

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121815\
 Data File : BG020252.D
 Acq On : 17 Dec 2015 19:12
 Operator : UM/SJ
 Sample : G4787-17DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9BN9DL

Manual Integrations
 APPROVED

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 12/18/2015 6:20:16 PM

Quant Time: Dec 18 03:30:55 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 18 02:40:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	18727	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	78207	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	54969	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	130641	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	167590	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	165492	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.25	99	2660	1.61	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	2457	2.49	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	2270	1.89	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	2260	1.60	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	1976m	3.24	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	1214	1.79	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	2633	1.92	ng/ul	0.00
29) 4-Chloroaniline-d4	11.02	131	5940m	3.85	ng/ul	-0.02
44) Dimethylphthalate-d6	14.13	166	10484	2.36	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	12278	2.37	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	1759m	2.21	ng/ul	0.01
58) Fluorene-d10	15.71	176	9738	2.41	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0d	0.00	ng/ul	
71) Anthracene-d10	17.57	188	14875m	2.47	ng/ul	0.00
79) Pyrene-d10	19.85	212	17740	2.27	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	19737	2.39	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	10.98	128	1727048	422.87	ng/ul#	92
34) 2-Methylnaphthalene	12.57	142	858710	275.26	ng/ul	98
35) 1-Methylnaphthalene	12.79	142	488737	162.96	ng/ul	96
41) 1,1'-Biphenyl	13.56	154	79382	19.14	ng/ul	96
45) Dimethylphthalate	14.17	163	6969	1.53	ng/ul#	94
48) Acenaphthylene	14.45	152	27261	4.96	ng/ul#	72
50) Acenaphthene	14.80	153	295930	80.03	ng/ul	98
54) Dibenzofuran	15.12	168	39892	7.25	ng/ul	92
59) Fluorene	15.77	166	178060	40.31	ng/ul	99
70) Phenanthrene	17.52	178	845260	118.29	ng/ul	98
72) Anthracene	17.61	178	220698	30.45	ng/ul	98
75) Carbazole	17.88	167	9238	1.52	ng/ul#	70
77) Fluoranthene	19.52	202	326072	39.04	ng/ul	98
80) Pyrene	19.89	202	497256	49.02	ng/ul	99
83) Benzo(a)anthracene	21.73	228	195170m	19.96	ng/ul	
85) Chrysene	21.79	228	160991	17.48	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	100279	10.07	ng/ul	94
89) Benzo(k)fluoranthene	24.03	252	35167m	3.68	ng/ul	
91) Benzo(a)pyrene	24.86	252	109701	11.62	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.75	276	43571	3.87	ng/ul#	91
93) Dibenzo(a,h)anthracene	28.80	278	17108m	1.83	ng/ul	
94) Benzo(a,h,i)perylene	29.90	276	39690m	4.31	ng/ul	

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

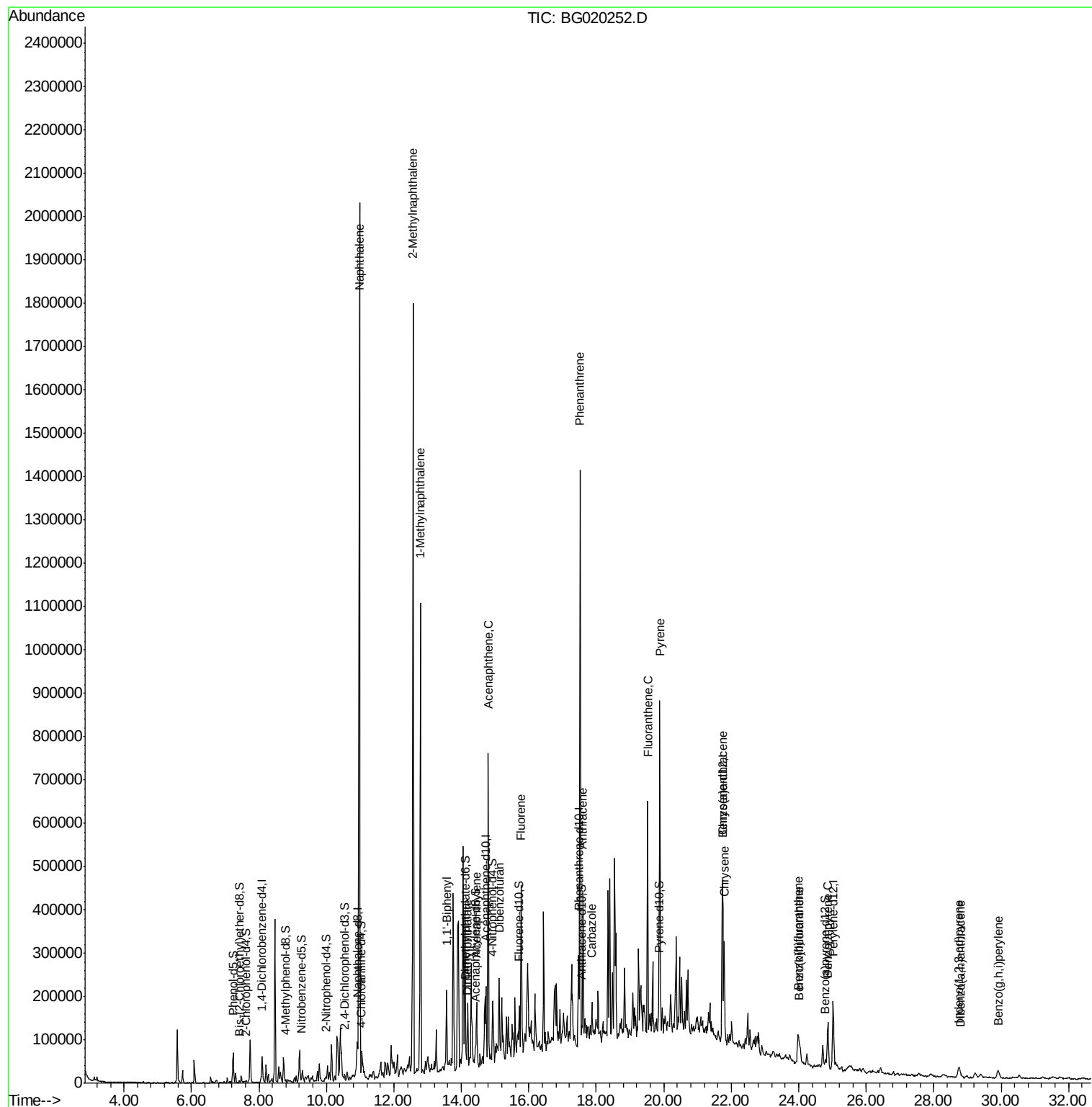
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121815\
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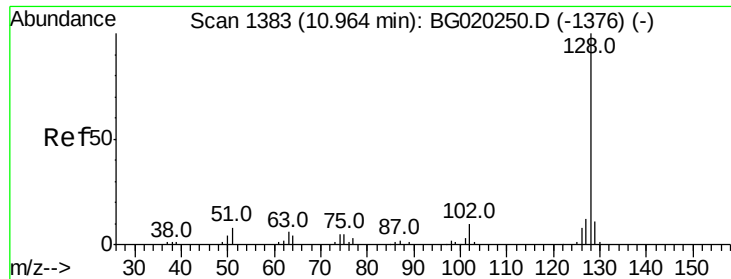
Instrument :
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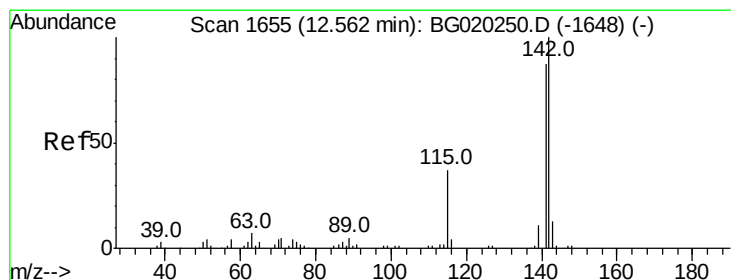
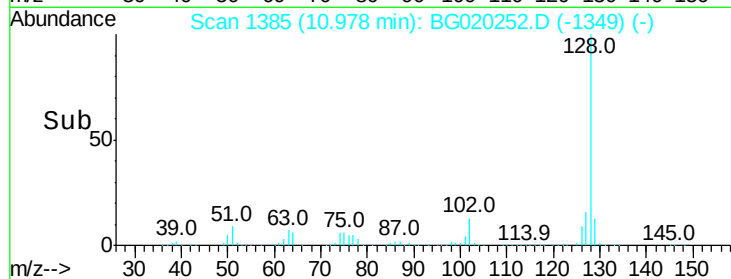
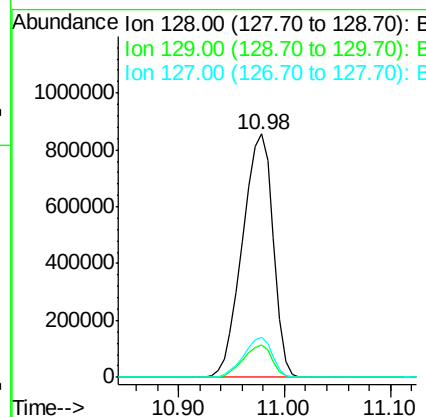
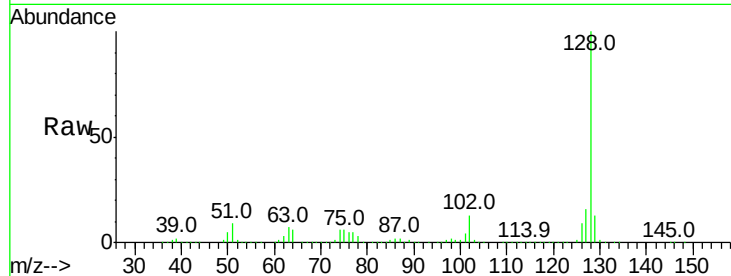
#28
Naphthalene
Concen: 422.87 ng/ul
RT: 10.98 min Scan# 1385
Delta R.T. 0.01 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Instrument :
BNA_G
ClientSampleId :
G9BN9DL

