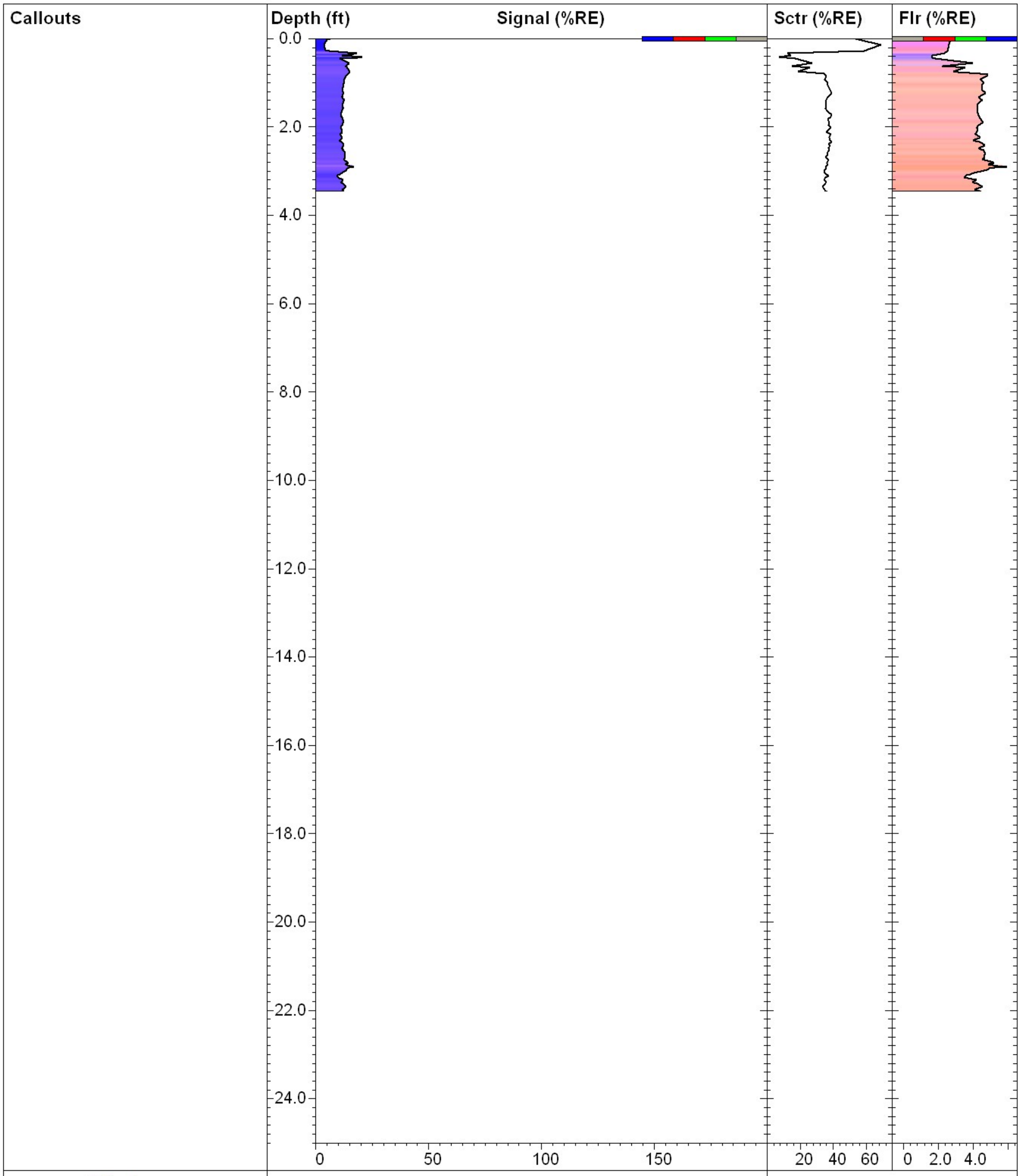
CRAW_TG019

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.248066 N / NAD83**	*Final depth:* **3.27 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.289684 W**	*Max signal:* **17.2 % @ 0.42 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 1:12:11 PM**



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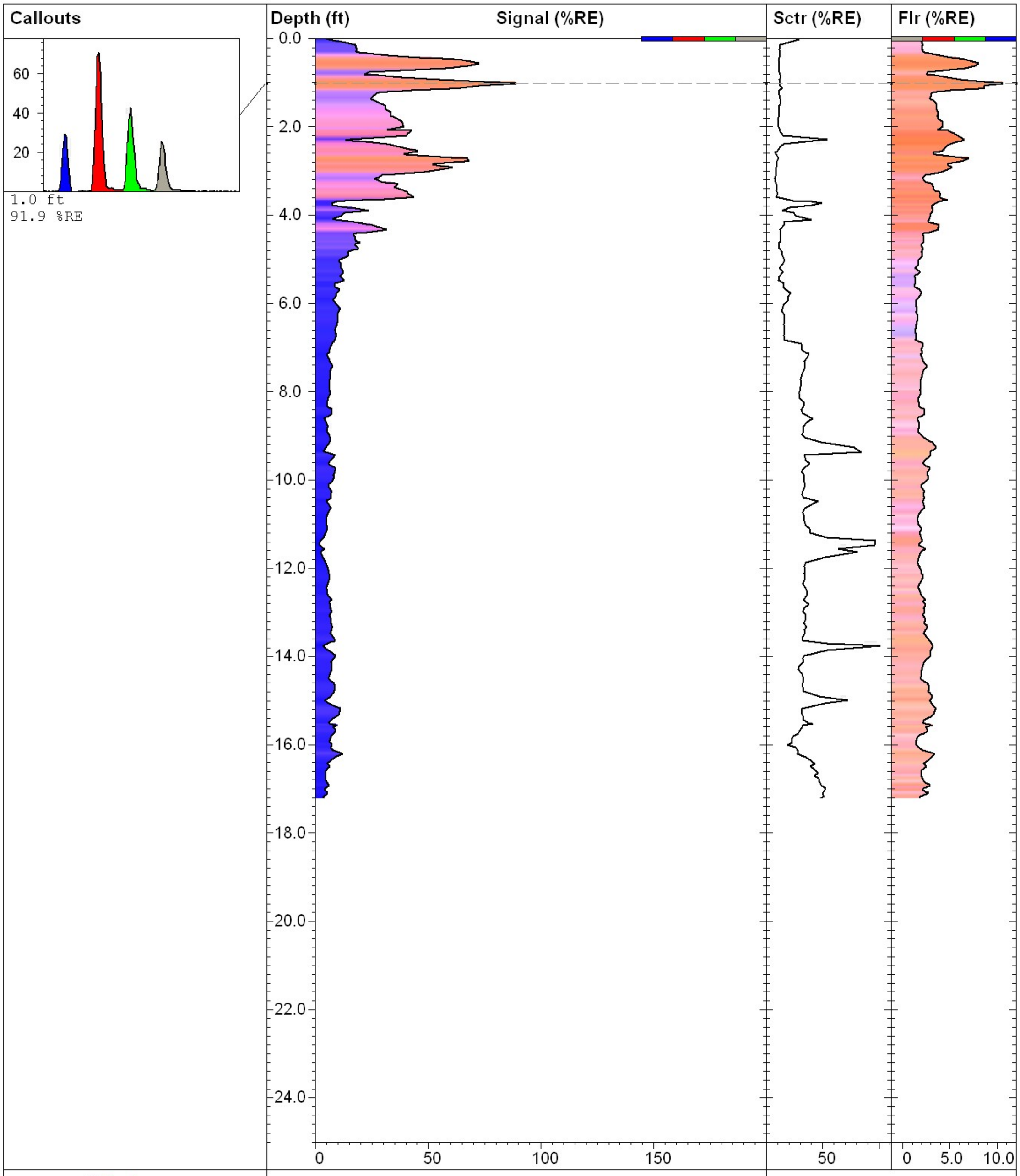
CRAW_TG019B

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.248908 N / NAD83**	*Final depth:* **3.47 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.294350 W**	*Max signal:* **21.5 % @ 0.41 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/1/2007 10:19:20 AM**



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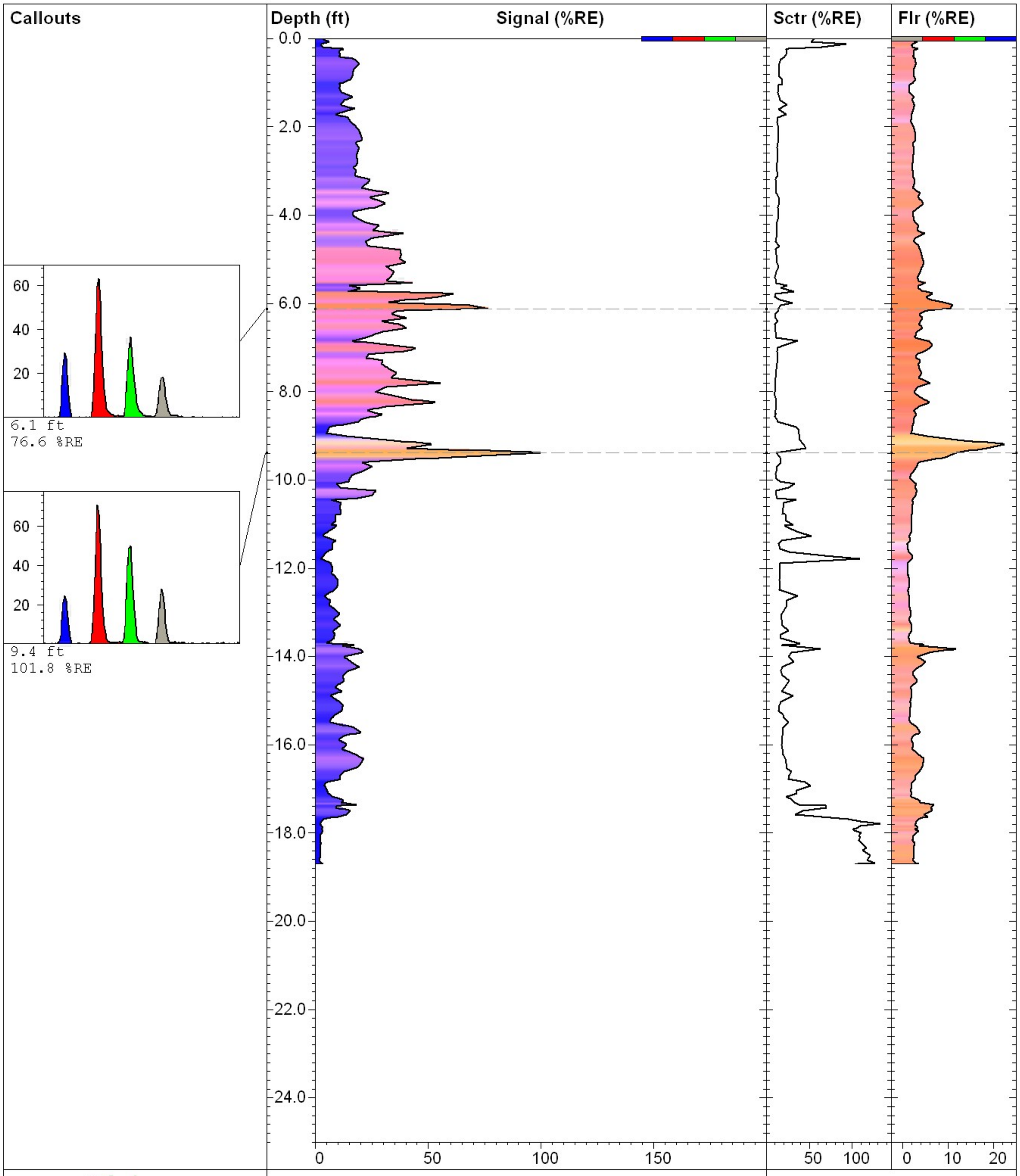
CRAW_TG020		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.280554 N / NAD83**	*Final depth:* **17.23 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.298299 W**	*Max signal:* **91.9 % @ 1.01 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 2:04:31 PM**



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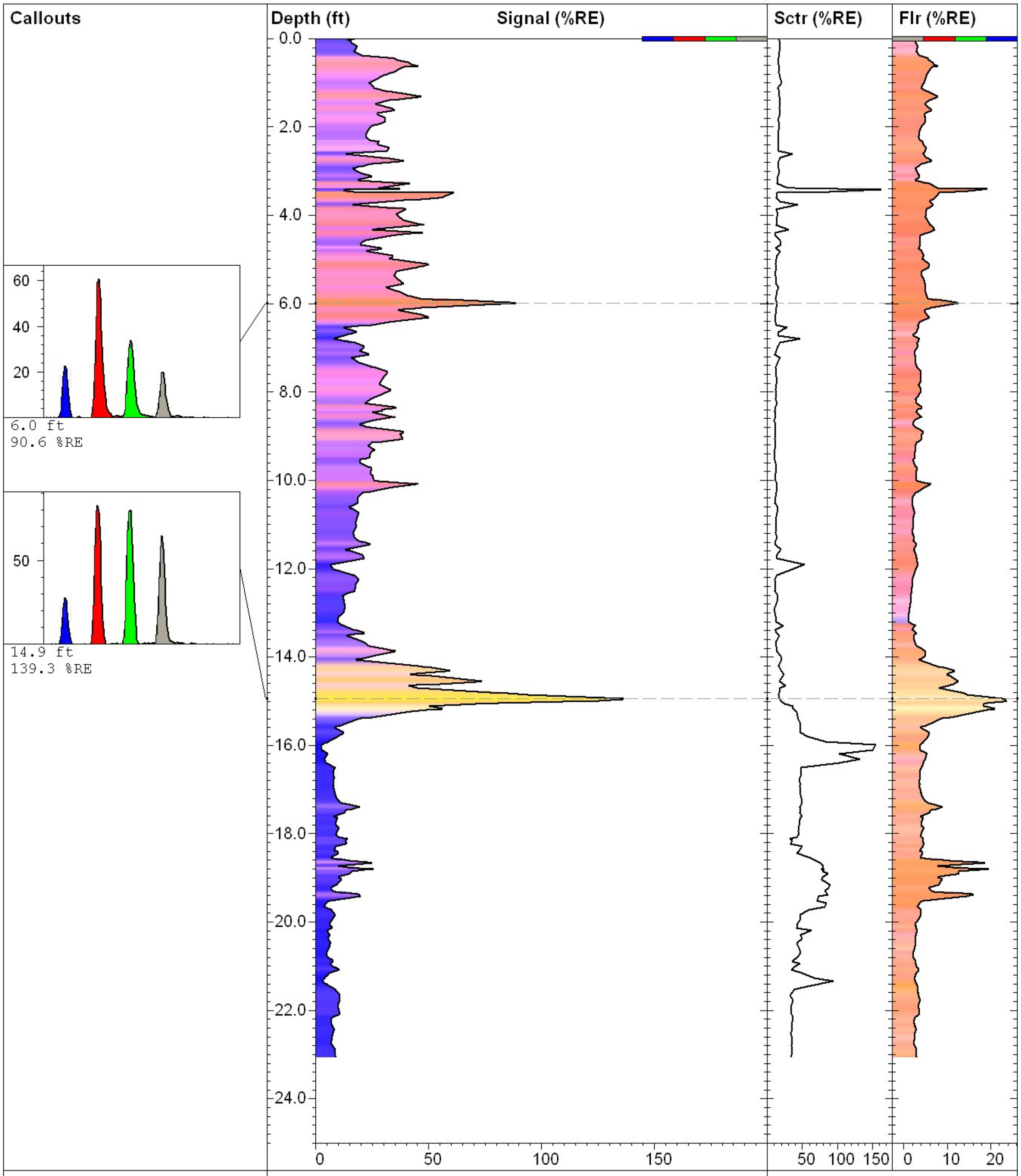
CRAW_TG021		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.279175 N / NAD83**	*Final depth:* **18.71 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.294246 W**	*Max signal:* **101.8 % @ 9.38 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 2:48:42 PM**



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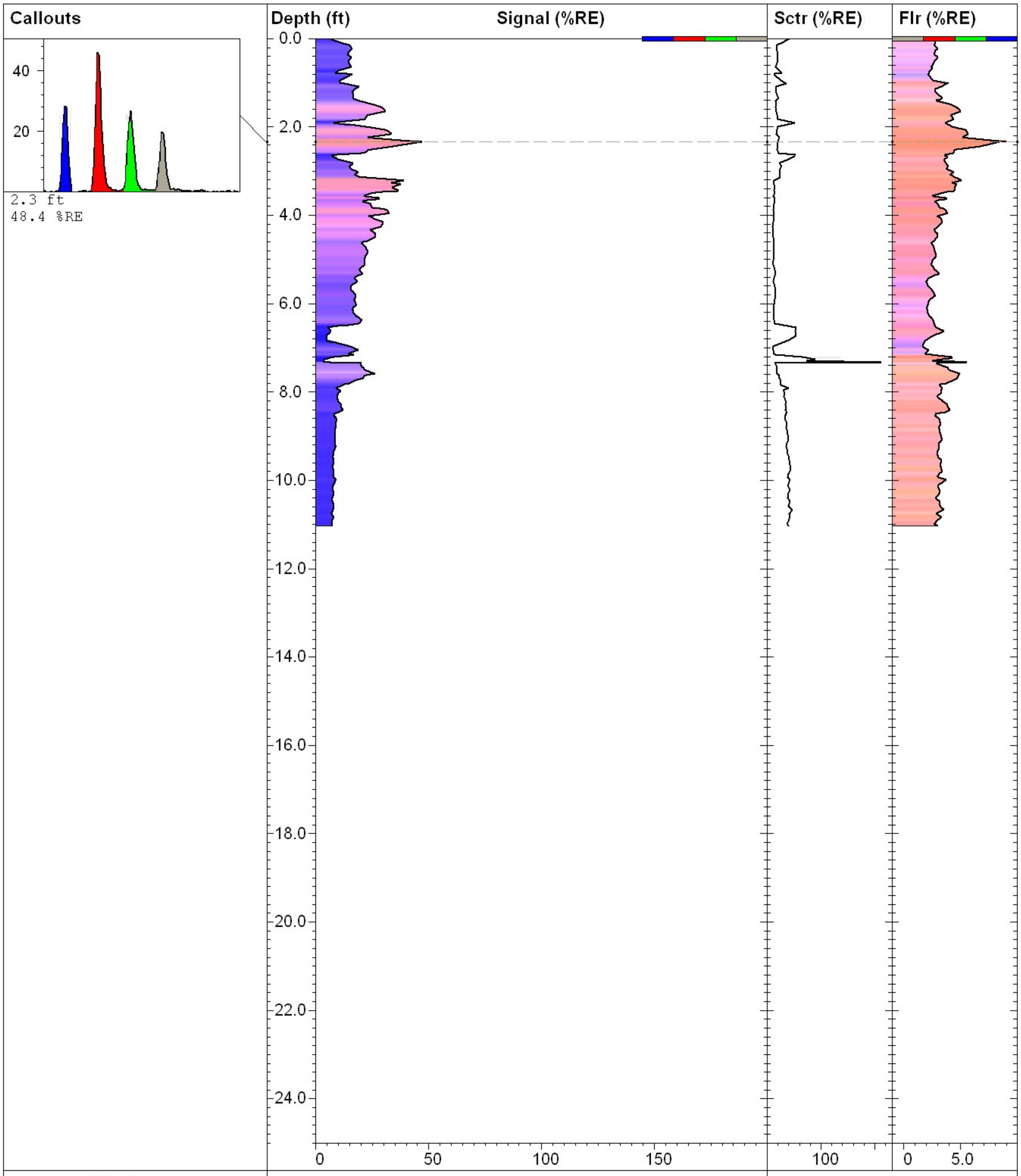
CRAW_TG022		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.273589 N / NAD83**	*Final depth:* **23.07 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.292243 W**	*Max signal:* **139.3 % @ 14.94 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **2/28/2007 3:30:58 PM**



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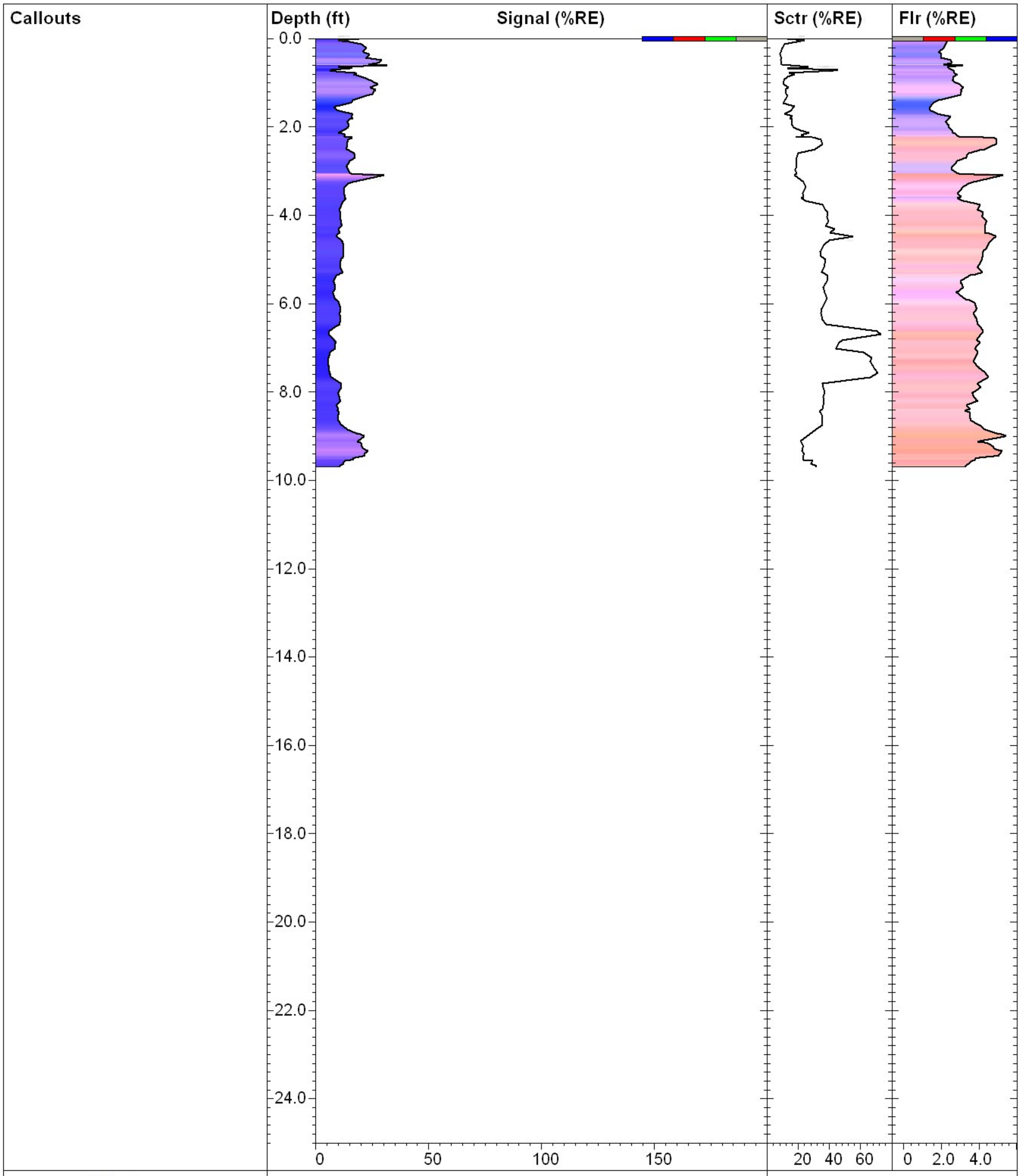
CRAW_TG023		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.265986 N / NAD83**	*Final depth:* **11.04 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.287449 W**	*Max signal:* **48.4 % @ 2.33 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/1/2007 2:56:06 PM**



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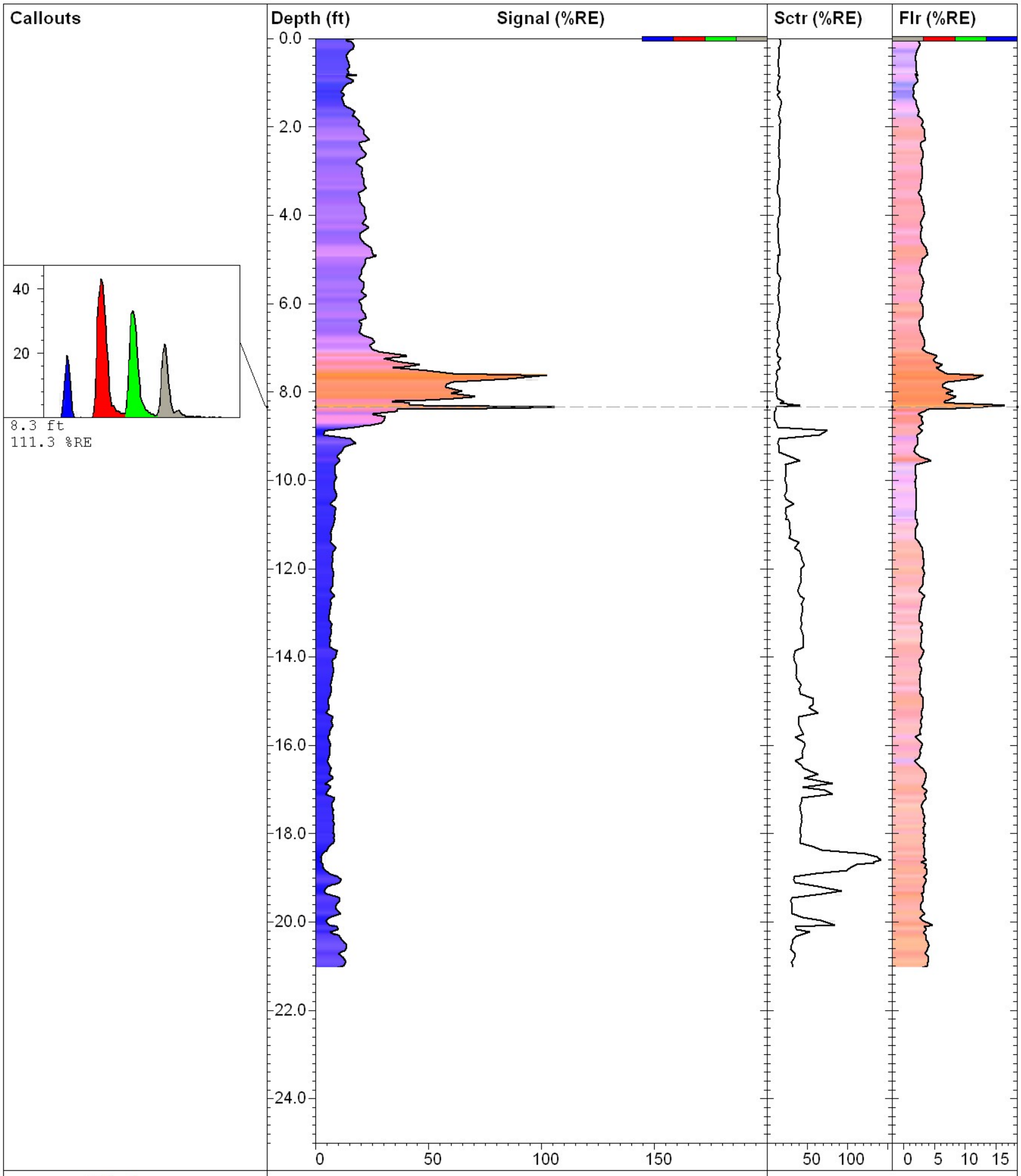
CRAW_TG024

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.286633 N / NAD83**	*Final depth:* **9.70 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.293893 W**	*Max signal:* **33.7 % @ 0.59 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 9:40:18 AM**



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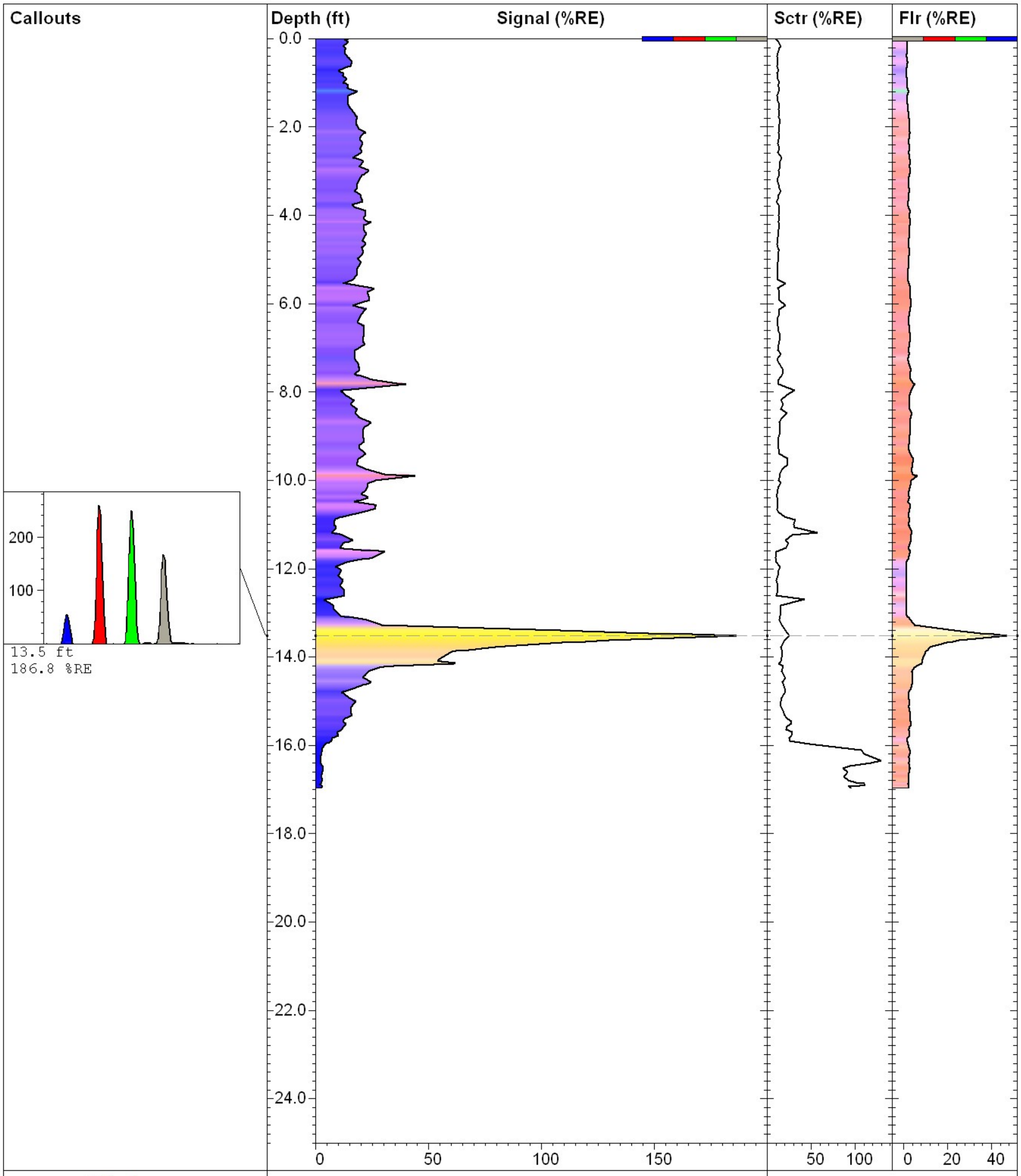
CRAW_TG025

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.281999 N / NAD83**	*Final depth:* **21.02 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.291727 W**	*Max signal:* **111.3 % @ 8.34 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 10:17:05 AM**



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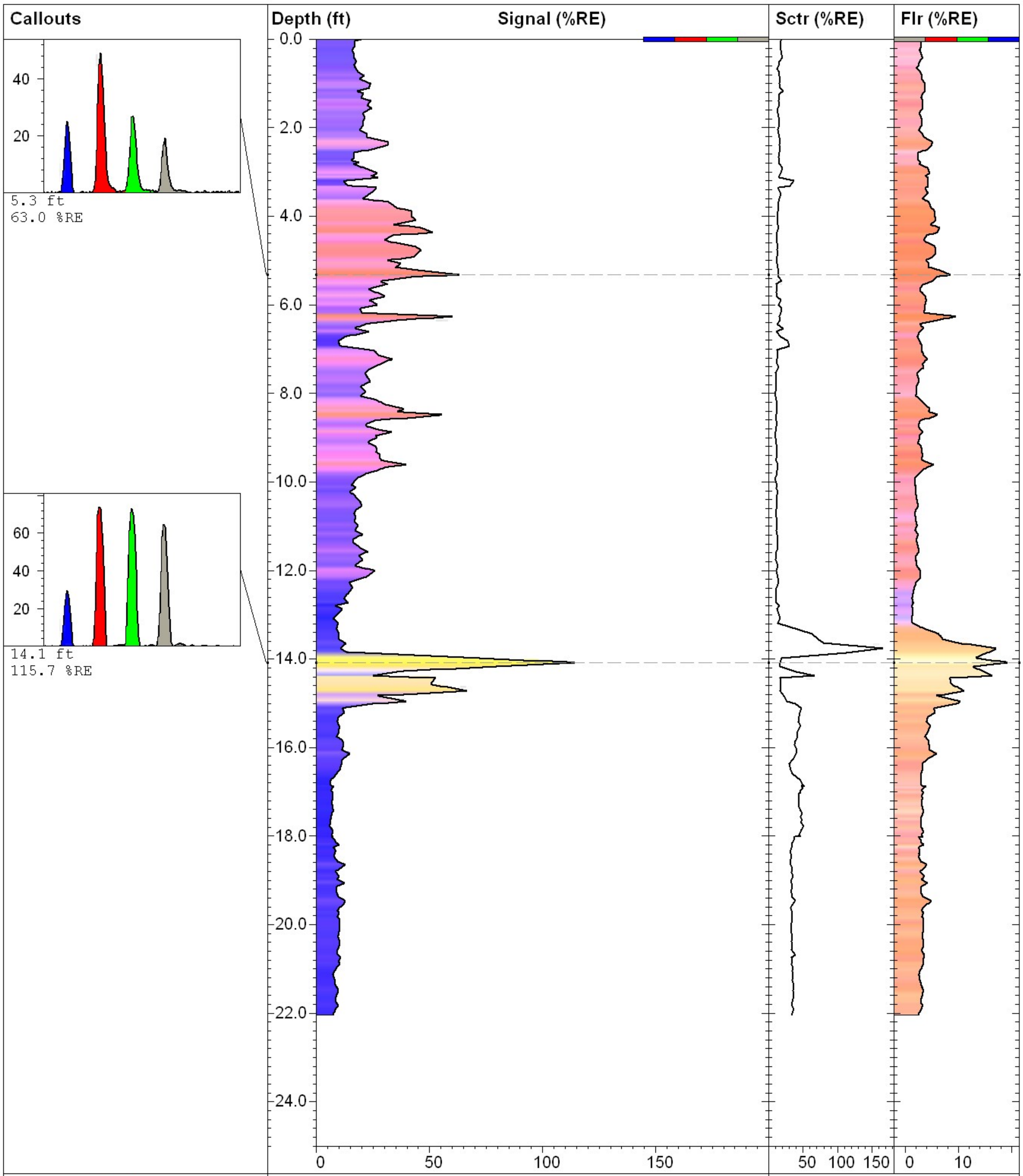
CRAW_TG026		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.278623 N / NAD83**	*Final depth:* **16.97 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.290738 W**	*Max signal:* **186.8 % @ 13.52 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 11:01:31 AM**



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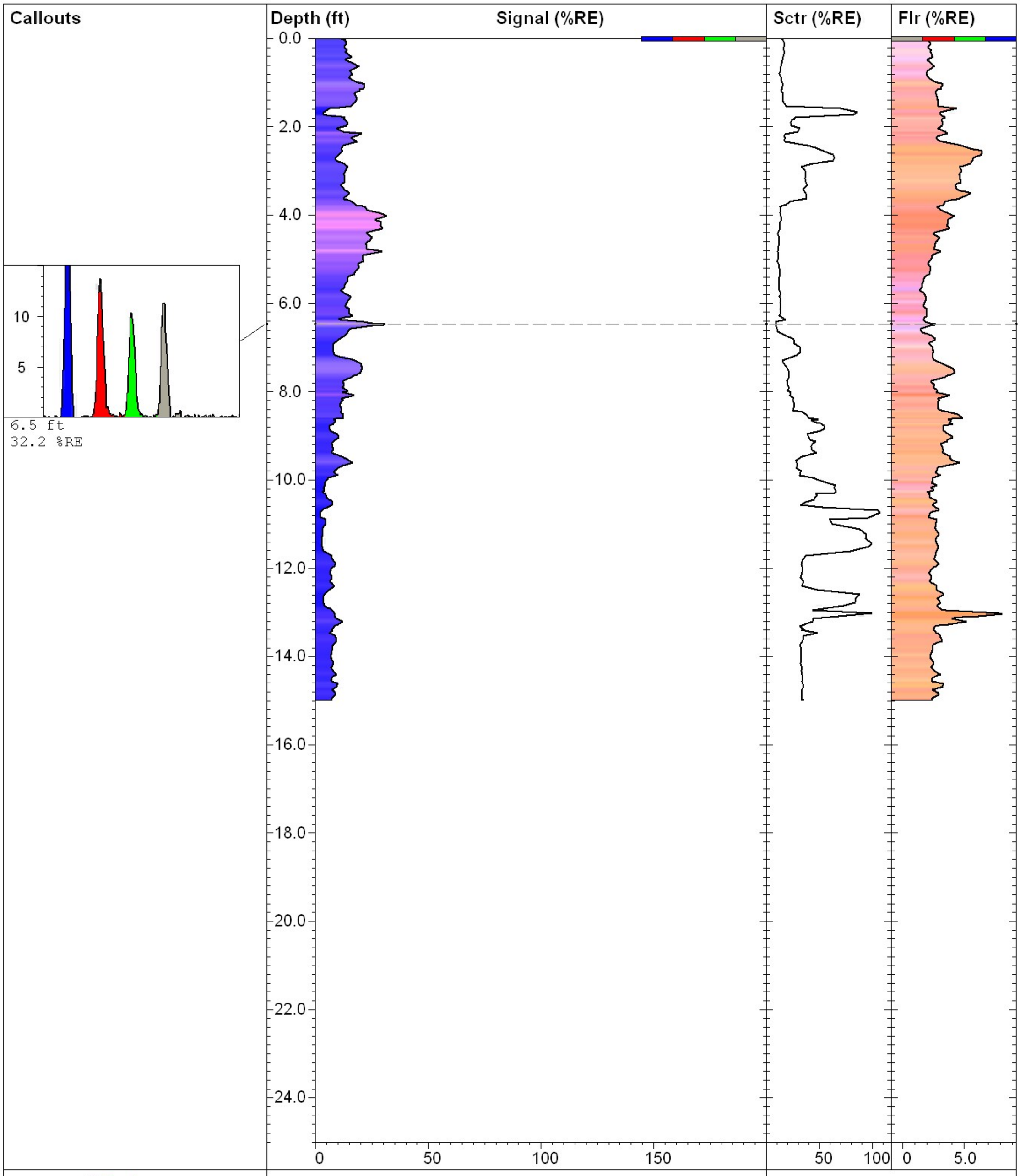
CRAW_TG027		TarGOST
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.274103 N / NAD83**	*Final depth:* **22.06 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.289506 W**	*Max signal:* **115.7 % @ 14.08 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 12:08:59 PM**



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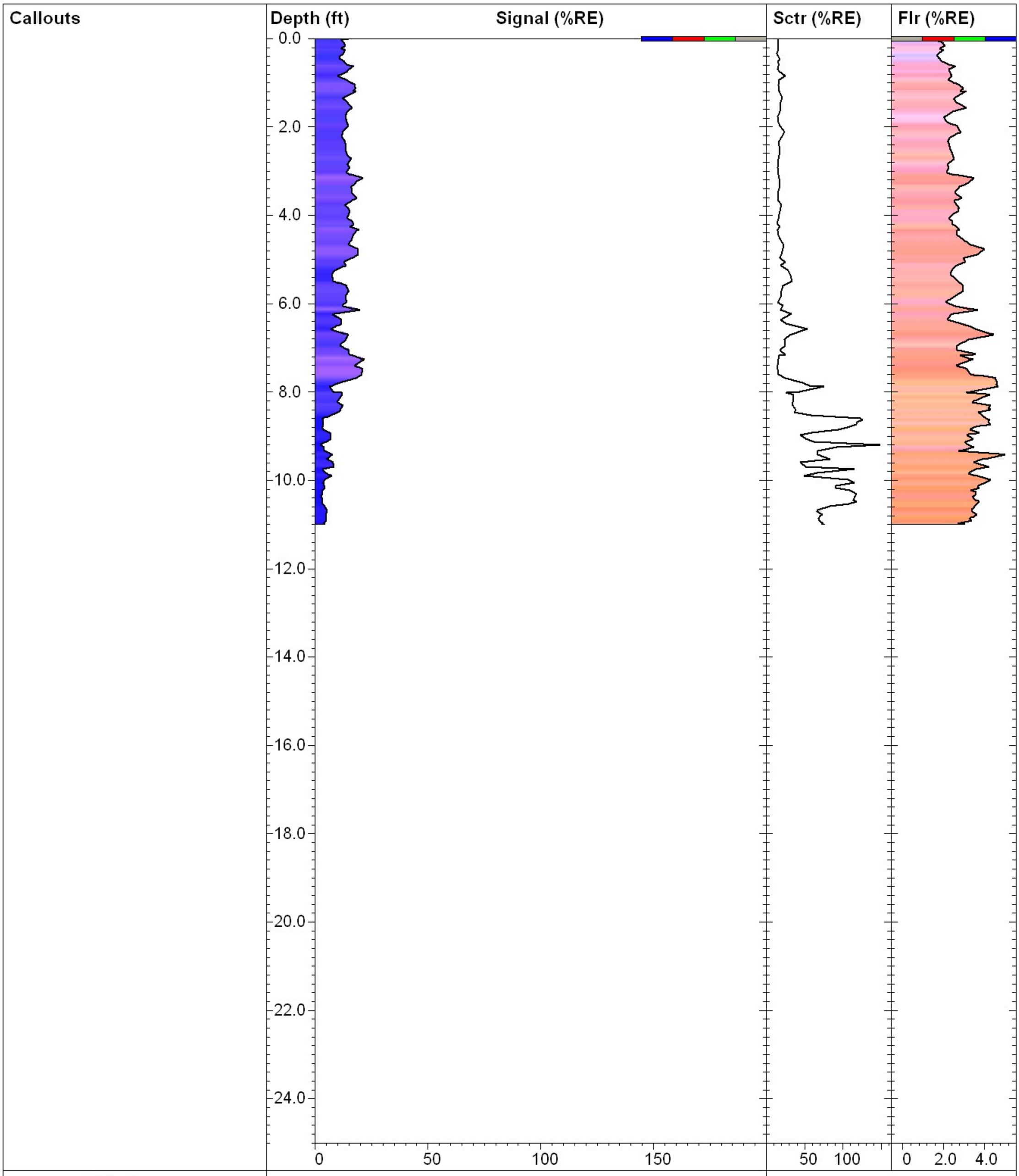
CRAW_TG028		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.267309 N / NAD83**	*Final depth:* **15.00 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.284205 W**	*Max signal:* **32.2 % @ 6.46 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 1:25:06 PM**



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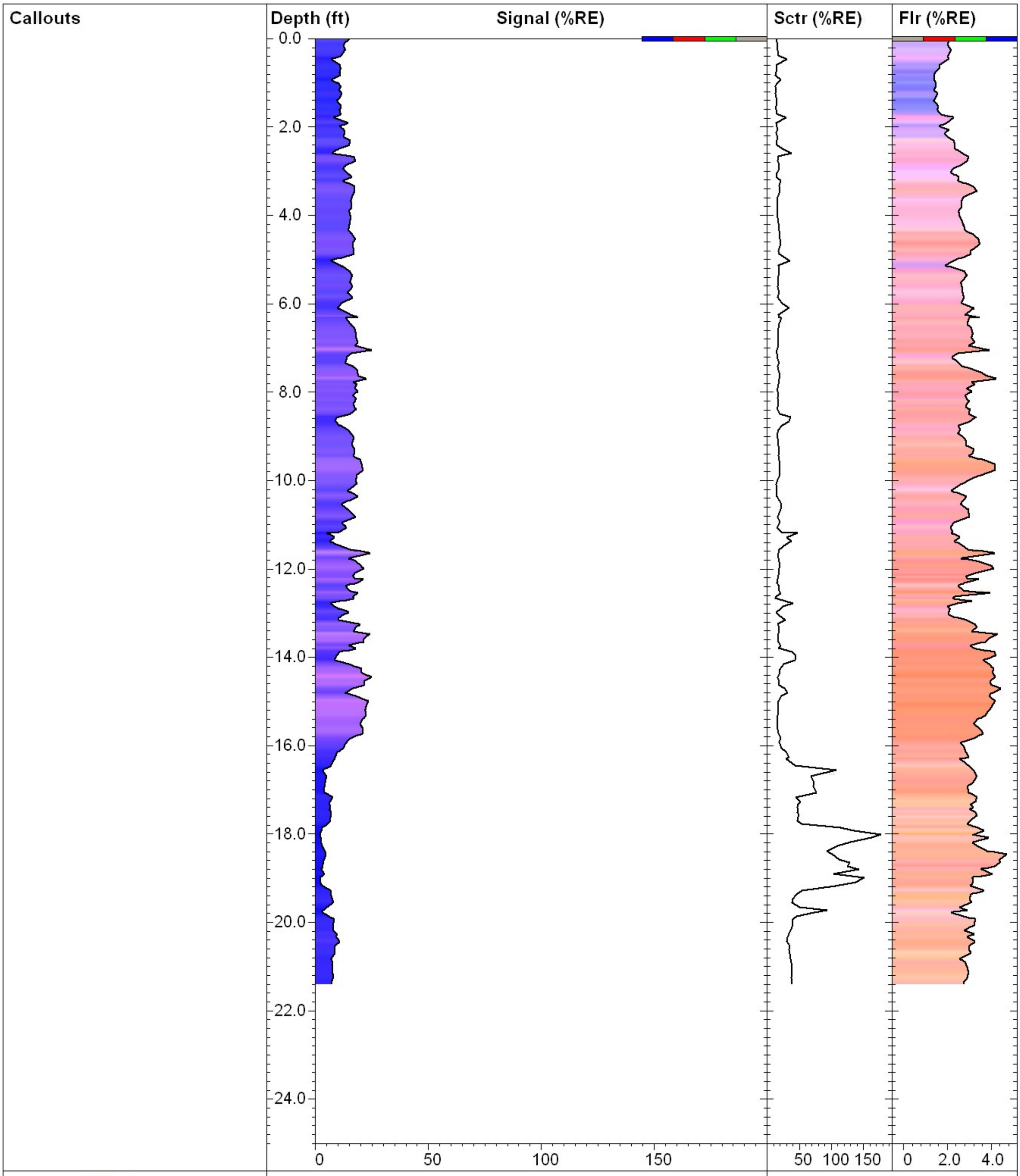
CRAW_TG029		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.289015 N / NAD83**	*Final depth:* **11.00 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.289554 W**	*Max signal:* **21.8 % @ 7.26 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 2:15:33 PM**



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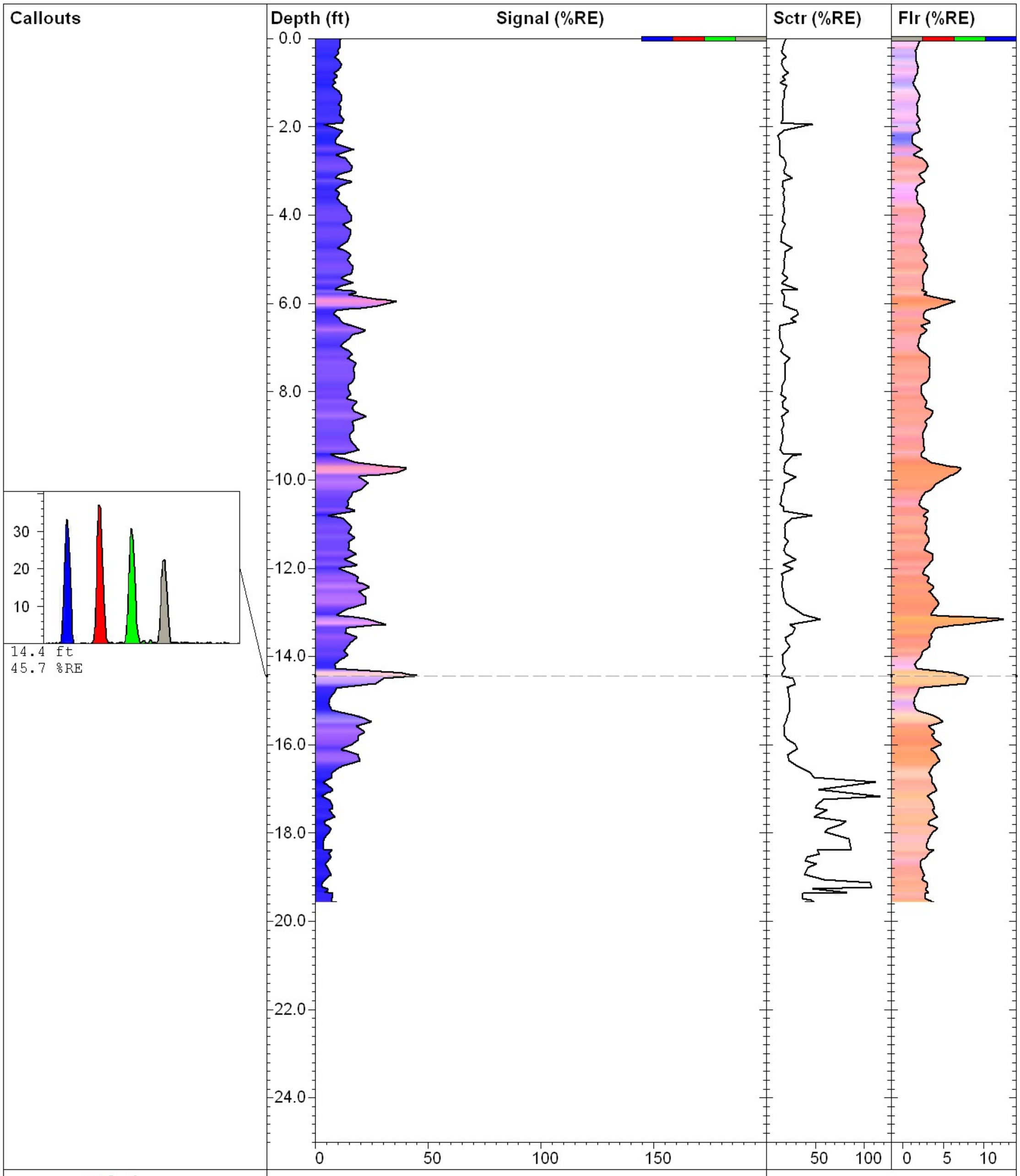
CRAW_TG030

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.284795 N / NAD83**	*Final depth:* **21.41 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.286888 W**	*Max signal:* **25.3 % @ 7.05 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 2:59:14 PM**



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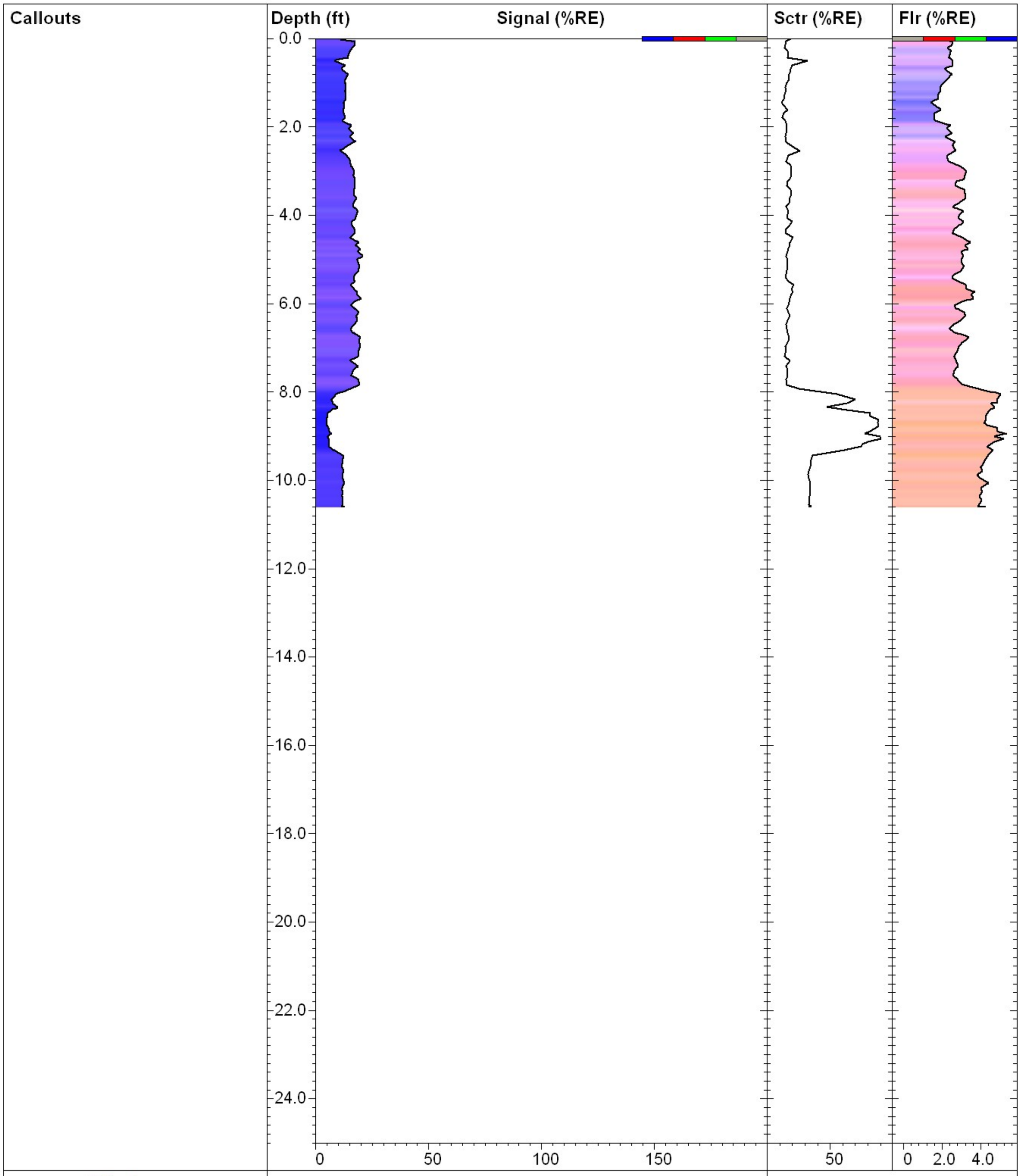
CRAW_TG031		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.280836 N / NAD83**	*Final depth:* **19.58 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.284989 W**	*Max signal:* **45.7 % @ 14.44 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/5/2007 3:40:29 PM**



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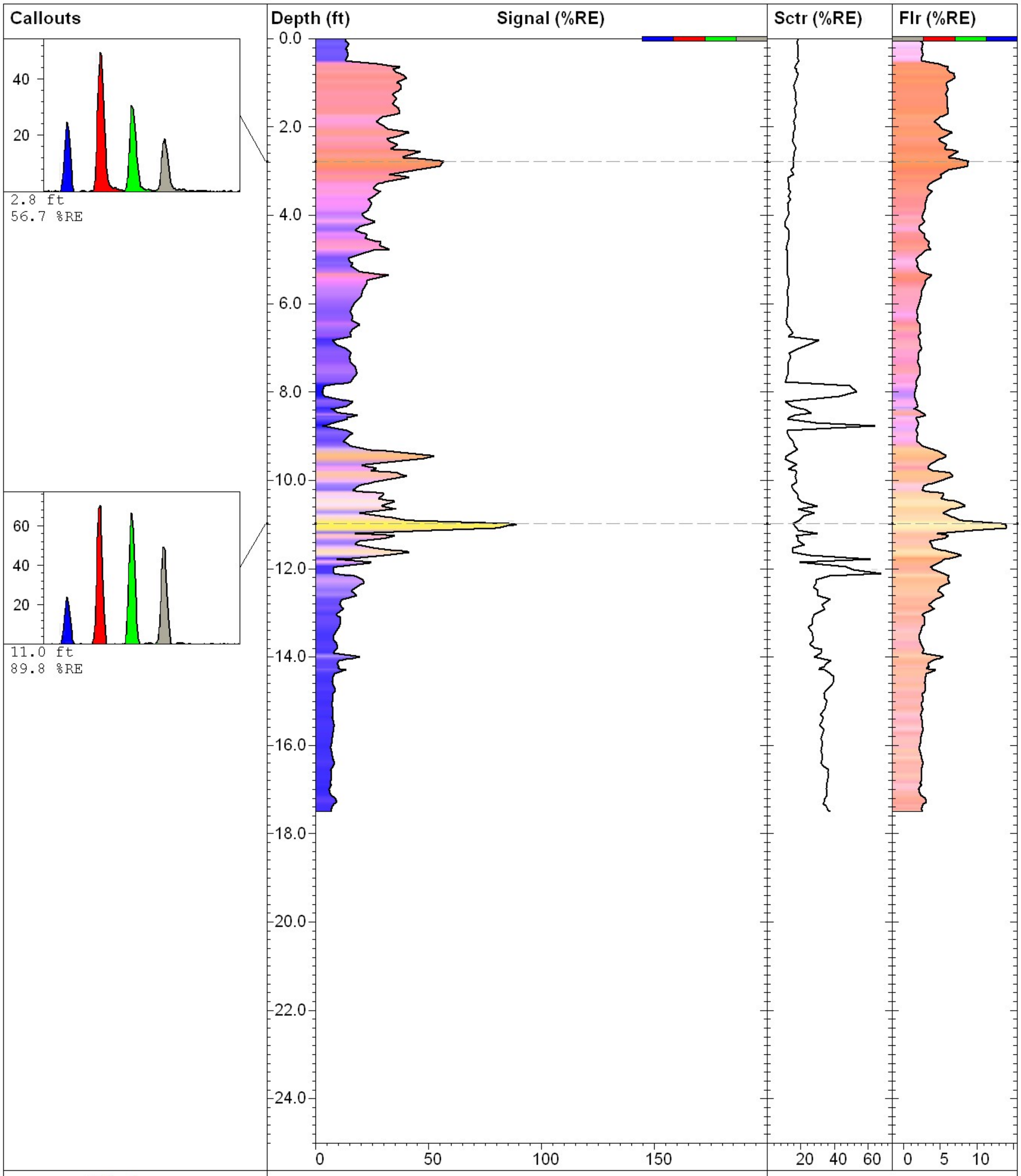
CRAW_TG032

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.289743 N / NAD83**	*Final depth:* **10.62 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.283719 W**	*Max signal:* **20.9 % @ 4.92 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 9:28:00 AM**



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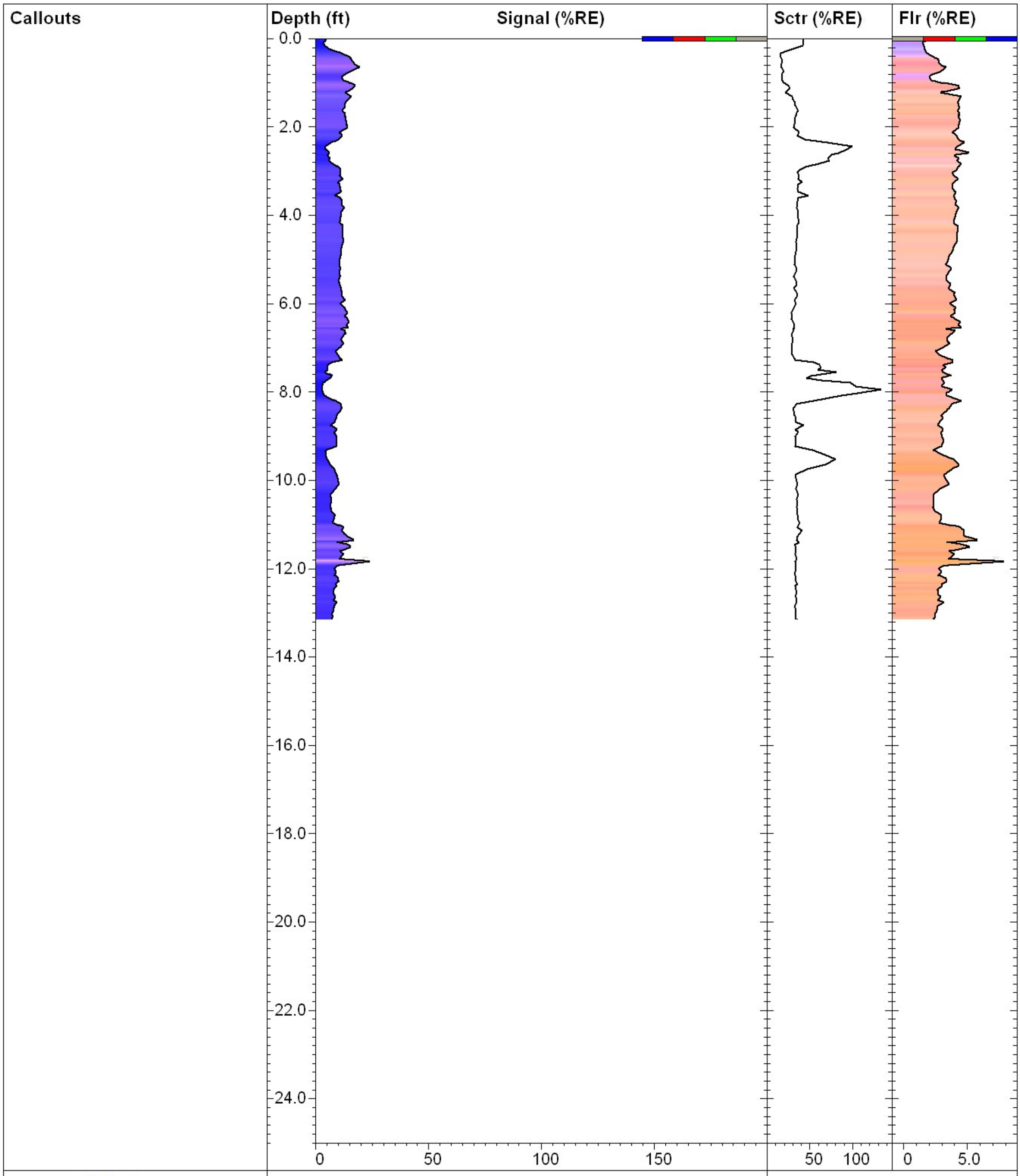
CRAW_TG033		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.283662 N / NAD83**	*Final depth:* **17.51 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.256817 W**	*Max signal:* **89.8 % @ 10.98 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 10:14:04 AM**



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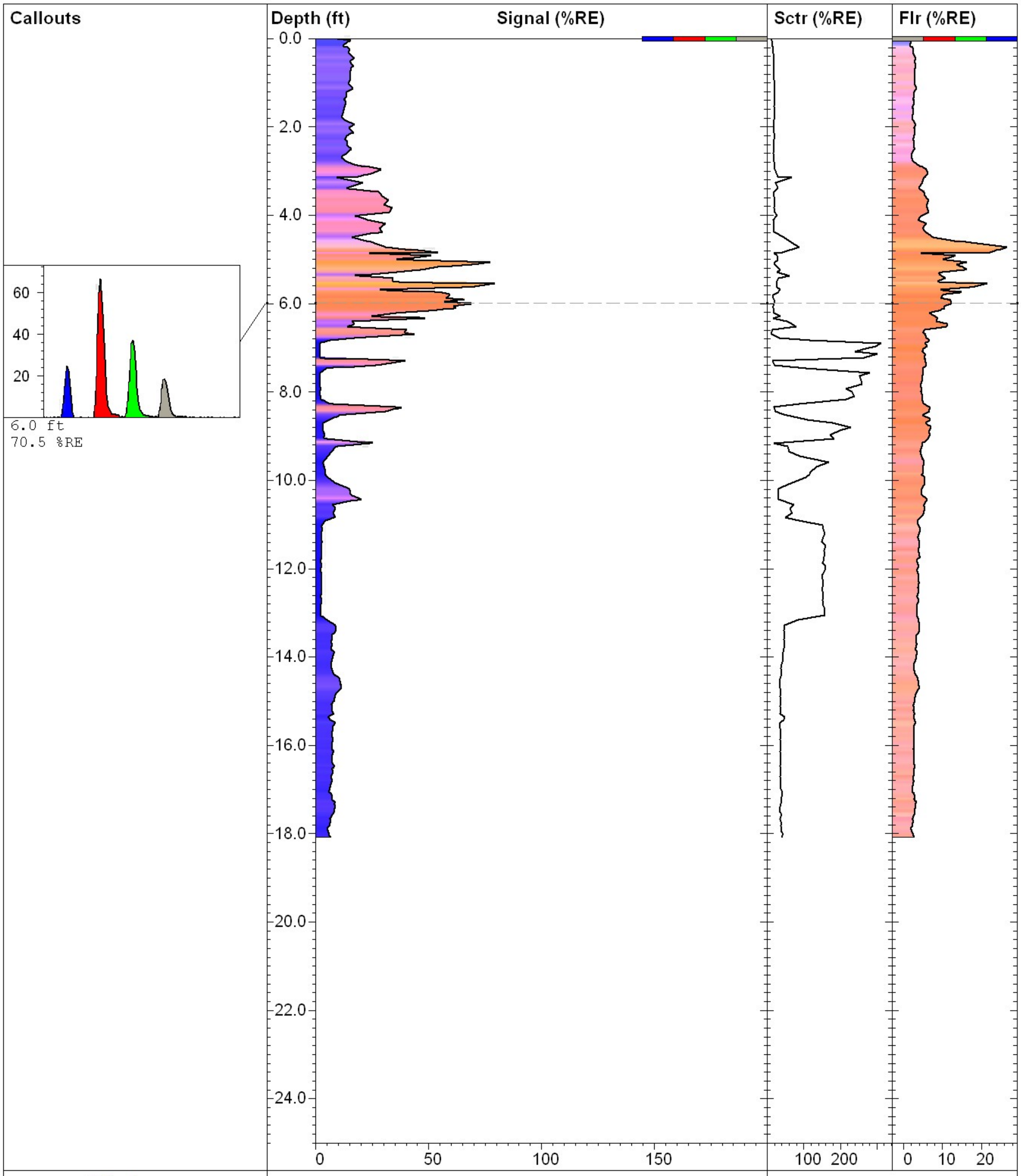
CRAW_TG034

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.298229 N / NAD83**	*Final depth:* **13.16 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.257513 W**	*Max signal:* **24.4 % @ 11.84 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 10:57:54 AM**



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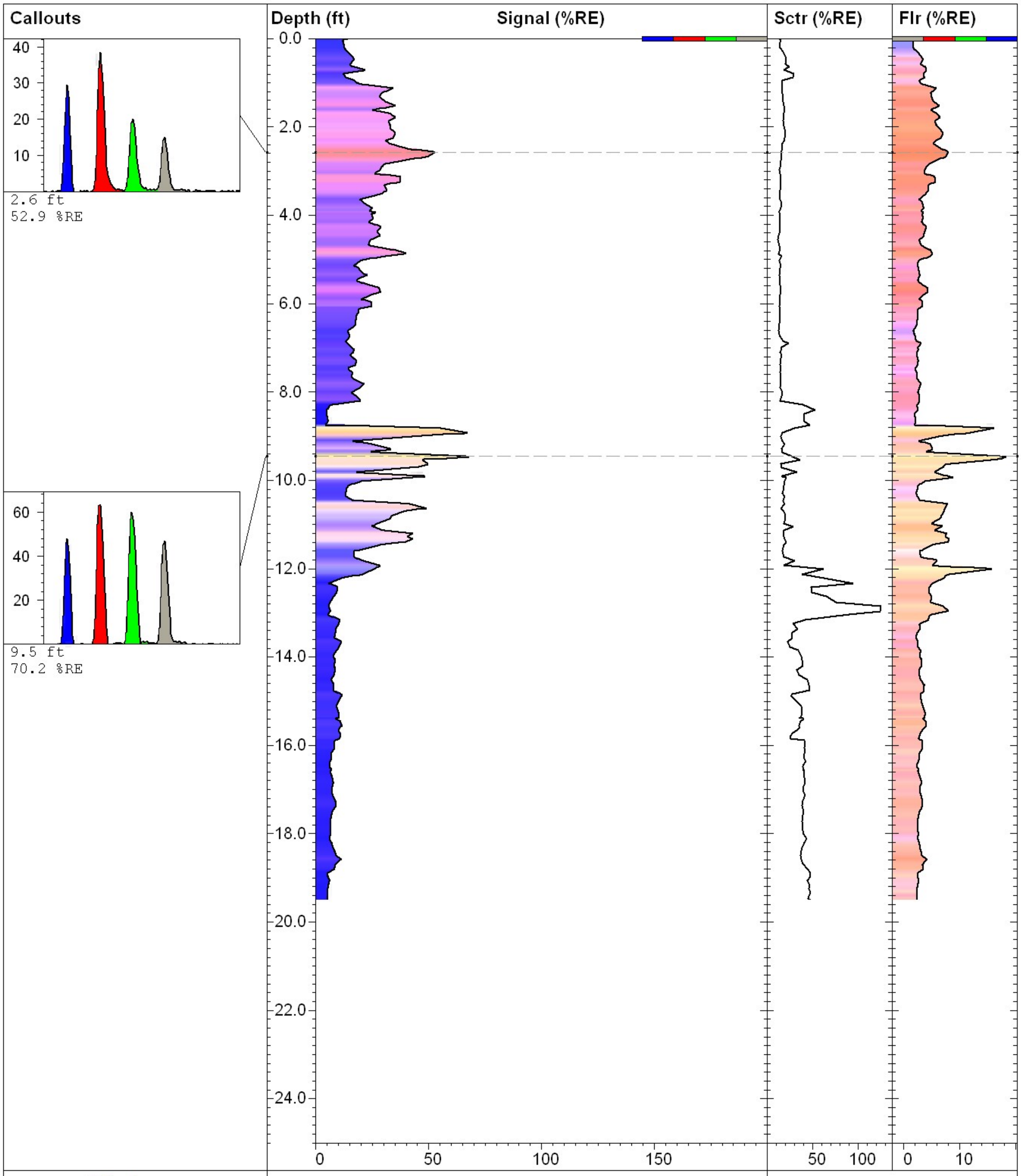
CRAW_TG035		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.292431 N / NAD83**	*Final depth:* **18.09 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.256206 W**	*Max signal:* **79.3 % @ 5.55 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 11:51:18 AM**



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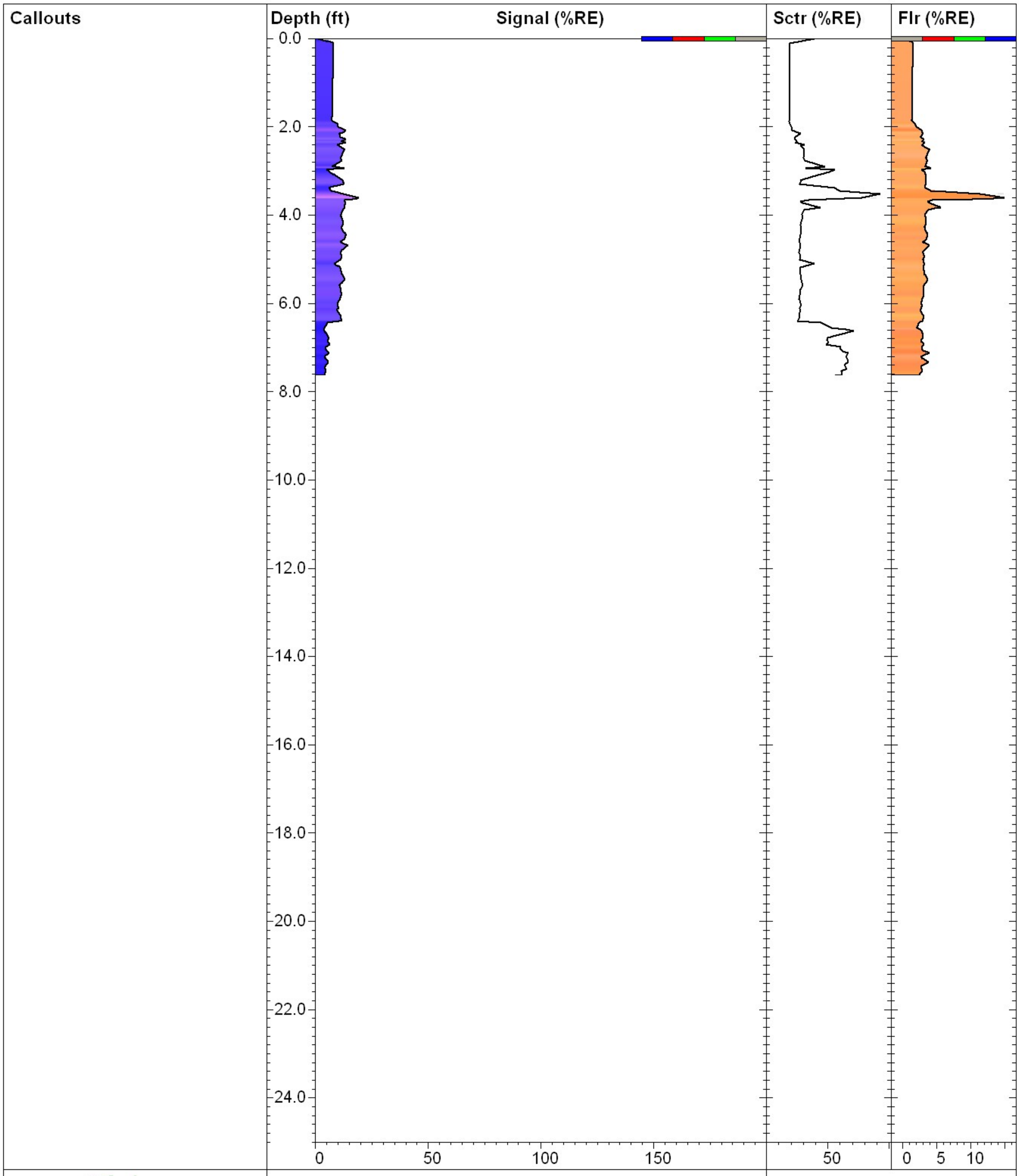
CRAW_TG036		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.284132 N / NAD83**	*Final depth:* **19.50 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.251210 W**	*Max signal:* **70.2 % @ 9.46 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 1:17:40 PM**



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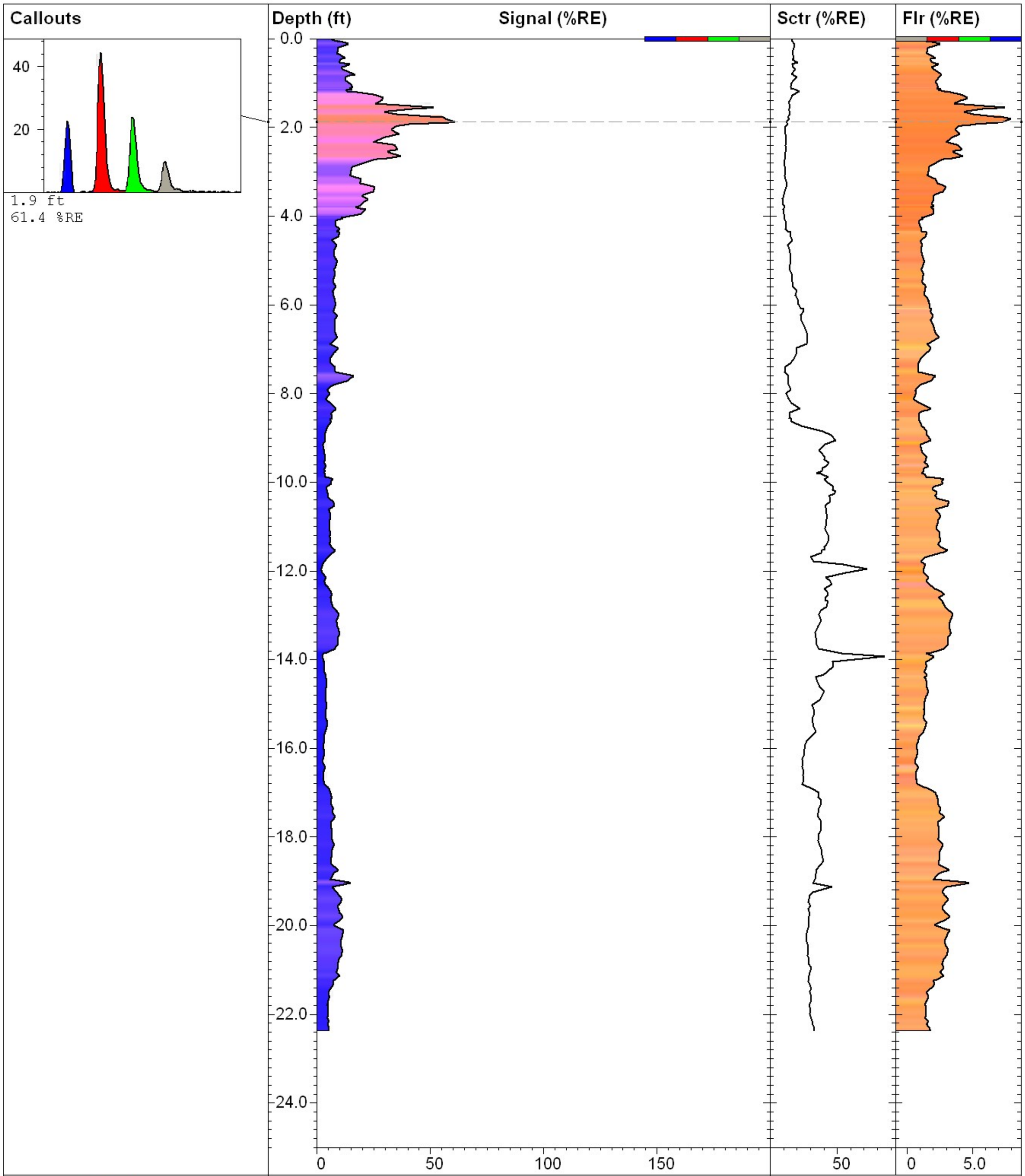
CRAW_TG037

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.300970 N / NAD83**	*Final depth:* **7.64 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.245190 W**	*Max signal:* **19.4 % @ 3.61 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/6/2007 3:27:08 PM**



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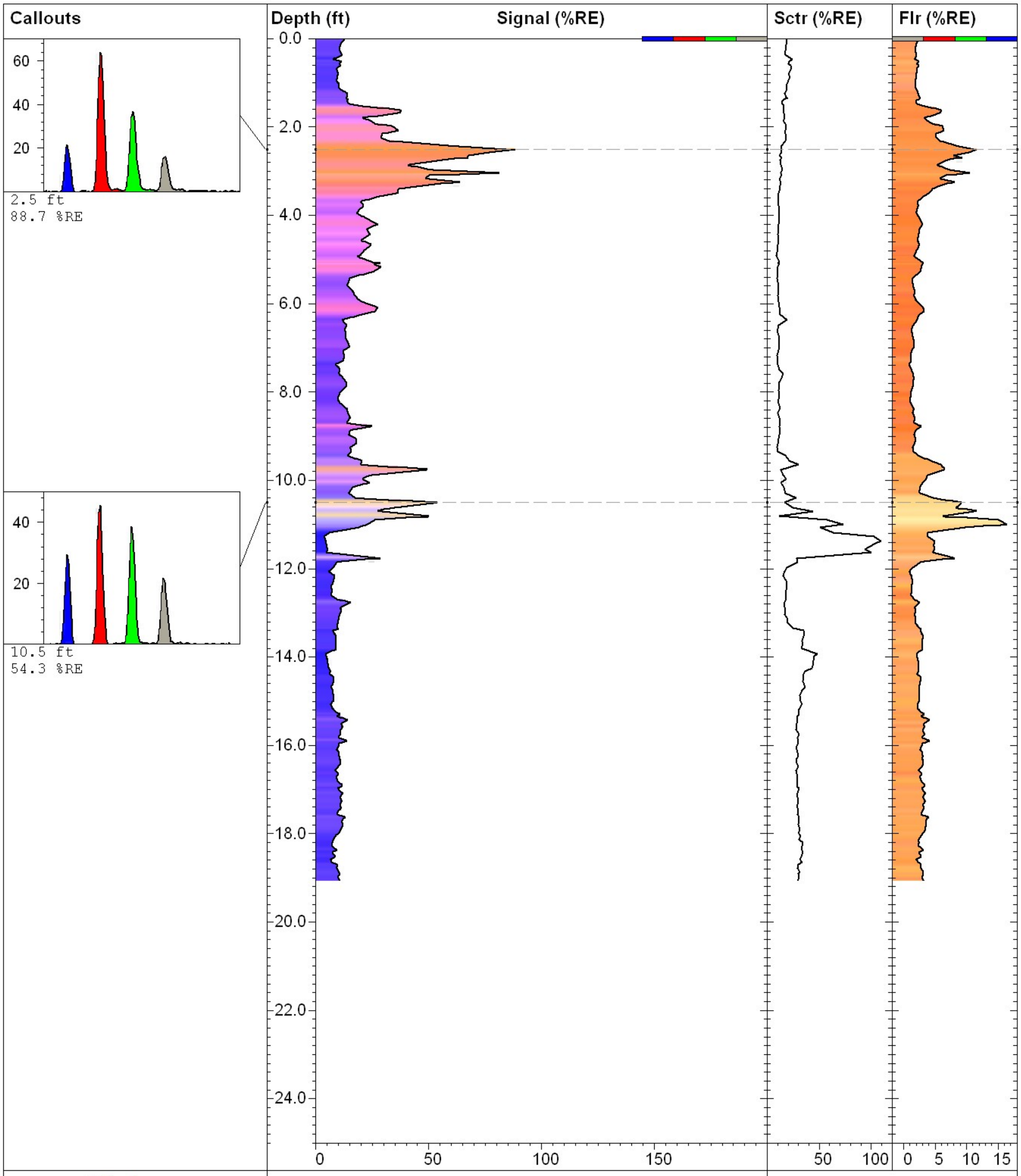
CRAW_TG038

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.298148 N / NAD83**	*Final depth:* **22.38 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.240311 W**	*Max signal:* **61.4 % @ 1.88 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 9:13:21 AM**



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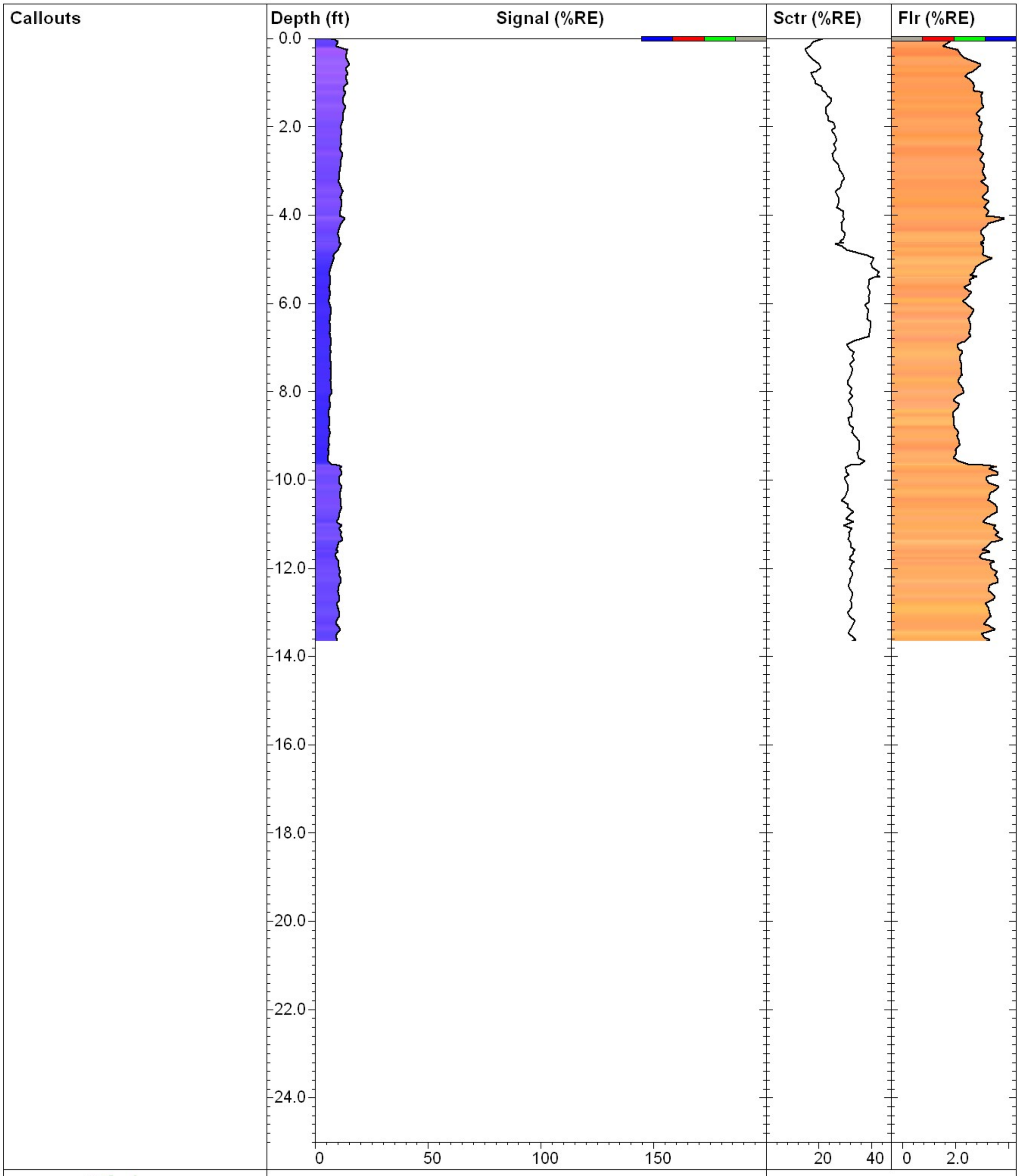
CRAW_TG039		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.290210 N / NAD83**	*Final depth:* **19.08 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 44.236920 W**	*Max signal:* **88.7 % @ 2.51 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 10:10:27 AM**



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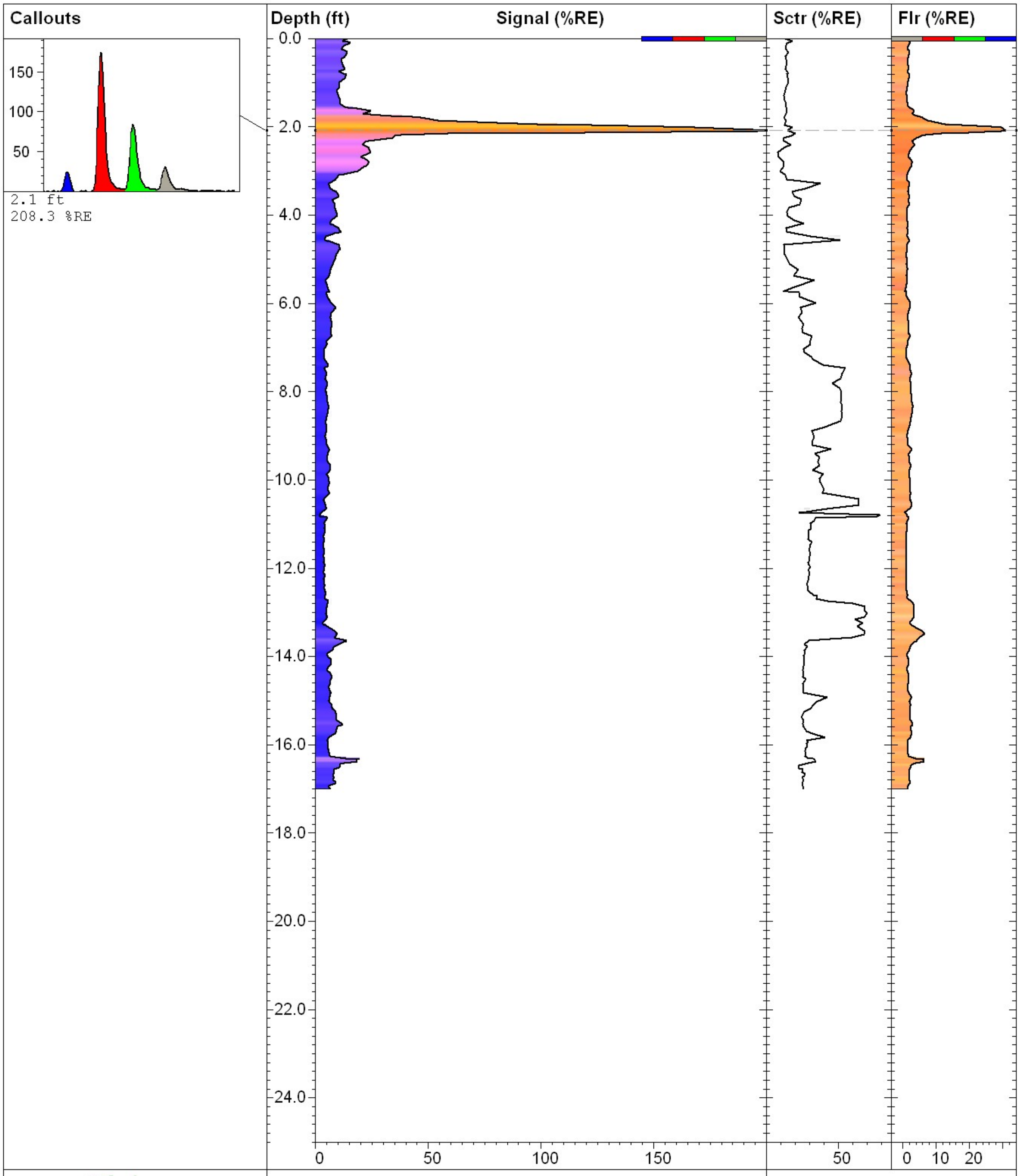
CRAW_TG040

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.490964 N / NAD83**	*Final depth:* **13.66 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.656123 W**	*Max signal:* **15.0 % @ 0.58 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 11:10:45 AM**



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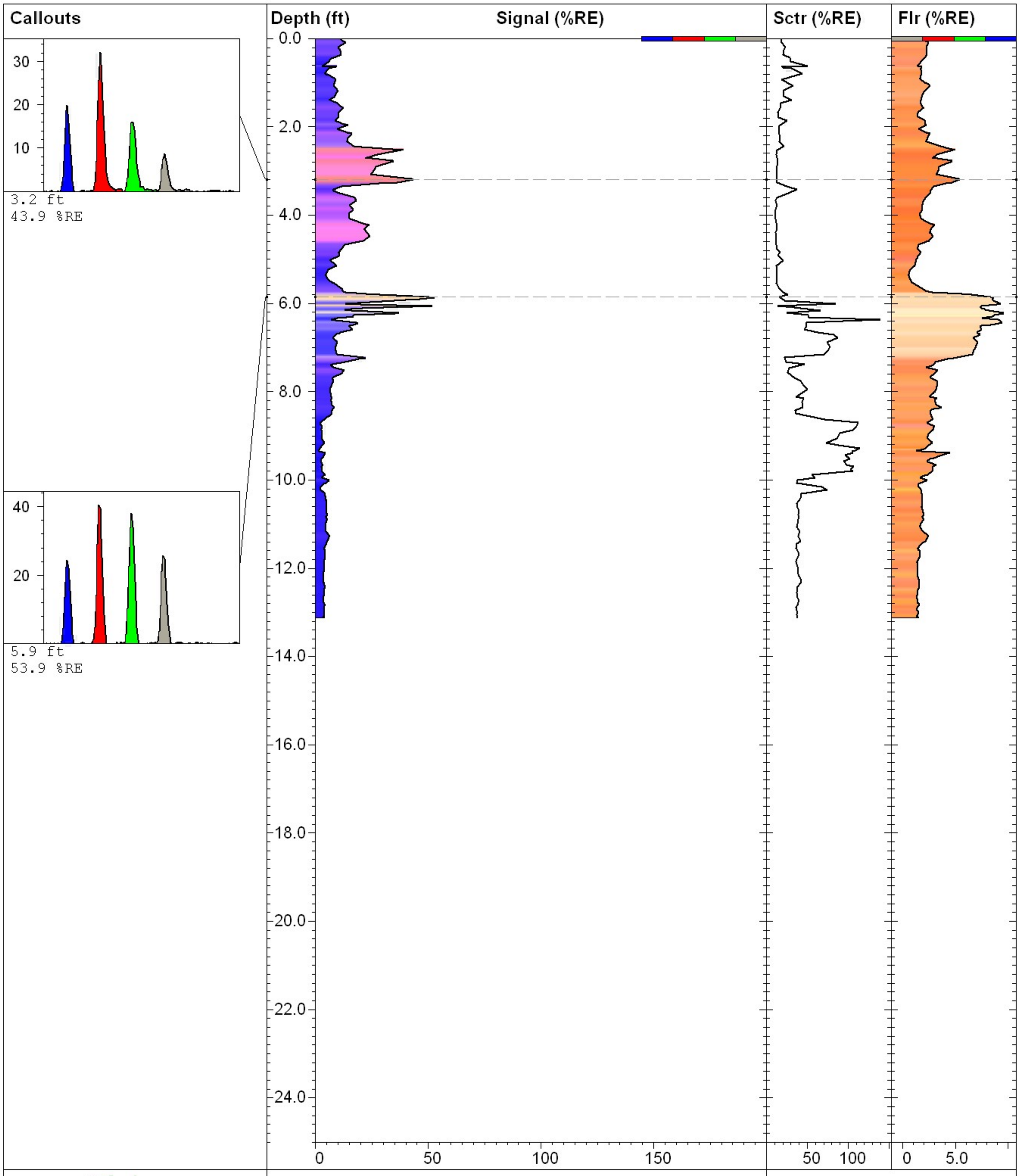
CRAW_TG041		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.484256 N / NAD83**	*Final depth:* **17.01 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.651941 W**	*Max signal:* **208.3 % @ 2.09 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 11:52:35 AM**



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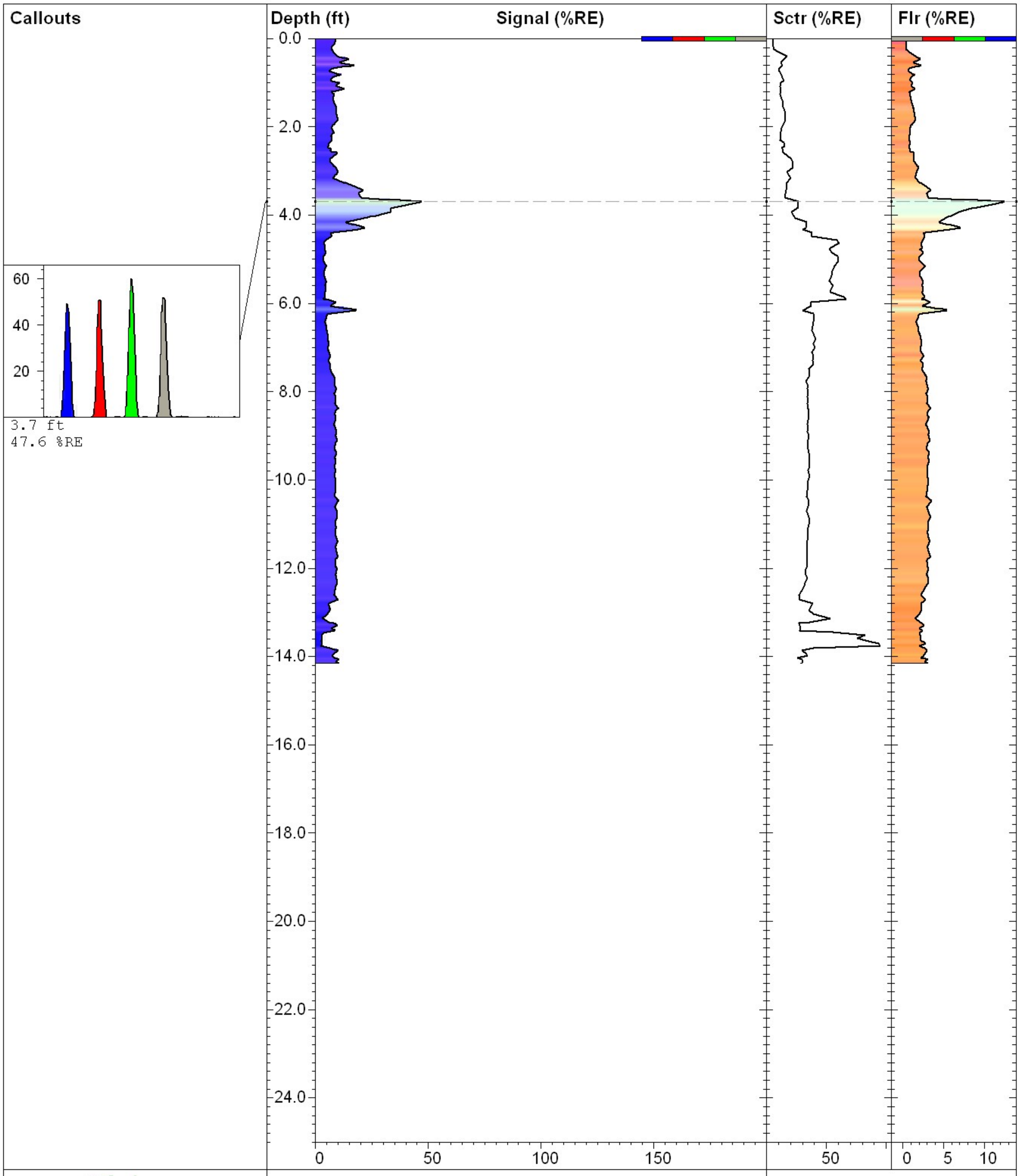
CRAW_TG042		TarGOST
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.475781 N / NAD83**	*Final depth:* **13.13 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.648746 W**	*Max signal:* **54.0 % @ 6.06 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 1:24:24 PM**



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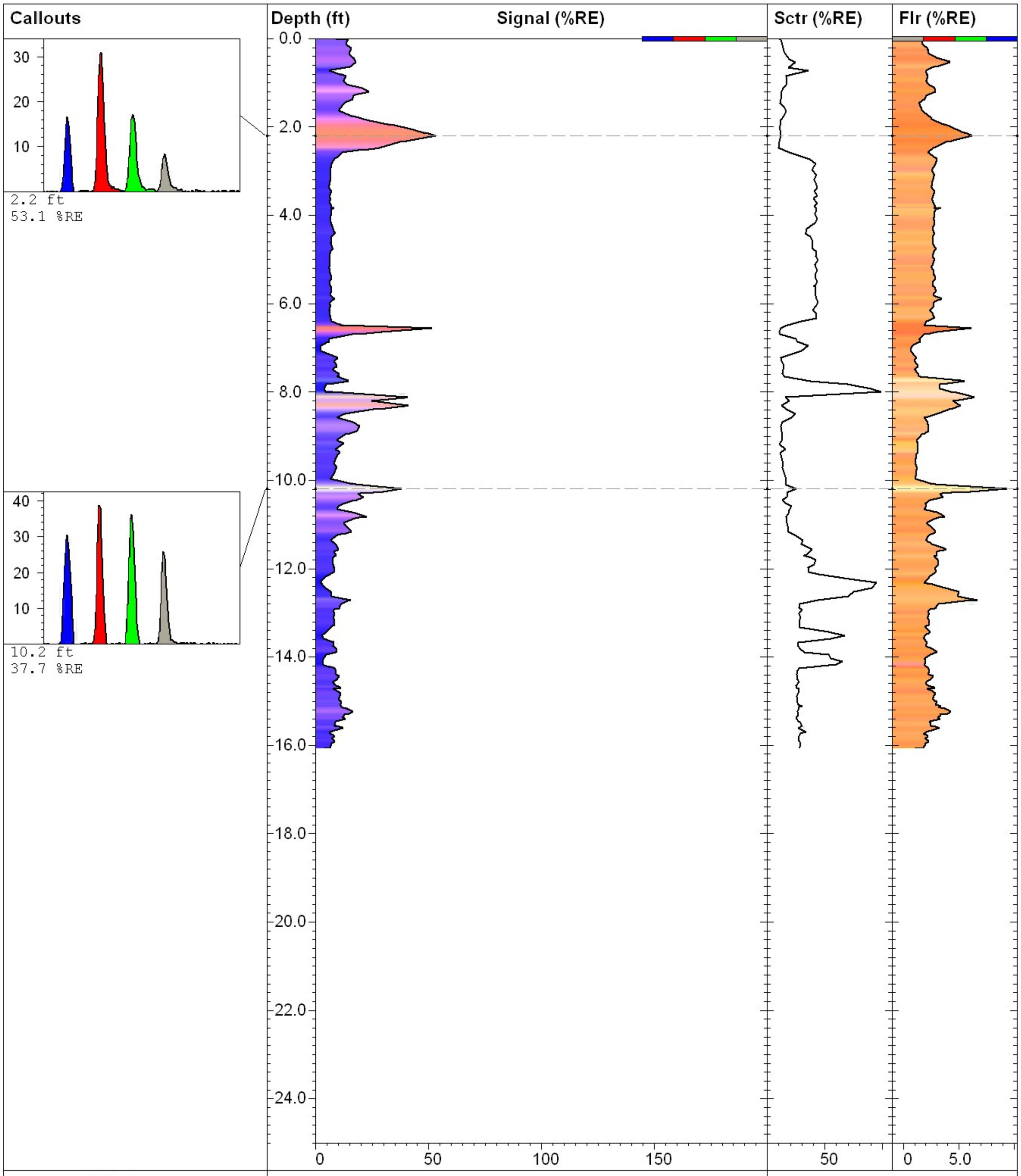
CRAW_TG043		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.491779 N / NAD83**	*Final depth:* **14.16 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.646496 W**	*Max signal:* **47.6 % @ 3.70 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 2:15:09 PM**



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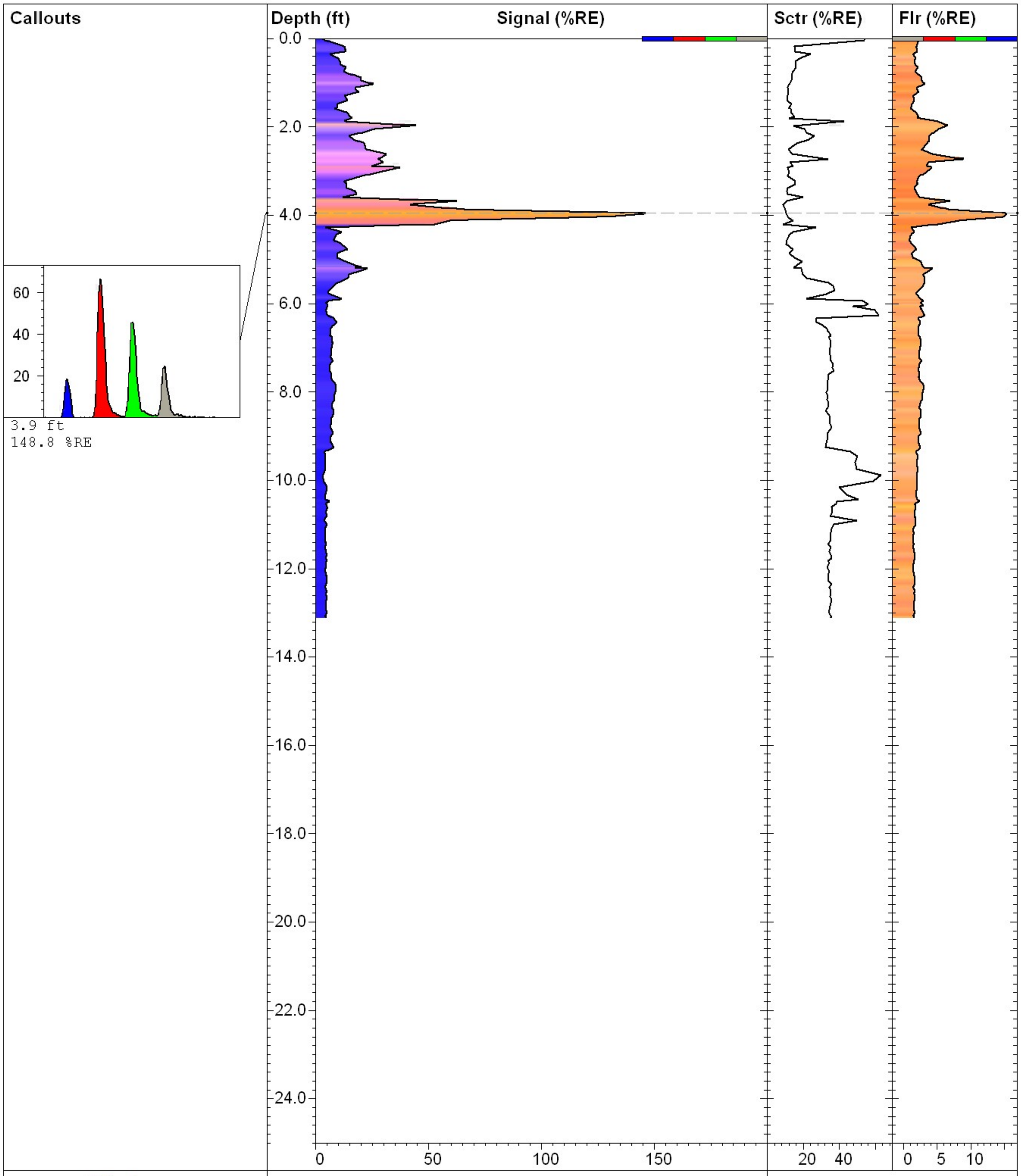
CRAW_TG044		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.486227 N / NAD83**	*Final depth:* **16.07 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.642067 W**	*Max signal:* **53.1 % @ 2.20 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 3:02:00 PM**



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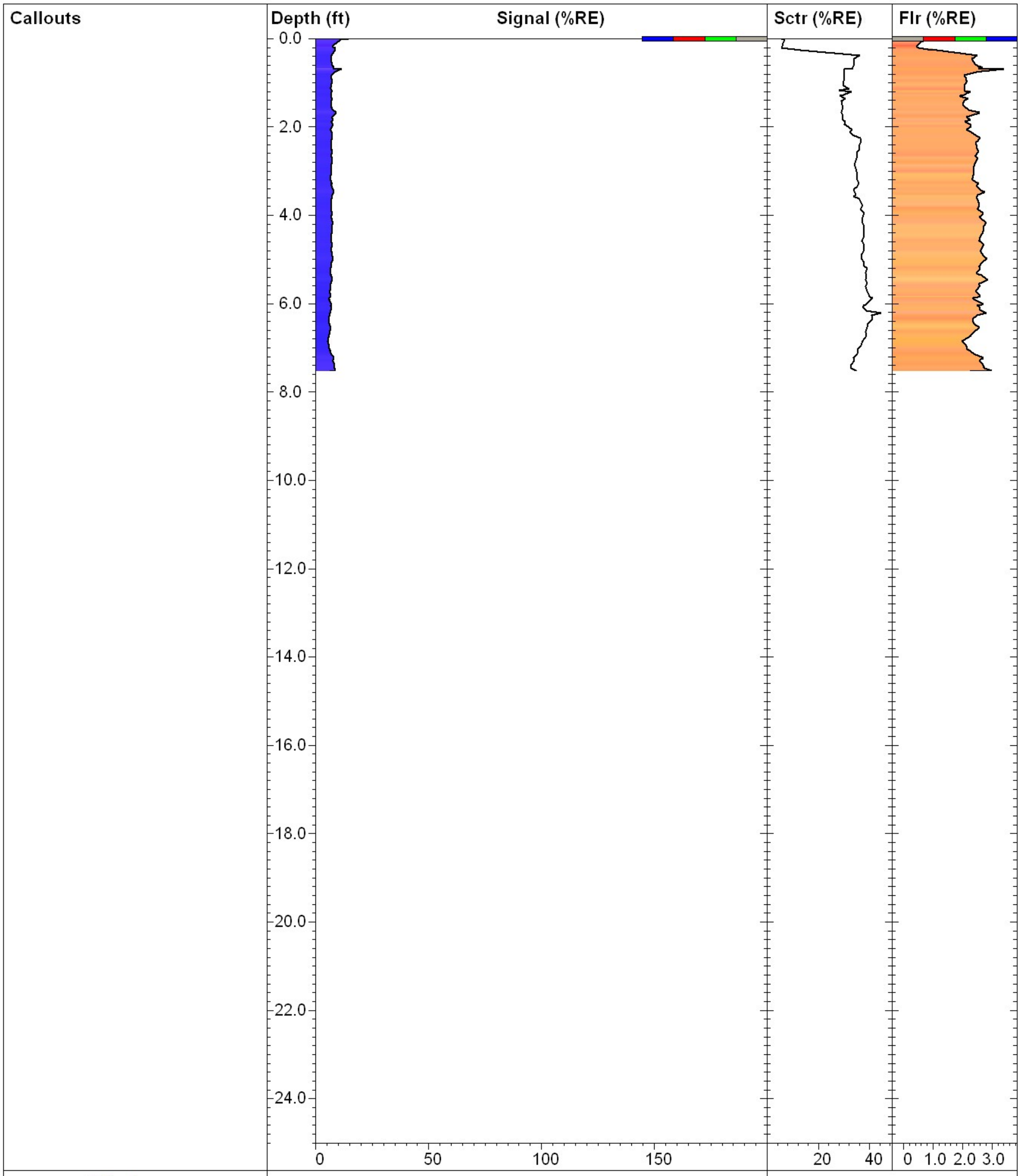
CRAW_TG045		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.477888 N / NAD83**	*Final depth:* **13.13 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.638194 W**	*Max signal:* **148.8 % @ 3.95 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/7/2007 3:56:10 PM**



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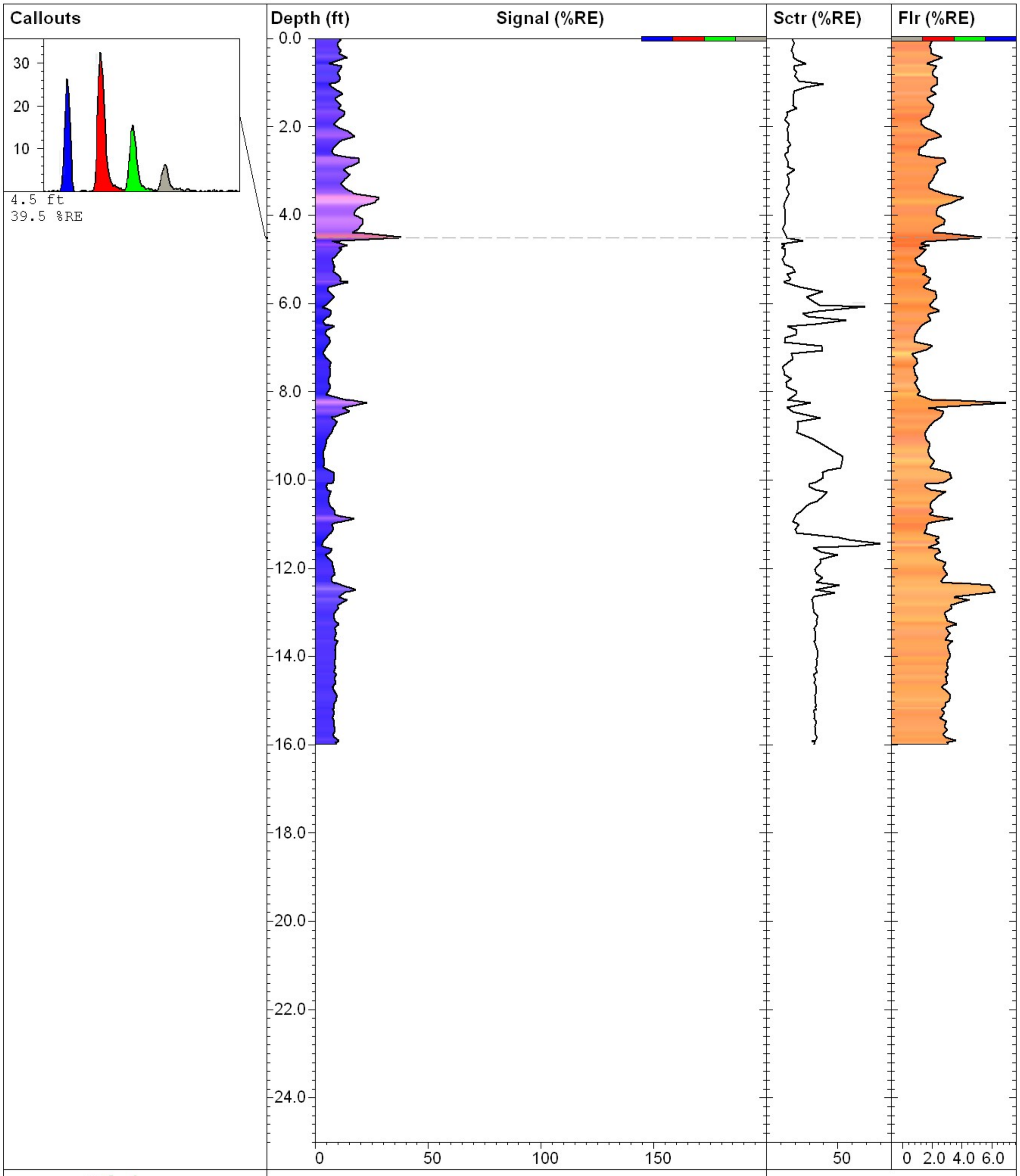
CRAW_TG046		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.523567 N / NAD83**	*Final depth:* **7.53 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.544334 W**	*Max signal:* **14.2 % @ 0.00 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 9:26:59 AM**



