

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090519\
 Data File : BG042739.D
 Acq On : 6 Sep 2019 4:19
 Operator : HP/JU
 Sample : K4694-21
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Sep 06 06:49:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

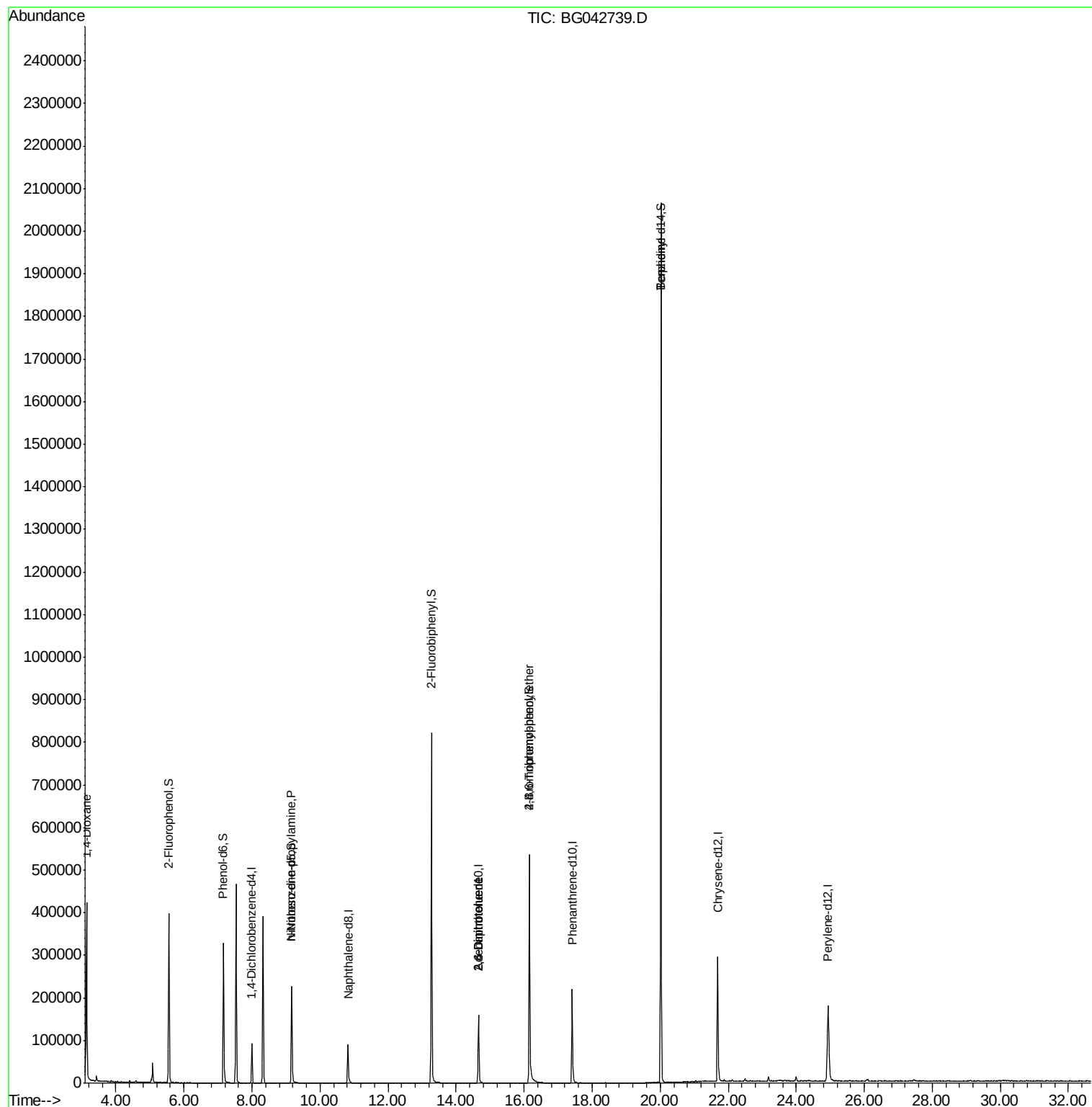
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	30508	20.00	ng	0.00
21) Naphthalene-d8	10.82	136	108744	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	76912	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	189713	20.00	ng	0.00
76) Chrysene-d12	21.69	240	229651	20.00	ng	0.00
87) Perylene-d12	24.93	264	267892	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	194553	129.16	ng	0.00
7) Phenol-d6	7.16	99	222612	109.41	ng	-0.01
23) Nitrobenzene-d5	9.16	82	157948	100.37	ng	-0.01
42) 2,4,6-Tribromophenol	16.15	330	175216	160.28	ng	-0.01
45) 2-Fluorobiphenyl	13.28	172	508584	111.84	ng	0.00
79) Terphenyl-d14	20.02	244	1123034	105.72	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.13	88	4577	7.281	ng	# 1
19) n-Nitroso-di-n-propylamine	9.16	70	20228	15.345	ng	# 76
51) 2,6-Dinitrotoluene	14.66	165	10149	7.890	ng	# 36
57) 2,4-Dinitrotoluene	14.66	165	10150	5.510	ng	# 38
67) 4-Bromophenyl-phenylether	16.15	248	10815	4.494	ng	# 1
77) Benzidine	20.02	184	13585	2.063	ng	# 91

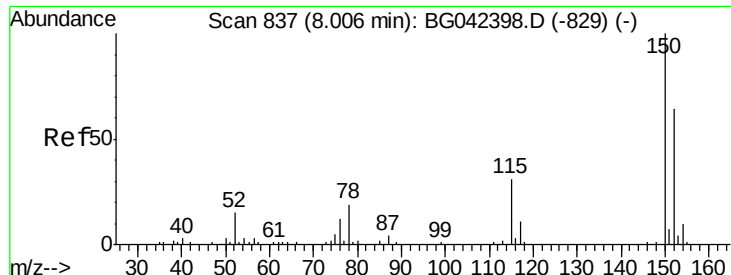
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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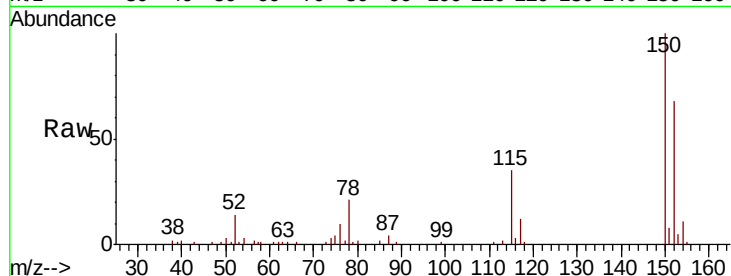


