

(LSC Reviewed)

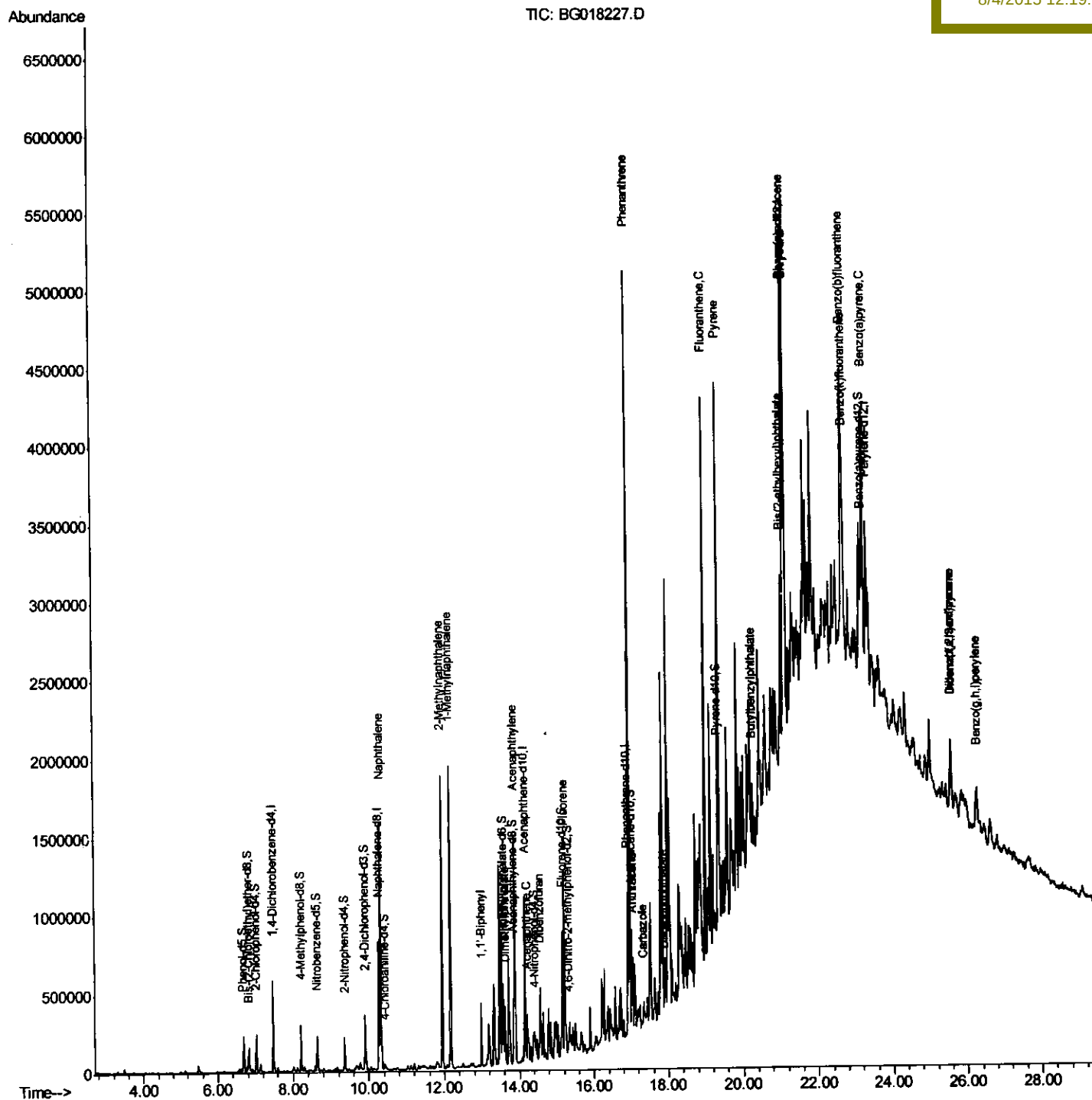
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
Data File : BG018227.D
Acq On : 2 Aug 2015 15:50
Operator : TP
Sample : G3065-21RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
C02G6RE

Quant Time: Aug 03 09:32:41 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 03 05:58:42 2015
Response via : Initial Calibration

Manual Integrations APPROVED

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Quantitation Report (Qedit)

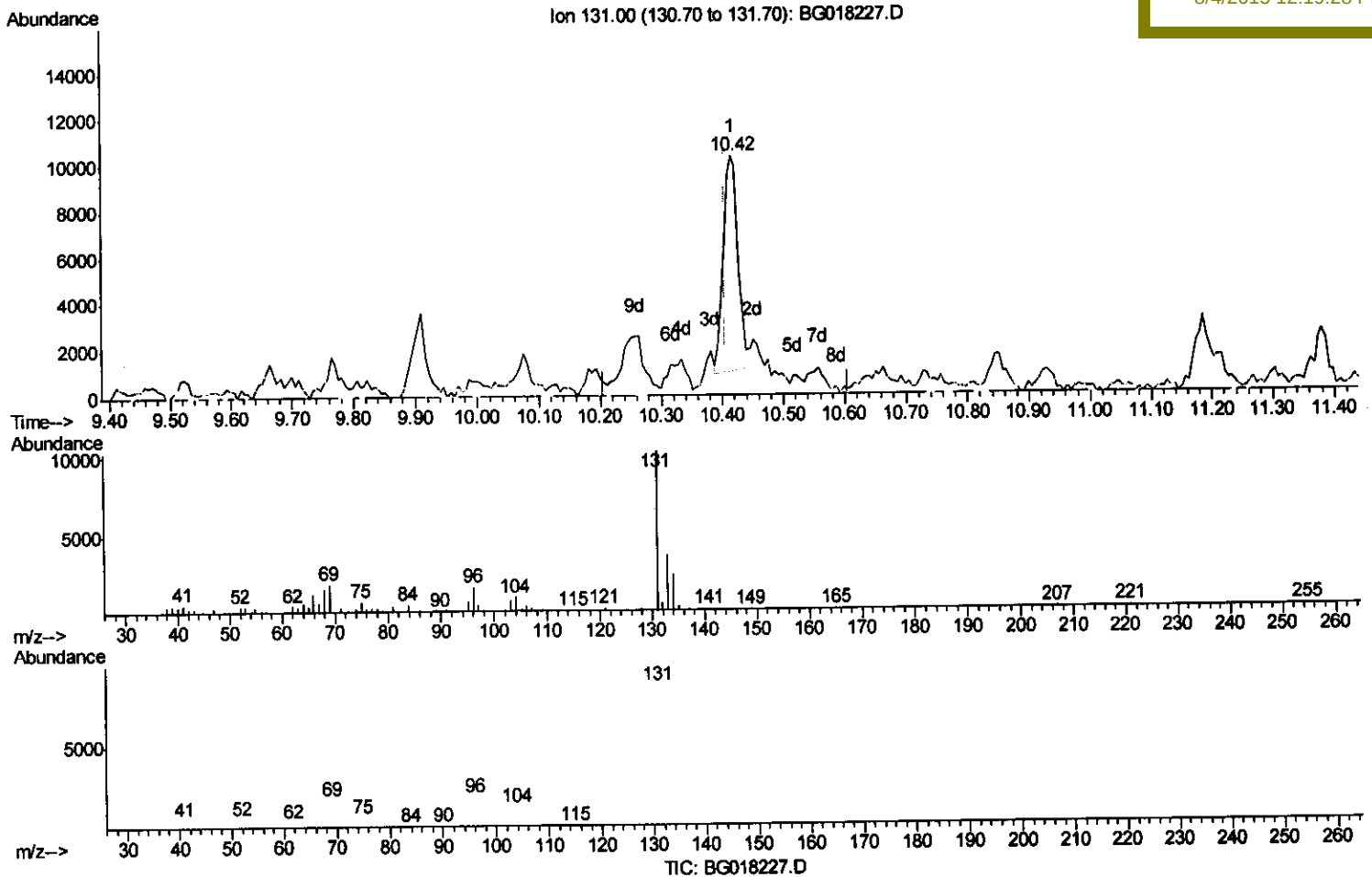
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
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Instrument :
 BNA_G
 ClientSampleId :
 C02G6RE

Quant Time: Aug 03 06:01:54 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
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Manual Integrations
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(29) 4-Chloroaniline-d4 (S)

10.416min (+0.010) 1.18ng/ul

response 15479

Ion	Exp%	Act%
131.00	100	100
133.00	31.20	36.17
69.00	12.40	18.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

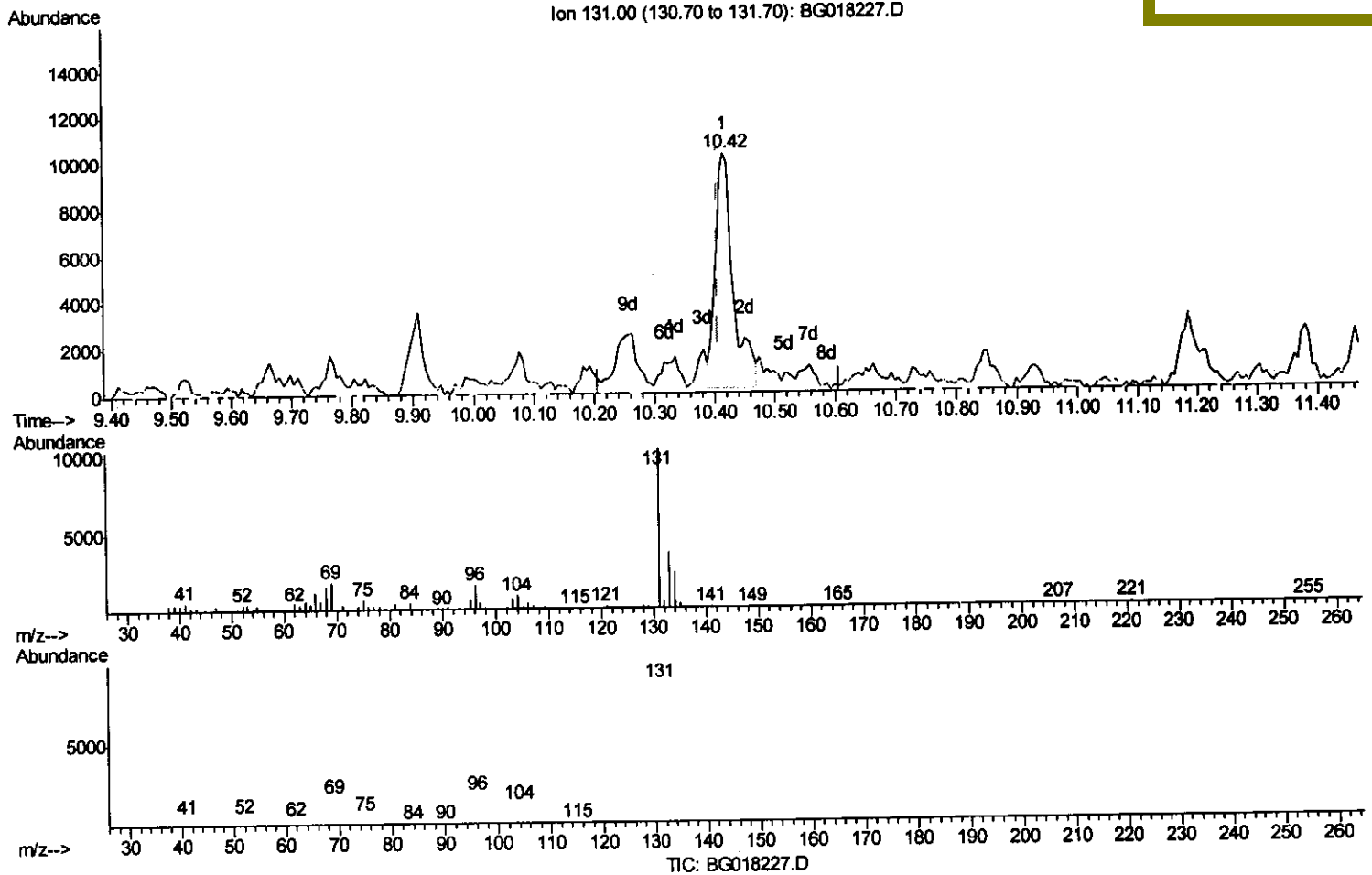
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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(29) 4-Chloroaniline-d4 (S)