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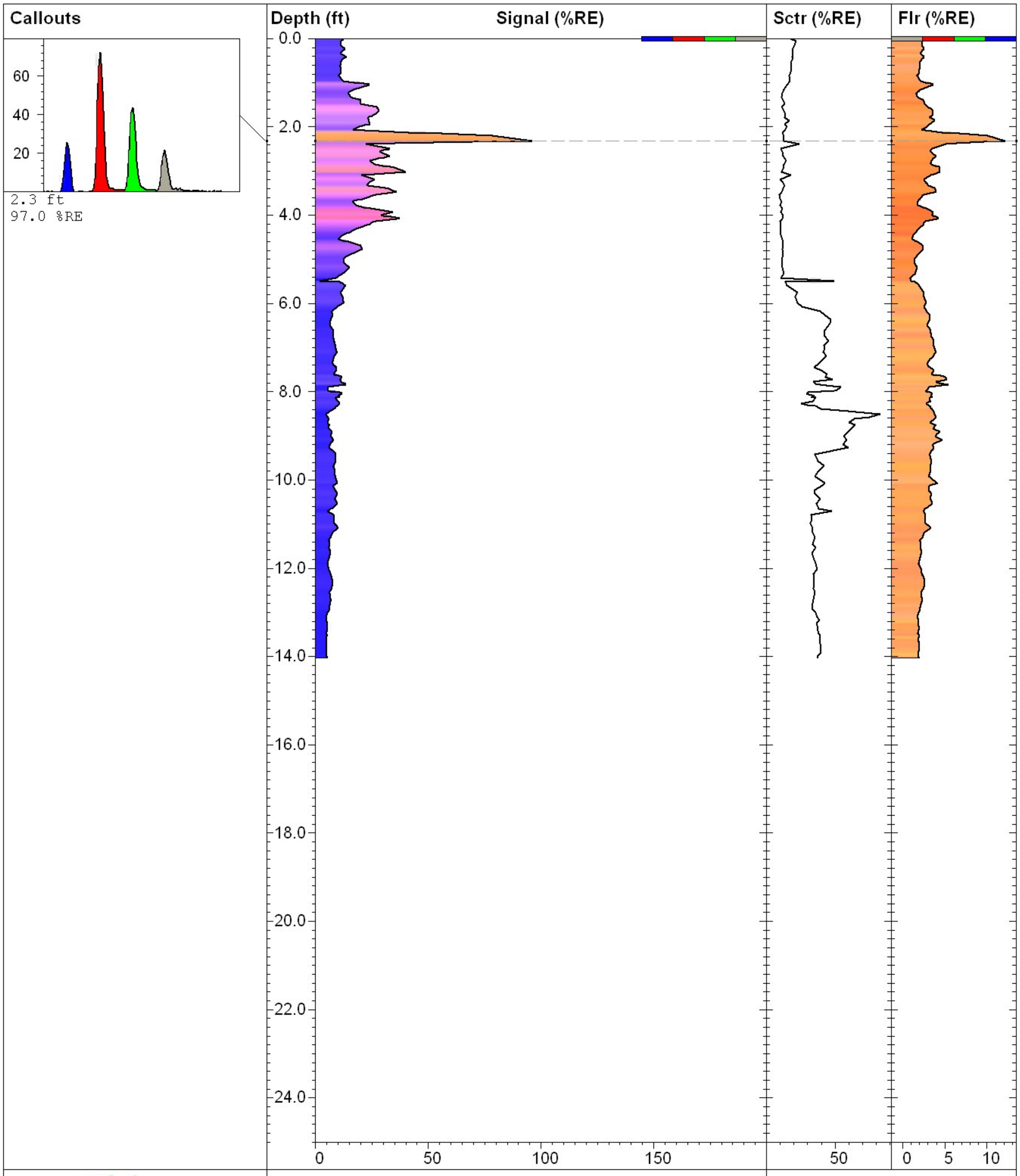
CRAW_TG047		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.518302 N / NAD83**	*Final depth:* **16.00 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.540021 W**	*Max signal:* **39.5 % @ 4.51 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 10:25:37 AM**



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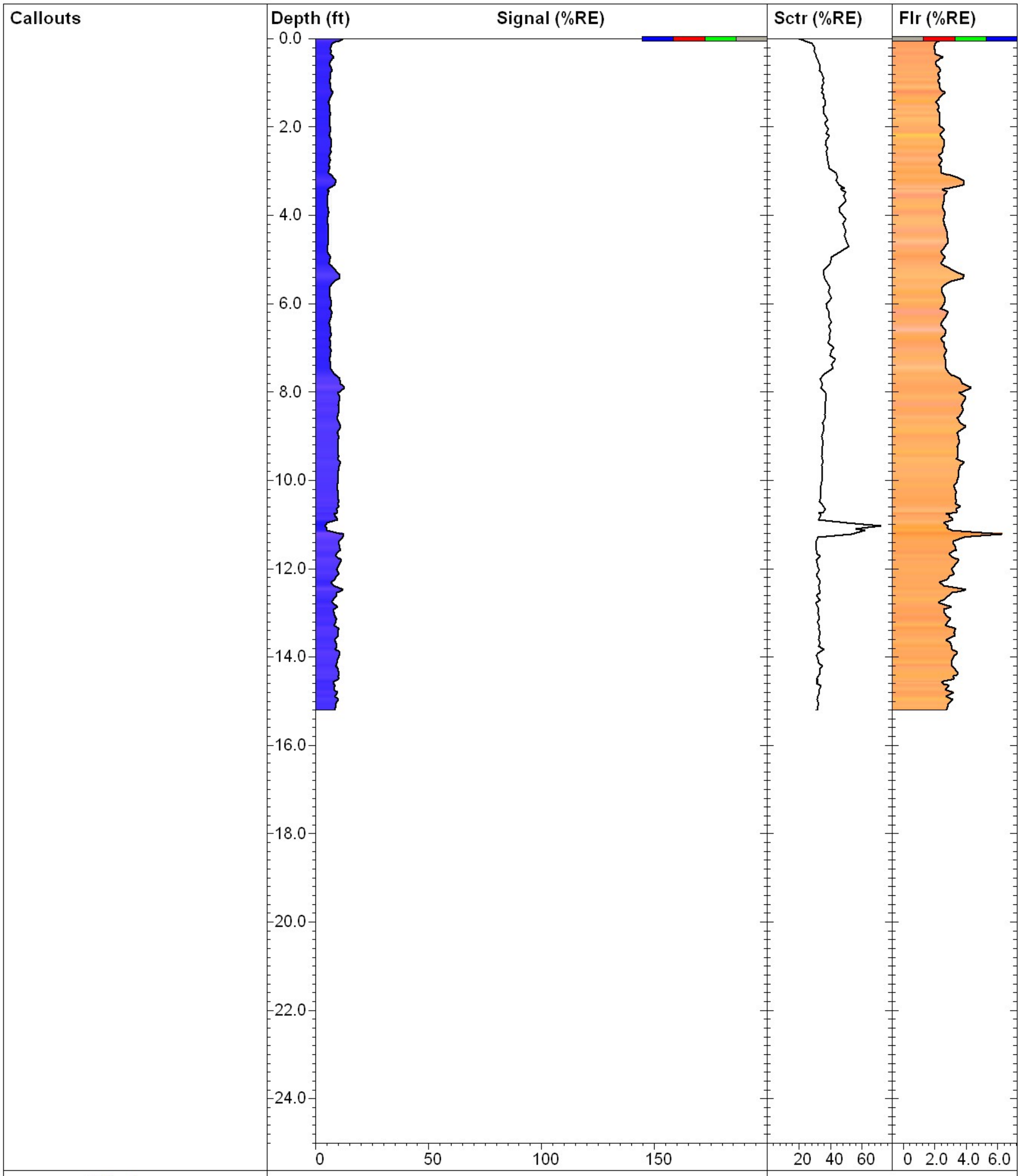
CRAW_TG048

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.511235 N / NAD83**	*Final depth:* **14.04 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.536784 W**	*Max signal:* **97.0 % @ 2.32 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 11:05:12 AM**



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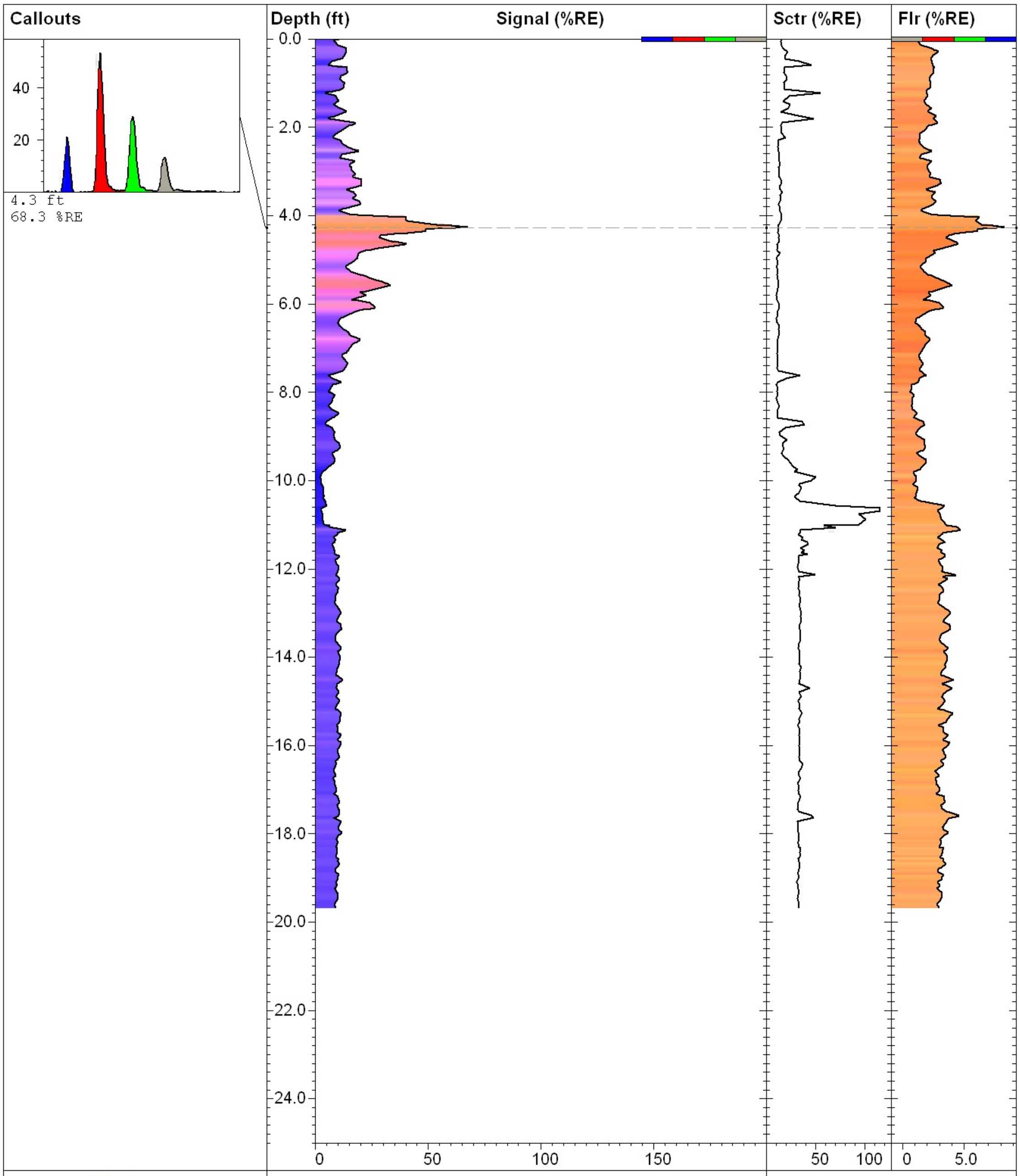
CRAW_TG049

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.527414 N / NAD83**	*Final depth:* **15.21 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.533598 W**	*Max signal:* **12.7 % @ 7.90 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 12:12:04 PM**



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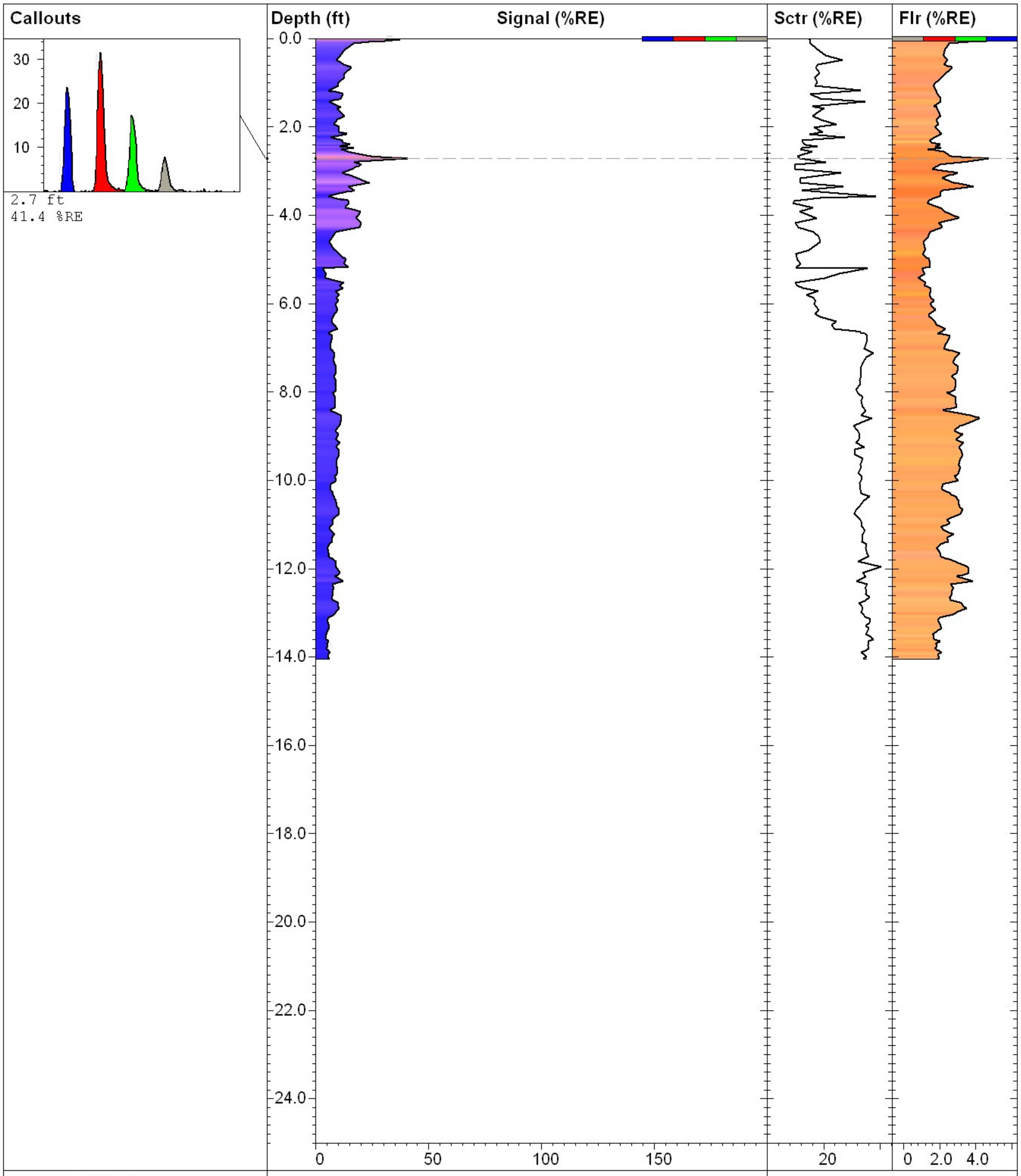
CRAW_TG050

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.520586 N / NAD83**	*Final depth:* **19.69 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.530119 W**	*Max signal:* **68.3 % @ 4.27 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 1:39:39 PM**



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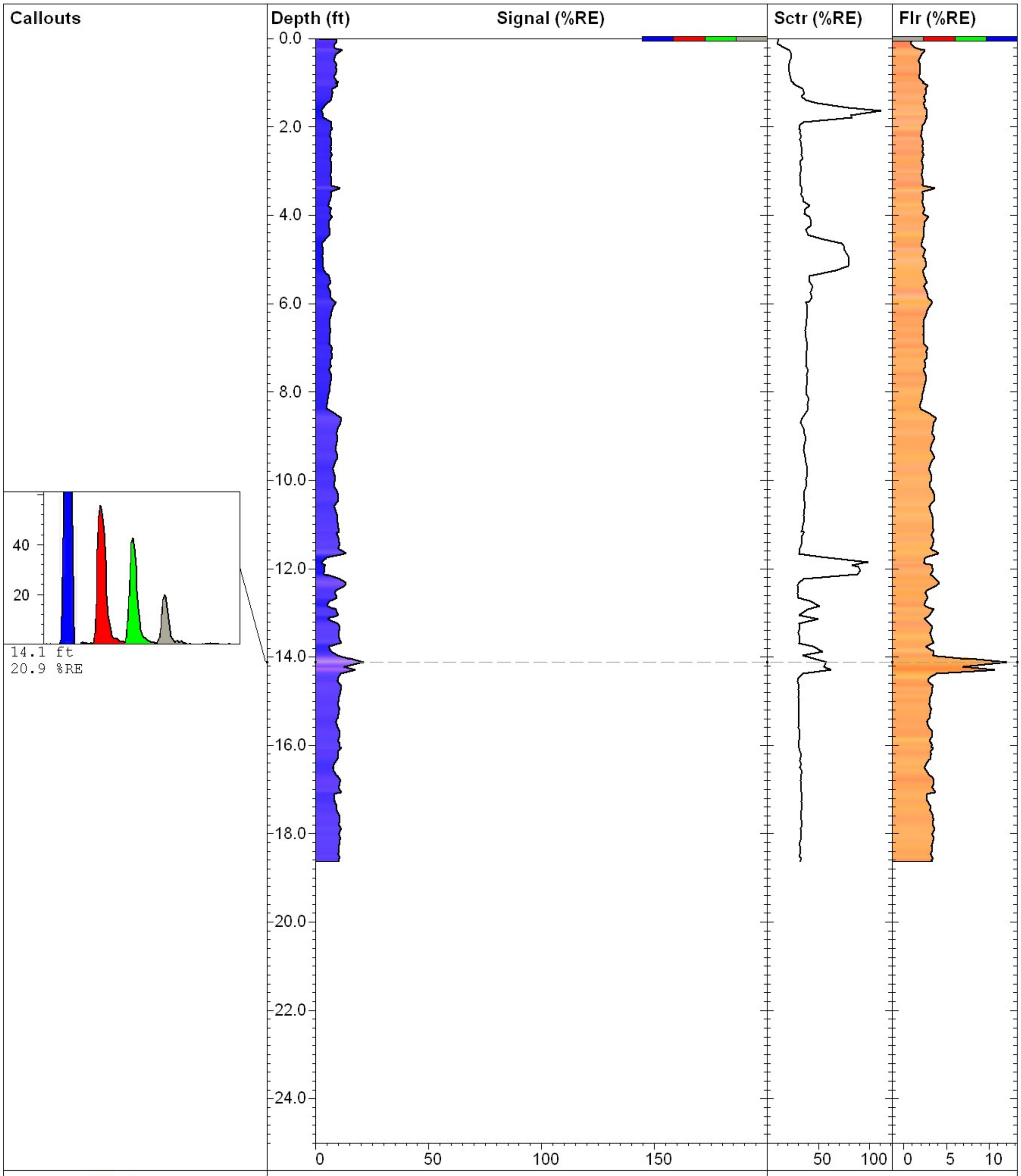
CRAW_TG051		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.512232 N / NAD83**	*Final depth:* **14.07 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.526220 W**	*Max signal:* **41.4 % @ 2.72 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 2:26:46 PM**



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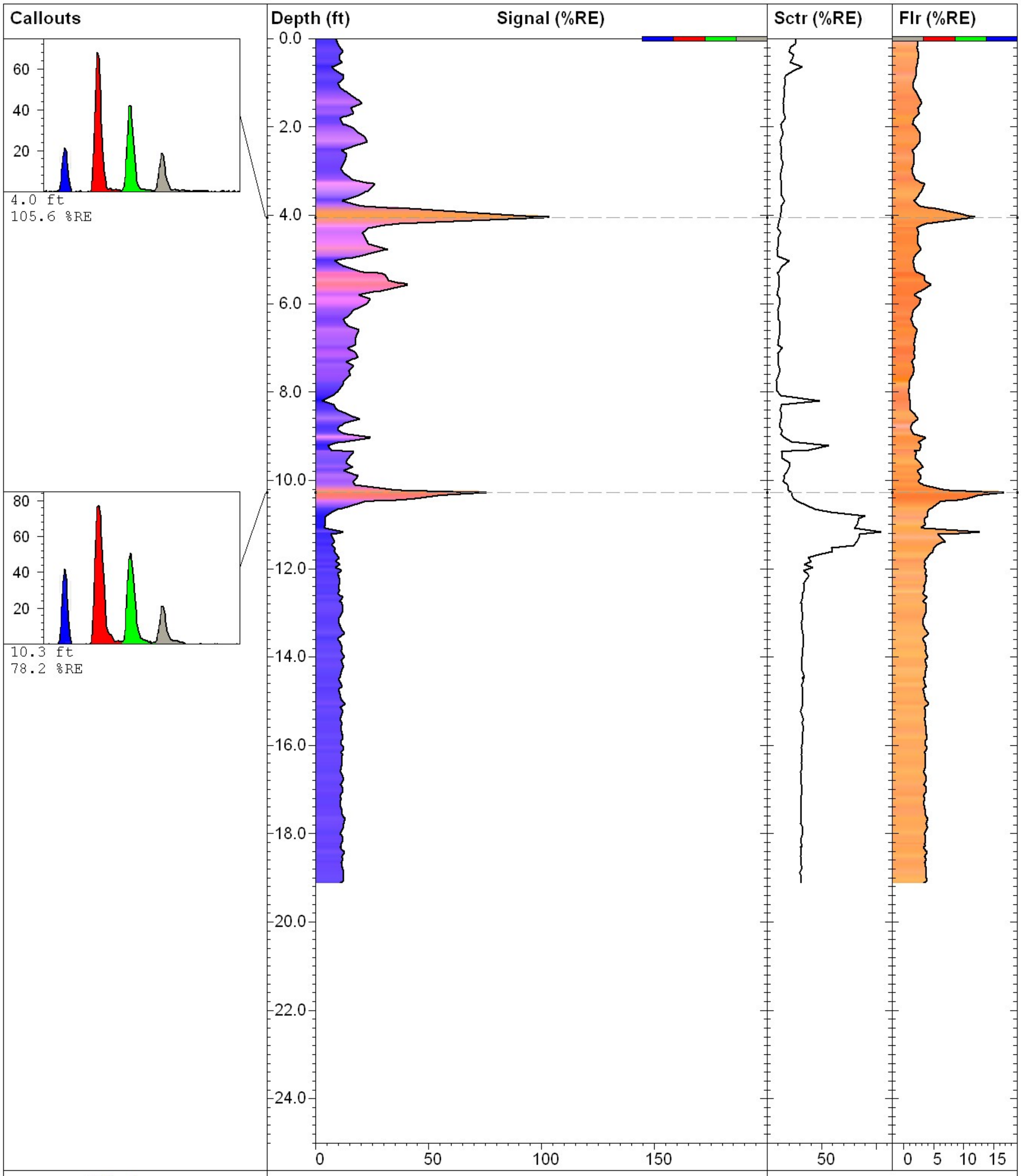
CRAW_TG052

TarGOST

Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.527928 N / NAD83**	*Final depth:* **18.64 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.528681 W**	*Max signal:* **20.9 % @ 14.12 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/8/2007 3:20:59 PM**



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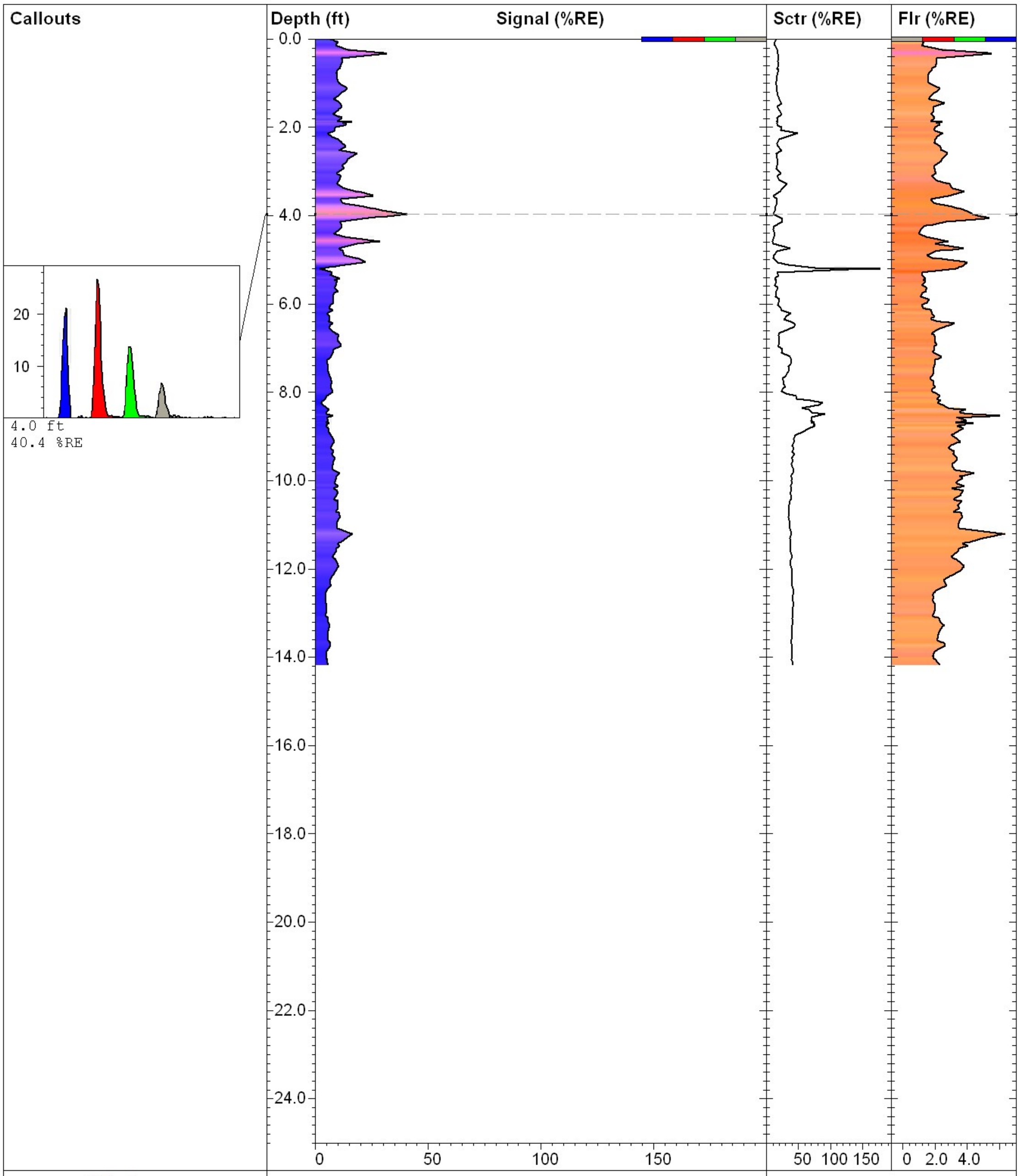
CRAW_TG053		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.522177 N / NAD83**	*Final depth:* **19.13 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.524967 W**	*Max signal:* **105.6 % @ 4.05 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/9/2007 10:03:38 AM**



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CRAW_TG054		**TarGOST**
Site: **Crawford - Chicago, IL**	*Latitude / System:* **41 49.513984 N / NAD83**	*Final depth:* **14.18 ft**
Client: **Burns & McDonnell**	*Longitude:* **087 43.521167 W**	*Max signal:* **40.4 % @ 3.96 ft**
Job:	*Operator/Unit:* **Steve Adamek/DTI02**	*Date & Time:* **3/9/2007 10:42:07 AM**

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CANAL SEDIMENT INVESTIGATION
SEDIMENT BORING LOGS

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Drilling Log

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Burns & McDonnell
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Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB009
Coordinates: N 1877941.797 E 1146431.341		Sediment Elevation (CCD): -17.36	Page: 1 of 2
Total Depth (feet): 12	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.66
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-7-07	To: 3-7-07	Logged By: Carl Kozłowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-18	1	Black (N1) coarse to fine SAND (SM), heavy sheen, some silt, trace clay, loose, saturated		SS	1	1 1 1 1	2	1.3/2		70 85	Sample intervals SS-1 through SS-4 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals. Sample interval SS-1 collected using trap door retainer. All other sample intervals collected using a basket retainer. Slight tar odor (0.4') Pertoleum like odor (1-1.3')
-19	2										
-20	3			SS	2	1 WOH WOH WOH		0.2/2		52	
-21	4										
-22	5			SS	3	WOH WOH WOH WOH		1/2		75	
-23	6	Black (N1) organic SILT (OL), heavy sheen, some coarse to fine sand, trace animal hair, very loose, wet		SS	4	WOH 4 4 4	8	2/2	1.5	125 150	Heavy petroluem like odor (6-7.4') Sample 001 (6.8-7.4') collected at 1015
-24	7										
-25	8	light olive Gray (5Y 6/1) CLAY (CL), trace coarse to fine sand, trace silt, stiff, low plasticity, moist stiff to hard, low to no plasticity		SS	5	5 8 12 15	20	1.3/2	4.5+	0	
-26	9										
-27	10			SS	6	9 14 15 24	29	1.6/2	4.5+	0	
-28	11										
-29											

Depth to water while drilling
Depth to water after drilling

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Drilling Log, continued

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Project Name	Former Crawford Station
Project Number	39180
Boring/Monitoring Well Number	CSB009
Page	2 of 2
Date	3-7-07

Elevation (CCD)	Depth (feet)	Description	Graphic Log	SAMPLING: Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks
		End of boring 12 feet below top of sediment									WOH = Weight of Hammer
-30	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										

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Drilling Log

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Project Name: Former Crawford Station		Project No: 39180	Boring/Monitoring Well Number: CSB014
Coordinates: N 1877997.502 E 1146433.136		Sediment Elevation (CCD): -11.86	Page: 1 of 2
Total Depth (feet): 18	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.660
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-7-07	To: 3-7-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks (▽ Depth to water while drilling; ▼ Depth to water after drilling)
-12		Black (N1) organic SILT (OL), heavy sheen, trace coarse to fine sand, trace clay, very loose, wet									Sample intervals SS-1 through SS-3 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals Strong petroleum odor (0-11 2')
-13	1	Black (N1) coarse to fine SAND (SM), sheen, trace silt, very loose, wet		SS	1	WOH WOH 1 1		1.6/2		63 92	
-14	2			SS	2	WOH WOH WOH WOH		0.6/2		96	
-15	3										
-16	4	sheen to heavy sheen		SS	3	WOH WOH WOH 1		2/2		10 155	Sample 001 (5.3-6') collected at 1145
-17	5										
-18	6			SS	4	WOH WOH WOH WOH		2/2		123	
-19	7										
-20	8			SS	5	WOH WOH 1 1		1.6/2		85	
-21	9										
-22	10			SS	6	WOH WOH WOH 3		1.2/2		65	
-23	11										

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Drilling Log, continued

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Burns & McDonnell
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Project Name: Former Crawford Station
Project Number: 39180

Boring/Monitoring Well Number: CSB014
Page: 2 of 2
Date: 3-7-07

Elevation (CCD)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks
-24		tar saturated (12-13.7)				WOH					Strong tar odor (12-13.7')
-25	13			SS	7	1 1 1	2	2/2	1.5	240	Sample 002 (13.1-13.7') collected at 1210
		tar saturated straw-like material, little animal hair									
-26	14	light olive Gray (5Y 6/1) silty CLAY (CL), trace coarse to fine sand, stiff, low plasticity, moist stiff to hard		SS	8	14 17 17 19	34	1.6/2	4.5+	0	
-27	15										
-28	16			SS	9	10 10 14 17	24	2/2	4.5+	0	
-29	17										
	18	End of boring 18 feet below top of sediment									WOH = Weight of Hammer
	19										
	20										
	21										
	22										
	23										
	24										

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Drilling Log

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Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB022
Coordinates: N 1878004.61 E 1146469.885		Sediment Elevation (CCD): -12.85	Page: 1 of 2
Total Depth (feet): 22	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.65
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-7-07	To: 3-7-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-13		olive Black (5Y 2/1) organic SILT (OL), heavy sheen, trace coarse to fine sand, trace clay, very loose, wet		SS	1	WOH WOH WOH WOH		2/2		6 13	Sample intervals SS-1 through SS-3 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals Strong petroleum odor (0-10')
-14	1										
		Black (N1) coarse to fine SAND (SM), heavy sheen, trace silt, very loose, wet									
-15	2			SS	2	WOH WOH WOH WOH		1.6/2		35	
-16	3										
-17	4			SS	3	WOH WOH WOH WOH		2/2		20	
		Black (N1) organic SILT (OL), heavy sheen, some clay, very loose, wet									
-18	5										
-19	6			SS	4	WOH WOH WOH WOH		2/2		14	
-20	7										
-21	8			SS	5	WOH WOH WOH WOH		2/2		35	Sample 001 (9.5-10') collected at 1400
-22	9										
-23	10			SS	6	9 11 11 14	22	1.7/2		175	Strong tar-like odor (10.5-11.6') Sample 002 (10.5-11.6') collected at 1415
-24	11	Black (N1) coarse to fine SAND (SWG) with gravel, tar saturated, little cinders, trace coal fragments, trace plant material, medium dense, moist									

Depth to water while drilling
Depth to water after drilling

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Drilling Log, continued

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Project Name: Former Crawford Station
Project Number: 39180

Boring/Monitoring Well Number: CSB022
Page: 2 of 2
Date: 3-7-07

Elevation (CCD)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks
-25		light olive Gray (5Y 6/1) coarse to fine SAND (SM), some silt, trace clay, medium dense to dense, moist silt seams, trace to no clay, moist to wet									
-26	13			SS	7	8 11 50/4	23.5	1 3/2		4.8	
-27	14										
-28	15			SS	8	19 50/5		0.8/2		10	
-29	16										
-30	17	olive Gray (5Y 4/1) silty CLAY (CL), trace coarse to fine gravel, trace coarse to fine sand, hard, low plasticity, moist		SS	9	6 6 6 34	12	0/2			
-31	18										
-32	19			SS	10	10 19 22 34	41	1.7/2	4.5+	0	
-33	20										
-34	21			SS	11	12 15 33 34	48	1.7/2	4.5+	0	
	22	End of boring 22 feet below top of sediment									WOH = Weight of Hammer
	23										
	24										

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Drilling Log

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Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB039
Coordinates: N 1878104.286 E 1146714.931		Sediment Elevation (CCD): -15.52	Page: 1 of 2
Total Depth (feet): 14	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.72
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-7-07	To: 3-7-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks
-16	1	greenish Black (5GY 2/1) organic SILT (OL), heavy sheen, trace coarse to fine sand, trace clay, very loose, saturated		SS	1	WOH WOH WOH WOH		2/2		7.7	Sample intervals SS-1 through SS-4 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals. Sample interval SS-1 collected using trap door retainer. All other sample intervals collected using a basket retainer. Heavy petroleum like odors (0-7.7')
-17	2	greenish Black (5GY 2/1) to Black (N1), saturated to wet		SS	2	WOH WOH WOH WOH		1.4/2		8.4	
-18	3										
-19	4			SS	3	WOH WOH WOH WOH		2/2		14	Sample 001 (5-6') collected at 1600
-20	5										
-21	6			SS	4	WOH WOH WOH 4		1.7/2		22	
-22	7										
-23	8										
-24	9	Black (N1) coarse to fine SAND (SW), tar coated, heavy sheen, trace silt, loose, wet		SS	5	1 1 1 6	2	1.5/2	2.5 4.5+	15 0	Heavy tar like odors (8.3-9.2') Sample 002 (8.3-8.8') colected at 1610
-25	10	light olive Gray (5Y 6/1) CLAY (CL), trace silt, trace coarse to fine sand, very stiff, low plasticity, moist light olive Gray (5Y 6/1) to olive Gray (5Y 4/1), very stiff to very hard, low to no plasticity		SS	6	7 10 14 19	24	1.5/2	4.5+	0	
-26	11										
-27											

Depth to water while drilling
Depth to water after drilling

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Drilling Log, continued

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Project Name: Former Crawford Station
Project Number: 39180

Boring/Monitoring Well Number: CSB039
Page: 2 of 2
Date: 3-7-07

Elevation (CCD)	Depth (feet)	Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks
-28	13			SS	7	17 26 31 39	57	1.6/2	4.5+	0	
-29	14	End of boring 14 feet below top of sediment									WOH = Weight of Hammer
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										

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Drilling Log

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Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB042
Coordinates: N 1879260.378 E 1149379.896		Sediment Elevation (CCD): -19.65	Page: 1 of 1
Total Depth (feet): 10	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.95
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-8-07	To: 3-8-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetro-meter (TSF)	PID Reading (PPM)	Remarks (▽ Depth to water while drilling; ▼ Depth to water after drilling)
-20	1	greenish Black (5G 2/1) coarse to fine SAND (SWG) with coarse to fine gravel, trace sheen, trace silt, very loose, saturated		SS	1	WOH WOH WOH WOH		0.5/2		6.0	Sample intervals SS-1 through SS-3 were collected with a 3" split spoon; N values are not applicable for density determination 2" split spoon used to collect all other sample intervals.
-21	2	trace glass fragments									
-22	3	Black (N1) coarse to fine SAND (SM), tar saturated (2.2-2.9'), some coarse to fine gravel, loose, wet Black (N1) to olive Gray (5Y 4/1), heavy sheen (2.9-6.4')		SS	2	3 3 3 3	6	1/2		165	Slight petroleum odor (0-0.5') Strong tar-like odor (2-3') Sample 001 (2.2-2.9') collected at 1015
-23	4										
-24	5			SS	3	1 1 1 2	2	1.5/2		20	Strong petroleum and tar-like odor (4-5.5') Sample 002 (4.8-5.5') collected at 1020
-25	6										
-26	7	olive Gray (5Y 4/1) silty CLAY (CL), trace coarse to fine sand, hard, low plasticity, moist silt seam (7.2-7.6')		SS	4	9 14 22 24	36	2/2	4.5+	27 0	Strong petroleum-like odor (6-6.4')
-27	8										
-28	9			SS	5	8 8 14 20	22	1.5/2	4.5+	0	
-29	10	End of boring 10 feet below top of sediment									WOH = Weight of Hammer
	11										

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Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB043
Coordinates: N 1879343.069 E 1149392.623		Sediment Elevation (CCD): -8.55	Page: 1 of 1
Total Depth (feet): 6	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -1.95
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-8-07	To: 3-8-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-9	1	greenish Black (5G 2/1) coarse to fine SAND (SWG), with coarse to fine gravel, tar coated, heavy sheen, loose, saturated		SS	1	3 5 7 7	12	0 4/2		45	Sample intervals SS-1 through SS-2 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals. Sample interval SS-1 collected using a trap door retainer. All other sample intervals collected using a basket retainer. Heavey tar odor (0-0.4') Sample 001 (0-0.4') collected at 1405
-10	2	light olive Gray (5Y 6/1) CLAY (CL), trace silt, trace coarse to fine sand, medium stiff, medium plasticity, moist									
-11	3			SS	2	5 5 5 7	10	2/2	1.25 1.75	0	
-12	4										
-13	5			SS	3	2 3 5 5	8	1.8/2	1.75	0	
-14	6	End of boring 6 feet below top of sediment									
	7										
	8										
	9										
	10										
	11										

Depth to water while drilling
Depth to water after drilling

PRIVILEGED AND CONFIDENTIAL
Subject to the Attorney Client Privilege
and Attorney Work Product Doctrines

Drilling Log

DRAFT

Burns & McDonnell
SINCE 1898

Project Name: Former Crawford Station		Project No.: 39180	Boring/Monitoring Well Number: CSB044
Coordinates: N 1879317.806 E 1149410.475		Sediment Elevation (CCD): -17.19	Page: 1 of 1
Total Depth (feet): 10	Hole Size (inches): 8.25	Driller (s): Gary Swift	Canal Elevation (CCD): -2.09
Drilling Rig: CME55LC		Drilling Company: Mateco Drilling Company	
Date: 3-8-07	To: 3-8-07	Logged By: Carl Kozlowicz	Reviewed by: Jason Blazier	Approved by: Don J. Schilling

Elevation (CCD)	Depth (feet)	Canal Sediment Investigation Description	Graphic Log	Sample Type	Sample Interval	Blow Counts per 0.5'	N Value	Sample Recovery/Length (feet)	Penetrometer (TSF)	PID Reading (PPM)	Remarks
-18	1	olive Gray (5Y 4/1) organic SILT (OL), trace sheen, trace clay, very loose, saturated Black (N1) coarse to fine SAND (SM), sheen, some silt, trace fine gravel, very loose, saturated		SS	1	1 WOH WOH WOH		0.8/2		7	Sample intervals SS-1 through SS-3 were collected with a 3" split spoon; N values are not applicable for density determination. 2" split spoon used to collect all other sample intervals.
-19	2	trace fine to some coarse to fine gravel, trace coal fragments, sheen to tar coated									
-20	3			SS	2	1 1 1 1	2	1/2		20	Sample interval SS-1 collected using a trap door retainer. All other sample intervals collected using a basket retianier. Slight organic odor (0-0.3') Slight petroleum odor (0.3-0.8')
-21	4	tar coated to sheen									
-22	5	olive Gray (5Y 4/1) CLAY (CL), trace coarse to fine gravel, trace coarse to fine sand, trace silt, hard, no plasticity, moist		SS	3	WOH WOH 11 23		1.6/2	4.5+	12 0	Strong tar odor (2.5-3') Sample 001 (2.5-3') collected at 1200 Strong tar odor (4-4.8') Sample 002 (4.3-4.8') collected at 1220
-23	6										
-24	7			SS	4	8 8 10 24	18	1.5/2	4.5+	0	
-25	8										
-26	9			SS	5	6 8 17 24	25	1.6/2	4.5+ 4.5+	0	
-27	10	End of boring 10 feet below top of sediment									WOH = Weight of Hammer
	11										

Depth to water while drilling
Depth to water after drilling

DRAFT

CANAL SEDIMENT INVESTIGATION
PHOTOGRAPHS

DRAFT

Former Crawford Station Adjacent Canal Area
March 5, 2007

Description:

Set-back zone marked in orange on the northern bank of the Chicago Sanitary and Ship Canal. The set-back zone is 50 feet on either side of the 42” diameter gas line. 18’x14.4’ sewer outfall is also visible on the right side of the photograph.

Former Crawford Station Adjacent Canal Area
March 7, 2007

Description:

Canal Soil Boring CRAW-CSB022 split spoon sample containing tar and organic material

Former Crawford Station Adjacent Canal Area
March 7, 2007

Description:

Canal Soil Boring CRAW-CSB014 split spoon sample containing tar impacted material.

Former Crawford Station Adjacent Canal Area
March 8, 2007

Description:

Canal Soil Boring CRAW-CSB042 split spoon sample containing tar-impacted sand and gravel

Former Crawford Station Adjacent Canal Area
March 8, 2007

Description:

Outfall on the northern bank of the Chicago Sanitary and Ship Canal from the service water pump on the Former Crawford Station.

DRAFT

CANAL SEDIMENT INVESTIGATION
FORENSIC ANALYTICAL RESULTS

Environmental Laboratory Report

Peoples Gas – Crawford Station

SDG: BR070313

Report To:

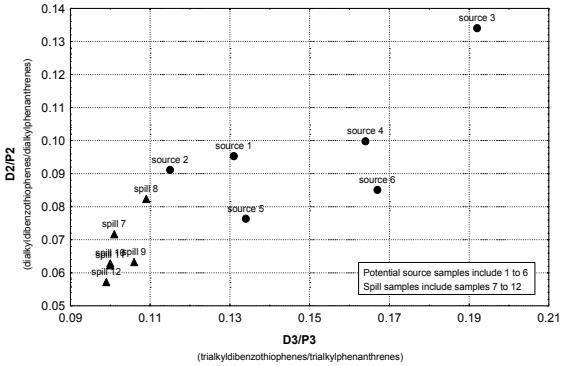
Burns & McDonnell
1431 Opus Place
Suite 400
Downers Grove, IL 60515

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

April 13, 2007

Figure 1. Double Ratio Plot



Identifying and allocating sources of pollutants in complex environments.

META Environmental, Inc.
ENGINEERING & CHEMISTRY

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

James A. Roush — April 13, 2007
James A. Roush — Date
Environmental Scientist, Laboratory Manager

David M. Mauro — April 13, 2007
David M. Mauro — Date
Senior Scientist, Quality Assurance Officer

Sample Delivery Group Narrative

Project:	Peoples Gas – Crawford Station Burns & McDonnell 1431 Opus Place Suite 400 Downers Grove, IL 60515
Report Contact:	Don Schilling
Dates of Receipt:	March 13, 2007
Sample Summary:	The samples received for this project are summarized in the attached sample login forms.
META Project Number:	B14013
SDG No.:	BR070313
Total Pages in Report:	196

Chain of Custody

The samples were received in good condition. The internal temperature of the shipment containers were as follows:

Samples received: 03/13/2007 0.9°C

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

The sediment samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (PAHs), alkyl PAH homologues and other selected compounds.

Results

Sample results are presented in summary forms (CLP Form 1 equivalent) in Appendix C, which follows this narrative.

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

Holding Times

The sediment samples were extracted within holding times. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion with the following exceptions; perylene-d12 was over-recovered in five of the twelve field samples due to the high level of dilution required for analysis.

Blanks

Toluene was detected at an elevated level (0.297 & 0.054 mg/kg) in sediment blanks BR070314-SB and BR070315-SB respectively. These high toluene concentrations were due to contribution from laboratory background caused by a toluene based extraction being performed at or near the same time as these samples. Ten of the twelve field samples had toluene concentrations greater than 10 times the level found in the respective blank while two field samples had toluene concentrations less than 10 times the blank levels. Those toluene values with concentrations less than 10 times the blank level should be reviewed for possible high bias. Other various MAH and PAH compounds were detected at very low levels below or just above the reporting limit (RL). All field samples had concentrations of these compounds far greater than 10X the blank level suggesting no high bias exists.

Blank Spikes

A blank spike was extracted with each sediment batch. All spiked compounds were recovered within acceptable laboratory criteria.

Duplicates

Sample *CRAW-CSB009-001 (6.8'-7.4')* was extracted and analyzed in duplicate. Relative percent differences (RPDs) are reported with the concentration data in Appendix C.

Internal Standards

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

Appendix A
Chains of Custody

Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

CPS - 2007 - 016

Document Control No.: ~~CRAW - 2007~~ cu

Lab. Reference No. or Episode No.:

Burns & McDonnell Engineering
1431 Opus Place
Downers Grove, Illinois 60515
Phone: (630) 724-3200 Fax: (630) 724-3201

Attention: Don Schilling

Laboratory: Meta Environmental
Address: 49 Clarendon Street
City/State/ZIP: Watertown, MA 02472
Telephone: 617-923-4665

Project Number: 39180-3.03

Site Name: Peoples Gas - Crawford Station

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Sample Type: Matrix: Solid	Sample Type: Matrix: Gas	Number of Containers	Parameter/Method Code: Fingerprint					Remarks
CRAW	CSB009	001	—	—	6.8'	7.4'	3/7/07	1015		X		1	X					BR070313-01
CRAW	CSB014	001	—	—	5.3'	6.0'	3/7/07	1145		X		1	X					-02
CRAW	CSB014	002	—	—	13.1'	14.0'	3/7/07	1210		X		1	X					-03
CRAW	CSB022	001	—	—	9.5'	10.0'	3/7/07	1400		X		1	X					-04
CRAW	CSB022	002	—	—	10.5'	11.6'	3/7/07	1415		X		1	X					-05
CRAW	CSB039	001	—	—	5.0'	6.0'	3/7/07	1600		X		1	X					-06
CRAW	CSB039	002	—	—	8.3'	8.8'	3/7/07	1610		X		1	X					-07
CRAW	CSB042	001	—	—	2.2'	2.9'	3/8/07	1015		X		1	X					-08
CRAW	CSB042	002	—	—	4.8'	5.5'	3/8/07	1020		X		1	X					-09
CRAW	CSB044	001	—	—	2.5'	3.0'	3/8/07	1200		X		1	X					-10
CRAW	CSB044	002	—	—	4.3'	4.8'	3/8/07	1220		X		1	X					-11
CRAW	CSB043	001	—	—	0'	0.4'	3/8/07	1405		X		1	X					-12

Sampler (signature): [signature]

Sampler (signature):

Custody Seal Number: CPS-2007-016 ~~CRAW - 2007~~

Special Instructions: Standard TAT

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
1. [signature]	3/12/07 PM	FedEX	
2.		Laurie A Larkin	3/13/07 1015

Ice Present in Container: Yes ☑ No ☐

Temperature Upon Receipt: 0.9°C

Laboratory Comments: Samples recvd in good condition

META Environmental, Inc.

Sample Receipt Log

Lab ID	Field ID	Matrix	Prep Method	Cleanup Method	Analysis Method	Date Sampled	Date Received	Project #	Container	Comments	Client Name	Project Name
BR070313-01	CRAW-CSB009-001 (6.8'-7.4')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-02	CRAW-CSB014-001 (5.3'-6.0')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-03	CRAW-CSB014-002 (13.1'-14.0')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-04	CRAW-CSB022-001 (9.5'-10.0')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-05	CRAW-CSB022-002 (10.5'-11.6')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-06	CRAW-CSB039-001 (5.0'-6.0')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-07	CRAW-CSB039-002 (8.3'-8.8')	Sediment	2508		4007/4008	3/7/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-08	CRAW-CSB042-001 (2.2'-2.9')	Sediment	2508		4007/4008	3/8/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-09	CRAW-CSB042-002 (4.8'-5.5')	Sediment	2508		4007/4008	3/8/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-10	CRAW-CSB044-001 (2.5'-3.0')	Sediment	2508		4007/4008	3/8/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-11	CRAW-CSB044-002 (4.3'-4.8')	Sediment	2508		4007/4008	3/8/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station
BR070313-12	CRAW-CSB043-001 (0'-0.4')	Sediment	2508		4007/4008	3/8/2007	3/13/2007	B14013-60	1 x 4 oz jar		Burns & McDonnell	Crawford Station

Logged By: [illegible]

Date: 3/13/07

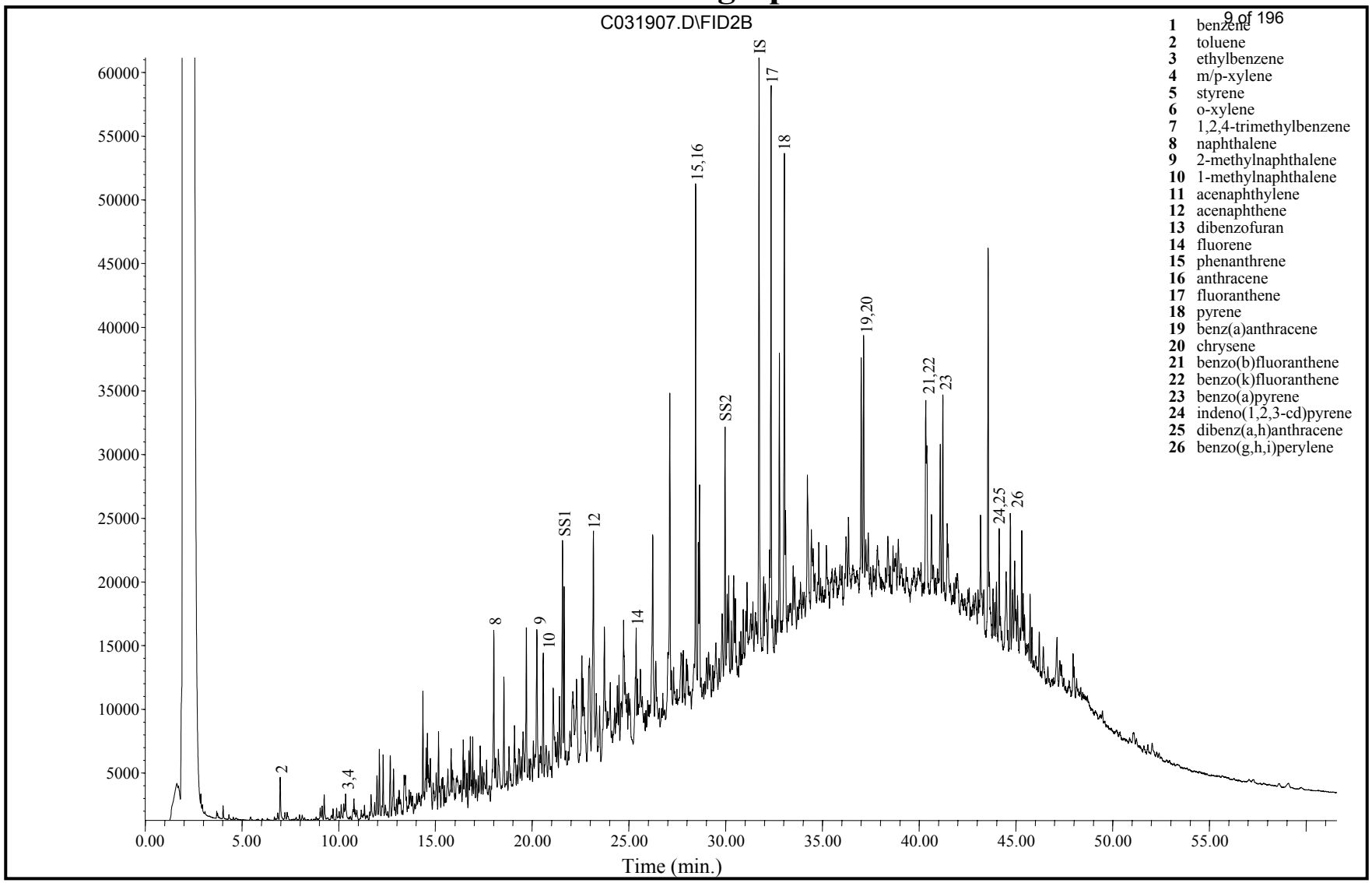
Reviewed By: [illegible]

Date: 3/14/07

Appendix B

GC/FID Fingerprints

GC/FID Fingerprint



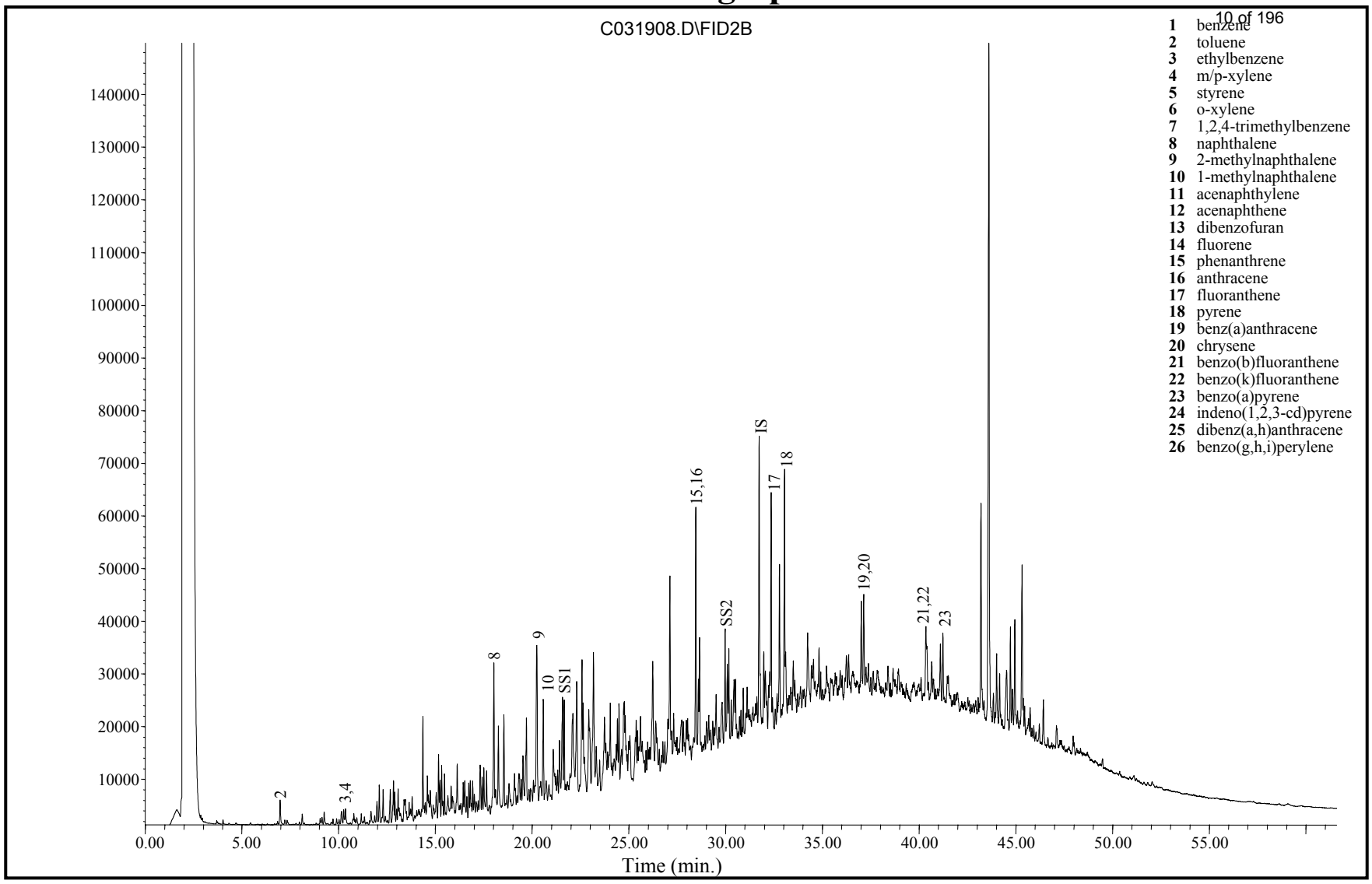
Extraction Date: 03/14/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB009-001 (6.8'-7.4')
Laboratory ID: BR070313-01
Method: EPA 8100M

META

GC/FID Fingerprint



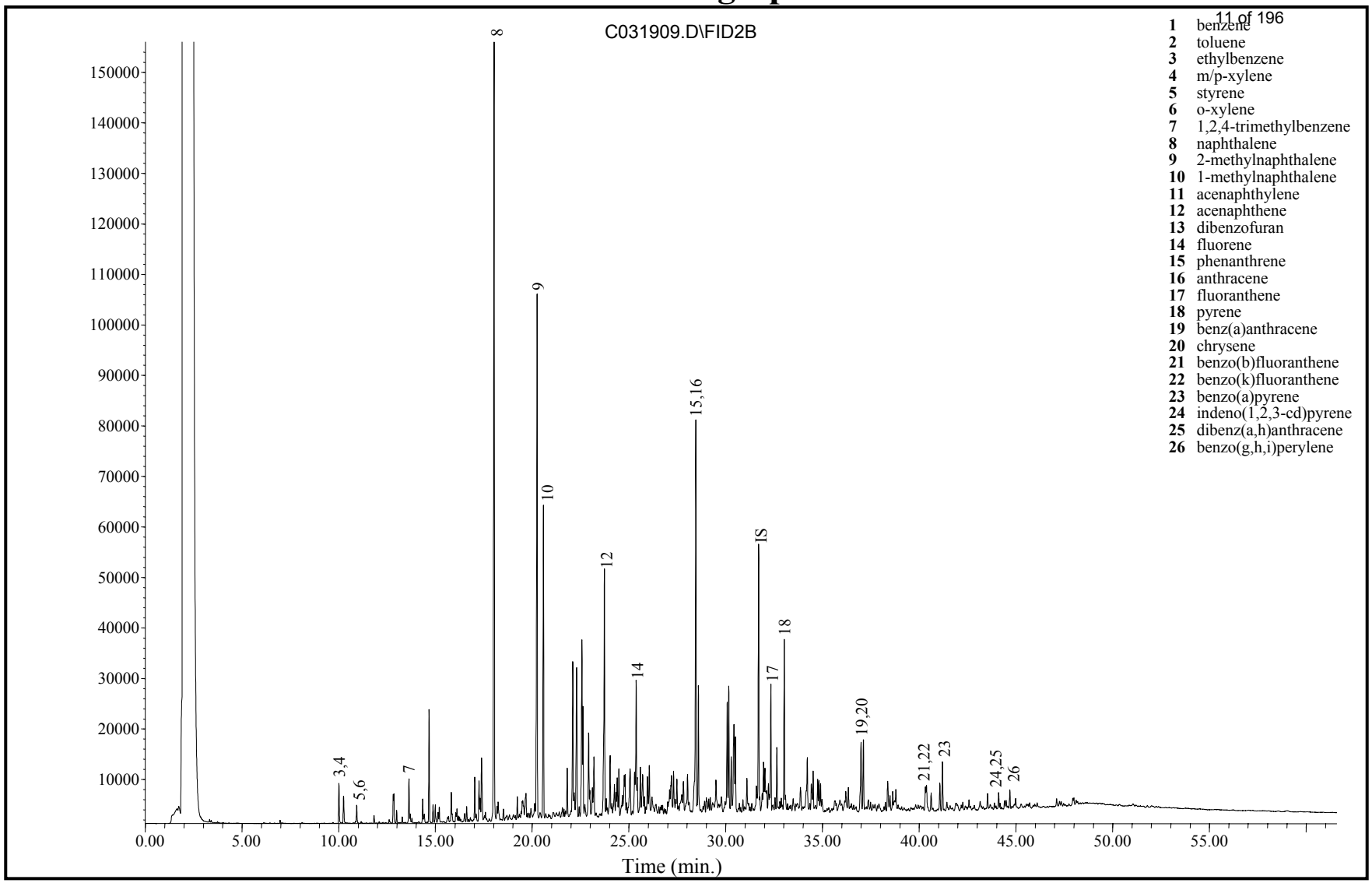
Extraction Date: 03/14/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB014-001 (5.3'-6.0')
Laboratory ID: BR070313-02
Method: EPA 8100M

META

GC/FID Fingerprint



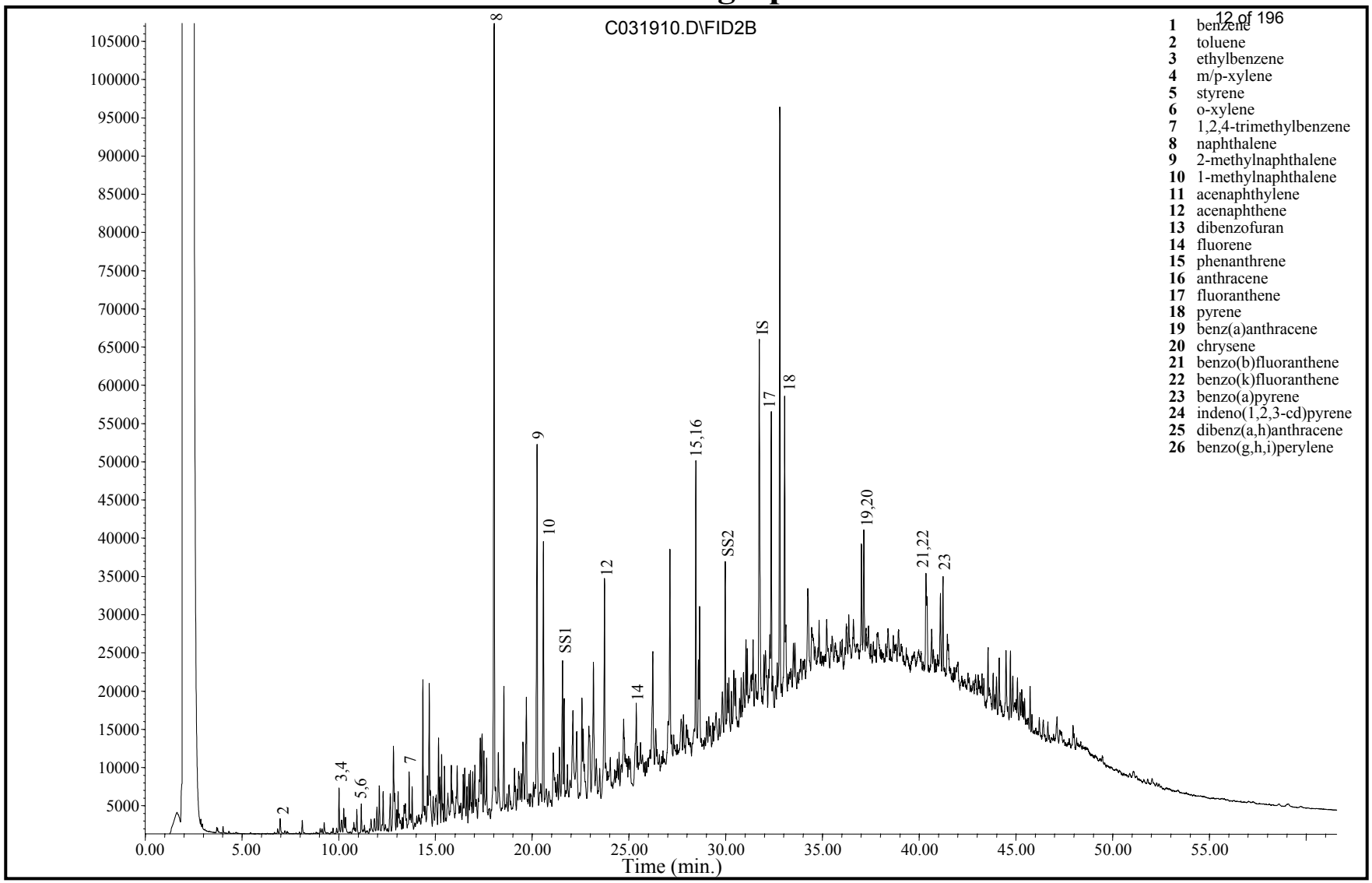
Extraction Date: 03/14/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB014-002 (13.1'-14.0')
Laboratory ID: BR070313-03-D
Method: EPA 8100M

META

GC/FID Fingerprint



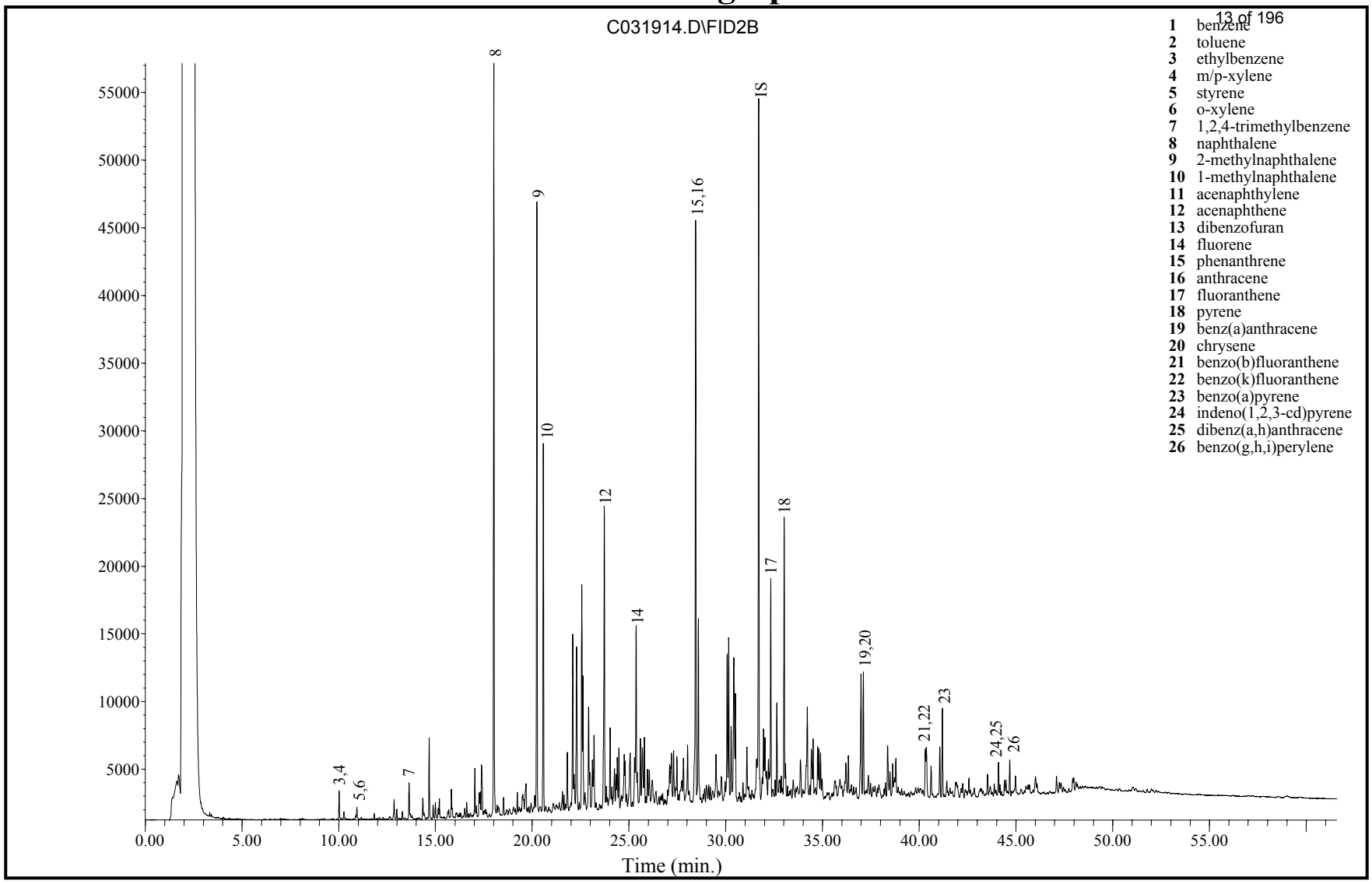
Extraction Date: 03/14/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB022-001 (9.5'-10.0')
Laboratory ID: BR070313-04
Method: EPA 8100M

META

GC/FID Fingerprint



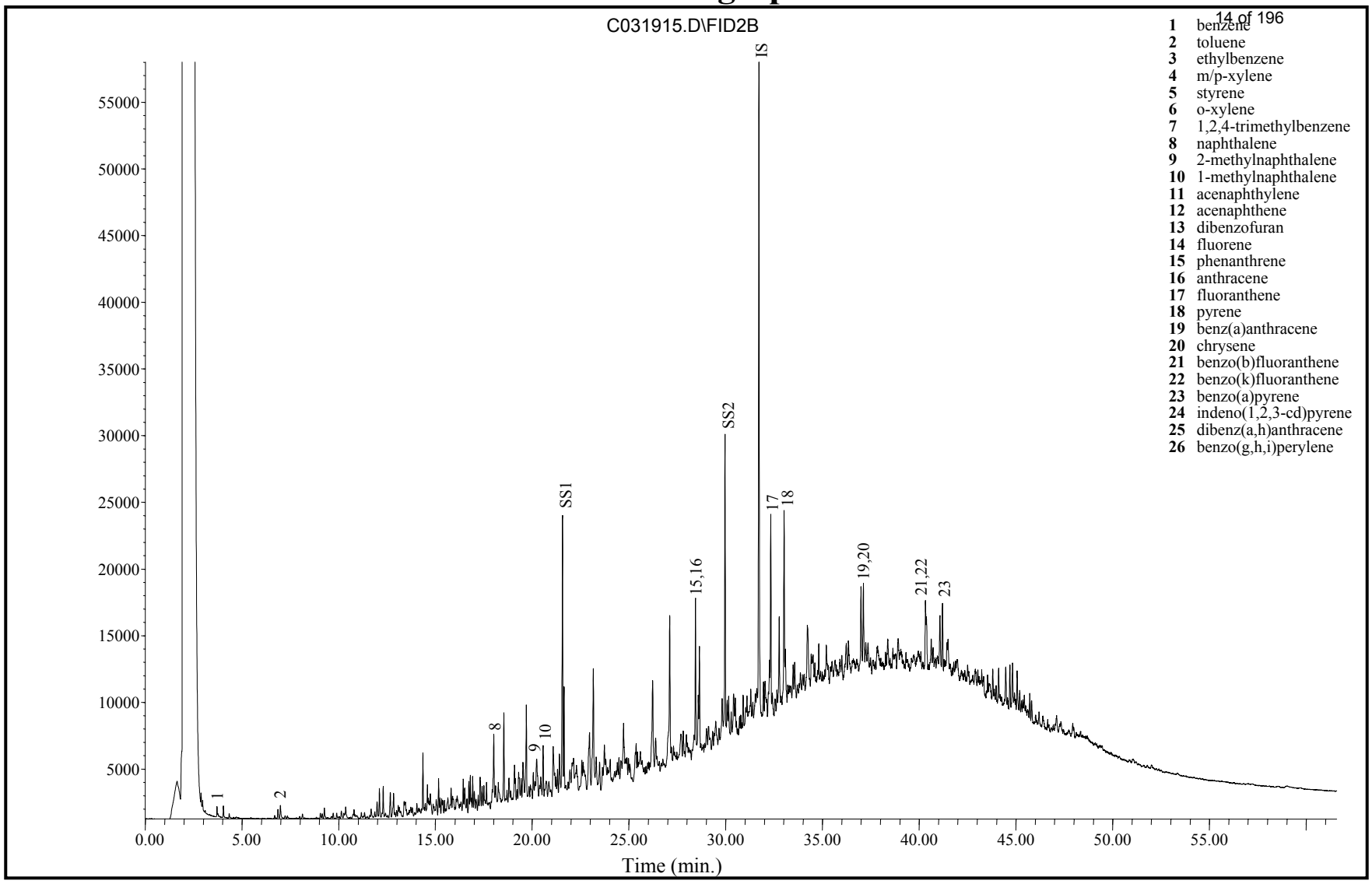
Extraction Date: 03/14/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB022-002 (10.5'-11.6')
Laboratory ID: BR070313-05-D
Method: EPA 8100M

META

GC/FID Fingerprint



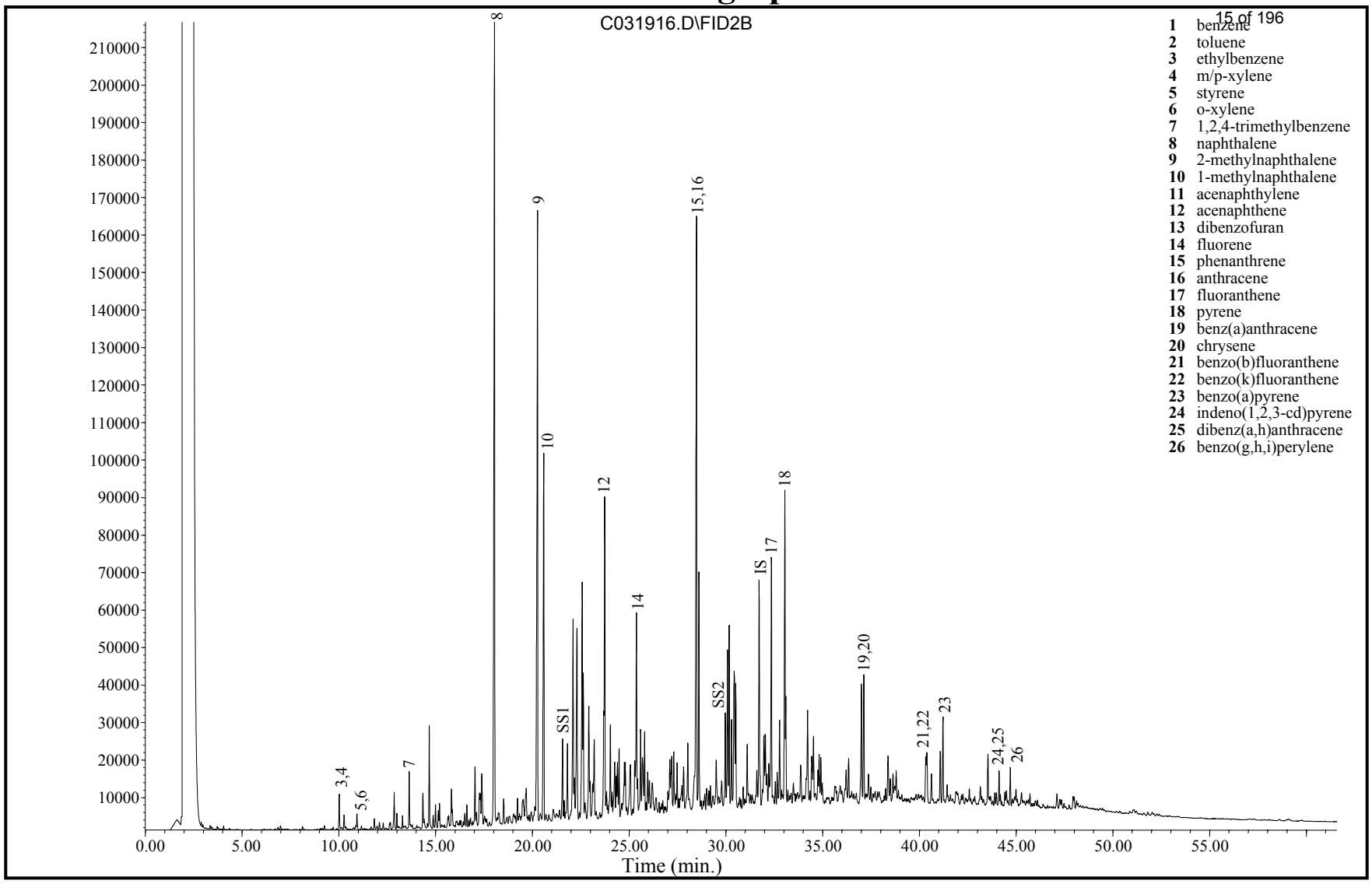
Extraction Date: 03/14/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB039-001 (5.0'-6.0')
Laboratory ID: BR070313-06
Method: EPA 8100M

META

GC/FID Fingerprint



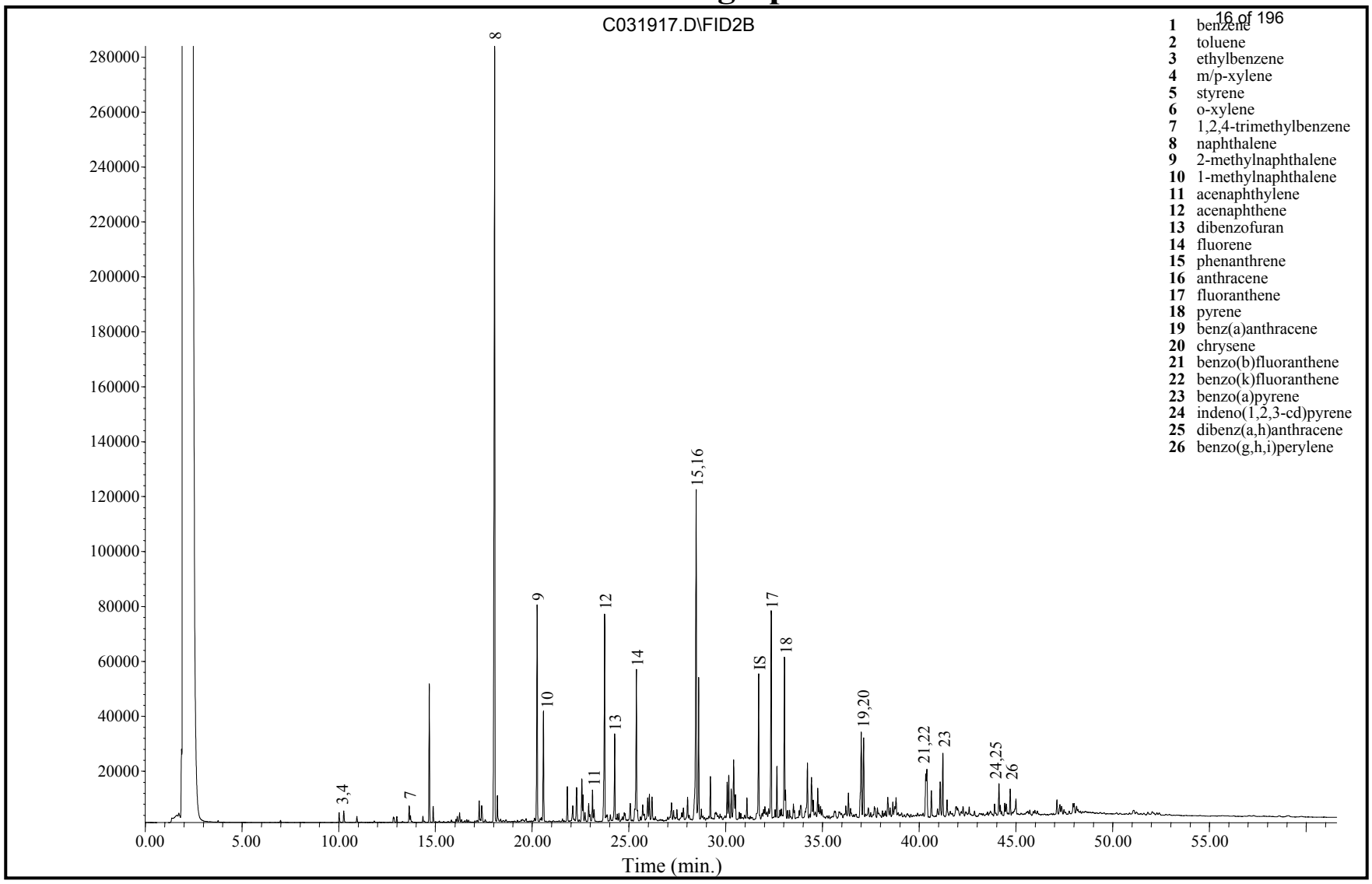
Extraction Date: 03/14/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB039-002 (8.3'-8.8')
Laboratory ID: BR070313-07
Method: EPA 8100M

META

GC/FID Fingerprint



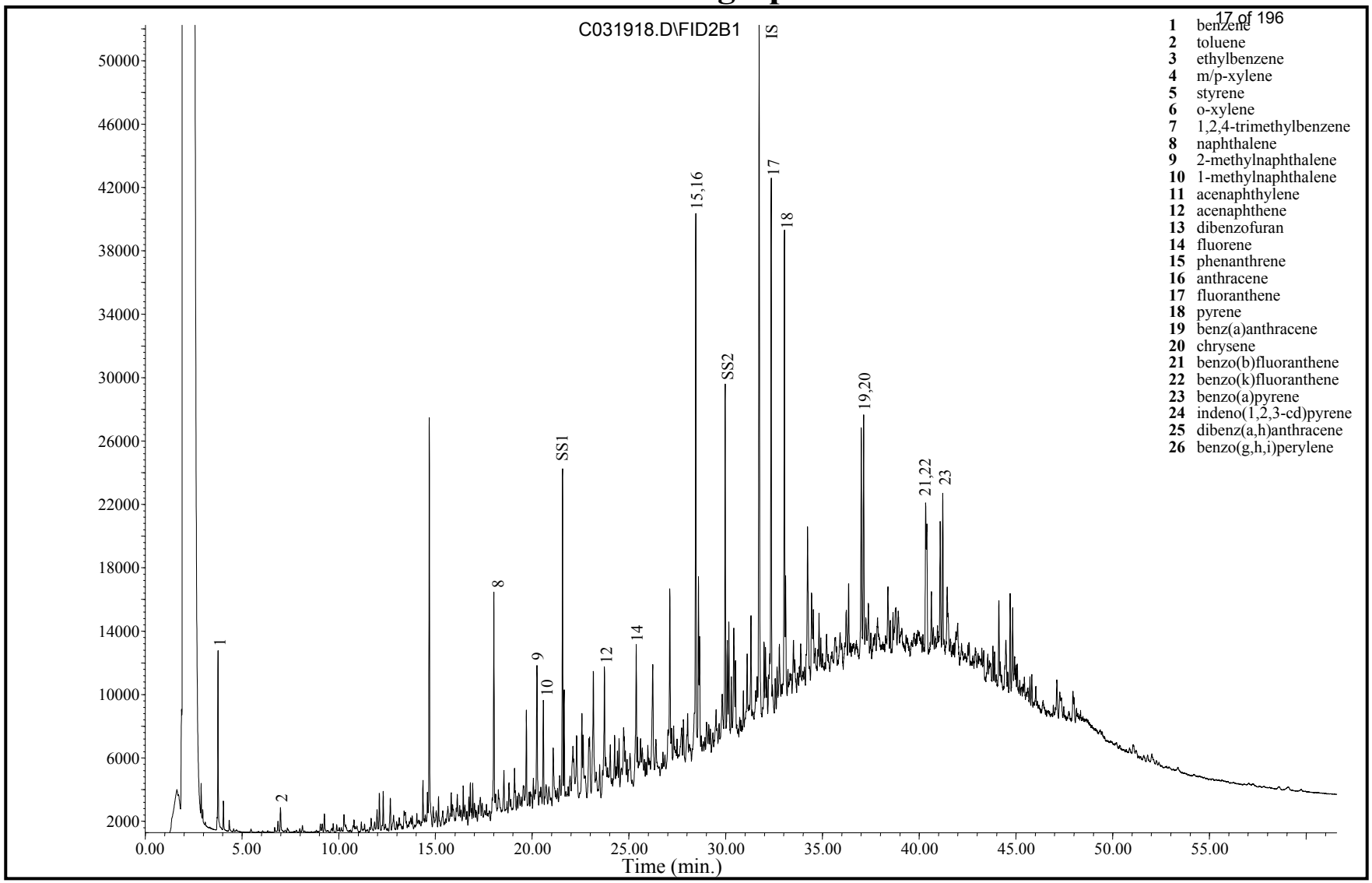
Extraction Date: 03/15/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB042-001 (2.2'-2.9')
Laboratory ID: BR070313-08-D
Method: EPA 8100M

META

GC/FID Fingerprint



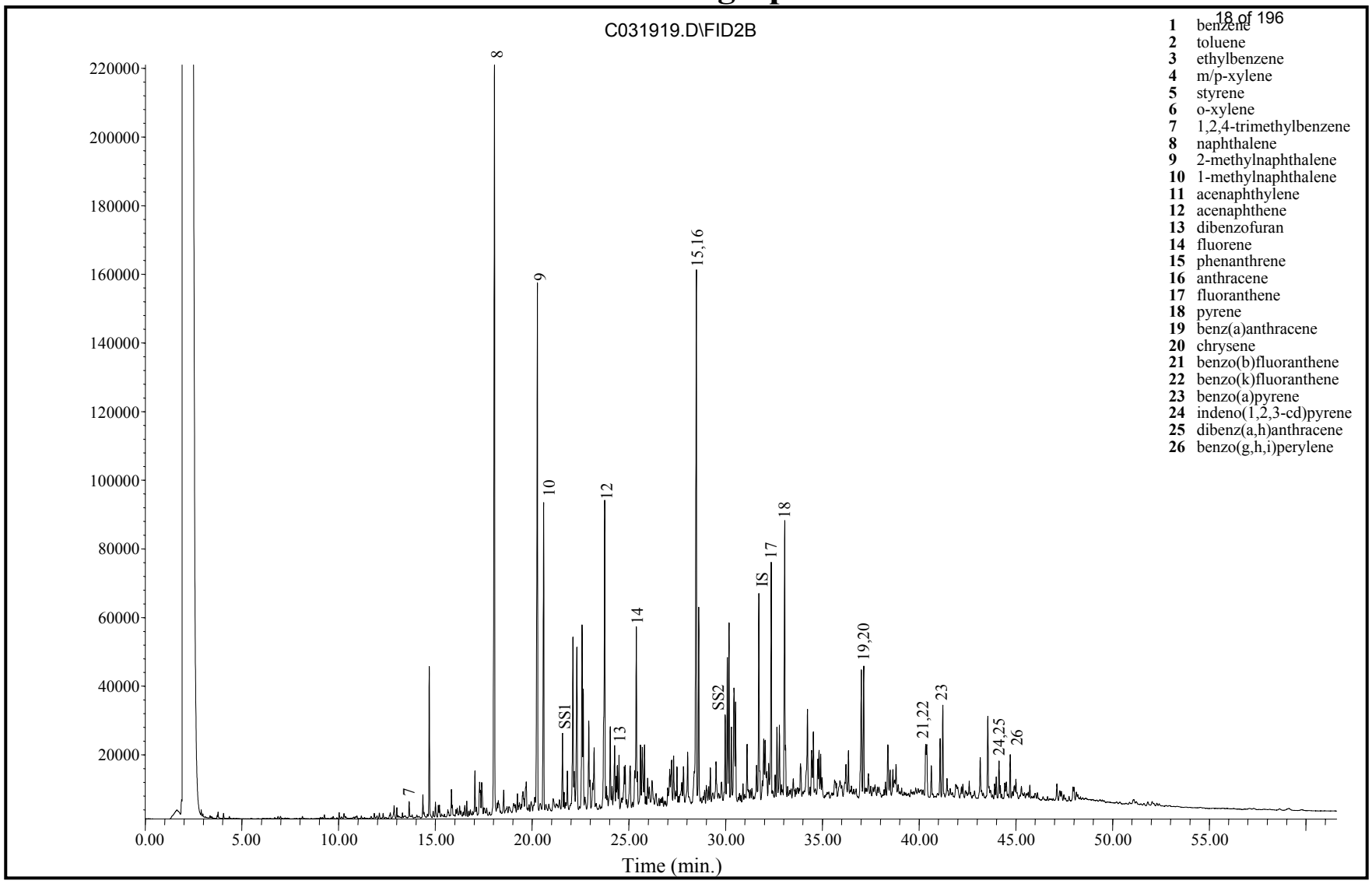
Extraction Date: 03/15/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB042-002 (4.8'-5.5')
Laboratory ID: BR070313-09
Method: EPA 8100M

META

GC/FID Fingerprint



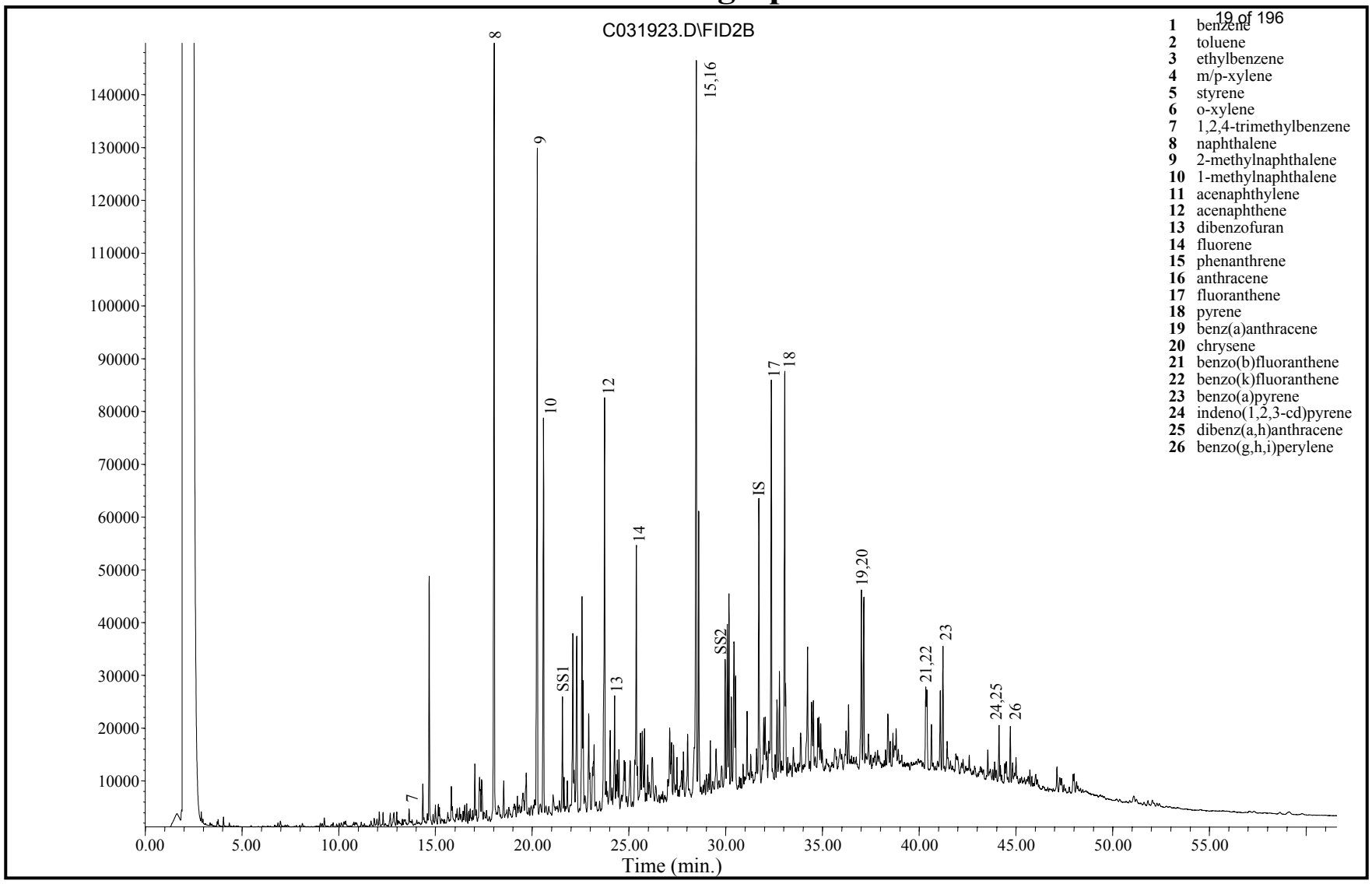
Extraction Date: 03/15/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB044-001 (2.5'-3.0')
Laboratory ID: BR070313-10
Method: EPA 8100M

META

GC/FID Fingerprint



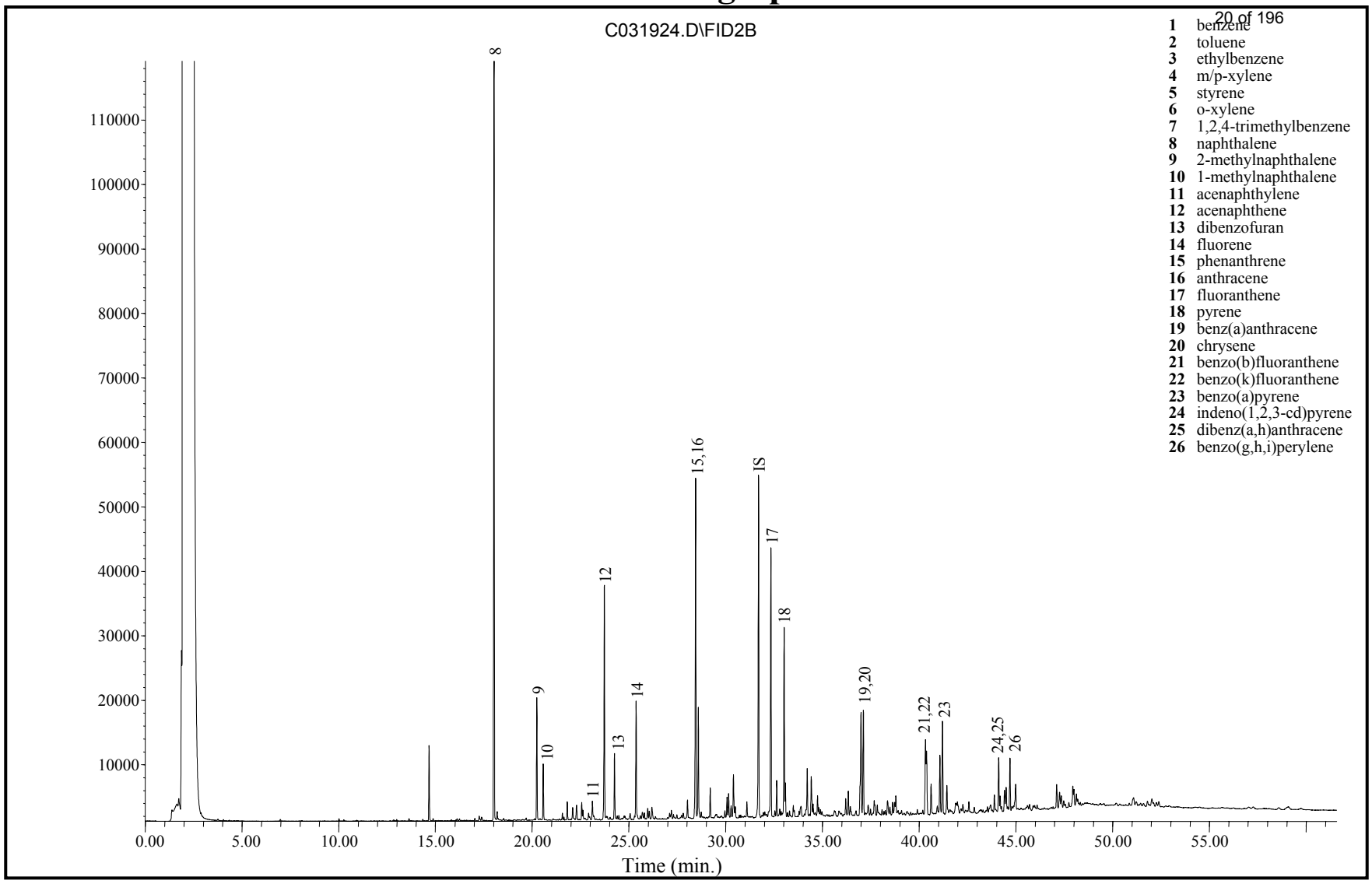
Extraction Date: 03/15/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB044-002 (4.3'-4.8')
Laboratory ID: BR070313-11
Method: EPA 8100M

META

GC/FID Fingerprint

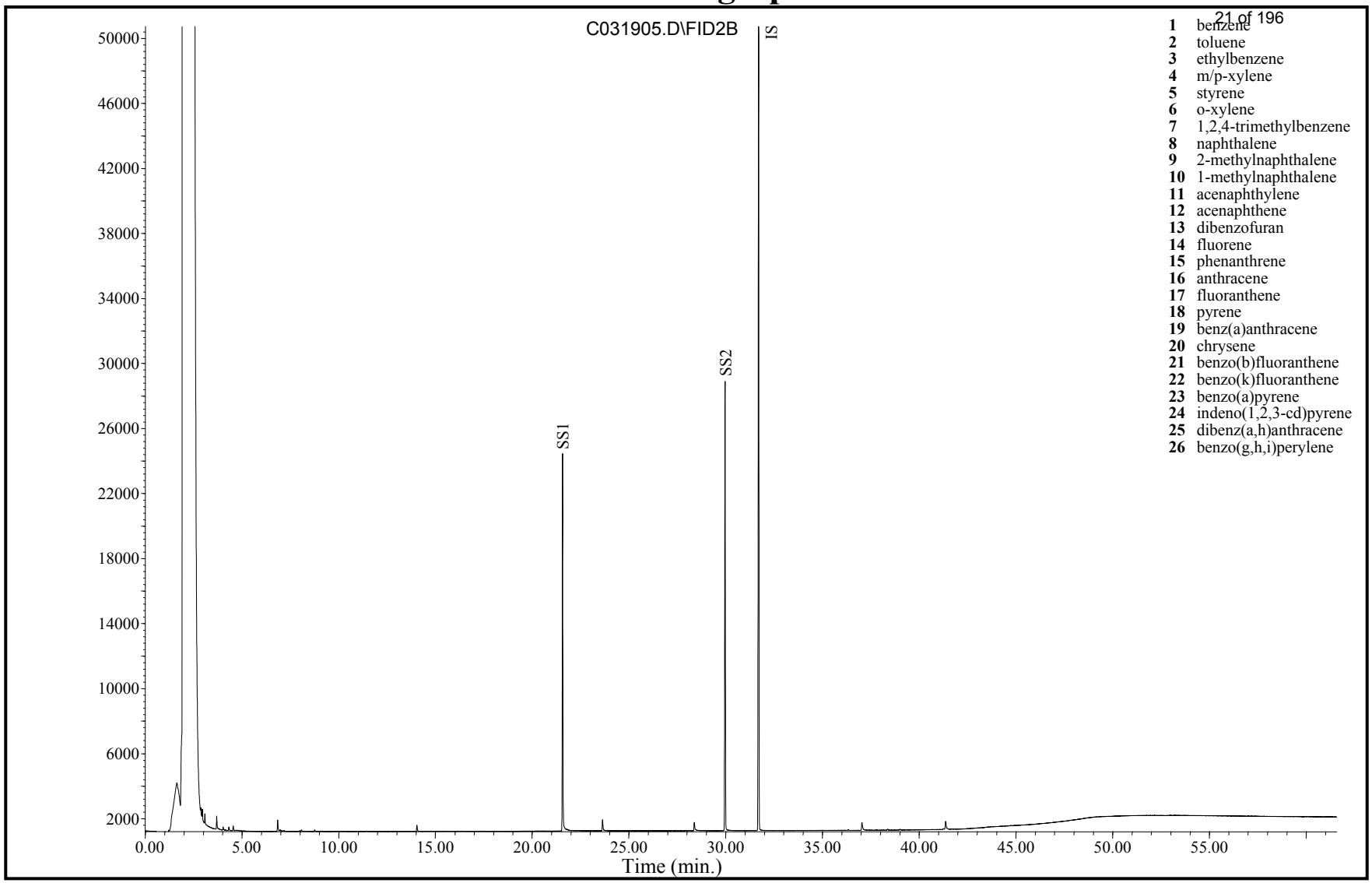


Extraction Date: 03/15/2007
Analysis Date: 03/20/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: CRAW-CSB043-001 (0'-0.4')
Laboratory ID: BR070313-12-D
Method: EPA 8100M

GC/FID Fingerprint



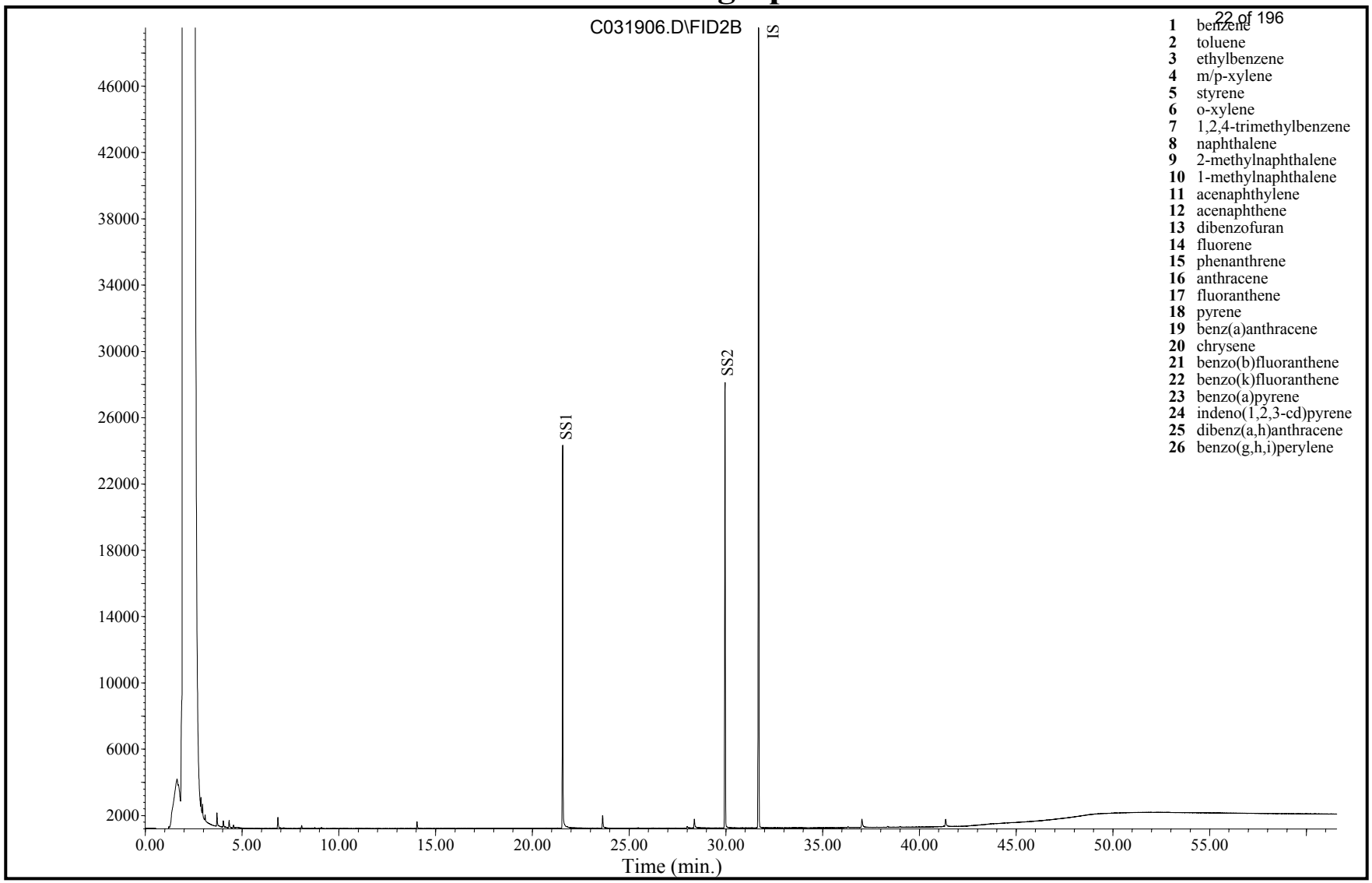
Extraction Date: 03/14/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: Soil Blank
Laboratory ID: BR070314-SB
Method: EPA 8100M

