

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG081015\
 Data File : BG018369.D
 Acq On : 11 Aug 2015 00:44
 Operator : UM/MA
 Sample : G3109-16RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01W6

Quant Time: Aug 11 04:19:27 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080915.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 11 01:39:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	124934	20.00	ng/ul	0.00
18) Naphthalene-d8	10.85	136	544914	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.67	164	309675	20.00	ng/ul	0.01
62) Phenanthrene-d10	17.41	188	618446	20.00	ng/ul	0.01
78) Chrysene-d12	21.69	240	533460	20.00	ng/ul	0.03
86) Perylene-d12	24.95	264	543480	20.00	ng/ul	0.08

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	4247	1.50	ng/uL	0.00
5) Phenol-d5	7.20	99	101915	8.99	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.36	67	66582	9.48	ng/ul	0.00
9) 2-Chlorophenol-d4	7.57	132	79997	9.21	ng/ul	0.01
13) 4-Methylphenol-d8	8.74	113	72363	7.60	ng/ul	0.00
19) Nitrobenzene-d5	9.19	128	41838	9.85	ng/ul	0.00
22) 2-Nitrophenol-d4	9.92	143	43907	10.15	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.47	165	88708	9.66	ng/ul	0.01
29) 4-Chloroaniline-d4	10.97	131	24329	2.34	ng/ul	0.00
44) Dimethylphthalate-d6	14.07	166	274536	10.54	ng/ul	0.00
47) Acenaphthylene-d8	14.36	160	348570	10.62	ng/ul	0.01
52) 4-Nitrophenol-d4	14.85	143	30412	6.49	ng/ul	0.01
58) Fluorene-d10	15.66	176	239842	10.57	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.77	200	9005	2.96	ng/ul	0.01
71) Anthracene-d10	17.51	188	324215	10.96	ng/ul	0.01
79) Pyrene-d10	19.80	212	305981	11.06	ng/ul	0.02
90) Benzo(a)pyrene-d12	24.72	264	313374	10.86	ng/ul	0.07

Target Compounds

						Qvalue
28) Naphthalene	10.90	128	50893	1.77	ng/ul	98
34) 2-Methylnaphthalene	12.50	142	33513	1.61	ng/ul	88
35) 1-Methylnaphthalene	12.72	142	20688	1.02	ng/ul#	93
45) Dimethylphthalate	14.12	163	124871	4.86	ng/ul#	97
50) Acenaphthene	14.73	153	36781	1.59	ng/ul	95
54) Dibenzofuran	15.06	168	34219	1.13	ng/ul	89
59) Fluorene	15.72	166	36237	1.40	ng/ul	99
70) Phenanthrene	17.45	178	341259	10.17	ng/ul	100
72) Anthracene	17.45	178	342752	10.02	ng/ul	99
75) Carbazole	17.81	167	39356	1.31	ng/ul#	79
76) Di-n-butylphthalate	18.37	149	130086	3.32	ng/ul#	91
77) Fluoranthene	19.46	202	774777	21.62	ng/ul	99
80) Pyrene	19.83	202	775317	21.49	ng/ul	99
81) Butylbenzylphthalate	20.71	149	228064	14.95	ng/ul#	78
83) Benzo(a)anthracene	21.67	228	424213	12.83	ng/ul#	90
84) Bis(2-ethylhexyl)phthalate	21.59	149	3752683	174.08	ng/ul#	67
85) Chrysene	21.74	228	430656	13.93	ng/ul	97
87) Di-n-octyl phthalate	22.85	149	805543	22.97	ng/ul	100
88) Benzo(b)fluoranthene	23.91	252	685914	20.09	ng/ul#	81
89) Benzo(k)fluoranthene	23.97	252	204379	6.22	ng/ul#	59
91) Benzo(a)pyrene	24.79	252	425140	13.09	ng/ul#	77
92) Indeno(1,2,3-cd)pyrene	28.66	276	296942	7.90	ng/ul#	83
93) Dibenzo(a,h)anthracene	28.69	278	62184	1.99	ng/ul#	37

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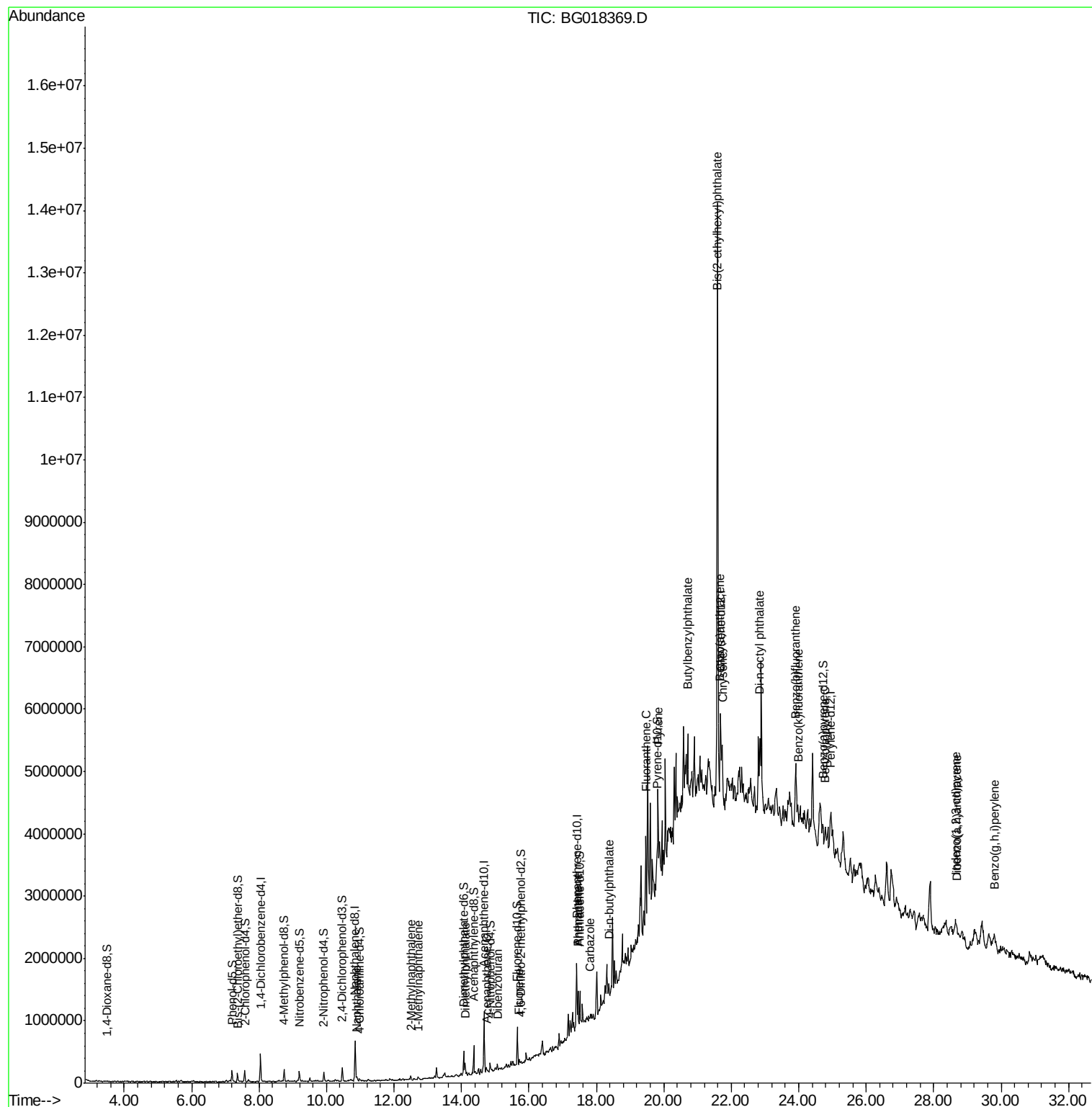
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(g,h,i)perylene	29.81	276	174353	5.53	ng/ul#	91