10.416min (+0.010) 1.61ng/ul m

response 21087

Ion	Exp%	Act%
131.00	100	100
133.00	31.20	36.17
69.00	12.40	18.71#
0.00	0.00	0.00

> $\frac{0.11}{0.811115}$

Quantitation Report (Qedit)

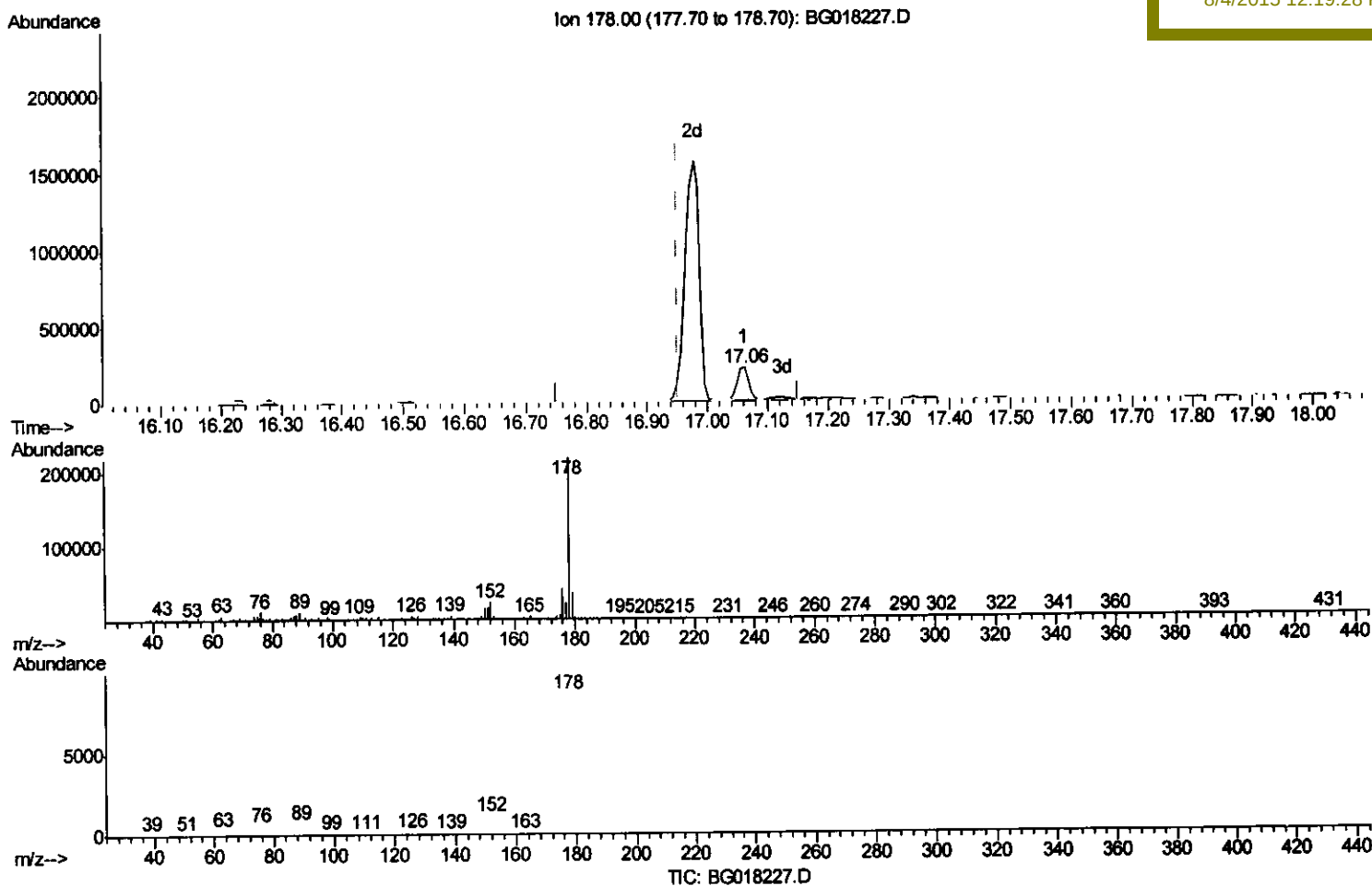
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(70) Phenanthrene

17.061min (+0.110) 10.27ng/ul

response 284677

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	16.22
176.00	20.00	19.47
0.00	0.00	0.00

Quantitation Report (Qedit)

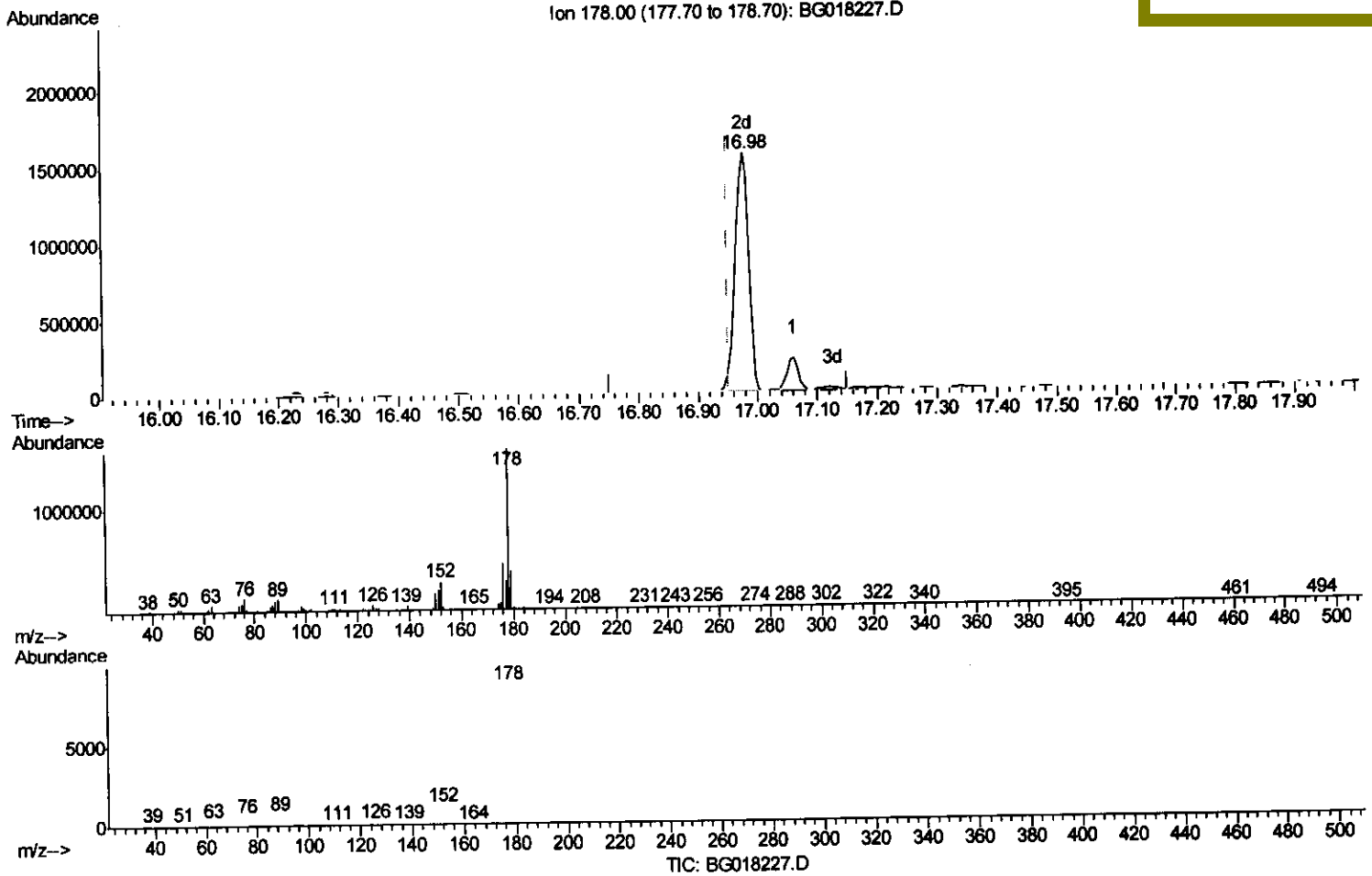
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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(70) Phenanthrene

16.979min (+0.028) 92.00ng/ul m

response 2550924

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	23.80#
176.00	20.00	28.72#
0.00	0.00	0.00

> $\frac{U.M}{08111115}$

Quantitation Report (Qedit)

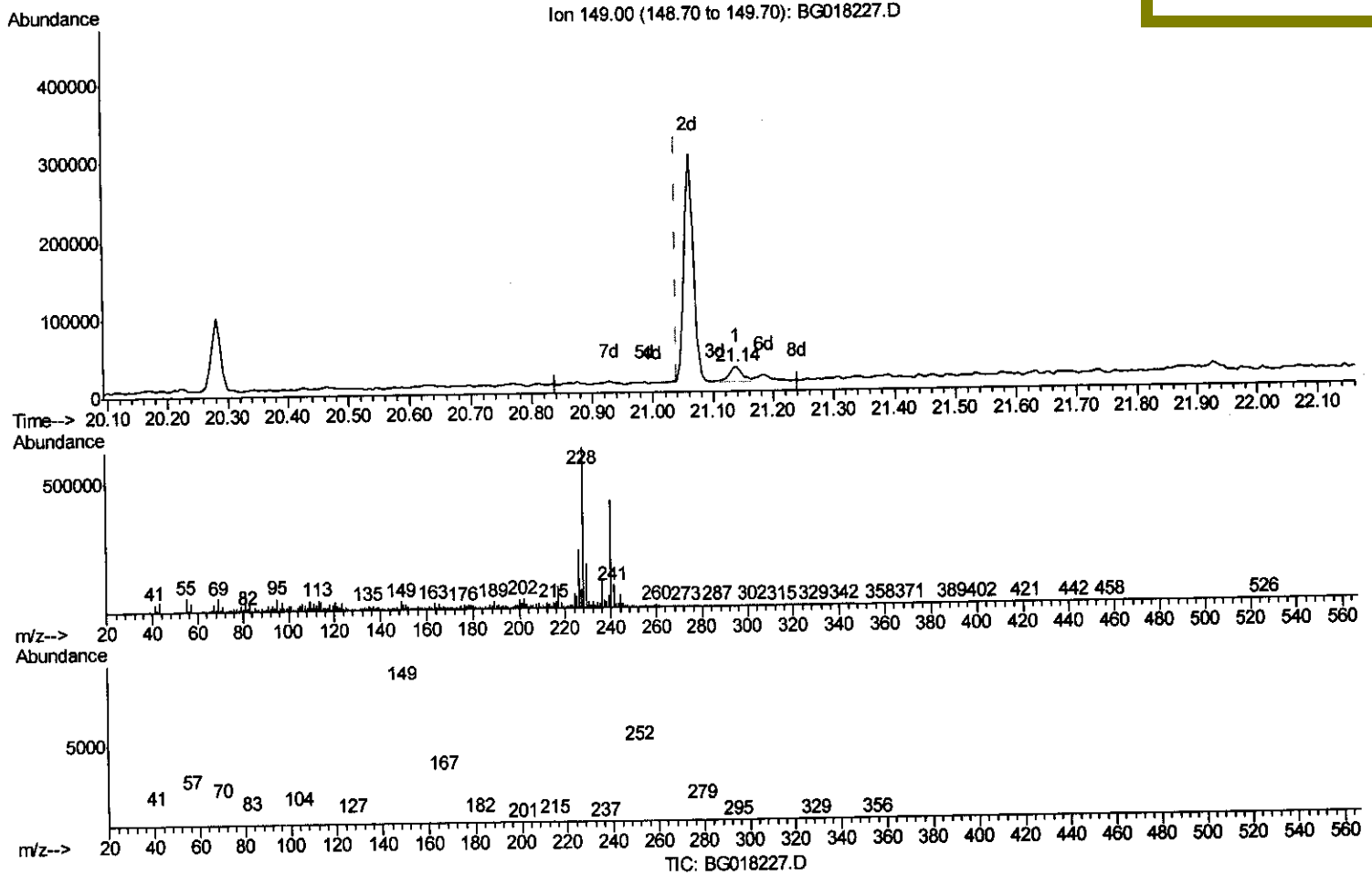
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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(84) Bis(2-ethylhexyl)phthalate