META

GC/FID Fingerprint



Extraction Date: 03/15/2007
Analysis Date: 03/19/2007

IS – 5a-Androstane
SS1 – 2-fluorobiphenyl
SS2 – o-terphenyl

Field ID: Soil Blank
Laboratory ID: BR070315-SB
Method: EPA 8100M

META

Appendix C

MAH/PAH Concentrations

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01-D		
File ID:	E031906.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.12
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.902		0.154	0.077	
Toluene	6.15	B	0.154	0.077	
Ethylbenzene	0.888		0.154	0.077	
m/p-Xylenes	2.74	B	0.154	0.077	
Styrene	0.344		0.308	0.154	
o-Xylene	0.975		0.154	0.077	
Isopropylbenzene	0.277		0.154	0.077	
n-Propylbenzene	0.480		0.154	0.077	
1,3,5-Trimethylbenzene	0.444		0.154	0.077	
1,2,4-Trimethylbenzene	2.39		0.154	0.077	
t-Butylbenzene		U	0.154	0.077	
sec-Butylbenzene	0.371		0.154	0.077	
p-Isopropyltoluene	0.574		0.154	0.077	
n-Butylbenzene	1.07		0.154	0.077	
C1 - Benzene	4.96	B	0.154	0.077	
C2 - Benzene	2.74	B	0.154	0.077	
C3 - Benzene	3.51		0.154	0.077	
C4 - Benzene	7.21		0.154	0.077	
C5 - Benzene	7.39		0.154	0.077	
trans-Decalin	5.49		0.154	0.077	
cis-Decalin	0.406		0.154	0.077	
Naphthalene	14.9	B	0.154	0.077	
2-Methylnaphthalene	17.1	B	0.154	0.077	
1-Methylnaphthalene	10.5	B	0.154	0.077	
C1 - Naphthalene	17.7	B	0.154	0.077	
C2 - Naphthalene	25.7	B	0.154	0.077	
C3- Naphthalene	27.0		0.154	0.077	
C4- Naphthalene	18.4		0.154	0.077	
Acenaphthylene	7.14		0.154	0.077	
Acenaphthene	13.1		0.154	0.077	
Dibenzofuran	6.78		0.154	0.077	
Fluorene	13.7		0.154	0.077	
C1 - Fluorene	6.66		0.154	0.077	
C2 - Fluorene	9.4		0.154	0.077	
C3 - Fluorene	9.16		0.154	0.077	
Phenanthrene	69.6	B	0.154	0.077	
Anthracene	21.6		0.154	0.077	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01-D		
File ID:	E031906.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.12
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	33.2	0.154	0.077	
C2 - Phenanthrene/Anthracene	25.3	0.154	0.077	
C3 - Phenanthrene/Anthracene	15.7	0.154	0.077	
C4 - Phenanthrene/Anthracene	7.23	0.154	0.077	
Dibenzothiophene	5.96	0.154	0.077	
C1 - Dibenzothiophene	9.76	0.154	0.077	
C2 - Dibenzothiophene	15.1	0.154	0.077	
C3 - Dibenzothiophene	13.1	0.154	0.077	
C4 - Dibenzothiophene	7.06	0.154	0.077	
Benzo(b)naphtho(2,1-d)thiophene	5.57	0.154	0.077	
Fluoranthene	76.7	0.154	0.077	
Pyrene	64.4 B	0.154	0.077	
C1 - Fluoranthene/Pyrene	36.5	0.154	0.077	
C2 - Fluoranthene/Pyrene	12.8	0.154	0.077	
C3 - Fluoranthene/Pyrene	7.52	0.154	0.077	
Benz[a]anthracene	30.5	0.154	0.077	
Chrysene*	34.0	0.154	0.077	
C1 - Benz(a)anthracene/Chrysene	11.8	0.154	0.077	
C2 - Benz(a)anthracene/Chrysene	6.28	0.154	0.077	
C3 - Benz(a)anthracene/Chrysene	3.62	0.154	0.077	
C4 - Benz(a)anthracene/Chrysene	2.51	0.154	0.077	
Benzo[b]fluoranthene	25.4	0.154	0.077	
Benzo[j/k]fluoranthene	24.1	0.154	0.077	
Benzo(e)pyrene	18.8	0.154	0.077	
Benzo[a]pyrene	28.2	0.154	0.077	
Perylene	6.52	0.154	0.077	
Indeno[1,2,3-cd]pyrene	17.1	0.154	0.077	
Dibenz[a,h]anthracene	4.22	0.154	0.077	
Benzo[g,h,i]perylene	14.9	0.154	0.077	
Coronene	4.06	0.154	0.077	
Retene	7.12	0.154	0.077	
Benzo(b/c)fluorenes	8.48	0.154	0.077	
2-Methylpyrene	4.26	0.154	0.077	
4-Methylpyrene	3.72	0.154	0.077	
1-Methylpyrene	3.23	0.154	0.077	
Heptadecane	2.27 B	0.154	0.077	
Pristane	64.3	0.154	0.077	
Octadecane	2.3 B	0.154	0.077	
Phytane	40.2	0.154	0.077	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01-D		
File ID:	E031906.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.12
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	22.1	0.154	0.077	
2,6,10-trimethyltridecane	33.7	0.154	0.077	
Norpristane	28.2	0.154	0.077	
Total PAH (16)	460	0.154	0.077	
Total PAH (42)	819	0.154	0.077	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	85	50 - 120
Phenanthrene-d10	84	50 - 120
Perylene-d12	108	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-001 (5.3'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-02-D		
File ID:	E031908.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	59%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.987		0.154	0.077	
Toluene	8.09	B	0.154	0.077	
Ethylbenzene	1.33		0.154	0.077	
m/p-Xylenes	5.64	B	0.154	0.077	
Styrene	0.436		0.308	0.154	
o-Xylene	1.72		0.154	0.077	
Isopropylbenzene	0.359		0.154	0.077	
n-Propylbenzene	0.651		0.154	0.077	
1,3,5-Trimethylbenzene	2.01		0.154	0.077	
1,2,4-Trimethylbenzene	4.8		0.154	0.077	
t-Butylbenzene		U	0.154	0.077	
sec-Butylbenzene	0.572		0.154	0.077	
p-Isopropyltoluene	1.73		0.154	0.077	
n-Butylbenzene	1.87		0.154	0.077	
C1 - Benzene	6.38	B	0.154	0.077	
C2 - Benzene	4.94	B	0.154	0.077	
C3 - Benzene	6.68		0.154	0.077	
C4 - Benzene	12.0		0.154	0.077	
C5 - Benzene	11.6		0.154	0.077	
trans-Decalin	7.11		0.154	0.077	
cis-Decalin	0.569		0.154	0.077	
Naphthalene	39.2	B	0.154	0.077	
2-Methylnaphthalene	43.5	B	0.154	0.077	
1-Methylnaphthalene	24.0	B	0.154	0.077	
C1 - Naphthalene	43.2	B	0.154	0.077	
C2 - Naphthalene	81.5	B	0.154	0.077	
C3- Naphthalene	75.8		0.154	0.077	
C4- Naphthalene	44.5		0.154	0.077	
Acenaphthylene	5.93		0.154	0.077	
Acenaphthene	14.8		0.154	0.077	
Dibenzofuran	7.85		0.154	0.077	
Fluorene	16.5		0.154	0.077	
C1 - Fluorene	14.6		0.154	0.077	
C2 - Fluorene	23.2		0.154	0.077	
C3 - Fluorene	22.0		0.154	0.077	
Phenanthrene	79.7	B	0.154	0.077	
Anthracene	23.7		0.154	0.077	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-001 (5.3'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-02-D		
File ID:	E031908.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	59%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	70.6		0.154	0.077	
C2 - Phenanthrene/Anthracene	64.9		0.154	0.077	
C3 - Phenanthrene/Anthracene	37.3		0.154	0.077	
C4 - Phenanthrene/Anthracene	16.4		0.154	0.077	
Dibenzothiophene	13.4		0.154	0.077	
C1 - Dibenzothiophene	30.6		0.154	0.077	
C2 - Dibenzothiophene	43.8		0.154	0.077	
C3 - Dibenzothiophene	34.2		0.154	0.077	
C4 - Dibenzothiophene	16.7		0.154	0.077	
Benzo(b)naphtho(2,1-d)thiophene	6.8		0.154	0.077	
Fluoranthene	78.1		0.154	0.077	
Pyrene	74.9	B	0.154	0.077	
C1 - Fluoranthene/Pyrene	50.6		0.154	0.077	
C2 - Fluoranthene/Pyrene	24.9		0.154	0.077	
C3 - Fluoranthene/Pyrene	14.9		0.154	0.077	
Benz[a]anthracene	28.3		0.154	0.077	
Chrysene*	31.1		0.154	0.077	
C1 - Benz(a)anthracene/Chrysene	15.4		0.154	0.077	
C2 - Benz(a)anthracene/Chrysene	10.3		0.154	0.077	
C3 - Benz(a)anthracene/Chrysene	7.4		0.154	0.077	
C4 - Benz(a)anthracene/Chrysene	4.61		0.154	0.077	
Benzo[b]fluoranthene	21.2		0.154	0.077	
Benzo[j/k]fluoranthene	19.9		0.154	0.077	
Benzo(e)pyrene	16.5		0.154	0.077	
Benzo[a]pyrene	23.4		0.154	0.077	
Perylene	5.25		0.154	0.077	
Indeno[1,2,3-cd]pyrene	13.9		0.154	0.077	
Dibenz[a,h]anthracene	3.23		0.154	0.077	
Benzo[g,h,i]perylene	12.8		0.154	0.077	
Coronene	3.52		0.154	0.077	
Retene	8.32		0.154	0.077	
Benzo(b/c)fluorenes	8.43		0.154	0.077	
2-Methylpyrene	8.16		0.154	0.077	
4-Methylpyrene	8.51		0.154	0.077	
1-Methylpyrene	6.77		0.154	0.077	
Heptadecane	5.01	B	0.154	0.077	
Pristane	83.5		0.154	0.077	
Octadecane	3.55	B	0.154	0.077	
Phytane	52.2		0.154	0.077	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-001 (5.3'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-02-D		
File ID:	E031908.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	59%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	28.2	0.154	0.077	
2,6,10-trimethyltridecane	48.7	0.154	0.077	
Norpristane	36.6	0.154	0.077	
Total PAH (16)	487	0.154	0.077	
Total PAH (42)	1,280	0.154	0.077	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	92	50 - 120
Phenanthrene-d10	87	50 - 120
Perylene-d12	116	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-002 (13.1'-14.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-03-D3		
File ID:	E032108.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.10
Date Cleanup:	NA	Percent Solid:	60%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	100.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	9.19		0.793	0.396	
Toluene	21.2	B	0.793	0.396	
Ethylbenzene	257		0.793	0.396	
m/p-Xylenes	198	B	0.793	0.396	
Styrene	21.8		1.58	0.790	
o-Xylene	114		0.793	0.396	
Isopropylbenzene	50.4		0.793	0.396	
n-Propylbenzene	21.1		0.793	0.396	
1,3,5-Trimethylbenzene	80.0		0.793	0.396	
1,2,4-Trimethylbenzene	251		0.793	0.396	
t-Butylbenzene		U	0.793	0.396	
sec-Butylbenzene	2.21		0.793	0.396	
p-Isopropyltoluene	42.7		0.793	0.396	
n-Butylbenzene	36.8		0.793	0.396	
C1 - Benzene	16.8	B	0.793	0.396	
C2 - Benzene	306	B	0.793	0.396	
C3 - Benzene	394		0.793	0.396	
C4 - Benzene	359		0.793	0.396	
C5 - Benzene	123		0.793	0.396	
trans-Decalin	4.61		0.793	0.396	
cis-Decalin		U	0.793	0.396	
Naphthalene	3,750	B	0.793	0.396	
2-Methylnaphthalene	3,020	B	0.793	0.396	
1-Methylnaphthalene	1,840	B	0.793	0.396	
C1 - Naphthalene	3,080	B	0.793	0.396	
C2 - Naphthalene	2,410	B	0.793	0.396	
C3- Naphthalene	967		0.793	0.396	
C4- Naphthalene	282		0.793	0.396	
Acenaphthylene	240		0.793	0.396	
Acenaphthene	1,520		0.793	0.396	
Dibenzofuran	208		0.793	0.396	
Fluorene	809		0.793	0.396	
C1 - Fluorene	563		0.793	0.396	
C2 - Fluorene	460		0.793	0.396	
C3 - Fluorene	185		0.793	0.396	
Phenanthrene	2,390	B	0.793	0.396	
Anthracene	881		0.793	0.396	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-002 (13.1'-14.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-03-D3		
File ID:	E032108.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.10
Date Cleanup:	NA	Percent Solid:	60%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	100.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	2,060		0.793	0.396	
C2 - Phenanthrene/Anthracene	943		0.793	0.396	
C3 - Phenanthrene/Anthracene	290		0.793	0.396	
C4 - Phenanthrene/Anthracene	79.5		0.793	0.396	
Dibenzothiophene	289		0.793	0.396	
C1 - Dibenzothiophene	360		0.793	0.396	
C2 - Dibenzothiophene	282		0.793	0.396	
C3 - Dibenzothiophene	127		0.793	0.396	
C4 - Dibenzothiophene	41.1		0.793	0.396	
Benzo(b)naphtho(2,1-d)thiophene	99.4		0.793	0.396	
Fluoranthene	777		0.793	0.396	
Pyrene	1,070	B	0.793	0.396	
C1 - Fluoranthene/Pyrene	1,320		0.793	0.396	
C2 - Fluoranthene/Pyrene	517		0.793	0.396	
C3 - Fluoranthene/Pyrene	203		0.793	0.396	
Benz[a]anthracene	453		0.793	0.396	
Chrysene*	462		0.793	0.396	
C1 - Benz(a)anthracene/Chrysene	450		0.793	0.396	
C2 - Benz(a)anthracene/Chrysene	204		0.793	0.396	
C3 - Benz(a)anthracene/Chrysene	81.4		0.793	0.396	
C4 - Benz(a)anthracene/Chrysene	37.6		0.793	0.396	
Benzo[b]fluoranthene	152		0.793	0.396	
Benzo[j/k]fluoranthene	204		0.793	0.396	
Benzo(e)pyrene	180		0.793	0.396	
Benzo[a]pyrene	327		0.793	0.396	
Perylene	52.1		0.793	0.396	
Indeno[1,2,3-cd]pyrene	119		0.793	0.396	
Dibenz[a,h]anthracene	43.0		0.793	0.396	
Benzo[g,h,i]perylene	113		0.793	0.396	
Coronene	24.0		0.793	0.396	
Retene	16.4		0.793	0.396	
Benzo(b/c)fluorenes	180		0.793	0.396	
2-Methylpyrene	178		0.793	0.396	
4-Methylpyrene	161		0.793	0.396	
1-Methylpyrene	198		0.793	0.396	
Heptadecane	4.48	B	0.793	0.396	
Pristane	102		0.793	0.396	
Octadecane	2.15	B	0.793	0.396	
Phytane	65.5		0.793	0.396	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB014-002 (13.1'-14.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-03-D3		
File ID:	E032108.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.10
Date Cleanup:	NA	Percent Solid:	60%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	100.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	42.3	0.793	0.396	
2,6,10-trimethyltridecane	67.5	0.793	0.396	
Norpristane	58.0	0.793	0.396	
Total PAH (16)	13,300	0.793	0.396	
Total PAH (42)	29,000	0.793	0.396	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	89	50 - 120
Phenanthrene-d10	91	50 - 120
Perylene-d12	365	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-001 (9.5'-10.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-04-D		
File ID:	E031910.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.20
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.701		0.089	0.044	
Toluene	4.11	B	0.089	0.044	
Ethylbenzene	10.6		0.089	0.044	
m/p-Xylenes	7.47	B	0.089	0.044	
Styrene	0.391		0.177	0.089	
o-Xylene	5.3		0.089	0.044	
Isopropylbenzene	2.47		0.089	0.044	
n-Propylbenzene	1.26		0.089	0.044	
1,3,5-Trimethylbenzene	3.33		0.089	0.044	
1,2,4-Trimethylbenzene	12.0		0.089	0.044	
t-Butylbenzene		U	0.089	0.044	
sec-Butylbenzene	0.475		0.089	0.044	
p-Isopropyltoluene	2.97		0.089	0.044	
n-Butylbenzene	2.53		0.089	0.044	
C1 - Benzene	3.23	B	0.089	0.044	
C2 - Benzene	12.2	B	0.089	0.044	
C3 - Benzene	19.8		0.089	0.044	
C4 - Benzene	20.0		0.089	0.044	
C5 - Benzene	11.0		0.089	0.044	
trans-Decalin	6.69		0.089	0.044	
cis-Decalin	0.428		0.089	0.044	
Naphthalene	175	B	0.089	0.044	
2-Methylnaphthalene	90.1	B	0.089	0.044	
1-Methylnaphthalene	62.0	B	0.089	0.044	
C1 - Naphthalene	96.6	B	0.089	0.044	
C2 - Naphthalene	47.8	B	0.089	0.044	
C3- Naphthalene	26.1		0.089	0.044	
C4- Naphthalene	18.2		0.089	0.044	
Acenaphthylene	7.48		0.089	0.044	
Acenaphthene	52.6		0.089	0.044	
Dibenzofuran	6.39		0.089	0.044	
Fluorene	18.7		0.089	0.044	
C1 - Fluorene	7.93		0.089	0.044	
C2 - Fluorene	10.6		0.089	0.044	
C3 - Fluorene	9.56		0.089	0.044	
Phenanthrene	70.6	B	0.089	0.044	
Anthracene	21.1		0.089	0.044	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-001 (9.5'-10.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-04-D		
File ID:	E031910.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.20
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	32.7	0.089	0.044	
C2 - Phenanthrene/Anthracene	26.2	0.089	0.044	
C3 - Phenanthrene/Anthracene	17.2	0.089	0.044	
C4 - Phenanthrene/Anthracene	8.33	0.089	0.044	
Dibenzothiophene	6.05	0.089	0.044	
C1 - Dibenzothiophene	9.49	0.089	0.044	
C2 - Dibenzothiophene	16.3	0.089	0.044	
C3 - Dibenzothiophene	16.3	0.089	0.044	
C4 - Dibenzothiophene	9.03	0.089	0.044	
Benzo(b)naphtho(2,1-d)thiophene	5.33	0.089	0.044	
Fluoranthene	68.8	0.089	0.044	
Pyrene	63.6 B	0.089	0.044	
C1 - Fluoranthene/Pyrene	37.2	0.089	0.044	
C2 - Fluoranthene/Pyrene	13.2	0.089	0.044	
C3 - Fluoranthene/Pyrene	8.61	0.089	0.044	
Benz[a]anthracene	27.8	0.089	0.044	
Chrysene*	29.2	0.089	0.044	
C1 - Benz(a)anthracene/Chrysene	12.2	0.089	0.044	
C2 - Benz(a)anthracene/Chrysene	6.37	0.089	0.044	
C3 - Benz(a)anthracene/Chrysene	4.18	0.089	0.044	
C4 - Benz(a)anthracene/Chrysene	2.83	0.089	0.044	
Benzo[b]fluoranthene	21.3	0.089	0.044	
Benzo[j/k]fluoranthene	20.8	0.089	0.044	
Benzo(e)pyrene	16.3	0.089	0.044	
Benzo[a]pyrene	25.1	0.089	0.044	
Perylene	5.8	0.089	0.044	
Indeno[1,2,3-cd]pyrene	15.3	0.089	0.044	
Dibenz[a,h]anthracene	3.64	0.089	0.044	
Benzo[g,h,i]perylene	14.2	0.089	0.044	
Coronene	4.24	0.089	0.044	
Retene	8.67	0.089	0.044	
Benzo(b/c)fluorenes	8.47	0.089	0.044	
2-Methylpyrene	4.22	0.089	0.044	
4-Methylpyrene	3.94	0.089	0.044	
1-Methylpyrene	3.49	0.089	0.044	
Heptadecane	5.05 B	0.089	0.044	
Pristane	72.9	0.089	0.044	
Octadecane	2.44 B	0.089	0.044	
Phytane	47.1	0.089	0.044	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-001 (9.5'-10.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-04-D		
File ID:	E031910.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.20
Date Cleanup:	NA	Percent Solid:	51%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	22.6	0.089	0.044	
2,6,10-trimethyltridecane	33.2	0.089	0.044	
Norpristane	31.6	0.089	0.044	
Total PAH (16)	635	0.089	0.044	
Total PAH (42)	1,110	0.089	0.044	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	89	50 - 120
Phenanthrene-d10	88	50 - 120
Perylene-d12	101	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-002 (10.5'-11.6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-05-D3		
File ID:	E032109.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	74%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	50.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	2.01		0.295	0.148	
Toluene	3.0	B	0.295	0.148	
Ethylbenzene	51.4		0.295	0.148	
m/p-Xylenes	16.0	B	0.295	0.148	
Styrene	13.2		0.591	0.296	
o-Xylene	20.0		0.295	0.148	
Isopropylbenzene	10.6		0.295	0.148	
n-Propylbenzene	4.42		0.295	0.148	
1,3,5-Trimethylbenzene	15.8		0.295	0.148	
1,2,4-Trimethylbenzene	53.8		0.295	0.148	
t-Butylbenzene		U	0.295	0.148	
sec-Butylbenzene	0.676		0.295	0.148	
p-Isopropyltoluene	10.8		0.295	0.148	
n-Butylbenzene	10.2		0.295	0.148	
C1 - Benzene	2.47	B	0.295	0.148	
C2 - Benzene	45.8	B	0.295	0.148	
C3 - Benzene	72.2		0.295	0.148	
C4 - Benzene	98.0		0.295	0.148	
C5 - Benzene	42.5		0.295	0.148	
trans-Decalin	2.08		0.295	0.148	
cis-Decalin	0.430		0.295	0.148	
Naphthalene	944	B	0.295	0.148	
2-Methylnaphthalene	857	B	0.295	0.148	
1-Methylnaphthalene	543	B	0.295	0.148	
C1 - Naphthalene	890	B	0.295	0.148	
C2 - Naphthalene	736	B	0.295	0.148	
C3- Naphthalene	329		0.295	0.148	
C4- Naphthalene	97.3		0.295	0.148	
Acenaphthylene	108		0.295	0.148	
Acenaphthene	472		0.295	0.148	
Dibenzofuran	69.8		0.295	0.148	
Fluorene	294		0.295	0.148	
C1 - Fluorene	202		0.295	0.148	
C2 - Fluorene	148		0.295	0.148	
C3 - Fluorene	60.7		0.295	0.148	
Phenanthrene	884	B	0.295	0.148	
Anthracene	351		0.295	0.148	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-002 (10.5'-11.6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-05-D3		
File ID:	E032109.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	74%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	50.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	768		0.295	0.148	
C2 - Phenanthrene/Anthracene	358		0.295	0.148	
C3 - Phenanthrene/Anthracene	110		0.295	0.148	
C4 - Phenanthrene/Anthracene	29.6		0.295	0.148	
Dibenzothiophene	113		0.295	0.148	
C1 - Dibenzothiophene	156		0.295	0.148	
C2 - Dibenzothiophene	131		0.295	0.148	
C3 - Dibenzothiophene	62.4		0.295	0.148	
C4 - Dibenzothiophene	20.5		0.295	0.148	
Benzo(b)naphtho(2,1-d)thiophene	51.4		0.295	0.148	
Fluoranthene	363		0.295	0.148	
Pyrene	452	B	0.295	0.148	
C1 - Fluoranthene/Pyrene	570		0.295	0.148	
C2 - Fluoranthene/Pyrene	208		0.295	0.148	
C3 - Fluoranthene/Pyrene	81.5		0.295	0.148	
Benz[a]anthracene	209		0.295	0.148	
Chrysene*	214		0.295	0.148	
C1 - Benz(a)anthracene/Chrysene	200		0.295	0.148	
C2 - Benz(a)anthracene/Chrysene	93.1		0.295	0.148	
C3 - Benz(a)anthracene/Chrysene	35.3		0.295	0.148	
C4 - Benz(a)anthracene/Chrysene	16.2		0.295	0.148	
Benzo[b]fluoranthene	82.0		0.295	0.148	
Benzo[j/k]fluoranthene	104		0.295	0.148	
Benzo(e)pyrene	85.3		0.295	0.148	
Benzo[a]pyrene	160		0.295	0.148	
Perylene	26.9		0.295	0.148	
Indeno[1,2,3-cd]pyrene	62.6		0.295	0.148	
Dibenz[a,h]anthracene	21.2		0.295	0.148	
Benzo[g,h,i]perylene	57.7		0.295	0.148	
Coronene	12.5		0.295	0.148	
Retene	6.97		0.295	0.148	
Benzo(b/c)fluorenes	84.2		0.295	0.148	
2-Methylpyrene	69.2		0.295	0.148	
4-Methylpyrene	68.3		0.295	0.148	
1-Methylpyrene	82.6		0.295	0.148	
Heptadecane	1.51	B	0.295	0.148	
Pristane	57.0		0.295	0.148	
Octadecane	0.929	B	0.295	0.148	
Phytane	38.8		0.295	0.148	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB022-002 (10.5'-11.6')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-05-D3		
File ID:	E032109.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	74%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	50.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	20.7	0.295	0.148	
2,6,10-trimethyltridecane	32.3	0.295	0.148	
Norpristane	30.4	0.295	0.148	
Total PAH (16)	4,780	0.295	0.148	
Total PAH (42)	10,400	0.295	0.148	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	87	50 - 120
Phenanthrene-d10	88	50 - 120
Perylene-d12	237	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-001 (5.0'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-06		
File ID:	E031912.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	52%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.428		0.009	0.004	
Toluene	1.9	B	0.009	0.004	
Ethylbenzene	0.142		0.009	0.004	
m/p-Xylenes	1.29	B	0.009	0.004	
Styrene	0.297		0.018	0.009	
o-Xylene	0.246		0.009	0.004	
Isopropylbenzene	0.072		0.009	0.004	
n-Propylbenzene	0.113		0.009	0.004	
1,3,5-Trimethylbenzene	0.154		0.009	0.004	
1,2,4-Trimethylbenzene	0.561		0.009	0.004	
t-Butylbenzene		U	0.009	0.004	
sec-Butylbenzene	0.073		0.009	0.004	
p-Isopropyltoluene	0.255		0.009	0.004	
n-Butylbenzene	0.255		0.009	0.004	
C1 - Benzene	1.53	B	0.009	0.004	
C2 - Benzene	0.970	B	0.009	0.004	
C3 - Benzene	0.775		0.009	0.004	
C4 - Benzene	1.6		0.009	0.004	
C5 - Benzene	2.12		0.009	0.004	
trans-Decalin	1.99		0.009	0.004	
cis-Decalin	0.141		0.009	0.004	
Naphthalene	5.04	B	0.009	0.004	
2-Methylnaphthalene	3.08	B	0.009	0.004	
1-Methylnaphthalene	1.88	B	0.009	0.004	
C1 - Naphthalene	3.15	B	0.009	0.004	
C2 - Naphthalene	6.09	B	0.009	0.004	
C3- Naphthalene	8.15		0.009	0.004	
C4- Naphthalene	6.88		0.009	0.004	
Acenaphthylene	2.07		0.009	0.004	
Acenaphthene	2.96		0.009	0.004	
Dibenzofuran	1.99		0.009	0.004	
Fluorene	3.88		0.009	0.004	
C1 - Fluorene	2.4		0.009	0.004	
C2 - Fluorene	4.09		0.009	0.004	
C3 - Fluorene	4.6		0.009	0.004	
Phenanthrene	17.8	B	0.009	0.004	
Anthracene	6.46		0.009	0.004	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-001 (5.0'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-06		
File ID:	E031912.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	52%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	12.5	0.009	0.004	
C2 - Phenanthrene/Anthracene	11.6	0.009	0.004	
C3 - Phenanthrene/Anthracene	7.55	0.009	0.004	
C4 - Phenanthrene/Anthracene	3.9	0.009	0.004	
Dibenzothiophene	1.74	0.009	0.004	
C1 - Dibenzothiophene	3.58	0.009	0.004	
C2 - Dibenzothiophene	6.59	0.009	0.004	
C3 - Dibenzothiophene	6.49	0.009	0.004	
C4 - Dibenzothiophene	3.74	0.009	0.004	
Benzo(b)naphtho(2,1-d)thiophene	1.96	0.009	0.004	
Fluoranthene	21.1	0.009	0.004	
Pyrene	19.0 B	0.009	0.004	
C1 - Fluoranthene/Pyrene	14.7	0.009	0.004	
C2 - Fluoranthene/Pyrene	6.44	0.009	0.004	
C3 - Fluoranthene/Pyrene	3.95	0.009	0.004	
Benz[a]anthracene	9.19	0.009	0.004	
Chrysene*	10.1	0.009	0.004	
C1 - Benz(a)anthracene/Chrysene	5.29	0.009	0.004	
C2 - Benz(a)anthracene/Chrysene	3.14	0.009	0.004	
C3 - Benz(a)anthracene/Chrysene	2.03	0.009	0.004	
C4 - Benz(a)anthracene/Chrysene	1.44	0.009	0.004	
Benzo[b]fluoranthene	7.22	0.009	0.004	
Benzo[j/k]fluoranthene	6.91	0.009	0.004	
Benzo(e)pyrene	5.56	0.009	0.004	
Benzo[a]pyrene	8.05	0.009	0.004	
Perylene	1.69	0.009	0.004	
Indeno[1,2,3-cd]pyrene	4.92	0.009	0.004	
Dibenz[a,h]anthracene	1.33	0.009	0.004	
Benzo[g,h,i]perylene	4.28	0.009	0.004	
Coronene	1.27	0.009	0.004	
Retene	3.86	0.009	0.004	
Benzo(b/c)fluorenes	3.09	0.009	0.004	
2-Methylpyrene	1.88	0.009	0.004	
4-Methylpyrene	1.76	0.009	0.004	
1-Methylpyrene	1.49	0.009	0.004	
Heptadecane	1.64 B	0.009	0.004	
Pristane	24.1	0.009	0.004	
Octadecane	0.939 B	0.009	0.004	
Phytane	17.2	0.009	0.004	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-001 (5.0'-6.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-06		
File ID:	E031912.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.21
Date Cleanup:	NA	Percent Solid:	52%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	10.2	0.009	0.004	
2,6,10-trimethyltridecane	14.4	0.009	0.004	
Norpristane	12.0	0.009	0.004	
Total PAH (16)	130	0.009	0.004	
Total PAH (42)	270	0.009	0.004	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	90	50 - 120
Phenanthrene-d10	89	50 - 120
Perylene-d12	84	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-002 (8.3'-8.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-07-D		
File ID:	E031913.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.627		0.060	0.030	
Toluene	1.34	B	0.060	0.030	
Ethylbenzene	11.0		0.060	0.030	
m/p-Xylenes	4.87	B	0.060	0.030	
Styrene	2.15		0.119	0.060	
o-Xylene	4.66		0.060	0.030	
Isopropylbenzene	3.33		0.060	0.030	
n-Propylbenzene	1.55		0.060	0.030	
1,3,5-Trimethylbenzene	4.48		0.060	0.030	
1,2,4-Trimethylbenzene	15.5		0.060	0.030	
t-Butylbenzene		U	0.060	0.030	
sec-Butylbenzene	0.254		0.060	0.030	
p-Isopropyltoluene	2.92		0.060	0.030	
n-Butylbenzene	2.74		0.060	0.030	
C1 - Benzene	1.08	B	0.060	0.030	
C2 - Benzene	10.6	B	0.060	0.030	
C3 - Benzene	20.7		0.060	0.030	
C4 - Benzene	24.3		0.060	0.030	
C5 - Benzene	10.0		0.060	0.030	
trans-Decalin	0.972		0.060	0.030	
cis-Decalin		U	0.060	0.030	
Naphthalene	230	B	0.060	0.030	
2-Methylnaphthalene	196	B	0.060	0.030	
1-Methylnaphthalene	118	B	0.060	0.030	
C1 - Naphthalene	200	B	0.060	0.030	
C2 - Naphthalene	160	B	0.060	0.030	
C3- Naphthalene	68.7		0.060	0.030	
C4- Naphthalene	19.9		0.060	0.030	
Acenaphthylene	13.3		0.060	0.030	
Acenaphthene	102		0.060	0.030	
Dibenzofuran	18.6		0.060	0.030	
Fluorene	63.2		0.060	0.030	
C1 - Fluorene	38.3		0.060	0.030	
C2 - Fluorene	29.5		0.060	0.030	
C3 - Fluorene	11.7		0.060	0.030	
Phenanthrene	200	B	0.060	0.030	
Anthracene	76.9		0.060	0.030	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-002 (8.3'-8.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-07-D		
File ID:	E031913.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	153		0.060	0.030	
C2 - Phenanthrene/Anthracene	67.5		0.060	0.030	
C3 - Phenanthrene/Anthracene	20.2		0.060	0.030	
C4 - Phenanthrene/Anthracene	6.06		0.060	0.030	
Dibenzothiophene	23.5		0.060	0.030	
C1 - Dibenzothiophene	27.5		0.060	0.030	
C2 - Dibenzothiophene	21.6		0.060	0.030	
C3 - Dibenzothiophene	10.5		0.060	0.030	
C4 - Dibenzothiophene	3.4		0.060	0.030	
Benzo(b)naphtho(2,1-d)thiophene	8.56		0.060	0.030	
Fluoranthene	78.8		0.060	0.030	
Pyrene	102	B	0.060	0.030	
C1 - Fluoranthene/Pyrene	97.8		0.060	0.030	
C2 - Fluoranthene/Pyrene	35.4		0.060	0.030	
C3 - Fluoranthene/Pyrene	13.1		0.060	0.030	
Benz[a]anthracene	40.2		0.060	0.030	
Chrysene*	40.5		0.060	0.030	
C1 - Benz(a)anthracene/Chrysene	32.9		0.060	0.030	
C2 - Benz(a)anthracene/Chrysene	14.6		0.060	0.030	
C3 - Benz(a)anthracene/Chrysene	5.43		0.060	0.030	
C4 - Benz(a)anthracene/Chrysene	2.54		0.060	0.030	
Benzo[b]fluoranthene	15.8		0.060	0.030	
Benzo[j/k]fluoranthene	19.4		0.060	0.030	
Benzo(e)pyrene	16.5		0.060	0.030	
Benzo[a]pyrene	29.1		0.060	0.030	
Perylene	5.12		0.060	0.030	
Indeno[1,2,3-cd]pyrene	12.4		0.060	0.030	
Dibenz[a,h]anthracene	3.89		0.060	0.030	
Benzo[g,h,i]perylene	11.4		0.060	0.030	
Coronene	2.67		0.060	0.030	
Retene	3.1		0.060	0.030	
Benzo(b/c)fluorenes	15.1		0.060	0.030	
2-Methylpyrene	13.2		0.060	0.030	
4-Methylpyrene	12.6		0.060	0.030	
1-Methylpyrene	14.4		0.060	0.030	
Heptadecane	1.67	B	0.060	0.030	
Pristane	15.4		0.060	0.030	
Octadecane	1.16	B	0.060	0.030	
Phytane	9.68		0.060	0.030	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB039-002 (8.3'-8.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-07-D		
File ID:	E031913.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.30
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/20/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	5.06	0.060	0.030	
2,6,10-trimethyltridecane	8.18	0.060	0.030	
Norpristane	7.09	0.060	0.030	
Total PAH (16)	1,040	0.060	0.030	
Total PAH (42)	2,140	0.060	0.030	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	89	50 - 120
Phenanthrene-d10	88	50 - 120
Perylene-d12	112	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-001 (2.2'-2.9')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-08-D2		
File ID:	E032111.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	83%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	500.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	15.4	B	2.74	1.37	
Toluene	19.7	B	2.74	1.37	
Ethylbenzene	82.1		2.74	1.37	
m/p-Xylenes	103		2.74	1.37	
Styrene	9.25		5.48	2.74	
o-Xylene	47.5		2.74	1.37	
Isopropylbenzene	12.5		2.74	1.37	
n-Propylbenzene	1.88	J	2.74	1.37	
1,3,5-Trimethylbenzene	42.6		2.74	1.37	
1,2,4-Trimethylbenzene	86.4		2.74	1.37	
t-Butylbenzene		U	2.74	1.37	
sec-Butylbenzene		U	2.74	1.37	
p-Isopropyltoluene	11.4		2.74	1.37	
n-Butylbenzene	3.57		2.74	1.37	
C1 - Benzene	14.7	B	2.74	1.37	
C2 - Benzene	126		2.74	1.37	
C3 - Benzene	132		2.74	1.37	
C4 - Benzene	52.6		2.74	1.37	
C5 - Benzene	17.2		2.74	1.37	
trans-Decalin		U	2.74	1.37	
cis-Decalin		U	2.74	1.37	
Naphthalene	6,810	B	2.74	1.37	
2-Methylnaphthalene	1,750	B	2.74	1.37	
1-Methylnaphthalene	870	B	2.74	1.37	
C1 - Naphthalene	1,690	B	2.74	1.37	
C2 - Naphthalene	635		2.74	1.37	
C3- Naphthalene	192		2.74	1.37	
C4- Naphthalene	49.4		2.74	1.37	
Acenaphthylene	309	B	2.74	1.37	
Acenaphthene	1,720	B	2.74	1.37	
Dibenzofuran	851		2.74	1.37	
Fluorene	1,310		2.74	1.37	
C1 - Fluorene	220		2.74	1.37	
C2 - Fluorene	98.1		2.74	1.37	
C3 - Fluorene	39.8		2.74	1.37	
Phenanthrene	3,140	B	2.74	1.37	
Anthracene	1,290		2.74	1.37	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-001 (2.2'-2.9')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-08-D2		
File ID:	E032111.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	83%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	500.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	909		2.74	1.37	
C2 - Phenanthrene/Anthracene	282		2.74	1.37	
C3 - Phenanthrene/Anthracene	81.4		2.74	1.37	
C4 - Phenanthrene/Anthracene	2.35	J	2.74	1.37	
Dibenzothiophene	204		2.74	1.37	
C1 - Dibenzothiophene	96.1		2.74	1.37	
C2 - Dibenzothiophene	59.9		2.74	1.37	
C3 - Dibenzothiophene	27.1		2.74	1.37	
C4 - Dibenzothiophene	9.3		2.74	1.37	
Benzo(b)naphtho(2,1-d)thiophene	81.2		2.74	1.37	
Fluoranthene	1,940		2.74	1.37	
Pyrene	1,410		2.74	1.37	
C1 - Fluoranthene/Pyrene	1,170		2.74	1.37	
C2 - Fluoranthene/Pyrene	280		2.74	1.37	
C3 - Fluoranthene/Pyrene	85.6		2.74	1.37	
Benz[a]anthracene	752		2.74	1.37	
Chrysene*	652		2.74	1.37	
C1 - Benz(a)anthracene/Chrysene	283		2.74	1.37	
C2 - Benz(a)anthracene/Chrysene	96.9		2.74	1.37	
C3 - Benz(a)anthracene/Chrysene	44.9		2.74	1.37	
C4 - Benz(a)anthracene/Chrysene	27.2		2.74	1.37	
Benzo[b]fluoranthene	383		2.74	1.37	
Benzo[j/k]fluoranthene	486		2.74	1.37	
Benzo(e)pyrene	285		2.74	1.37	
Benzo[a]pyrene	548		2.74	1.37	
Perylene	114		2.74	1.37	
Indeno[1,2,3-cd]pyrene	268		2.74	1.37	
Dibenz[a,h]anthracene	72.8	B	2.74	1.37	
Benzo[g,h,i]perylene	204		2.74	1.37	
Coronene	53.7		2.74	1.37	
Retene		U	2.74	1.37	
Benzo(b/c)fluorenes	300		2.74	1.37	
2-Methylpyrene	98.8		2.74	1.37	
4-Methylpyrene	74.6		2.74	1.37	
1-Methylpyrene	99.9		2.74	1.37	
Heptadecane	16.8	B	2.74	1.37	
Pristane	15.6		2.74	1.37	
Octadecane	12.5	B	2.74	1.37	
Phytane	10.4		2.74	1.37	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-001 (2.2'-2.9')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-08-D2		
File ID:	E032111.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.19
Date Cleanup:	NA	Percent Solid:	83%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	500.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	6.67	2.74	1.37	
2,6,10-trimethyltridecane	10.3	2.74	1.37	
Norpristane	8.2	2.74	1.37	
Total PAH (16)	21,300	2.74	1.37	
Total PAH (42)	29,100	2.74	1.37	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	97	50 - 120
Phenanthrene-d10	94	50 - 120
Perylene-d12	954	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-002 (4.8'-5.5')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-09-D		
File ID:	E032112.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.25
Date Cleanup:	NA	Percent Solid:	68%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	5.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	13.1	B	0.033	0.016	
Toluene	2.39	B	0.033	0.016	
Ethylbenzene	0.287		0.033	0.016	
m/p-Xylenes	1.92		0.033	0.016	
Styrene	0.374		0.066	0.033	
o-Xylene	0.343		0.033	0.016	
Isopropylbenzene	0.461		0.033	0.016	
n-Propylbenzene	0.229		0.033	0.016	
1,3,5-Trimethylbenzene	0.132		0.033	0.016	
1,2,4-Trimethylbenzene	0.363		0.033	0.016	
t-Butylbenzene	0.070		0.033	0.016	
sec-Butylbenzene	0.121		0.033	0.016	
p-Isopropyltoluene	0.203		0.033	0.016	
n-Butylbenzene	0.316		0.033	0.016	
C1 - Benzene	1.89	B	0.033	0.016	
C2 - Benzene	1.47		0.033	0.016	
C3 - Benzene	1.27		0.033	0.016	
C4 - Benzene	1.87		0.033	0.016	
C5 - Benzene	2.06		0.033	0.016	
trans-Decalin	1.41		0.033	0.016	
cis-Decalin	0.132		0.033	0.016	
Naphthalene	13.6	B	0.033	0.016	
2-Methylnaphthalene	9.85	B	0.033	0.016	
1-Methylnaphthalene	6.17	B	0.033	0.016	
C1 - Naphthalene	10.2	B	0.033	0.016	
C2 - Naphthalene	11.8		0.033	0.016	
C3- Naphthalene	10.8		0.033	0.016	
C4- Naphthalene	7.42		0.033	0.016	
Acenaphthylene	3.36	B	0.033	0.016	
Acenaphthene	8.61	B	0.033	0.016	
Dibenzofuran	5.38		0.033	0.016	
Fluorene	10.7		0.033	0.016	
C1 - Fluorene	4.39		0.033	0.016	
C2 - Fluorene	5.89		0.033	0.016	
C3 - Fluorene	5.0		0.033	0.016	
Phenanthrene	43.3	B	0.033	0.016	
Anthracene	15.6		0.033	0.016	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-002 (4.8'-5.5')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-09-D		
File ID:	E032112.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.25
Date Cleanup:	NA	Percent Solid:	68%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	5.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	23.5	0.033	0.016	
C2 - Phenanthrene/Anthracene	15.7	0.033	0.016	
C3 - Phenanthrene/Anthracene	8.69	0.033	0.016	
C4 - Phenanthrene/Anthracene	4.26	0.033	0.016	
Dibenzothiophene	3.64	0.033	0.016	
C1 - Dibenzothiophene	5.07	0.033	0.016	
C2 - Dibenzothiophene	7.16	0.033	0.016	
C3 - Dibenzothiophene	6.08	0.033	0.016	
C4 - Dibenzothiophene	3.13	0.033	0.016	
Benzo(b)naphtho(2,1-d)thiophene	3.25	0.033	0.016	
Fluoranthene	40.6	0.033	0.016	
Pyrene	34.7	0.033	0.016	
C1 - Fluoranthene/Pyrene	26.0	0.033	0.016	
C2 - Fluoranthene/Pyrene	9.55	0.033	0.016	
C3 - Fluoranthene/Pyrene	4.83	0.033	0.016	
Benz[a]anthracene	17.5	0.033	0.016	
Chrysene*	18.2	0.033	0.016	
C1 - Benz(a)anthracene/Chrysene	9.15	0.033	0.016	
C2 - Benz(a)anthracene/Chrysene	4.46	0.033	0.016	
C3 - Benz(a)anthracene/Chrysene	2.53	0.033	0.016	
C4 - Benz(a)anthracene/Chrysene	1.64	0.033	0.016	
Benzo[b]fluoranthene	11.4	0.033	0.016	
Benzo[j/k]fluoranthene	11.8	0.033	0.016	
Benzo(e)pyrene	9.02	0.033	0.016	
Benzo[a]pyrene	13.7	0.033	0.016	
Perylene	2.99	0.033	0.016	
Indeno[1,2,3-cd]pyrene	7.64	0.033	0.016	
Dibenz[a,h]anthracene	2.02 B	0.033	0.016	
Benzo[g,h,i]perylene	6.59	0.033	0.016	
Coronene	1.51	0.033	0.016	
Retene	6.39	0.033	0.016	
Benzo(b/c)fluorenes	5.92	0.033	0.016	
2-Methylpyrene	3.08	0.033	0.016	
4-Methylpyrene	2.67	0.033	0.016	
1-Methylpyrene	2.35	0.033	0.016	
Heptadecane	1.25 B	0.033	0.016	
Pristane	18.9	0.033	0.016	
Octadecane	0.911 B	0.033	0.016	
Phytane	13.0	0.033	0.016	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB042-002 (4.8'-5.5')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-09-D		
File ID:	E032112.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.25
Date Cleanup:	NA	Percent Solid:	68%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	5.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	7.17	0.033	0.016	
2,6,10-trimethyltridecane	9.44	0.033	0.016	
Norpristane	8.36	0.033	0.016	
Total PAH (16)	259	0.033	0.016	
Total PAH (42)	468	0.033	0.016	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	89	50 - 120
Phenanthrene-d10	87	50 - 120
Perylene-d12	86	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-001 (2.5'-3.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-10-D		
File ID:	E032115.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.18
Date Cleanup:	NA	Percent Solid:	76%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	2.27	B	0.122	0.061	
Toluene	0.893	B	0.122	0.061	
Ethylbenzene	2.24		0.122	0.061	
m/p-Xylenes	2.04		0.122	0.061	
Styrene	1.22		0.243	0.122	
o-Xylene	0.896		0.122	0.061	
Isopropylbenzene	1.8		0.122	0.061	
n-Propylbenzene	0.875		0.122	0.061	
1,3,5-Trimethylbenzene	3.06		0.122	0.061	
1,2,4-Trimethylbenzene	4.49		0.122	0.061	
t-Butylbenzene		U	0.122	0.061	
sec-Butylbenzene	0.139		0.122	0.061	
p-Isopropyltoluene	2.0		0.122	0.061	
n-Butylbenzene	1.66		0.122	0.061	
C1 - Benzene	0.709	B	0.122	0.061	
C2 - Benzene	2.93		0.122	0.061	
C3 - Benzene	9.98		0.122	0.061	
C4 - Benzene	18.0		0.122	0.061	
C5 - Benzene	9.03		0.122	0.061	
trans-Decalin	0.838		0.122	0.061	
cis-Decalin		U	0.122	0.061	
Naphthalene	278	B	0.122	0.061	
2-Methylnaphthalene	207	B	0.122	0.061	
1-Methylnaphthalene	113	B	0.122	0.061	
C1 - Naphthalene	203	B	0.122	0.061	
C2 - Naphthalene	151		0.122	0.061	
C3- Naphthalene	63.1		0.122	0.061	
C4- Naphthalene	18.6		0.122	0.061	
Acenaphthylene	11.8	B	0.122	0.061	
Acenaphthene	118	B	0.122	0.061	
Dibenzofuran	26.1		0.122	0.061	
Fluorene	65.9		0.122	0.061	
C1 - Fluorene	35.2		0.122	0.061	
C2 - Fluorene	28.0		0.122	0.061	
C3 - Fluorene	12.7		0.122	0.061	
Phenanthrene	226	B	0.122	0.061	
Anthracene	76.9		0.122	0.061	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-001 (2.5'-3.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-10-D		
File ID:	E032115.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.18
Date Cleanup:	NA	Percent Solid:	76%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	162	0.122	0.061	
C2 - Phenanthrene/Anthracene	71.0	0.122	0.061	
C3 - Phenanthrene/Anthracene	21.1	0.122	0.061	
C4 - Phenanthrene/Anthracene	6.27	0.122	0.061	
Dibenzothiophene	21.7	0.122	0.061	
C1 - Dibenzothiophene	25.5	0.122	0.061	
C2 - Dibenzothiophene	20.2	0.122	0.061	
C3 - Dibenzothiophene	9.26	0.122	0.061	
C4 - Dibenzothiophene	3.24	0.122	0.061	
Benzo(b)naphtho(2,1-d)thiophene	9.72	0.122	0.061	
Fluoranthene	89.8	0.122	0.061	
Pyrene	116	0.122	0.061	
C1 - Fluoranthene/Pyrene	111	0.122	0.061	
C2 - Fluoranthene/Pyrene	38.3	0.122	0.061	
C3 - Fluoranthene/Pyrene	16.4	0.122	0.061	
Benz[a]anthracene	49.8	0.122	0.061	
Chrysene*	49.7	0.122	0.061	
C1 - Benz(a)anthracene/Chrysene	38.9	0.122	0.061	
C2 - Benz(a)anthracene/Chrysene	17.3	0.122	0.061	
C3 - Benz(a)anthracene/Chrysene	6.02	0.122	0.061	
C4 - Benz(a)anthracene/Chrysene	2.9	0.122	0.061	
Benzo[b]fluoranthene	19.8	0.122	0.061	
Benzo[j/k]fluoranthene	23.5	0.122	0.061	
Benzo(e)pyrene	21.4	0.122	0.061	
Benzo[a]pyrene	36.2	0.122	0.061	
Perylene	5.88	0.122	0.061	
Indeno[1,2,3-cd]pyrene	14.7	0.122	0.061	
Dibenz[a,h]anthracene	4.86 B	0.122	0.061	
Benzo[g,h,i]perylene	13.8	0.122	0.061	
Coronene	3.2	0.122	0.061	
Retene	4.0	0.122	0.061	
Benzo(b/c)fluorenes	16.7	0.122	0.061	
2-Methylpyrene	16.6	0.122	0.061	
4-Methylpyrene	13.9	0.122	0.061	
1-Methylpyrene	15.4	0.122	0.061	
Heptadecane	1.98 B	0.122	0.061	
Pristane	11.3	0.122	0.061	
Octadecane	1.28 B	0.122	0.061	
Phytane	6.59	0.122	0.061	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-001 (2.5'-3.0')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-10-D		
File ID:	E032115.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.18
Date Cleanup:	NA	Percent Solid:	76%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	5.08	0.122	0.061	
2,6,10-trimethyltridecane	6.68	0.122	0.061	
Norpristane	5.74	0.122	0.061	
Total PAH (16)	1,190	0.122	0.061	
Total PAH (42)	2,330	0.122	0.061	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	95	50 - 120
Phenanthrene-d10	91	50 - 120
Perylene-d12	127	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-002 (4.3'-4.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-11-D		
File ID:	E032116.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.29
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	1.24	B	0.054	0.027	
Toluene	1.16	B	0.054	0.027	
Ethylbenzene	0.662		0.054	0.027	
m/p-Xylenes	1.26		0.054	0.027	
Styrene	1.28		0.109	0.055	
o-Xylene	0.557		0.054	0.027	
Isopropylbenzene	1.5		0.054	0.027	
n-Propylbenzene	0.606		0.054	0.027	
1,3,5-Trimethylbenzene	2.14		0.054	0.027	
1,2,4-Trimethylbenzene	2.68		0.054	0.027	
t-Butylbenzene		U	0.054	0.027	
sec-Butylbenzene	0.134		0.054	0.027	
p-Isopropyltoluene	1.27		0.054	0.027	
n-Butylbenzene	1.25		0.054	0.027	
C1 - Benzene	0.902	B	0.054	0.027	
C2 - Benzene	1.48		0.054	0.027	
C3 - Benzene	6.39		0.054	0.027	
C4 - Benzene	12.4		0.054	0.027	
C5 - Benzene	5.9		0.054	0.027	
trans-Decalin	1.25		0.054	0.027	
cis-Decalin	0.128		0.054	0.027	
Naphthalene	142	B	0.054	0.027	
2-Methylnaphthalene	141	B	0.054	0.027	
1-Methylnaphthalene	79.3	B	0.054	0.027	
C1 - Naphthalene	140	B	0.054	0.027	
C2 - Naphthalene	92.7		0.054	0.027	
C3- Naphthalene	38.6		0.054	0.027	
C4- Naphthalene	12.4		0.054	0.027	
Acenaphthylene	10.4	B	0.054	0.027	
Acenaphthene	84.7	B	0.054	0.027	
Dibenzofuran	26.4		0.054	0.027	
Fluorene	55.3		0.054	0.027	
C1 - Fluorene	23.6		0.054	0.027	
C2 - Fluorene	17.1		0.054	0.027	
C3 - Fluorene	7.52		0.054	0.027	
Phenanthrene	162	B	0.054	0.027	
Anthracene	61.7		0.054	0.027	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-002 (4.3'-4.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-11-D		
File ID:	E032116.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.29
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	100	0.054	0.027	
C2 - Phenanthrene/Anthracene	42.8	0.054	0.027	
C3 - Phenanthrene/Anthracene	13.6	0.054	0.027	
C4 - Phenanthrene/Anthracene	4.53	0.054	0.027	
Dibenzothiophene	15.2	0.054	0.027	
C1 - Dibenzothiophene	16.0	0.054	0.027	
C2 - Dibenzothiophene	13.3	0.054	0.027	
C3 - Dibenzothiophene	7.5	0.054	0.027	
C4 - Dibenzothiophene	3.24	0.054	0.027	
Benzo(b)naphtho(2,1-d)thiophene	6.4	0.054	0.027	
Fluoranthene	83.9	0.054	0.027	
Pyrene	86.7	0.054	0.027	
C1 - Fluoranthene/Pyrene	76.4	0.054	0.027	
C2 - Fluoranthene/Pyrene	23.3	0.054	0.027	
C3 - Fluoranthene/Pyrene	8.97	0.054	0.027	
Benz[a]anthracene	37.3	0.054	0.027	
Chrysene*	36.3	0.054	0.027	
C1 - Benz(a)anthracene/Chrysene	23.1	0.054	0.027	
C2 - Benz(a)anthracene/Chrysene	9.5	0.054	0.027	
C3 - Benz(a)anthracene/Chrysene	3.88	0.054	0.027	
C4 - Benz(a)anthracene/Chrysene	1.98	0.054	0.027	
Benzo[b]fluoranthene	17.6	0.054	0.027	
Benzo[j/k]fluoranthene	20.3	0.054	0.027	
Benzo(e)pyrene	16.4	0.054	0.027	
Benzo[a]pyrene	28.5	0.054	0.027	
Perylene	5.12	0.054	0.027	
Indeno[1,2,3-cd]pyrene	13.0	0.054	0.027	
Dibenz[a,h]anthracene	3.83 B	0.054	0.027	
Benzo[g,h,i]perylene	11.6	0.054	0.027	
Coronene	2.61	0.054	0.027	
Retene	3.3	0.054	0.027	
Benzo(b/c)fluorenes	13.9	0.054	0.027	
2-Methylpyrene	9.56	0.054	0.027	
4-Methylpyrene	8.63	0.054	0.027	
1-Methylpyrene	9.47	0.054	0.027	
Heptadecane	1.46 B	0.054	0.027	
Pristane	16.7	0.054	0.027	
Octadecane	0.869 B	0.054	0.027	
Phytane	11.1	0.054	0.027	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB044-002 (4.3'-4.8')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-11-D		
File ID:	E032116.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.29
Date Cleanup:	NA	Percent Solid:	80%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	10.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	6.06	0.054	0.027	
2,6,10-trimethyltridecane	8.08	0.054	0.027	
Norpristane	7.42	0.054	0.027	
Total PAH (16)	855	0.054	0.027	
Total PAH (42)	1,600	0.054	0.027	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	94	50 - 120
Phenanthrene-d10	92	50 - 120
Perylene-d12	113	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB043-001 (0'-0.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-12-D2		
File ID:	E032117.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.44
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	200.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	5.88	B	1.12	0.560	
Toluene	4.55	B	1.12	0.560	
Ethylbenzene	8.52		1.12	0.560	
m/p-Xylenes	5.73		1.12	0.560	
Styrene	2.5		2.23	1.12	
o-Xylene	2.94		1.12	0.560	
Isopropylbenzene	1.64		1.12	0.560	
n-Propylbenzene		U	1.12	0.560	
1,3,5-Trimethylbenzene	4.47		1.12	0.560	
1,2,4-Trimethylbenzene	5.84		1.12	0.560	
t-Butylbenzene		U	1.12	0.560	
sec-Butylbenzene		U	1.12	0.560	
p-Isopropyltoluene	0.691	J	1.12	0.560	
n-Butylbenzene		U	1.12	0.560	
C1 - Benzene	3.5	B	1.12	0.560	
C2 - Benzene	9.86		1.12	0.560	
C3 - Benzene	12.6		1.12	0.560	
C4 - Benzene	7.89		1.12	0.560	
C5 - Benzene	4.67		1.12	0.560	
trans-Decalin	0.610	J	1.12	0.560	
cis-Decalin		U	1.12	0.560	
Naphthalene	2,180	B	1.12	0.560	
2-Methylnaphthalene	372	B	1.12	0.560	
1-Methylnaphthalene	172	B	1.12	0.560	
C1 - Naphthalene	346	B	1.12	0.560	
C2 - Naphthalene	104		1.12	0.560	
C3- Naphthalene	36.5		1.12	0.560	
C4- Naphthalene	14.3		1.12	0.560	
Acenaphthylene	68.2	B	1.12	0.560	
Acenaphthene	719	B	1.12	0.560	
Dibenzofuran	253		1.12	0.560	
Fluorene	382		1.12	0.560	
C1 - Fluorene	38.7		1.12	0.560	
C2 - Fluorene	16.1		1.12	0.560	
C3 - Fluorene	8.44		1.12	0.560	
Phenanthrene	1,130	B	1.12	0.560	
Anthracene	402		1.12	0.560	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB043-001 (0'-0.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-12-D2		
File ID:	E032117.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.44
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	200.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	187		1.12	0.560	
C2 - Phenanthrene/Anthracene	58.0		1.12	0.560	
C3 - Phenanthrene/Anthracene	19.0		1.12	0.560	
C4 - Phenanthrene/Anthracene	5.27		1.12	0.560	
Dibenzothiophene	68.6		1.12	0.560	
C1 - Dibenzothiophene	20.0		1.12	0.560	
C2 - Dibenzothiophene	13.3		1.12	0.560	
C3 - Dibenzothiophene	8.99		1.12	0.560	
C4 - Dibenzothiophene	3.91		1.12	0.560	
Benzo(b)naphtho(2,1-d)thiophene	61.2		1.12	0.560	
Fluoranthene	973		1.12	0.560	
Pyrene	678		1.12	0.560	
C1 - Fluoranthene/Pyrene	377		1.12	0.560	
C2 - Fluoranthene/Pyrene	68.7		1.12	0.560	
C3 - Fluoranthene/Pyrene	21.9		1.12	0.560	
Benz[a]anthracene	365		1.12	0.560	
Chrysene*	359		1.12	0.560	
C1 - Benz(a)anthracene/Chrysene	86.6		1.12	0.560	
C2 - Benz(a)anthracene/Chrysene	28.0		1.12	0.560	
C3 - Benz(a)anthracene/Chrysene	15.0		1.12	0.560	
C4 - Benz(a)anthracene/Chrysene	8.8		1.12	0.560	
Benzo[b]fluoranthene	270		1.12	0.560	
Benzo[j/k]fluoranthene	281		1.12	0.560	
Benzo(e)pyrene	198		1.12	0.560	
Benzo[a]pyrene	328		1.12	0.560	
Perylene	88.8		1.12	0.560	
Indeno[1,2,3-cd]pyrene	208		1.12	0.560	
Dibenz[a,h]anthracene	50.9	B	1.12	0.560	
Benzo[g,h,i]perylene	173		1.12	0.560	
Coronene	42.7		1.12	0.560	
Retene	2.6		1.12	0.560	
Benzo(b/c)fluorenes	116		1.12	0.560	
2-Methylpyrene	28.6		1.12	0.560	
4-Methylpyrene	20.5		1.12	0.560	
1-Methylpyrene	24.2		1.12	0.560	
Heptadecane	2.94	B	1.12	0.560	
Pristane	19.3		1.12	0.560	
Octadecane		BU	1.12	0.560	
Phytane	13.5		1.12	0.560	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: CRAW-CSB043-001 (0'-0.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-12-D2		
File ID:	E032117.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/8/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/15/2007	Sample Size (g):	2.44
Date Cleanup:	NA	Percent Solid:	73%
Date Analyzed:	3/22/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	200.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	6.7	1.12	0.560	
2,6,10-trimethyltridecane	10.8	1.12	0.560	
Norpristane	9.57	1.12	0.560	
Total PAH (16)	8,570	1.12	0.560	
Total PAH (42)	10,700	1.12	0.560	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	90	50 - 120
Phenanthrene-d10	84	50 - 120
Perylene-d12	425	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SB		
File ID:	E031904.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
MAH & PAH COMPOUNDS:				
Benzene	U	0.005	0.003	
Toluene	0.297	0.005	0.003	
Ethylbenzene	U	0.005	0.003	
m/p-Xylenes	0.003 J	0.005	0.003	
Styrene	U	0.010	0.005	
o-Xylene	U	0.005	0.003	
Isopropylbenzene	U	0.005	0.003	
n-Propylbenzene	U	0.005	0.003	
1,3,5-Trimethylbenzene	U	0.005	0.003	
1,2,4-Trimethylbenzene	U	0.005	0.003	
t-Butylbenzene	U	0.005	0.003	
sec-Butylbenzene	U	0.005	0.003	
p-Isopropyltoluene	U	0.005	0.003	
n-Butylbenzene	U	0.005	0.003	
C1 - Benzene	0.234	0.005	0.003	
C2 - Benzene	0.004 J	0.005	0.003	
C3 - Benzene	U	0.005	0.003	
C4 - Benzene	U	0.005	0.003	
C5 - Benzene	U	0.005	0.003	
trans-Decalin	U	0.005	0.003	
cis-Decalin	U	0.005	0.003	
Naphthalene	0.014	0.005	0.003	
2-Methylnaphthalene	0.011	0.005	0.003	
1-Methylnaphthalene	0.007	0.005	0.003	
C1 - Naphthalene	0.011	0.005	0.003	
C2 - Naphthalene	0.008	0.005	0.003	
C3- Naphthalene	U	0.005	0.003	
C4- Naphthalene	U	0.005	0.003	
Acenaphthylene	U	0.005	0.003	
Acenaphthene	U	0.005	0.003	
Dibenzofuran	U	0.005	0.003	
Fluorene	U	0.005	0.003	
C1 - Fluorene	U	0.005	0.003	
C2 - Fluorene	U	0.005	0.003	
C3 - Fluorene	U	0.005	0.003	
Phenanthrene	0.007	0.005	0.003	
Anthracene	U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SB		
File ID:	E031904.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	U	0.005	0.003	
C2 - Phenanthrene/Anthracene	U	0.005	0.003	
C3 - Phenanthrene/Anthracene	U	0.005	0.003	
C4 - Phenanthrene/Anthracene	U	0.005	0.003	
Dibenzothiophene	U	0.005	0.003	
C1 - Dibenzothiophene	U	0.005	0.003	
C2 - Dibenzothiophene	U	0.005	0.003	
C3 - Dibenzothiophene	U	0.005	0.003	
C4 - Dibenzothiophene	U	0.005	0.003	
Benzo(b)naphtho(2,1-d)thiophene	U	0.005	0.003	
Fluoranthene	U	0.005	0.003	
Pyrene	0.003 J	0.005	0.003	
C1 - Fluoranthene/Pyrene	U	0.005	0.003	
C2 - Fluoranthene/Pyrene	U	0.005	0.003	
C3 - Fluoranthene/Pyrene	U	0.005	0.003	
Benz[a]anthracene	U	0.005	0.003	
Chrysene*	U	0.005	0.003	
C1 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C2 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C3 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C4 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
Benzo[b]fluoranthene	U	0.005	0.003	
Benzo[j/k]fluoranthene	U	0.005	0.003	
Benzo(e)pyrene	U	0.005	0.003	
Benzo[a]pyrene	U	0.005	0.003	
Perylene	U	0.005	0.003	
Indeno[1,2,3-cd]pyrene	U	0.005	0.003	
Dibenz[a,h]anthracene	U	0.005	0.003	
Benzo[g,h,i]perylene	U	0.005	0.003	
Coronene	U	0.005	0.003	
Retene	U	0.005	0.003	
Benzo(b/c)fluorenes	U	0.005	0.003	
2-Methylpyrene	U	0.005	0.003	
4-Methylpyrene	U	0.005	0.003	
1-Methylpyrene	U	0.005	0.003	
Heptadecane	0.007	0.005	0.003	
Pristane	U	0.005	0.003	
Octadecane	0.007	0.005	0.003	
Phytane	U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SB		
File ID:	E031904.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.005	0.003	
2,6,10-trimethyltridecane	U	0.005	0.003	
Norpristane	U	0.005	0.003	
Total PAH (16)	0.024	0.005	0.003	
Total PAH (42)	0.043	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	102	50 - 120
Phenanthrene-d10	101	50 - 120
Perylene-d12	83	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SBS		
File ID:	E031905.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
MAH & PAH COMPOUNDS:	Spike Amount					% Recovery
Benzene	1.00	0.783		0.005	0.003	78 %
Toluene	1.00	1.07	B	0.005	0.003	107 %
Ethylbenzene	1.00	0.990		0.005	0.003	99 %
m/p-Xylenes	1.00	0.966	B	0.005	0.003	97 %
Styrene	1.00	0.915		0.010	0.005	92 %
o-Xylene	1.00	0.991		0.005	0.003	99 %
Isopropylbenzene	1.00	0.967		0.005	0.003	97 %
n-Propylbenzene	1.00	0.954		0.005	0.003	95 %
1,3,5-Trimethylbenzene	1.00	0.963		0.005	0.003	96 %
1,2,4-Trimethylbenzene	1.00	0.934		0.005	0.003	93 %
t-Butylbenzene			U	0.005	0.003	
sec-Butylbenzene	1.00	0.960		0.005	0.003	96 %
p-Isopropyltoluene	1.00	0.941		0.005	0.003	94 %
n-Butylbenzene	1.00	0.951		0.005	0.003	95 %
C1 - Benzene			BU	0.005	0.003	
C2 - Benzene			BU	0.005	0.003	
C3 - Benzene			U	0.005	0.003	
C4 - Benzene			U	0.005	0.003	
C5 - Benzene			U	0.005	0.003	
trans-Decalin			U	0.005	0.003	
cis-Decalin			U	0.005	0.003	
Naphthalene	1.00	1.05	B	0.005	0.003	105 %
2-Methylnaphthalene	1.00	0.996	B	0.005	0.003	100 %
1-Methylnaphthalene	1.00	0.971	B	0.005	0.003	97 %
C1 - Naphthalene			BU	0.005	0.003	
C2 - Naphthalene			BU	0.005	0.003	
C3- Naphthalene			U	0.005	0.003	
C4- Naphthalene			U	0.005	0.003	
Acenaphthylene	1.00	0.898		0.005	0.003	90 %
Acenaphthene	1.00	0.965		0.005	0.003	97 %
Dibenzofuran	1.00	0.975		0.005	0.003	98 %
Fluorene	1.00	0.961		0.005	0.003	96 %
C1 - Fluorene			U	0.005	0.003	
C2 - Fluorene			U	0.005	0.003	
C3 - Fluorene			U	0.005	0.003	
Phenanthrene	1.00	0.991	B	0.005	0.003	99 %
Anthracene	1.00	0.952		0.005	0.003	95 %

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SBS		
File ID:	E031905.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
C1 - Phenanthrene/Anthracene			U	0.005	0.003	
C2 - Phenanthrene/Anthracene			U	0.005	0.003	
C3 - Phenanthrene/Anthracene			U	0.005	0.003	
C4 - Phenanthrene/Anthracene			U	0.005	0.003	
Dibenzothiophene	1.00	0.977		0.005	0.003	98 %
C1 - Dibenzothiophene			U	0.005	0.003	
C2 - Dibenzothiophene			U	0.005	0.003	
C3 - Dibenzothiophene			U	0.005	0.003	
C4 - Dibenzothiophene			U	0.005	0.003	
Benzo(b)naphtho(2,1-d)thiophene			U	0.005	0.003	
Fluoranthene	1.00	0.988		0.005	0.003	99 %
Pyrene	1.00	0.995	B	0.005	0.003	100 %
C1 - Fluoranthene/Pyrene			U	0.005	0.003	
C2 - Fluoranthene/Pyrene			U	0.005	0.003	
C3 - Fluoranthene/Pyrene			U	0.005	0.003	
Benz[a]anthracene	1.00	0.905		0.005	0.003	91 %
Chrysene*	1.00	0.933		0.005	0.003	93 %
C1 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C2 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C3 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C4 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
Benzo[b]fluoranthene	1.00	0.929		0.005	0.003	93 %
Benzo[j/k]fluoranthene	1.00	0.916		0.005	0.003	92 %
Benzo(e)pyrene	1.00	0.918		0.005	0.003	92 %
Benzo[a]pyrene	1.00	0.787		0.005	0.003	79 %
Perylene			U	0.005	0.003	
Indeno[1,2,3-cd]pyrene	1.00	0.848		0.005	0.003	85 %
Dibenz[a,h]anthracene	1.00	0.746		0.005	0.003	75 %
Benzo[g,h,i]perylene	1.00	0.847		0.005	0.003	85 %
Coronene			U	0.005	0.003	
Retene			U	0.005	0.003	
Benzo(b/c)fluorenes			U	0.005	0.003	
2-Methylpyrene			U	0.005	0.003	
4-Methylpyrene			U	0.005	0.003	
1-Methylpyrene			U	0.005	0.003	
Heptadecane			BU	0.005	0.003	
Pristane			U	0.005	0.003	
Octadecane			BU	0.005	0.003	
Phytane			U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070314-SBS		
File ID:	E031905.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/14/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.005	0.003	
2,6,10-trimethyltridecane	U	0.005	0.003	
Norpristane	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	92	50 - 120
Phenanthrene-d10	95	50 - 120
Perylene-d12	79	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01DUP-D		
File ID:	E031907.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.08
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					RPD
Benzene	0.868		0.157	0.079	3.8
Toluene	5.76	B	0.157	0.079	6.5
Ethylbenzene	1.0		0.157	0.079	11.9
m/p-Xylenes	2.55	B	0.157	0.079	7.2
Styrene	0.395		0.313	0.156	13.8
o-Xylene	1.01		0.157	0.079	3.5
Isopropylbenzene	0.280		0.157	0.079	1.1
n-Propylbenzene	0.435		0.157	0.079	9.8
1,3,5-Trimethylbenzene	0.476		0.157	0.079	7
1,2,4-Trimethylbenzene	2.24		0.157	0.079	6.5
t-Butylbenzene		U	0.157	0.079	NA
sec-Butylbenzene	0.325		0.157	0.079	13.2
p-Isopropyltoluene	0.547		0.157	0.079	4.8
n-Butylbenzene	0.994		0.157	0.079	7.4
C1 - Benzene	4.56	B	0.157	0.079	8.4
C2 - Benzene	2.65	B	0.157	0.079	3.3
C3 - Benzene	3.29		0.157	0.079	6.5
C4 - Benzene	6.52		0.157	0.079	10.1
C5 - Benzene	6.74		0.157	0.079	9.2
trans-Decalin	5.05		0.157	0.079	8.3
cis-Decalin	0.317		0.157	0.079	24.6
Naphthalene	15.7	B	0.157	0.079	5.2
2-Methylnaphthalene	17.6	B	0.157	0.079	2.9
1-Methylnaphthalene	11.0	B	0.157	0.079	4.7
C1 - Naphthalene	18.3	B	0.157	0.079	3.3
C2 - Naphthalene	25.2	B	0.157	0.079	2
C3- Naphthalene	25.3		0.157	0.079	6.5
C4- Naphthalene	17.1		0.157	0.079	7.3
Acenaphthylene	8.86		0.157	0.079	21.5
Acenaphthene	14.8		0.157	0.079	12.2
Dibenzofuran	7.55		0.157	0.079	10.7
Fluorene	15.2		0.157	0.079	10.4
C1 - Fluorene	6.73		0.157	0.079	1
C2 - Fluorene	9.05		0.157	0.079	3.8
C3 - Fluorene	9.74		0.157	0.079	6.1
Phenanthrene	82.7	B	0.157	0.079	17.2
Anthracene	24.1		0.157	0.079	10.9

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01DUP-D		
File ID:	E031907.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.08
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
C1 - Phenanthrene/Anthracene	36.1		0.157	0.079	8.4
C2 - Phenanthrene/Anthracene	25.7		0.157	0.079	1.6
C3 - Phenanthrene/Anthracene	14.5		0.157	0.079	7.9
C4 - Phenanthrene/Anthracene	6.71		0.157	0.079	7.5
Dibenzothiophene	6.4		0.157	0.079	7.1
C1 - Dibenzothiophene	9.48		0.157	0.079	2.9
C2 - Dibenzothiophene	13.9		0.157	0.079	8.3
C3 - Dibenzothiophene	12.2		0.157	0.079	7.1
C4 - Dibenzothiophene	6.63		0.157	0.079	6.3
Benzo(b)naphtho(2,1-d)thiophene	6.25		0.157	0.079	11.5
Fluoranthene	92.4		0.157	0.079	18.6
Pyrene	77.3	B	0.157	0.079	18.2
C1 - Fluoranthene/Pyrene	41.4		0.157	0.079	12.6
C2 - Fluoranthene/Pyrene	16.0		0.157	0.079	22.2
C3 - Fluoranthene/Pyrene	8.01		0.157	0.079	6.3
Benz[a]anthracene	36.7		0.157	0.079	18.5
Chrysene*	40.7		0.157	0.079	17.9
C1 - Benz(a)anthracene/Chrysene	14.2		0.157	0.079	18.5
C2 - Benz(a)anthracene/Chrysene	6.49		0.157	0.079	3.3
C3 - Benz(a)anthracene/Chrysene	3.88		0.157	0.079	6.9
C4 - Benz(a)anthracene/Chrysene	2.63		0.157	0.079	4.7
Benzo[b]fluoranthene	30.9		0.157	0.079	19.5
Benzo[j/k]fluoranthene	30.0		0.157	0.079	21.8
Benzo(e)pyrene	23.4		0.157	0.079	21.8
Benzo[a]pyrene	35.3		0.157	0.079	22.4
Perylene	8.74		0.157	0.079	29.1
Indeno[1,2,3-cd]pyrene	22.5		0.157	0.079	27.3
Dibenz[a,h]anthracene	5.2		0.157	0.079	20.8
Benzo[g,h,i]perylene	19.7		0.157	0.079	27.7
Coronene	5.33		0.157	0.079	27.1
Retene	6.48		0.157	0.079	9.4
Benzo(b/c)fluorenes	9.18		0.157	0.079	7.9
2-Methylpyrene	4.79		0.157	0.079	11.7
4-Methylpyrene	4.3		0.157	0.079	14.5
1-Methylpyrene	3.59		0.157	0.079	10.6
Heptadecane	3.38	B	0.157	0.079	39.3
Pristane	56.0		0.157	0.079	13.8
Octadecane	2.37	B	0.157	0.079	3
Phytane	36.3		0.157	0.079	10.2

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID: Duplicate of CRAW-CSB009-001 (6.8'-7.4')

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070313-01DUP-D		
File ID:	E031907.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	3/7/2007	Decanted:	None
Date Received:	3/13/2007		
Date Prepared:	3/14/2007	Sample Size (g):	2.08
Date Cleanup:	NA	Percent Solid:	61%
Date Analyzed:	3/19/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	20.00
		Injection Volume (µl):	1.00
Batch QC:	BR070314-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	19.8	0.157	0.079	11
2,6,10-trimethyltridecane	29.3	0.157	0.079	14
Norpristane	25.3	0.157	0.079	10.8
Total PAH (16)	552	0.157	0.079	18.2
Total PAH (42)	927	0.157	0.079	12.4

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	92	50 - 120
Phenanthrene-d10	89	50 - 120
Perylene-d12	112	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SB		
File ID:	E032104.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
MAH & PAH COMPOUNDS:					
Benzene	0.005		0.005	0.003	
Toluene	0.054		0.005	0.003	
Ethylbenzene		U	0.005	0.003	
m/p-Xylenes		U	0.005	0.003	
Styrene		U	0.010	0.005	
o-Xylene		U	0.005	0.003	
Isopropylbenzene		U	0.005	0.003	
n-Propylbenzene		U	0.005	0.003	
1,3,5-Trimethylbenzene		U	0.005	0.003	
1,2,4-Trimethylbenzene		U	0.005	0.003	
t-Butylbenzene		U	0.005	0.003	
sec-Butylbenzene		U	0.005	0.003	
p-Isopropyltoluene		U	0.005	0.003	
n-Butylbenzene		U	0.005	0.003	
C1 - Benzene	0.044		0.005	0.003	
C2 - Benzene		U	0.005	0.003	
C3 - Benzene		U	0.005	0.003	
C4 - Benzene		U	0.005	0.003	
C5 - Benzene		U	0.005	0.003	
trans-Decalin		U	0.005	0.003	
cis-Decalin		U	0.005	0.003	
Naphthalene	0.004	J	0.005	0.003	
2-Methylnaphthalene	0.004	J	0.005	0.003	
1-Methylnaphthalene	0.003	J	0.005	0.003	
C1 - Naphthalene	0.005		0.005	0.003	
C2 - Naphthalene		U	0.005	0.003	
C3- Naphthalene		U	0.005	0.003	
C4- Naphthalene		U	0.005	0.003	
Acenaphthylene	0.005		0.005	0.003	
Acenaphthene	0.003	J	0.005	0.003	
Dibenzofuran		U	0.005	0.003	
Fluorene		U	0.005	0.003	
C1 - Fluorene		U	0.005	0.003	
C2 - Fluorene		U	0.005	0.003	
C3 - Fluorene		U	0.005	0.003	
Phenanthrene	0.006		0.005	0.003	
Anthracene		U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SB		
File ID:	E032104.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
C1 - Phenanthrene/Anthracene	U	0.005	0.003	
C2 - Phenanthrene/Anthracene	U	0.005	0.003	
C3 - Phenanthrene/Anthracene	U	0.005	0.003	
C4 - Phenanthrene/Anthracene	U	0.005	0.003	
Dibenzothiophene	U	0.005	0.003	
C1 - Dibenzothiophene	U	0.005	0.003	
C2 - Dibenzothiophene	U	0.005	0.003	
C3 - Dibenzothiophene	U	0.005	0.003	
C4 - Dibenzothiophene	U	0.005	0.003	
Benzo(b)naphtho(2,1-d)thiophene	U	0.005	0.003	
Fluoranthene	U	0.005	0.003	
Pyrene	U	0.005	0.003	
C1 - Fluoranthene/Pyrene	U	0.005	0.003	
C2 - Fluoranthene/Pyrene	U	0.005	0.003	
C3 - Fluoranthene/Pyrene	U	0.005	0.003	
Benz[a]anthracene	U	0.005	0.003	
Chrysene*	U	0.005	0.003	
C1 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C2 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C3 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
C4 - Benz(a)anthracene/Chrysene	U	0.005	0.003	
Benzo[b]fluoranthene	U	0.005	0.003	
Benzo[j/k]fluoranthene	U	0.005	0.003	
Benzo(e)pyrene	U	0.005	0.003	
Benzo[a]pyrene	U	0.005	0.003	
Perylene	U	0.005	0.003	
Indeno[1,2,3-cd]pyrene	U	0.005	0.003	
Dibenz[a,h]anthracene	0.003 J	0.005	0.003	
Benzo[g,h,i]perylene	U	0.005	0.003	
Coronene	U	0.005	0.003	
Retene	U	0.005	0.003	
Benzo(b/c)fluorenes	U	0.005	0.003	
2-Methylpyrene	U	0.005	0.003	
4-Methylpyrene	U	0.005	0.003	
1-Methylpyrene	U	0.005	0.003	
Heptadecane	0.005	0.005	0.003	
Pristane	U	0.005	0.003	
Octadecane	0.006	0.005	0.003	
Phytane	U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SB		
File ID:	E032104.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.005	0.003	
2,6,10-trimethyltridecane	U	0.005	0.003	
Norpristane	U	0.005	0.003	
Total PAH (16)	0.021	0.005	0.003	
Total PAH (42)	0.026	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	95	50 - 120
Phenanthrene-d10	91	50 - 120
Perylene-d12	77	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SBS		
File ID:	E032105.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
MAH & PAH COMPOUNDS:	Spike Amount					% Recovery
Benzene	1.00	0.832	B	0.005	0.003	83 %
Toluene	1.00	1.0	B	0.005	0.003	100 %
Ethylbenzene	1.00	0.963		0.005	0.003	96 %
m/p-Xylenes	1.00	0.944		0.005	0.003	94 %
Styrene	1.00	0.902		0.010	0.005	90 %
o-Xylene	1.00	0.966		0.005	0.003	97 %
Isopropylbenzene	1.00	0.936		0.005	0.003	94 %
n-Propylbenzene	1.00	0.926		0.005	0.003	93 %
1,3,5-Trimethylbenzene	1.00	0.904		0.005	0.003	90 %
1,2,4-Trimethylbenzene	1.00	0.878		0.005	0.003	88 %
t-Butylbenzene			U	0.005	0.003	
sec-Butylbenzene	1.00	0.903		0.005	0.003	90 %
p-Isopropyltoluene	1.00	0.906		0.005	0.003	91 %
n-Butylbenzene	1.00	0.902		0.005	0.003	90 %
C1 - Benzene			BU	0.005	0.003	
C2 - Benzene			U	0.005	0.003	
C3 - Benzene			U	0.005	0.003	
C4 - Benzene			U	0.005	0.003	
C5 - Benzene			U	0.005	0.003	
trans-Decalin			U	0.005	0.003	
cis-Decalin			U	0.005	0.003	
Naphthalene	1.00	0.955	B	0.005	0.003	96 %
2-Methylnaphthalene	1.00	0.941	B	0.005	0.003	94 %
1-Methylnaphthalene	1.00	0.948	B	0.005	0.003	95 %
C1 - Naphthalene			BU	0.005	0.003	
C2 - Naphthalene			U	0.005	0.003	
C3- Naphthalene			U	0.005	0.003	
C4- Naphthalene			U	0.005	0.003	
Acenaphthylene	1.00	0.924	B	0.005	0.003	92 %
Acenaphthene	1.00	0.957	B	0.005	0.003	96 %
Dibenzofuran	1.00	0.954		0.005	0.003	95 %
Fluorene	1.00	0.936		0.005	0.003	94 %
C1 - Fluorene			U	0.005	0.003	
C2 - Fluorene			U	0.005	0.003	
C3 - Fluorene			U	0.005	0.003	
Phenanthrene	1.00	0.934	B	0.005	0.003	93 %
Anthracene	1.00	0.967		0.005	0.003	97 %

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SBS		
File ID:	E032105.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)			RL	EDL	Comments
C1 - Phenanthrene/Anthracene			U	0.005	0.003	
C2 - Phenanthrene/Anthracene			U	0.005	0.003	
C3 - Phenanthrene/Anthracene			U	0.005	0.003	
C4 - Phenanthrene/Anthracene			U	0.005	0.003	
Dibenzothiophene	1.00	0.956		0.005	0.003	96 %
C1 - Dibenzothiophene			U	0.005	0.003	
C2 - Dibenzothiophene			U	0.005	0.003	
C3 - Dibenzothiophene			U	0.005	0.003	
C4 - Dibenzothiophene			U	0.005	0.003	
Benzo(b)naphtho(2,1-d)thiophene			U	0.005	0.003	
Fluoranthene	1.00	0.976		0.005	0.003	98 %
Pyrene	1.00	0.982		0.005	0.003	98 %
C1 - Fluoranthene/Pyrene			U	0.005	0.003	
C2 - Fluoranthene/Pyrene			U	0.005	0.003	
C3 - Fluoranthene/Pyrene			U	0.005	0.003	
Benz[a]anthracene	1.00	0.907		0.005	0.003	91 %
Chrysene*	1.00	0.944		0.005	0.003	94 %
C1 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C2 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C3 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
C4 - Benz(a)anthracene/Chrysene			U	0.005	0.003	
Benzo[b]fluoranthene	1.00	0.926		0.005	0.003	93 %
Benzo[j/k]fluoranthene	1.00	0.960		0.005	0.003	96 %
Benzo(e)pyrene	1.00	0.918		0.005	0.003	92 %
Benzo[a]pyrene	1.00	0.826		0.005	0.003	83 %
Perylene			U	0.005	0.003	
Indeno[1,2,3-cd]pyrene	1.00	0.845		0.005	0.003	85 %
Dibenz[a,h]anthracene	1.00	0.808	B	0.005	0.003	81 %
Benzo[g,h,i]perylene	1.00	0.826		0.005	0.003	83 %
Coronene			U	0.005	0.003	
Retene			U	0.005	0.003	
Benzo(b/c)fluorenes			U	0.005	0.003	
2-Methylpyrene			U	0.005	0.003	
4-Methylpyrene			U	0.005	0.003	
1-Methylpyrene			U	0.005	0.003	
Heptadecane			BU	0.005	0.003	
Pristane			U	0.005	0.003	
Octadecane			BU	0.005	0.003	
Phytane			U	0.005	0.003	

Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

Field ID:

Client:	Burns & McDonnell	Preparation Method:	EPA 3570
Project:	Crawford Station	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	BR070315-SBS		
File ID:	E032105.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	3/15/2007	Sample Size (g):	2.00
Date Cleanup:	NA	Percent Solid:	100%
Date Analyzed:	3/21/2007	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1.00
Operator:	JAR	Analysis DF:	1.00
		Injection Volume (µl):	1.00
Batch QC:	BR070315-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
2,6,10-trimethyldodecane	U	0.005	0.003	
2,6,10-trimethyltridecane	U	0.005	0.003	
Norpristane	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	94	50 - 120
Phenanthrene-d10	95	50 - 120
Perylene-d12	80	50 - 120

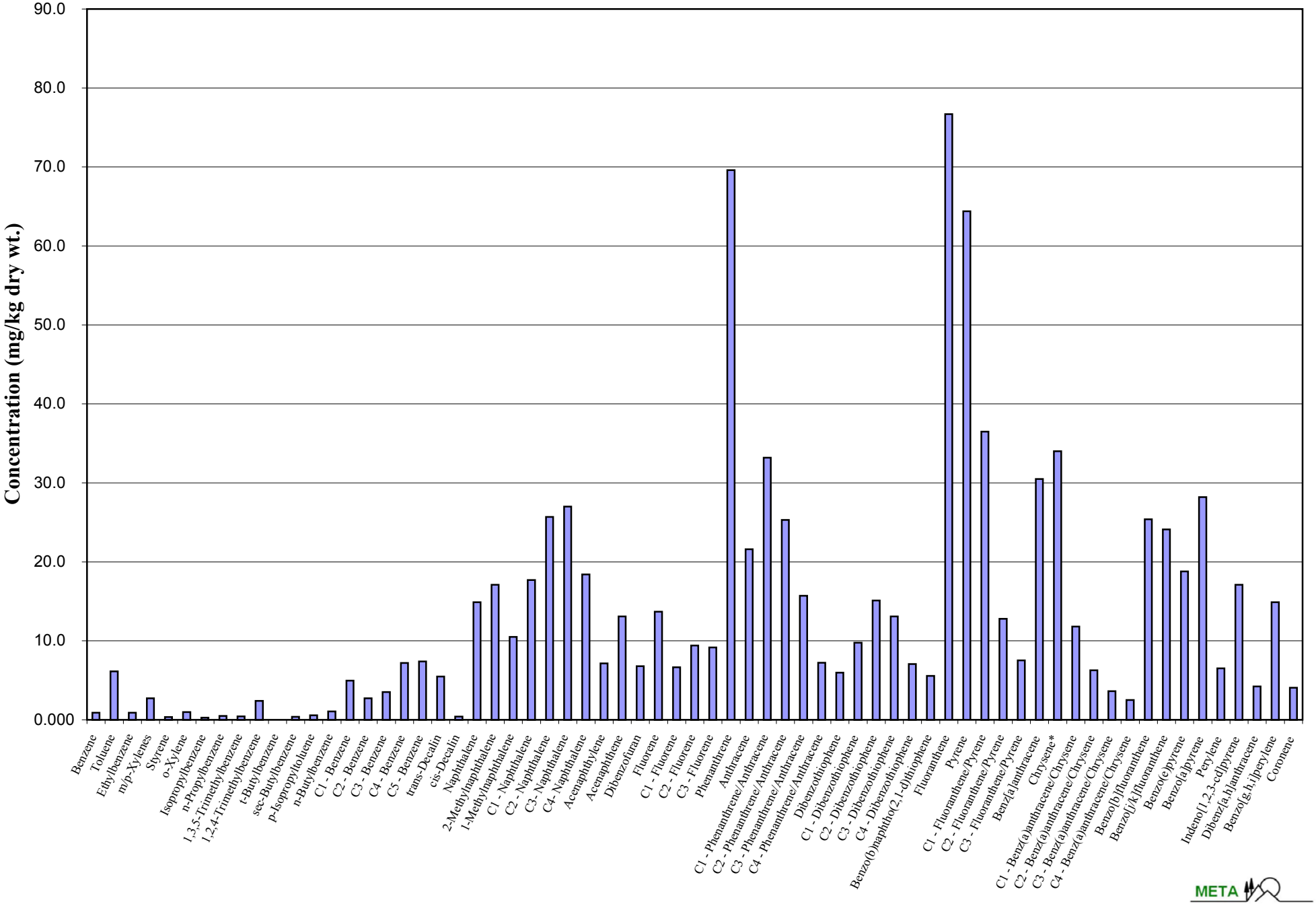
NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

Appendix D

Extended MAH/PAH Profiles – Histograms

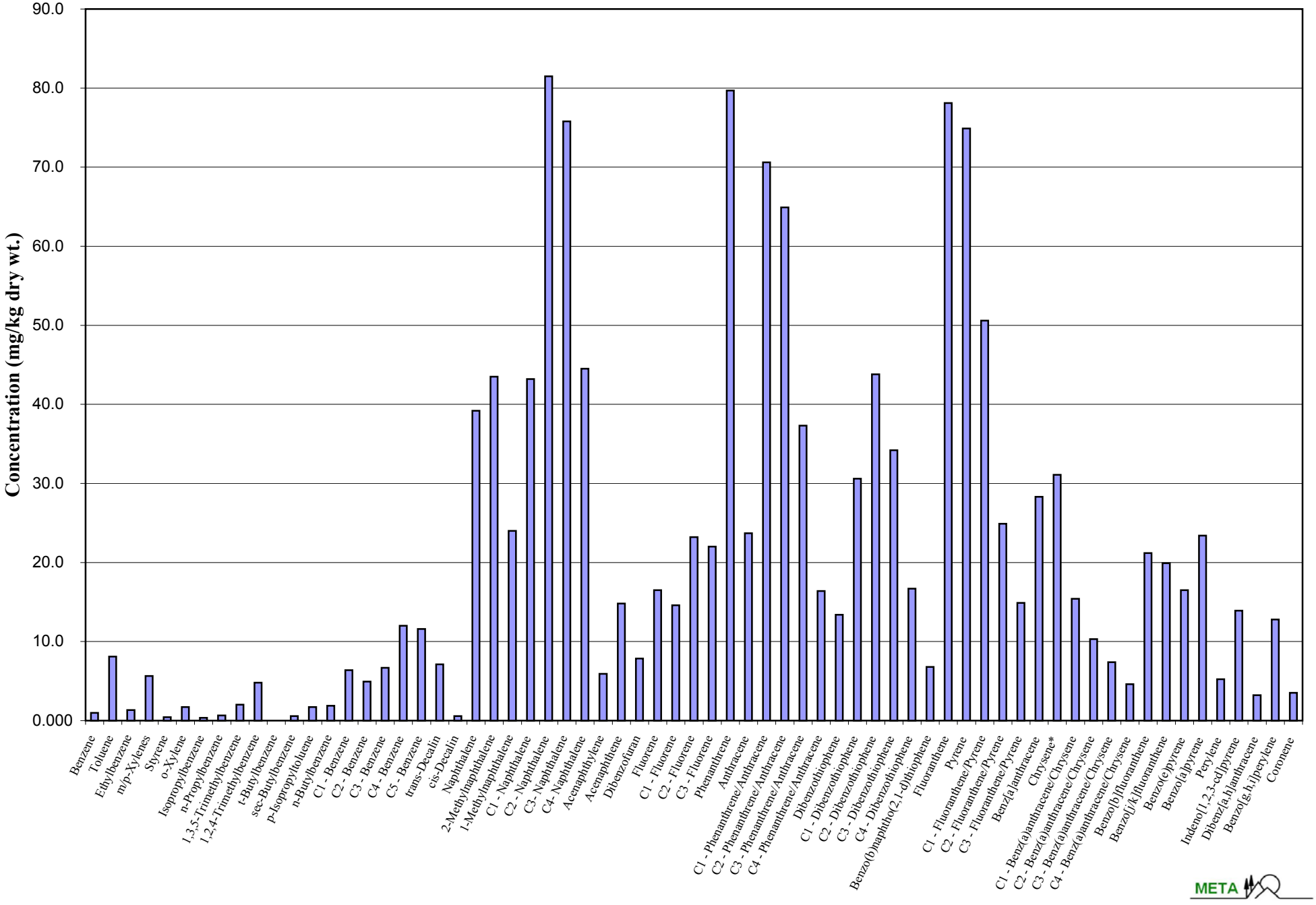
CRAW-CSB009-001 (6.8'-7.4')

BR070313-01-D



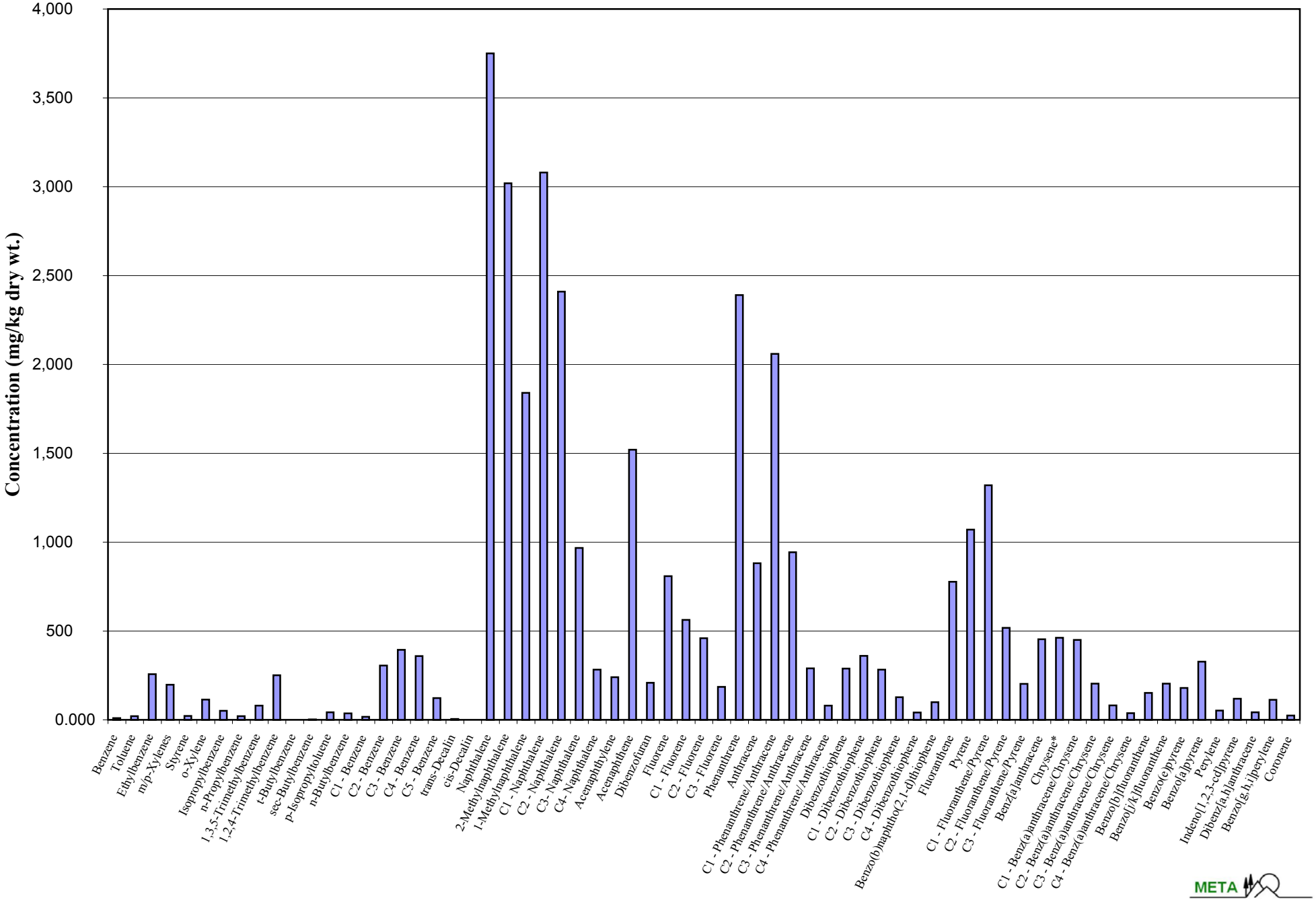
CRAW-CSB014-001 (5.3'-6.0')

BR070313-02-D



CRAW-CSB014-002 (13.1'-14.0')

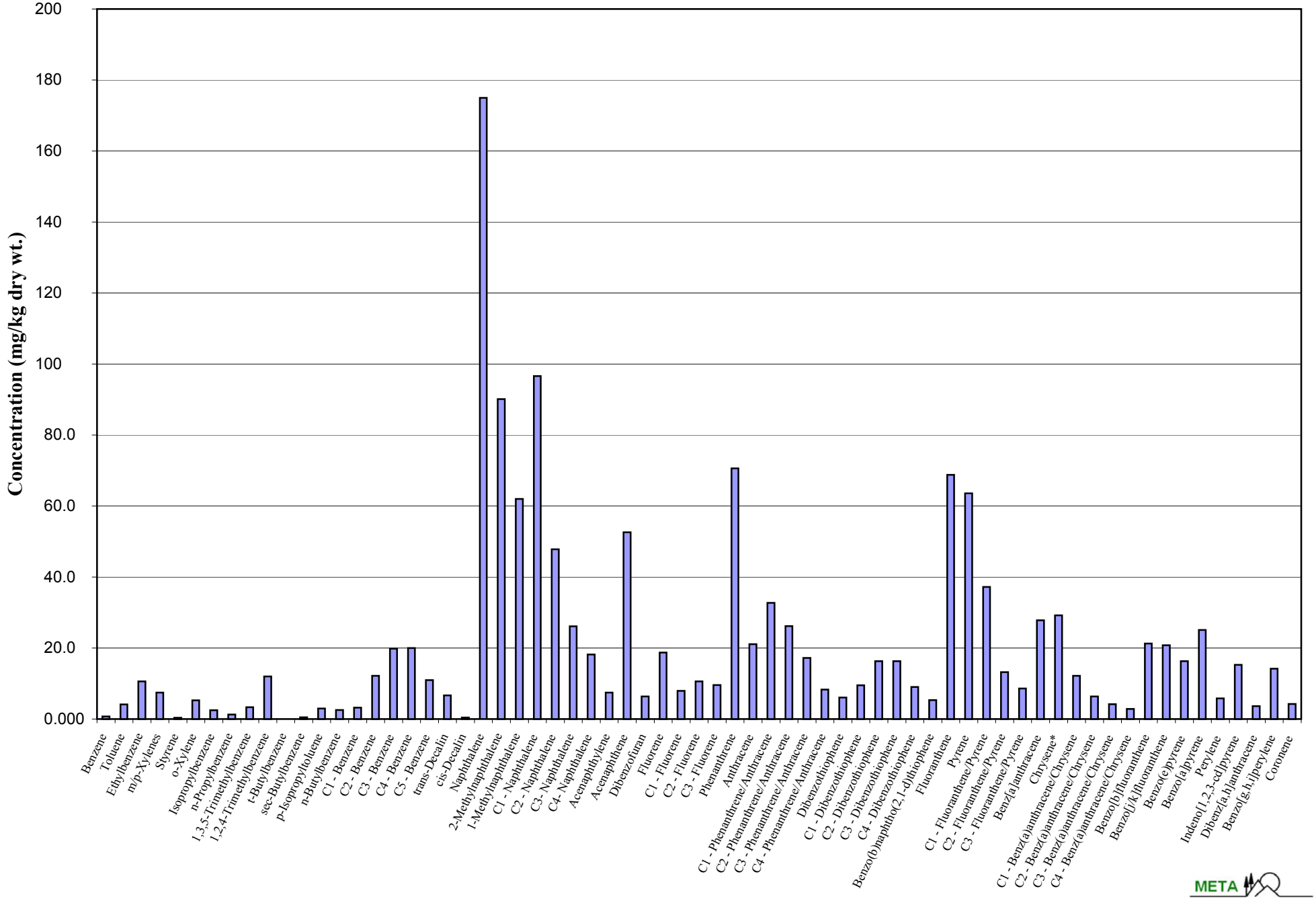
BR070313-03-D3



META

CRAW-CSB022-001 (9.5'-10.0')

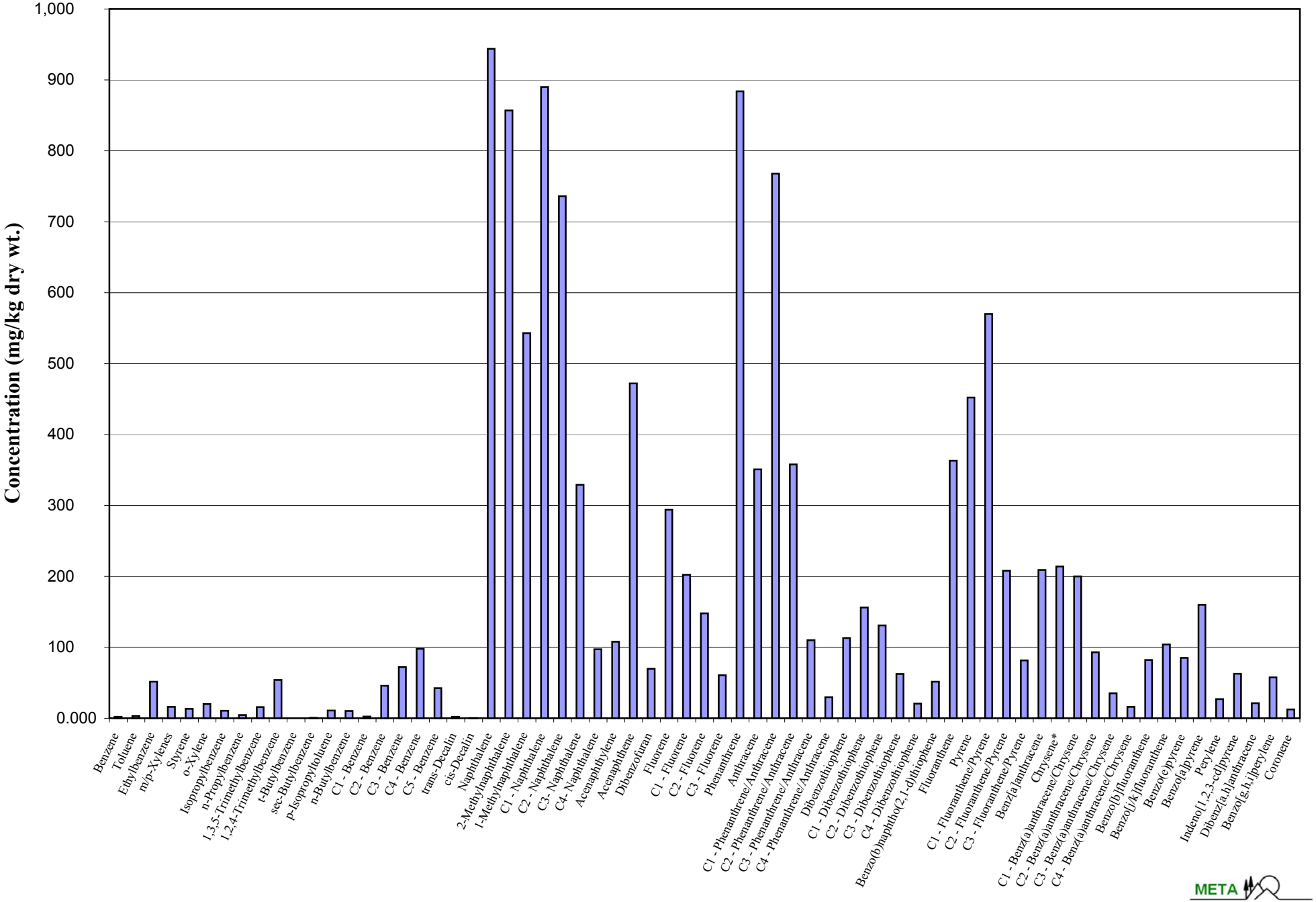
BR070313-04-D



META

CRAW-CSB022-002 (10.5'-11.6')

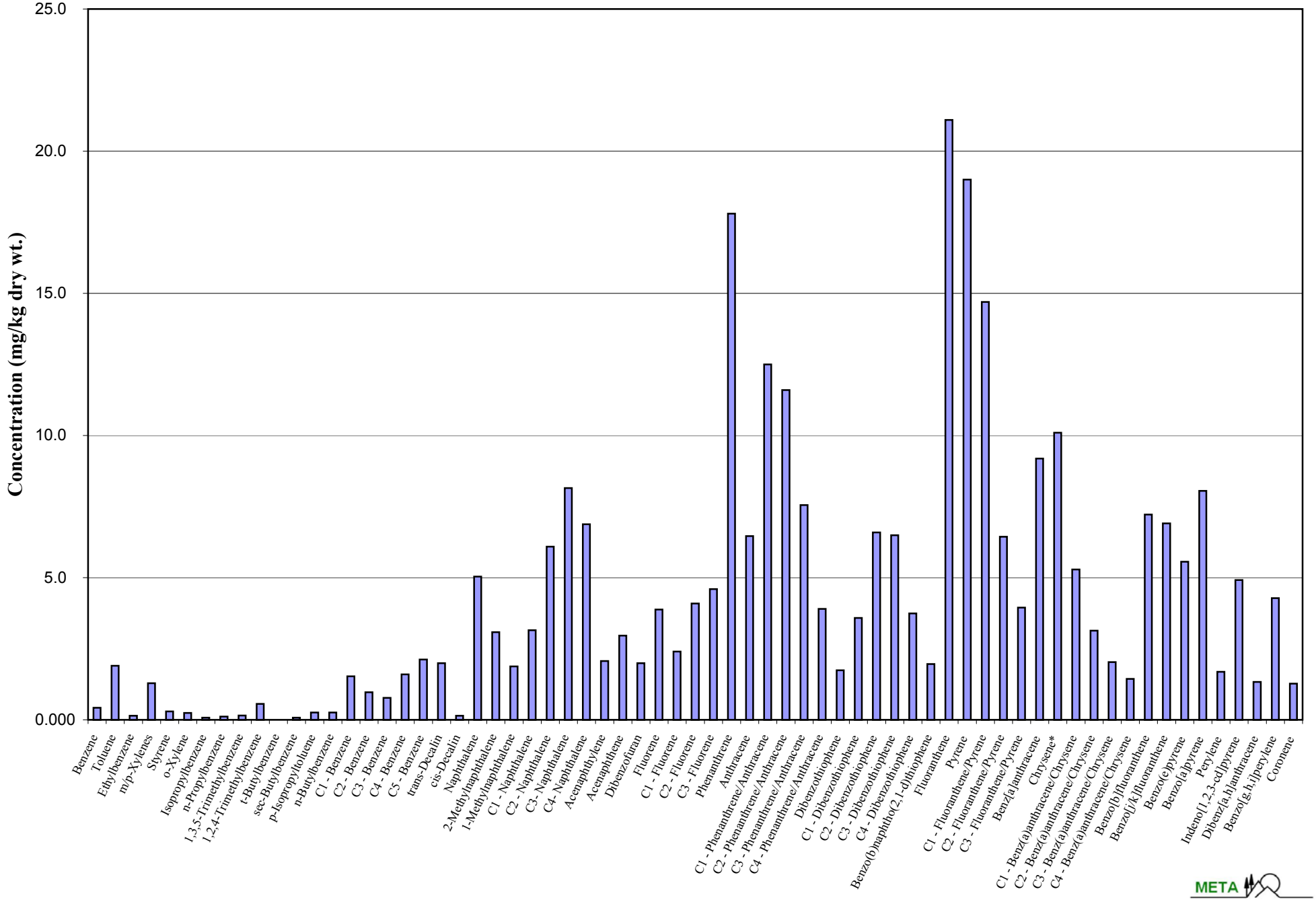
BR070313-05-D3



META

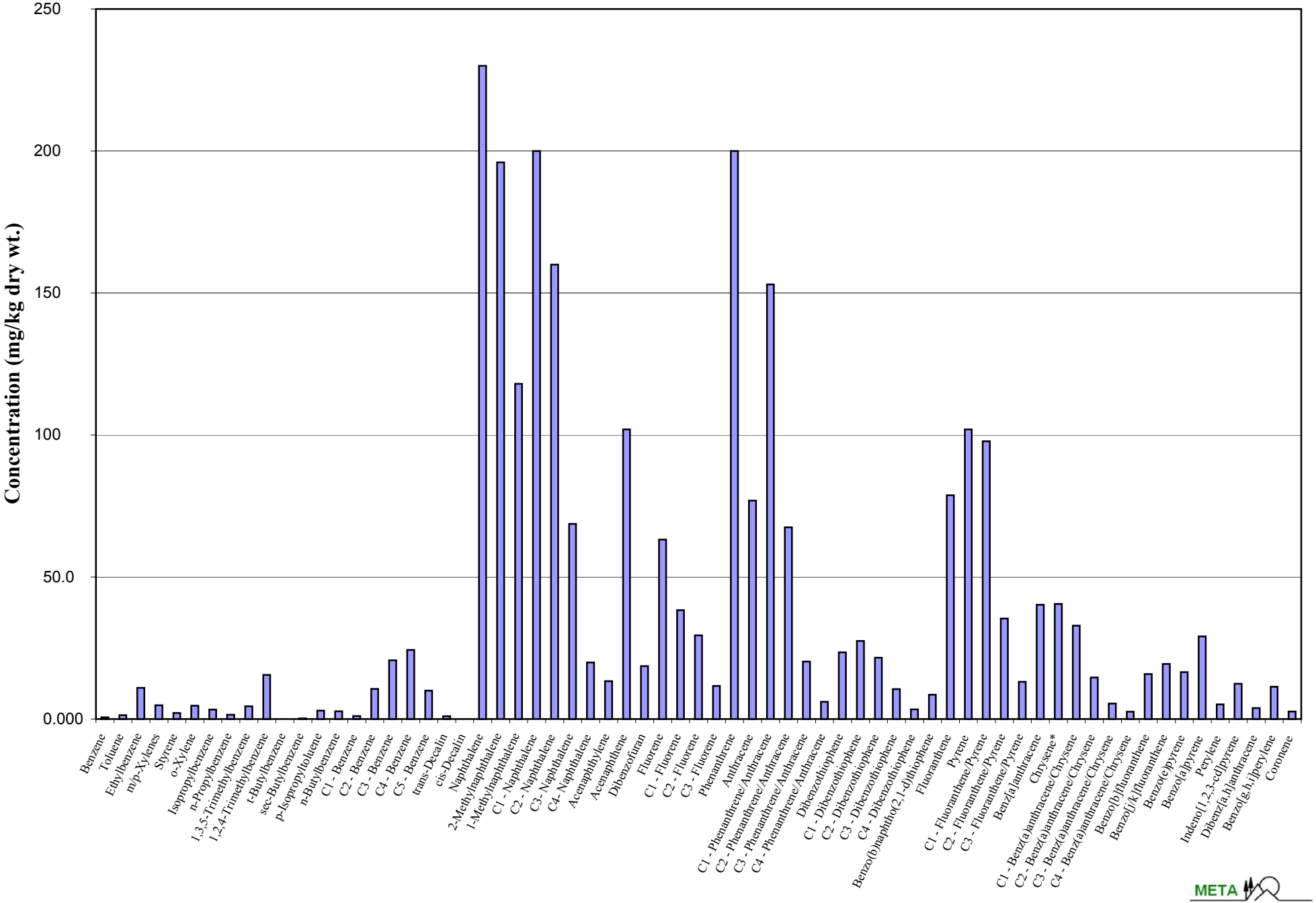
CRAW-CSB039-001 (5.0'-6.0')

BR070313-06



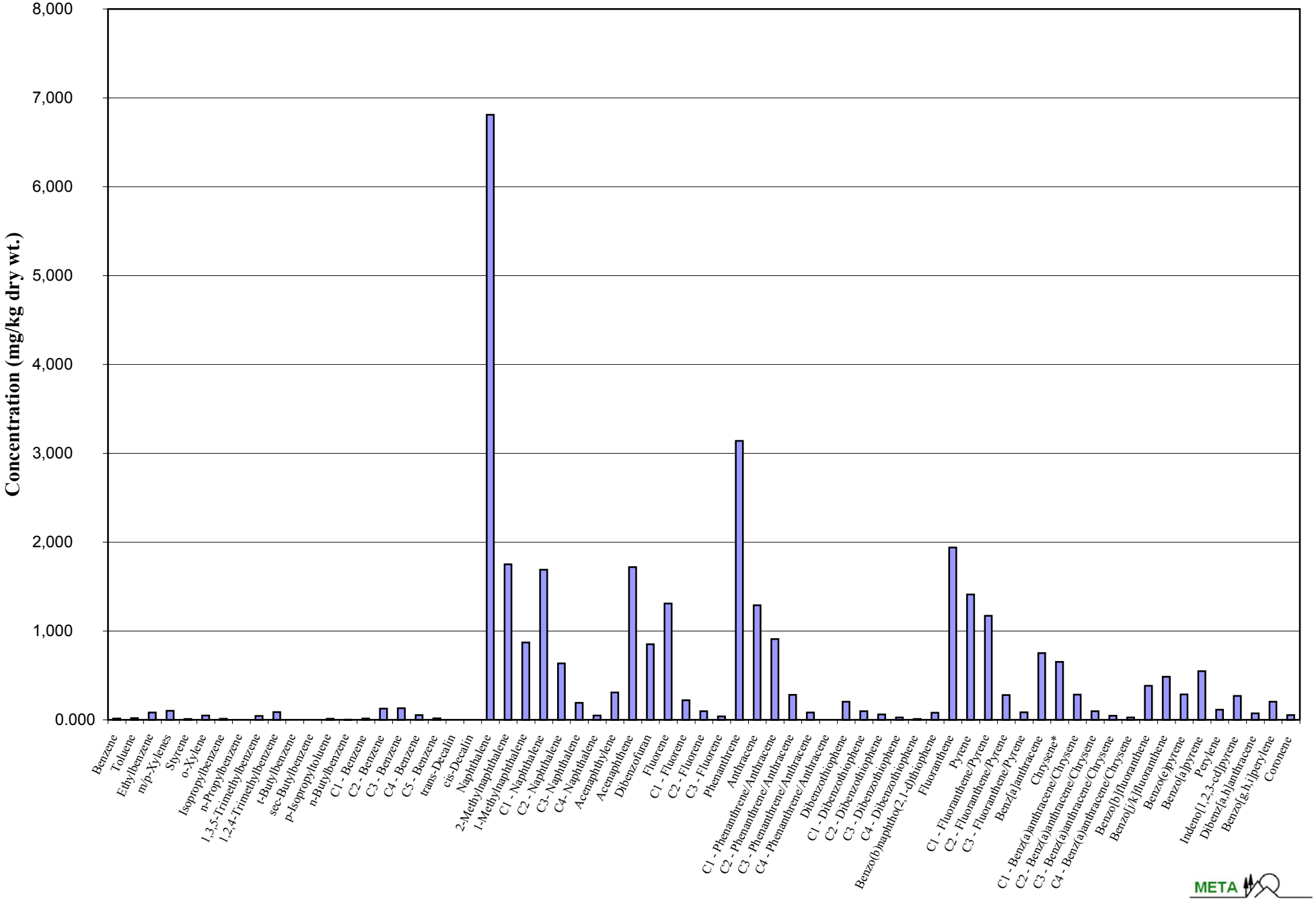
CRAW-CSB039-002 (8.3'-8.8')

BR070313-07-D



CRAW-CSB042-001 (2.2'-2.9')

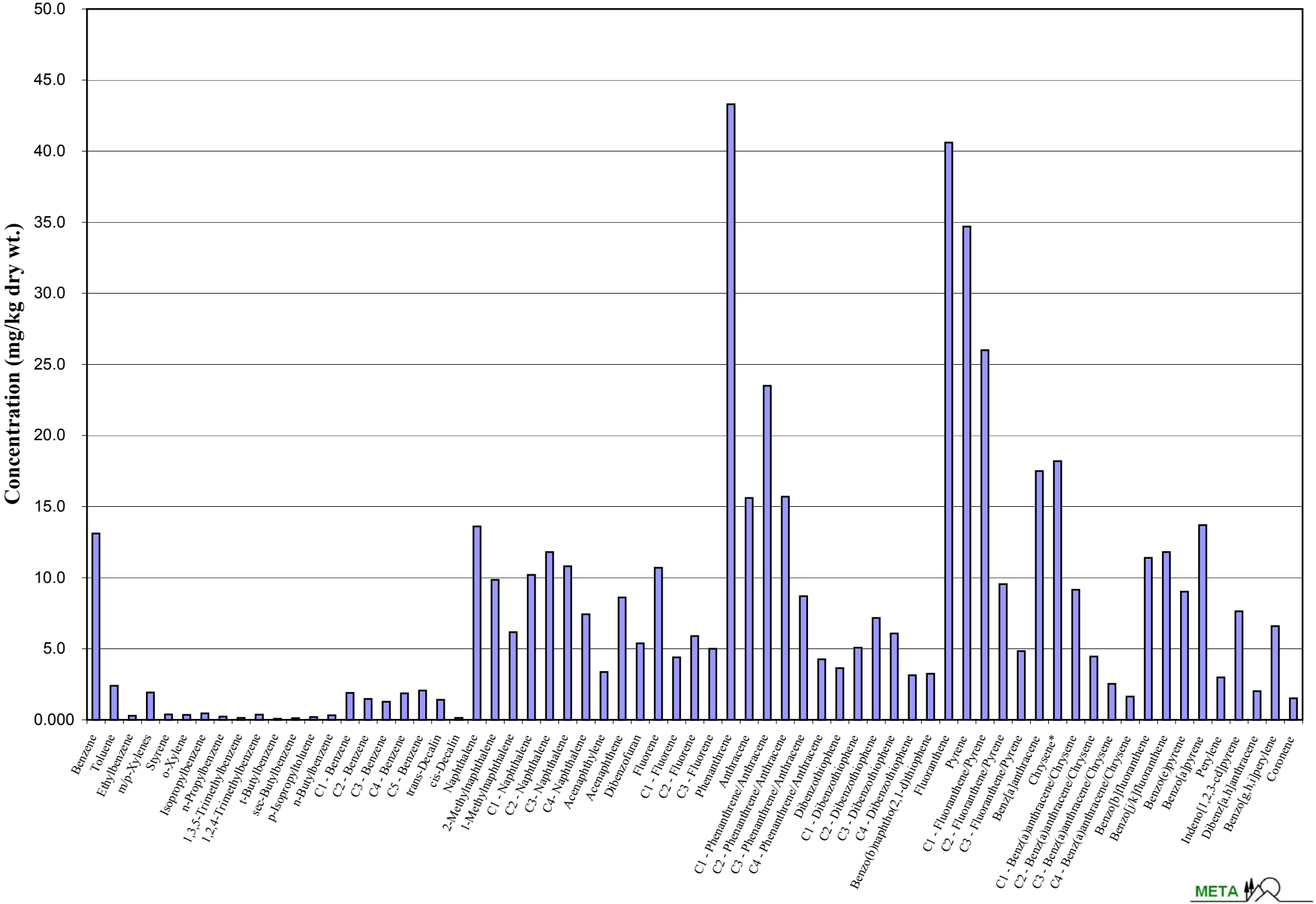
BR070313-08-D2



META

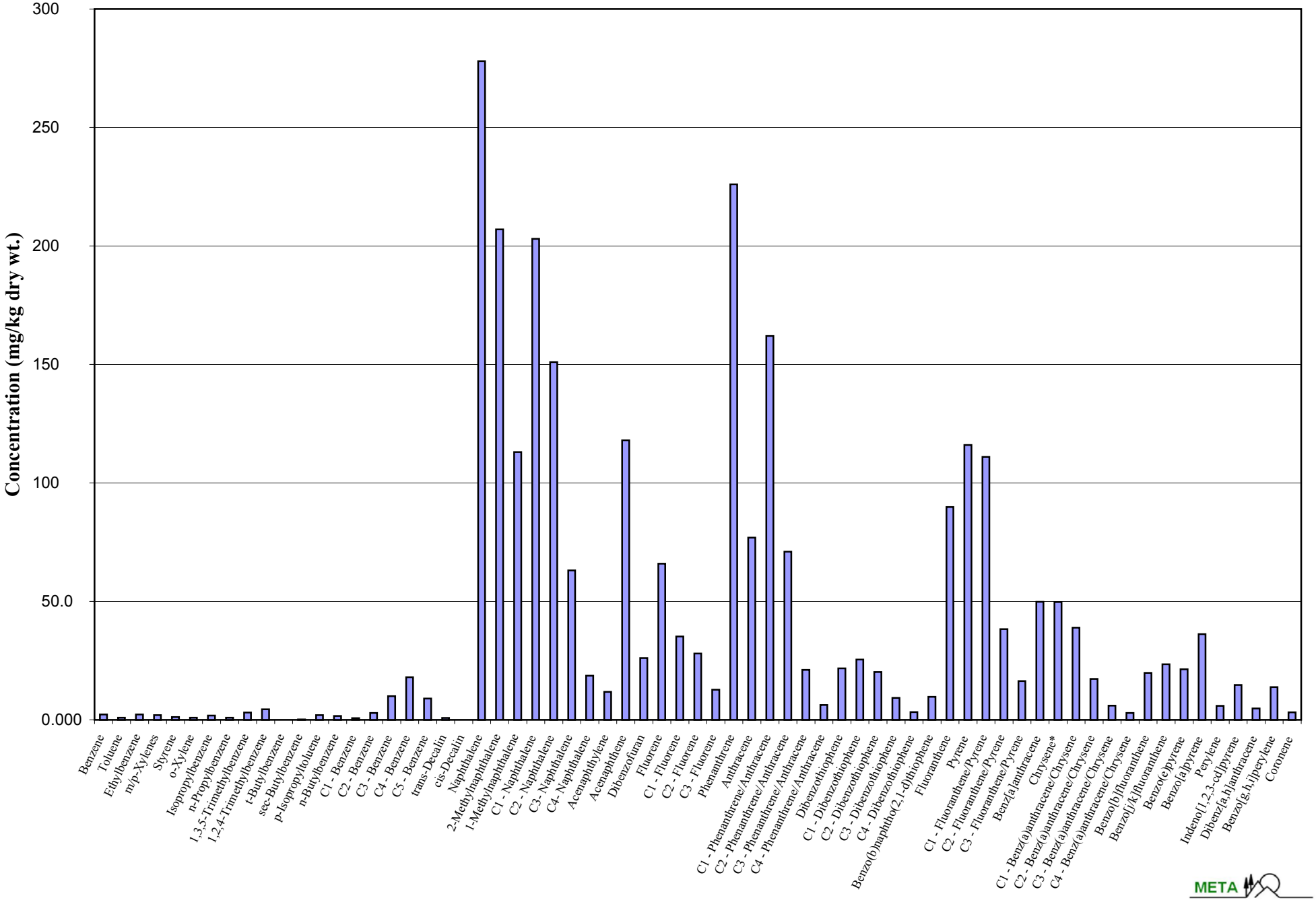
CRAW-CSB042-002 (4.8'-5.5')

BR070313-09-D



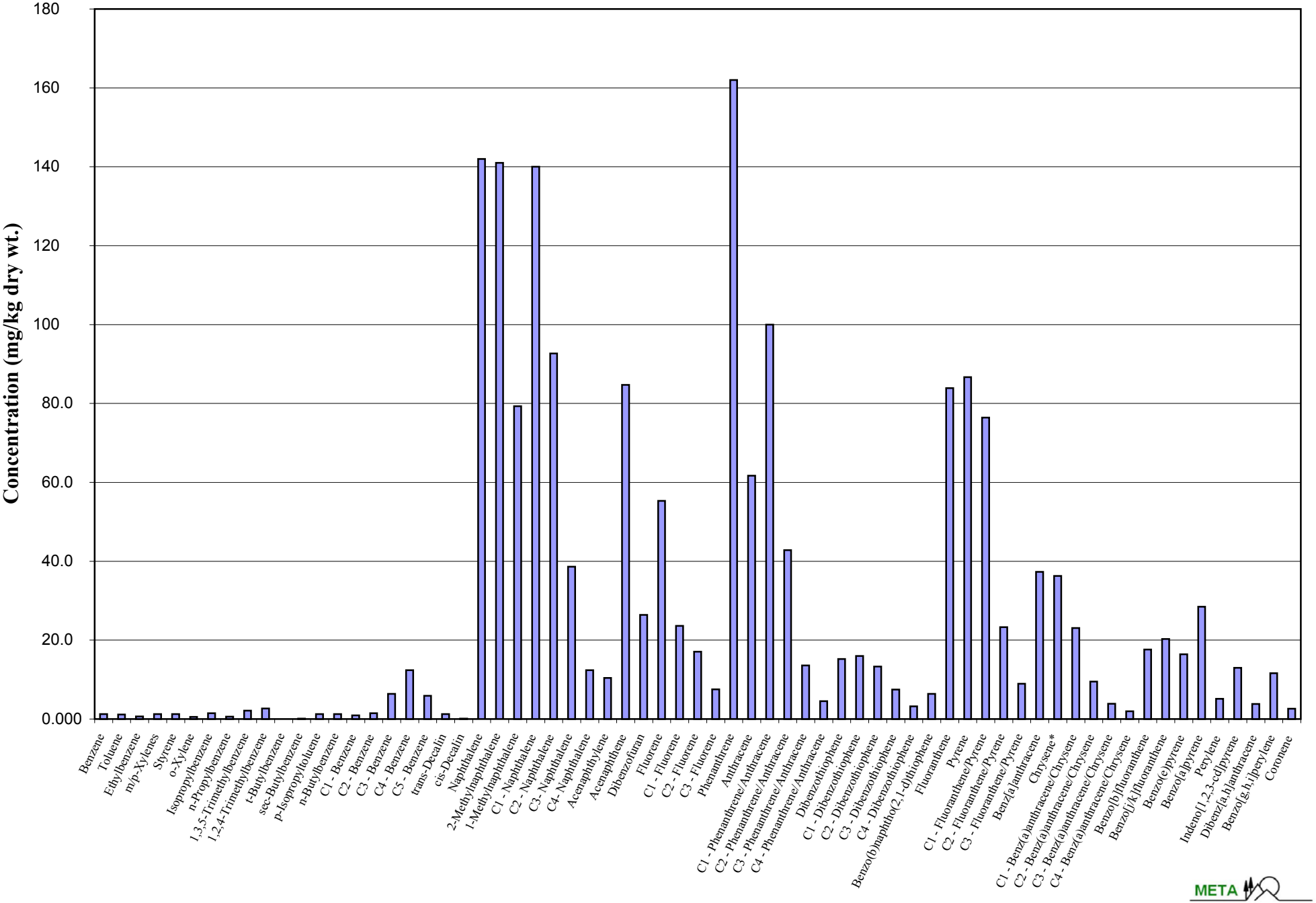
CRAW-CSB044-001 (2.5'-3.0')

BR070313-10-D



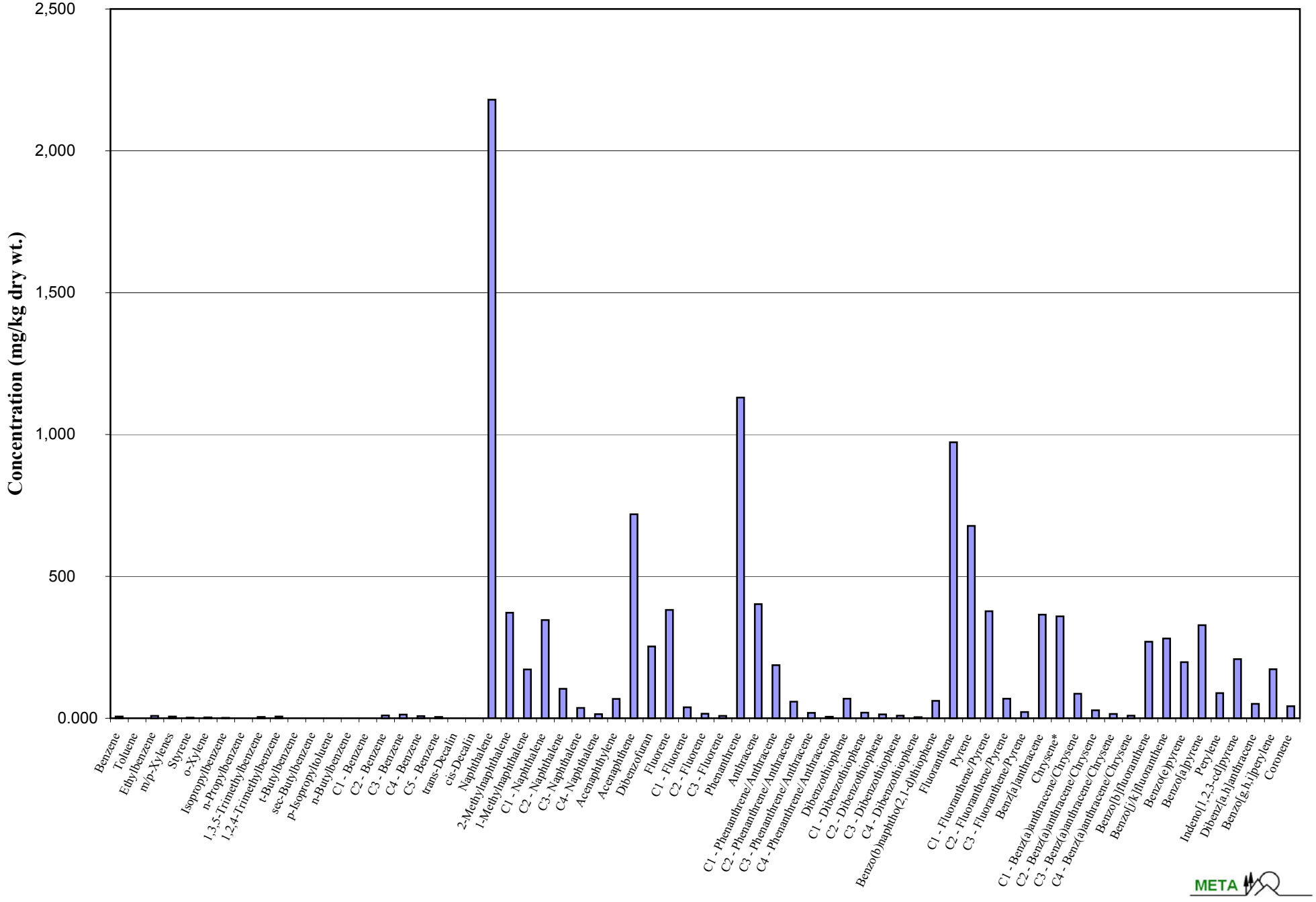
CRAW-CSB044-002 (4.3'-4.8')

BR070313-11-D



CRAW-CSB043-001 (0'-0.4')

BR070313-12-D2



META

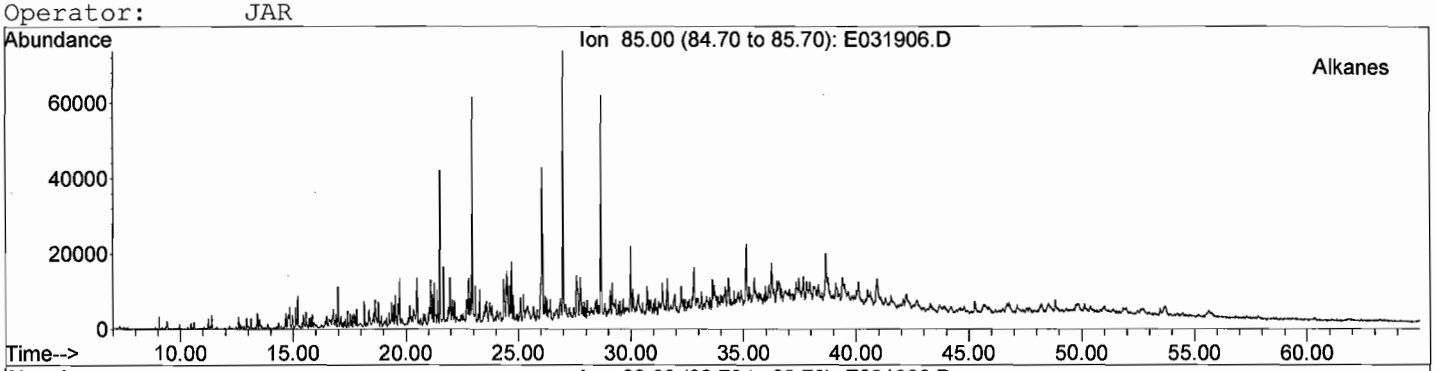
Appendix E

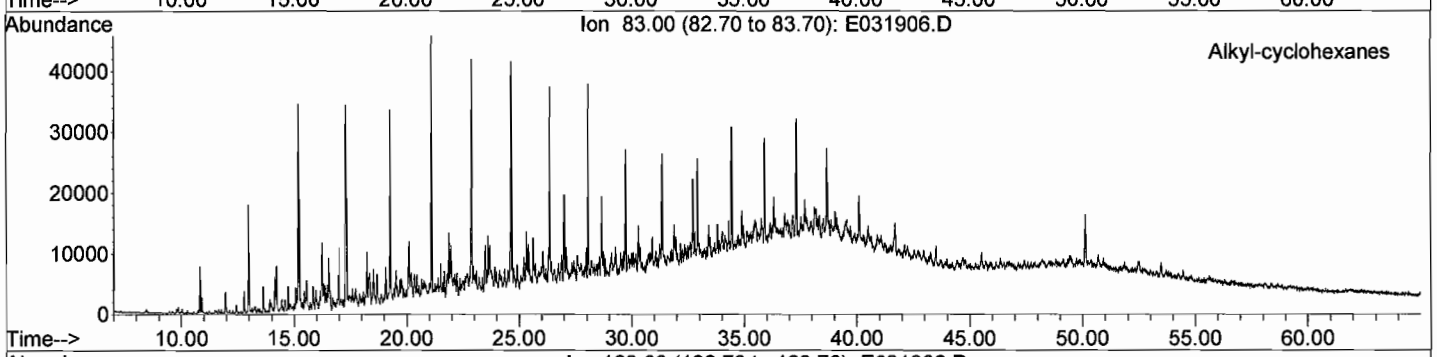
Extracted Ion Current Profiles (EICPs)

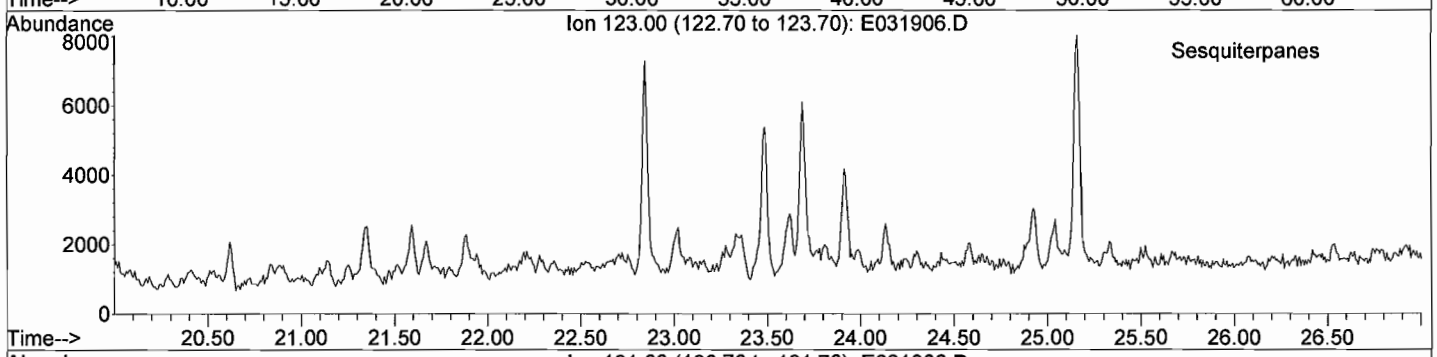
META Environmental, Inc.

