

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122815\
 Data File : BG020588.D
 Acq On : 29 Dec 2015 7:35
 Operator : UM/SJ
 Sample : G4802-15DL 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Dec 30 01:12:06 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 30 01:08:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	15354	20.00	ng/ul	0.00
18) Naphthalene-d8	10.88	136	68080	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	53444	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.45	188	148298	20.00	ng/ul	0.00
78) Chrysene-d12	21.73	240	176679	20.00	ng/ul	0.00
86) Perylene-d12	25.00	264	171957	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	7.23	99	3859	3.13	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.39	67	2527	3.46	ng/ul	0.00
9) 2-Chlorophenol-d4	7.60	132	3345	3.54	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	3485	3.36	ng/ul	0.00
19) Nitrobenzene-d5	9.24	128	1760	3.30	ng/ul	0.01
22) 2-Nitrophenol-d4	9.97	143	1793	2.96	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	3766	3.21	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	2151	1.60	ng/ul	0.00
44) Dimethylphthalate-d6	14.10	166	15686	3.56	ng/ul	0.00
47) Acenaphthylene-d8	14.40	160	19079	3.74	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	567	0.77	ng/ul	0.01
58) Fluorene-d10	15.70	176	16404	4.12	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	1103	1.12	ng/ul	0.00
71) Anthracene-d10	17.55	188	28365	4.08	ng/ul	0.00
79) Pyrene-d10	19.83	212	33601	4.39	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.77	264	35119	4.04	ng/ul	0.00

Target Compounds

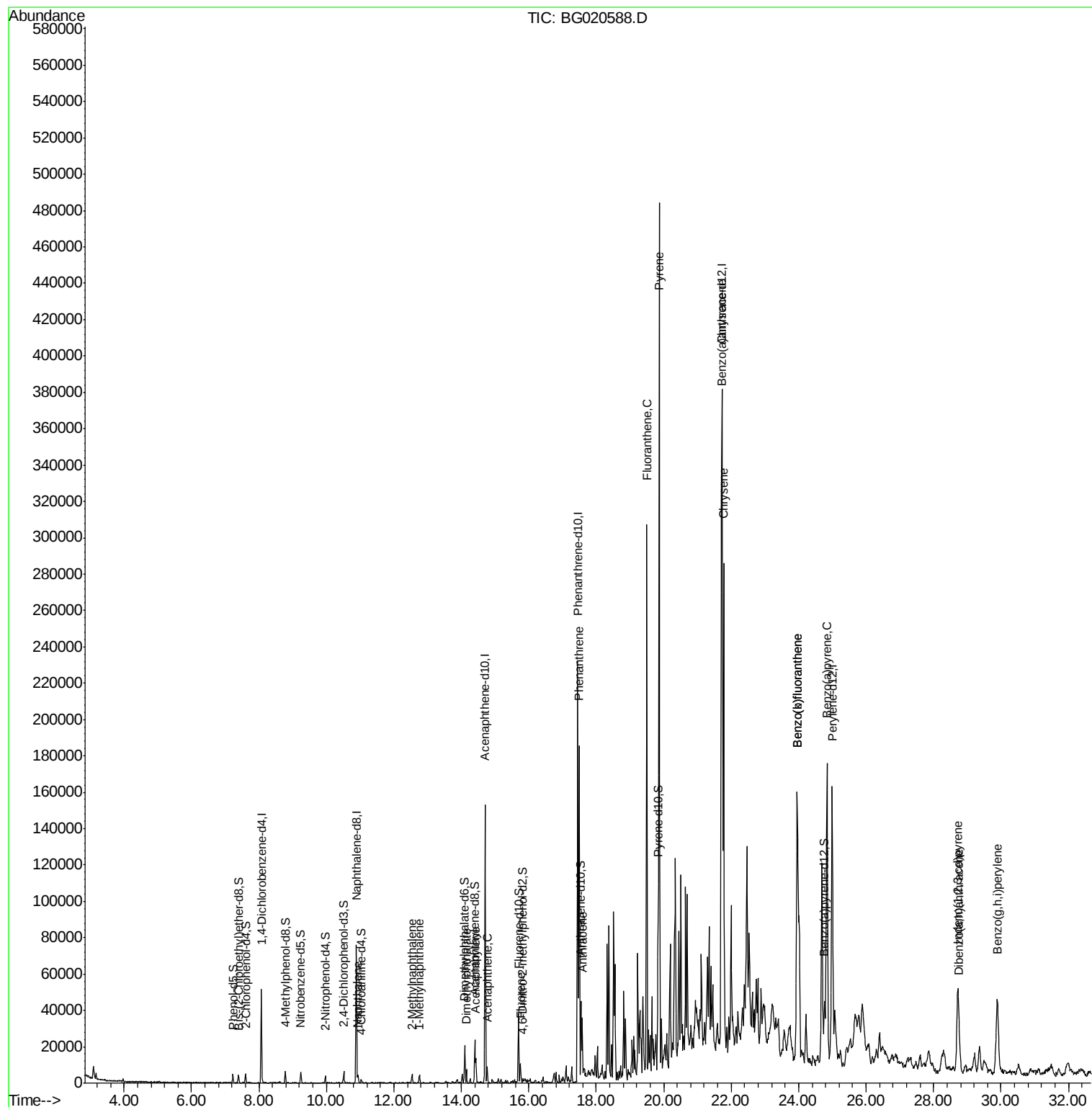
						Ovalue
28) Naphthalene	10.94	128	5454	1.51	ng/ul#	94
34) 2-Methylnaphthalene	12.54	142	3083	1.15	ng/ul	99
35) 1-Methylnaphthalene	12.75	142	3053	1.20	ng/ul#	92
45) Dimethylphthalate	14.15	163	5106	1.14	ng/ul#	96
48) Acenaphthylene	14.43	152	10868	2.03	ng/ul	95
50) Acenaphthene	14.77	153	4354	1.20	ng/ul	96
59) Fluorene	15.75	166	6012	1.37	ng/ul#	96
70) Phenanthrene	17.49	178	121206	14.69	ng/ul	99
72) Anthracene	17.58	178	24083	2.85	ng/ul	99
77) Fluoranthene	19.50	202	191795	18.48	ng/ul	98
80) Pyrene	19.87	202	321361	32.16	ng/ul	98
83) Benzo(a)anthracene	21.71	228	164237	15.83	ng/ul	94
85) Chrysene	21.78	228	201169	20.35	ng/ul	97
88) Benzo(b)fluoranthene	23.96	252	198089	19.19	ng/ul	96
89) Benzo(k)fluoranthene	23.96	252	198089	19.85	ng/ul	99
91) Benzo(a)pyrene	24.84	252	153834	15.51	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.72	276	79883	6.72	ng/ul	93
93) Dibenzo(a,h)anthracene	28.76	278	25533	2.59	ng/ul	98
94) Benzo(g,h,i)perylene	29.88	276	49099	5.03	ng/ul#	96

