

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020423.D
 Acq On : 23 Dec 2015 1:32
 Operator : UM/SJ
 Sample : G4866-12
 Misc : MED LEVEL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 E43M4

Quant Time: Dec 23 07:41:18 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 23 07:35:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	17123	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	79446	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	59659	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	142545	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	178542	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	176739	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	1015	3.27	ng/uL	0.00
5) Phenol-d5	7.24	99	28625	18.96	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	18291	20.30	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	23057	21.00	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	6655	5.15	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	13795	22.28	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	16788	24.36	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	27565	19.75	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	7445	4.75	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	108726	22.53	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	124267	22.13	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	9923	11.47	ng/ul	0.00
58) Fluorene-d10	15.71	176	95293	21.77	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	14421	17.07	ng/ul	0.00
71) Anthracene-d10	17.57	188	143732	21.88	ng/ul	0.00
79) Pyrene-d10	19.85	212	173297	20.83	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	197749	22.43	ng/ul	0.02

Target Compounds

					Qvalue
28) Naphthalene	10.95	128	34723	8.37 ng/ul	99
30) 4-Chloroaniline	10.95	127	4404	2.75 ng/ul#	1
34) 2-Methylnaphthalene	12.55	142	8276	2.61 ng/ul	96
35) 1-Methylnaphthalene	12.77	142	5839	1.92 ng/ul#	94
45) Dimethylphthalate	14.16	163	17379	3.53 ng/ul	99
50) Acenaphthene	14.78	153	86135	21.46 ng/ul	99
54) Dibenzofuran	15.11	168	55307	9.26 ng/ul	97
59) Fluorene	15.76	166	83555	17.43 ng/ul	96
70) Phenanthrene	17.51	178	1258196	161.37 ng/ul	95
72) Anthracene	17.59	178	266940	33.75 ng/ul	98
75) Carbazole	17.87	167	160376	24.14 ng/ul	99
77) Fluoranthene	19.53	202	2190896	240.43 ng/ul#	93
80) Pyrene	19.89	202	1966868	182.02 ng/ul#	93
83) Benzo(a)anthracene	21.73	228	1195923	114.80 ng/ul	93
85) Chrysene	21.73	228	1186414	120.92 ng/ul	96
88) Benzo(b)fluoranthene	24.00	252	1696164	159.45 ng/ul	94
89) Benzo(k)fluoranthene	24.05	252	525567	51.49 ng/ul	97
91) Benzo(a)pyrene	24.89	252	1212857	120.28 ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.79	276	954394	79.48 ng/ul	95
93) Dibenzo(a,h)anthracene	28.98	278	36420	3.65 ng/ul	95
94) Benzo(g,h,i)perylene	29.97	276	871897	88.57 ng/ul	99

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Misc : MED LEVEL
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Instrument :
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Quant Time: Dec 23 07:41:18 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 23 07:35:59 2015
Response via : Initial Calibration

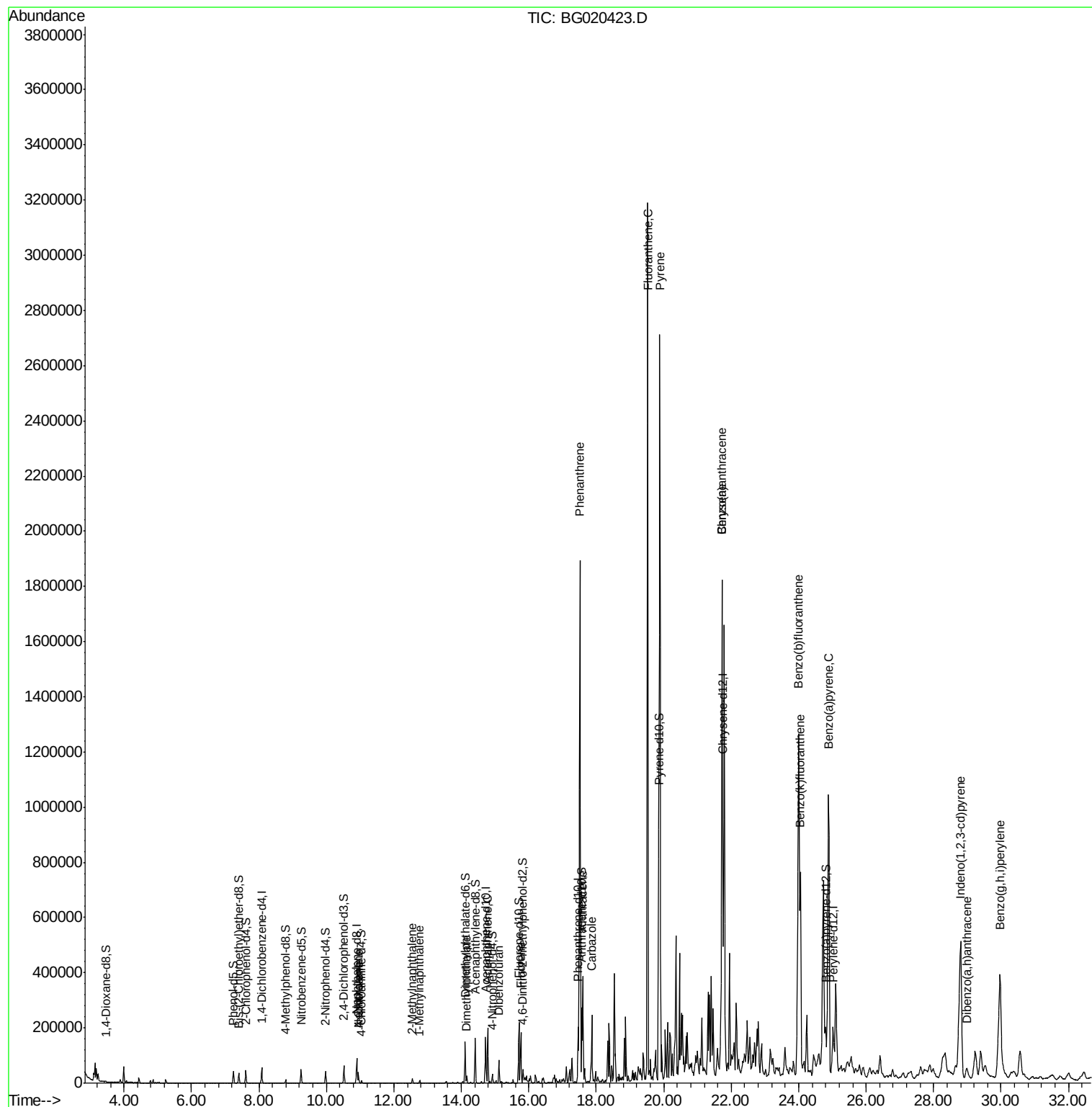
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

