

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020719\
 Data File : BG039407.D
 Acq On : 8 Feb 2019 8:06
 Operator : JU/SJ
 Sample : K1394-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ISW

Quant Time: Feb 08 09:18:23 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 29 15:41:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	48223	20.00	ng	0.00
21) Naphthalene-d8	11.00	136	212856	20.00	ng	0.00
39) Acenaphthene-d10	14.80	164	142506	20.00	ng	-0.01
64) Phenanthrene-d10	17.54	188	337335	20.00	ng	0.00
76) Chrysene-d12	21.83	240	366616	20.00	ng	-0.01
87) Perylene-d12	25.22	264	359959	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	421534	149.61	ng	0.00
7) Phenol-d6	7.31	99	548144	132.17	ng	0.00
23) Nitrobenzene-d5	9.36	82	396090	116.25	ng	0.00
42) 2,4,6-Tribromophenol	16.28	330	196406	127.99	ng	0.00
45) 2-Fluorobiphenyl	13.43	172	942523	94.88	ng	0.00
79) Terphenyl-d14	20.14	244	1507521	87.04	ng	-0.01

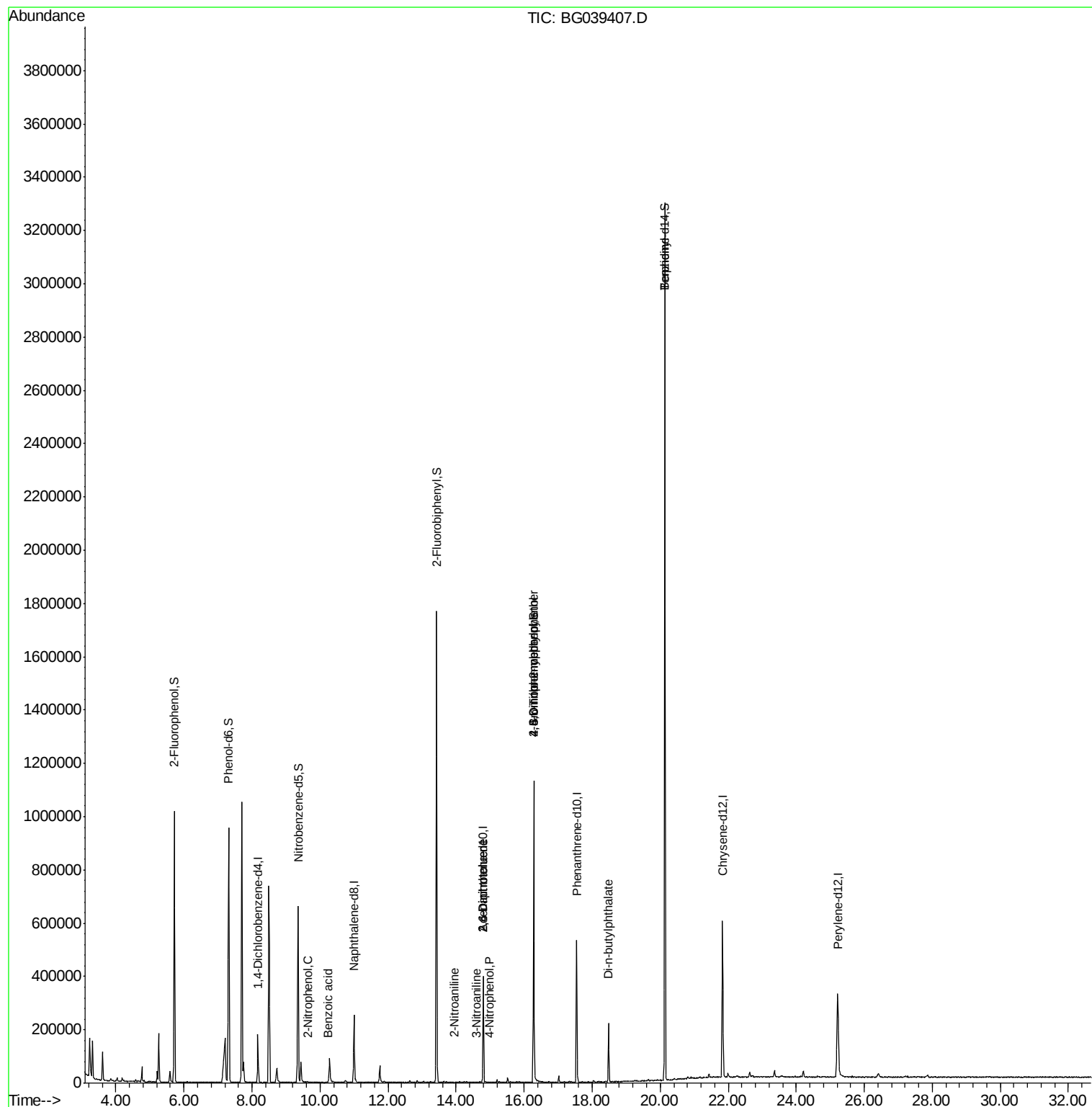
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	7.32	77	1335	Below Cal	#	4
26) 2-Nitrophenol	9.64	139	60	4.05 ng	#	3
32) Benzoic acid	10.23	122	68	9.05 ng	#	1
48) 2-Nitroaniline	13.97	65	110	8.33 ng	#	10
51) 2,6-Dinitrotoluene	14.80	165	17822	13.71 ng	#	25
53) 3-Nitroaniline	14.60	138	67	5.82 ng	#	1
56) 4-Nitrophenol	14.98	139	59	5.82 ng	#	1
57) 2,4-Dinitrotoluene	14.80	165	17822	13.24 ng	#	20
65) 4,6-Dinitro-2-methylphenol	16.28	198	803	4.94 ng	#	1
67) 4-Bromophenyl-phenylether	16.28	248	13992	3.74 ng	#	1
74) Di-n-butylphthalate	18.48	149	159237	7.95 ng		98
77) Benzidine	20.14	184	27934	2.32 ng	#	91

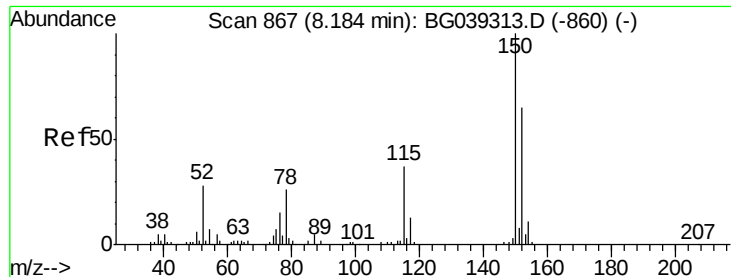
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.18 min Scan# 866

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampleId :

ISW

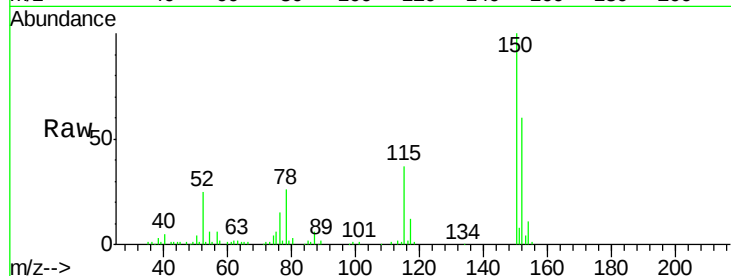
Tot Ion:152 Resp: 48223

Ion Ratio Lower Upper

152 100

150 165.3 123.7 185.5

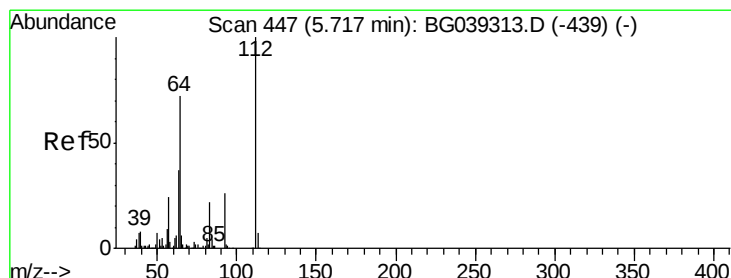
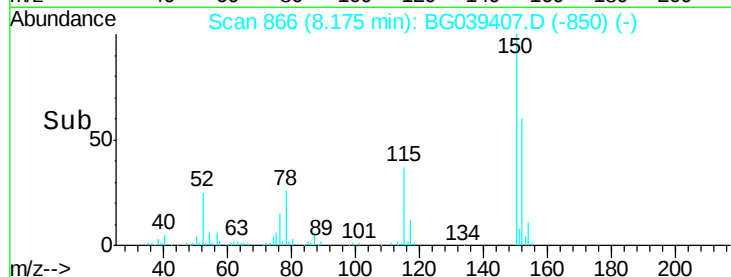
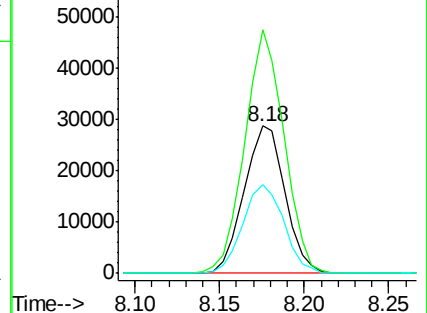
115 60.5 45.9 68.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 149.61 ng