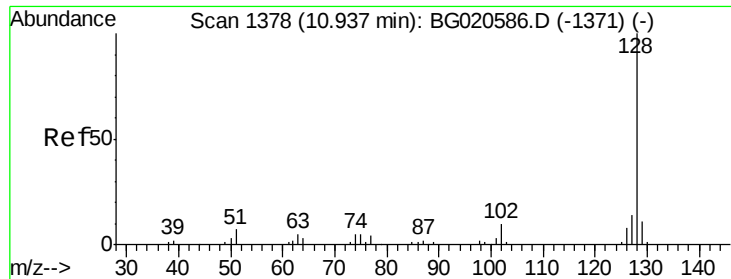
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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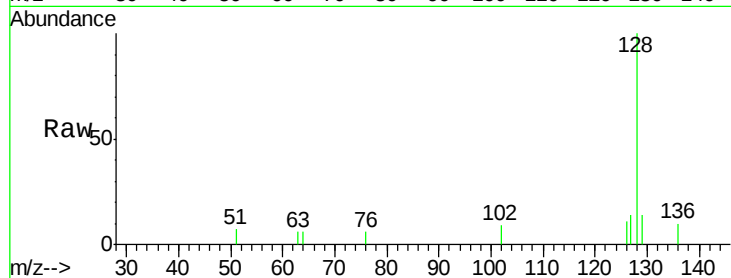




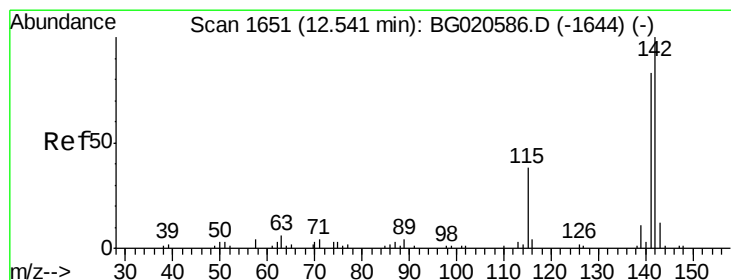
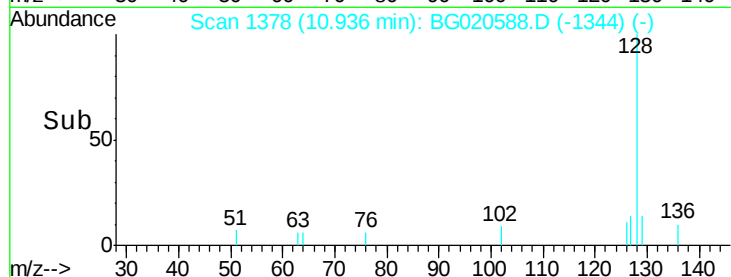
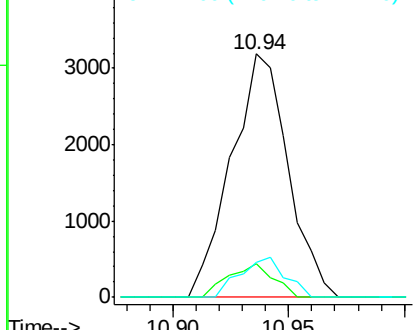
#28
Naphthalene
Concen: 1.51 ng/ul
RT: 10.94 min Scan# 1378
Delta R.T. -0.00 min
Lab File: BG020588.D
Acq: 29 Dec 2015 7:35

Instrument :
BNA_G
ClientSampleId :

Tot Ion:128 Resp: 5454
Ion Ratio Lower Upper
128 100
129 14.0 8.6 12.8#
127 14.1 10.1 15.1

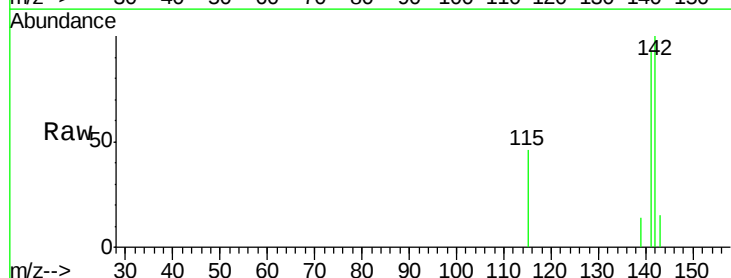


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

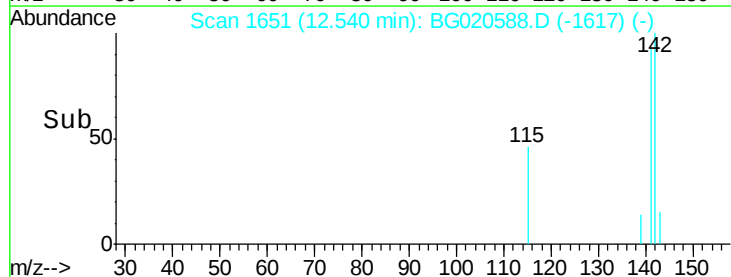
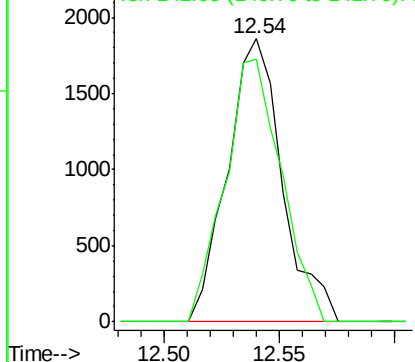


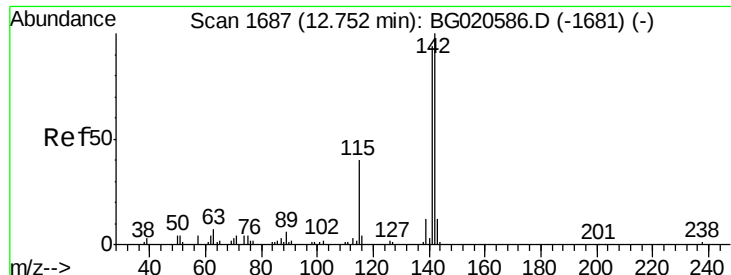
#34
2-Methylnaphthalene
Concen: 1.15 ng/ul
RT: 12.54 min Scan# 1651
Delta R.T. -0.00 min
Lab File: BG020588.D
Acq: 29 Dec 2015 7:35