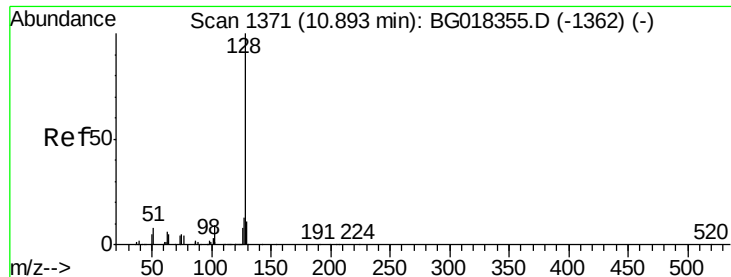
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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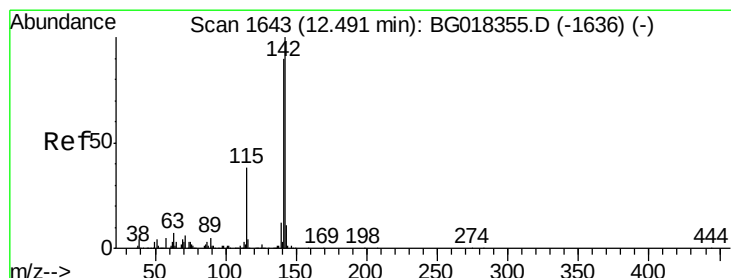
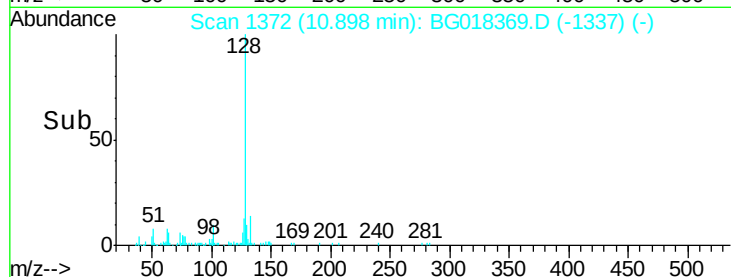
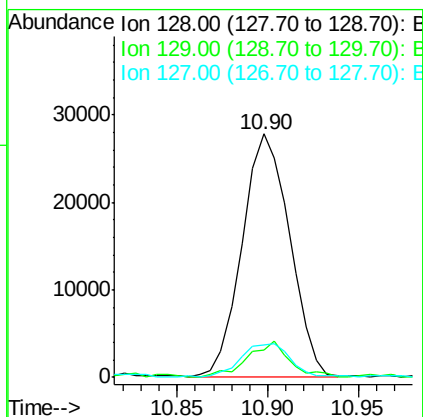
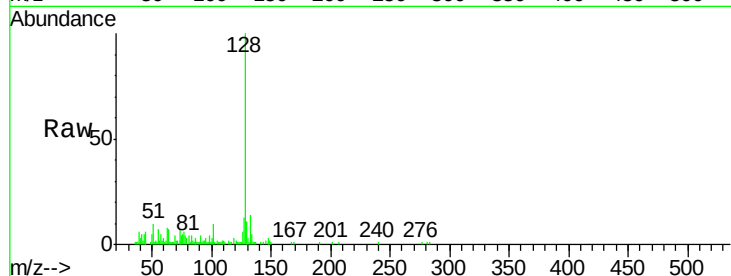




#28
Naphthalene
Concen: 1.77 ng/ul
RT: 10.90 min Scan# 1372
Delta R.T. 0.01 min
Lab File: BG018369.D
Acq: 11 Aug 2015 00:44

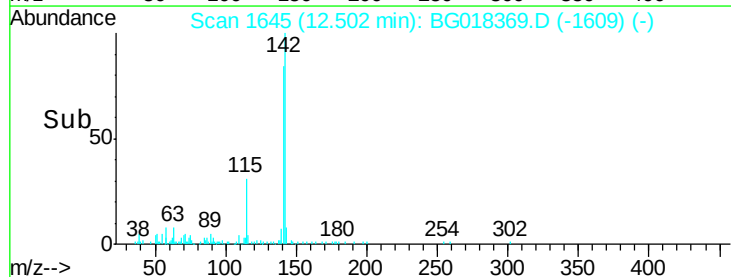
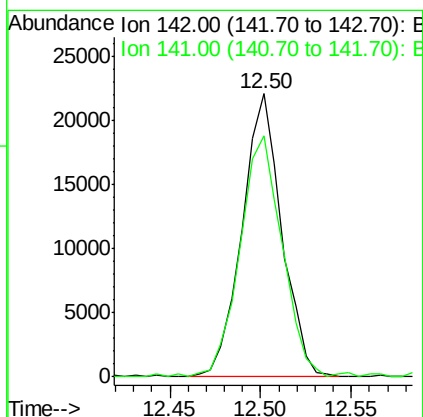
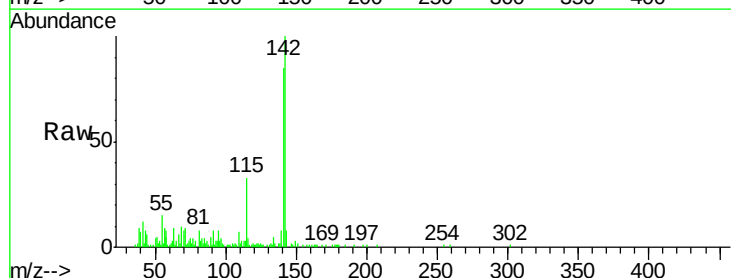
Instrument :
BNA_G
ClientSampleId :
C01W6

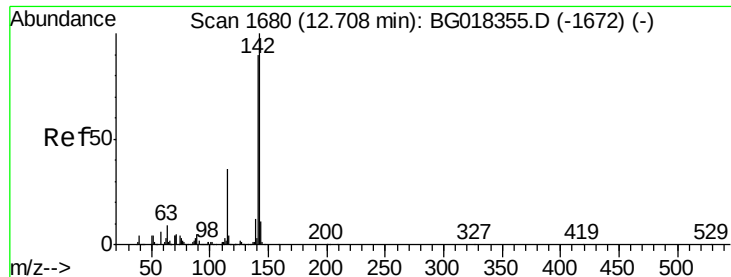
Tgt Ion:128 Resp: 50893
Ion Ratio Lower Upper
128 100
129 11.1 9.6 14.4
127 13.5 10.5 15.7



#34
2-Methylnaphthalene
Concen: 1.61 ng/ul
RT: 12.50 min Scan# 1645
Delta R.T. 0.01 min
Lab File: BG018369.D
Acq: 11 Aug 2015 00:44

Tgt Ion:142 Resp: 33513
Ion Ratio Lower Upper
142 100
141 85.4 78.0 117.0

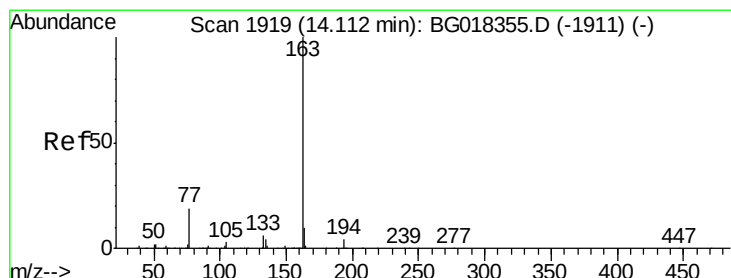
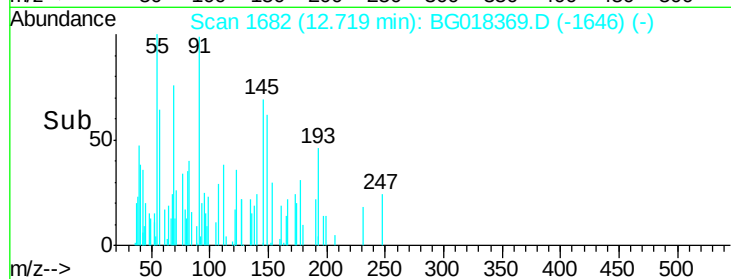
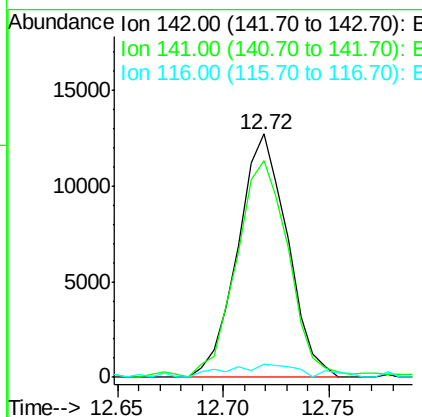
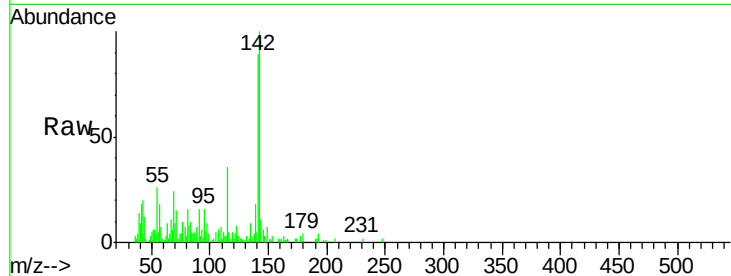




#35
 1-Methylnaphthalene
 Concen: 1.02 ng/ul
 RT: 12.72 min Scan# 1682
 Delta R.T. 0.01 min
 Lab File: BG018369.D
 Acq: 11 Aug 2015 00:44

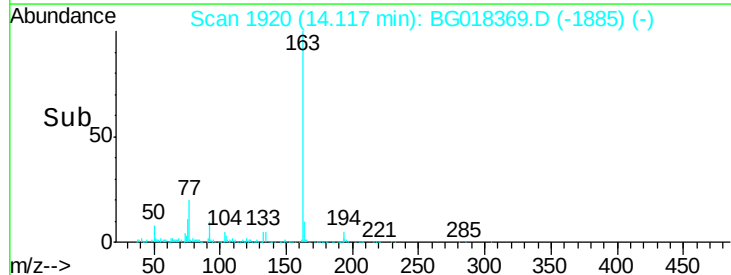
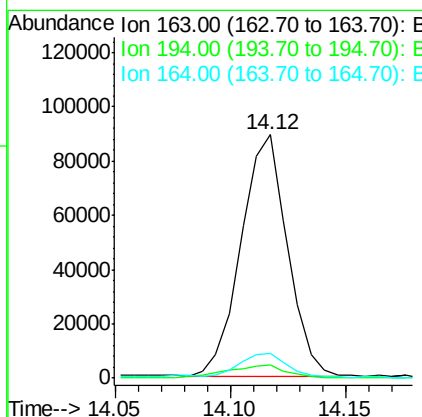
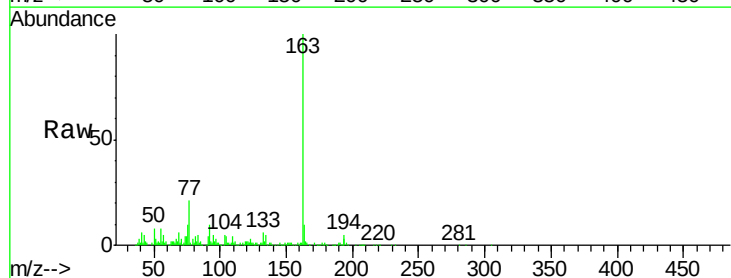
Instrument :
 BNA_G
 ClientSampleId :
 C01W6