RT: 5.71 min Scan# 447

Delta R.T. -0.00 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

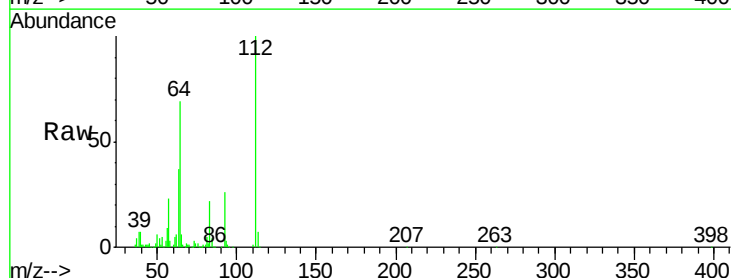
Tgt Ion:112 Resp: 421534

Ion Ratio Lower Upper

112 100

64 68.7 57.8 86.8

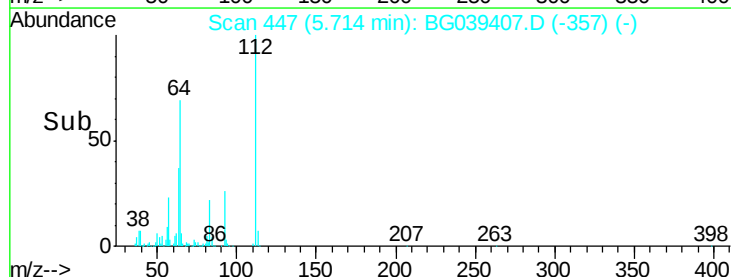
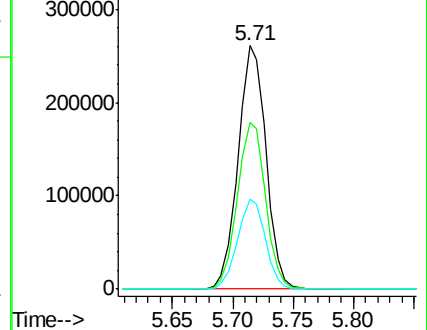
63 37.1 29.8 44.6

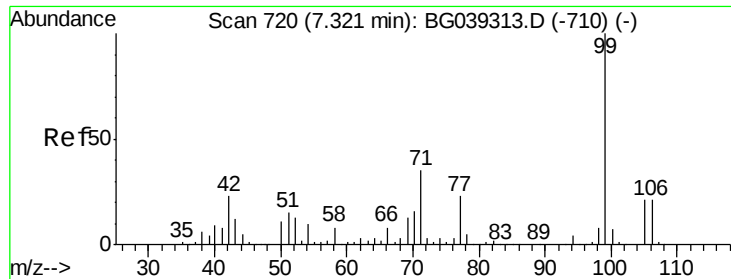


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 132.17 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampleId :

ISW

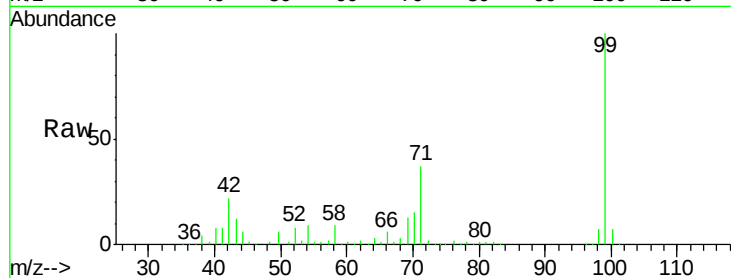
Tot Ion: 99 Resp: 548144

Ion Ratio Lower Upper

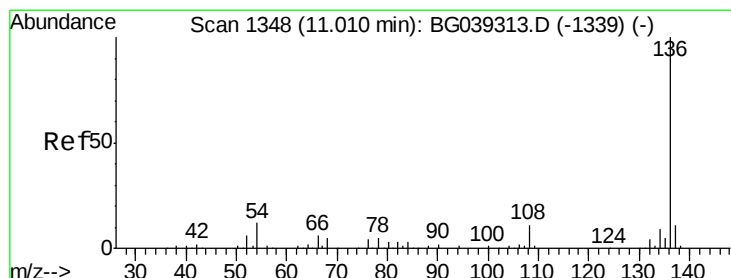
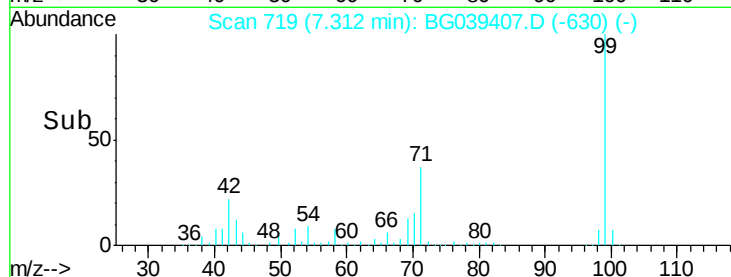
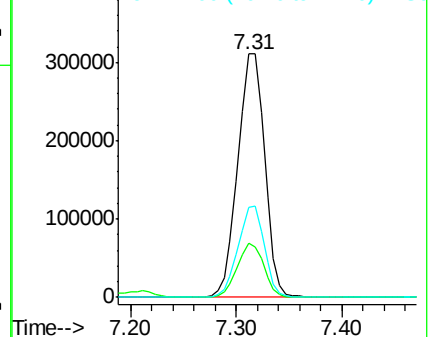
99 100

42 22.1 18.2 27.2

71 36.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.00 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Tgt Ion: 136 Resp: 212856

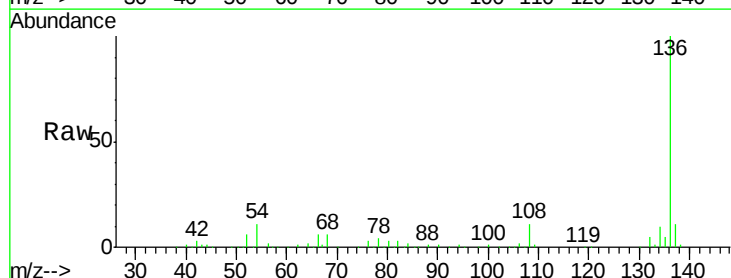
Ion Ratio Lower Upper

136 100

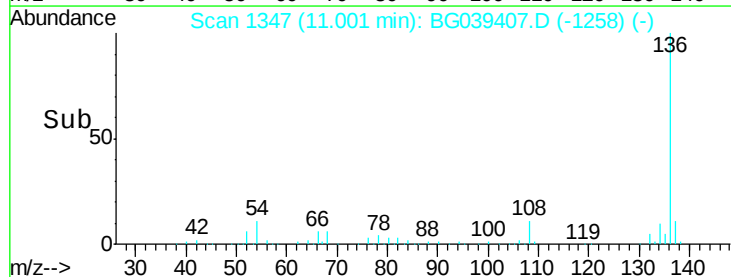
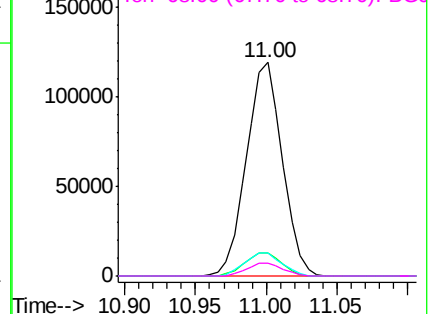
137 11.0 9.1 13.7