21.139min (+0.099) 1.23ng/ul

response 30661

Ion	Exp%	Act%
149.00	100	100
167.00	34.30	38.76
279.00	10.40	10.04
0.00	0.00	0.00

Quantitation Report (Qedit)

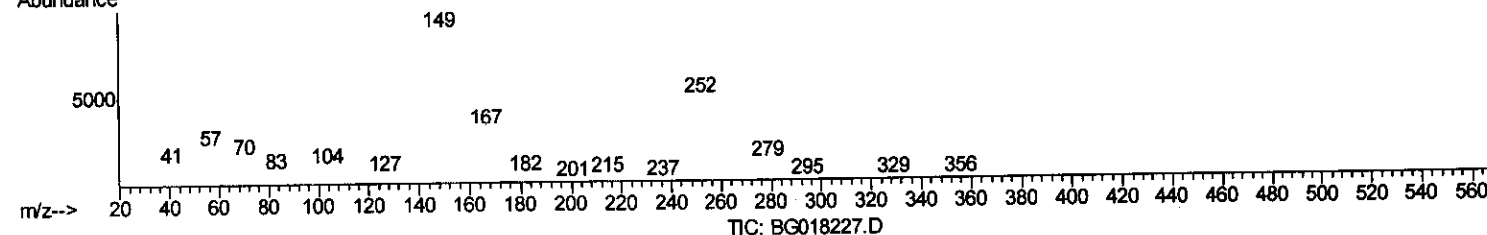
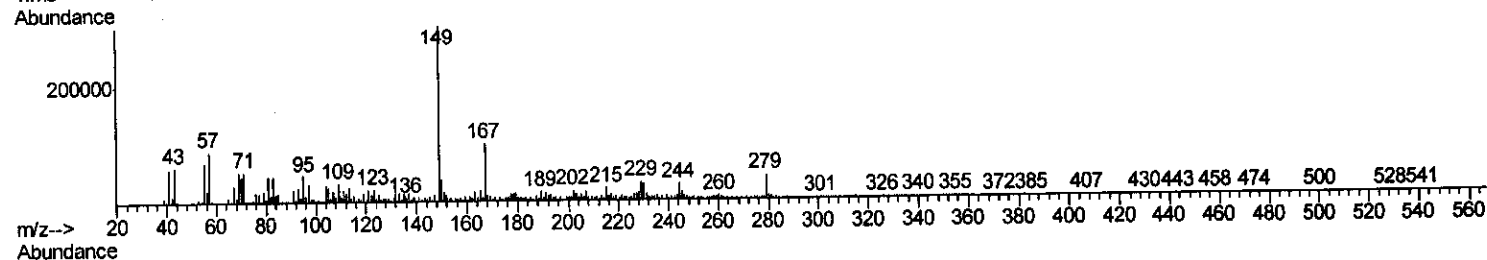
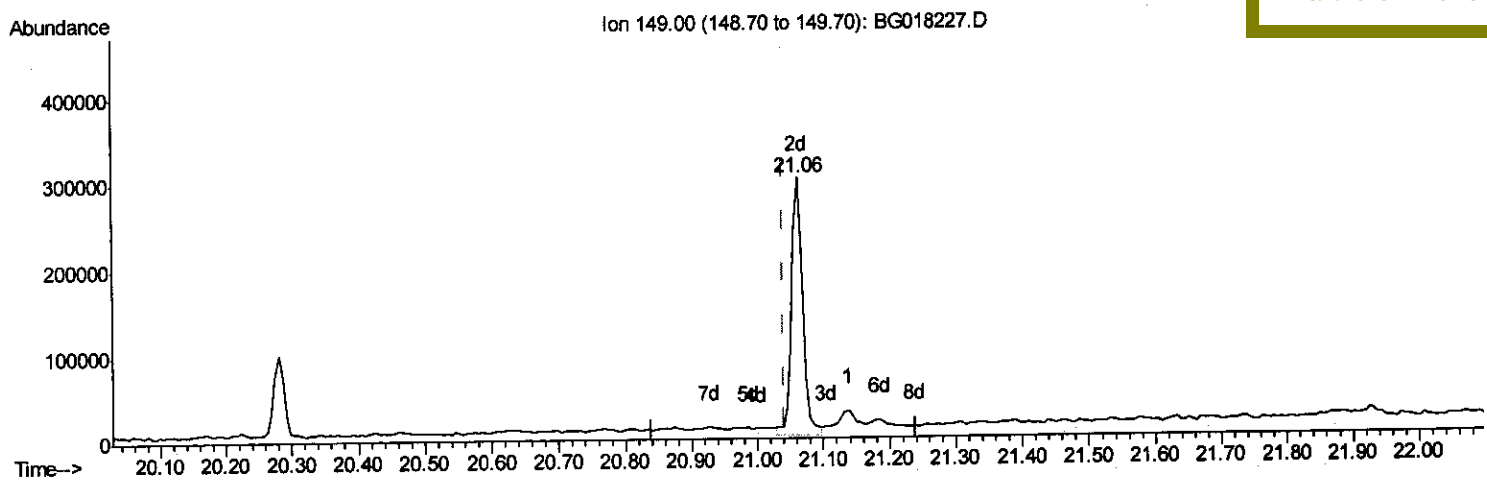
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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 ALS Vial : 26 Sample Multiplier: 1

Instrument :
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(84) Bis(2-ethylhexyl)phthalate

21.062min (+0.022) 14.24ng/ul m

response 355340

> U.M
 08/11/15

Ion	Exp%	Act%
149.00	100	100
167.00	34.30	32.80
279.00	10.40	13.79#
0.00	0.00	0.00

Quantitation Report (Qedit)

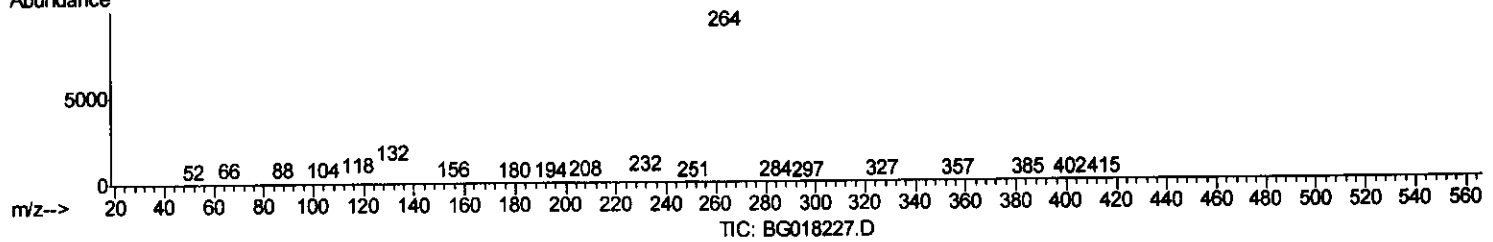
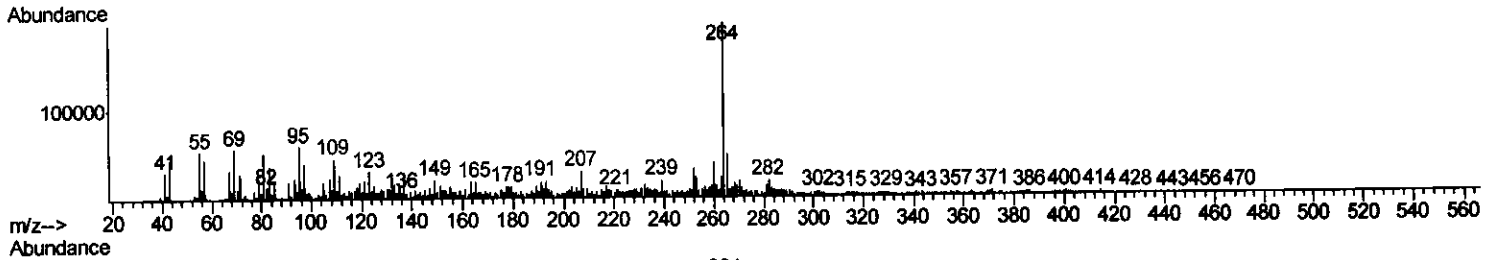
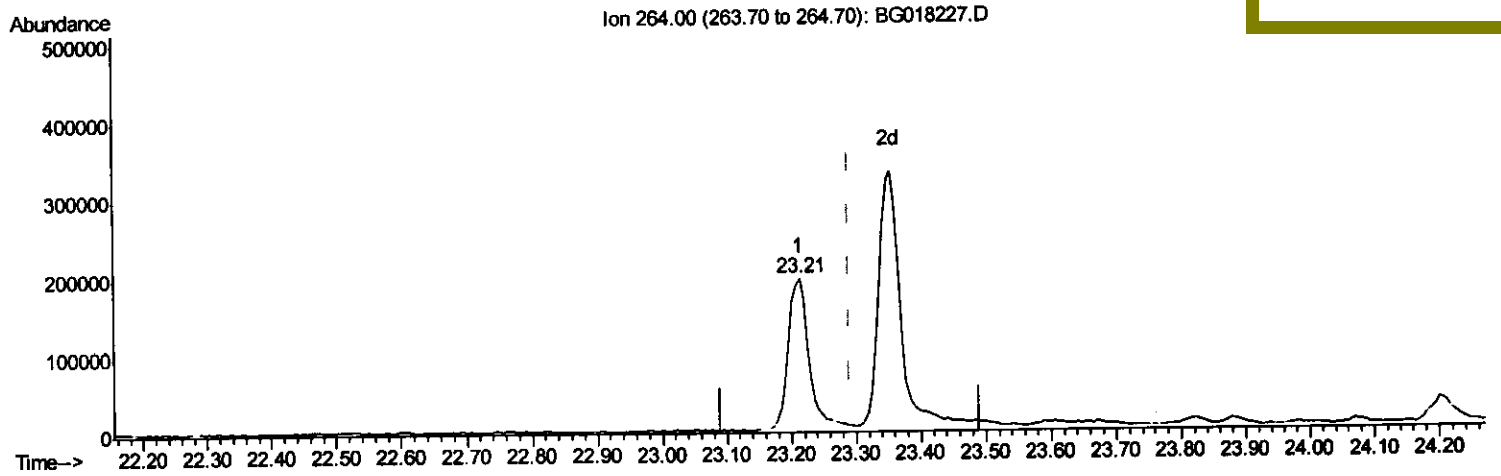
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Manual Integrations
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(86) Perylene-d12 (I)

23.213min (-0.078) 20.00ng/ui

response 427338

Ion	Exp%	Act%
264.00	100	100
260.00	22.50	19.66
265.00	22.20	24.92
0.00	0.00	0.00

Quantitation Report (Qedit)