Tgt Ion:142 Resp: 3083
Ion Ratio Lower Upper
142 100
141 92.8 74.9 112.3



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

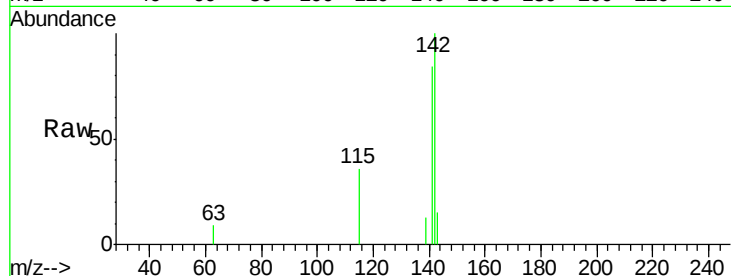




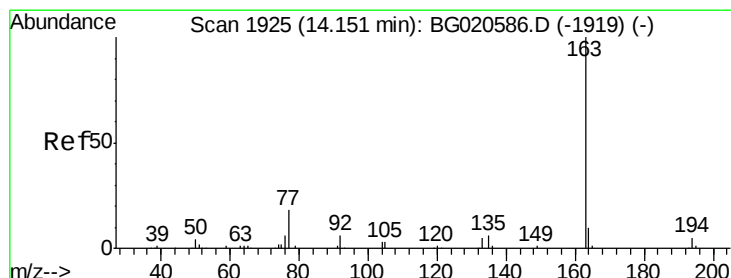
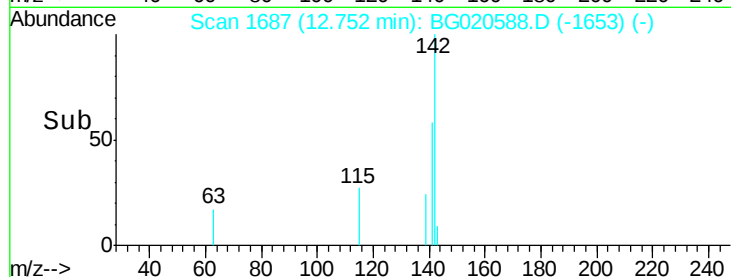
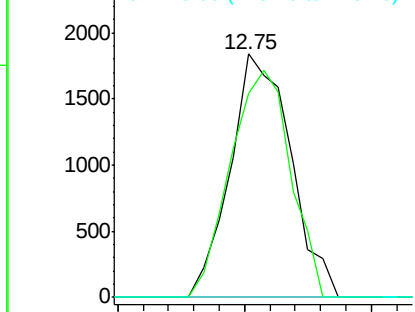
#35
 1-Methylnaphthalene
 Concen: 1.20 ng/ul
 RT: 12.75 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: BG020588.D
 Acq: 29 Dec 2015 7:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:142 Resp: 3053
 Ion Ratio Lower Upper
 142 100
 141 83.7 73.0 109.6
 116 0.0 3.0 4.6#

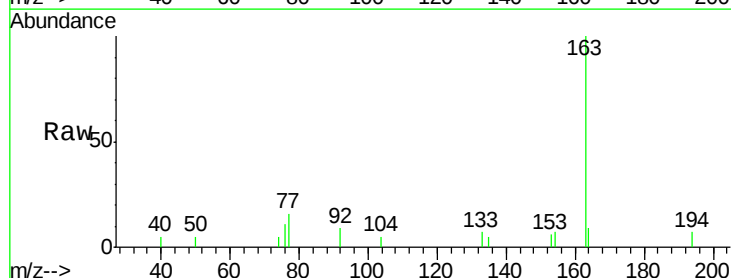


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 116.00 (115.70 to 116.70): E

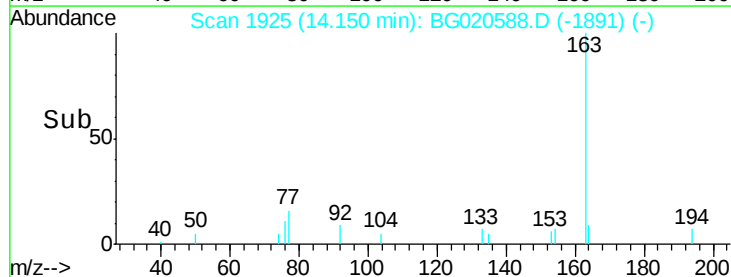
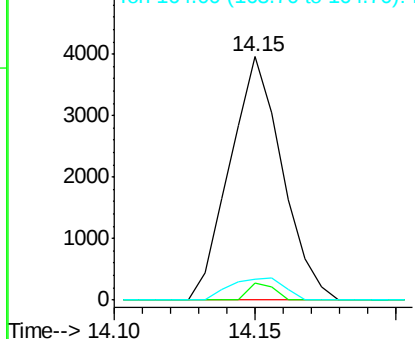


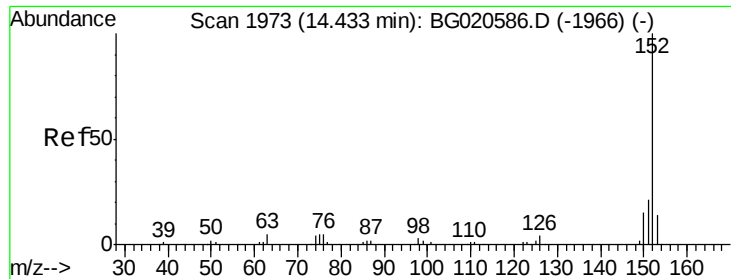
#45
 Dimethylphthalate
 Concen: 1.14 ng/ul
 RT: 14.15 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: BG020588.D
 Acq: 29 Dec 2015 7:35

Tgt Ion:163 Resp: 5106
 Ion Ratio Lower Upper
 163 100
 194 6.9 3.5 5.3#
 164 8.7 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





#48

Acenaphthylene

Concen: 2.03 ng/ul

RT: 14.43 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

Instrument :

BNA_G

ClientSampleId :

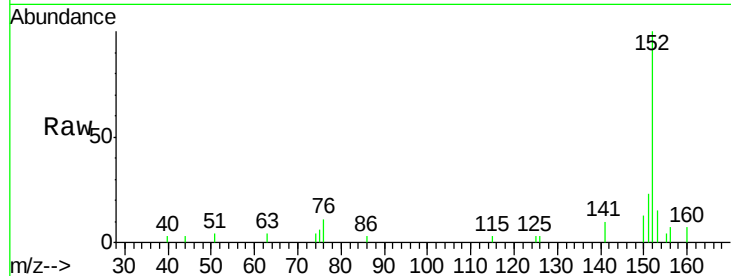
Tot Ion:152 Resp: 10868

Ion Ratio Lower Upper

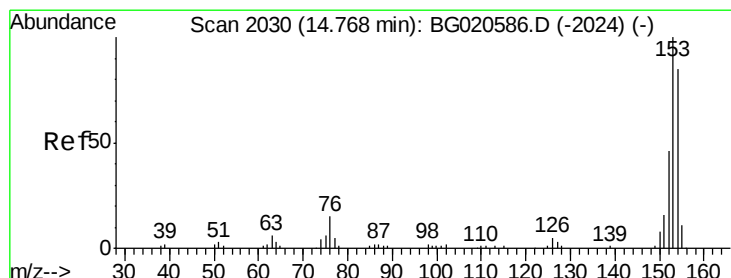
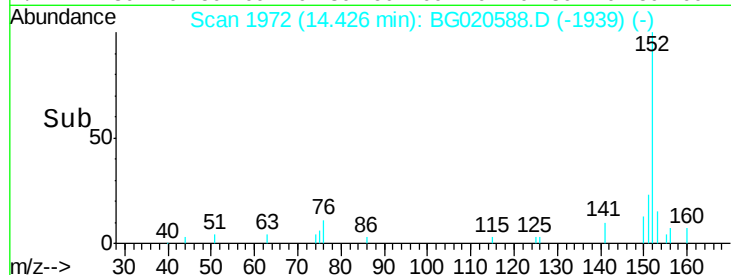
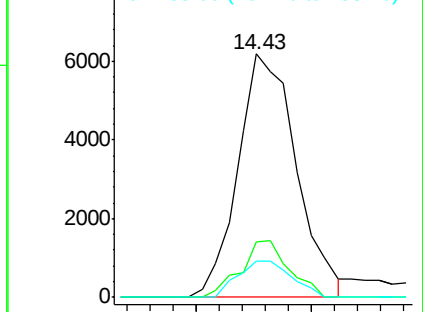
152 100