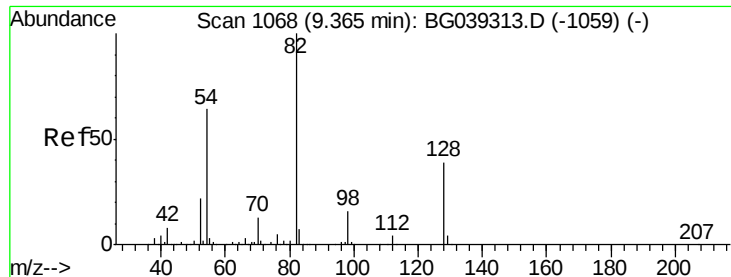
54 10.6 9.4 14.2

68 6.1 4.2 6.4



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

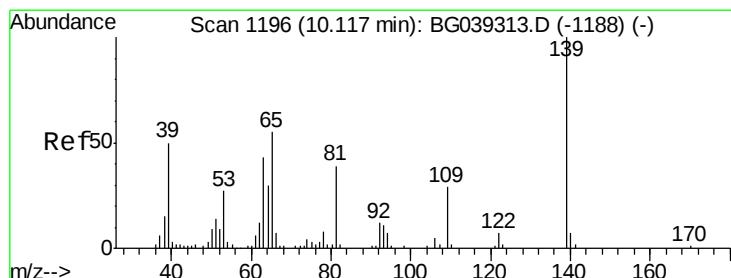
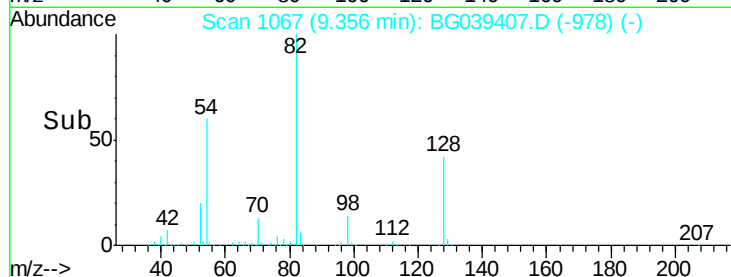
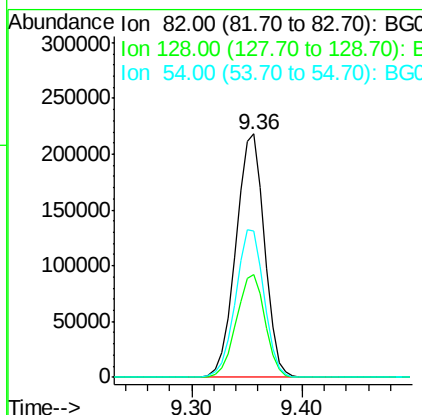
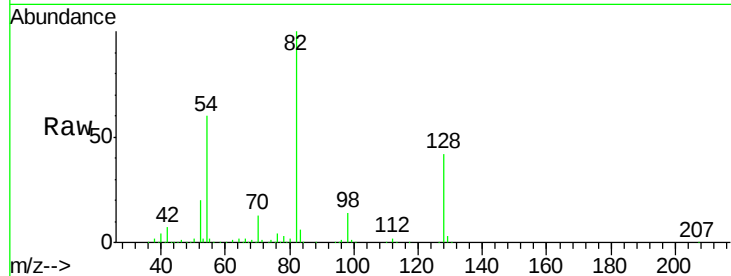




#23
Nitrobenzene-d5
Concen: 116.25 ng
RT: 9.36 min Scan# 1067
Delta R.T. -0.01 min
Lab File: BG039407.D
Acq: 8 Feb 2019 8:06

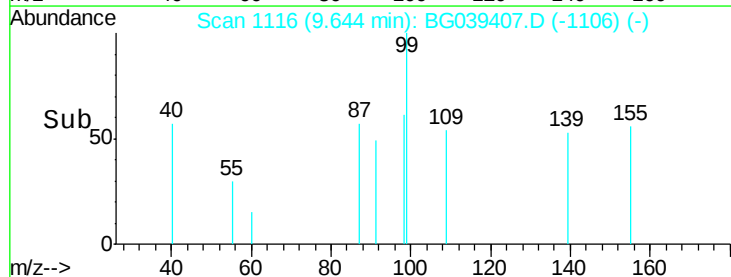
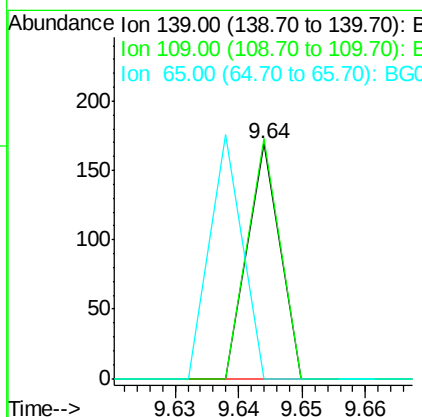
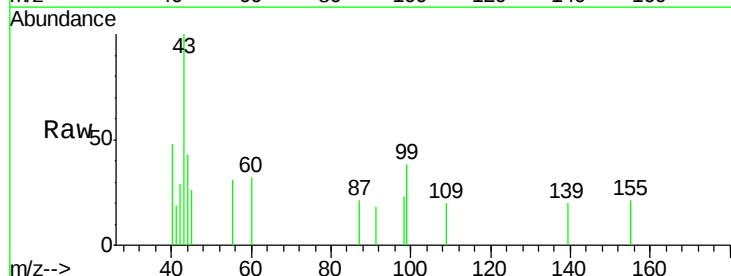
Instrument :
BNA_G
ClientSampled :
ISW

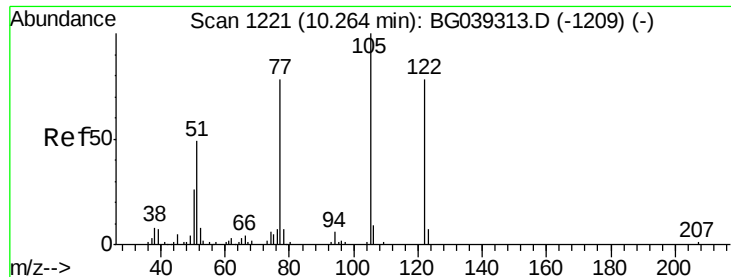
Tot Ion	82	Resp	396090
Ion Ratio	100	Lower	Upper
128	42.0	31.3	46.9
54	60.0	50.9	76.3



#26
2-Nitrophenol
Concen: 4.05 ng
RT: 9.64 min Scan# 1116
Delta R.T. -0.47 min
Lab File: BG039407.D
Acq: 8 Feb 2019 8:06

Tgt Ion	139	Resp	60
Ion Ratio	100	Lower	Upper
109	102.4	23.4	35.0#
65	0.0	44.3	66.5#





#32

Benzoic acid

Concen: 9.05 ng

RT: 10.23 min Scan# 1216

Delta R.T. -0.03 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampled :

ISW

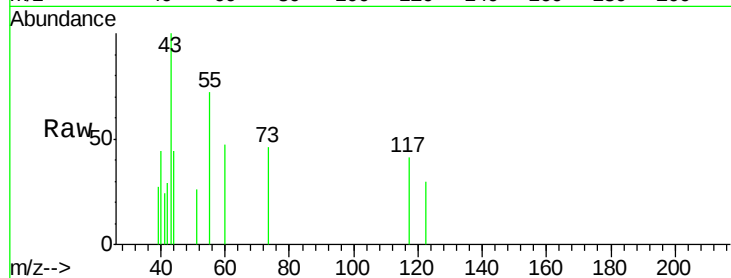
Tot Ion:122 Resp: 68

Ion Ratio Lower Upper

122 100

105 0.0 101.8 141.8#

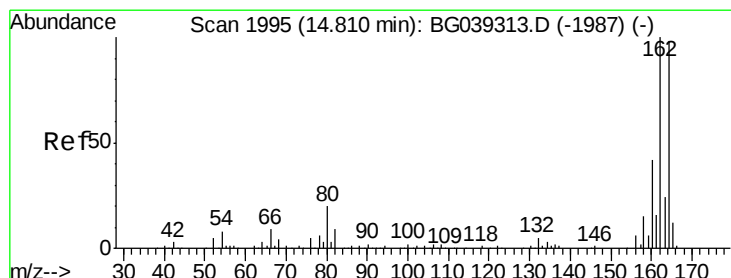
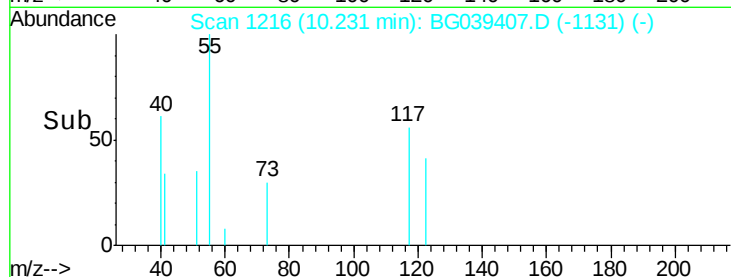
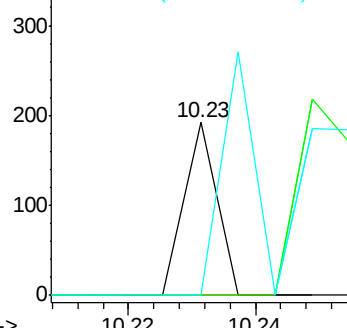
77 0.0 76.3 116.3#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.80 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