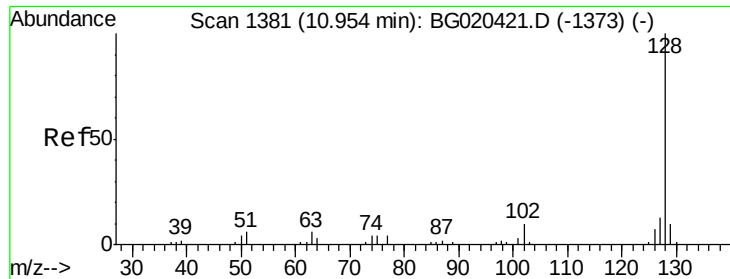
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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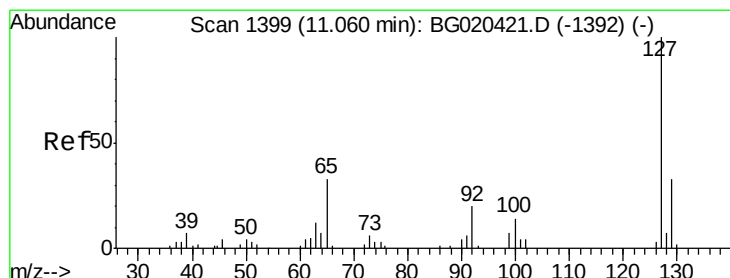
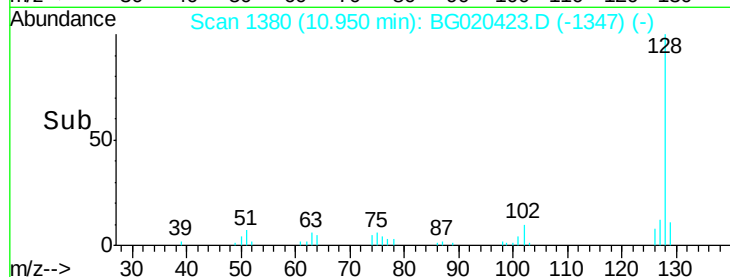
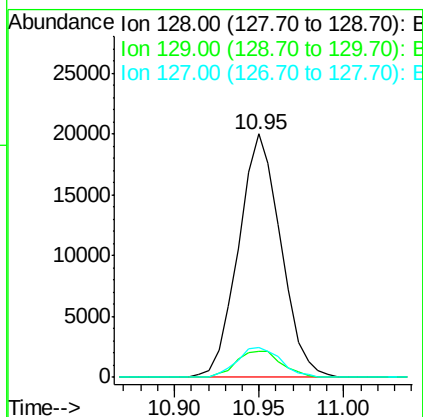
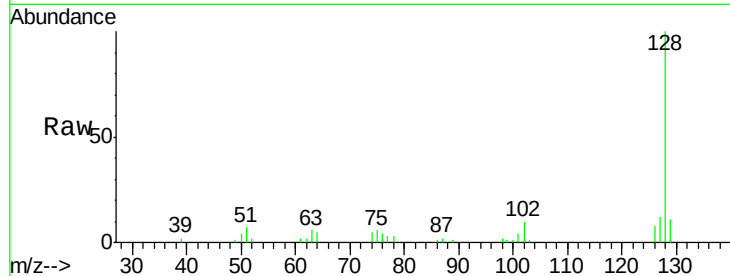




#28
Naphthalene
Concen: 8.37 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. -0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

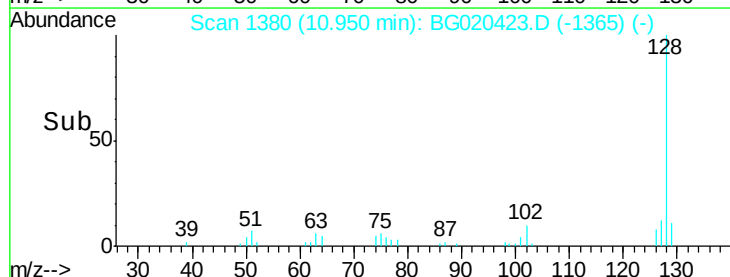
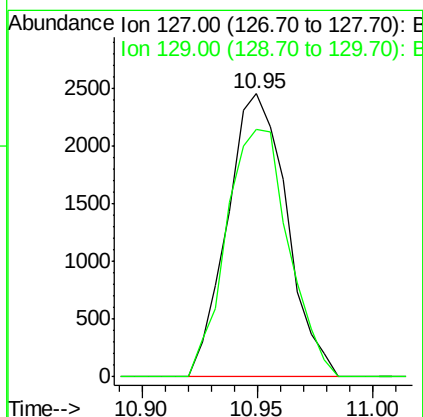
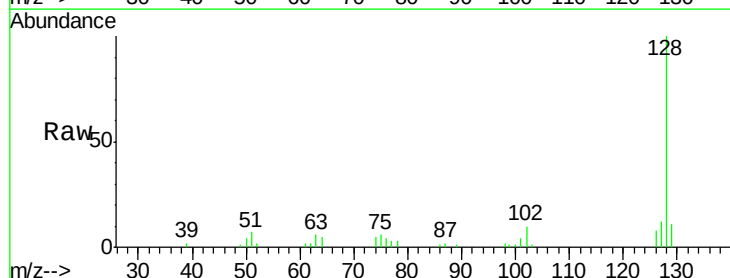
Instrument :
BNA_G
ClientSampleId :
E43M4

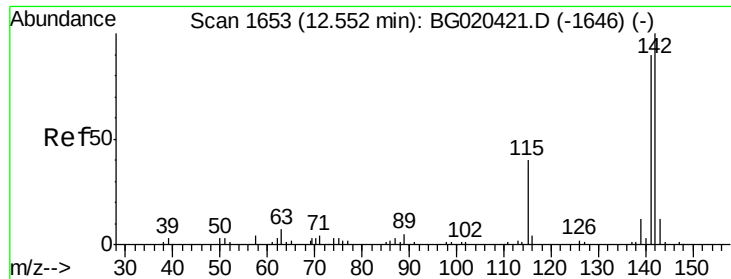
Tgt Ion:128 Resp: 34723
Ion Ratio Lower Upper
128 100
129 10.7 8.6 12.8
127 12.3 10.1 15.1



#30
4-Chloroaniline
Concen: 2.75 ng/ul
RT: 10.95 min Scan# 1380
Delta R.T. -0.11 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion:127 Resp: 4404
Ion Ratio Lower Upper
127 100
129 87.6 25.7 38.5#

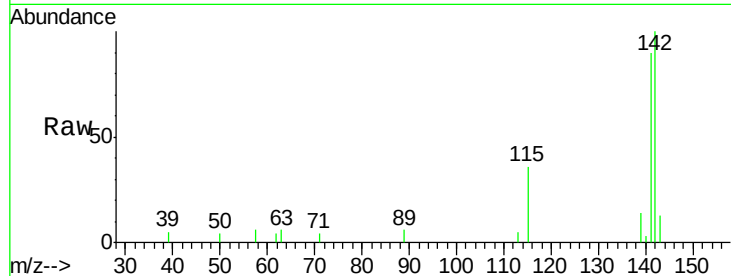




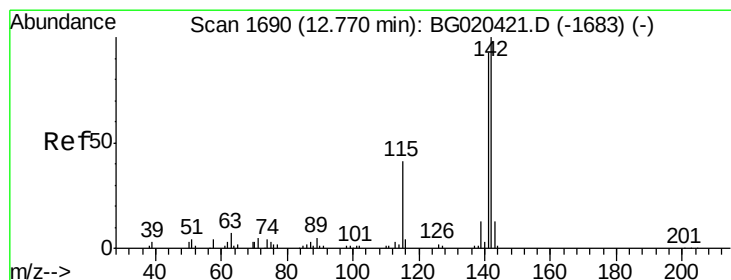
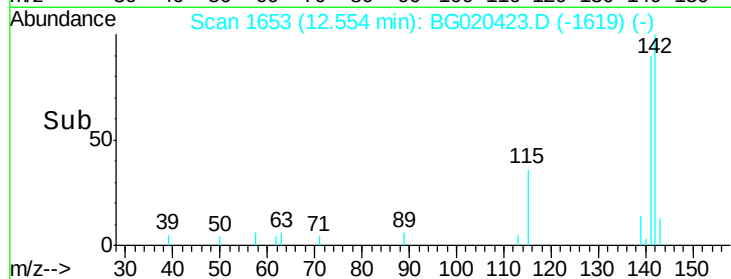
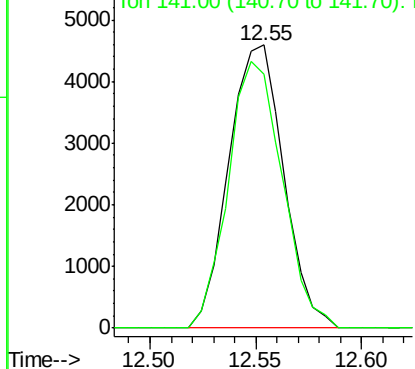
#34
2-Methylnaphthalene
Concen: 2.61 ng/ul
RT: 12.55 min Scan# 1653
Delta R.T. 0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Instrument :
BNA_G
ClientSampleId :
E43M4

