

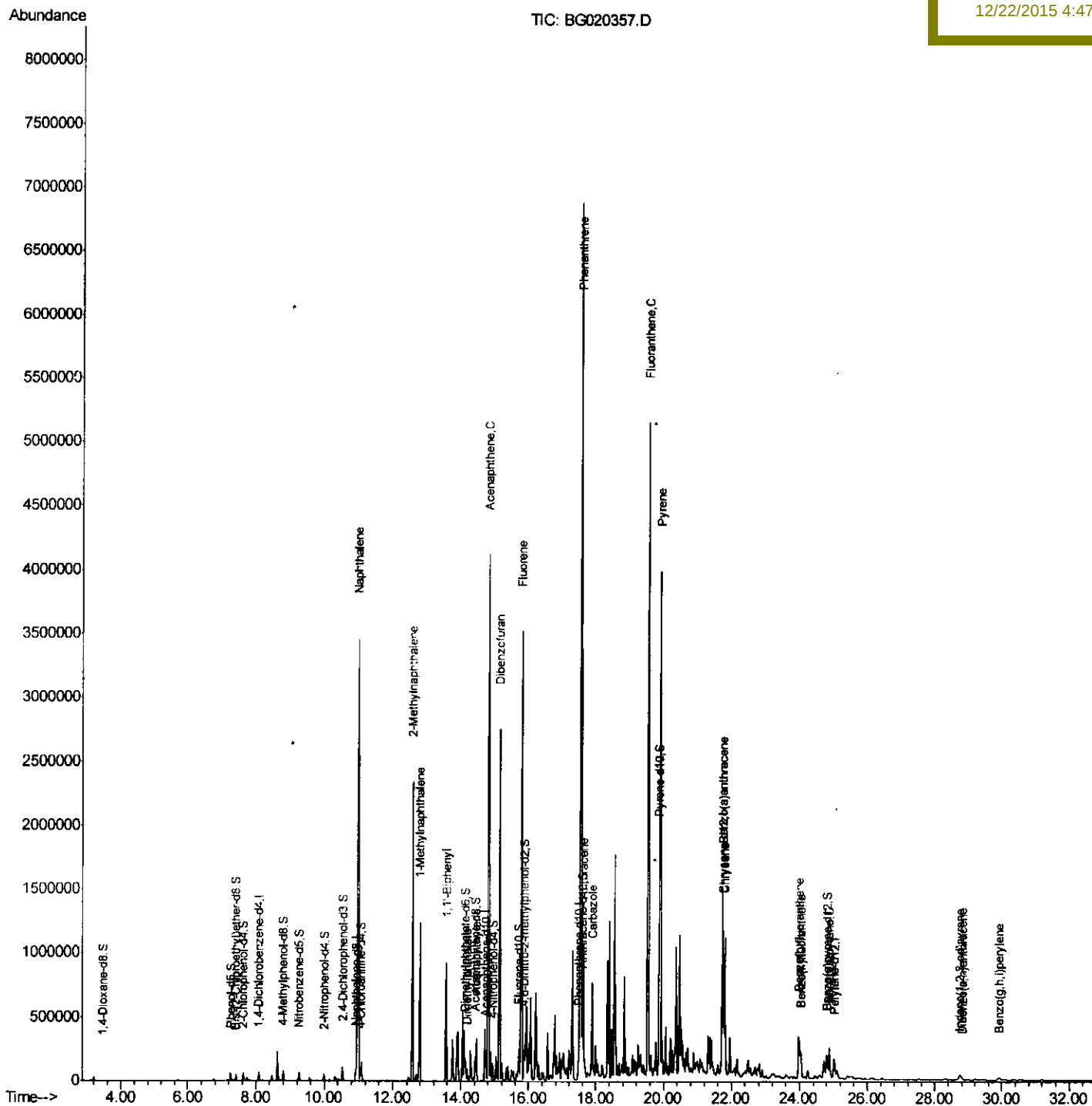
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 03:23:59 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
Qlast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration

Instrument :
BNA_G
Client Sample Id :
D9N49

Manual Integrations
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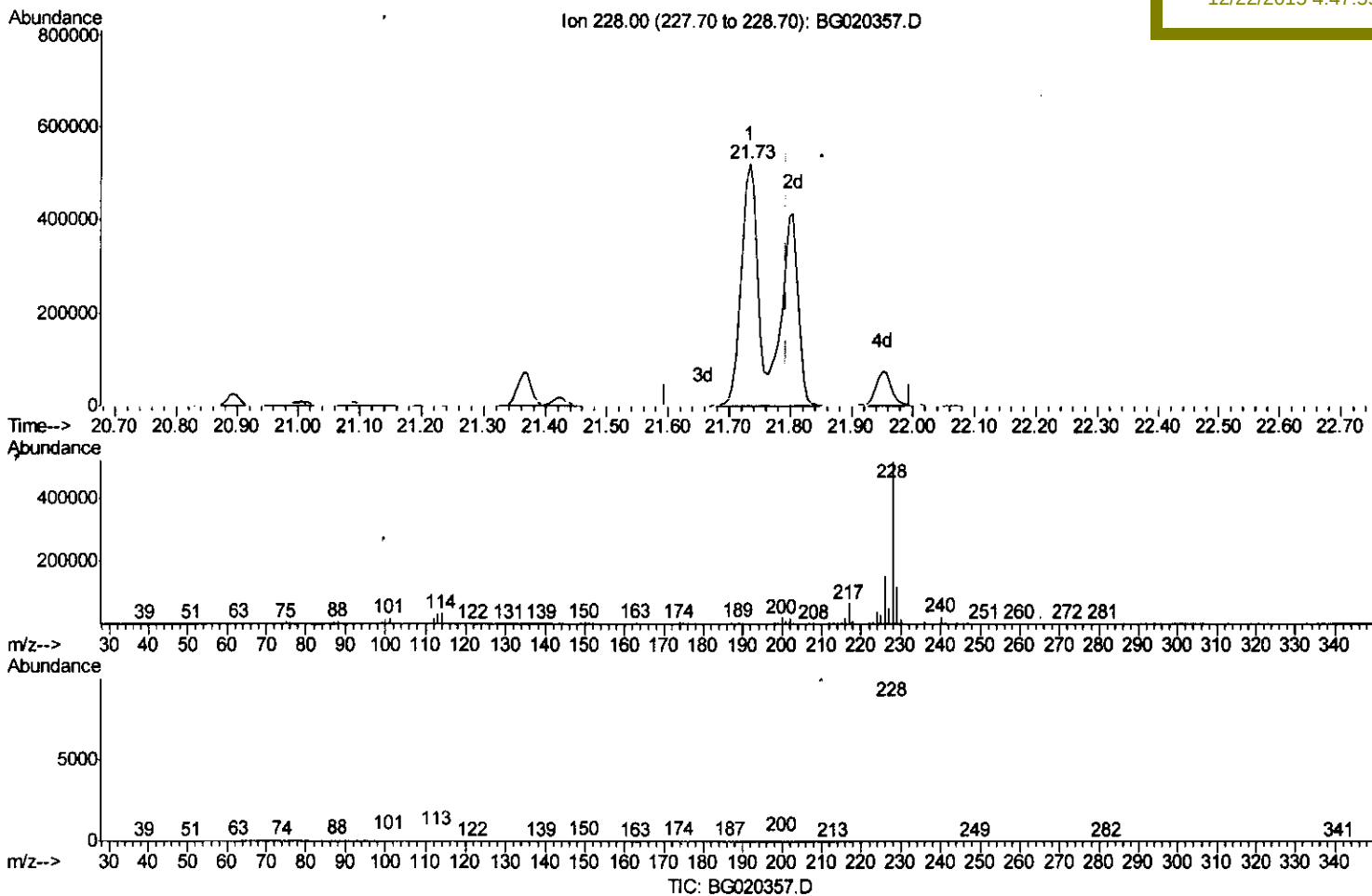
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N49

Quant Time: Dec 21 02:01:32 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration

Manual Integrations
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(85) Chrysene

21.734min (-0.061) 100.70ng/ul

response 981964

Ion	Exp%	Act%
228.00	100	100
226.00	29.90	29.60
229.00	19.50	22.35
0.00	0.00	0.00

Quantitation Report (Qedit)