151 22.6 16.4 24.6

153 15.0 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: 1.20 ng/ul

RT: 14.77 min Scan# 2030

Delta R.T. -0.00 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

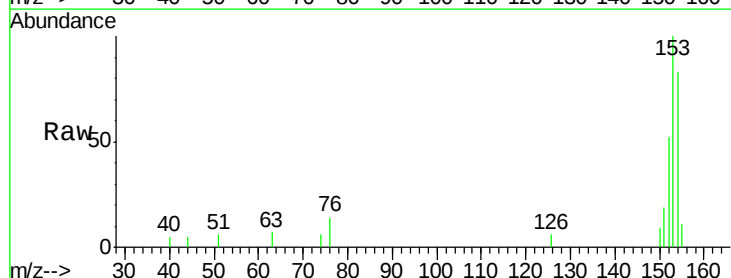
Tgt Ion:153 Resp: 4354

Ion Ratio Lower Upper

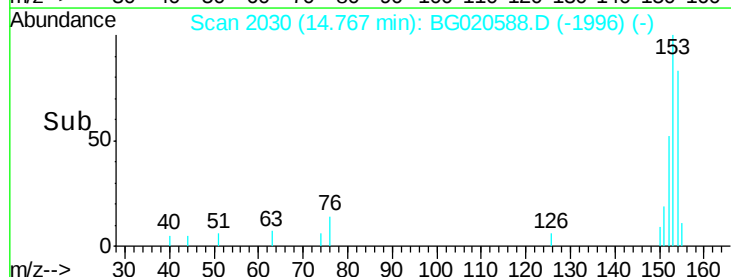
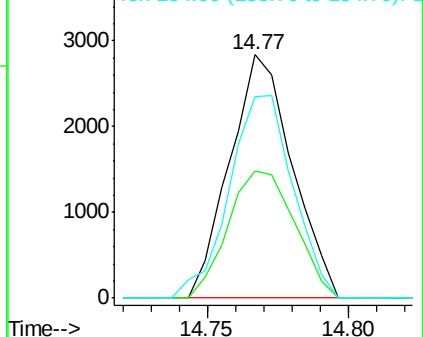
153 100

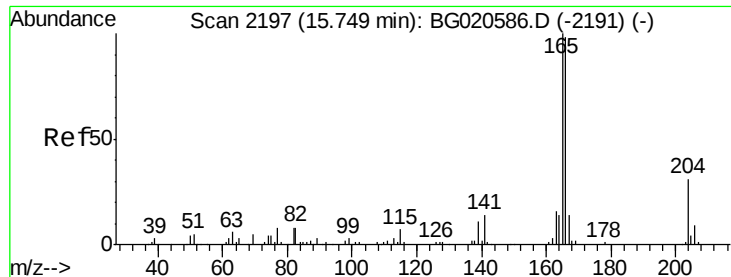
152 52.0 37.6 56.4

154 83.0 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





#59

Fluorene

Concen: 1.37 ng/ul

RT: 15.75 min Scan# 2197

Delta R.T. -0.00 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

Instrument :

BNA_G

ClientSampleId :

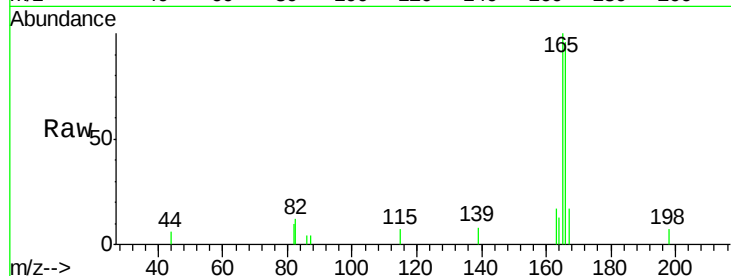
Tot Ion:166 Resp: 6012

Ion Ratio Lower Upper

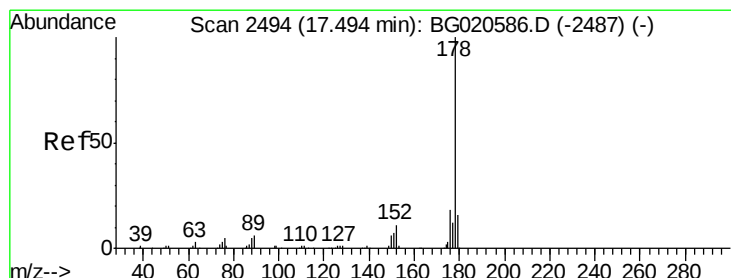
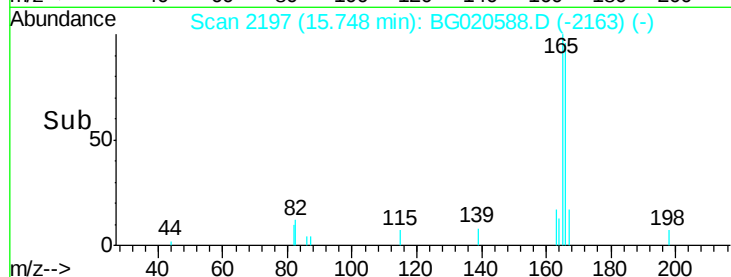
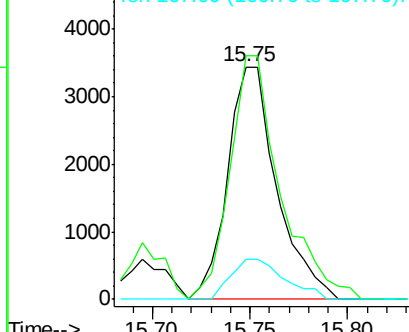
166 100

165 104.7 81.4 122.0

167 17.4 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: 14.69 ng/ul

RT: 17.49 min Scan# 2494

Delta R.T. -0.00 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

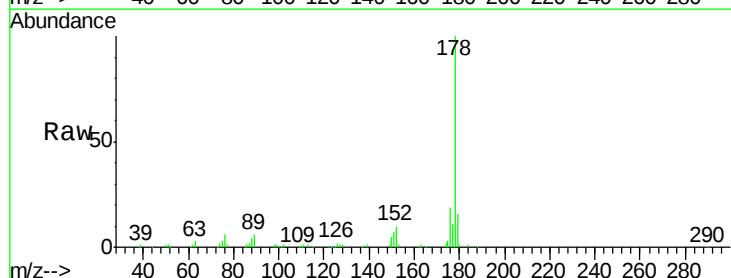
Tgt Ion:178 Resp: 121206

Ion Ratio Lower Upper

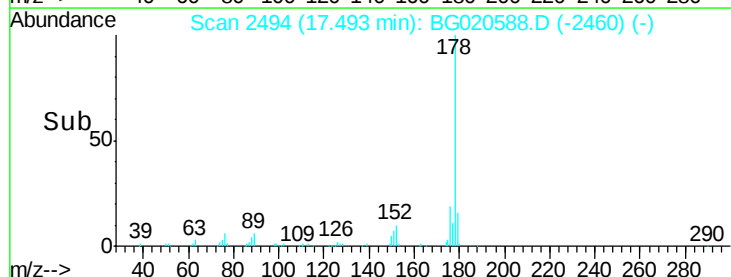
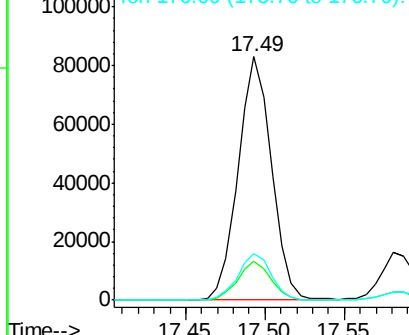
178 100