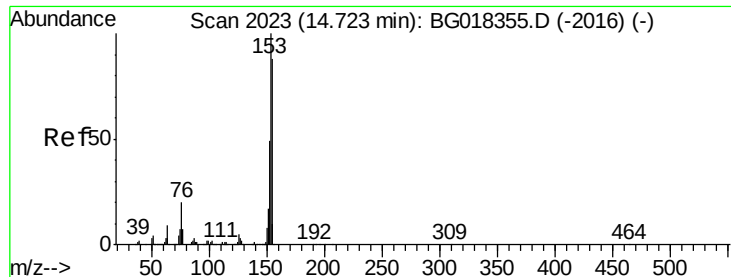
Tgt Ion:142 Resp: 20688
 Ion Ratio Lower Upper
 142 100
 141 89.1 77.1 115.7
 116 5.3 3.5 5.3#



#45
 Dimethylphthalate
 Concen: 4.86 ng/ul
 RT: 14.12 min Scan# 1920
 Delta R.T. 0.01 min
 Lab File: BG018369.D
 Acq: 11 Aug 2015 00:44

Tgt Ion:163 Resp: 124871
 Ion Ratio Lower Upper
 163 100
 194 5.4 2.9 4.3#
 164 10.3 7.7 11.5





#50

Acenaphthene

Concen: 1.59 ng/ul

RT: 14.73 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

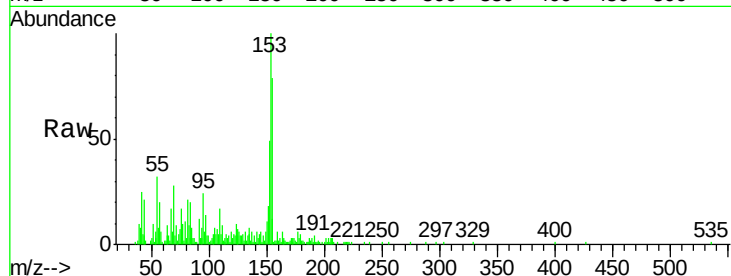
Tgt Ion:153 Resp: 36781

Ion Ratio Lower Upper

153 100

152 48.6 38.2 57.4

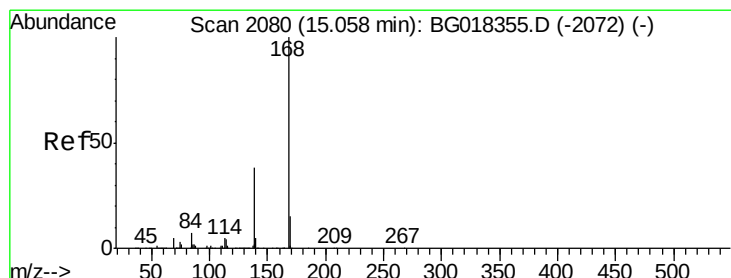
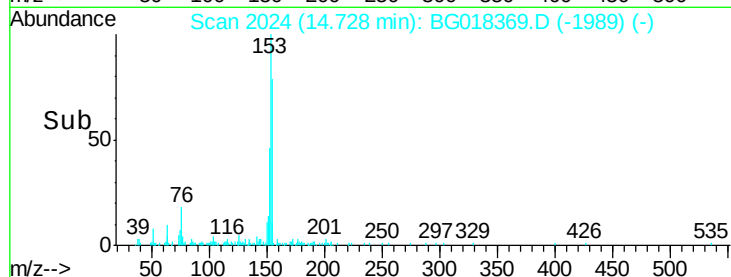
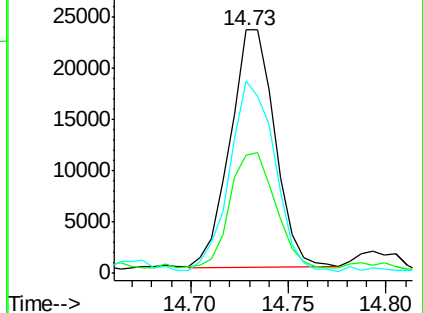
154 78.8 68.6 103.0



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 1.13 ng/ul

RT: 15.06 min Scan# 2081

Delta R.T. 0.01 min

Lab File: BG018369.D

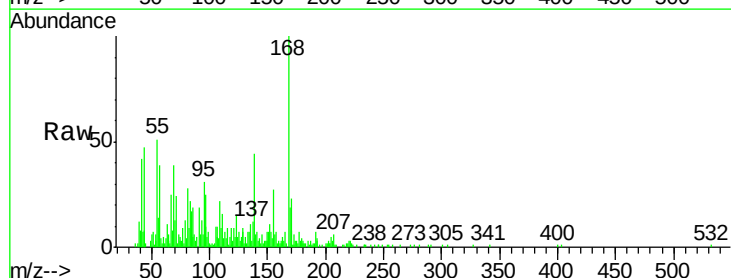
Acq: 11 Aug 2015 00:44

Tgt Ion:168 Resp: 34219

Ion Ratio Lower Upper

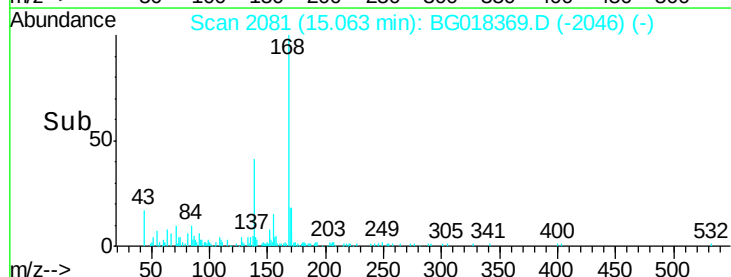
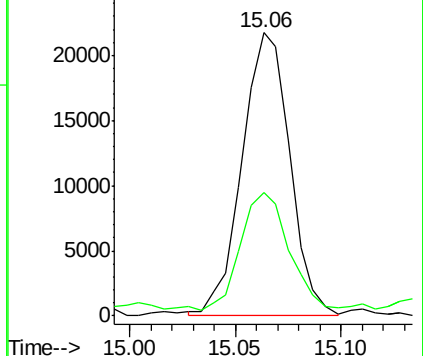
168 100

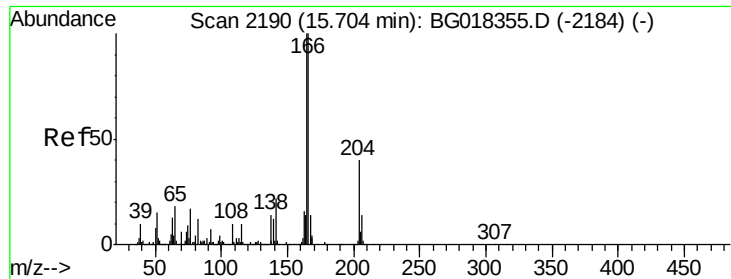
139 43.8 29.7 44.5



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 1.40 ng/ul

RT: 15.72 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

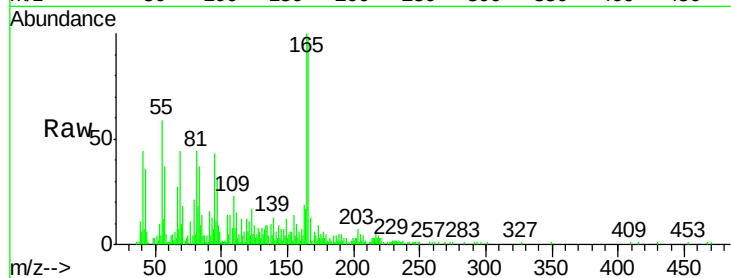
Tgt Ion:166 Resp: 36237

Ion Ratio Lower Upper

166 100

165 102.5 82.6 124.0

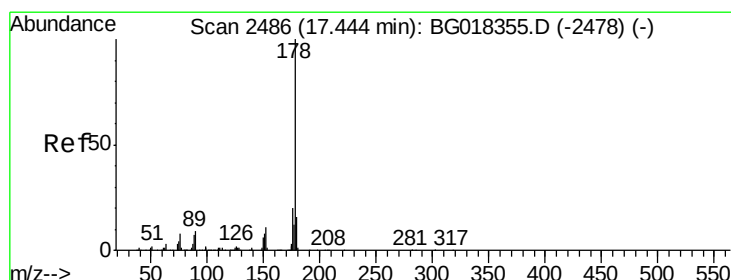
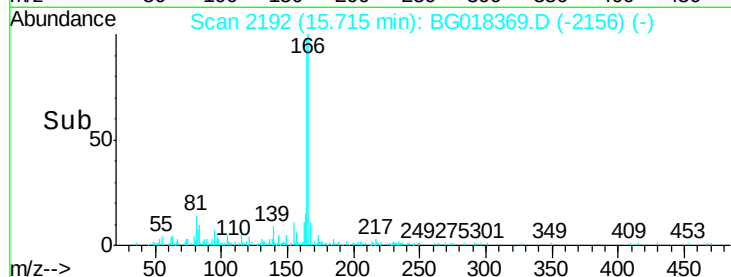
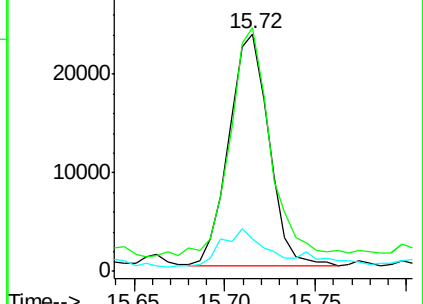
167 13.8 11.4 17.0