Tgt Ion:142 Resp: 8276
Ion Ratio Lower Upper
142 100
141 89.8 74.9 112.3

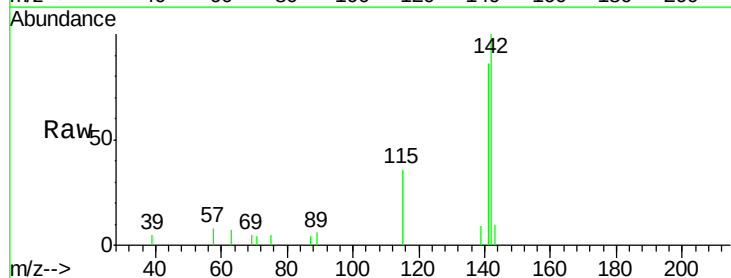


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

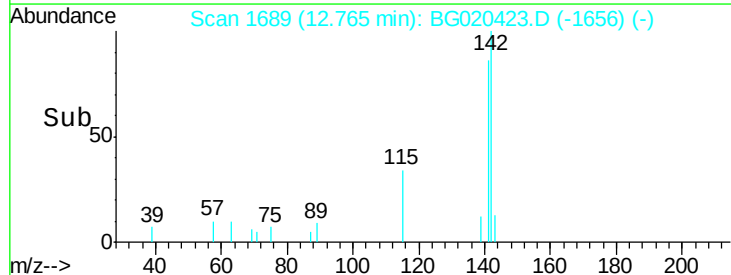
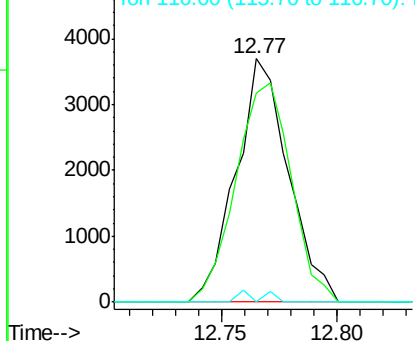


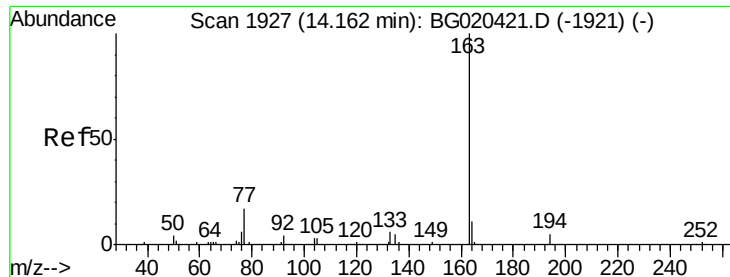
#35
1-Methylnaphthalene
Concen: 1.92 ng/ul
RT: 12.77 min Scan# 1689
Delta R.T. -0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion:142 Resp: 5839
Ion Ratio Lower Upper
142 100
141 86.1 73.0 109.6
116 0.0 3.0 4.6#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





#45

Dimethylphthalate

Concen: 3.53 ng/ul

RT: 14.16 min Scan# 1926

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

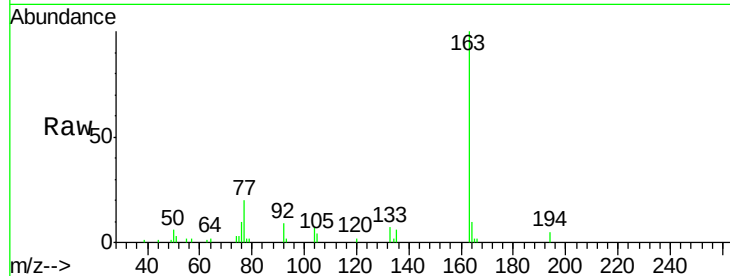
Tgt Ion:163 Resp: 17379

Ion Ratio Lower Upper

163 100

194 4.9 3.5 5.3

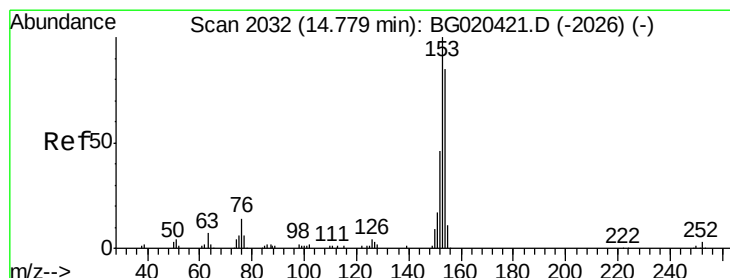
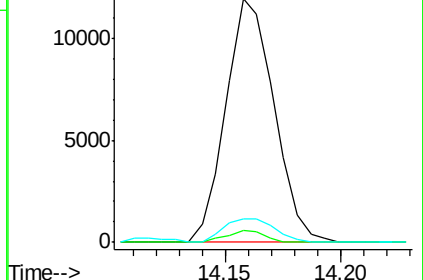
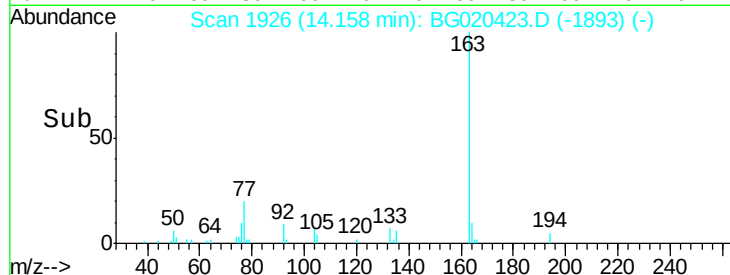
164 9.8 7.7 11.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

Acenaphthene

Concen: 21.46 ng/ul

RT: 14.78 min Scan# 2032

Delta R.T. 0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

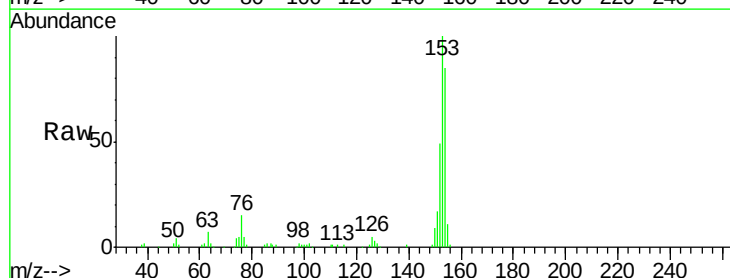
Tgt Ion:153 Resp: 86135

Ion Ratio Lower Upper

153 100

152 48.5 37.6 56.4

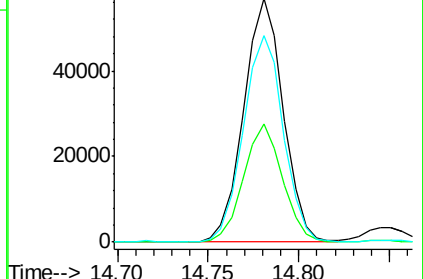
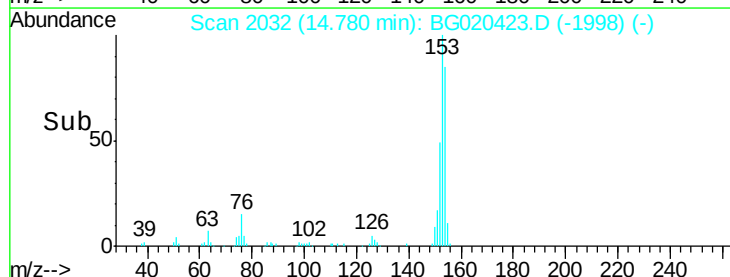
154 85.0 67.9 101.9