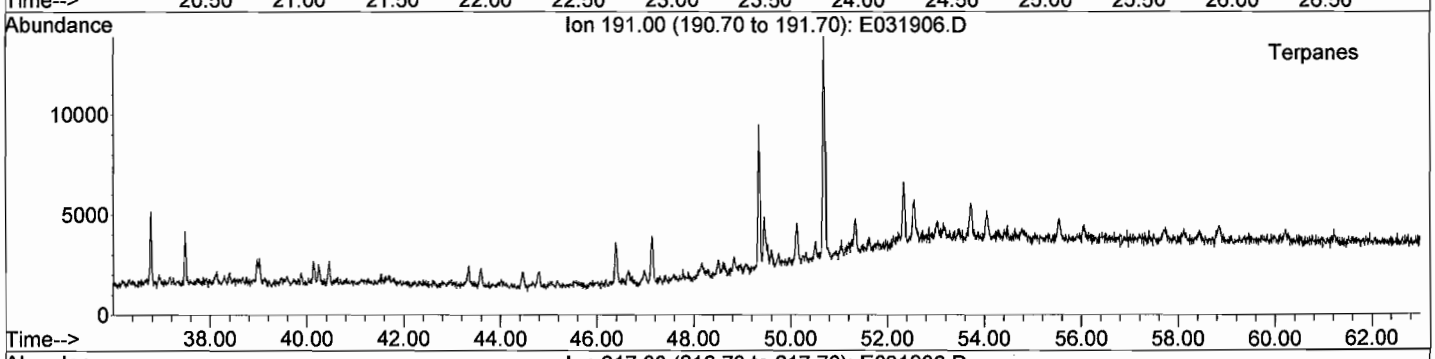
GC/MS EXTRACTED ION CHROMATOGRAM

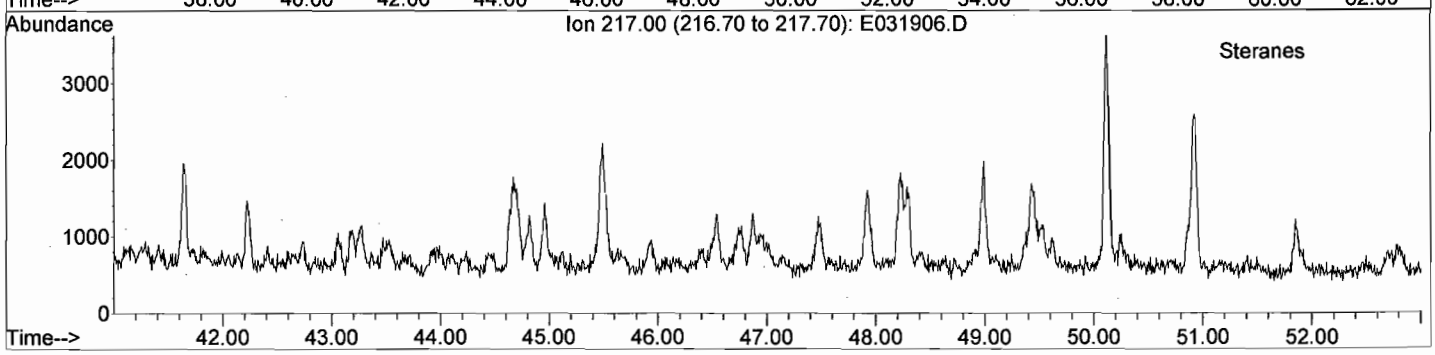
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR







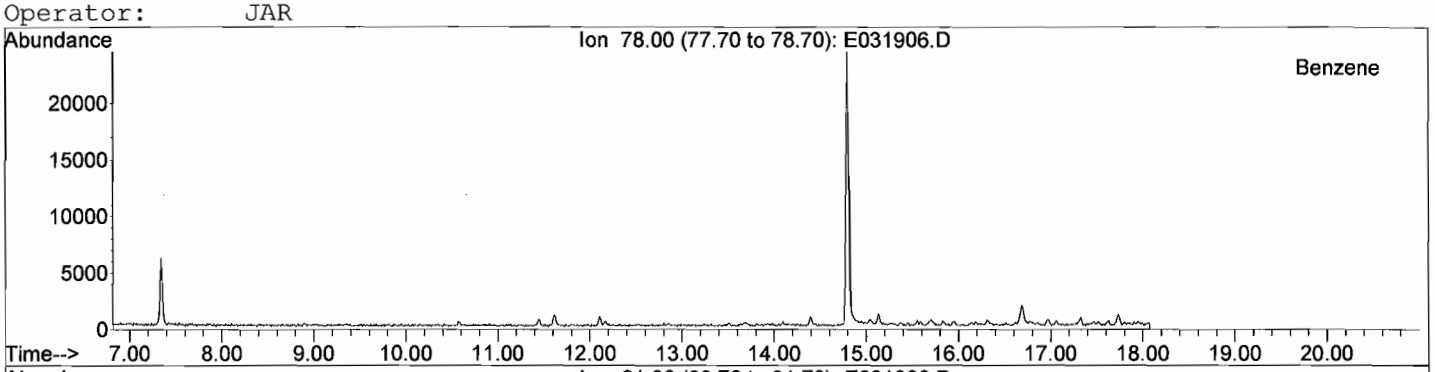


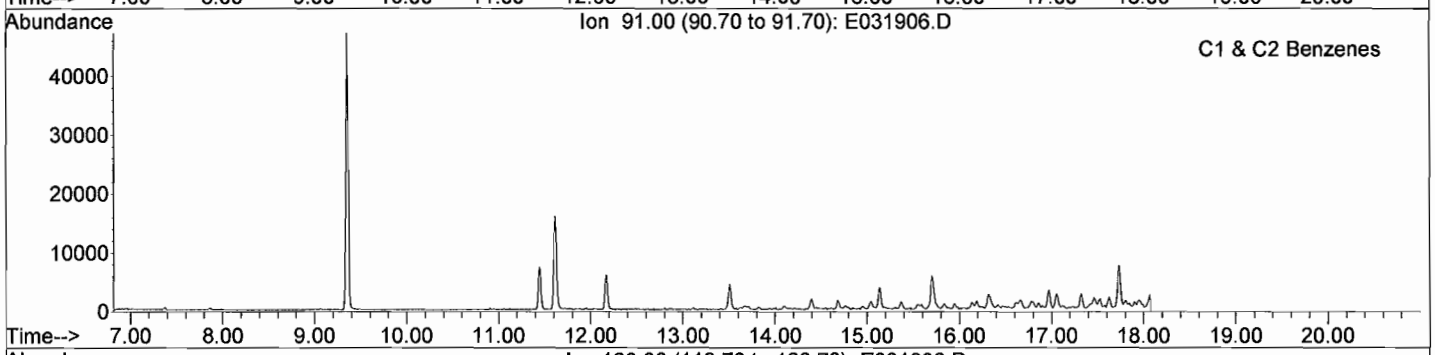


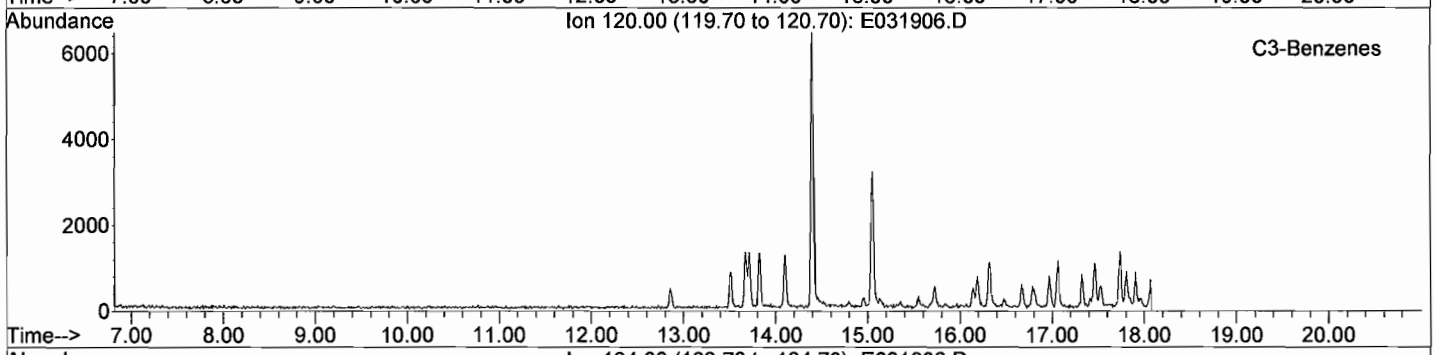
META Environmental, Inc.

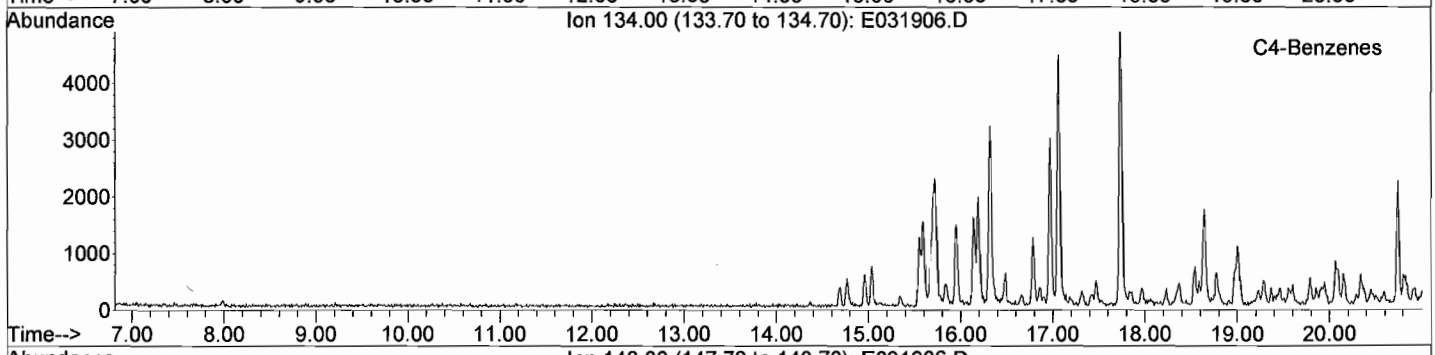
GC/MS EXTRACTED ION CHROMATOGRAM

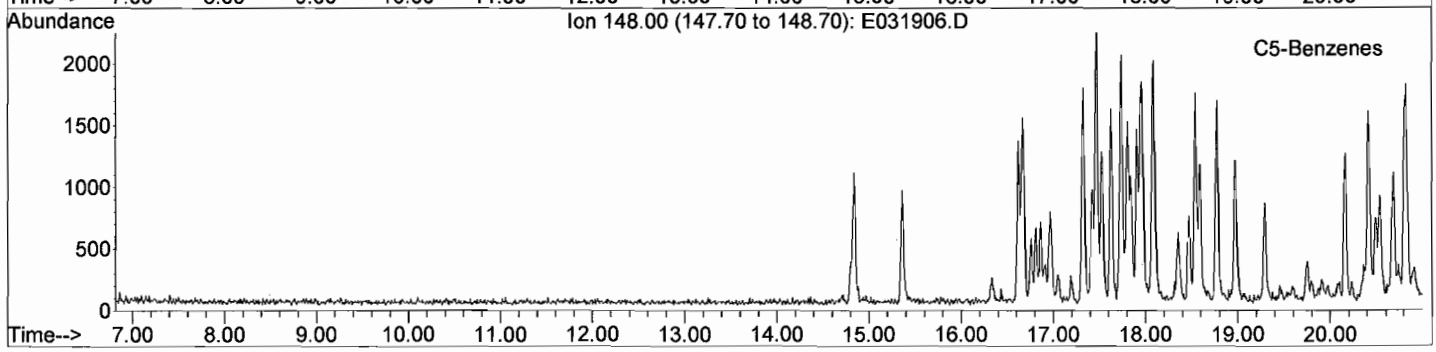
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR







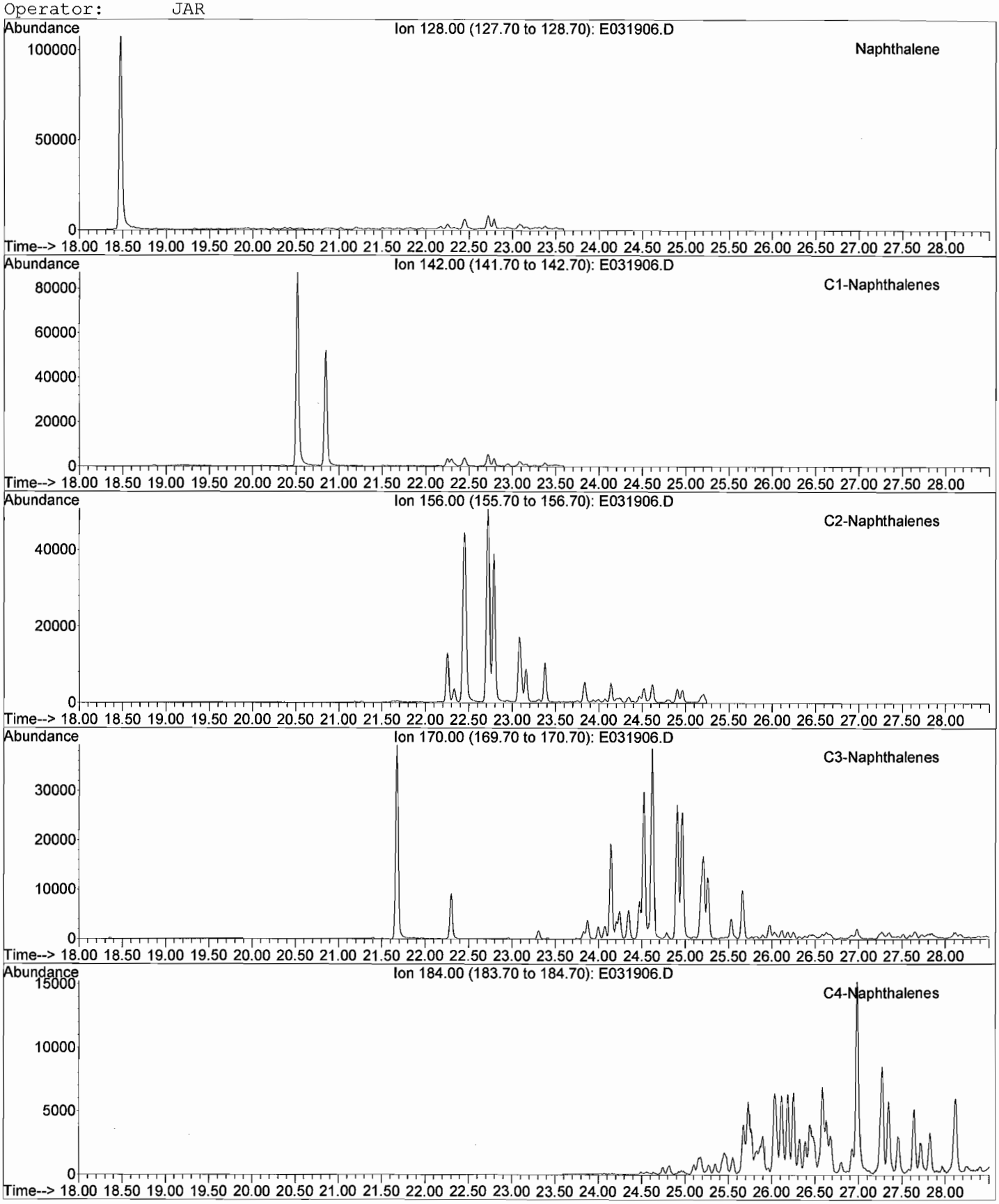




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

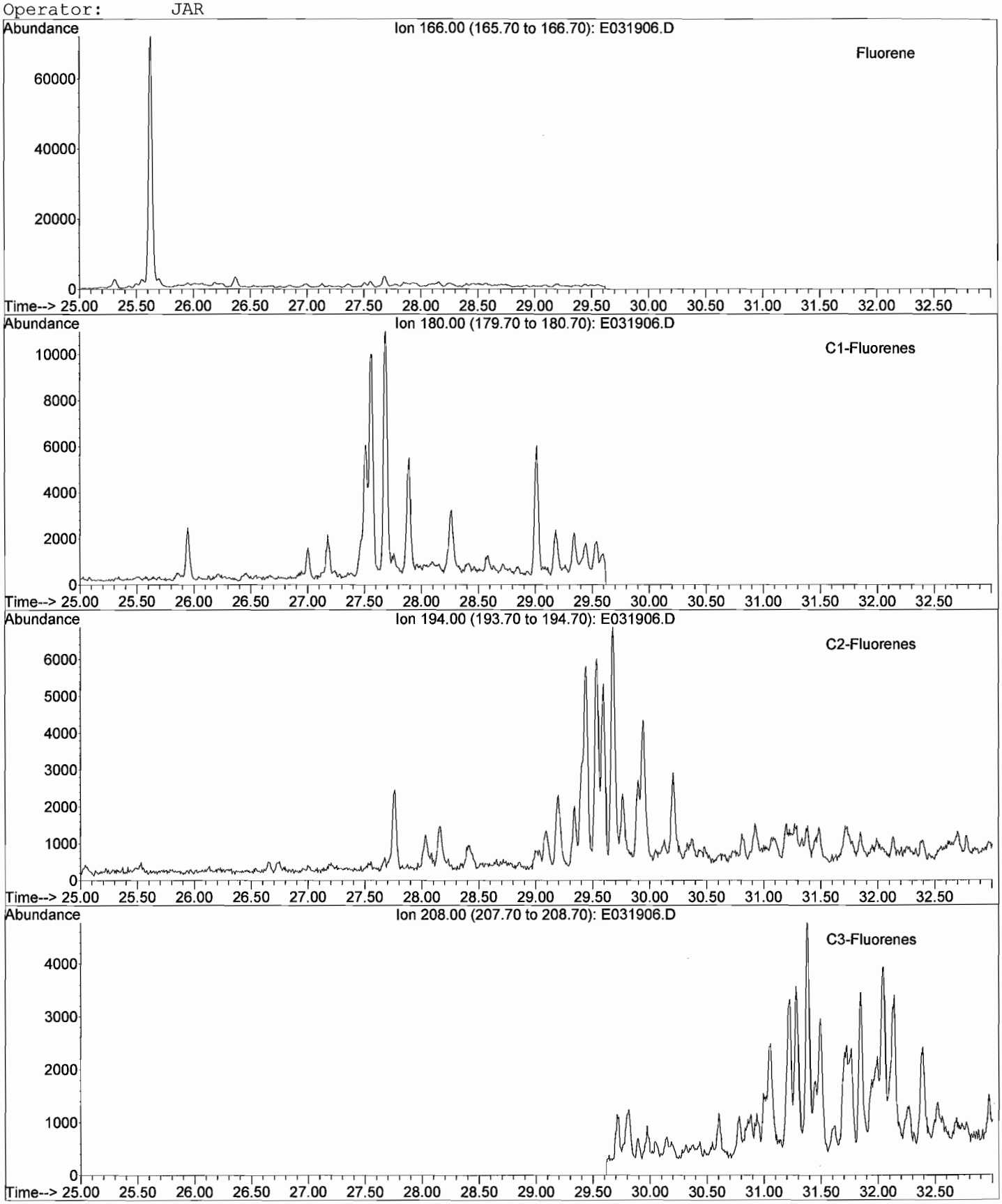
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

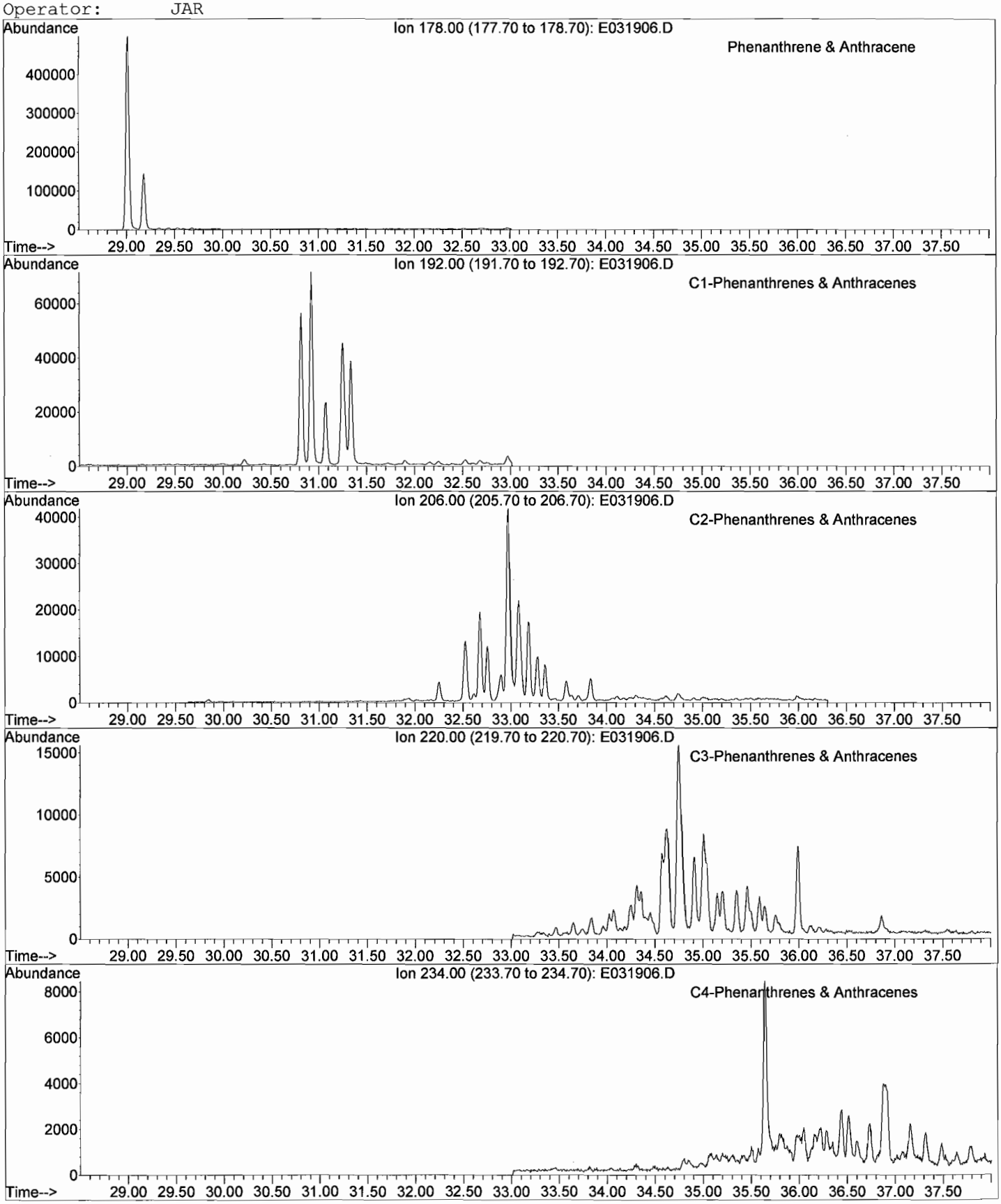
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

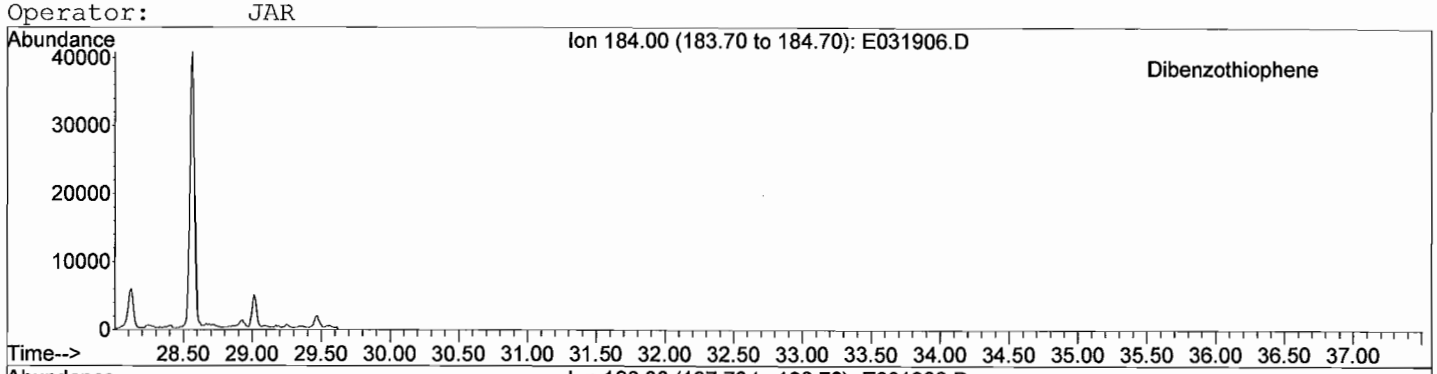
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR

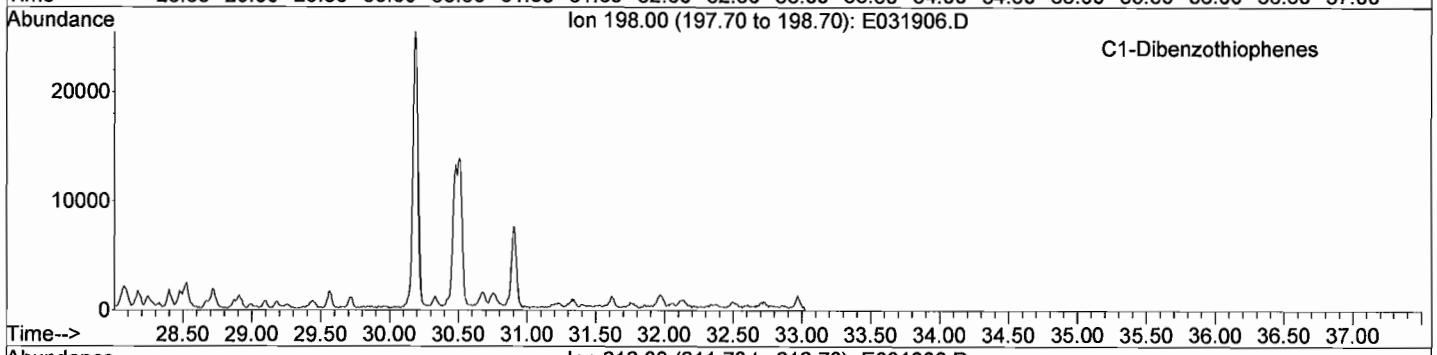


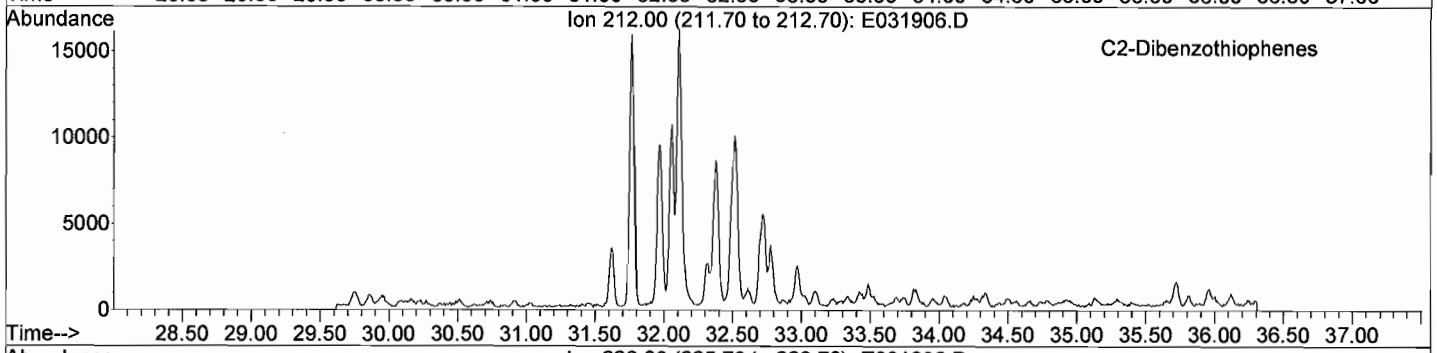
META Environmental, Inc.

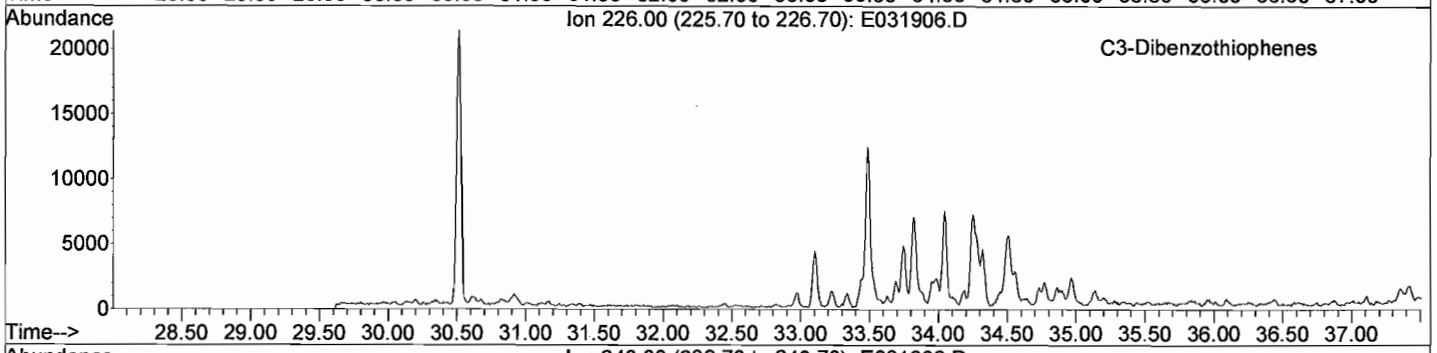
GC/MS EXTRACTED ION CHROMATOGRAM

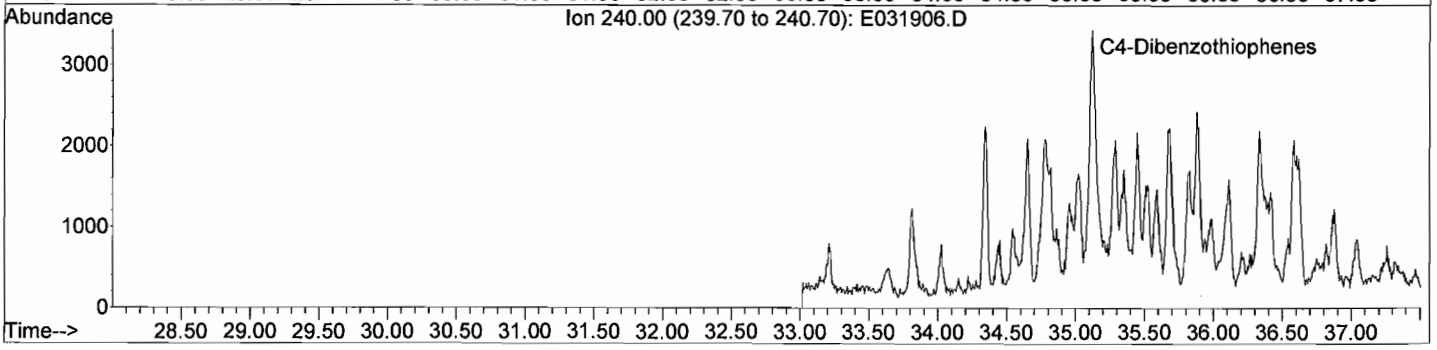
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR







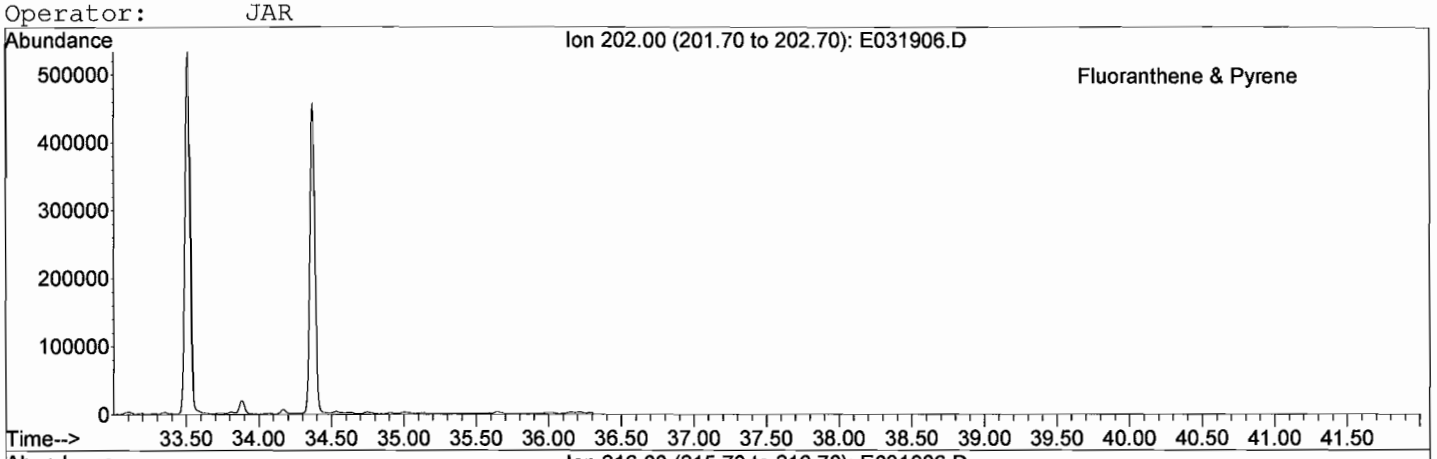


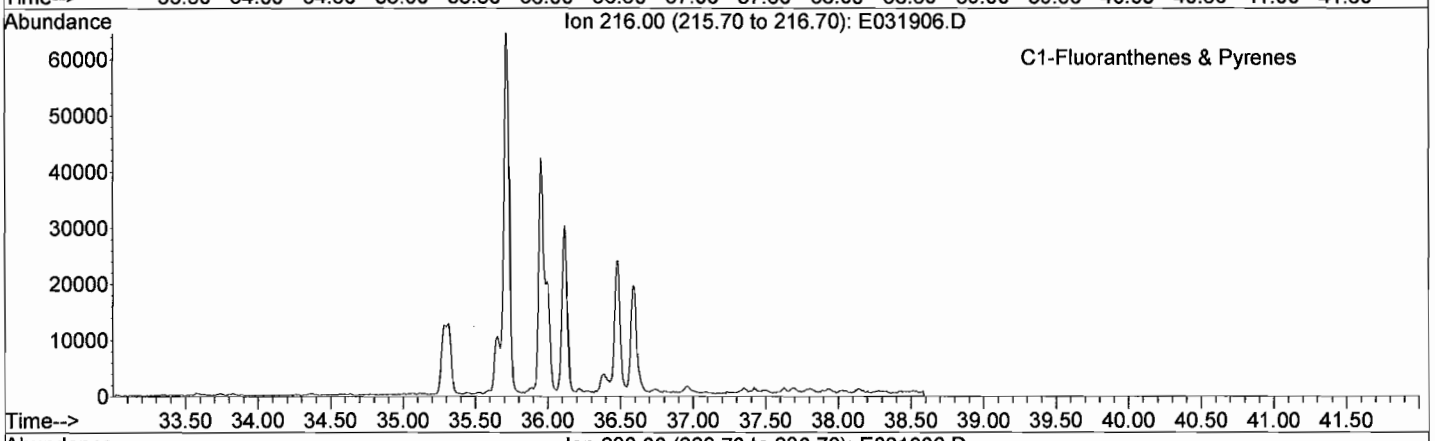


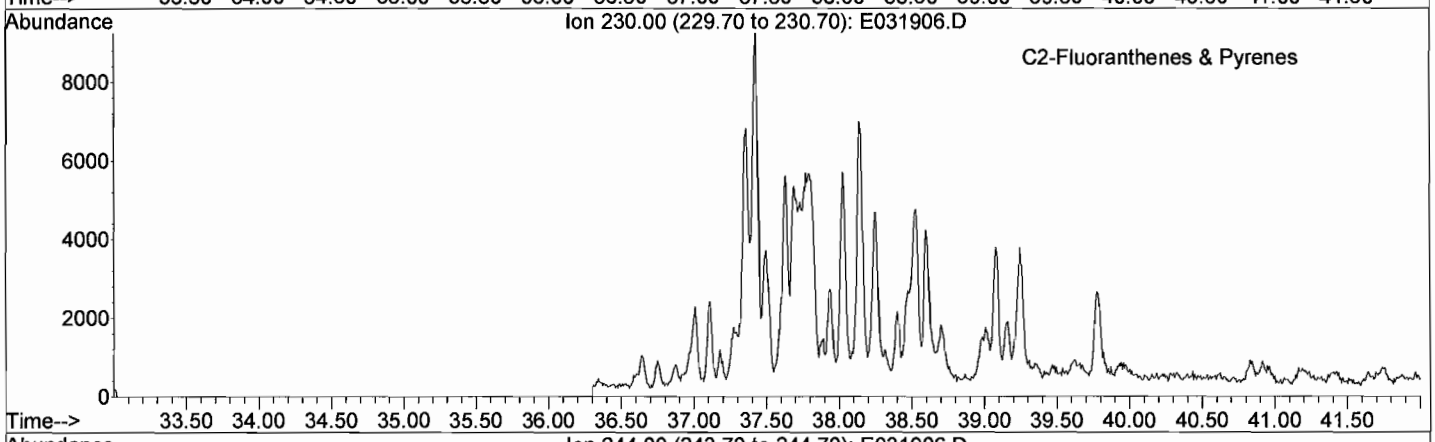
META Environmental, Inc.

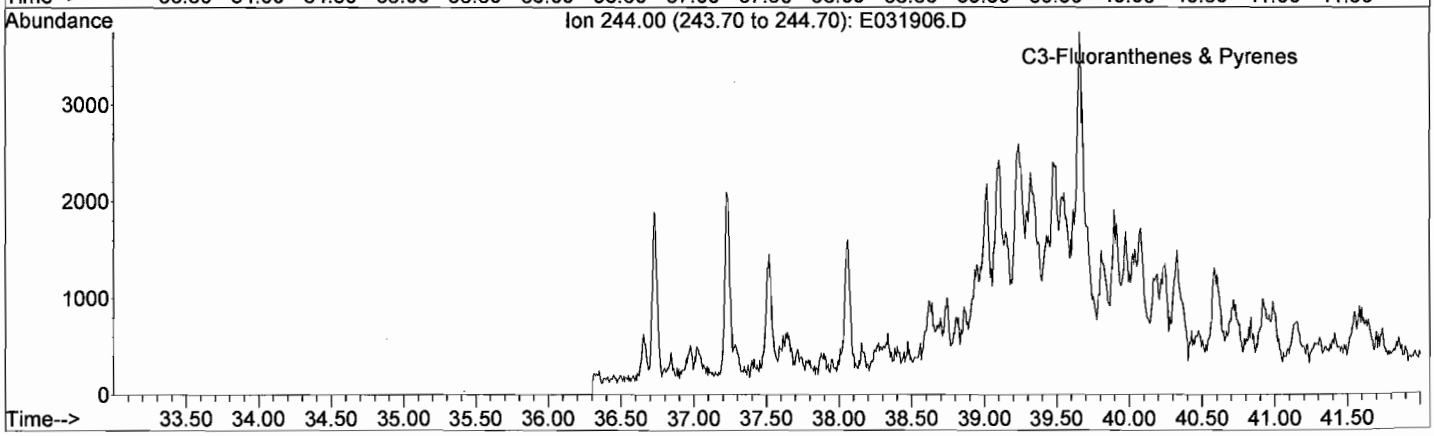
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR





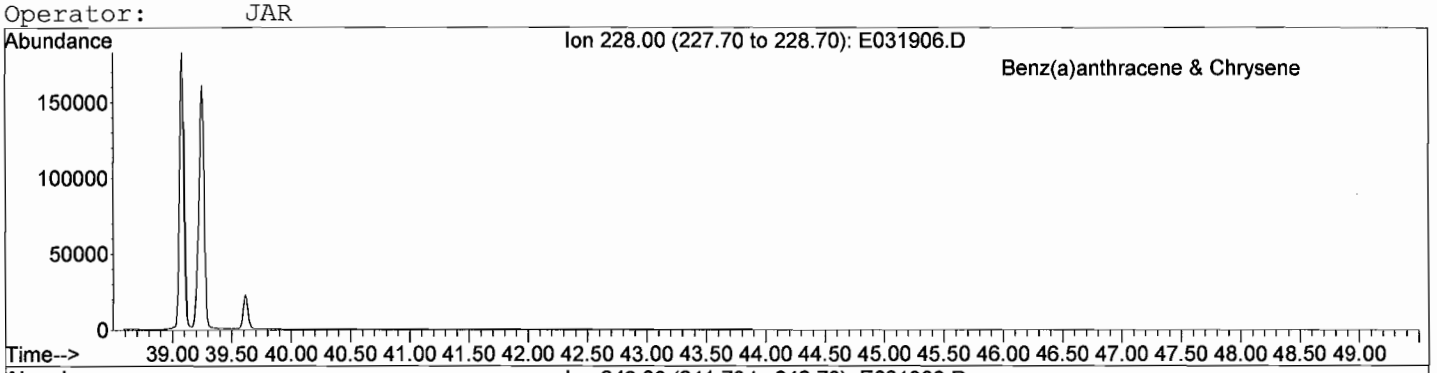


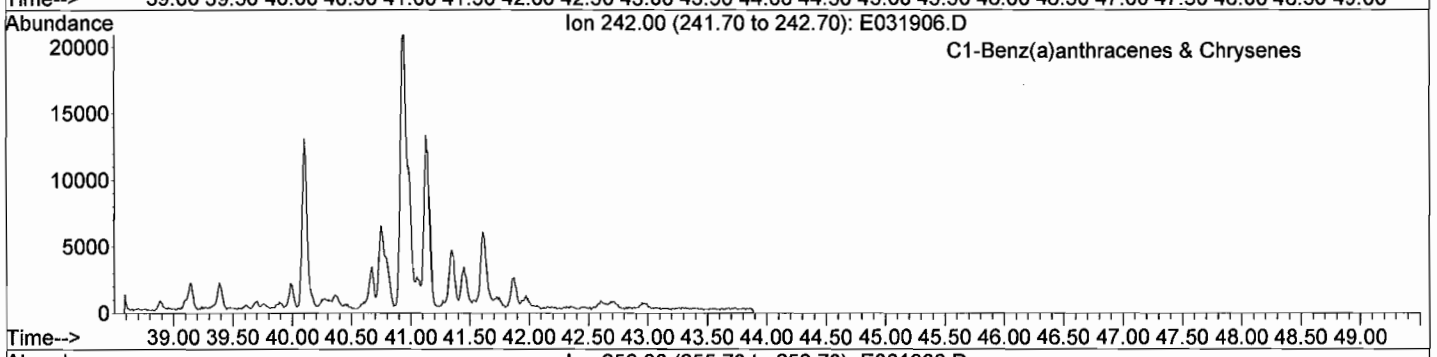


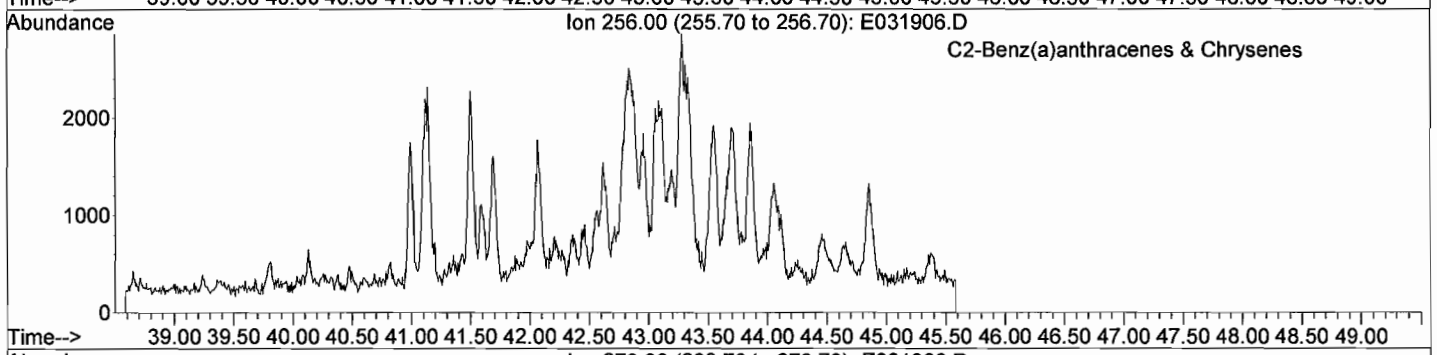
META Environmental, Inc.

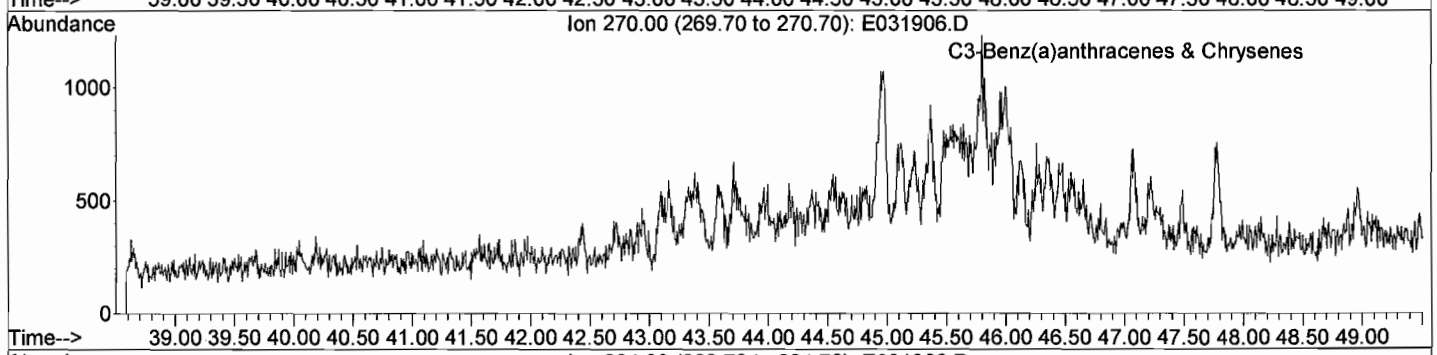
GC/MS EXTRACTED ION CHROMATOGRAM

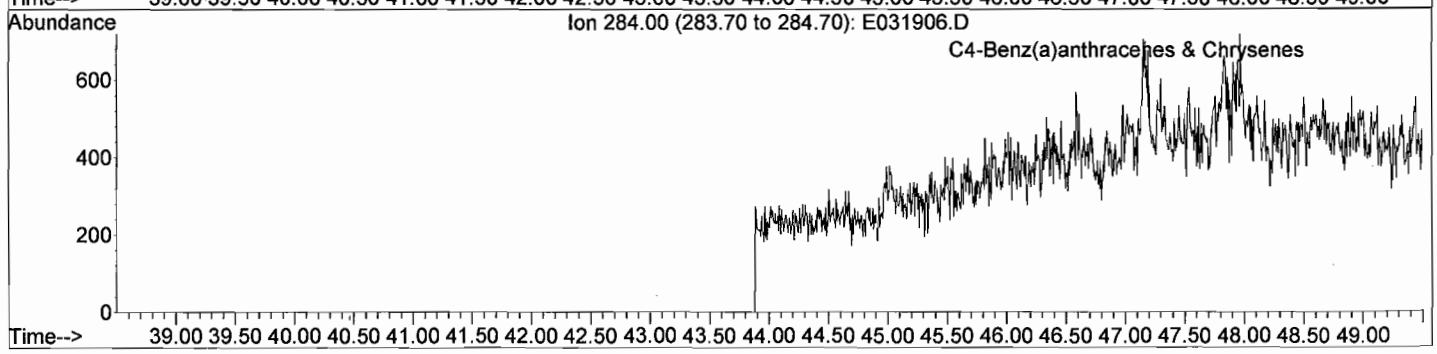
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR







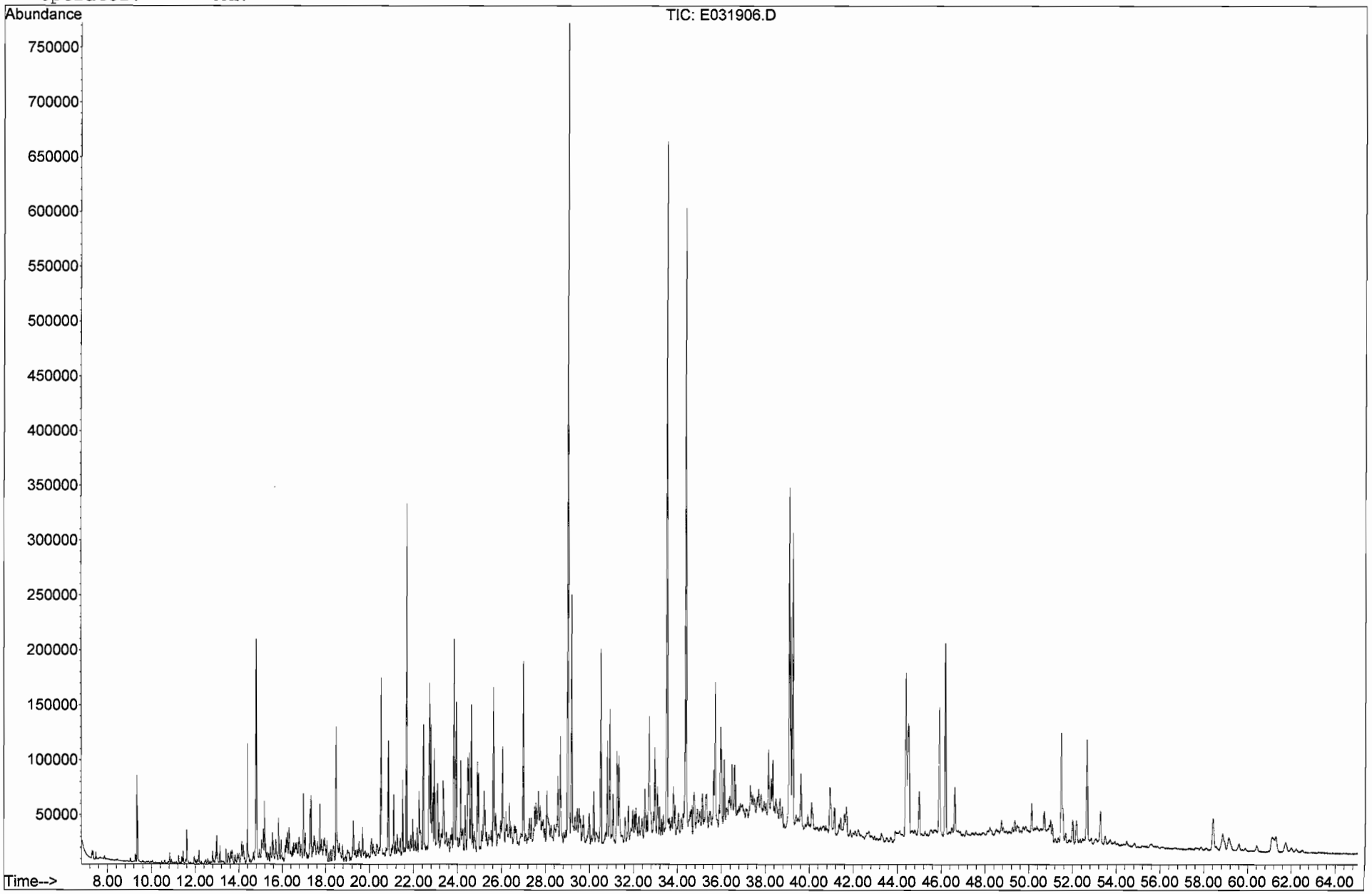




META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

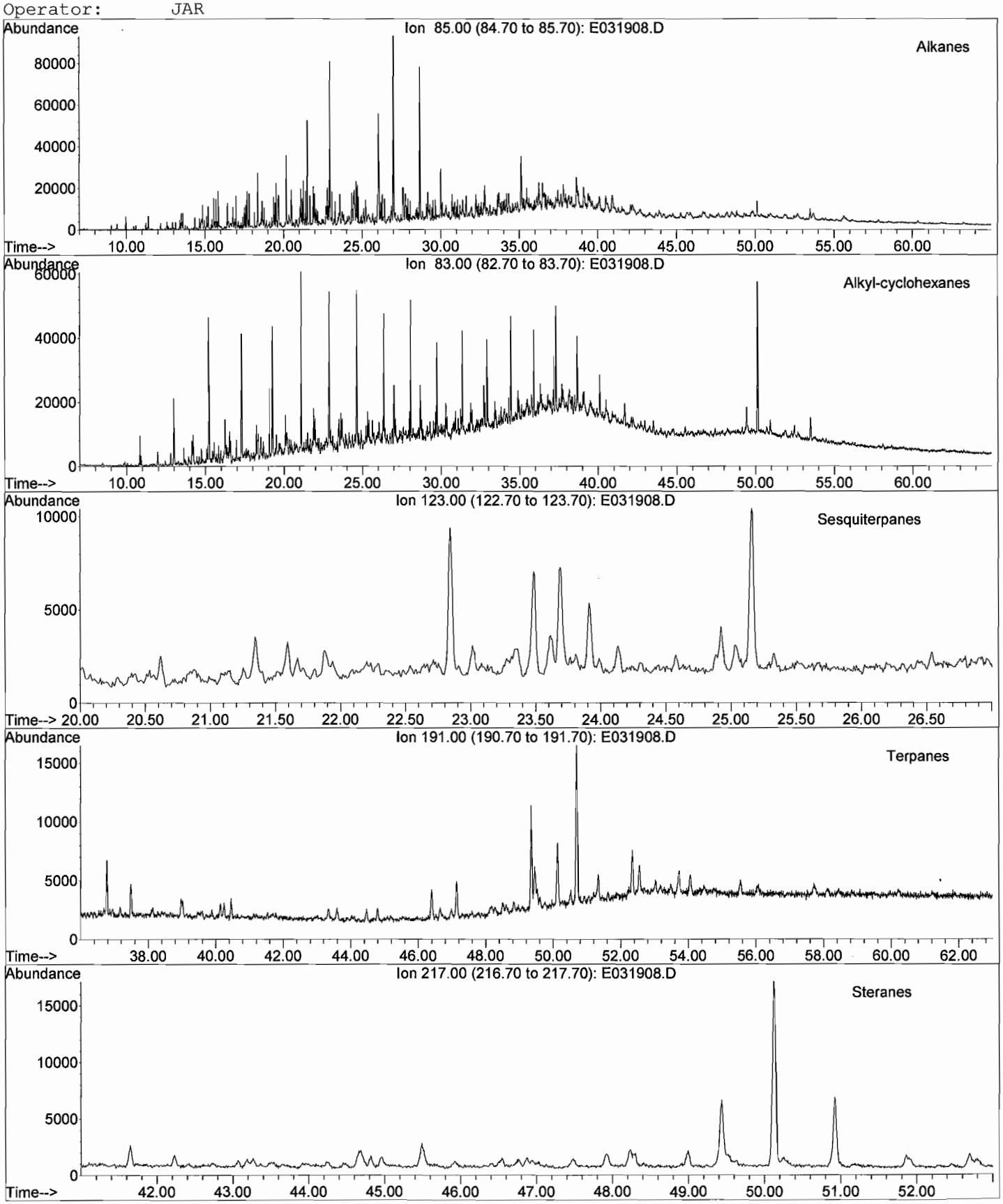
File: J:\1\DATA\E070319\E031906.D
Date Acquired: 19 Mar 2007 9:01 pm
Method File: 4008SIM2.M
Sample Name: BR070313-01-D
Misc Info: CRAW-CSB009-001 (6.8'-7.4')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

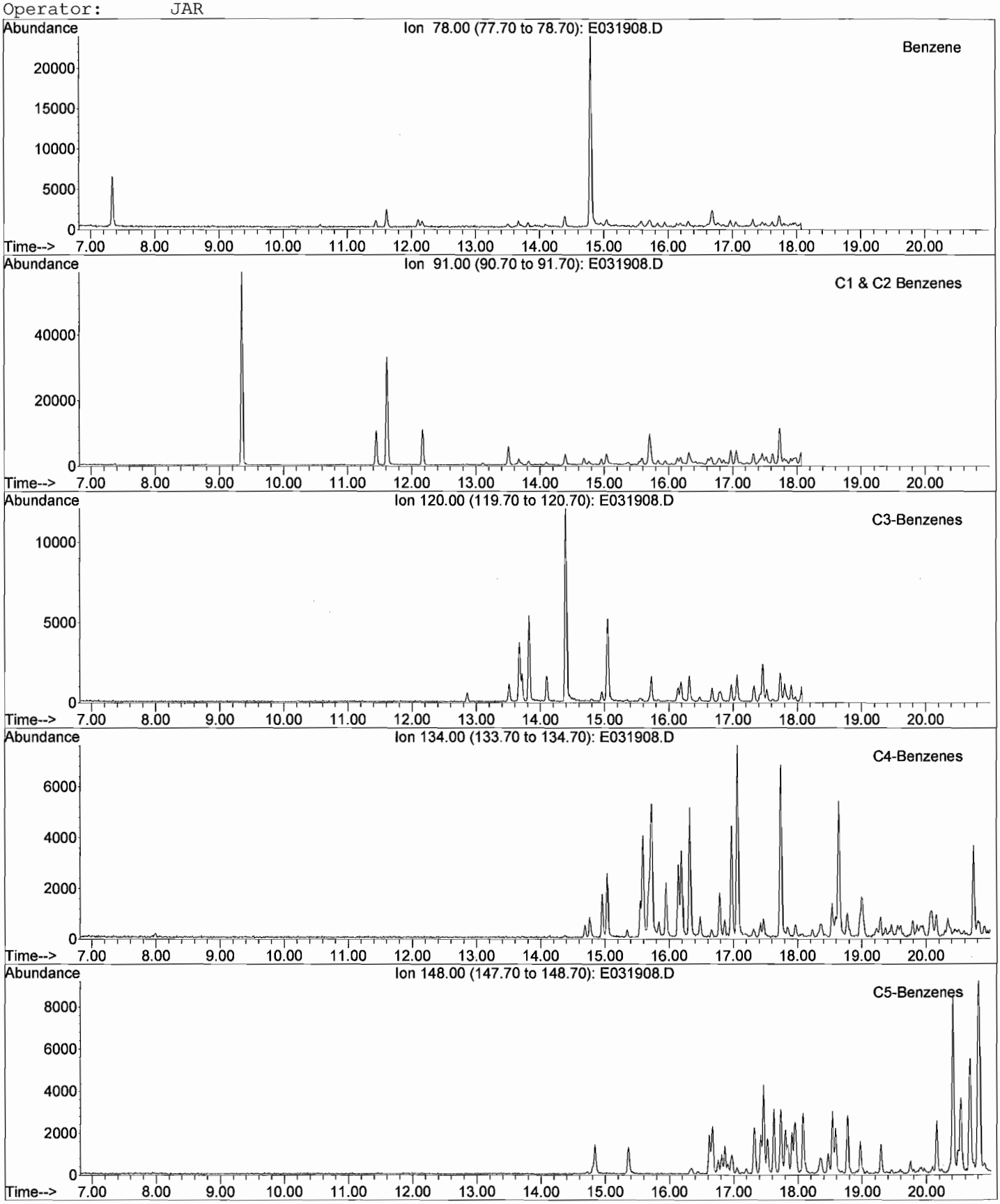
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

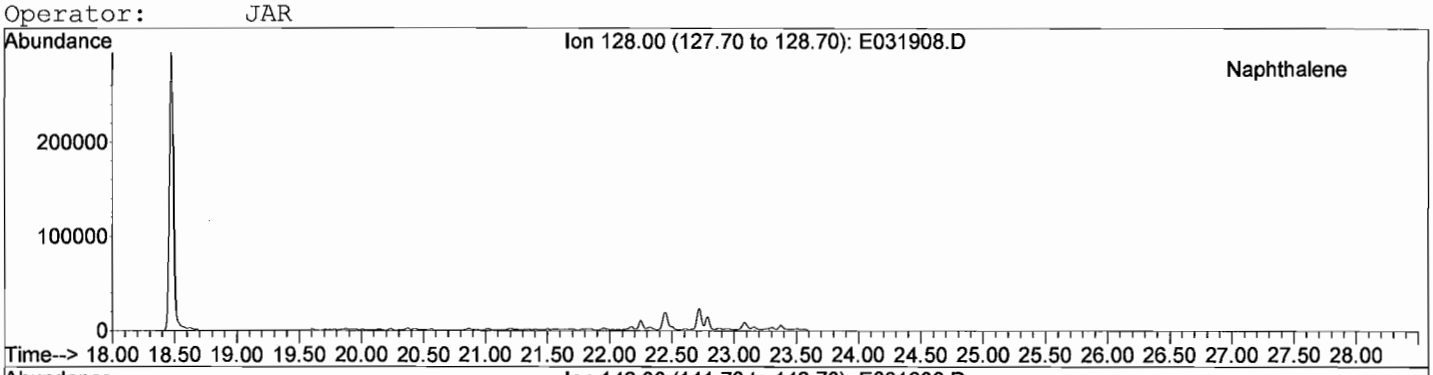
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR

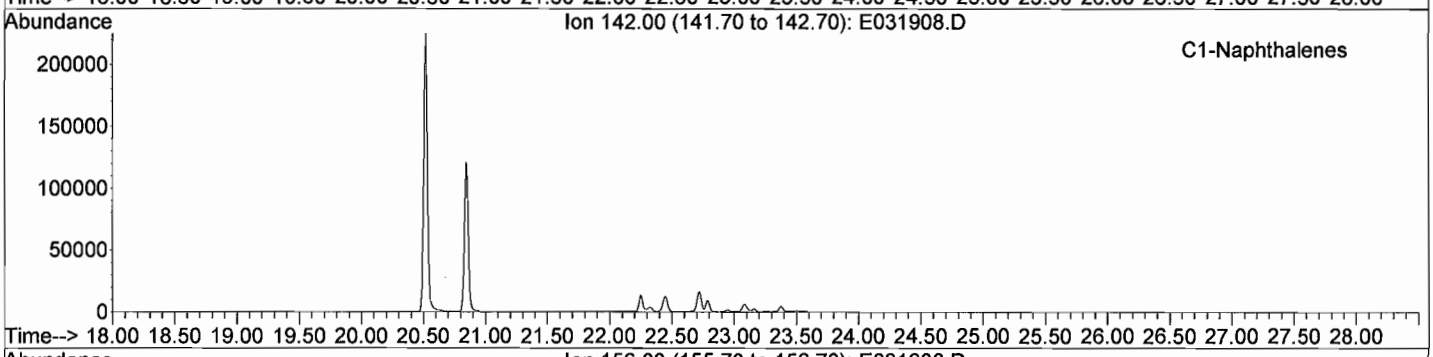


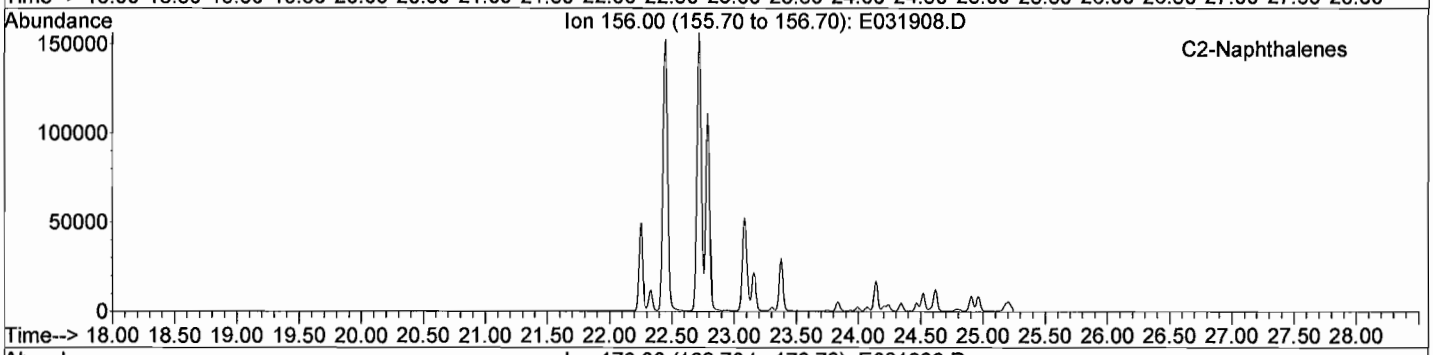
META Environmental, Inc.

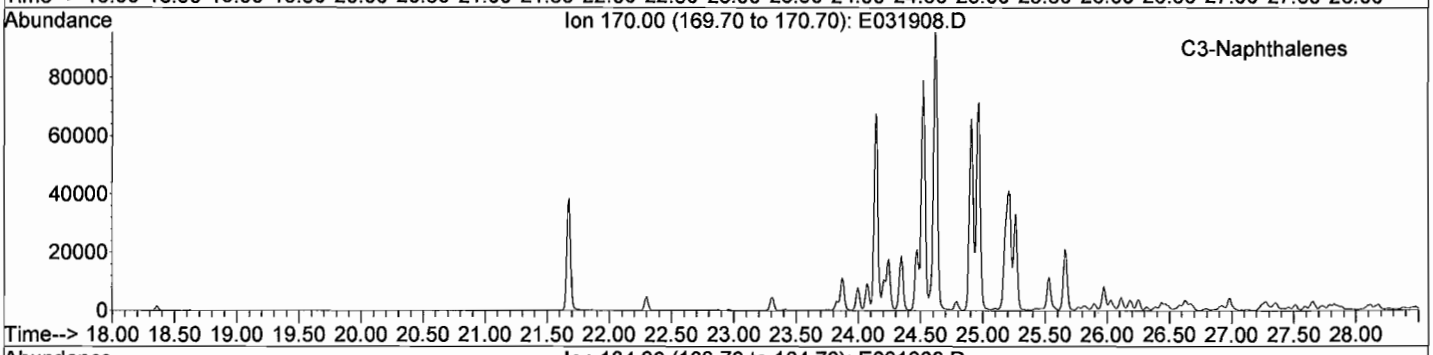
GC/MS EXTRACTED ION CHROMATOGRAM

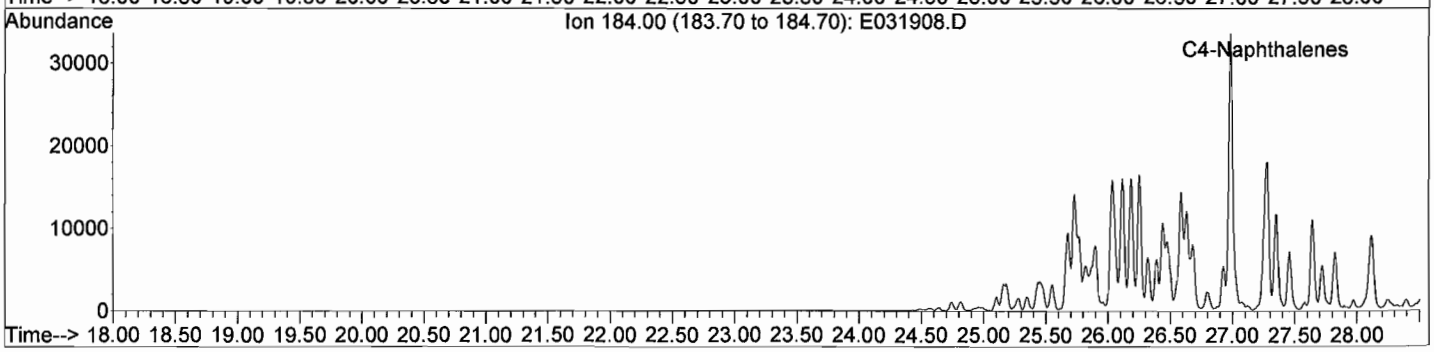
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR







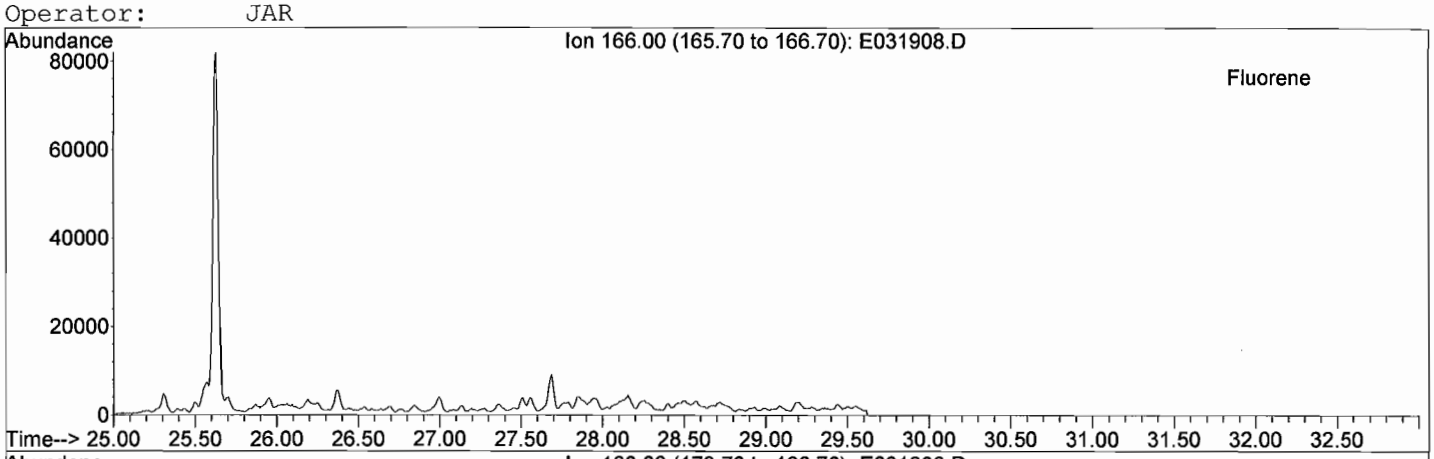


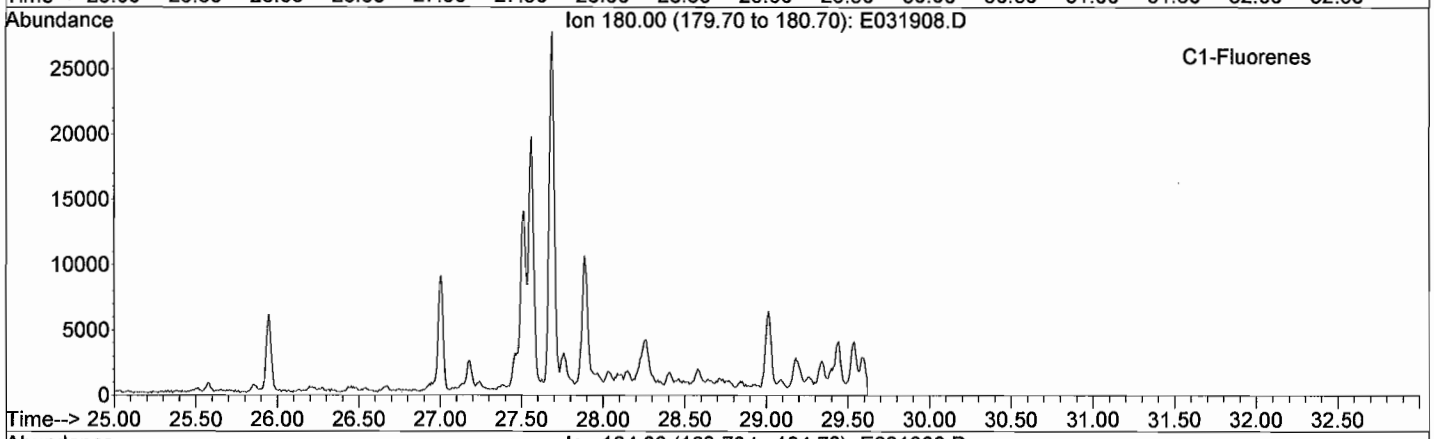


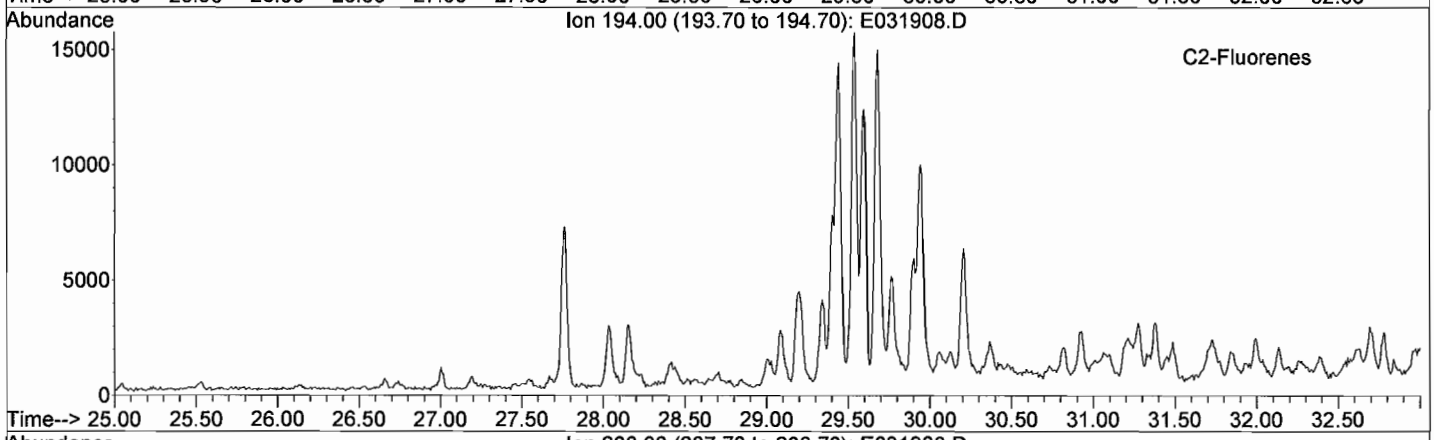
META Environmental, Inc.

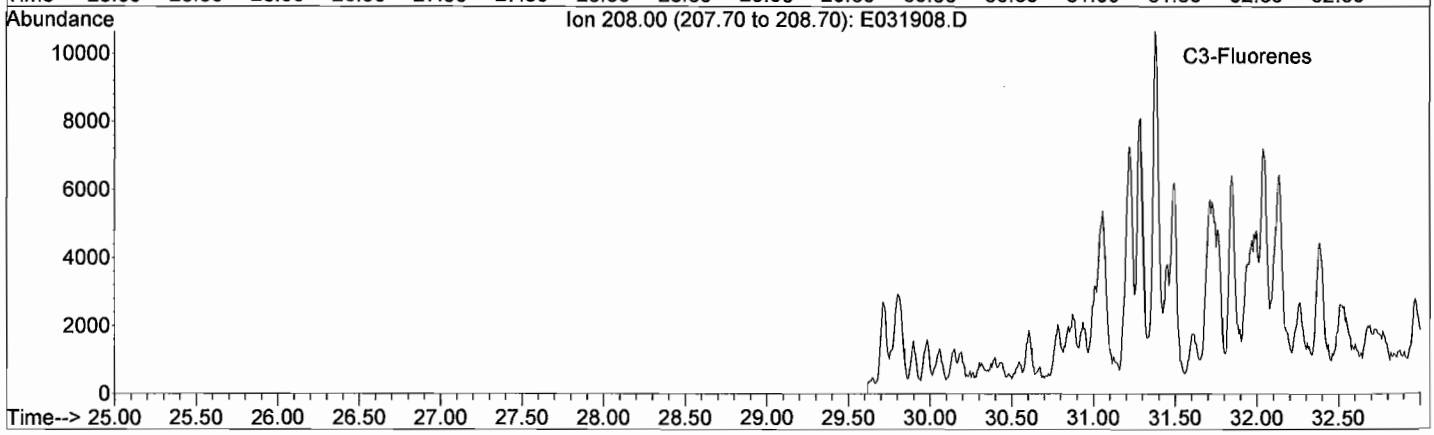
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR





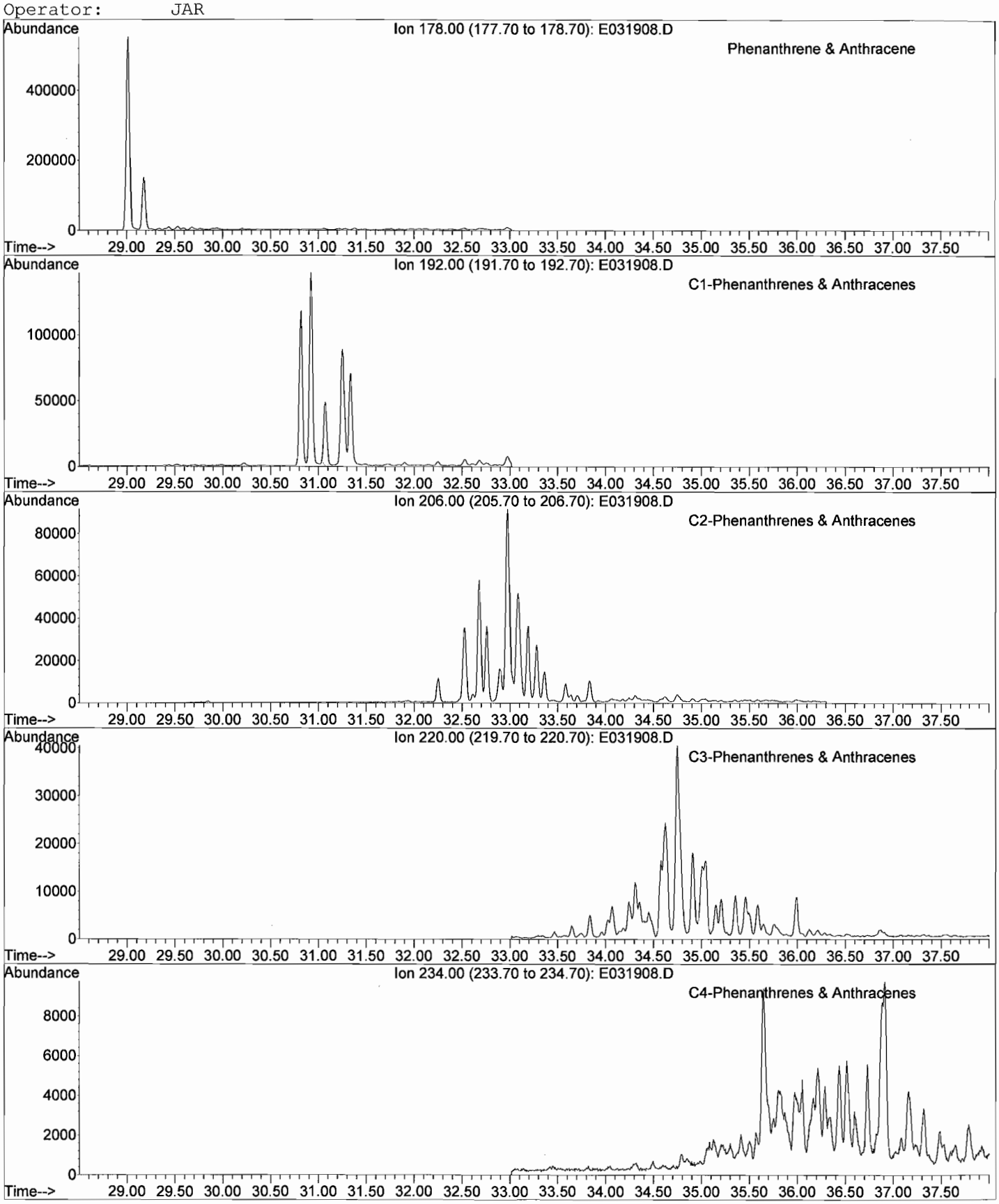




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

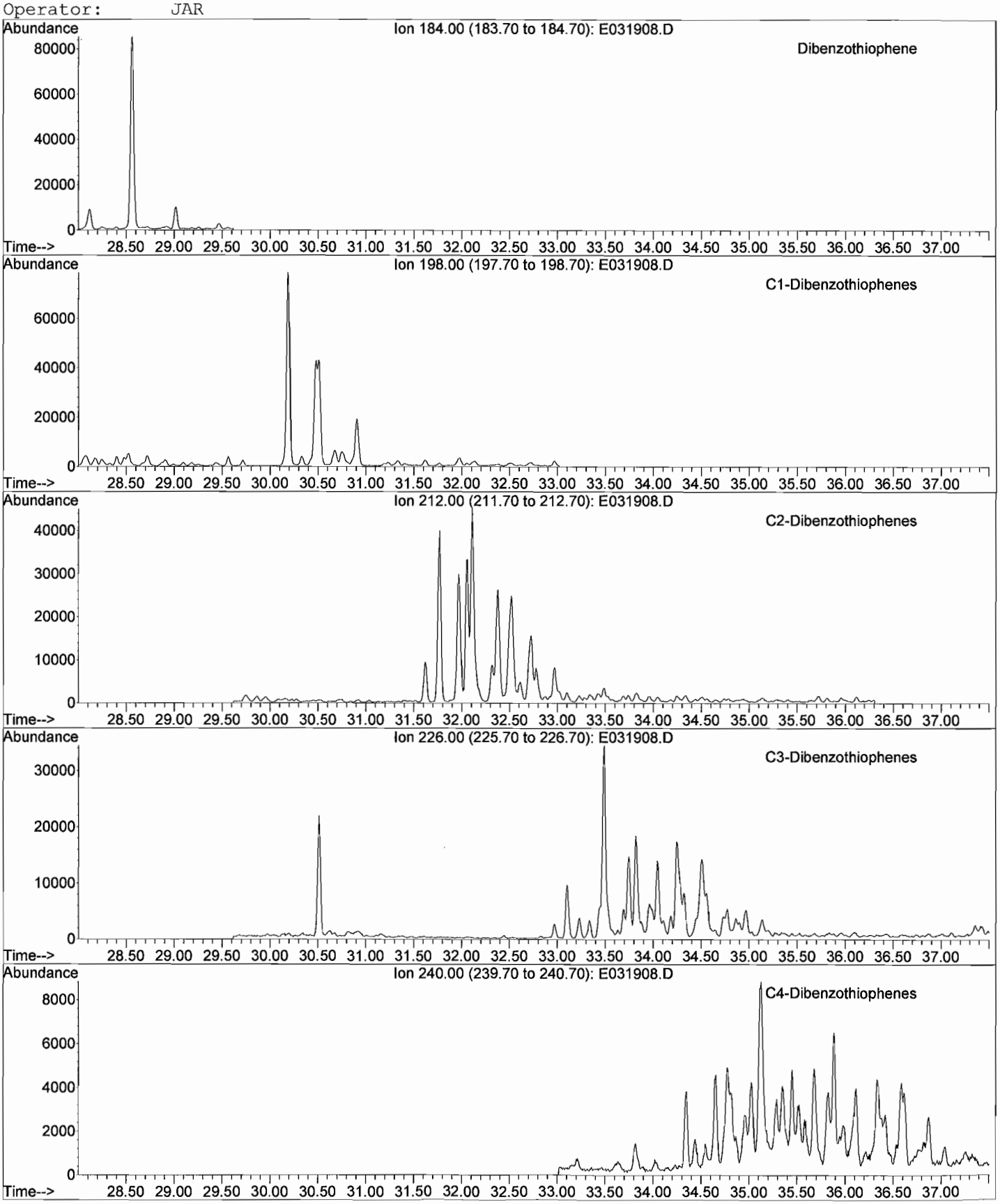
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

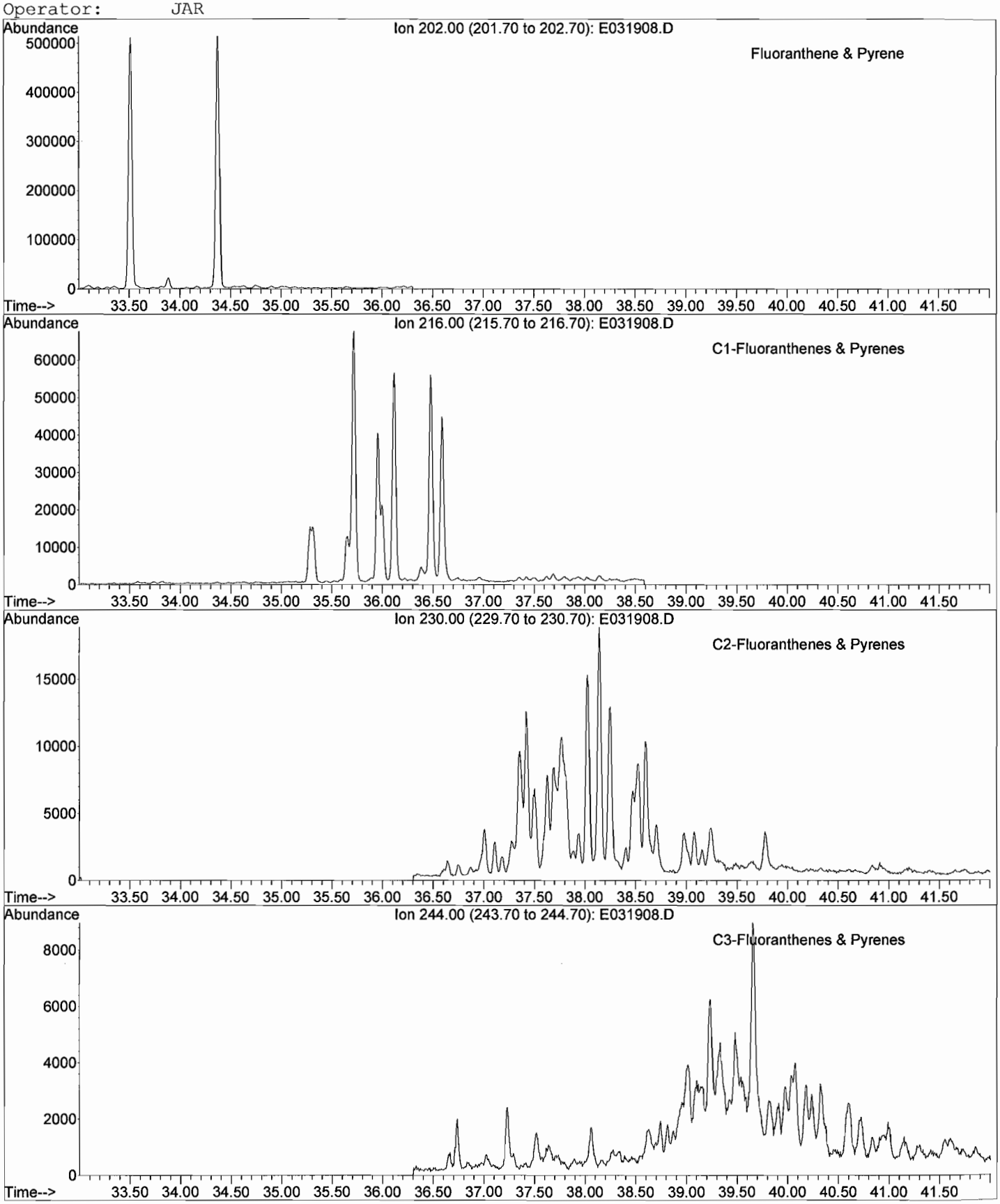
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

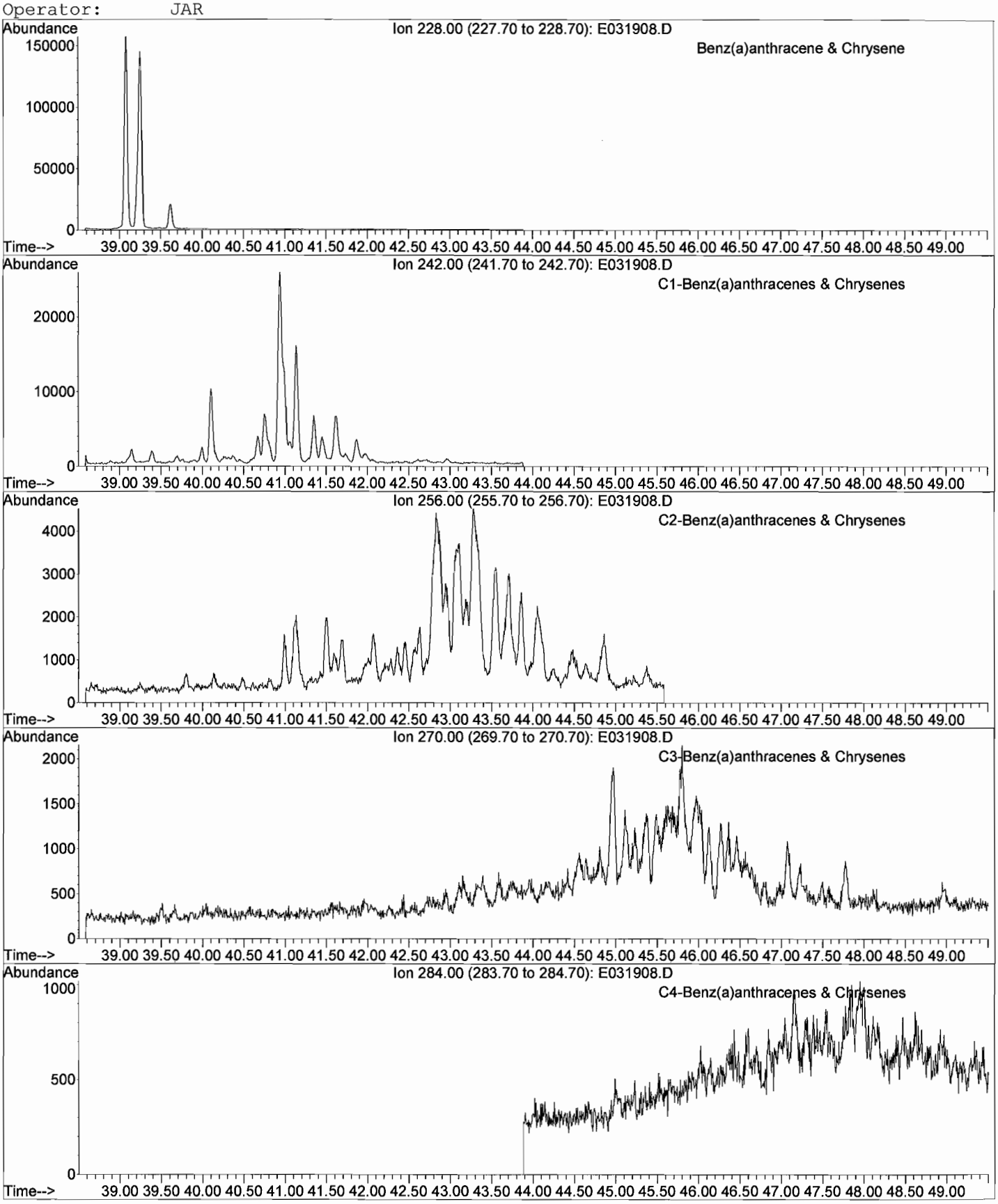
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

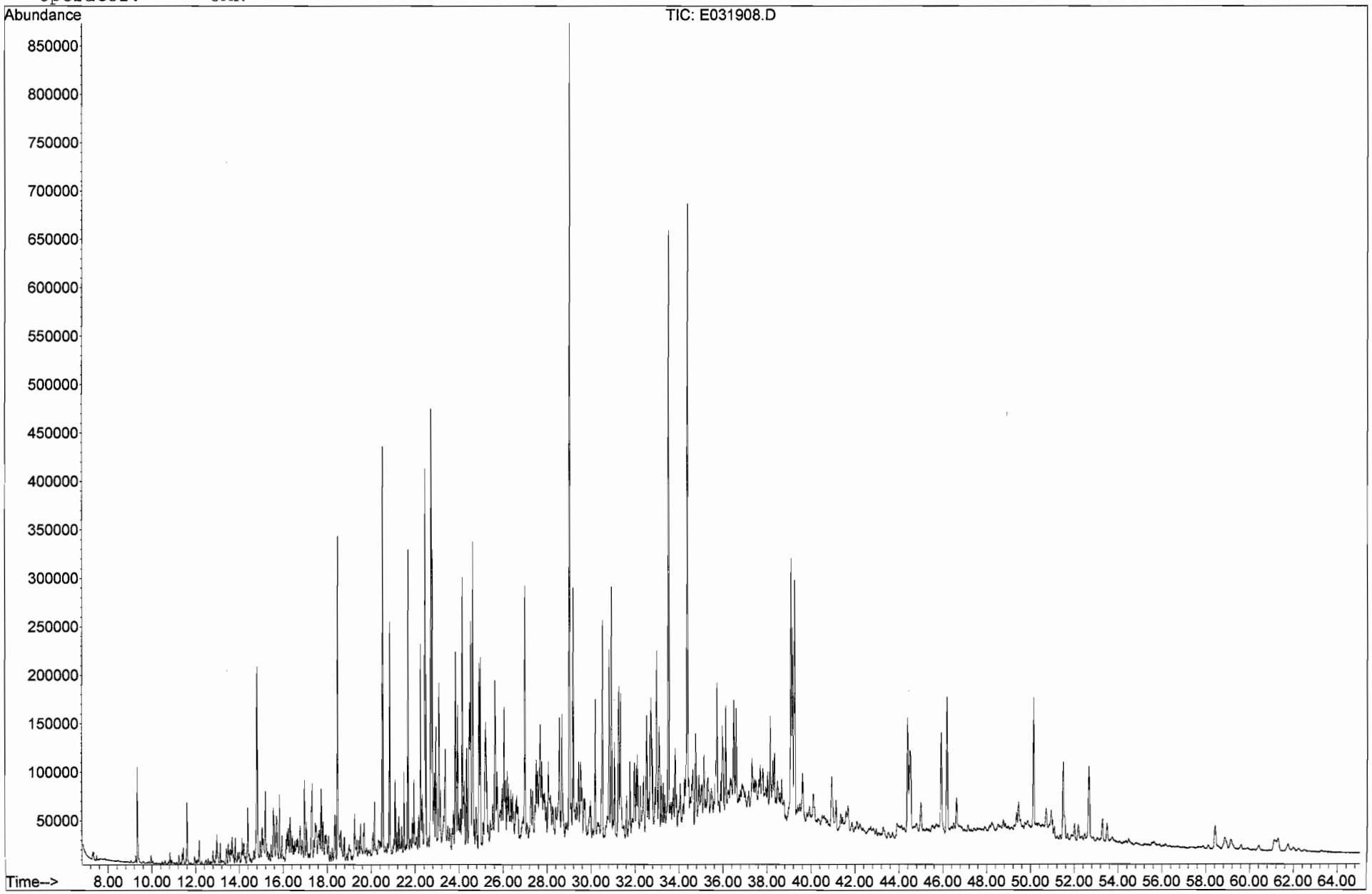
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

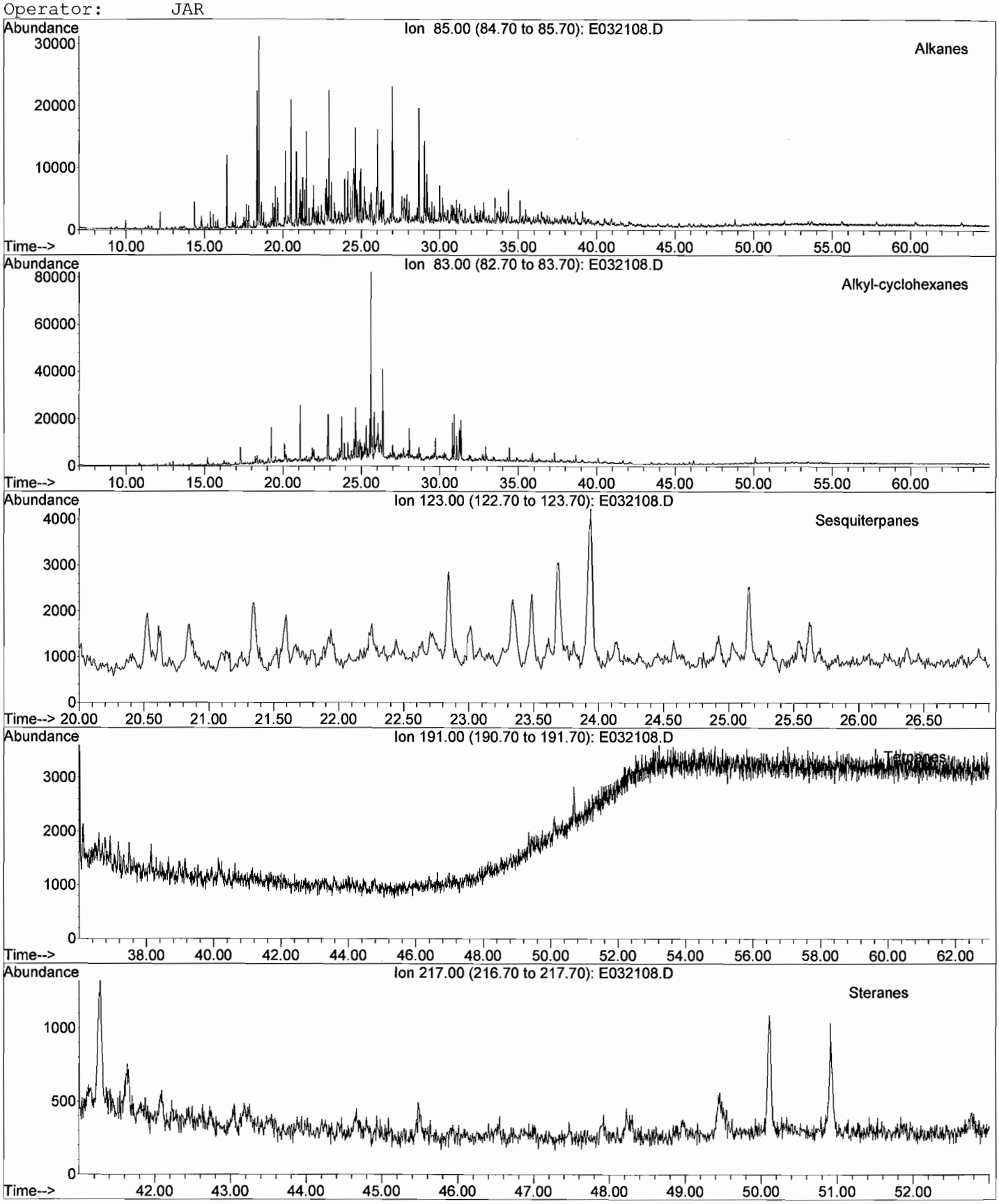
File: J:\1\DATA\E070319\E031908.D
Date Acquired: 19 Mar 2007 11:37 pm
Method File: 4008SIM2.M
Sample Name: BR070313-02-D
Misc Info: CRAW-CSB014-001 (5.3'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