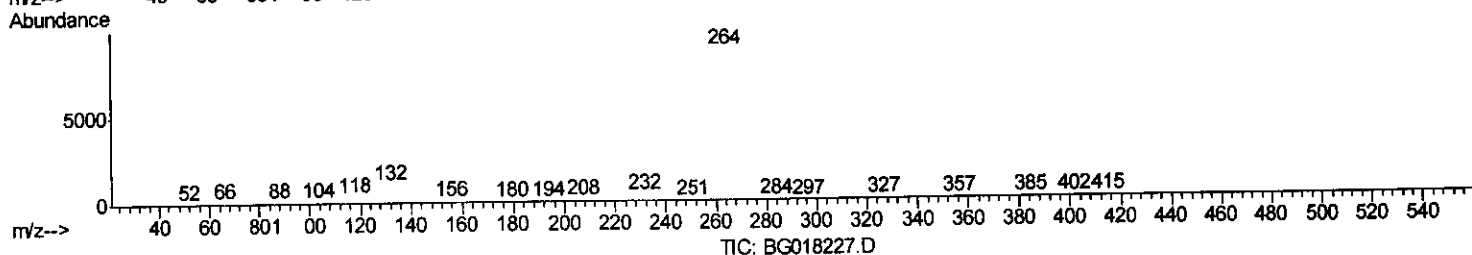
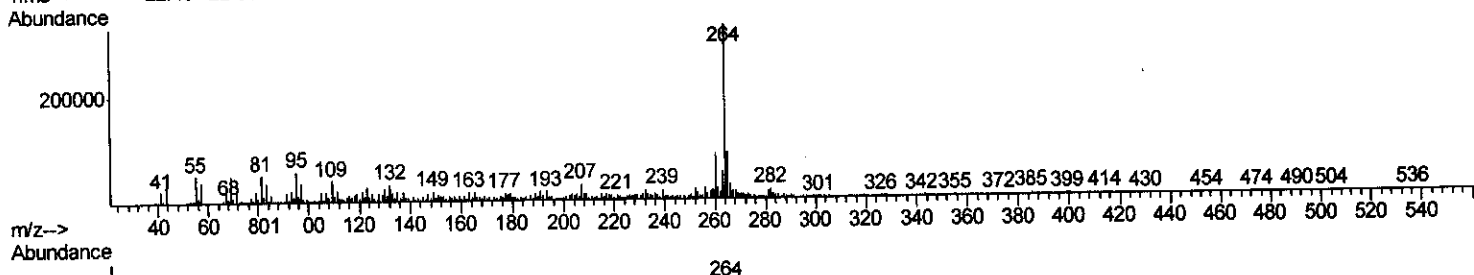
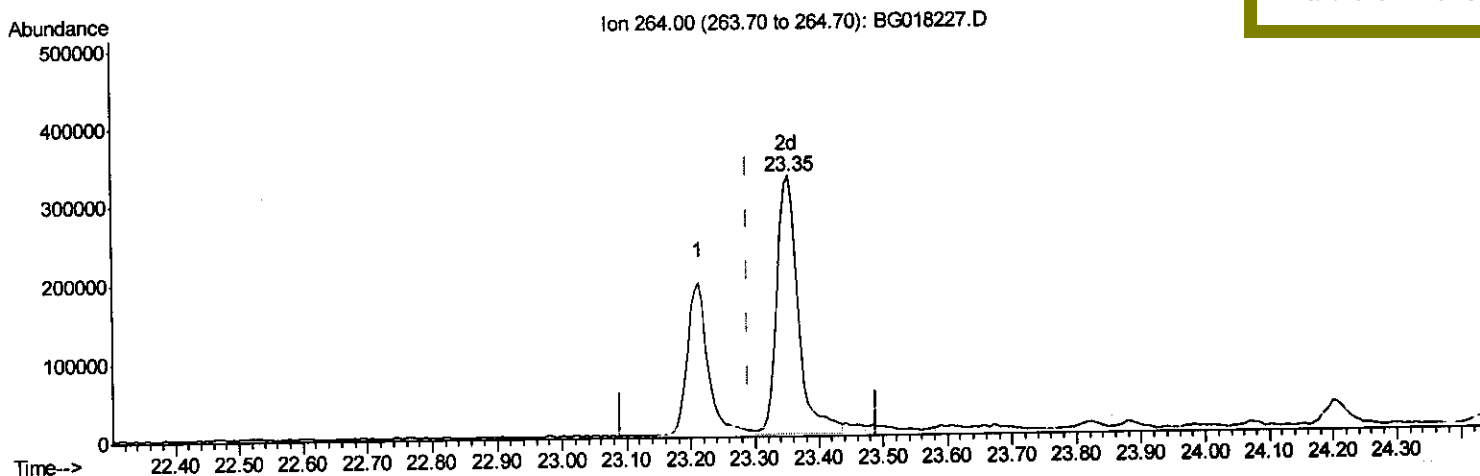
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 Data File : BG018227.D
 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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(86) Perylene-d12 (I)

23.354min (+0.063) 20.00ng/ul m

response 761773

Ion	Exp%	Act%
264.00	100	100
260.00	22.50	26.39
265.00	22.20	27.11#
0.00	0.00	0.00

U.M
 08111115

Quantitation Report (Qedit)

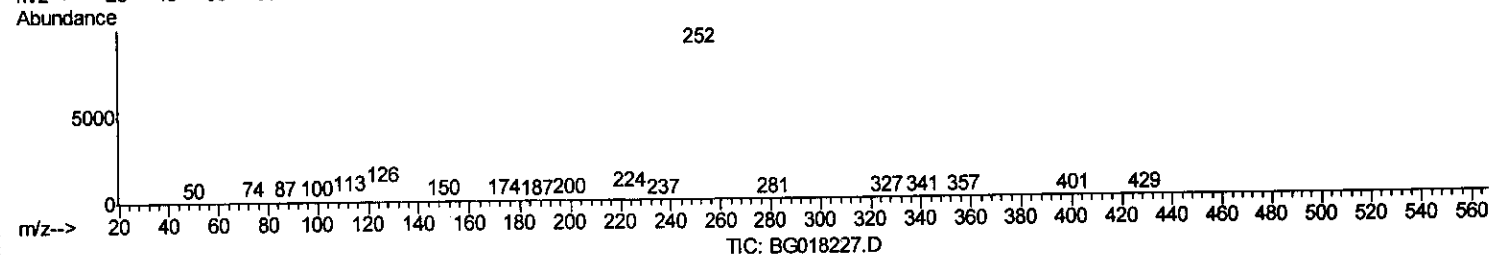
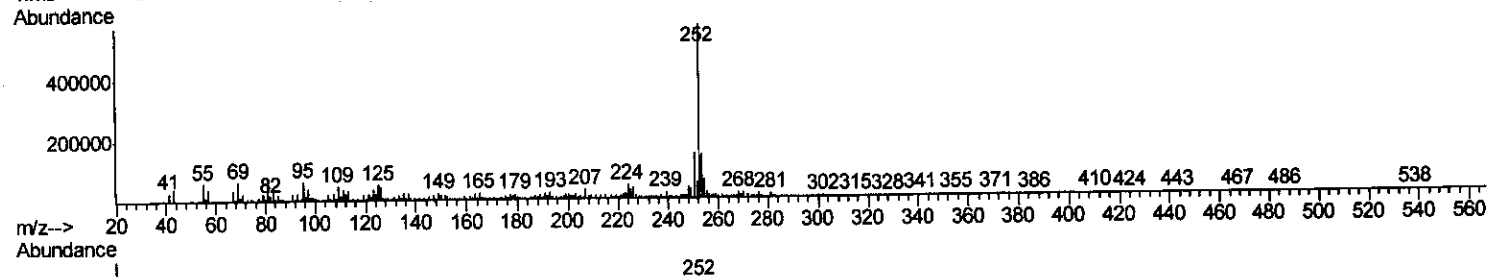
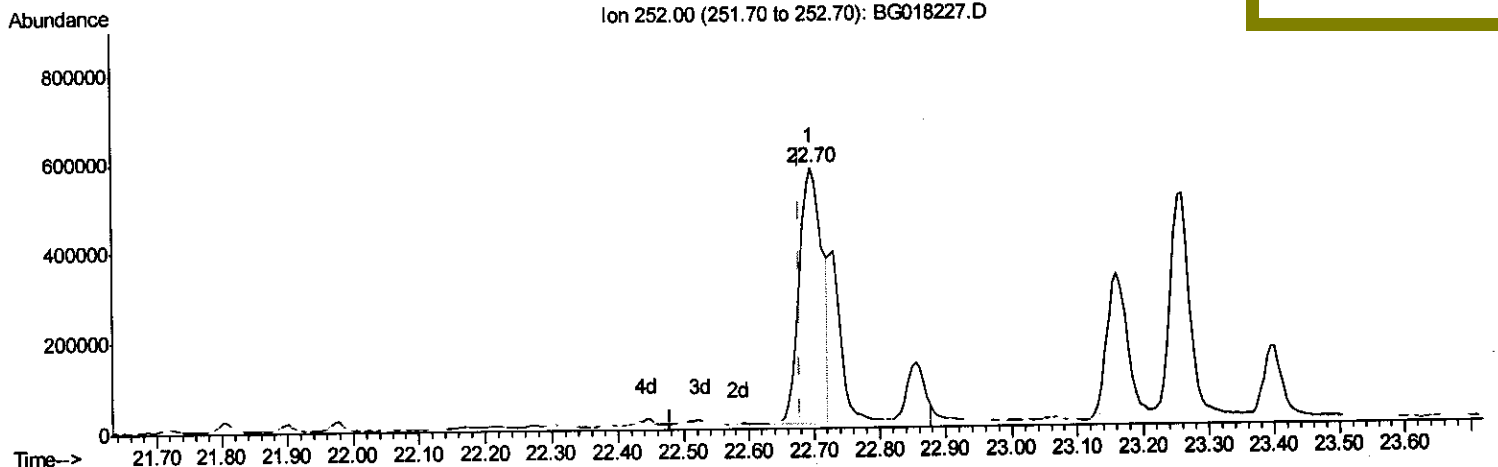
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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(89) Benzo(k)fluoranthene

22.696min (+0.016) 33.32ng/ul

response 1401567

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	25.20
125.00	9.40	8.62
0.00	0.00	0.00

Quantitation Report (Qedit)

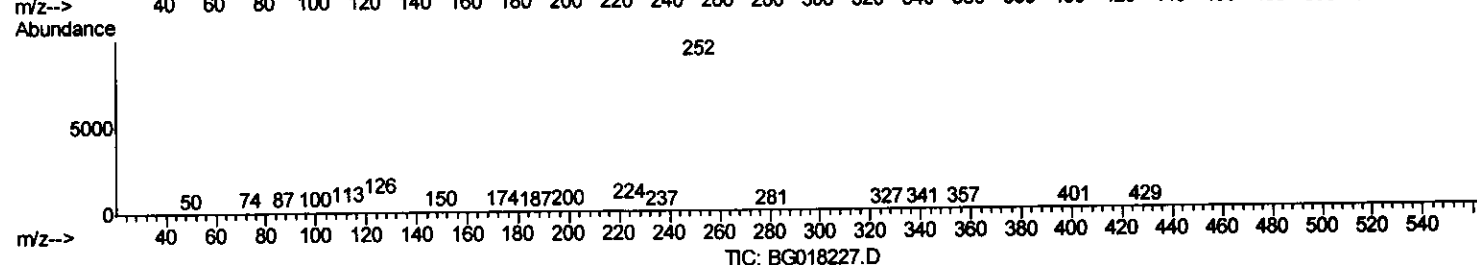
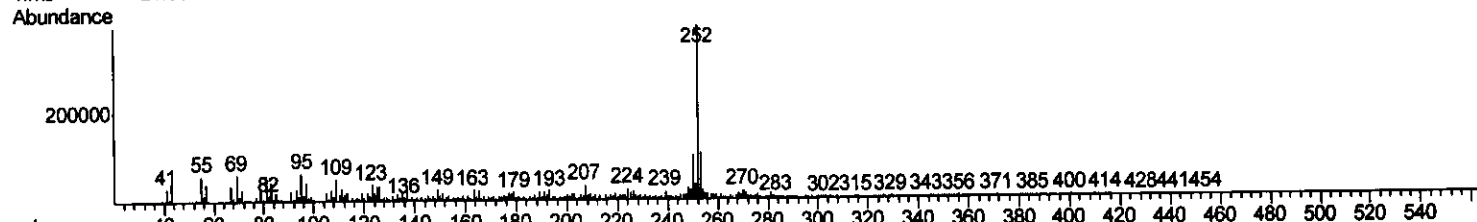
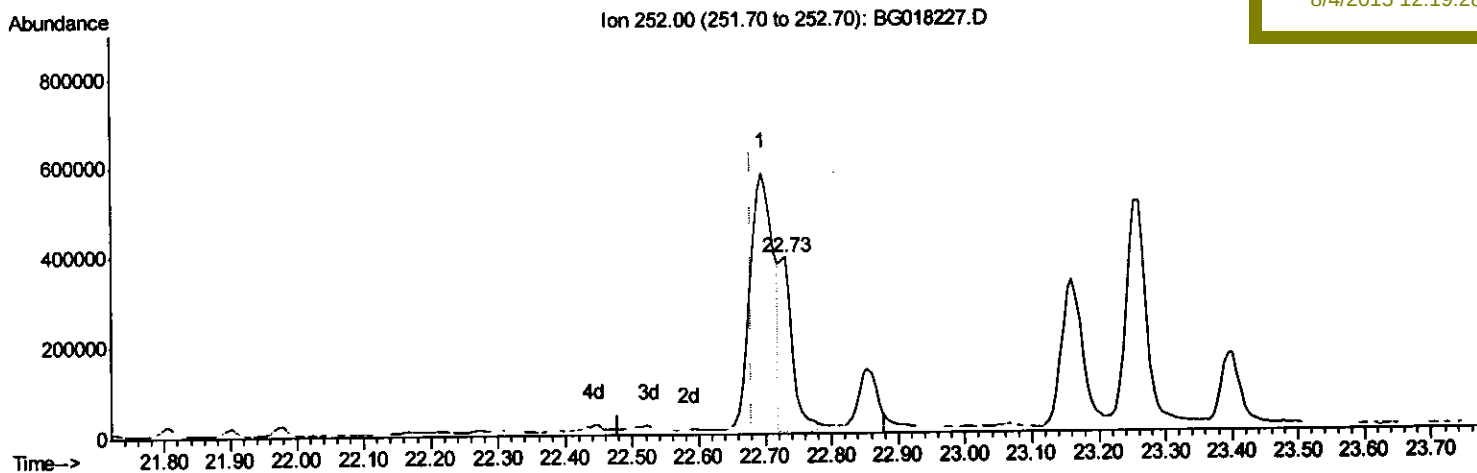
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
 Data File : BG018227.D
 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02G6RE

