

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
 Data File : BG020536.D
 Acq On : 26 Dec 2015 12:13
 Operator : UM/SJ
 Sample : G4802-15
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D90

Quant Time: Dec 28 01:21:44 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 01:15:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	18383	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	79932	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	57892	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	142649	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	179820	20.00	ng/ul	0.01
86) Perylene-d12	25.01	264	178820	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	1047	3.14	ng/uL	0.00
5) Phenol-d5	7.24	99	23326	15.81	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.39	67	15078	17.25	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	19830	17.52	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	21089	16.99	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	10628	16.96	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	12654	17.76	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	22962	16.66	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	15505	9.84	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	75244	15.77	ng/ul	0.00
47) Acenaphthylene-d8	14.40	160	96812	17.51	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	7787	9.79	ng/ul	0.00
58) Fluorene-d10	15.70	176	75651	17.53	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	8524	9.02	ng/ul	0.01
71) Anthracene-d10	17.56	188	122310	18.31	ng/ul	0.00
79) Pyrene-d10	19.84	212	142733	18.33	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	164889	18.24	ng/ul	0.04

Target Compounds

					Qvalue
28) Naphthalene	10.94	128	29254	6.88 ng/ul	98
30) 4-Chloroaniline	10.94	127	3995	2.52 ng/ul#	11
34) 2-Methylnaphthalene	12.54	142	17741	5.64 ng/ul	93
35) 1-Methylnaphthalene	12.76	142	16869	5.65 ng/ul#	99
41) 1,1'-Biphenyl	13.55	154	5364	1.20 ng/ul#	92
45) Dimethylphthalate	14.16	163	25747	5.31 ng/ul	99
48) Acenaphthylene	14.44	152	60524	10.42 ng/ul	100
50) Acenaphthene	14.77	153	21568	5.49 ng/ul	99
59) Fluorene	15.76	166	27691	5.85 ng/ul	95
70) Phenanthrene	17.51	178	512366	64.55 ng/ul	99
72) Anthracene	17.59	178	104681	12.90 ng/ul	100
75) Carbazole	17.86	167	7182	1.05 ng/ul#	93
77) Fluoranthene	19.52	202	790680	79.22 ng/ul	99
80) Pyrene	19.88	202	1256510	123.56 ng/ul	98
83) Benzo(a)anthracene	21.72	228	723090	68.47 ng/ul#	89
85) Chrysene	21.79	228	885672	88.05 ng/ul	93
88) Benzo(b)fluoranthene	23.99	252	923694	86.06 ng/ul	96
89) Benzo(k)fluoranthene	23.99	252	923694	89.03 ng/ul	99
91) Benzo(a)pyrene	24.88	252	710368	68.86 ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.76	276	226603	18.34 ng/ul	96
93) Dibenzo(a,h)anthracene	28.80	278	122976	11.99 ng/ul	96
94) Benzo(g,h,i)perylene	29.95	276	399476	39.36 ng/ul	98

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Instrument :
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G9D90

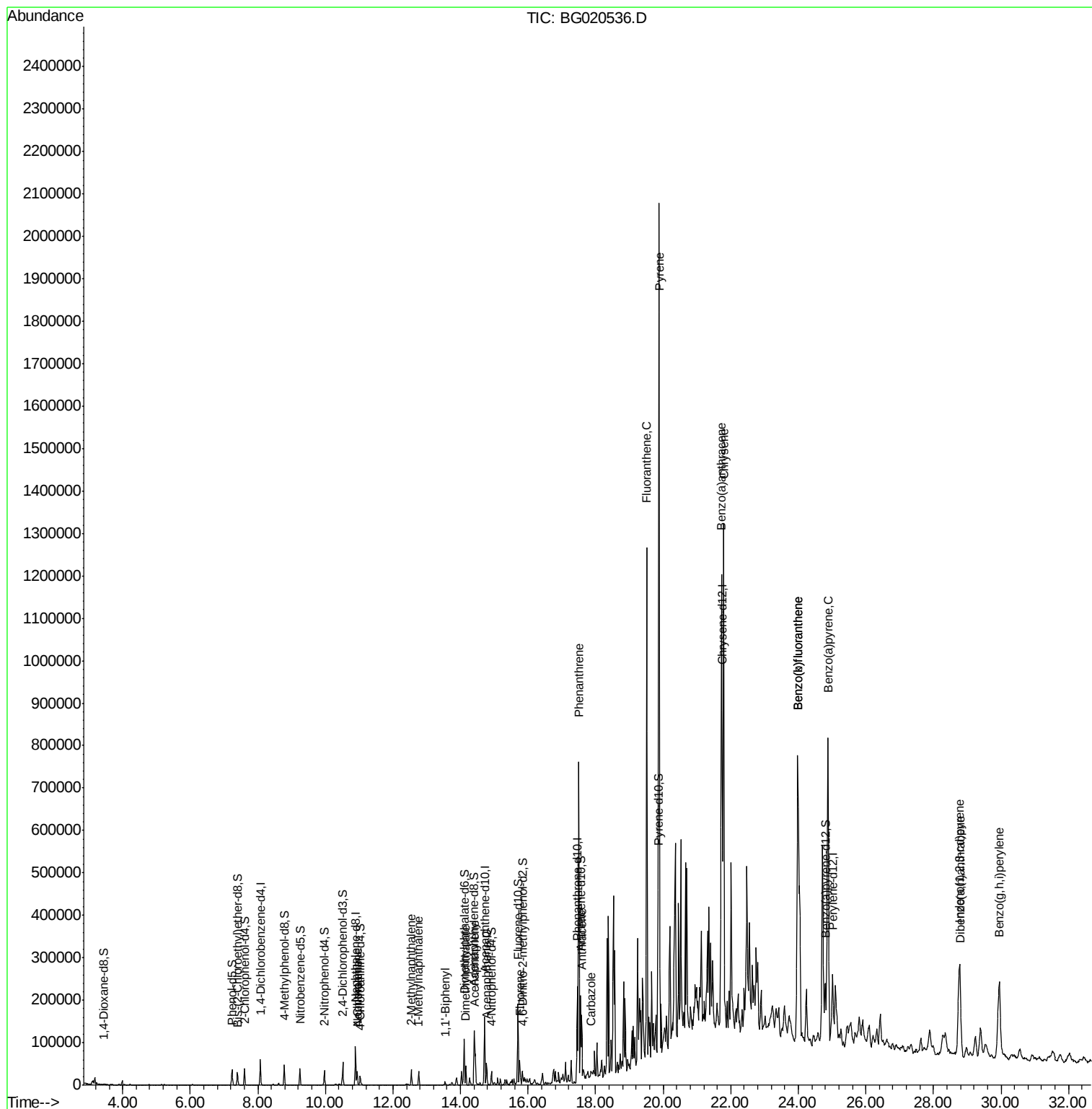
Quant Time: Dec 28 01:21:44 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration

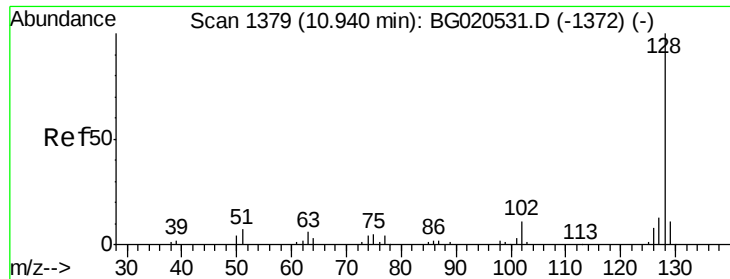
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG020536.D  
Acq On    : 26 Dec 2015   12:13  
Operator  : UM/SJ  
Sample    : G4802-15  
Misc      :  
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#28

Naphthalene

Concen: 6.88 ng/ul

RT: 10.94 min Scan# 1379

Delta R.T. 0.00 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

ClientSampleId :