Tot Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.6	12.8#
127	16.5	10.1	15.1#

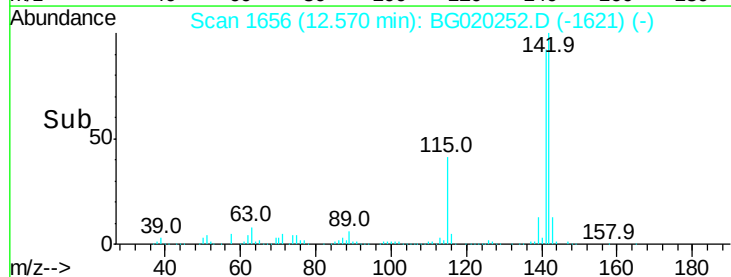
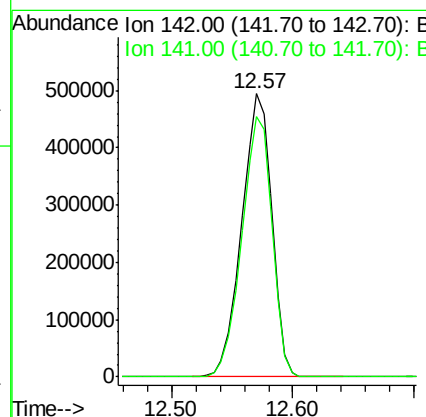
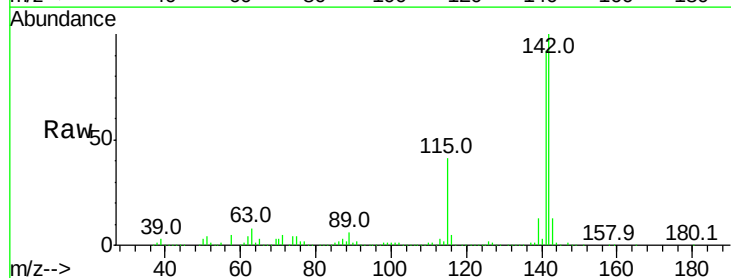
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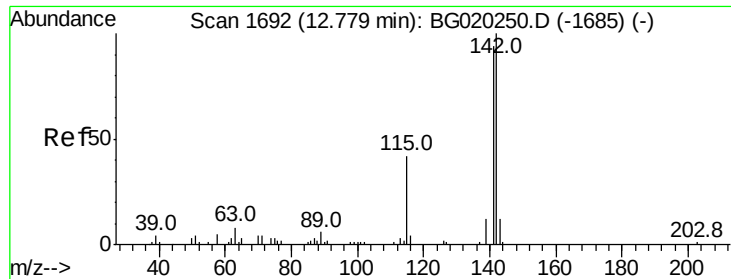
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#34
2-Methylnaphthalene
Concen: 275.26 ng/ul
RT: 12.57 min Scan# 1656
Delta R.T. 0.01 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	74.9	112.3





#35

1-Methylnaphthalene

Concen: 162.96 ng/ul

RT: 12.79 min Scan# 1693

Delta R.T. 0.01 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

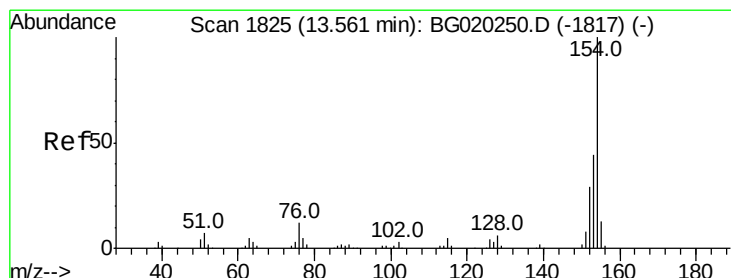
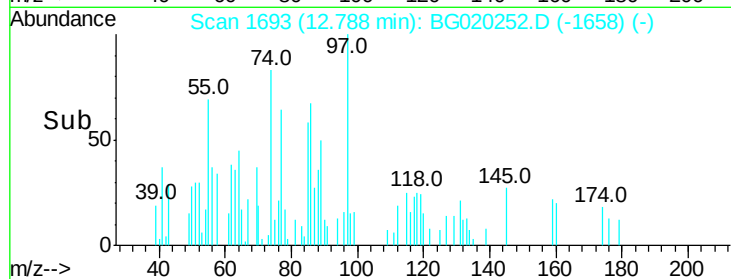
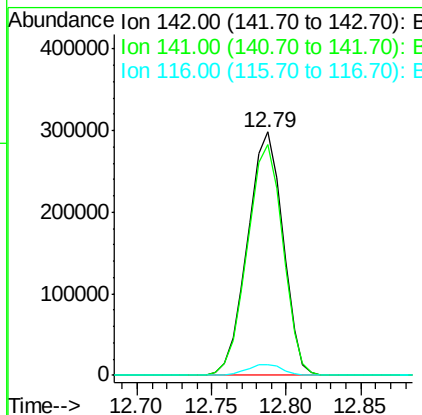
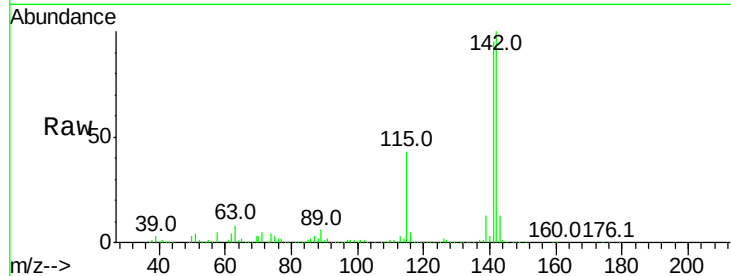
ClientSampleId :

G9BN9DL

Tot Ion:	142	Resp:	488737
Ion Ratio	Lower	Upper	
142	100		
141	95.0	73.0	109.6
116	4.6	3.0	4.6