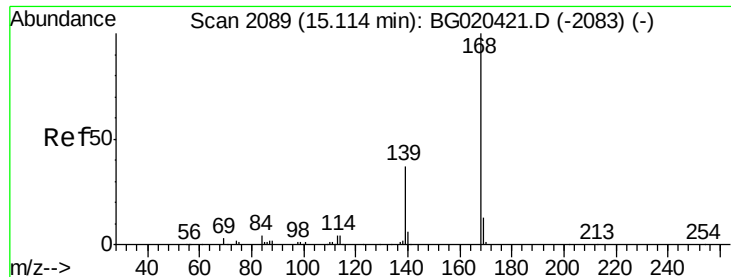


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 9.26 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

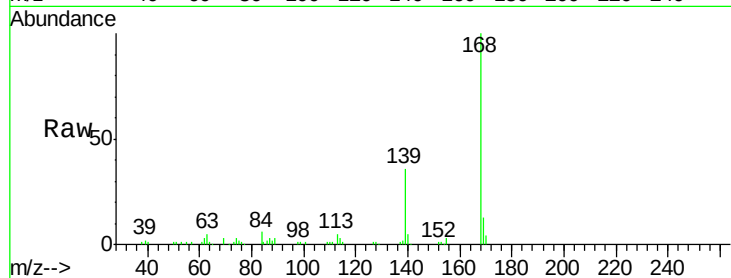
E43M4

Tgt Ion:168 Resp: 55307

Ion Ratio Lower Upper

168 100

139 36.1 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.11

40000

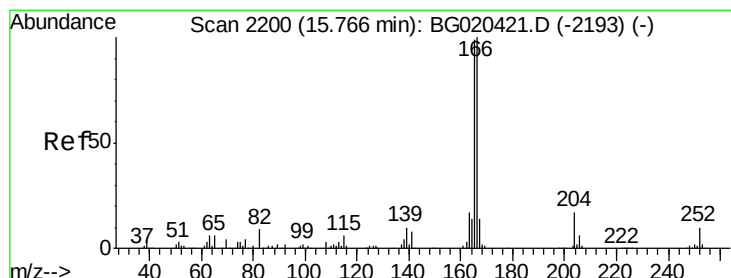
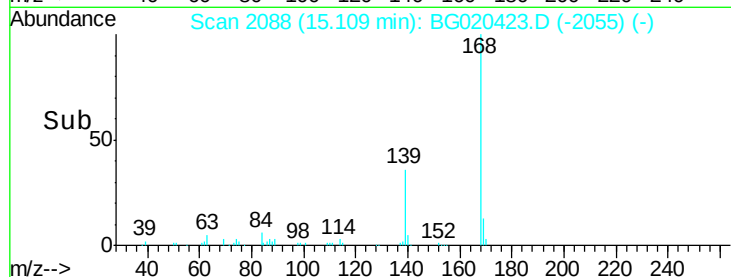
30000

20000

10000

0

Time--> 15.05 15.10 15.15



#59

Fluorene

Concen: 17.43 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

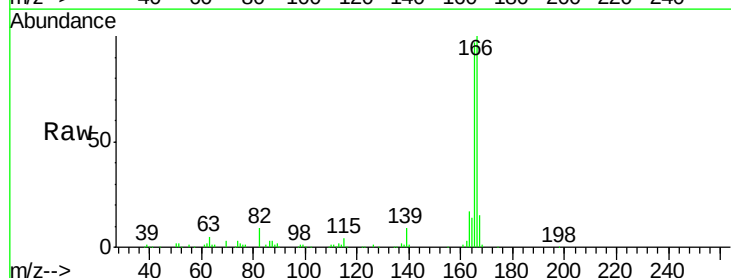
Tgt Ion:166 Resp: 83555

Ion Ratio Lower Upper

166 100

165 96.9 81.4 122.0

167 14.7 11.2 16.8



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

15.76

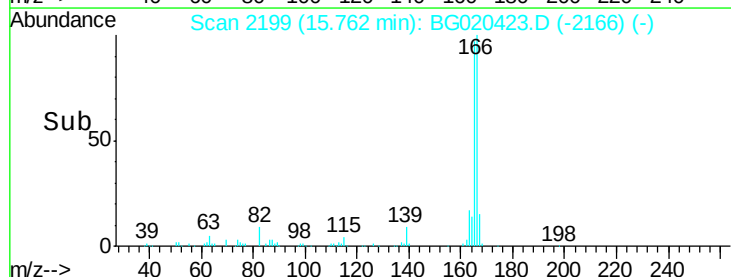
60000

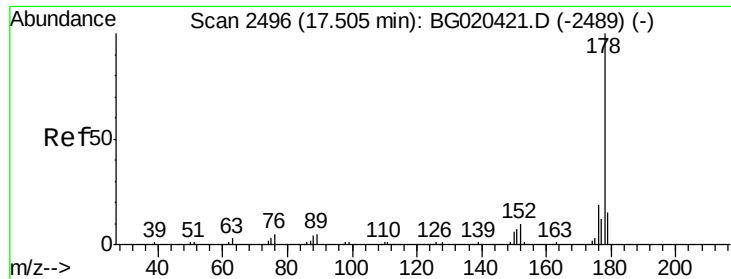
40000

20000

0

Time--> 15.70 15.75 15.80

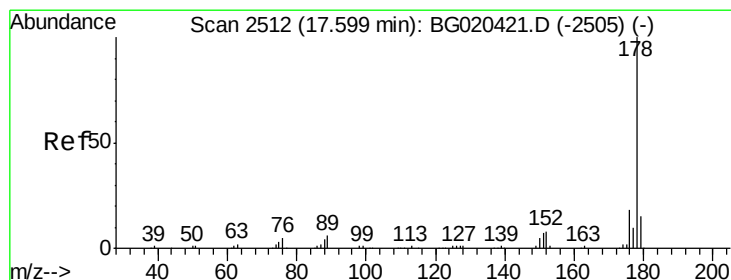
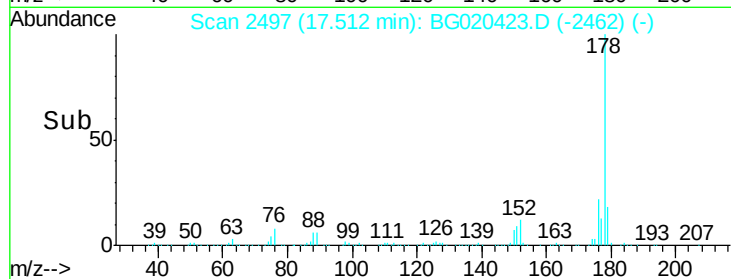
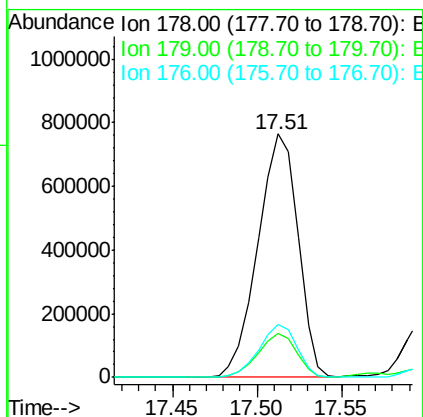
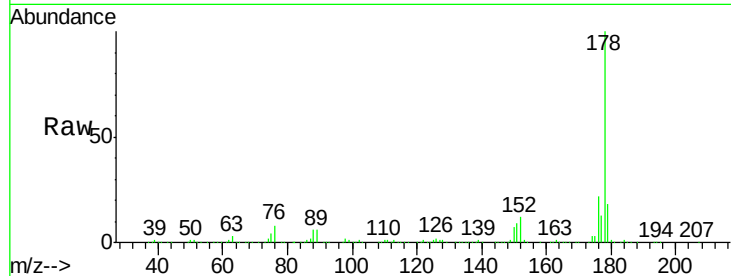




#70
Phenanthrene
Concen: 161.37 ng/ul
RT: 17.51 min Scan# 2497
Delta R.T. 0.01 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