G9D90

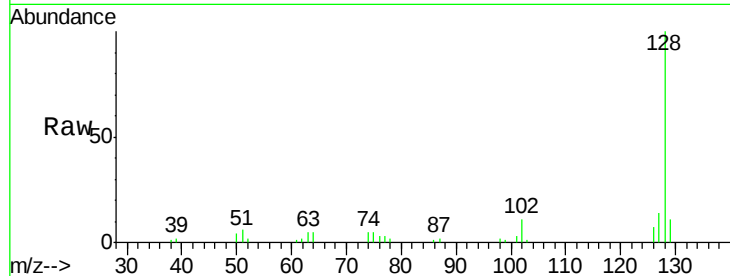
Tgt Ion:128 Resp: 29254

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

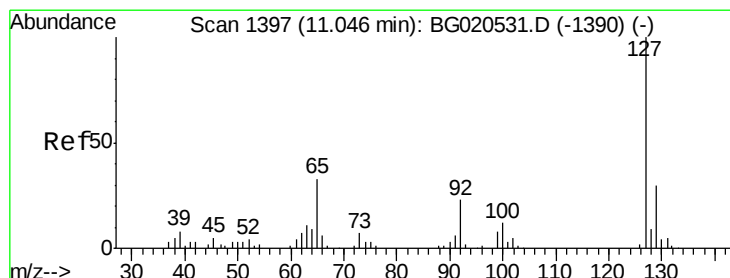
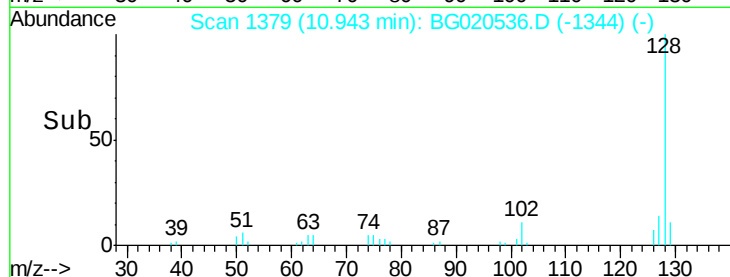
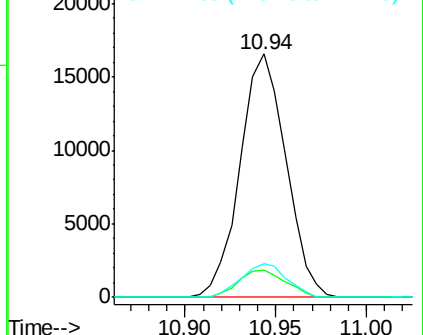
127 13.7 10.1 15.1



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: 2.52 ng/ul

RT: 10.94 min Scan# 1379

Delta R.T. -0.10 min

Lab File: BG020536.D

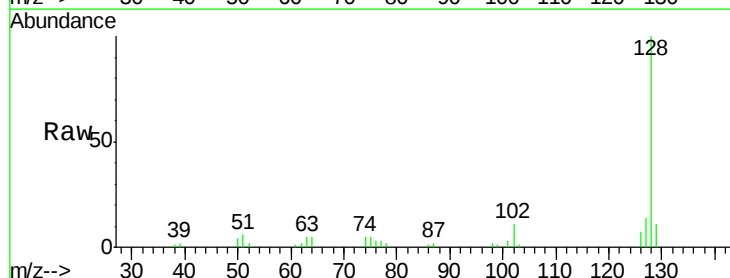
Acq: 26 Dec 2015 12:13

Tgt Ion:127 Resp: 3995

Ion Ratio Lower Upper

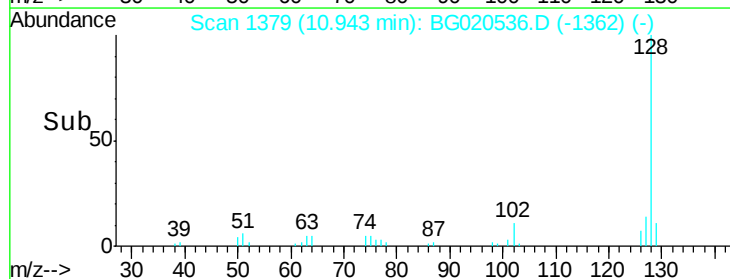
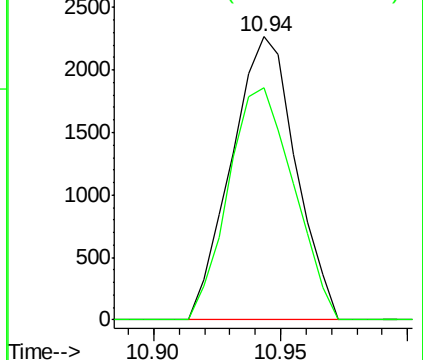
127 100

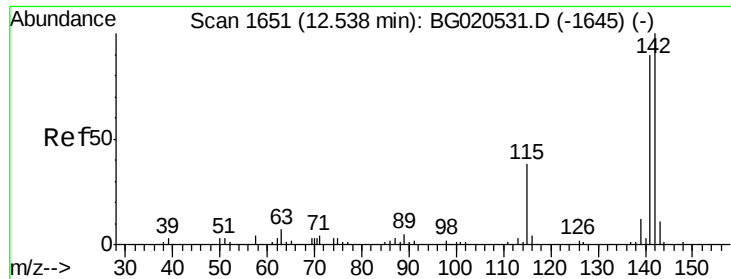
129 82.0 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

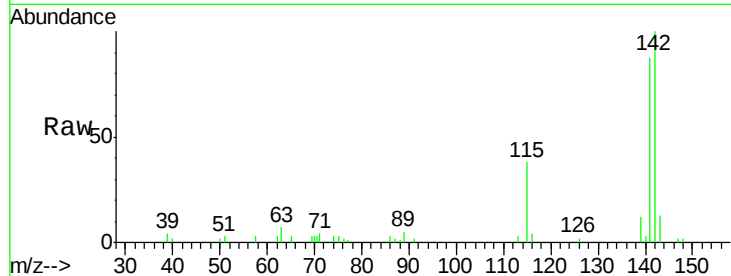




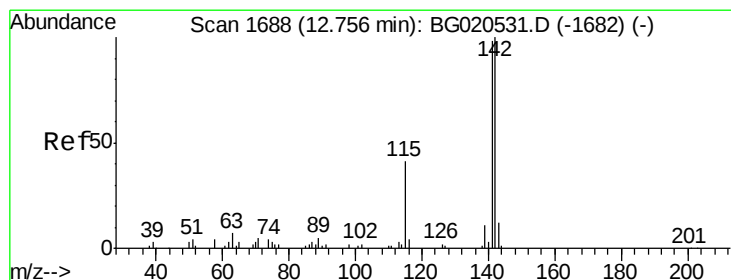
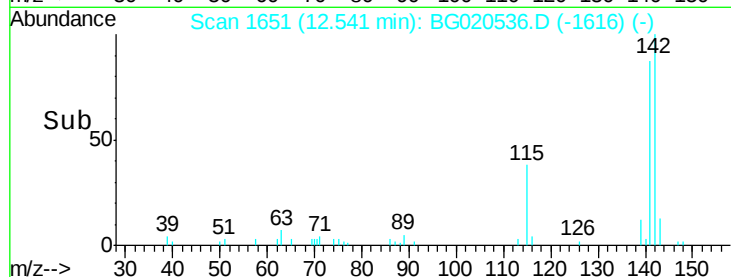
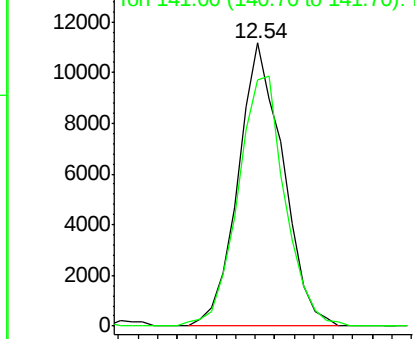
#34
2-Methylnaphthalene
Concen: 5.64 ng/ul
RT: 12.54 min Scan# 1651
Delta R.T. 0.00 min
Lab File: BG020536.D
Acq: 26 Dec 2015 12:13

Instrument :
BNA_G
ClientSampleId :
G9D90

Tgt Ion:142 Resp: 17741
Ion Ratio Lower Upper
142 100
141 87.2 74.9 112.3

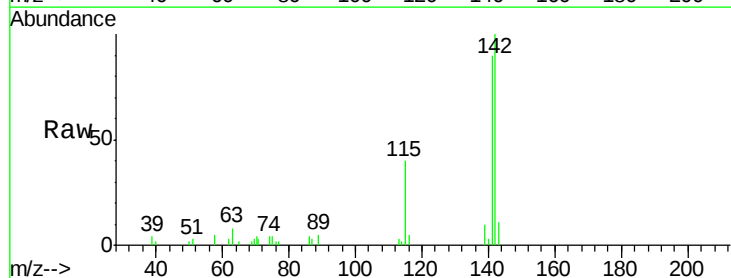


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

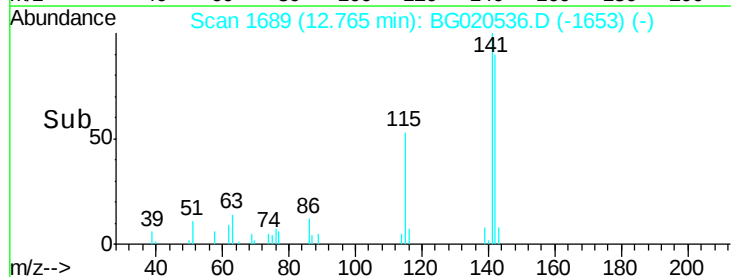
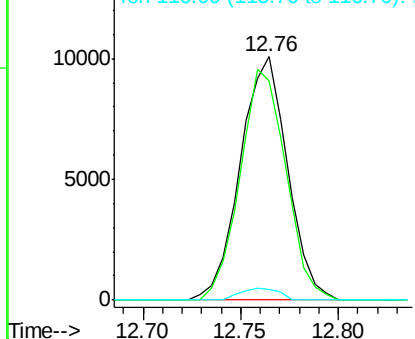