Quant Time: Aug 03 09:28:55 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 03 05:58:42 2015
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Manual Integrations
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 8/4/2015 12:19:28 PM



(89) Benzo(k)fluoranthene

22.731min (+0.052) 12.02ng/ul m

response 505374

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	26.65
125.00	9.40	8.28
0.00	0.00	0.00

> $\frac{U.M}{08111115}$

Quantitation Report (Qedit)

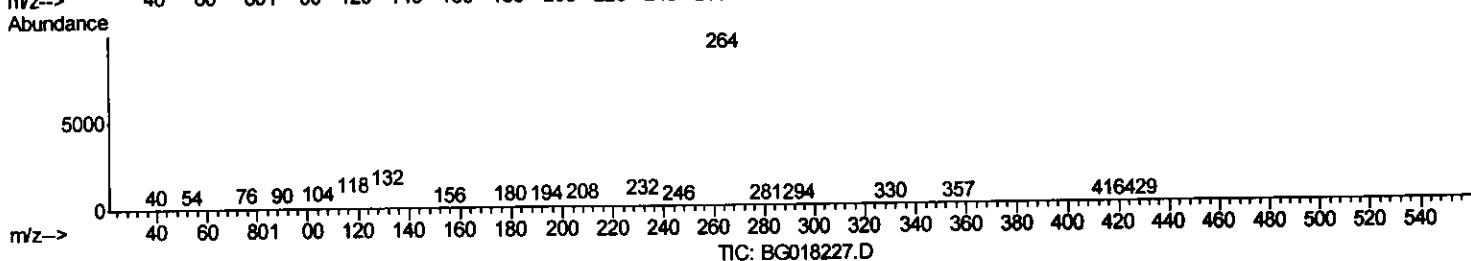
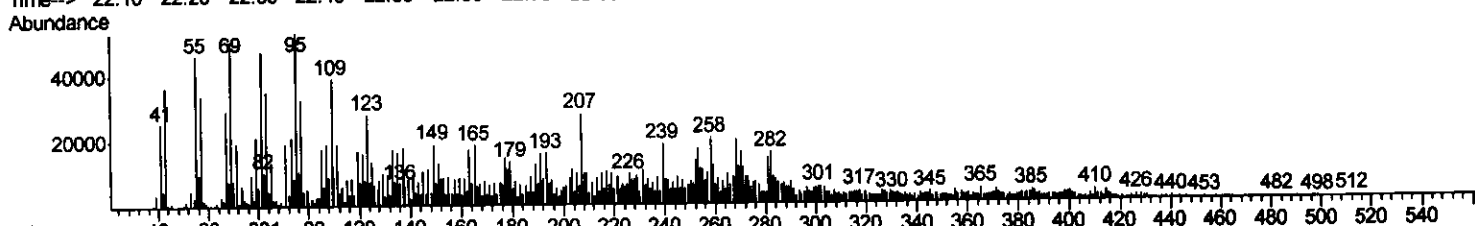
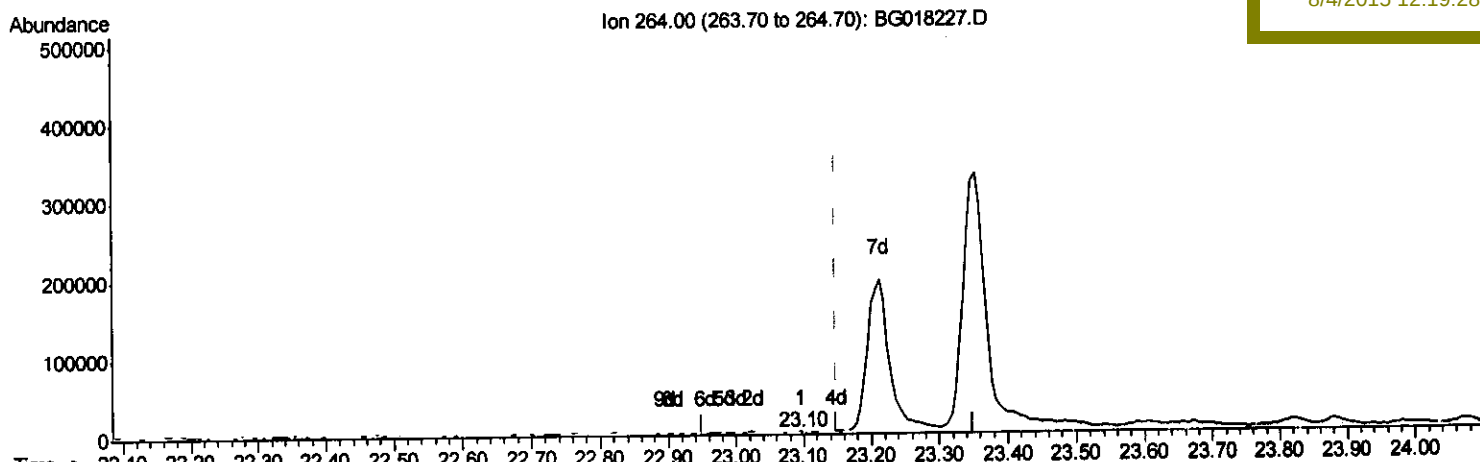
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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C02G6RE

Manual Integrations
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(90) Benzo(a)pyrene-d12 (S)

23.095min (-0.054) 0.01ng/ul

response 519

Ion	Exp%	Act%
264.00	100	100
132.00	15.20	73.92#
118.00	7.60	72.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

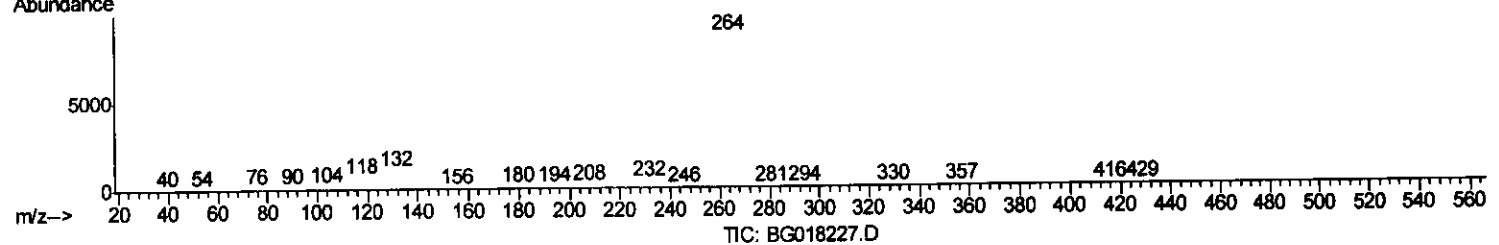
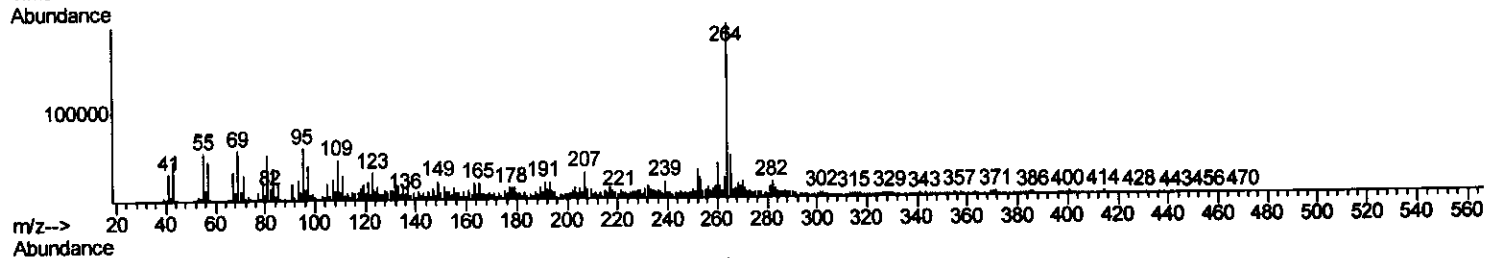
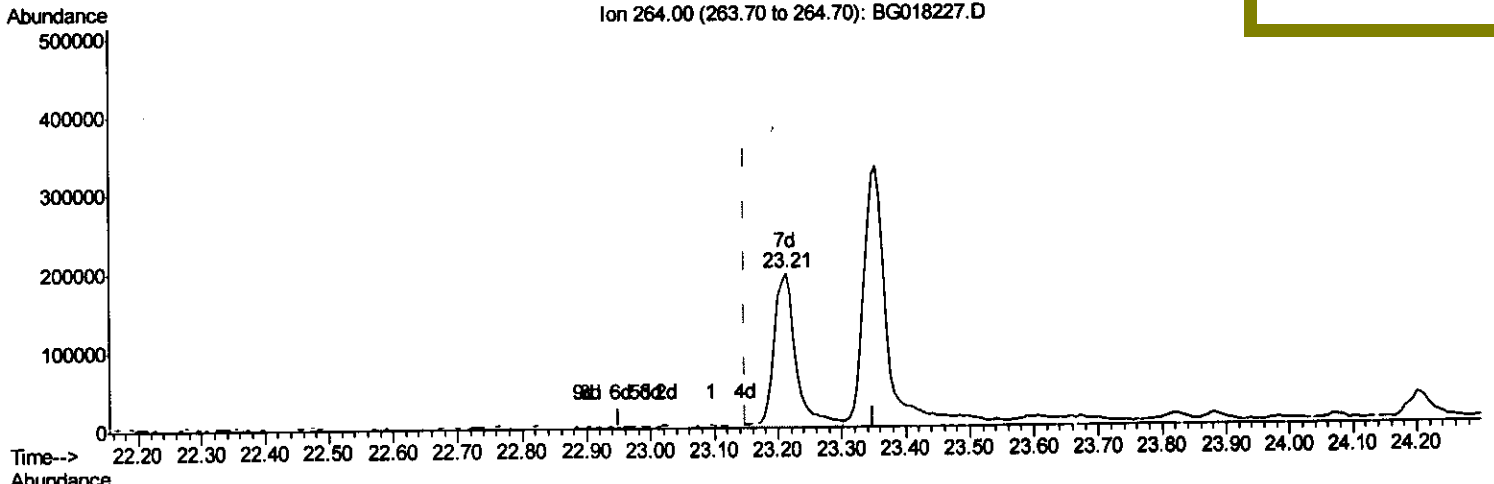
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
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(90) Benzo(a)pyrene-d12 (S)