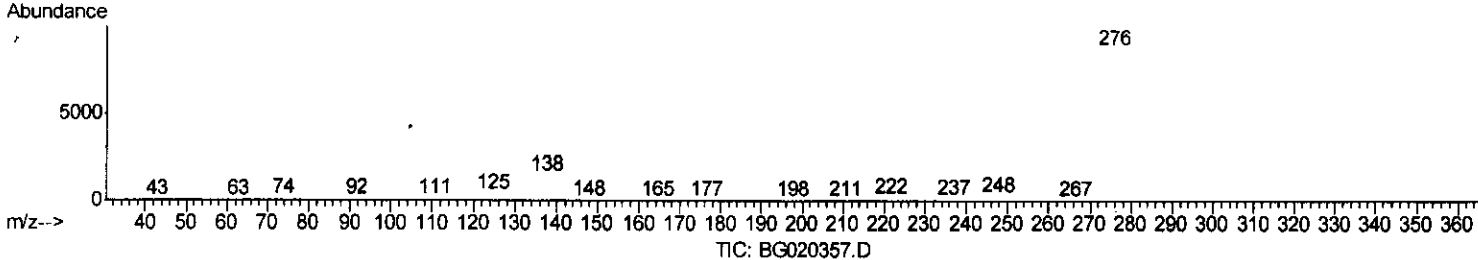
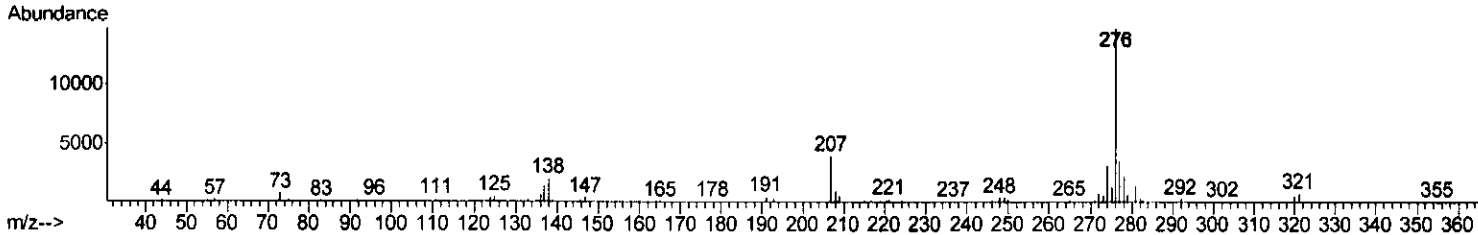
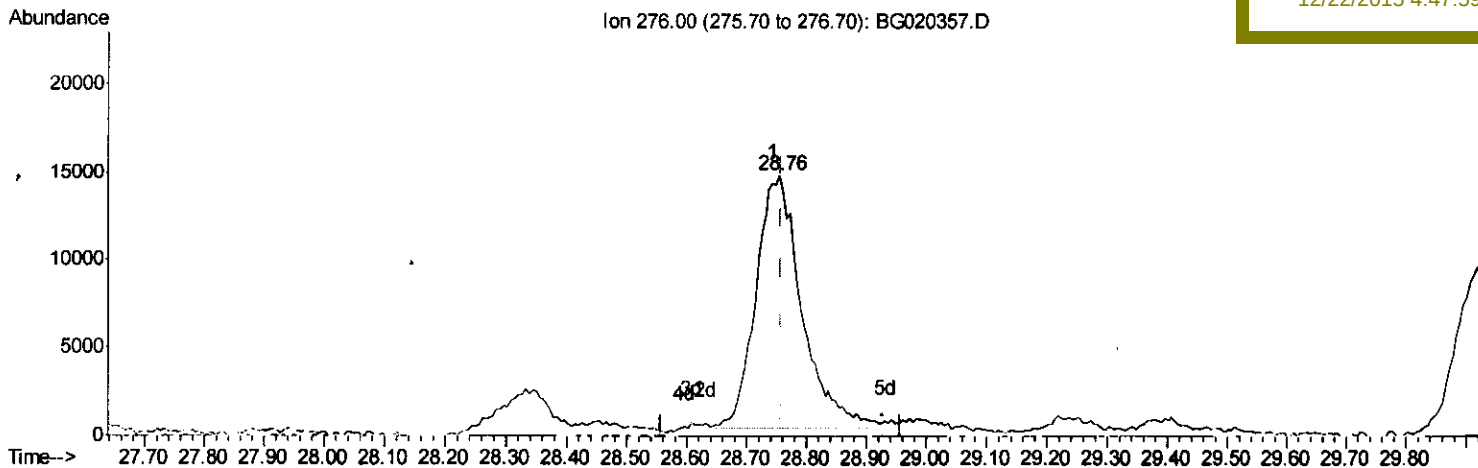
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 , 00:35
 Operator : UM/SJ
 Sample : C4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

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

28.755min (-0.002) 6.76ng/ul m

response 76423

U.M
 12/23/15

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	13.99
277.00	21.70	24.34
0.00	0.00	0.00

Quantitation Report (Qedit)

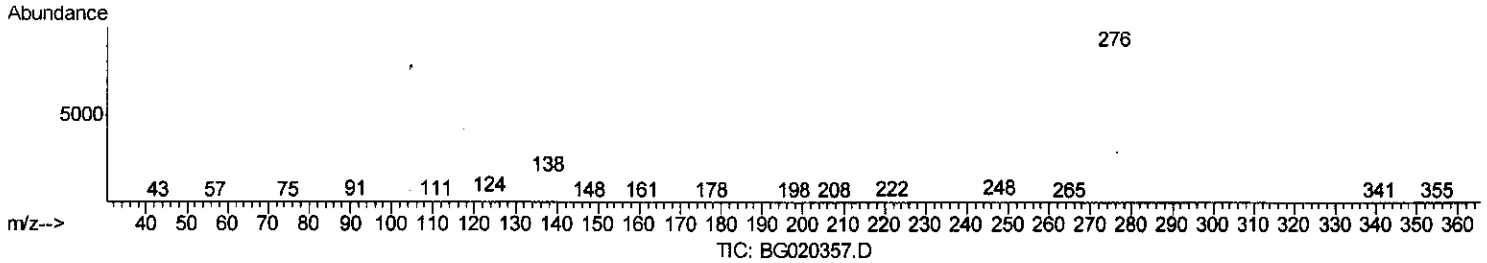
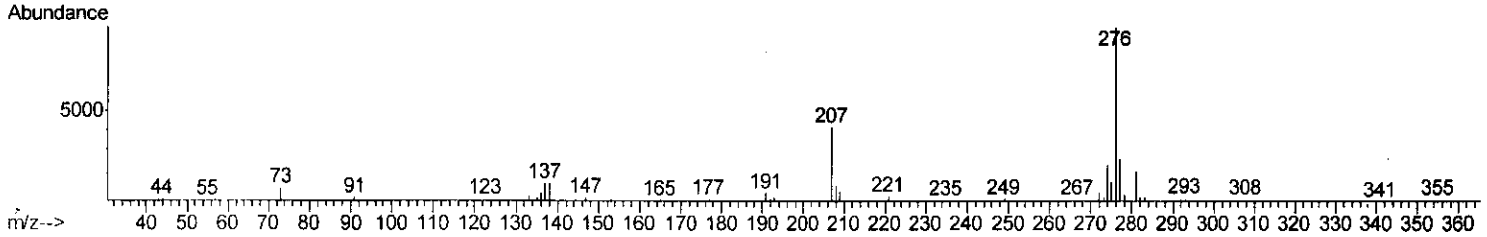
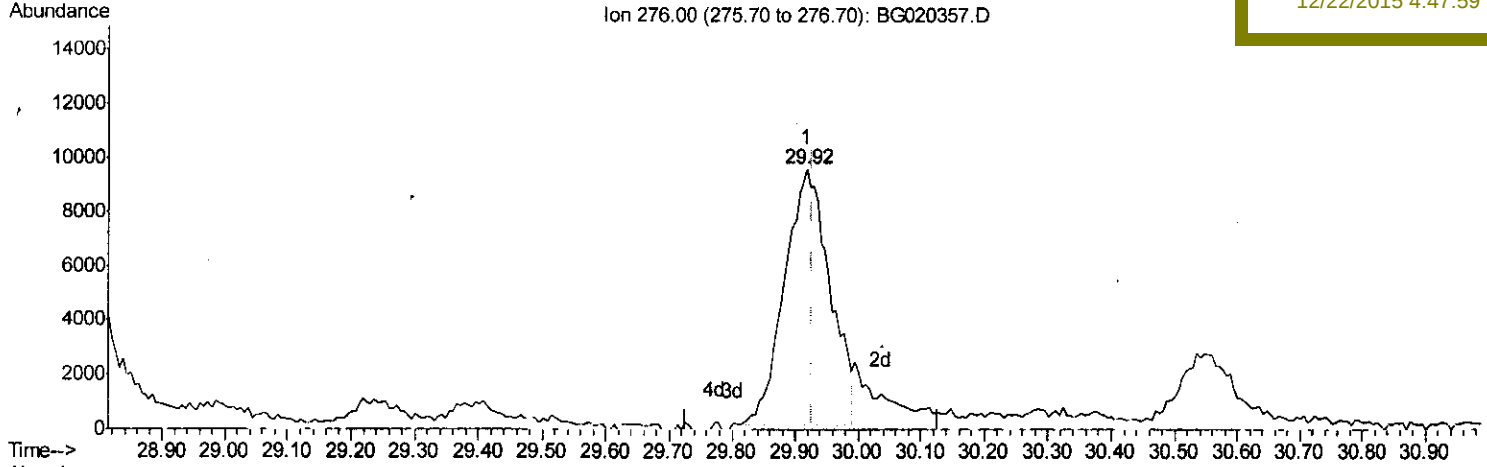
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

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

29.918min (-0.008) 5.11ng/ul

response 47369

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	11.48
277.00	24.90	25.12
0.00	0.00	0.00

Quantitation Report (Qedit)