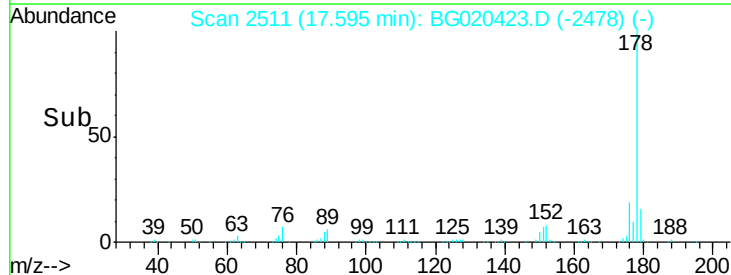
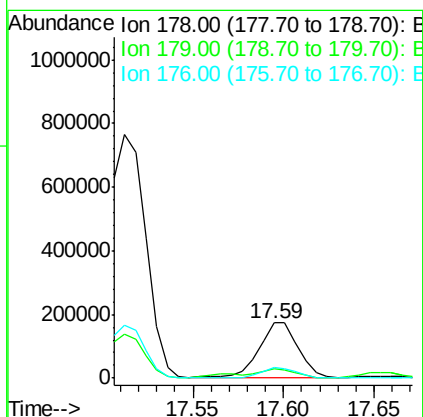
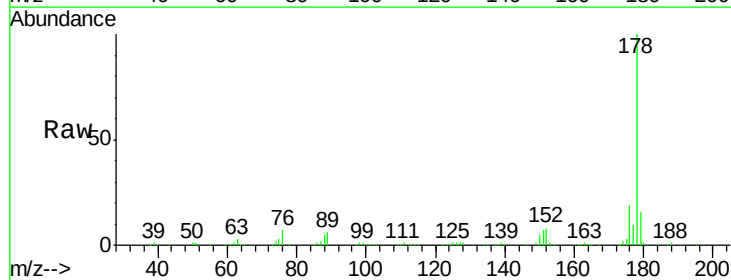
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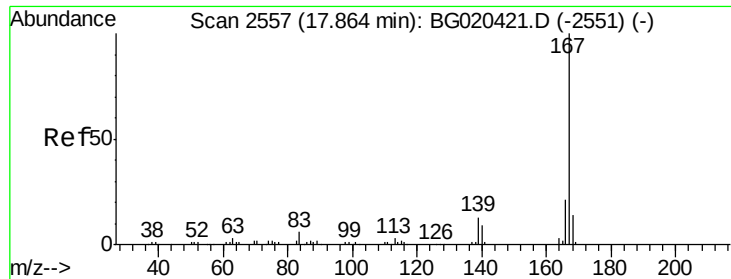
Tgt Ion:178 Resp: 1258196
Ion Ratio Lower Upper
178 100
179 18.2 12.9 19.3
176 21.7 15.3 22.9



#72
Anthracene
Concen: 33.75 ng/ul
RT: 17.59 min Scan# 2511
Delta R.T. -0.00 min
Lab File: BG020423.D
Acq: 23 Dec 2015 1:32

Tgt Ion:178 Resp: 266940
Ion Ratio Lower Upper
178 100
179 16.2 12.3 18.5
176 18.9 14.3 21.5





#75

Carbazole

Concen: 24.14 ng/ul

RT: 17.87 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

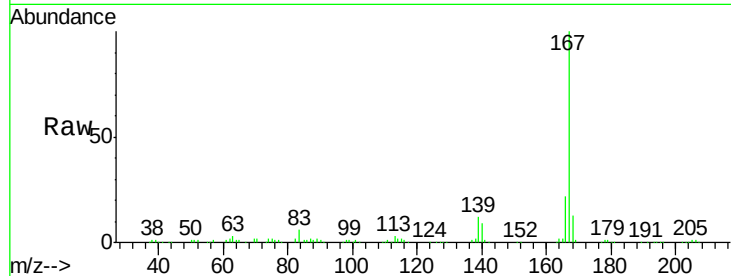
Tgt Ion:167 Resp: 160376

Ion Ratio Lower Upper

167 100

166 21.9 17.0 25.6

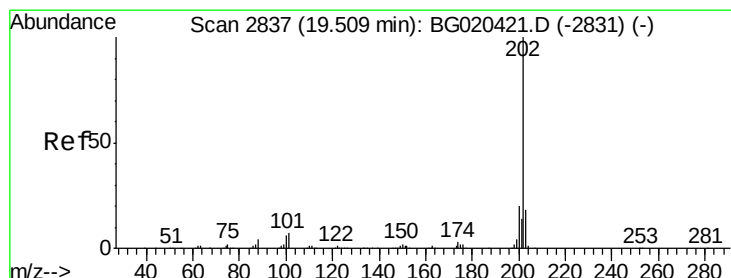
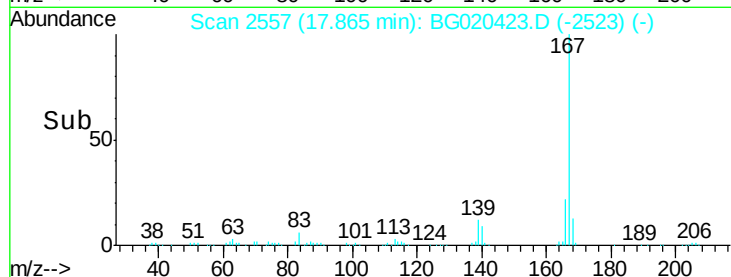
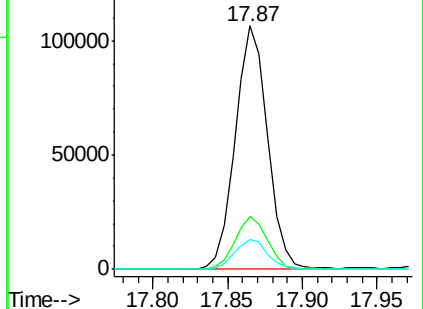
139 12.1 10.1 15.1



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



#77

Fluoranthene

Concen: 240.43 ng/ul

RT: 19.53 min Scan# 2840

Delta R.T. 0.02 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

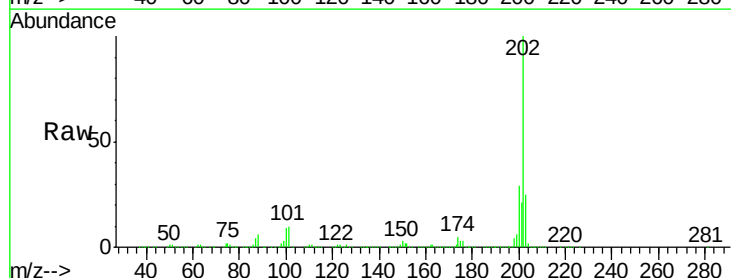
Tgt Ion:202 Resp: 2190896

Ion Ratio Lower Upper

202 100

101 10.4 6.2 9.4#

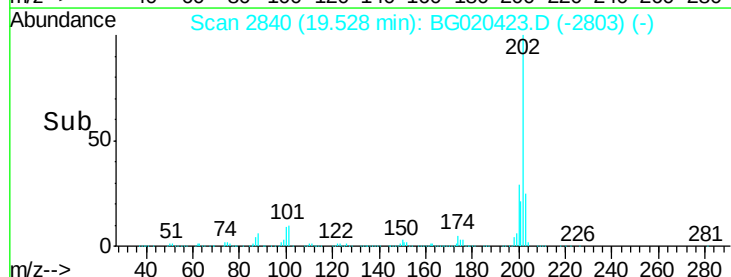
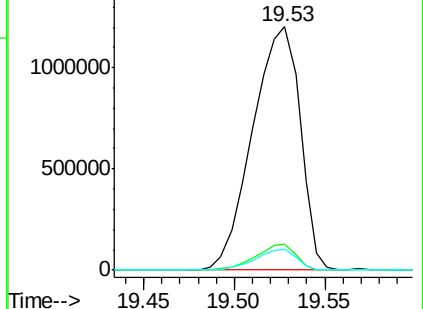
100 8.6 5.1 7.7#