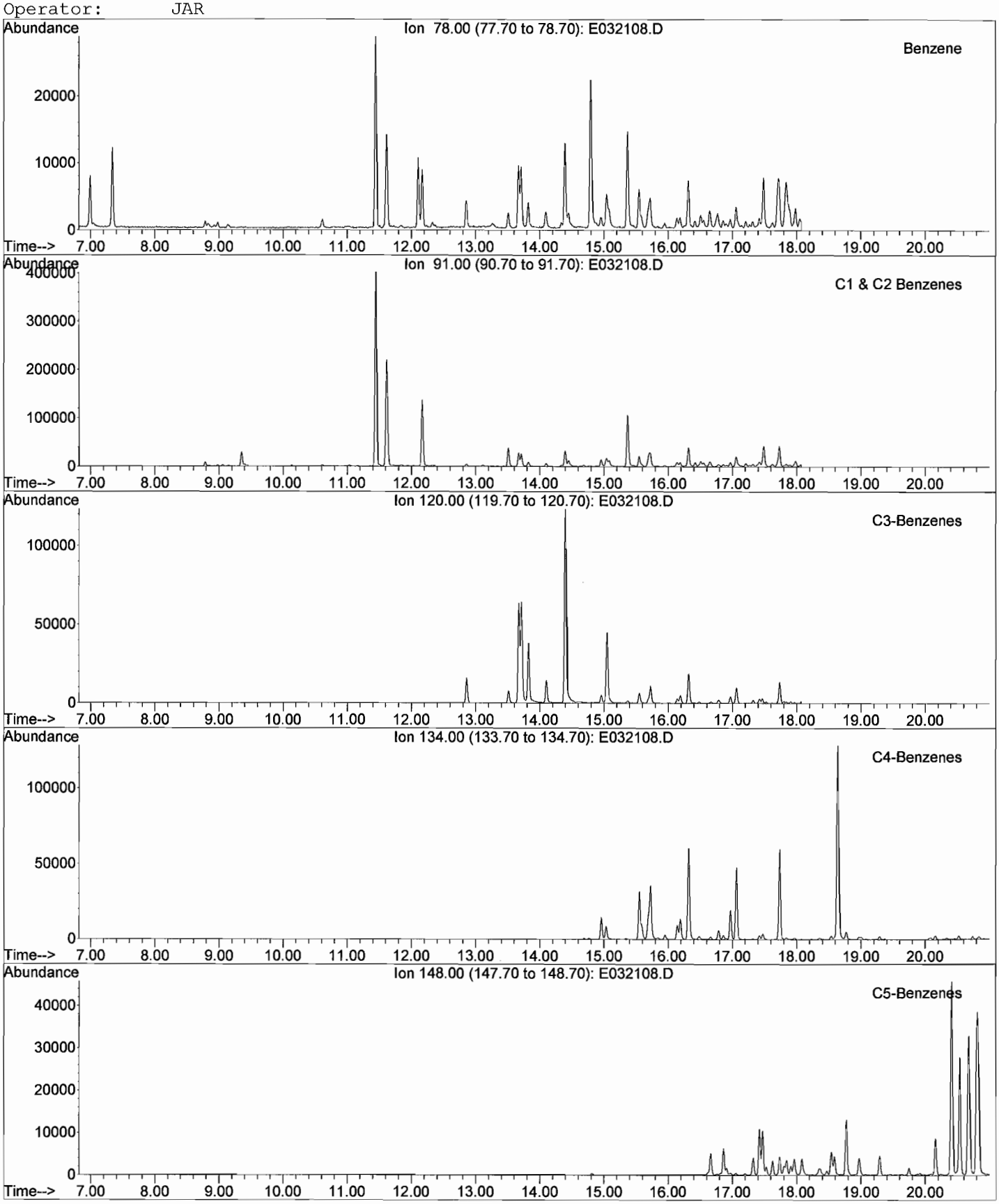
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
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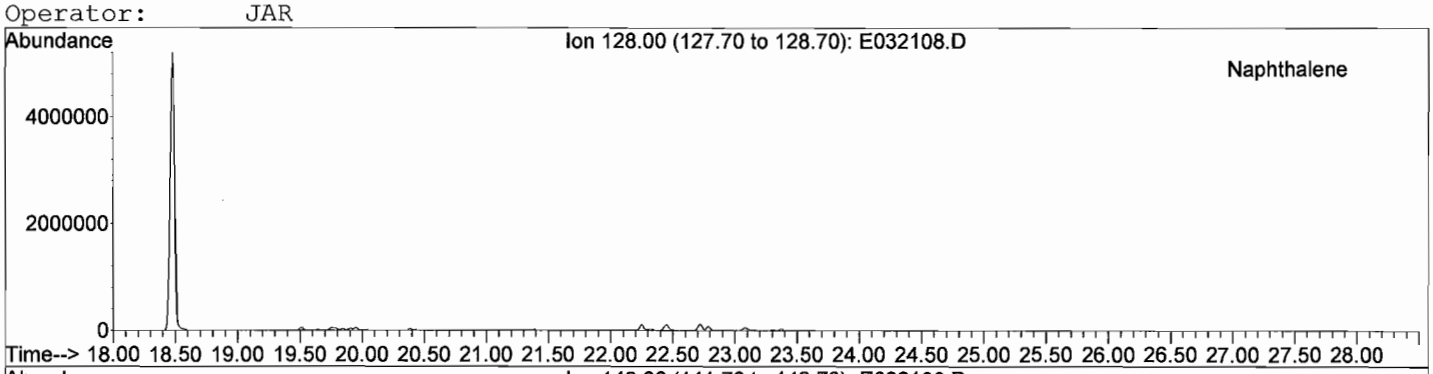
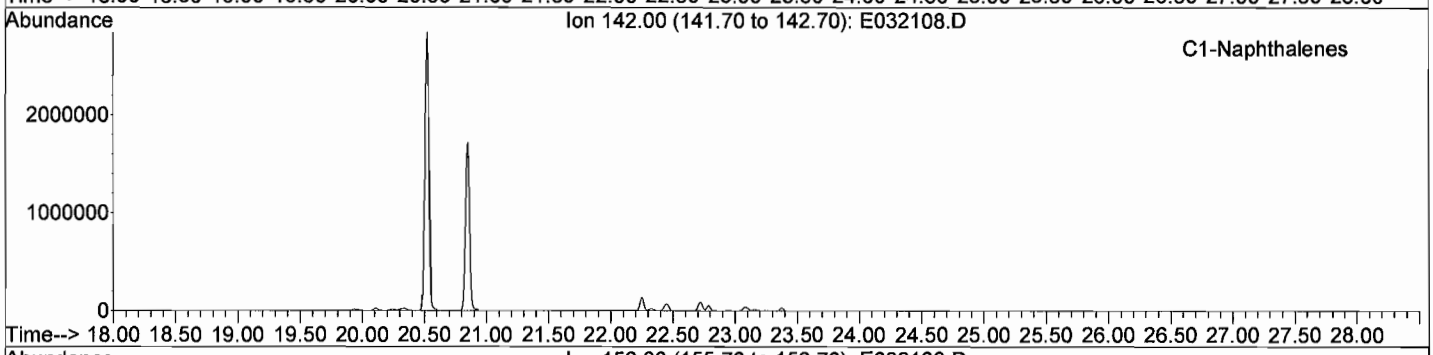
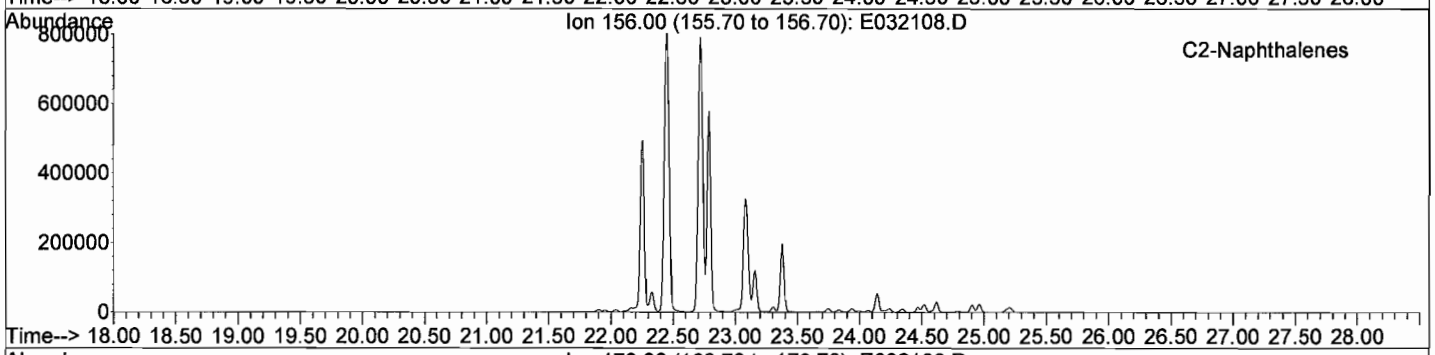
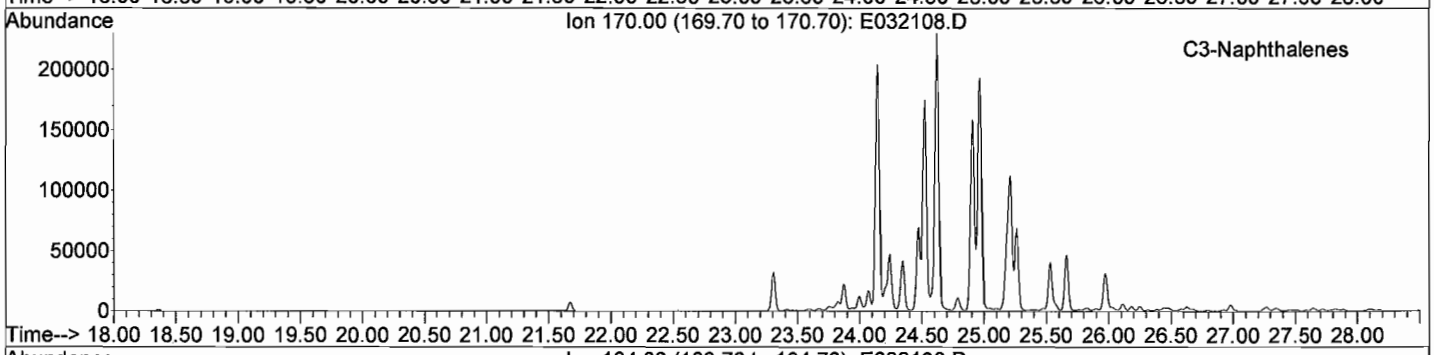
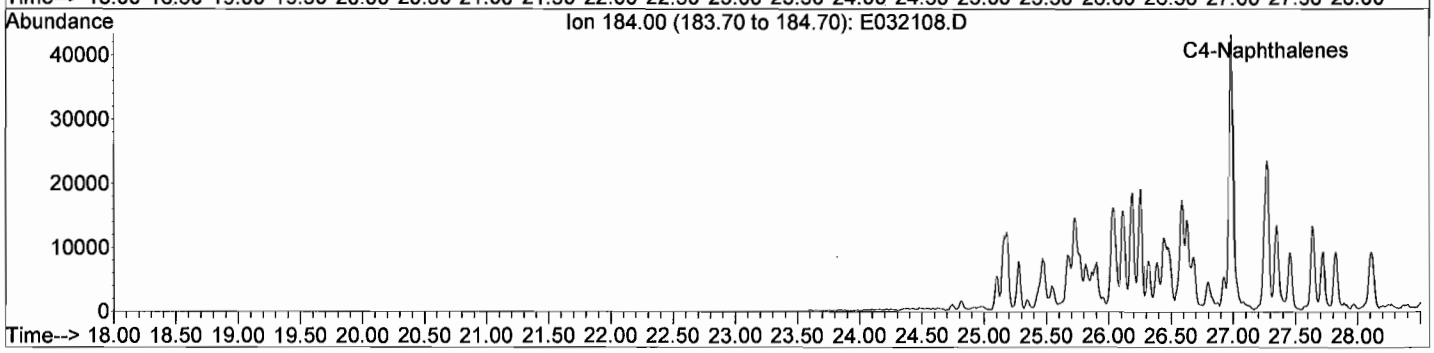
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR







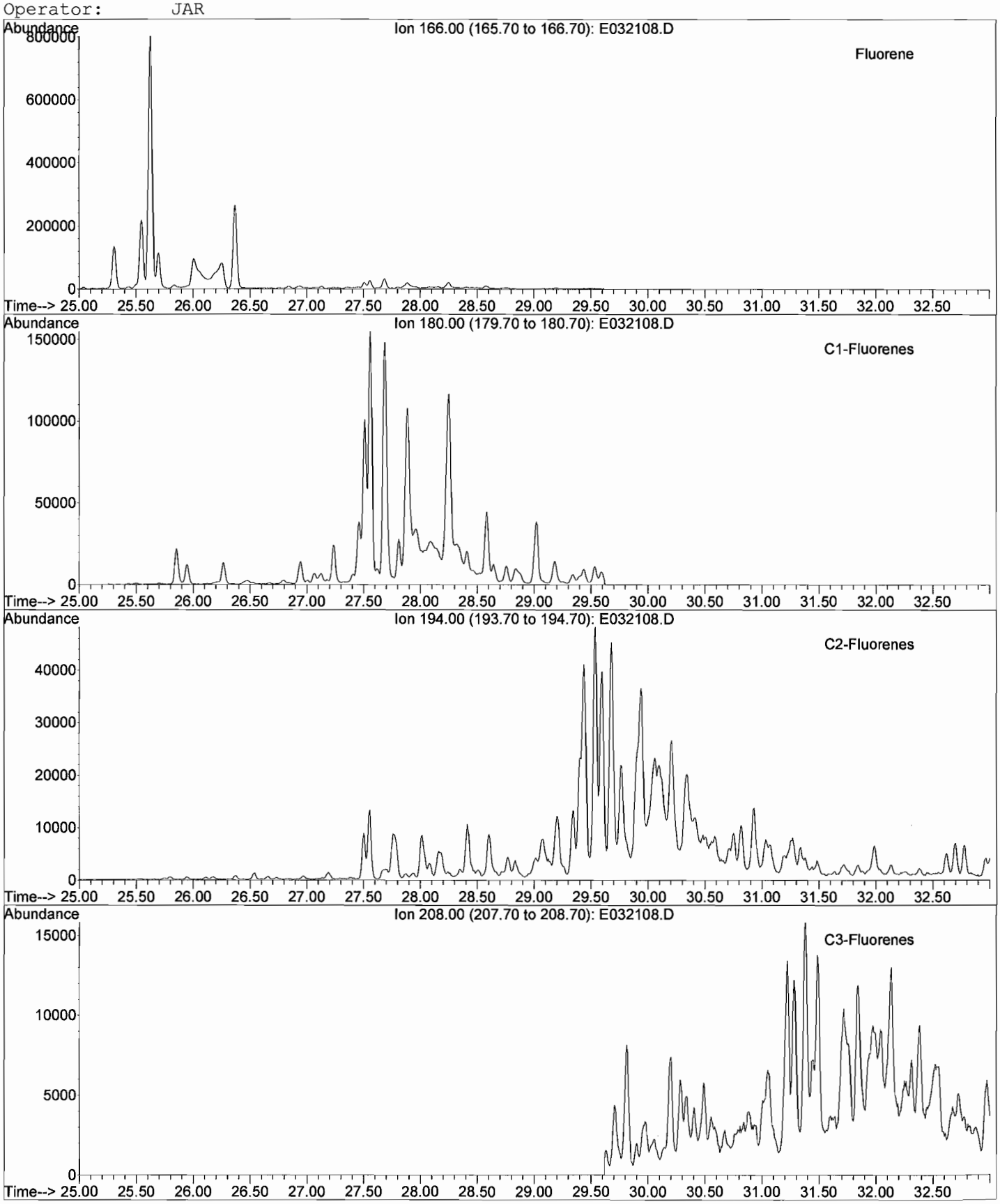




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

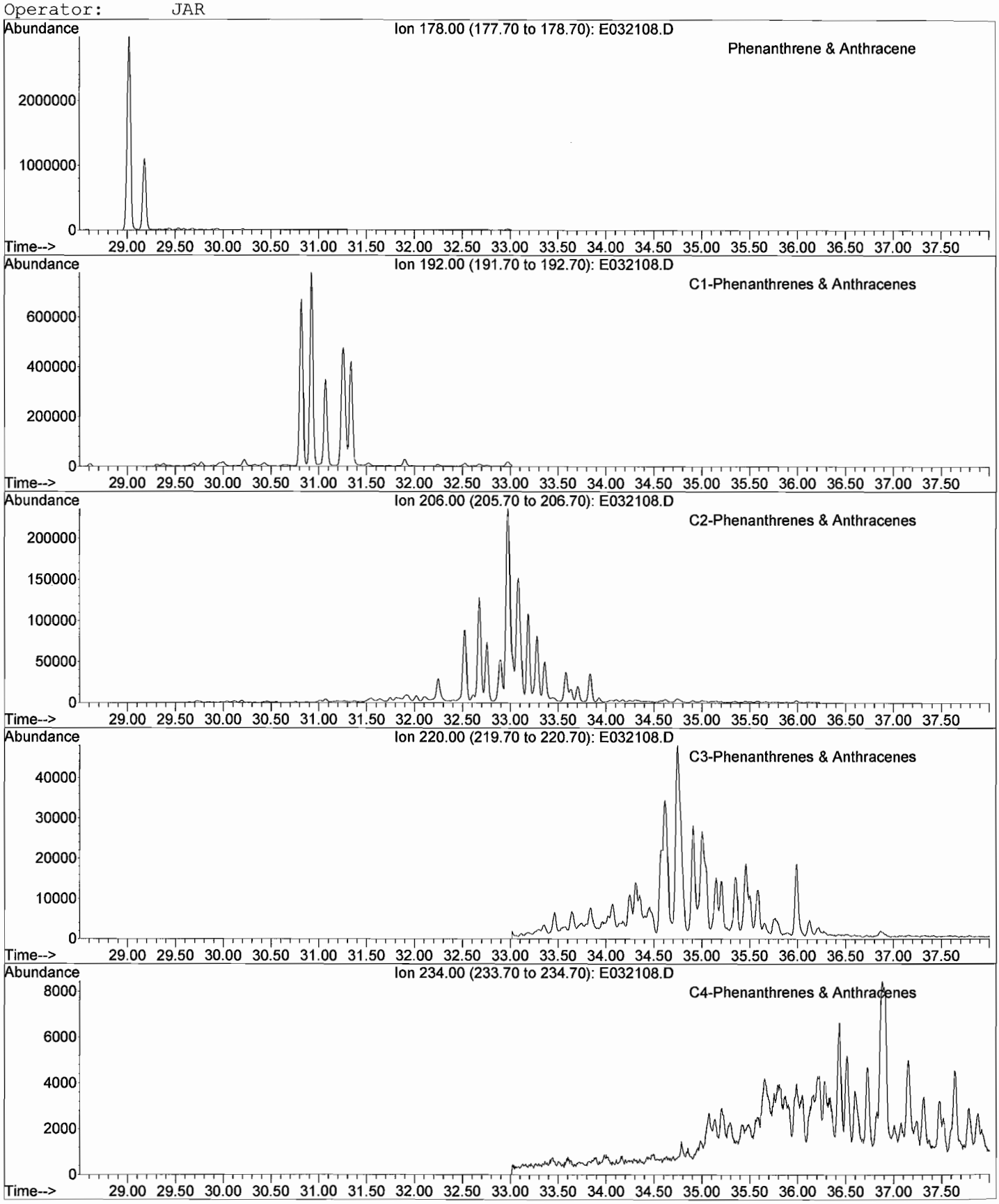
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

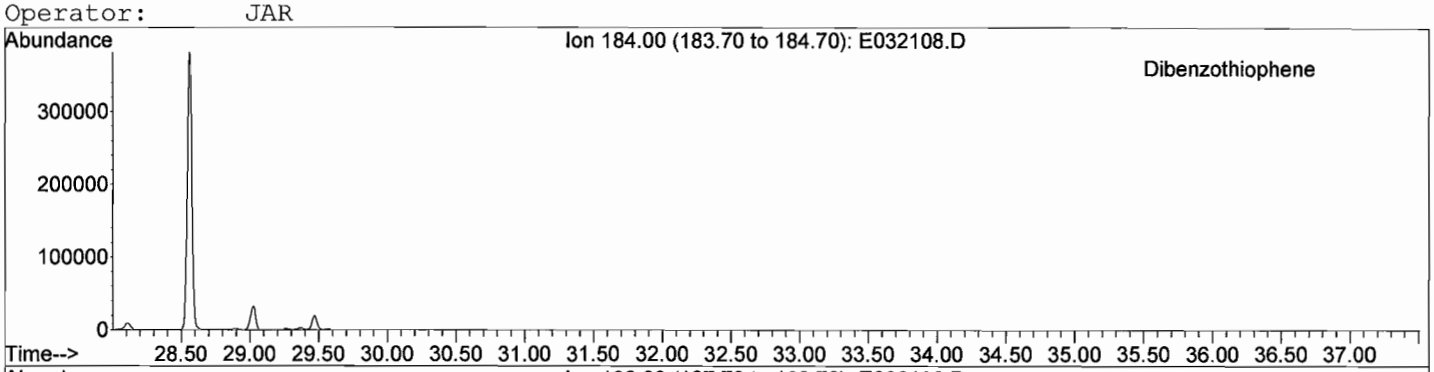
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR

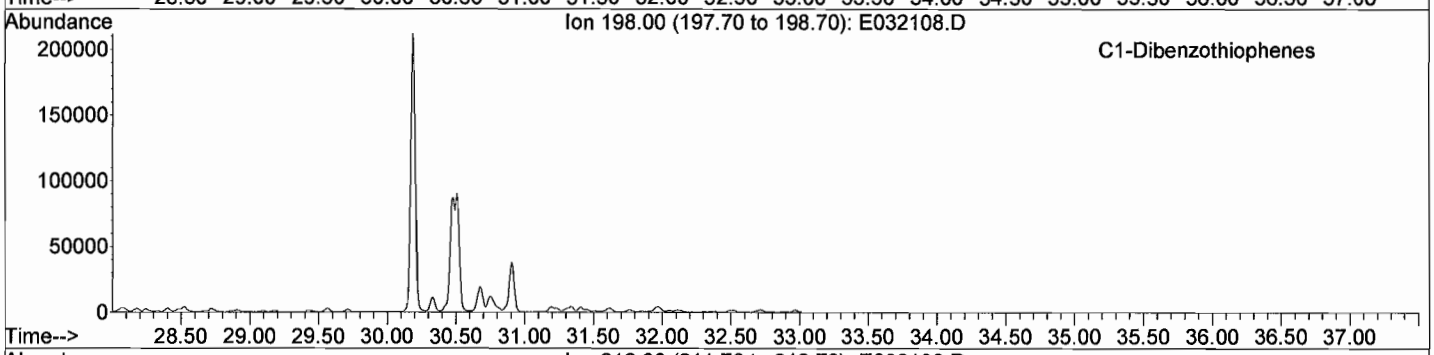


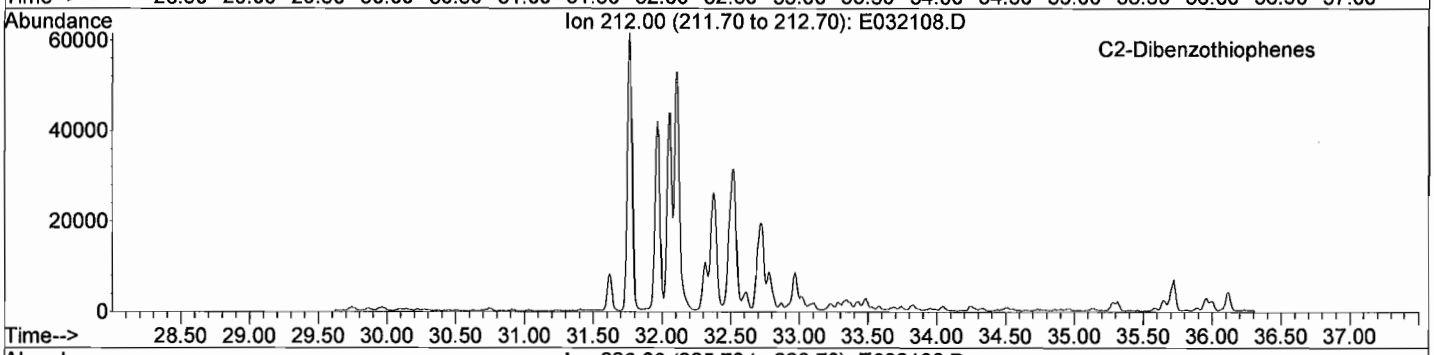
META Environmental, Inc.

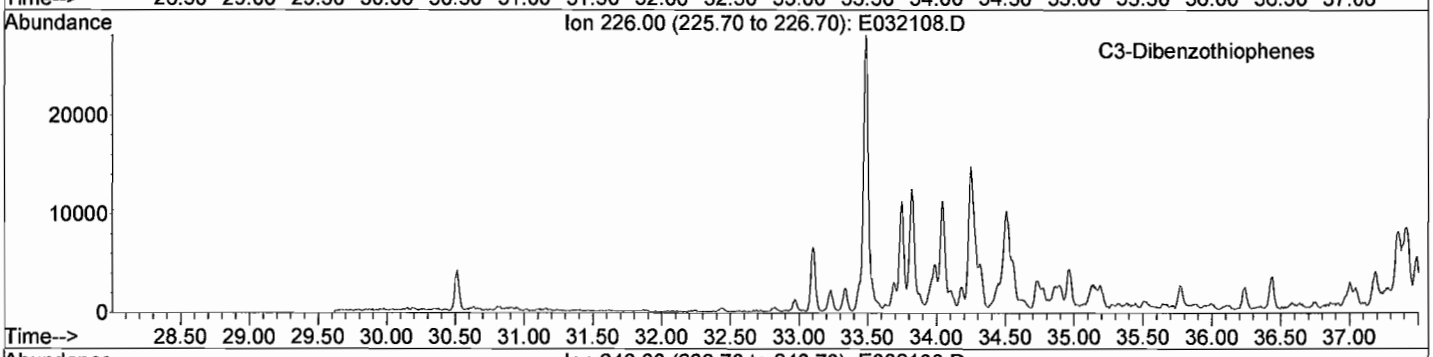
GC/MS EXTRACTED ION CHROMATOGRAM

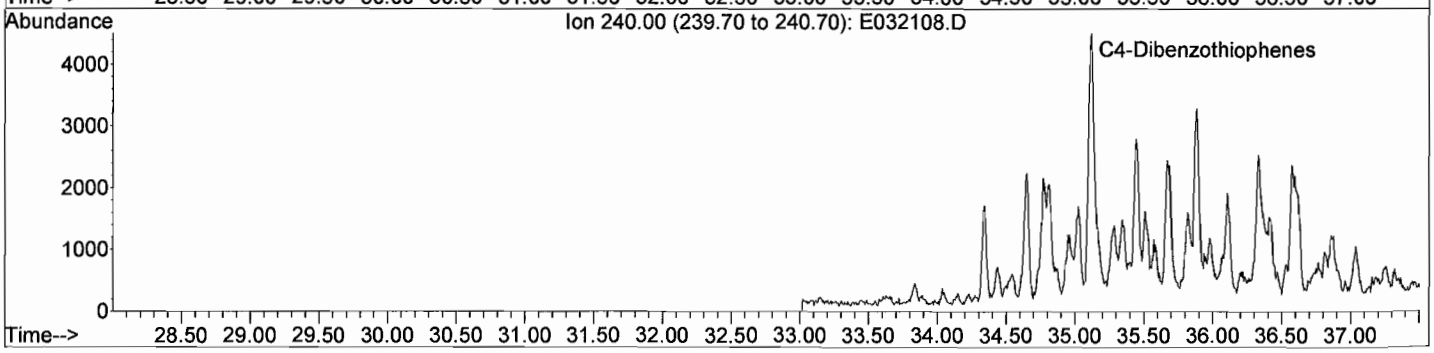
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR







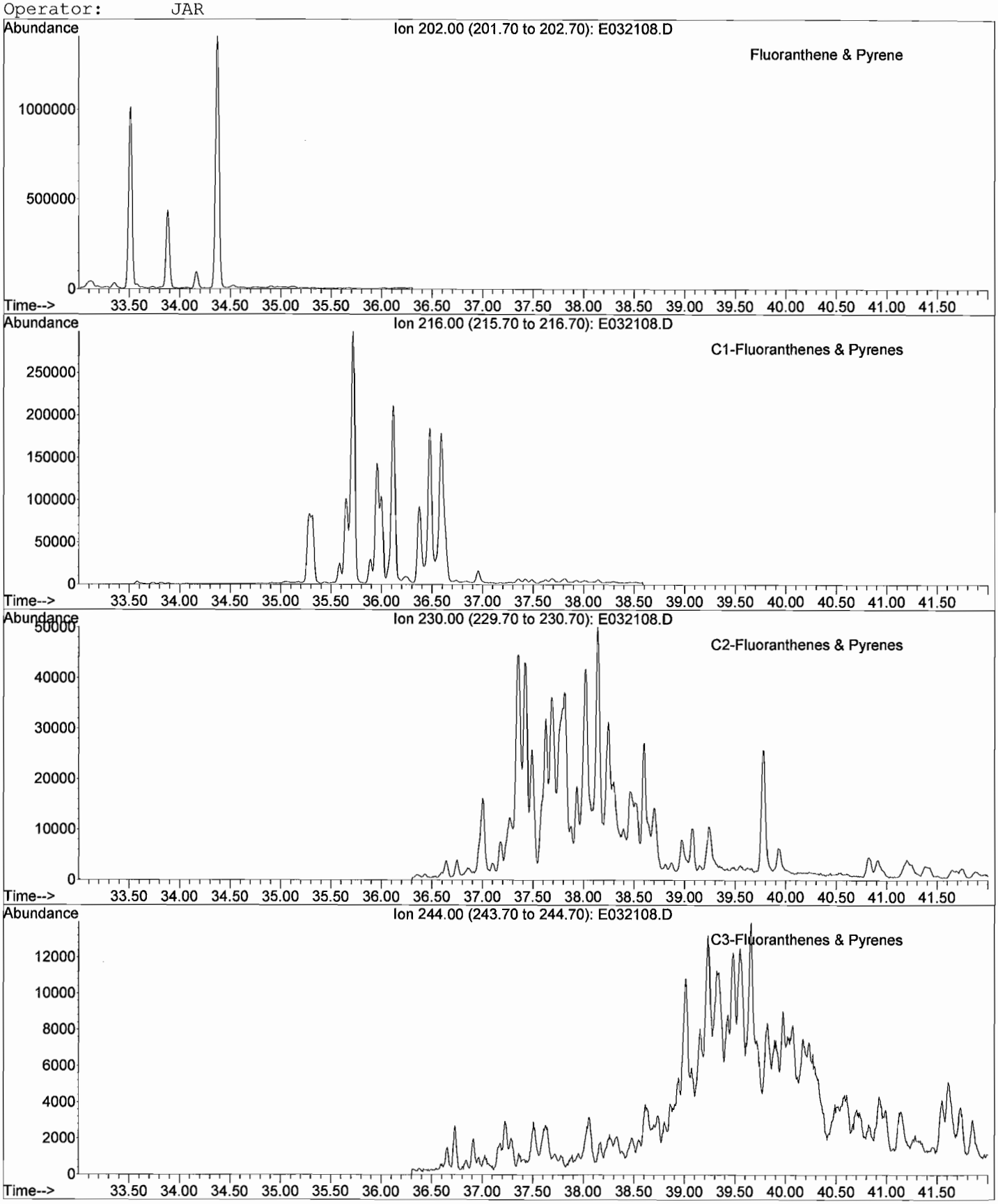




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

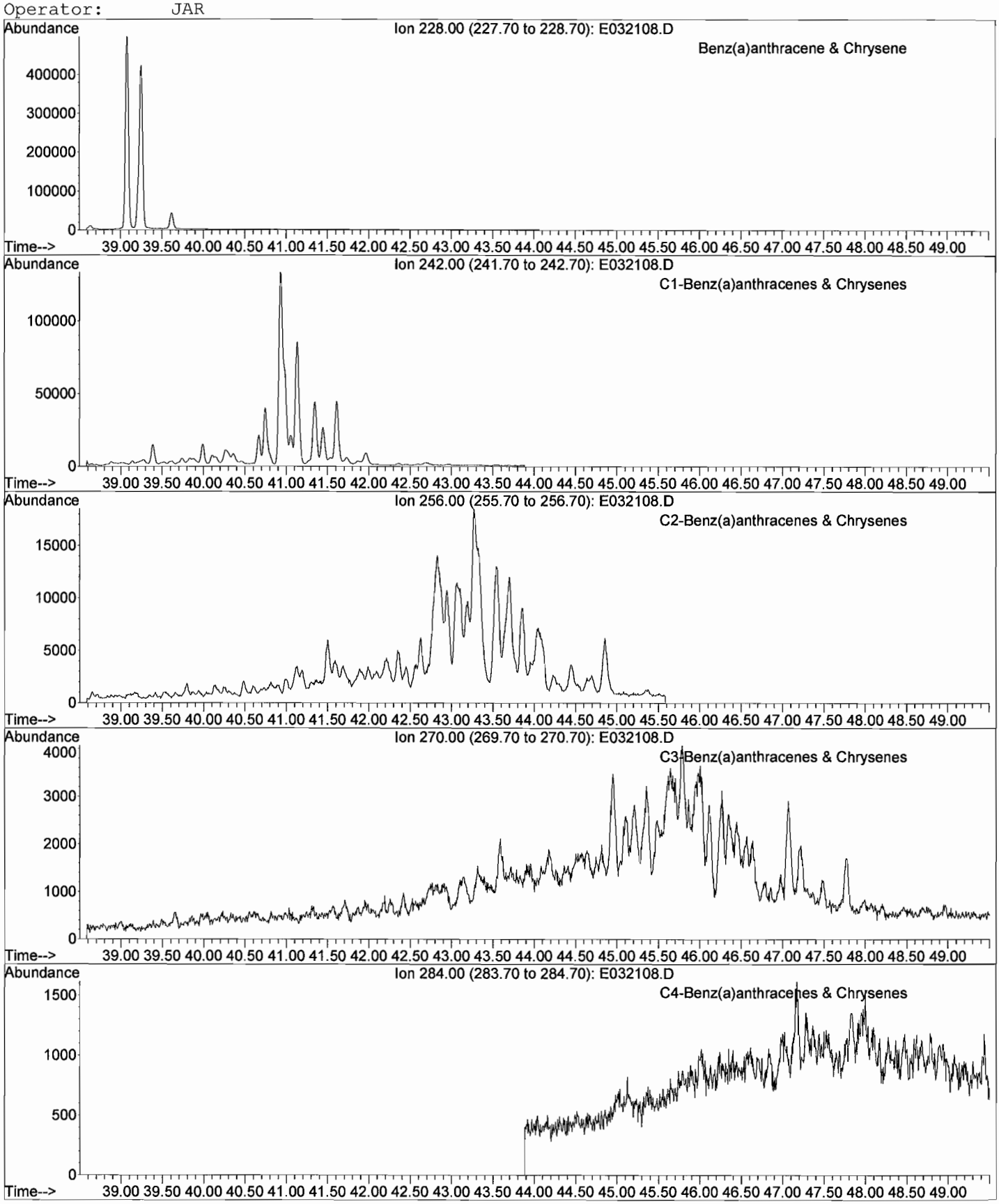
File: J:\l\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

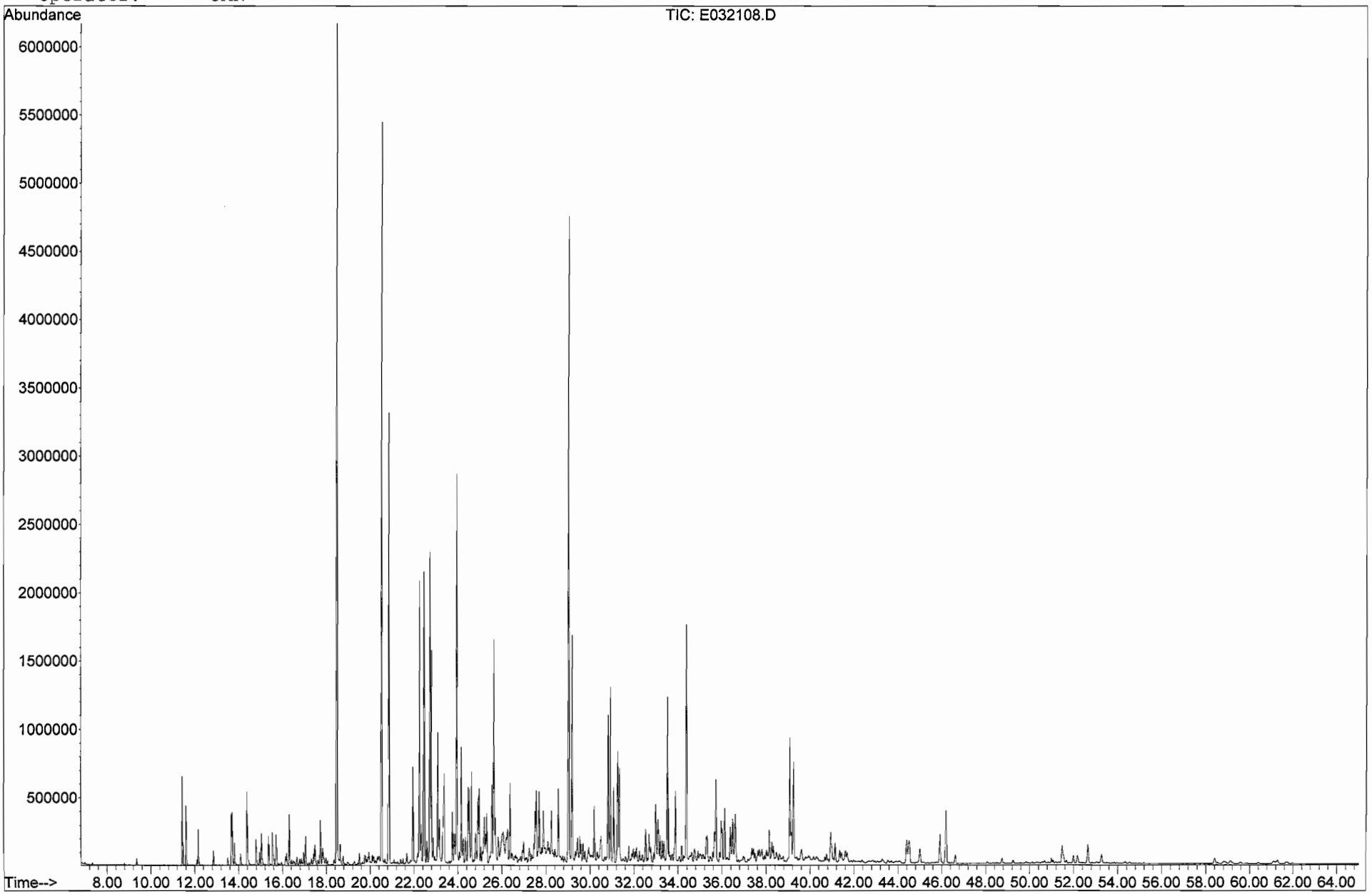
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

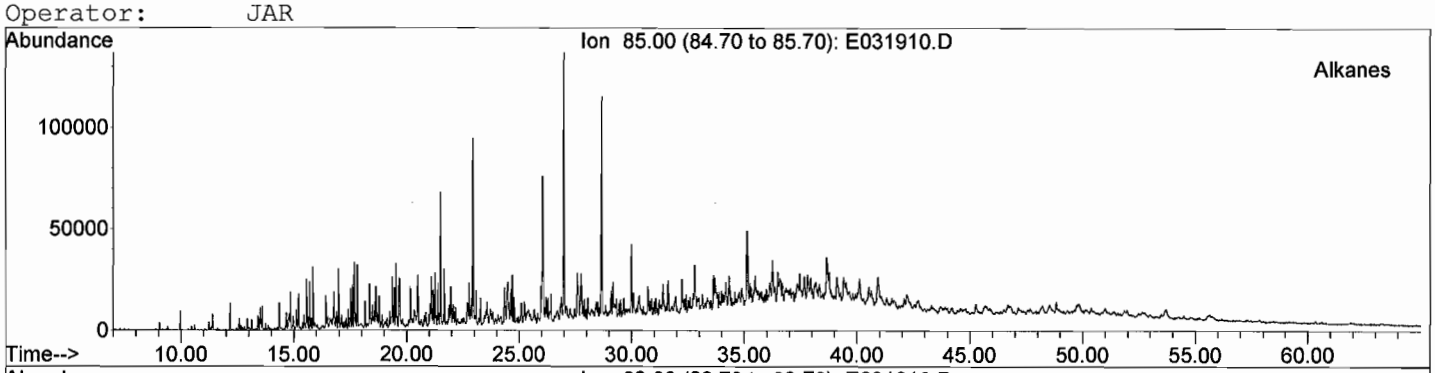
File: J:\1\DATA\E070321\E032108.D
Date Acquired: 21 Mar 2007 10:39 pm
Method File: 4008SIM2.M
Sample Name: BR070313-03-D3
Misc Info: CRAW-CSB014-002 (13.1'-14.0')
Operator: JAR

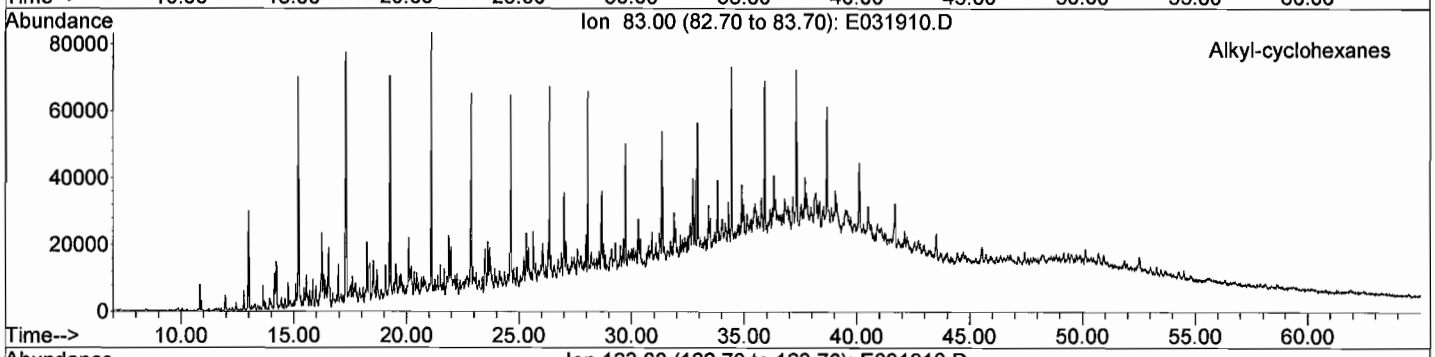


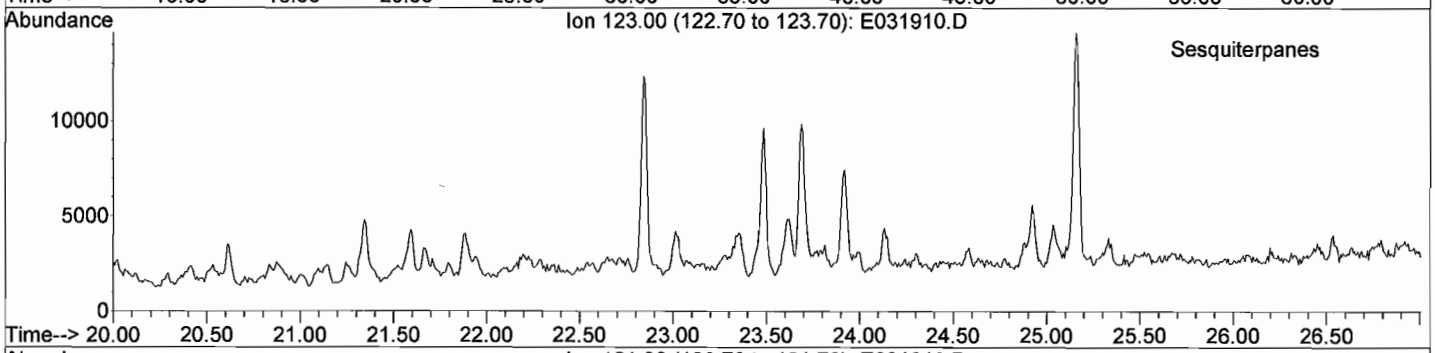
META Environmental, Inc.

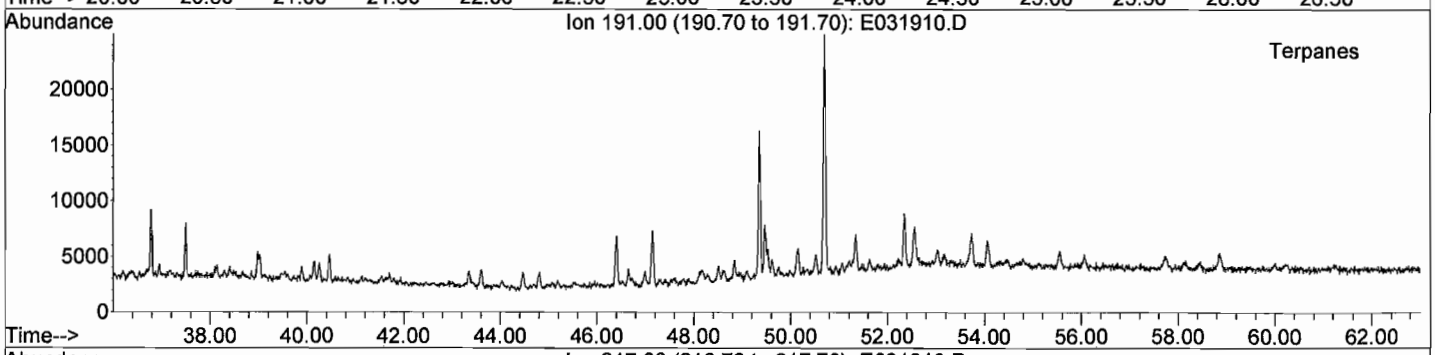
GC/MS EXTRACTED ION CHROMATOGRAM

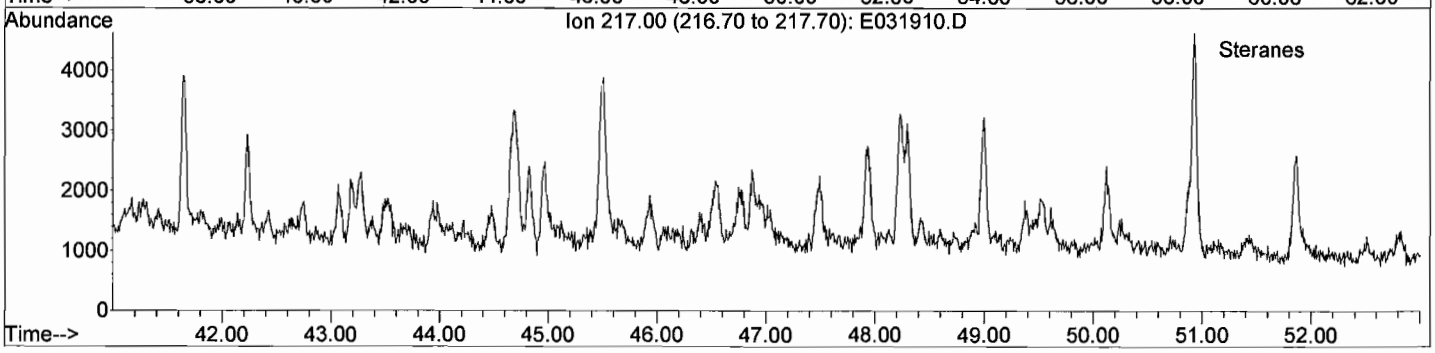
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR







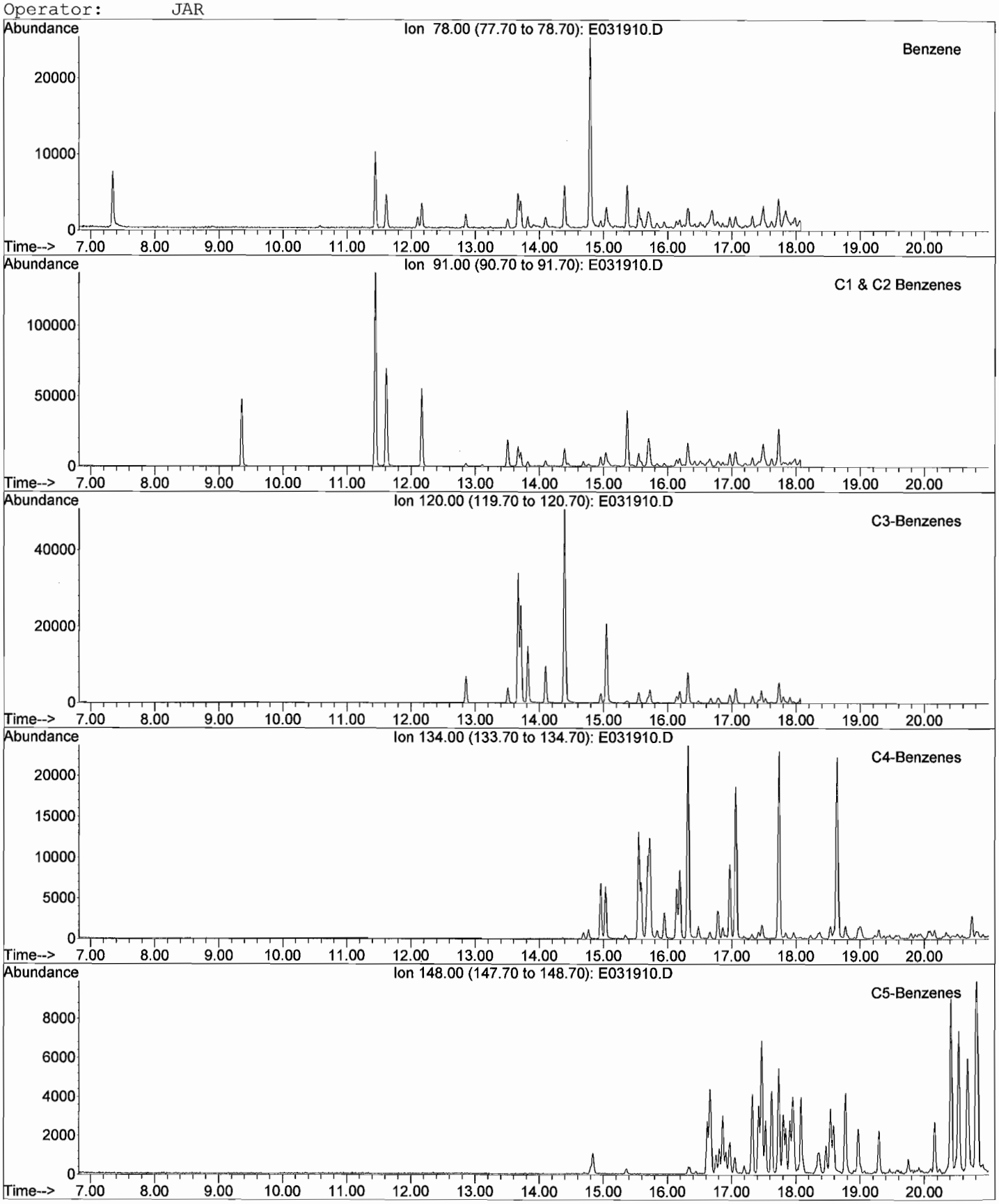




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

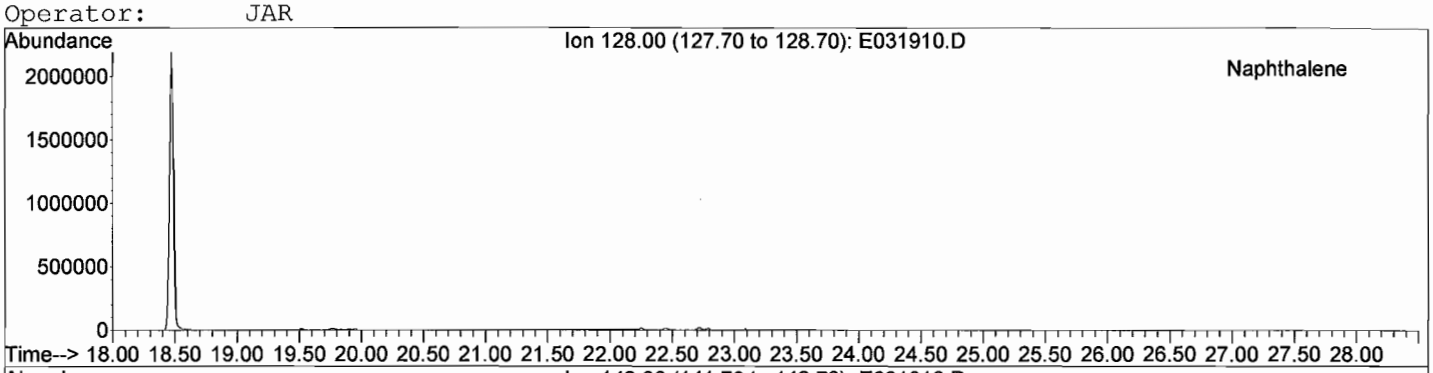
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR

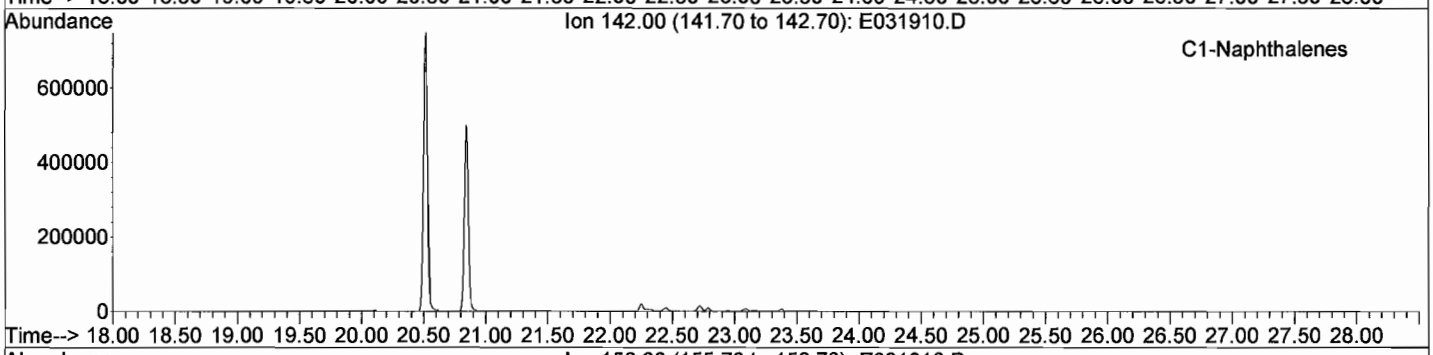


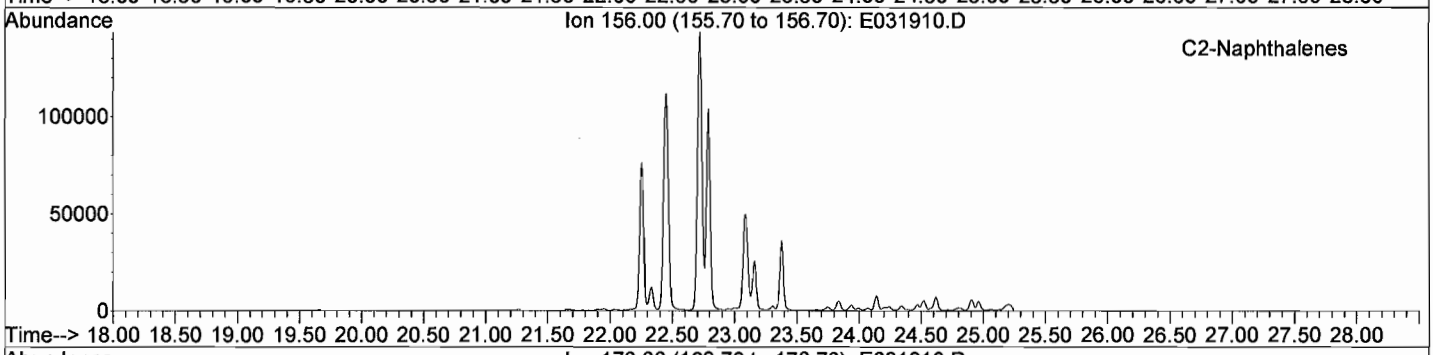
META Environmental, Inc.

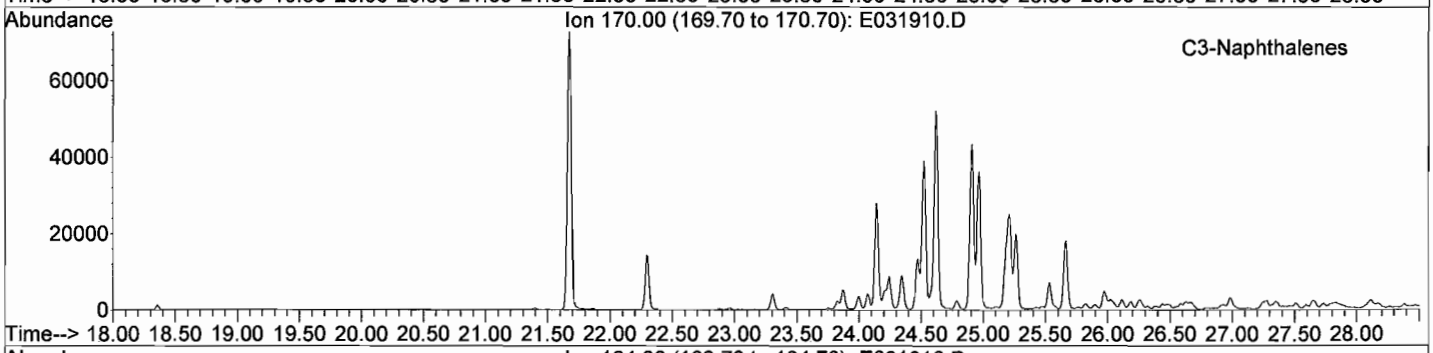
GC/MS EXTRACTED ION CHROMATOGRAM

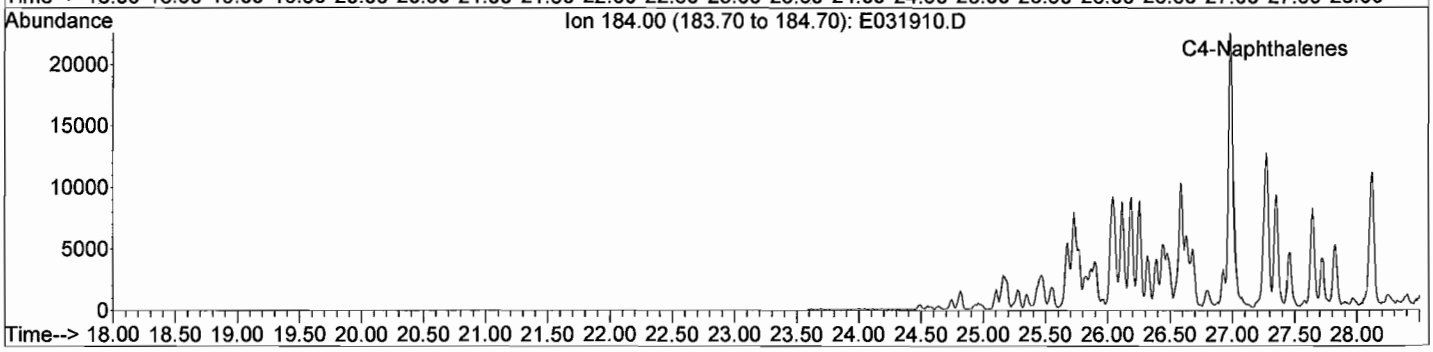
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR







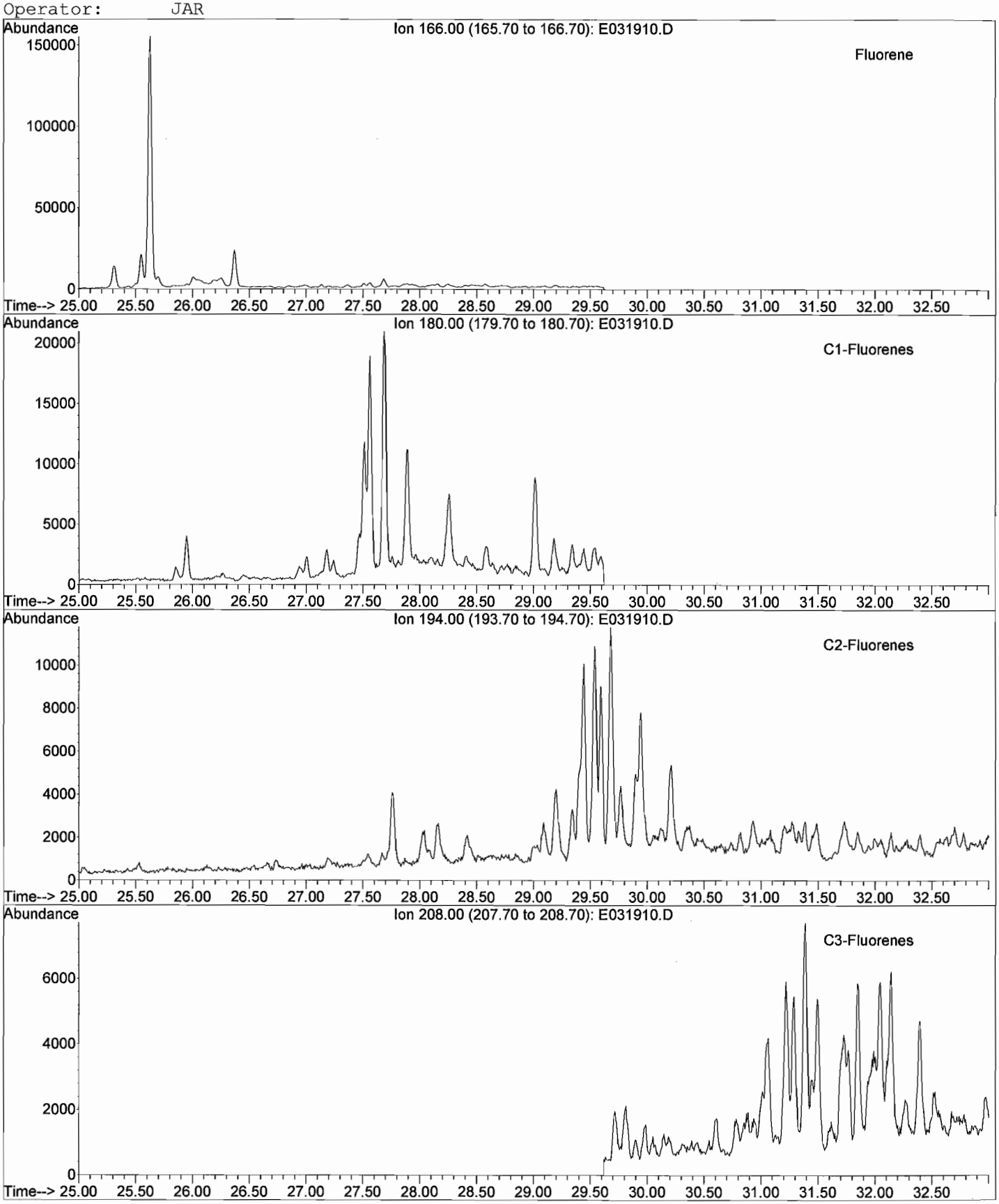




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

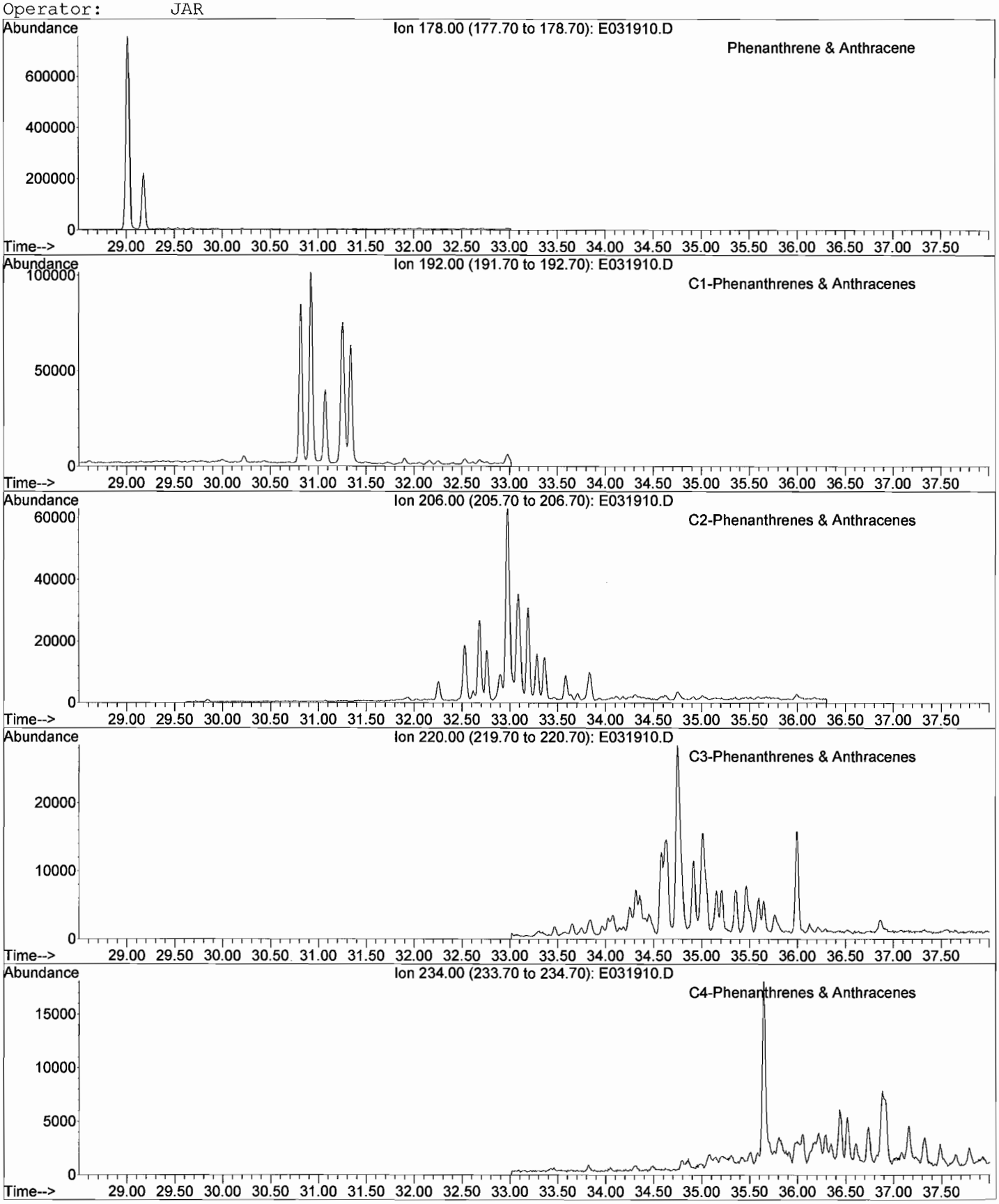
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

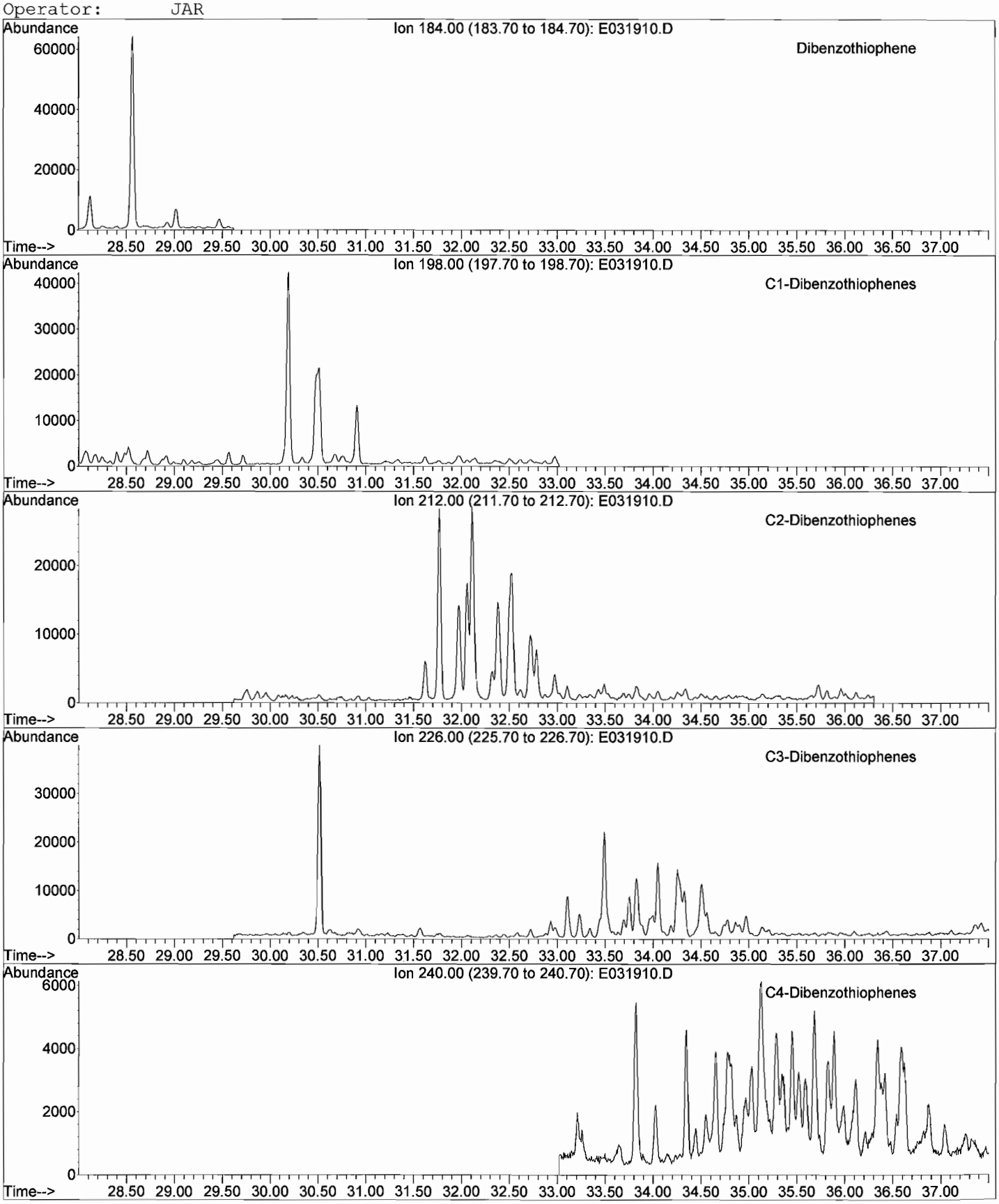
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

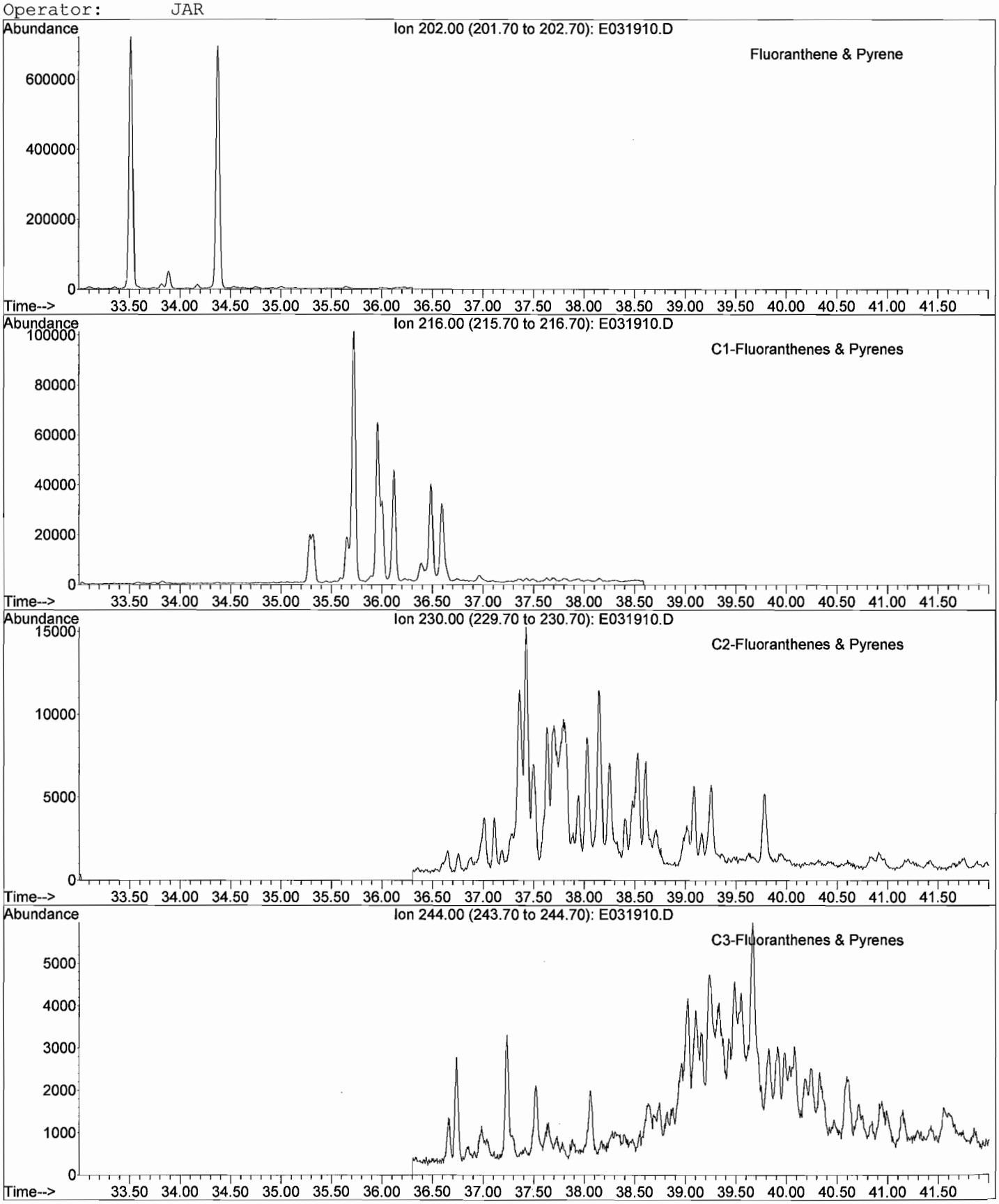
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

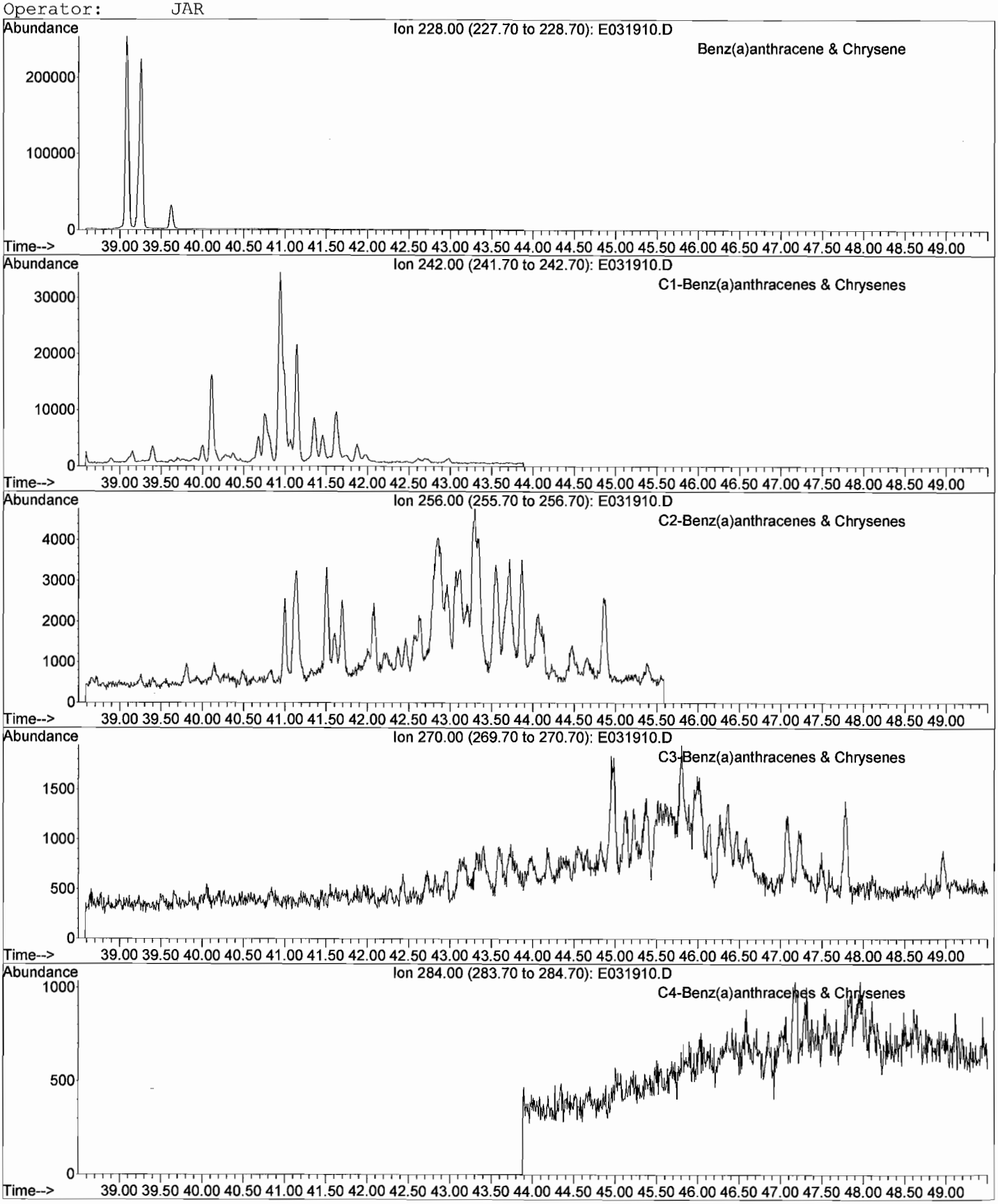
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

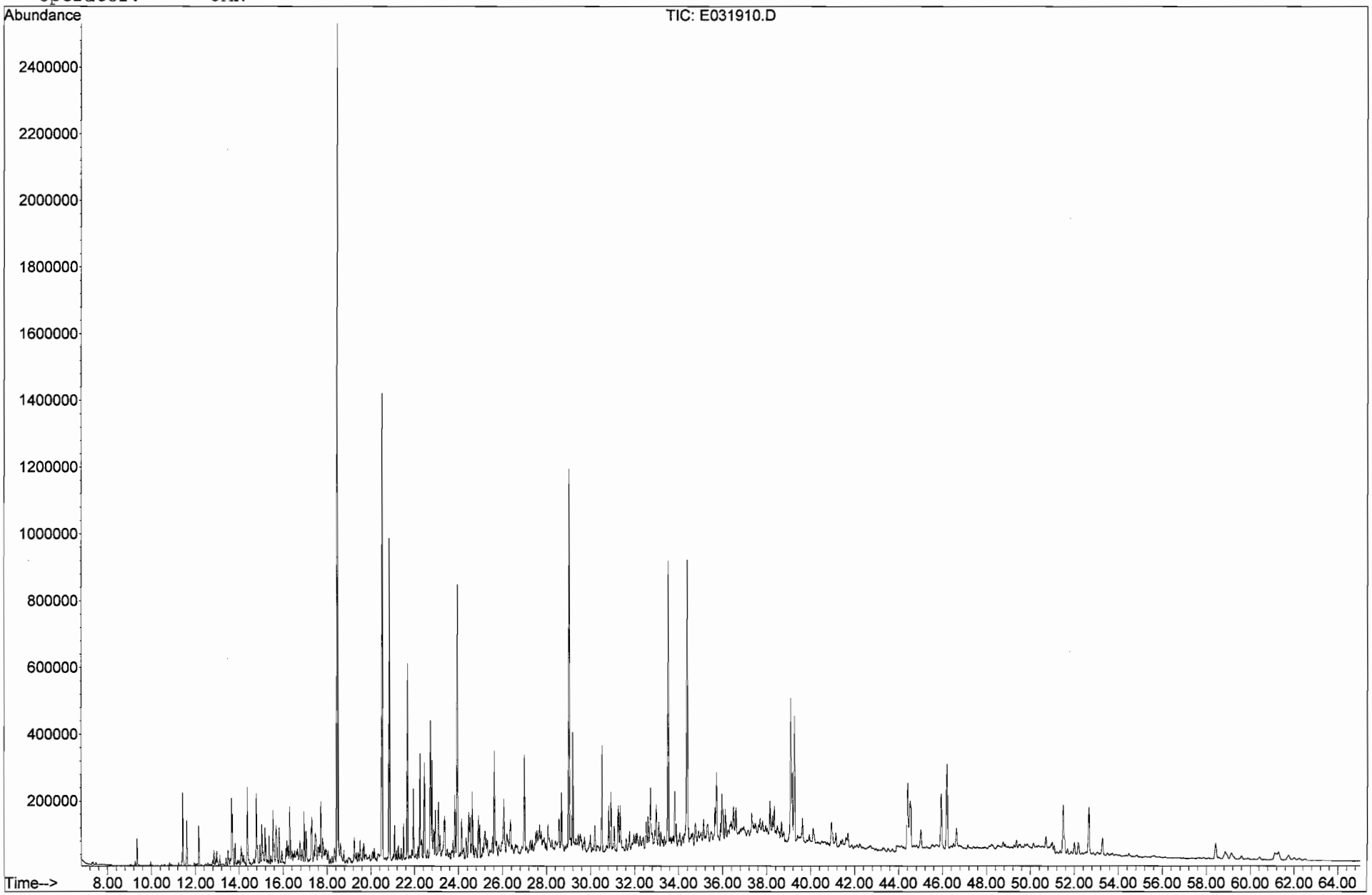
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

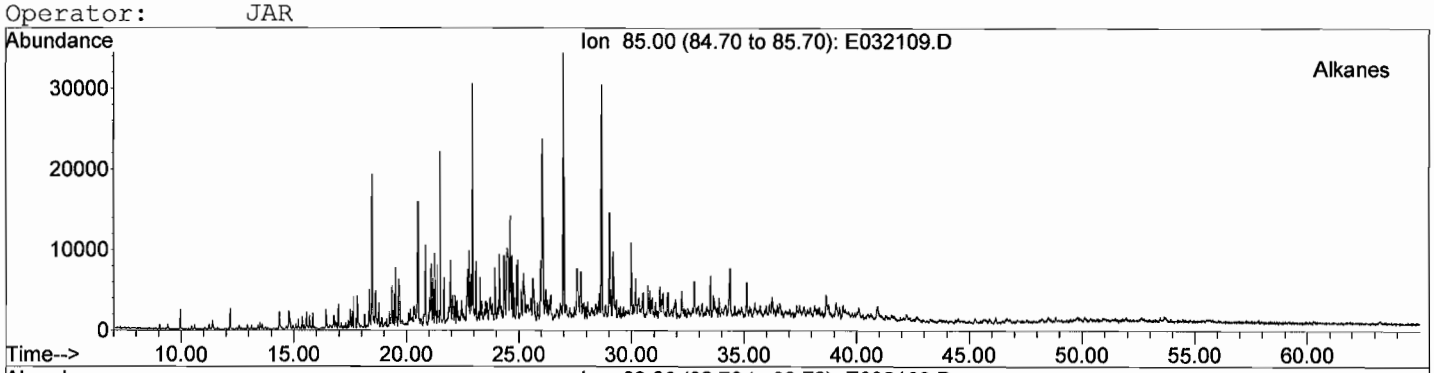
File: J:\1\DATA\E070319\E031910.D
Date Acquired: 20 Mar 2007 2:11 am
Method File: 4008SIM2.M
Sample Name: BR070313-04-D
Misc Info: CRAW-CSB022-001 (9.5'-10.0')
Operator: JAR

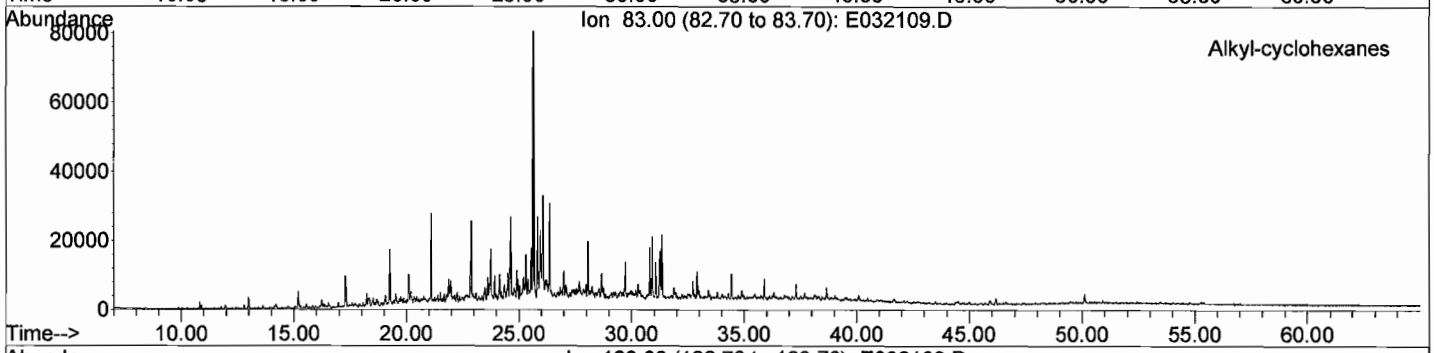


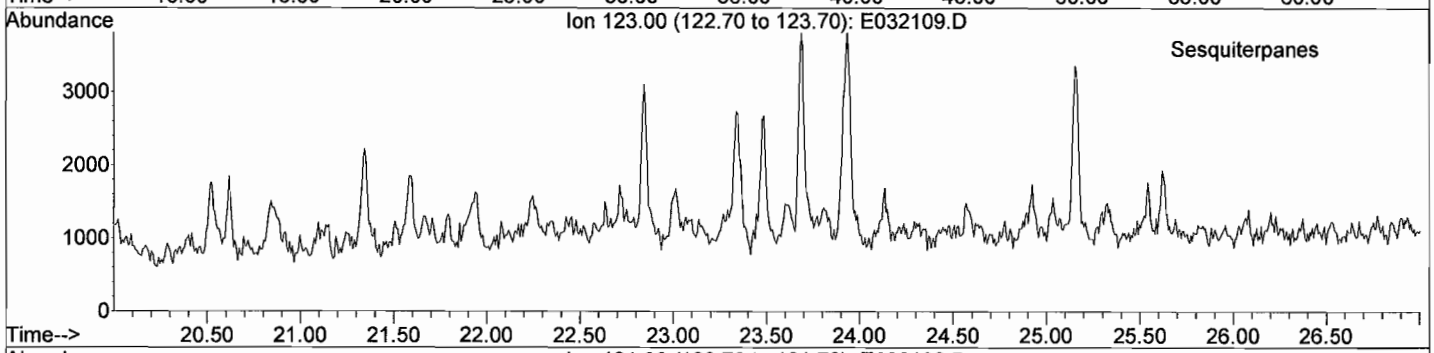
META Environmental, Inc.

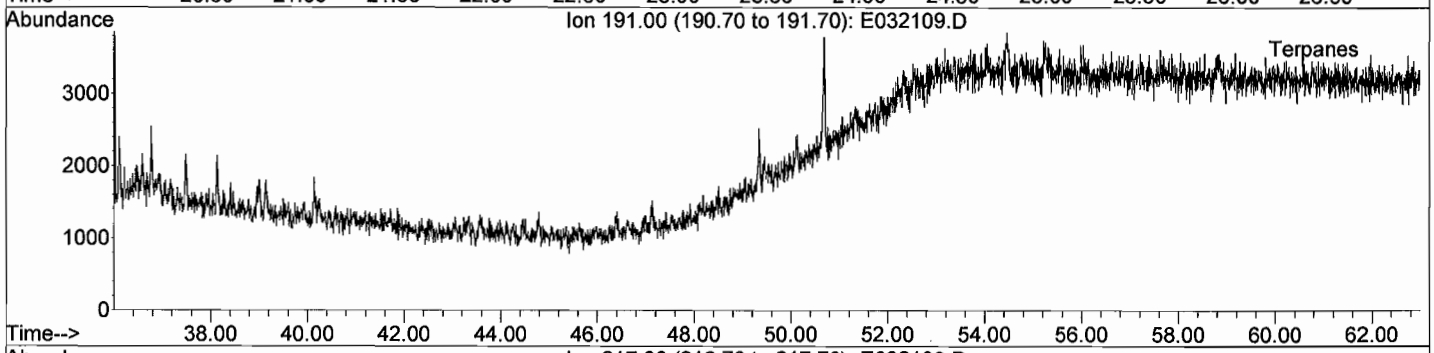
GC/MS EXTRACTED ION CHROMATOGRAM

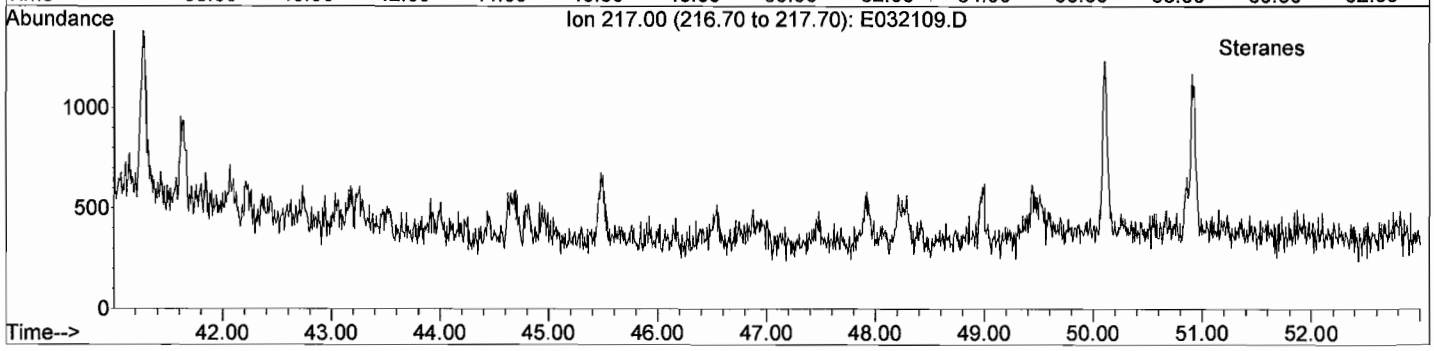
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR







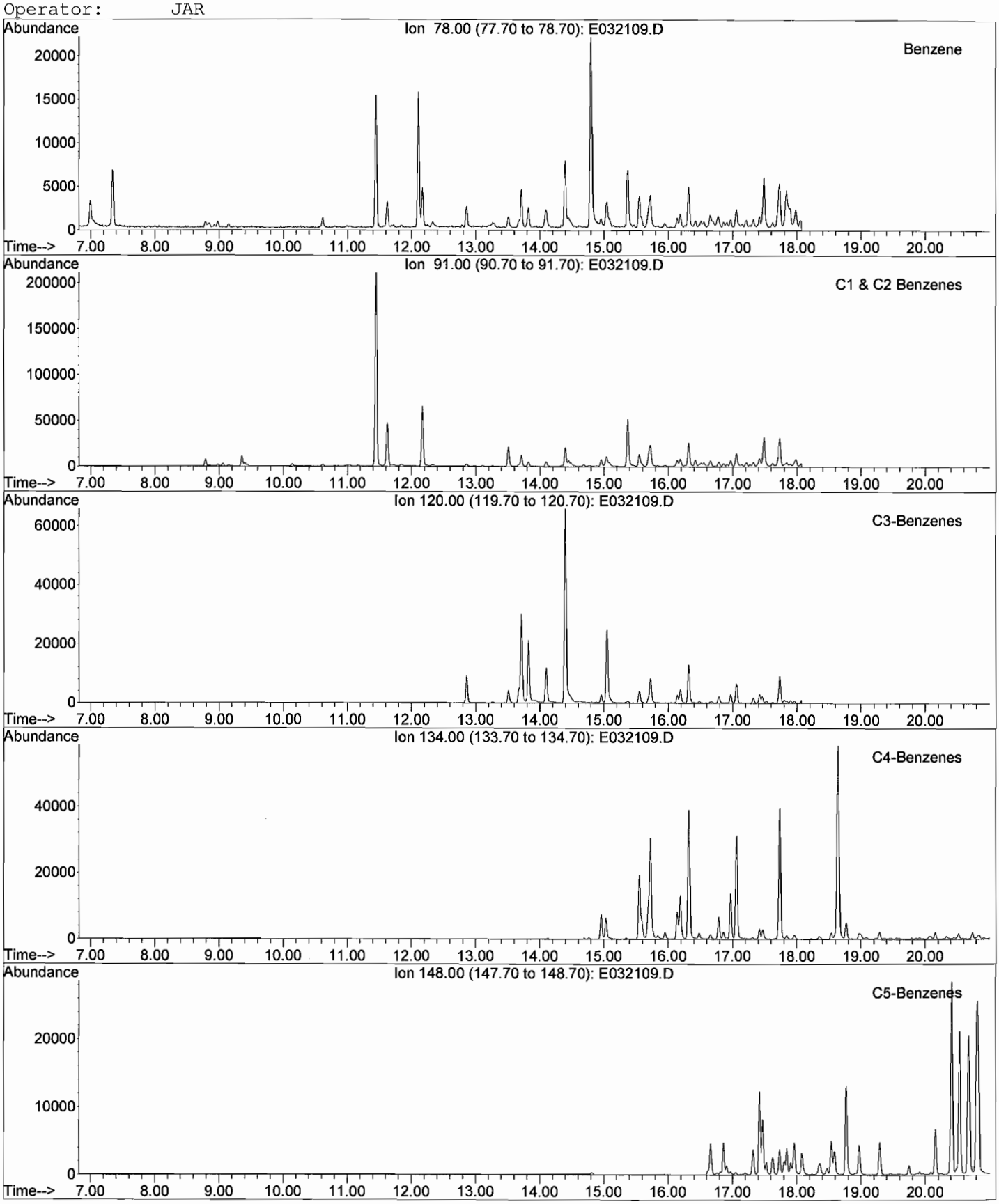




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

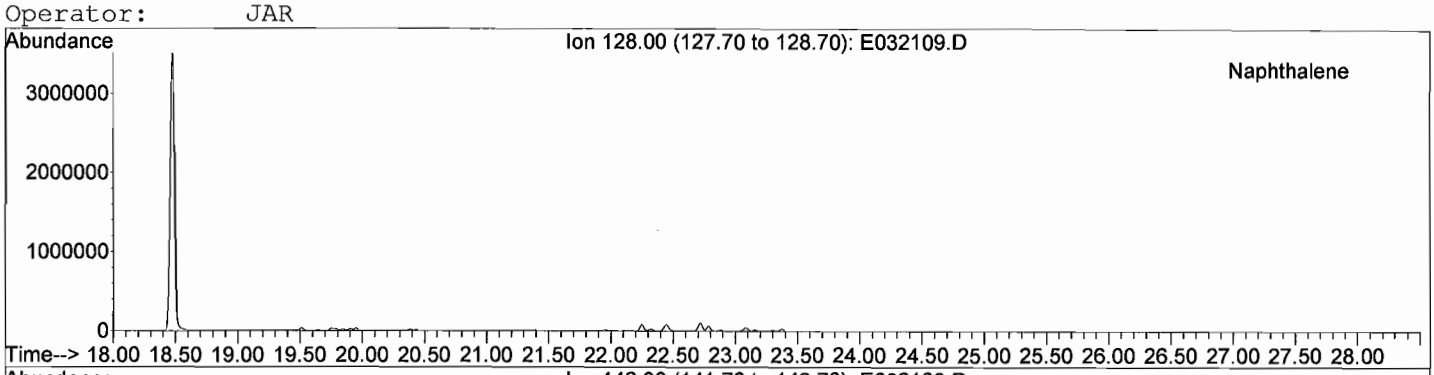
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR

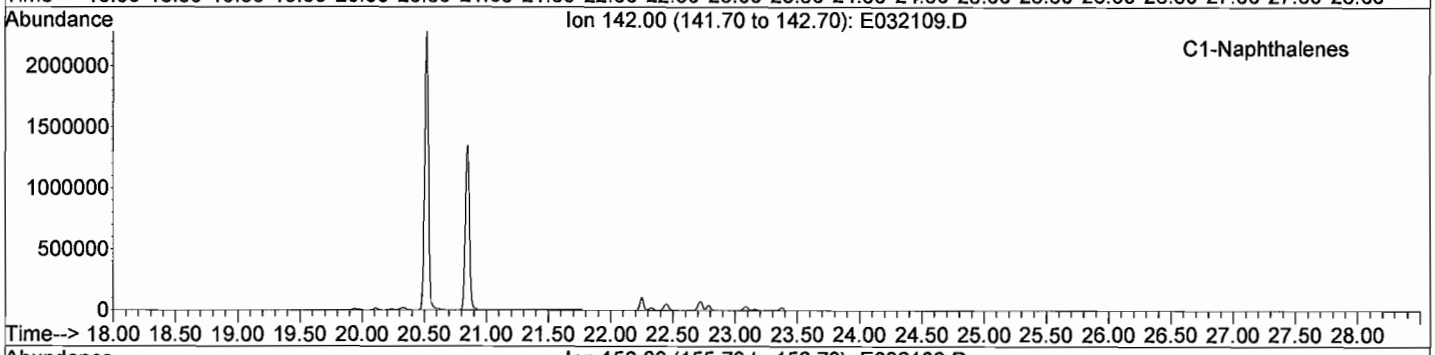


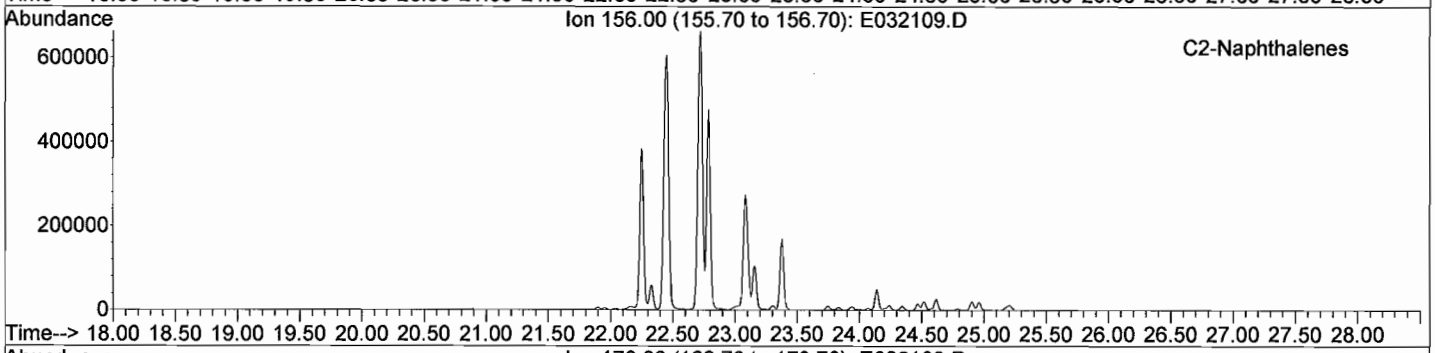
META Environmental, Inc.

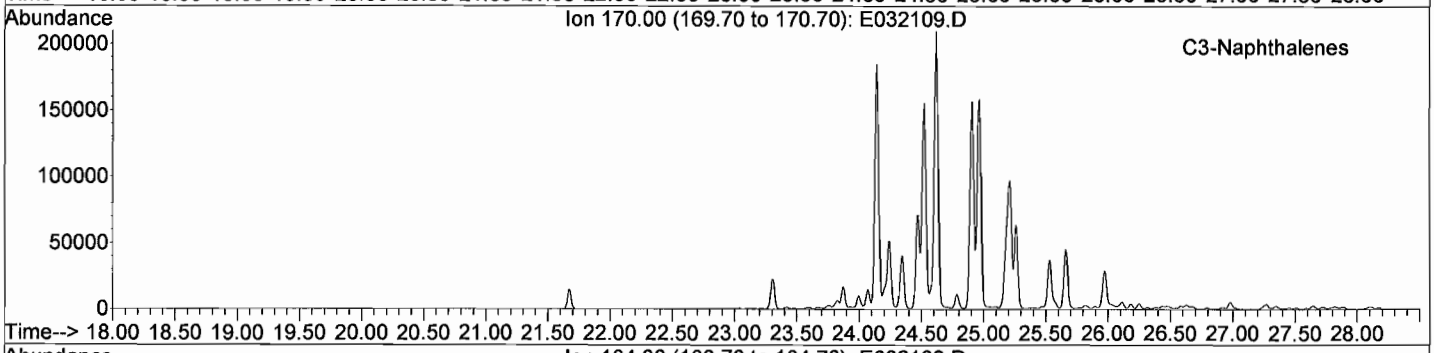
GC/MS EXTRACTED ION CHROMATOGRAM

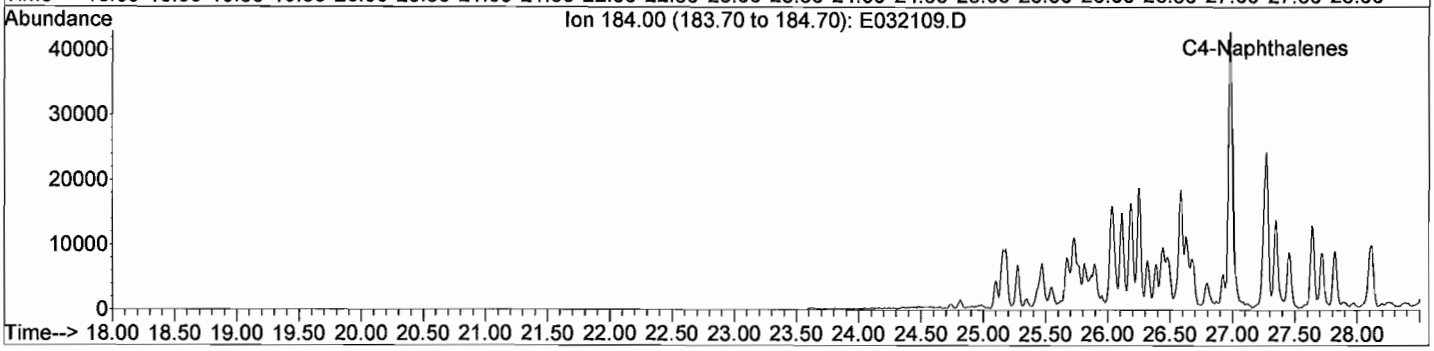
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR







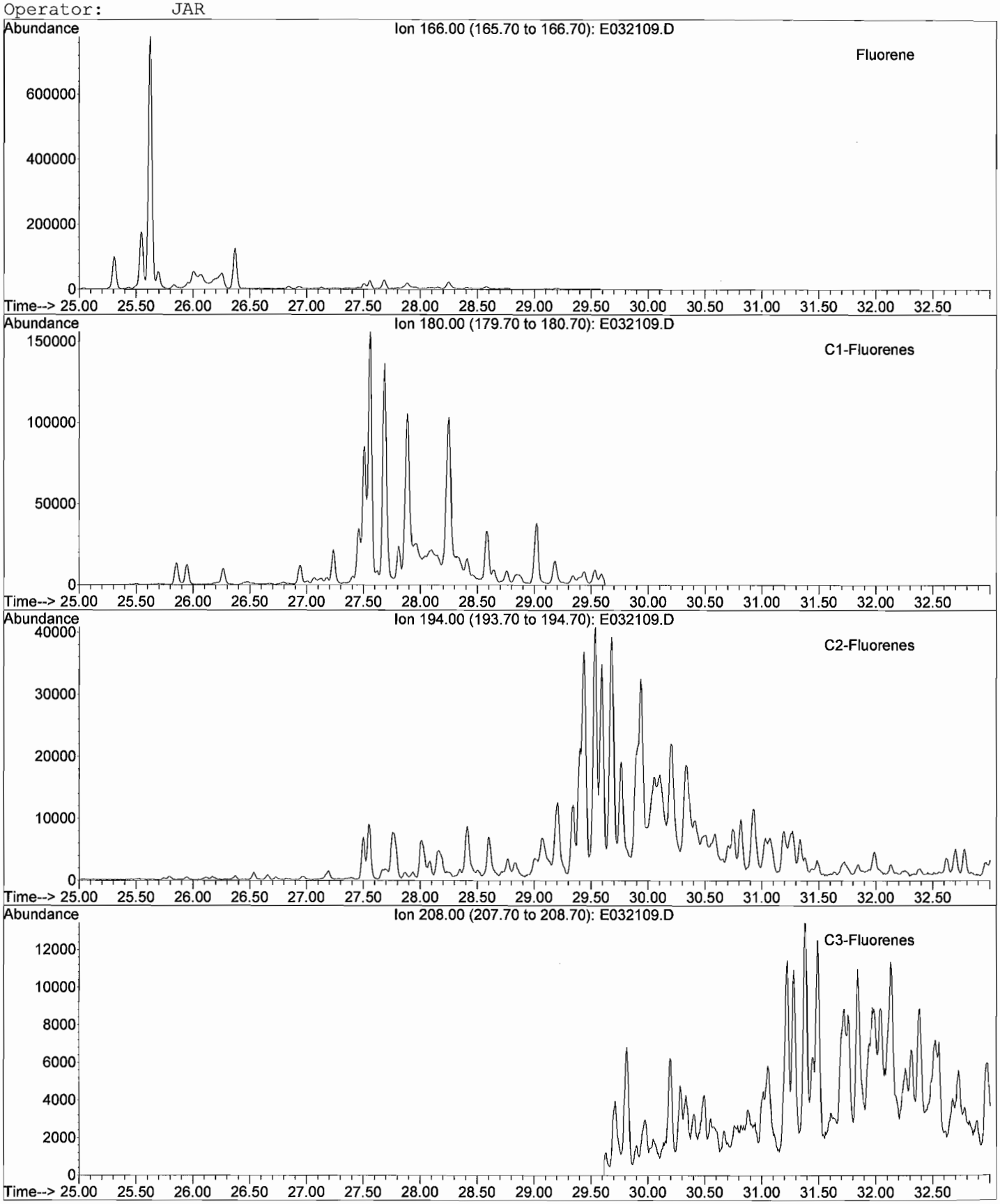




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

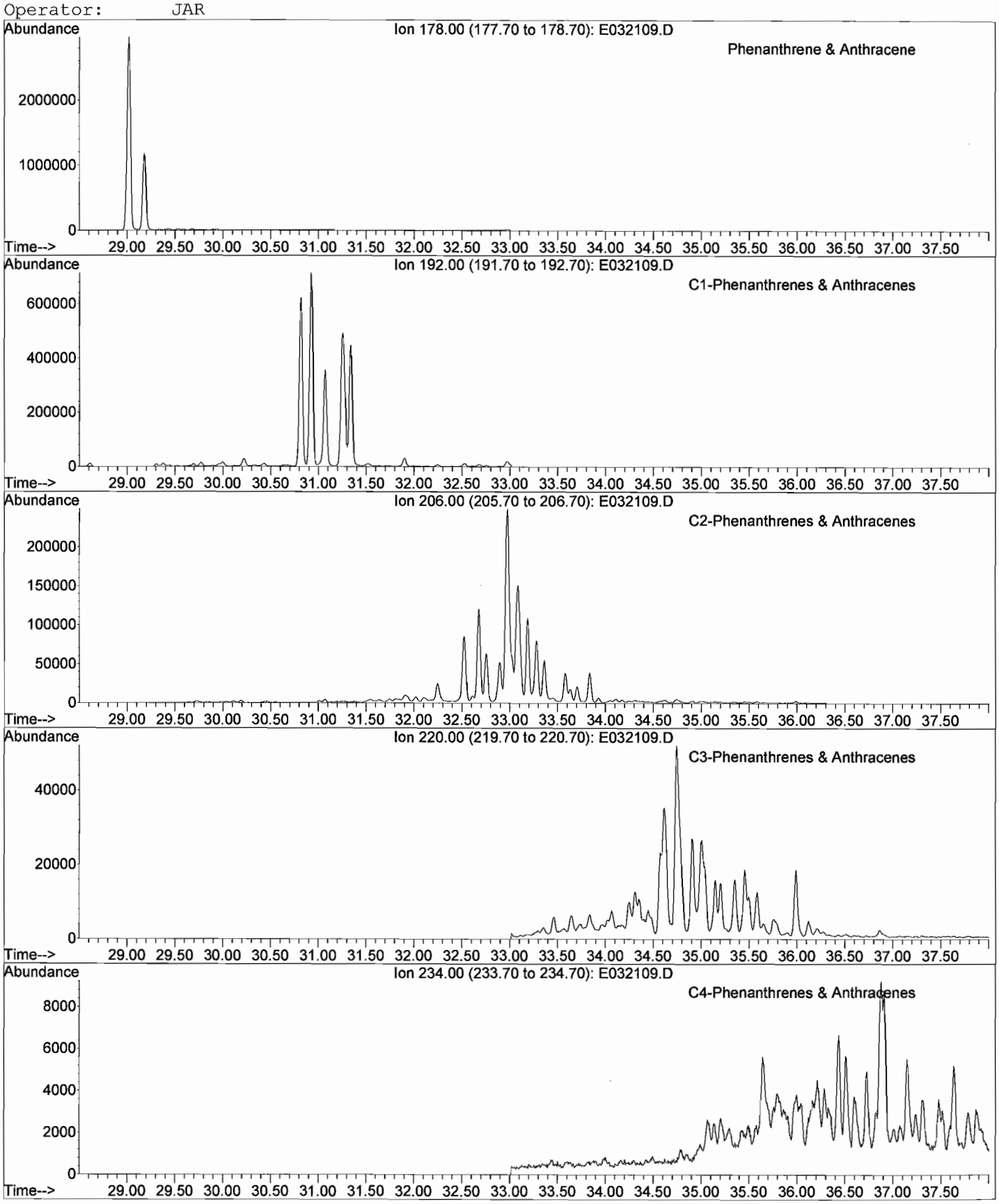
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

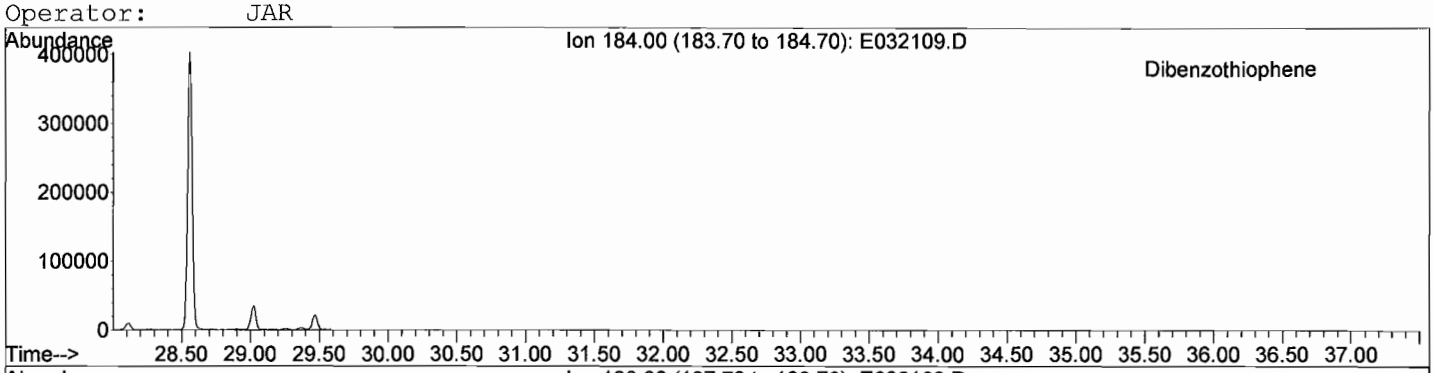
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR

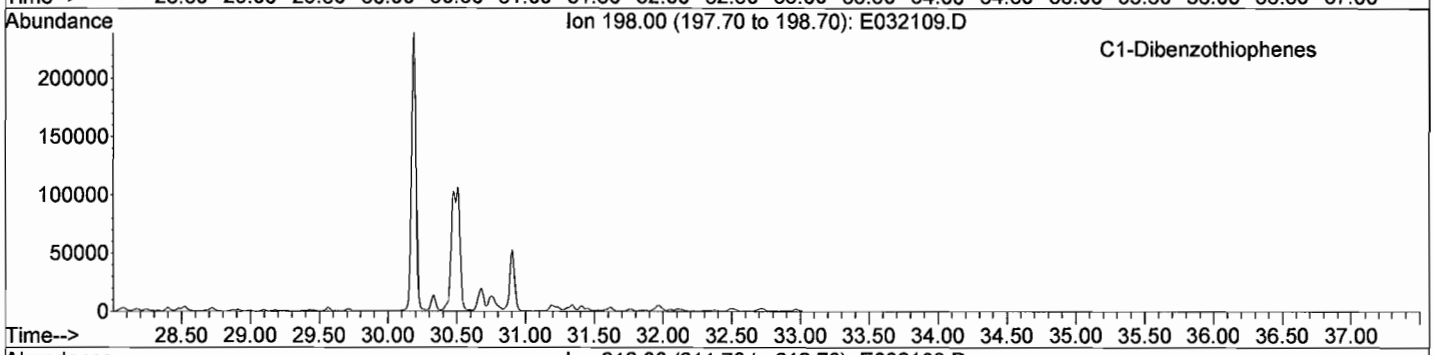


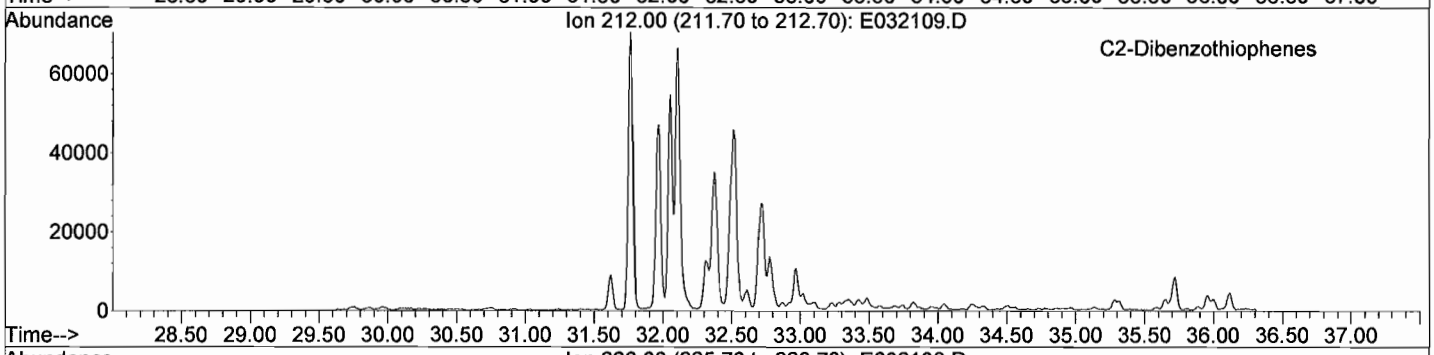
META Environmental, Inc.