23.213min (+0.063) 11.82ng/ul m

response 455522

Ion Exp% Act%

264.00 100 100

132.00 15.20 9.05#

118.00 7.60 6.80

0.00 0.00 0.00

> U.M
 08/11/15

Quantitation Report (Qedit)

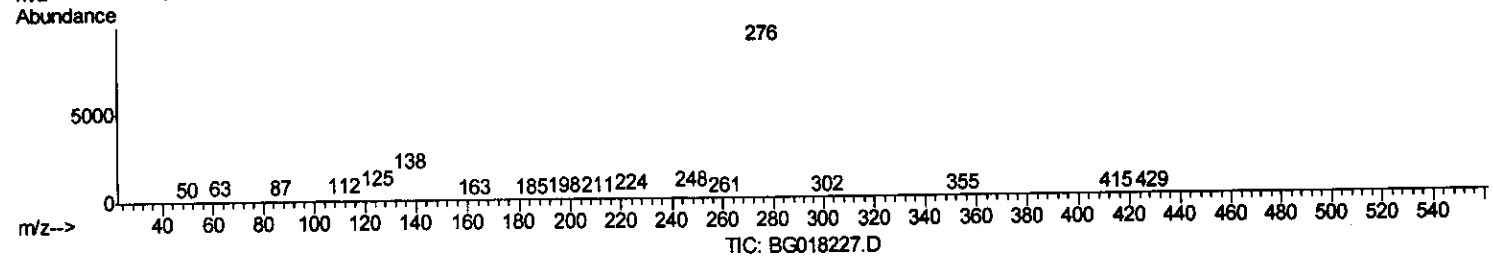
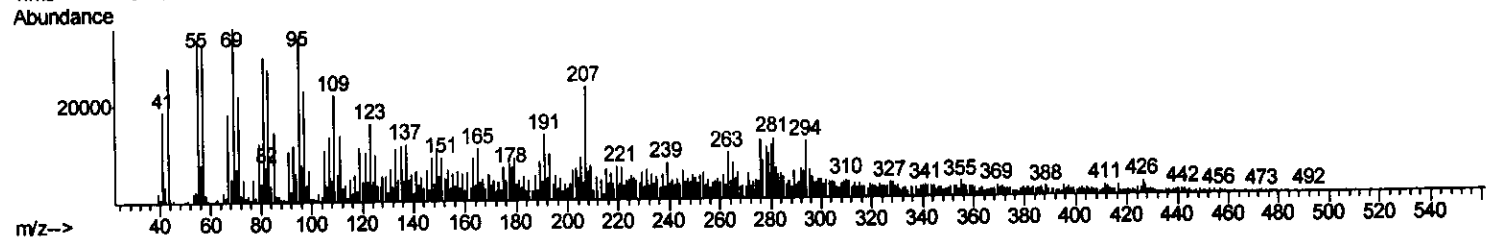
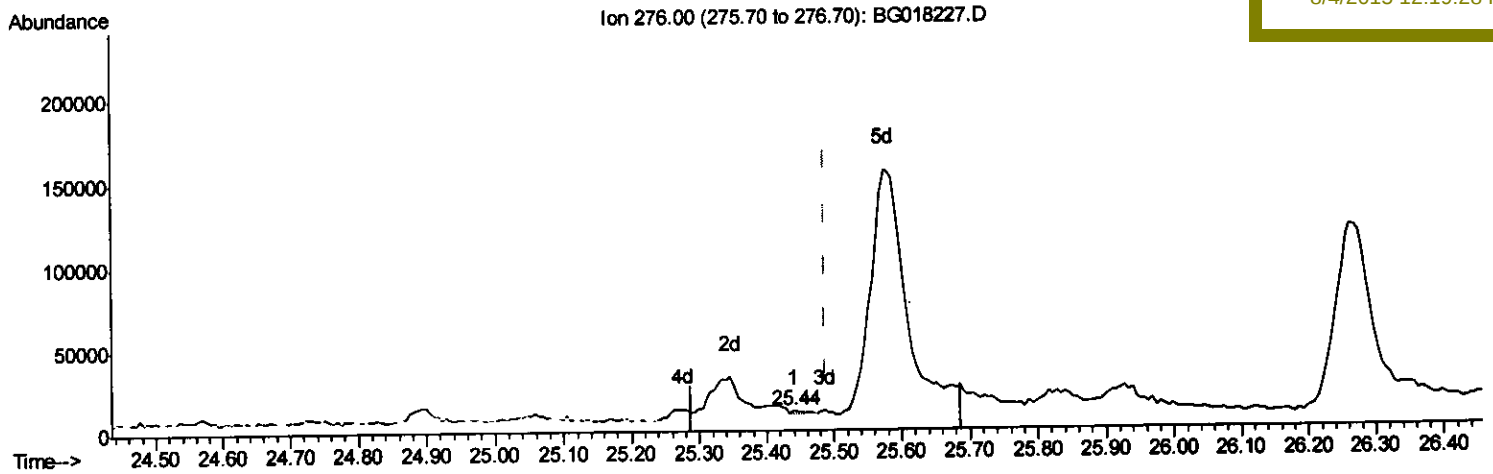
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(92) Indeno(1,2,3-cd)pyrene

25.439min (-0.048) 0.04ng/ul

response 2062

Ion	Exp%	Act%
276.00	100	100
138.00	21.50	38.39#
277.00	24.40	66.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

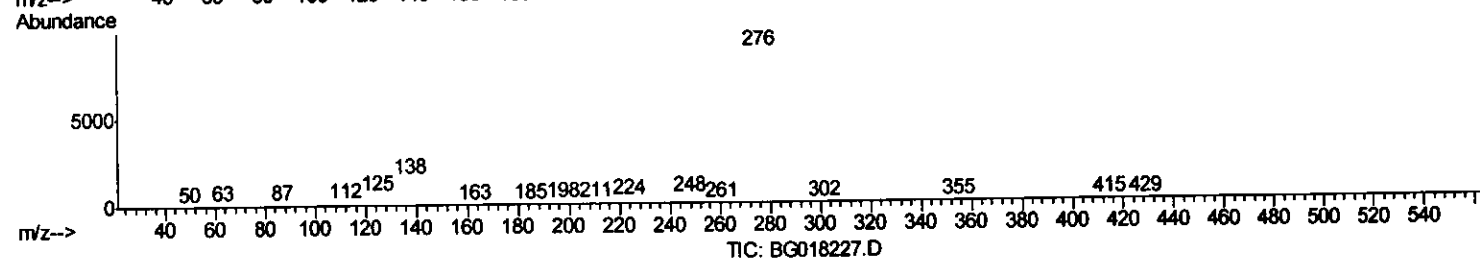
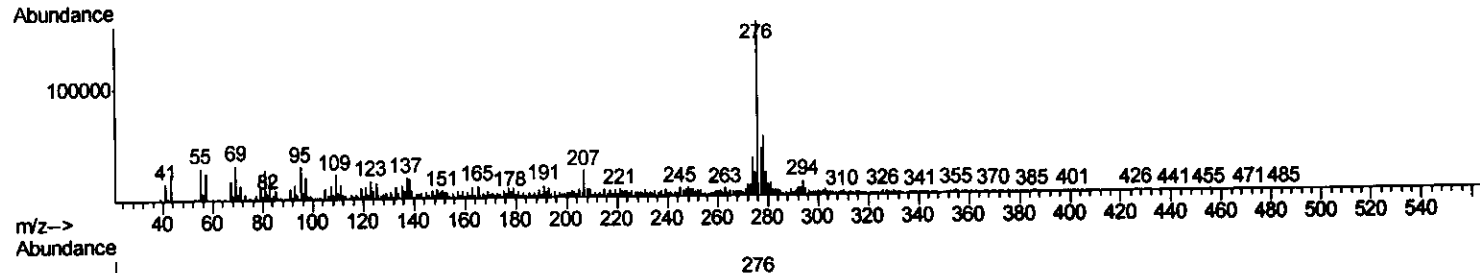
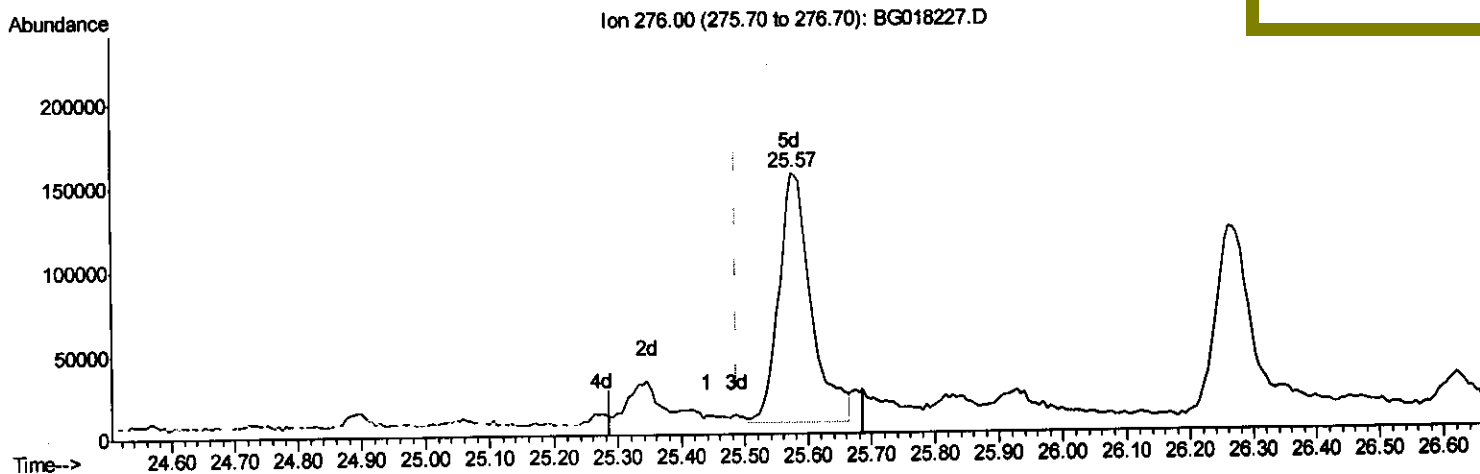
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(92) Indeno(1,2,3-cd)pyrene

25.575min (+0.087) 11.33ng/ul m

response 536401

Ion	Exp%	Act%
276.00	100	100
138.00	21.50	11.43#
277.00	24.40	27.27
0.00	0.00	0.00

> U.M
 08/11/15

Quantitation Report (Qedit)