#1

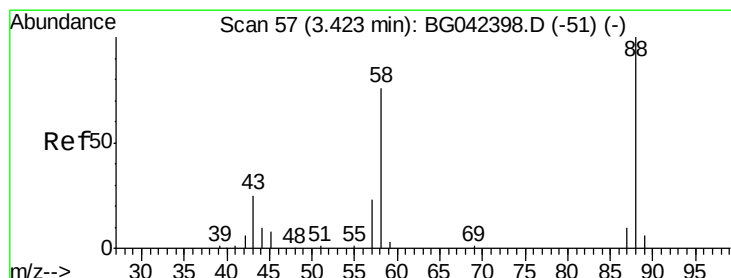
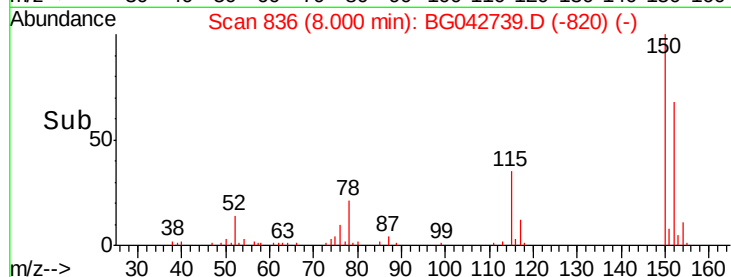
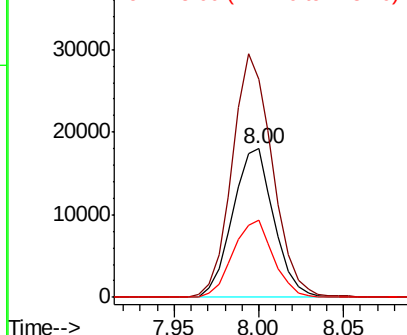
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BG042739.D
Acq: 6 Sep 2019 4:19

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 30508
Ion Ratio Lower Upper
152 100
150 146.5 125.4 188.0
115 51.9 38.5 57.7



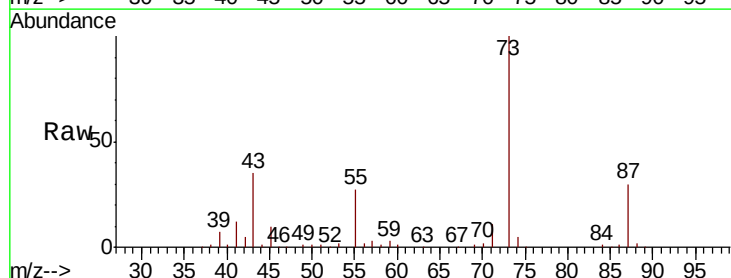
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



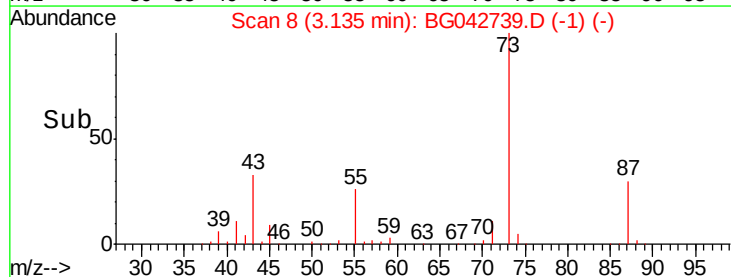
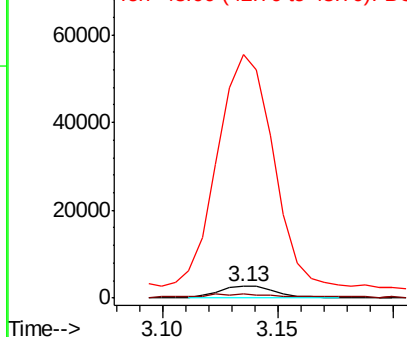
#2

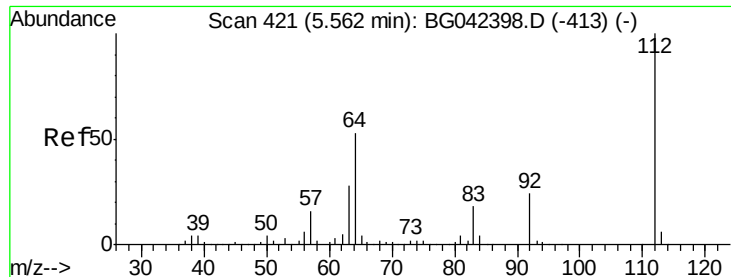
1,4-Dioxane
Concen: 7.281 ng
RT: 3.13 min Scan# 8
Delta R.T. -0.29 min
Lab File: BG042739.D
Acq: 6 Sep 2019 4:19

Tgt Ion: 88 Resp: 4577
Ion Ratio Lower Upper
88 100
58 26.3 58.3 87.5#
43 2098.3 20.2 30.2#



Abundance Ion 88.00 (87.70 to 88.70): BGC
Ion 58.00 (57.70 to 58.70): BGC
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 129.155 ng

RT: 5.56 min Scan# 420

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampled :

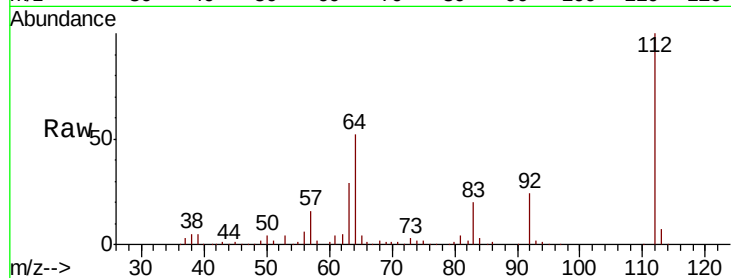
Tot Ion: 112 Resp: 194553

Ion Ratio Lower Upper

112 100

64 52.3 42.8 64.2

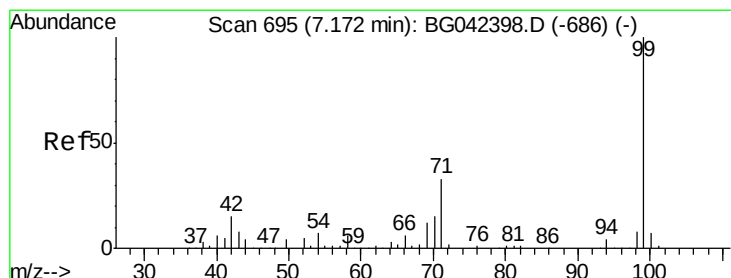
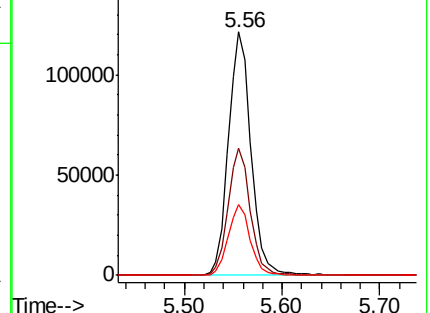
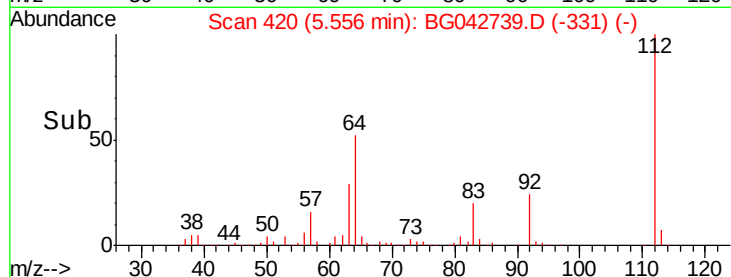
63 28.9 22.7 34.1