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#41

1,1'-Biphenyl

Concen: 19.14 ng/ul

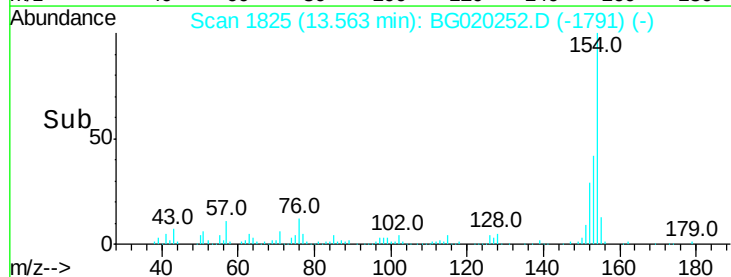
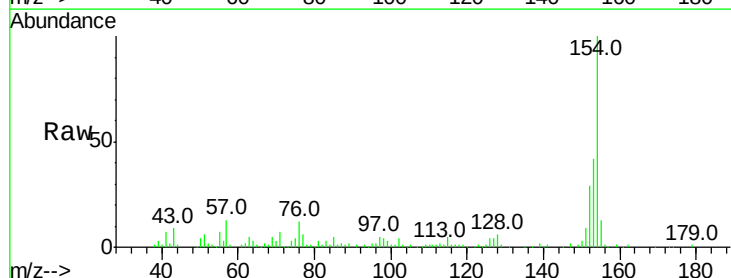
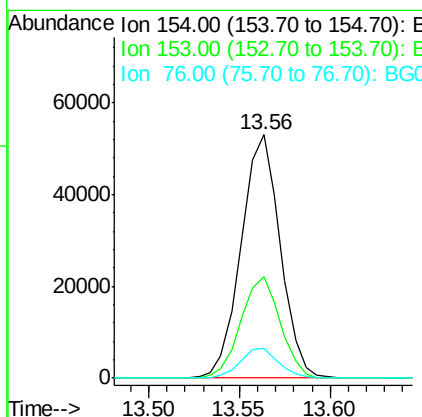
RT: 13.56 min Scan# 1825

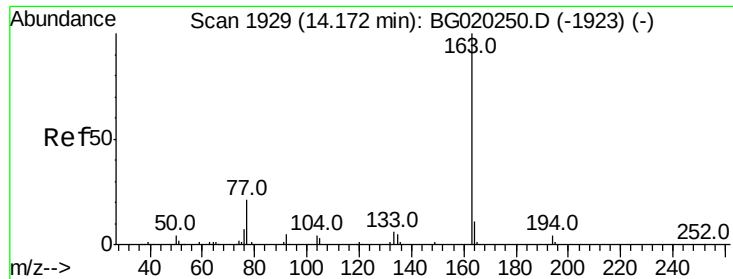
Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Tgt Ion:	154	Resp:	79382
Ion Ratio	Lower	Upper	
154	100		
153	41.7	35.5	53.3
76	12.4	10.4	15.6





#45

Dimethylphthalate

Concen: 1.53 ng/ul

RT: 14.17 min Scan# 1928

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

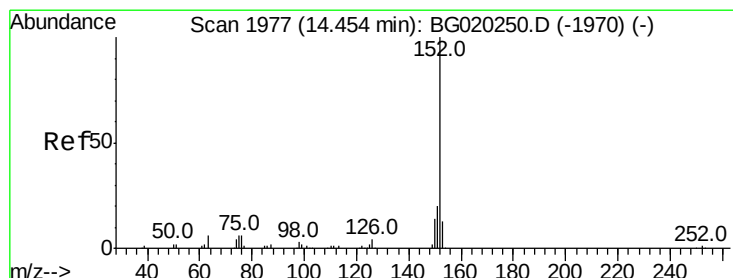
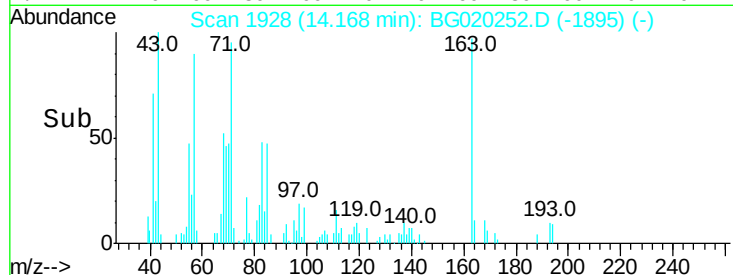
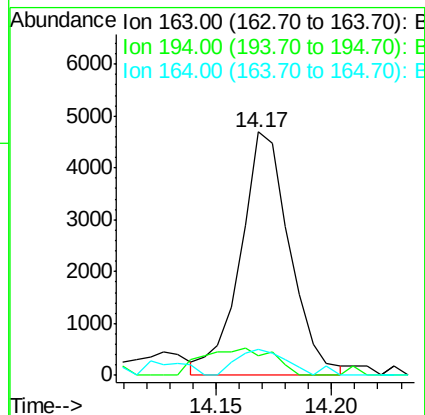
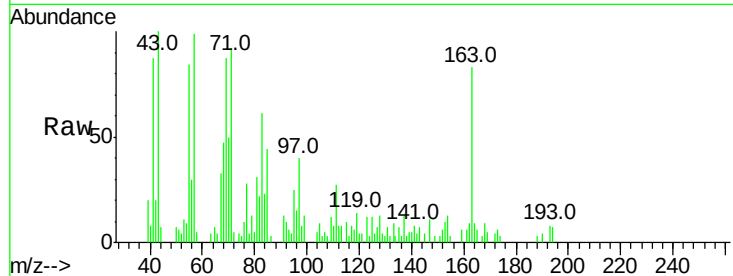
ClientSampleId :

G9BN9DL

Tot Ion:	163	Resp:	6969
Ion	Ratio	Lower	Upper
163	100		
194	8.1	3.5	5.3#
164	10.8	7.7	11.5

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#48

Acenaphthylene

Concen: 4.96 ng/ul

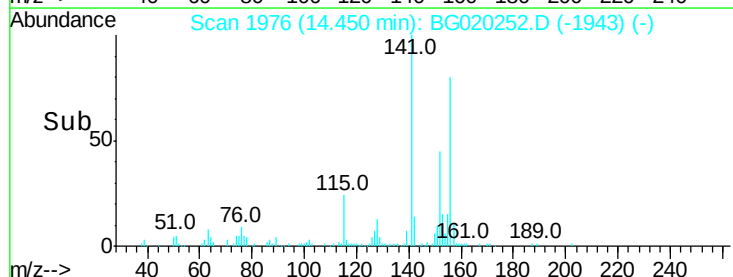
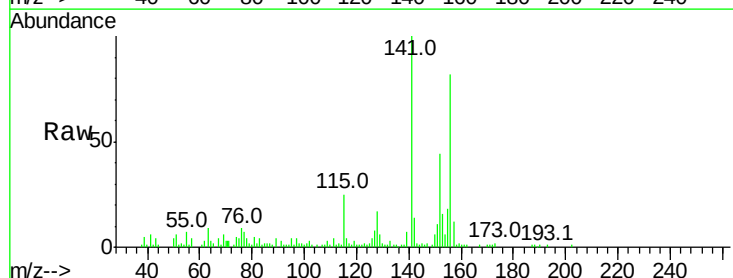
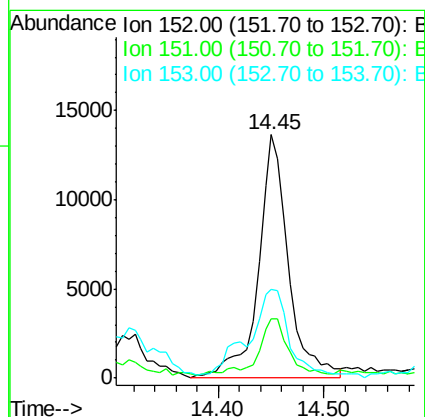
RT: 14.45 min Scan# 1976

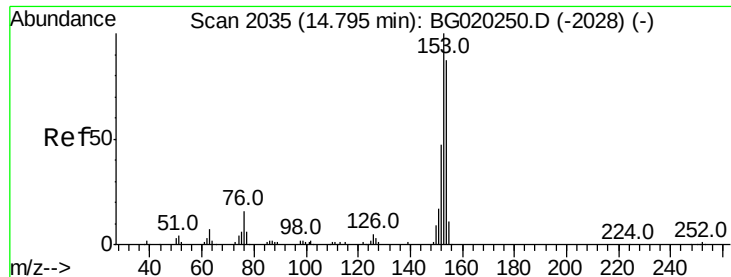
Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Tgt Ion:	152	Resp:	27261
Ion	Ratio	Lower	Upper
152	100		
151	24.3	16.4	24.6
153	36.6	10.4	15.6#





#50

Acenaphthene

Concen: 80.03 ng/ul

RT: 14.80 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

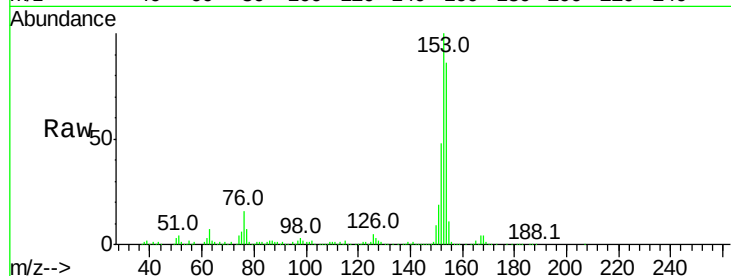
ClientSampleId :