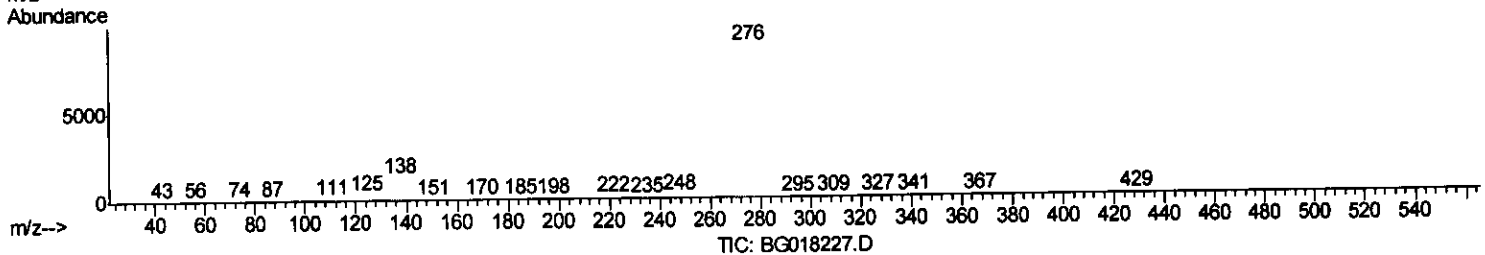
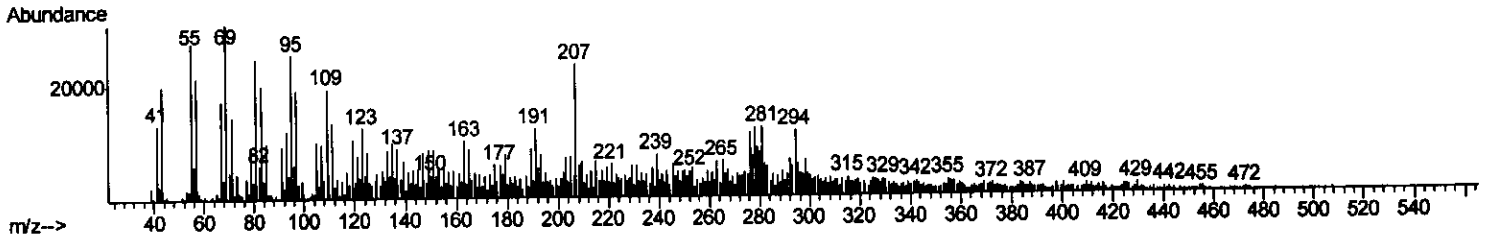
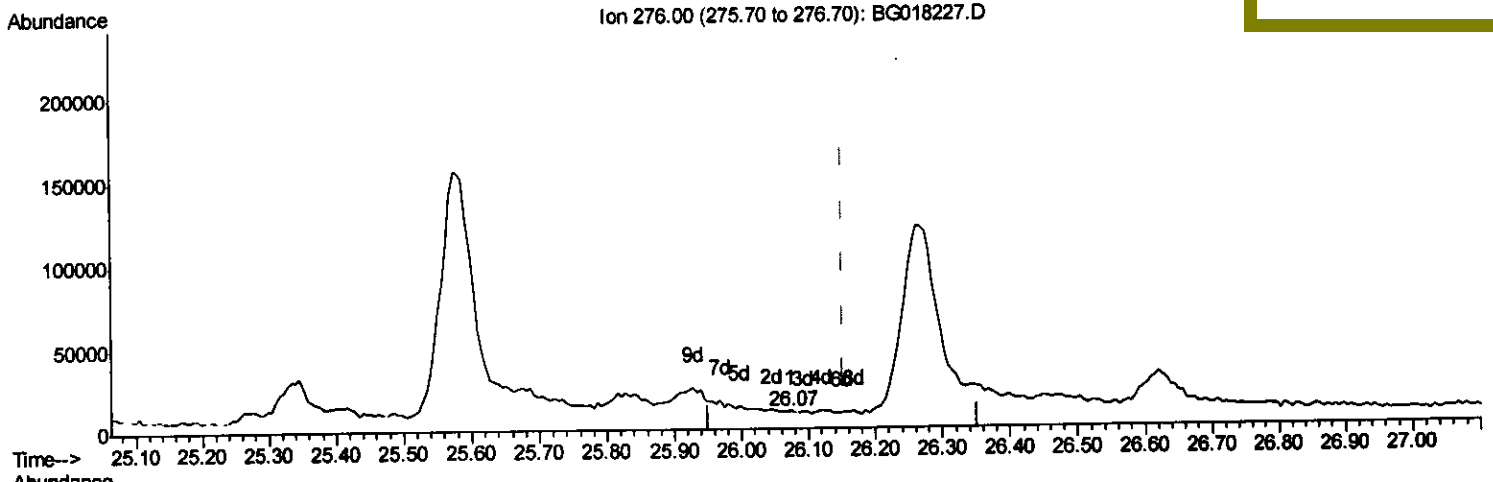
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(94) Benzo(g,h,i)perylene

26.074min (-0.078) 0.02ng/ul

response 638

Ion	Exp%	Act%
276.00	100	100
138.00	18.90	31.03#
277.00	24.70	64.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

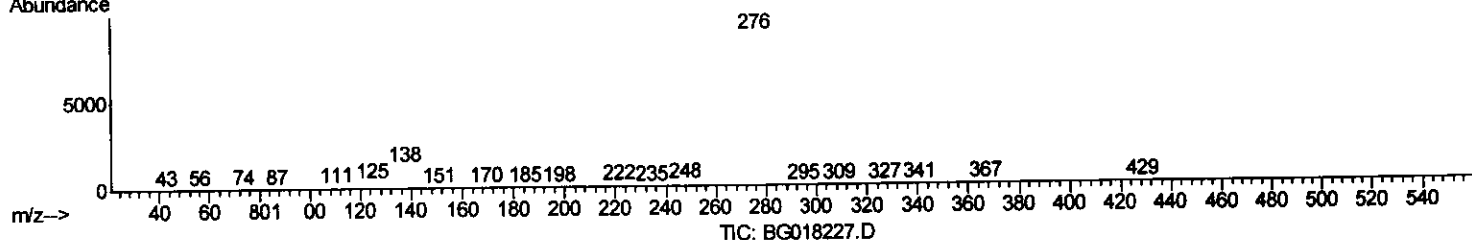
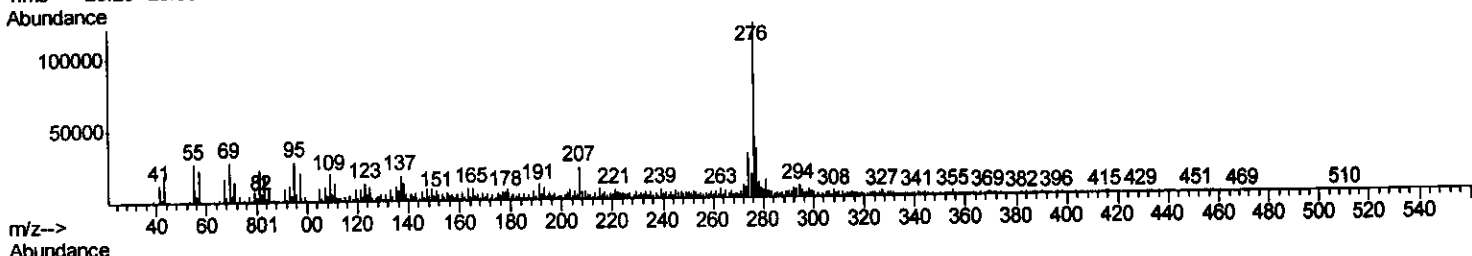
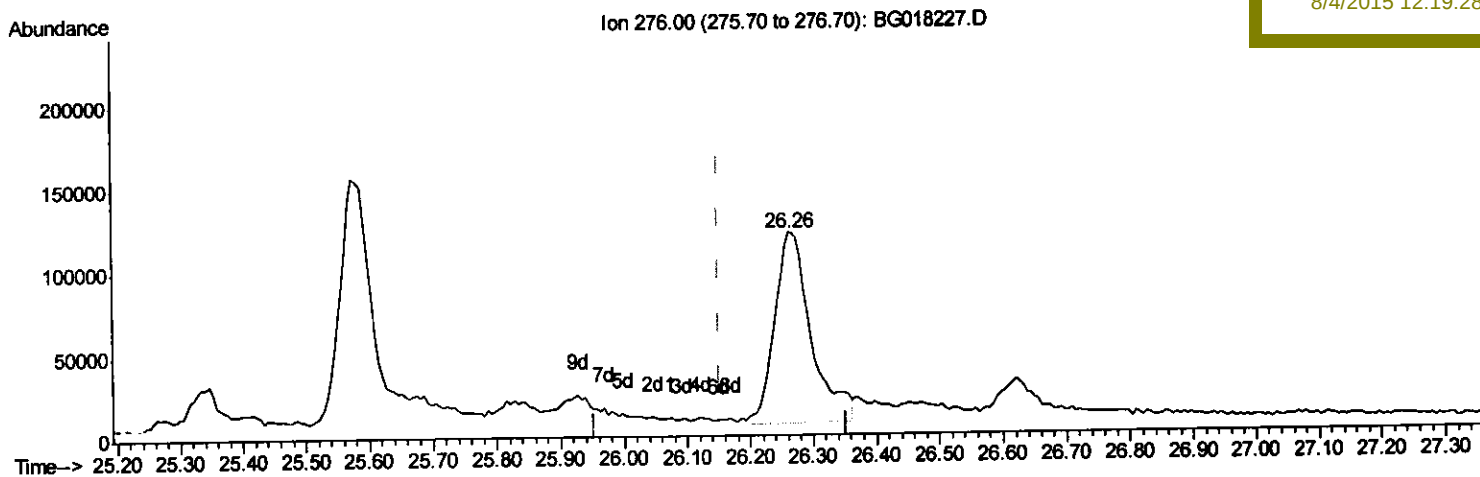
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
 Data File : BG018227.D
 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02G6RE

Quant Time: Aug 03 09:28:55 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 03 05:58:42 2015
 Response via : Initial Calibration

Manual Integrations
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 8/4/2015 12:19:28 PM



(94) Benzo(g,h,i)perylene

26.262min (+0.110) 11.96ng/ul m

response 462557

Ion	Exp%	Act%
276.00	100	100
138.00	18.90	10.72#
277.00	24.70	28.44
0.00	0.00	0.00

> U.M
 08/11/15

Quantitation Report (Qedit)

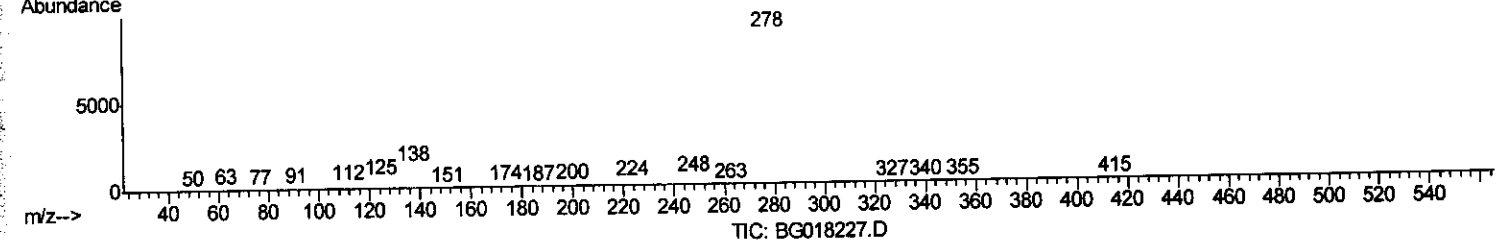
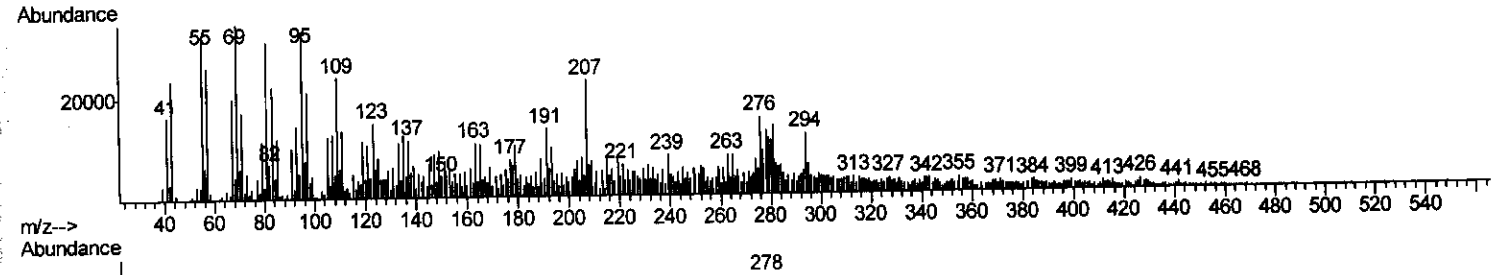
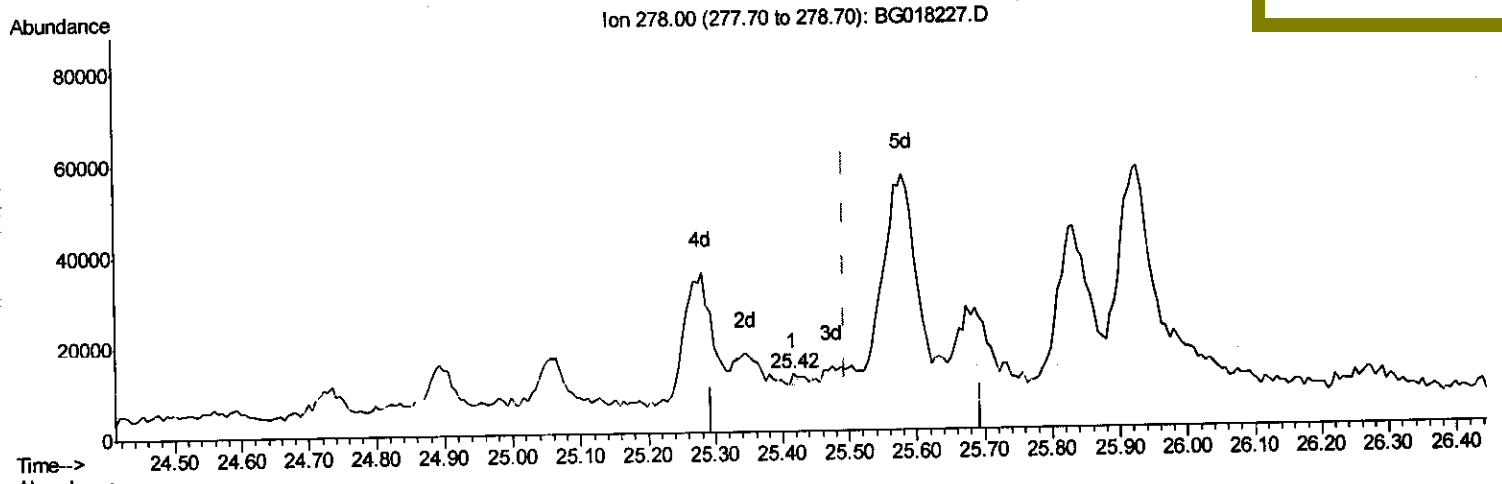
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
 Data File : BG018227.D
 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02G6RE