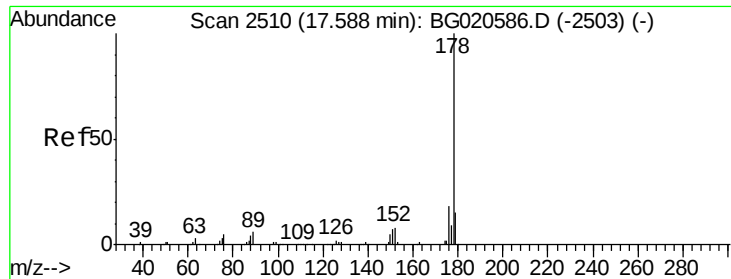
179 15.7 12.9 19.3

176 19.2 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

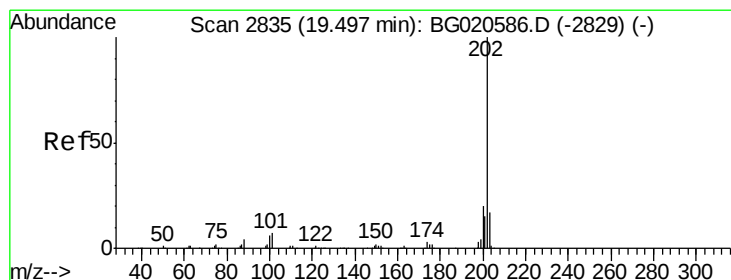
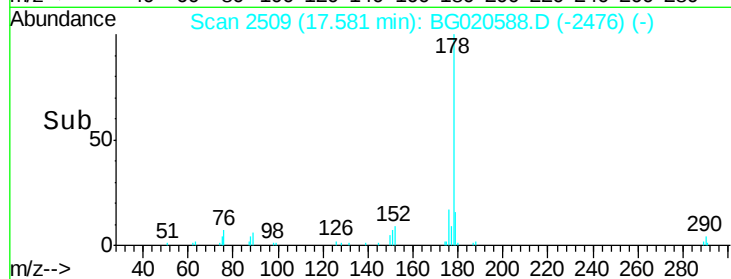
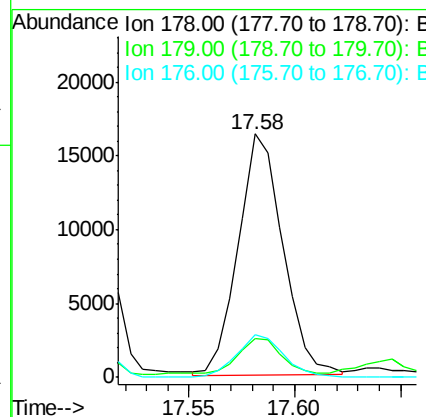
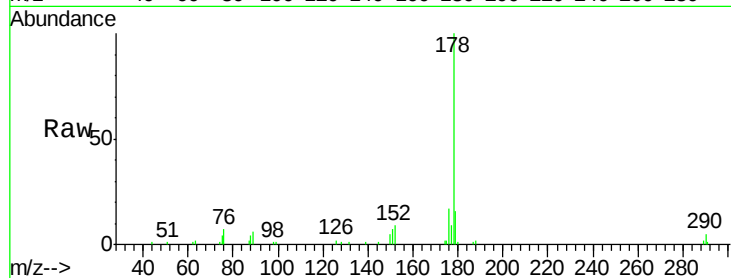




#72
 Anthracene
 Concen: 2.85 ng/ul
 RT: 17.58 min Scan# 2509
 Delta R.T. -0.01 min
 Lab File: BG020588.D
 Acq: 29 Dec 2015 7:35

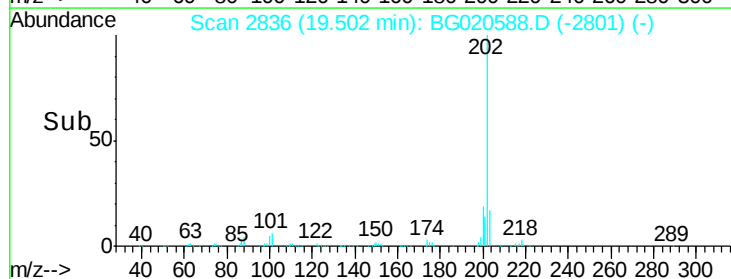
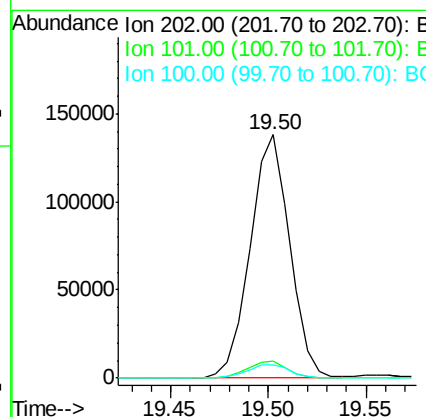
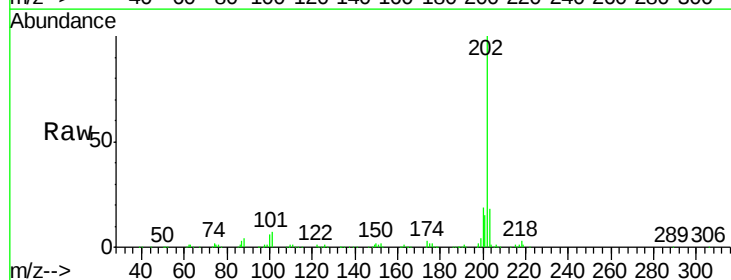
Instrument :
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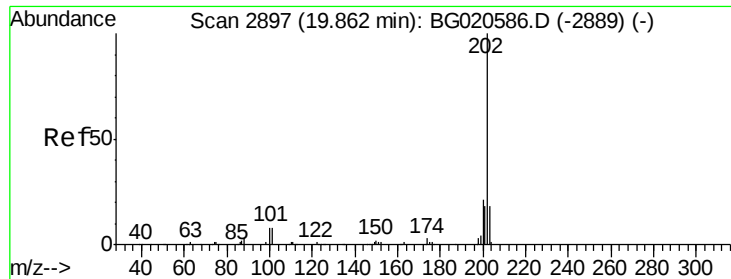
Tot Ion:178 Resp: 24083
 Ion Ratio Lower Upper
 178 100
 179 15.8 12.3 18.5
 176 17.5 14.3 21.5



#77
 Fluoranthene
 Concen: 18.48 ng/ul
 RT: 19.50 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: BG020588.D
 Acq: 29 Dec 2015 7:35

Tgt Ion:202 Resp: 191795
 Ion Ratio Lower Upper
 202 100
 101 7.0 6.2 9.4
 100 5.5 5.1 7.7