G9BN9DL

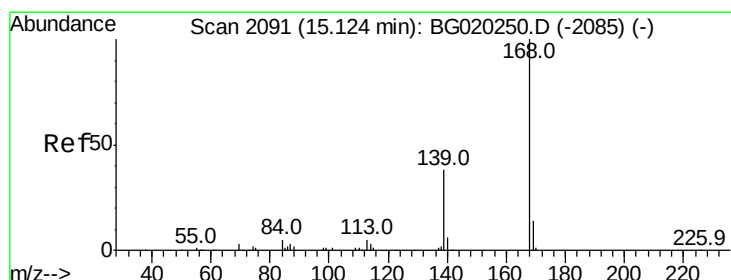
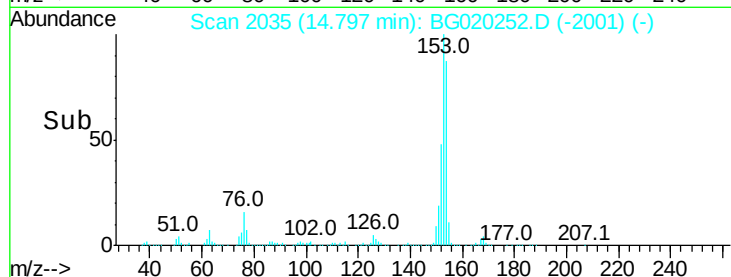
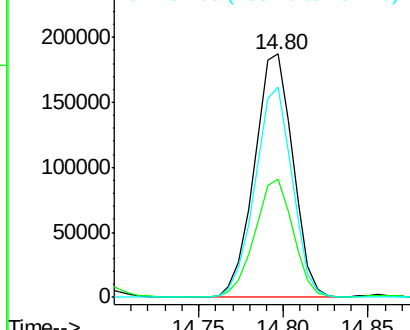
Tot Ion:	153	Resp:	295930
Ion Ratio	Lower	Upper	
153	100		
152	48.5	37.6	56.4
154	86.1	67.9	101.9

Manual Integrations
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Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 7.25 ng/ul

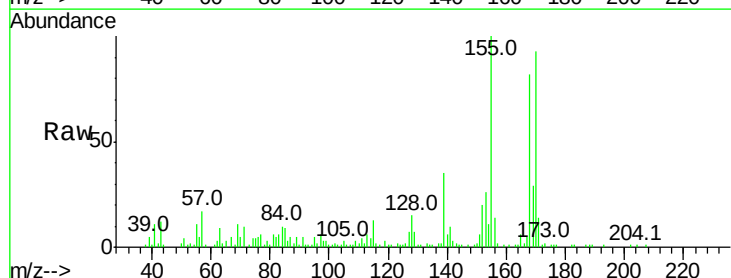
RT: 15.12 min Scan# 2090

Delta R.T. -0.00 min

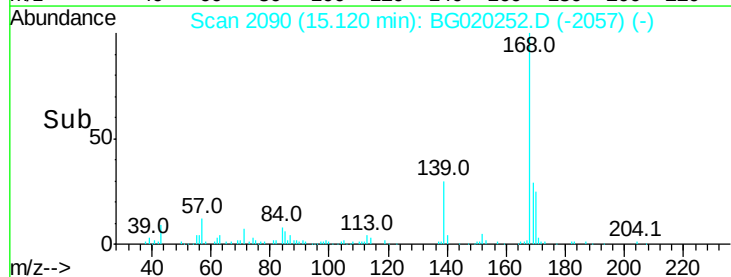
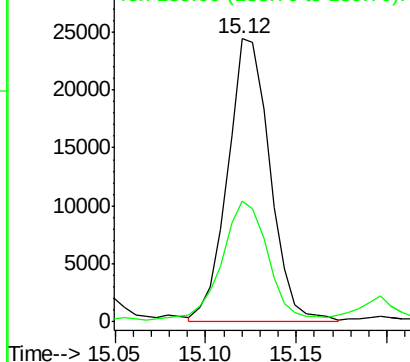
Lab File: BG020252.D

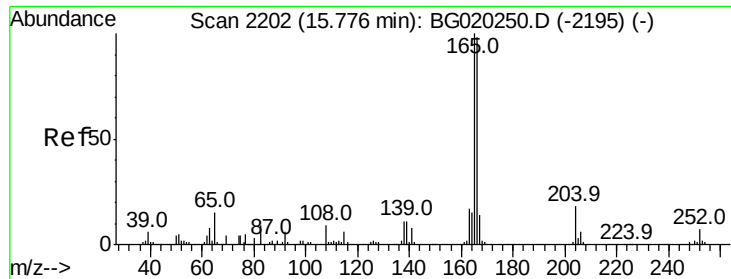
Acq: 17 Dec 2015 19:12

Tgt Ion:	168	Resp:	39892
Ion Ratio	Lower	Upper	
168	100		
139	42.9	30.5	45.7



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





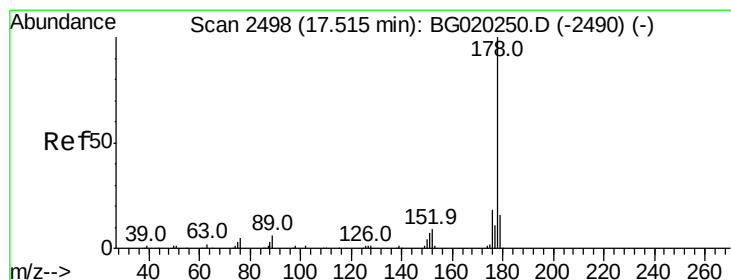
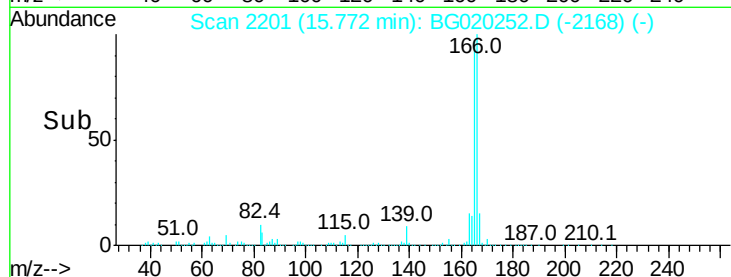
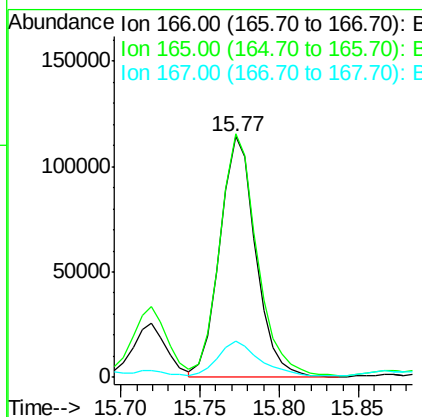
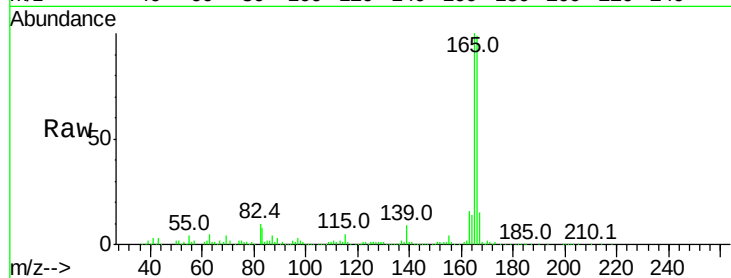
#59
 Fluorene
 Concen: 40.31 ng/ul
 RT: 15.77 min Scan# 2201
 Delta R.T. -0.00 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

Instrument :
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 G9BN9DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	178060		
165	101.1		81.4	122.0
167	15.2		11.2	16.8

