

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
 Data File : BG023582.D
 Acq On : 10 Aug 2016 7:34
 Operator : UM/SJ
 Sample : H4362-14
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PR001-SS006-0612-01

Quant Time: Aug 10 08:14:15 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 10 05:01:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	694	20.00	ng/ul	0.02
18) Naphthalene-d8	11.00	136	1678	20.00	ng/ul	0.03
35) Acenaphthene-d10	14.78	164	616165	20.00	ng/ul	-0.01
61) Phenanthrene-d10	17.55	188	1463370	20.00	ng/ul	0.00
75) Chrysene-d12	21.86	240	1415011	20.00	ng/ul	0.00
83) Perylene-d12	25.27	264	1377282	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	8044	492.78	ng/uL	0.00
5) Phenol-d5	7.34	99	1224	17.51	ng/ul	0.05
7) Bis-(2-Chloroethyl)ether-d	7.50	67	371	8.28	ng/ul	0.05
9) 2-Chlorophenol-d4	7.69	132	2267	47.53	ng/ul	0.02
13) 4-Methylphenol-d8	8.88	113	1131	20.72	ng/ul	0.03
19) Nitrobenzene-d5	9.33	128	1374	103.88	ng/ul	0.02
22) 2-Nitrophenol-d4	10.10	143	940	61.88	ng/ul	0.06
26) 2,4-Dichlorophenol-d3	10.57	165	327913	11443.98	ng/ul	-0.02
29) 4-Chloroaniline-d4	11.15	131	1763	52.44	ng/ul	0.05
43) Dimethylphthalate-d6	14.18	166	1088989	21.59	ng/ul	-0.01
46) Acenaphthylene-d8	14.47	160	1273633	22.43	ng/ul	-0.01
51) 4-Nitrophenol-d4	15.00	143	186095	21.61	ng/ul	0.00
57) Fluorene-d10	15.78	176	1006124	21.58	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.90	200	194973	20.77	ng/ul	0.00
70) Anthracene-d10	17.65	188	1496147	22.69	ng/ul	0.00
76) Pyrene-d10	19.94	212	1652483	23.07	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.03	264	1484265	23.81	ng/ul	0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.55	88	802	46.83	ng/uL#	52
4) Benzaldehyde	7.30	77	240	5.63	ng/ul#	41
6) Phenol	7.37	94	390	5.36	ng/ul#	50
8) Bis(2-Chloroethyl)ether	7.53	93	1364	25.81	ng/ul#	66
10) 2-Chlorophenol	7.64	128	83	1.71	ng/ul#	1
11) 2-Methylphenol	8.38	108	354	6.46	ng/ul#	28
12) 2,2'-oxybis(1-Chloropropan	8.67	45	123	1.70	ng/ul#	64
14) Acetophenone	8.95	105	3078	35.16	ng/ul#	64
15) N-Nitroso-di-n-propylamine	8.95	70	97	1.84	ng/ul#	52
16) 4-Methylphenol	8.91	108	217	3.53	ng/ul	100
17) Hexachloroethane	9.25	117	122	5.82	ng/ul#	10
20) Nitrobenzene	9.39	77	59	1.52	ng/ul#	36
21) Isophorone	9.89	82	375	5.26	ng/ul#	64
23) 2-Nitrophenol	10.14	139	94	5.73	ng/ul#	42
25) Bis(2-Chloroethoxy)methane	10.37	93	272	6.61	ng/ul#	49
27) 2,4-Dichlorophenol	10.59	162	384	13.29	ng/ul#	1
28) Naphthalene	11.08	128	297	3.49	ng/ul#	1
30) 4-Chloroaniline	11.11	127	60	1.80	ng/ul#	1
32) Caprolactam	11.92	113	416	34.67	ng/ul#	49
33) 4-Chloro-3-methylphenol	12.07	107	182	4.89	ng/ul#	15
44) Dimethylphthalate	14.22	163	888958	17.79	ng/ul	99
69) Phenanthrene	17.59	178	112097	1.48	ng/ul	98
74) Fluoranthene	19.60	202	245185	3.16	ng/ul#	93

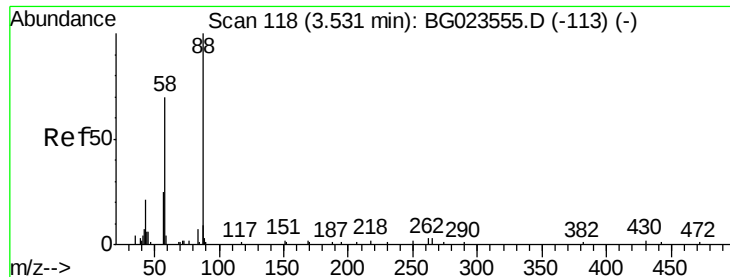
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080916\
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QLast Update : Wed Aug 10 05:01:49 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Pyrene	19.97	202	229734	2.63	ng/ul#	89
80) Benzo(a)anthracene	21.85	228	90106	1.13	ng/ul	91
82) Chrysene	21.91	228	109481	1.51	ng/ul#	88
85) Benzo(b)fluoranthene	24.18	252	121952	1.56	ng/ul#	93
86) Benzo(k)fluoranthene	24.18	252	121952	1.58	ng/ul	97
88) Benzo(a)pyrene	25.09	252	85754	1.13	ng/ul	94

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



#2

1,4-Dioxane

Concen: 46.83 ng/uL

RT: 3.55 min Scan# 121

Delta R.T. 0.02 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

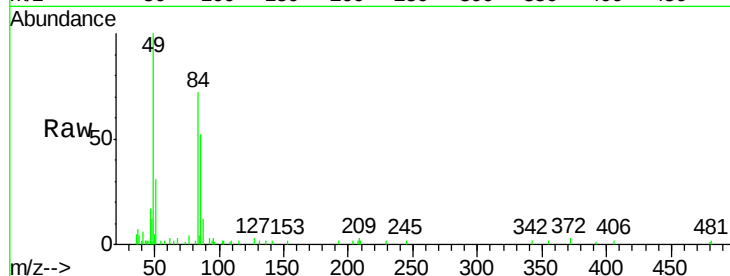
Tgt Ion: 88 Resp: 802

Ion Ratio Lower Upper

88 100

43 12.3 16.6 24.8#

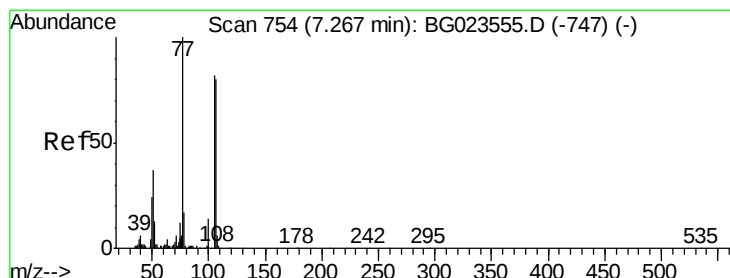
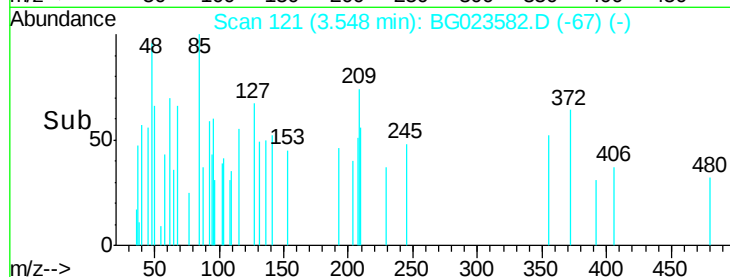
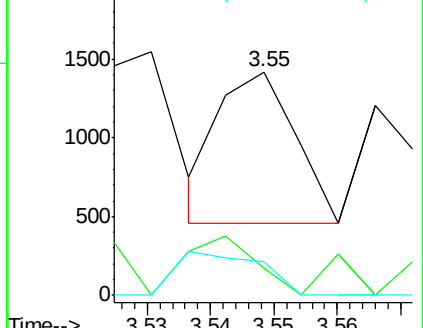
58 14.9 47.2 70.8#



Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 43.00 (42.70 to 43.70): BGC

Ion 58.00 (57.70 to 58.70): BGC



#4

Benzaldehyde

Concen: 5.63 ng/uL

RT: 7.30 min Scan# 759

Delta R.T. 0.03 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

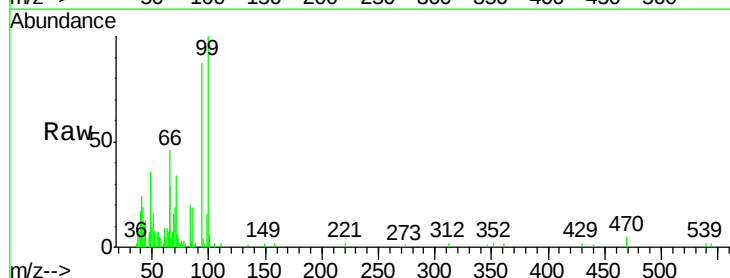
Tgt Ion: 77 Resp: 240

Ion Ratio Lower Upper

77 100

105 81.9 83.8 125.8#

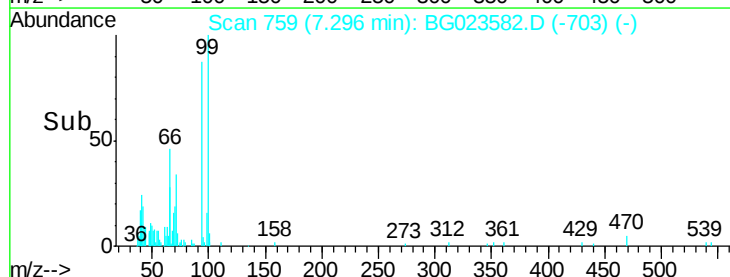
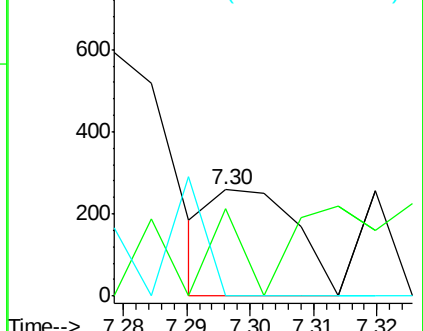
106 0.0 77.9 116.9#