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: 10.17 ng/ul

RT: 17.45 min Scan# 2488

Delta R.T. 0.01 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

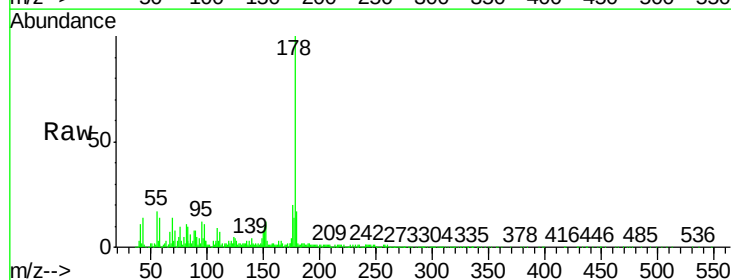
Tgt Ion:178 Resp: 341259

Ion Ratio Lower Upper

178 100

179 17.1 13.7 20.5

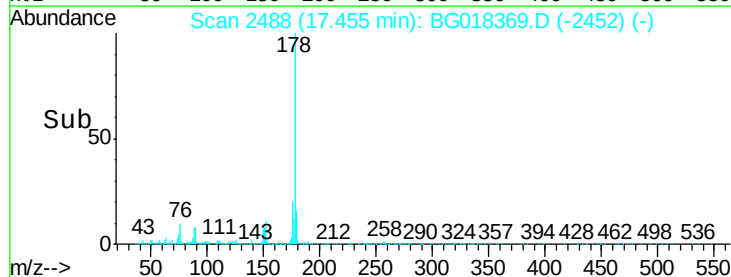
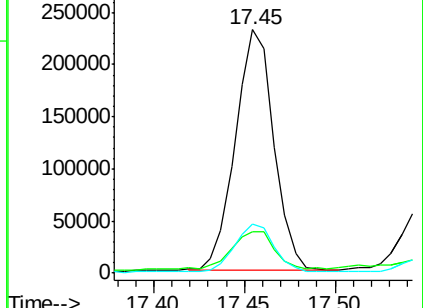
176 20.4 16.6 24.8

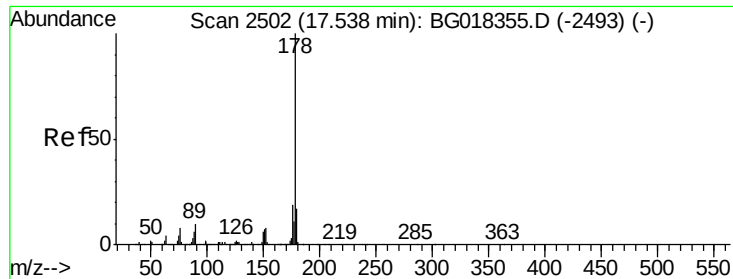


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 10.02 ng/ul

RT: 17.45 min Scan# 2488

Delta R.T. -0.08 min

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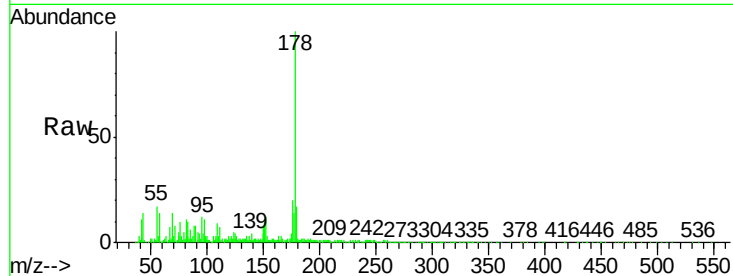
Tgt Ion:178 Resp: 342752

Ion Ratio Lower Upper

178 100

179 17.1 13.0 19.4

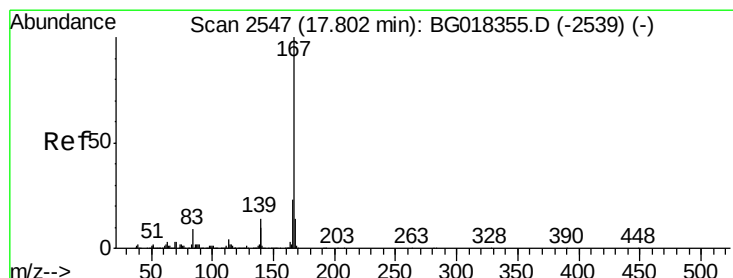
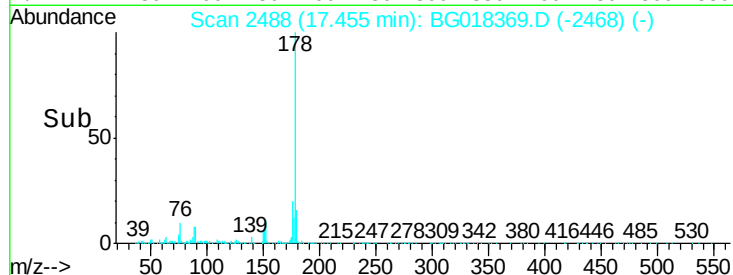
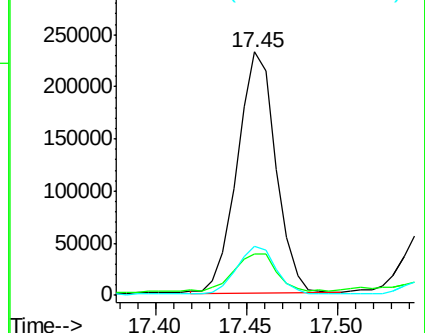
176 20.4 16.0 24.0



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: 1.31 ng/ul

RT: 17.81 min Scan# 2549

Delta R.T. 0.02 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

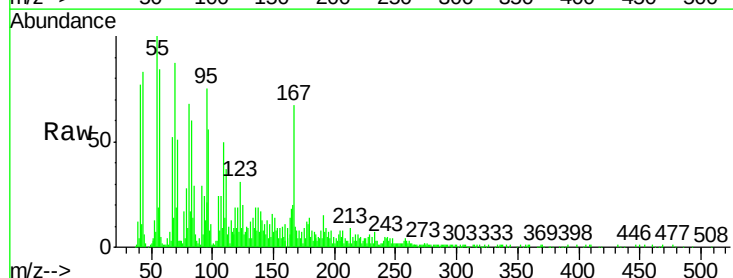
Tgt Ion:167 Resp: 39356

Ion Ratio Lower Upper

167 100

166 30.7 18.9 28.3#

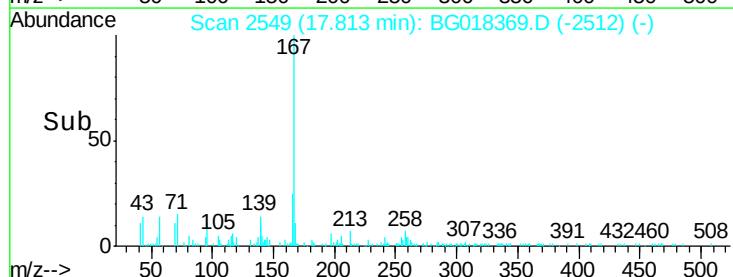
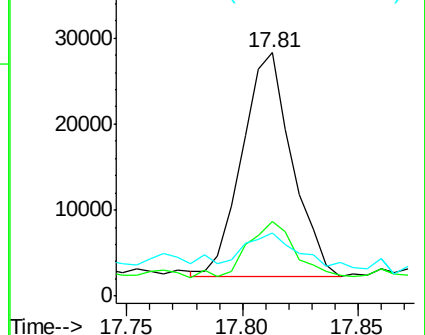
139 26.0 10.1 15.1#