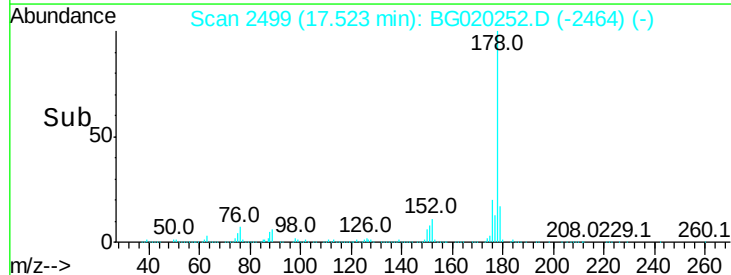
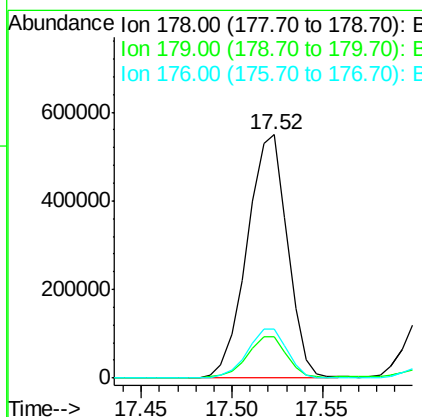
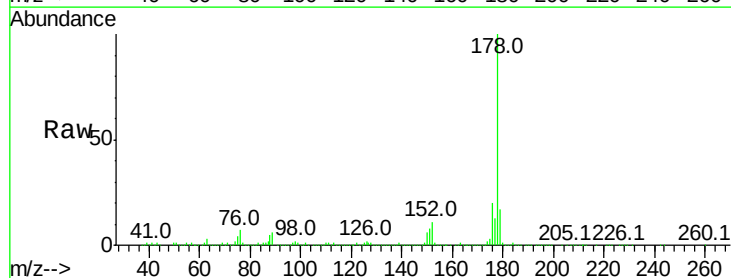
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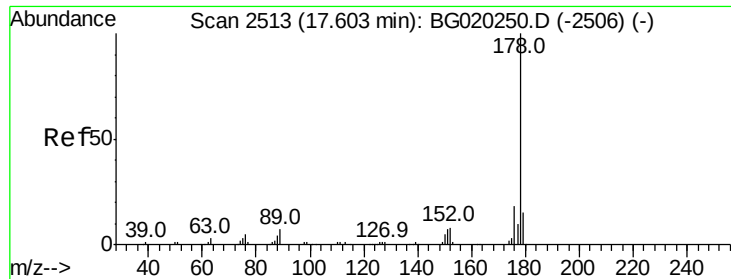
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#70
 Phenanthrene
 Concen: 118.29 ng/ul
 RT: 17.52 min Scan# 2499
 Delta R.T. 0.01 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	845260		
179	17.0		12.9	19.3
176	20.2		15.3	22.9





#72

Anthracene

Concen: 30.45 ng/ul

RT: 17.61 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

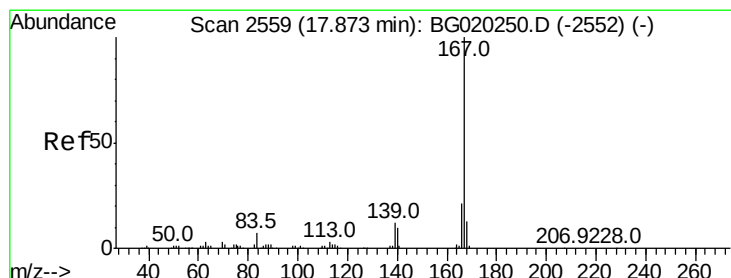
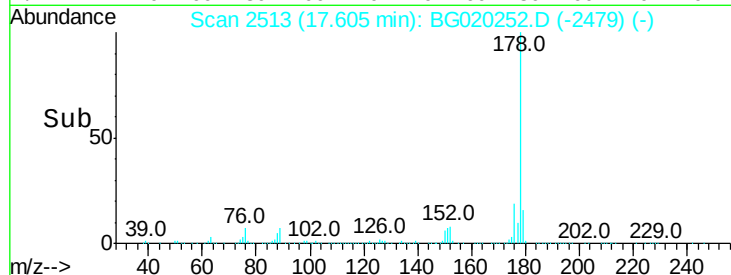
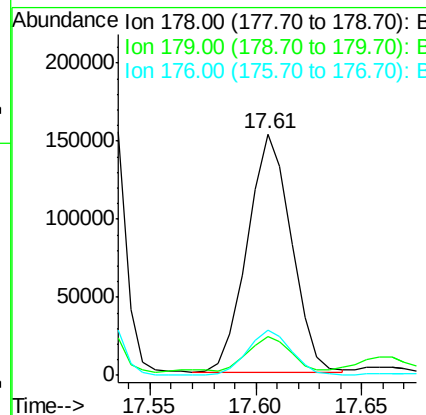
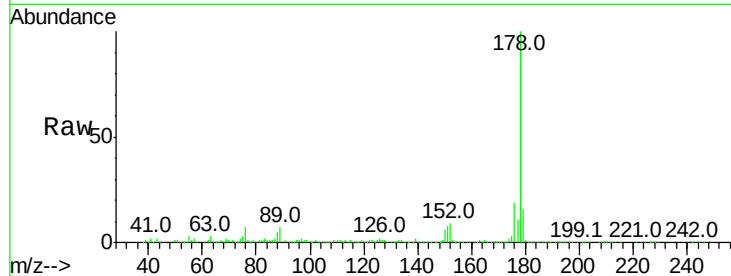
ClientSampleId :

G9BN9DL

Tot Ion:	178	Resp:	220698
Ion Ratio	Lower	Upper	
178	100		
179	16.0	12.3	18.5
176	18.8	14.3	21.5

Manual Integrations
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#75

Carbazole

Concen: 1.52 ng/ul

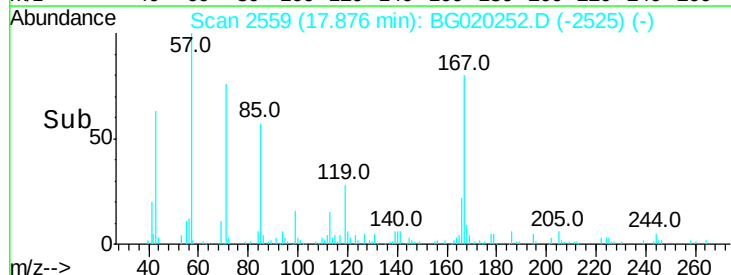
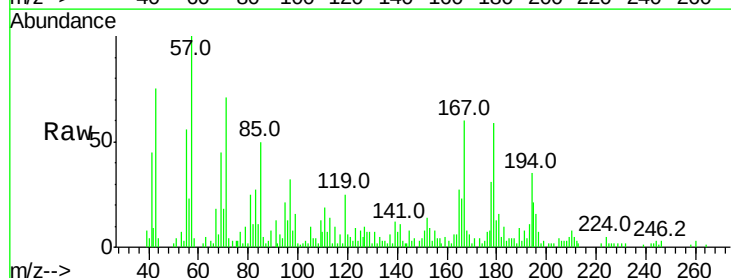
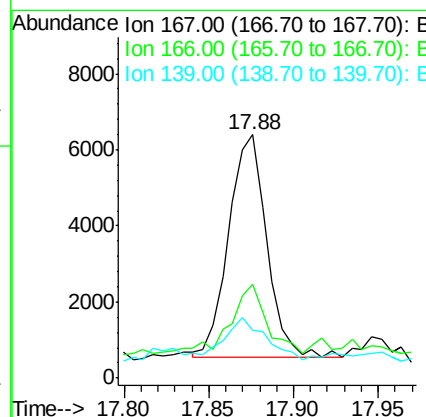
RT: 17.88 min Scan# 2559

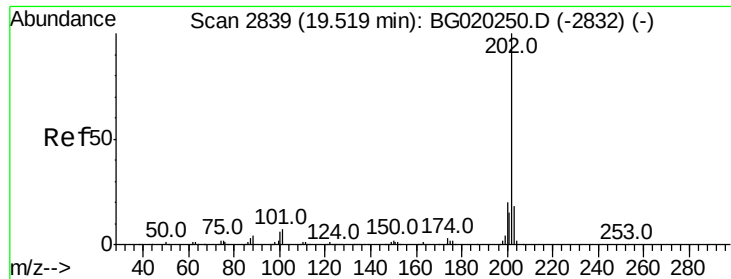
Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Tgt Ion:	167	Resp:	9238
Ion Ratio	Lower	Upper	
167	100		
166	38.6	17.0	25.6#
139	19.4	10.1	15.1#