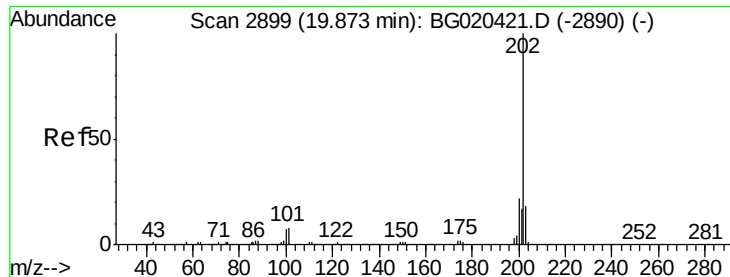


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 182.02 ng/ul

RT: 19.89 min Scan# 2901

Delta R.T. 0.01 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampled :

E43M4

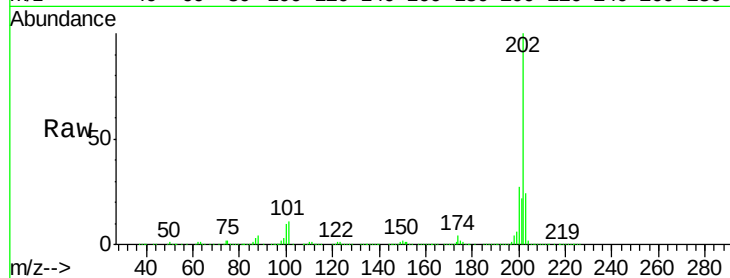
Tgt Ion:202 Resp: 1966868

Ion Ratio Lower Upper

202 100

101 11.3 7.0 10.4#

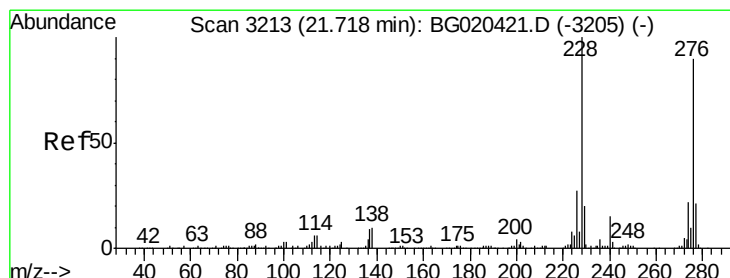
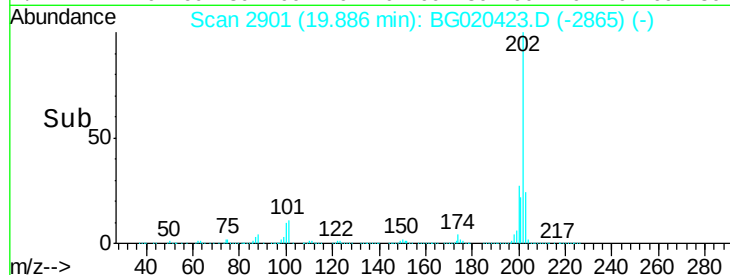
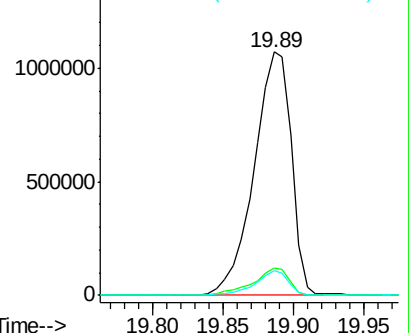
100 10.1 6.4 9.6#



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): E



#83

Benzo(a)anthracene

Concen: 114.80 ng/ul

RT: 21.73 min Scan# 3214

Delta R.T. 0.01 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

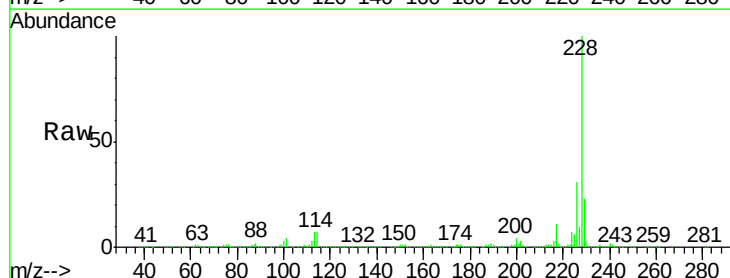
Tgt Ion:228 Resp: 1195923

Ion Ratio Lower Upper

228 100

229 23.4 15.8 23.8

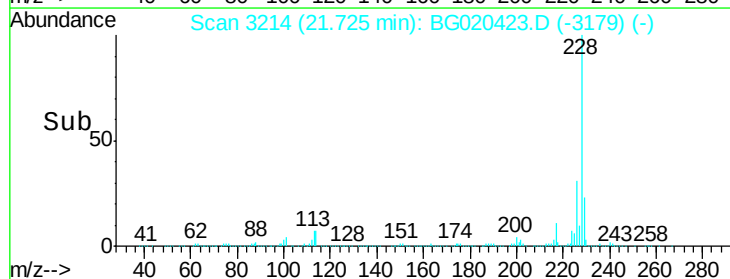
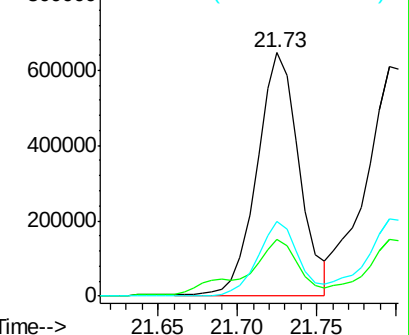
226 30.7 21.8 32.6

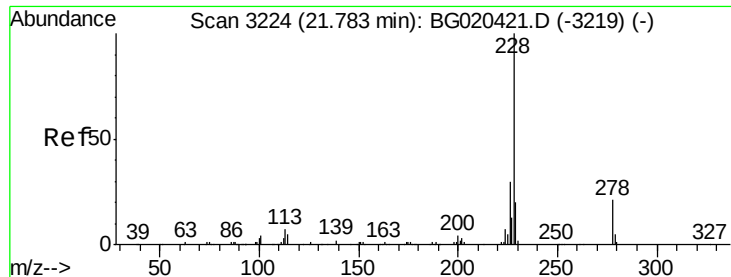


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 120.92 ng/ul

RT: 21.73 min Scan# 3214

Delta R.T. -0.06 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

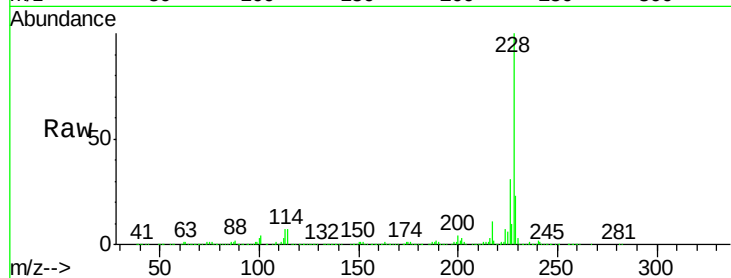
Tgt Ion:228 Resp: 1186414

Ion Ratio Lower Upper

228 100

226 30.7 23.9 35.9

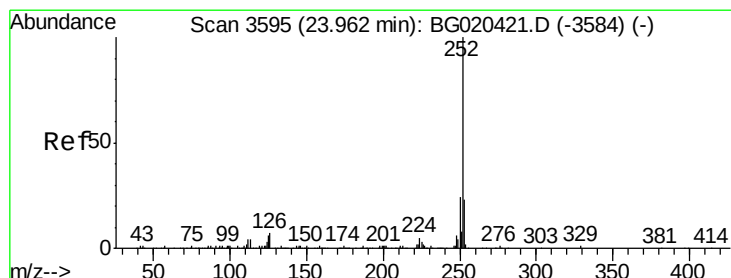
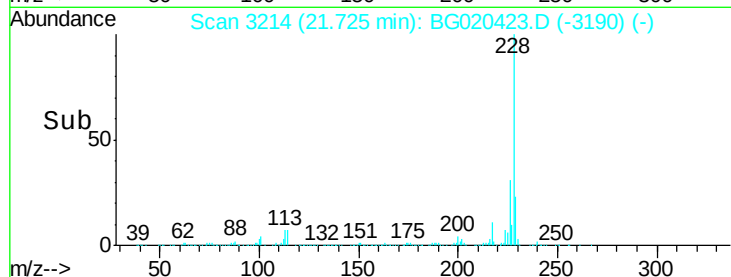
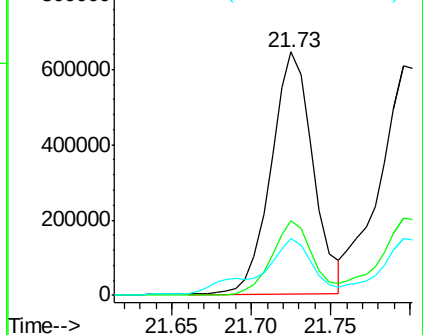
229 23.4 15.6 23.4