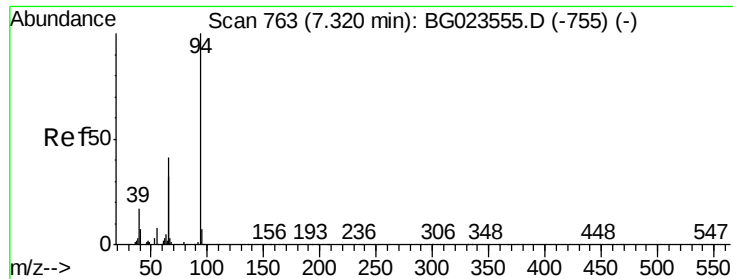


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC





#6

Phenol

Concen: 5.36 ng/ul

RT: 7.37 min Scan# 772

Delta R.T. 0.05 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

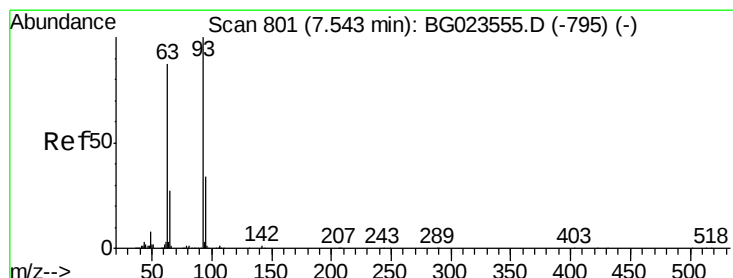
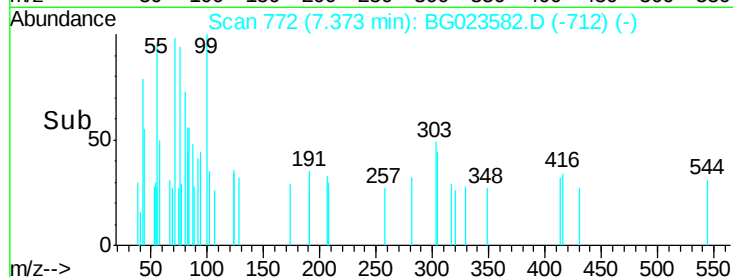
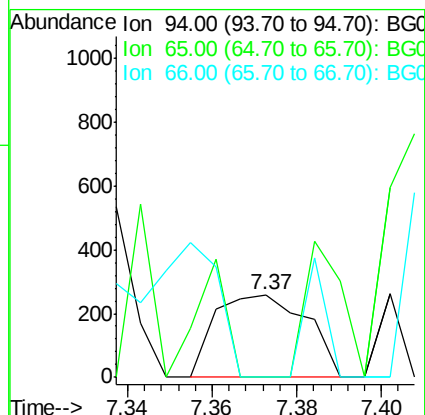
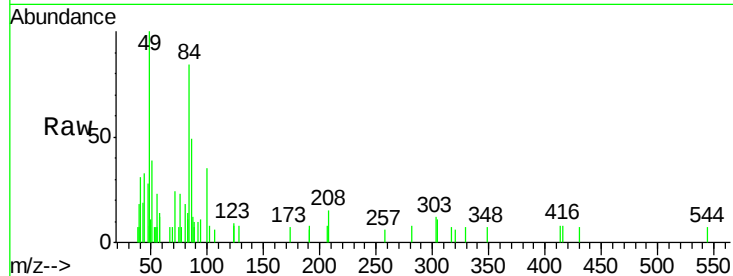
Tgt Ion: 94 Resp: 390

Ion Ratio Lower Upper

94 100

65 0.0 16.8 25.2#

66 0.0 22.6 33.8#



#8

Bis(2-Chloroethyl)ether

Concen: 25.81 ng/ul

RT: 7.53 min Scan# 798

Delta R.T. -0.02 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

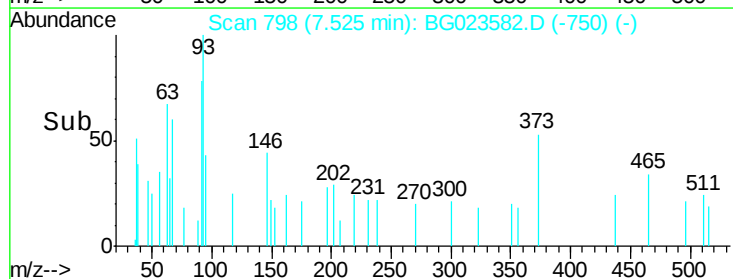
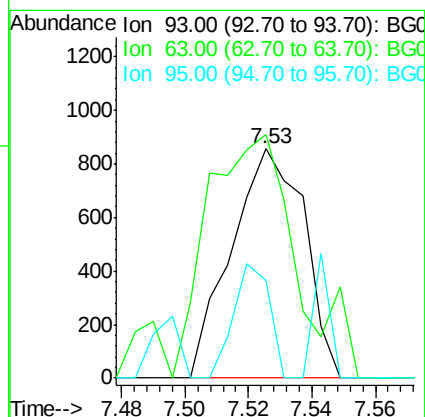
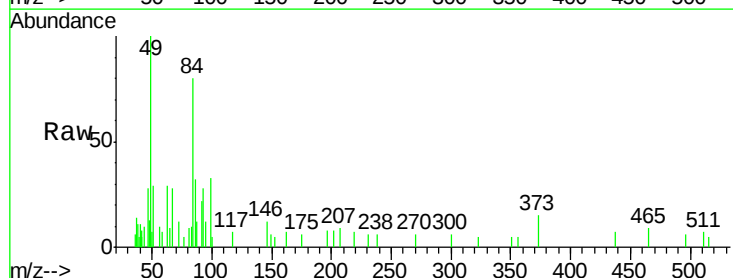
Tgt Ion: 93 Resp: 1364

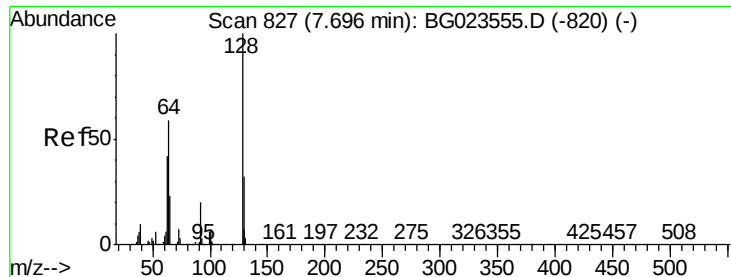
Ion Ratio Lower Upper

93 100

63 106.1 56.0 84.0#

95 42.6 27.7 41.5#

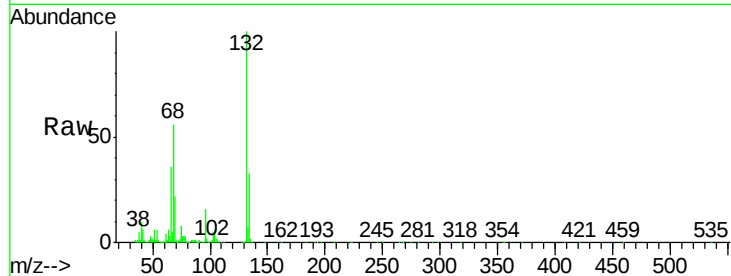




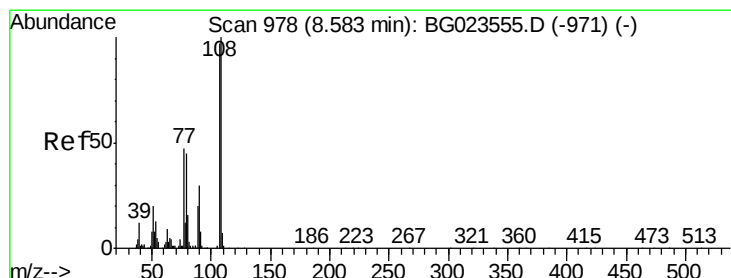
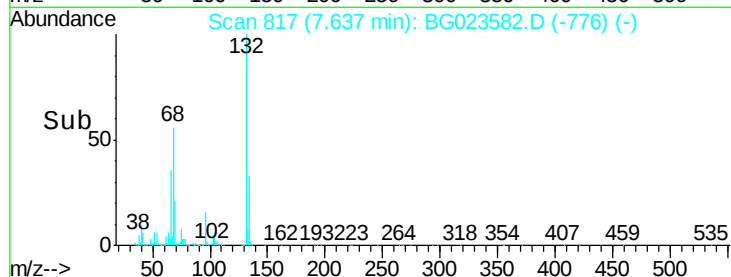
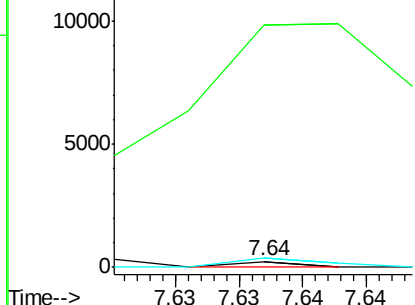
#10
2-Chlorophenol
Concen: 1.71 ng/ul
RT: 7.64 min Scan# 817
Delta R.T. -0.06 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0612-01

Tgt Ion:128 Resp: 83
Ion Ratio Lower Upper
128 100
64 4174.2 34.2 51.4#
130 164.0 27.0 40.4#

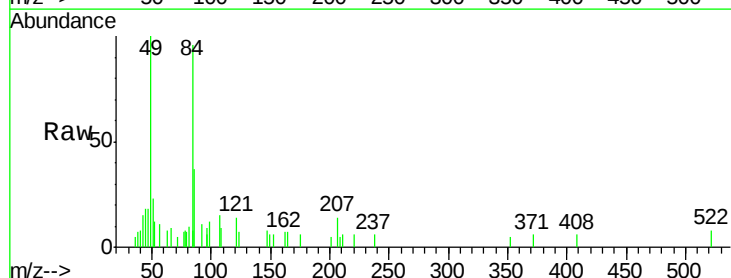


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 64.00 (63.70 to 64.70): BG
Ion 130.00 (129.70 to 130.70): E

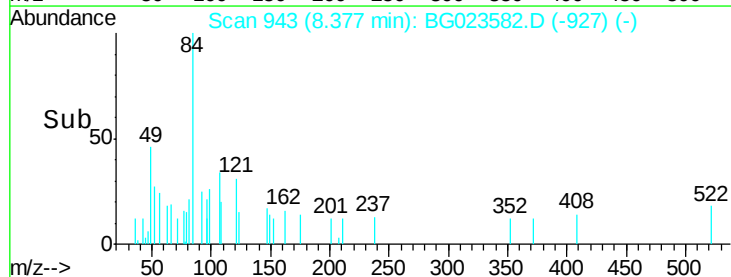
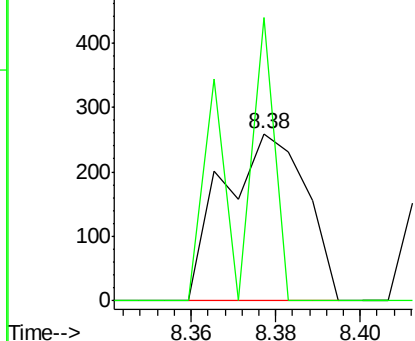