#77

Fluoranthene

Concen: 39.04 ng/ul

RT: 19.52 min Scan# 2839

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

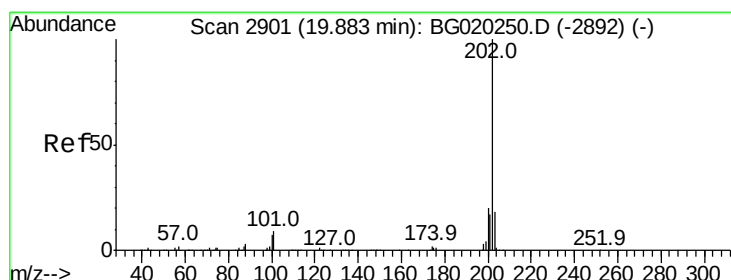
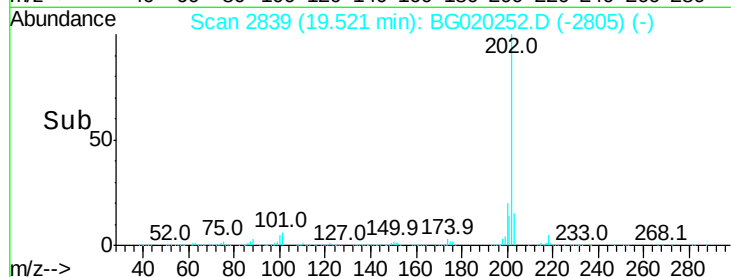
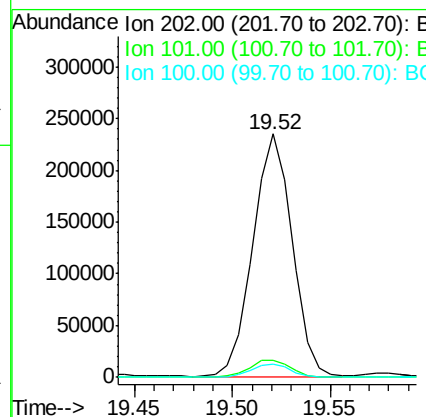
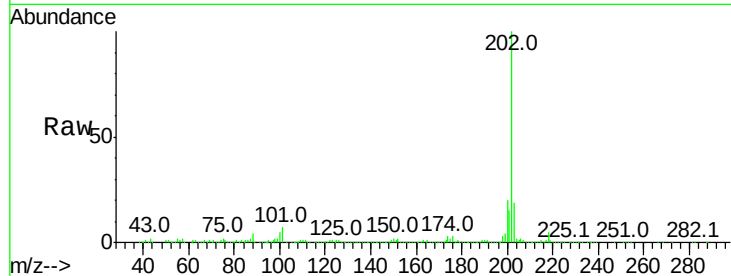
ClientSampleId :

G9BN9DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		326072		
101	7.3	6.2	9.4		
100	5.4	5.1	7.7		

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#80

Pyrene

Concen: 49.02 ng/ul

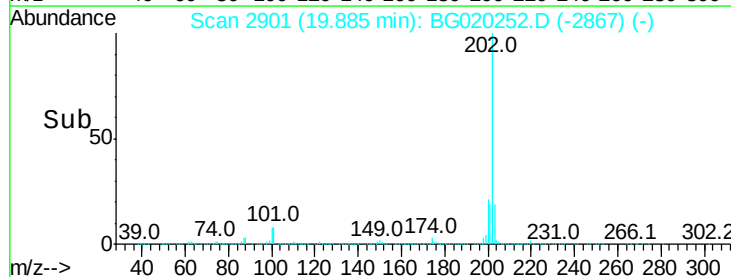
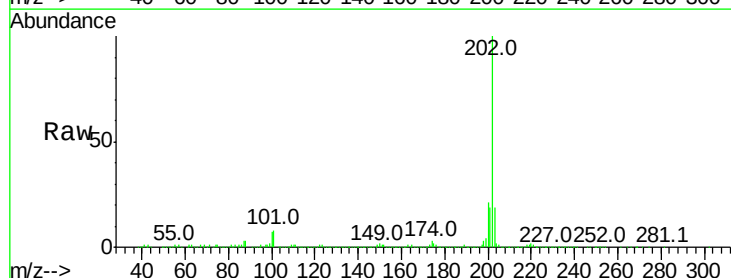
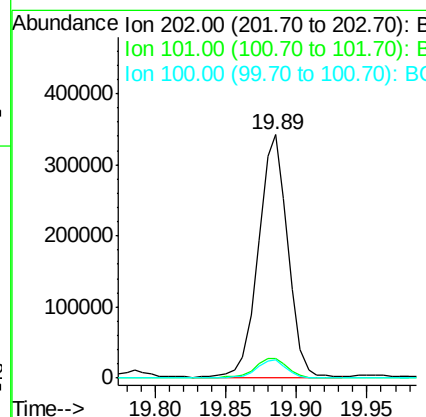
RT: 19.89 min Scan# 2901

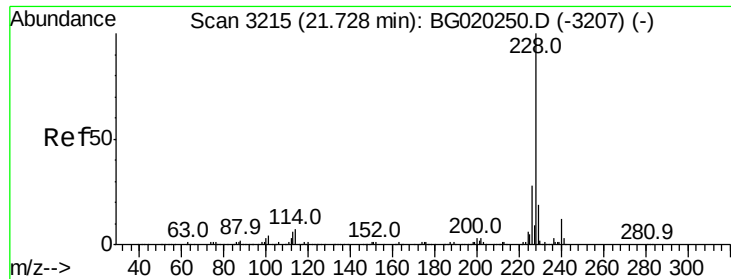
Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		497256		
101	8.3	7.0	10.4		
100	7.4	6.4	9.6		





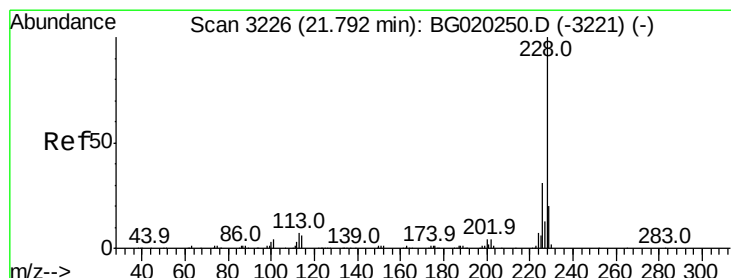
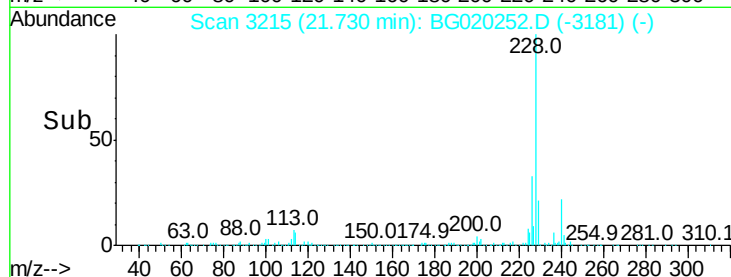
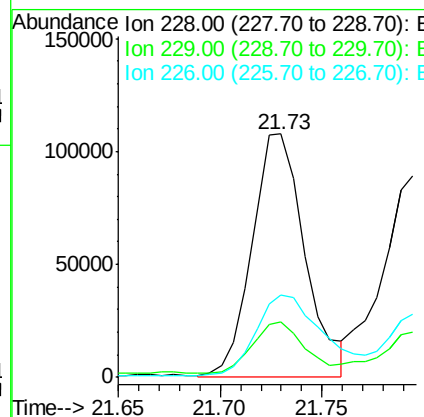
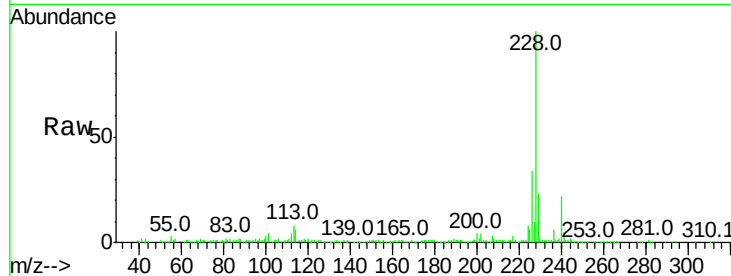
#83
Benzo(a)anthracene
Concen: 19.96 ng/ul m
RT: 21.73 min Scan# 3215
Delta R.T. 0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Instrument :
BNA_G
ClientSampleId :
G9BN9DL