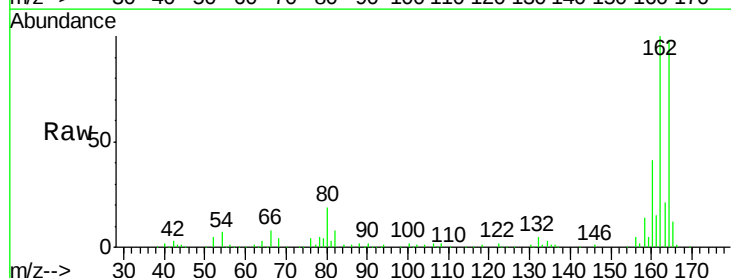
Tgt Ion:164 Resp: 142506

Ion Ratio Lower Upper

164 100

162 101.9 81.6 122.4

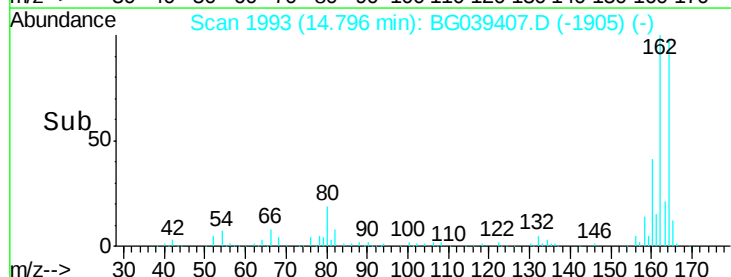
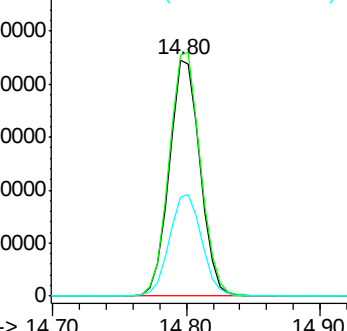
160 41.9 34.2 51.2

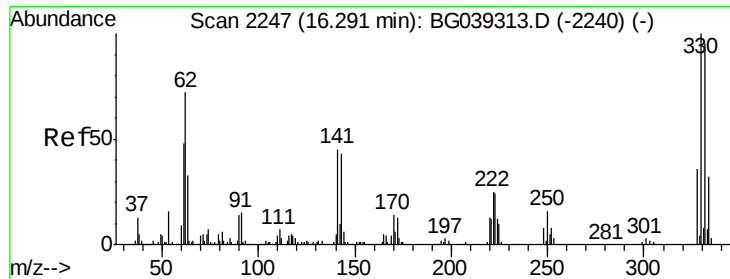


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

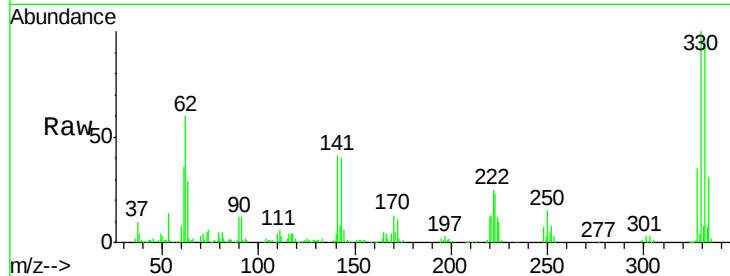




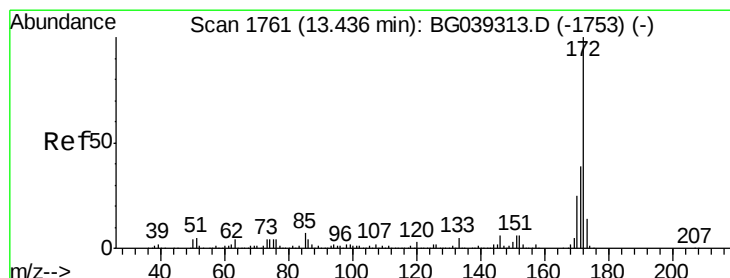
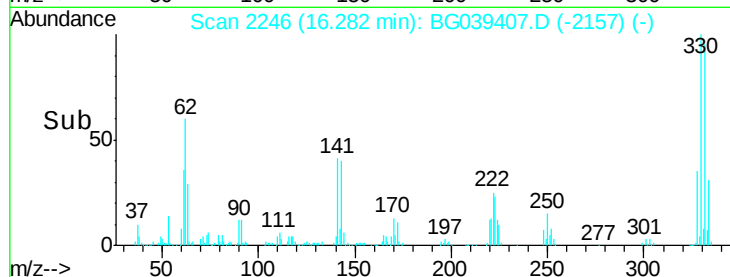
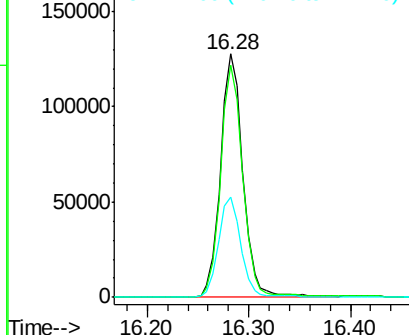
#42
 2,4,6-Tribromophenol
 Concen: 127.99 ng
 RT: 16.28 min Scan# 2246
 Delta R.T. -0.01 min
 Lab File: BG039407.D
 Acq: 8 Feb 2019 8:06

Instrument :
 BNA_G
 ClientSampleId :
 ISW

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.8	75.7	113.5
141	41.8	35.6	53.4

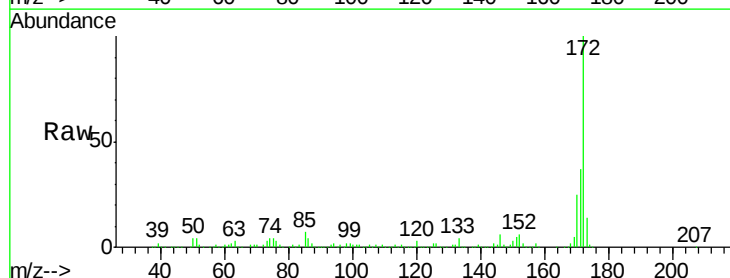


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

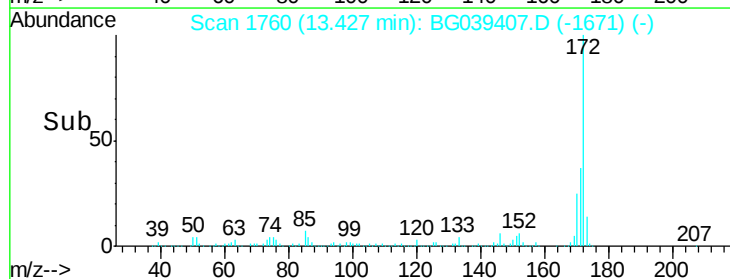
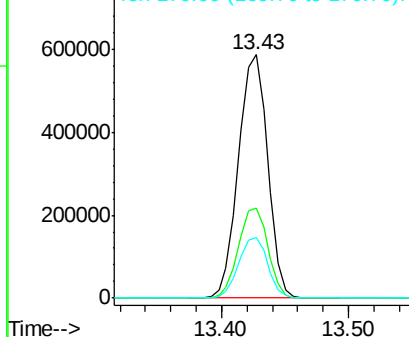


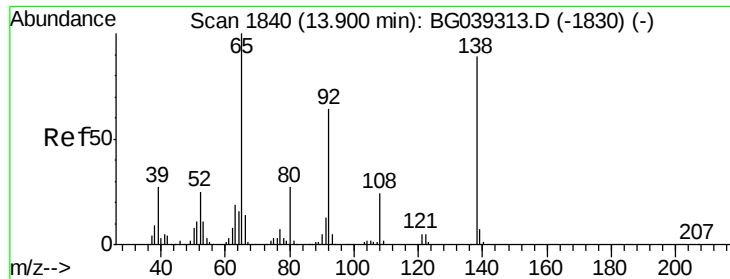
#45
 2-Fluorobiphenyl
 Concen: 94.88 ng
 RT: 13.43 min Scan# 1760
 Delta R.T. -0.01 min
 Lab File: BG039407.D
 Acq: 8 Feb 2019 8:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	30.8	46.2
170	24.7	20.2	30.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

2-Nitroaniline

Concen: 8.33 ng

RT: 13.97 min Scan# 1852

Delta R.T. 0.07 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampleId :

ISW

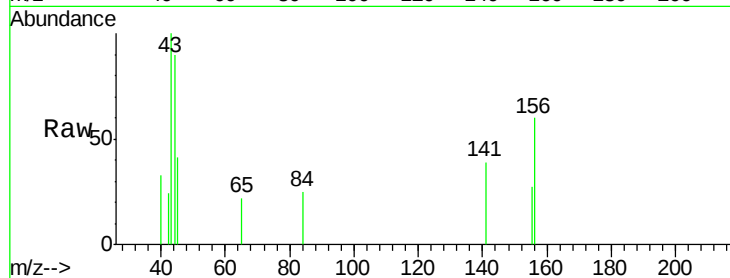
Tot Ion: 65 Resp: 110

Ion Ratio Lower Upper

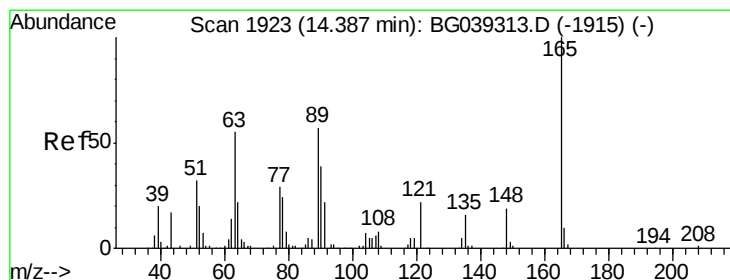
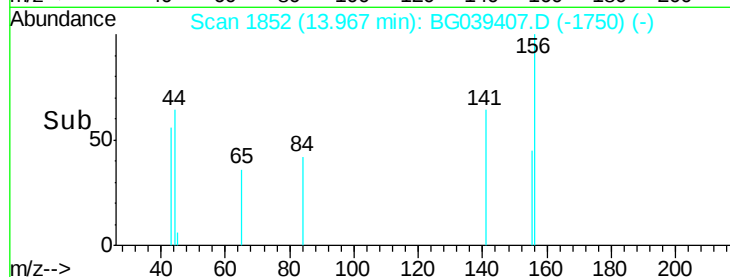
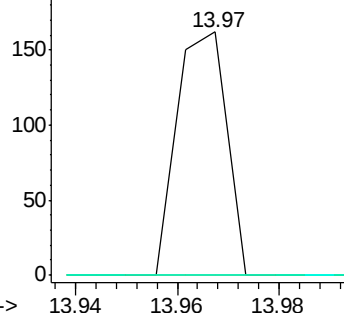
65 100

92 0.0 51.4 77.2#

138 0.0 71.4 107.2#



Abundance Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#51

2,6-Dinitrotoluene

Concen: 13.71 ng

RT: 14.80 min Scan# 1993

Delta R.T. 0.41 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

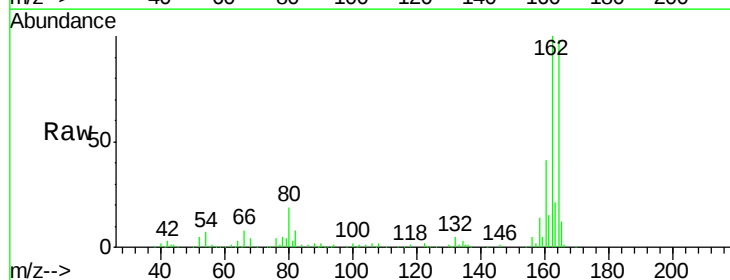
Tgt Ion: 165 Resp: 17822

Ion Ratio Lower Upper

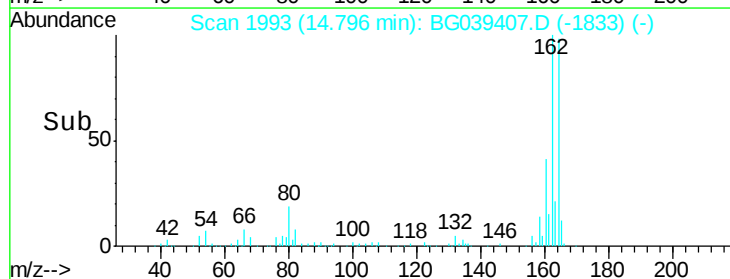
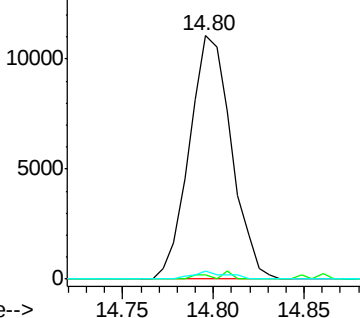
165 100

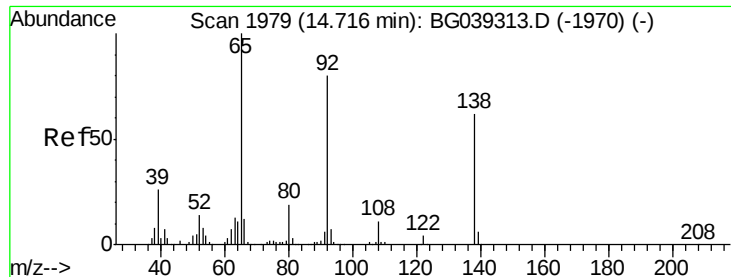
63 1.9 47.0 70.6#

89 3.1 45.8 68.8#



Abundance Ion 165.00 (164.70 to 165.70): BGC
Ion 63.00 (62.70 to 63.70): BGC
Ion 89.00 (88.70 to 89.70): BGC





#53

3-Nitroaniline

Concen: 5.82 ng

RT: 14.60 min Scan# 1959

Delta R.T. -0.12 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampleId :

ISW

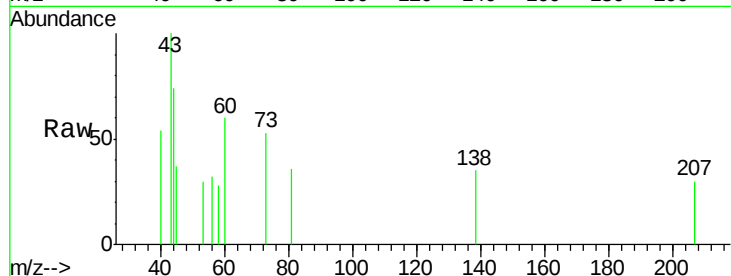
Tot Ion:138 Resp: 67

Ion Ratio Lower Upper

138 100

108 0.0 13.8 20.8#

92 0.0 103.7 155.5#

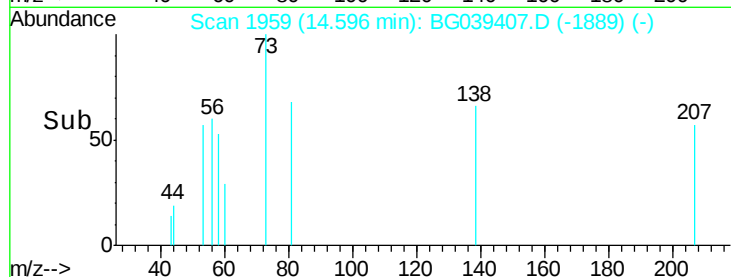


Abundance Ion 138.00 (137.70 to 138.70): E

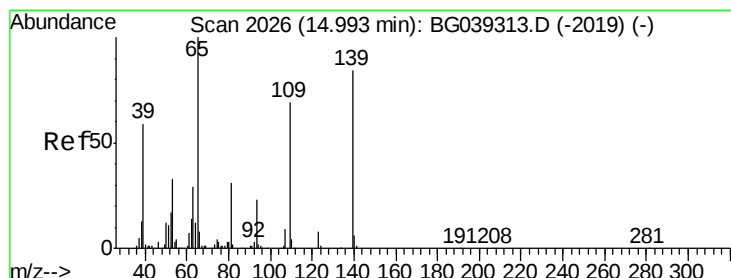
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC

Time-->



Time-->



#56

4-Nitrophenol

Concen: 5.82 ng

RT: 14.98 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

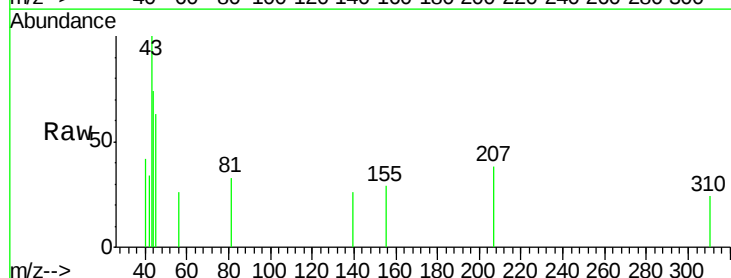
Tgt Ion:139 Resp: 59

Ion Ratio Lower Upper

139 100

109 0.0 61.9 101.9#

65 0.0 99.1 139.1#

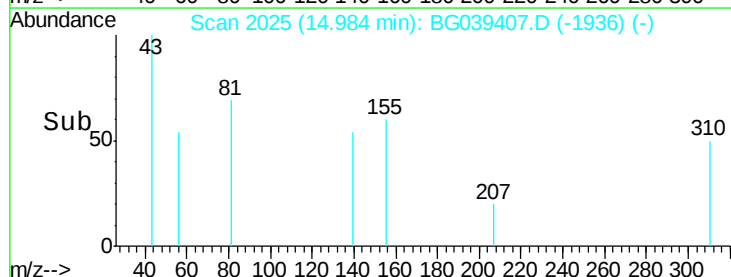


Abundance Ion 139.00 (138.70 to 139.70): E

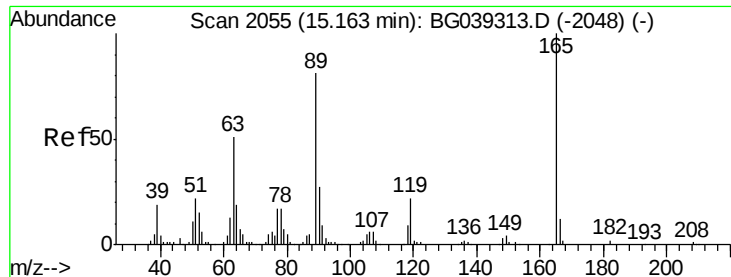
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC

Time-->



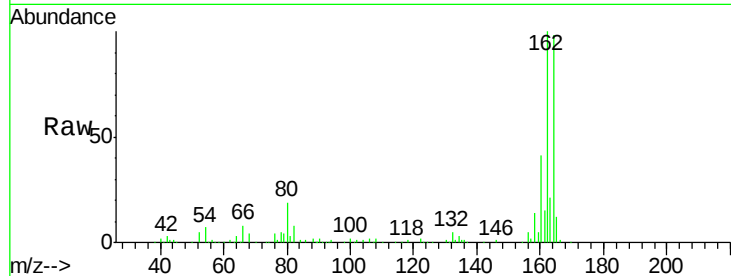
Time-->



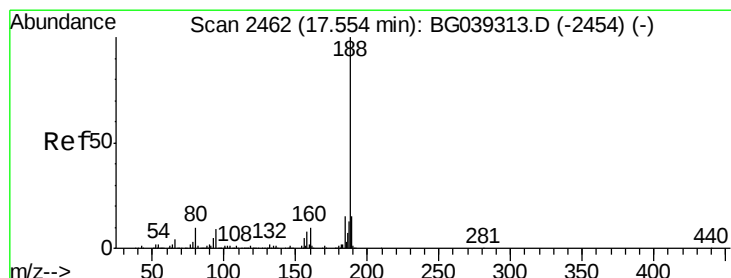
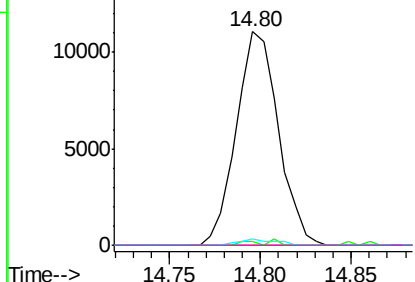
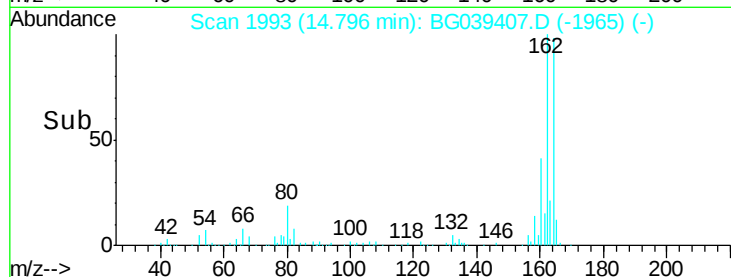
#57
2,4-Dinitrotoluene
Concen: 13.24 ng
RT: 14.80 min Scan# 1993
Delta R.T. -0.37 min
Lab File: BG039407.D
Acq: 8 Feb 2019 8:06

Instrument :
BNA_G
ClientSampleId :
ISW

Tot Ion:165 Resp: 17822
Ion Ratio Lower Upper
165 100
63 1.9 41.0 61.6#
89 3.1 64.6 96.8#
182 0.0 2.0 3.0#

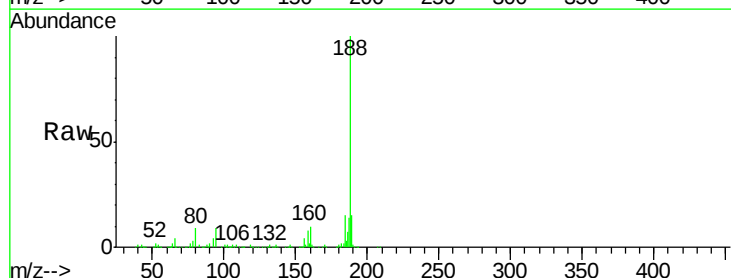


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BGC
Ion 89.00 (88.70 to 89.70): BGC
Ion 182.00 (181.70 to 182.70): E

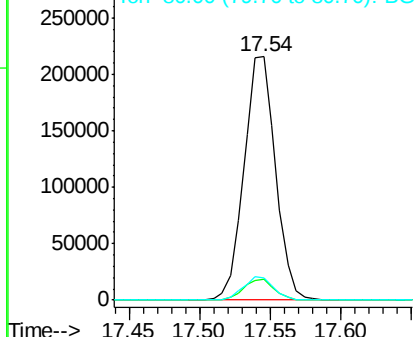
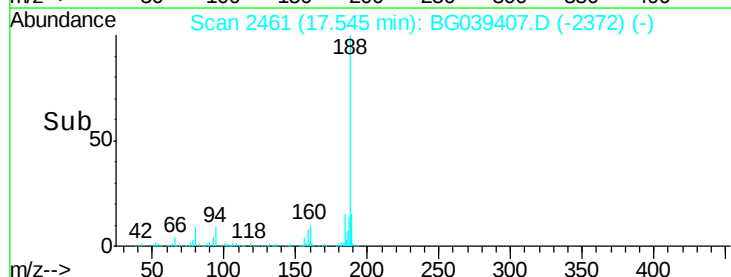


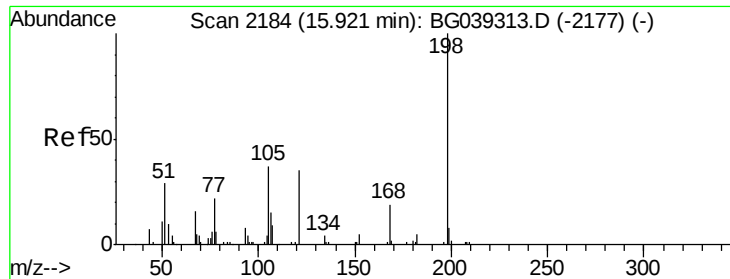
#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.54 min Scan# 2461
Delta R.T. -0.01 min
Lab File: BG039407.D
Acq: 8 Feb 2019 8:06

Tgt Ion:188 Resp: 337335
Ion Ratio Lower Upper
188 100
94 8.7 6.9 10.3
80 9.1 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC

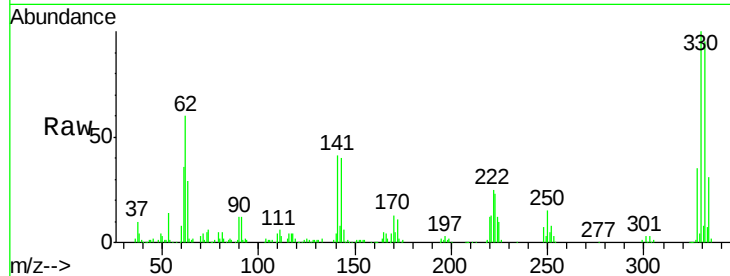




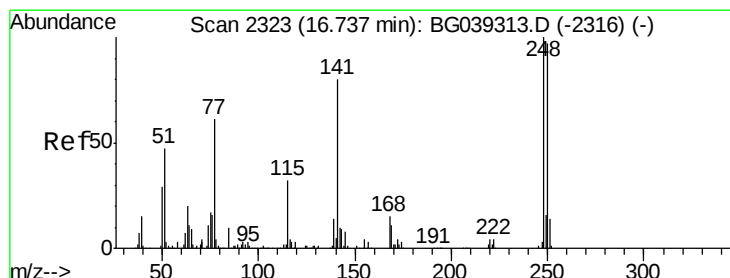
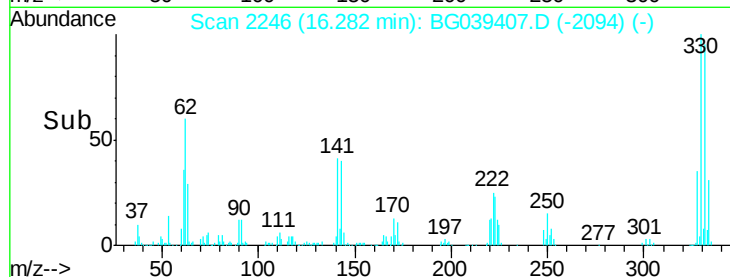
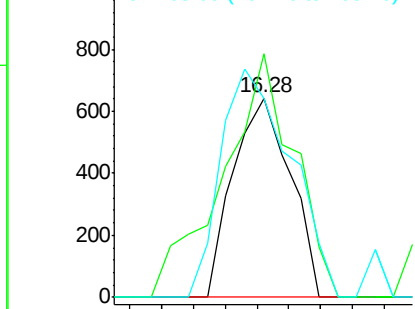
#65
 4,6-Dinitro-2-methylphenol
 Concen: 4.94 ng
 RT: 16.28 min Scan# 2246
 Delta R.T. 0.36 min
 Lab File: BG039407.D
 Acq: 8 Feb 2019 8:06