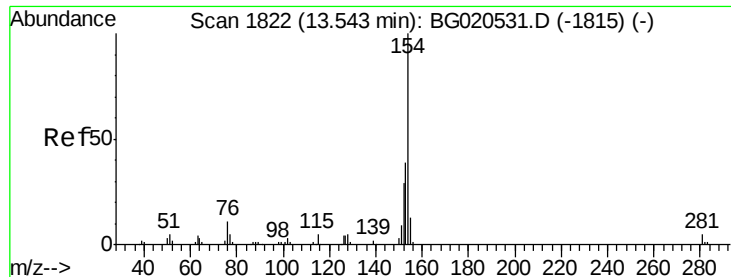
#35
1-Methylnaphthalene
Concen: 5.65 ng/ul
RT: 12.76 min Scan# 1689
Delta R.T. 0.01 min
Lab File: BG020536.D
Acq: 26 Dec 2015 12:13

Tgt Ion:142 Resp: 16869
Ion Ratio Lower Upper
142 100
141 90.2 73.0 109.6
116 4.6 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

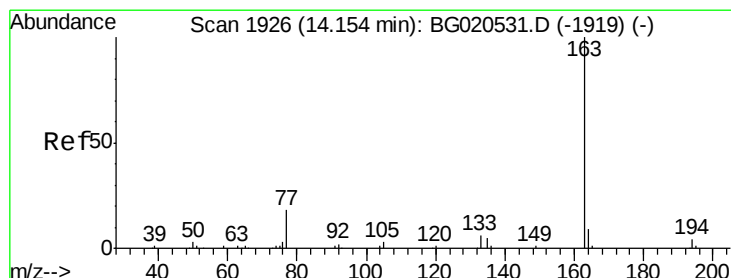
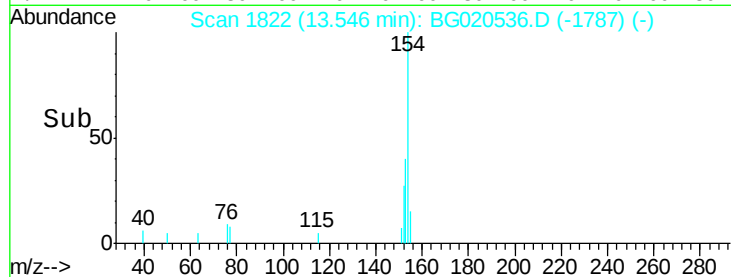
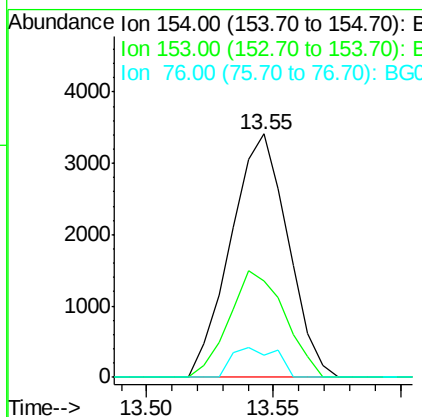
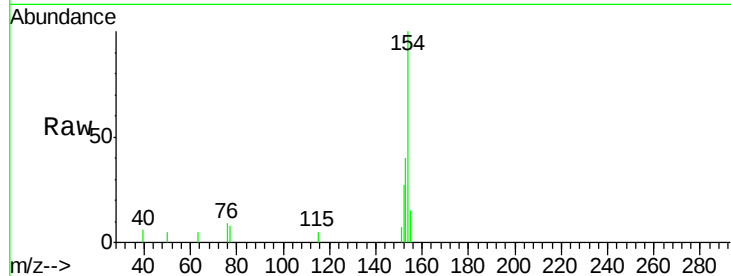




#41
 1,1'-Biphenyl
 Concen: 1.20 ng/ul
 RT: 13.55 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: BG020536.D
 Acq: 26 Dec 2015 12:13

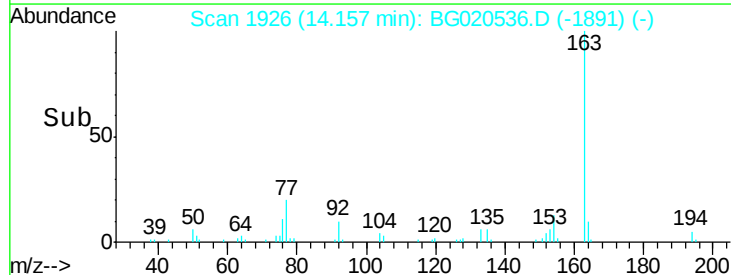
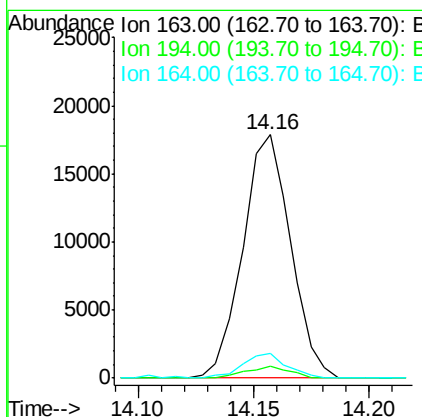
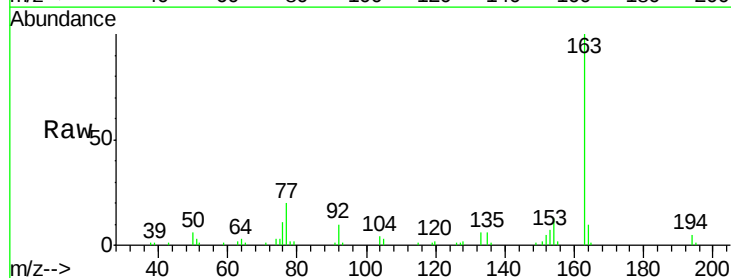
Instrument :
 BNA_G
 ClientSampleId :
 G9D90

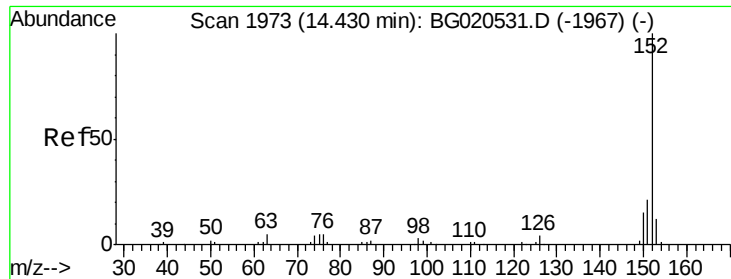
Tgt Ion:154 Resp: 5364
 Ion Ratio Lower Upper
 154 100
 153 39.7 35.5 53.3
 76 9.4 10.4 15.6#



#45
 Dimethylphthalate
 Concen: 5.31 ng/ul
 RT: 14.16 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: BG020536.D
 Acq: 26 Dec 2015 12:13

Tgt Ion:163 Resp: 25747
 Ion Ratio Lower Upper
 163 100
 194 5.1 3.5 5.3
 164 10.0 7.7 11.5





#48

Acenaphthylene

Concen: 10.42 ng/ul

RT: 14.44 min Scan# 1974

Delta R.T. 0.01 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

ClientSampleId :