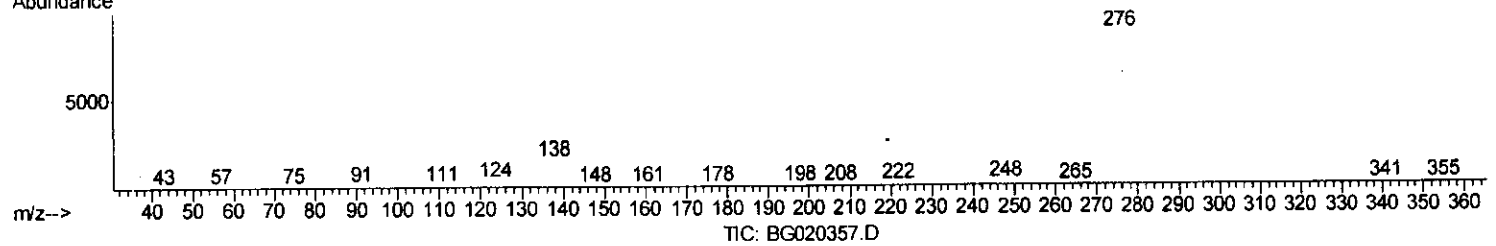
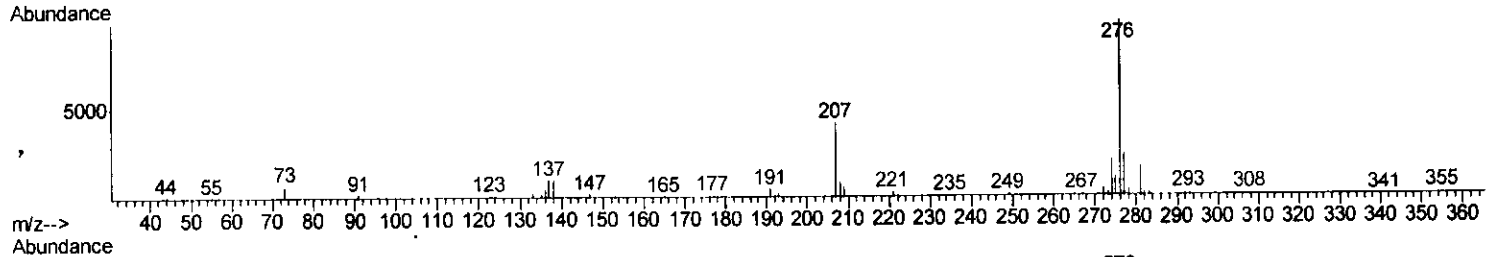
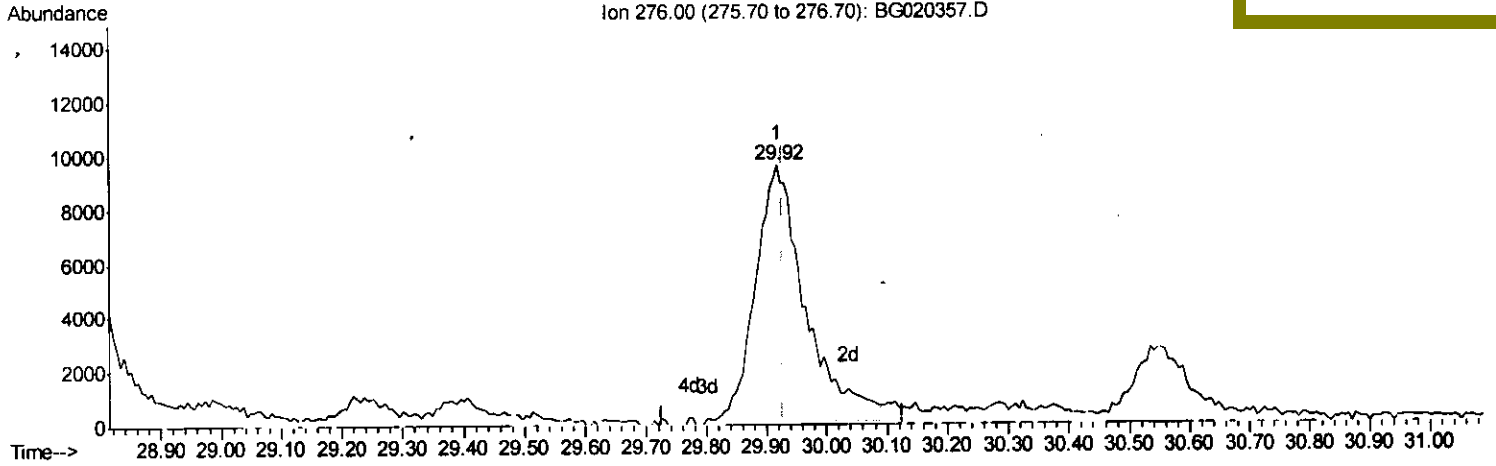
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

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

29.918min (-0.008) 5.86ng/ul m U.M

response 54378

12/23/15

Ion	Exp%	Act%
276.00	100	100
138.00	13.50	11.48
277.00	24.90	25.12
0.00	0.00	0.00

Quantitation Report (Qedit)

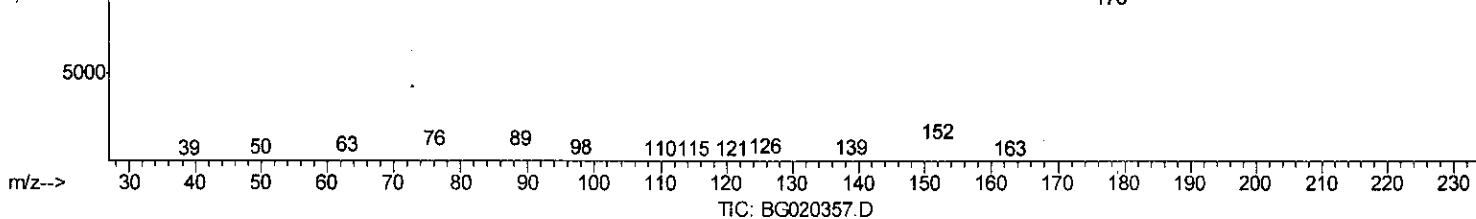
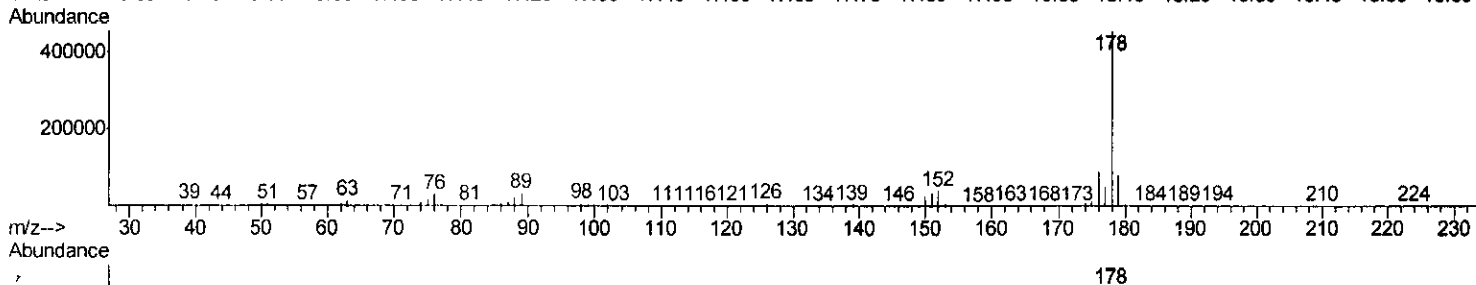
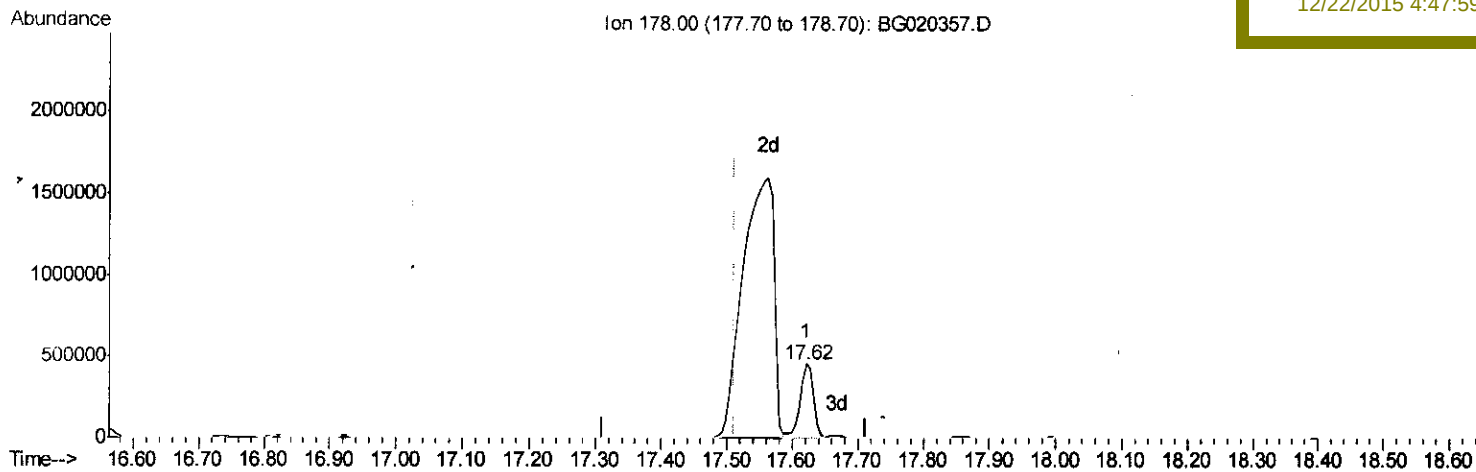
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 , 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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(70) Phenanthrene