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: 109.406 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

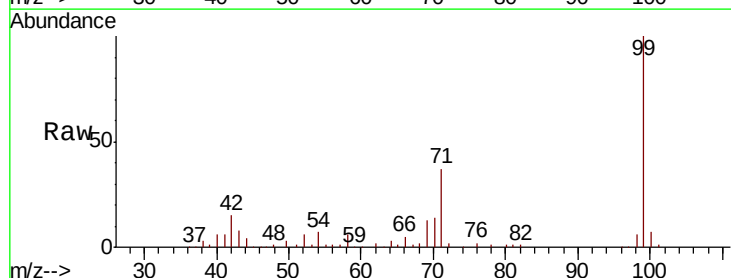
Tgt Ion: 99 Resp: 222612

Ion Ratio Lower Upper

99 100

42 15.1 12.0 18.0

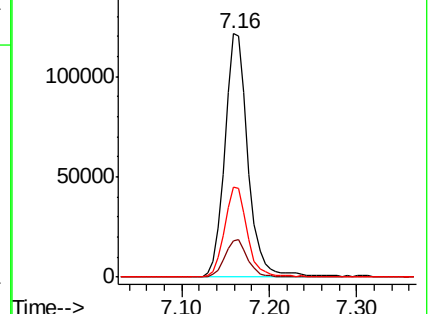
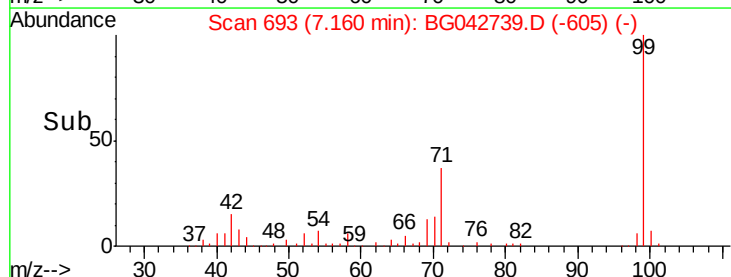
71 36.8 26.3 39.5

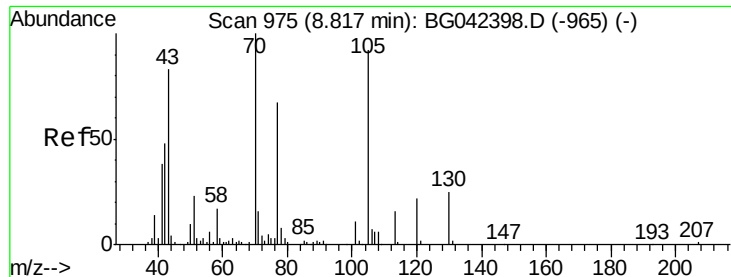


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 15.345 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampleId :

Tot Ion: 70 Resp: 20228

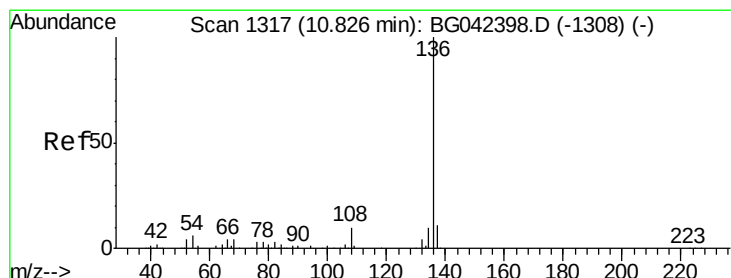
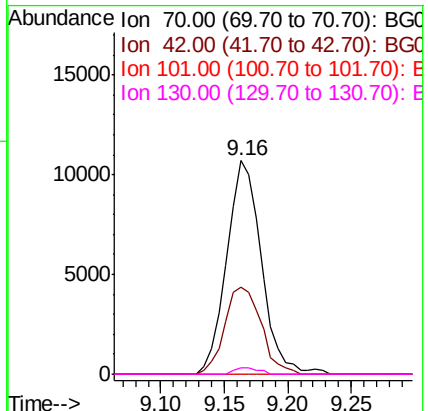
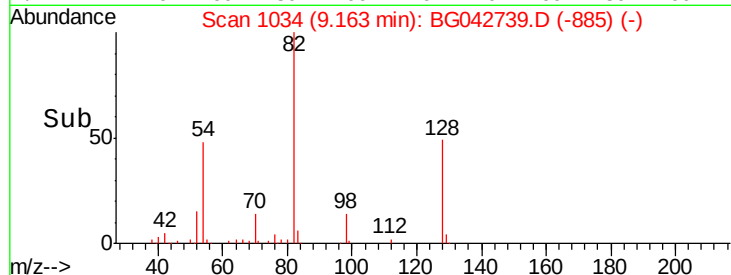
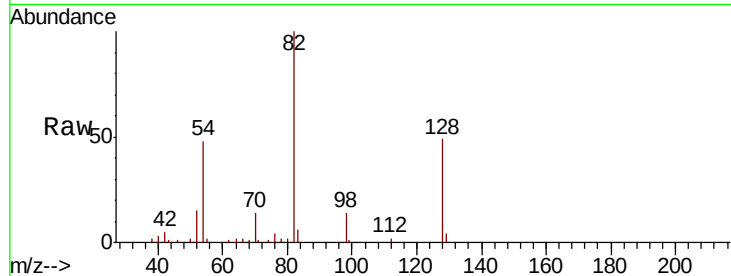
Ion Ratio Lower Upper

70 100

42 40.6 38.8 58.2

101 0.0 9.0 13.6#

130 3.0 20.0 30.0#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.82 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Tgt Ion: 136 Resp: 108744