G9D90

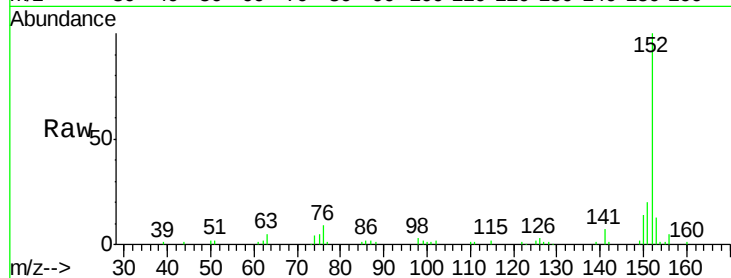
Tgt Ion:152 Resp: 60524

Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

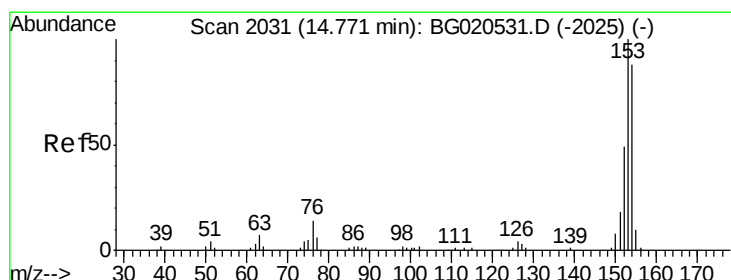
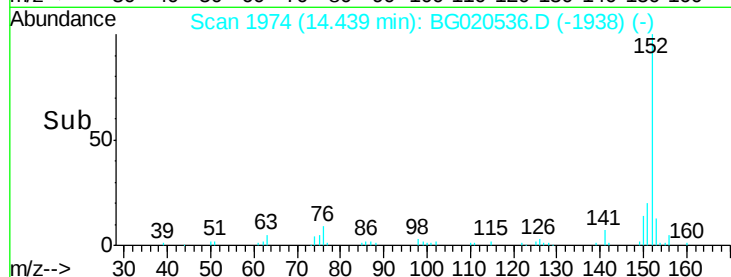
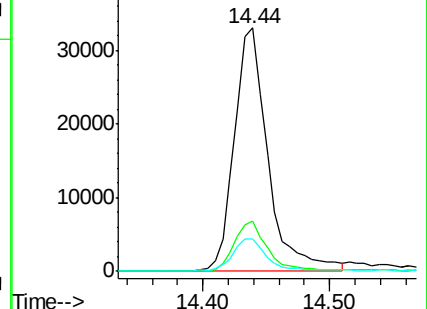
153 13.4 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 5.49 ng/ul

RT: 14.77 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

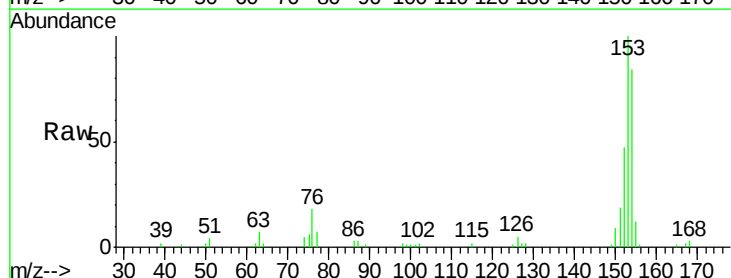
Tgt Ion:153 Resp: 21568

Ion Ratio Lower Upper

153 100

152 46.6 37.6 56.4

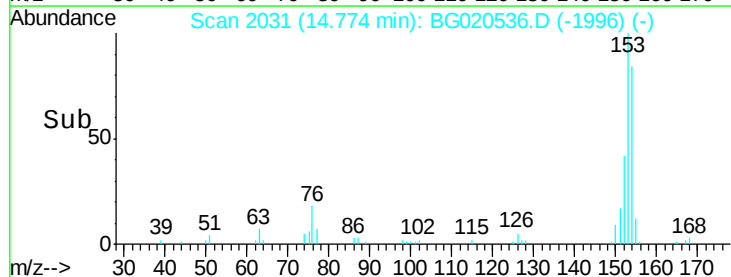
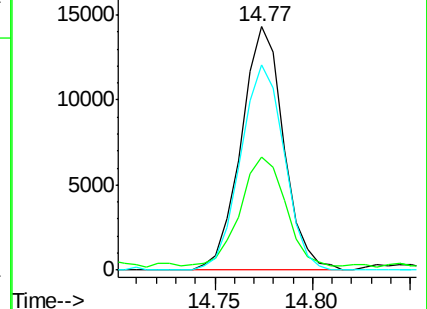
154 84.1 67.9 101.9

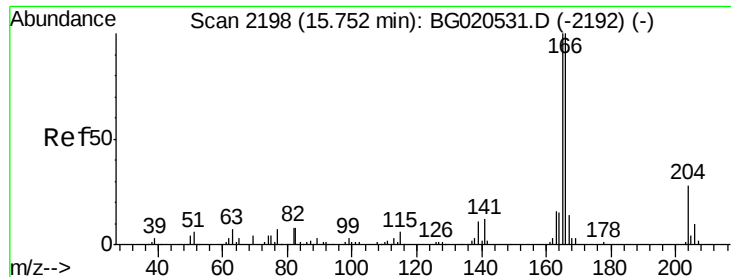


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#59

Fluorene

Concen: 5.85 ng/ul

RT: 15.76 min Scan# 2198

Delta R.T. 0.00 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

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ClientSampleId :

G9D90

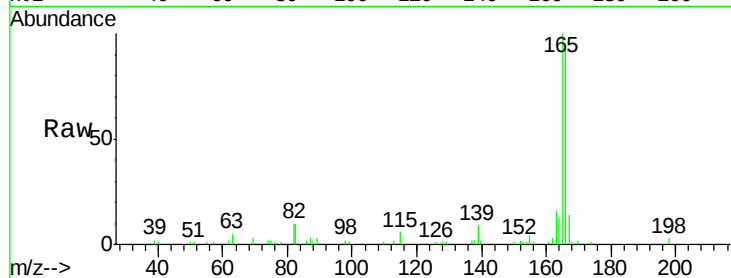
Tgt Ion:166 Resp: 27691

Ion Ratio Lower Upper

166 100

165 107.0 81.4 122.0

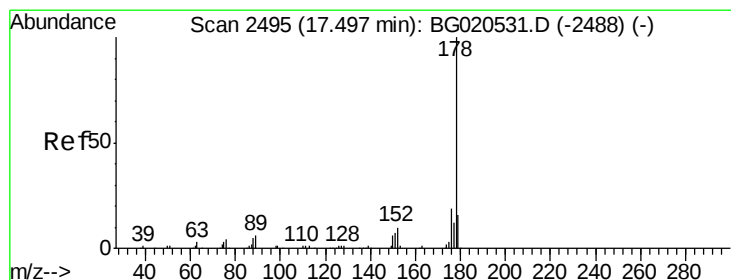
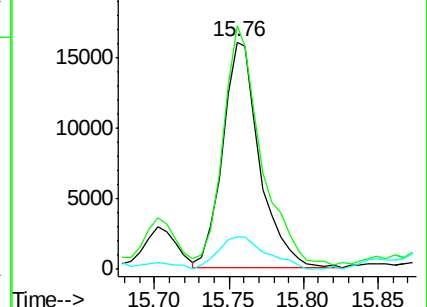
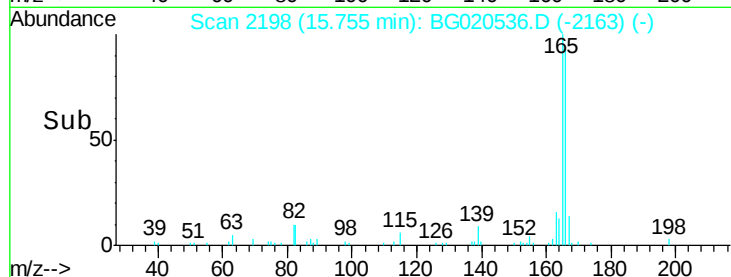
167 14.4 11.2 16.8