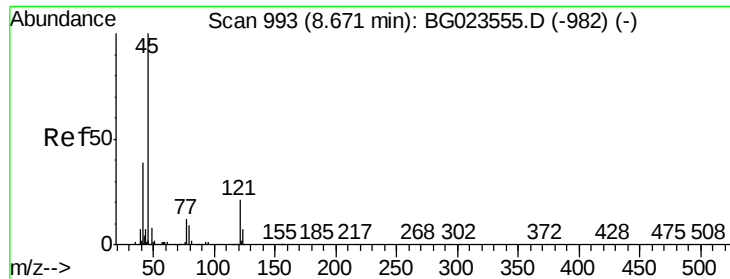
#11
2-Methylphenol
Concen: 6.46 ng/ul
RT: 8.38 min Scan# 943
Delta R.T. -0.21 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

Tgt Ion:108 Resp: 354
Ion Ratio Lower Upper
108 100
107 169.1 78.6 117.8#



Abundance Ion 108.00 (107.70 to 108.70): E
Ion 107.00 (106.70 to 107.70): E

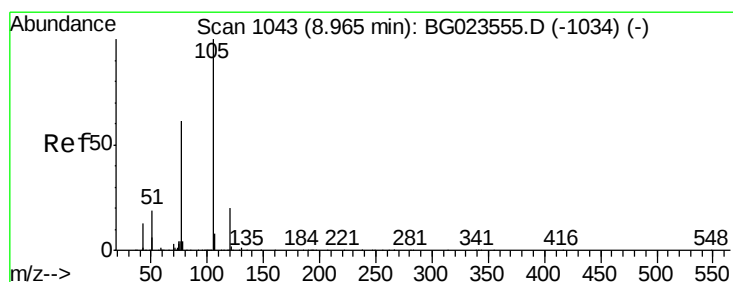
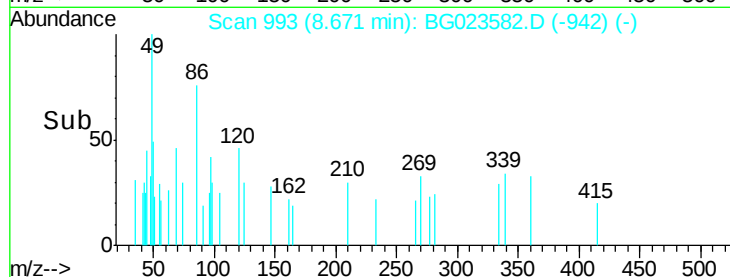
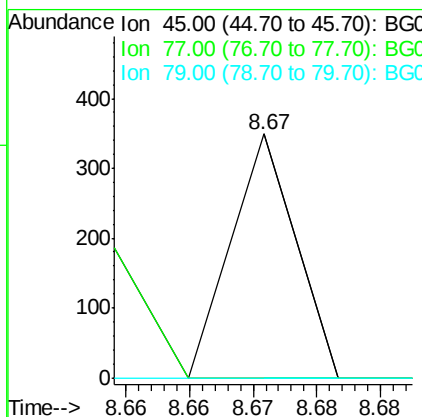
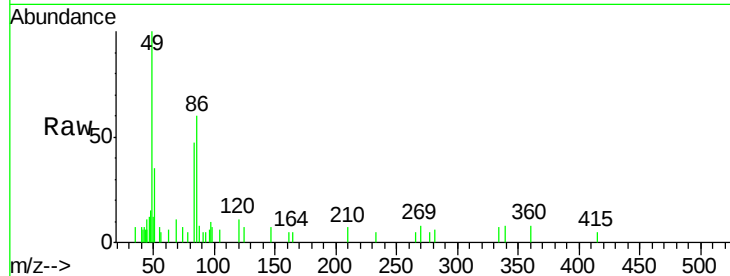




#12
 2,2'-oxybis(1-chloropropane)
 Concen: 1.70 ng/ul
 RT: 8.67 min Scan# 993
 Delta R.T. -0.00 min
 Lab File: BG023582.D
 Acq: 10 Aug 2016 7:34

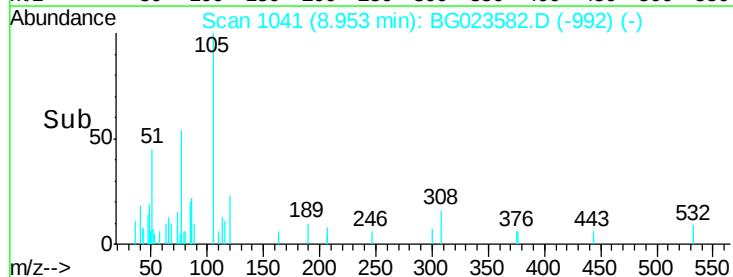
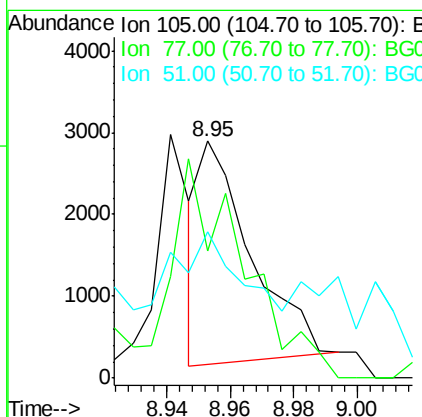
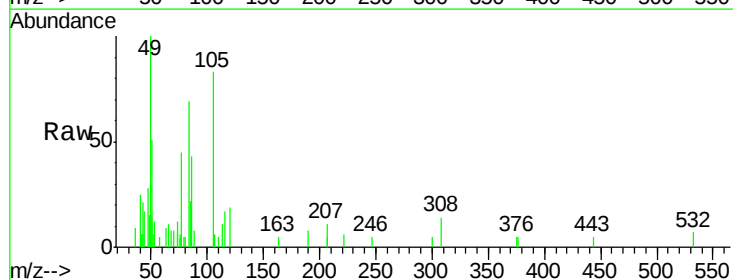
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 ClientSampleId :
 PR001-SS006-0612-01

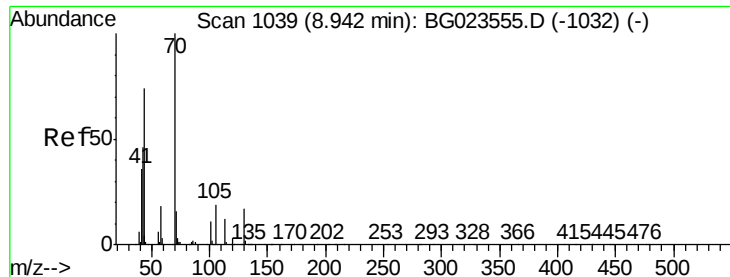
Tgt Ion	Ratio	Lower	Upper
45	100		
77	0.0	13.4	20.2#
79	0.0	10.2	15.4#



#14
 Acetophenone
 Concen: 35.16 ng/ul
 RT: 8.95 min Scan# 1041
 Delta R.T. -0.01 min
 Lab File: BG023582.D
 Acq: 10 Aug 2016 7:34

Tgt Ion	Ratio	Lower	Upper
105	100		
77	53.8	56.1	84.1#
51	61.5	14.6	22.0#

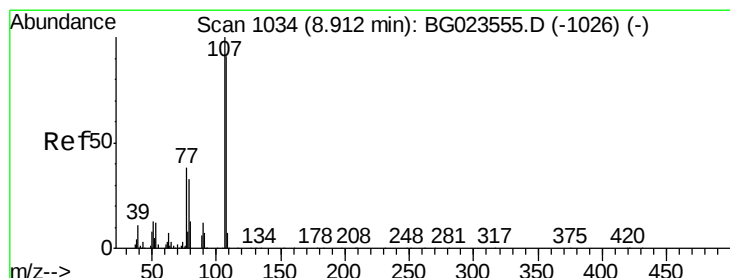
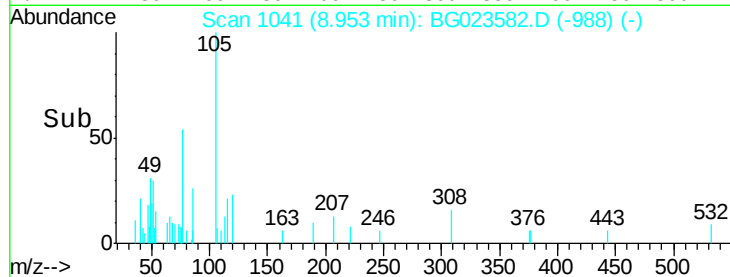
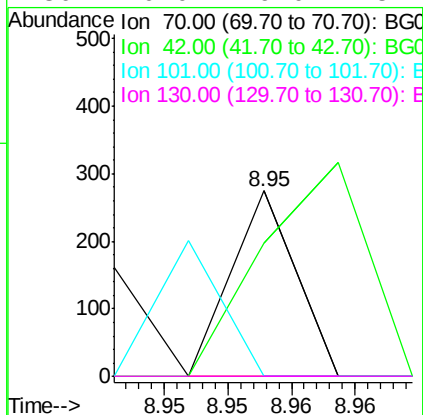
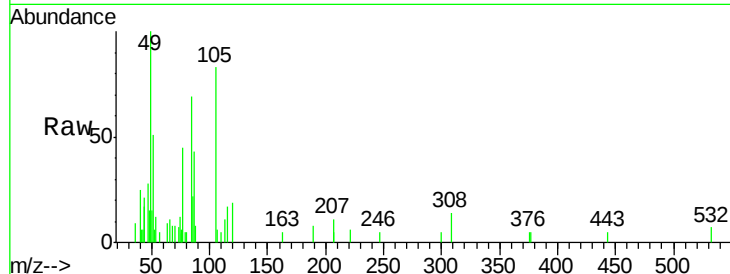




#15
N-Nitroso-di-n-propylamine
Concen: 1.84 ng/ul
RT: 8.95 min Scan# 1041
Delta R.T. 0.01 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