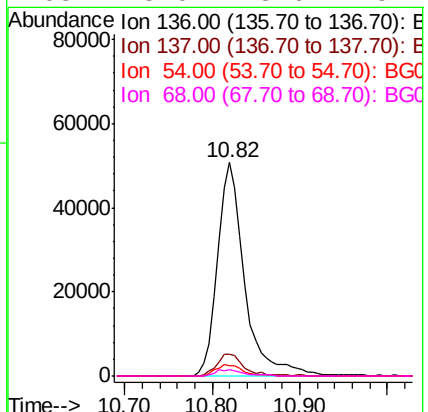
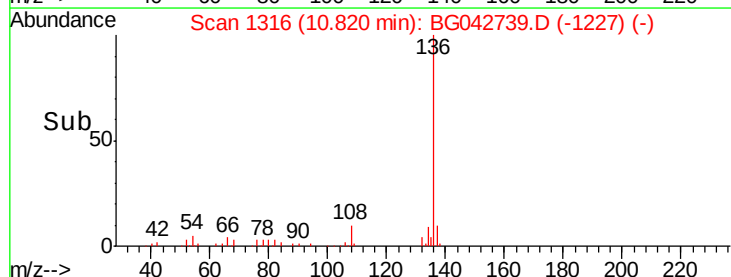
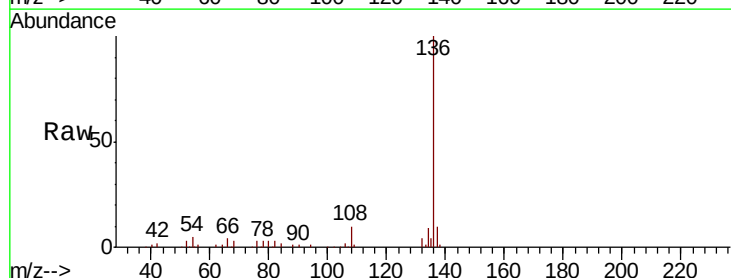
Ion Ratio Lower Upper

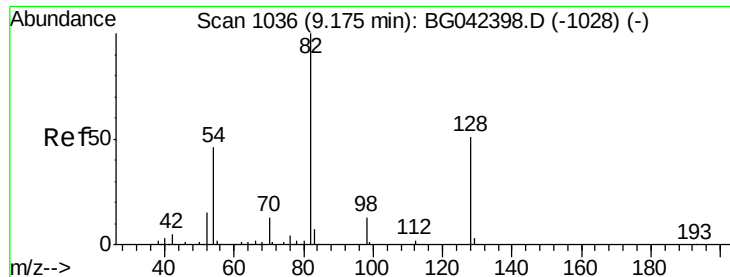
136 100

137 10.1 8.7 13.1

54 4.9 4.9 7.3#

68 3.0 3.6 5.4#

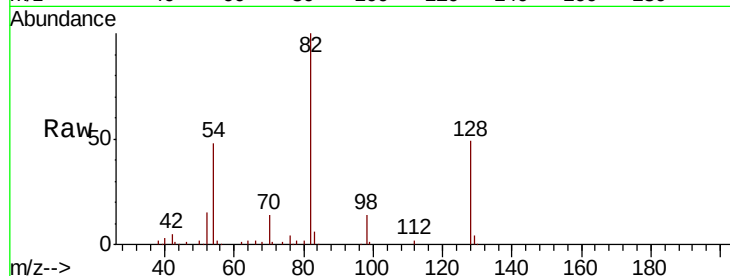




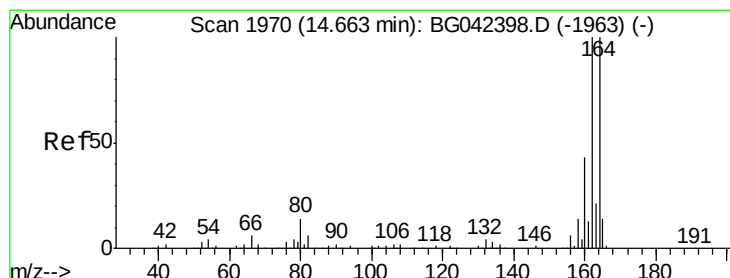
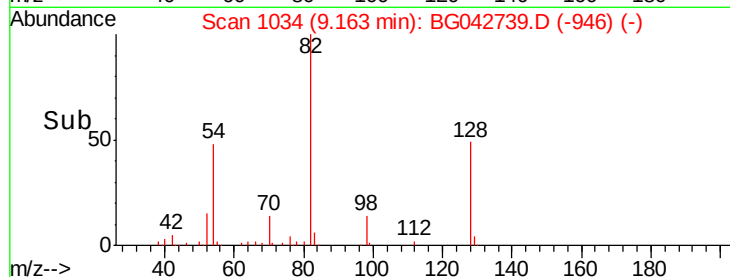
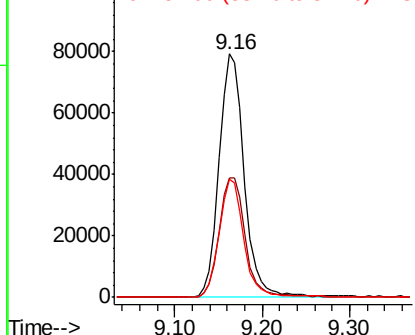
#23
Nitrobenzene-d5
Concen: 100.372 ng
RT: 9.16 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BG042739.D
Acq: 6 Sep 2019 4:19

Instrument :
BNA_G
ClientSampled :

Tot Ion	82	Resp	157948
Ion Ratio	Lower	Upper	
82	100		
128	49.2	40.7	61.1
54	48.4	36.3	54.5

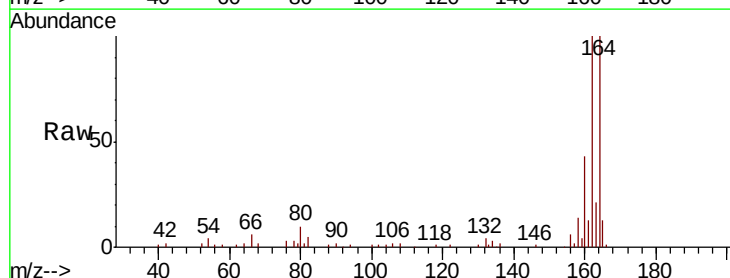


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

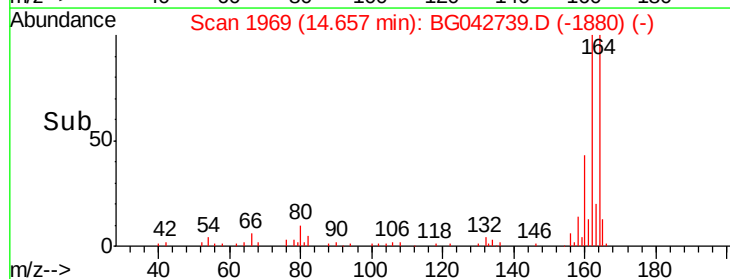
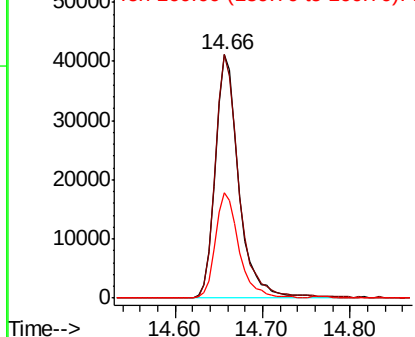