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



#88

Benzo(b)fluoranthene

Concen: 159.45 ng/ul

RT: 24.00 min Scan# 3601

Delta R.T. 0.04 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

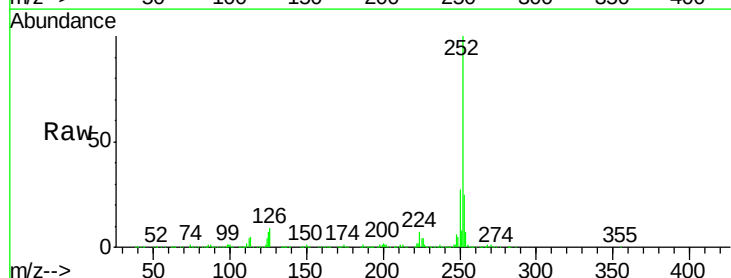
Tgt Ion:252 Resp: 1696164

Ion Ratio Lower Upper

252 100

253 24.6 16.7 25.1

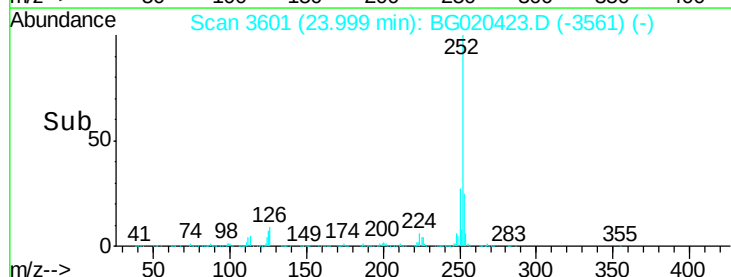
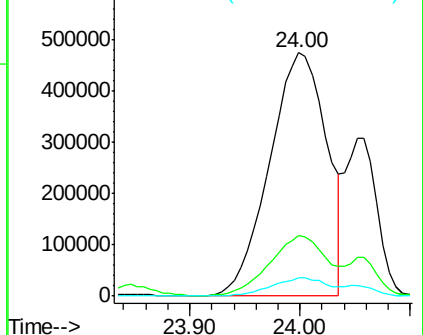
125 7.4 6.2 9.2

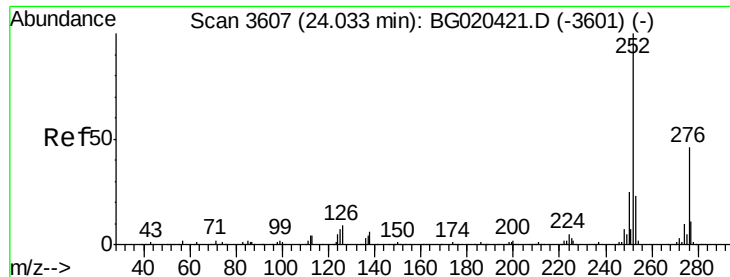


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 51.49 ng/ul

RT: 24.05 min Scan# 3610

Delta R.T. 0.02 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

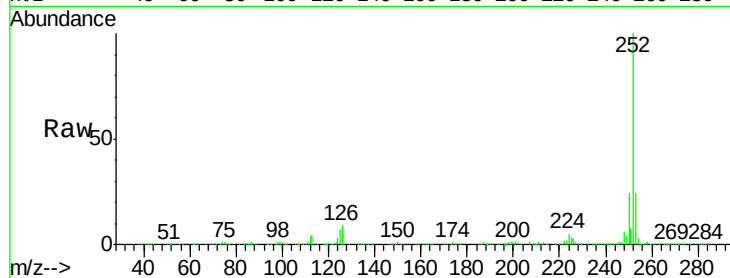
Tgt Ion:252 Resp: 525567

Ion Ratio Lower Upper

252 100

253 24.5 17.9 26.9

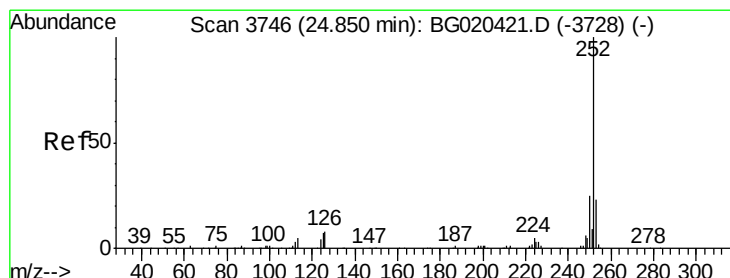
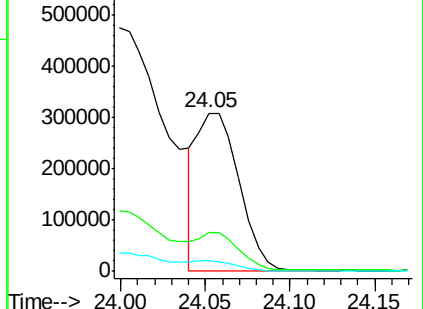
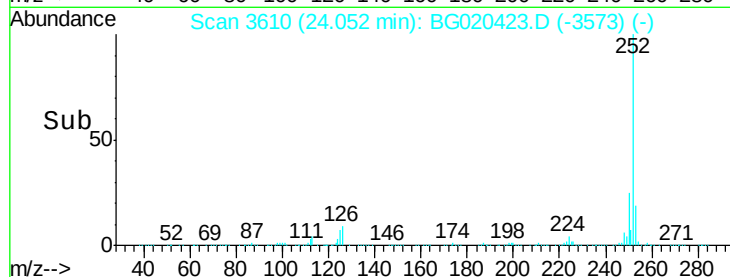
125 7.1 5.8 8.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 120.28 ng/ul

RT: 24.89 min Scan# 3753

Delta R.T. 0.04 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

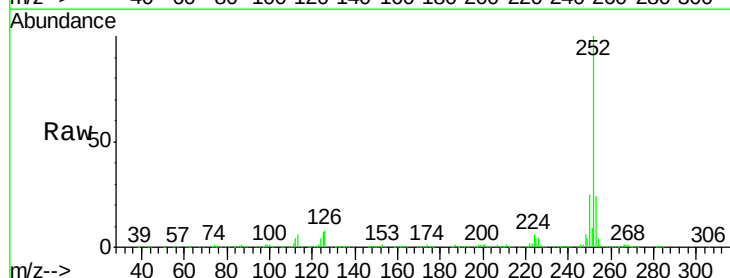
Tgt Ion:252 Resp: 1212857

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.4

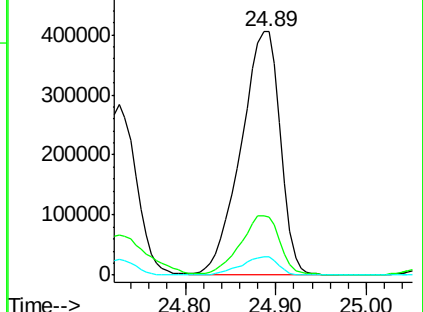
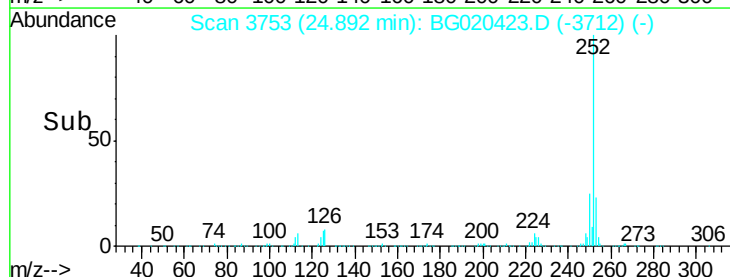
125 7.3 6.2 9.4