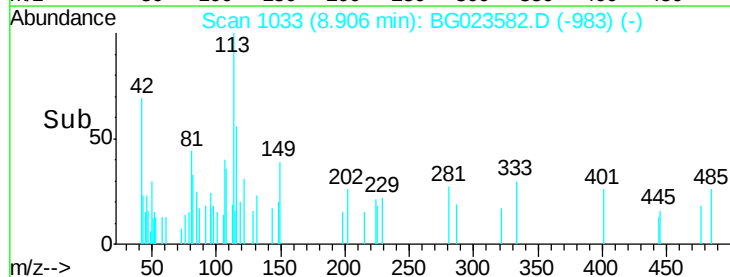
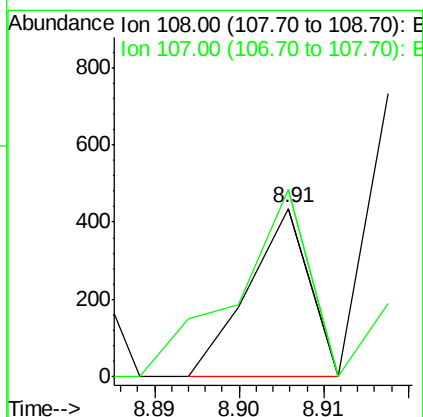
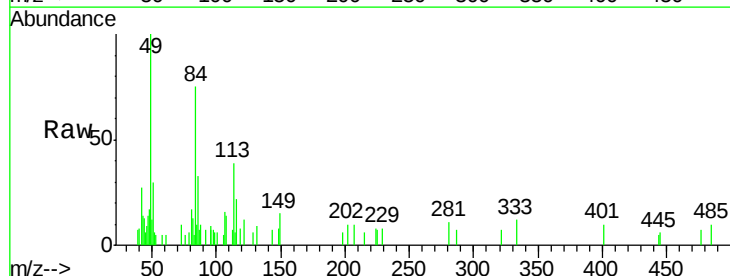
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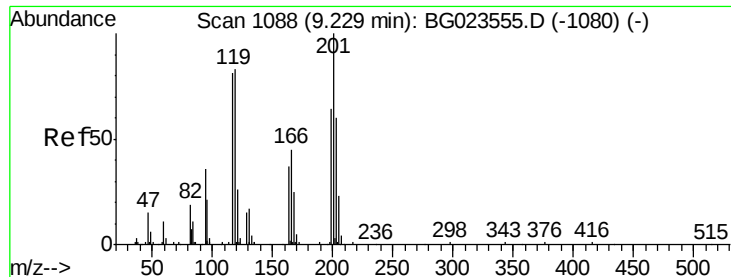
Tgt Ion:	70	Resp:	97
Ion	Ratio	Lower	Upper
70	100		
42	71.6	31.4	47.2#
101	0.0	8.6	13.0#
130	0.0	19.0	28.4#



#16
4-Methylphenol
Concen: 3.53 ng/ul
RT: 8.91 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

Tgt Ion:	108	Resp:	217
Ion	Ratio	Lower	Upper
108	100		
107	110.8	88.3	132.5





#17

Hexachloroethane

Concen: 5.82 ng/ul

RT: 9.25 min Scan# 1092

Delta R.T. 0.02 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

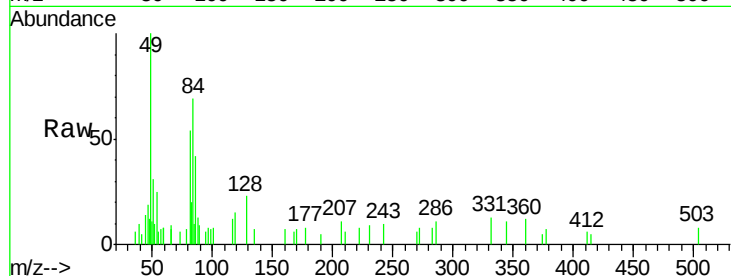
Tgt Ion: 117 Resp: 122

Ion Ratio Lower Upper

117 100

201 0.0 76.8 115.2#

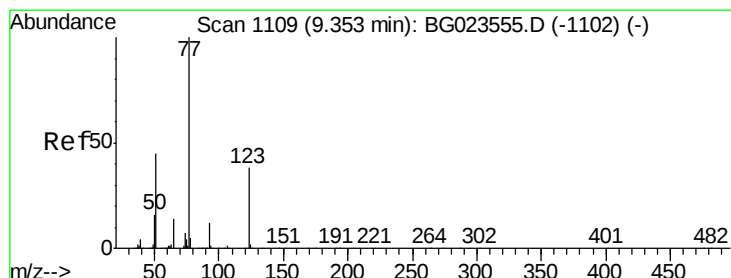
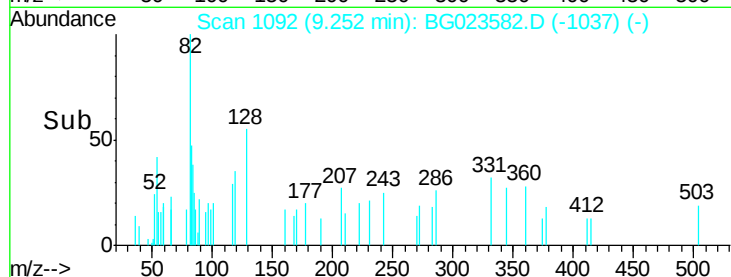
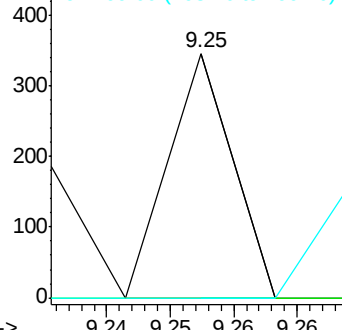
199 0.0 43.5 65.3#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#20

Nitrobenzene

Concen: 1.52 ng/ul

RT: 9.39 min Scan# 1115

Delta R.T. 0.03 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

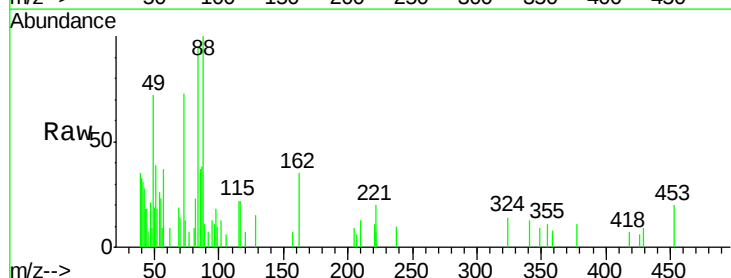
Tgt Ion: 77 Resp: 59

Ion Ratio Lower Upper

77 100

123 0.0 39.5 59.3#

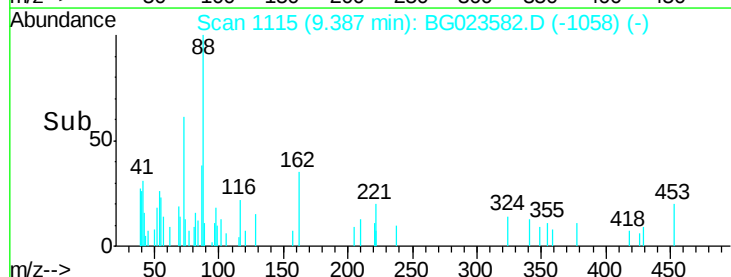
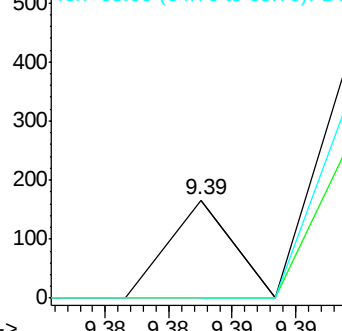
65 0.0 9.0 13.4#

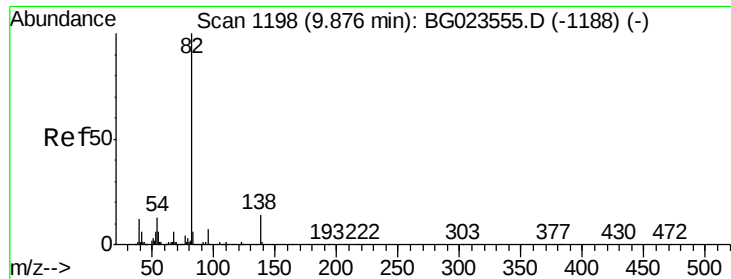


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BGC

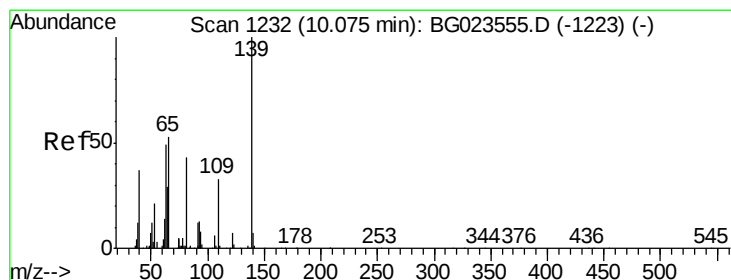
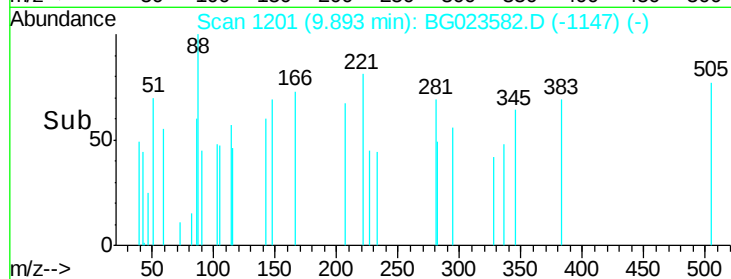
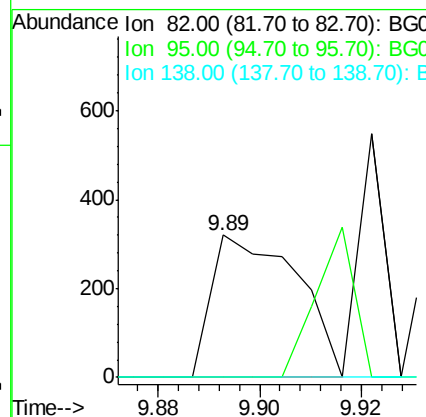
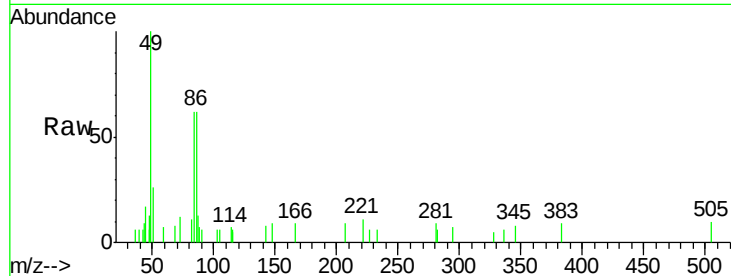




#21
Isophorone
Concen: 5.26 ng/ul
RT: 9.89 min Scan# 1201
Delta R.T. 0.02 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