Tot Ion	Ratio	Lower	Upper
228	100		
229	22.6	15.8	23.8
226	34.0	21.8	32.6

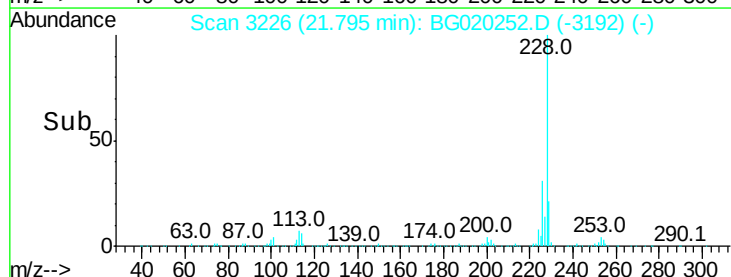
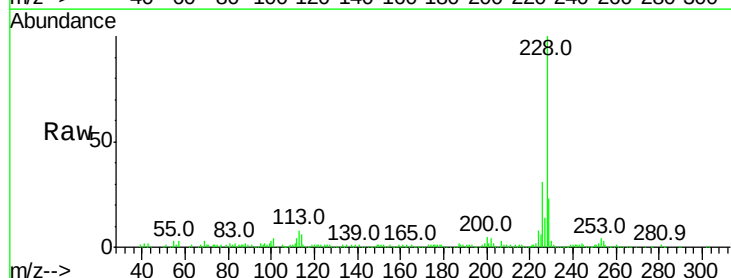
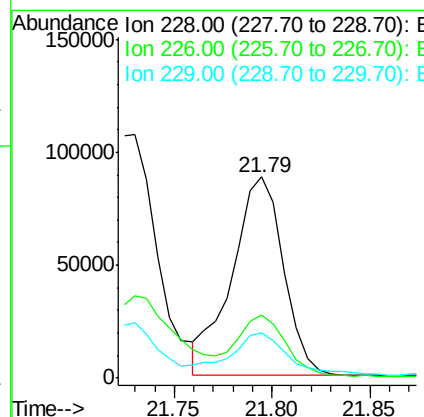
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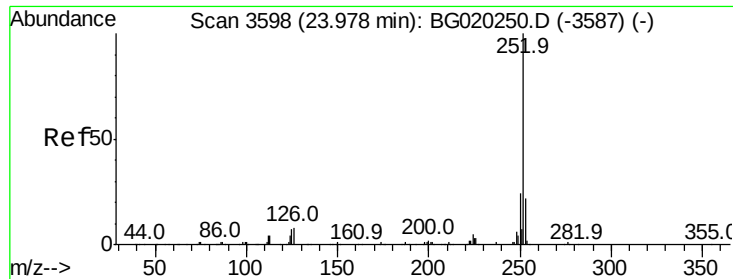
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#85
Chrysene
Concen: 17.48 ng/ul
RT: 21.79 min Scan# 3226
Delta R.T. 0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	23.9	35.9
229	22.6	15.6	23.4





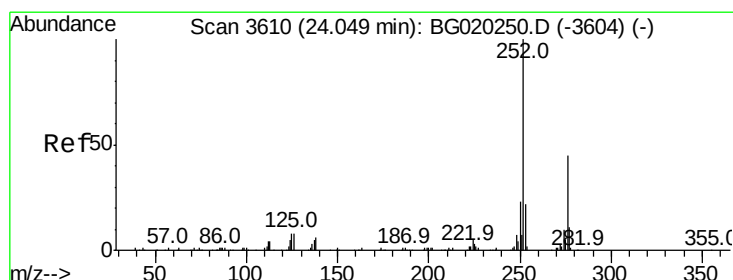
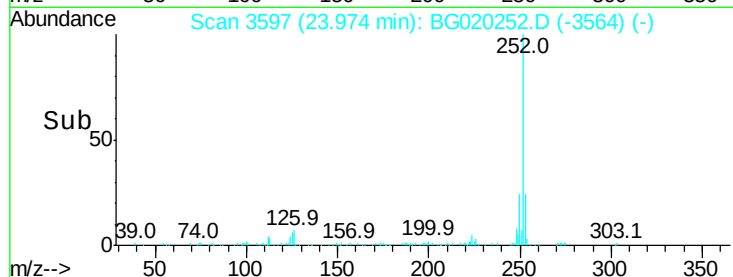
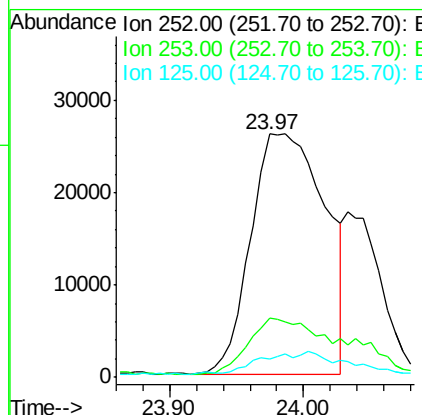
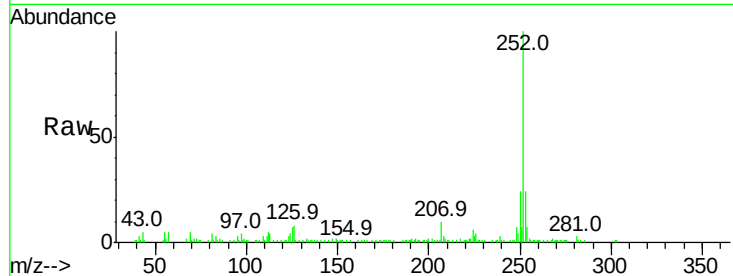
#88
Benzo(b)fluoranthene
Concen: 10.07 ng/ul
RT: 23.97 min Scan# 3597
Delta R.T. -0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Instrument :
BNA_G
ClientSampleId :
G9BN9DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	16.7	25.1
125	7.3	6.2	9.2

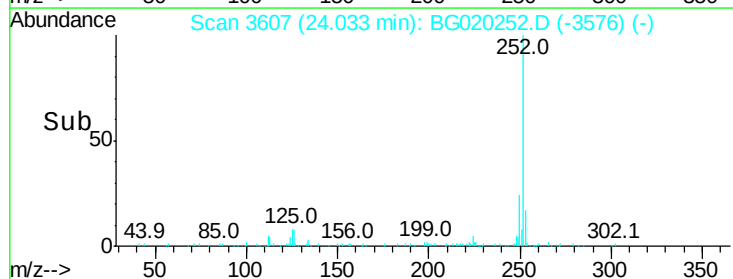
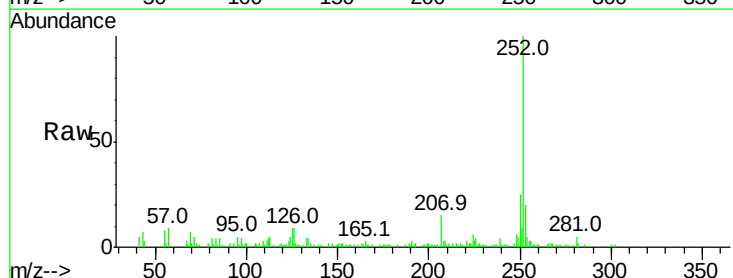
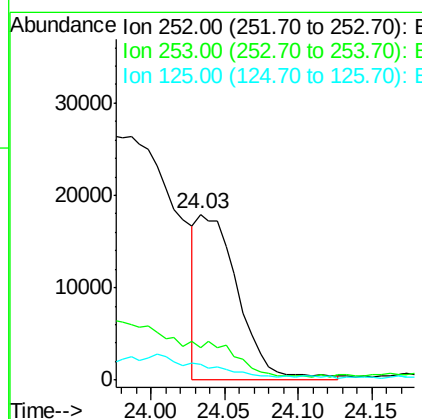
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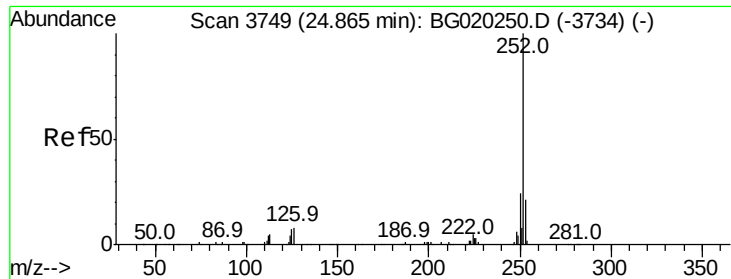
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#89
Benzo(k)fluoranthene
Concen: 3.68 ng/ul m
RT: 24.03 min Scan# 3607
Delta R.T. -0.02 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	19.7	17.9	26.9
125	9.2	5.8	8.6