17.621min (+0.109) 87.01ng/ul

response 654226

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	17.76
176.00	19.10	19.86
0.00	0.00	0.00

Quantitation Report (Qedit)

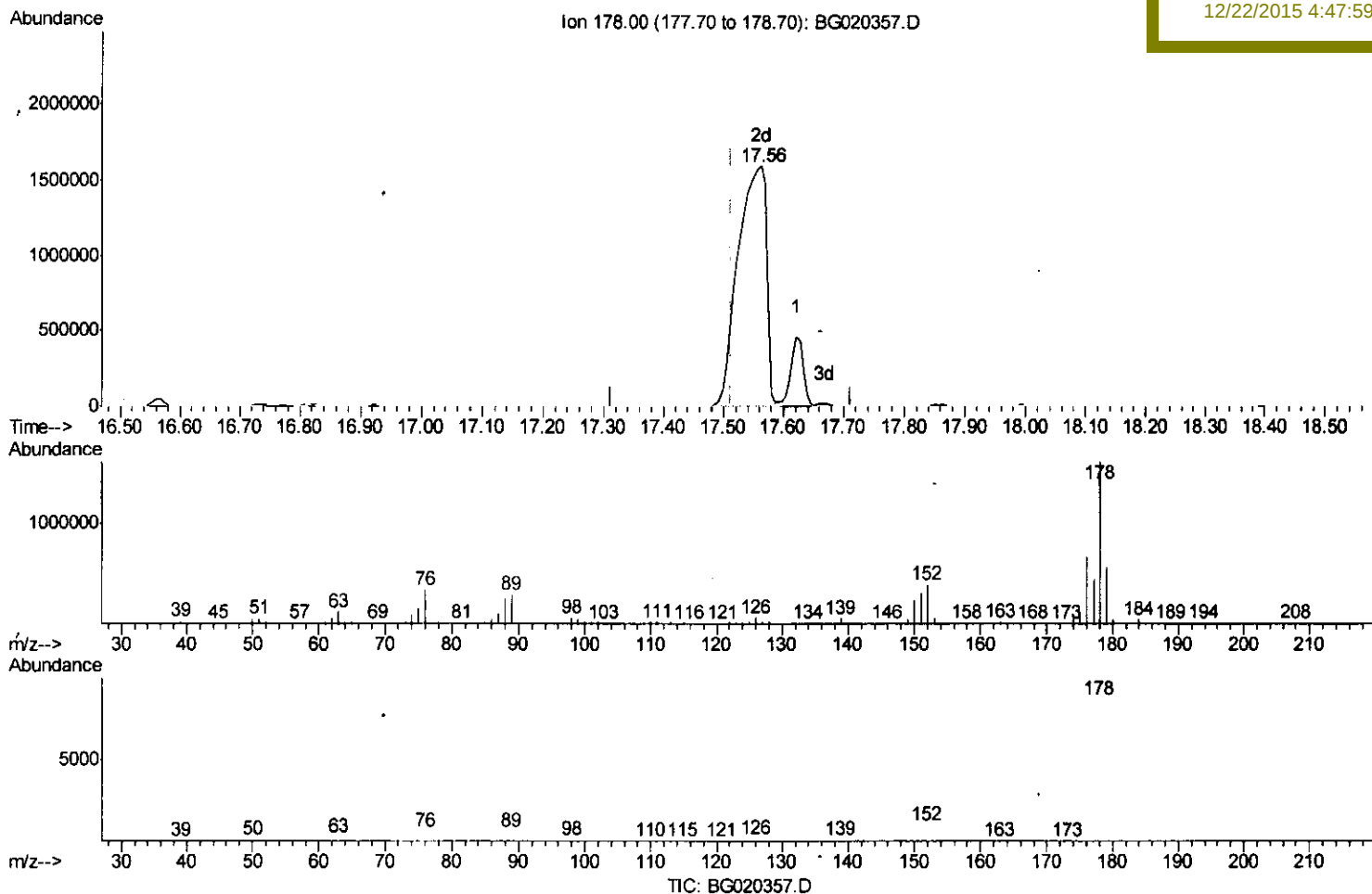
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 02:01:32 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration

Instrument :
BNA_G
Client SampleId :
D9N49

Manual Integrations
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(70) Phenanthrene

17.562min (+0.051) 700.47ng/ul m U.M

response 5267058

12/23/15

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	34.93#
176.00	19.10	42.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

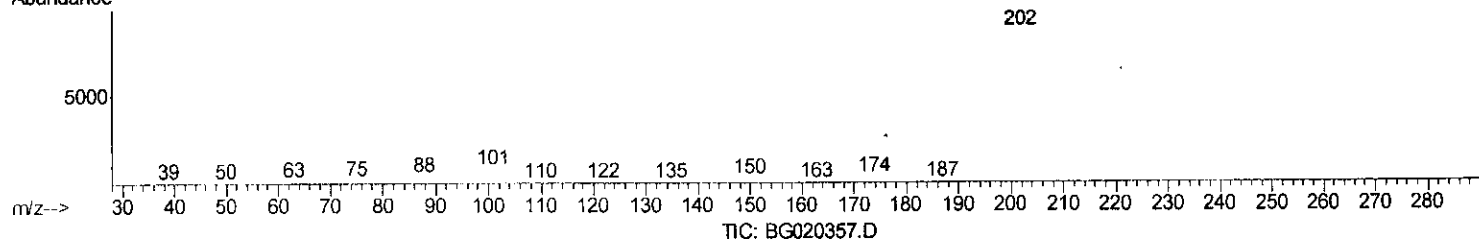
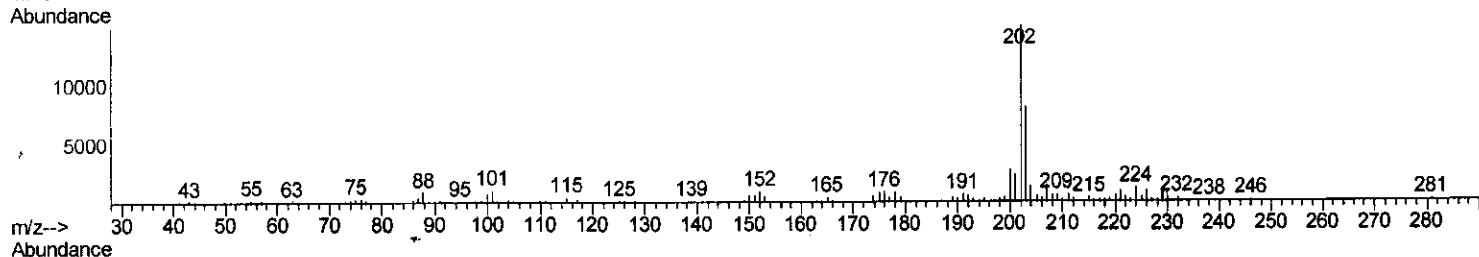
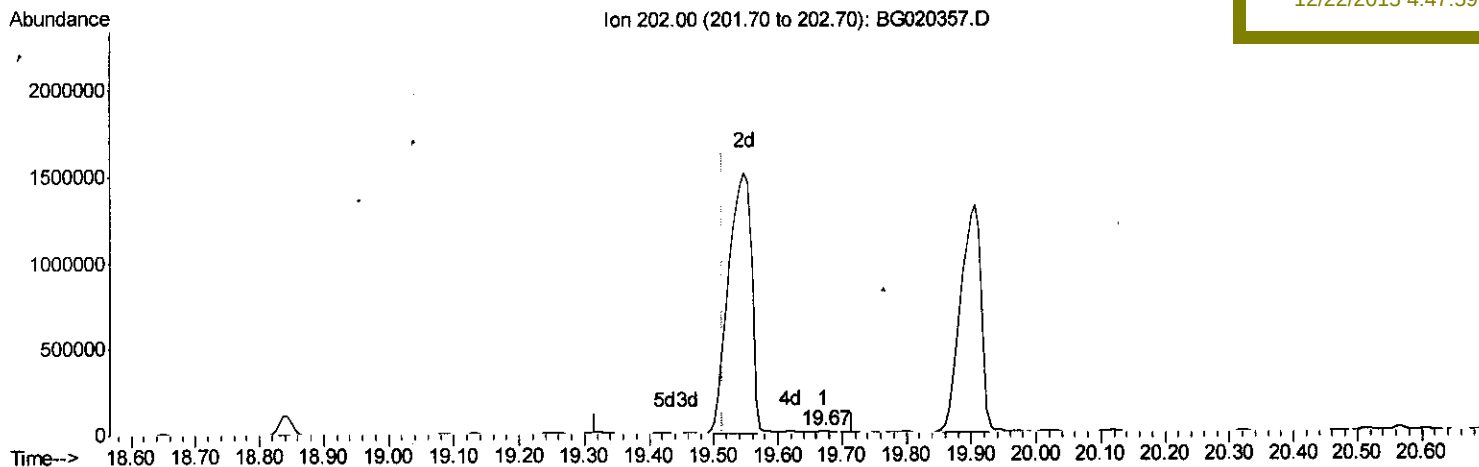
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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(77) Fluoranthene (C)