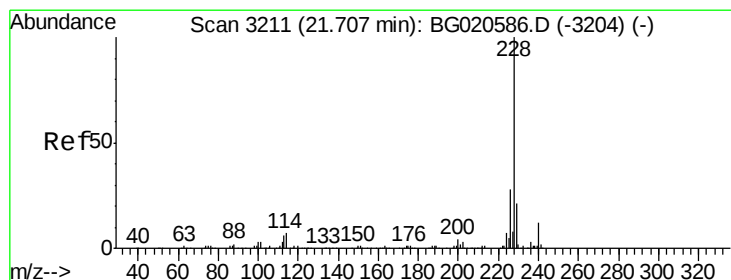
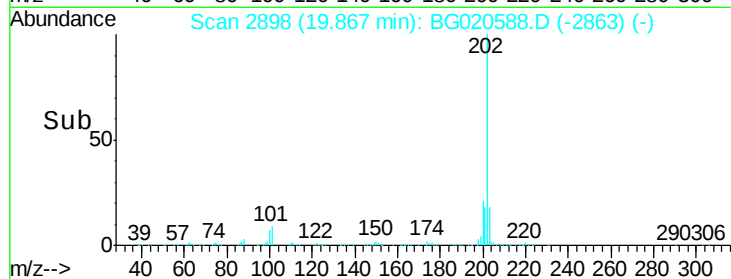
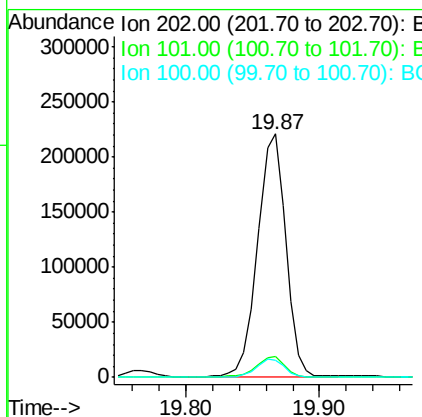
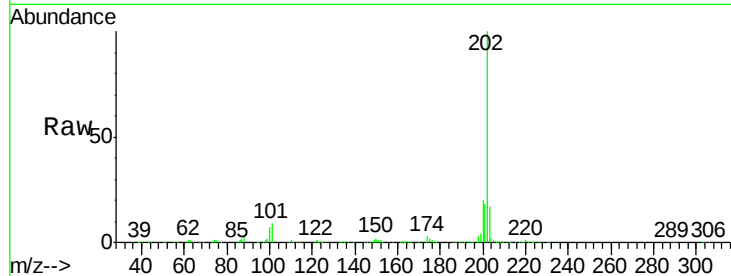




#80
Pvrene
Concen: 32.16 ng/ul
RT: 19.87 min Scan# 2898
Delta R.T. 0.00 min
Lab File: BG020588.D
Acq: 29 Dec 2015 7:35

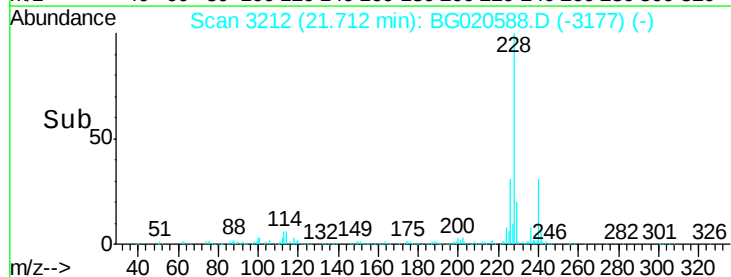
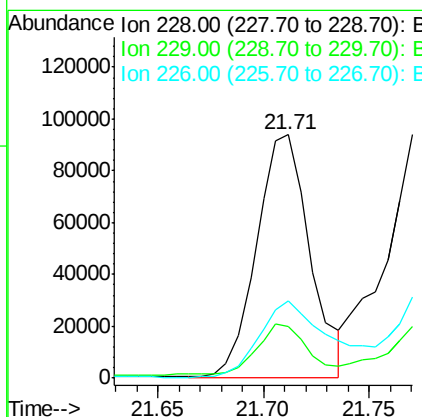
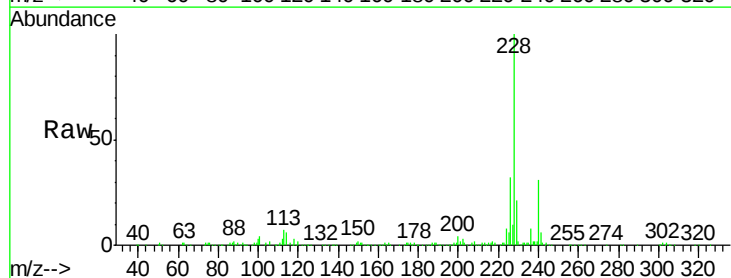
Instrument :
BNA_G
ClientSampleId :

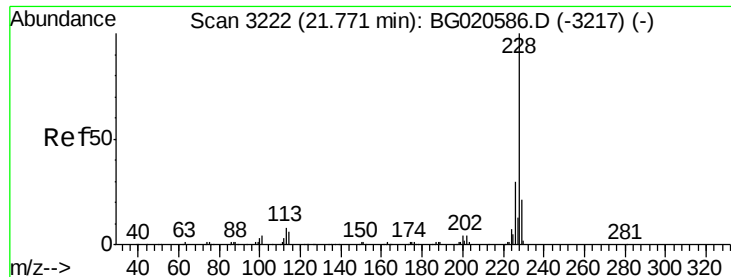
Tot Ion	Ratio	Lower	Upper
202	100		
101	8.7	7.0	10.4
100	6.8	6.4	9.6



#83
Benzo(a)anthracene
Concen: 15.83 ng/ul
RT: 21.71 min Scan# 3212
Delta R.T. 0.00 min
Lab File: BG020588.D
Acq: 29 Dec 2015 7:35

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.0	15.8	23.8
226	31.7	21.8	32.6





#85

Chrysene

Concen: 20.35 ng/ul

RT: 21.78 min Scan# 3223

Delta R.T. 0.01 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

Instrument :

BNA_G

ClientSampleId :

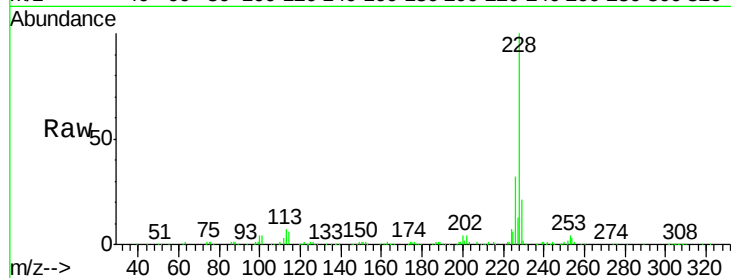
Tot Ion:228 Resp: 201169

Ion Ratio Lower Upper

228 100

226 31.6 23.9 35.9

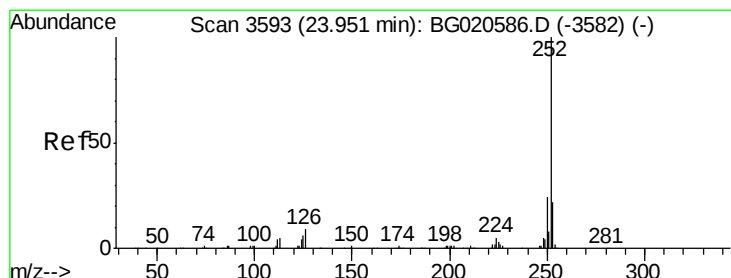
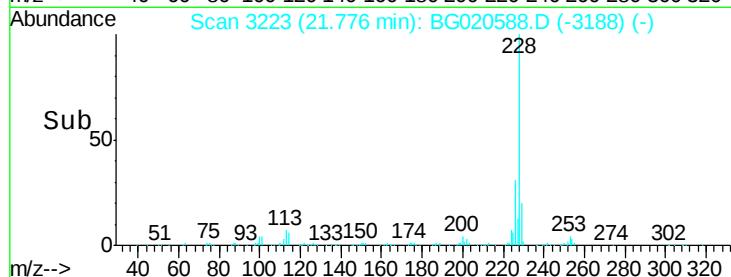
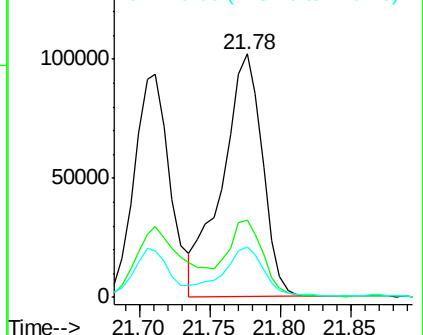
229 20.8 15.6 23.4