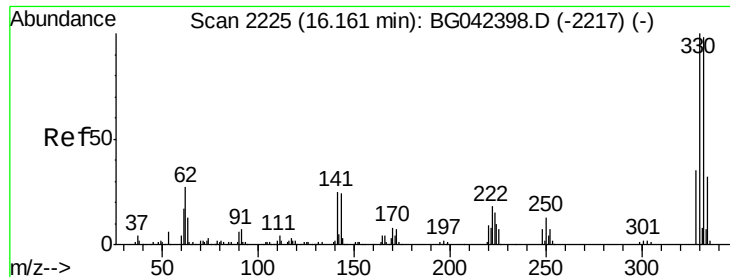
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BG042739.D
Acq: 6 Sep 2019 4:19

Tgt Ion	164	Resp	76912
Ion Ratio	Lower	Upper	
164	100		
162	100.0	79.9	119.9
160	43.3	34.3	51.5



Abundance Ion 164.00 (163.70 to 164.70): BGC
Ion 162.00 (161.70 to 162.70): BGC
Ion 160.00 (159.70 to 160.70): BGC





#42

2,4,6-Tribromophenol

Concen: 160.281 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampleId :

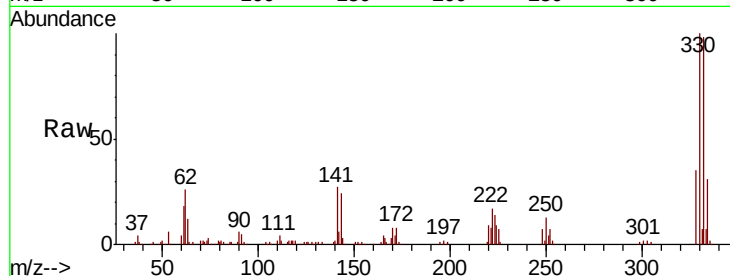
Tot Ion:330 Resp: 175216

Ion Ratio Lower Upper

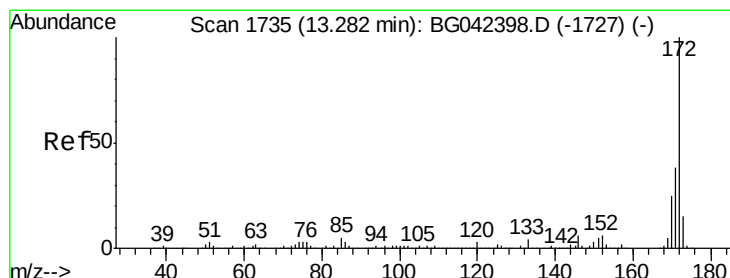
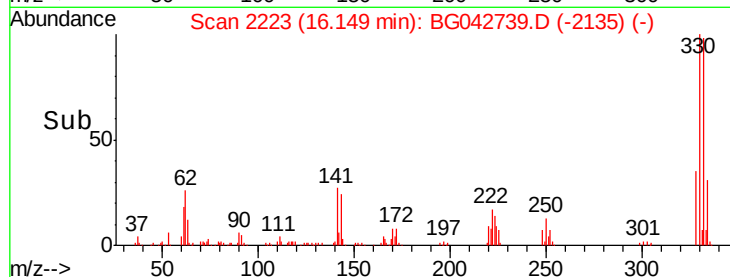
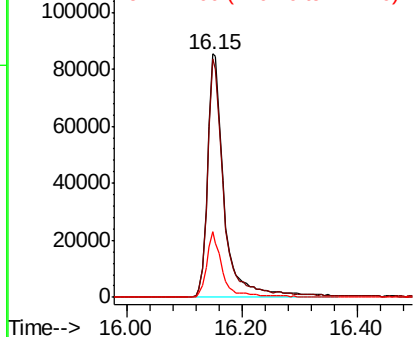
330 100

332 94.7 77.4 116.0

141 24.6 21.4 32.0



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: 111.837 ng

RT: 13.28 min Scan# 1734

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

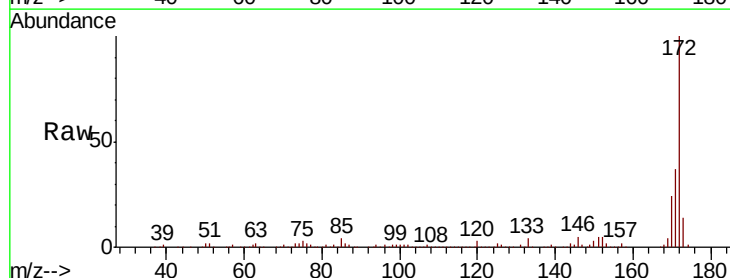
Tgt Ion:172 Resp: 508584

Ion Ratio Lower Upper

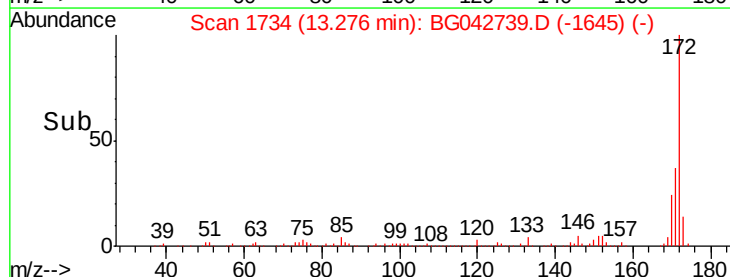
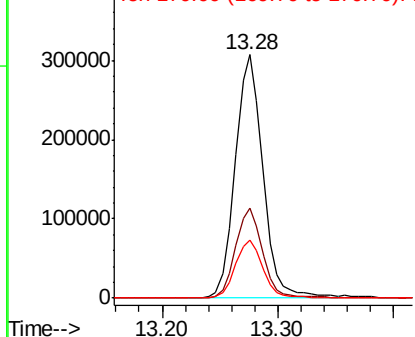
172 100