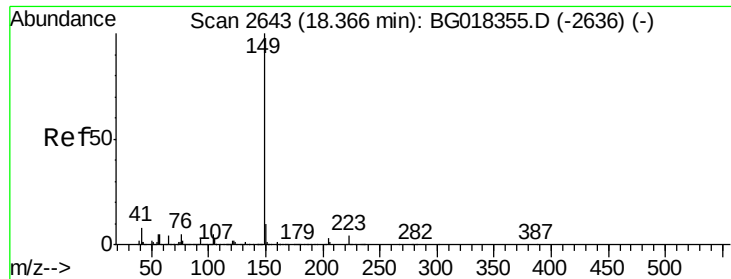


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Di-n-butylphthalate

Concen: 3.32 ng/ul

RT: 18.37 min Scan# 2644

Delta R.T. 0.01 min

Lab File: BG018369.D

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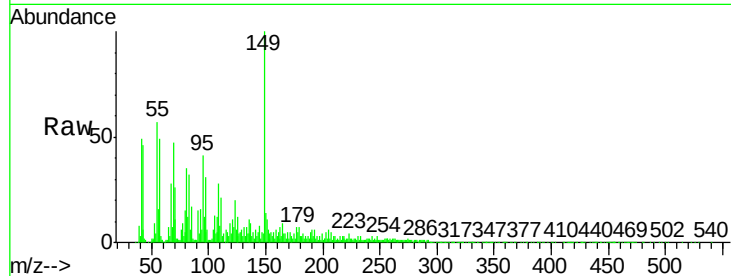
Tgt Ion:149 Resp: 130086

Ion Ratio Lower Upper

149 100

150 13.8 7.5 11.3#

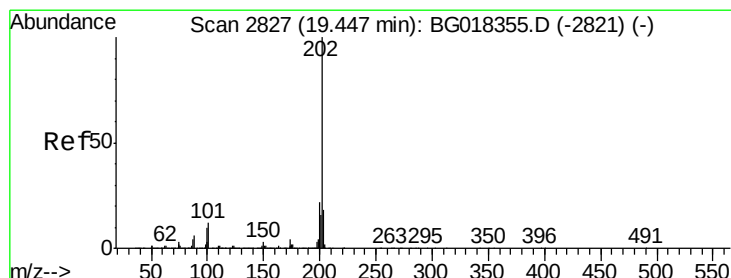
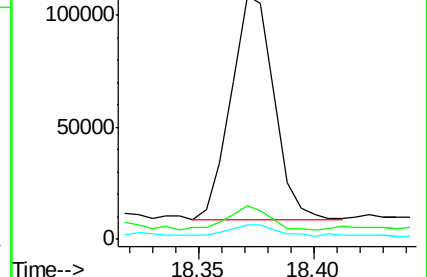
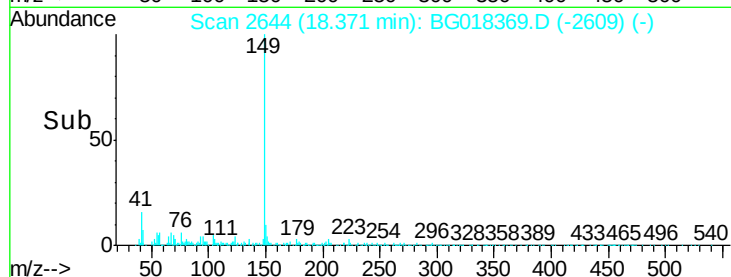
104 6.2 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 21.62 ng/ul

RT: 19.46 min Scan# 2830

Delta R.T. 0.02 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

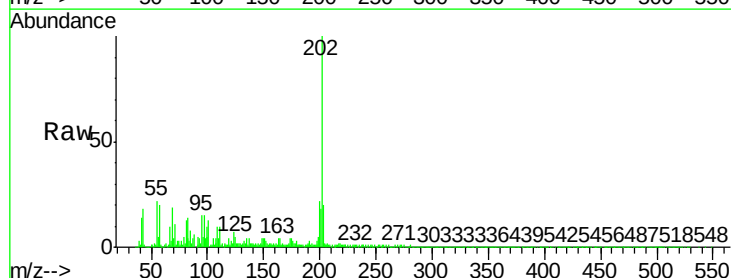
Tgt Ion:202 Resp: 774777

Ion Ratio Lower Upper

202 100

101 12.7 9.7 14.5

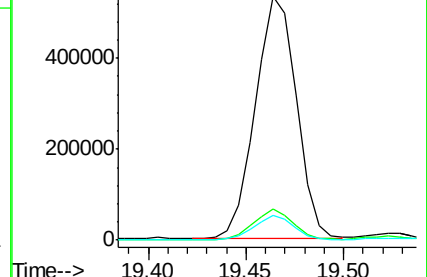
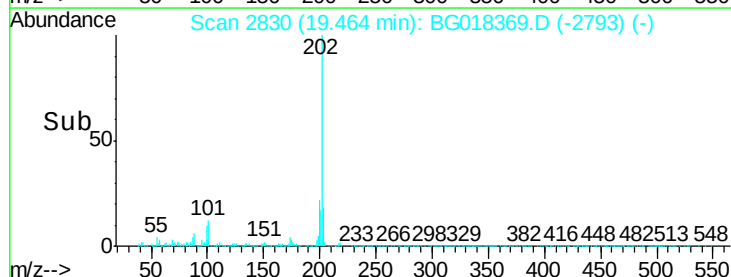
100 10.0 7.8 11.8

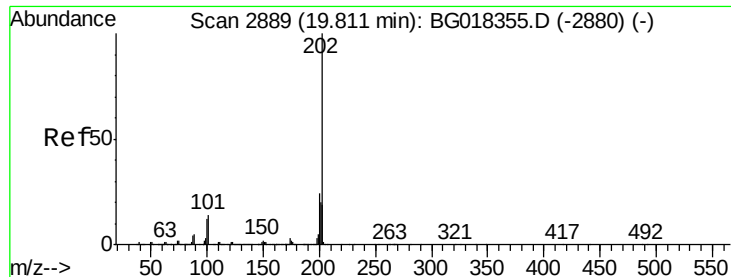


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

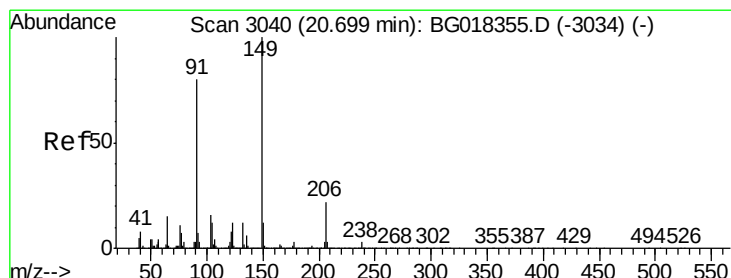
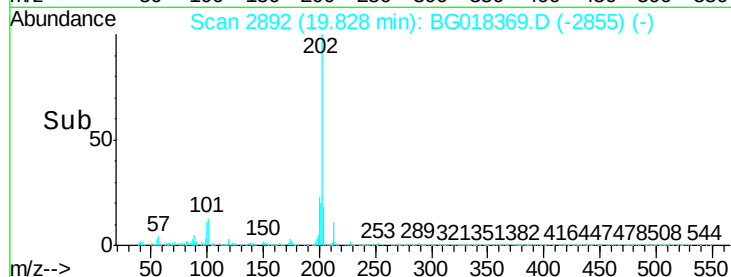
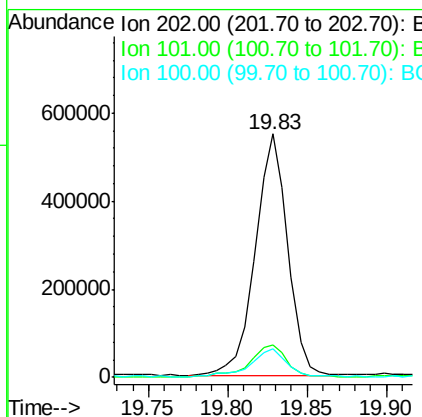
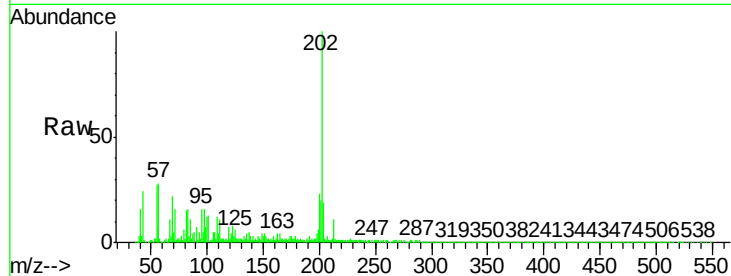




#80
 Pyrene
 Concen: 21.49 ng/ul
 RT: 19.83 min Scan# 2892
 Delta R.T. 0.02 min
 Lab File: BG018369.D
 Acq: 11 Aug 2015 00:44