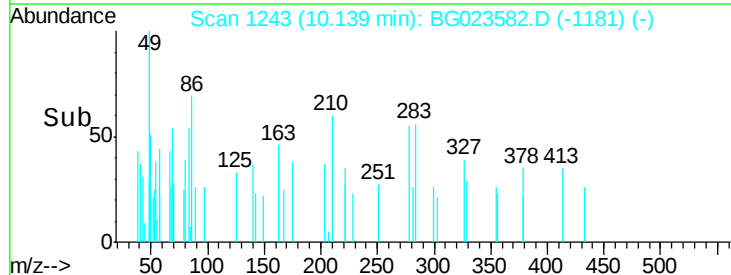
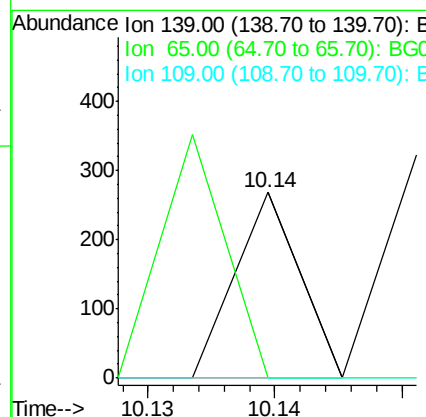
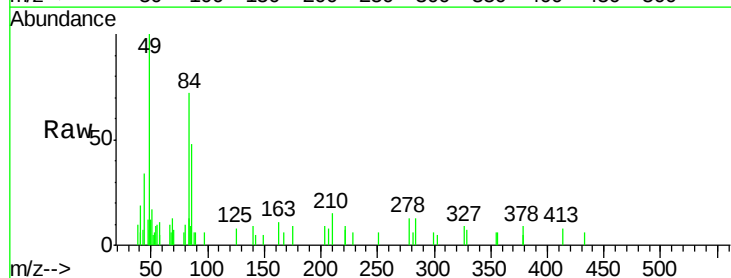
Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0612-01

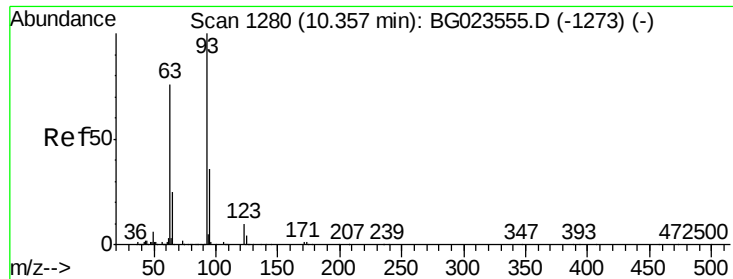
Tgt Ion: 82 Resp: 375
Ion Ratio Lower Upper
82 100
95 0.0 5.1 7.7#
138 0.0 15.0 22.6#



#23
2-Nitrophenol
Concen: 5.73 ng/ul
RT: 10.14 min Scan# 1243
Delta R.T. 0.06 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

Tgt Ion: 139 Resp: 94
Ion Ratio Lower Upper
139 100
65 0.0 31.8 47.8#
109 0.0 17.1 25.7#





#25

Bis(2-Chloroethoxy)methane

Concen: 6.61 ng/ul

RT: 10.37 min Scan# 1283

Delta R.T. 0.02 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

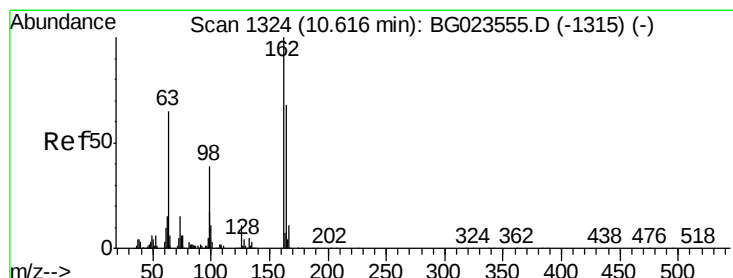
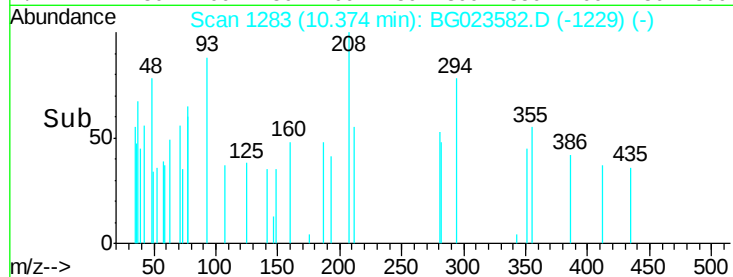
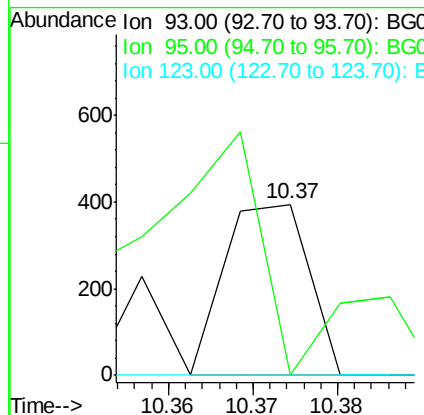
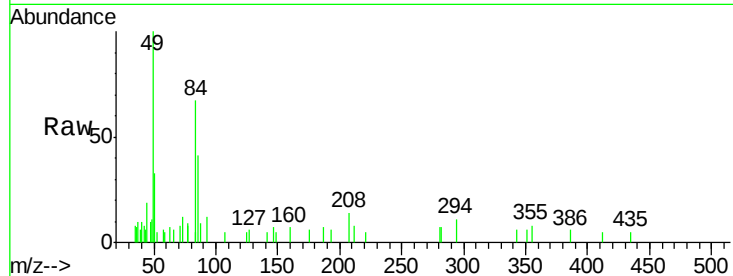
Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

Tgt Ion:	93	Resp:	272
Ion	Ratio	Lower	Upper
93	100		
95	0.0	26.0	39.0#
123	0.0	10.1	15.1#



#27

2,4-Dichlorophenol

Concen: 13.29 ng/ul

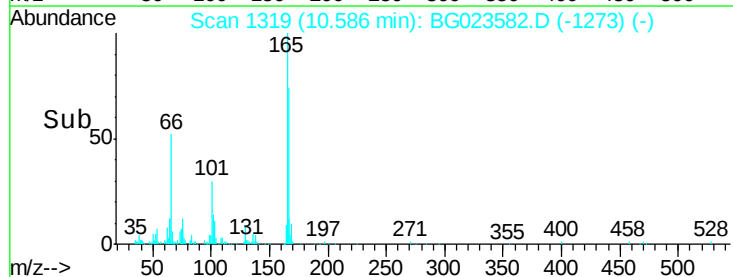
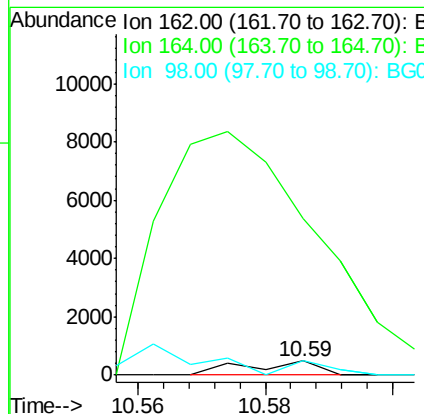
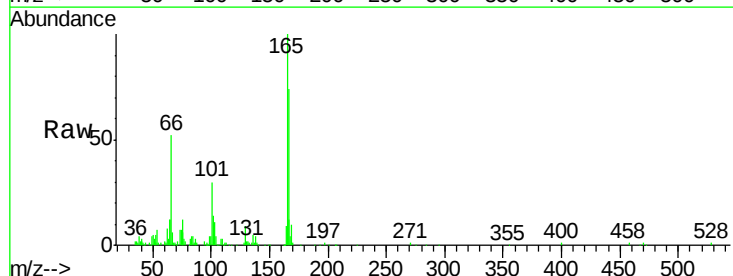
RT: 10.59 min Scan# 1319

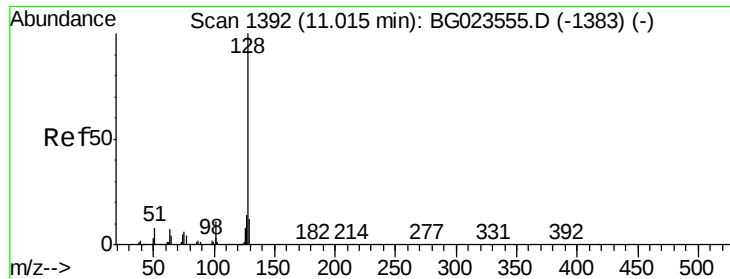
Delta R.T. -0.03 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Tgt Ion:	162	Resp:	384
Ion	Ratio	Lower	Upper
162	100		
164	1129.2	51.6	77.4#
98	104.8	28.3	42.5#

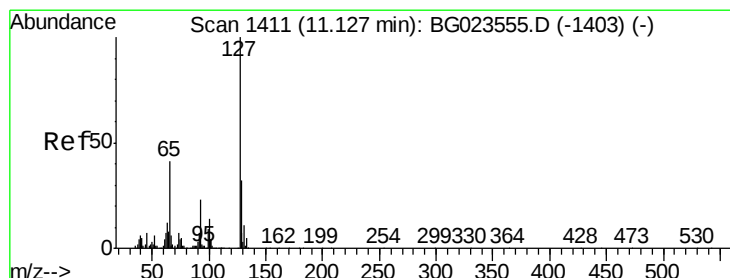
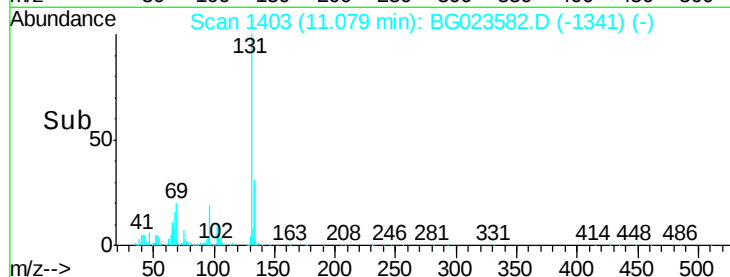
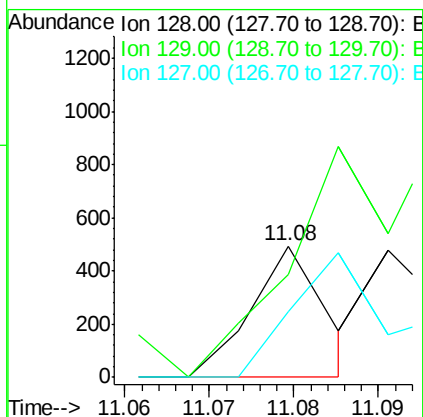
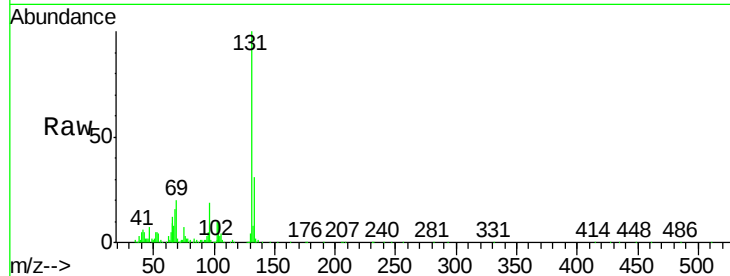




#28
Naphthalene
Concen: 3.49 ng/ul
RT: 11.08 min Scan# 1403
Delta R.T. 0.06 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