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



#70

Phenanthrene

Concen: 64.55 ng/ul

RT: 17.51 min Scan# 2496

Delta R.T. 0.01 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

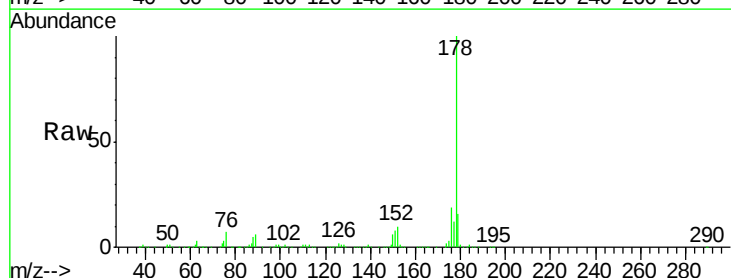
Tgt Ion:178 Resp: 512366

Ion Ratio Lower Upper

178 100

179 16.2 12.9 19.3

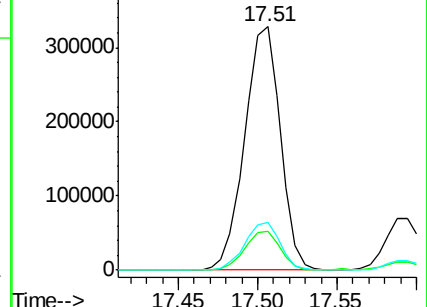
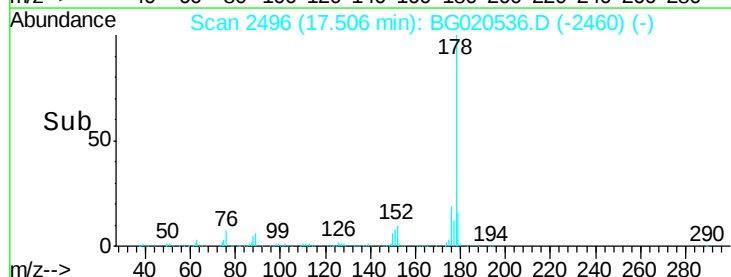
176 19.5 15.3 22.9

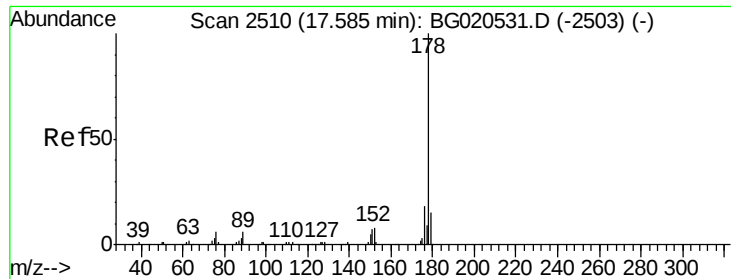


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 12.90 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. 0.01 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

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G9D90

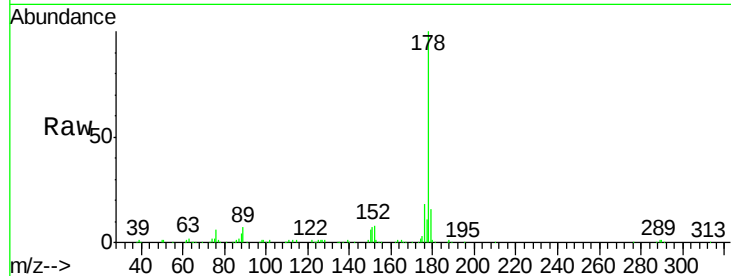
Tgt Ion:178 Resp: 104681

Ion Ratio Lower Upper

178 100

179 15.5 12.3 18.5

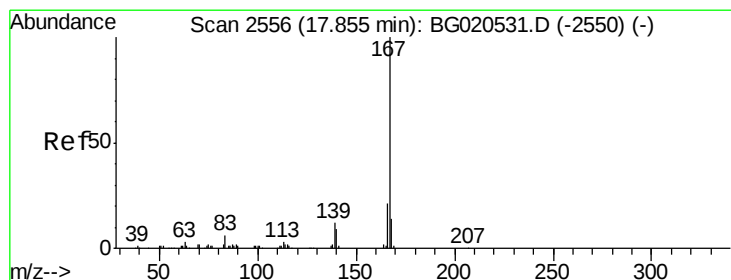
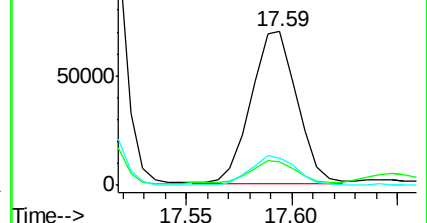
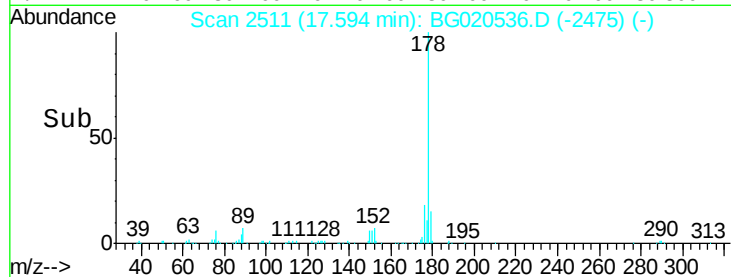
176 18.1 14.3 21.5



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



#75

Carbazole

Concen: 1.05 ng/ul

RT: 17.86 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

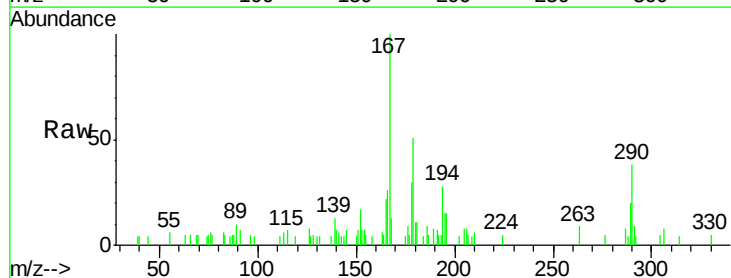
Tgt Ion:167 Resp: 7182

Ion Ratio Lower Upper

167 100

166 25.9 17.0 25.6#

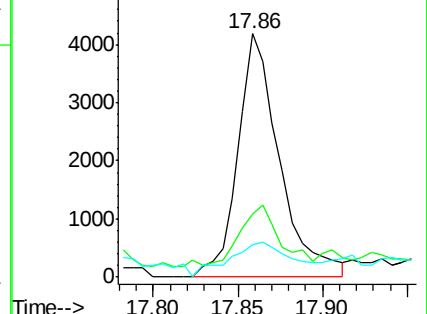
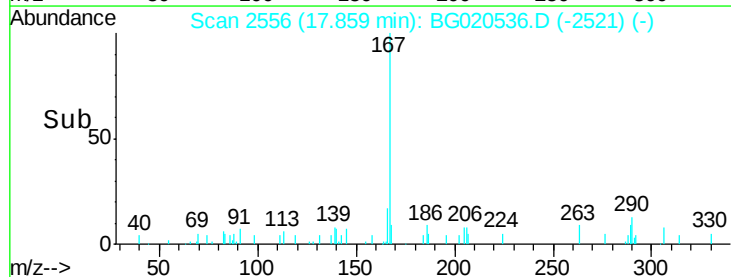
139 13.4 10.1 15.1