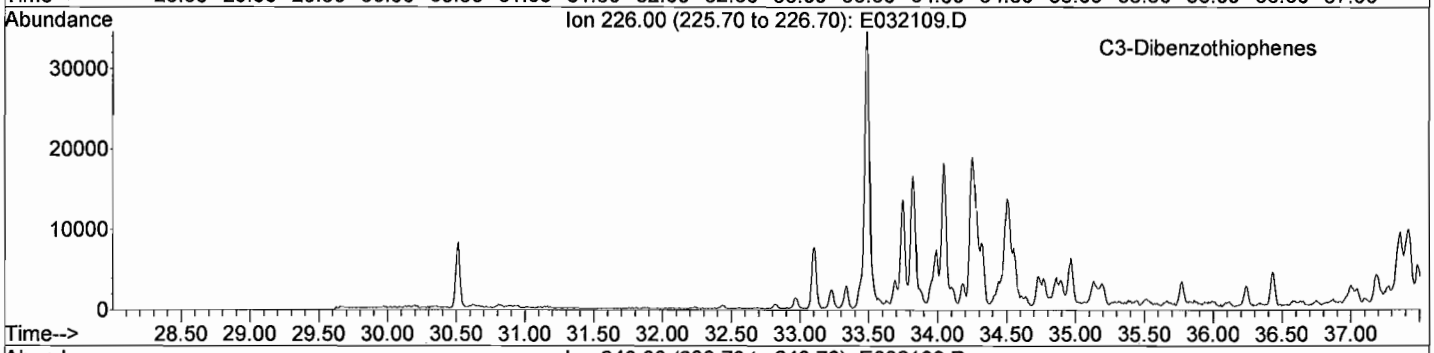
GC/MS EXTRACTED ION CHROMATOGRAM

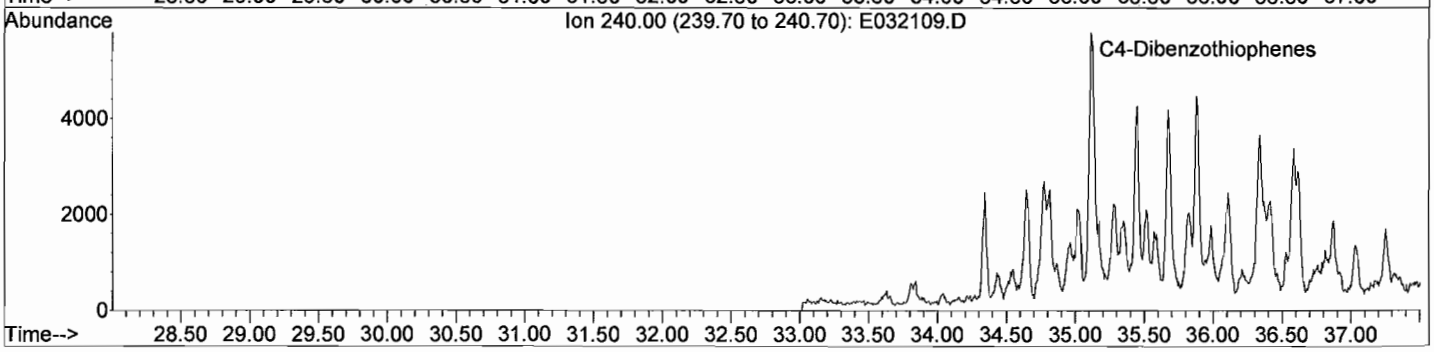
File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR







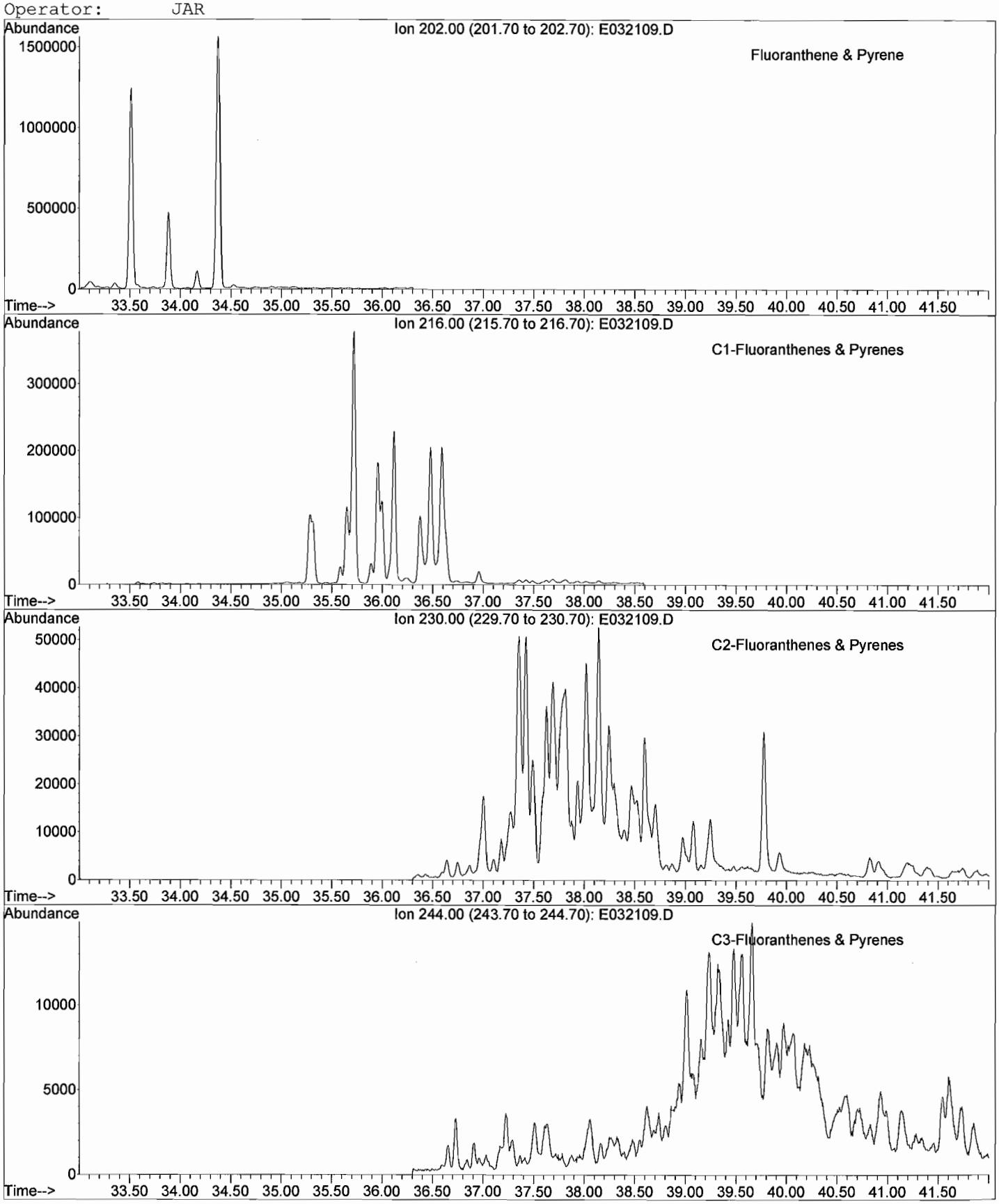




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
Method File: 4008SIM2.M
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
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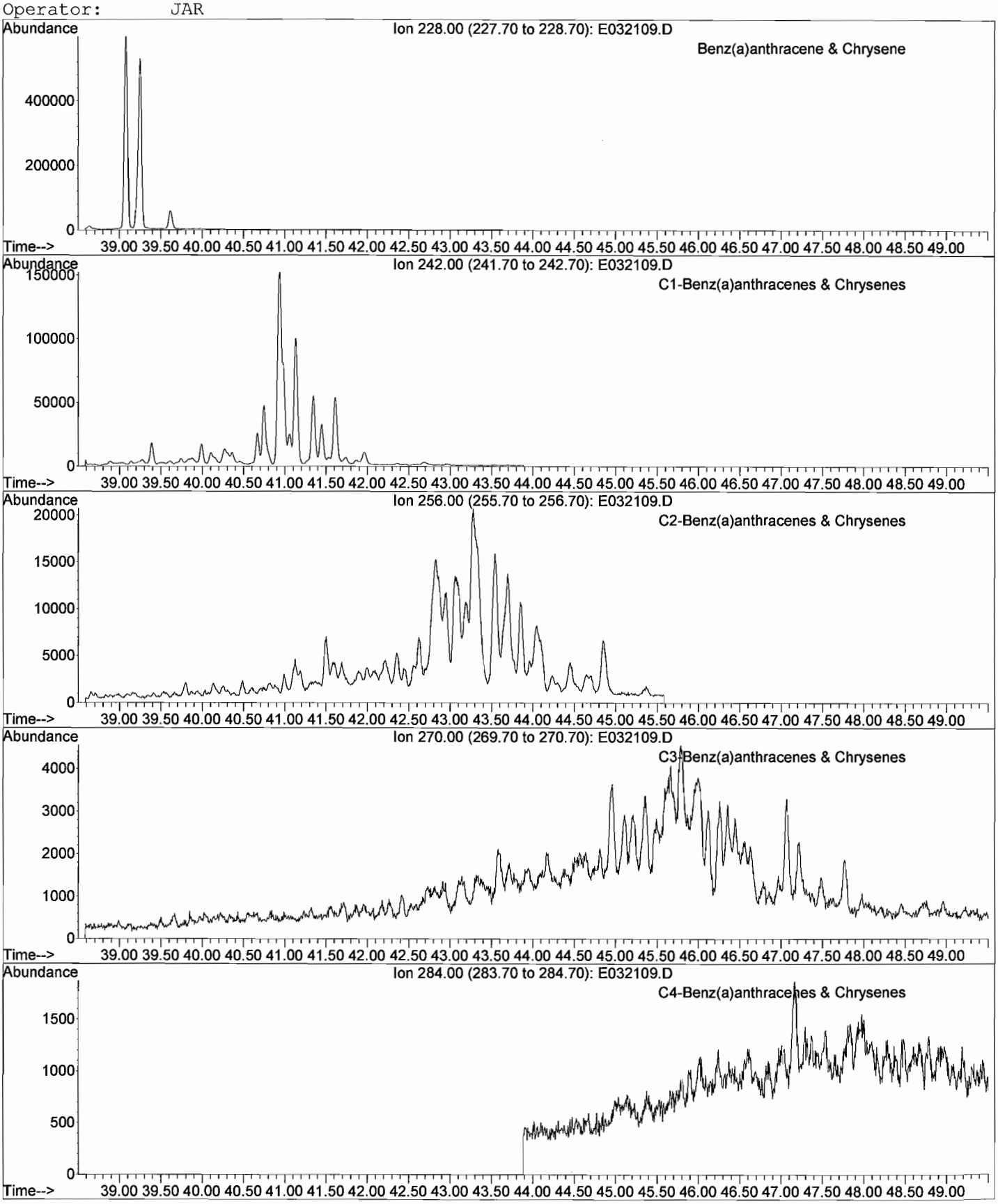
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032109.D
Date Acquired: 21 Mar 2007 11:56 pm
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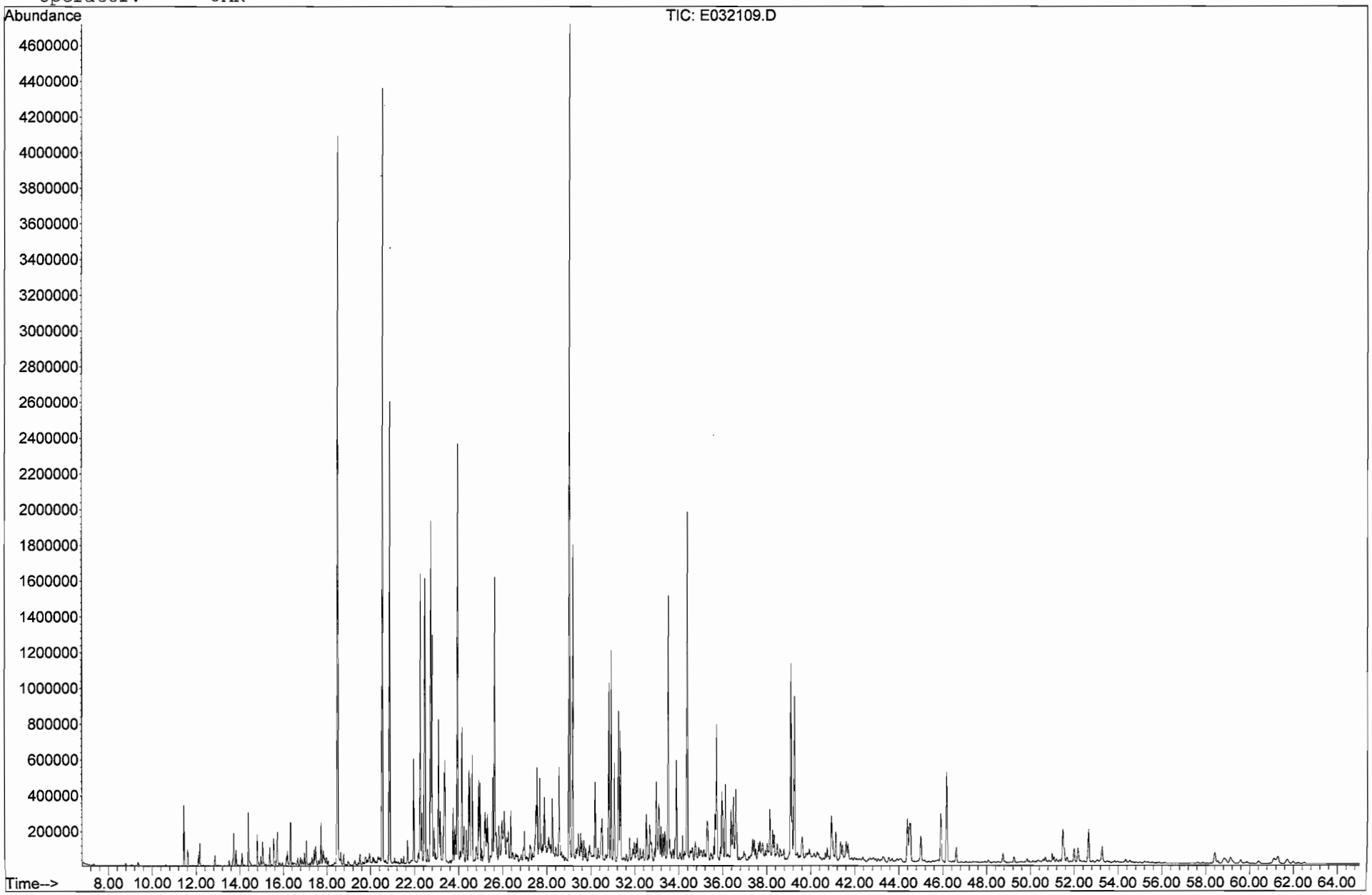
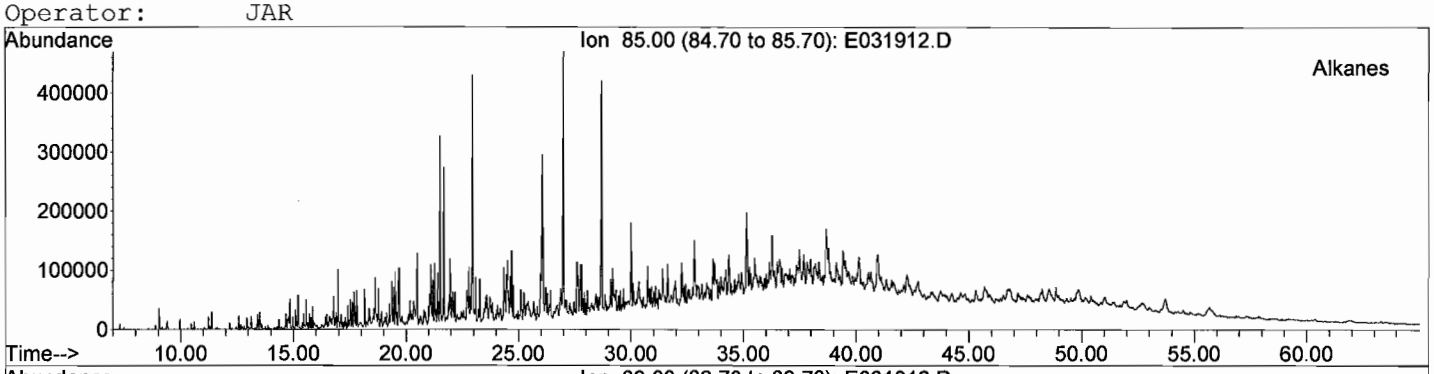
Sample Name: BR070313-05-D3
Misc Info: CRAW-CSB022-002 (10.5'-11.6')
Operator: JAR

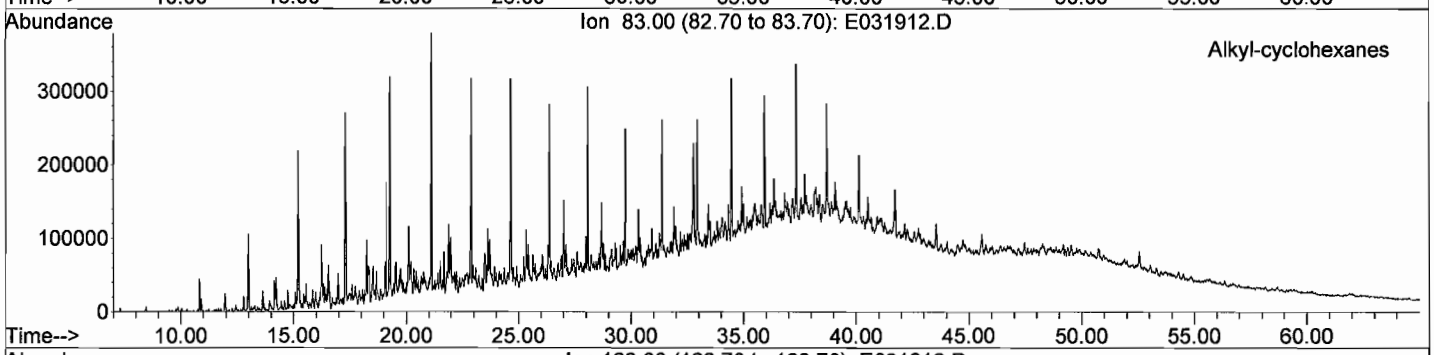


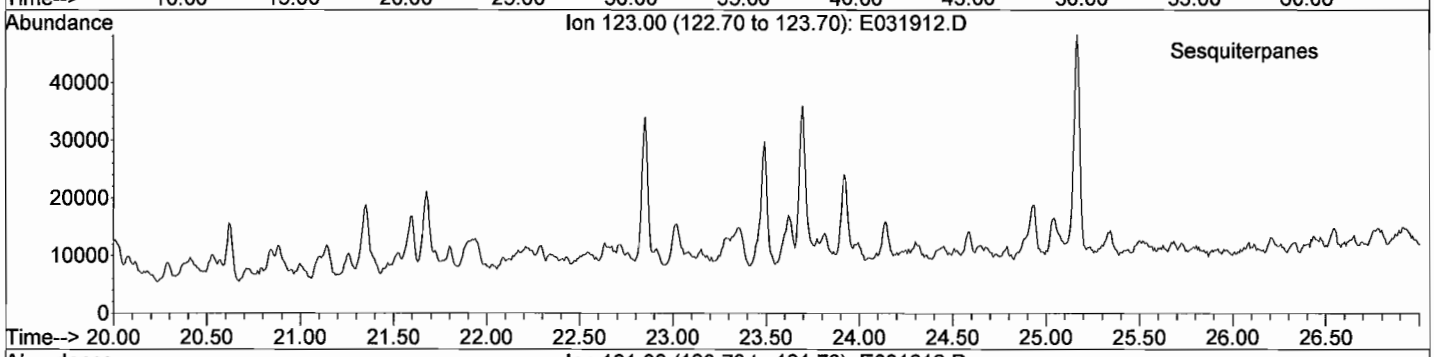
META Environmental, Inc.

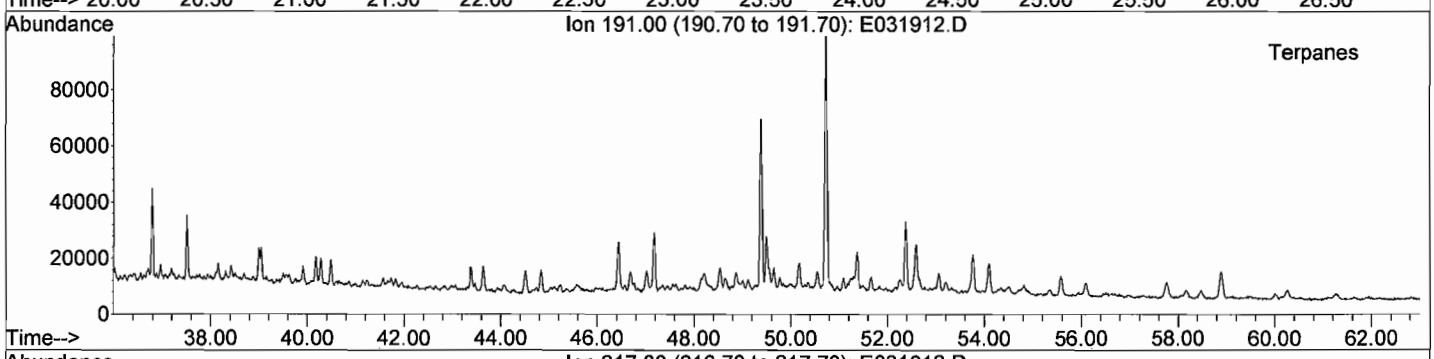
GC/MS EXTRACTED ION CHROMATOGRAM

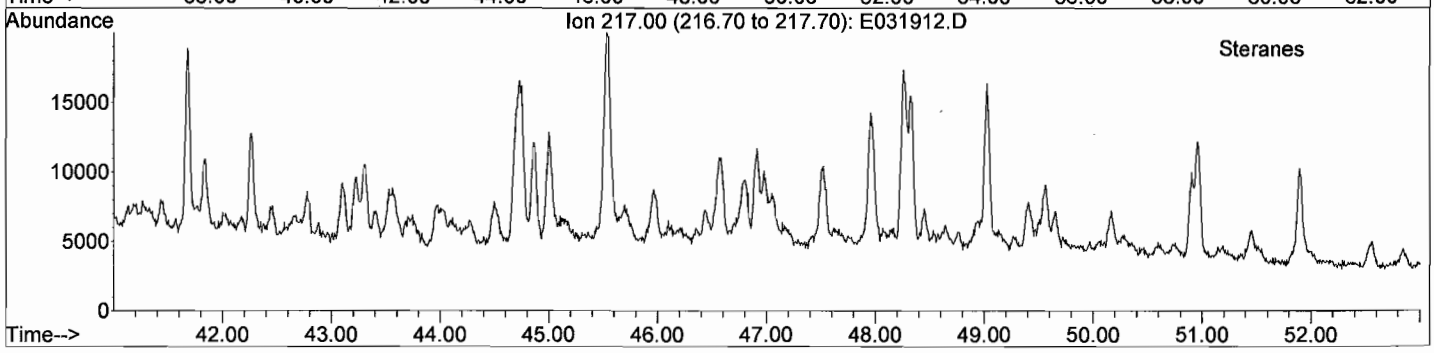
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR







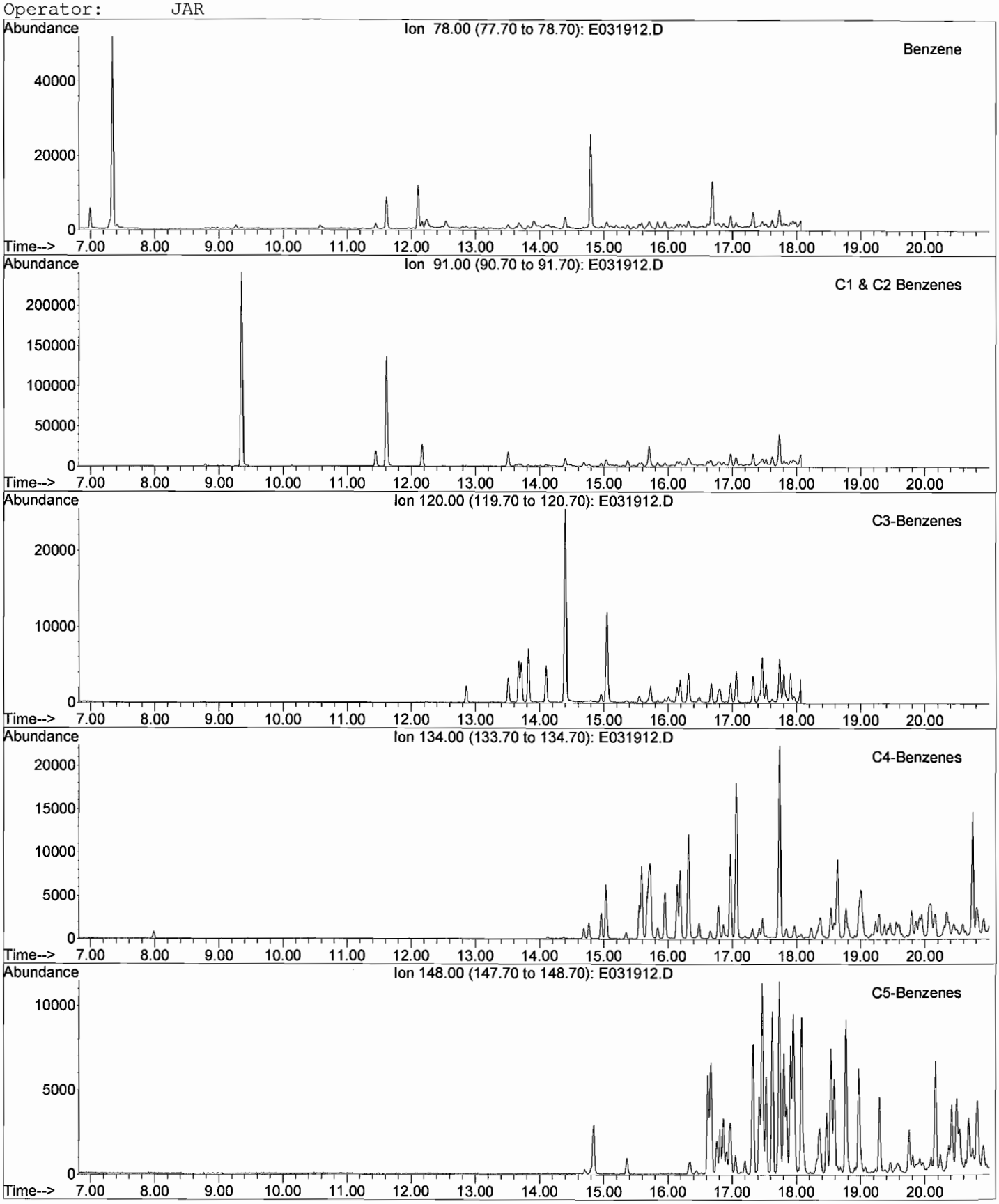




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

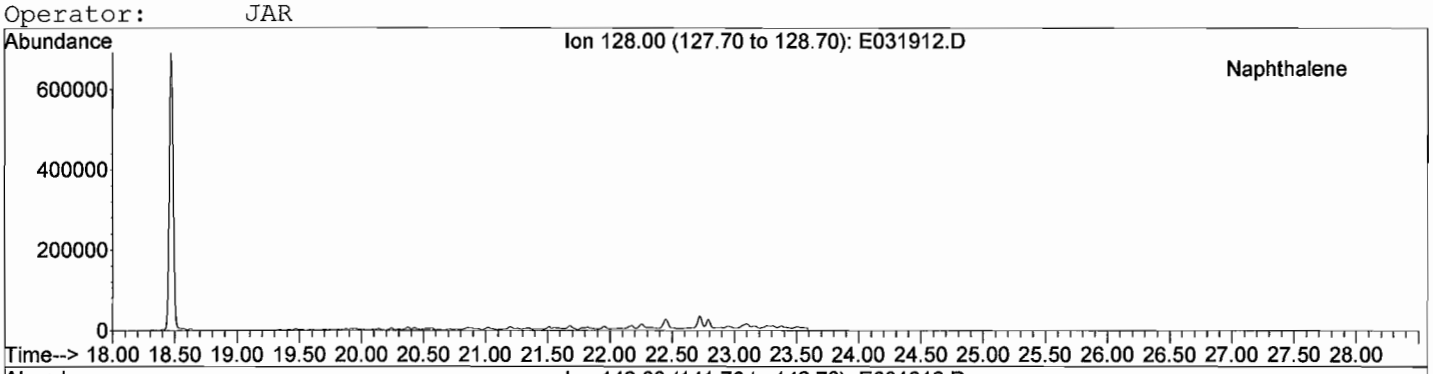
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR

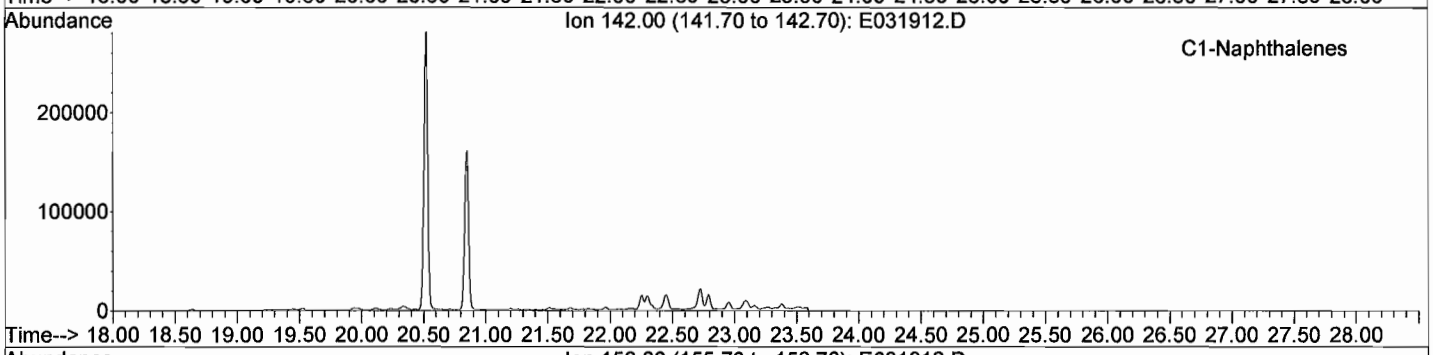


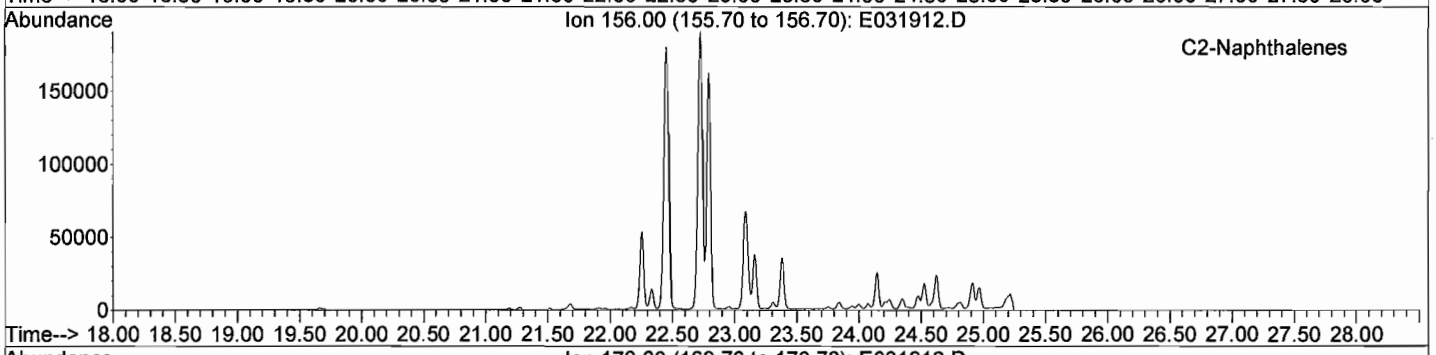
META Environmental, Inc.

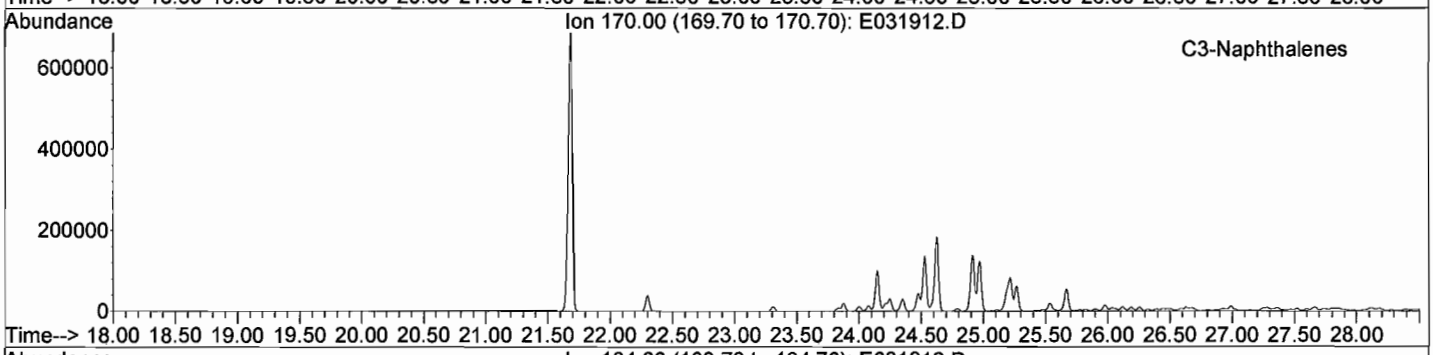
GC/MS EXTRACTED ION CHROMATOGRAM

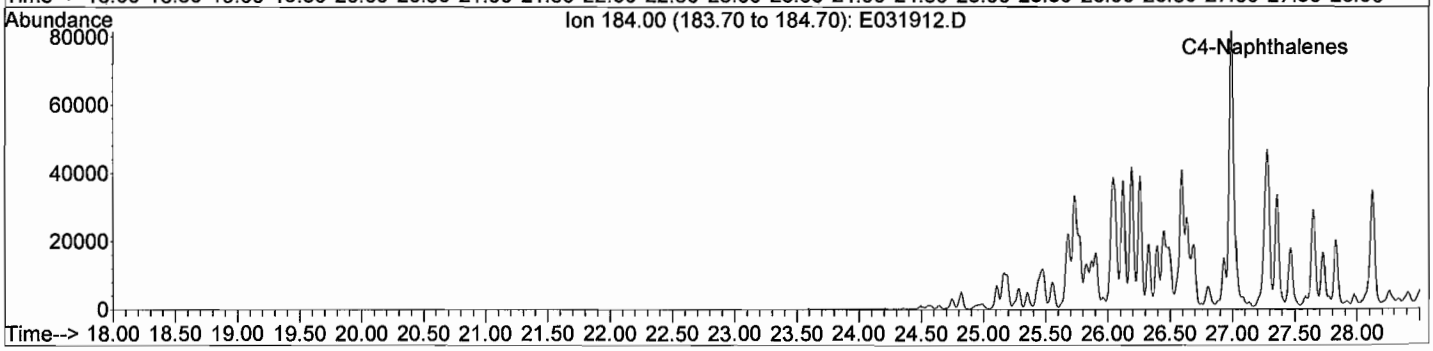
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR







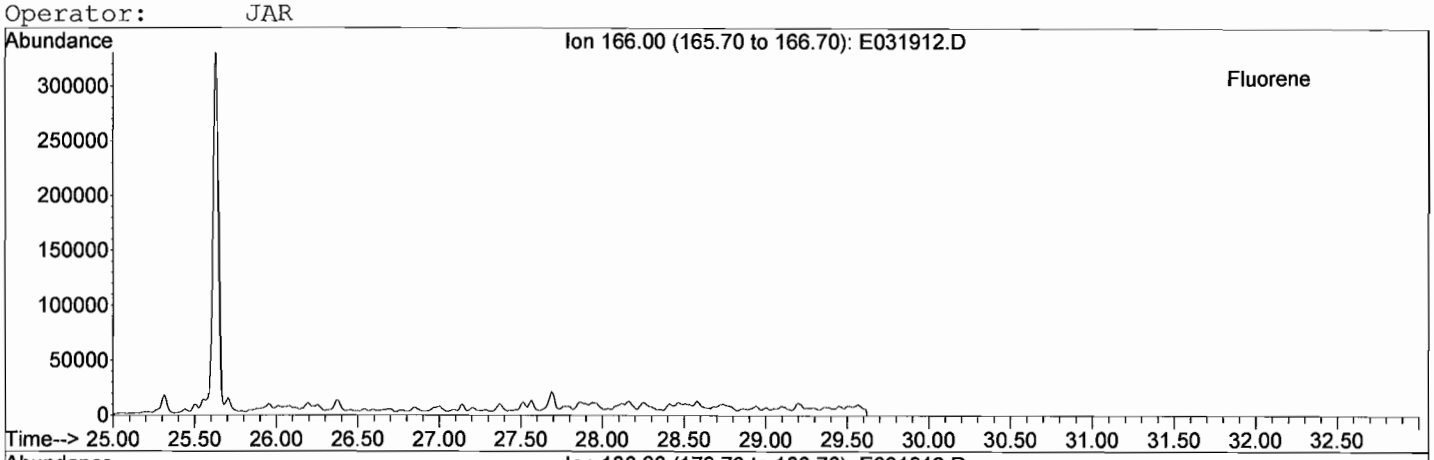


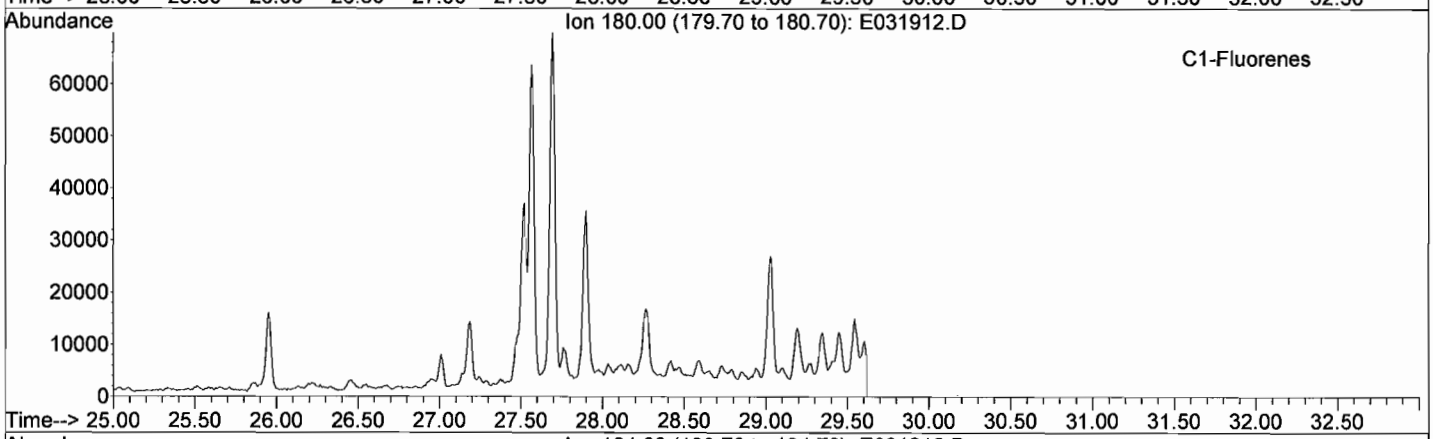


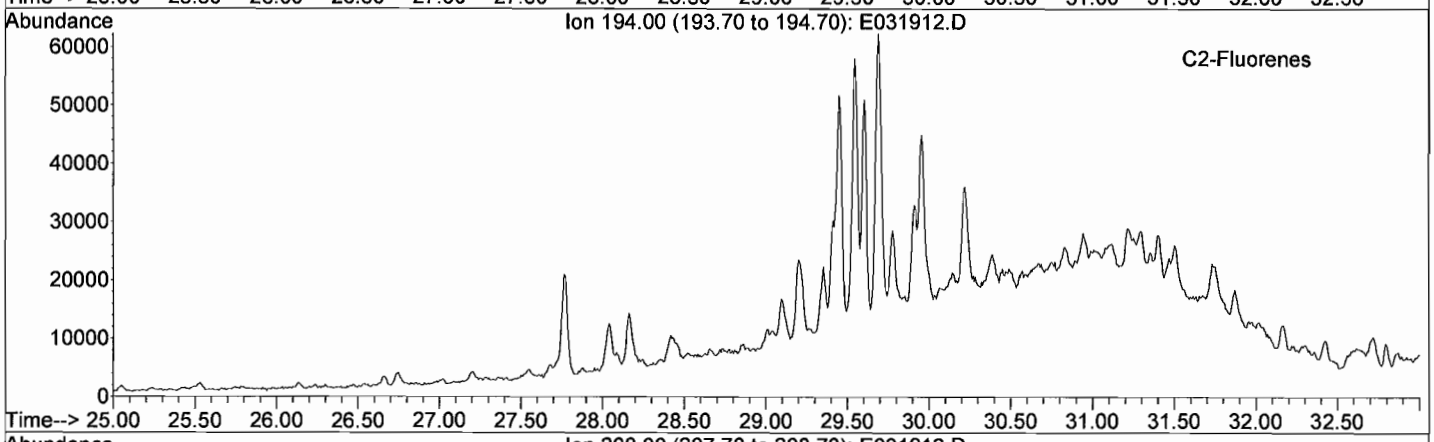
META Environmental, Inc.

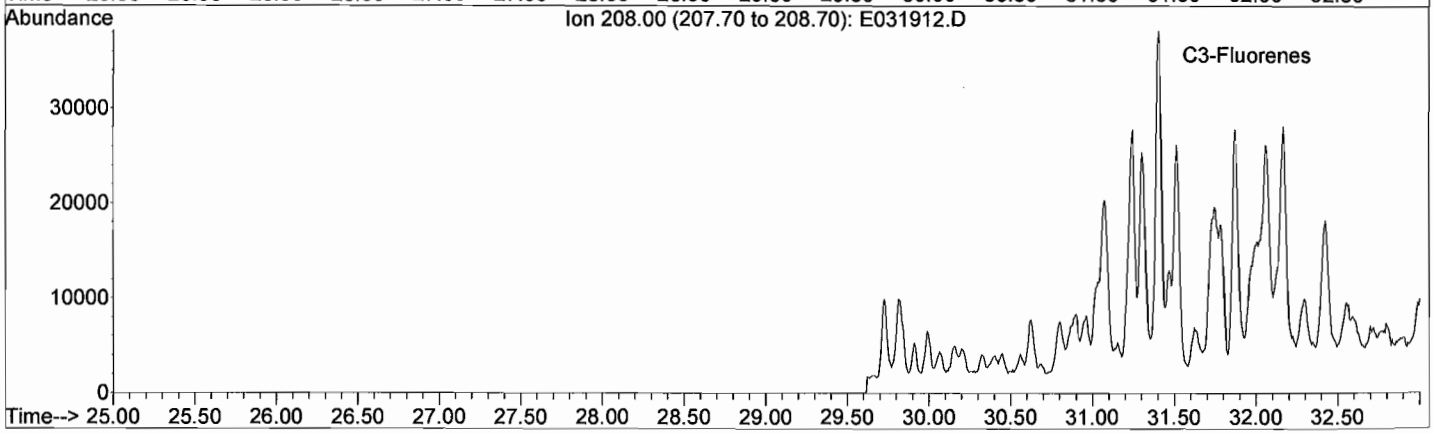
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR





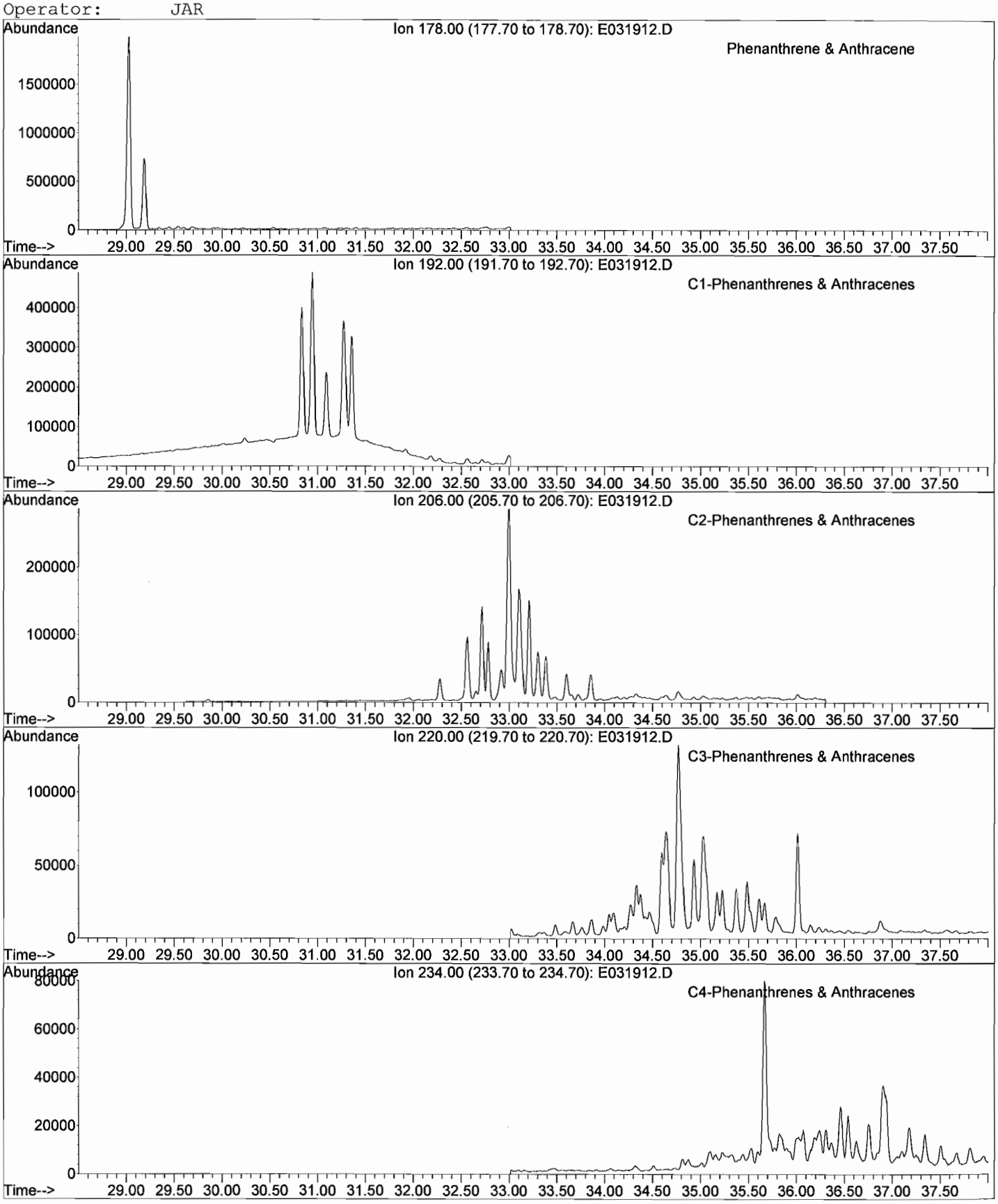




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

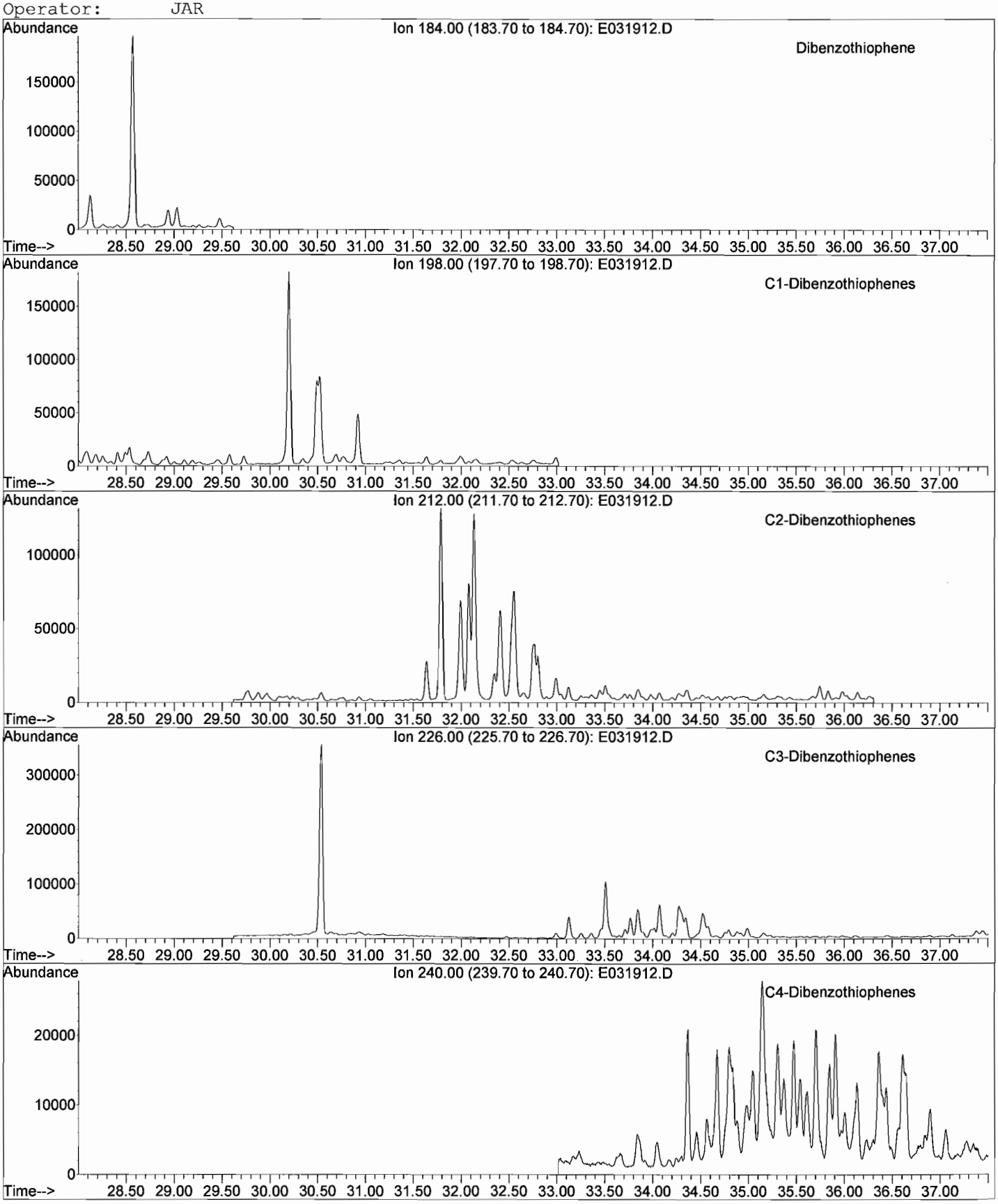
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

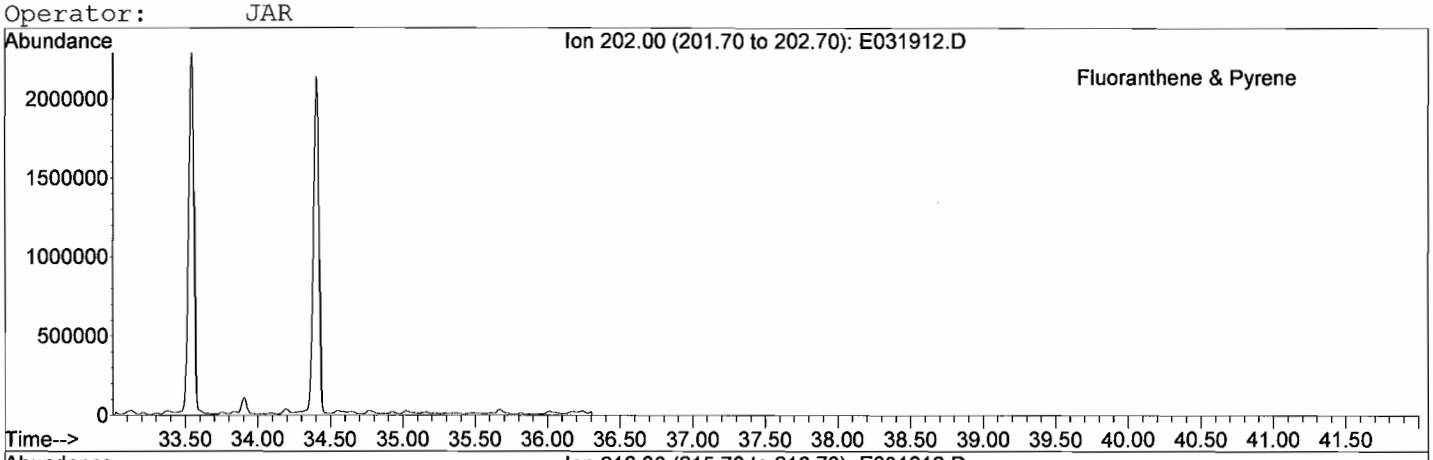
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR

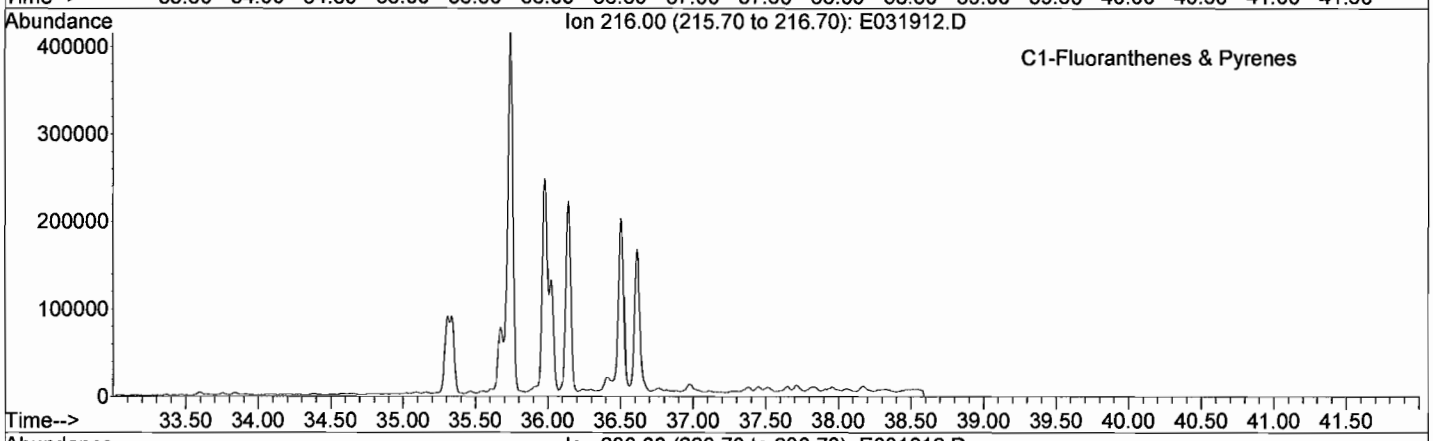


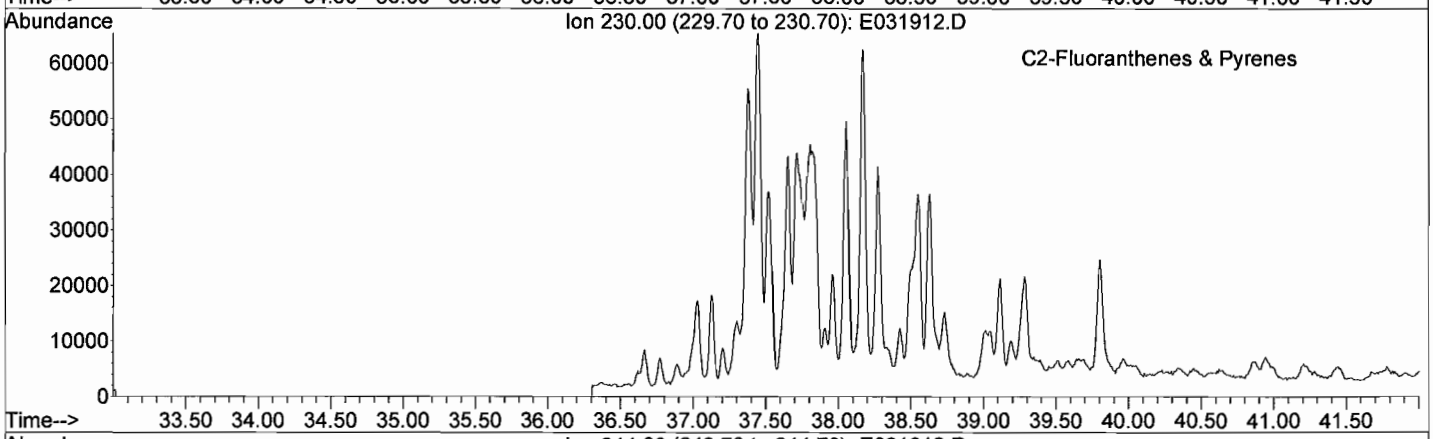
META Environmental, Inc.

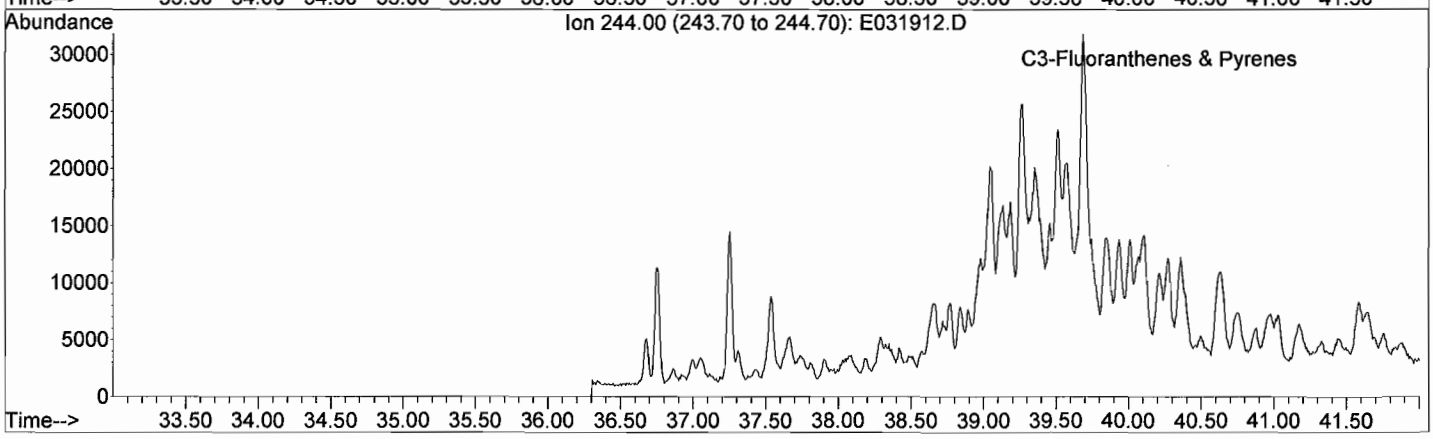
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR





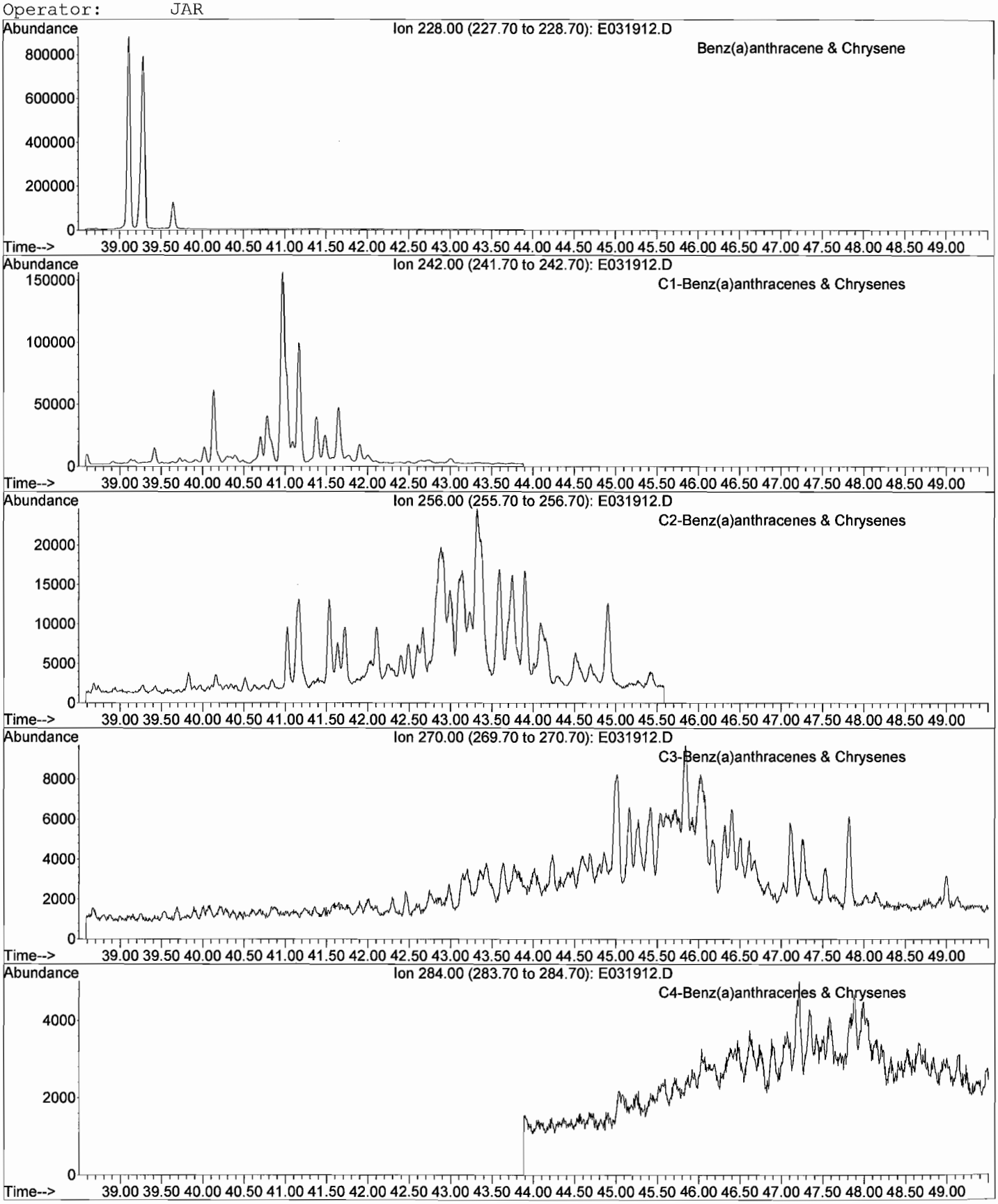




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

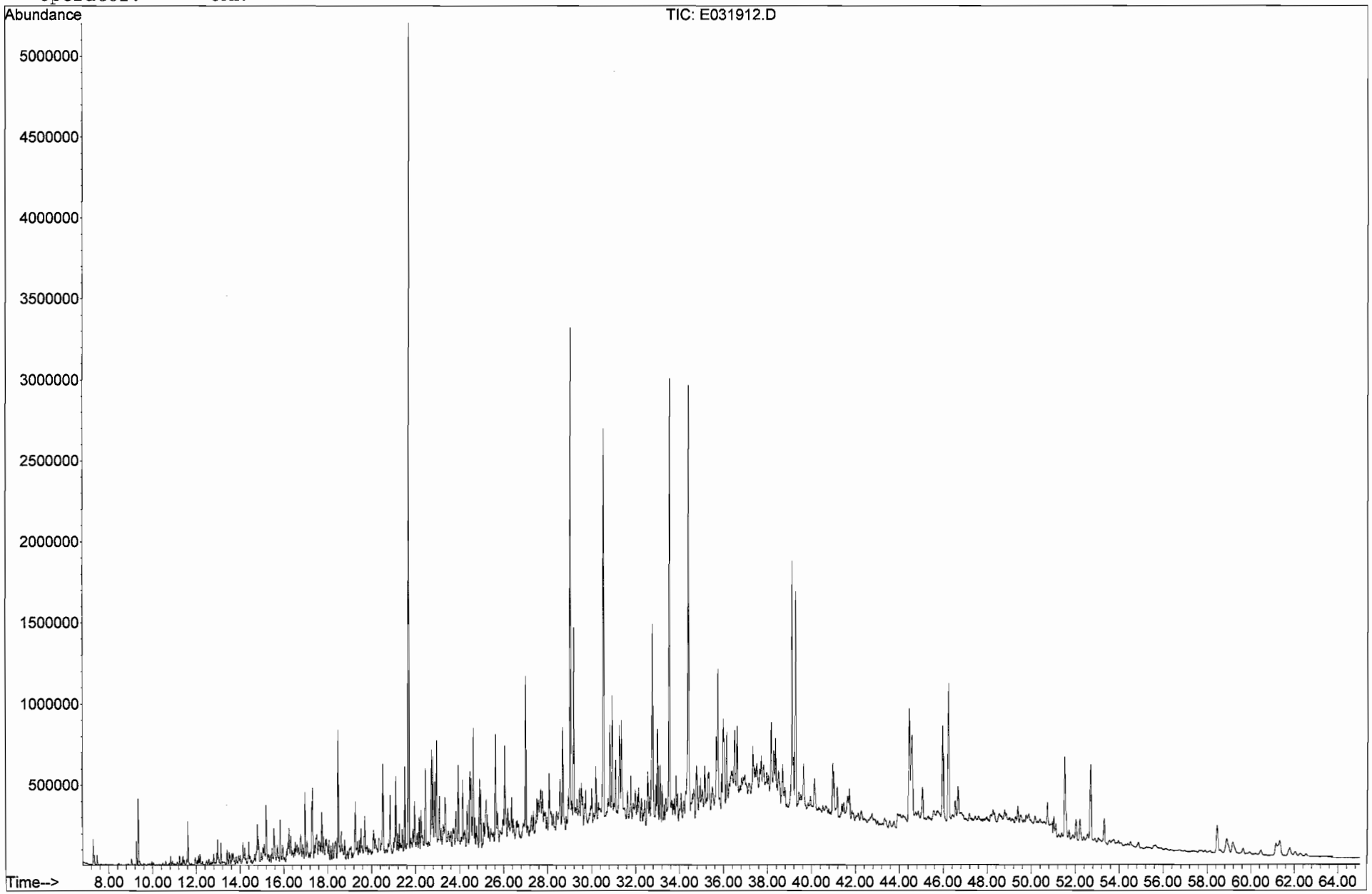
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

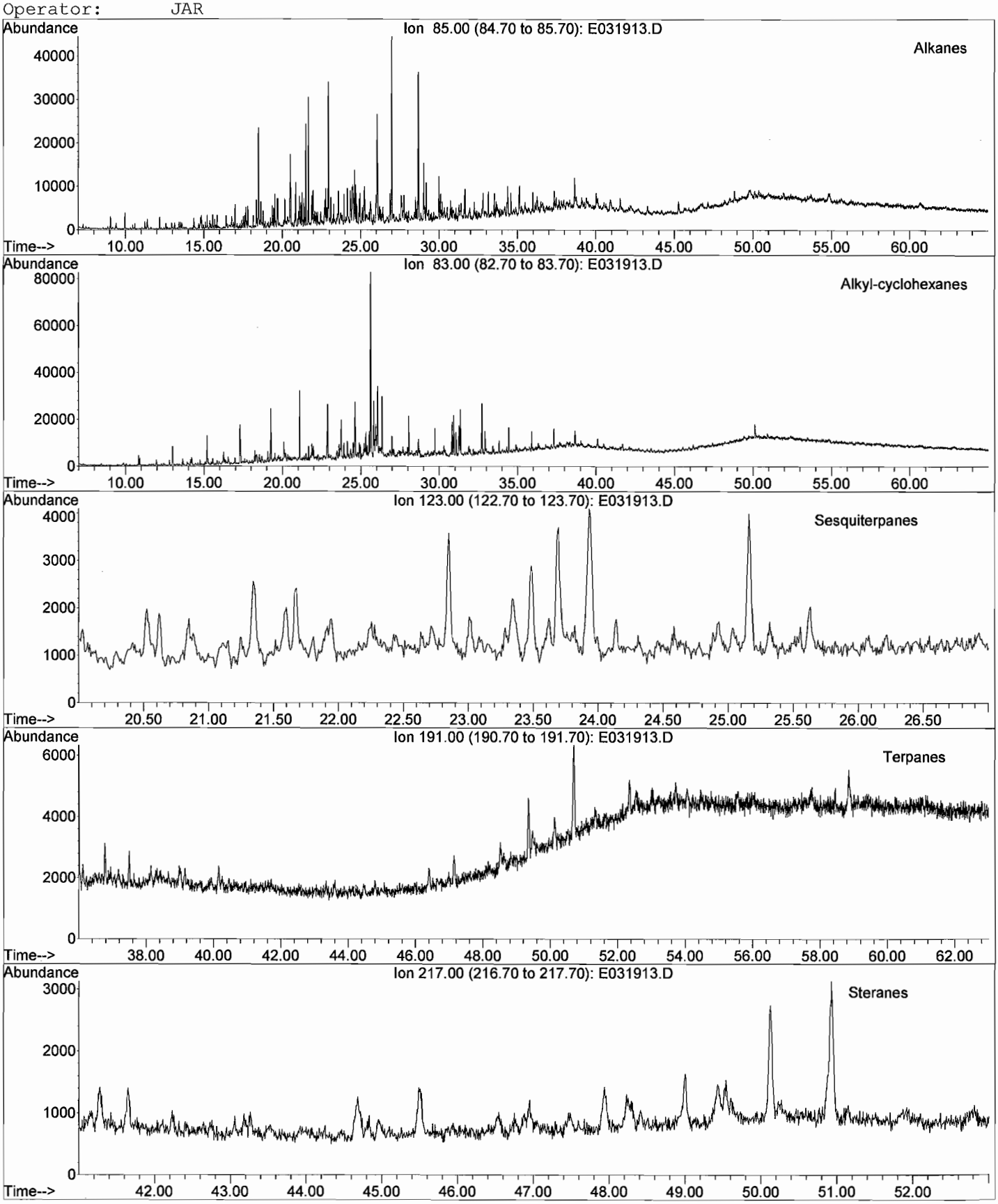
File: J:\1\DATA\E070319\E031912.D
Date Acquired: 20 Mar 2007 4:45 am
Method File: 4008SIM2.M
Sample Name: BR070313-06
Misc Info: CRAW-CSB039-001 (5.0'-6.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

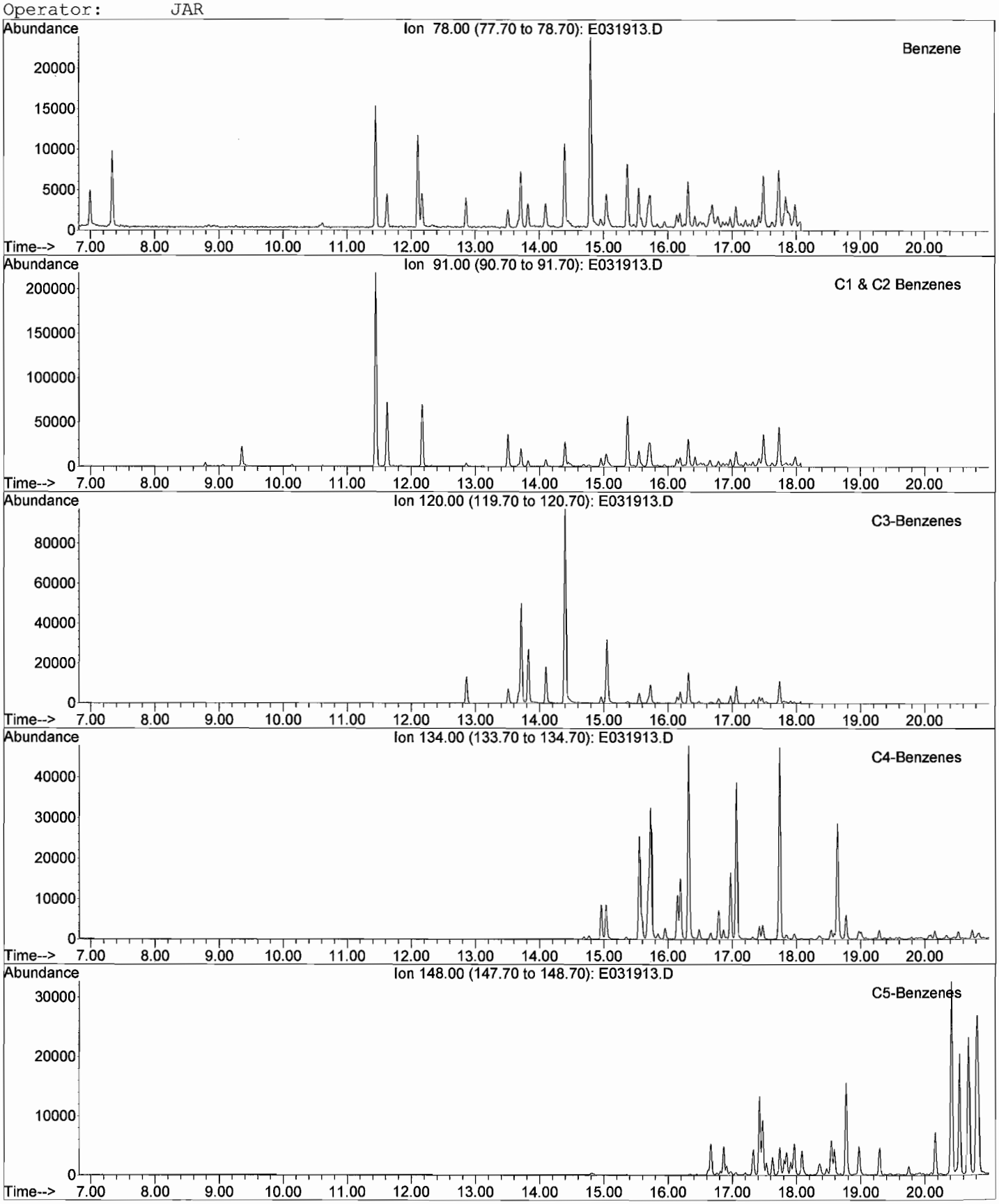
File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
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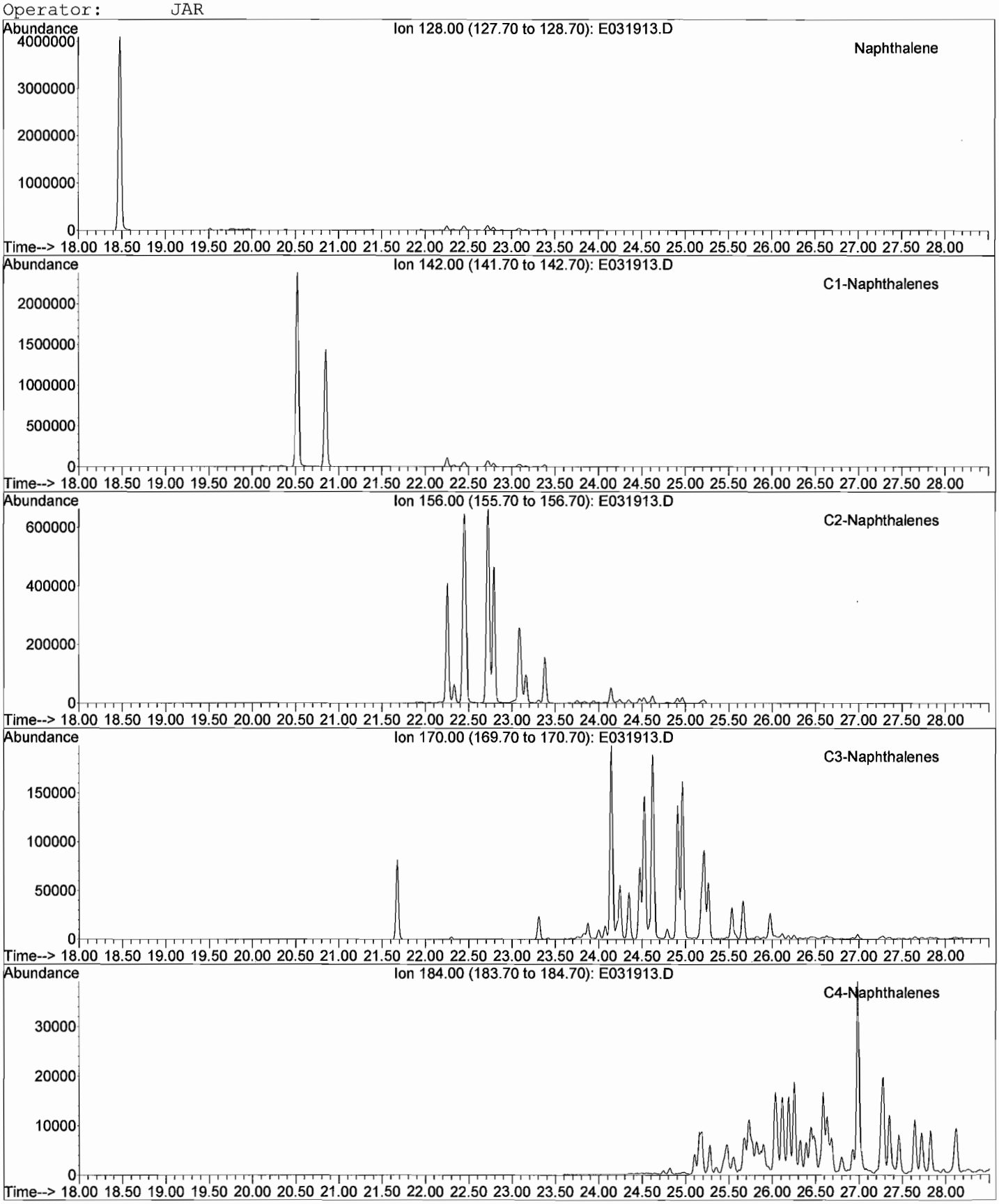
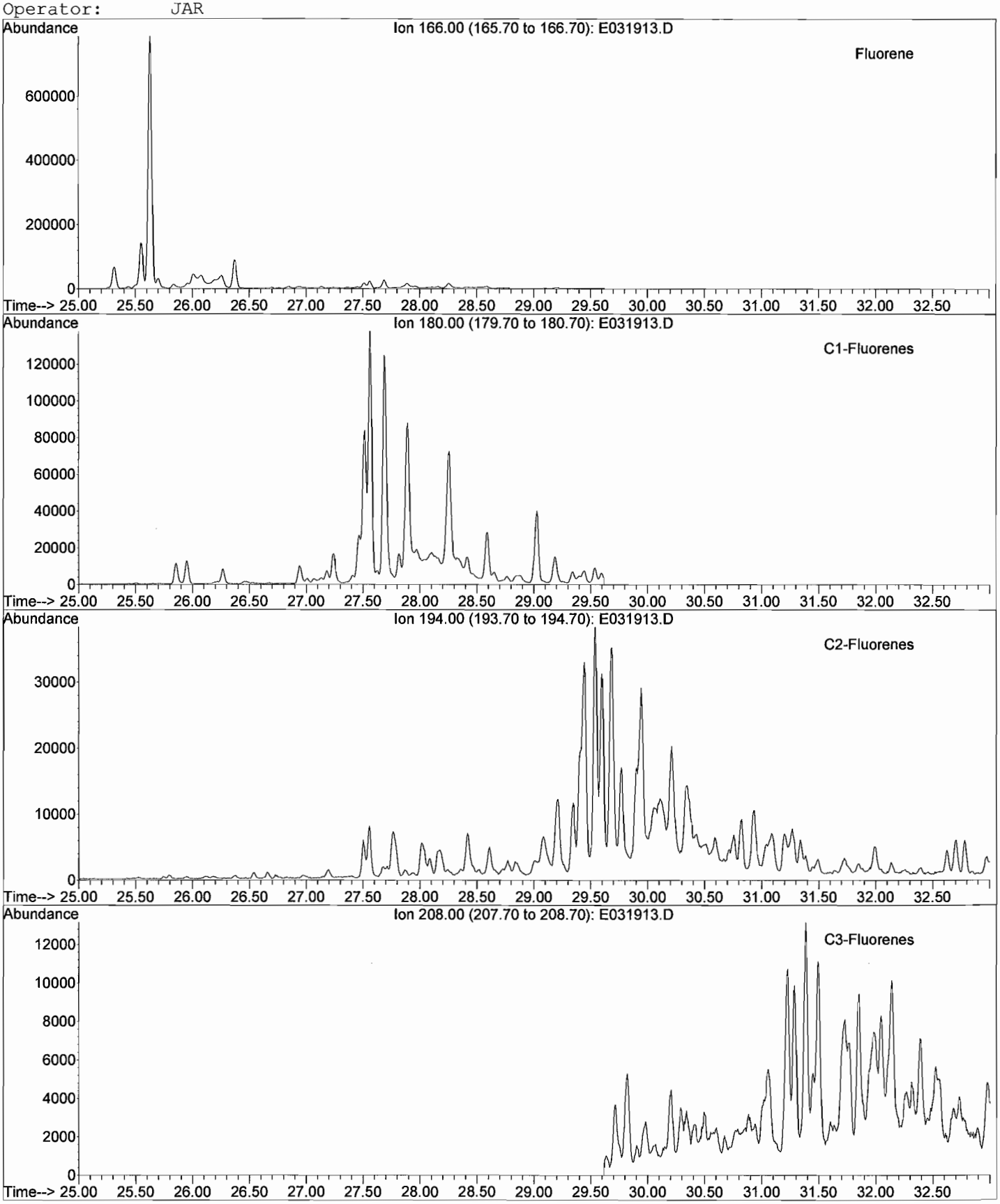
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

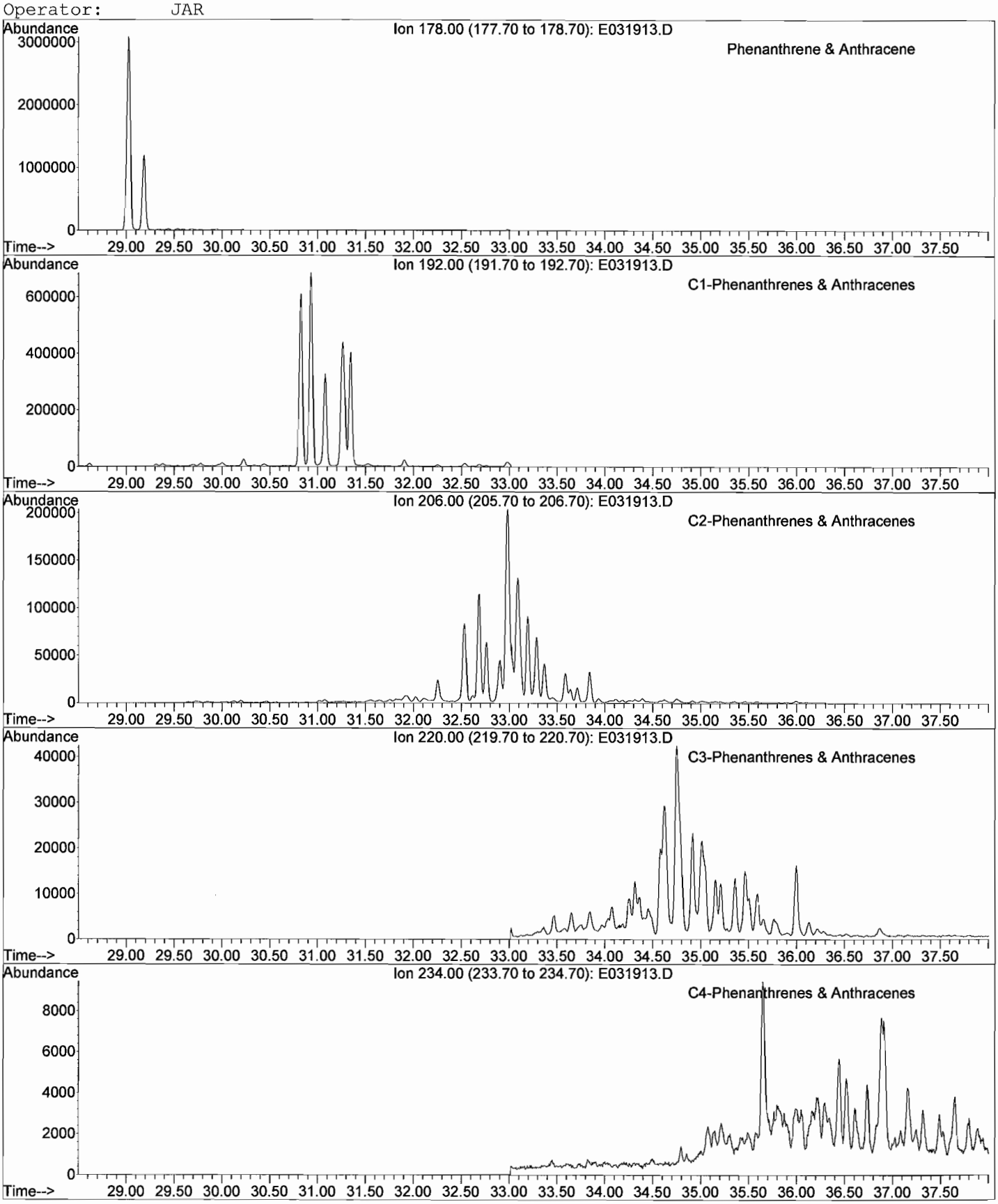
File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

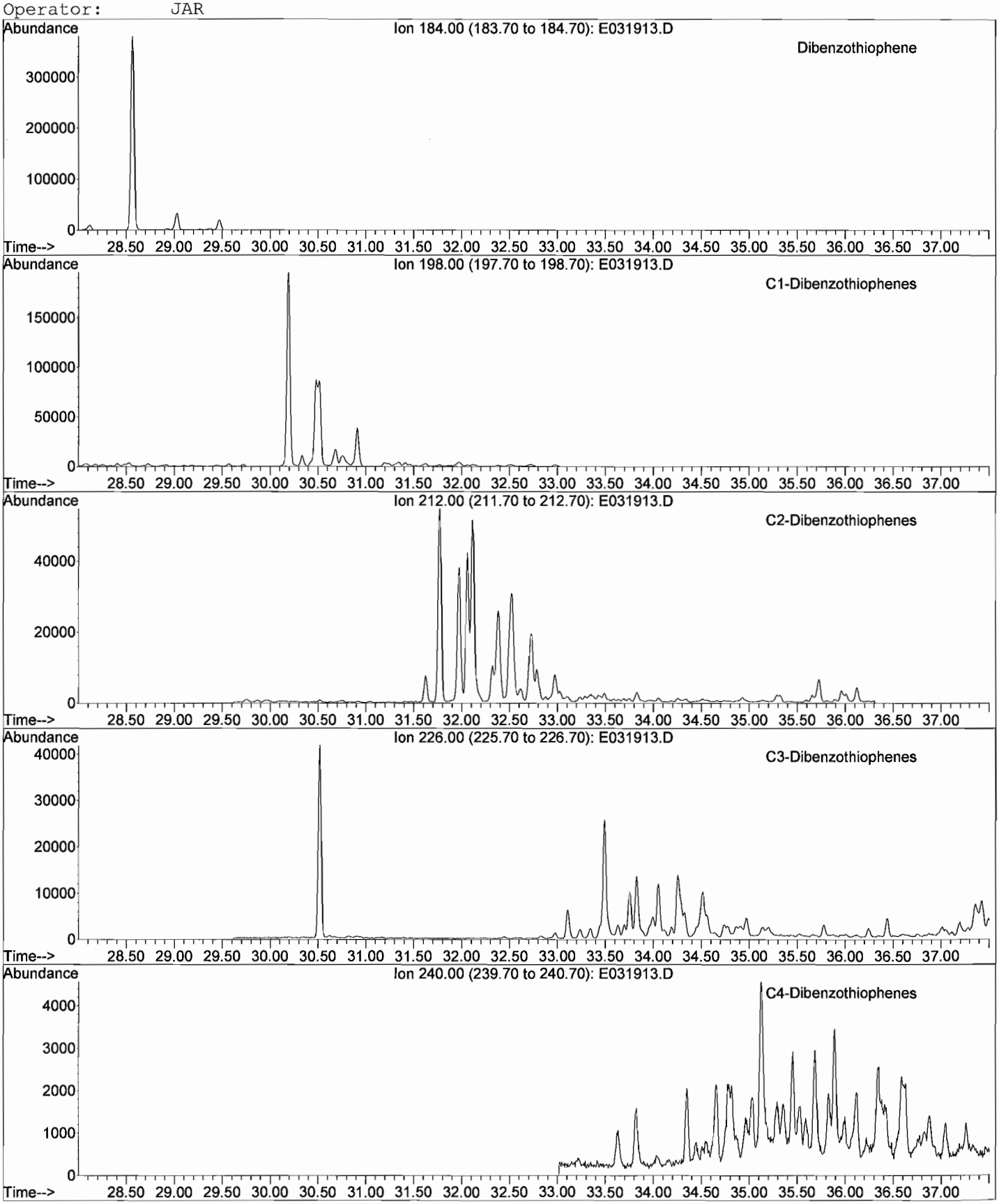
File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

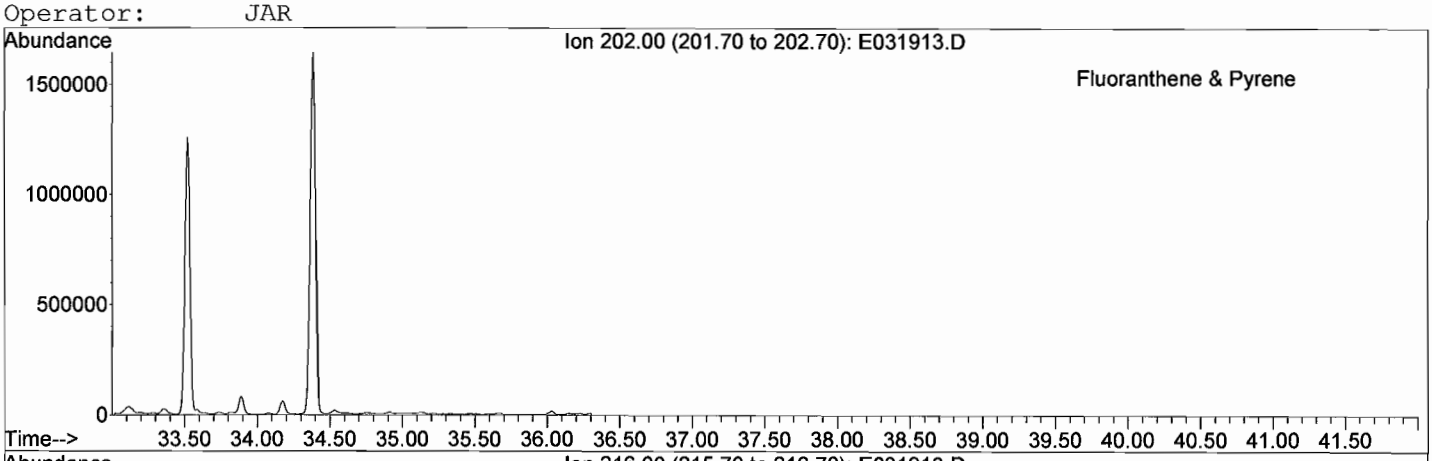
File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR

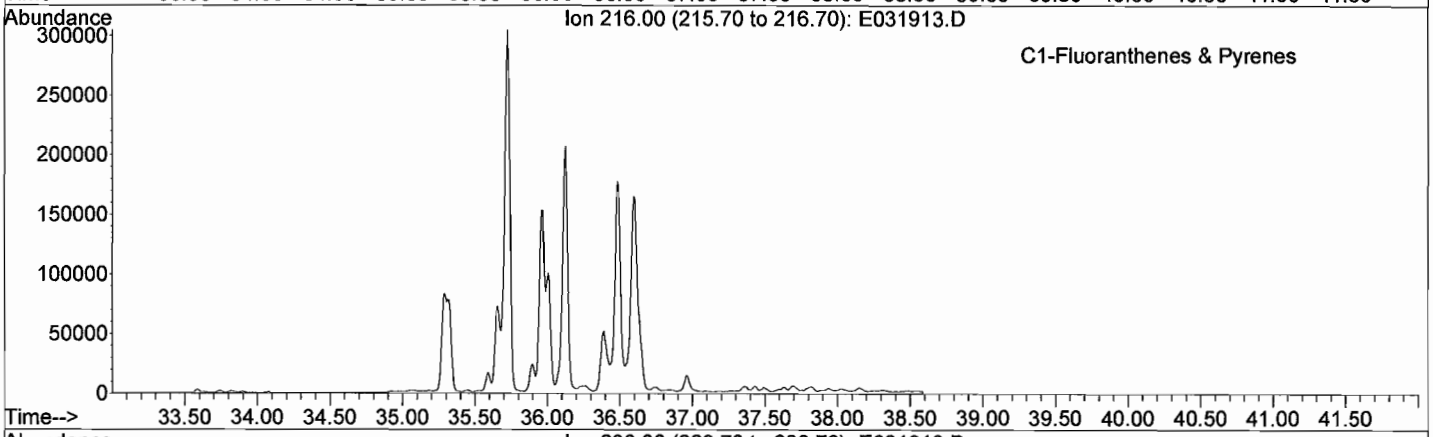


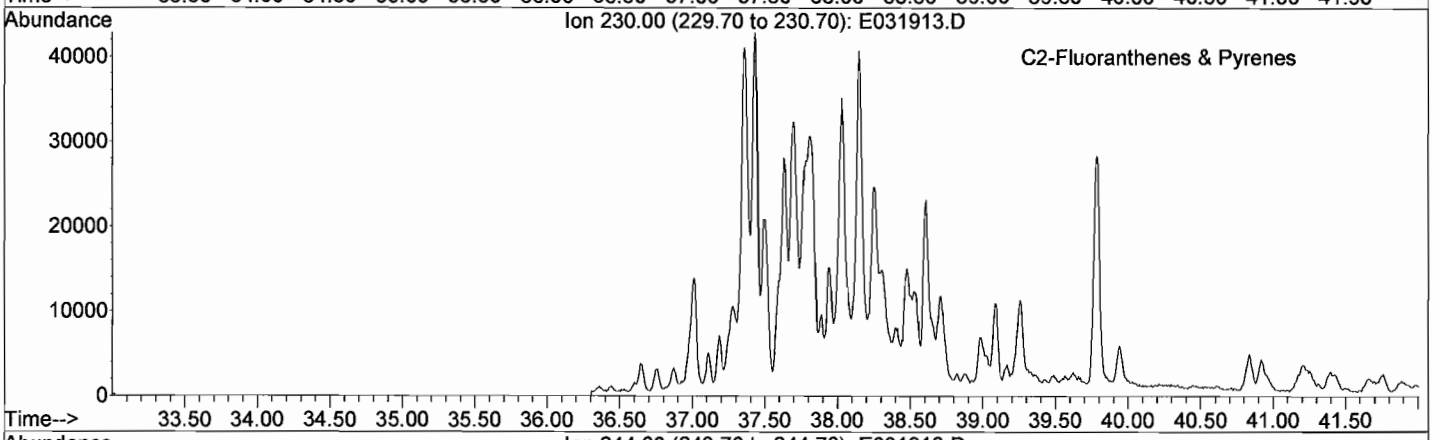
META Environmental, Inc.

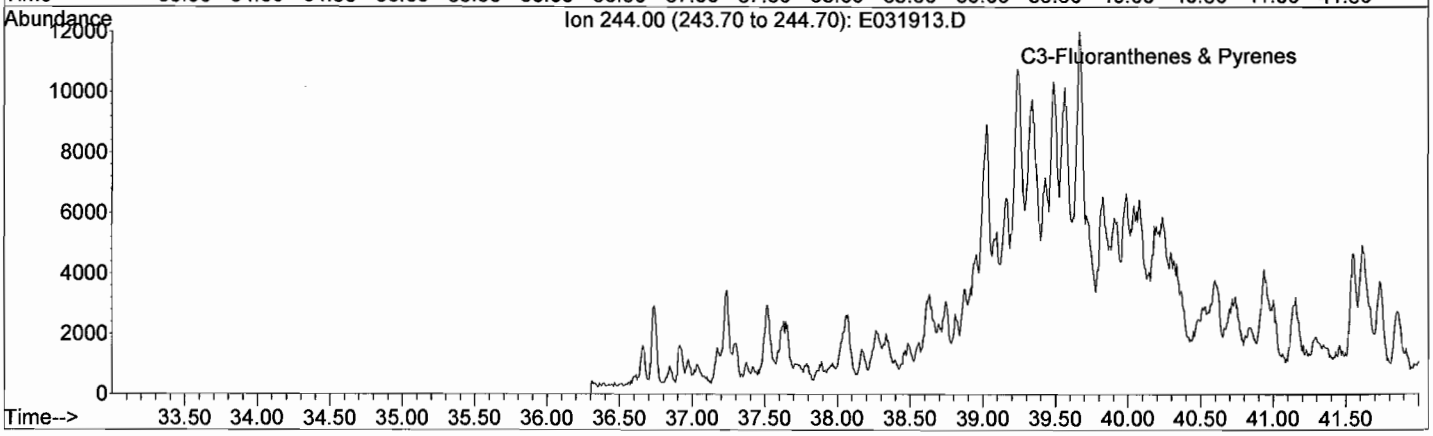
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR





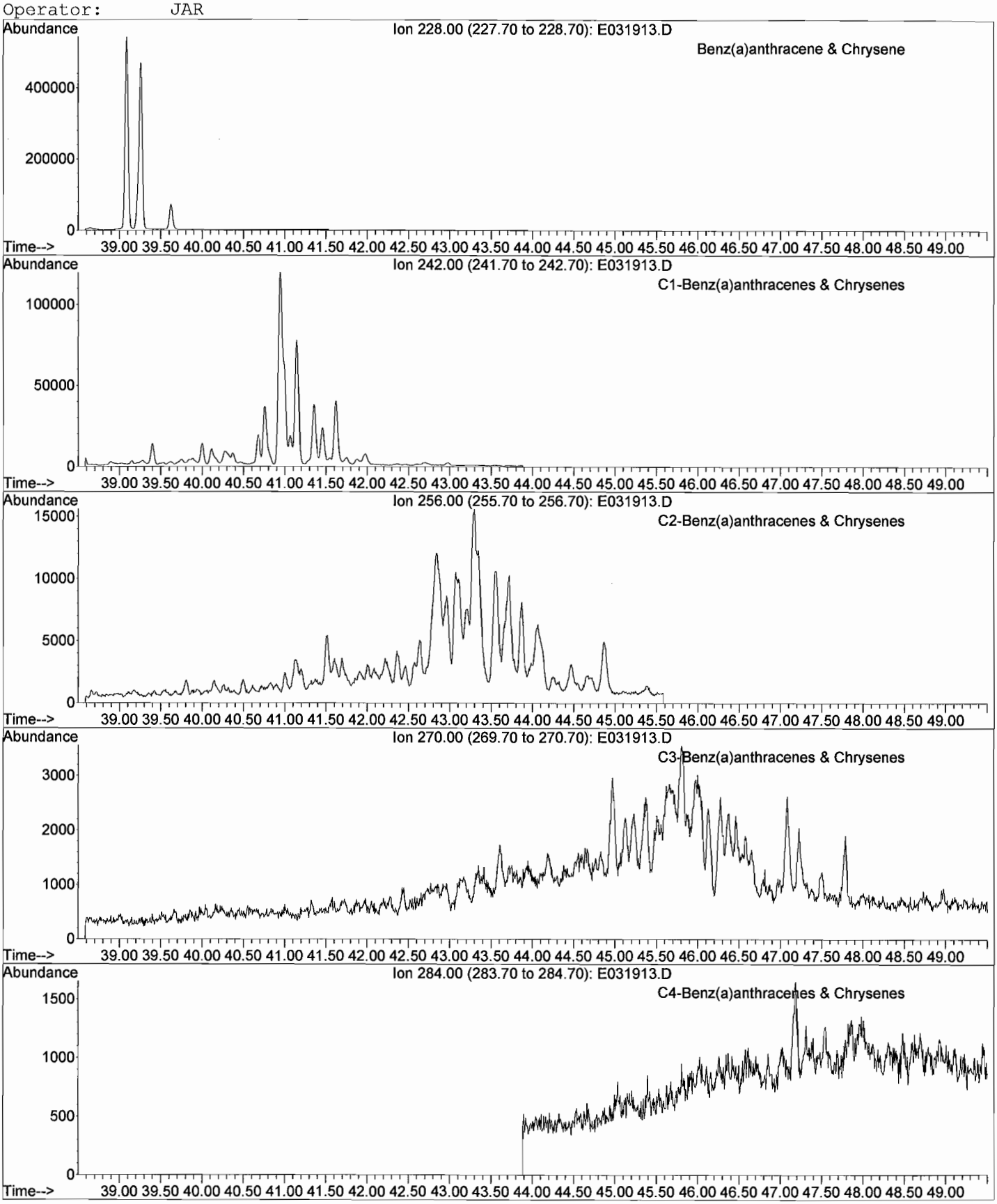




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

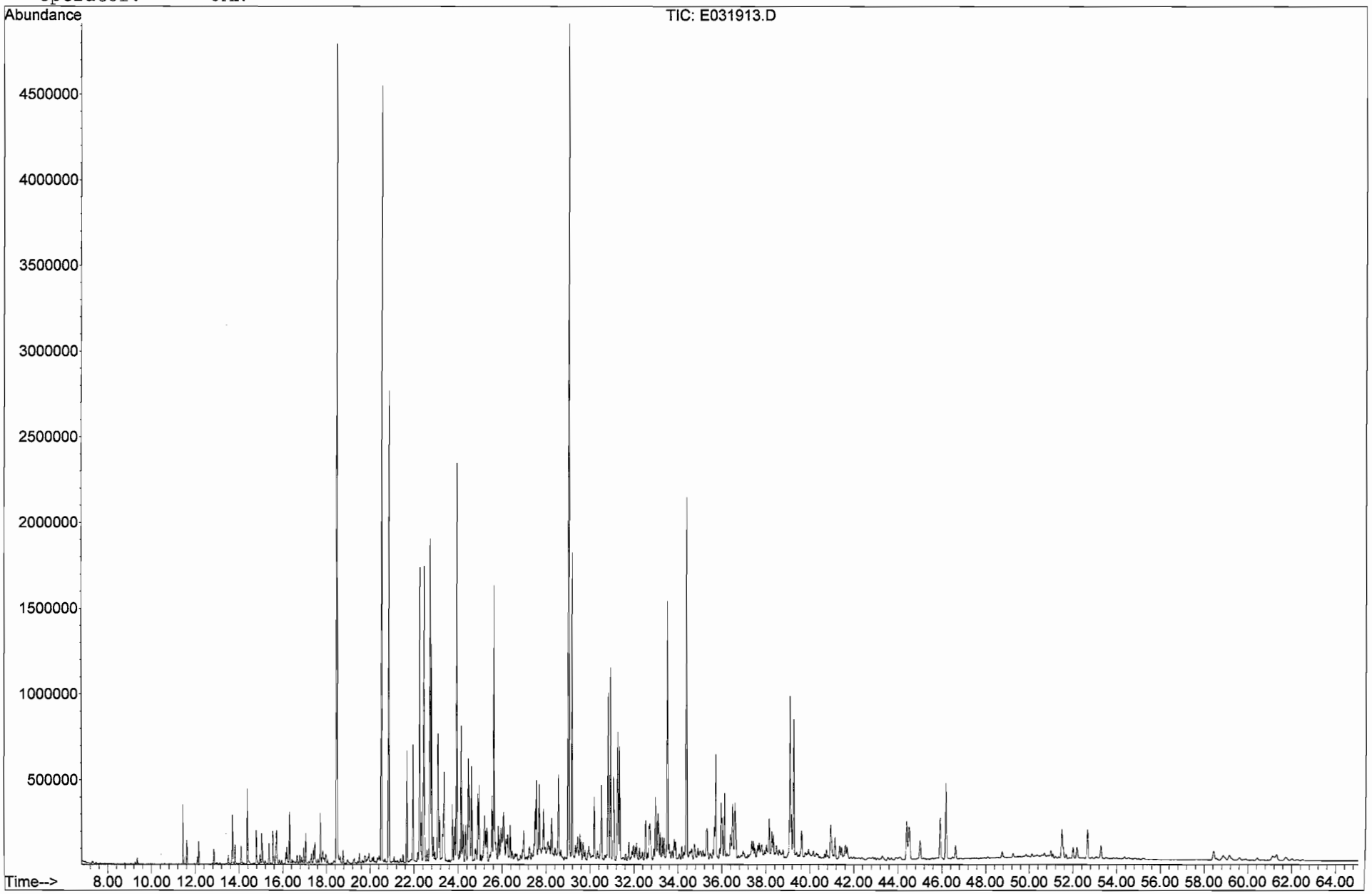
File: J:\l\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

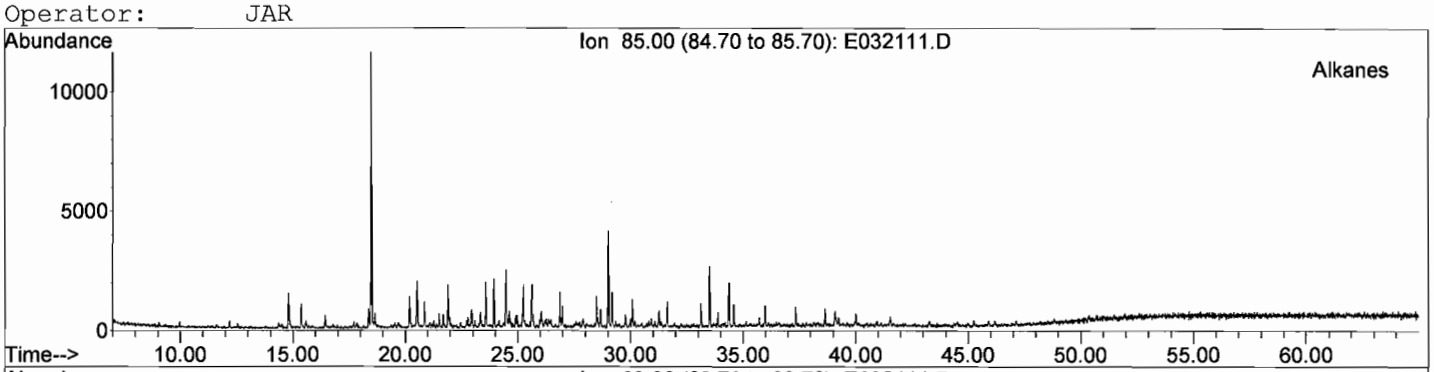
File: J:\1\DATA\E070319\E031913.D
Date Acquired: 20 Mar 2007 6:02 am
Method File: 4008SIM2.M
Sample Name: BR070313-07-D
Misc Info: CRAW-CSB039-002 (8.3'-8.8')
Operator: JAR

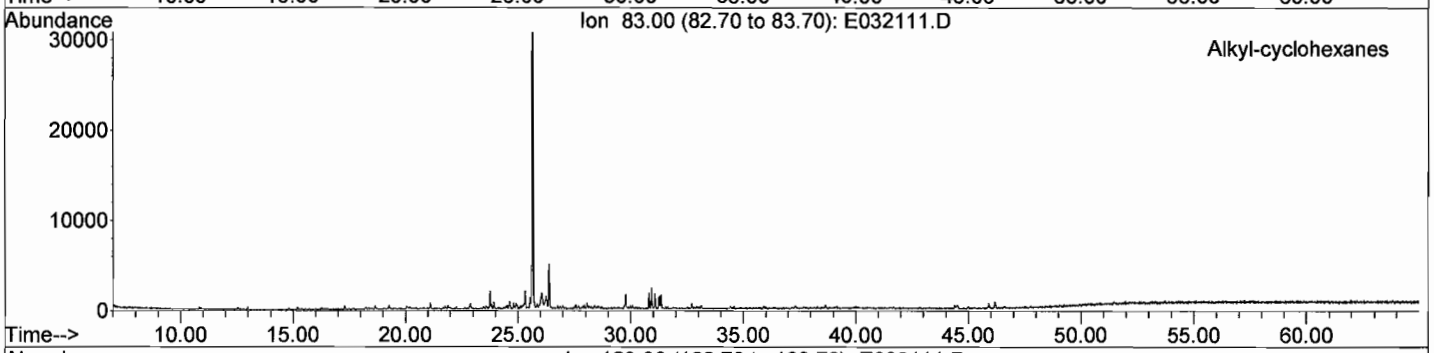


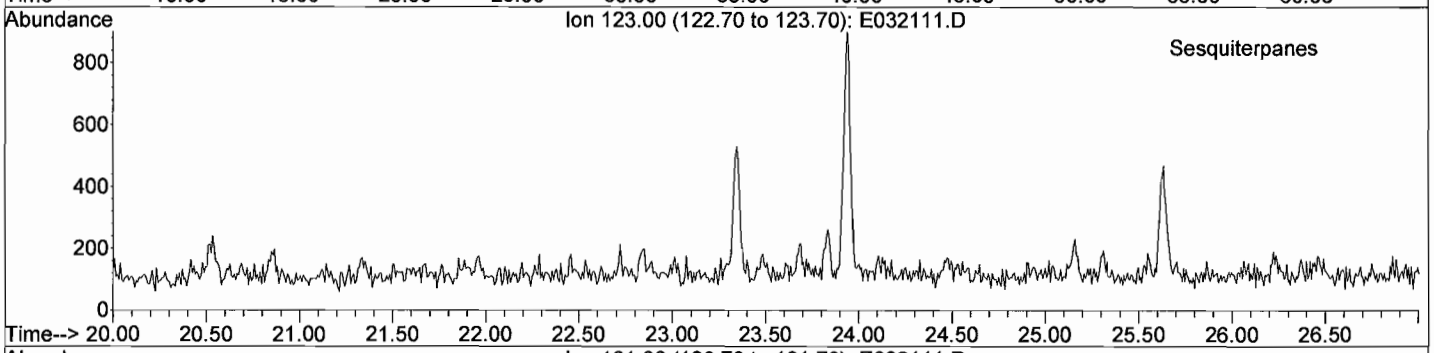
META Environmental, Inc.

