

Data Path : U:\HPCHEM1\BNA G\DATA\BG082317\
 Data File : BG028447.D
 Acq On : 23 Aug 2017 12:47
 Operator : SJ/JU
 Sample : I4827-05DL 30X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 B0AB4DL

Quant Time: Aug 24 01:30:39 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 24 01:29:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.35	152	41046	20.00	ng/ul	0.00
18) Naphthalene-d8	11.16	136	185727	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.96	164	130784	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.81	188	15346	20.00	ng/ul	0.10
75) Chrysene-d12	22.04	240	322990	20.00	ng/ul	0.00
83) Perylene-d12	25.54	264	315114	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.83	96	62	0.07	ng/uL	0.00
5) Phenol-d5	7.51	99	3212	0.71	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.67	67	1843	0.65	ng/ul	0.00
9) 2-Chlorophenol-d4	7.88	132	2929	1.03	ng/ul	0.00
13) 4-Methylphenol-d8	9.05	113	2664	0.71	ng/ul	0.01
19) Nitrobenzene-d5	9.52	128	1306	0.90	ng/ul	0.00
22) 2-Nitrophenol-d4	10.24	143	1129	0.71	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.79	165	3433	1.04	ng/ul	0.01
29) 4-Chloroaniline-d4	11.30	131	2787	0.76	ng/ul	0.00
43) Dimethylphthalate-d6	14.34	166	10900	0.94	ng/ul	0.00
46) Acenaphthylene-d8	14.65	160	12555	0.96	ng/ul	0.00
51) 4-Nitrophenol-d4	15.19	143	226	0.12	ng/ul	0.04
57) Fluorene-d10	15.94	176	10397	1.00	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.08	200	76	0.76	ng/ul	0.02
70) Anthracene-d10	17.81	188	15346	20.85	ng/ul	0.00
76) Pyrene-d10	20.08	212	17925	1.08	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.30	264	16828	1.14	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	11.21	128	56915	6.187	ng/ul	99
30) 4-Chloroaniline	11.21	127	7584	2.133	ng/ul#	15
34) 2-Methylnaphthalene	12.80	142	29488	3.991	ng/ul	94
40) 1,1'-Biphenyl	13.79	154	11967	1.253	ng/ul	93
47) Acenaphthylene	14.68	152	20464	1.633	ng/ul#	90
49) Acenaphthene	15.02	153	70466	8.333	ng/ul	94
53) Dibenzofuran	15.34	168	94096	7.632	ng/ul	96
58) Fluorene	16.00	166	136314	12.488	ng/ul	99
64) N-Nitrosodiphenylamine	16.07	169	1151	2.851	ng/ul	95
69) Phenanthrene	17.84	178	322858	418.051	ng/ul	97
71) Anthracene	17.84	178	322858	409.035	ng/ul	97
72) Carbazole	18.11	167	94505	137.670	ng/ul	96
74) Fluoranthene	19.75	202	1625335	1731.711	ng/ul	99
77) Pyrene	20.11	202	1437254	74.586	ng/ul	98
80) Benzo(a)anthracene	22.02	228	715170	38.322	ng/ul	99
82) Chrysene	22.09	228	616743	36.695	ng/ul	99
85) Benzo(b)fluoranthene	24.43	252	704600	37.366	ng/ul#	99
86) Benzo(k)fluoranthene	24.43	252	704600	38.253	ng/ul#	98
88) Benzo(a)pyrene	25.38	252	568834	31.156	ng/ul	98
89) Indeno(1,2,3-cd)pyrene	29.57	276	282059	13.192	ng/ul	96
90) Dibenzo(a,h)anthracene	29.62	278	72907	4.068	ng/ul	98
91) Benzo(a,h,i)perylene	30.84	276	233779	13.291	ng/ul	94

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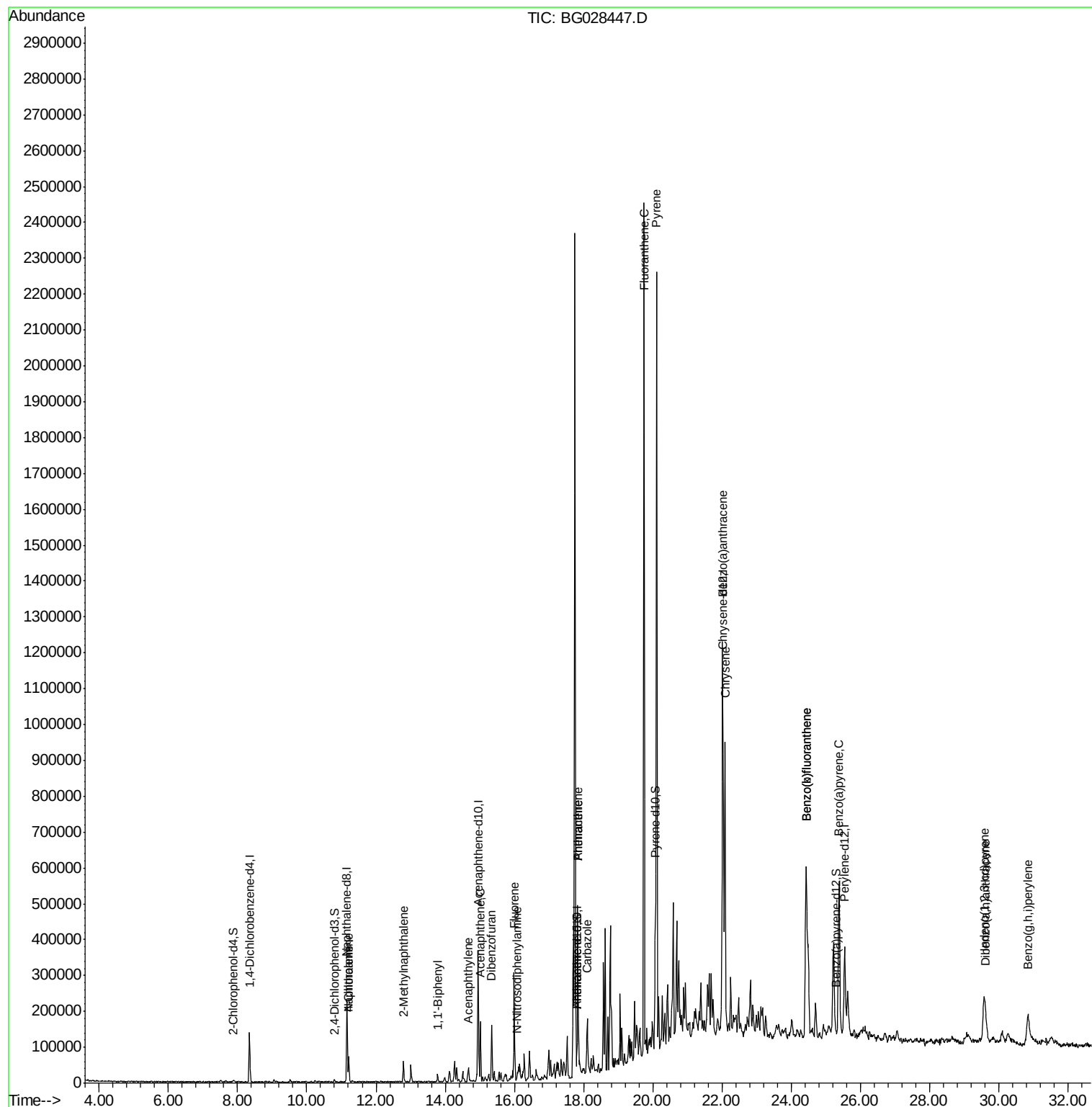
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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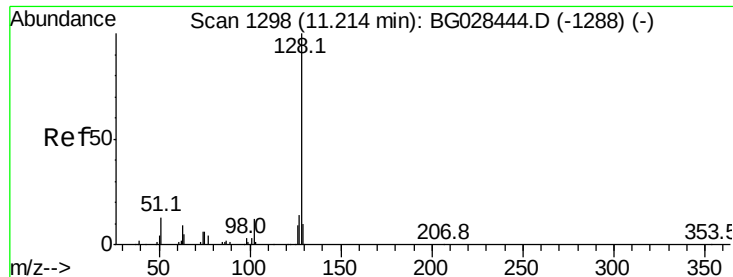
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 6.187 ng/ul