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: 19.19 ng/ul

RT: 23.96 min Scan# 3595

Delta R.T. 0.01 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

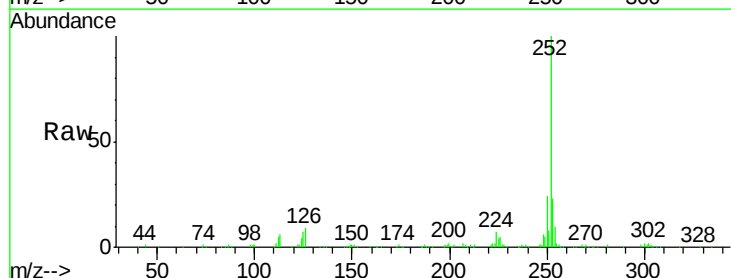
Tgt Ion:252 Resp: 198089

Ion Ratio Lower Upper

252 100

253 22.8 16.7 25.1

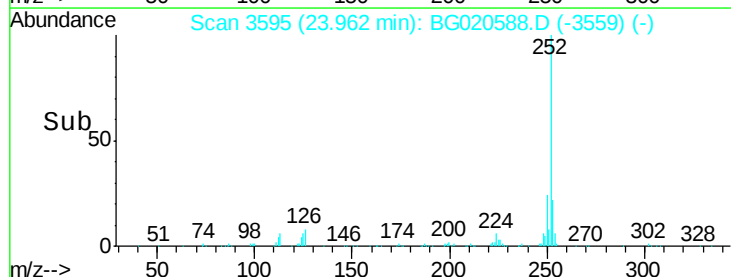
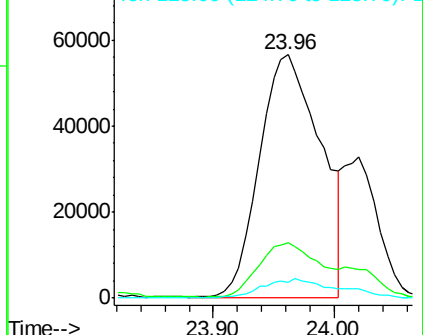
125 6.7 6.2 9.2

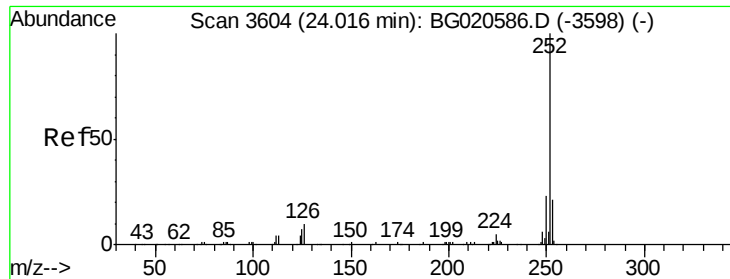


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 19.85 ng/ul

RT: 23.96 min Scan# 3595

Delta R.T. -0.05 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

Instrument :

BNA_G

ClientSampleId :

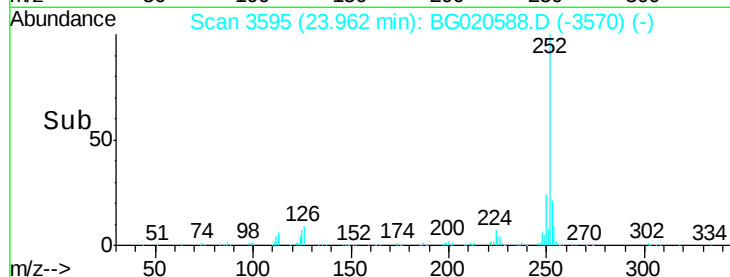
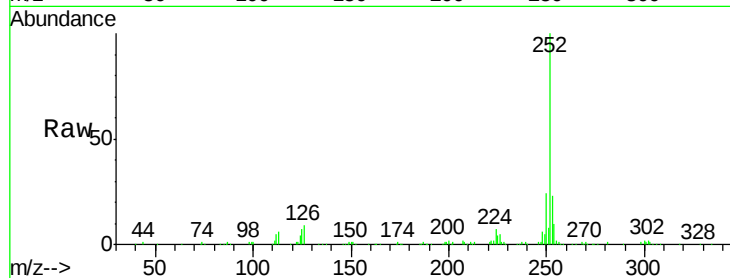
Tot Ion:252 Resp: 198089

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

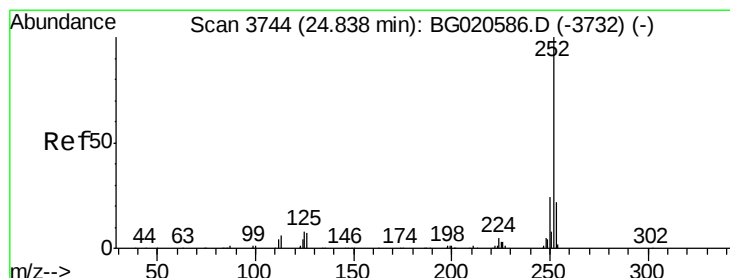
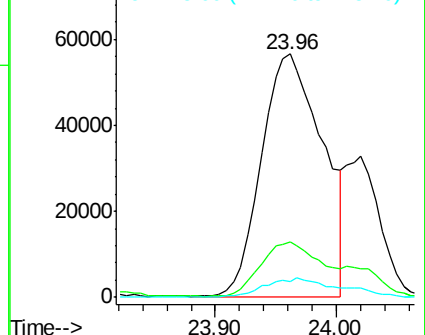
125 6.7 5.8 8.6



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: 15.51 ng/ul

RT: 24.84 min Scan# 3744

Delta R.T. -0.00 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

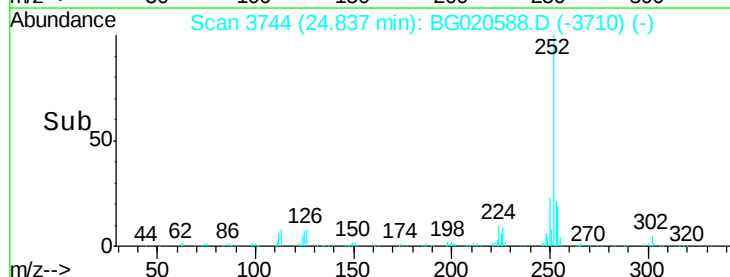
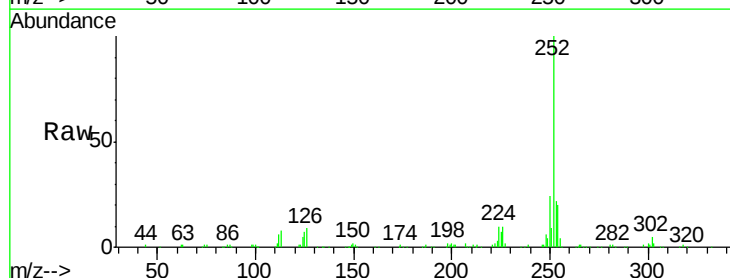
Tgt Ion:252 Resp: 153834