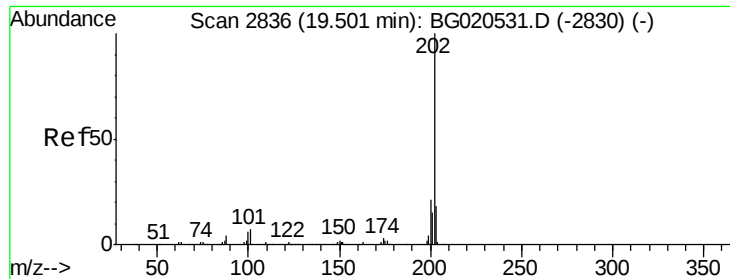


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

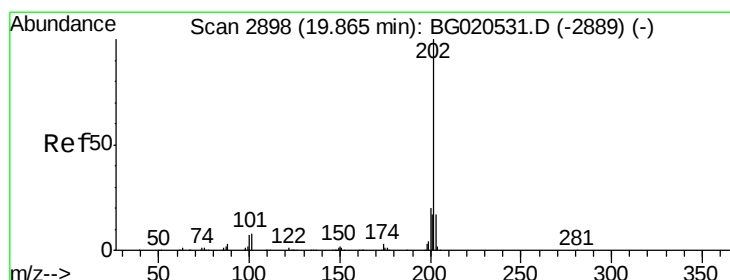
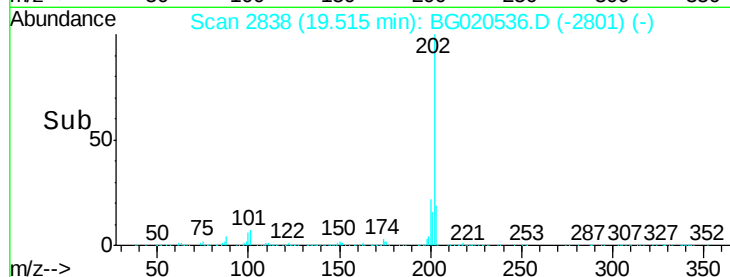
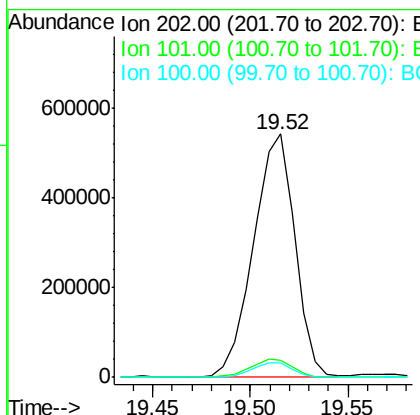
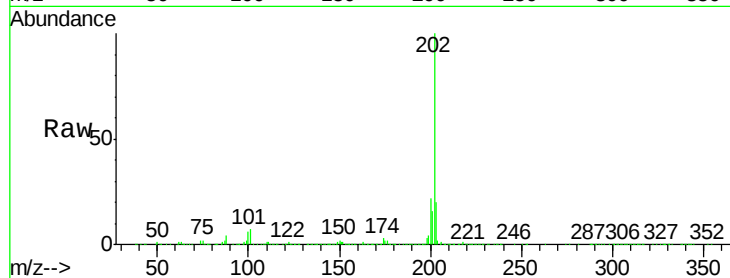




#77
 Fluoranthene
 Concen: 79.22 ng/ul
 RT: 19.52 min Scan# 2838
 Delta R.T. 0.01 min
 Lab File: BG020536.D
 Acq: 26 Dec 2015 12:13

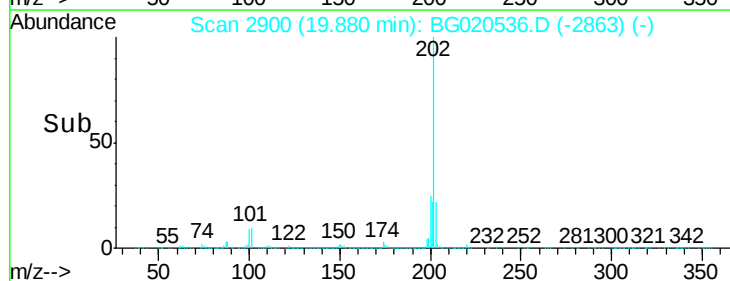
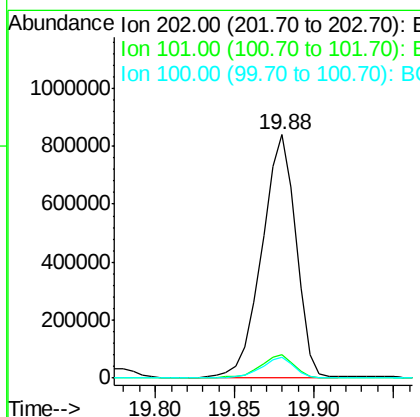
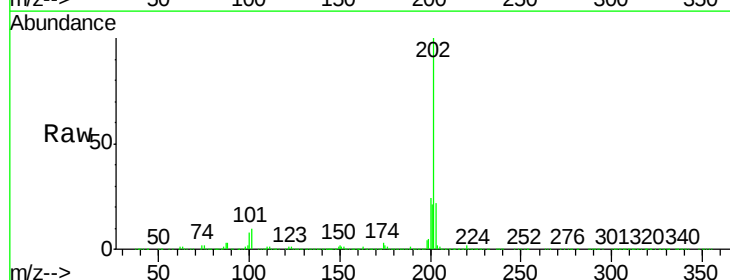
Instrument :
 BNA_G
 ClientSampleId :
 G9D90

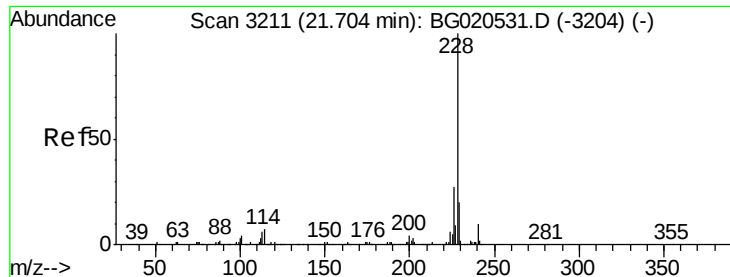
Tgt Ion:	202	Resp:	790680
Ion	Ratio	Lower	Upper
202	100		
101	7.2	6.2	9.4
100	6.1	5.1	7.7



#80
 Pyrene
 Concen: 123.56 ng/ul
 RT: 19.88 min Scan# 2900
 Delta R.T. 0.01 min
 Lab File: BG020536.D
 Acq: 26 Dec 2015 12:13

Tgt Ion:	202	Resp:	1256510
Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.0	10.4
100	8.4	6.4	9.6

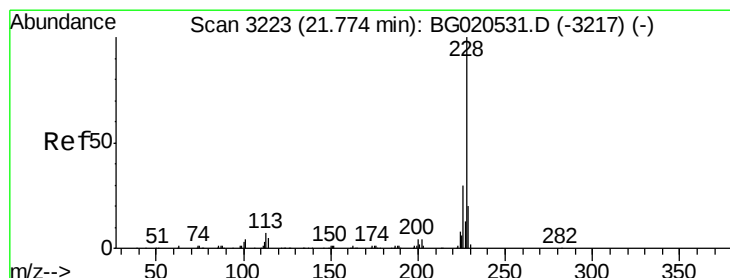
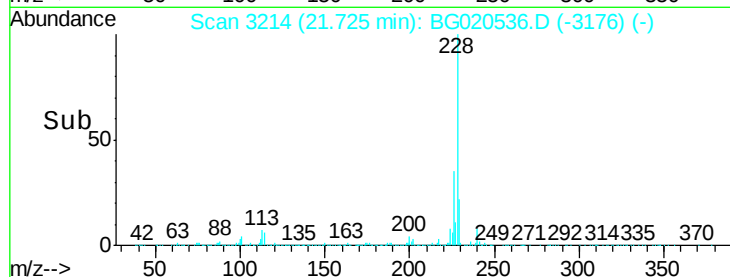
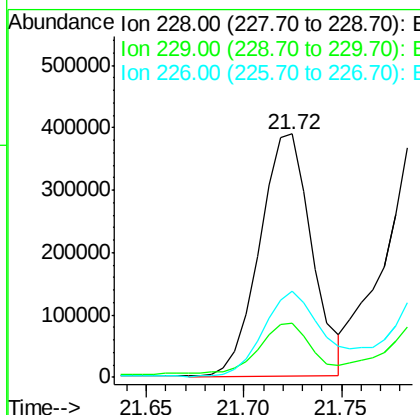
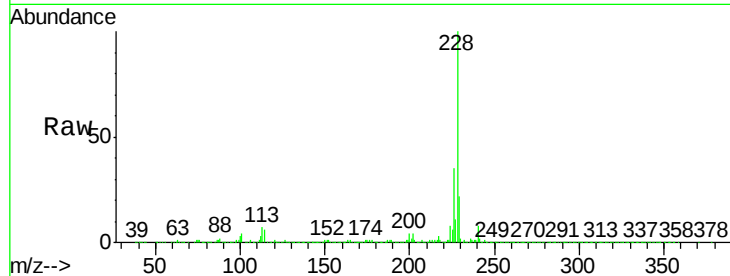




#83
Benzo(a)anthracene
Concen: 68.47 ng/ul
RT: 21.72 min Scan# 3214
Delta R.T. 0.02 min
Lab File: BG020536.D
Acq: 26 Dec 2015 12:13