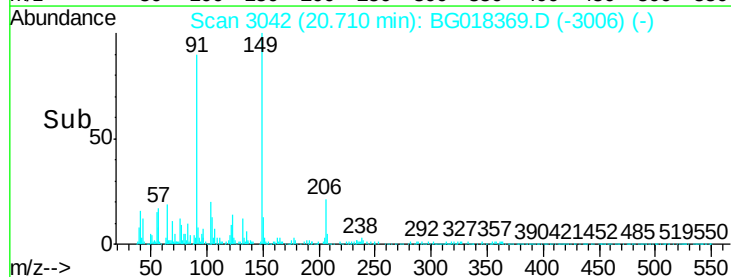
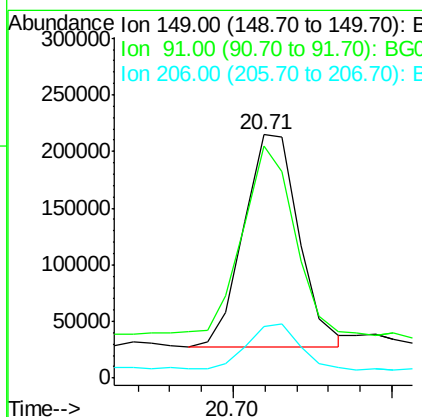
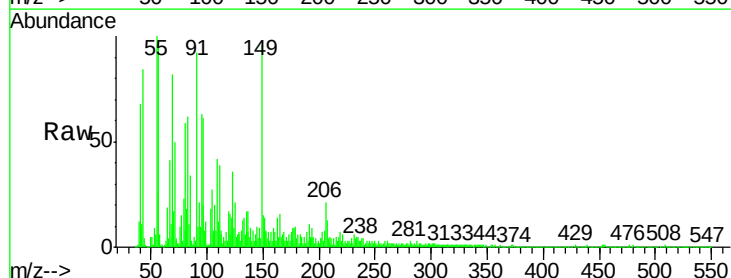
Instrument :
 BNA_G
 ClientSampleId :
 C01W6

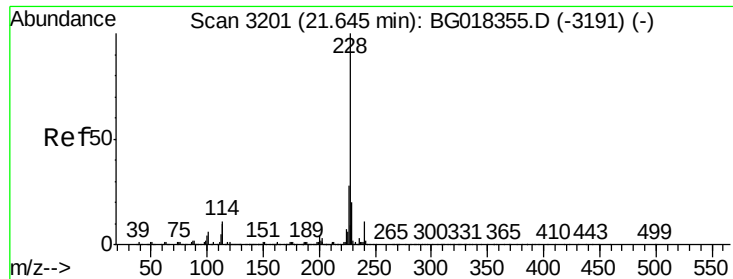
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	11.0	16.4
100	11.6	9.8	14.6



#81
 Butylbenzylphthalate
 Concen: 14.95 ng/ul
 RT: 20.71 min Scan# 3042
 Delta R.T. 0.01 min
 Lab File: BG018369.D
 Acq: 11 Aug 2015 00:44

Tgt Ion	Ratio	Lower	Upper
149	100		
91	95.5	57.9	86.9#
206	21.3	17.9	26.9





#83

Benzo(a)anthracene

Concen: 12.83 ng/ul

RT: 21.67 min Scan# 3205

Delta R.T. 0.03 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

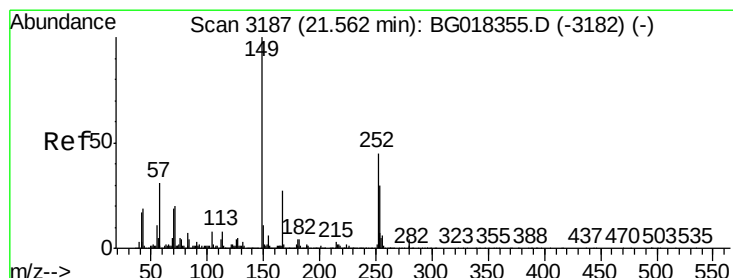
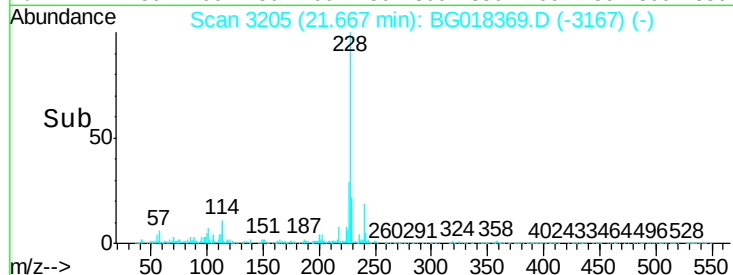
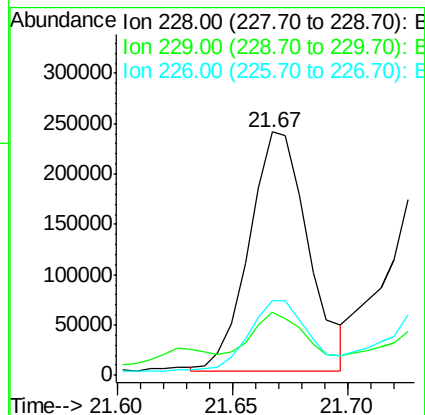
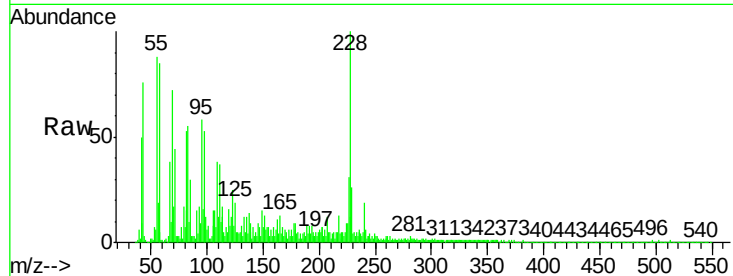
Tgt Ion:228 Resp: 424213

Ion Ratio Lower Upper

228 100

229 26.2 15.5 23.3#

226 30.9 22.1 33.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 174.08 ng/ul

RT: 21.59 min Scan# 3192

Delta R.T. 0.03 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

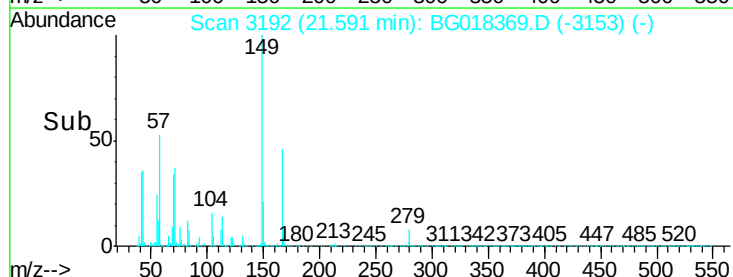
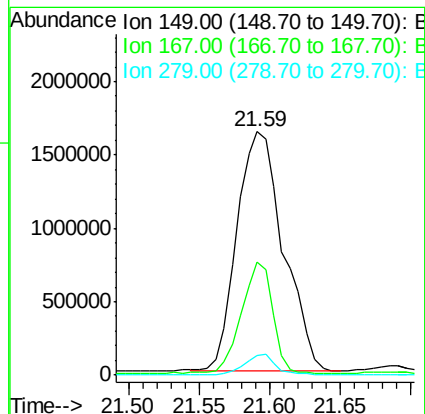
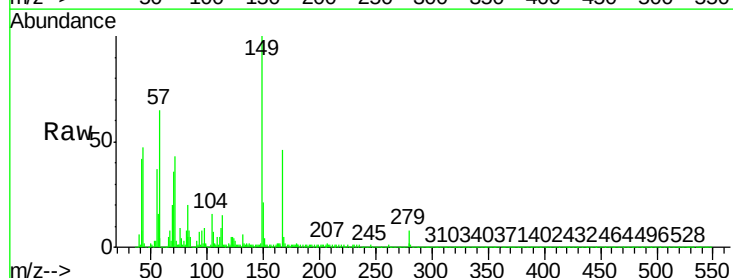
Tgt Ion:149 Resp: 3752683