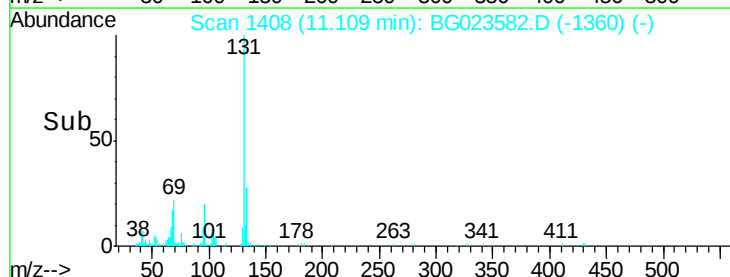
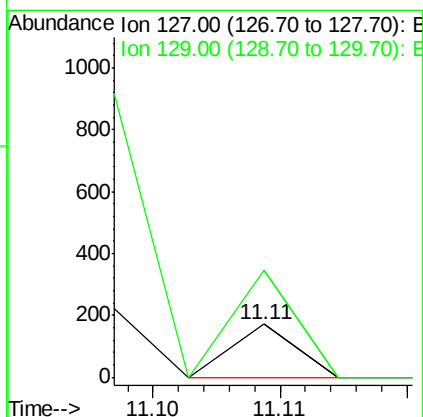
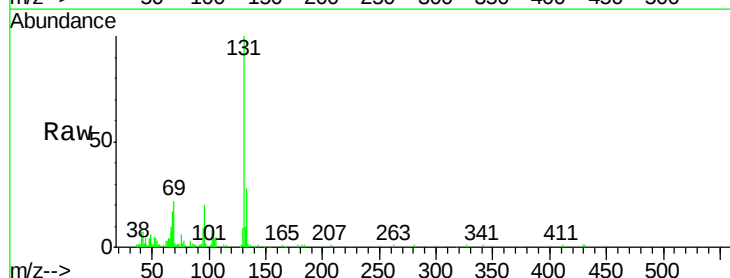
Instrument :
BNA_G
ClientSampleId :
PR001-SS006-0612-01

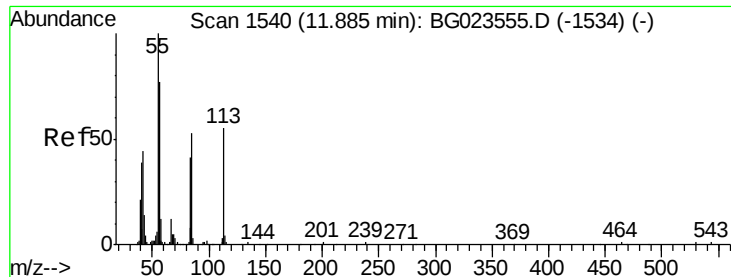
Tgt Ion:128 Resp: 297
Ion Ratio Lower Upper
128 100
129 77.8 9.4 14.2#
127 50.3 11.2 16.8#



#30
4-Chloroaniline
Concen: 1.80 ng/ul
RT: 11.11 min Scan# 1408
Delta R.T. -0.02 min
Lab File: BG023582.D
Acq: 10 Aug 2016 7:34

Tgt Ion:127 Resp: 60
Ion Ratio Lower Upper
127 100
129 202.9 26.9 40.3#





#32

Caprolactam

Concen: 34.67 ng/ul

RT: 11.92 min Scan# 1546

Delta R.T. 0.03 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

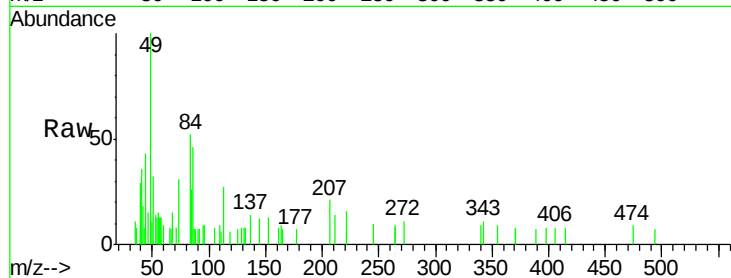
Tgt Ion:113 Resp: 416

Ion Ratio Lower Upper

113 100

55 56.8 99.6 149.4#

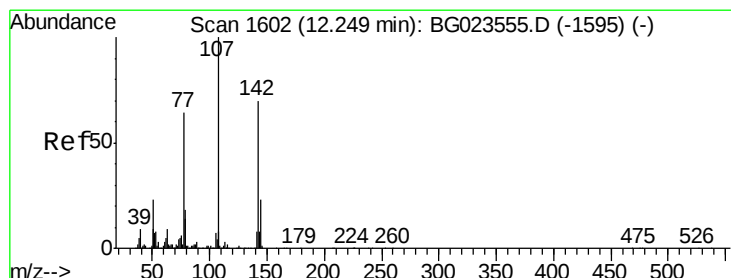
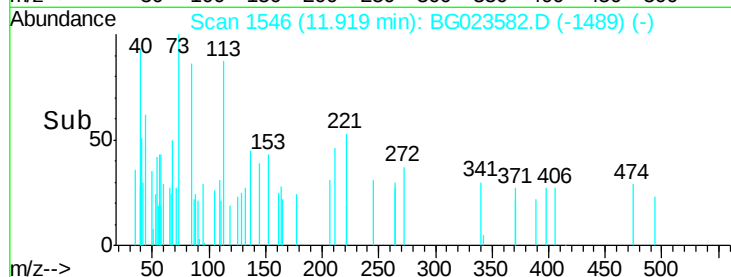
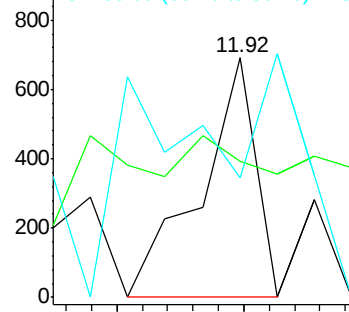
56 49.7 66.4 99.6#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#33

4-Chloro-3-methylphenol

Concen: 4.89 ng/ul

RT: 12.07 min Scan# 1571

Delta R.T. -0.18 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

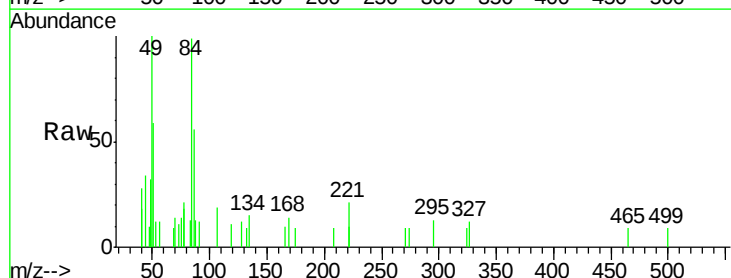
Tgt Ion:107 Resp: 182

Ion Ratio Lower Upper

107 100

144 0.0 22.7 34.1#

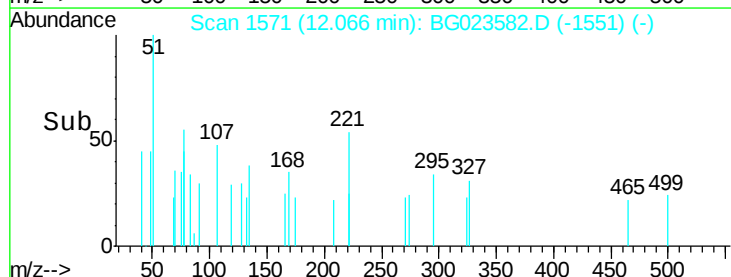
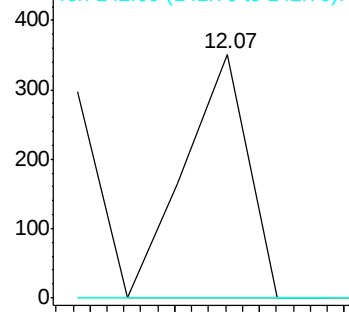
142 0.0 71.6 107.4#

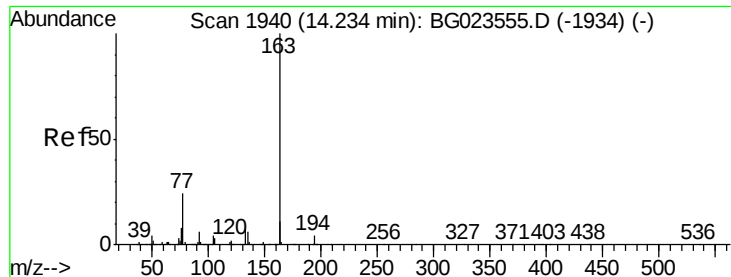


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#44

Dimethylphthalate

Concen: 17.79 ng/ul

RT: 14.22 min Scan# 1938

Delta R.T. -0.01 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

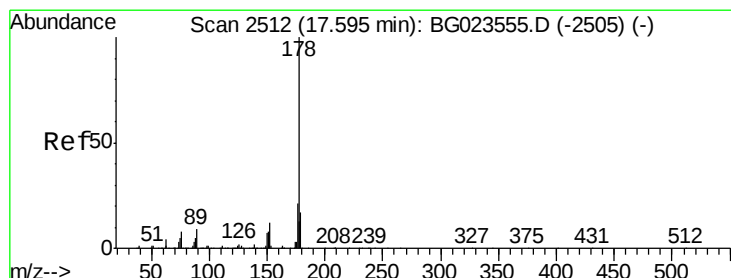
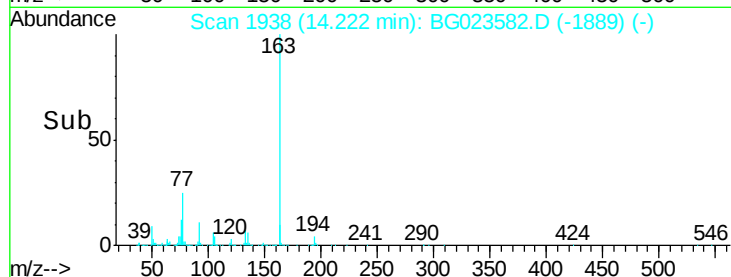
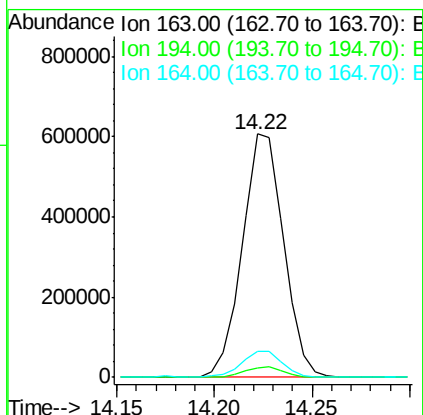
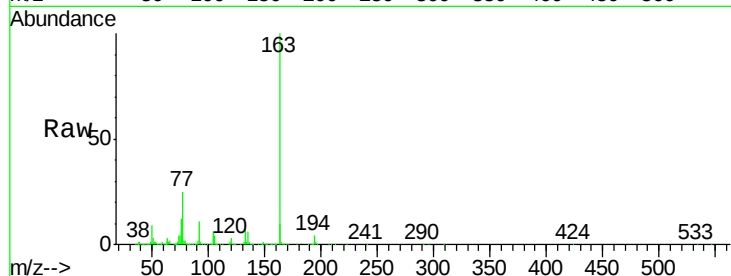
Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