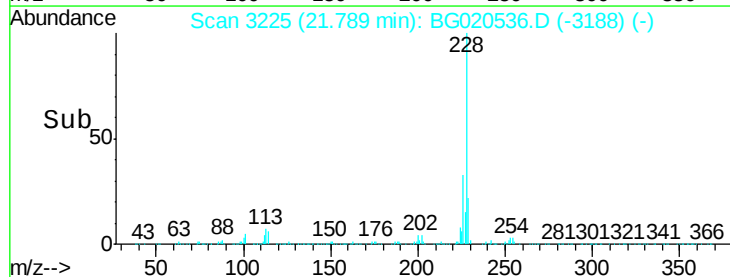
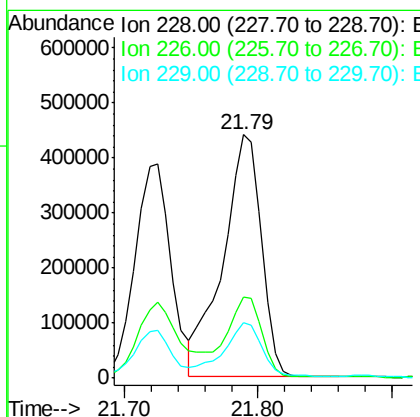
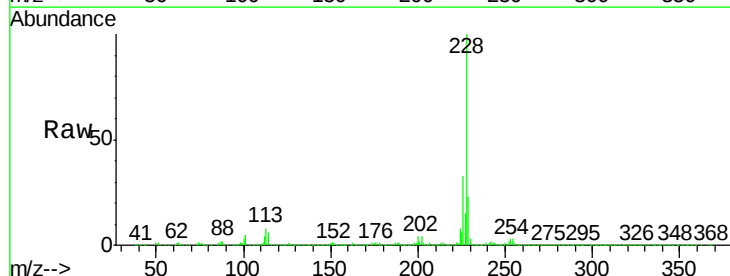
Instrument :
BNA_G
ClientSampleId :
G9D90

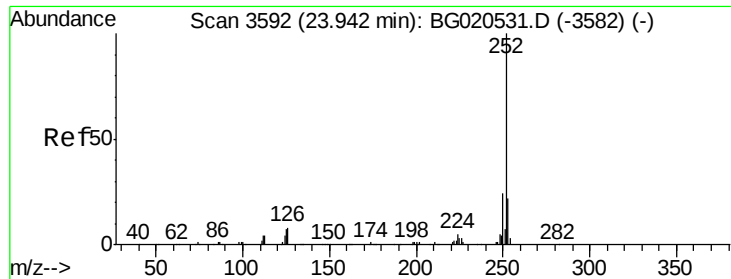
Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.3	15.8	23.8
226	35.3	21.8	32.6



#85
Chrysene
Concen: 88.05 ng/ul
RT: 21.79 min Scan# 3225
Delta R.T. 0.01 min
Lab File: BG020536.D
Acq: 26 Dec 2015 12:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.3	23.9	35.9
229	22.7	15.6	23.4





#88

Benzo(b)fluoranthene

Concen: 86.06 ng/u1

RT: 23.99 min Scan# 3599

Delta R.T. 0.04 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

ClientSampleId :

G9D90

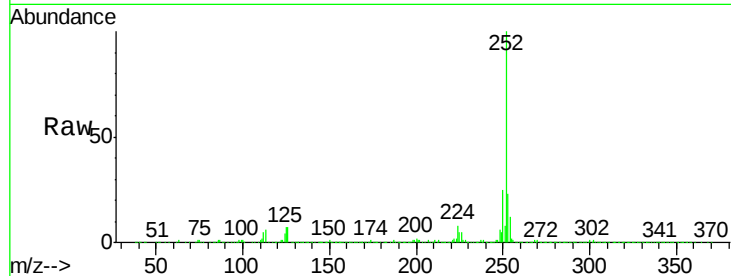
Tgt Ion:252 Resp: 923694

Ion Ratio Lower Upper

252 100

253 23.1 16.7 25.1

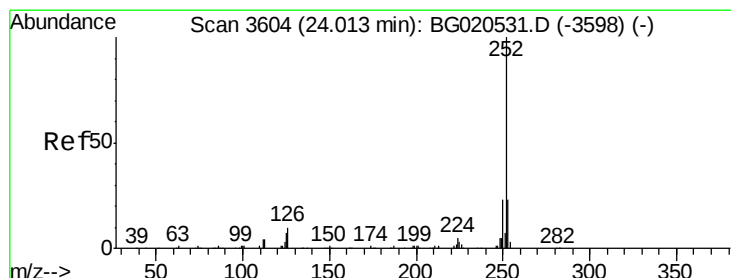
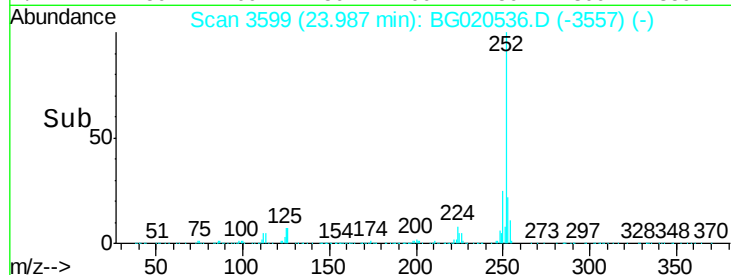
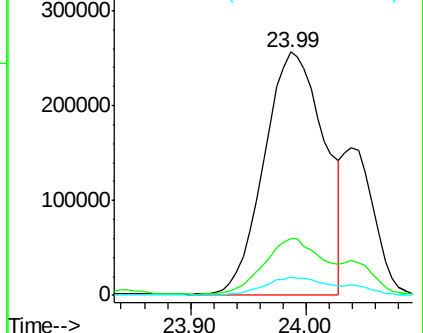
125 7.4 6.2 9.2



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: 89.03 ng/u1

RT: 23.99 min Scan# 3599

Delta R.T. -0.03 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

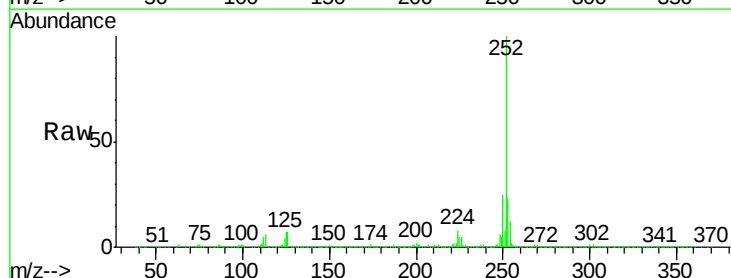
Tgt Ion:252 Resp: 923694

Ion Ratio Lower Upper

252 100

253 23.1 17.9 26.9

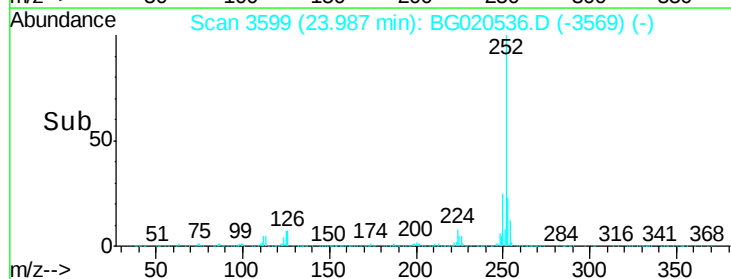
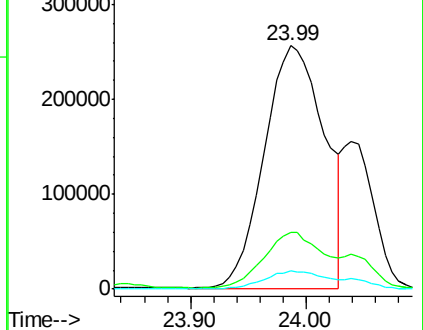
125 7.4 5.8 8.6

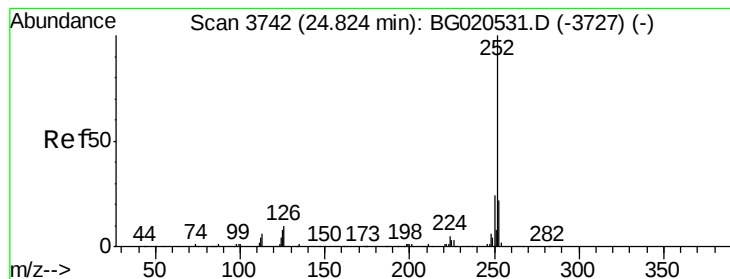


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 68.86 ng/ul

RT: 24.88 min Scan# 3751

Delta R.T. 0.06 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

ClientSampleId :