19.672min (+0.156) 1.77ng/ul

response 15555

Ion	Exp%	Act%
202.00	100	100
101.00	7.80	8.05
100.00	6.40	6.04
0.00	0.00	0.00

Quantitation Report (Qedit)

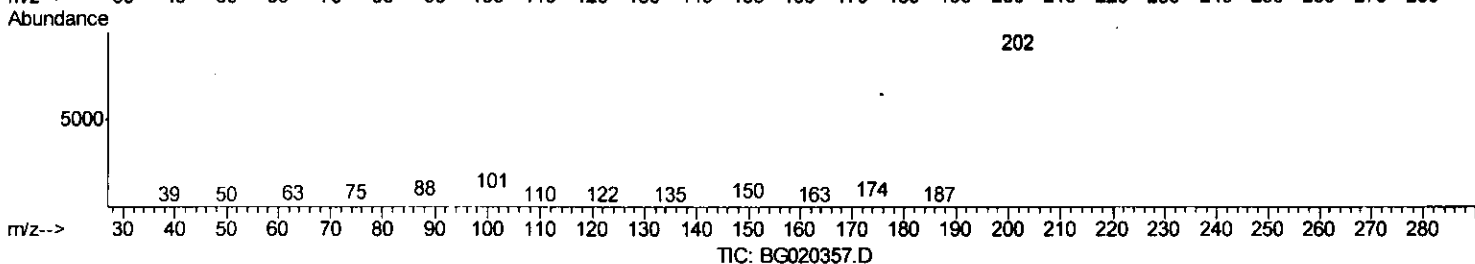
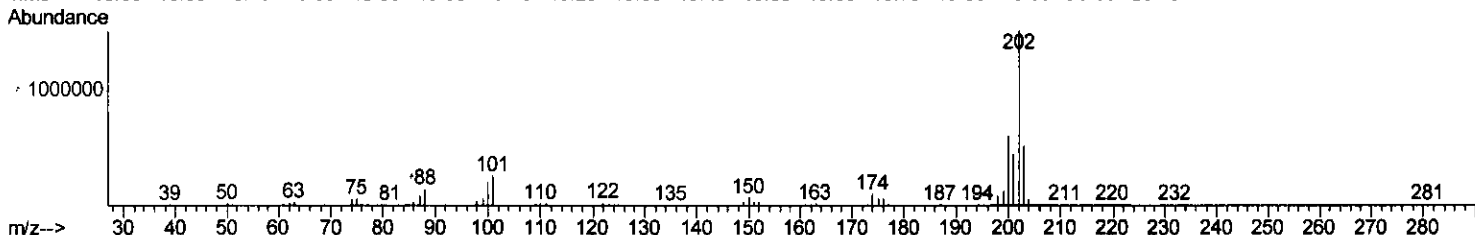
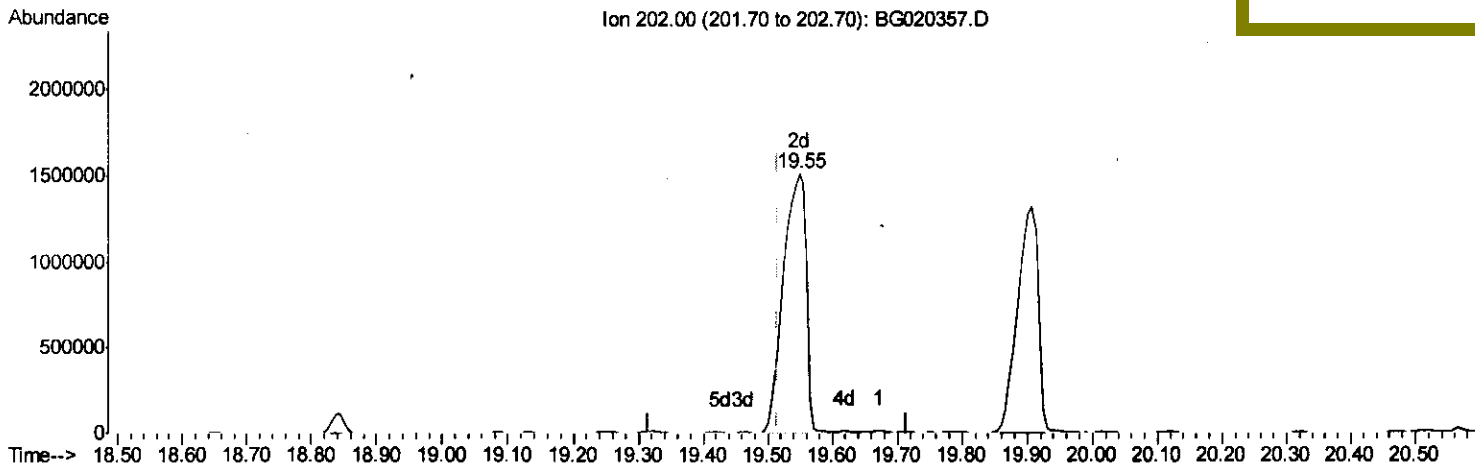
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 Qlast Update : Mon Dec 21 03:59:00 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

apatel
 12/22/2015 4:47:59 PM



(77) Fluoranthene (C)

19.548min (+0.033) 429.12ng/ul m *U.M*
12/23/15

response 3771015

Ion	Exp%	Act%
202.00	100	100
101.00	7.80	17.05#
100.00	6.40	13.73#
0.00	0.00	0.00

Quantitation Report (Qedit)

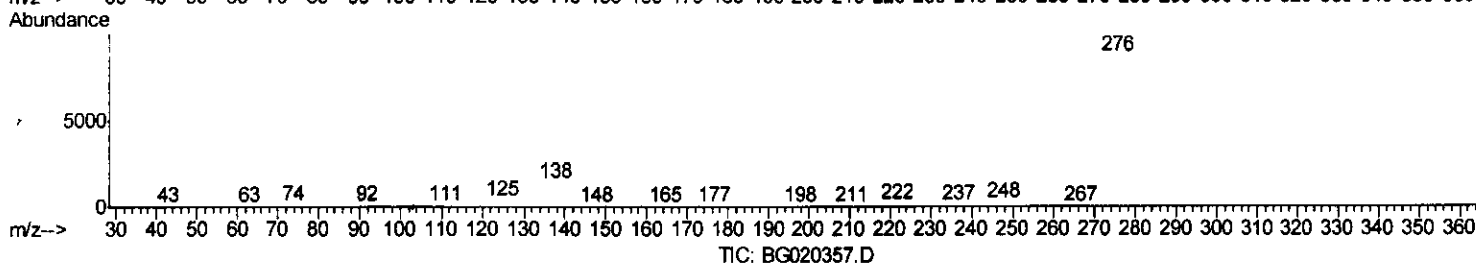
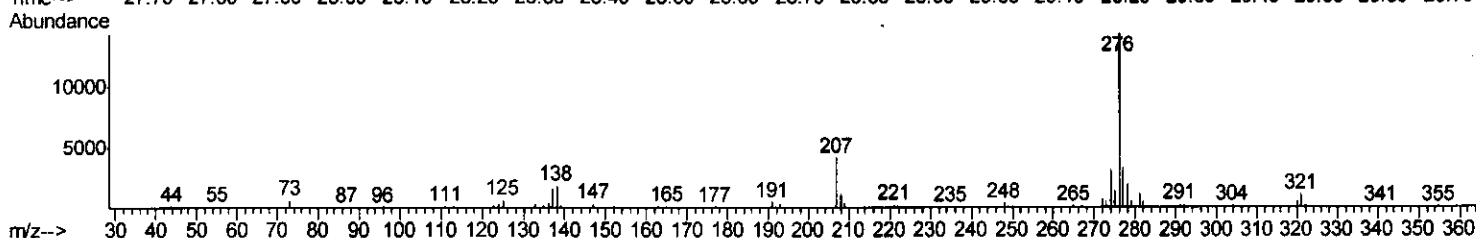
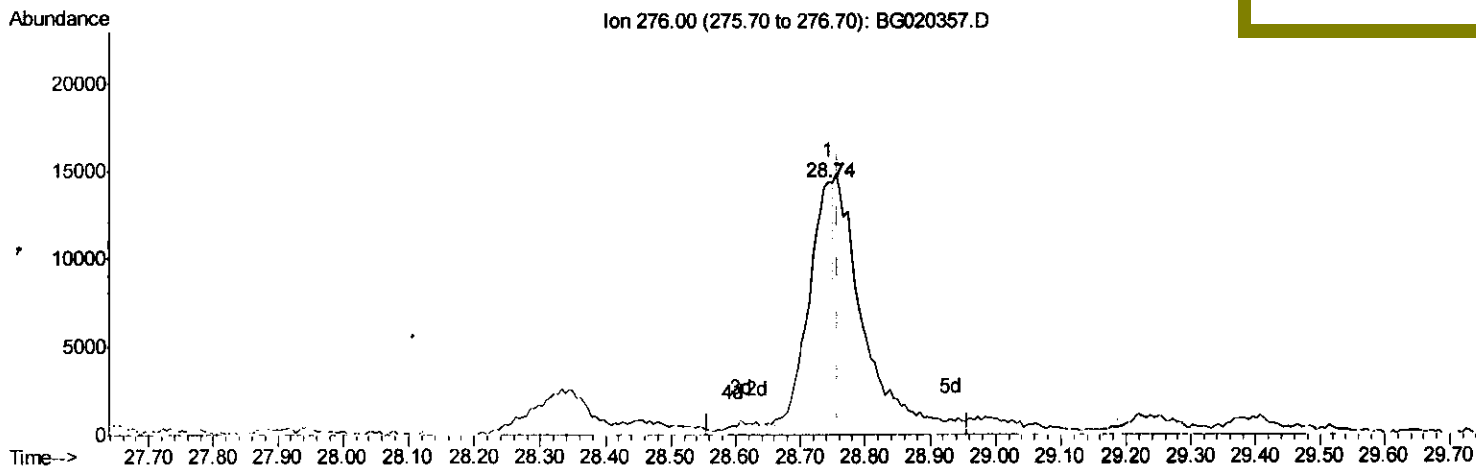
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
D9N49