Tgt Ion:	163	Resp:	888958
Ion Ratio		Lower	Upper
163	100		
194	3.9	3.4	5.2
164	10.5	8.8	13.2



#69

Phenanthrene

Concen: 1.48 ng/ul

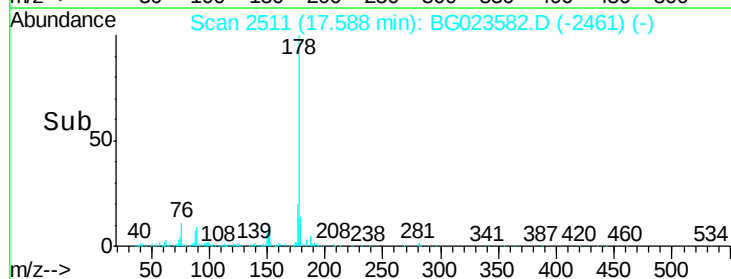
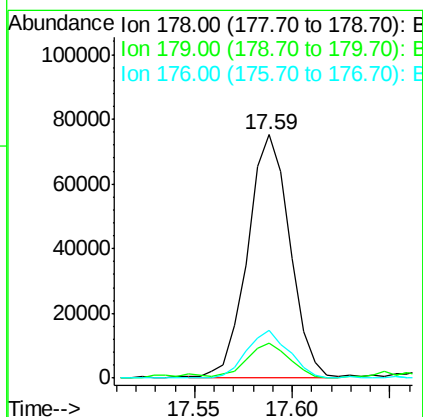
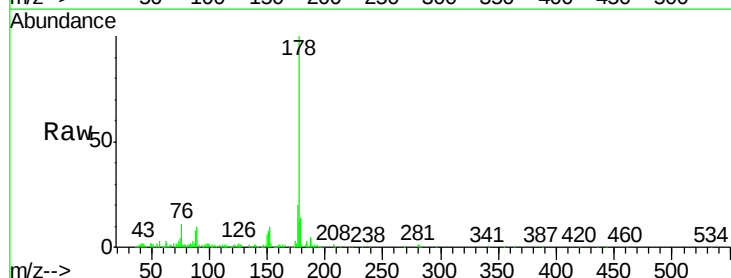
RT: 17.59 min Scan# 2511

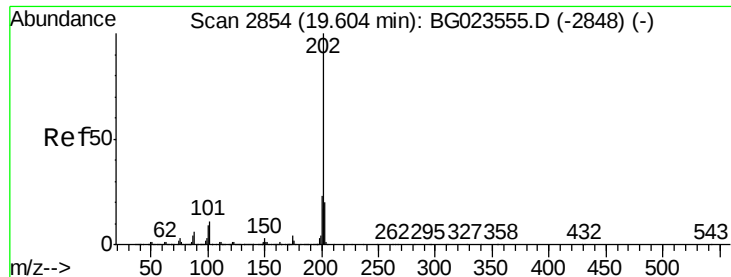
Delta R.T. -0.01 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Tgt Ion:	178	Resp:	112097
Ion Ratio		Lower	Upper
178	100		
179	14.3	12.9	19.3
176	19.7	15.8	23.8





#74

Fluoranthene

Concen: 3.16 ng/ul

RT: 19.60 min Scan# 2854

Delta R.T. -0.00 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

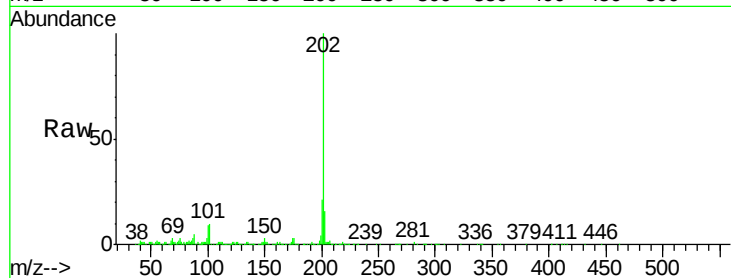
Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

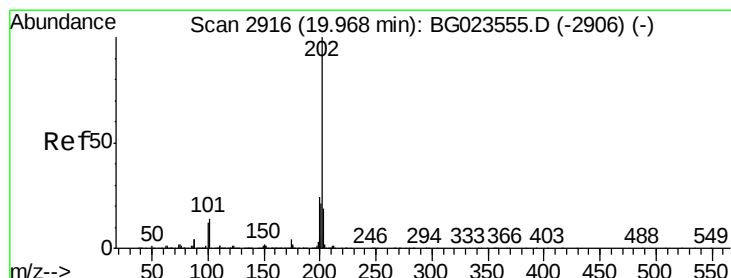
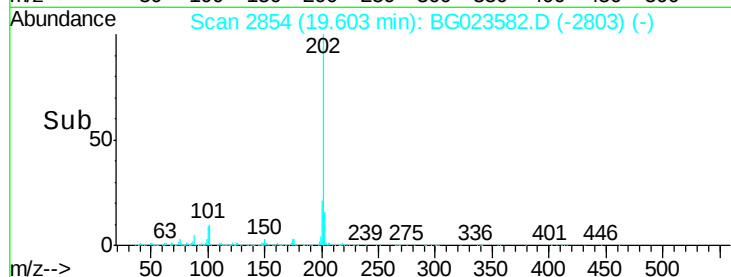
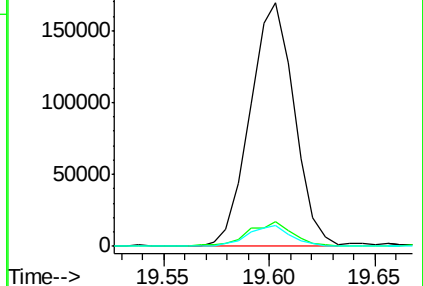
Tgt Ion:	202	Resp:	245185
Ion Ratio	Lower	Upper	
202	100		
101	10.2	10.6	16.0#
100	8.5	8.7	13.1#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 2.63 ng/ul

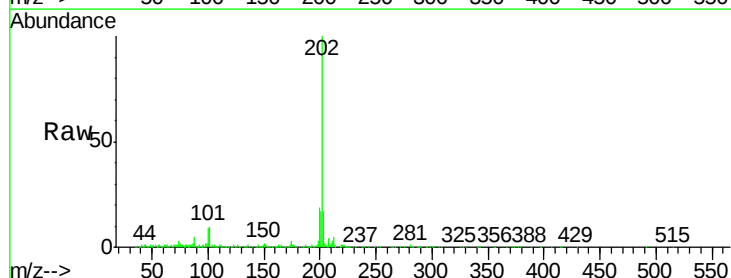
RT: 19.97 min Scan# 2916

Delta R.T. -0.00 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

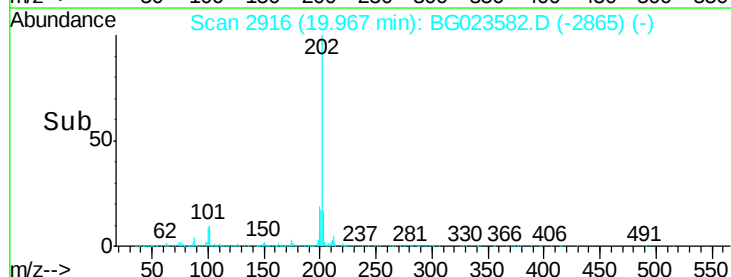
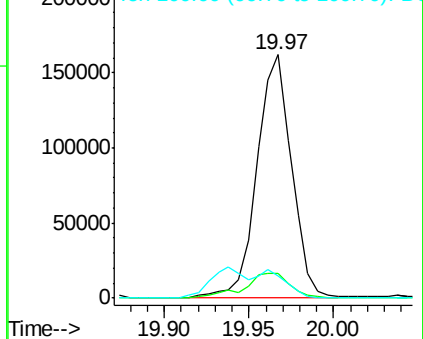
Tgt Ion:	202	Resp:	229734
Ion Ratio	Lower	Upper	
202	100		
101	10.3	12.5	18.7#
100	9.2	10.2	15.4#

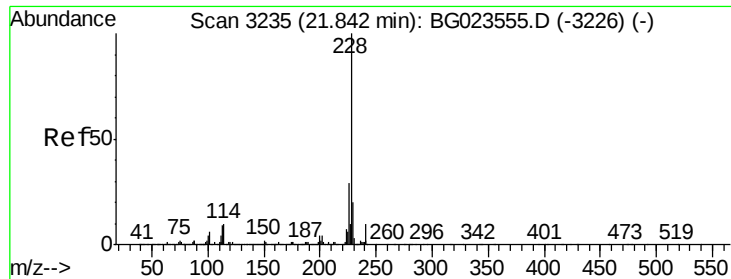


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 1.13 ng/ul

RT: 21.85 min Scan# 3236

Delta R.T. 0.01 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

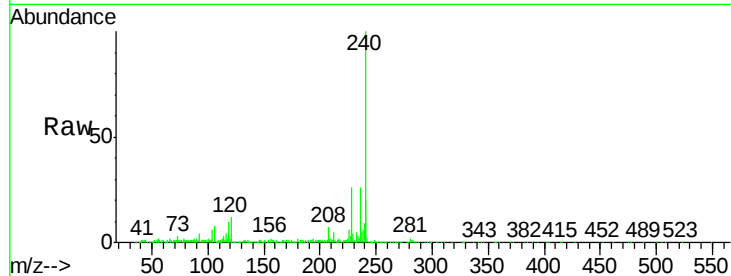
Tgt Ion:228 Resp: 90106

Ion Ratio Lower Upper

228 100

229 16.0 15.4 23.2

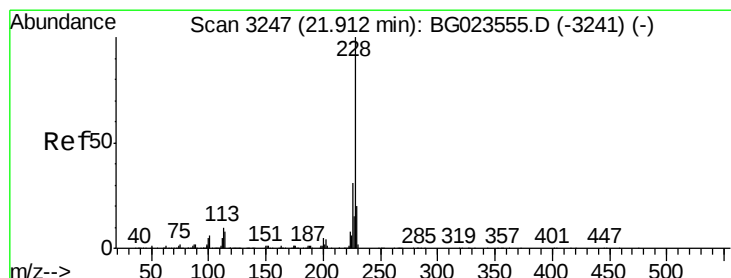
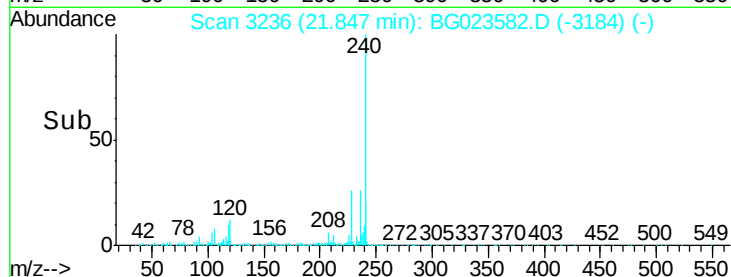
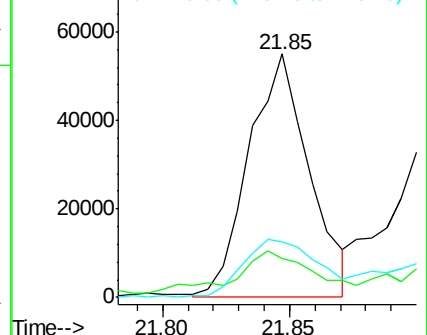
226 23.0 22.8 34.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#82