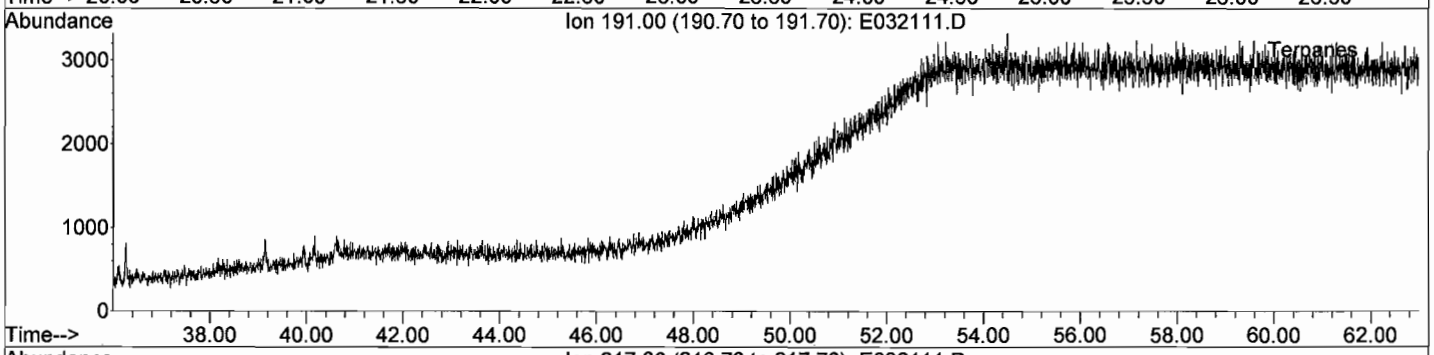
GC/MS EXTRACTED ION CHROMATOGRAM

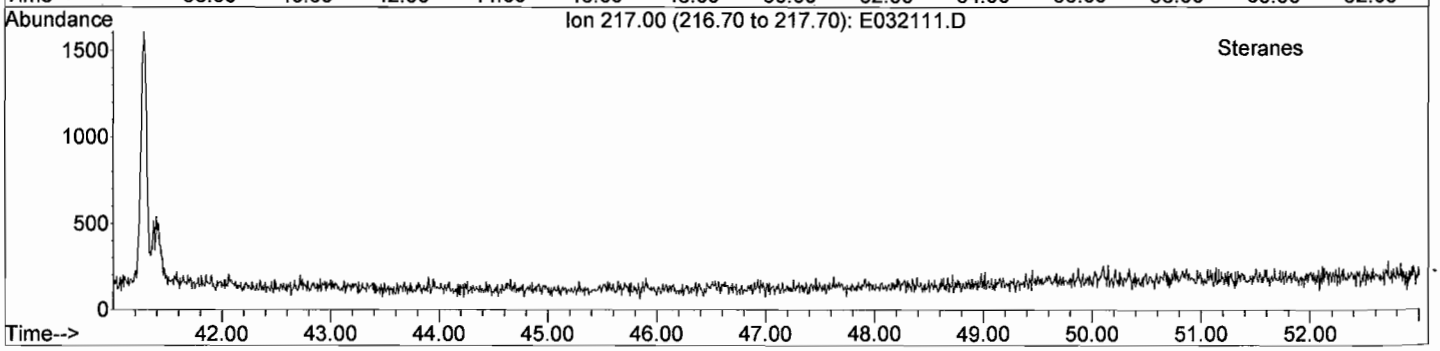
File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR







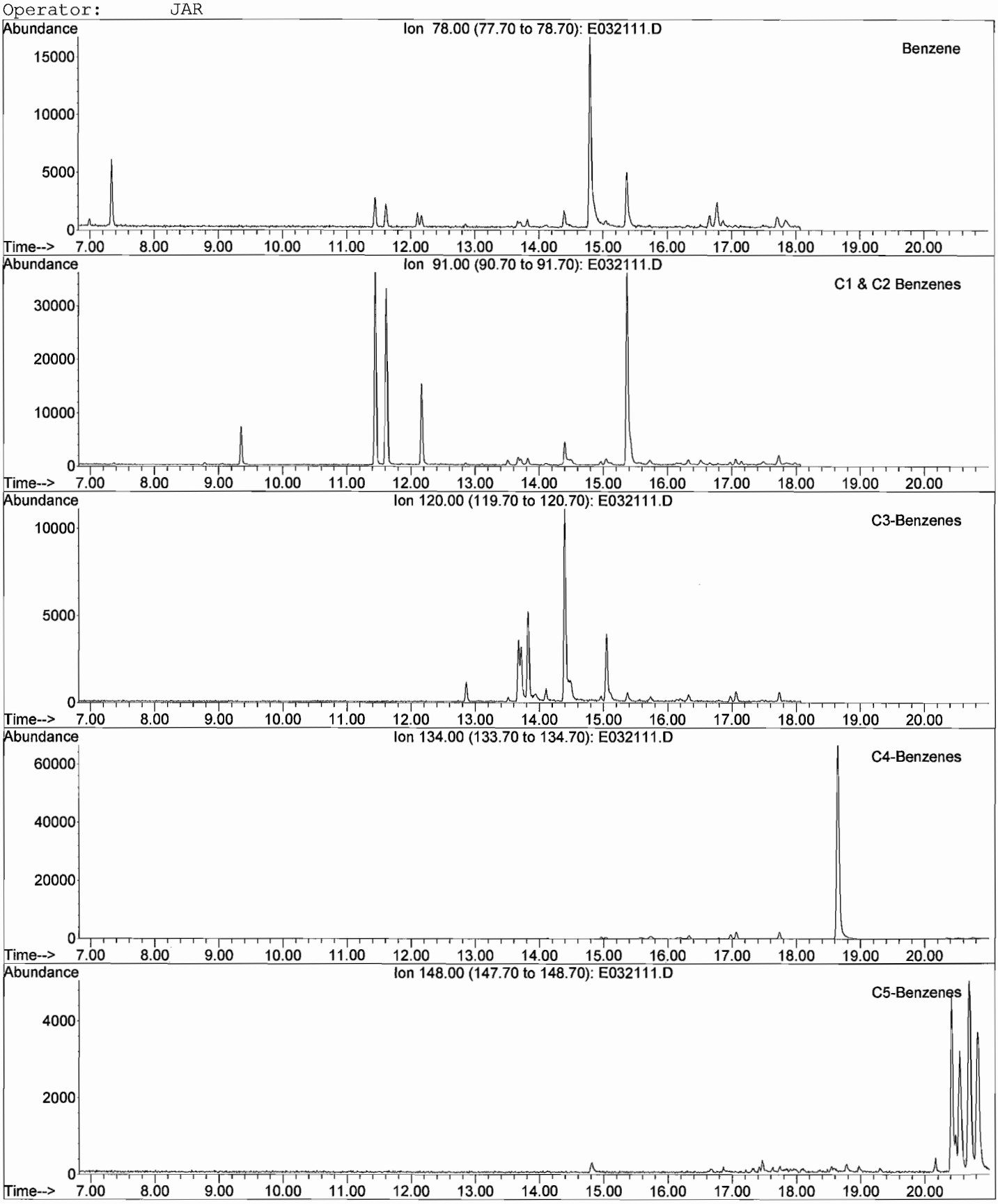




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

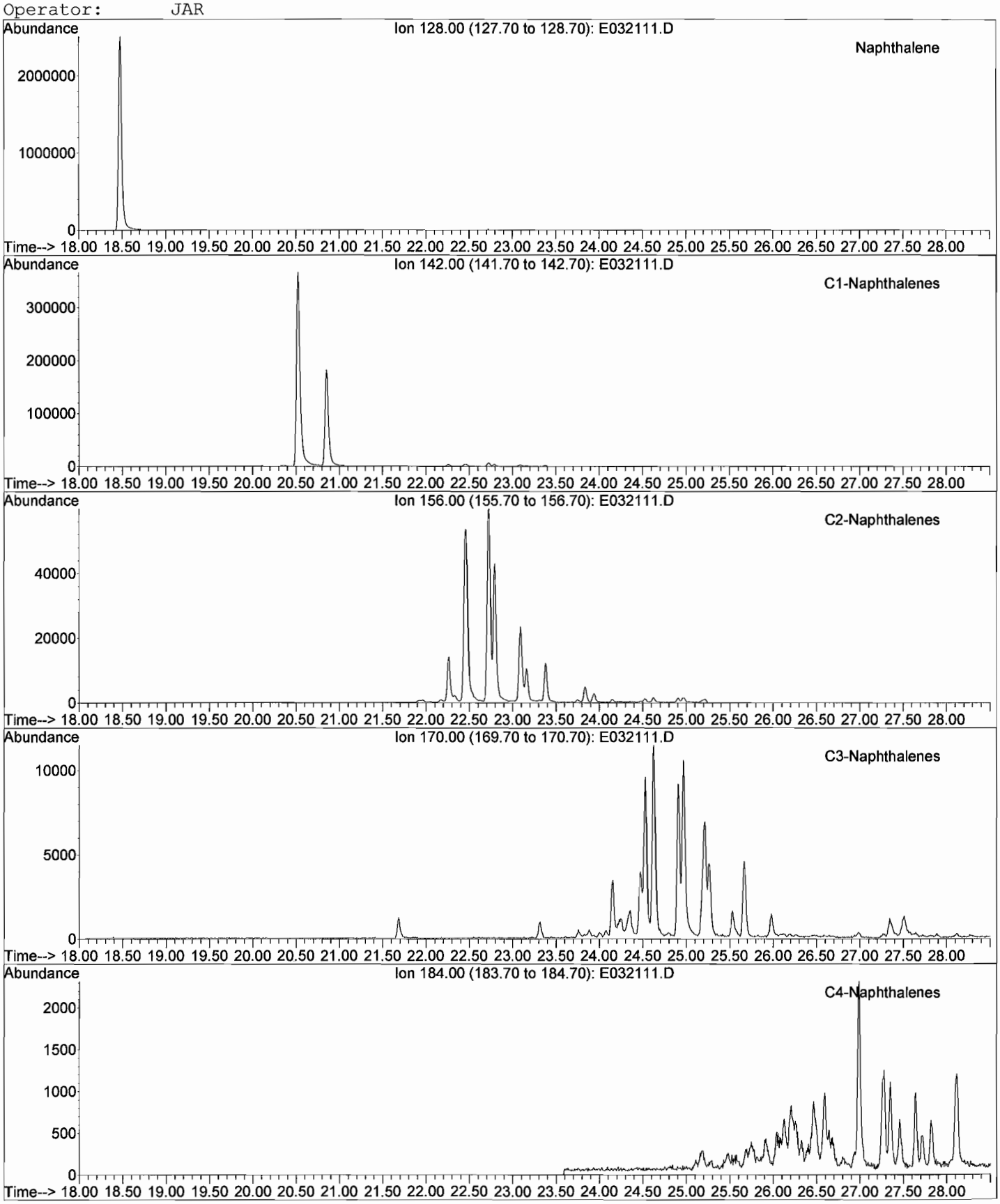
File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
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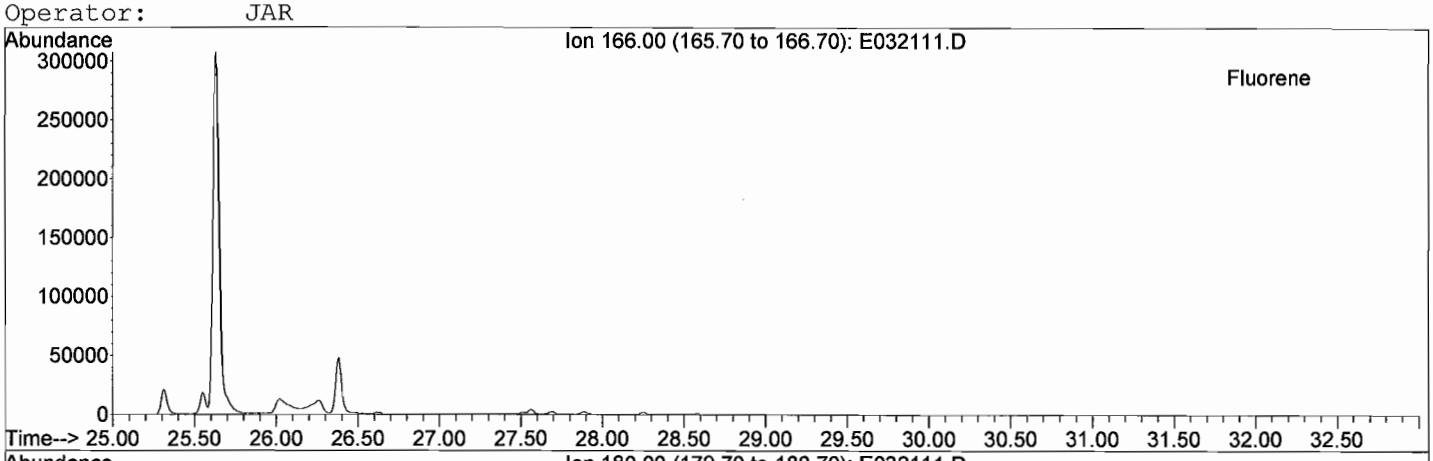
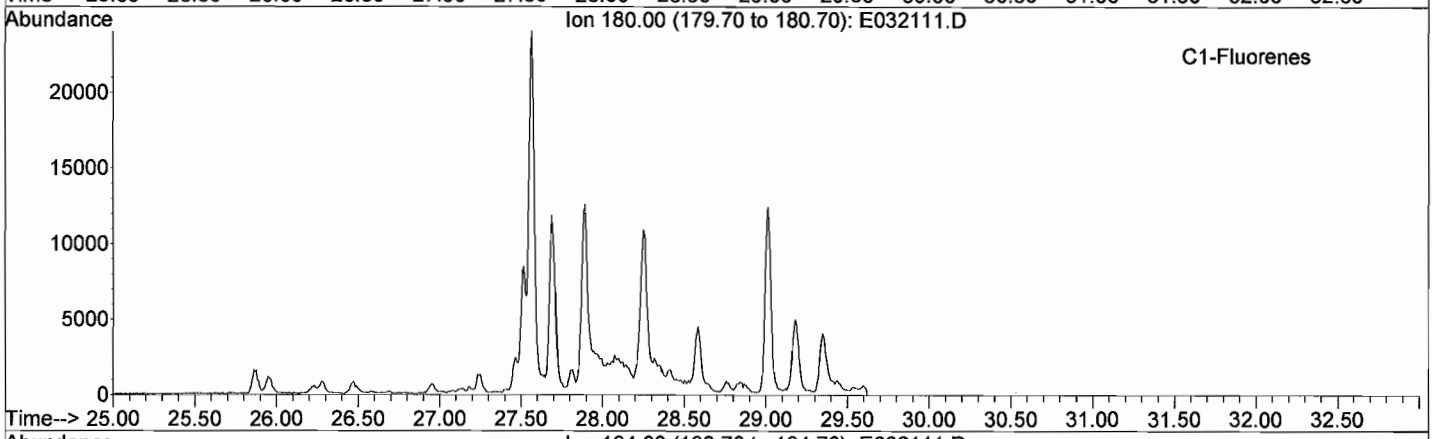
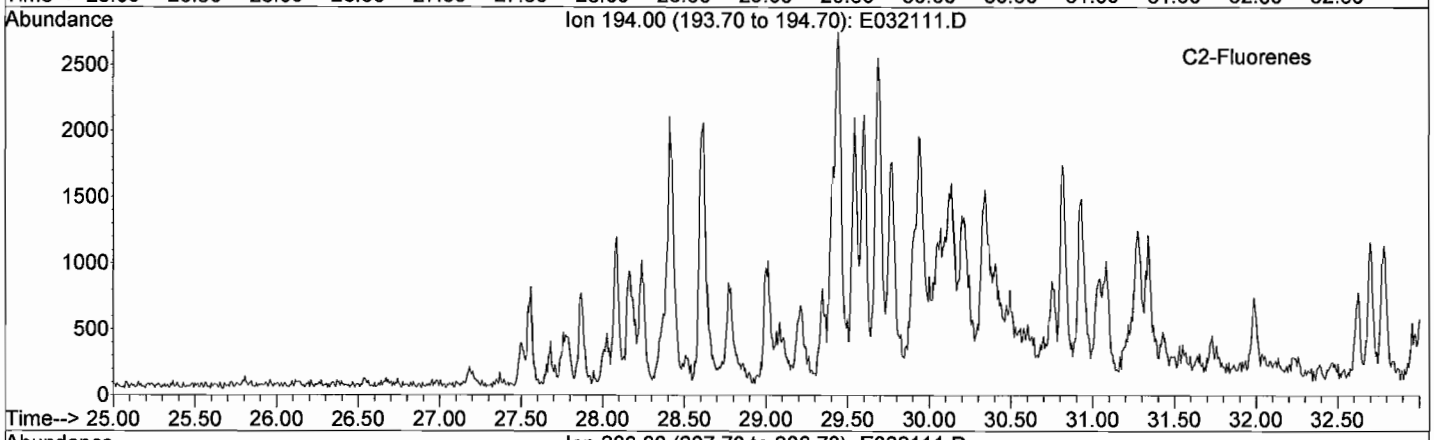
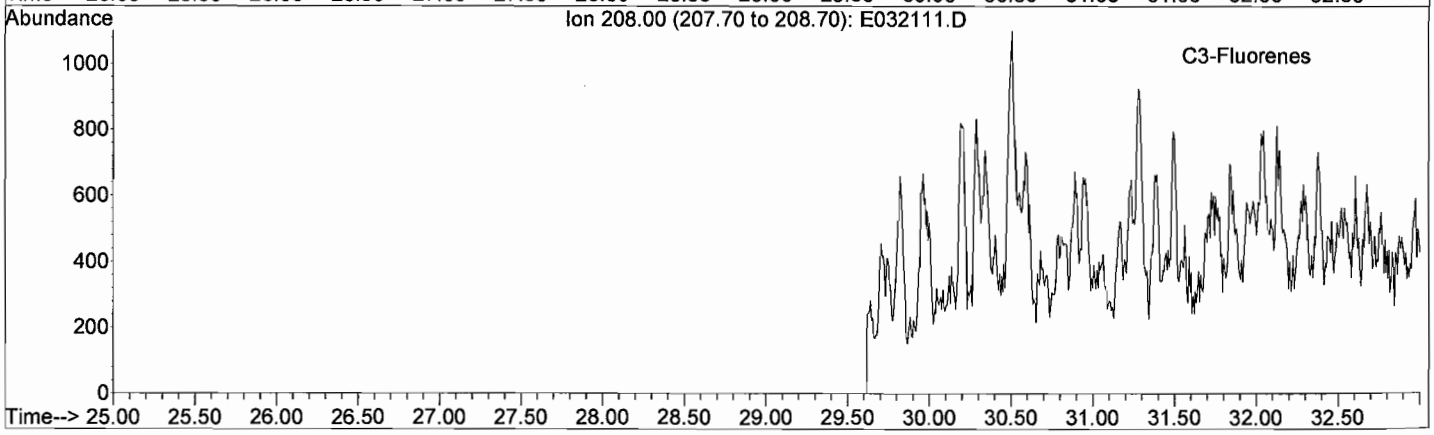
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR





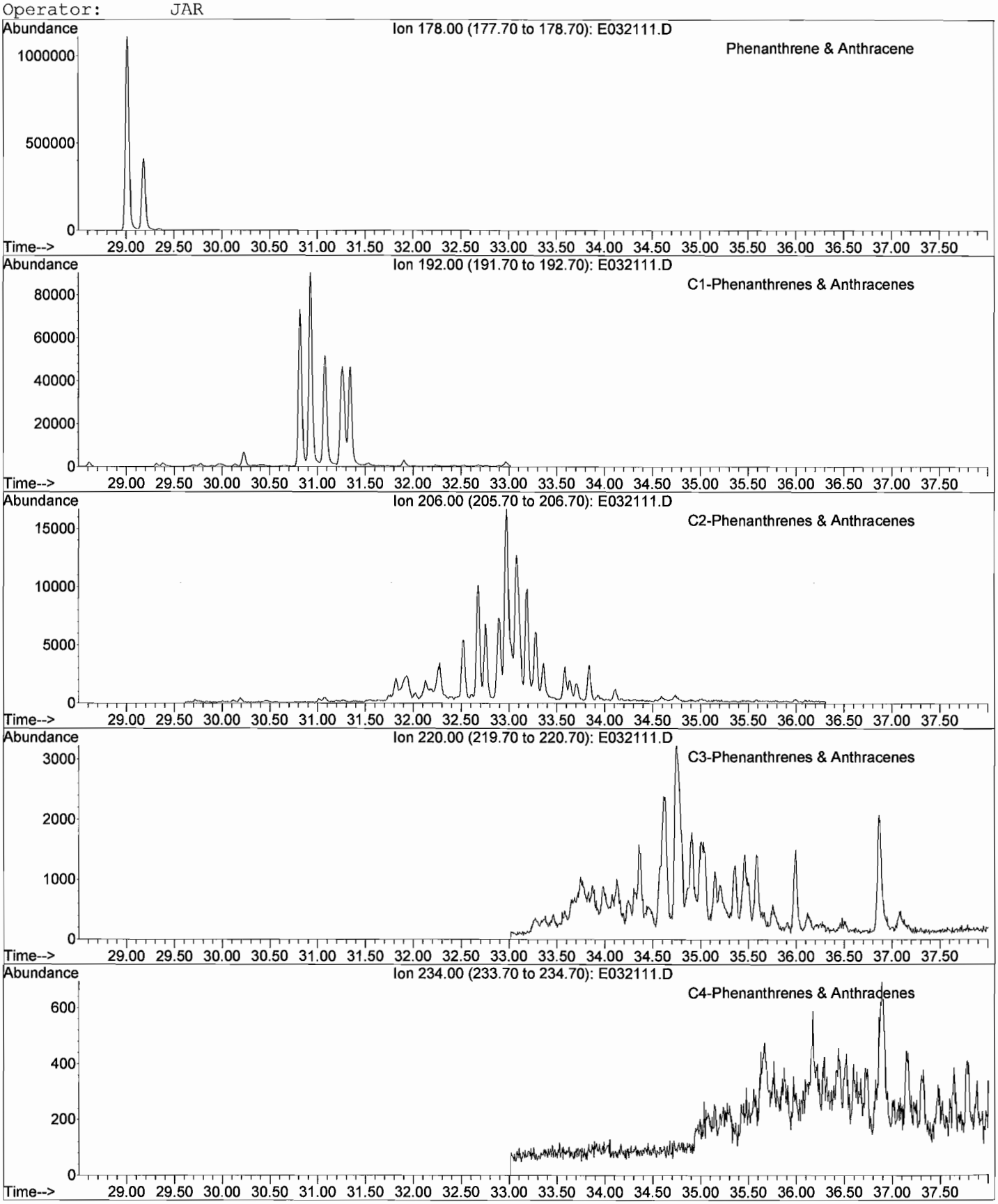




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
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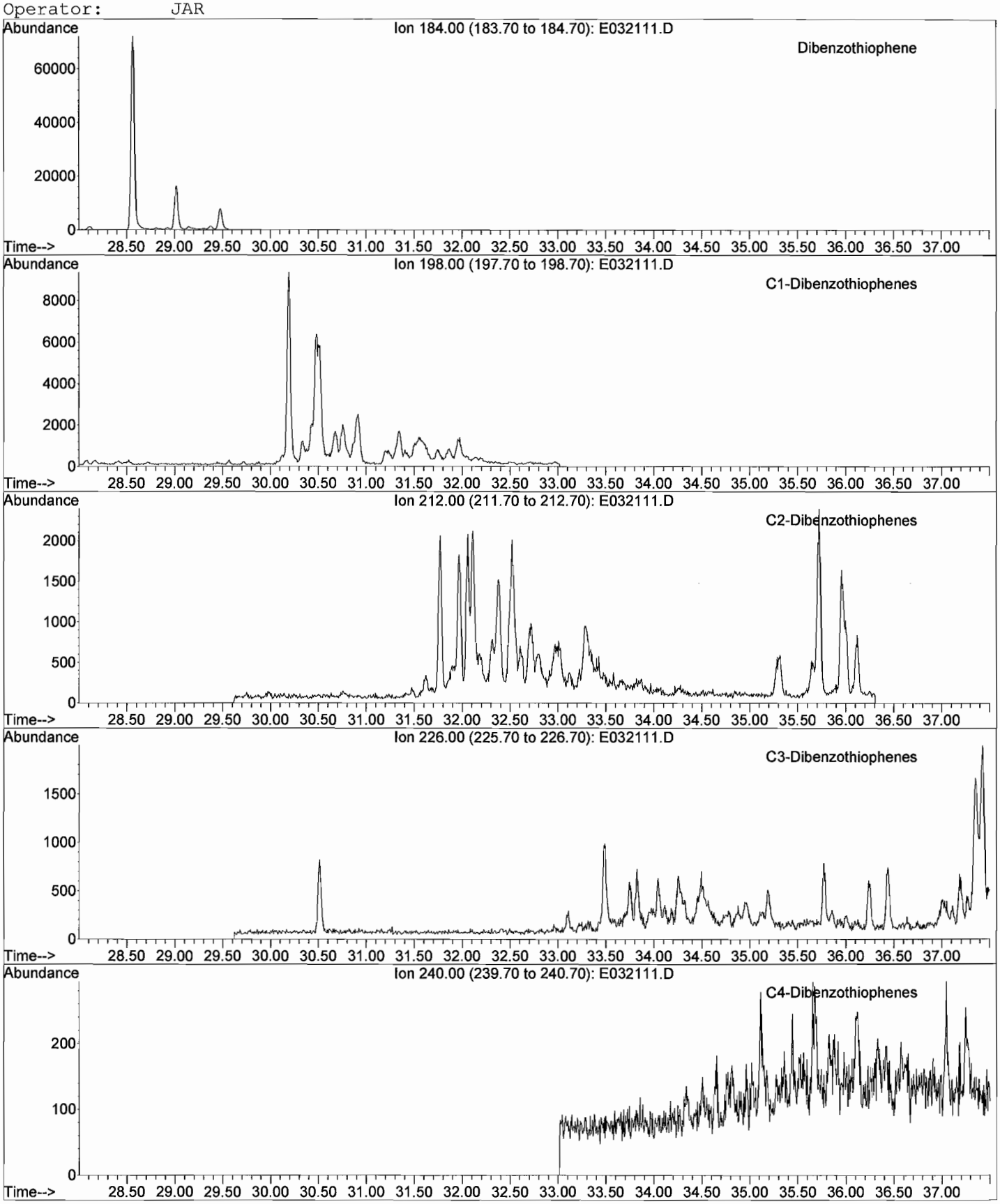
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
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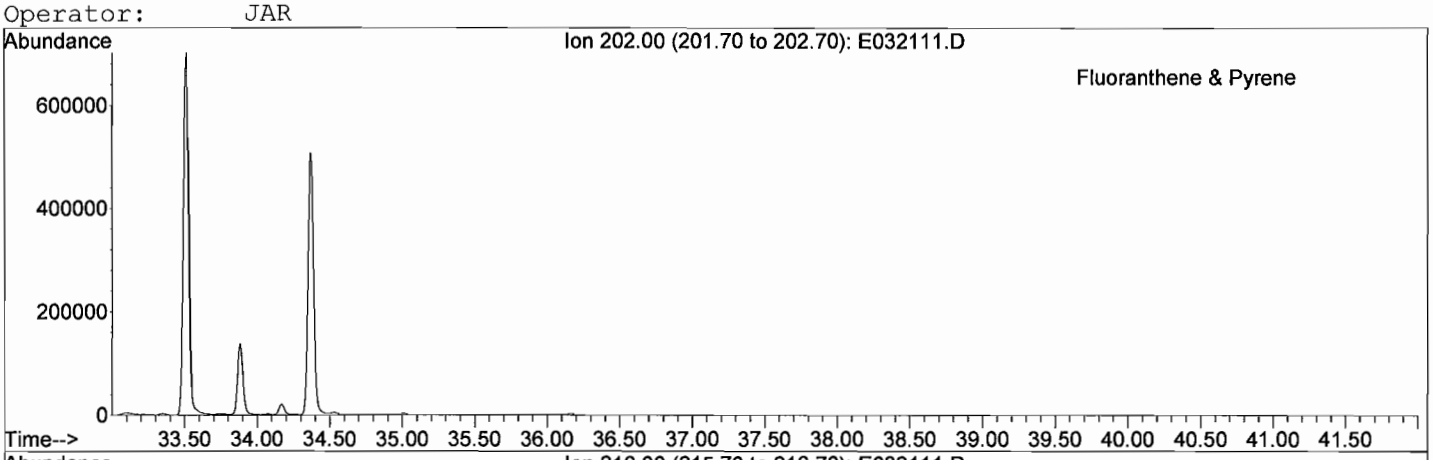
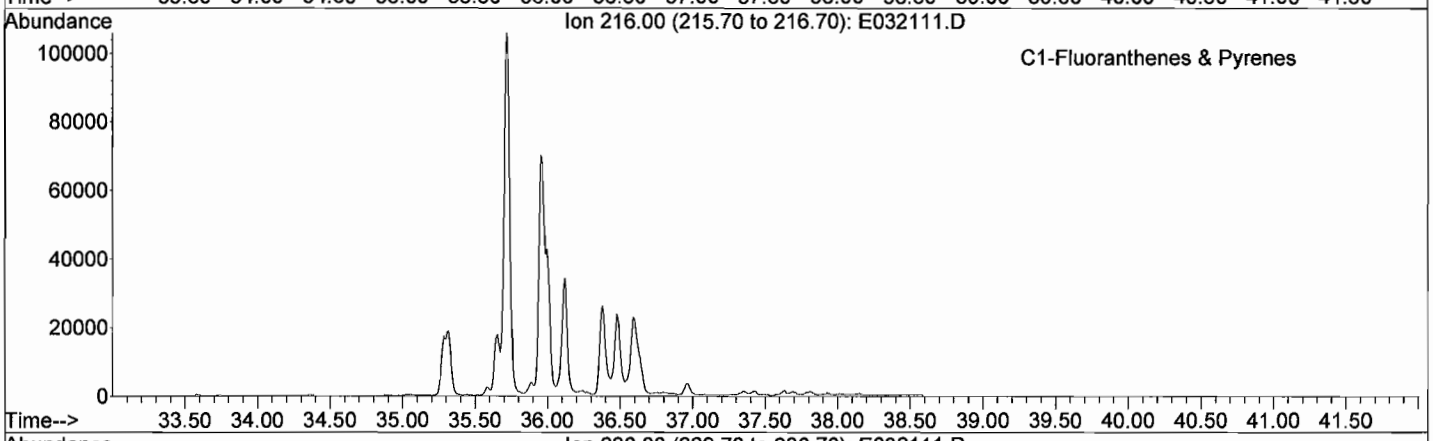
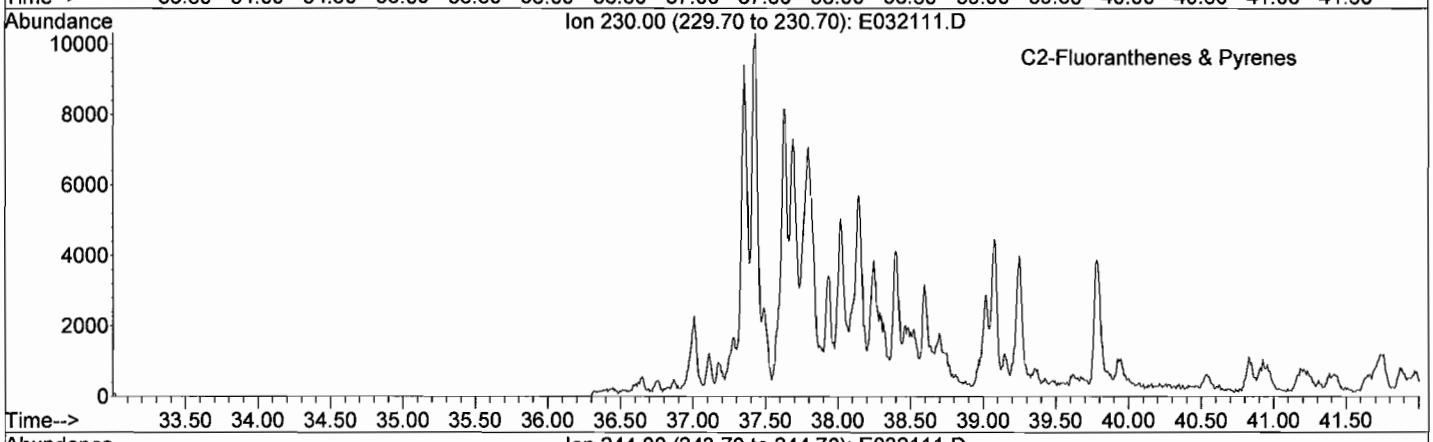
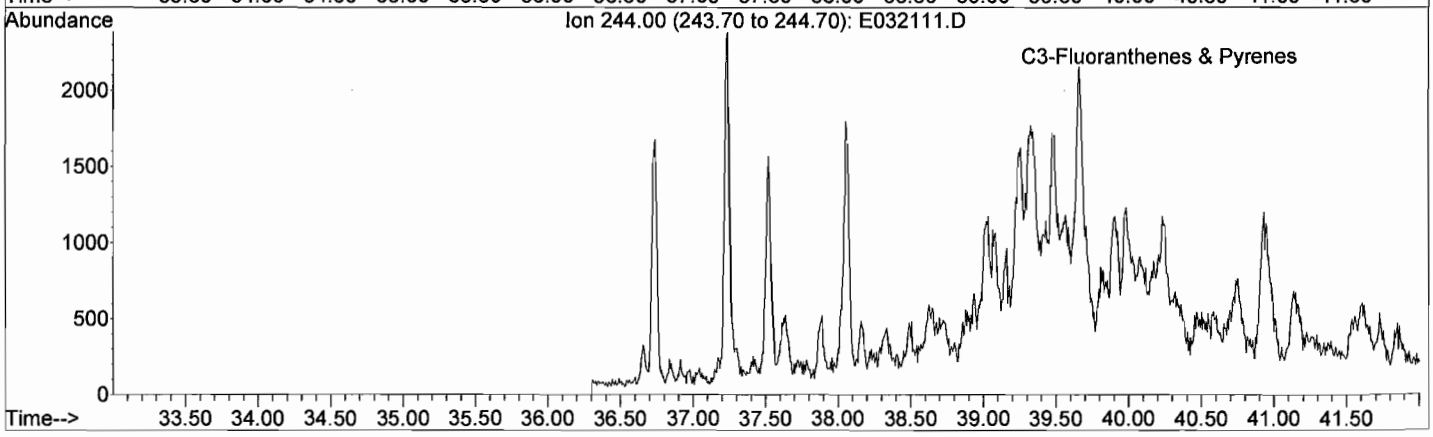
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR





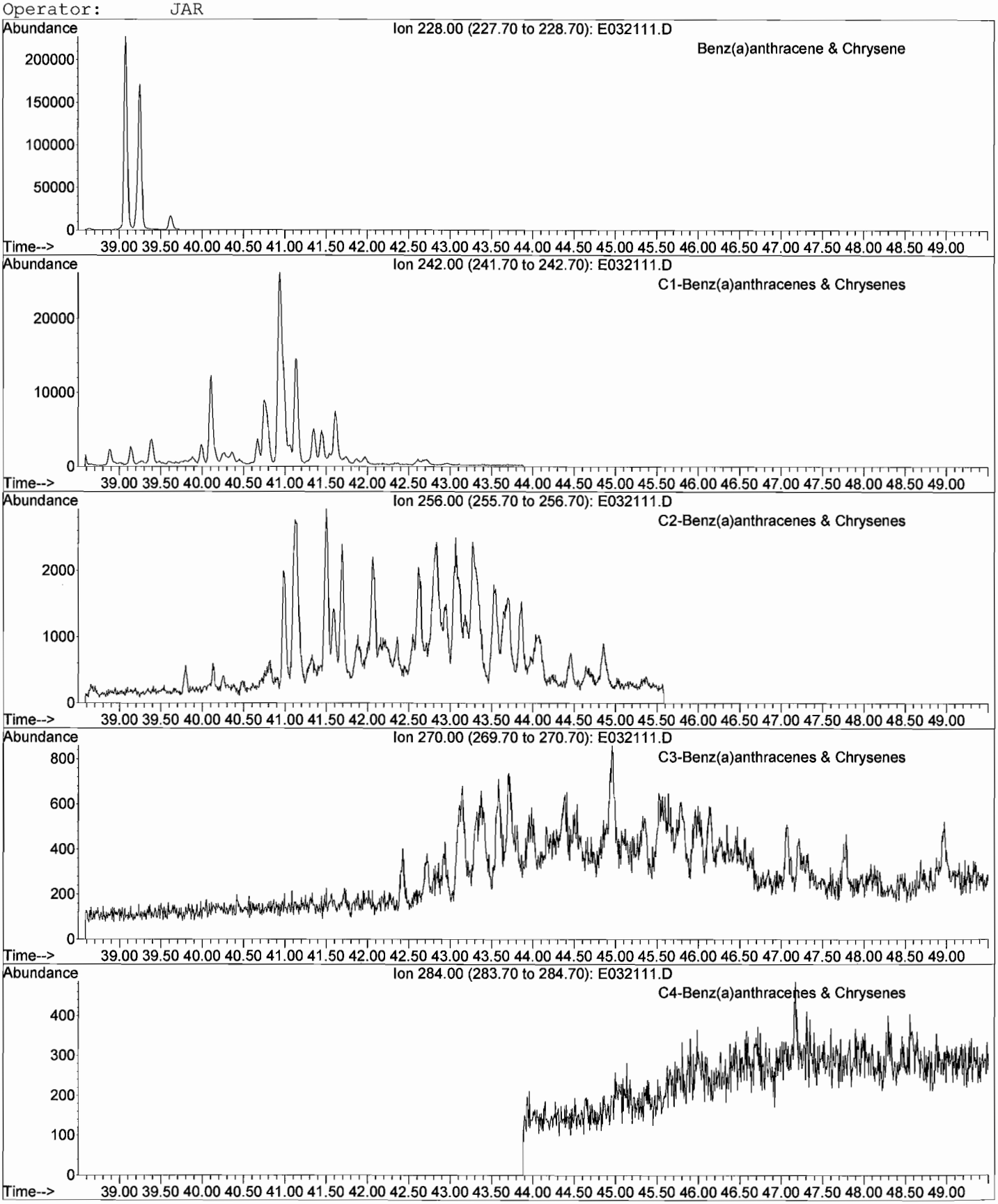




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

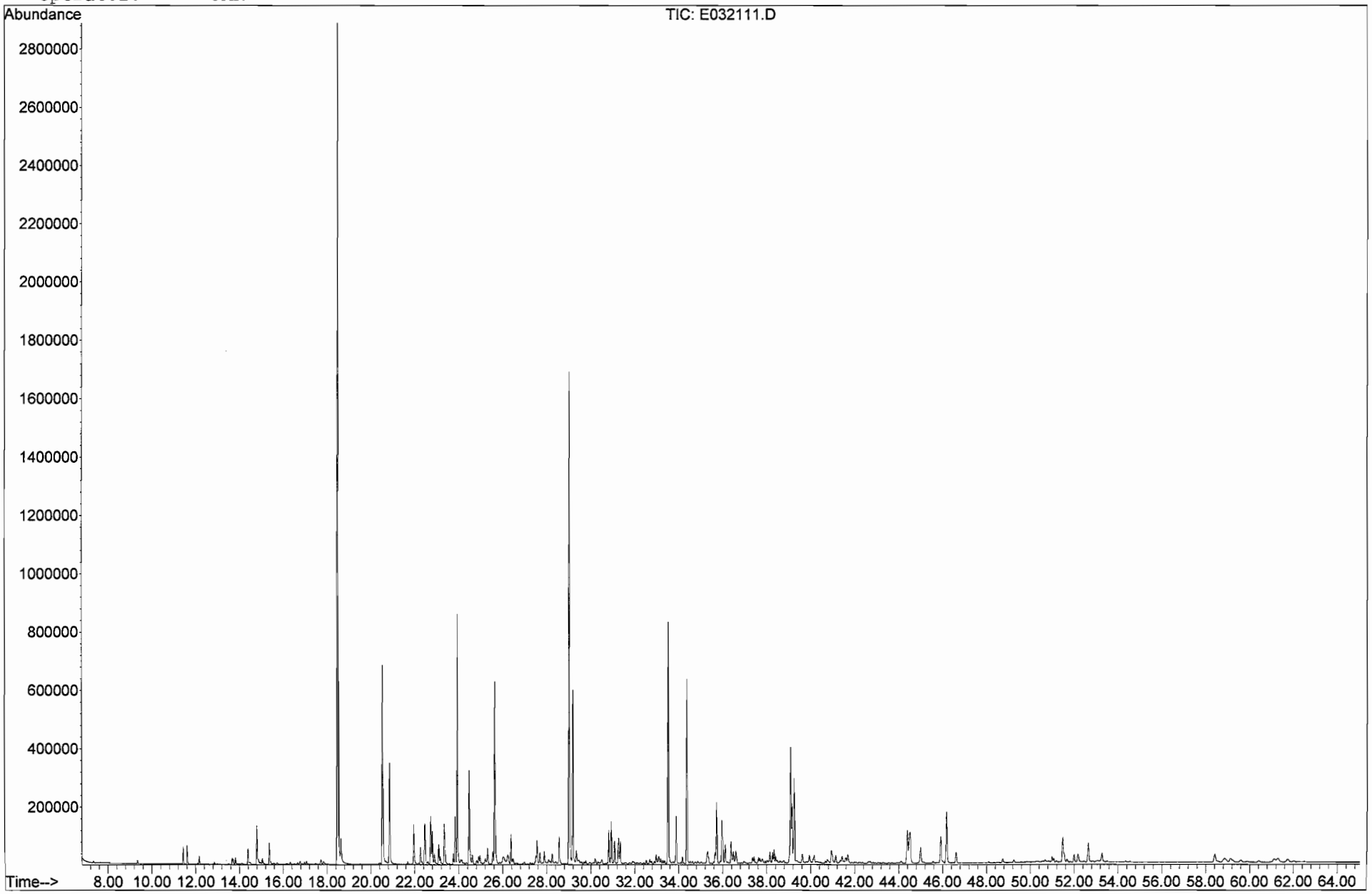
File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

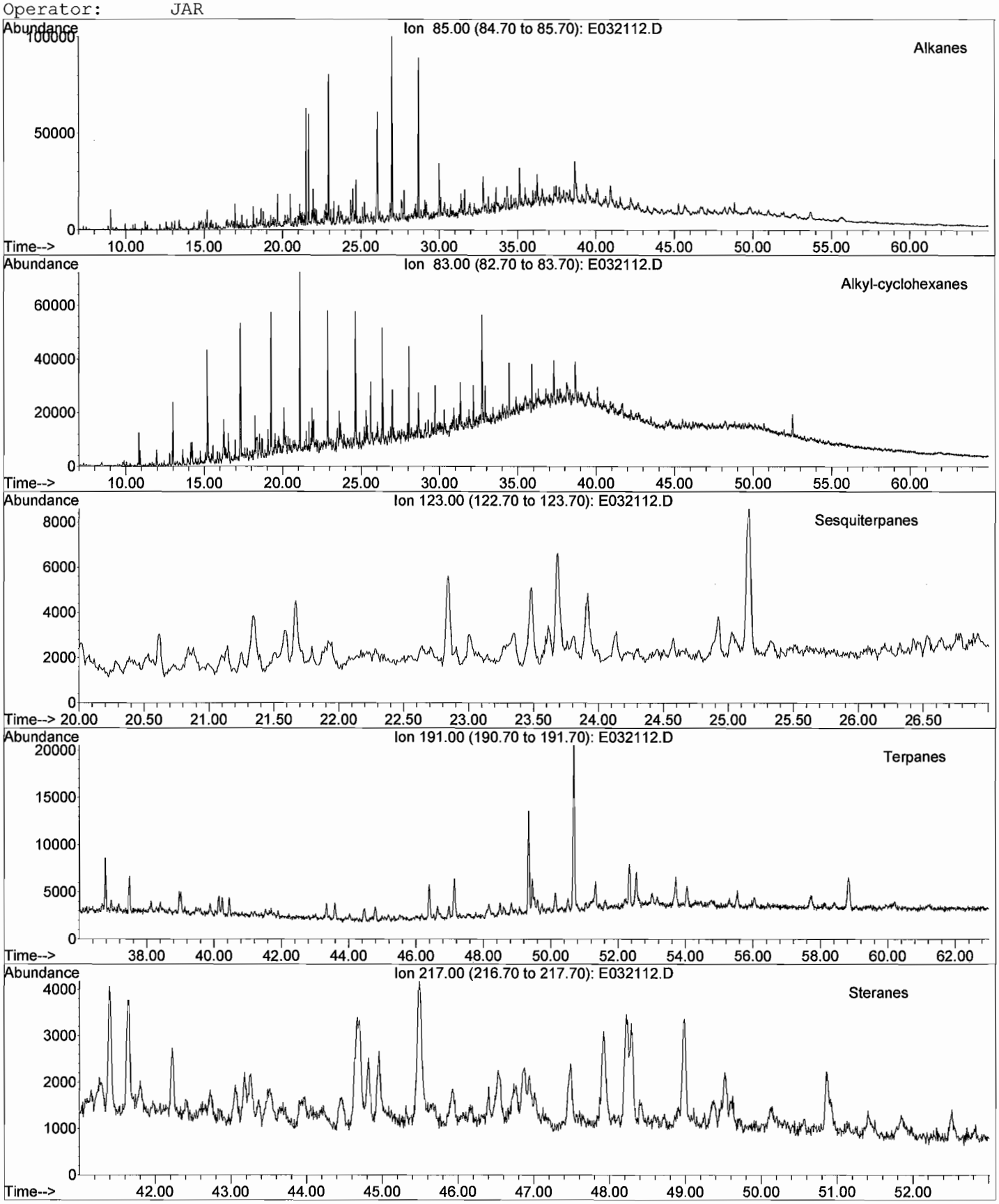
File: J:\1\DATA\E070321\E032111.D
Date Acquired: 22 Mar 2007 2:31 am
Method File: 4008SIM2.M
Sample Name: BR070313-08-D2
Misc Info: CRAW-CSB042-001 (2.2'-2.9')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

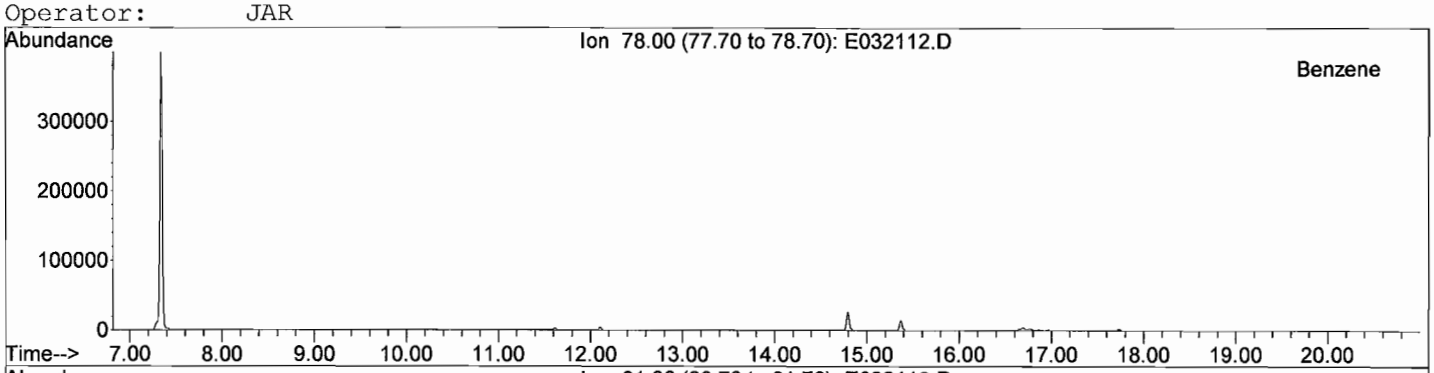
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR

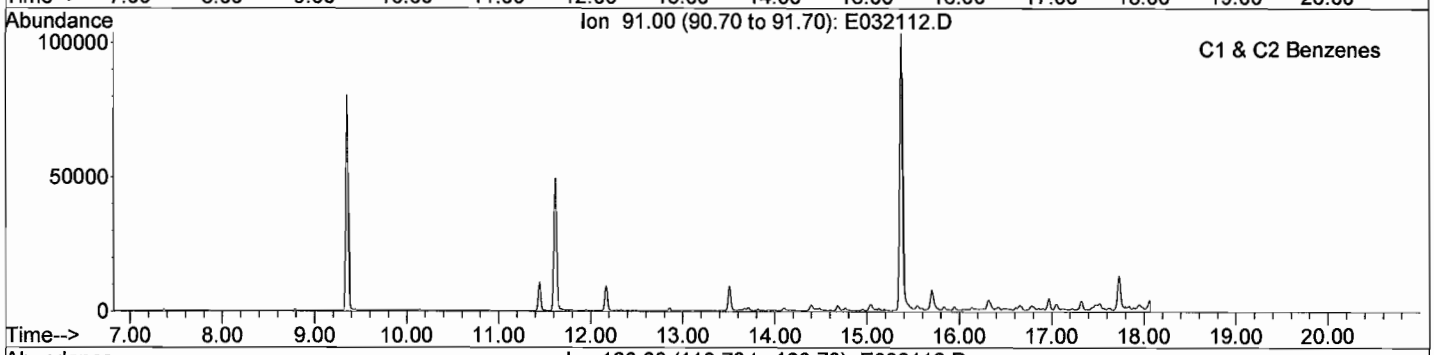


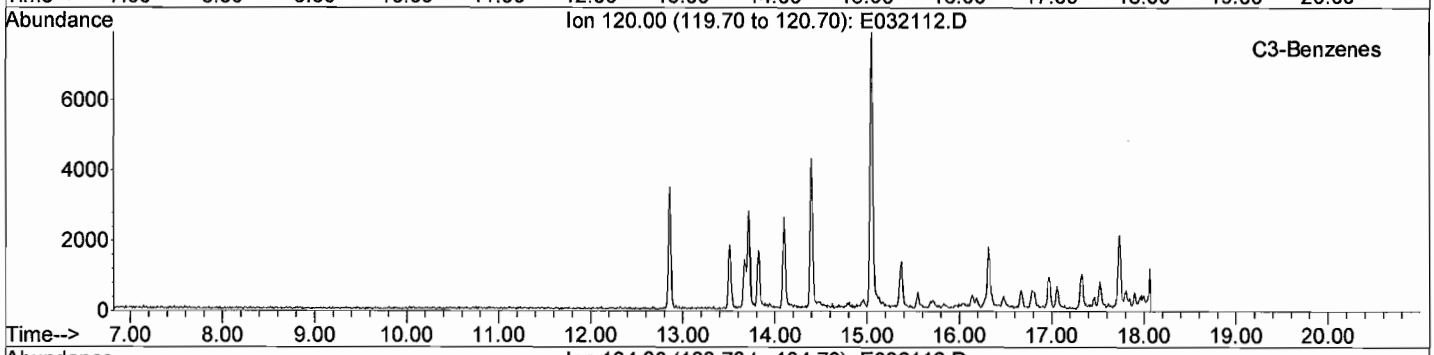
META Environmental, Inc.

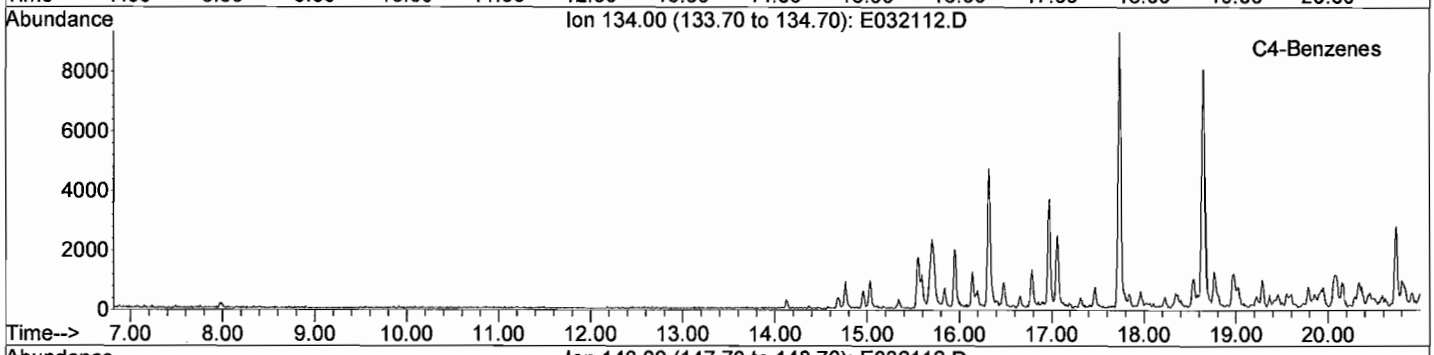
GC/MS EXTRACTED ION CHROMATOGRAM

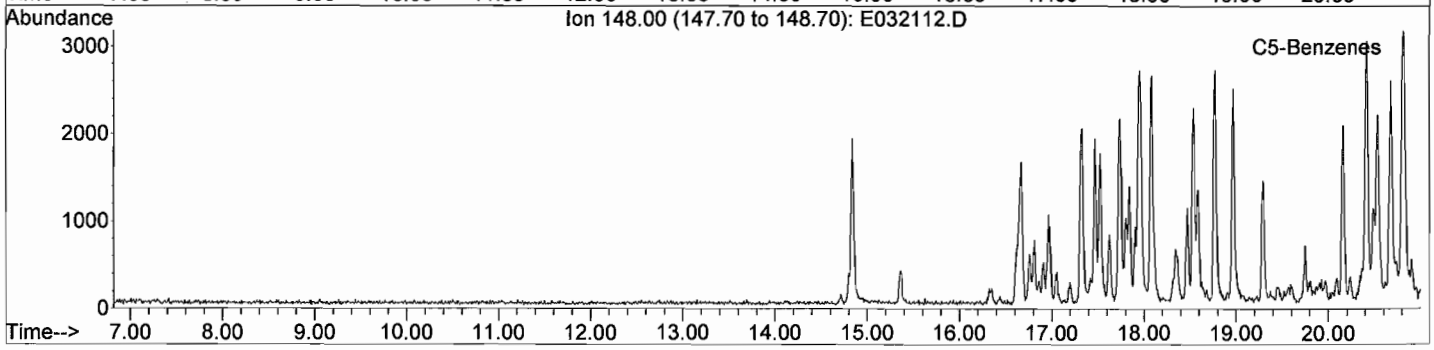
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR







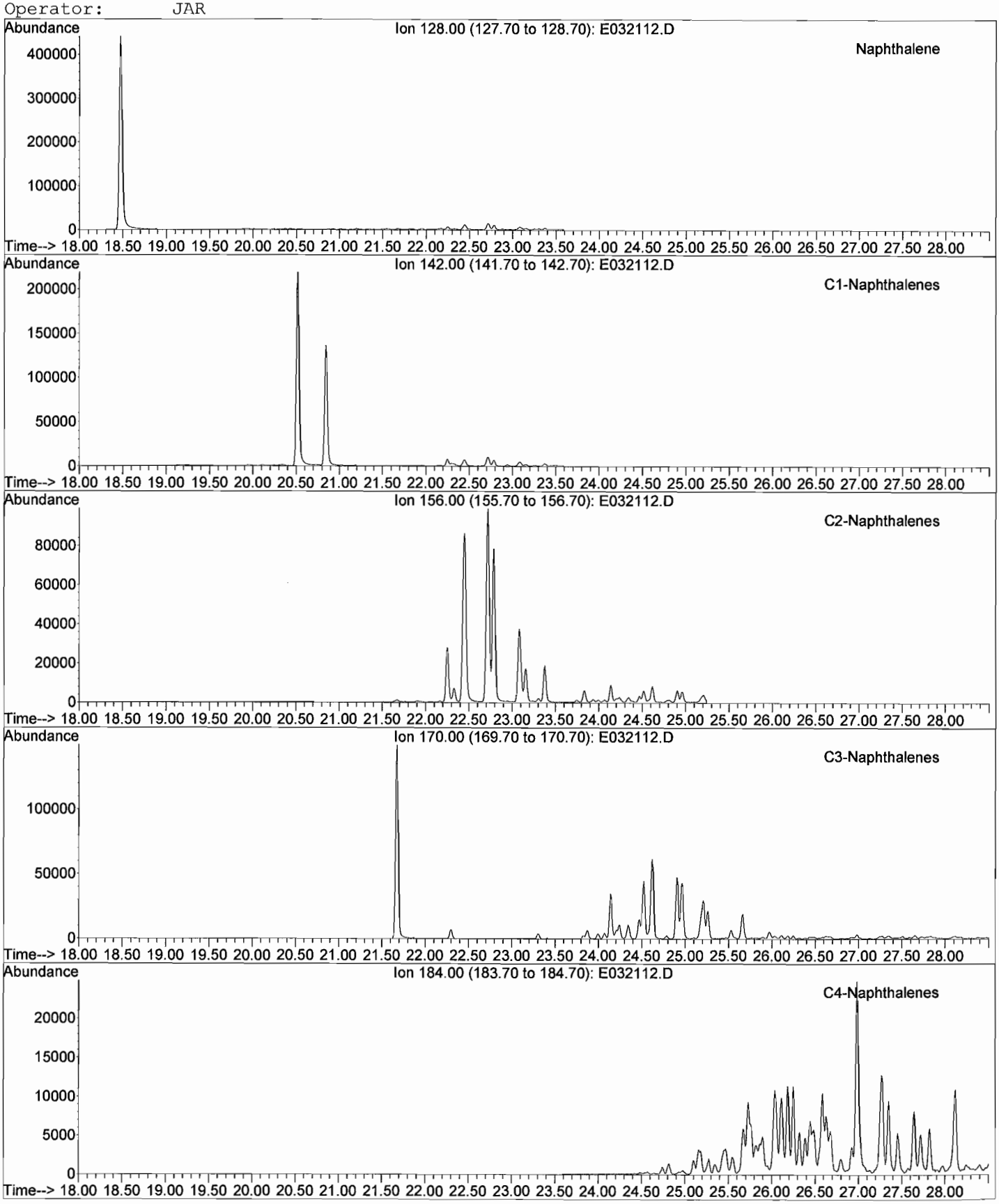




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

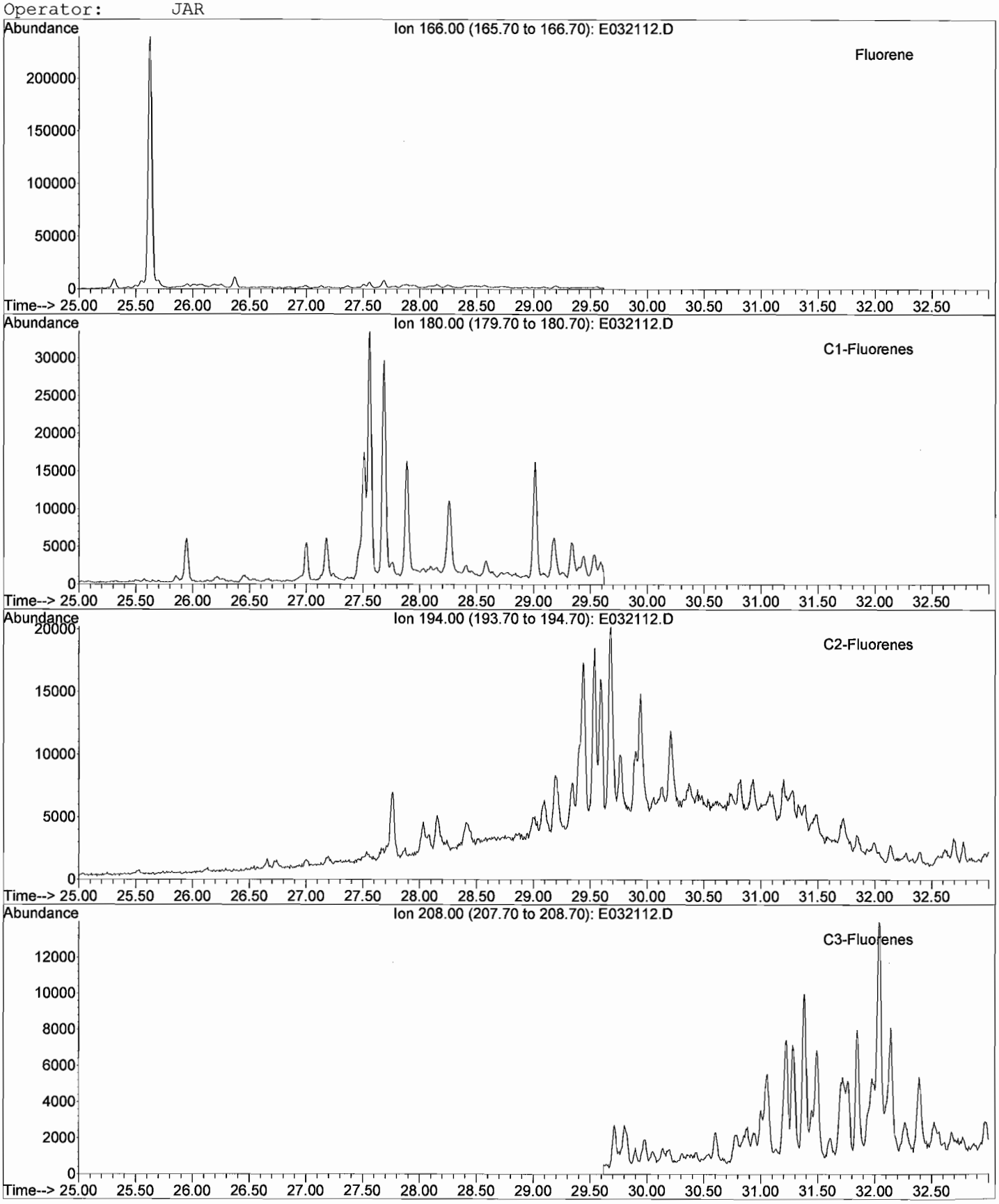
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

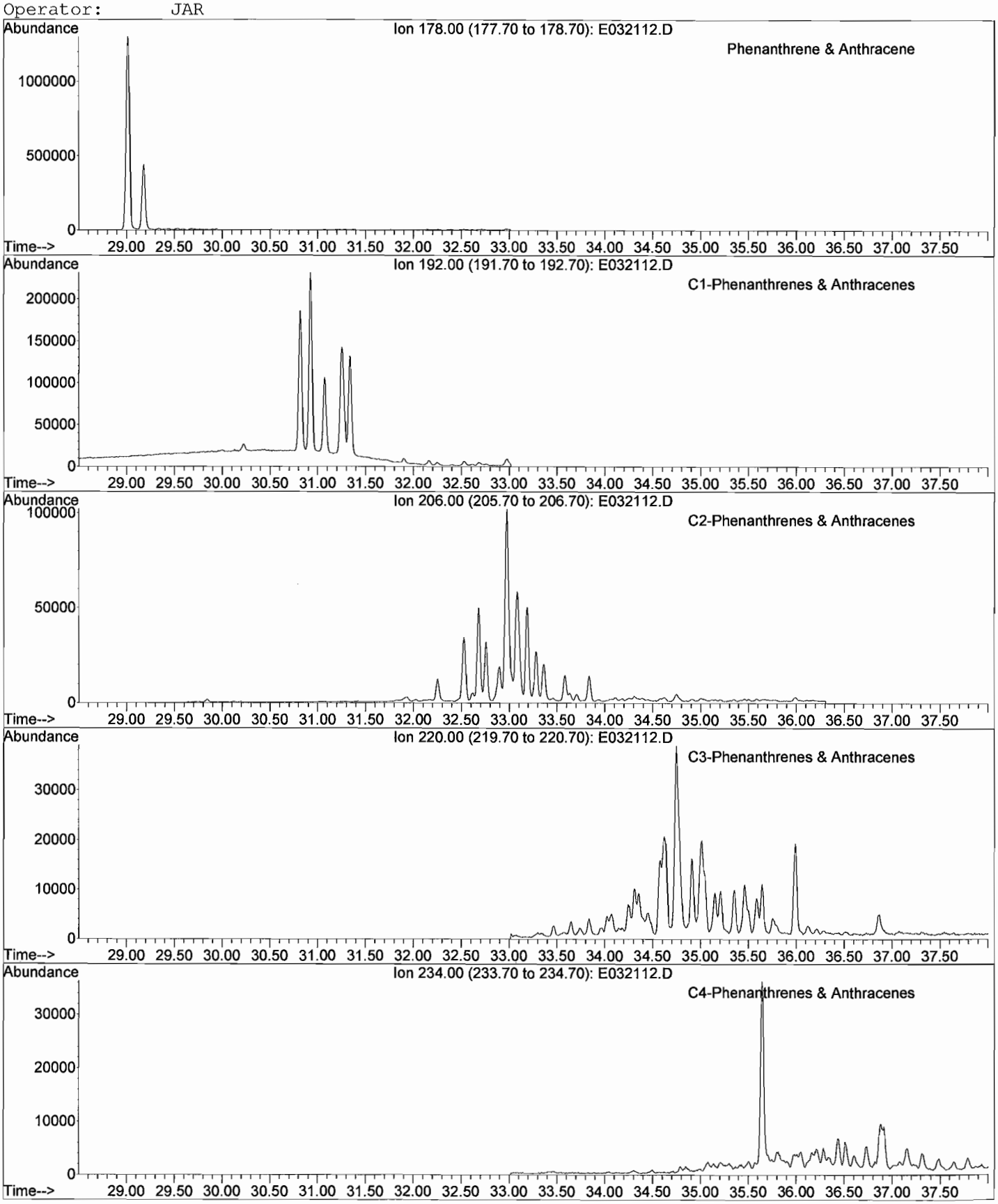
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

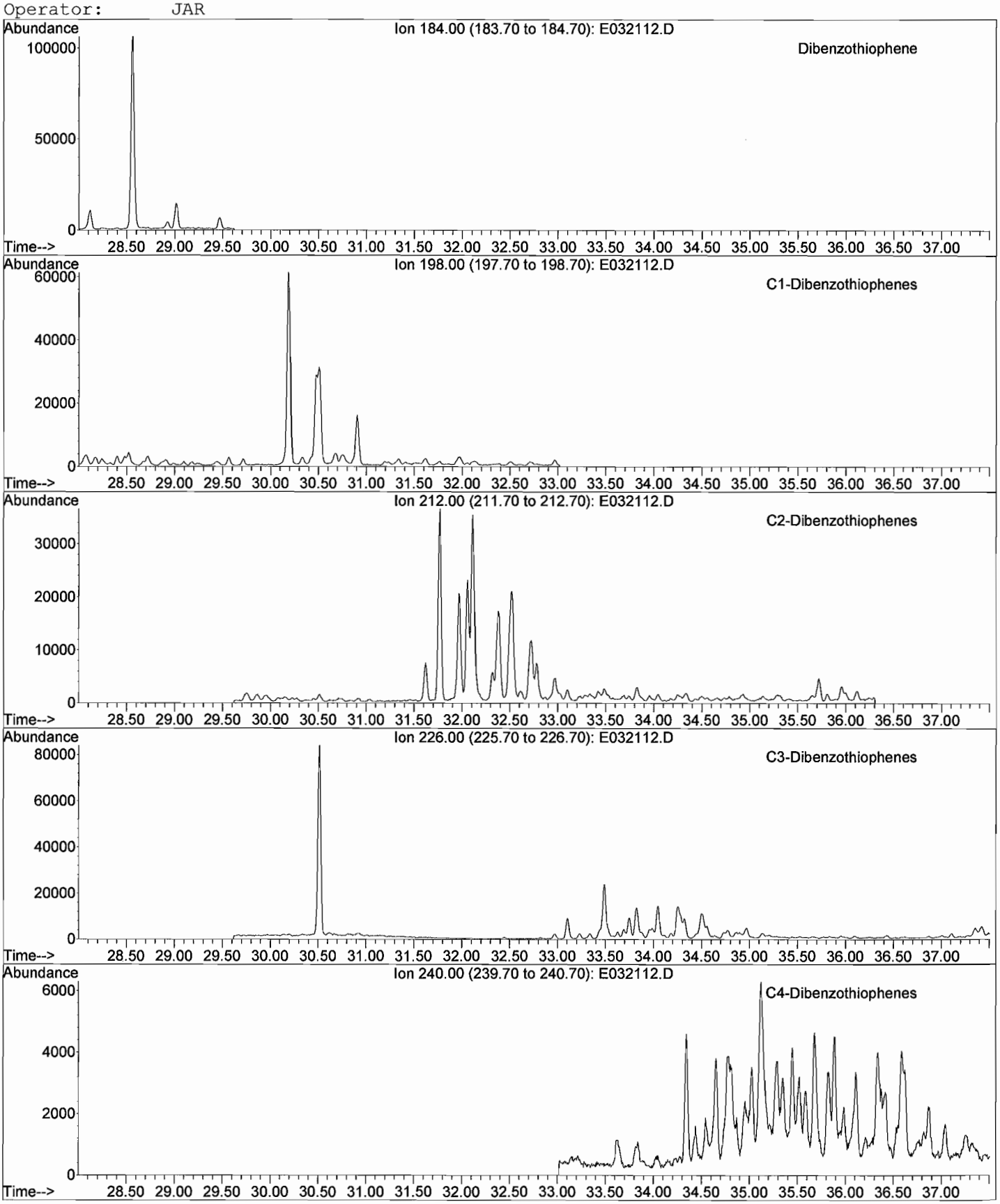
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
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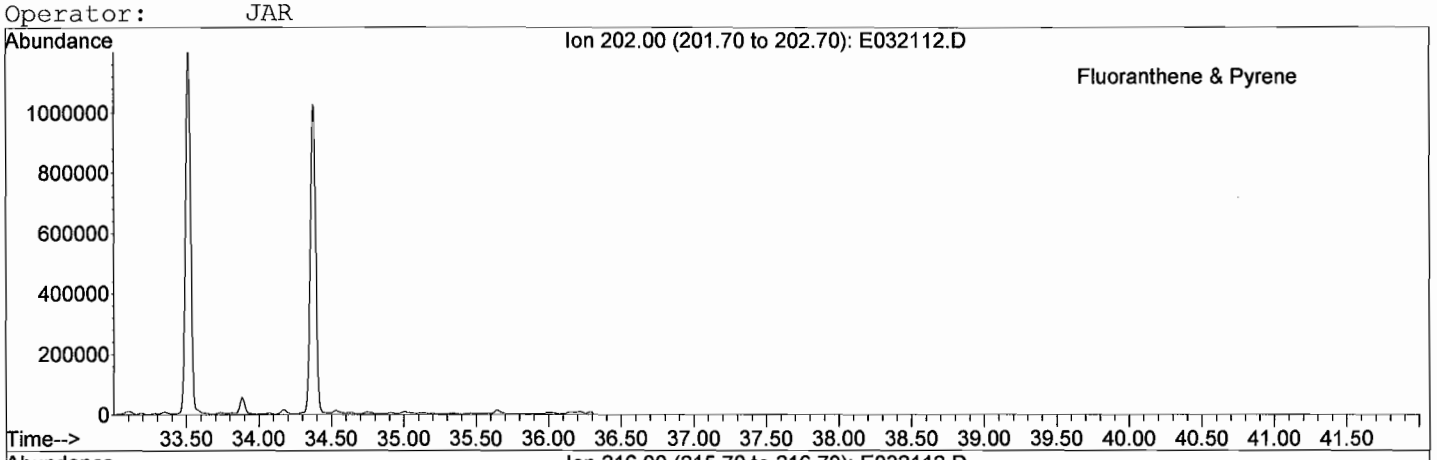
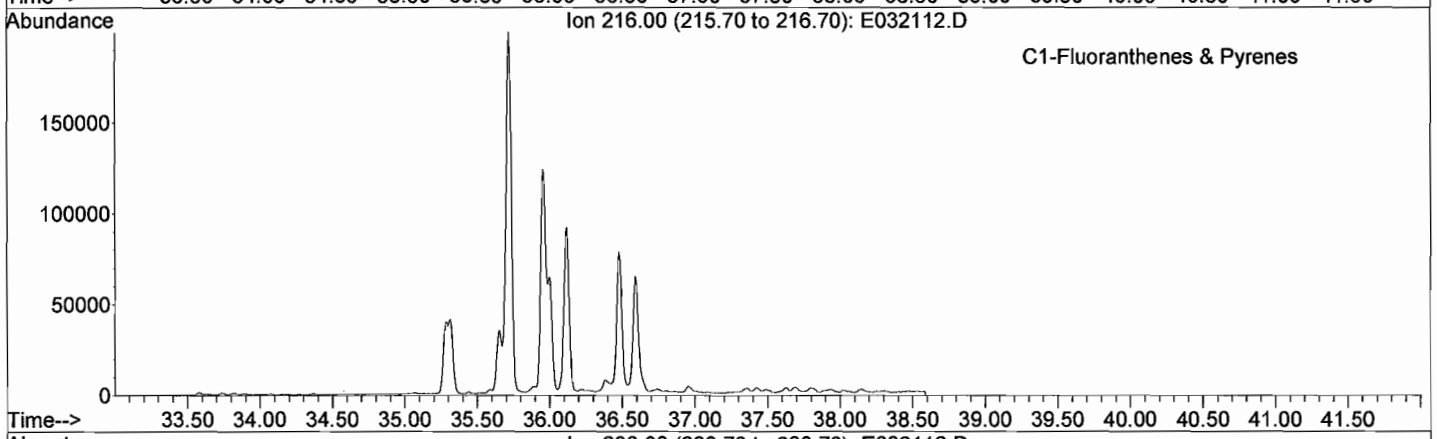
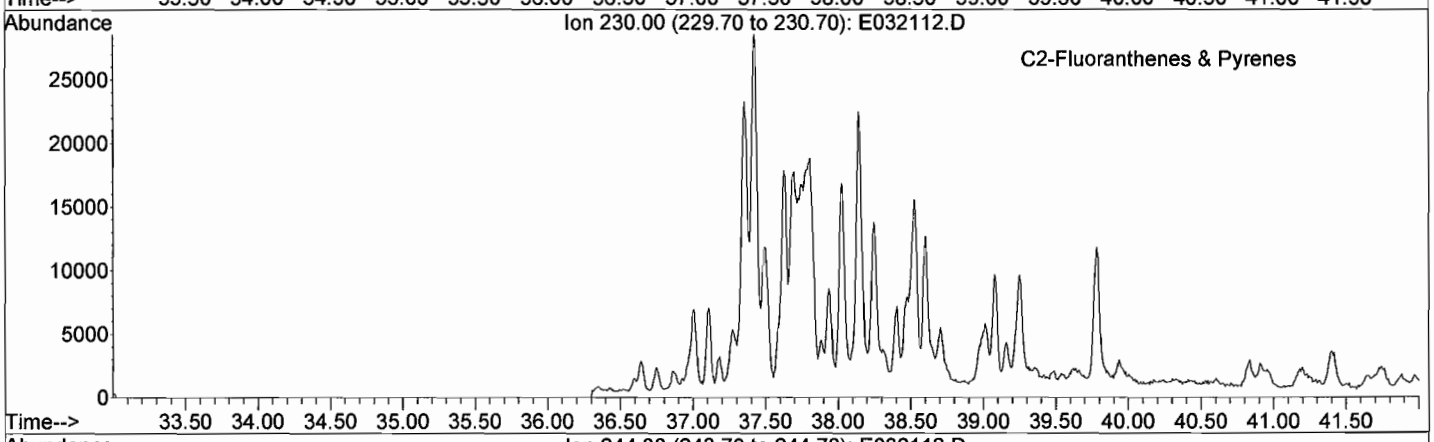
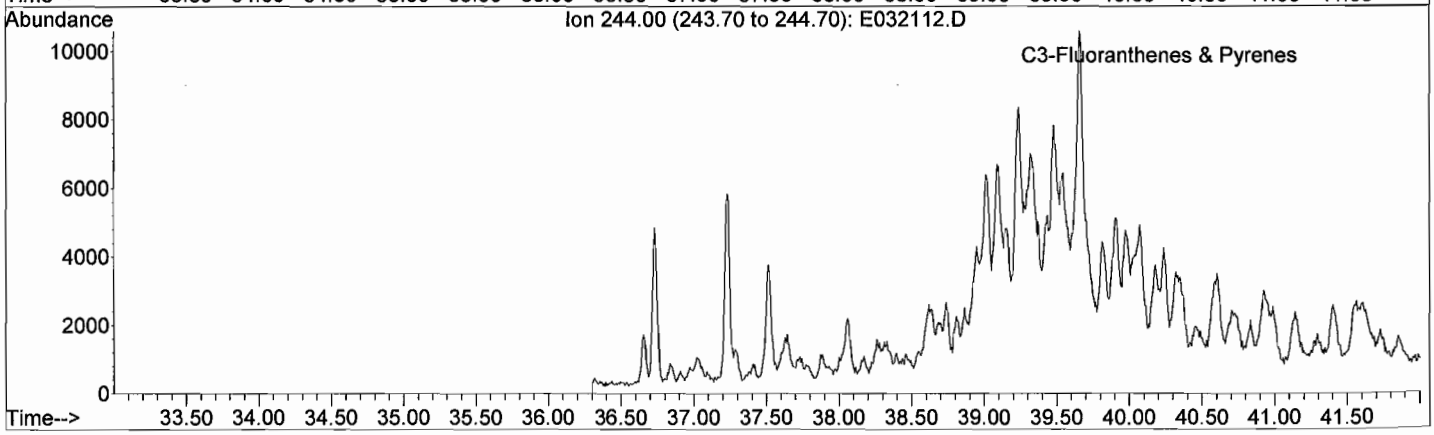
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR





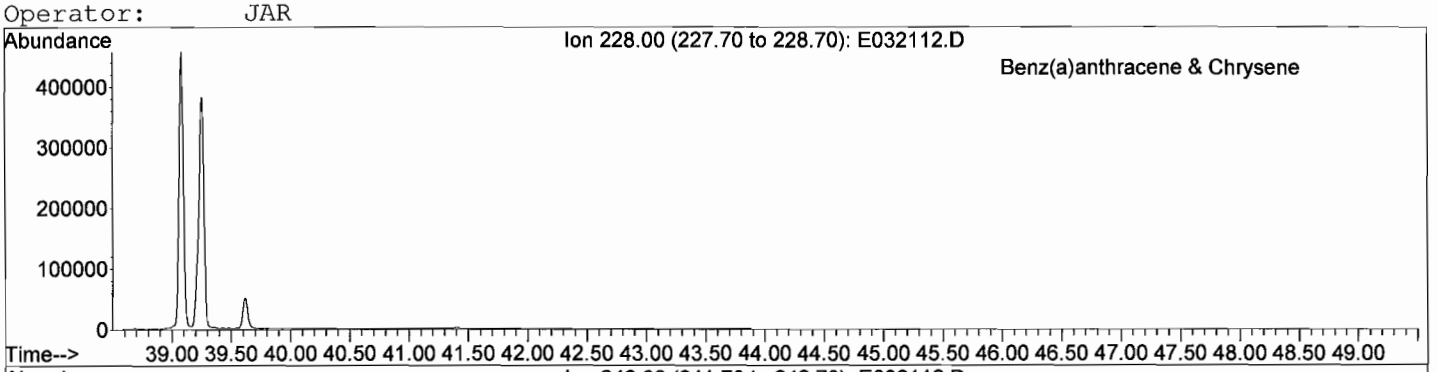


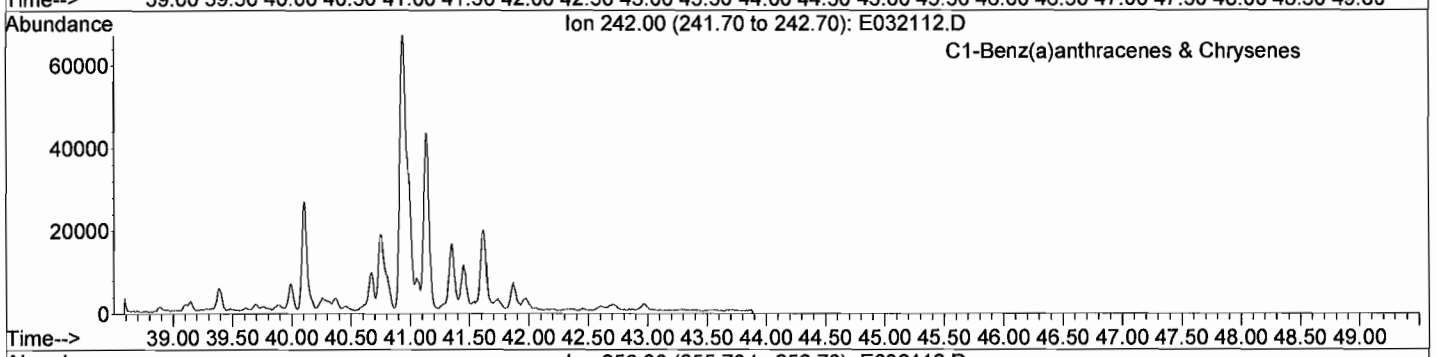


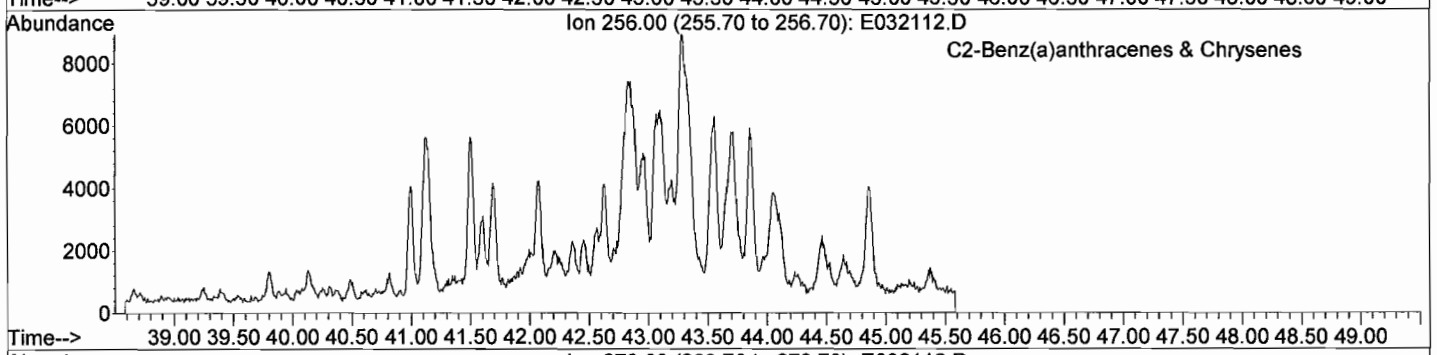
META Environmental, Inc.

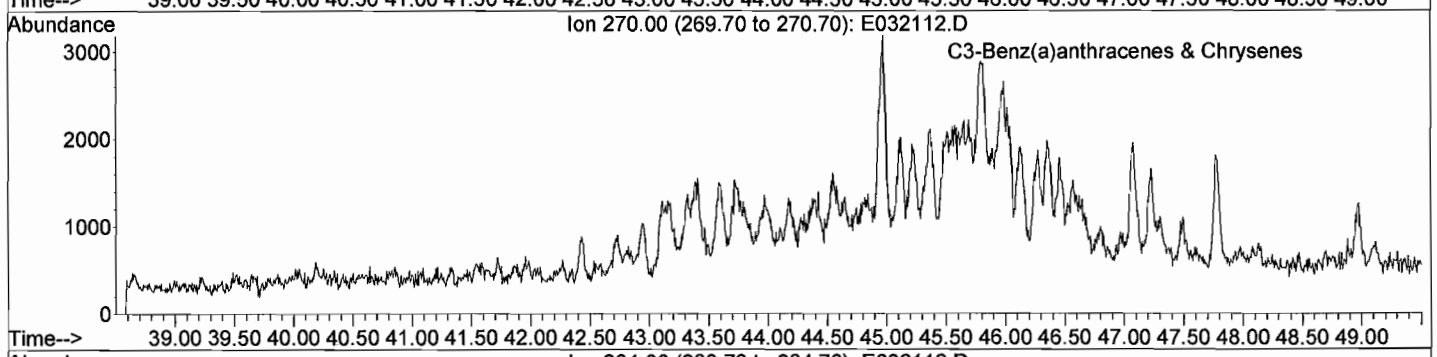
GC/MS EXTRACTED ION CHROMATOGRAM

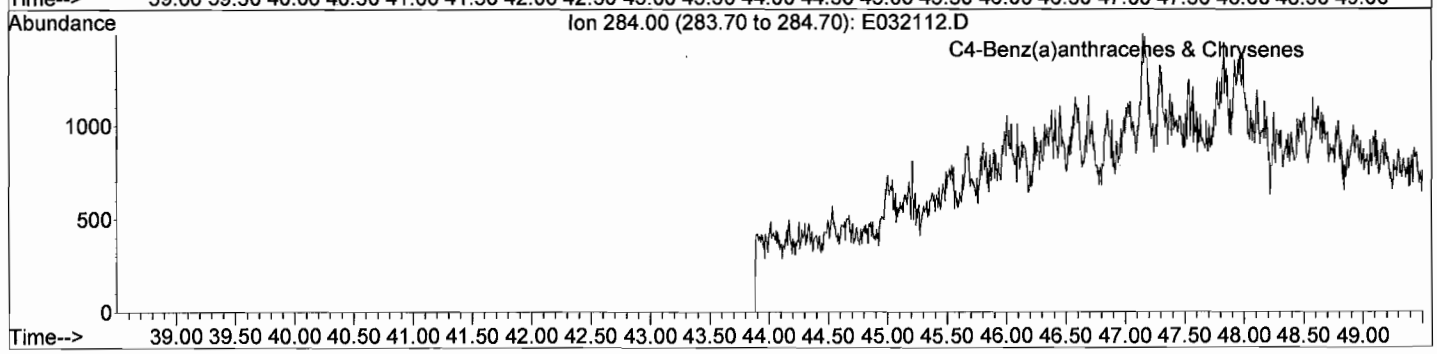
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR







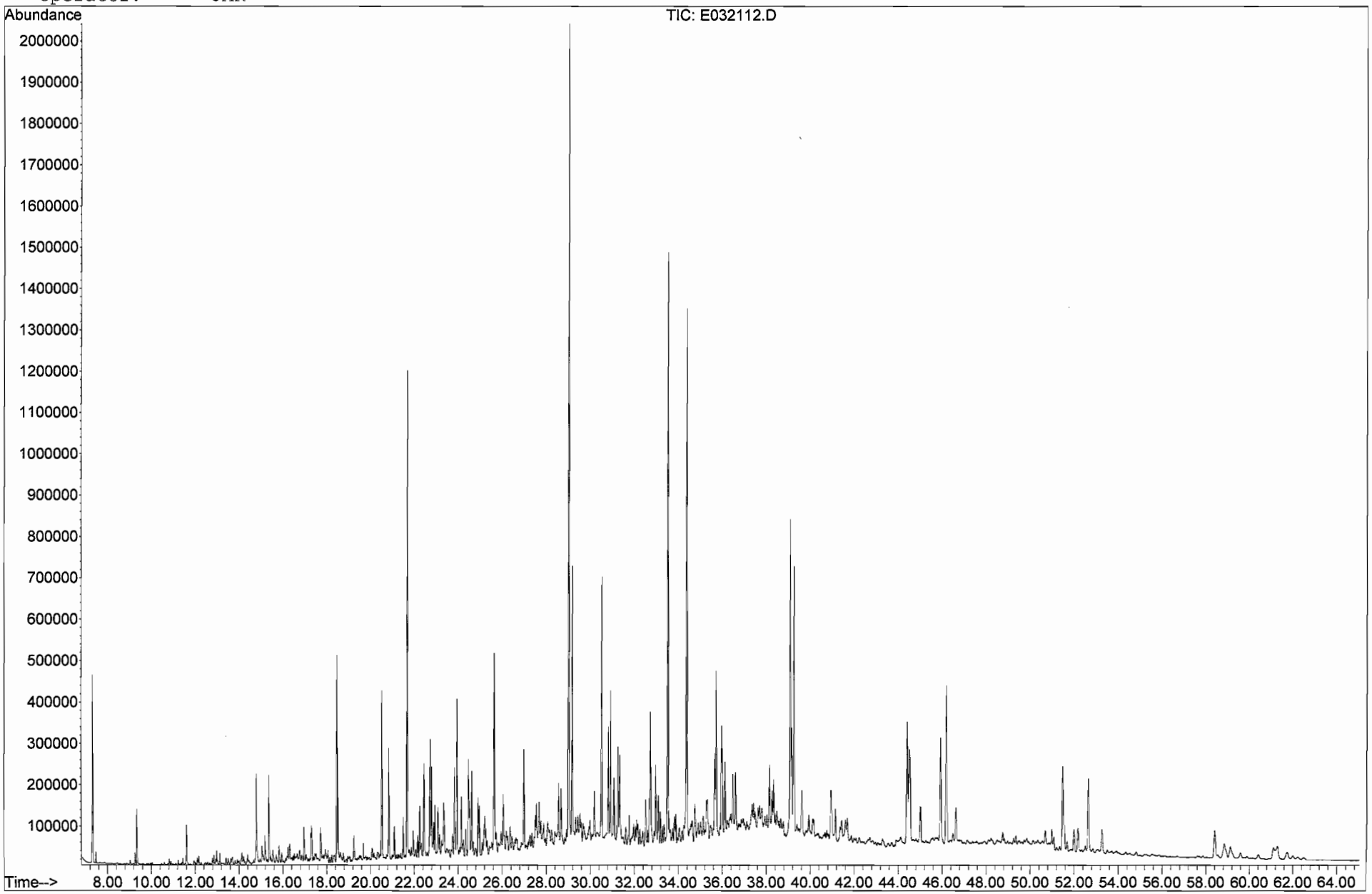




META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

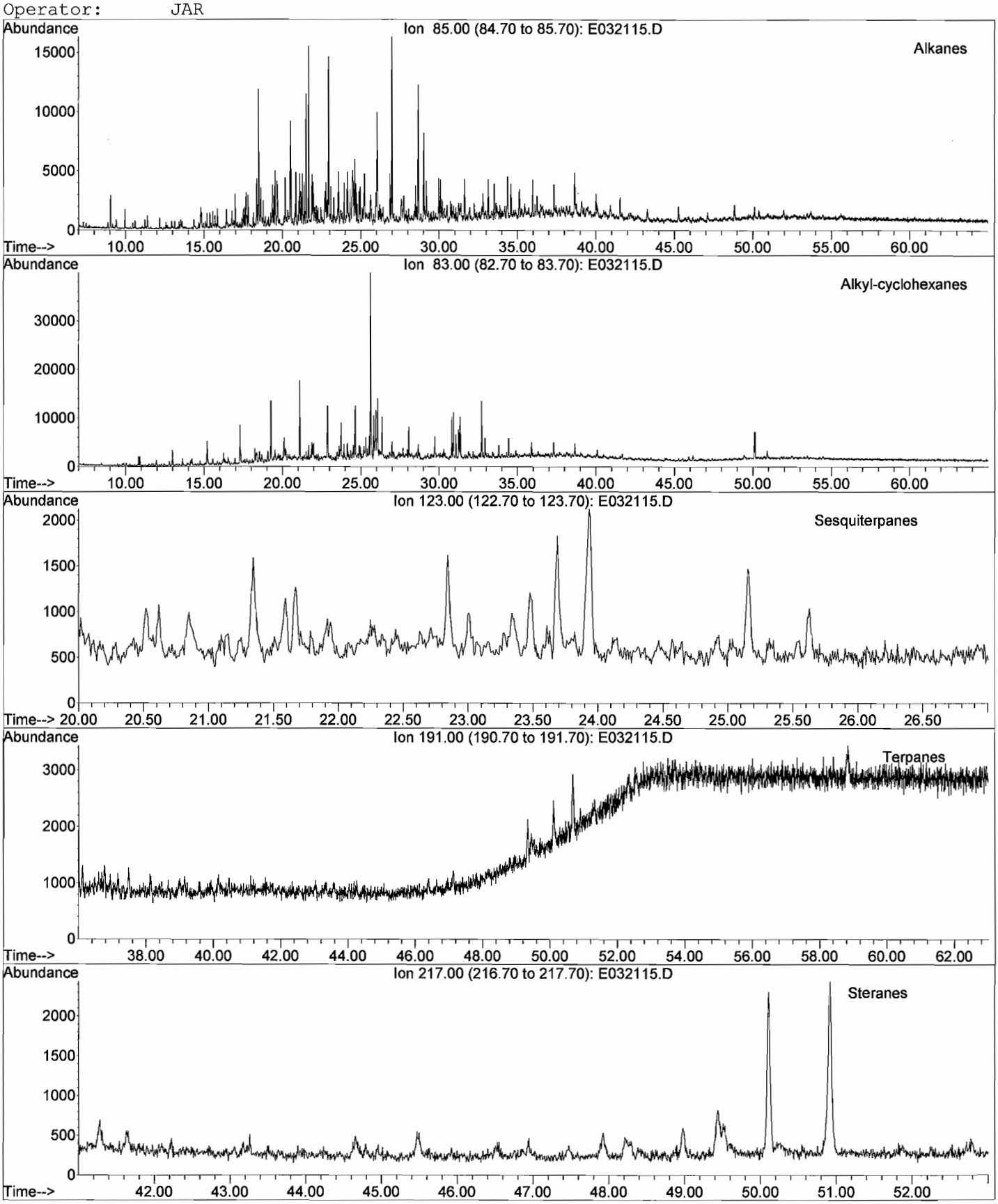
File: J:\1\DATA\E070321\E032112.D
Date Acquired: 22 Mar 2007 3:47 am
Method File: 4008SIM2.M
Sample Name: BR070313-09-D
Misc Info: CRAW-CSB042-002 (4.8'-5.5')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

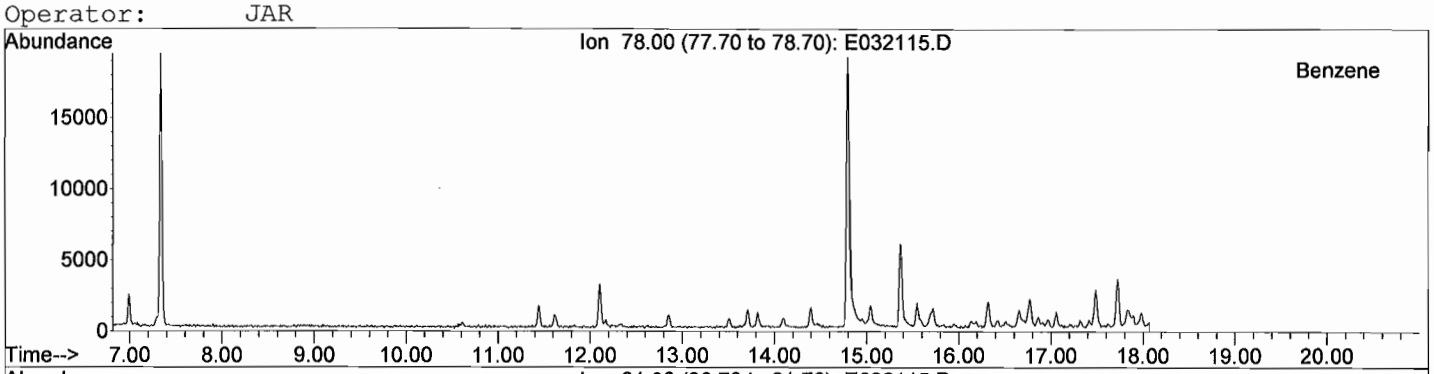
File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR

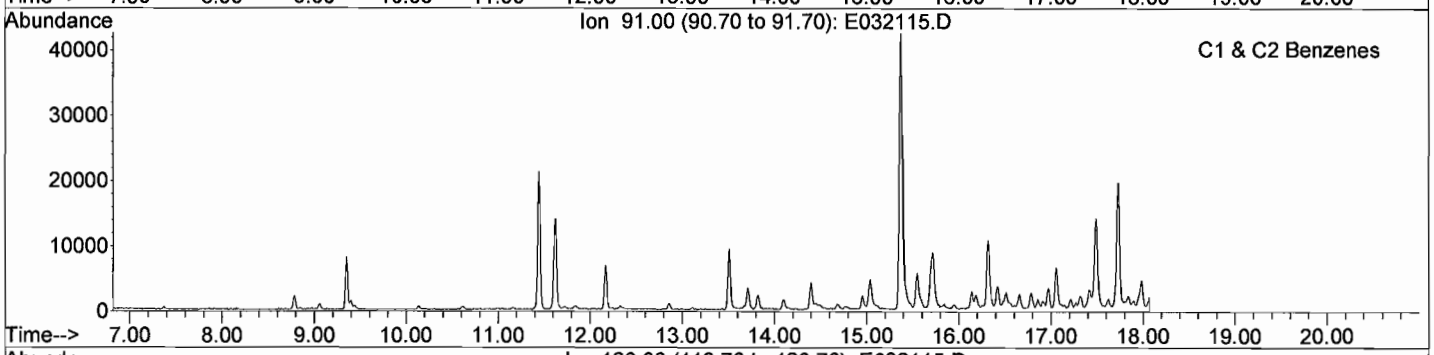


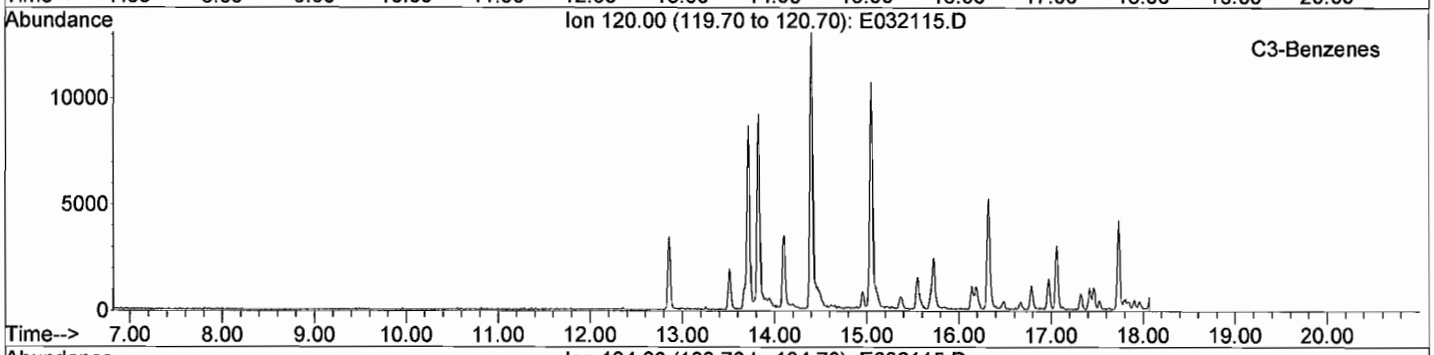
META Environmental, Inc.

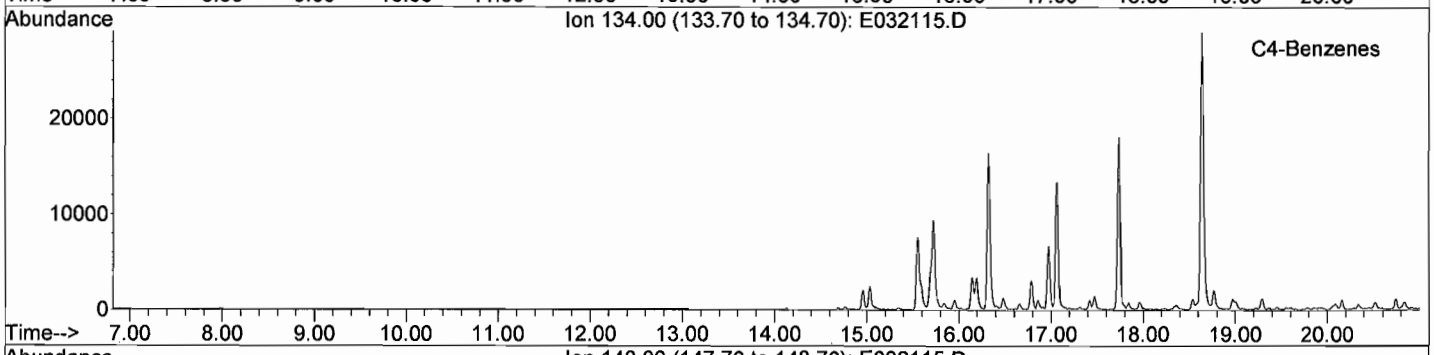
GC/MS EXTRACTED ION CHROMATOGRAM

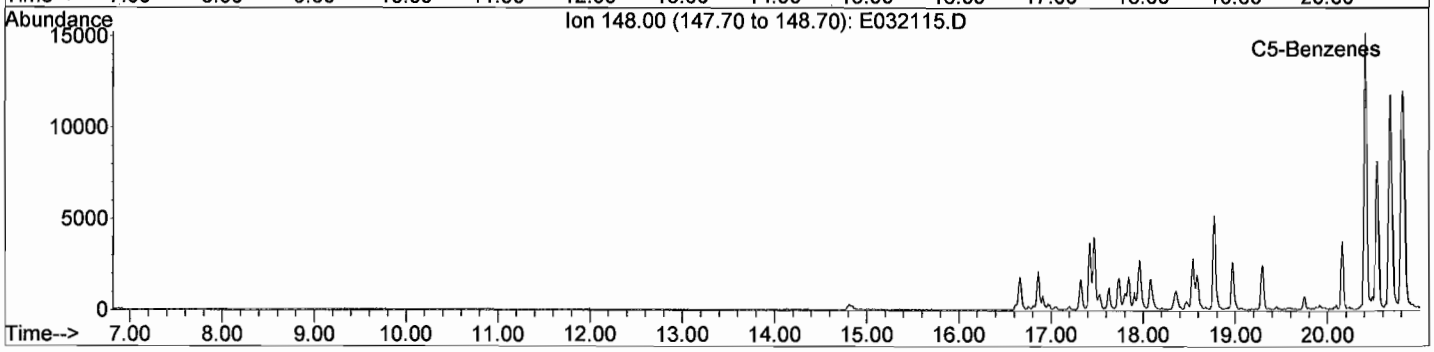
File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR







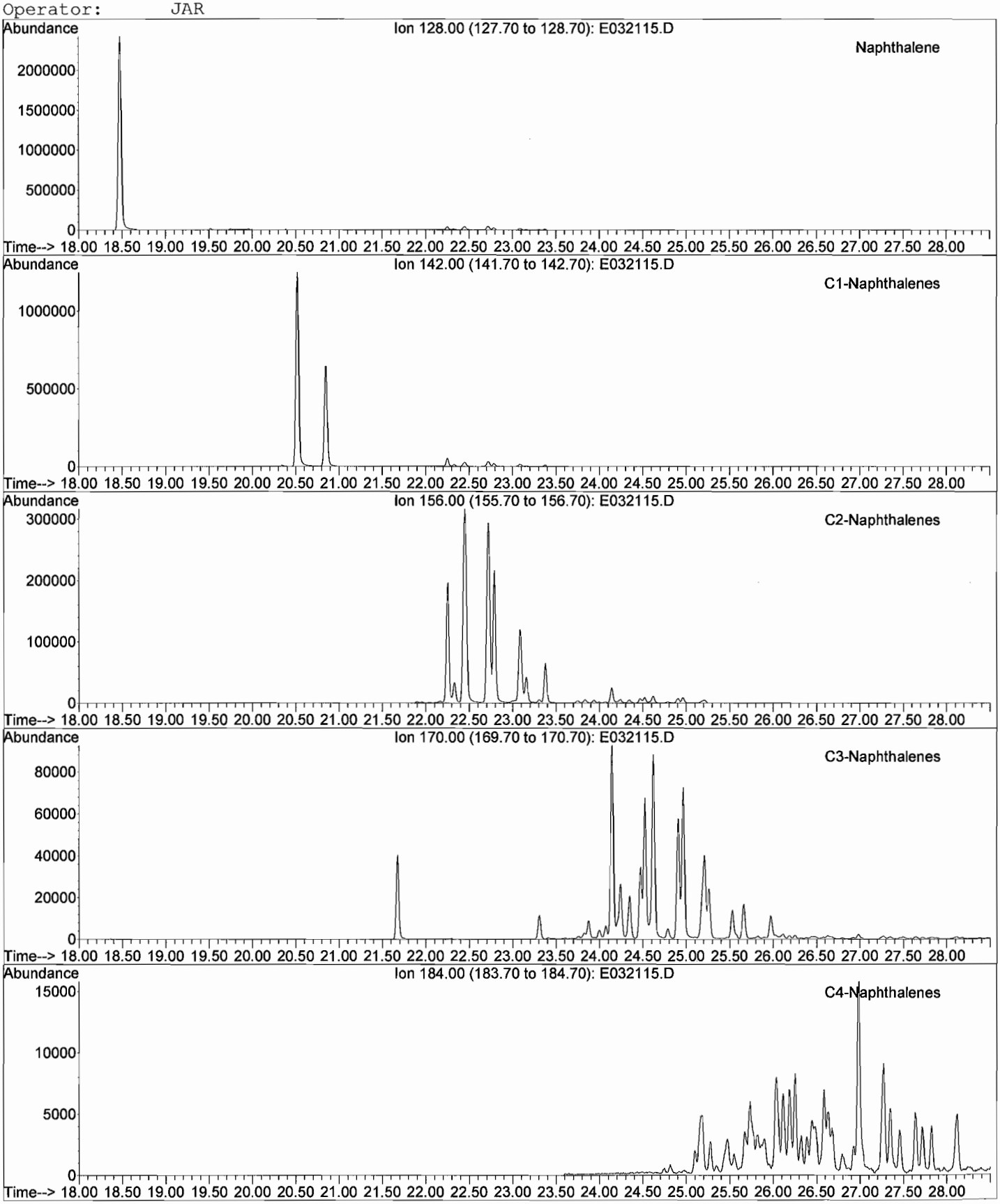




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

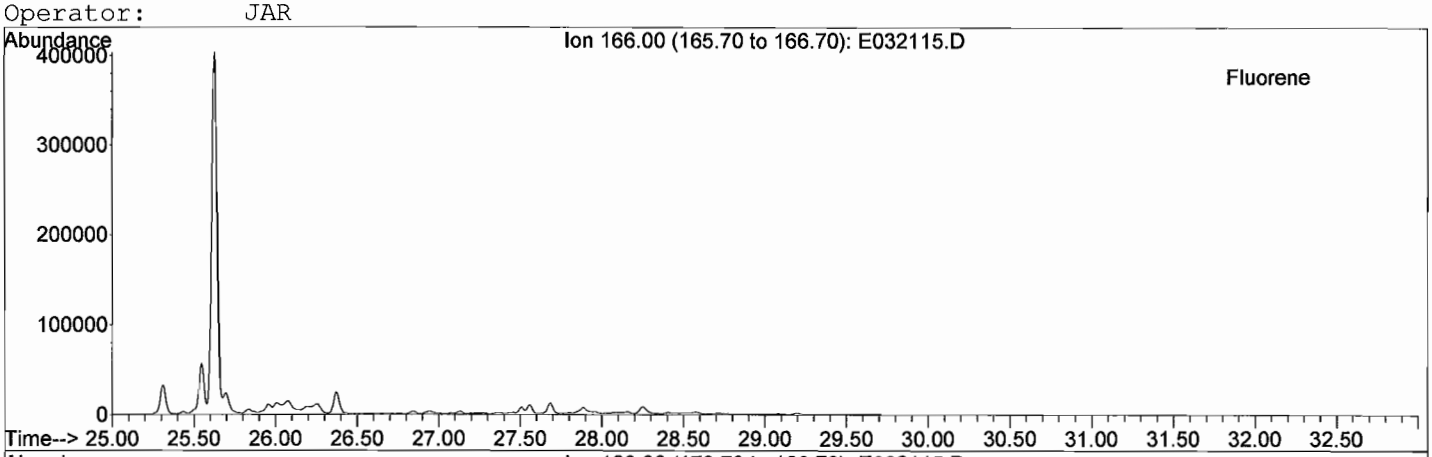
File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR

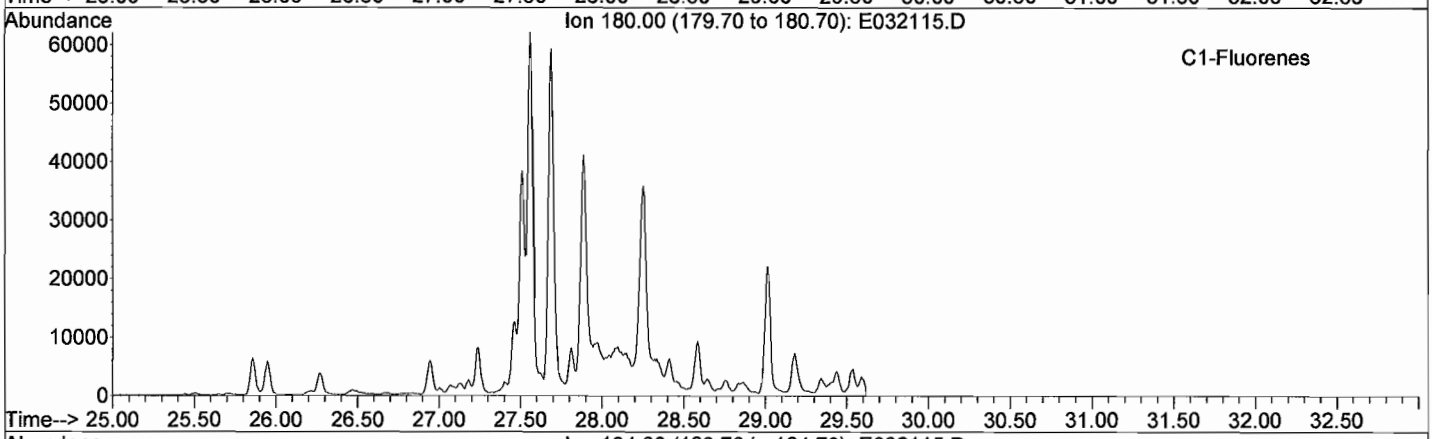


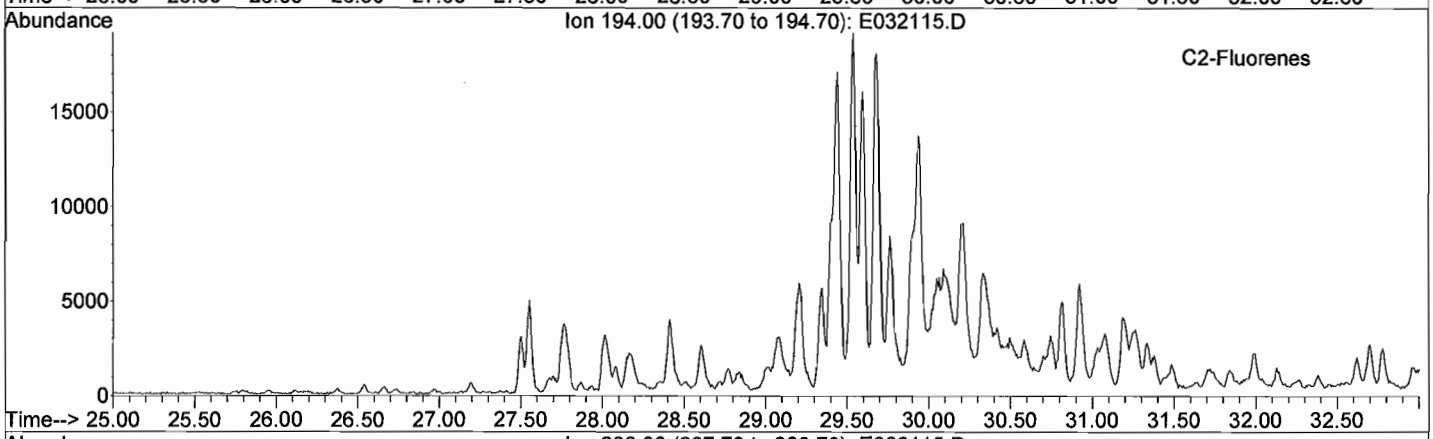
META Environmental, Inc.