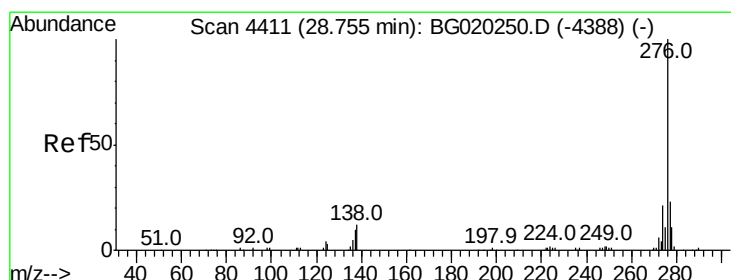
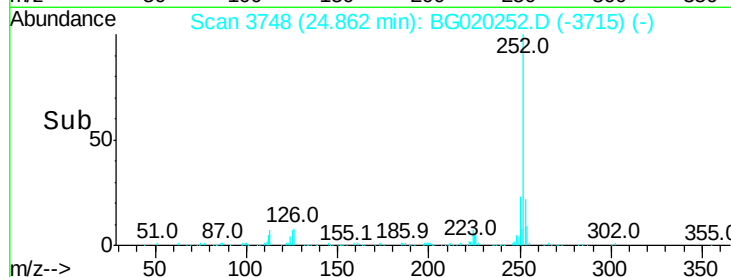
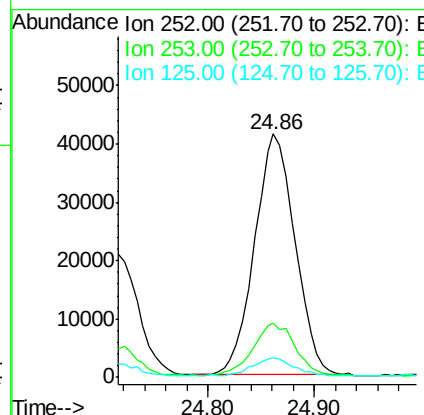
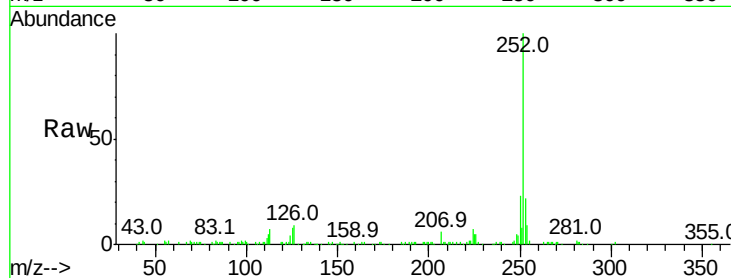
#91
Benzo(a)pyrene
Concen: 11.62 ng/ul
RT: 24.86 min Scan# 3748
Delta R.T. -0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Instrument :
BNA_G
ClientSampleID :
G9BN9DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	8.2	6.2	9.4

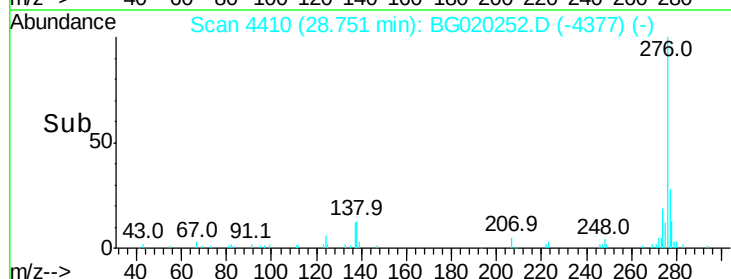
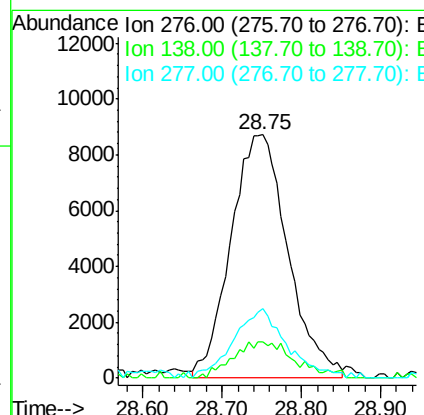
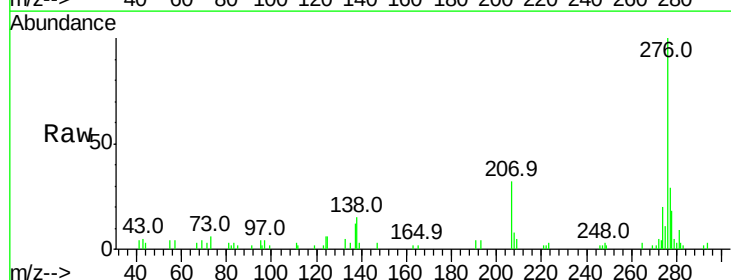
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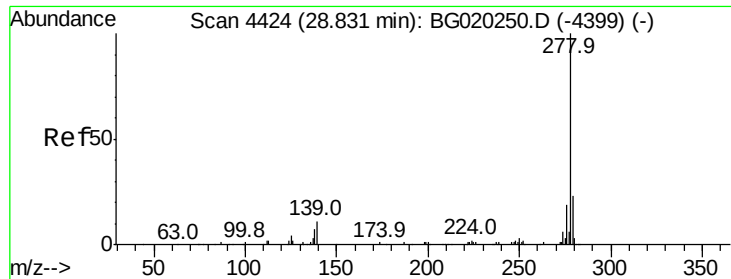
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#92
Indeno(1,2,3-cd)pyrene
Concen: 3.87 ng/ul
RT: 28.75 min Scan# 4410
Delta R.T. -0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.9	11.4	17.0
277	28.5	17.4	26.0





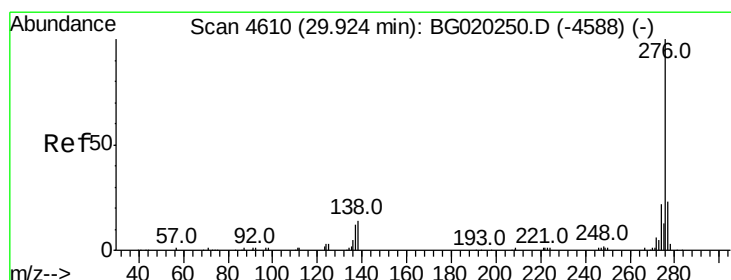
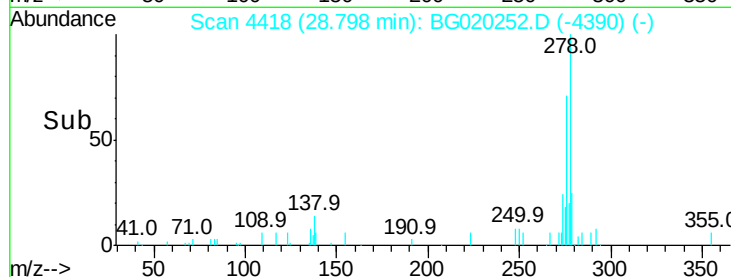
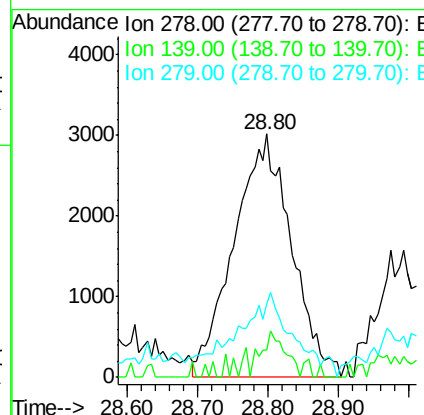
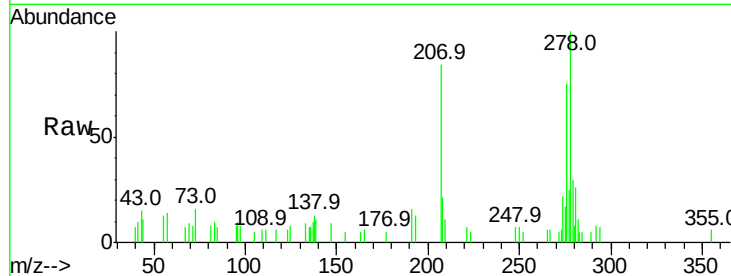
#93
Dibenzo(a,h)anthracene
Concen: 1.83 ng/ul m
RT: 28.80 min Scan# 4418
Delta R.T. -0.03 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Instrument :
BNA_G
ClientSampleId :
G9BN9DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	11.1	9.4	14.2
279	30.1	19.4	29.0

Manual Integrations
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#94
Benzo(g,h,i)perylene
Concen: 4.31 ng/ul m
RT: 29.90 min Scan# 4606
Delta R.T. -0.02 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	13.9	10.8	16.2
277	23.4	19.9	29.9