Ion Ratio Lower Upper

252 100

253 22.1 17.0 25.4

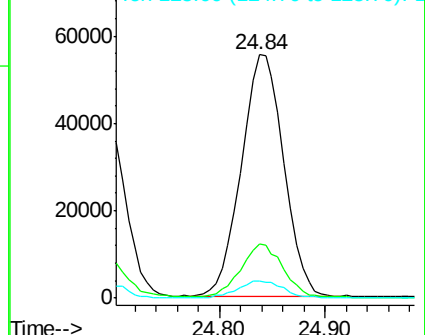
125 7.0 6.2 9.4

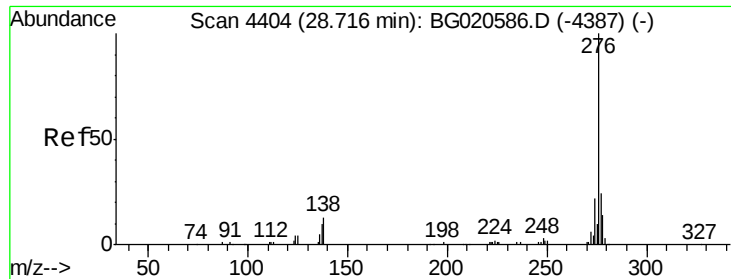


Abundance Ion 252.00 (251.70 to 252.70): E

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: 6.72 ng/ul

RT: 28.72 min Scan# 4404

Delta R.T. -0.00 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

Instrument :

BNA_G

ClientSampleId :

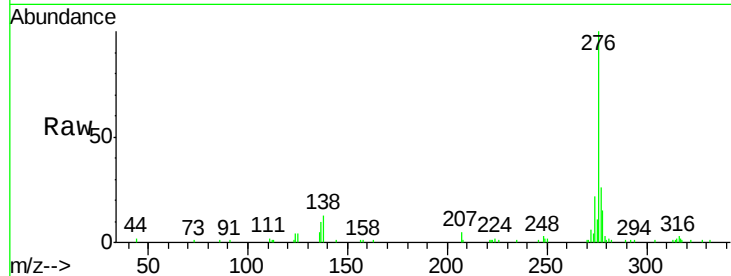
Tot Ion:276 Resp: 79883

Ion Ratio Lower Upper

276 100

138 12.8 11.4 17.0

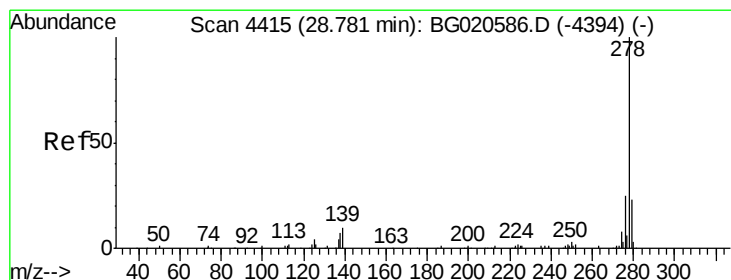
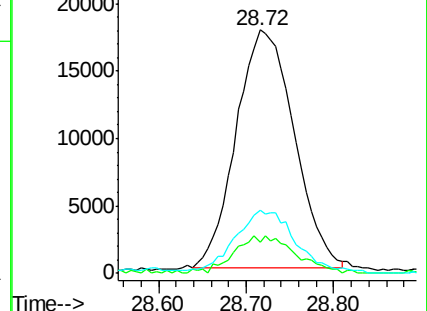
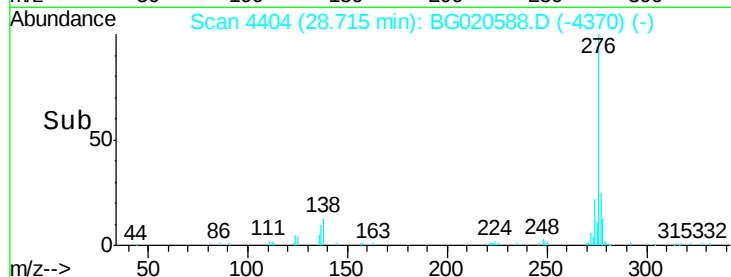
277 25.8 17.4 26.0



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: 2.59 ng/ul

RT: 28.76 min Scan# 4412

Delta R.T. -0.02 min

Lab File: BG020588.D

Acq: 29 Dec 2015 7:35

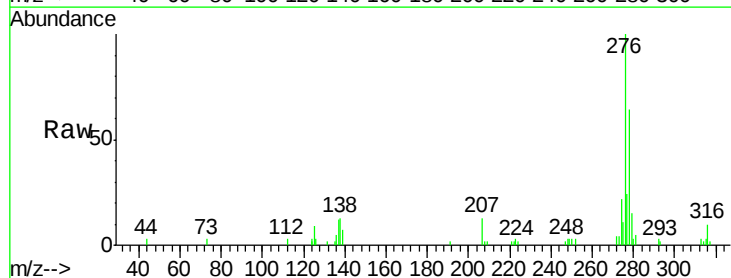
Tgt Ion:278 Resp: 25533

Ion Ratio Lower Upper

278 100

139 10.3 9.4 14.2

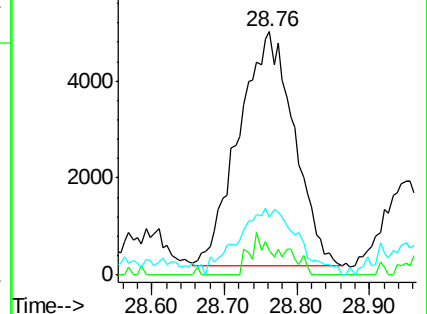
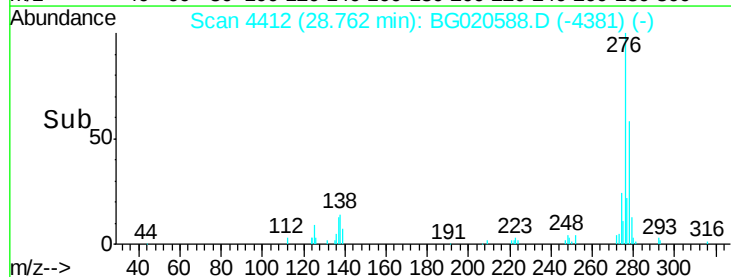
279 24.0 19.4 29.0

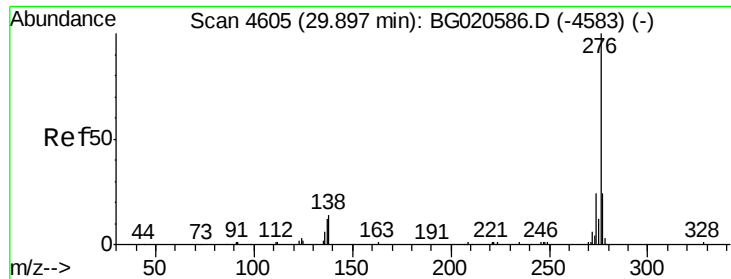


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

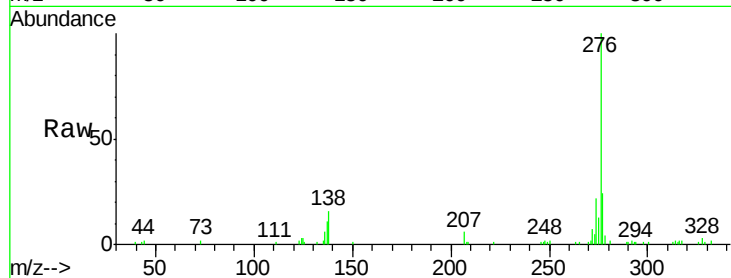




#94
 Benzo(a,h,i)perylene
 Concen: 5.03 ng/ul
 RT: 29.88 min Scan# 4603
 Delta R.T. -0.01 min
 Lab File: BG020588.D
 Acq: 29 Dec 2015 7:35

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.3	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