Instrument :
 BNA_G
 ClientSampleId :
 ISW

Tot Ion:198 Resp: 803
 Ion Ratio Lower Upper
 198 100
 51 122.4 27.4 67.4#
 105 99.7 19.7 59.7#

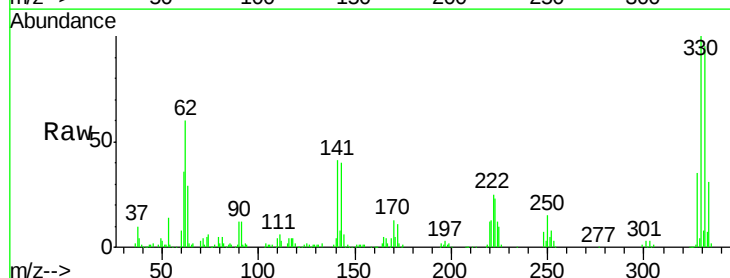


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BG0
 Ion 105.00 (104.70 to 105.70): E

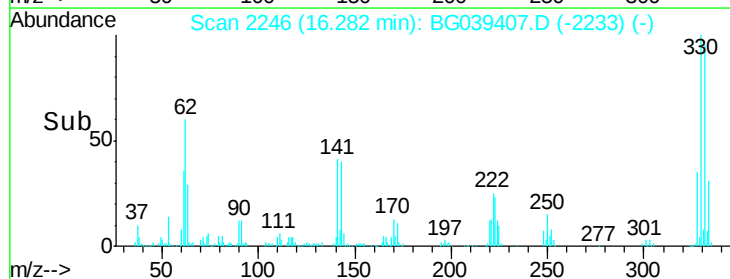
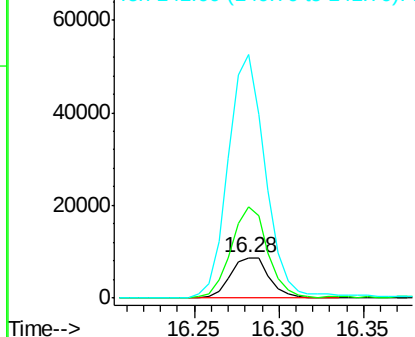


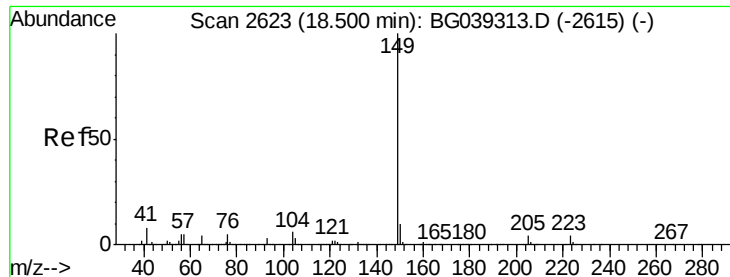
#67
 4-Bromophenyl-phenylether
 Concen: 3.74 ng
 RT: 16.28 min Scan# 2246
 Delta R.T. -0.46 min
 Lab File: BG039407.D
 Acq: 8 Feb 2019 8:06

Tgt Ion:248 Resp: 13992
 Ion Ratio Lower Upper
 248 100
 250 225.0 77.6 116.4#
 141 598.6 63.9 95.9#



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E





#74

Di-n-butylphthalate

Concen: 7.95 ng

RT: 18.48 min Scan# 2620

Delta R.T. -0.02 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampleId :

ISW

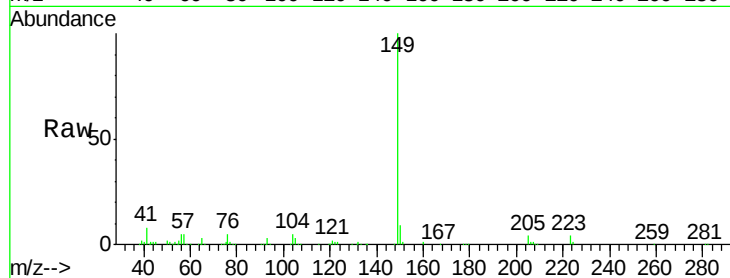
Tot Ion:149 Resp: 159237

Ion Ratio Lower Upper

149 100

150 8.8 7.7 11.5

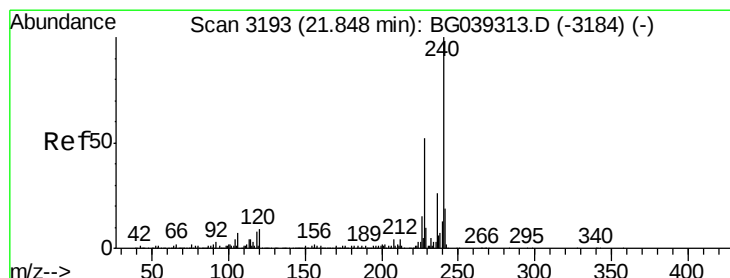
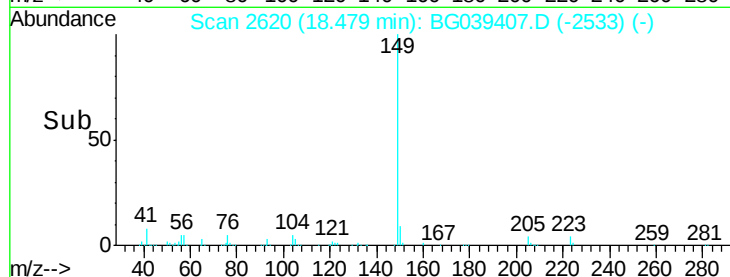
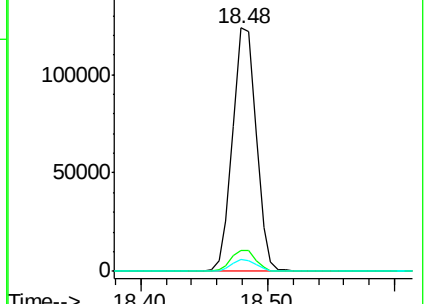
104 5.0 4.5 6.7



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



#76

Chrysene-d12

Concen: 20.00 ng

RT: 21.83 min Scan# 3191

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

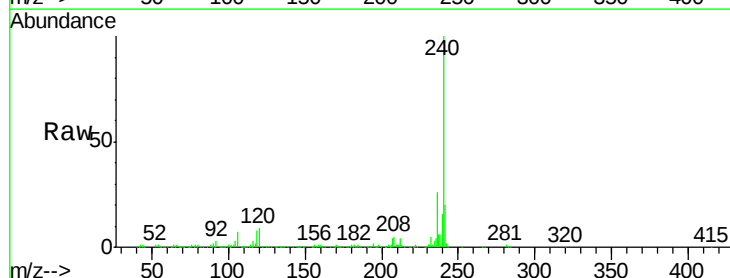
Tgt Ion:240 Resp: 366616

Ion Ratio Lower Upper

240 100

120 9.1 7.0 10.6

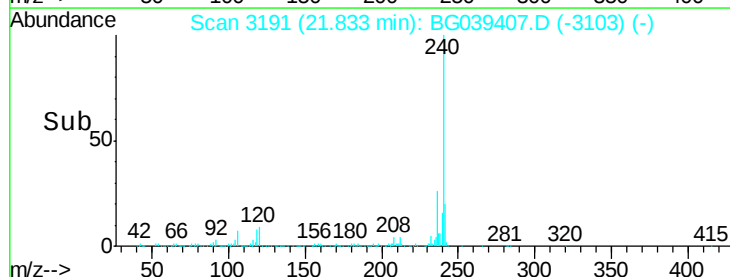
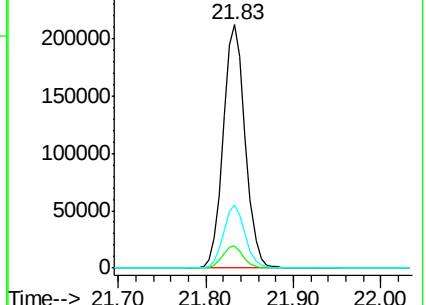
236 25.8 21.0 31.4