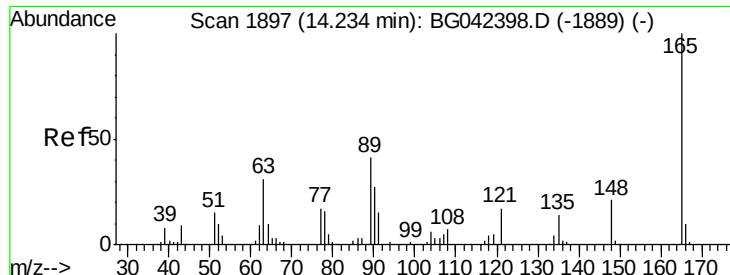
171 37.0 30.5 45.7

170 23.8 20.2 30.2



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

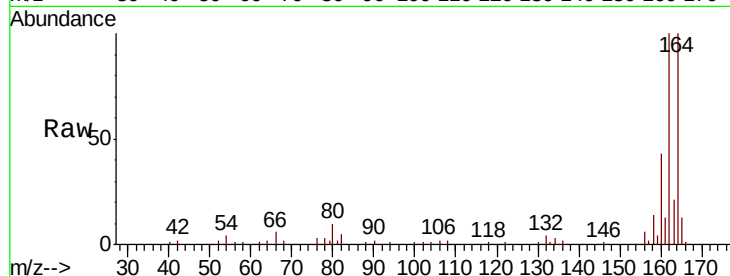




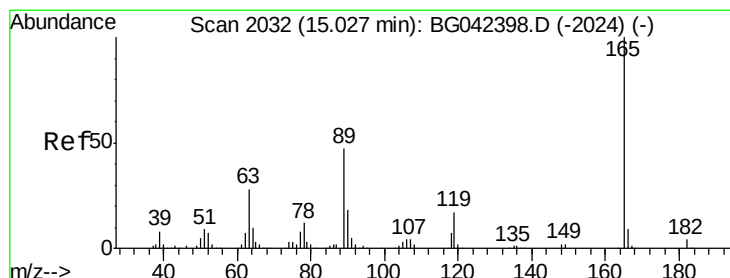
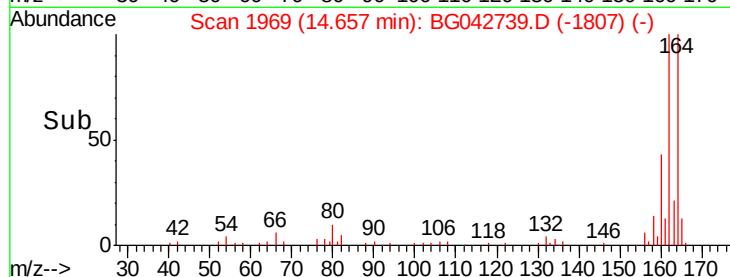
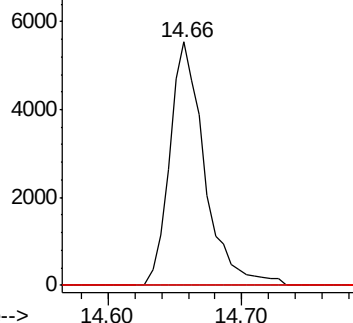
#51
 2,6-Dinitrotoluene
 Concen: 7.890 ng
 RT: 14.66 min Scan# 1969
 Delta R.T. 0.42 min
 Lab File: BG042739.D
 Acq: 6 Sep 2019 4:19

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	30.6	45.8#
89	0.0	32.6	49.0#



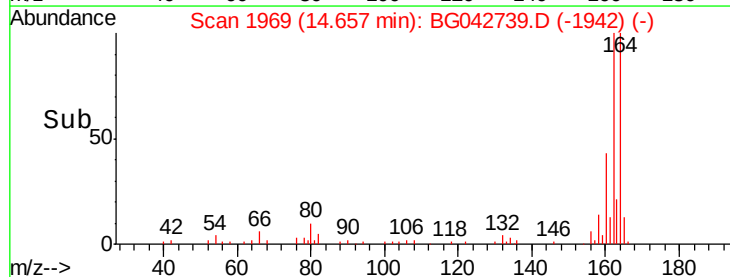
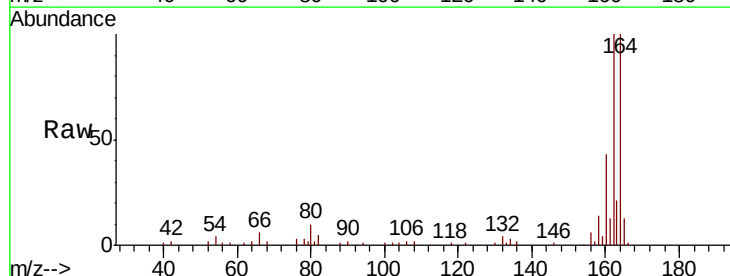
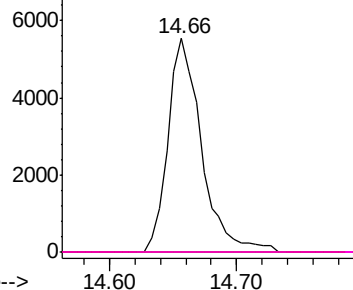
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BGC
 Ion 89.00 (88.70 to 89.70): BGC

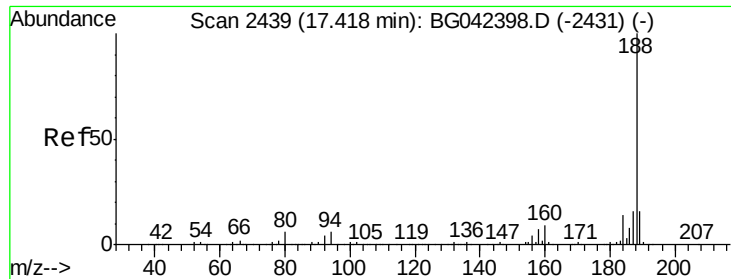


#57
 2,4-Dinitrotoluene
 Concen: 5.510 ng
 RT: 14.66 min Scan# 1969
 Delta R.T. -0.37 min
 Lab File: BG042739.D
 Acq: 6 Sep 2019 4:19

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.5	33.7#
89	0.0	37.8	56.6#
182	0.0	3.0	4.4#

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: 20.000 ng

RT: 17.41 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampleId :

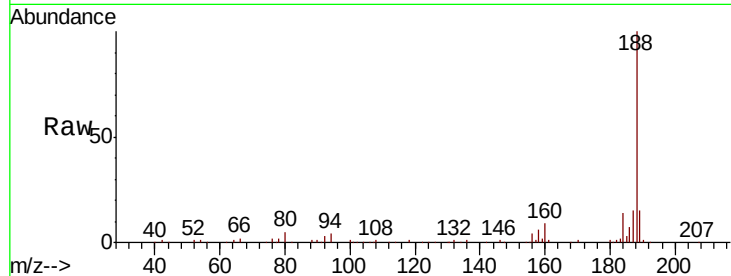
Tot Ion:188 Resp: 189713

Ion Ratio Lower Upper

188 100

94 4.5 4.5 6.7

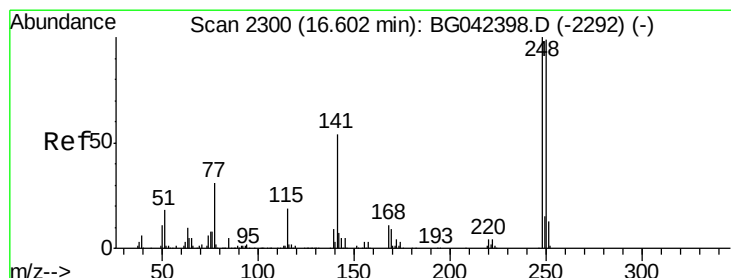
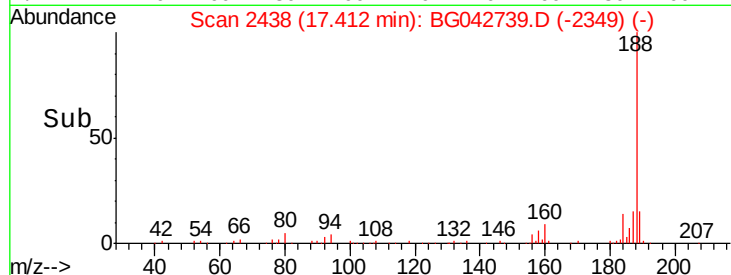
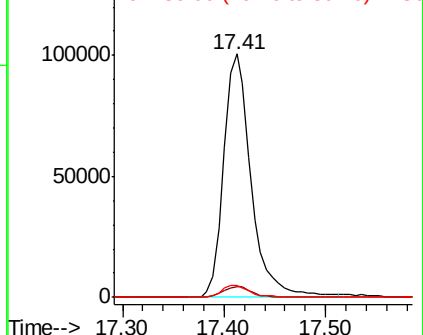
80 5.2 4.9 7.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.494 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

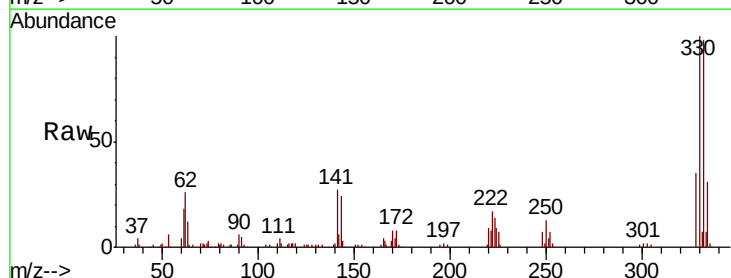
Tgt Ion:248 Resp: 10815

Ion Ratio Lower Upper

248 100

250 195.0 78.9 118.3#

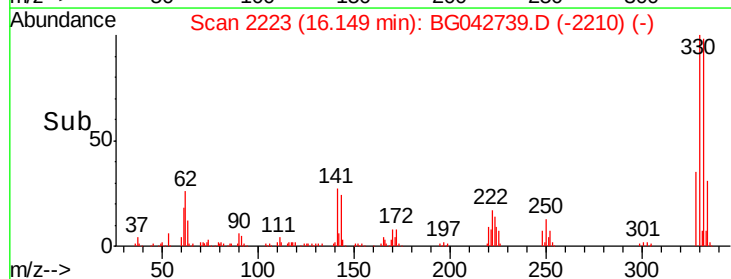
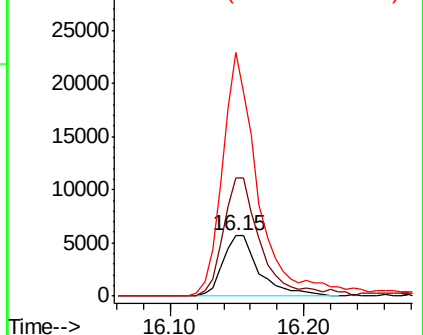
141 403.5 43.3 64.9#

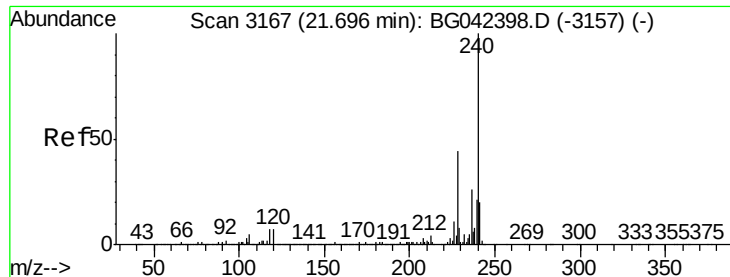


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.69 min Scan# 3166

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampleId :

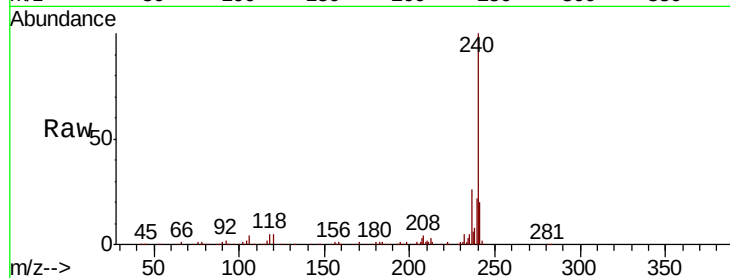
Tot Ion:240 Resp: 229651

Ion Ratio Lower Upper

240 100

120 5.2 5.7 8.5#

236 26.4 21.0 31.4

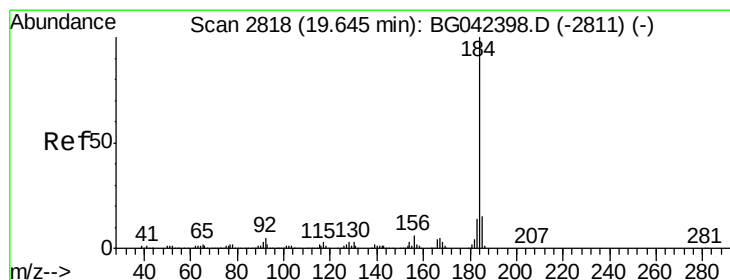
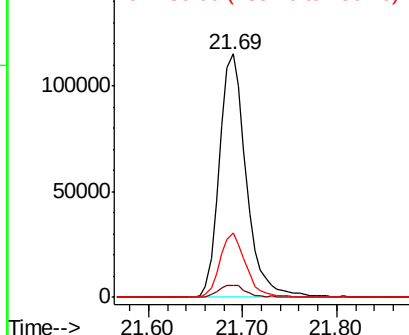
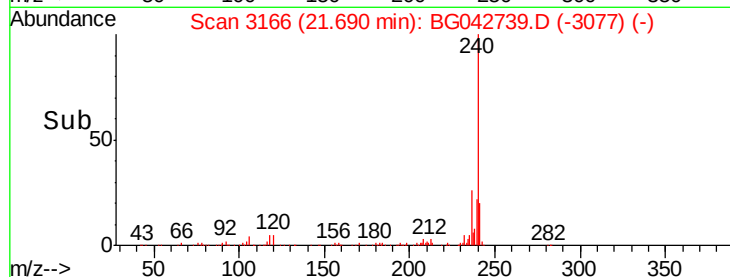