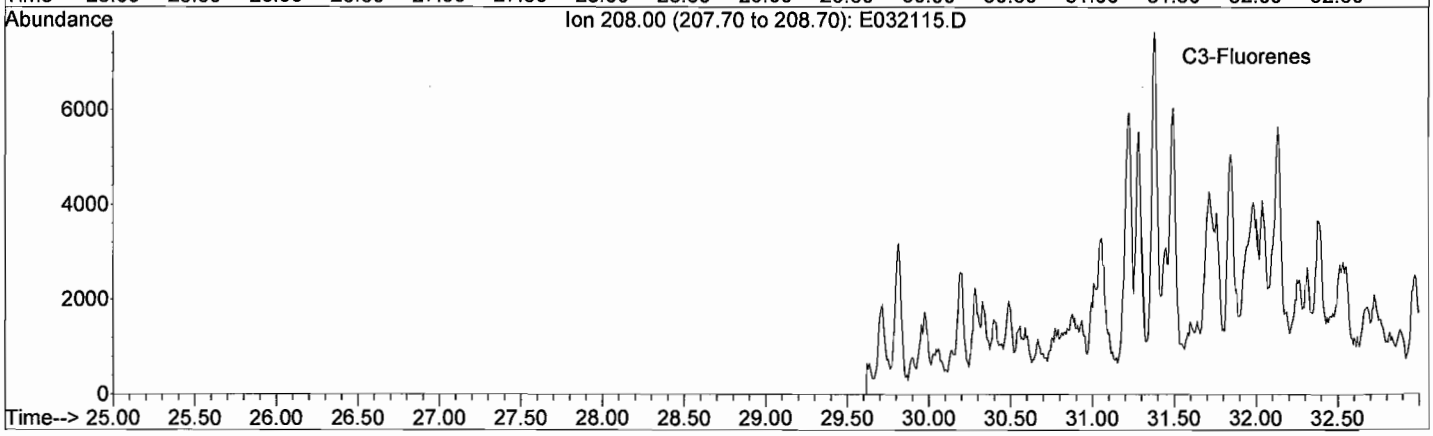
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR









META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
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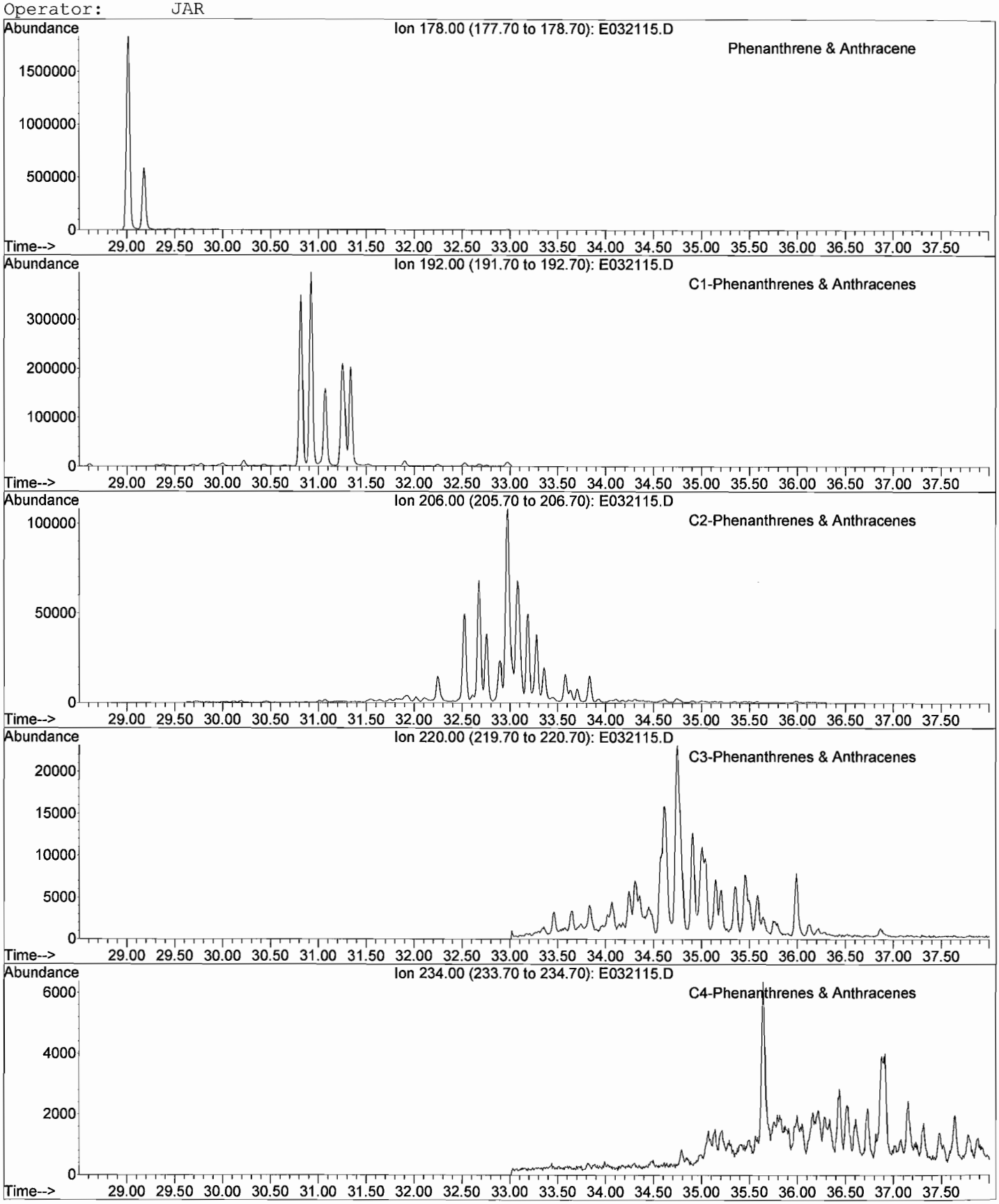
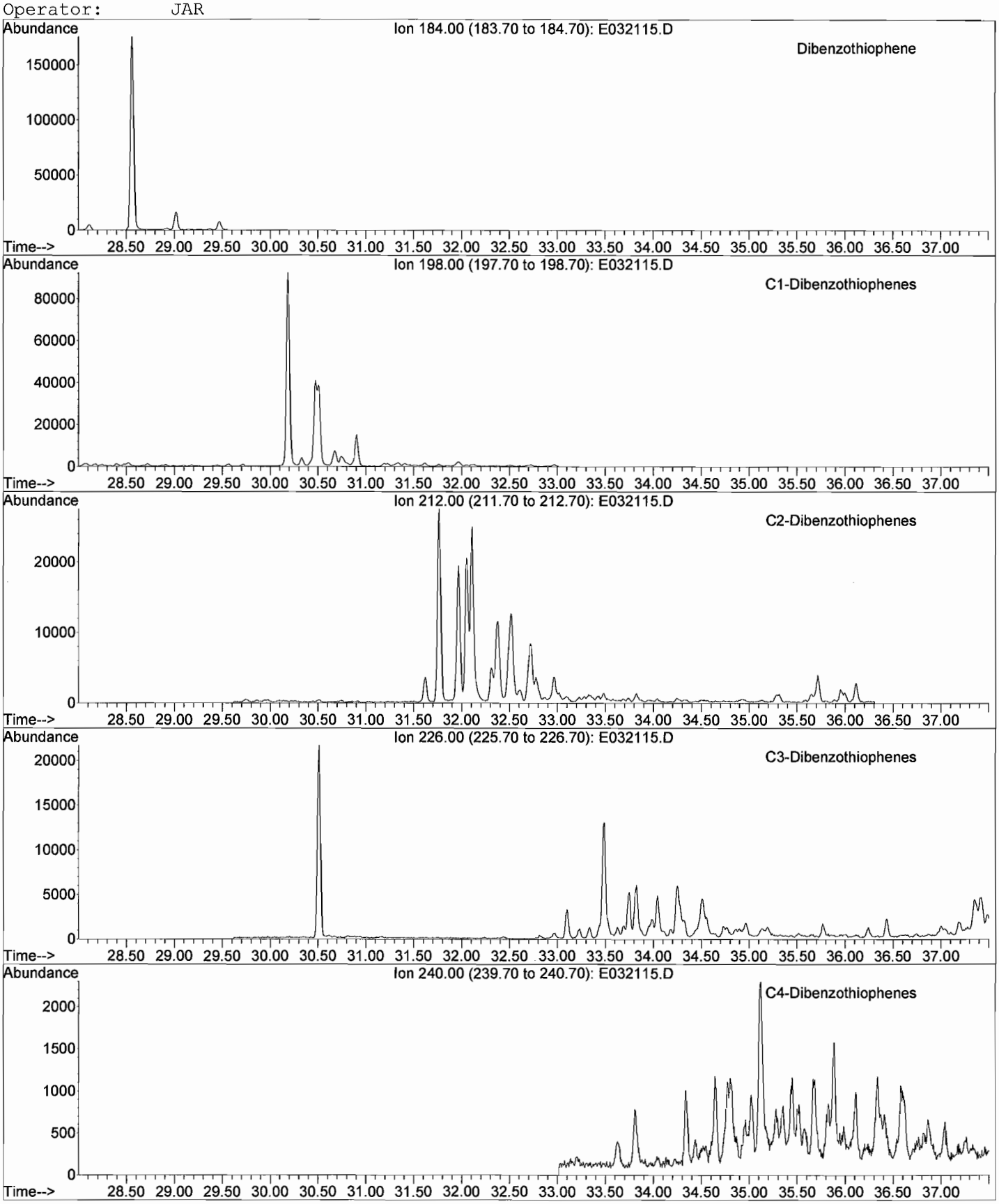
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

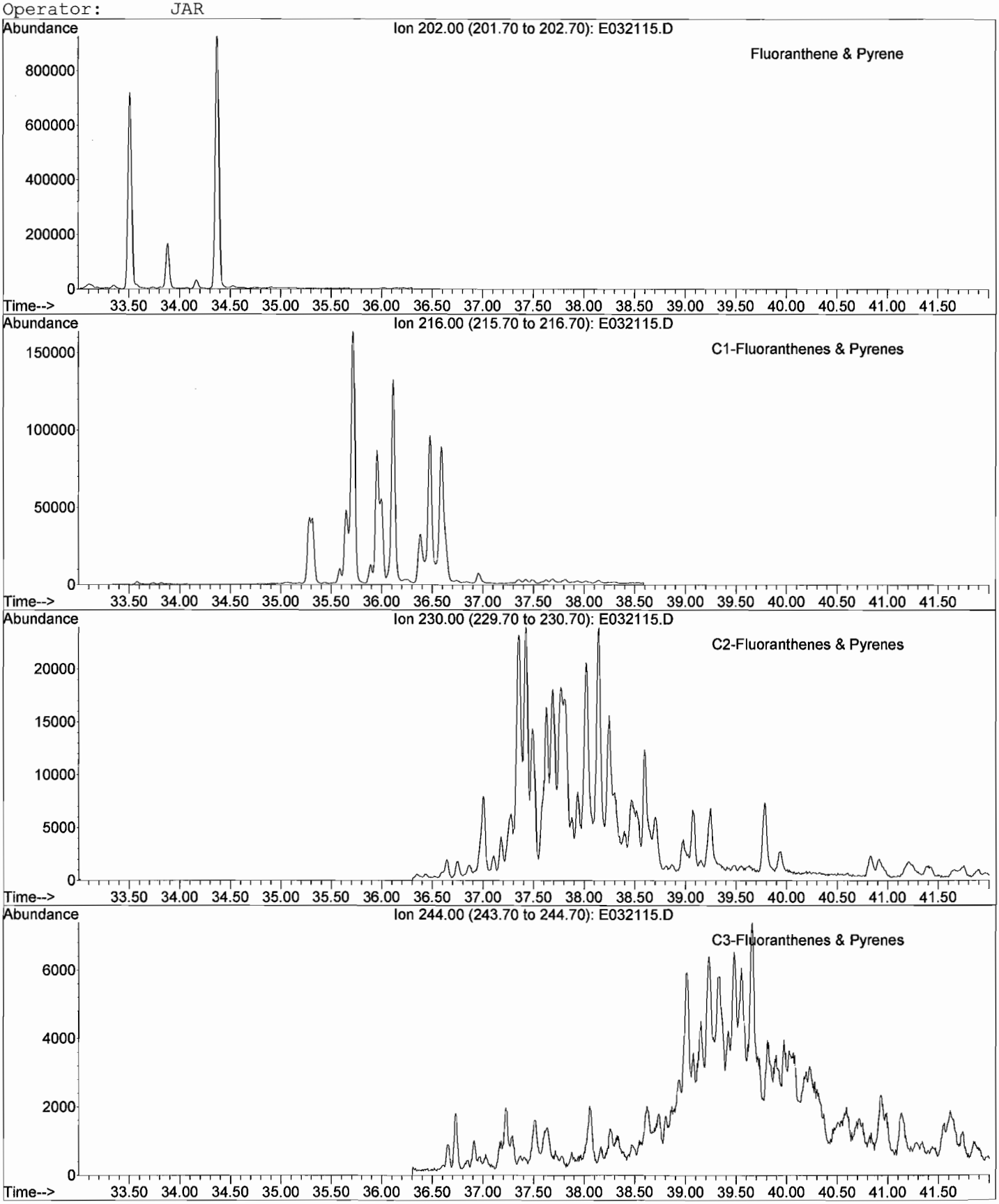
File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
Method File: 4008SIM2.M
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
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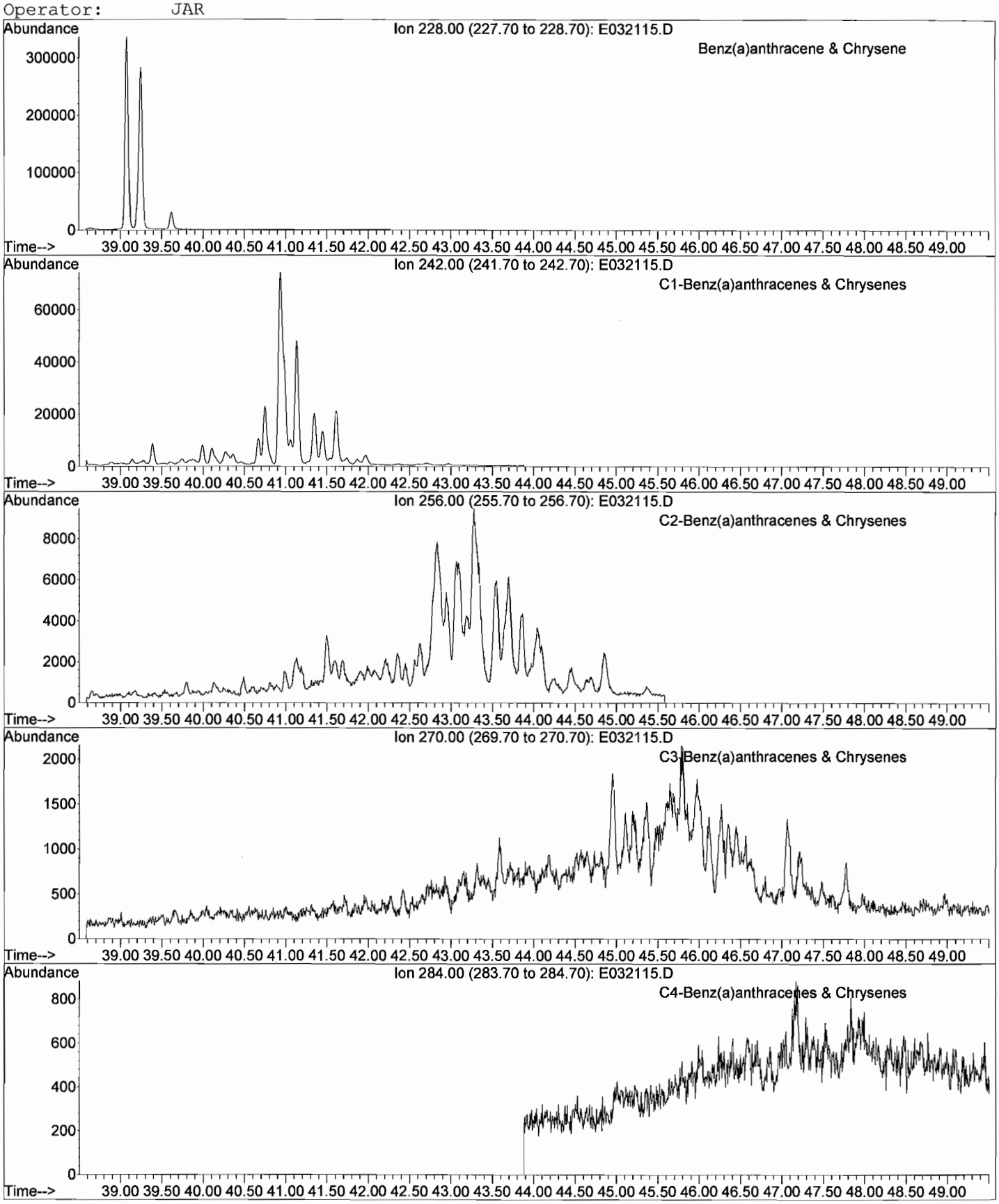
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032115.D
Date Acquired: 22 Mar 2007 7:38 am
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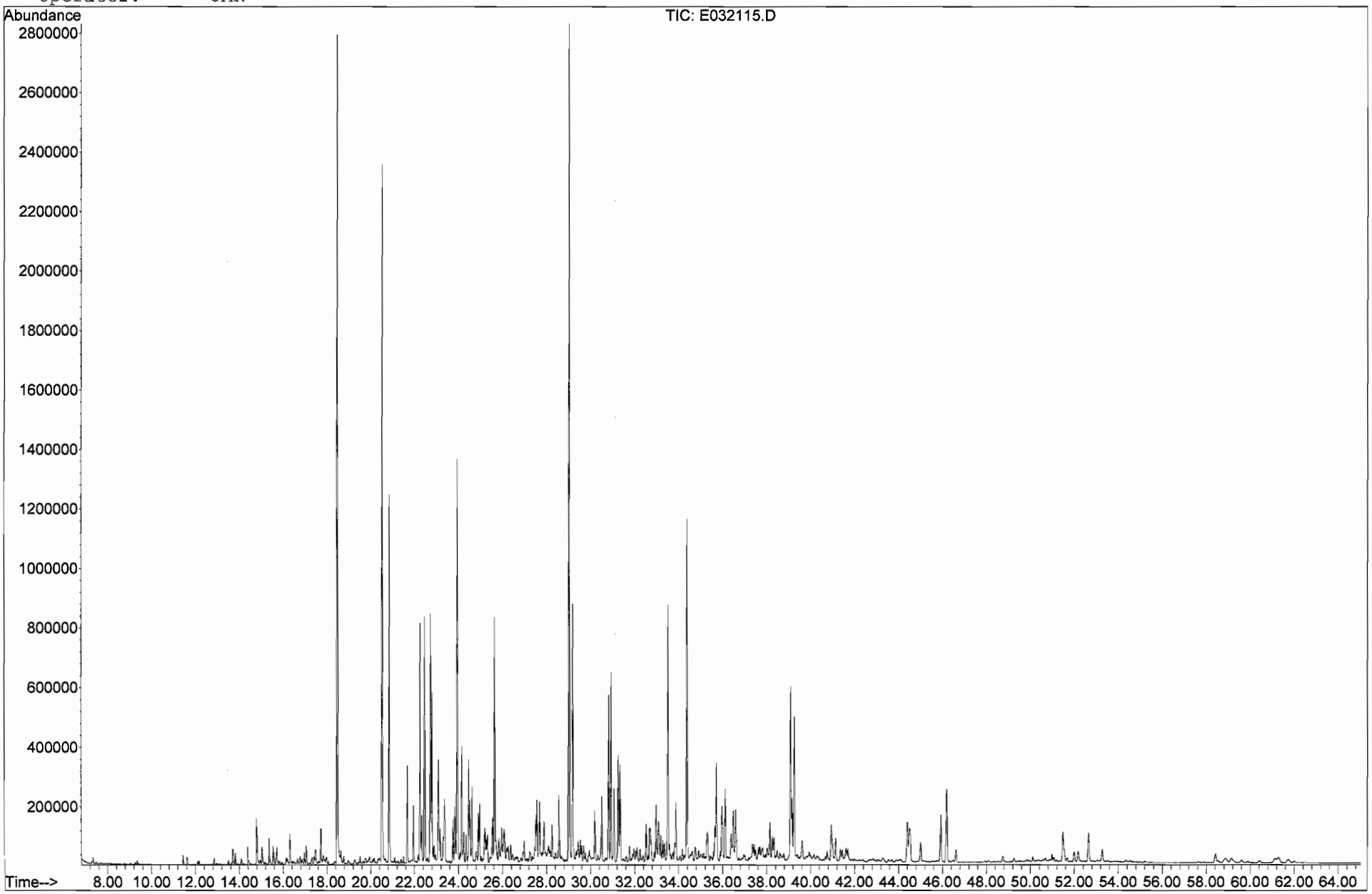
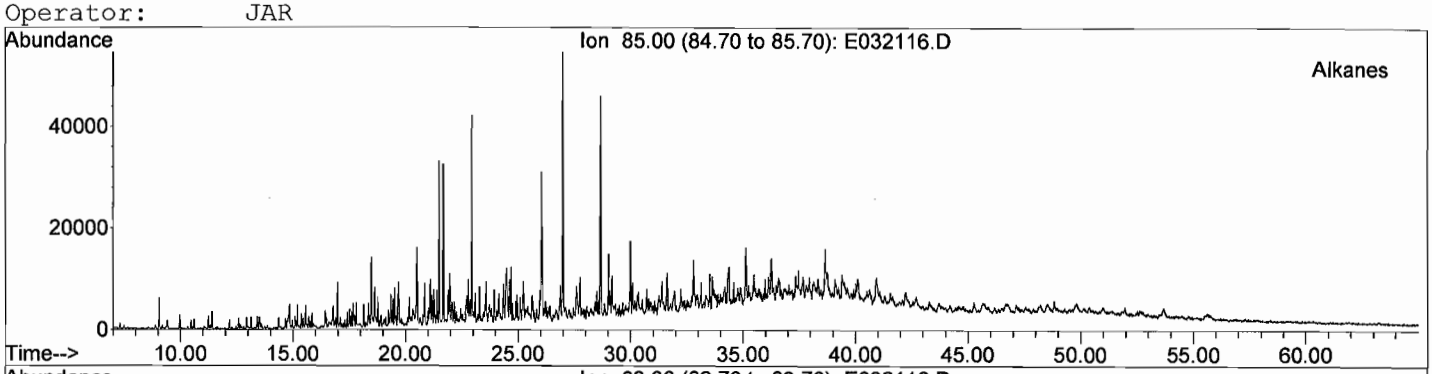
Sample Name: BR070313-10-D
Misc Info: CRAW-CSB044-001 (2.5'-3.0')
Operator: JAR

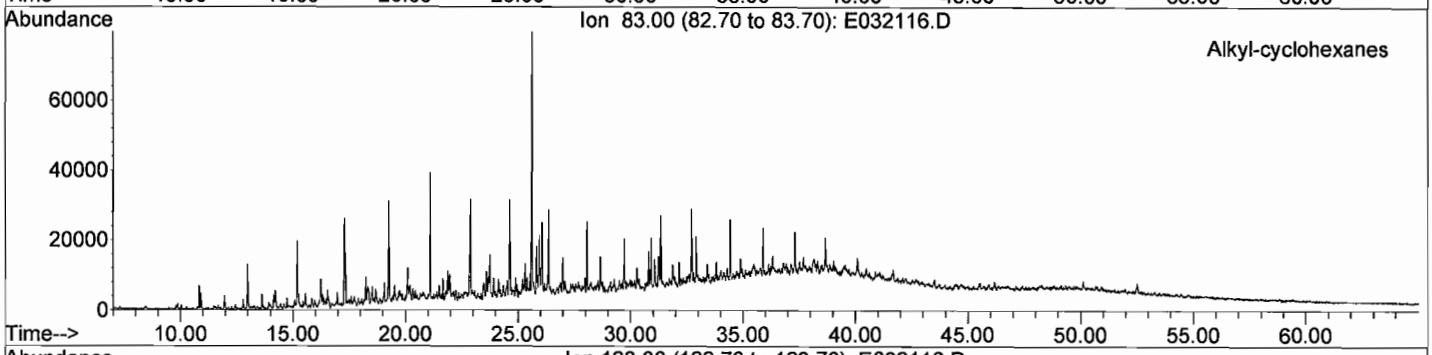


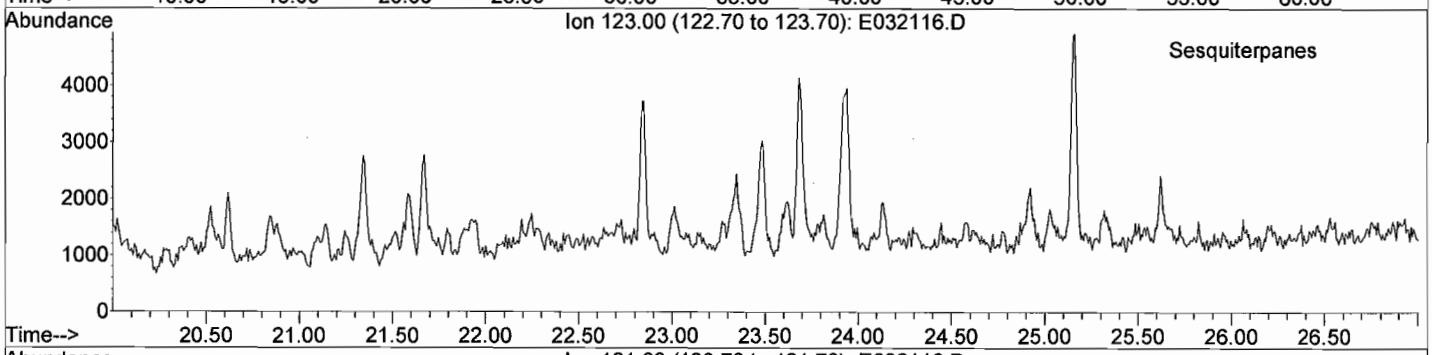
META Environmental, Inc.

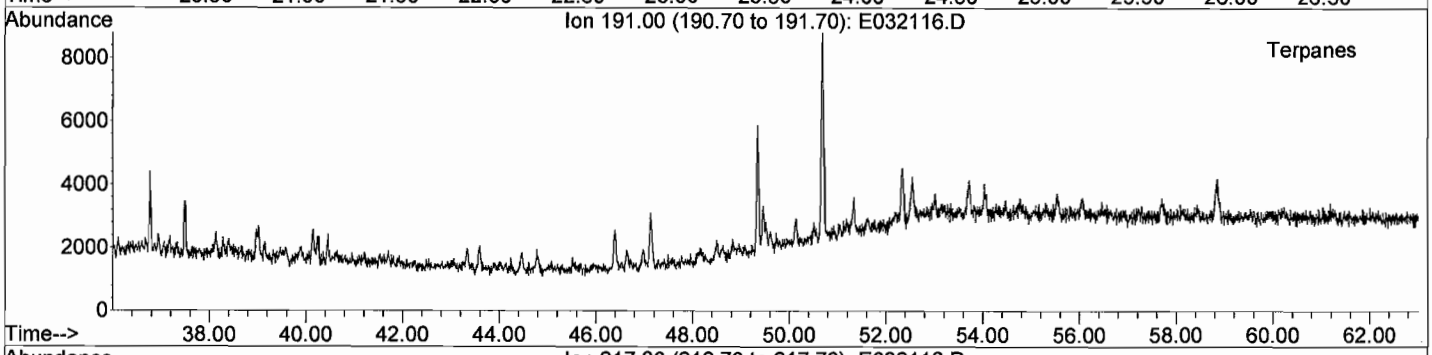
GC/MS EXTRACTED ION CHROMATOGRAM

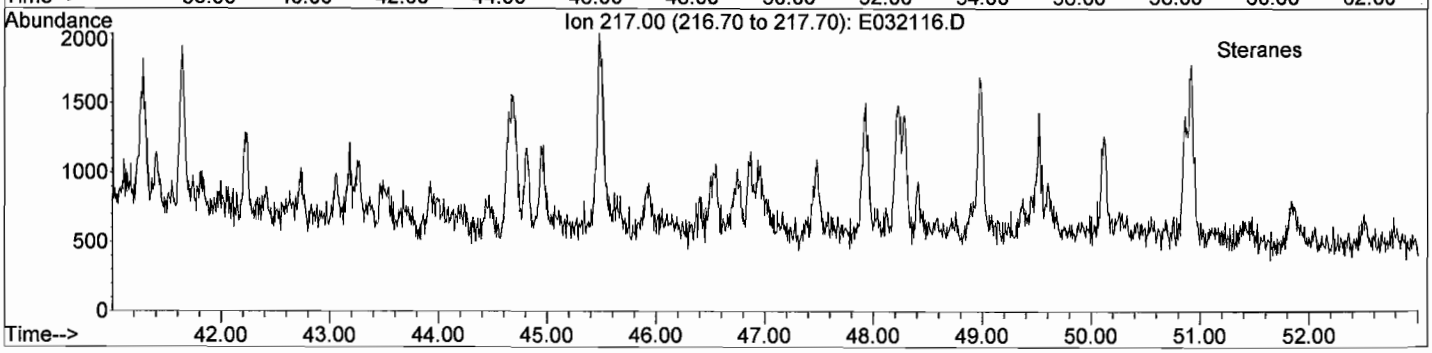
File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
Method File: 4008SIM2.M
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR







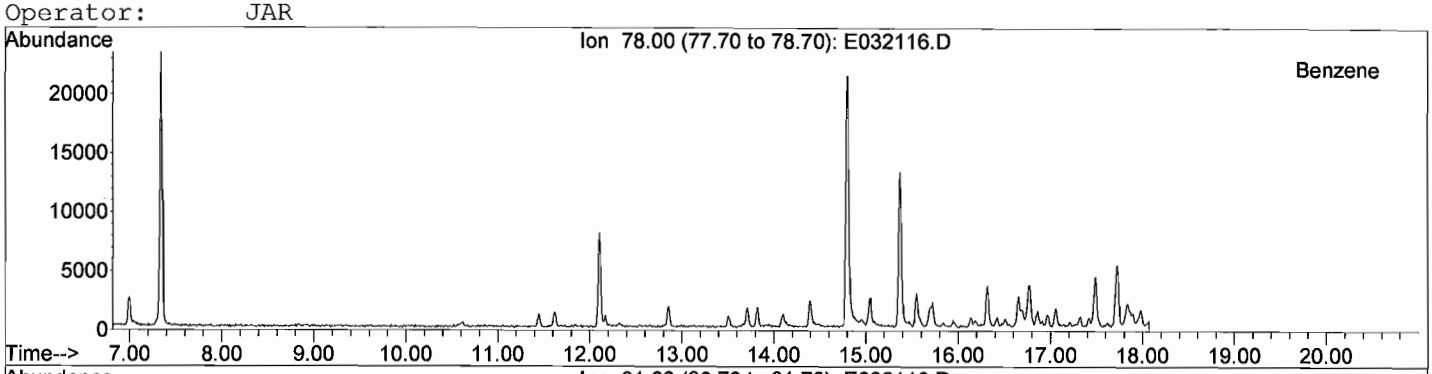


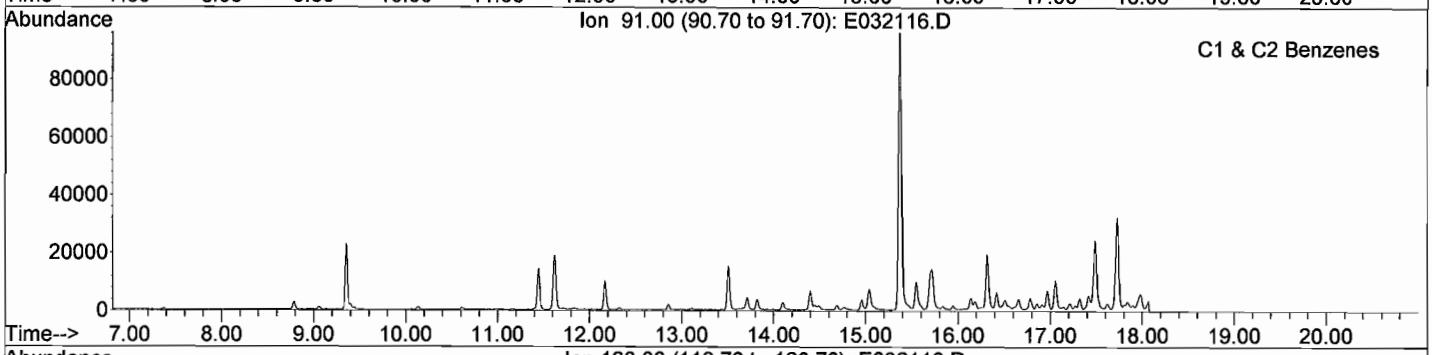


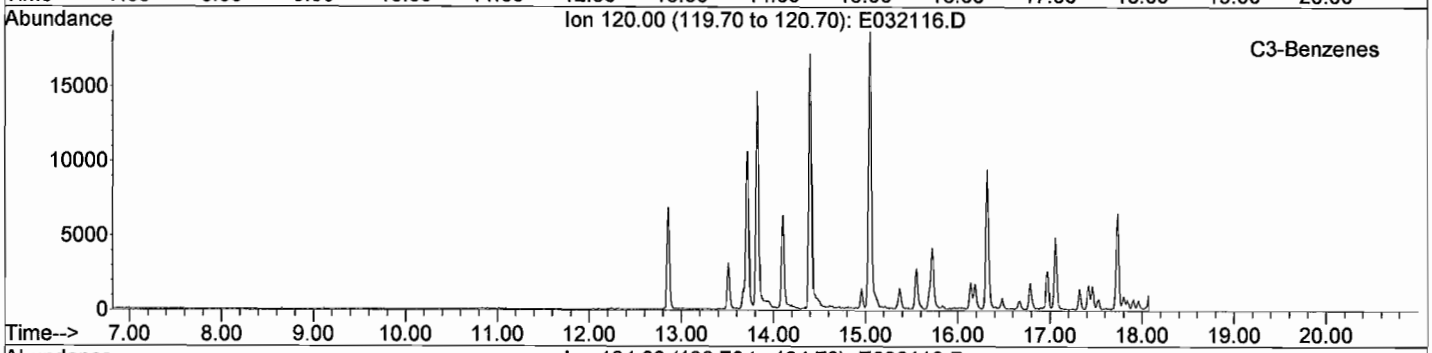
META Environmental, Inc.

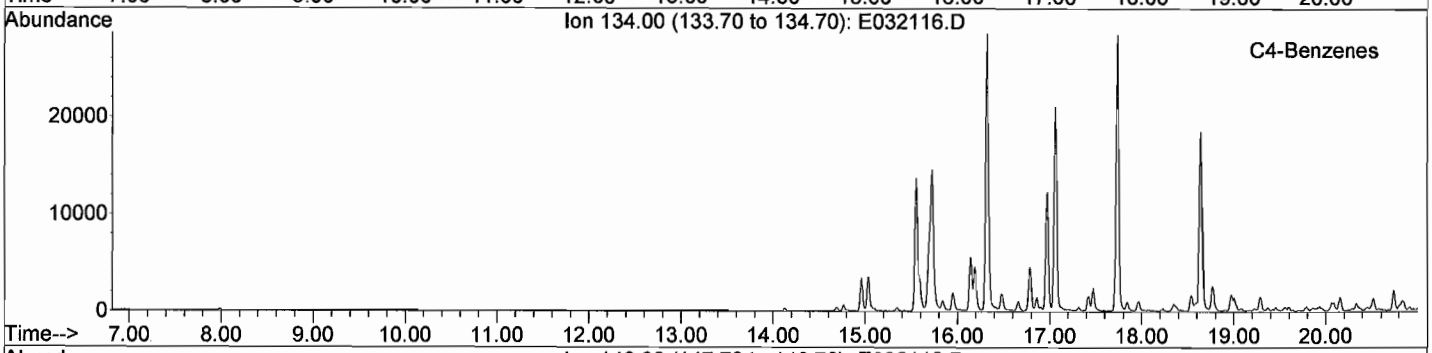
GC/MS EXTRACTED ION CHROMATOGRAM

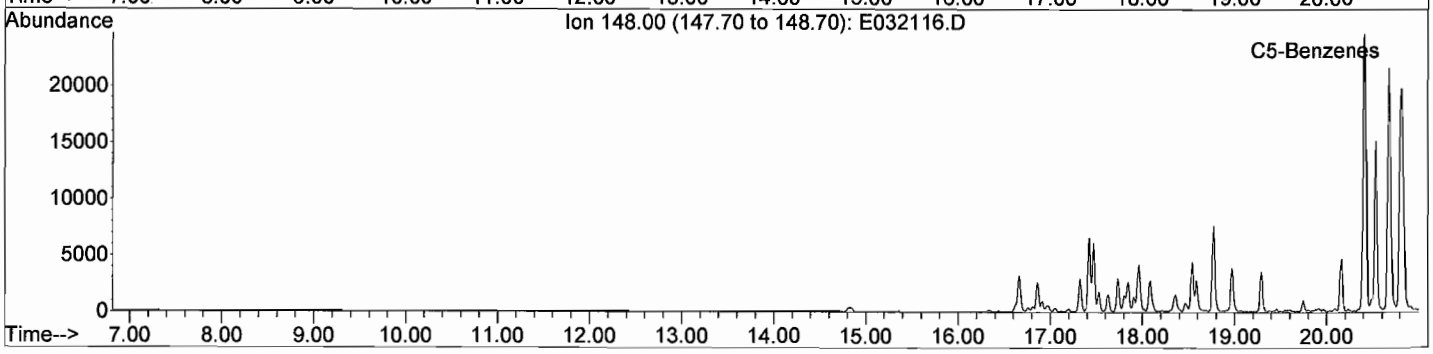
File: J:\l\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
Method File: 4008SIM2.M
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR







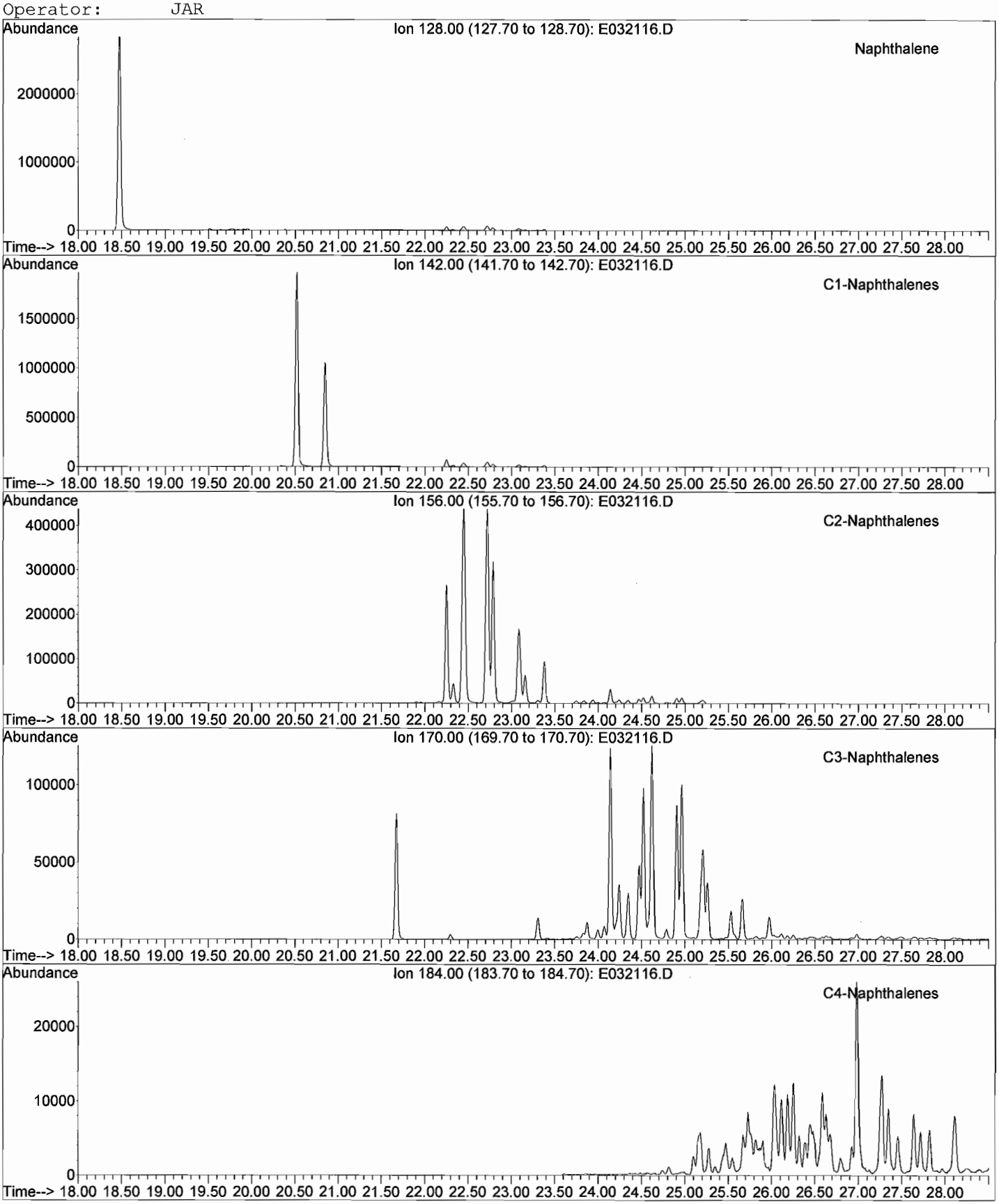




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
Method File: 4008SIM2.M
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
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Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
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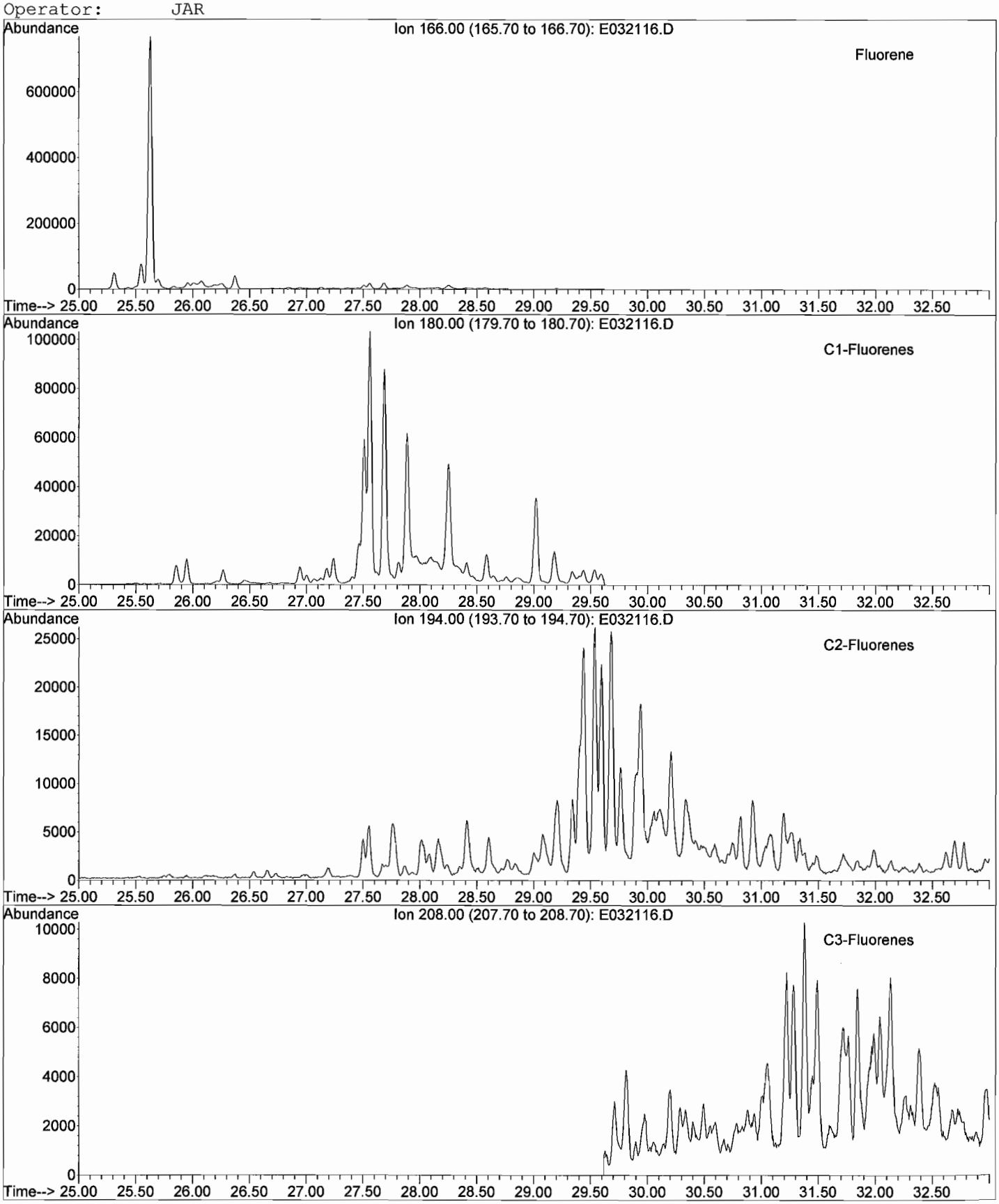

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
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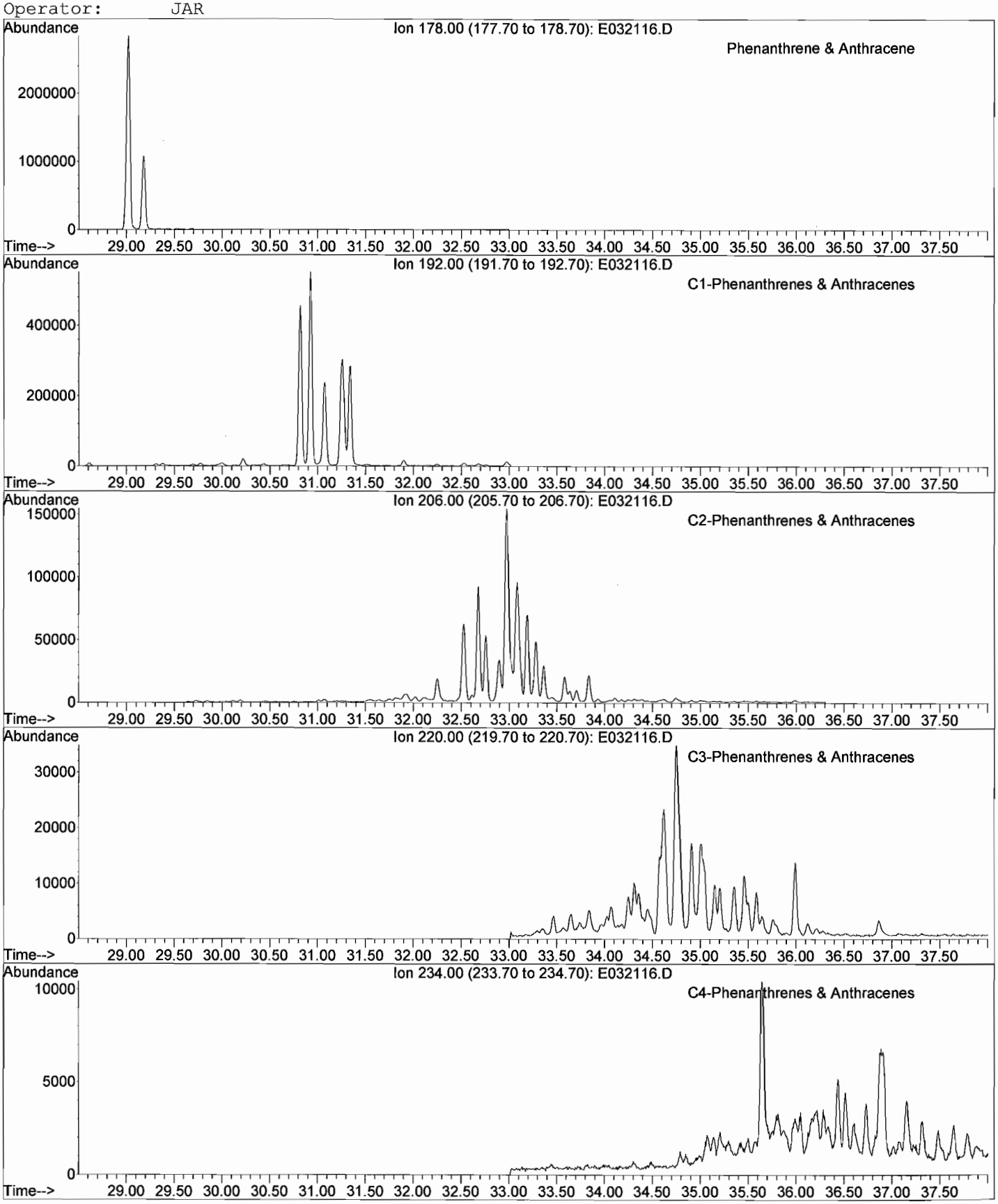
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
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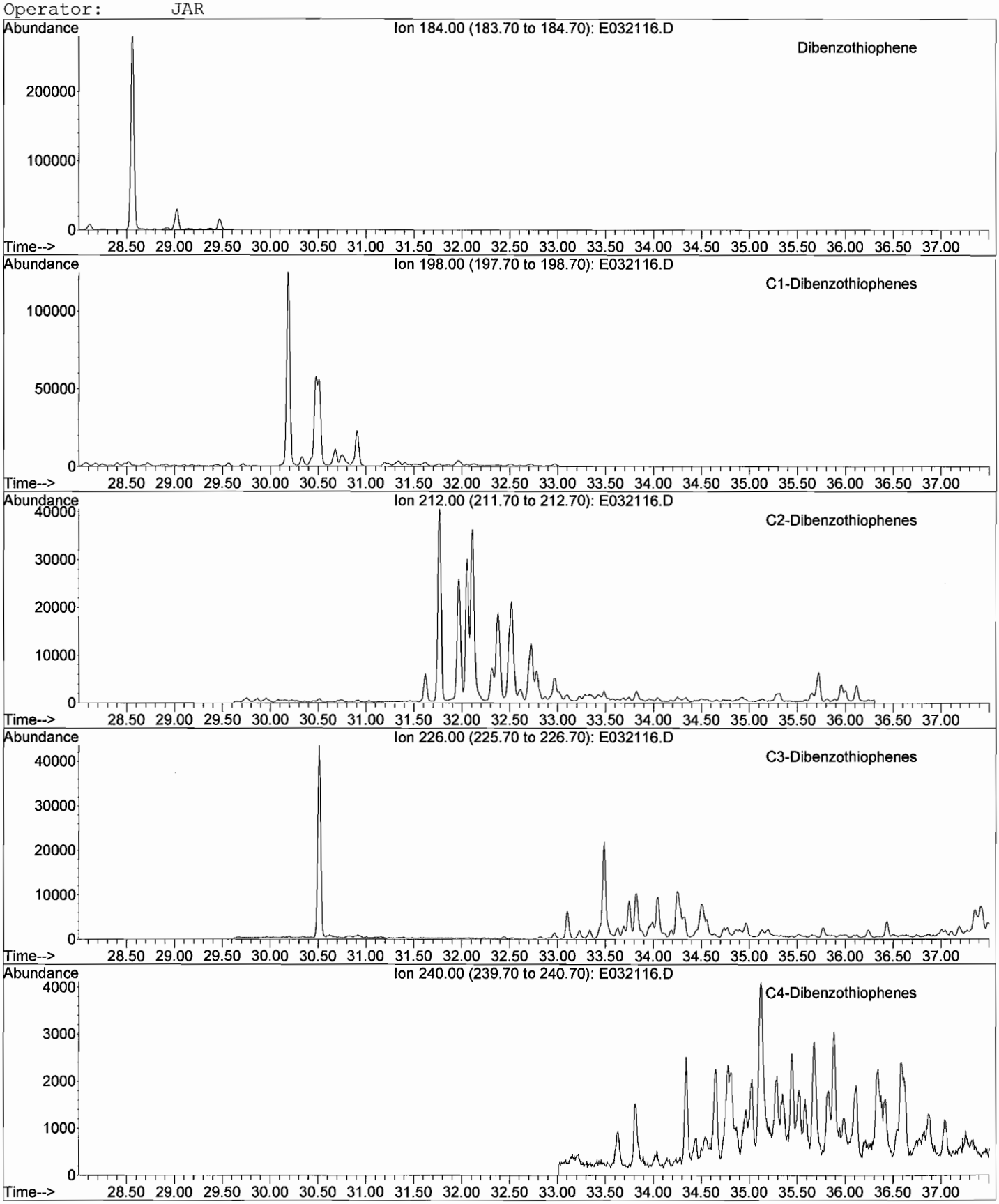
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
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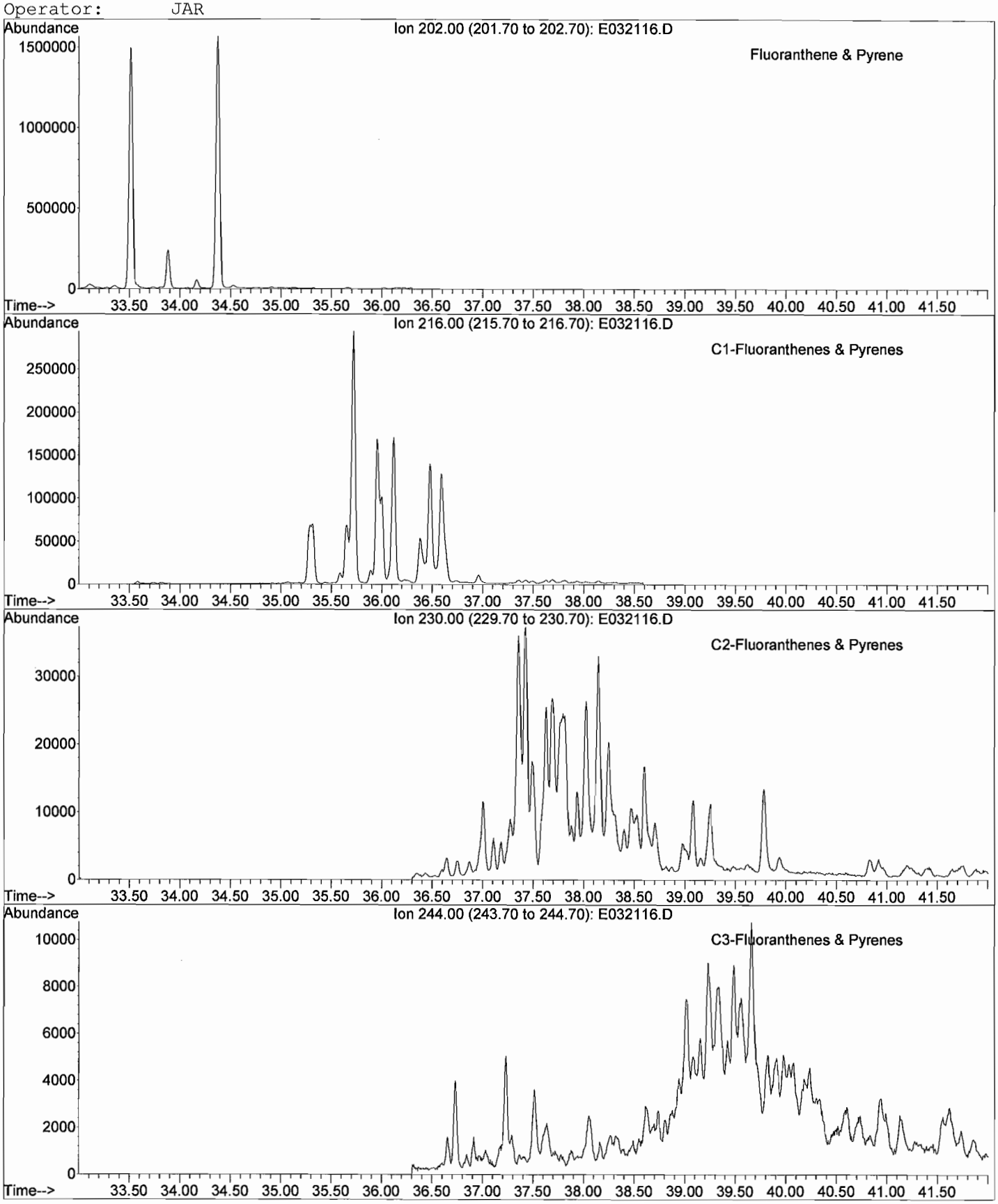
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR



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GC/MS EXTRACTED ION CHROMATOGRAM

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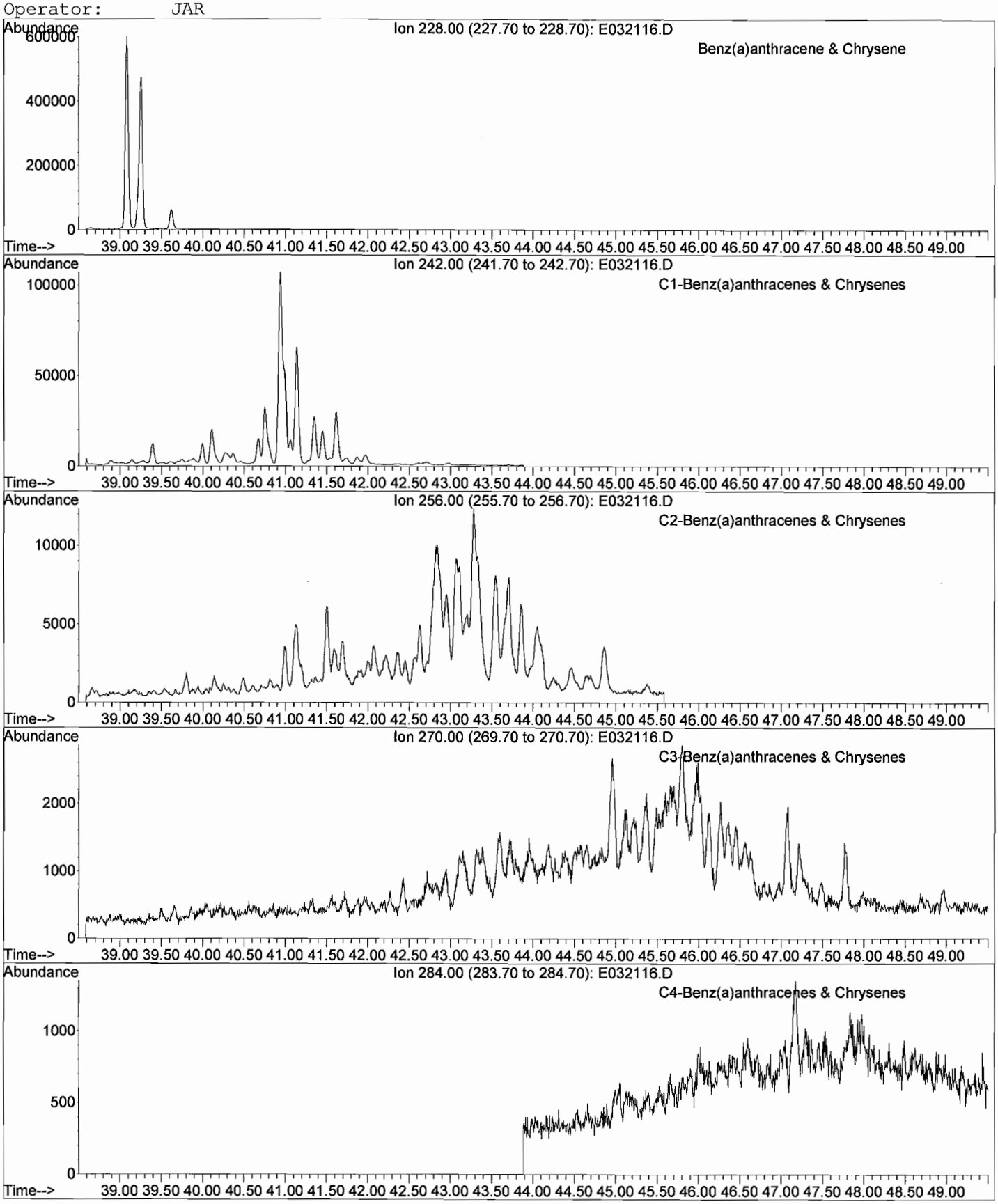
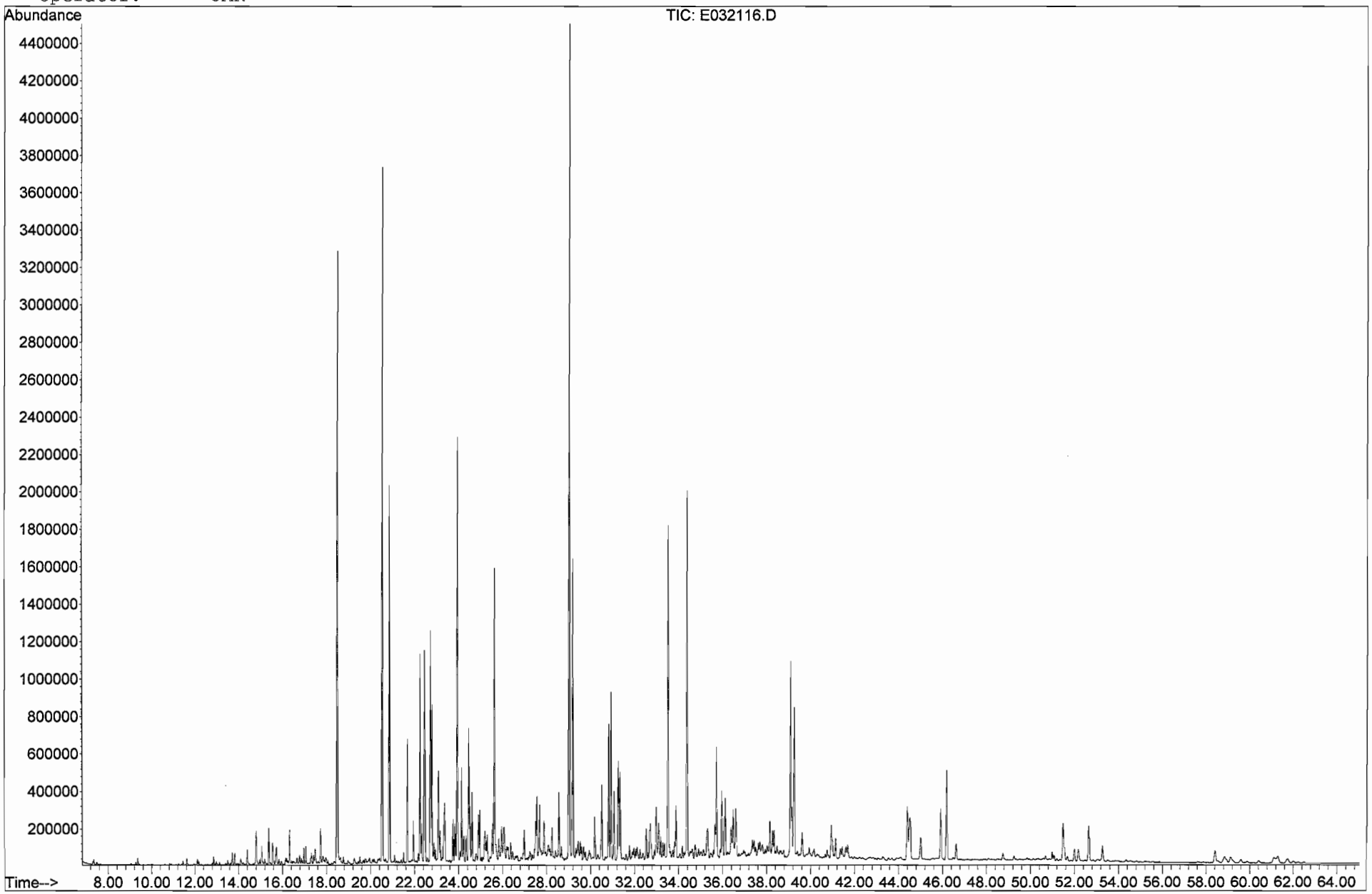
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

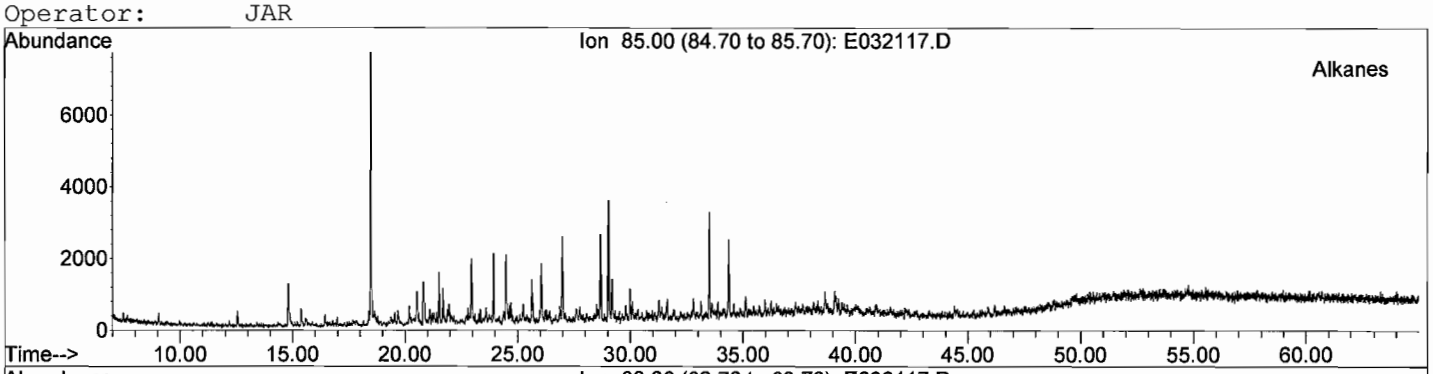
File: J:\1\DATA\E070321\E032116.D
Date Acquired: 22 Mar 2007 8:56 am
Method File: 4008SIM2.M
Sample Name: BR070313-11-D
Misc Info: CRAW-CSB044-002 (4.3'-4.8')
Operator: JAR

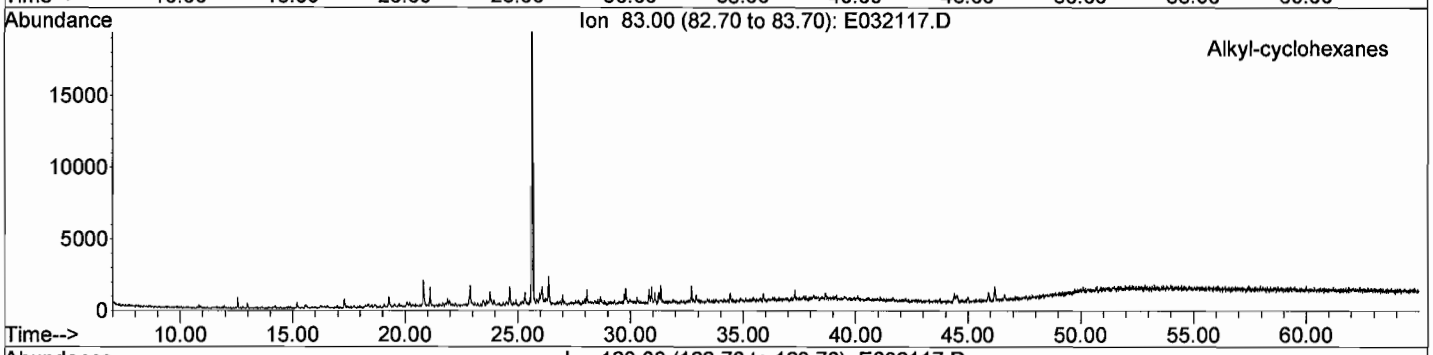


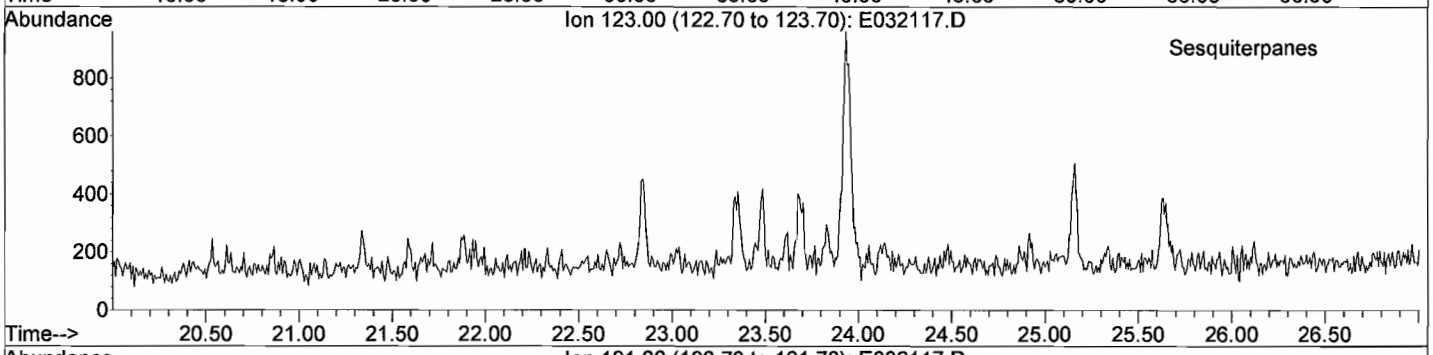
META Environmental, Inc.

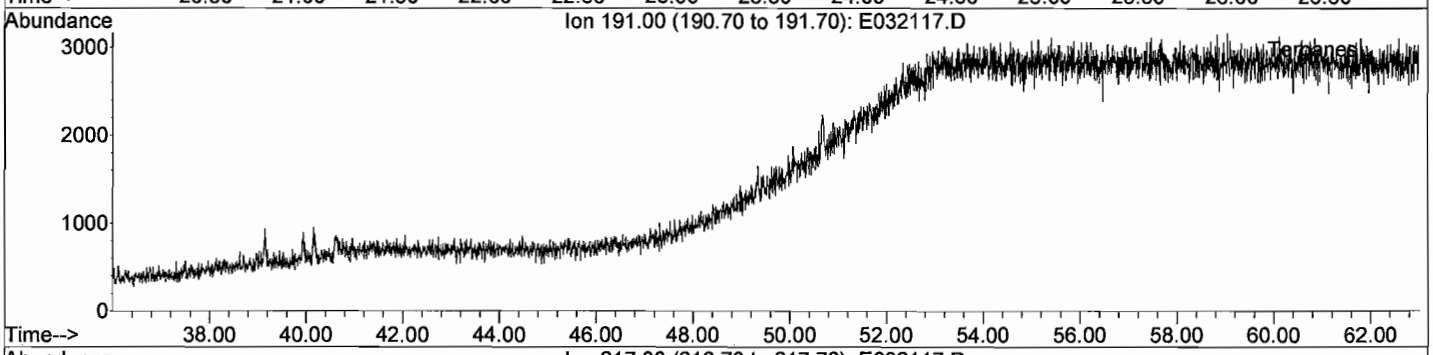
GC/MS EXTRACTED ION CHROMATOGRAM

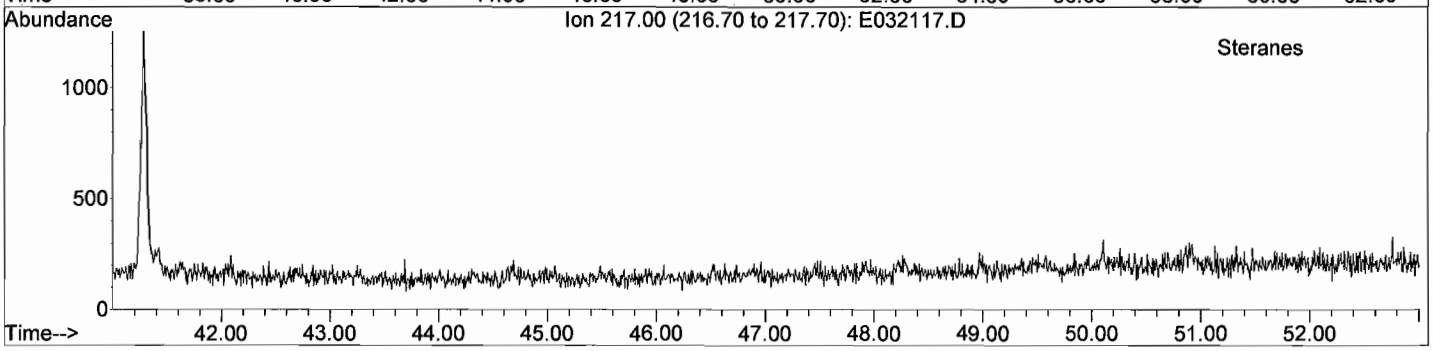
File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR







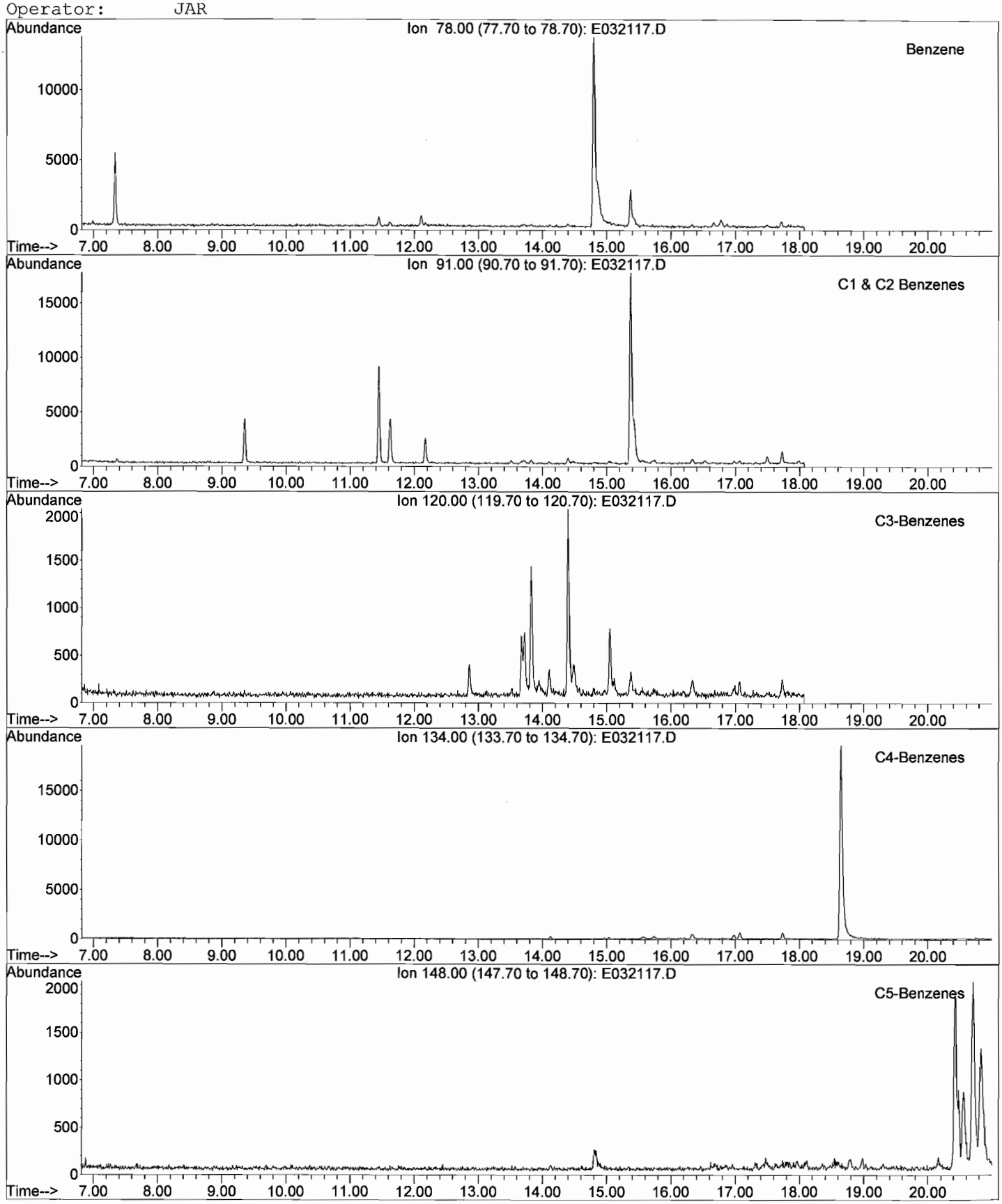




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

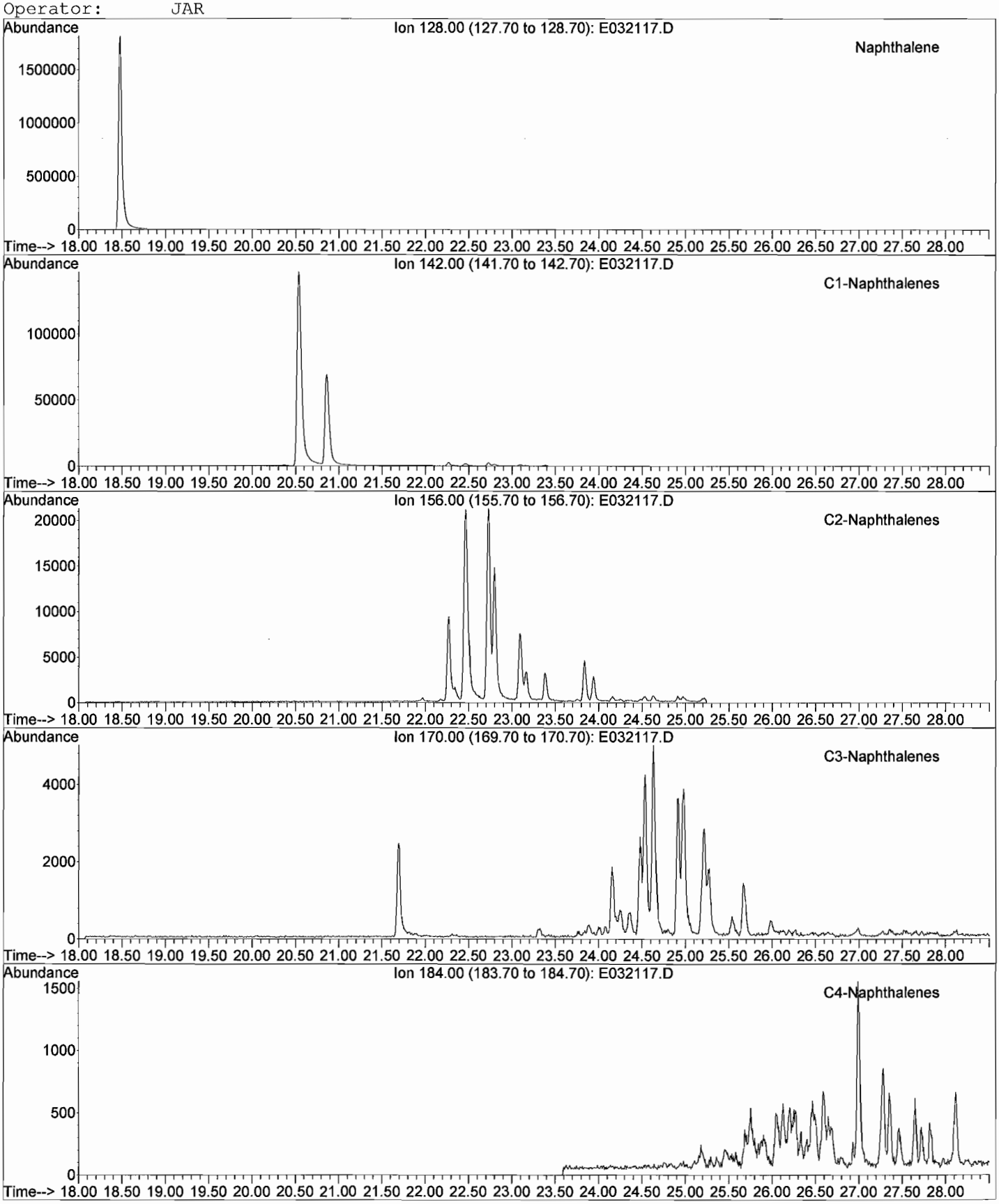
File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

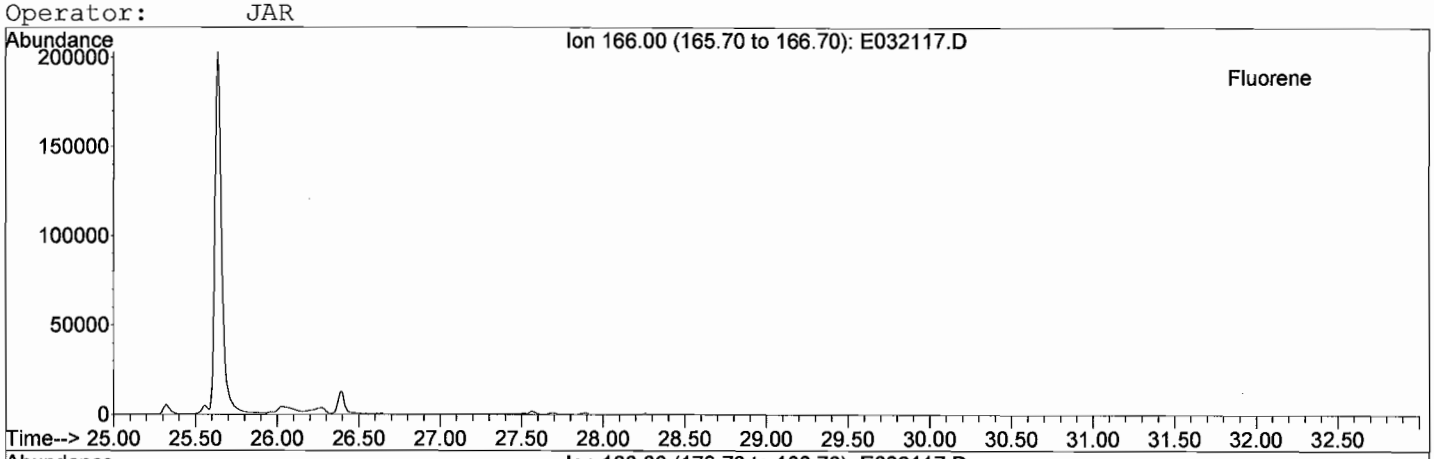
File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR

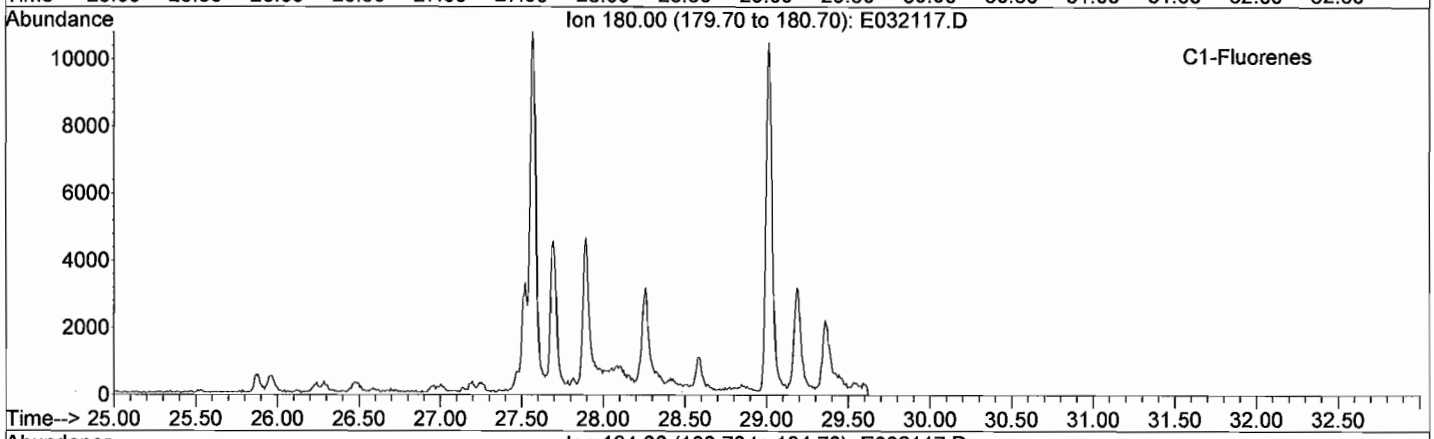


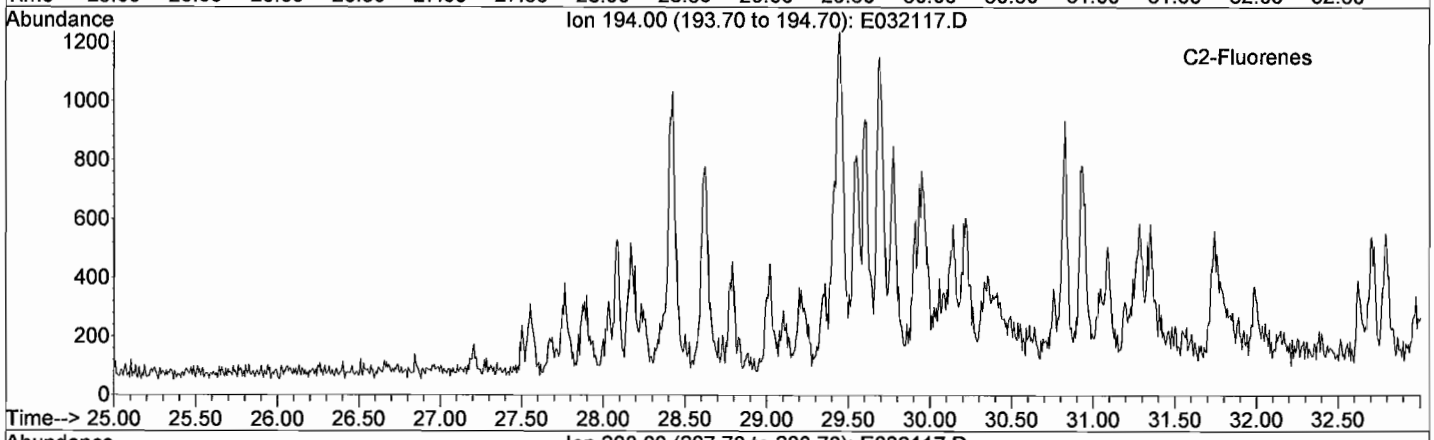
META Environmental, Inc.

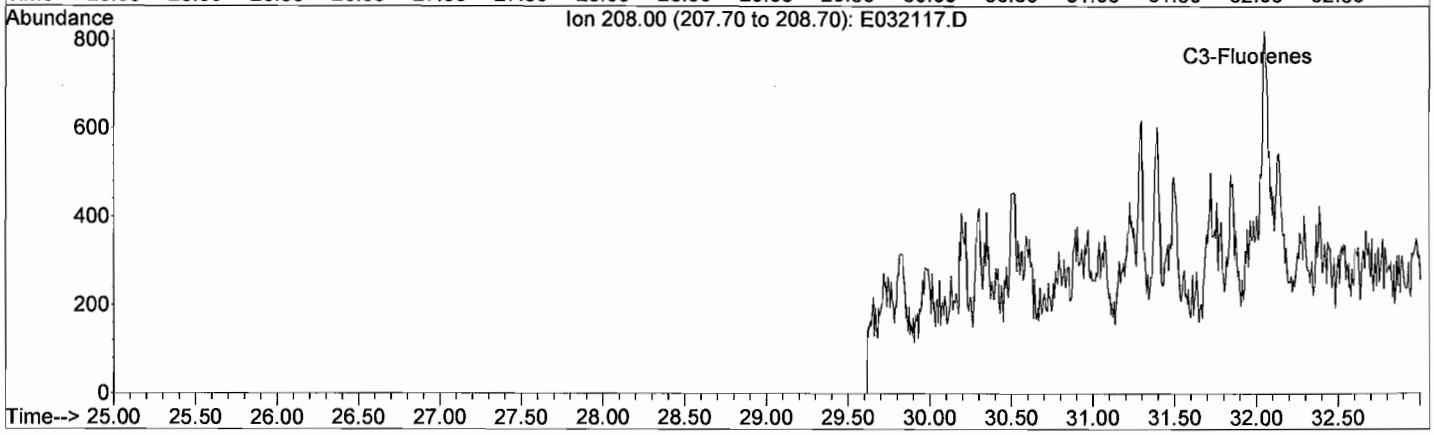
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR





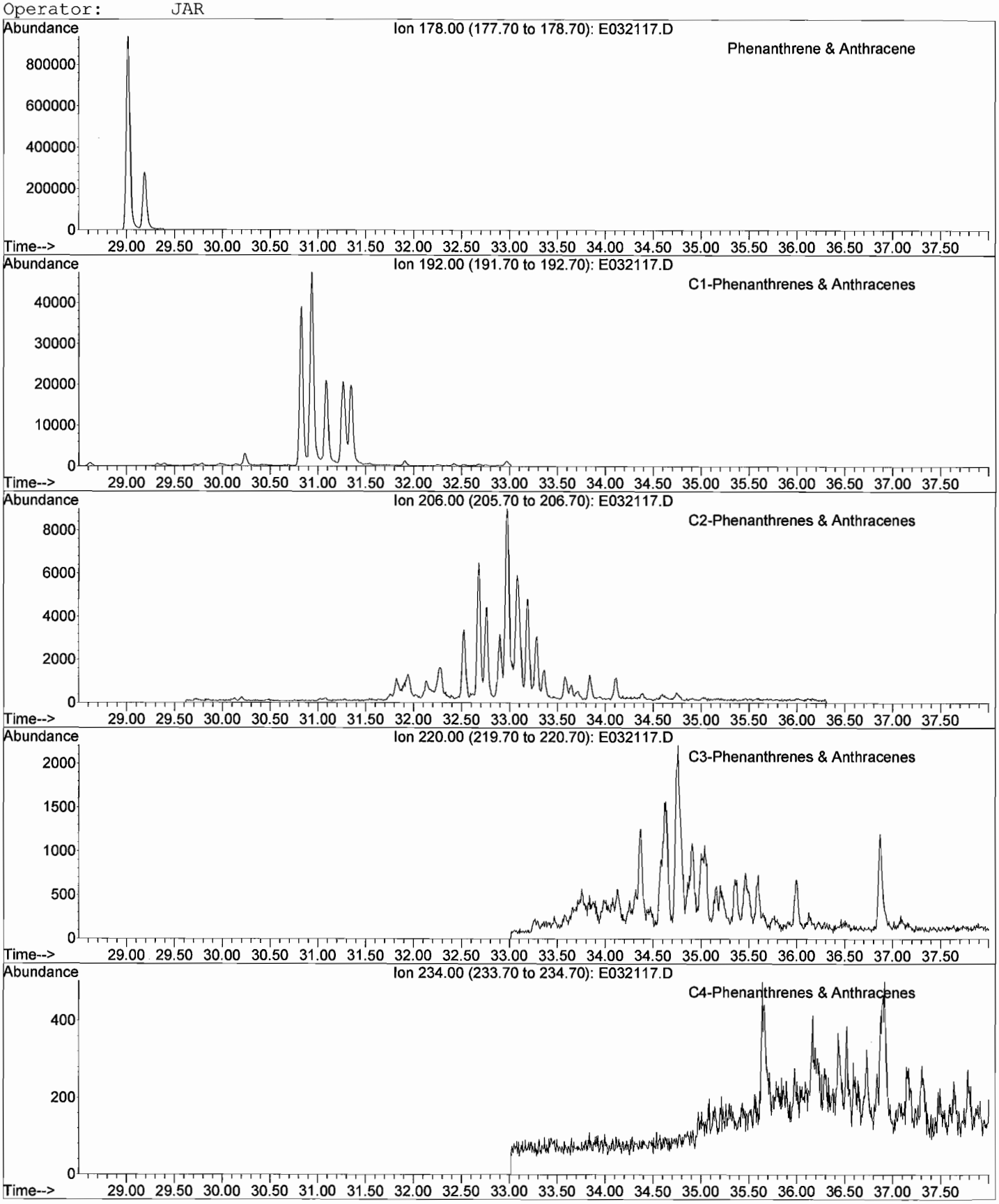




META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

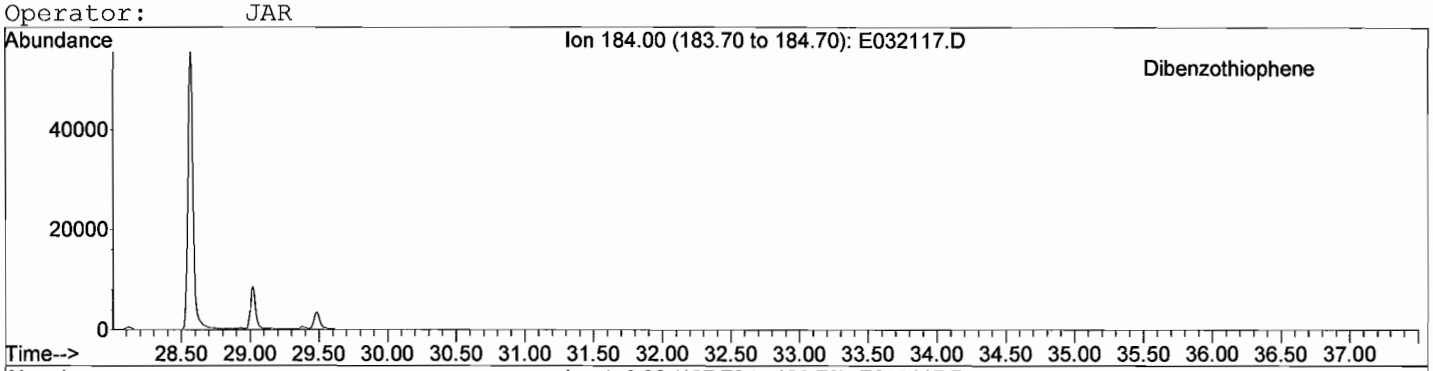
File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR

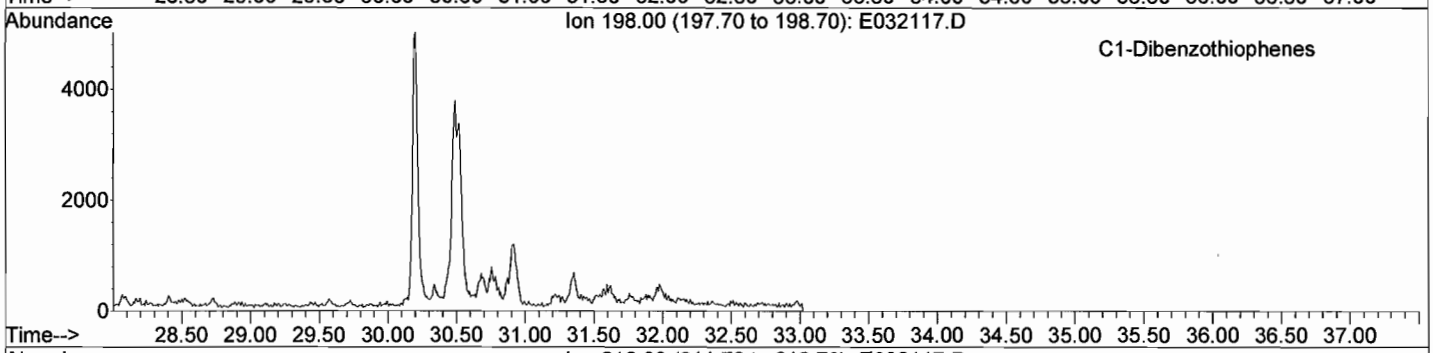


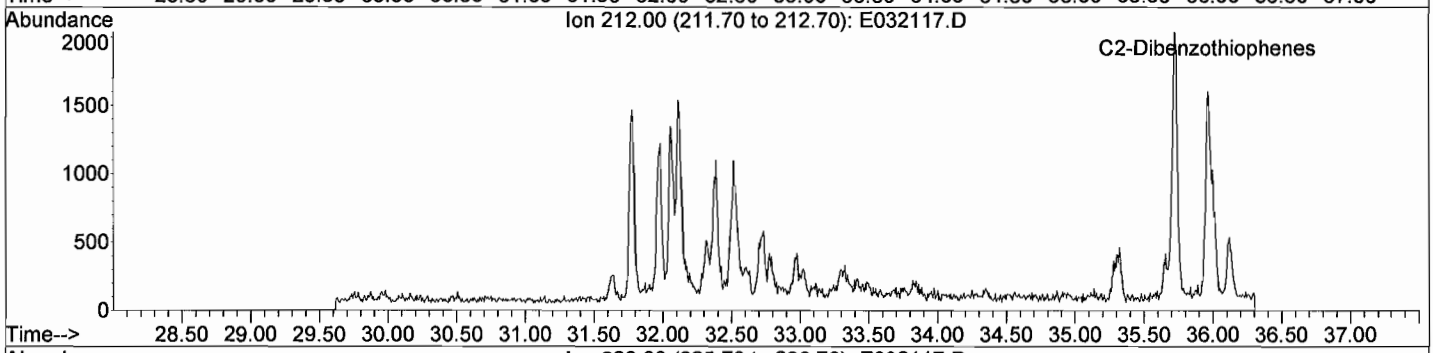
META Environmental, Inc.

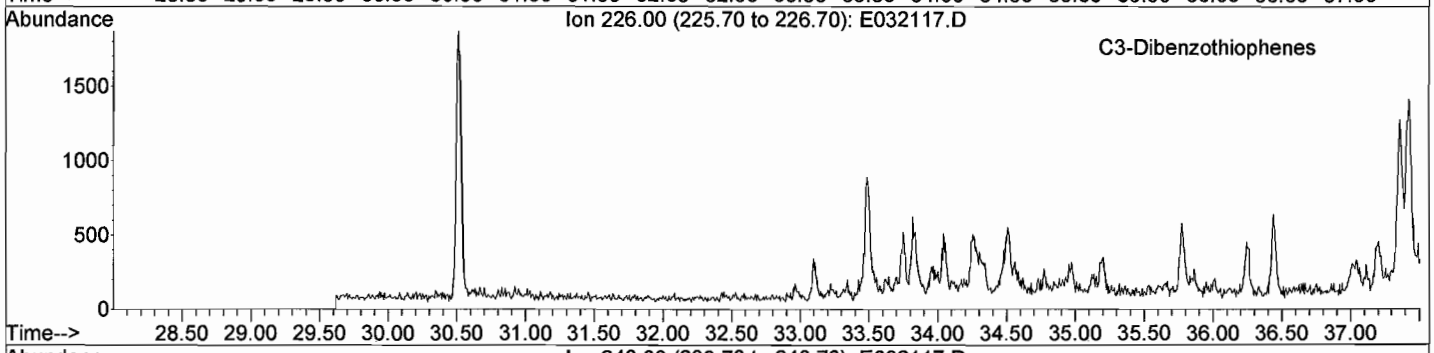
GC/MS EXTRACTED ION CHROMATOGRAM

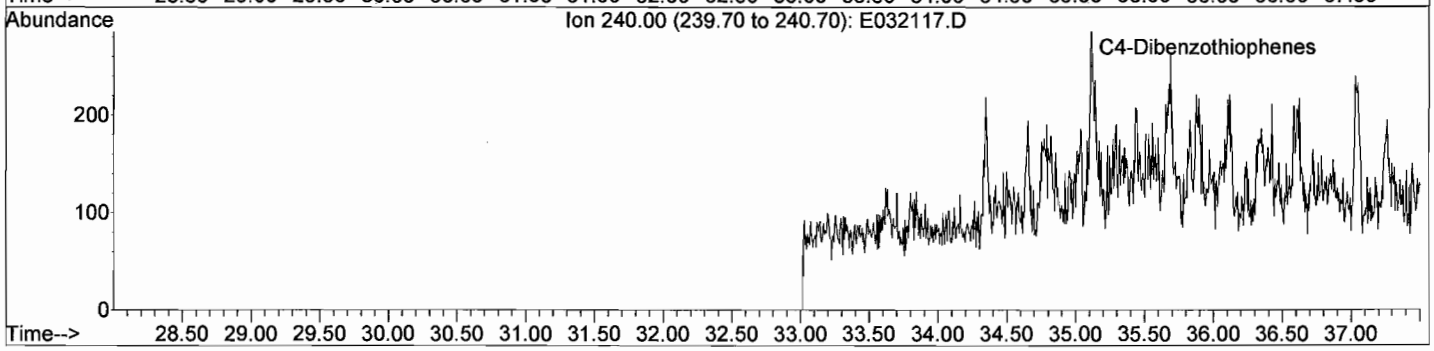
File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR







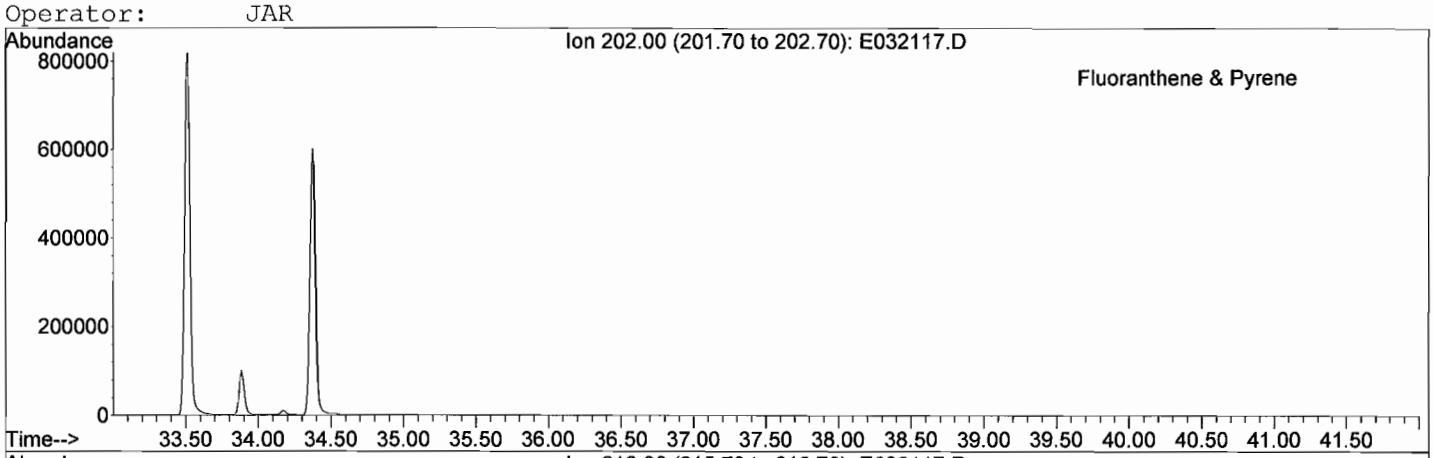


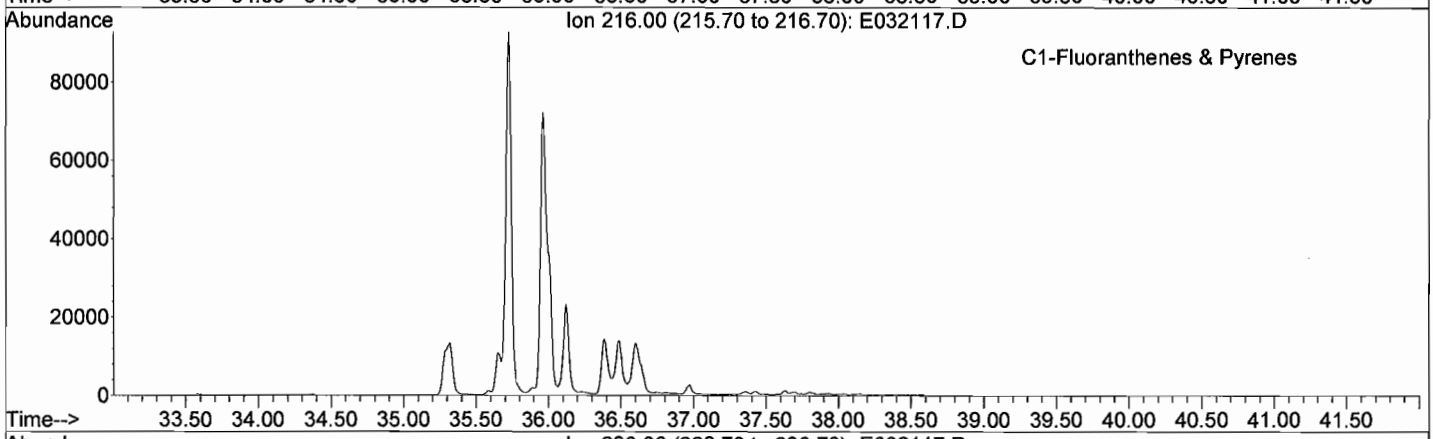


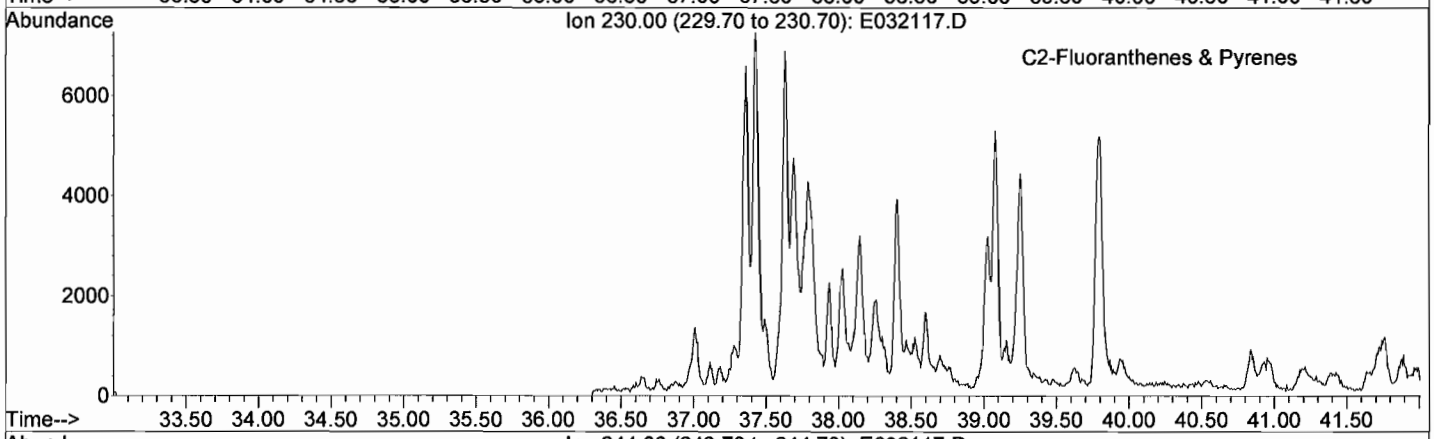
META Environmental, Inc.

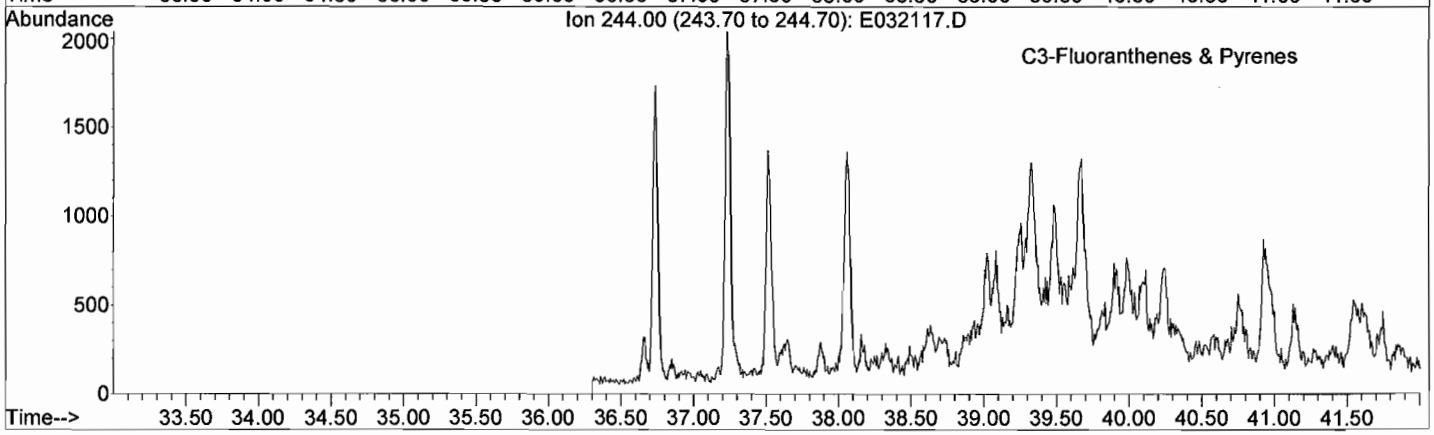
GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR





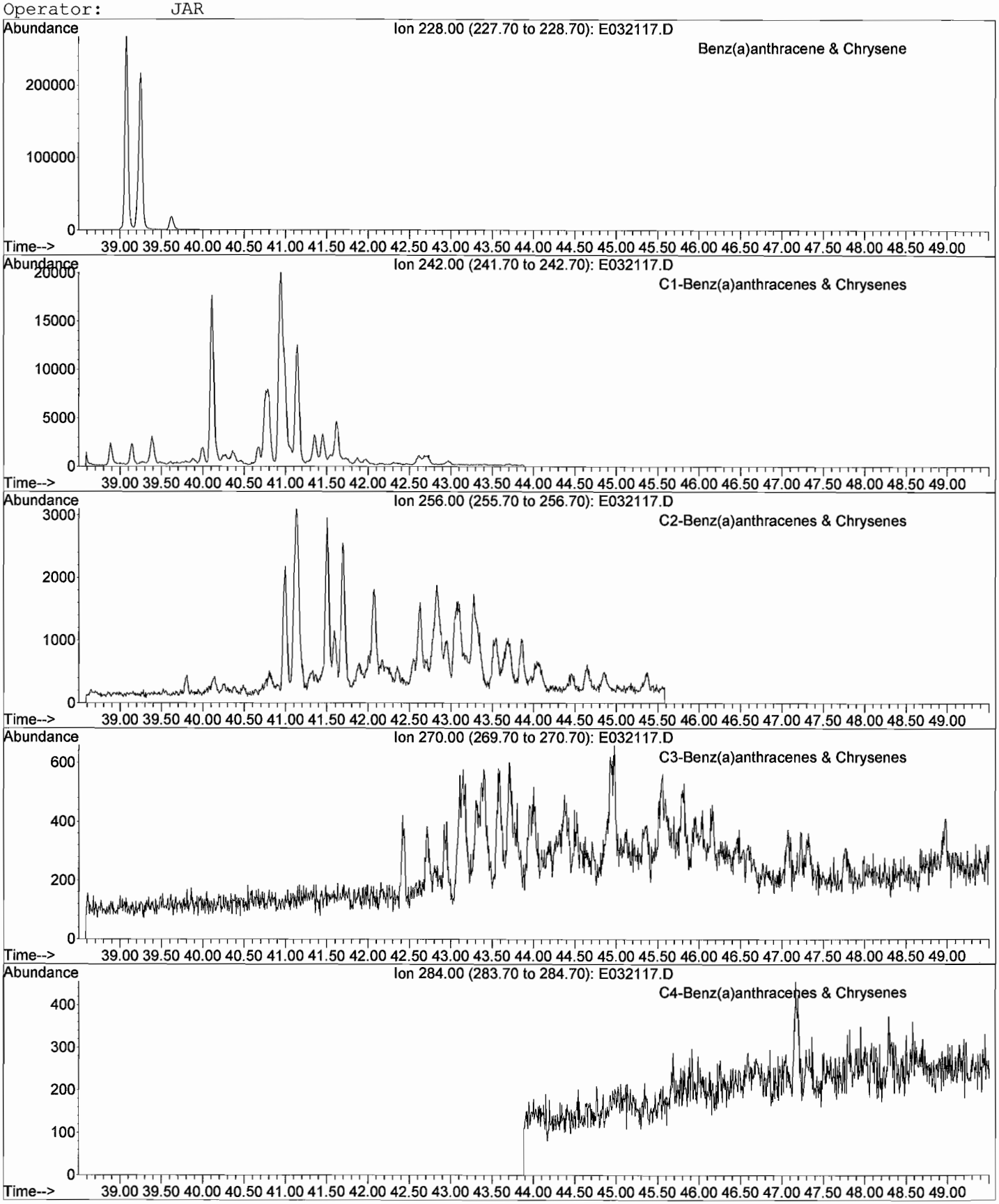




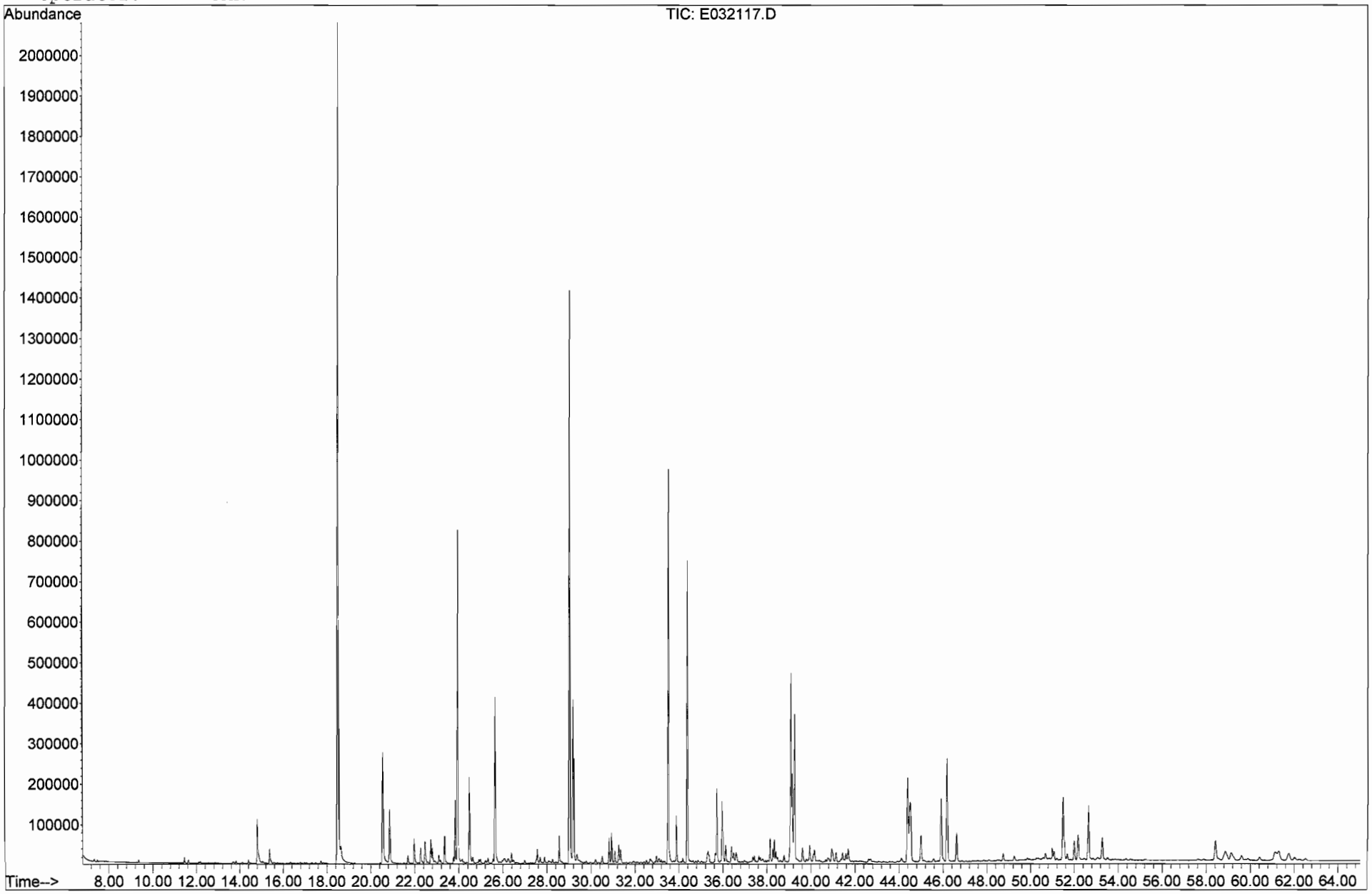
META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: J:\1\DATA\E070321\E032117.D
Date Acquired: 22 Mar 2007 10:15 am
Method File: 4008SIM2.M
Sample Name: BR070313-12-D2
Misc Info: CRAW-CSB043-001 (0'-0.4')
Operator: JAR