Quant Time: Dec 21 02:01:32 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration

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

28.743min (-0.014) 3.14ng/ul

response 35505

Ion	Exp%	Act%
276.00	100	100
138.00	14.20	13.49
277.00	21.70	23.22
0.00	0.00	0.00

Quantitation Report (Qedit)

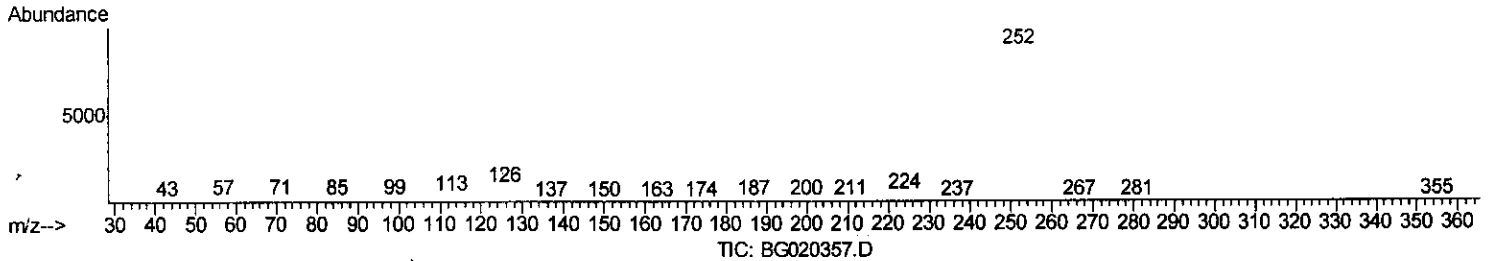
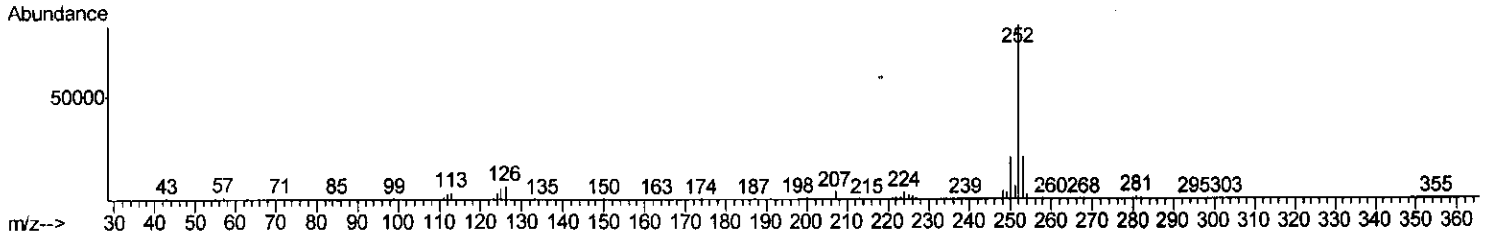
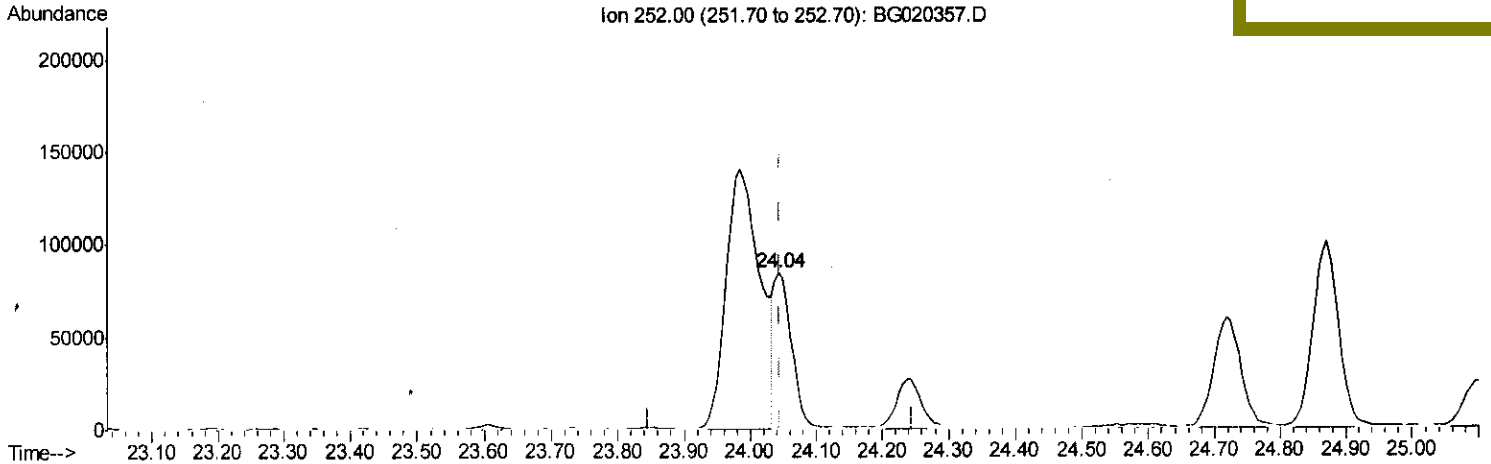
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : C4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 Client Sampled :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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(89) Benzo(k)fluoranthene

24.043min (-0.002) 16.42ng/ul m *UM*
12/23/15
 response 157944

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	23.89
125.00	7.20	6.21
0.00	0.00	0.00

Quantitation Report (Qedit)

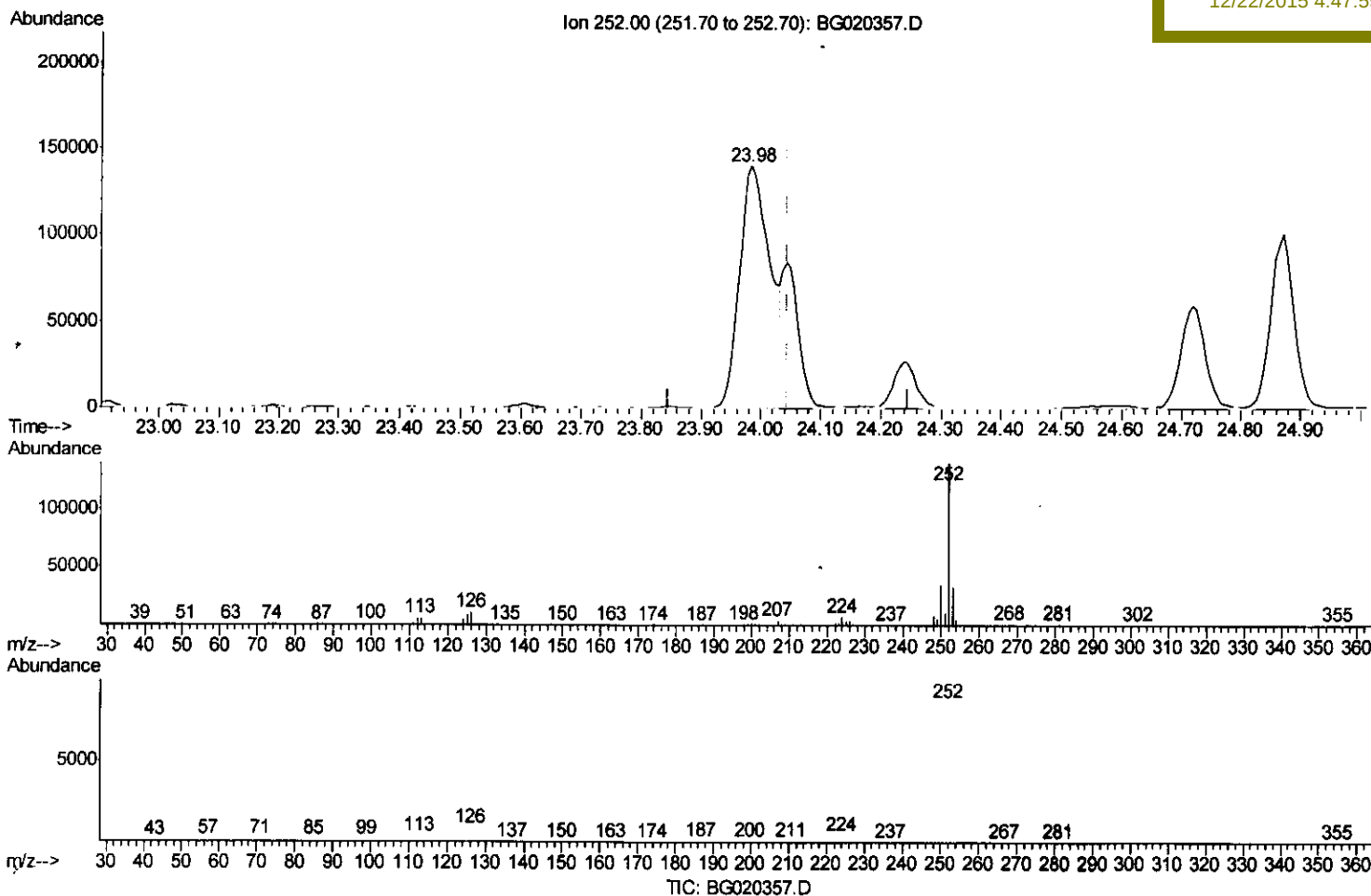
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
D9N49