Abundance

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: 2.063 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.38 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

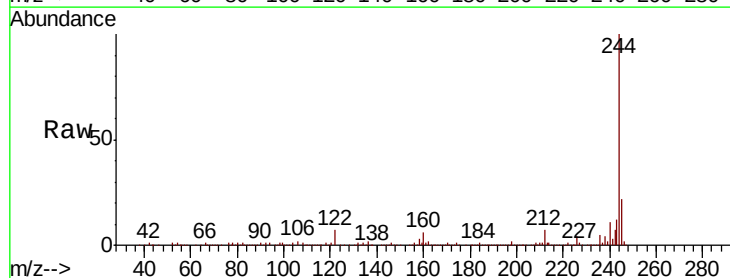
Tgt Ion:184 Resp: 13585

Ion Ratio Lower Upper

184 100

185 17.1 12.2 18.4

183 7.7 10.8 16.2#

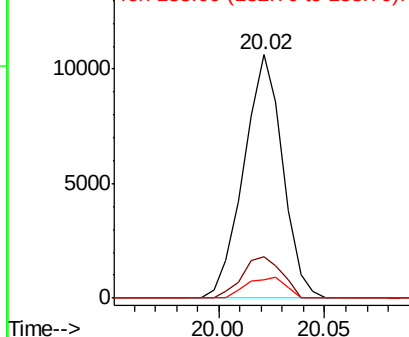
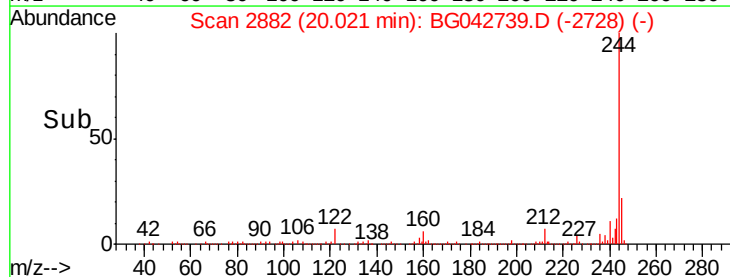


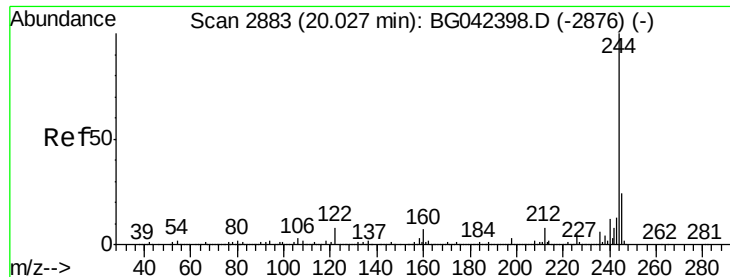
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 105.722 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

Instrument :

BNA_G

ClientSampleId :

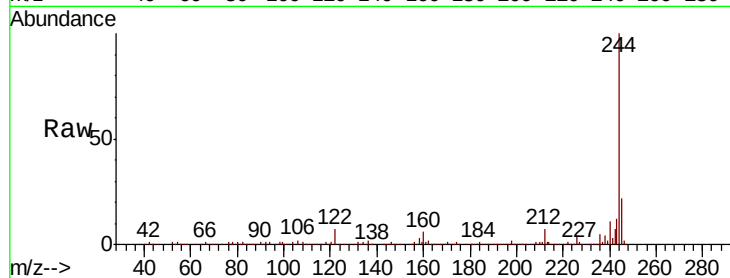
Tot Ion:244 Resp: 1123034

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

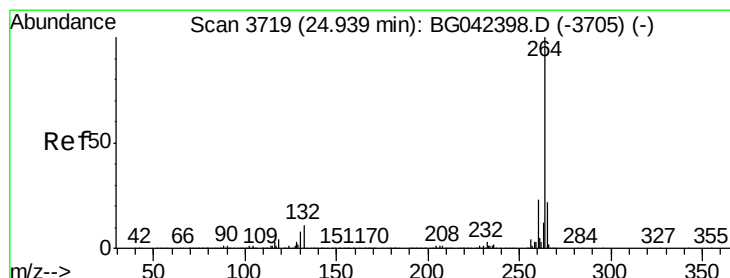
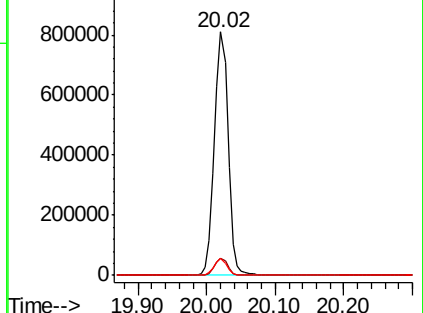
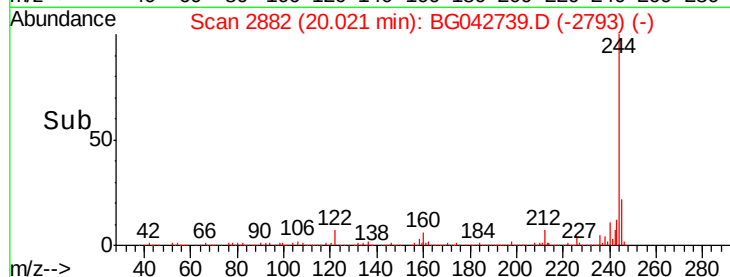
122 6.8 6.7 10.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.93 min Scan# 3718

Delta R.T. -0.01 min

Lab File: BG042739.D

Acq: 6 Sep 2019 4:19

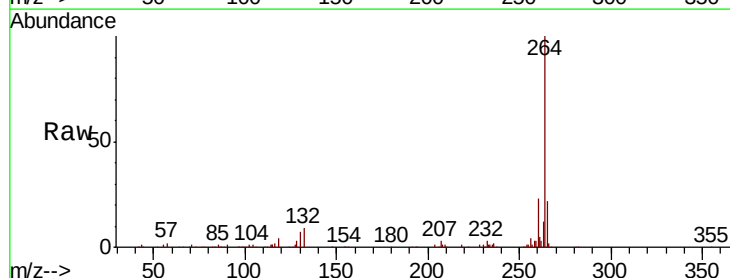
Tgt Ion:264 Resp: 267892

Ion Ratio Lower Upper

264 100

260 22.5 18.5 27.7

265 22.2 17.6 26.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