RT: 11.21 min Scan# 1298

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

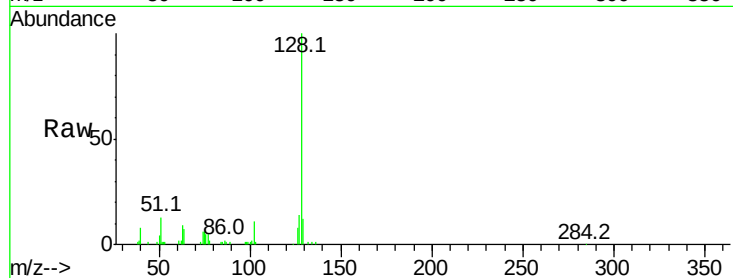
Tot Ion:128 Resp: 56915

Ion Ratio Lower Upper

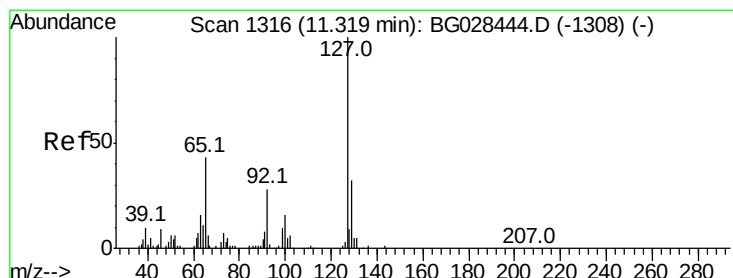
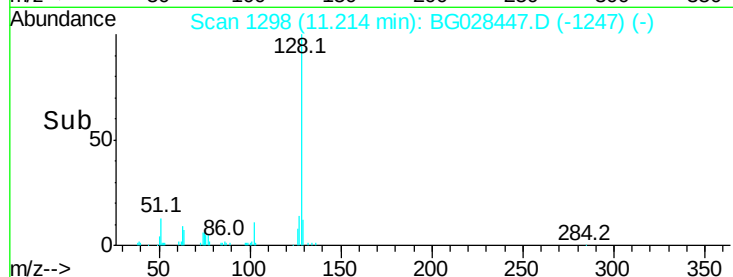
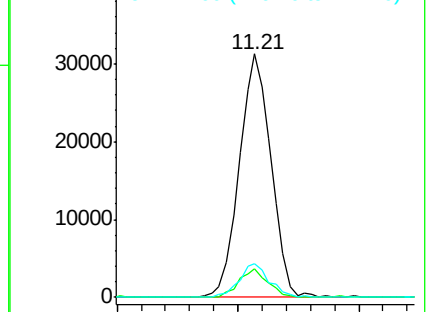
128 100

129 11.8 9.4 14.2

127 13.8 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#30

4-Chloroaniline

Concen: 2.133 ng/ul

RT: 11.21 min Scan# 1298

Delta R.T. -0.11 min

Lab File: BG028447.D

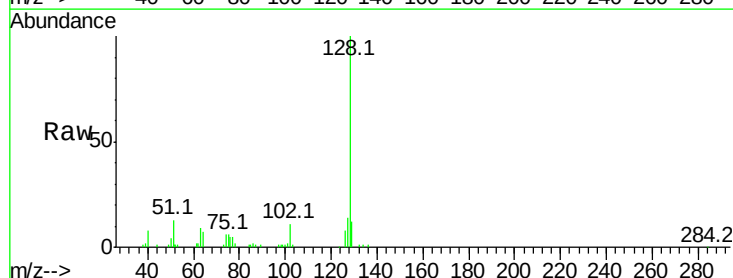
Acq: 23 Aug 2017 12:47

Tgt Ion:127 Resp: 7584

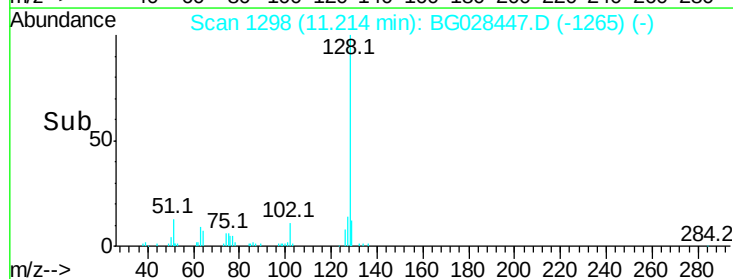
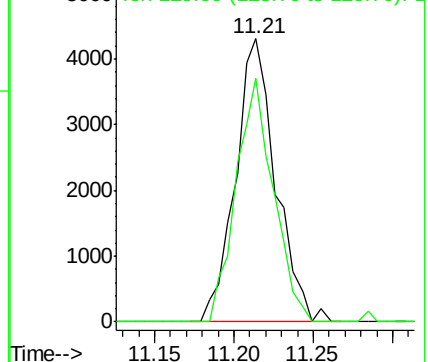
Ion Ratio Lower Upper

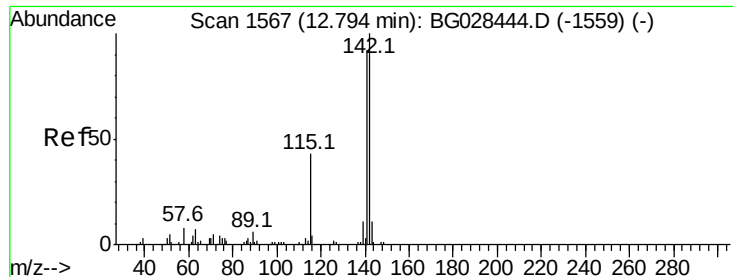
127 100

129 86.0 28.9 43.3#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

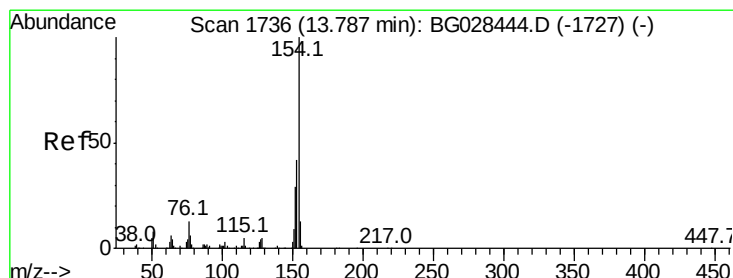
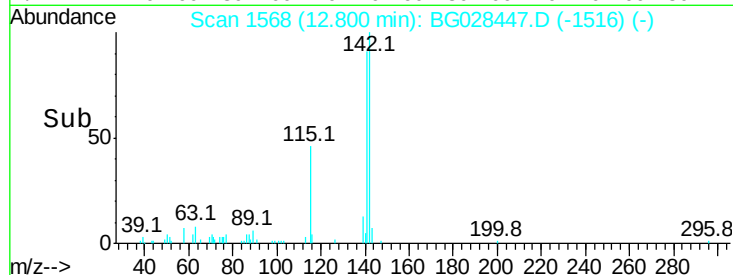
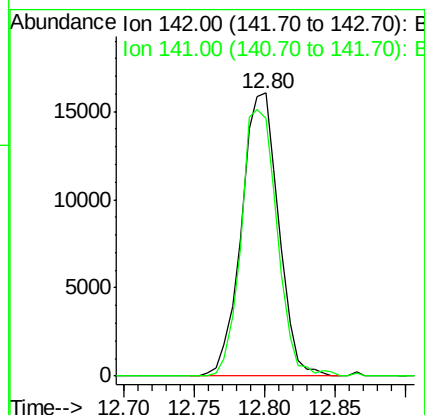
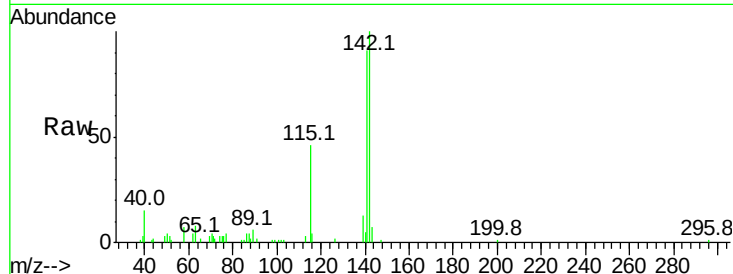




#34
 2-Methylnaphthalene
 Concen: 3.991 ng/ul
 RT: 12.80 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: BG028447.D
 Acq: 23 Aug 2017 12:47