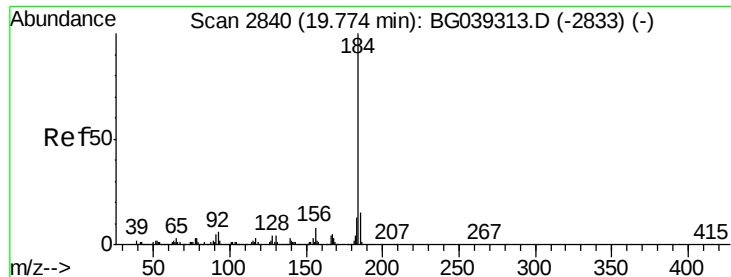


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.32 ng

RT: 20.14 min Scan# 2902

Delta R.T. 0.36 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

Instrument :

BNA_G

ClientSampled :

ISW

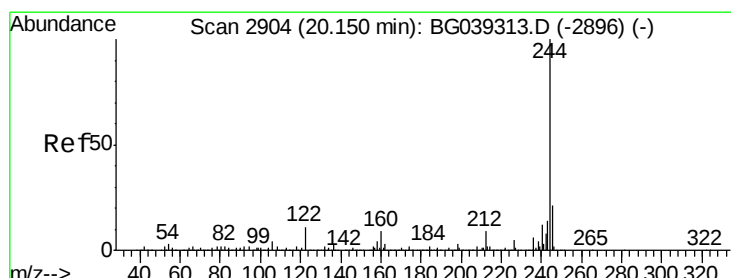
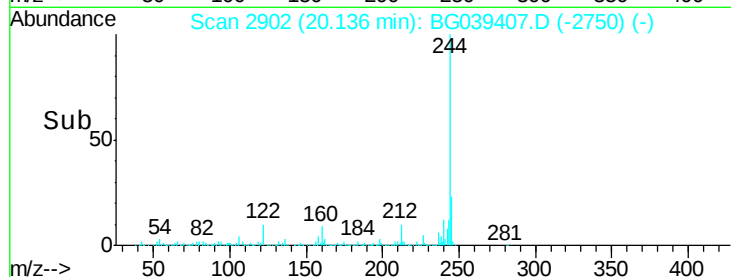
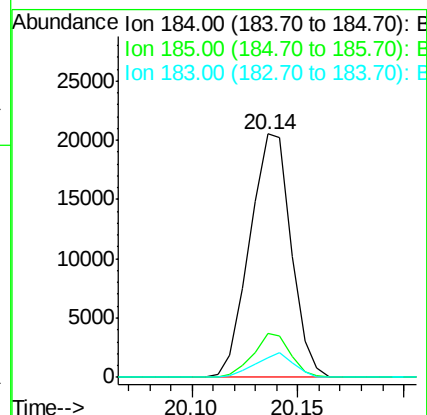
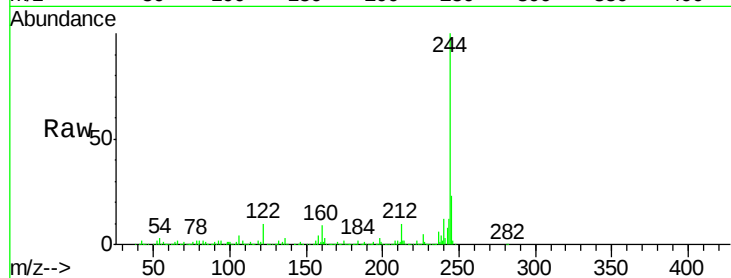
Tot Ion:184 Resp: 27934

Ion Ratio Lower Upper

184 100

185 17.9 12.2 18.2

183 8.1 10.6 15.8#



#79

Terphenyl-d14

Concen: 87.04 ng

RT: 20.14 min Scan# 2902

Delta R.T. -0.01 min

Lab File: BG039407.D

Acq: 8 Feb 2019 8:06

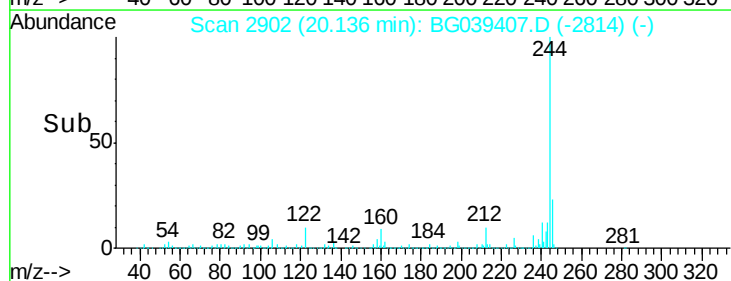
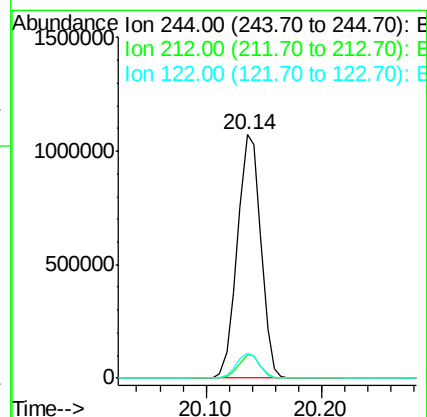
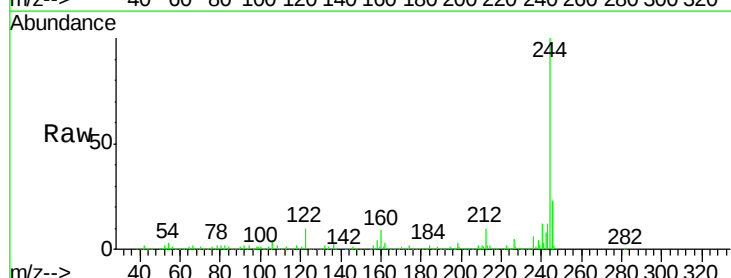
Tgt Ion:244 Resp: 1507521

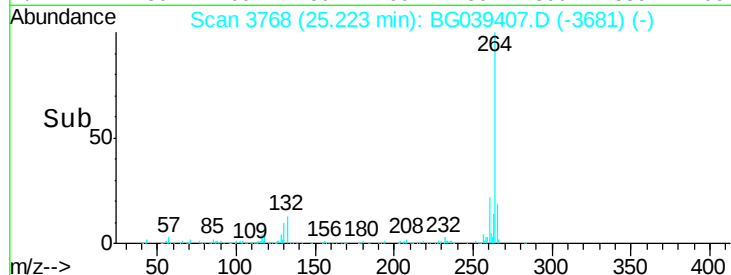
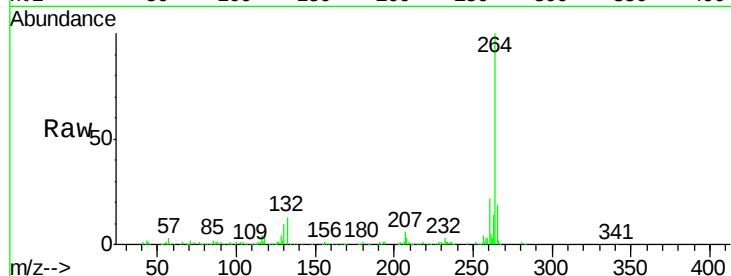
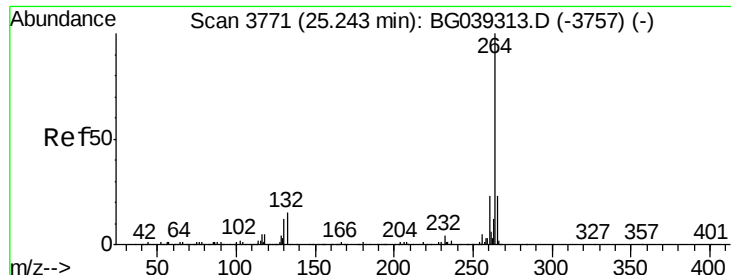
Ion Ratio Lower Upper

244 100

212 9.7 7.3 10.9

122 10.4 8.4 12.6





#87
 Pervlene-d12
 Concen: 20.00 ng
 RT: 25.22 min Scan# 3768
 Delta R.T. -0.02 min
 Lab File: BG039407.D
 Acq: 8 Feb 2019 8:06

Instrument :
 BNA_G
 ClientSampleId :
 ISW

Tot Ion:	264	Resp:	359959
Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.2	27.4
265	19.1	18.5	27.7