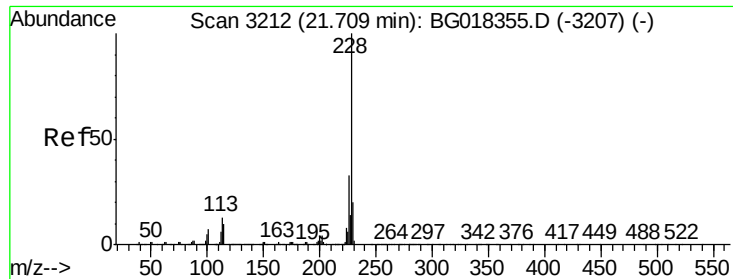
Ion Ratio Lower Upper

149 100

167 46.3 22.2 33.2#

279 8.3 2.8 4.2#





#85

Chrysene

Concen: 13.93 ng/ul

RT: 21.74 min Scan# 3217

Delta R.T. 0.03 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

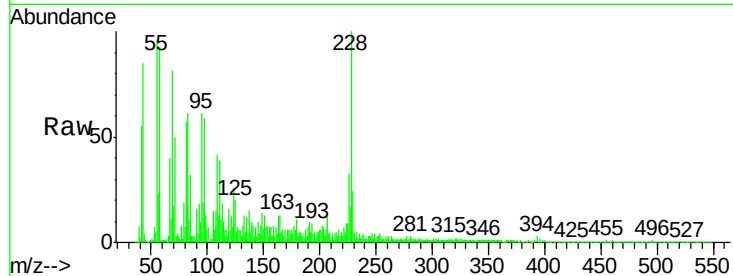
Tgt Ion:228 Resp: 430656

Ion Ratio Lower Upper

228 100

226 33.4 26.5 39.7

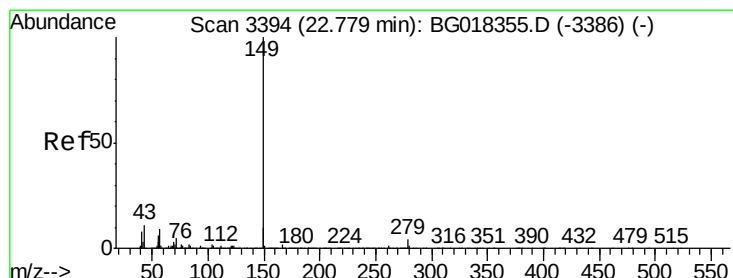
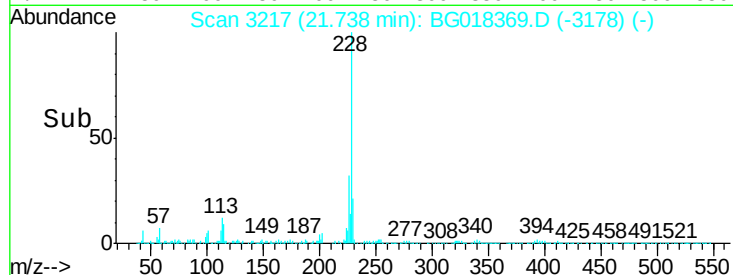
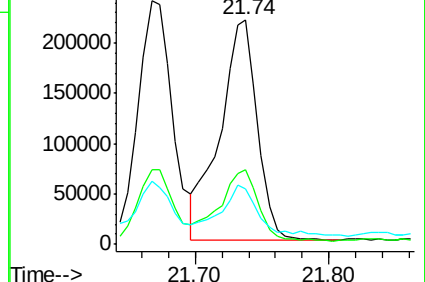
229 24.5 16.9 25.3



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



#87

Di-n-octyl phthalate

Concen: 22.97 ng/ul

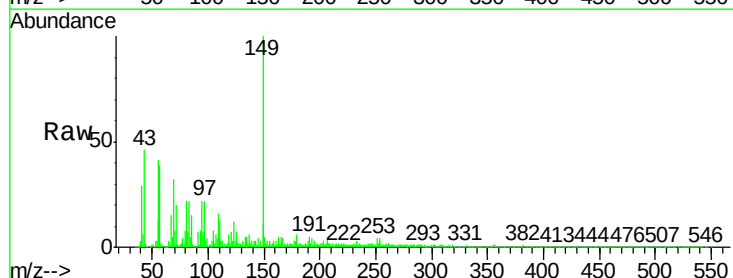
RT: 22.85 min Scan# 3406

Delta R.T. 0.07 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

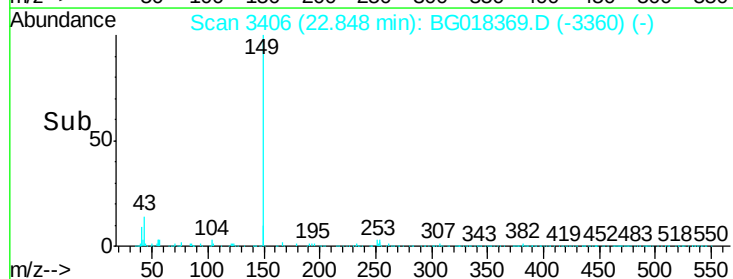
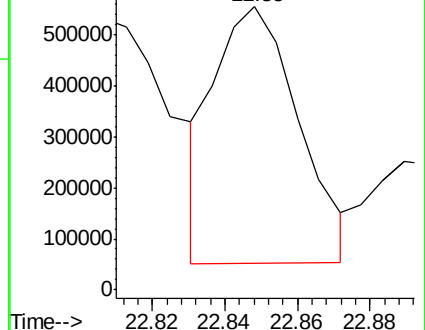
Tgt Ion:149 Resp: 805543

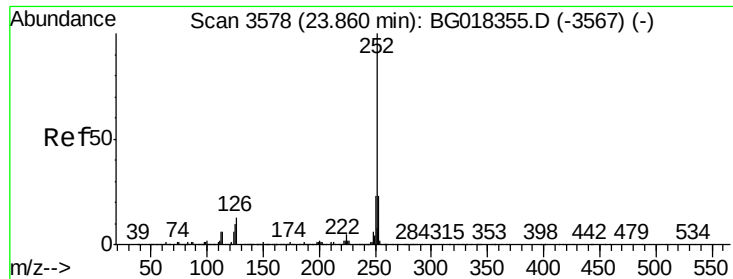


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 147.00 (146.70 to 147.70): E

Ion 151.00 (150.70 to 151.70): E





#88

Benzo(b)fluoranthene

Concen: 20.09 ng/ul

RT: 23.91 min Scan# 3587

Delta R.T. 0.06 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

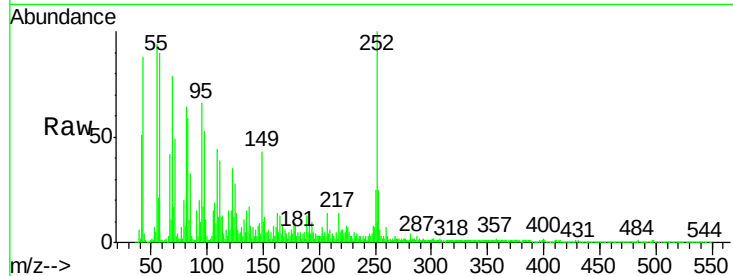
Tgt Ion:252 Resp: 685914

Ion Ratio Lower Upper

252 100

253 25.3 18.1 27.1

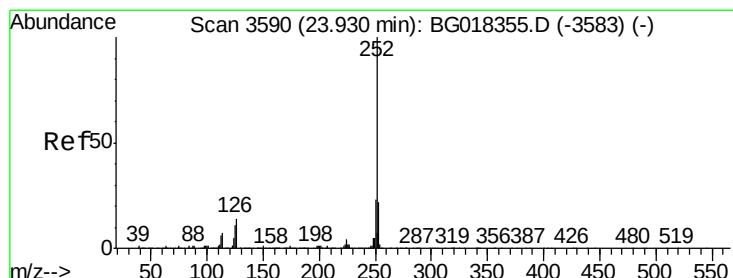
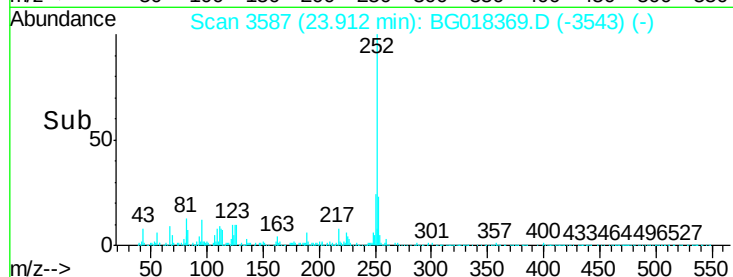
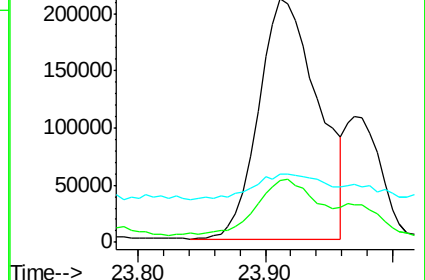
125 28.2 8.3 12.5#



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: 6.22 ng/ul

RT: 23.97 min Scan# 3597

Delta R.T. 0.05 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

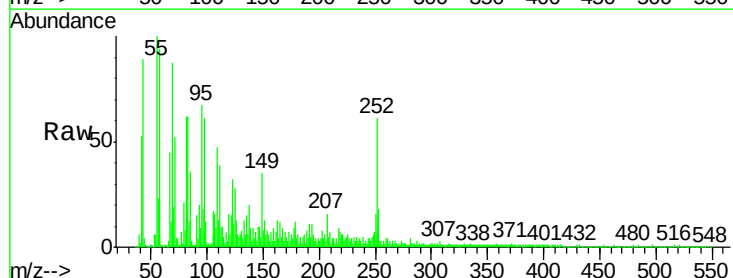
Tgt Ion:252 Resp: 204379

Ion Ratio Lower Upper

252 100

253 29.6 17.8 26.6#

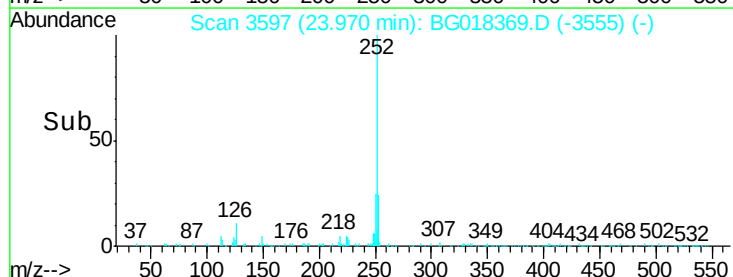
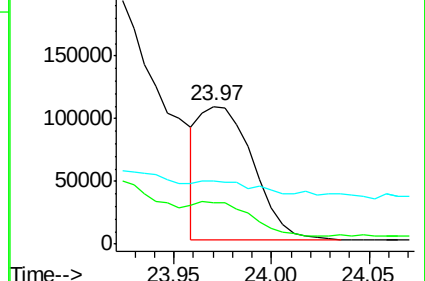
125 45.9 9.0 13.4#