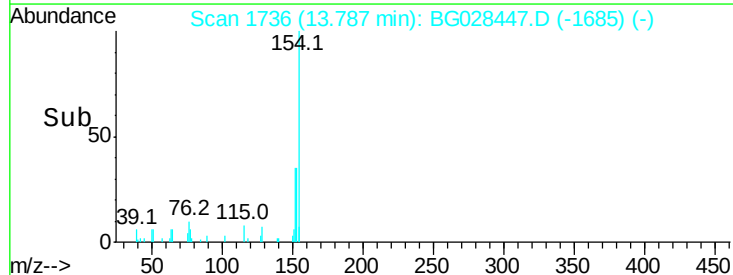
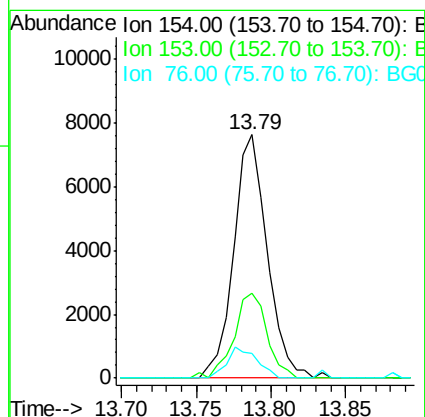
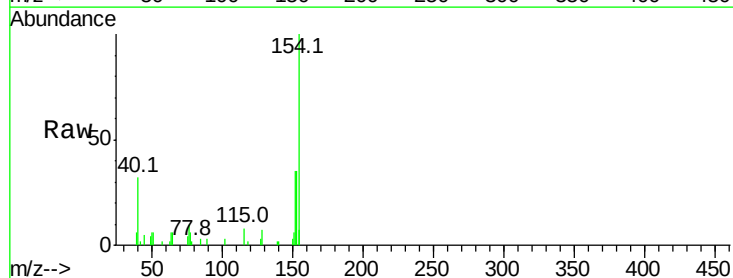
Instrument :
 BNA_G
 ClientSampleId :
 B0AB4DL

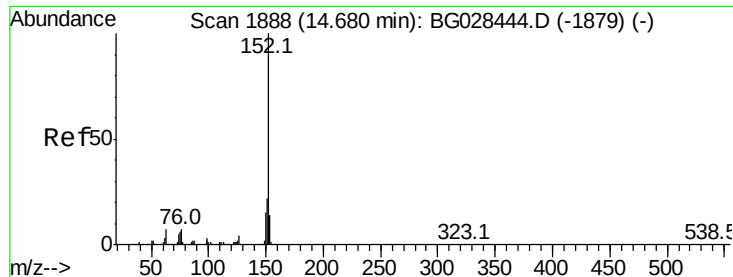
Tot Ion:142 Resp: 29488
 Ion Ratio Lower Upper
 142 100
 141 91.1 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 1.253 ng/ul
 RT: 13.79 min Scan# 1736
 Delta R.T. 0.00 min
 Lab File: BG028447.D
 Acq: 23 Aug 2017 12:47

Tgt Ion:154 Resp: 11967
 Ion Ratio Lower Upper
 154 100
 153 35.1 32.2 48.2
 76 10.3 9.6 14.4





#47

Acenaphthylene

Concen: 1.633 ng/ul

RT: 14.68 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

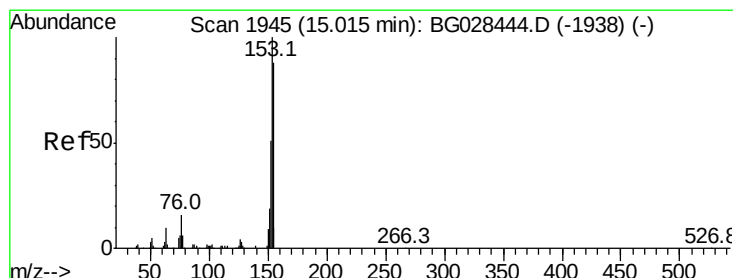
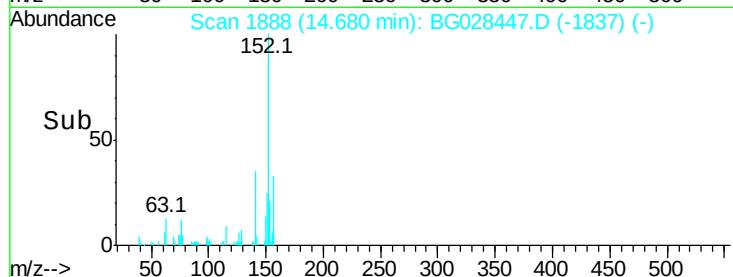
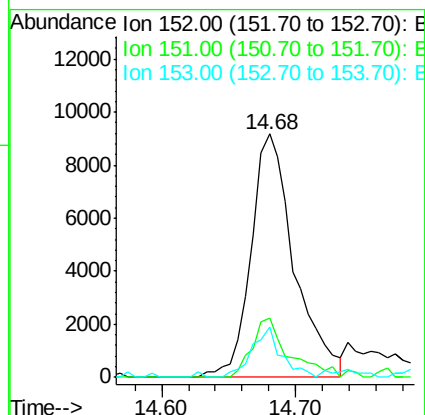
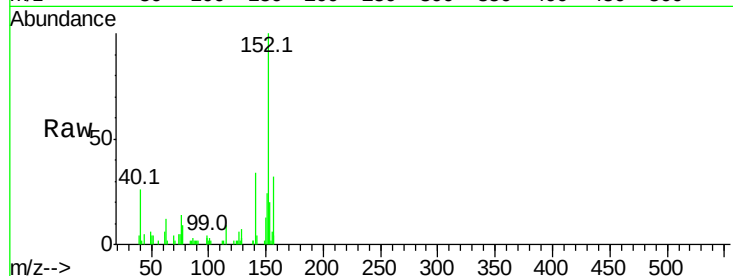
Tot Ion:152 Resp: 20464

Ion Ratio Lower Upper

152 100

151 24.2 16.7 25.1

153 20.5 11.4 17.2#



#49

Acenaphthene

Concen: 8.333 ng/ul

RT: 15.02 min Scan# 1945

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

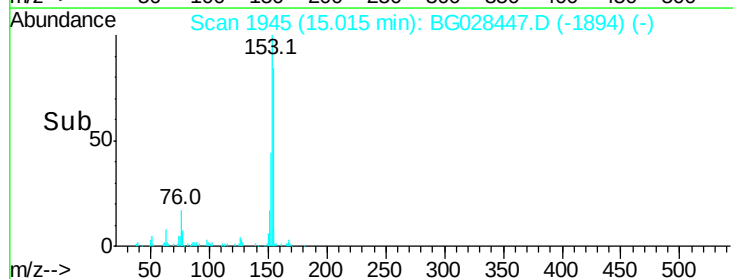
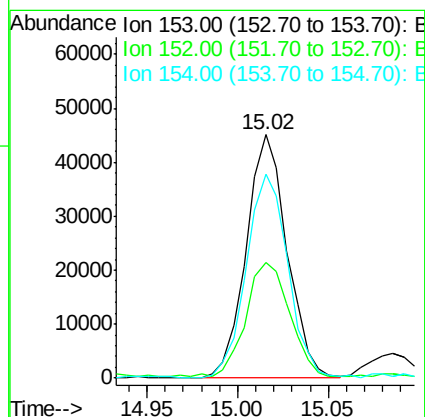
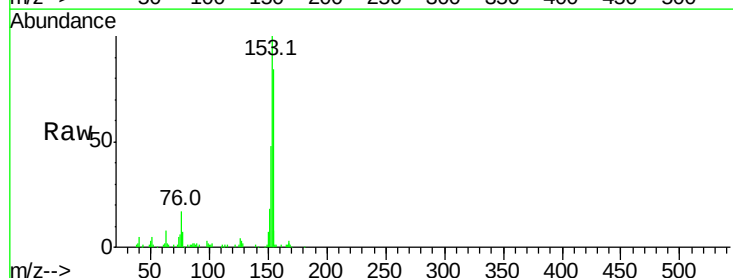
Tgt Ion:153 Resp: 70466