G9D90

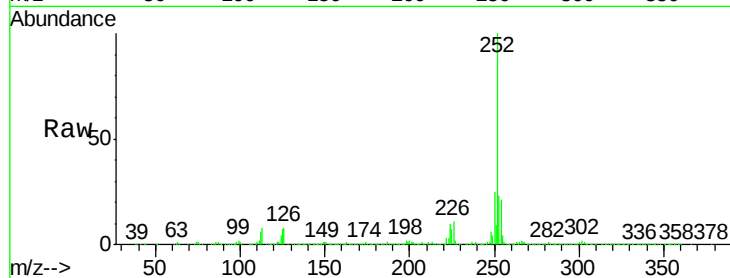
Tgt Ion:252 Resp: 710368

Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.4

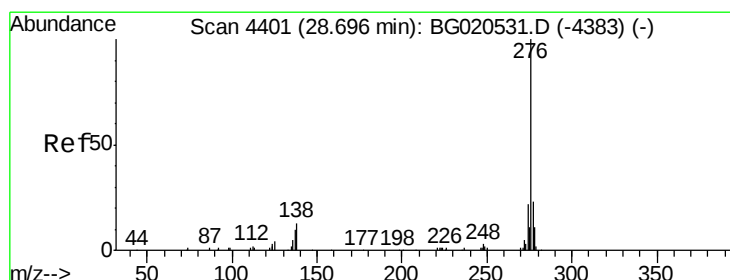
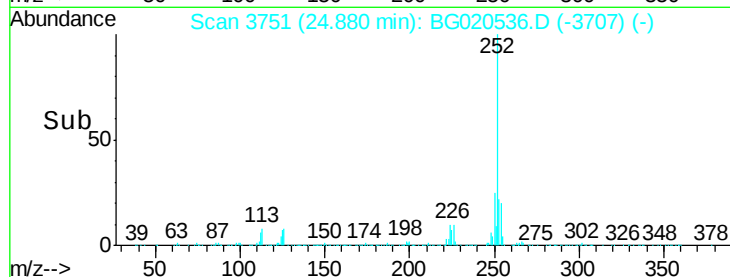
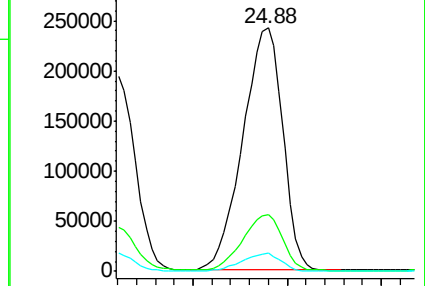
125 7.4 6.2 9.4



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: 18.34 ng/ul

RT: 28.76 min Scan# 4412

Delta R.T. 0.07 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

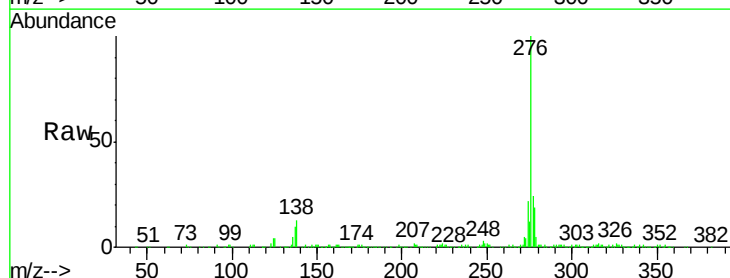
Tgt Ion:276 Resp: 226603

Ion Ratio Lower Upper

276 100

138 12.6 11.4 17.0

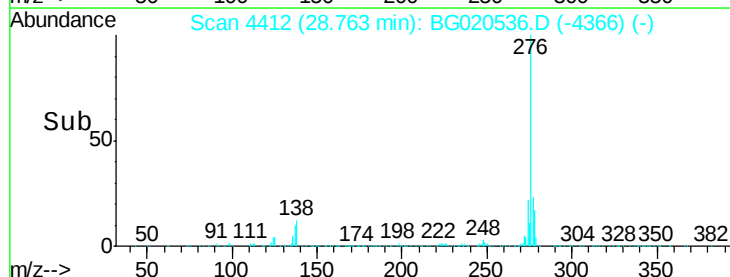
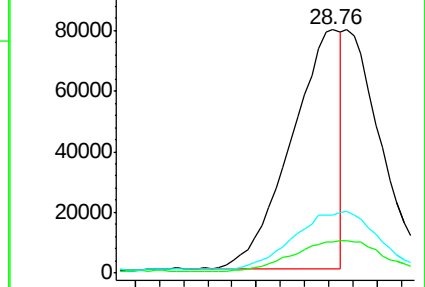
277 23.8 17.4 26.0

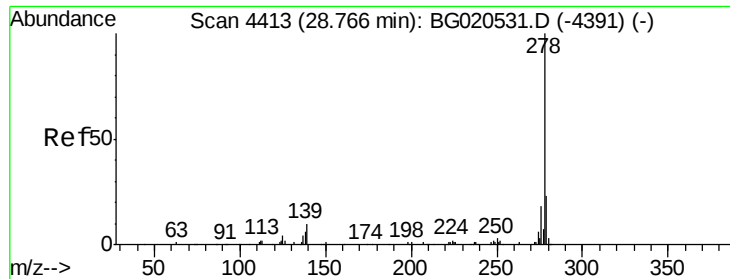


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 11.99 ng/ul

RT: 28.80 min Scan# 4419

Delta R.T. 0.04 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

Instrument :

BNA_G

ClientSampleId :

G9D90

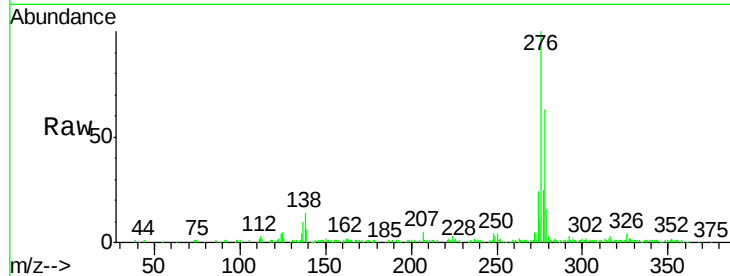
Tgt Ion:278 Resp: 122976

Ion Ratio Lower Upper

278 100

139 10.1 9.4 14.2

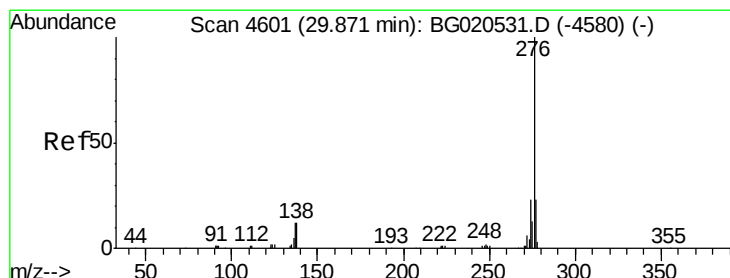
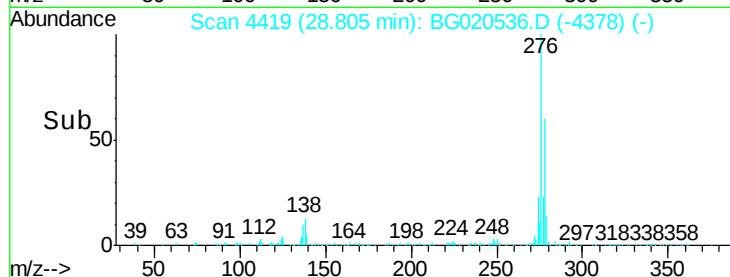
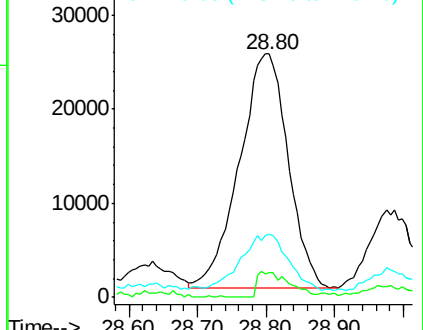
279 25.8 19.4 29.0



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: 39.36 ng/ul

RT: 29.95 min Scan# 4614

Delta R.T. 0.08 min

Lab File: BG020536.D

Acq: 26 Dec 2015 12:13

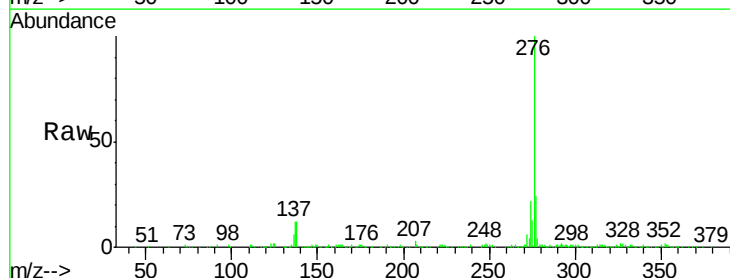
Tgt Ion:276 Resp: 399476

Ion Ratio Lower Upper

276 100

138 12.4 10.8 16.2

277 24.1 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