Chrysene

Concen: 1.51 ng/ul

RT: 21.91 min Scan# 3247

Delta R.T. -0.00 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

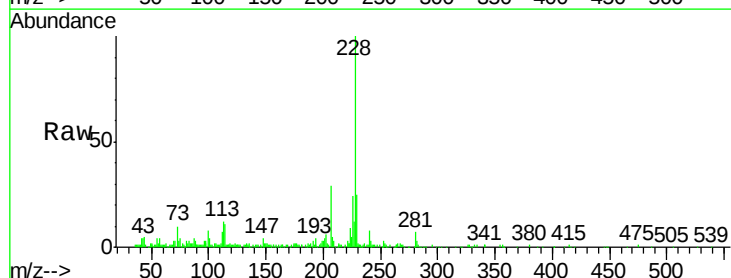
Tgt Ion:228 Resp: 109481

Ion Ratio Lower Upper

228 100

226 24.4 24.2 36.4

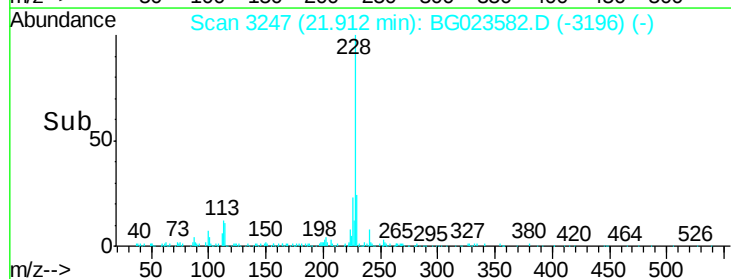
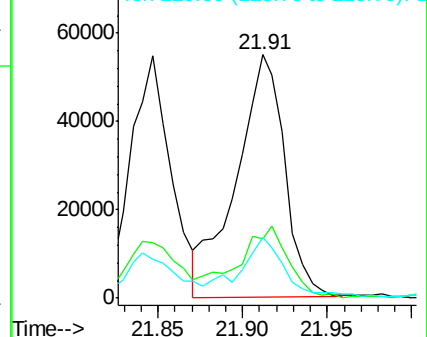
229 24.7 15.0 22.6#

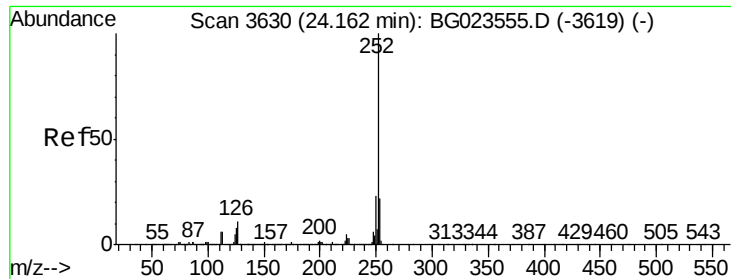


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 1.56 ng/ul

RT: 24.18 min Scan# 3633

Delta R.T. 0.02 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

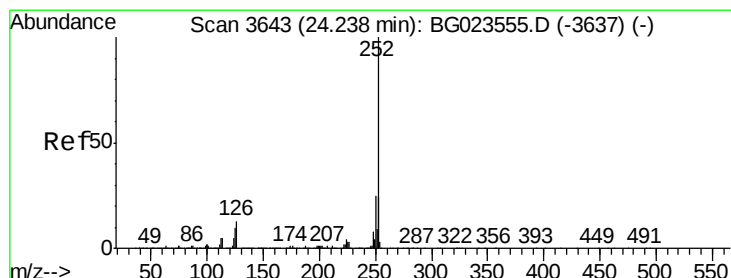
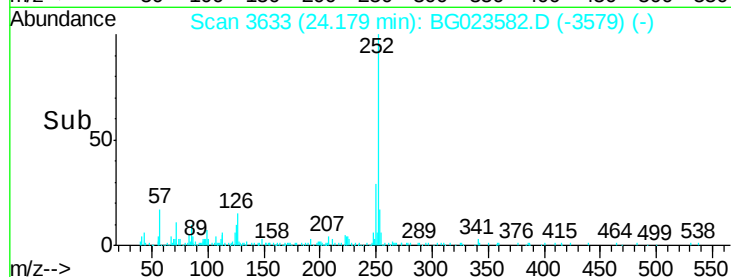
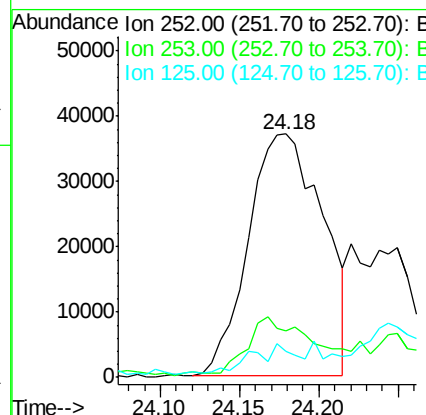
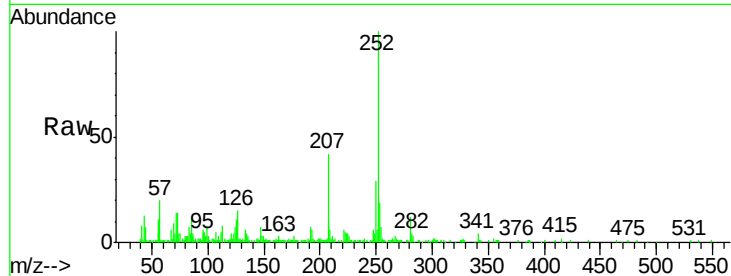
Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01

Tgt Ion:	252	Resp:	121952
Ion Ratio	Lower	Upper	
252	100		
253	19.0	18.2	27.2
125	10.8	10.8	16.2#



#86

Benzo(k)fluoranthene

Concen: 1.58 ng/ul

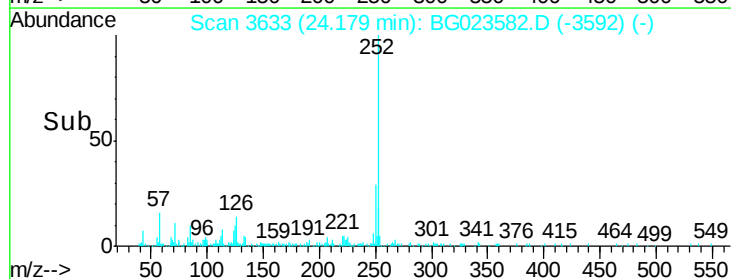
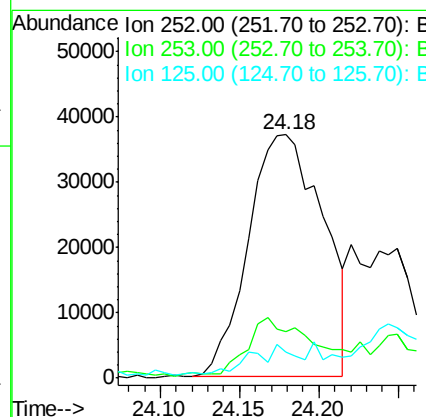
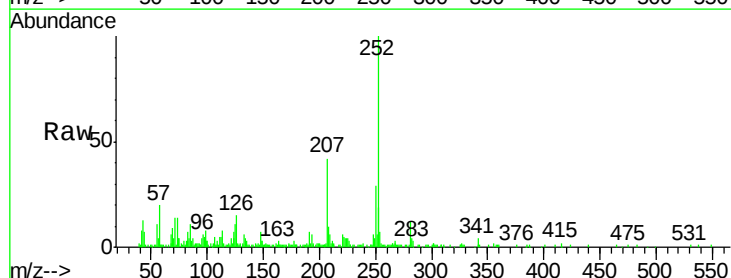
RT: 24.18 min Scan# 3633

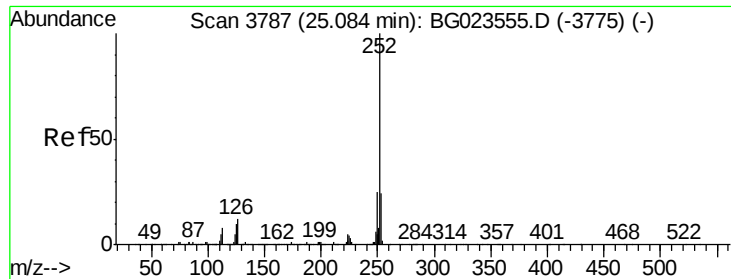
Delta R.T. -0.06 min

Lab File: BG023582.D

Acq: 10 Aug 2016 7:34

Tgt Ion:	252	Resp:	121952
Ion Ratio	Lower	Upper	
252	100		
253	19.0	15.8	23.6
125	10.8	10.6	16.0





#88

Benzo(a)pyrene

Concen: 1.13 ng/ul

RT: 25.09 min Scan# 3788

Delta R.T. 0.01 min

Lab File: BG023582.D

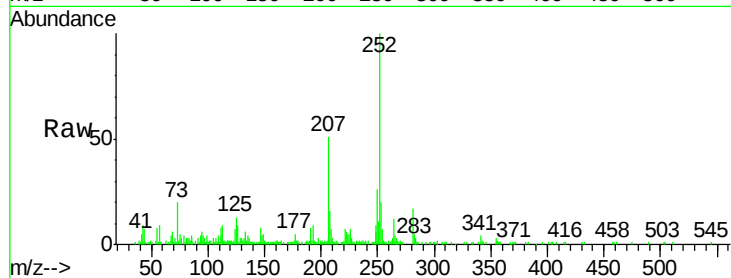
Acq: 10 Aug 2016 7:34

Instrument :

BNA_G

ClientSampleId :

PR001-SS006-0612-01



Tgt Ion:	252	Resp:	85754
Ion	Ratio	Lower	Upper
252	100		
253	20.3	19.0	28.4
125	12.9	12.0	18.0