Quant Time: Aug 03 09:31:31 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 03 05:58:42 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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 8/4/2015 12:19:28 PM



(93) Dibenzo(a,h)anthracene

25.416min (-0.078) 0.03ng/ul

response 1387

Ion	Exp%	Act%
278.00	100	100
139.00	15.20	51.09#
279.00	25.00	89.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

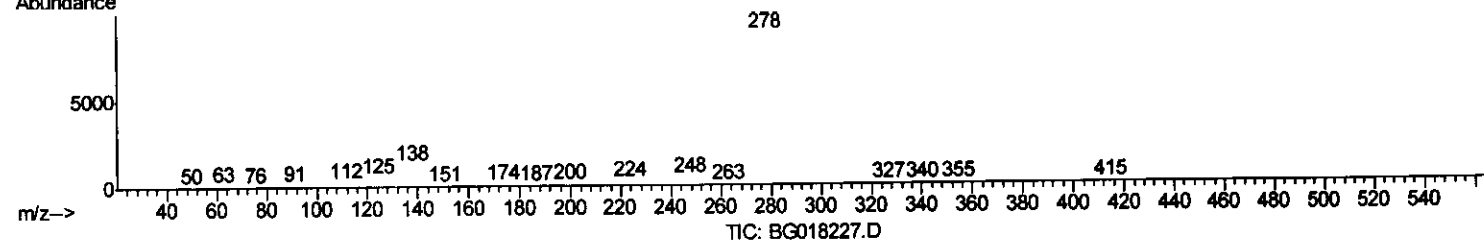
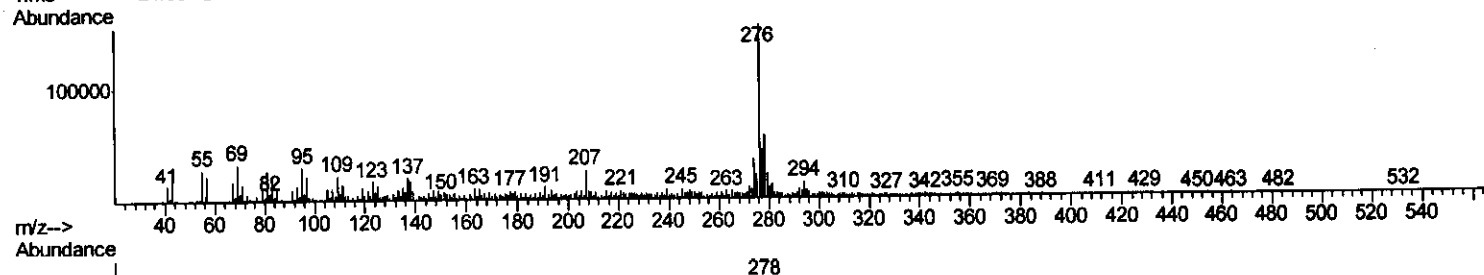
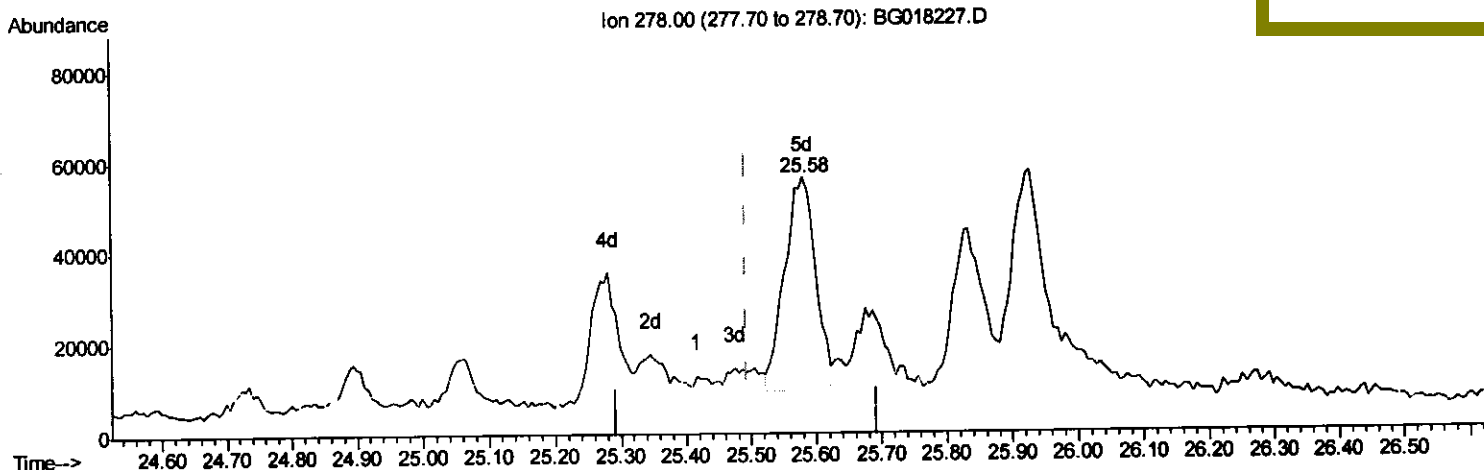
Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
 Data File : BG018227.D
 Acq On : 2 Aug 2015 15:50
 Operator : TP
 Sample : G3065-21RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02G6RE

Quant Time: Aug 03 09:31:31 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 03 05:58:42 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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(93) Dibenzo(a,h)anthracene

25.580min (+0.087) 3.79ng/ul m

response 153811

Ion	Exp%	Act%
278.00	100	100
139.00	15.20	15.00
279.00	25.00	39.81#
0.00	0.00	0.00

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 08/11/15

Data Path : Z:\HPCHEM1\BNA G\data\BG080215\
Data File : BG018227.D
Acq On : 2 Aug 2015 15:50
Operator : TP
Sample : G3065-21RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 03 09:32:41 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
Last Update : Mon Aug 03 05:58:42 2015
Response via : Initial Calibration

Internal Standards R.T. Qion Response Conc Units Dev(Min)

1) 1,4-Dichlorobenzene-d4	7.48	152	149310	20.00	ng/ul	0.00
18) Naphthalene-d8	10.27	136	657201	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.16	164	337475	20.00	ng/ul	0.02
62) Phenanthrene-d10	16.93	188	545811	20.00	ng/ul	0.02
78) Chrysene-d12	21.14	240	750781	20.00	ng/ul	0.03
86) Perylene-d12	23.35	264	761773m	20.00	ng/ul	0.06

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.97	96	1707	0.86	ng/ul	0.01
5) Phenol-d5	6.68	99	128623	9.58	ng/ul	0.02
7) Bis-(2-Chloroethyl) ether-d	6.83	67	57013	8.31	ng/ul	0.01
13) 4-Methylphenol-d8	8.21	113	102838	9.41	ng/ul	0.01
19) Nitrobenzene-d5	8.64	128	59280	11.45	ng/ul	0.01
22) 2-Nitrophenol-d4	9.36	143	67568	11.37	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	9.90	165	123739	11.78	ng/ul	0.02
29) 4-Chloroaniline-d4	10.42	131	21087m	1.61	ng/ul	0.01
44) Dimethylphthalate-d6	13.58	166	306916	11.77	ng/ul	0.01
47) Acenaphthylene-d8	13.85	160	365757	12.10	ng/ul	0.02
52) 4-Nitrophenol-d4	14.42	143	39479	8.18	ng/ul	0.02
58) Fluorene-d10	15.16	176	239154	10.13	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.32	200	4699	1.23	ng/ul	0.02
71) Anthracene-d10	17.03	188	290296	12.23	ng/ul	0.02
79) Pyrene-d10	19.34	212	323758	8.91	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.21	264	455522m	11.82	ng/ul	0.06

Target Compounds

28) Naphthalene	10.32	128	1186272	37.49	ng/ul	99
34) 2-Methylnaphthalene	11.95	142	891339	35.59	ng/ul	98
35) 1-Methylnaphthalene	12.17	142	890805	37.07	ng/ul	97
41) 1,1'-Biphenyl	12.98	154	198006	8.21	ng/ul	99
45) Dimethylphthalate	13.62	163	190236	7.33	ng/ul	99
48) Acenaphthylene	13.88	152	585907	19.51	ng/ul	95
50) Acenaphthene	14.22	153	120755	6.17	ng/ul	98
54) Dibenzofuran	14.56	168	118284	4.01	ng/ul	76
59) Fluorene	15.22	166	471551	18.55	ng/ul	100
70) Phenanthrene	16.98	178	2550924m	92.00	ng/ul	98
72) Anthracene	17.06	178	287702	10.43	ng/ul	98
75) Carbazole	17.33	167	453369	1.98	ng/ul	94
76) Di-n-butylphthalate	17.91	149	87961	2.88	ng/ul	94
77) Fluoranthene	19.01	202	1742116	57.21	ng/ul	97
80) Pyrene	19.38	202	1934998	42.49	ng/ul	97
lphthalate	20.28	149	101828	5.50	ng/ul	79
lthracene	21.13	228	1279740	31.65	ng/ul	86
lhexyl)phthalate	21.06	149	355340m	14.24	ng/ul	86
noranthene	21.19	228	1449151	39.13	ng/ul	86
noranthene	22.70	252	1401567	30.63	ng/ul	96
Benzo(a)pyrene	23.26	252	922155	22.52	ng/ul	94
3-cd)pyrene	25.57	276	536401m	11.33	ng/ul	94

Manual Integrations
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8/4/2015 12:19:28 PM

Instrument :
BNA_G
ClientSampleId :
C02G6RE

15.M Tue Aug 04 07:41:53 2015

Data Path : Z:\HPCHEM1\BNA G\Data\BG080215\
Data File : BG018227.D
Acq On : 2 Aug 2015 15:50
Operator : TP
Sample : G3065-21RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
C02G6RE

Quant Time: Aug 03 09:32:41 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 03 05:58:42 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
8/4/2015 12:19:28 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	25.58	278	153811m	3.79	ng/ul	
94) Benzo(q,h,i)perylene	26.26	276	462557m	11.96	ng/ul	

U.M
08/11/15

(#) = qualifier out of range (m) = manual integration (+) = signals summed