Manual Integrations
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Quant Time: Dec 21 02:01:32 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration



(89) Benzo(k)fluoranthene

23.984min (-0.061) 51.84ng/ul

response 498550

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	23.61
125.00	7.20	6.51
0.00	0.00	0.00

Quantitation Report (Qedit)

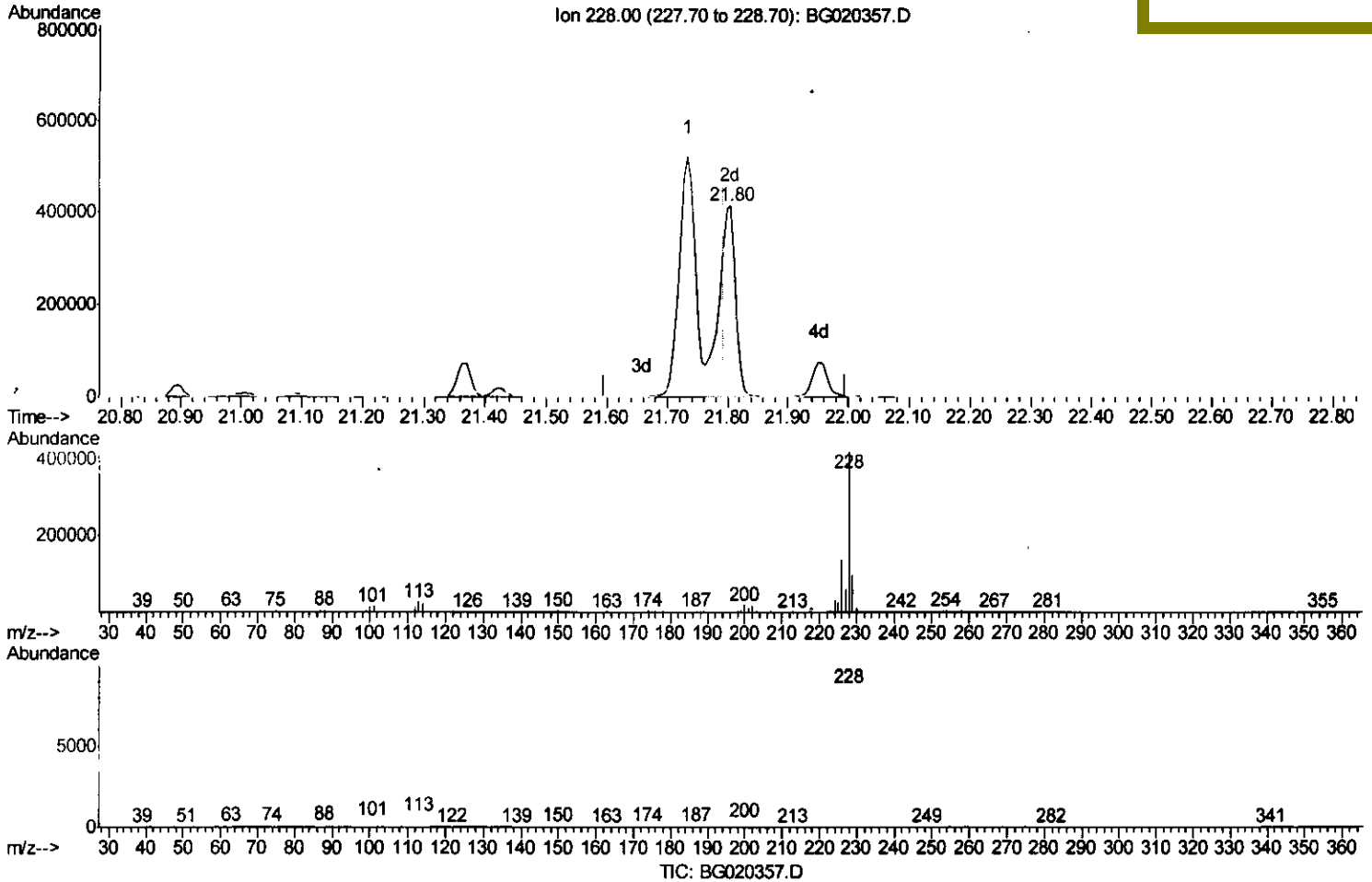
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 02:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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(85) Chrysene

21.804min (+0.010) 80.44ng/ul m

response 784342

Ion	Exp%	Act%
228.00	100	100
226.00	29.90	32.59
229.00	19.50	23.56#
0.00	0.00	0.00

U.M
 12/23/15

Quantitation Report (Qedit)

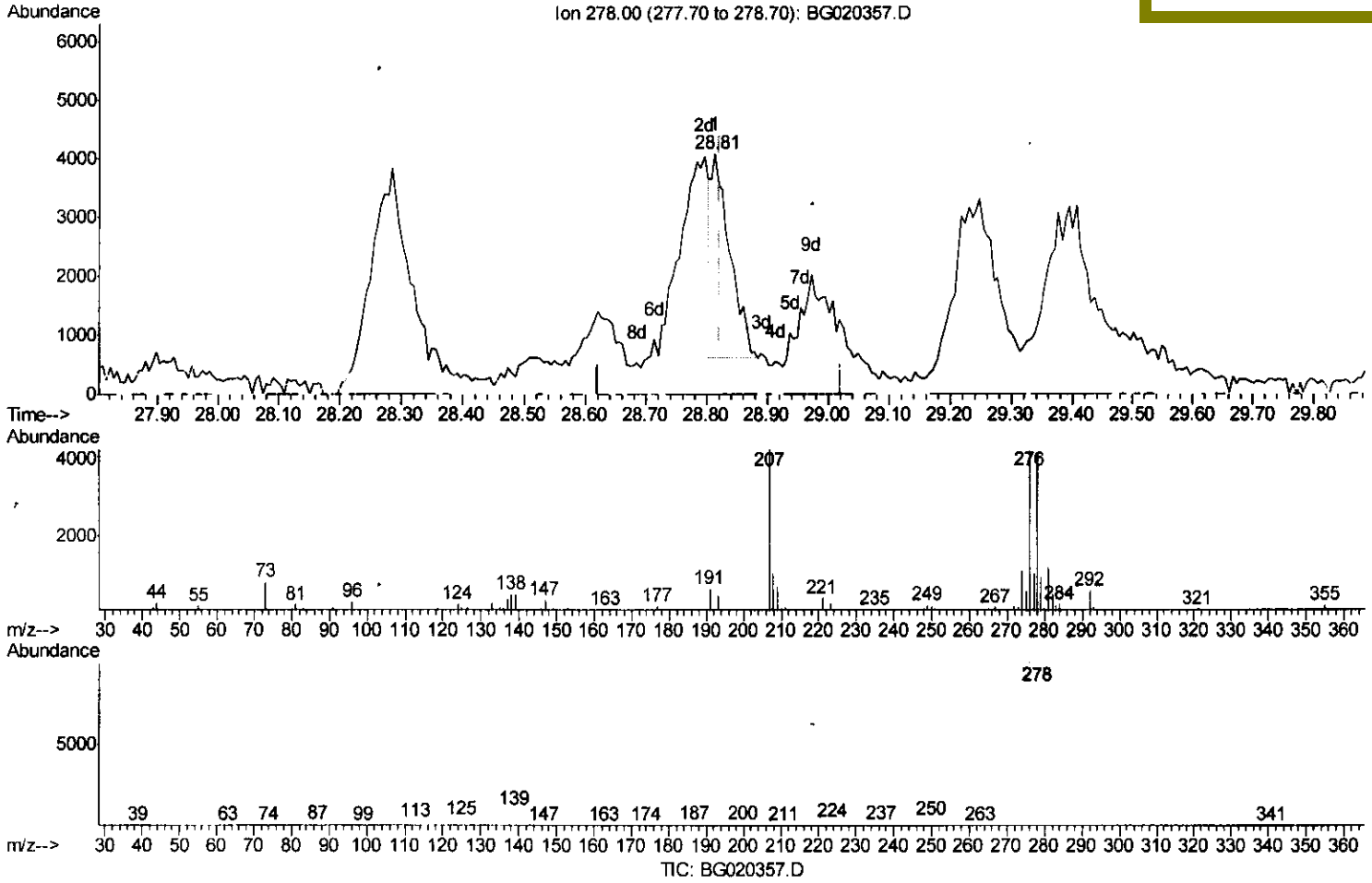
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 03:19:31 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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(93) Dibenzo(a,h)anthracene