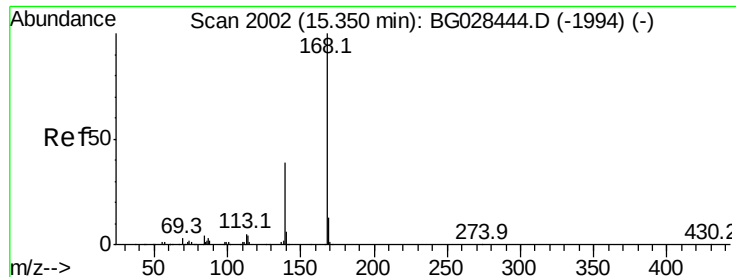
Ion Ratio Lower Upper

153 100

152 47.7 36.5 54.7

154 84.0 72.3 108.5





#53

Dibenzenofuran

Concen: 7.632 ng/ul

RT: 15.34 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

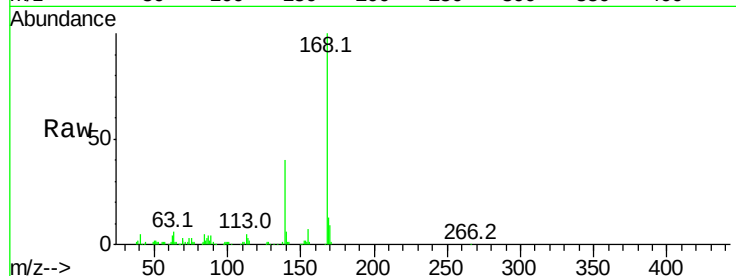
B0AB4DL

Tot Ion:168 Resp: 94096

Ion Ratio Lower Upper

168 100

139 39.7 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

60000

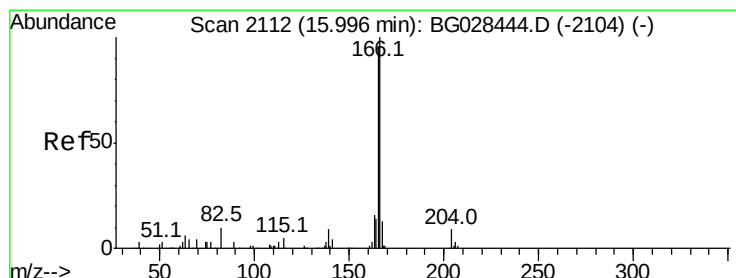
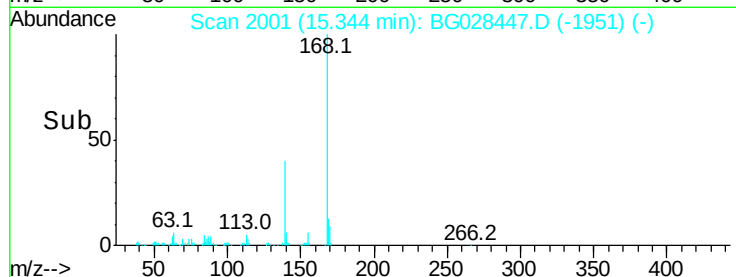
40000

20000

0

15.25 15.30 15.35 15.40

Time-->



#58

Fluorene

Concen: 12.488 ng/ul

RT: 16.00 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

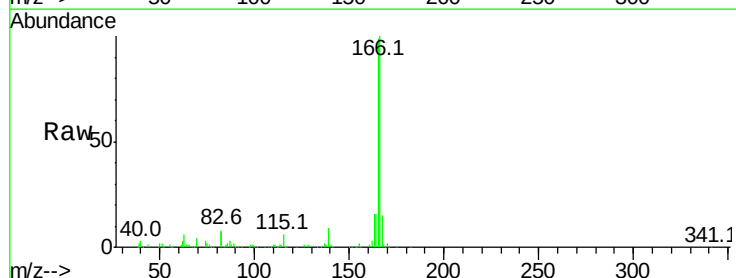
Tgt Ion:166 Resp: 136314

Ion Ratio Lower Upper

166 100

165 99.0 79.7 119.5

167 14.6 11.4 17.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

120000

100000

80000

60000

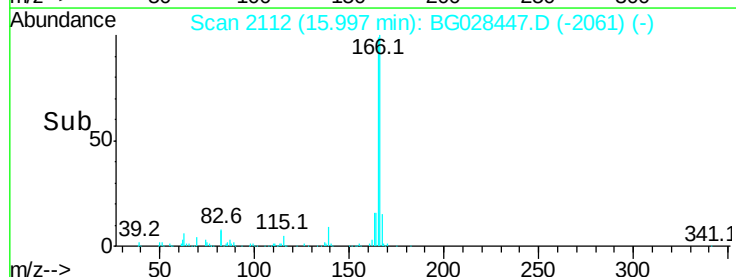
40000

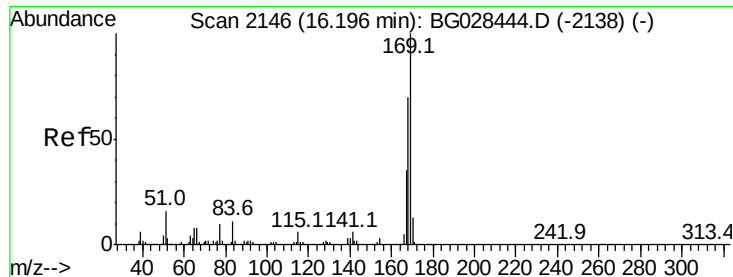
20000

0

15.95 16.00 16.05

Time-->



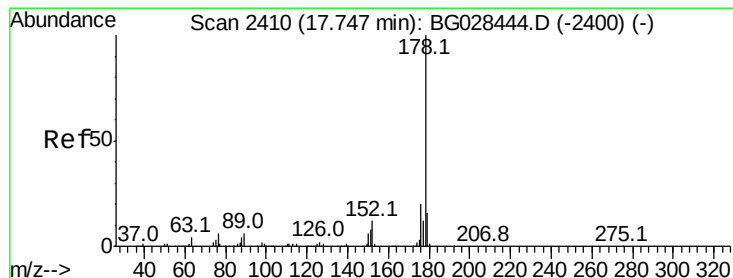
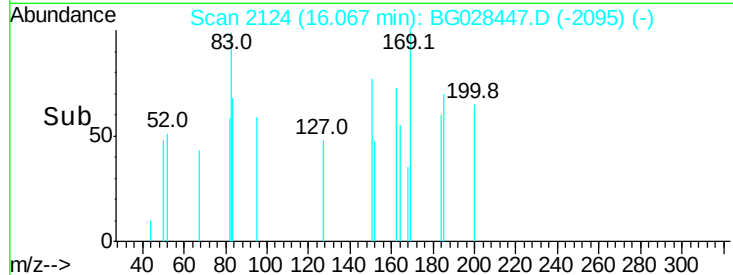
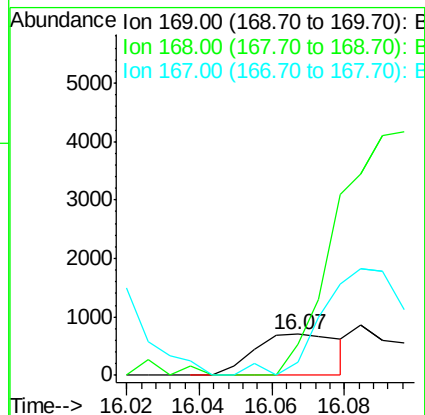
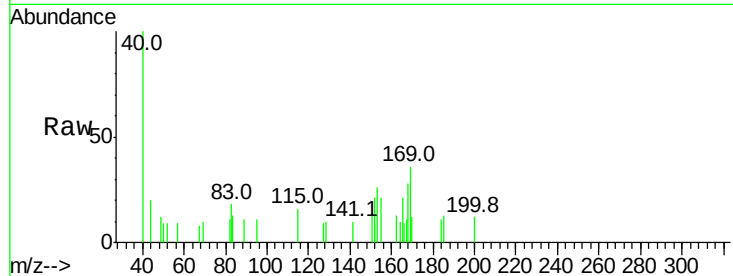


#64

N-Nitrosodiphenylamine
 Concen: 2.851 ng/ul
 RT: 16.07 min Scan# 2124
 Delta R.T. -0.13 min
 Lab File: BG028447.D
 Acq: 23 Aug 2017 12:47

Instrument :
 BNA_G
 ClientSampled :
 B0AB4DL

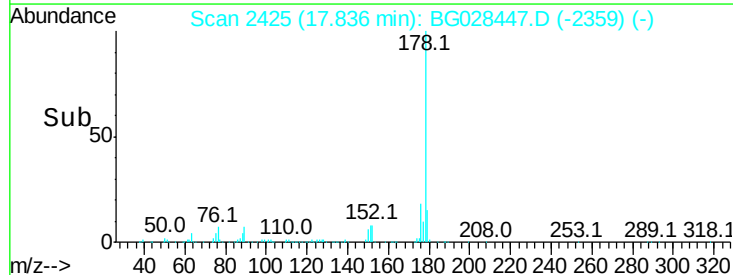
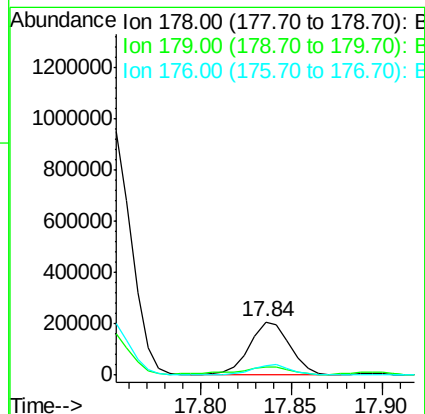
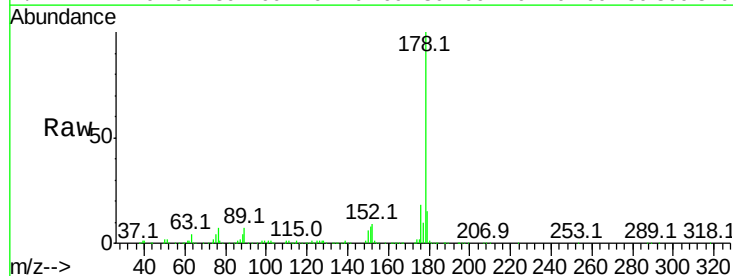
Tot Ion	Ratio	Lower	Upper
169	100		
168	76.0	59.1	88.7
167	30.6	29.7	44.5

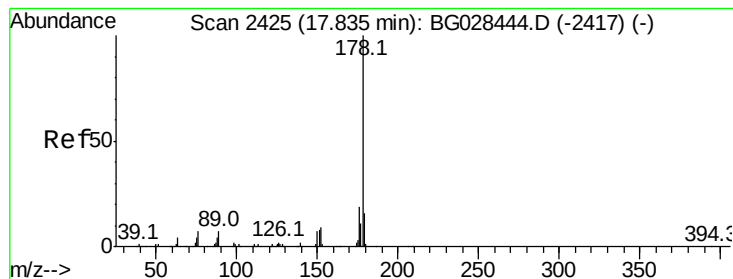


#69

Phenanthrene
 Concen: 418.051 ng/ul
 RT: 17.84 min Scan# 2425
 Delta R.T. 0.09 min
 Lab File: BG028447.D
 Acq: 23 Aug 2017 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.4	18.6
176	18.1	16.5	24.7





#71

Anthracene

Concen: 409.035 ng/ul

RT: 17.84 min Scan# 2425

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

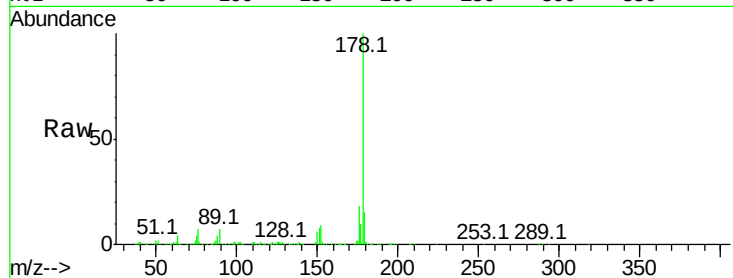
Tot Ion:178 Resp: 322858

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.6	19.0
176	18.1	15.9	23.9

178 100

179 15.2 12.6 19.0

176 18.1 15.9 23.9

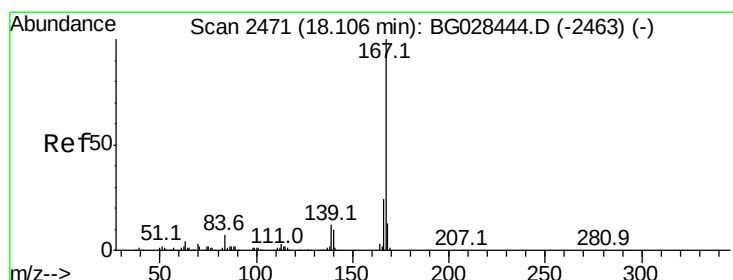
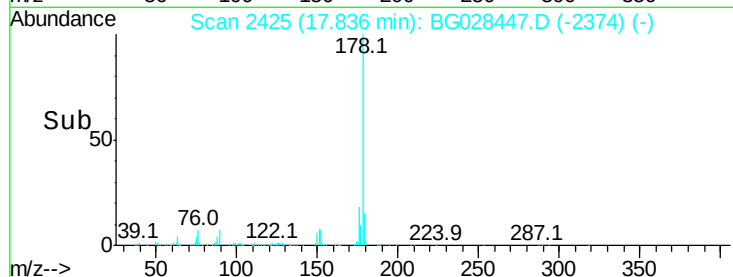
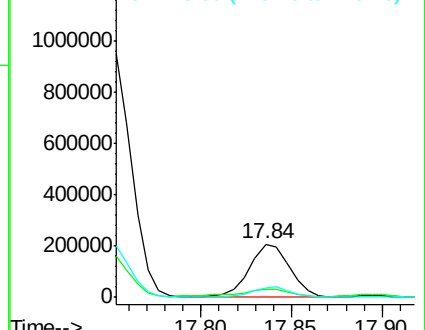


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 137.670 ng/ul

RT: 18.11 min Scan# 2471

Delta R.T. 0.00 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

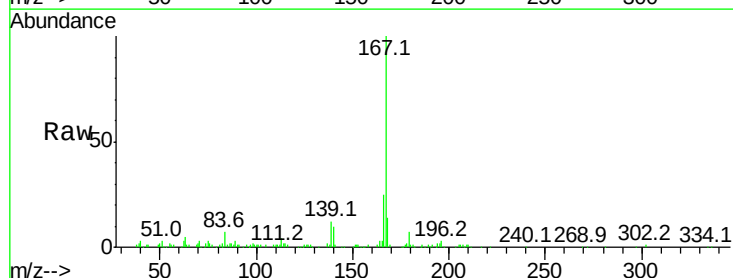
Tgt Ion:167 Resp: 94505

Ion	Ratio	Lower	Upper
167	100		
166	25.2	17.9	26.9
139	12.3	10.5	15.7

167 100

166 25.2 17.9 26.9

139 12.3 10.5 15.7

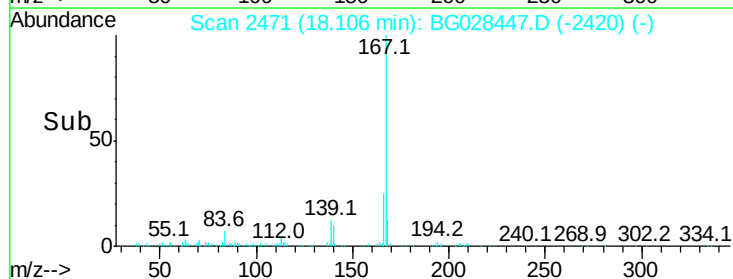
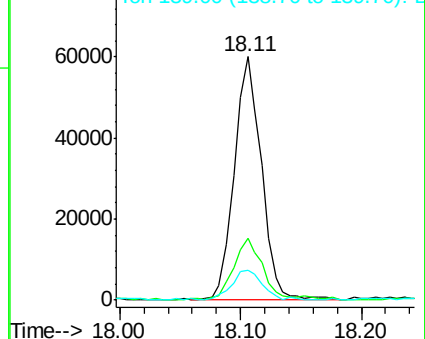


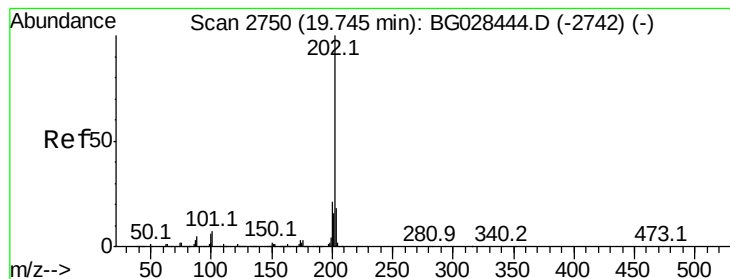
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 1731.711 ng/ul

RT: 19.75 min Scan# 2751

Delta R.T. 0.01 min

Lab File: BG028447.D

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Instrument :

BNA_G

ClientSampleId :

B0AB4DL

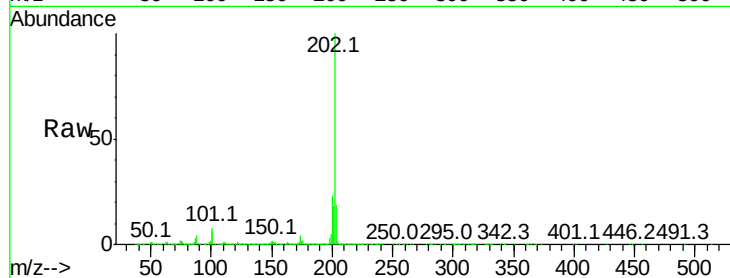
Tot Ion:202 Resp: 1625335

Ion Ratio Lower Upper

202 100

101 7.6 6.2 9.2

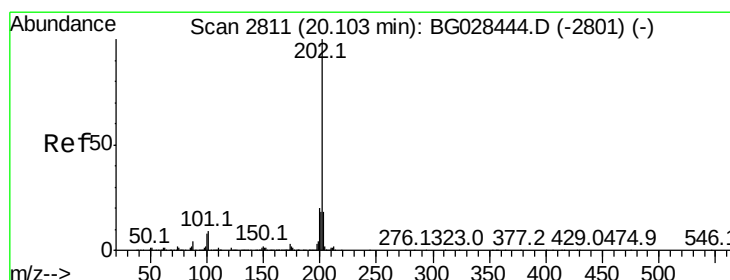
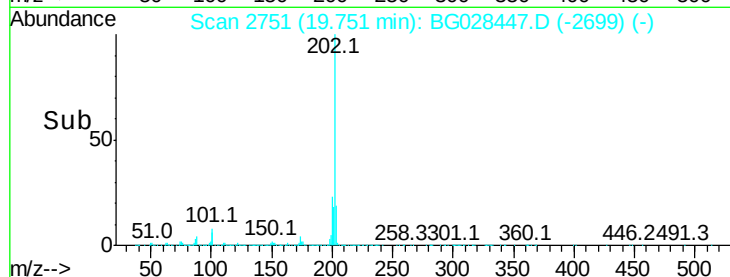
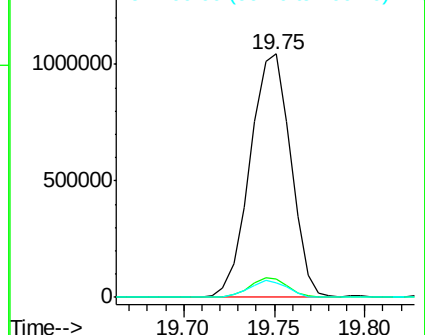
100 6.0 5.2 7.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 74.586 ng/ul

RT: 20.11 min Scan# 2812

Delta R.T. 0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

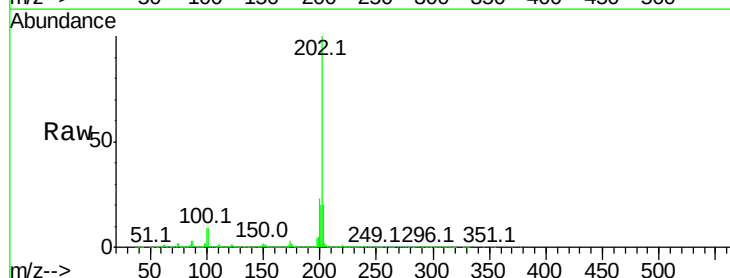
Tgt Ion:202 Resp: 1437254

Ion Ratio Lower Upper

202 100

101 9.3 6.9 10.3

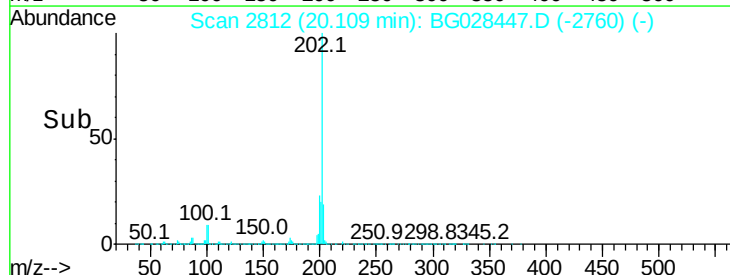
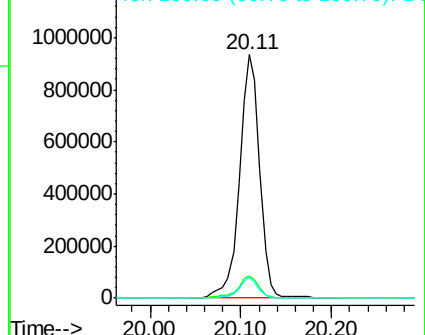
100 8.7 6.6 10.0

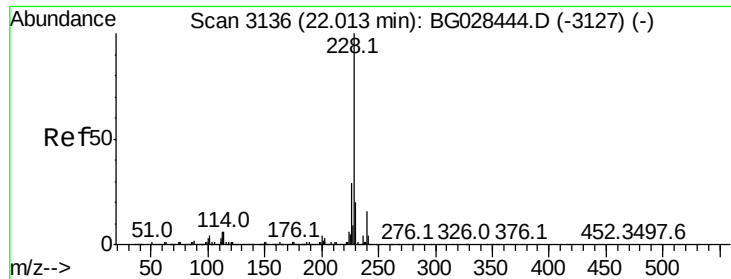


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 38.322 ng/ul

RT: 22.02 min Scan# 3137

Delta R.T. 0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

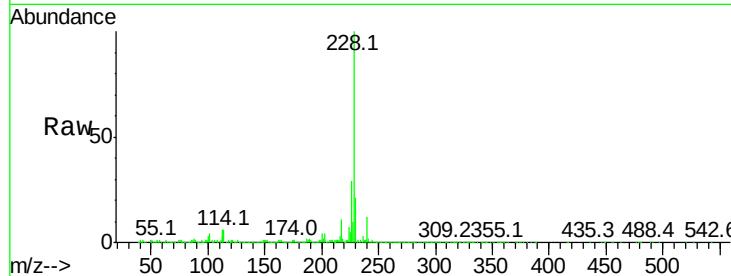
Tot Ion:228 Resp: 715170

Ion	Ratio	Lower	Upper
228	100		
229	20.7	16.3	24.5
226	28.5	21.9	32.9

228 100

229 20.7 16.3 24.5

226 28.5 21.9 32.9

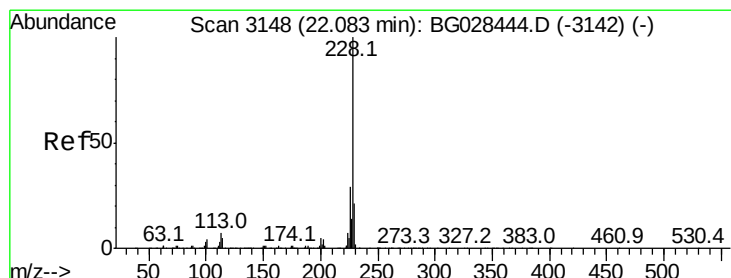
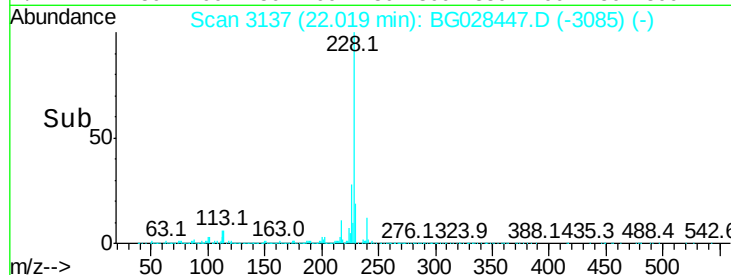
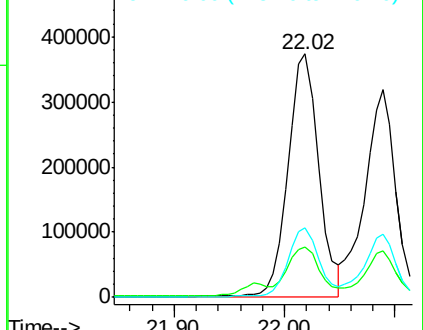


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 36.695 ng/ul

RT: 22.09 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

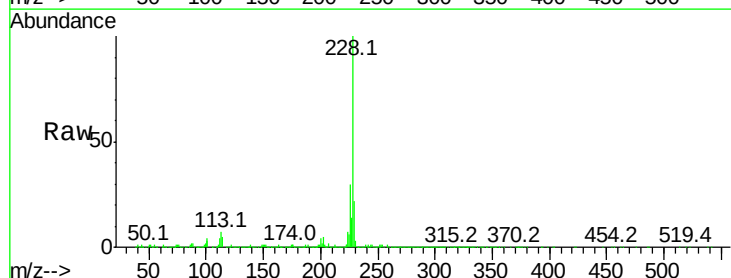
Tgt Ion:228 Resp: 616743

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.0	36.0
229	22.2	16.9	25.3

228 100

226 30.3 24.0 36.0

229 22.2 16.9 25.3

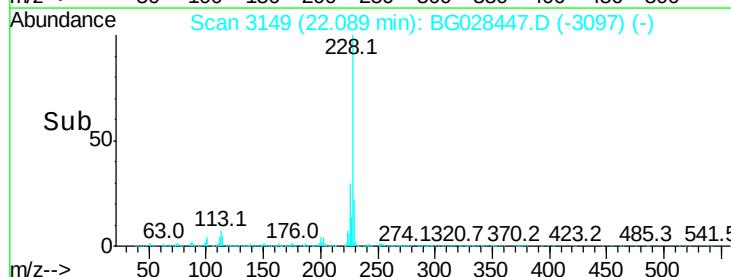
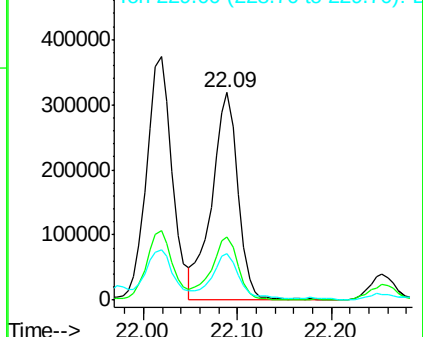


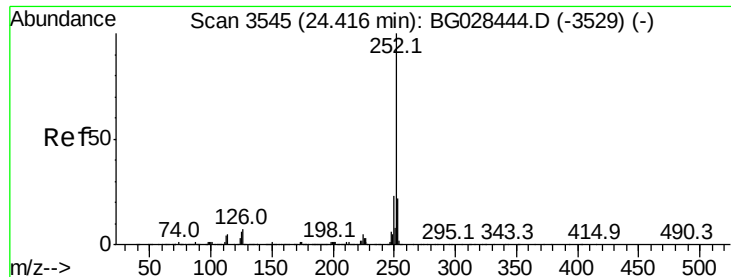
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 37.366 ng/ul

RT: 24.43 min Scan# 3548

Delta R.T. 0.02 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

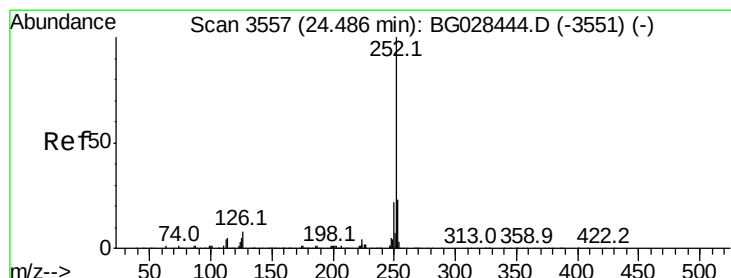
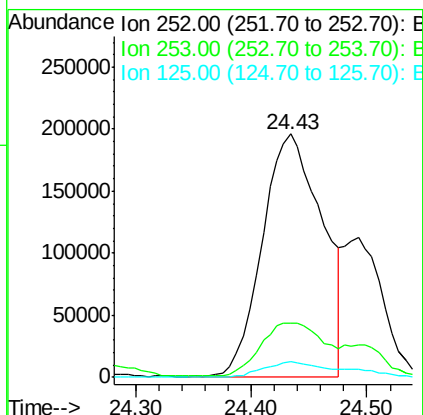
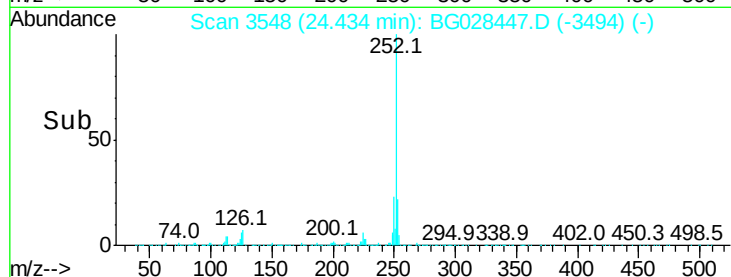
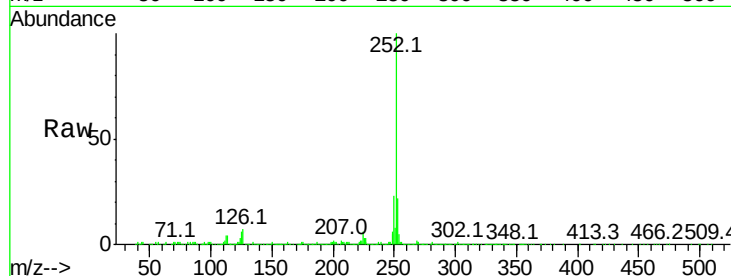
Tot Ion:252 Resp: 704600

Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

125 6.4 4.0 6.0#



#86

Benzo(k)fluoranthene

Concen: 38.253 ng/ul

RT: 24.43 min Scan# 3548

Delta R.T. -0.05 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

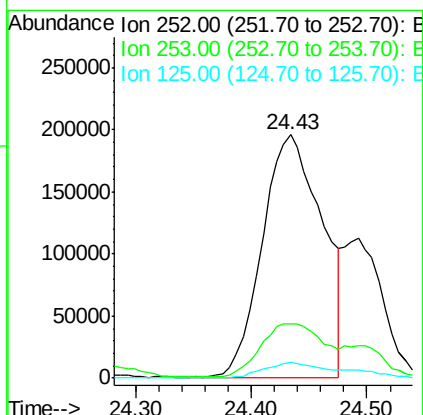
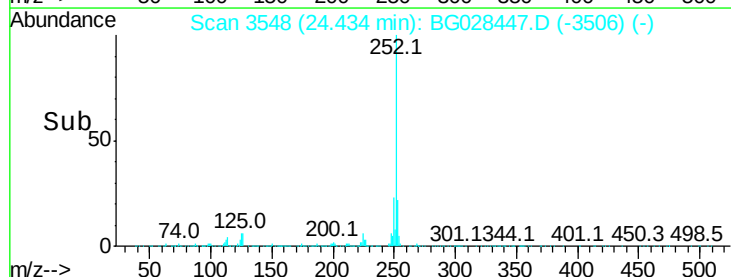
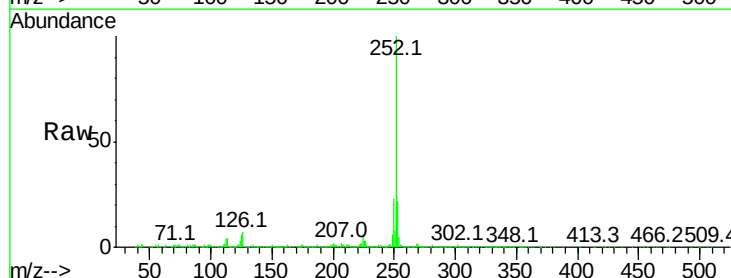
Tgt Ion:252 Resp: 704600

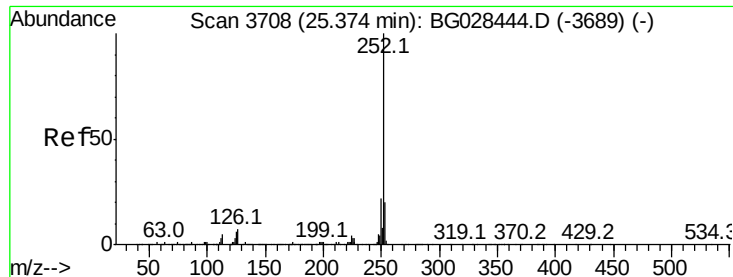
Ion Ratio Lower Upper

252 100

253 22.4 18.5 27.7

125 6.4 4.1 6.1#





#88

Benzo(a)pyrene

Concen: 31.156 ng/ul

RT: 25.38 min Scan# 3709

Delta R.T. 0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

Instrument :

BNA_G

ClientSampleId :

B0AB4DL

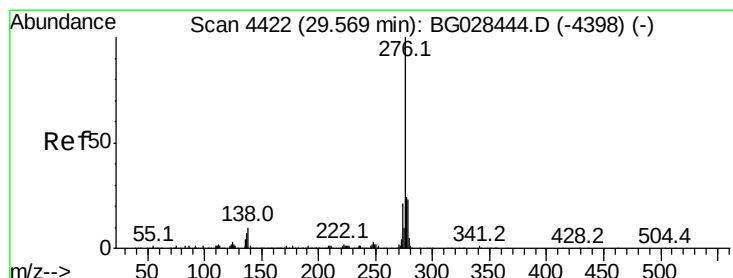
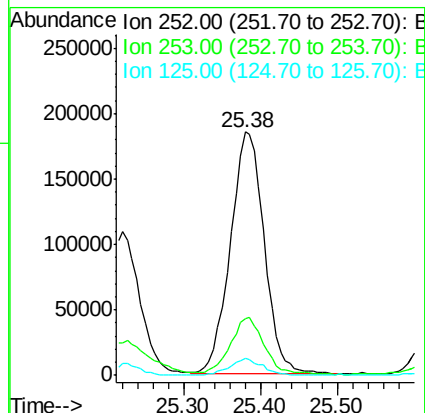
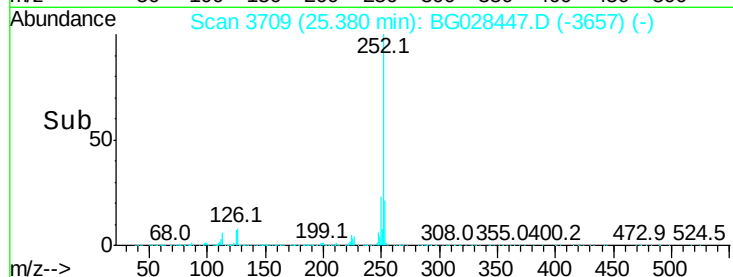
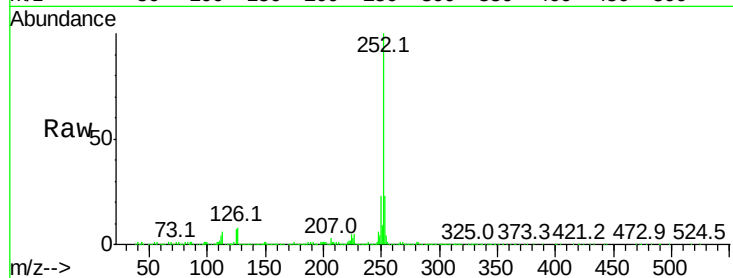
Tot Ion:252 Resp: 568834

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

125 6.8 5.4 8.0



#89

Indeno(1,2,3-cd)pyrene

Concen: 13.192 ng/ul

RT: 29.57 min Scan# 4423

Delta R.T. 0.01 min

Lab File: BG028447.D

Acq: 23 Aug 2017 12:47

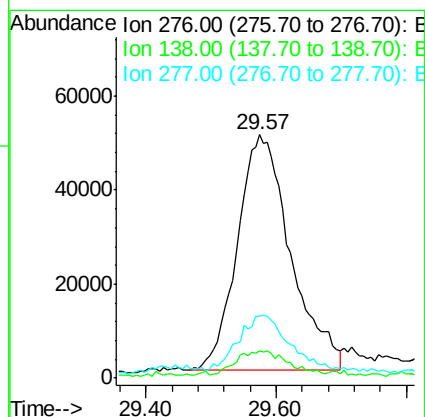
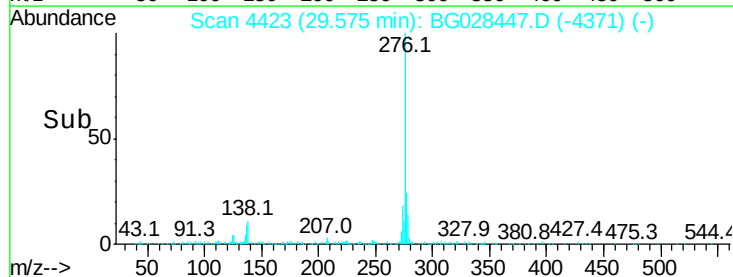
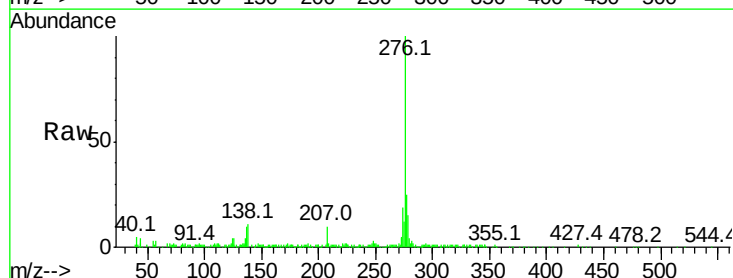
Tgt Ion:276 Resp: 282059

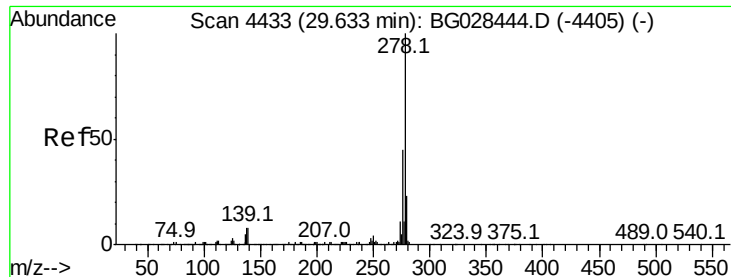
Ion Ratio Lower Upper

276 100

138 11.1 8.2 12.4

277 25.3 18.6 28.0



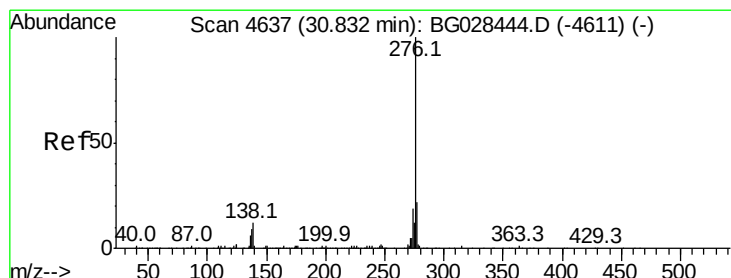
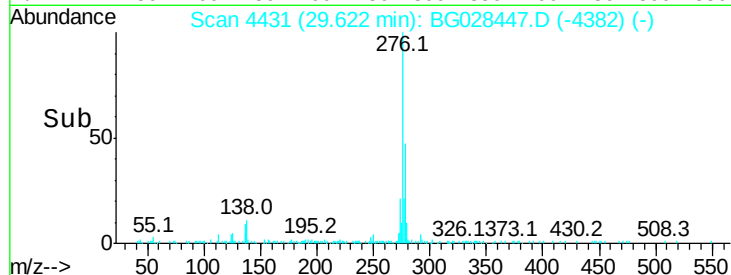
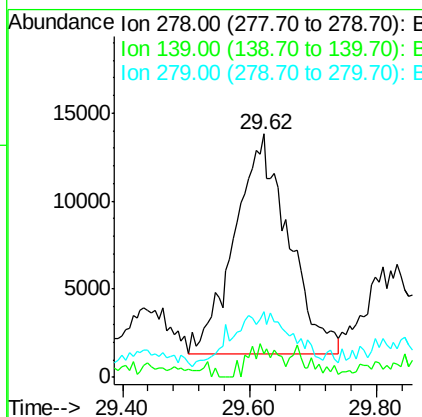
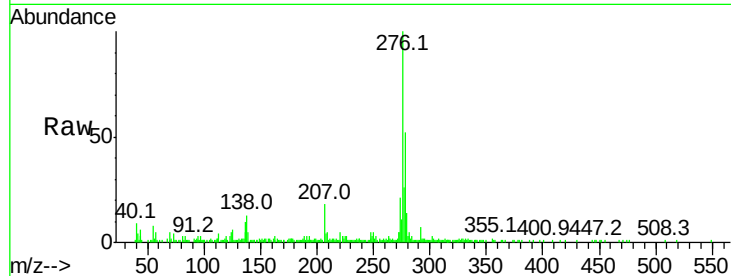


#90
Dibenzo(a,h)anthracene
Concen: 4.068 ng/ul
RT: 29.62 min Scan# 4431
Delta R.T. -0.01 min
Lab File: BG028447.D
Acq: 23 Aug 2017 12:47

Instrument :
BNA_G
ClientSampleId :
B0AB4DL

Tot Ion:278 Resp: 72907

Ion	Ratio	Lower	Upper
278	100		
139	9.9	6.7	10.1
279	26.7	20.9	31.3



#91
Benzo(g,h,i)perylene
Concen: 13.291 ng/ul
RT: 30.84 min Scan# 4639
Delta R.T. 0.01 min
Lab File: BG028447.D
Acq: 23 Aug 2017 12:47

Tgt Ion:276 Resp: 233779

Ion	Ratio	Lower	Upper
276	100		
138	12.3	8.6	12.8
277	25.5	17.6	26.4