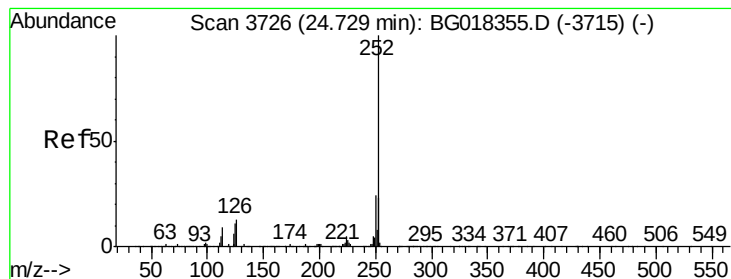


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 13.09 ng/ul

RT: 24.79 min Scan# 3737

Delta R.T. 0.07 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

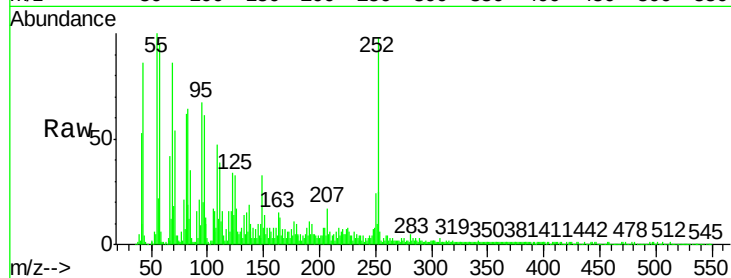
Tgt Ion:252 Resp: 425140

Ion Ratio Lower Upper

252 100

253 25.4 17.7 26.5

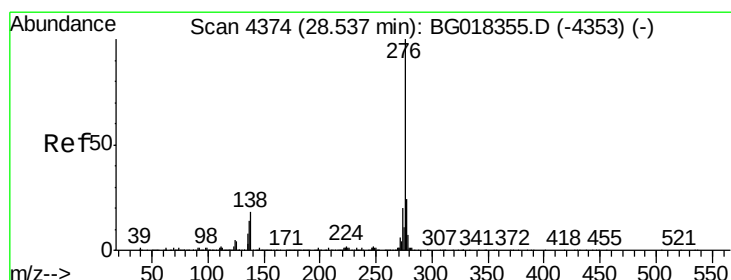
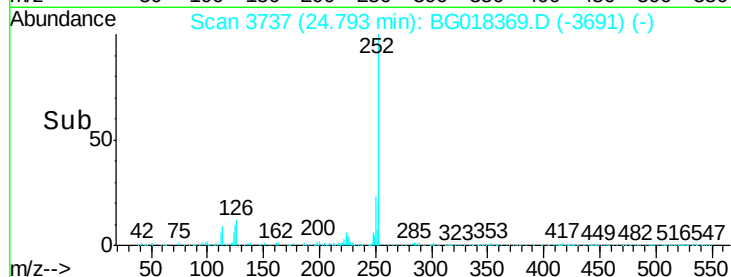
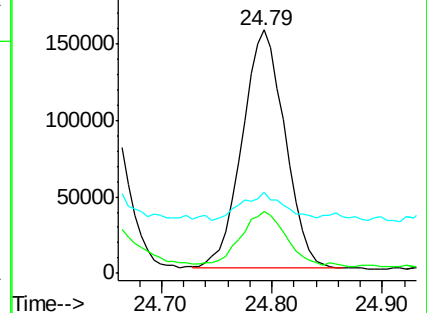
125 33.0 10.2 15.2#



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 7.90 ng/ul

RT: 28.66 min Scan# 4395

Delta R.T. 0.13 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

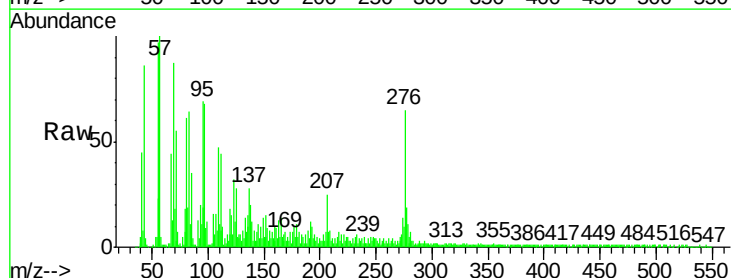
Tgt Ion:276 Resp: 296942

Ion Ratio Lower Upper

276 100

138 31.4 15.8 23.6#

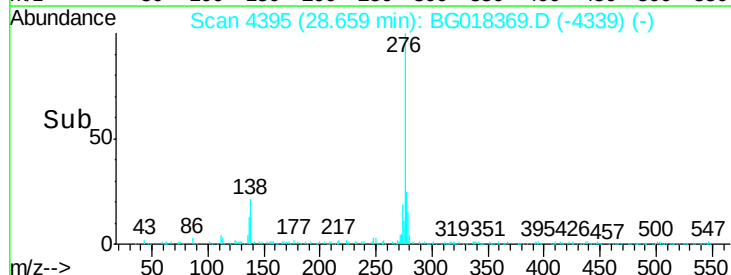
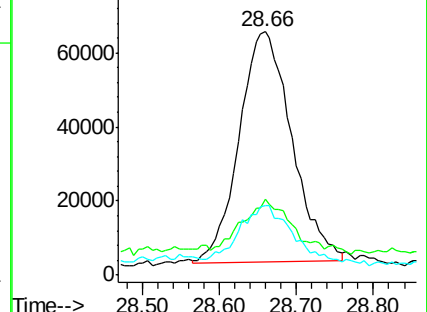
277 28.7 18.9 28.3#

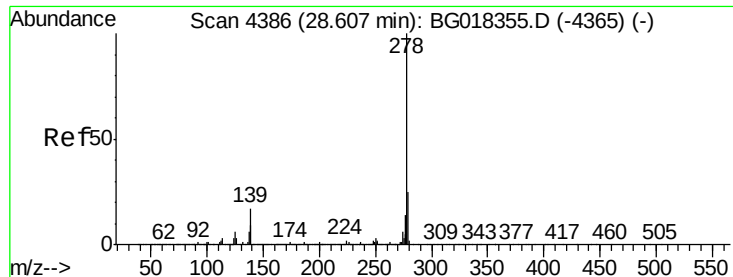


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 1.99 ng/ul

RT: 28.69 min Scan# 4401

Delta R.T. 0.09 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Instrument :

BNA_G

ClientSampleId :

C01W6

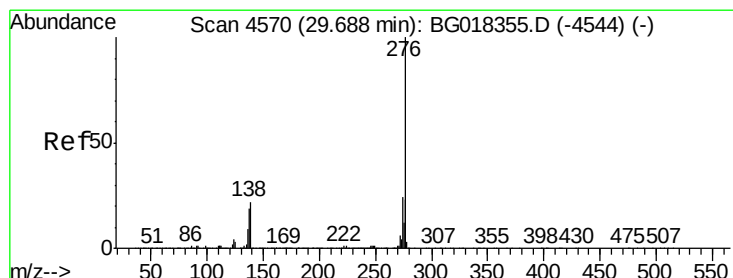
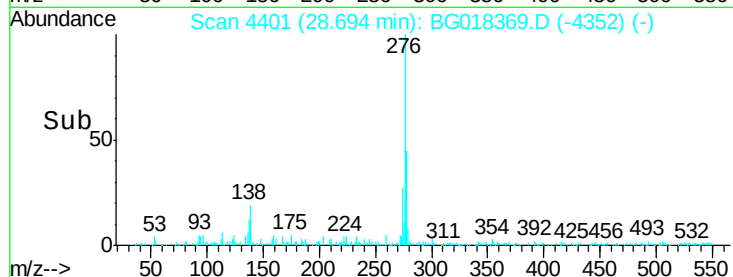
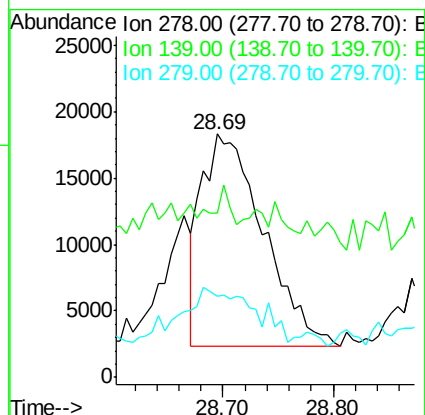
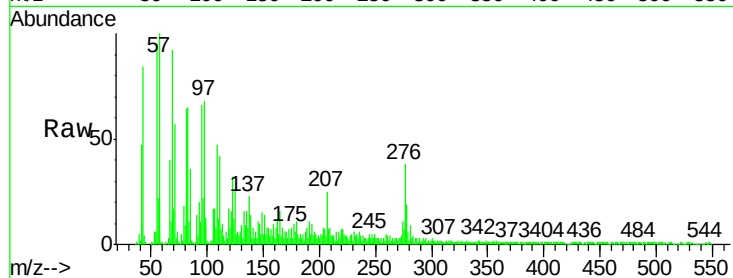
Tgt Ion:278 Resp: 62184

Ion Ratio Lower Upper

278 100

139 67.2 13.8 20.6#

279 33.5 17.8 26.8#



#94

Benzo(g,h,i)perylene

Concen: 5.53 ng/ul

RT: 29.81 min Scan# 4591

Delta R.T. 0.13 min

Lab File: BG018369.D

Acq: 11 Aug 2015 00:44

Tgt Ion:276 Resp: 174353

Ion Ratio Lower Upper

276 100

138 27.0 16.5 24.7#

277 26.4 19.0 28.6