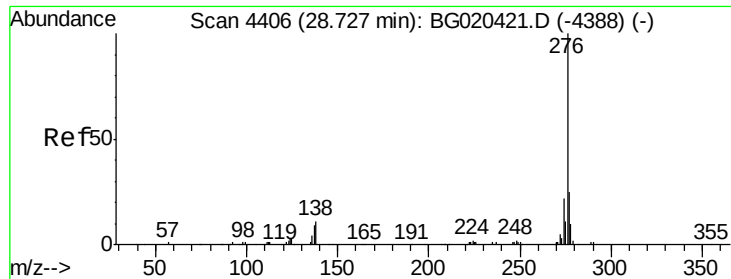


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 79.48 ng/ul

RT: 28.79 min Scan# 4416

Delta R.T. 0.06 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

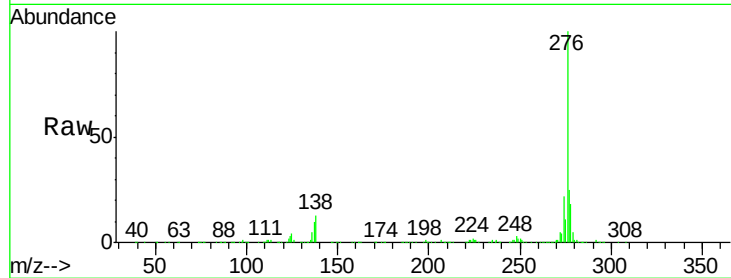
Tgt Ion:276 Resp: 954394

Ion Ratio Lower Upper

276 100

138 12.9 11.4 17.0

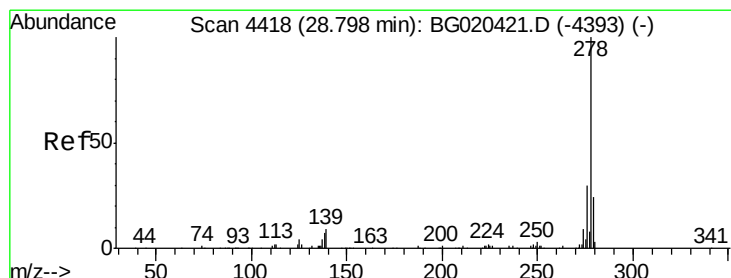
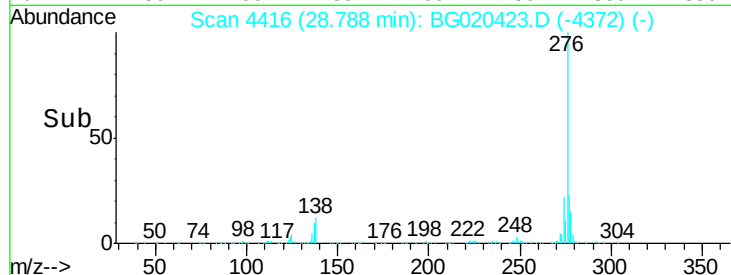
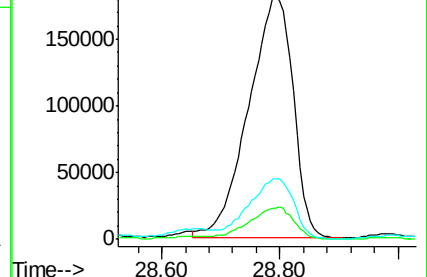
277 24.7 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93

Dibenzo(a,h)anthracene

Concen: 3.65 ng/ul

RT: 28.98 min Scan# 4449

Delta R.T. 0.18 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

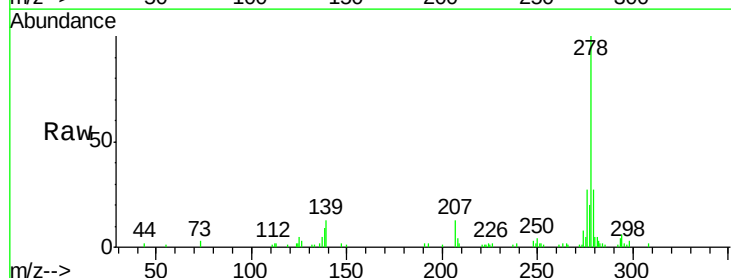
Tgt Ion:278 Resp: 36420

Ion Ratio Lower Upper

278 100

139 12.5 9.4 14.2

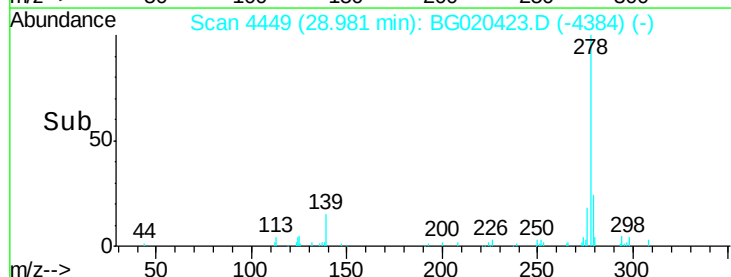
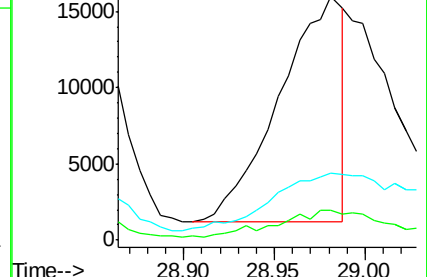
279 27.5 19.4 29.0

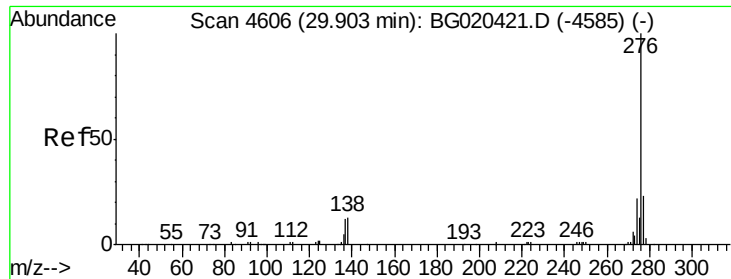


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 88.57 ng/ul

RT: 29.97 min Scan# 4617

Delta R.T. 0.07 min

Lab File: BG020423.D

Acq: 23 Dec 2015 1:32

Instrument :

BNA_G

ClientSampleId :

E43M4

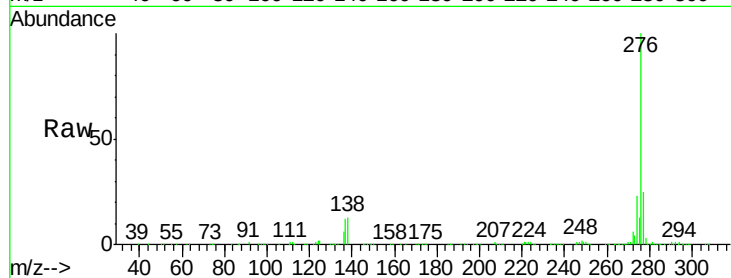
Tgt Ion:276 Resp: 871897

Ion Ratio Lower Upper

276 100

138 12.9 10.8 16.2

277 24.7 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