28.814min (-0.008) 0.80ng/ul

response 7481

Ion	Exp%	Act%
278.00	100	100
139.00	11.80	13.04
279.00	24.20	23.57
0.00	0.00	0.00

Quantitation Report (Qedit)

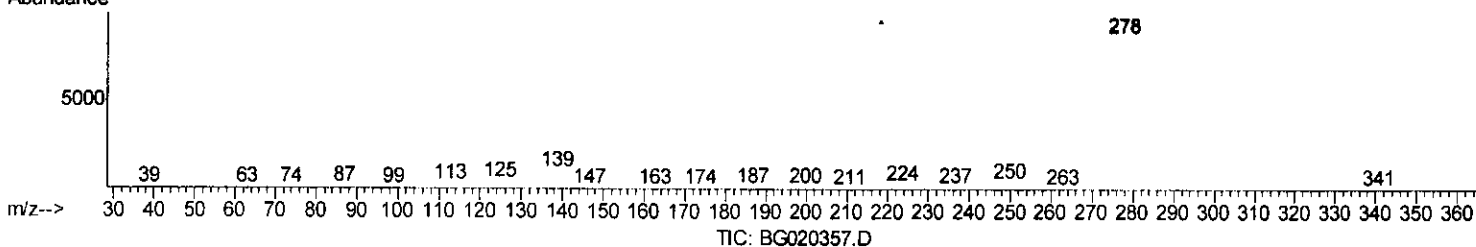
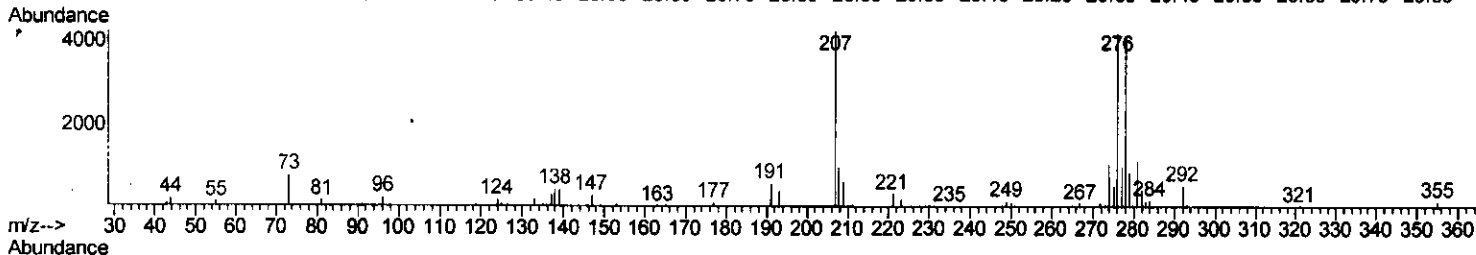
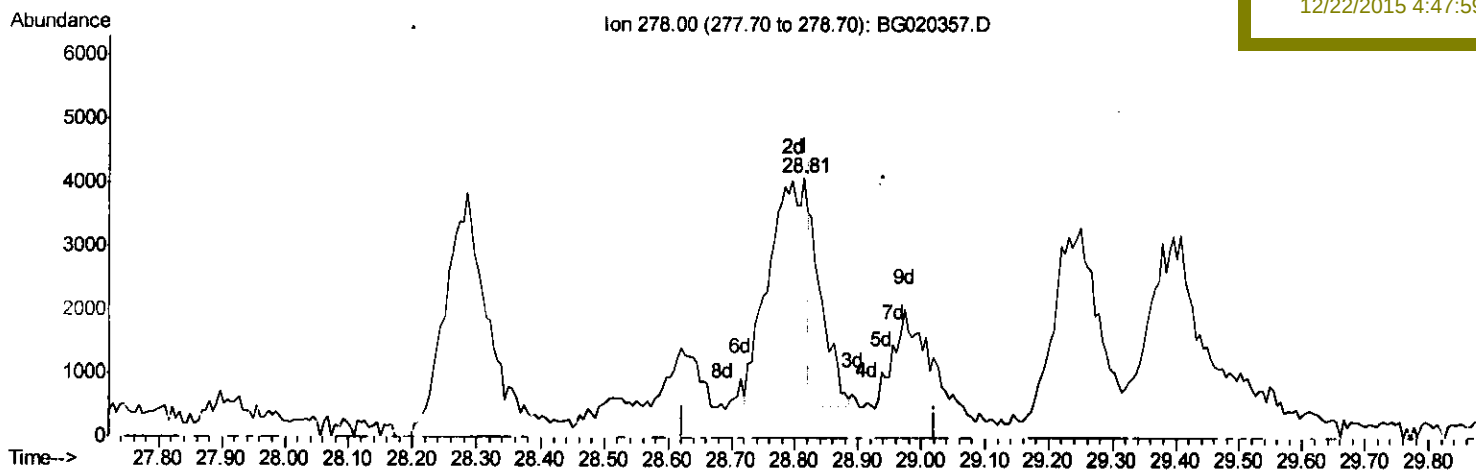
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Manual Integrations
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Quant Time: Dec 21 03:19:31 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration



(93) Dibenzo(a,h)anthracene

28.814min (-0.008) 2.08ng/ul m U.M
 response 19489 12/23/15

Ion	Exp%	Act%
278.00	100	100
139.00	11.80	13.04
279.00	24.20	23.57
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
 Data File : BG020357.D
 Acq On : 21 Dec 2015 00:35
 Operator : UM/SJ
 Sample : G4848-03
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N49

Quant Time: Dec 21 03:23:59 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 21 01:58:00 2015
 Response via : Initial Calibration

Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	21633	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	92229	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	64329	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.49	188	137468	20.00	ng/ul	0.02
78) Chrysene-d12	21.75	240	177439	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	166505	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	1448	3.70	ng/uL	0.00
5) Phenol-d5	7.26	99	38556	20.21	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	25286	22.22	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	31330	22.58	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	34151	20.93	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	17612	24.50	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	20159	25.20	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.54	165	35677	22.02	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	37598	20.65	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	126090	24.23	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	140897	23.27	ng/ul	0.00
52) 4-Nitrophenol-d4	14.94	143	16173	17.33	ng/ul	0.00
58) Fluorene-d10	15.72	176	110517	23.42	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.86	200	12263	15.05	ng/ul	0.02
71) Anthracene-d10	17.59	188	164850	26.03	ng/ul	0.02
79) Pyrene-d10	19.86	212	201407	24.35	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	224103	26.98	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	10.99	128	3272652	679.49	ng/ul#	81
34) 2-Methylnaphthalene	12.57	142	1154353	313.77	ng/ul	99
35) 1-Methylnaphthalene	12.79	142	571116	161.48	ng/ul	96
41) 1,1'-Biphenyl	13.56	154	496867	102.38	ng/ul	97
45) Dimethylphthalate	14.18	163	53265	10.02	ng/ul	99
48) Acenaphthylene	14.45	152	155662	24.20	ng/ul#	95
50) Acenaphthene	14.81	153	1900317	439.14	ng/ul#	92
54) Dibenzofuran	15.14	168	1910254	296.74	ng/ul#	87
59) Fluorene	15.79	166	1839484	355.84	ng/ul#	98
70) Phenanthrene	17.56	178	5267058m	700.47	ng/ul	
72) Anthracene	17.62	178	659594	86.49	ng/ul	95
75) Carbazole	17.88	167	479374	74.81	ng/ul	99
77) Fluoranthene	19.55	202	3771015m	429.12	ng/ul	
80) Pyrene	19.91	202	2918164	271.73	ng/ul#	84
83) Benzo(a)anthracene	21.73	228	983000	94.94	ng/ul	95
85) Chrysene	21.80	228	784342m	80.44	ng/ul	
88) Benzo(b)fluoranthene	23.98	252	498550	49.75	ng/ul	95
89) Benzo(k)fluoranthene	24.04	252	157944m	16.42	ng/ul	
91) Benzo(a)pyrene	24.87	252	267760	28.19	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.76	276	76423m	6.76	ng/ul	
93) Dibenzo(a,h)anthracene	28.81	278	19489m	2.08	ng/ul	
94) Benzo(a,h,i)perylene	29.92	276	54378m	5.86	ng/ul	

U.M
 12/23/15

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122015\
Data File : BG020357.D
Acq On : 21 Dec 2015 00:35
Operator : UM/SJ
Sample : G4848-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 03:23:59 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
Qlast Update : Mon Dec 21 01:58:00 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
D9N49

Manual Integrations
APPROVED

apatel
12/22/2015 4:47:59 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed