

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG053019\
 Data File : BG040966.D
 Acq On : 31 May 2019 1:15
 Operator : HP/JU
 Sample : K3074-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: May 31 04:05:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 18:39:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	67744	20.00	ng	0.00
21) Naphthalene-d8	10.94	136	259942	20.00	ng	0.00
39) Acenaphthene-d10	14.75	164	190497	20.00	ng	0.00
64) Phenanthrene-d10	17.49	188	506295	20.00	ng	0.00
76) Chrysene-d12	21.78	240	507329	20.00	ng	0.00
87) Perylene-d12	25.11	264	537139	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.65	112	503283	133.96	ng	0.00
7) Phenol-d6	7.27	99	750925	129.42	ng	0.00
23) Nitrobenzene-d5	9.30	82	515609	88.06	ng	0.00
42) 2,4,6-Tribromophenol	16.24	330	413464	146.20	ng	0.00
45) 2-Fluorobiphenyl	13.38	172	1170575	88.49	ng	0.00
79) Terphenyl-d14	20.09	244	1972705	82.53	ng	0.00

Target Compounds

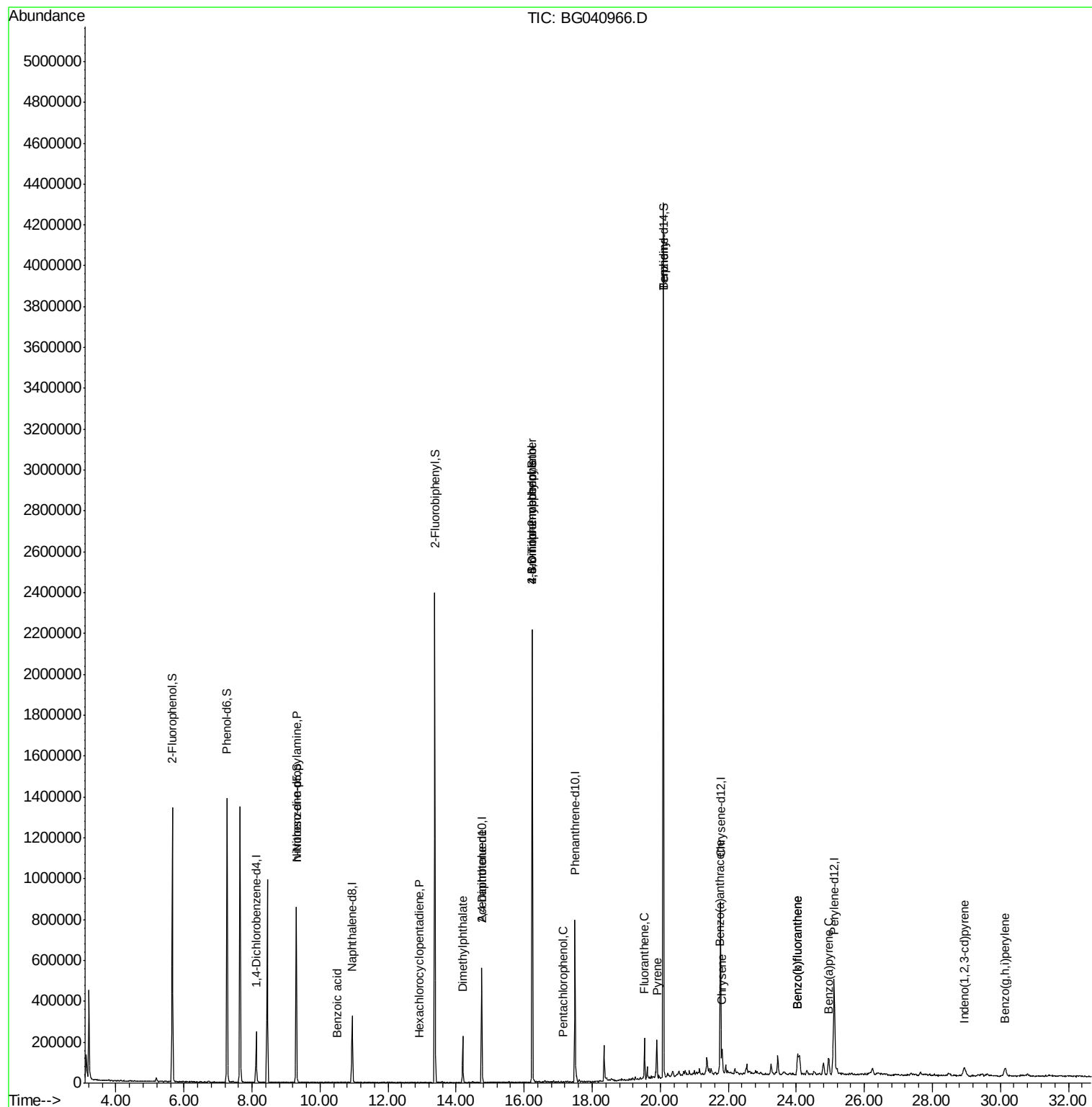
						Qvalue
19) n-Nitroso-di-n-propylamine	9.30	70	74597	16.707	ng	# 70
32) Benzoic acid	10.49	122	64	8.147	ng	# 1
41) Hexachlorocyclopentadiene	12.91	237	87	8.254	ng	# 26
50) Dimethylphthalate	14.19	163	140827	8.733	ng	# 97
57) 2,4-Dinitrotoluene	14.75	165	25632	5.219	ng	# 23
65) 4,6-Dinitro-2-methylphenol	16.24	198	1431	9.023	ng	# 1
67) 4-Bromophenyl-phenylether	16.24	248	30674	4.489	ng	# 1
70) Pentachlorophenol	17.16	266	60	4.270	ng	# 18
75) Fluoranthene	19.54	202	130461	4.005	ng	# 96
77) Benzidine	20.09	184	38195	3.156	ng	# 92
78) Pyrene	19.90	202	128907	3.909	ng	# 97
81) Benzo(a)anthracene	21.75	228	91540	2.711	ng	# 99
83) Chrysene	21.82	228	85563	2.648	ng	# 98
86) Indeno(1,2,3-cd)pyrene	28.94	276	80550	2.035	ng	# 99
88) Benzo(b)fluoranthene	24.05	252	130541	4.007	ng	# 93
89) Benzo(k)fluoranthene	24.05	252	130541	4.049	ng	# 95
90) Benzo(a)pyrene	24.95	252	97624	3.141	ng	# 93
92) Benzo(g,h,i)perylene	30.14	276	80171	2.657	ng	# 97

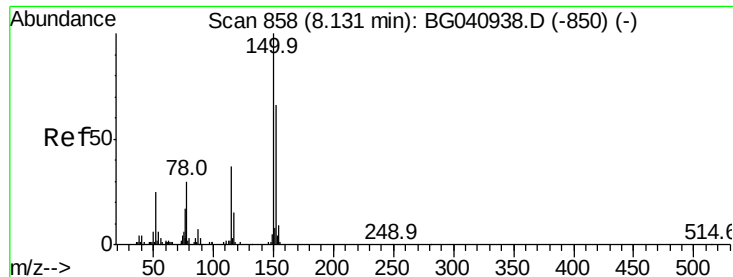
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.12 min Scan# 857

Delta R.T. -0.01 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Instrument :

BNA_G

ClientSampleId :

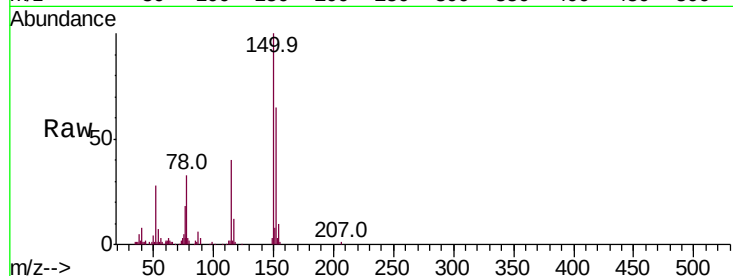
Tot Ion:152 Resp: 67744

Ion Ratio Lower Upper

152 100

150 153.3 120.6 180.8

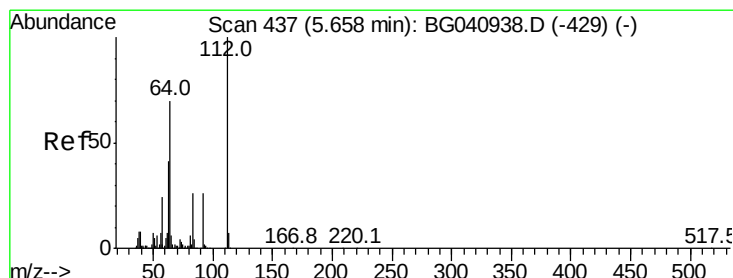
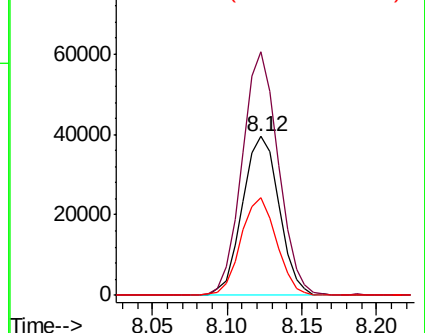
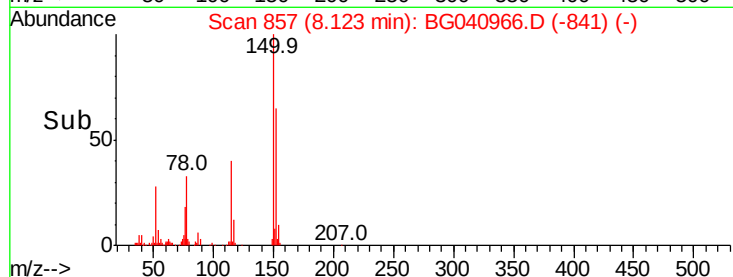
115 61.8 45.1 67.7



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



#5

2-Fluorophenol

Concen: 133.964 ng

RT: 5.65 min Scan# 437

Delta R.T. -0.00 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

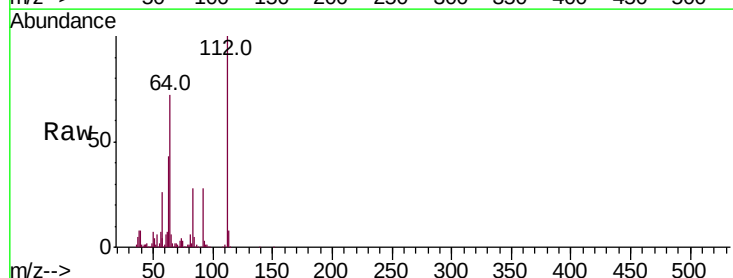
Tgt Ion:112 Resp: 503283

Ion Ratio Lower Upper

112 100

64 71.6 56.2 84.2

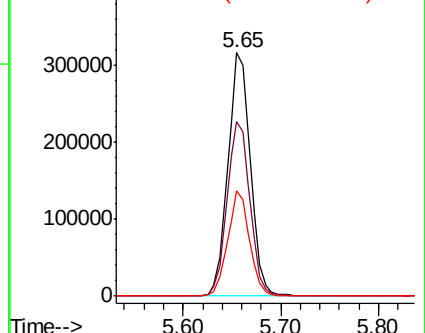
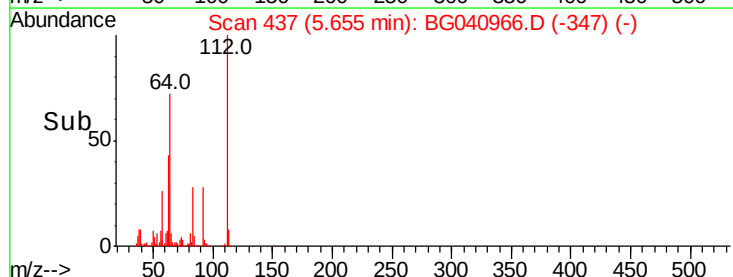
63 43.3 32.8 49.2

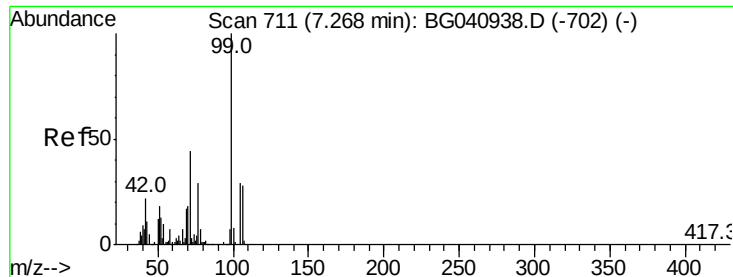


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 129.424 ng

RT: 7.27 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Instrument :

BNA_G

ClientSampled :

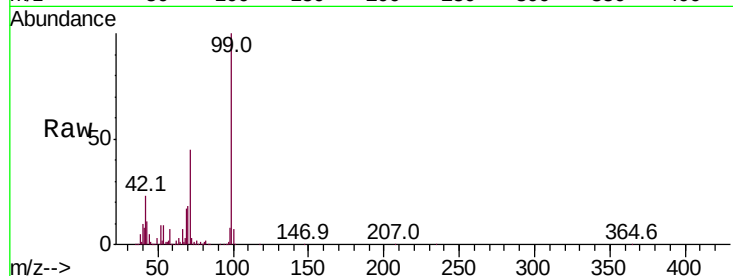
Tot Ion: 99 Resp: 750925

Ion Ratio Lower Upper

99 100

42 23.1 17.9 26.9

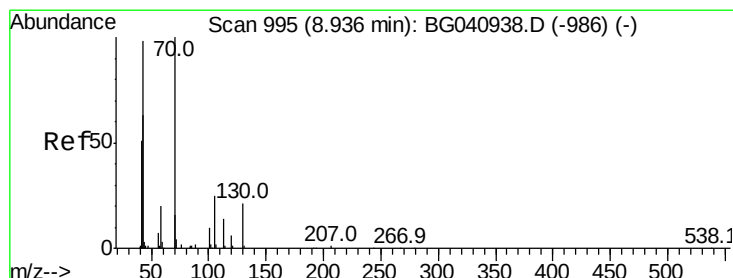
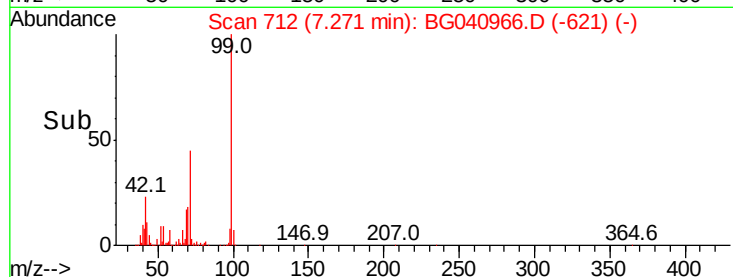
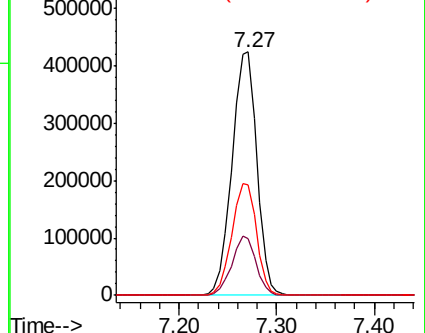
71 45.2 35.4 53.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.707 ng

RT: 9.30 min Scan# 1057

Delta R.T. 0.36 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Tgt Ion: 70 Resp: 74597

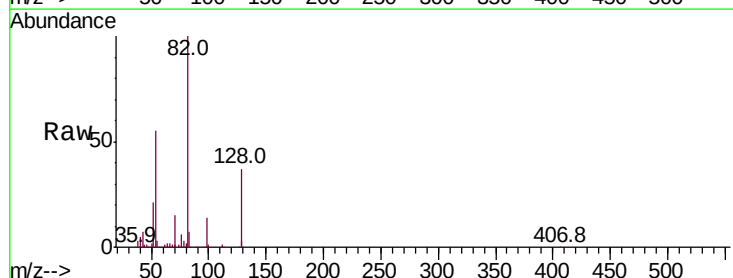
Ion Ratio Lower Upper

70 100

42 43.8 51.5 77.3#

101 0.0 8.1 12.1#

130 1.6 16.6 24.8#

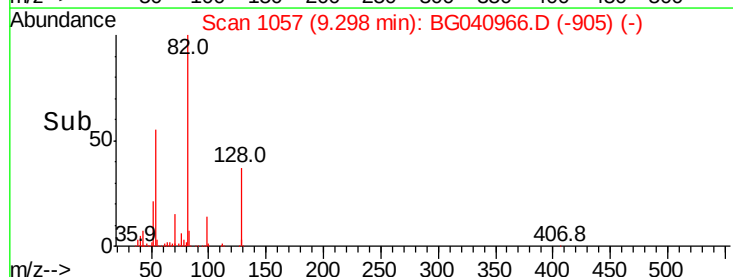
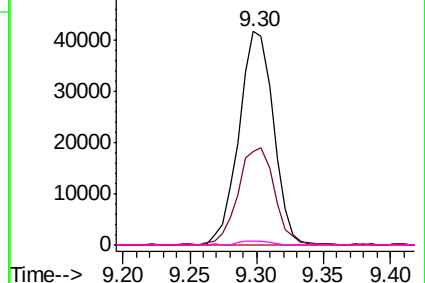


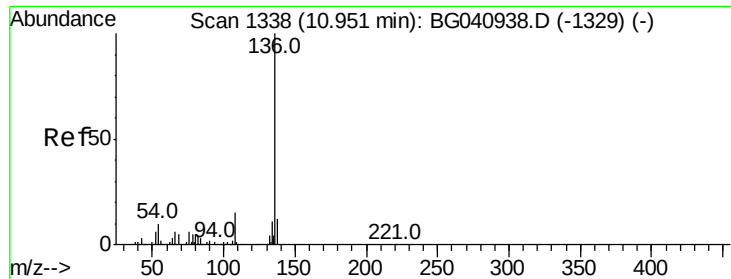
Abundance Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC

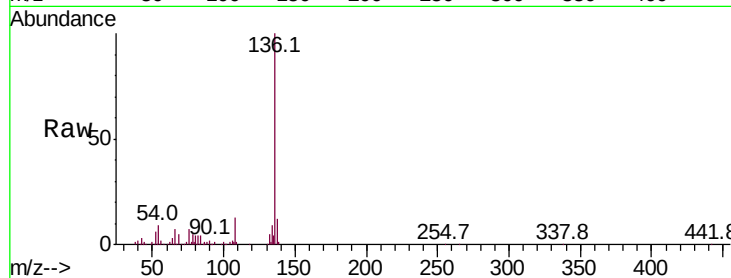




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.94 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Instrument :
BNA_G
ClientSampled :

Tot Ion:136	Resp:	259942	
Ion Ratio	Lower	Upper	
136 100			
137 12.0	9.5	14.3	
54 9.4	7.6	11.4	
68 5.2	3.9	5.9	



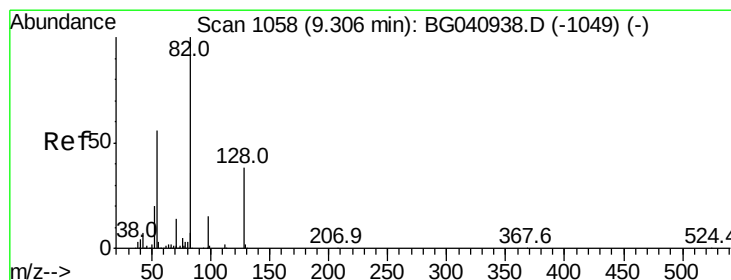
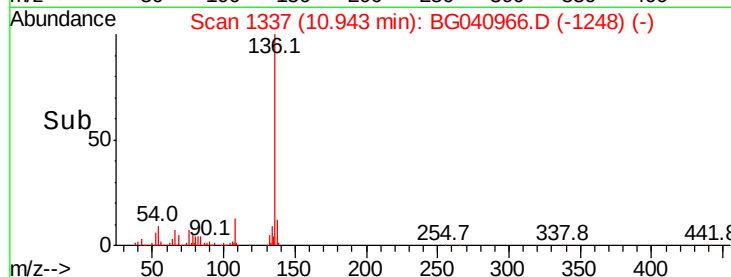
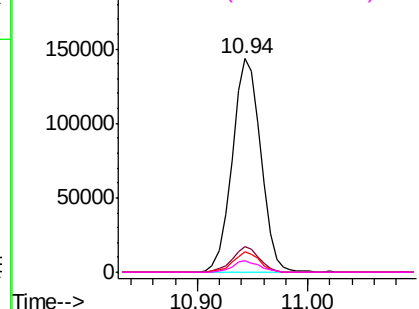
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

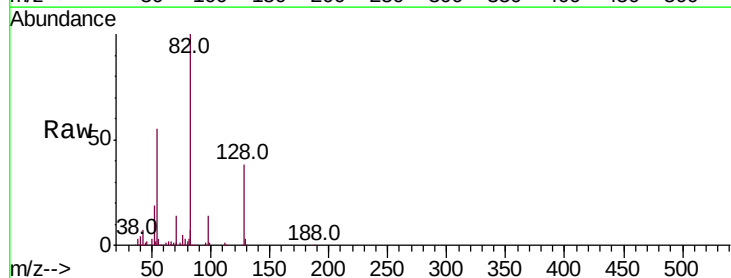
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23
Nitrobenzene-d5
Concen: 88.057 ng
RT: 9.30 min Scan# 1058
Delta R.T. -0.00 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt	Ion: 82	Resp:	515609
Ion	Ratio	Lower	Upper
82	100		
128	37.8	30.5	45.7
54	54.5	44.6	66.8

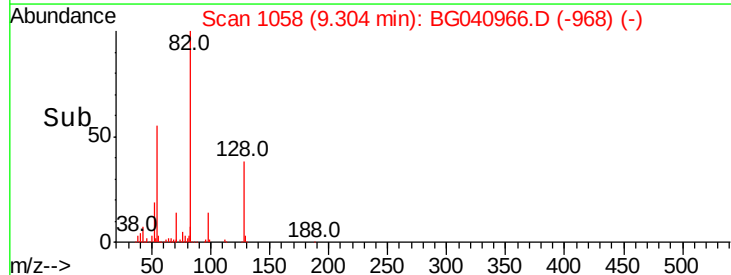
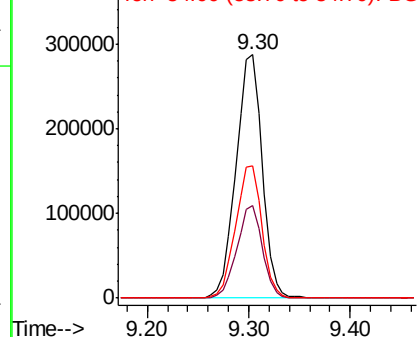


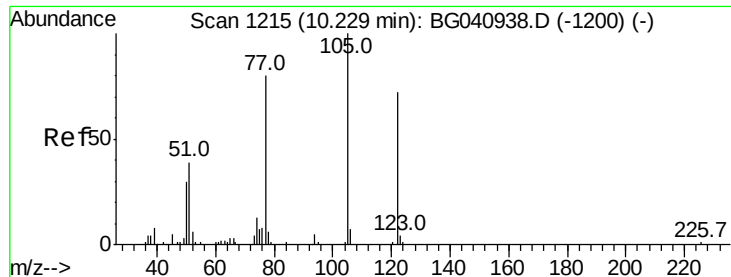
Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

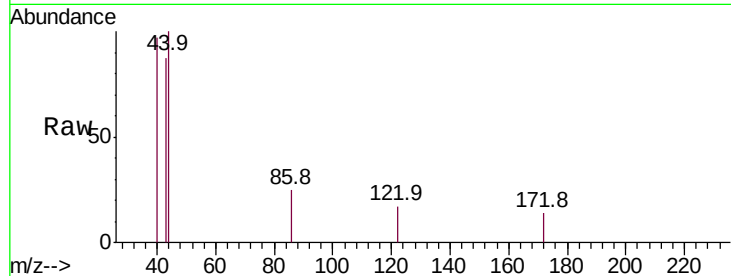




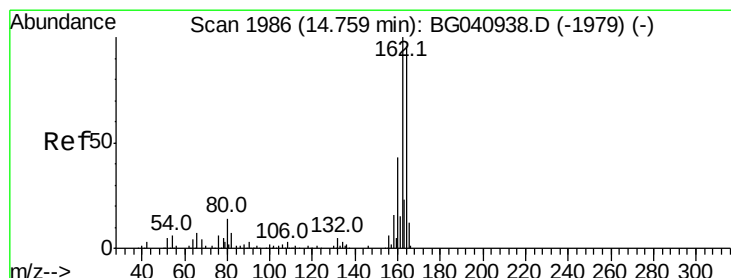
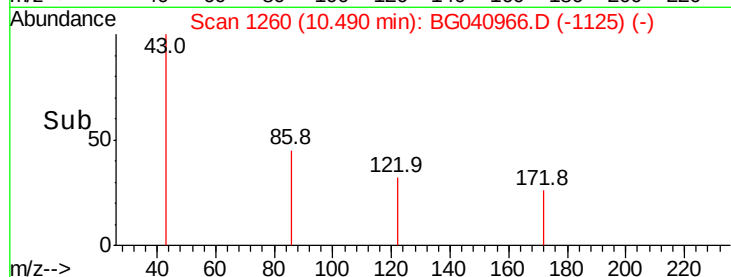
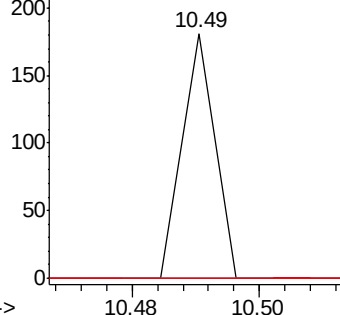
#32
Benzoic acid
Concen: 8.147 ng
RT: 10.49 min Scan# 1260
Delta R.T. 0.26 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Instrument :
BNA_G
ClientSampled :

Tot Ion:122 Resp: 64
Ion Ratio Lower Upper
122 100
105 0.0 114.8 154.8#
77 0.0 89.9 129.9#

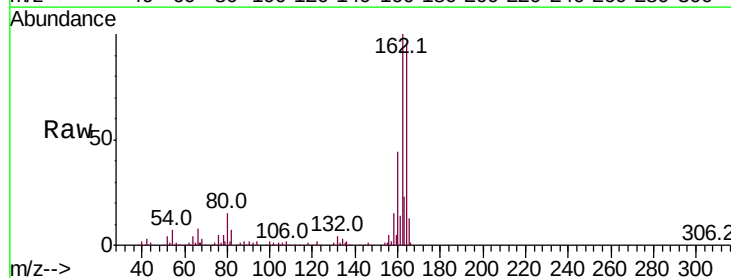


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BGC

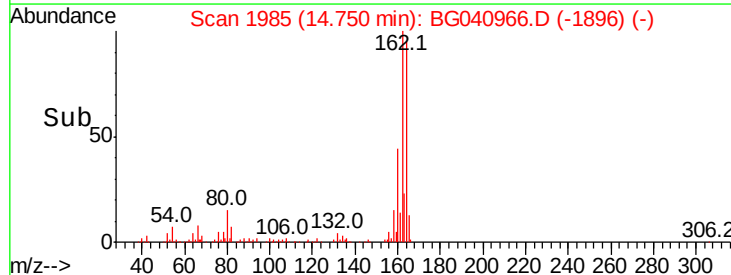
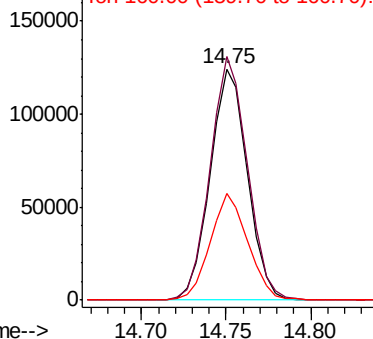


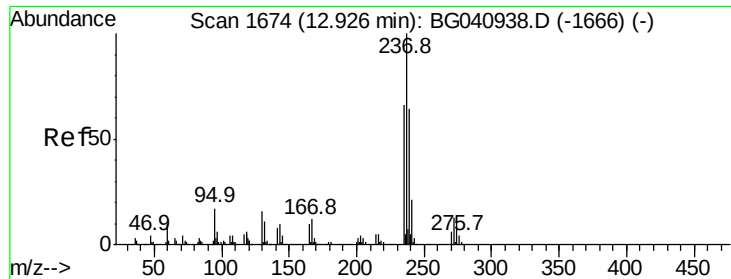
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.75 min Scan# 1985
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion:164 Resp: 190497
Ion Ratio Lower Upper
164 100
162 105.4 83.0 124.4
160 46.0 35.6 53.4



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





#41

Hexachlorocyclopentadiene

Concen: 8.254 ng

RT: 12.91 min Scan# 1672

Delta R.T. -0.01 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Instrument :

BNA_G

ClientSampled :

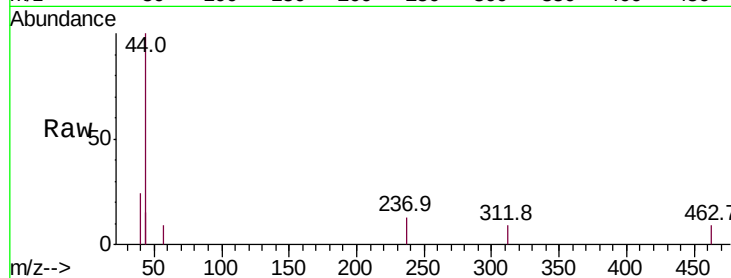
Tot Ion: 237 Resp: 87

Ion Ratio Lower Upper

237 100

235 0.0 45.5 85.5#

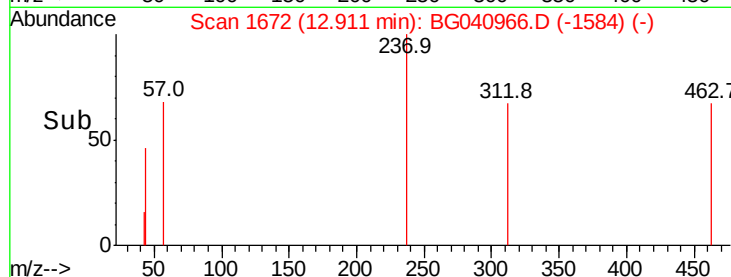
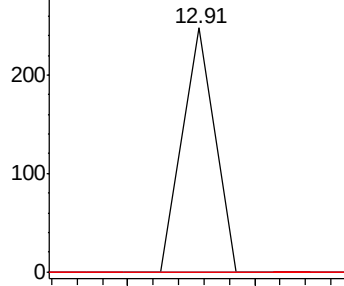
272 0.0 0.0 32.9



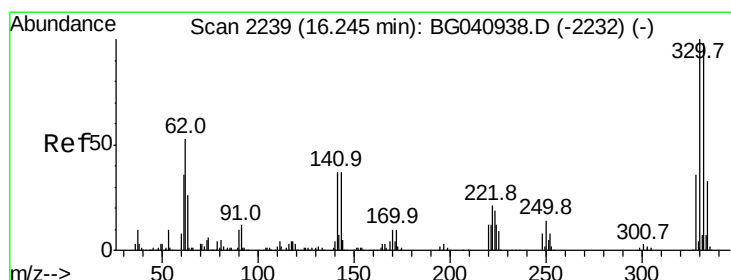
Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



Time-->



#42

2,4,6-Tribromophenol

Concen: 146.201 ng

RT: 16.24 min Scan# 2239

Delta R.T. -0.00 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

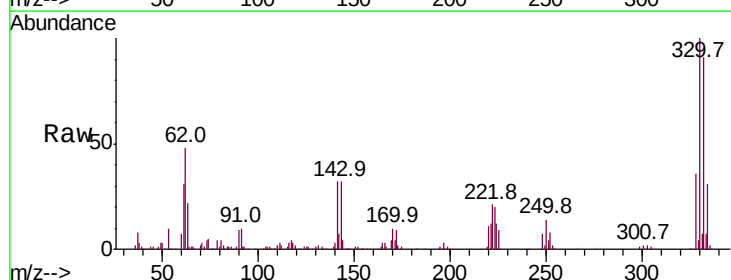
Tgt Ion: 330 Resp: 413464

Ion Ratio Lower Upper

330 100

332 95.3 78.5 117.7

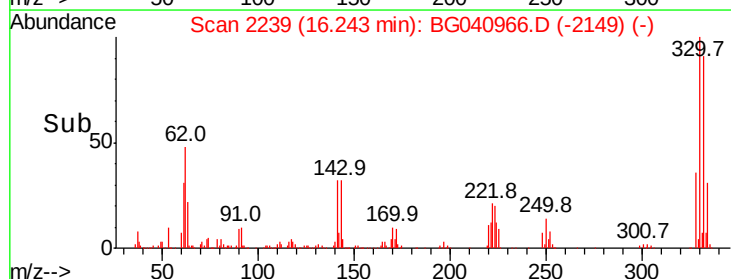
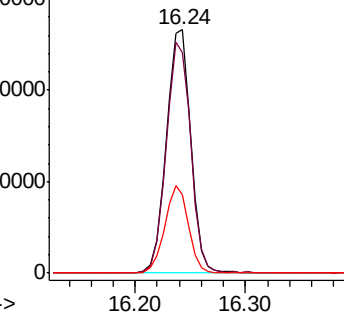
141 34.6 28.7 43.1



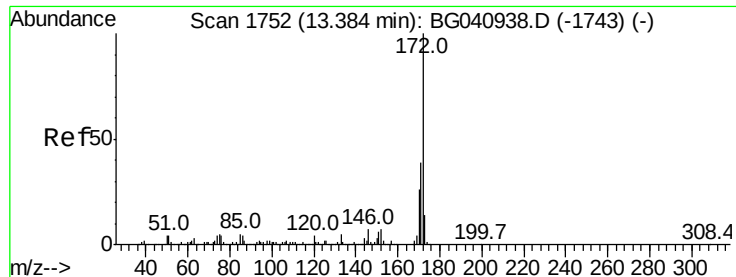
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



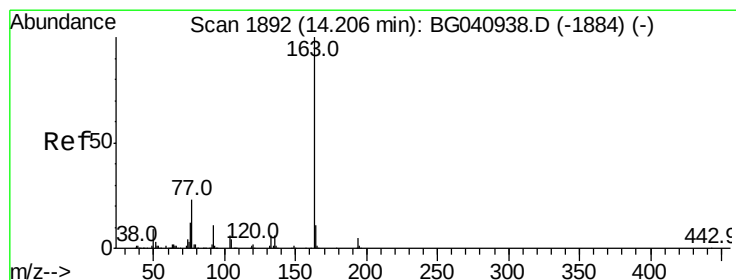
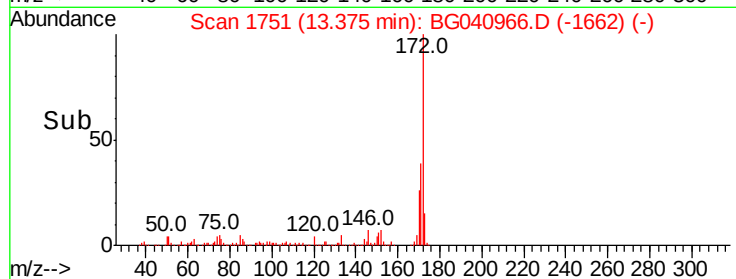
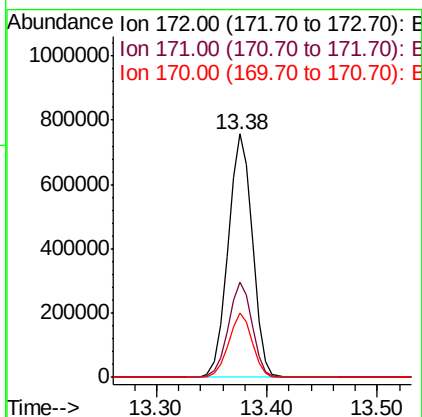
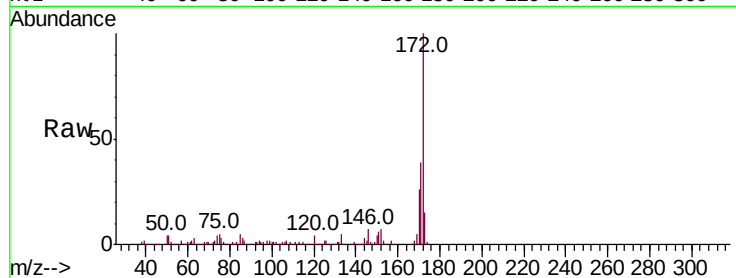
Time-->



#45
2-Fluorobiphenyl
Concen: 88.492 ng
RT: 13.38 min Scan# 1751
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

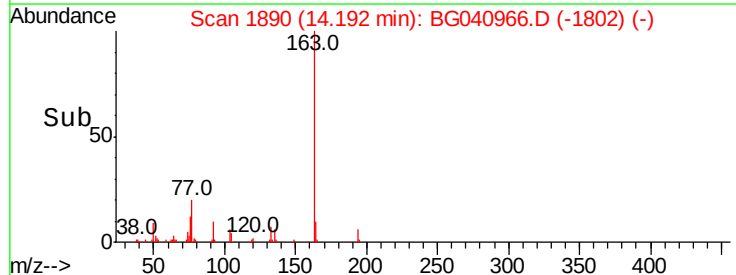
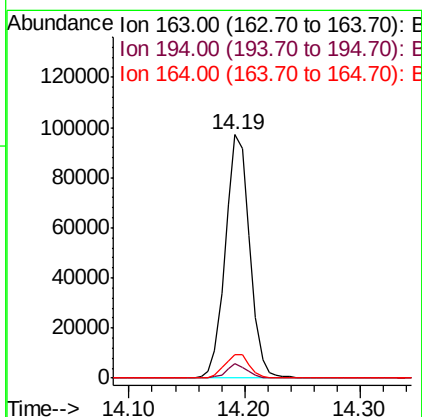
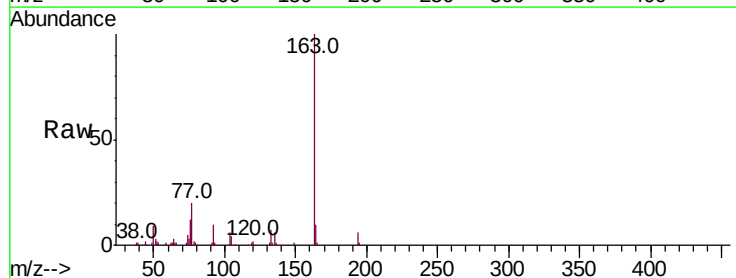
Instrument :
BNA_G
ClientSampled :

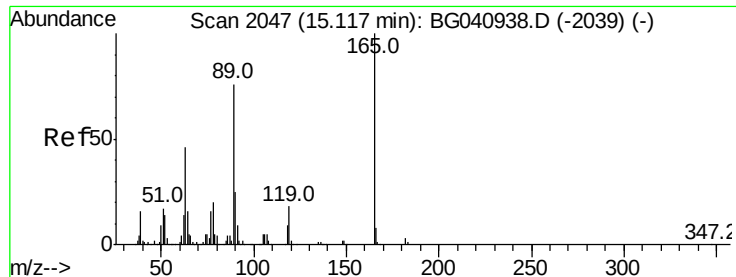
Tot Ion:172 Resp: 1170575
Ion Ratio Lower Upper
172 100
171 39.0 31.1 46.7
170 26.3 20.5 30.7



#50
Dimethylphthalate
Concen: 8.733 ng
RT: 14.19 min Scan# 1890
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion:163 Resp: 140827
Ion Ratio Lower Upper
163 100
194 6.2 3.8 5.8#
164 9.8 8.7 13.1





#57

2,4-Dinitrotoluene

Concen: 5.219 ng

RT: 14.75 min Scan# 1985

Delta R.T. -0.37 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Instrument :

BNA_G

ClientSampled :

Tot Ion:165 Resp: 25632

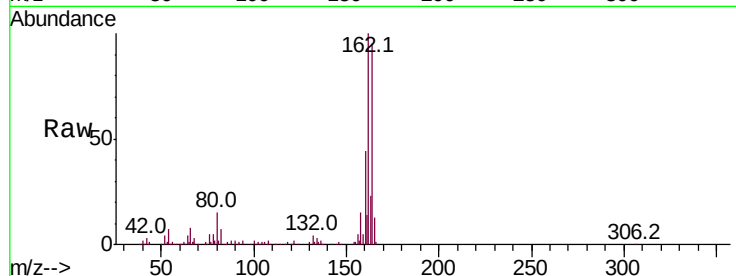
Ion Ratio Lower Upper

165 100

63 1.9 37.3 55.9#

89 3.1 61.0 91.6#

182 0.0 2.2 3.2#

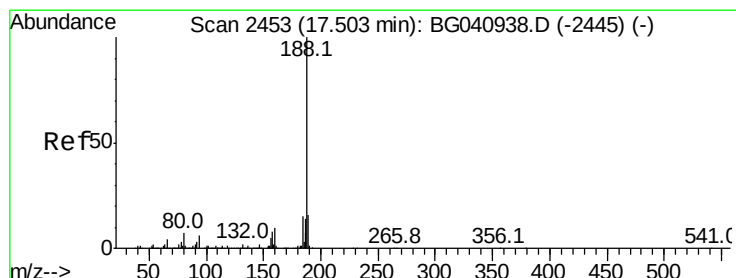
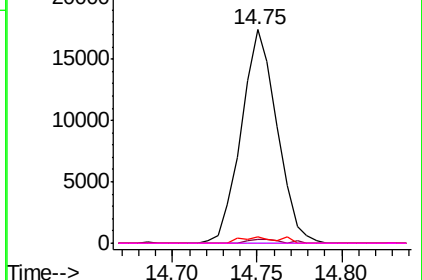
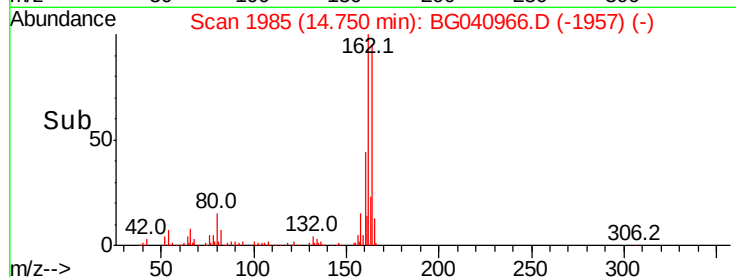


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.49 min Scan# 2452

Delta R.T. -0.01 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

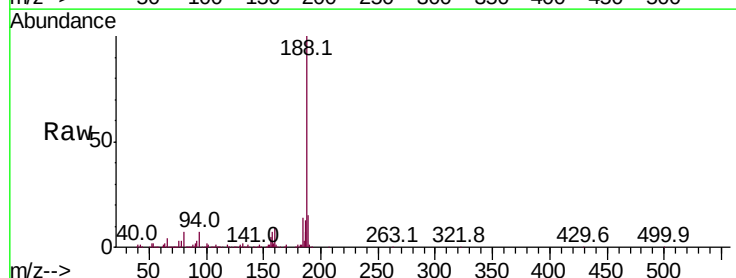
Tgt Ion:188 Resp: 506295

Ion Ratio Lower Upper

188 100

94 6.6 4.7 7.1

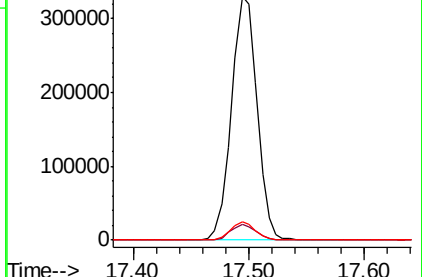
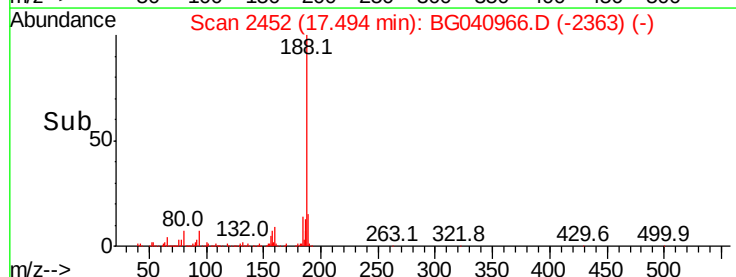
80 7.4 5.8 8.8

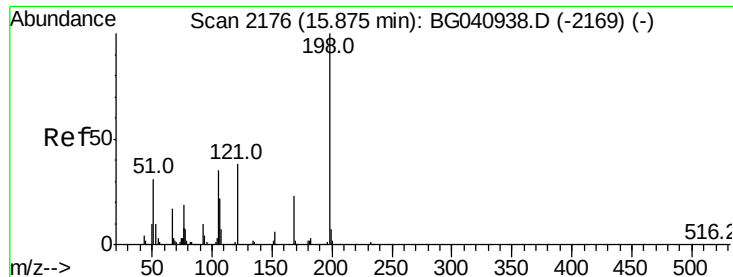


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

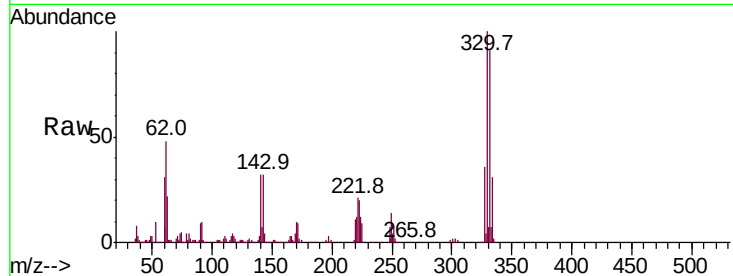




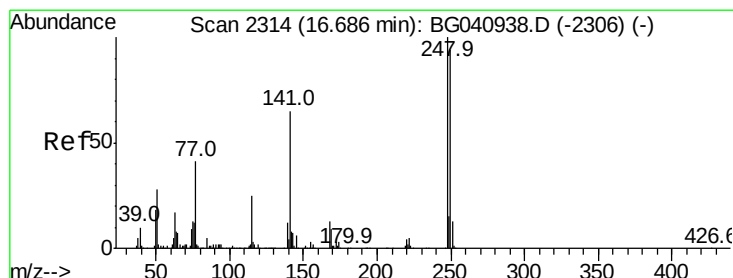
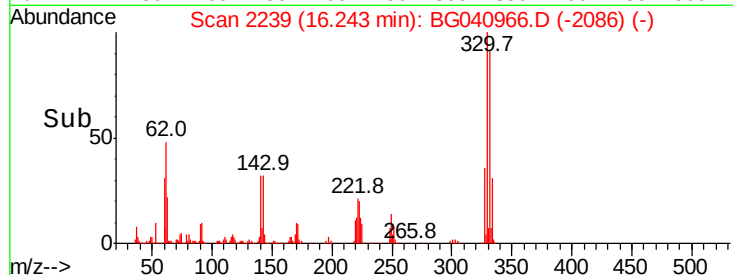
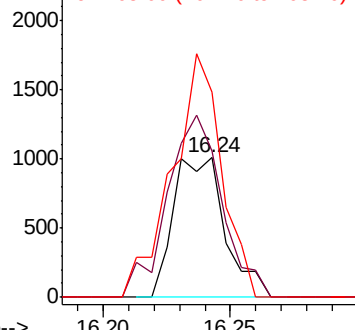
#65
4,6-Dinitro-2-methylphenol
Concen: 9.023 ng
RT: 16.24 min Scan# 2239
Delta R.T. 0.37 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Instrument :
BNA_G
ClientSampled :

Tot Ion:198 Resp: 1431
Ion Ratio Lower Upper
198 100
51 105.2 21.6 61.6#
105 147.6 17.5 57.5#

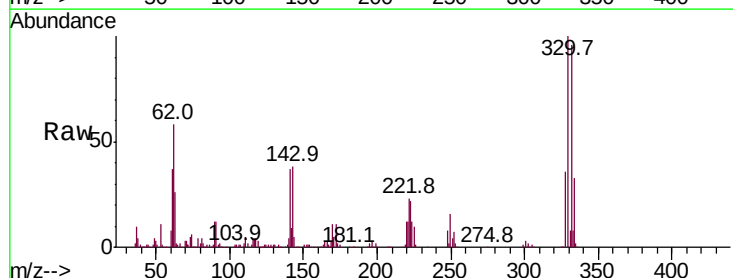


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BG
Ion 105.00 (104.70 to 105.70): E

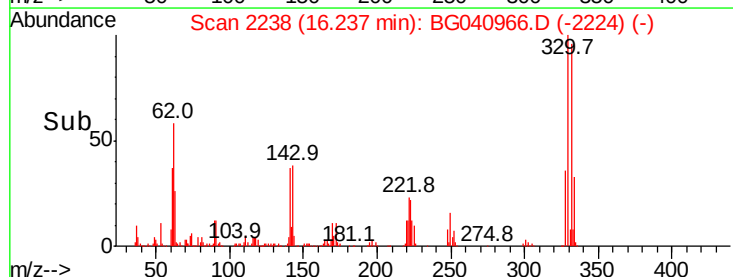
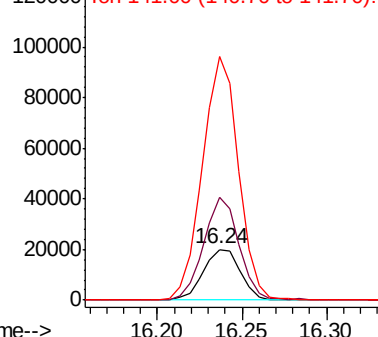


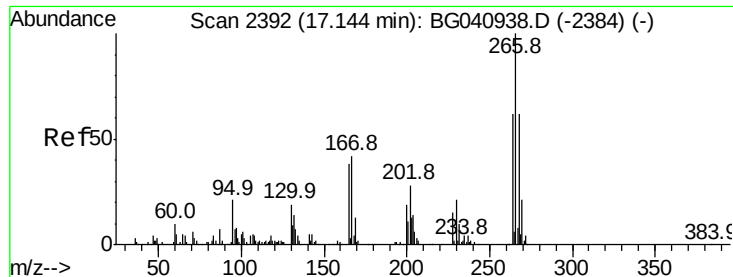
#67
4-Bromophenyl-phenylether
Concen: 4.489 ng
RT: 16.24 min Scan# 2238
Delta R.T. -0.45 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion:248 Resp: 30674
Ion Ratio Lower Upper
248 100
250 203.0 75.0 112.4#
141 478.7 52.4 78.6#



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





#70

Pentachlorophenol

Concen: 4.270 ng

RT: 17.16 min Scan# 2395

Delta R.T. 0.02 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

Instrument :

BNA_G

ClientSampleId :

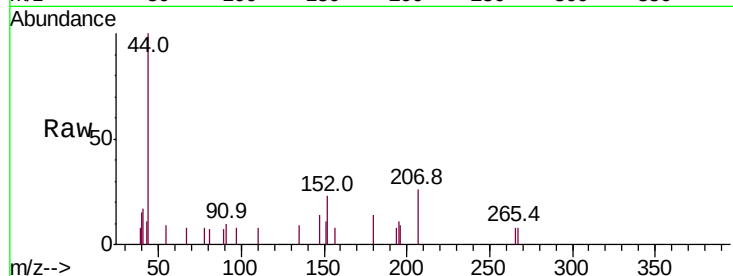
Tot Ion:266 Resp: 60

Ion Ratio Lower Upper

266 100

268 0.0 53.1 79.7#

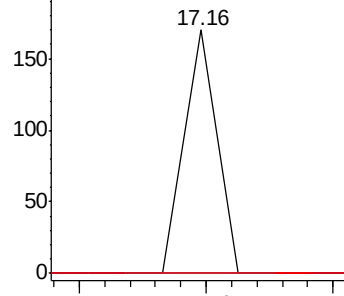
264 0.0 49.9 74.9#



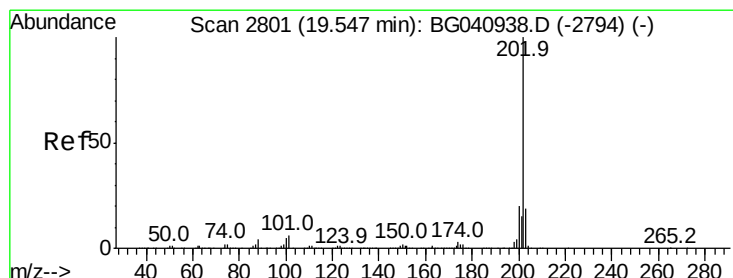
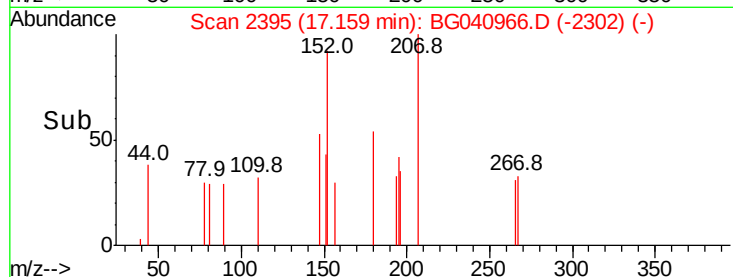
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time-->



#75

Fluoranthene

Concen: 4.005 ng

RT: 19.54 min Scan# 2800

Delta R.T. -0.01 min

Lab File: BG040966.D

Acq: 31 May 2019 1:15

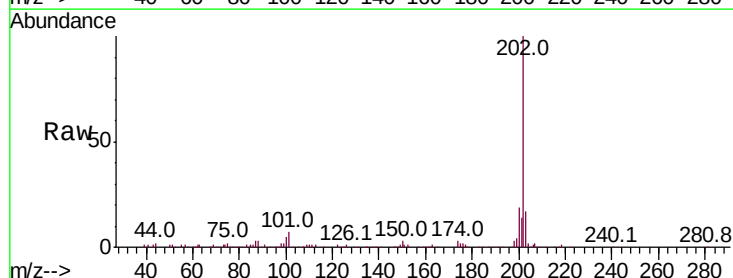
Tgt Ion:202 Resp: 130461

Ion Ratio Lower Upper

202 100

101 6.9 0.0 26.2

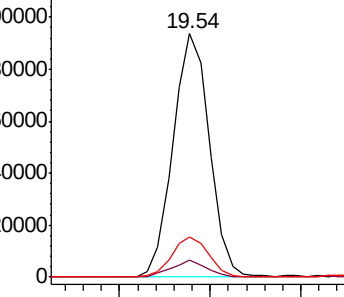
203 16.6 0.0 38.7



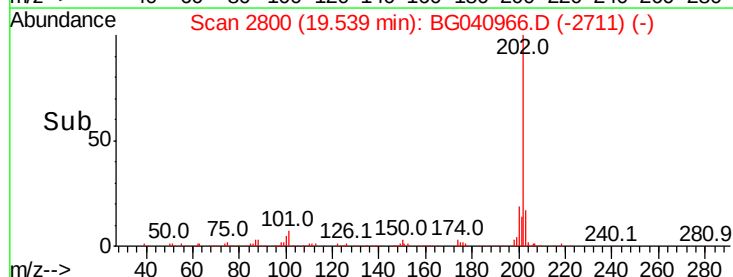
Abundance Ion 202.00 (201.70 to 202.70): E

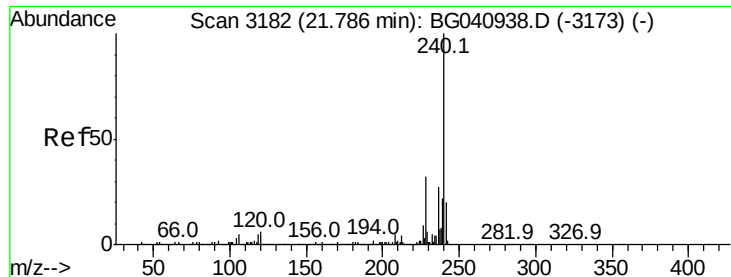
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

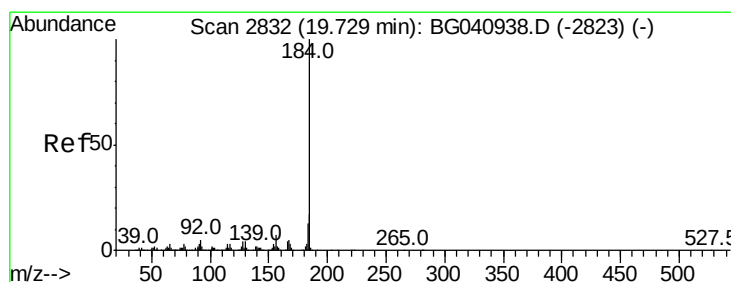
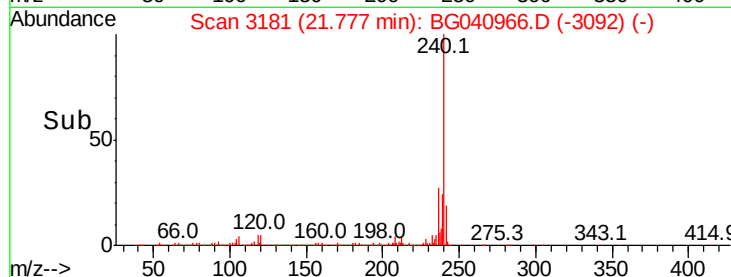
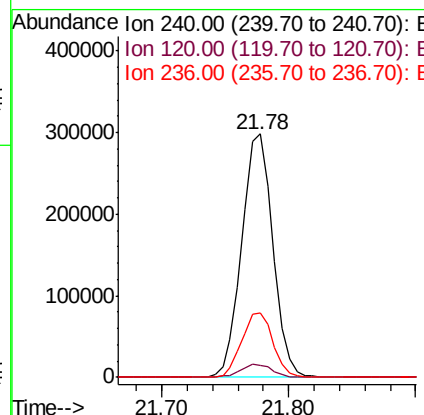
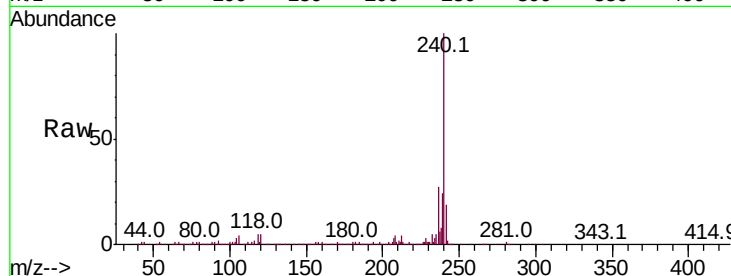




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.78 min Scan# 3181
 Delta R.T. -0.01 min
 Lab File: BG040966.D
 Acq: 31 May 2019 1:15

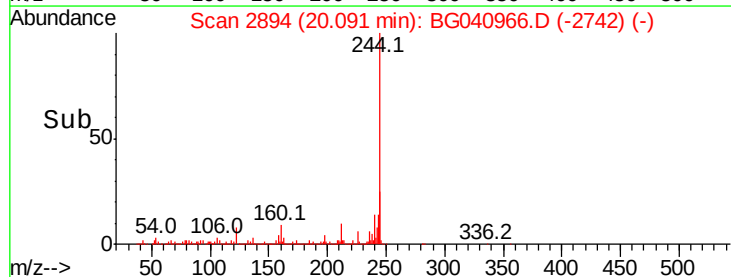
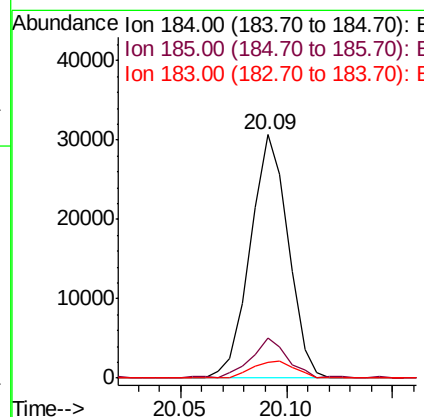
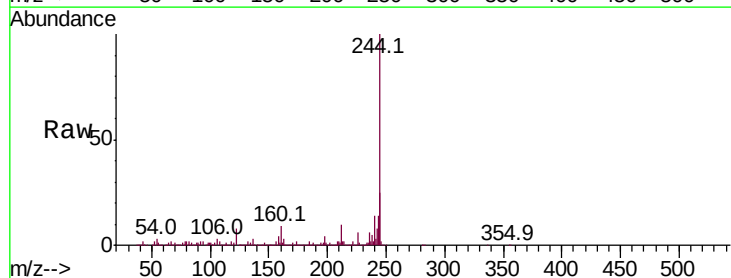
Instrument :
 BNA_G
 ClientSampleId :

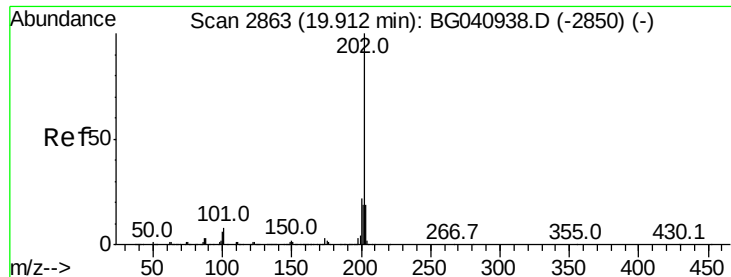
Tot Ion	Ratio	Lower	Upper
240	100		
120	4.9	4.5	6.7
236	26.6	21.3	31.9



#77
 Benzidine
 Concen: 3.156 ng
 RT: 20.09 min Scan# 2894
 Delta R.T. 0.36 min
 Lab File: BG040966.D
 Acq: 31 May 2019 1:15

Tgt Ion	Ratio	Lower	Upper
184	100		
185	16.3	13.3	19.9
183	6.7	10.7	16.1#





#78

Pvrene

Concen: 3.909 ng

RT: 19.90 min Scan# 2862

Delta R.T. -0.01 min

Lab File: BG040966.D

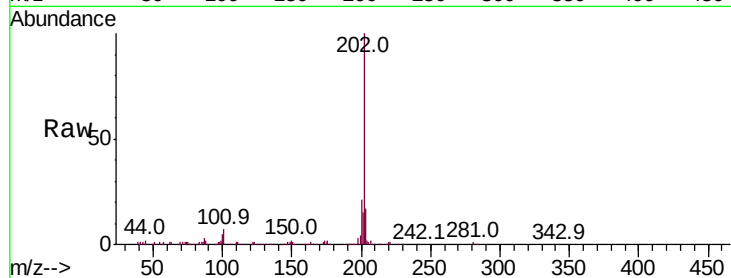
Acq: 31 May 2019 1:15

Instrument :

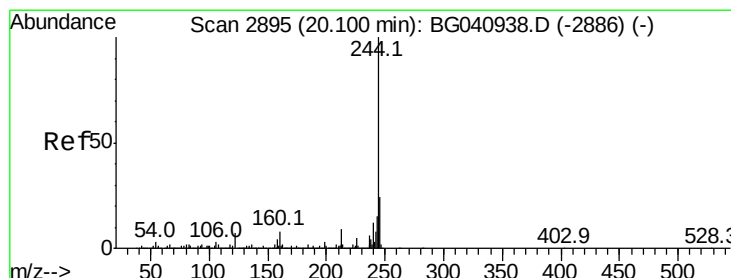
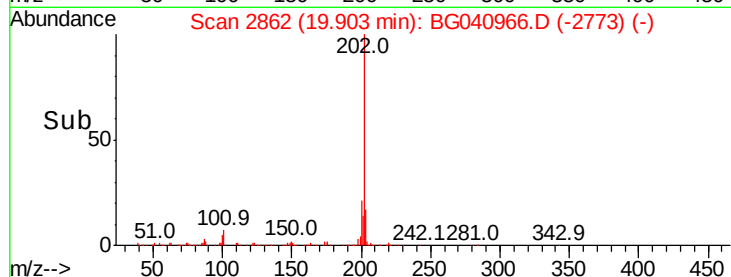
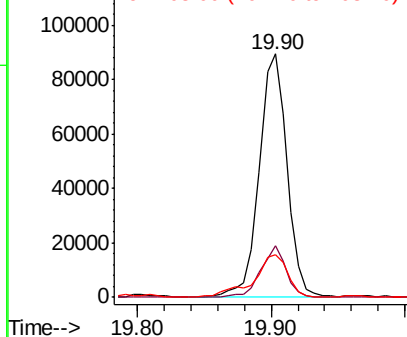
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	128907
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.5	26.3
203	17.4	15.6	23.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 82.526 ng

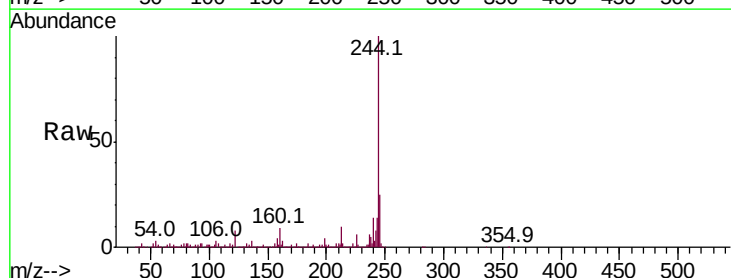
RT: 20.09 min Scan# 2894

Delta R.T. -0.01 min

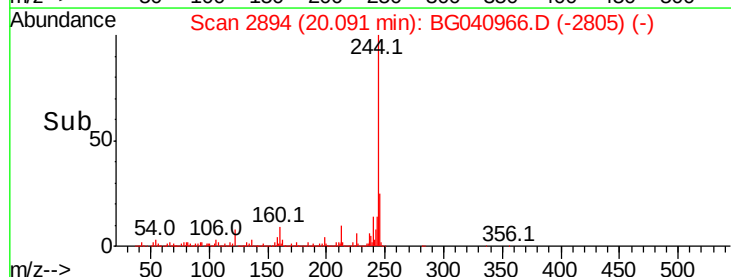
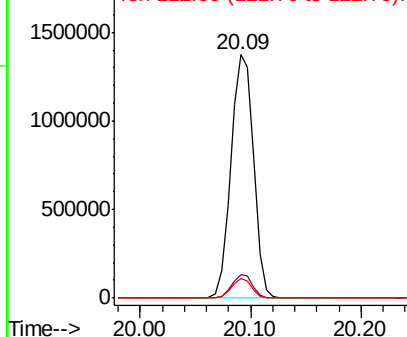
Lab File: BG040966.D

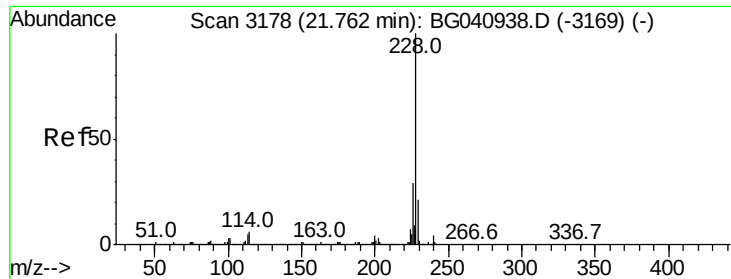
Acq: 31 May 2019 1:15

Tgt Ion:	244	Resp:	1972705
Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.0	10.4
122	8.2	5.4	8.0#



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

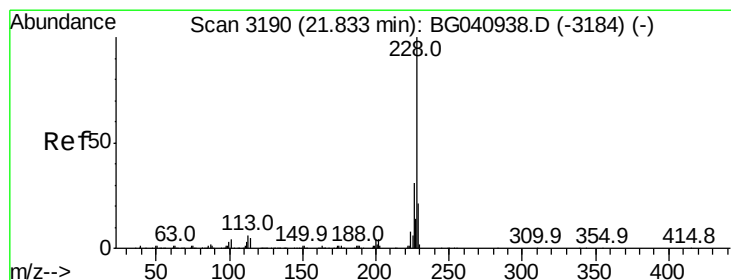
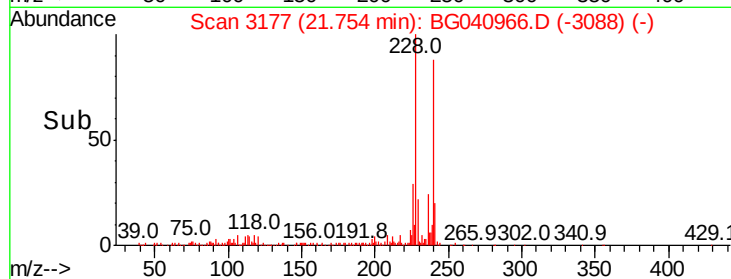
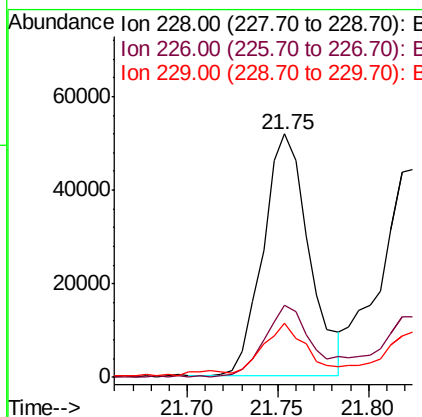
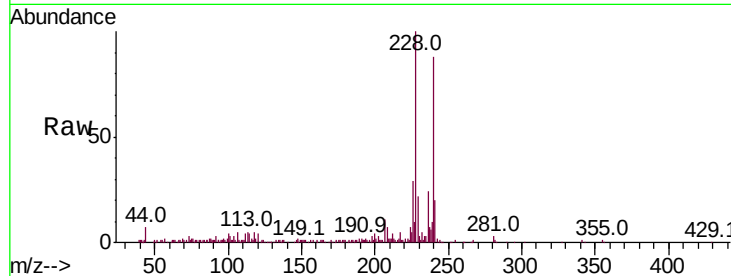




#81
Benzo(a)anthracene
Concen: 2.711 ng
RT: 21.75 min Scan# 3177
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

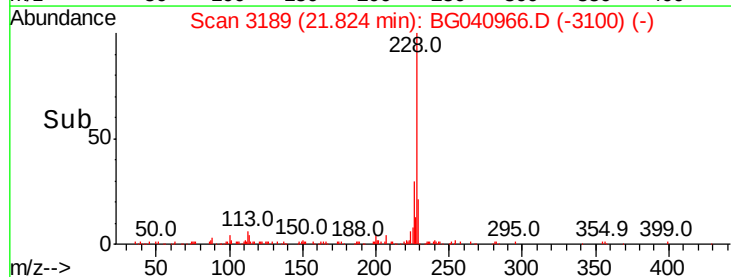
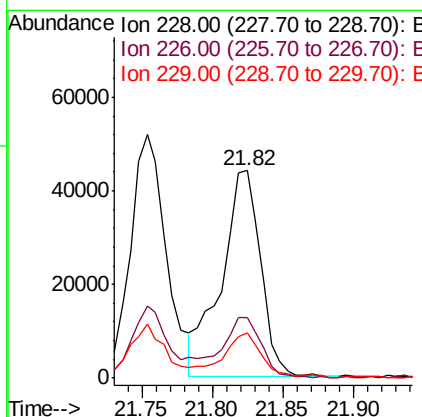
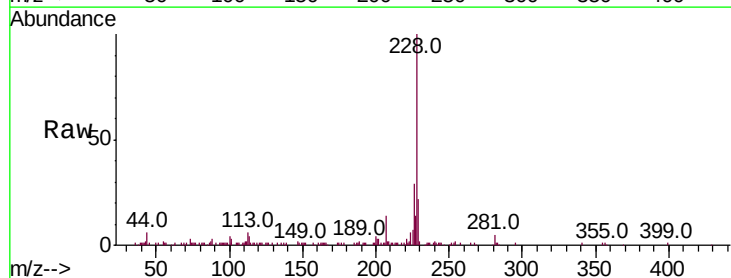
Instrument :
BNA_G
ClientSampleId :

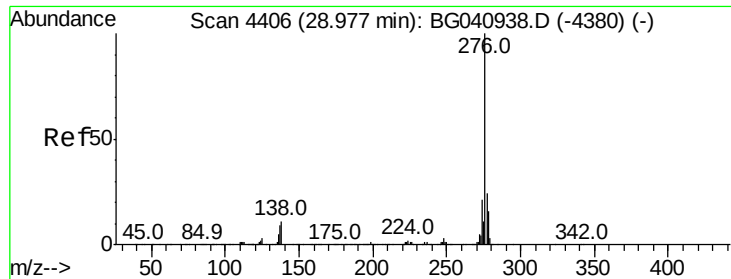
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.5	35.3
229	22.1	16.7	25.1



#83
Chrysene
Concen: 2.648 ng
RT: 21.82 min Scan# 3189
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.6	37.0
229	21.6	16.6	24.8

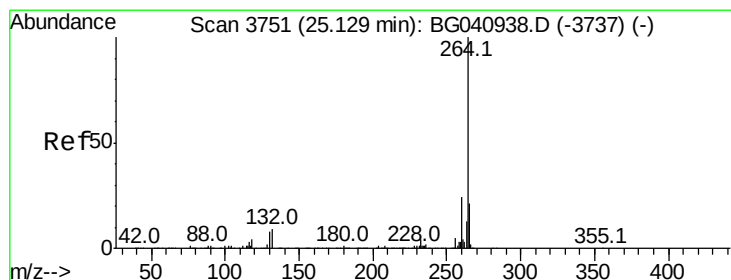
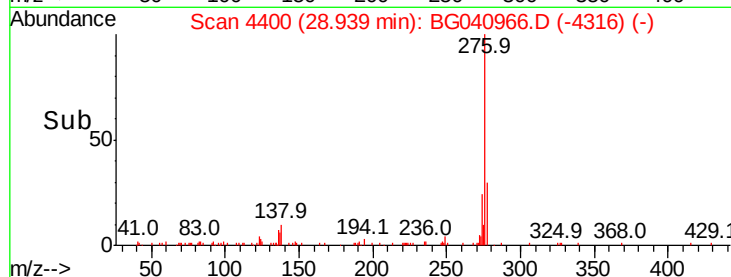
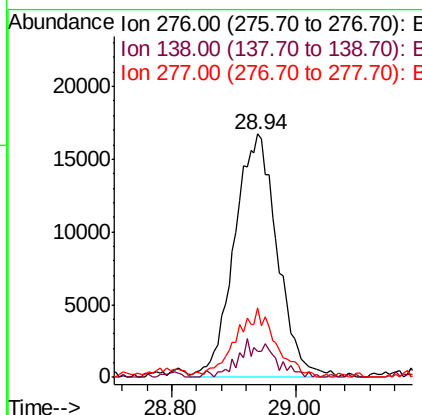
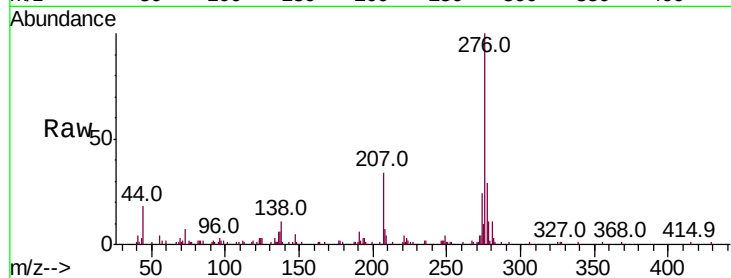




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.035 ng
 RT: 28.94 min Scan# 4400
 Delta R.T. -0.04 min
 Lab File: BG040966.D
 Acq: 31 May 2019 1:15

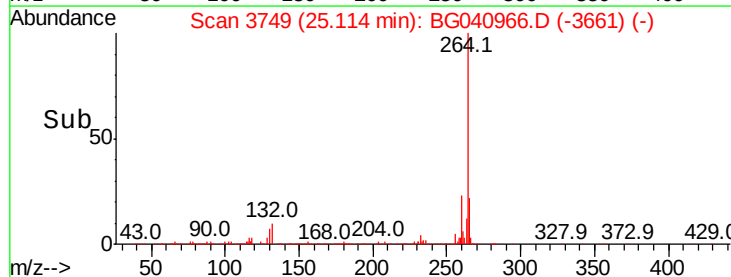
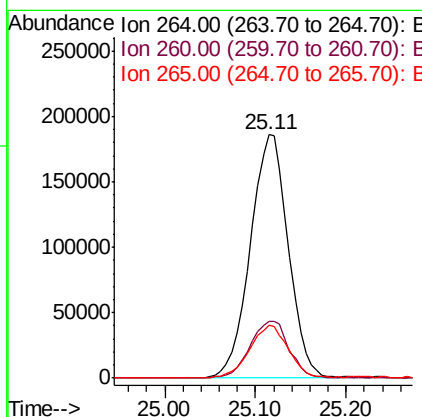
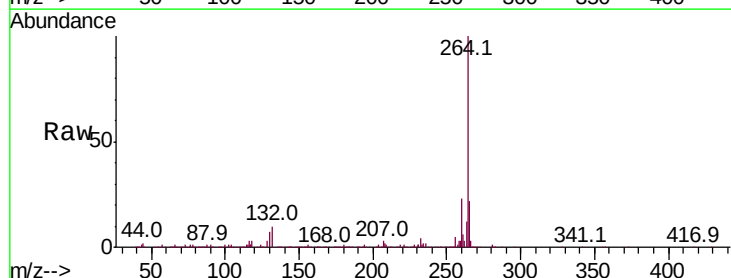
Instrument :
 BNA_G
 ClientSampled :

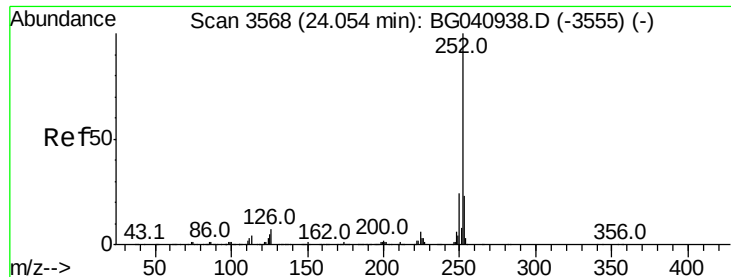
Tot Ion	Ratio	Lower	Upper
276	100		
138	6.3	5.7	8.5
277	26.3	20.8	31.2



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.11 min Scan# 3749
 Delta R.T. -0.01 min
 Lab File: BG040966.D
 Acq: 31 May 2019 1:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.0	28.4
265	21.8	17.0	25.4

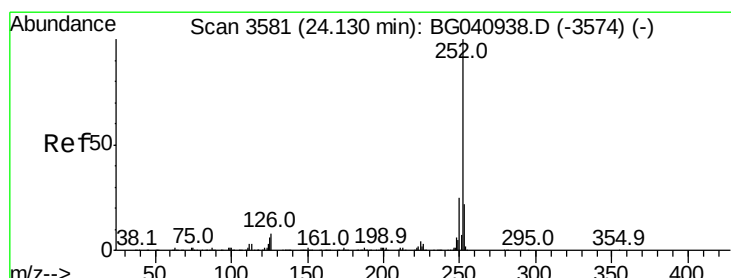
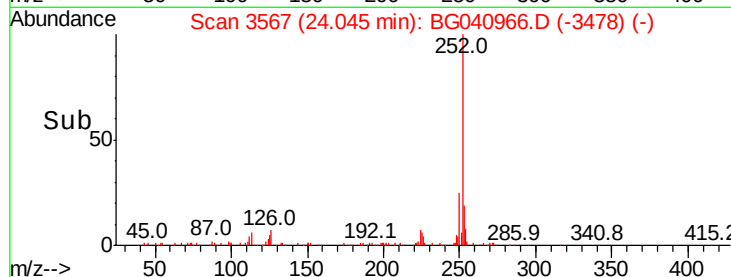
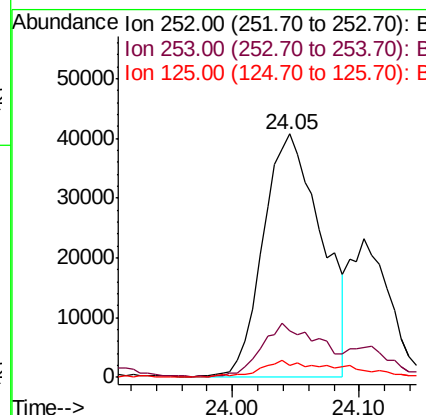
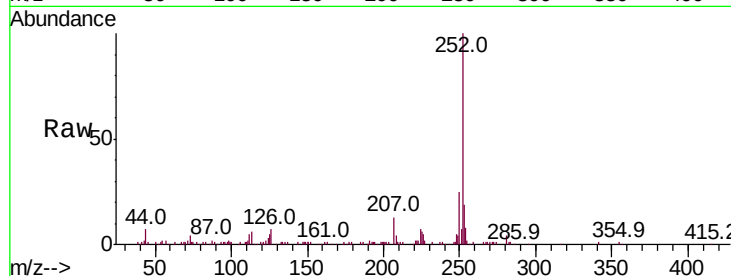




#88
Benzo(b)fluoranthene
Concen: 4.007 ng
RT: 24.05 min Scan# 3567
Delta R.T. -0.01 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

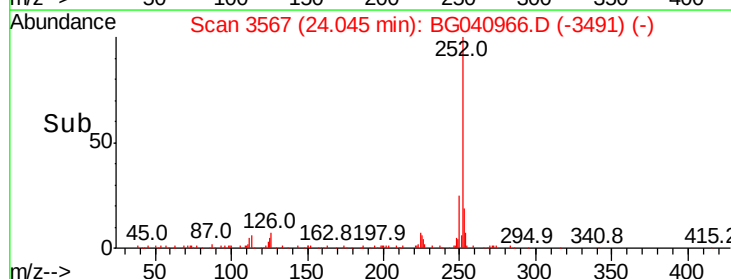
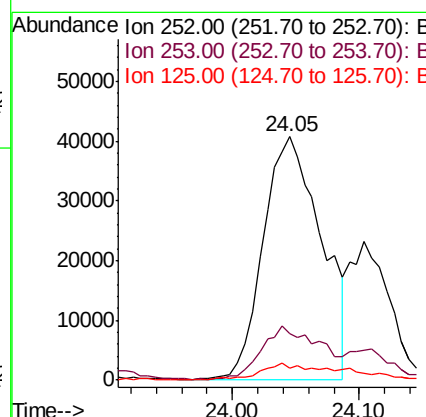
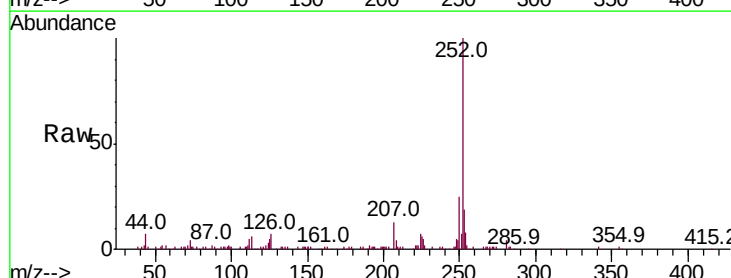
Instrument :
BNA_G
ClientSampled :

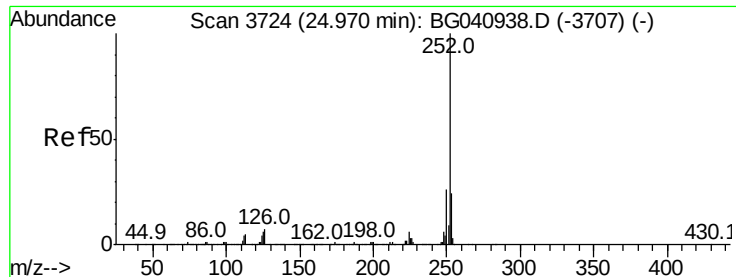
Tot Ion:252 Resp: 130541
Ion Ratio Lower Upper
252 100
253 19.2 18.4 27.6
125 5.1 4.3 6.5



#89
Benzo(k)fluoranthene
Concen: 4.049 ng
RT: 24.05 min Scan# 3567
Delta R.T. -0.09 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion:252 Resp: 130541
Ion Ratio Lower Upper
252 100
253 19.2 17.8 26.6
125 5.1 4.7 7.1

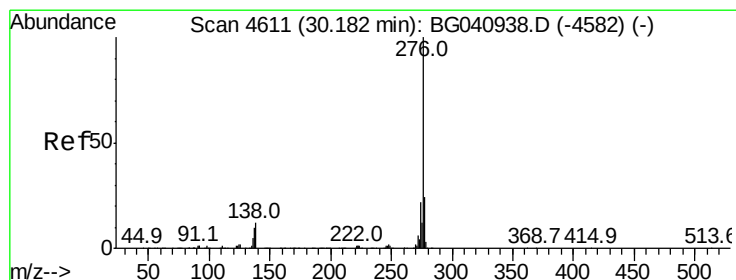
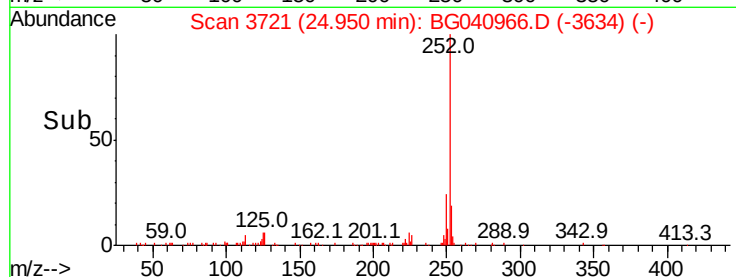
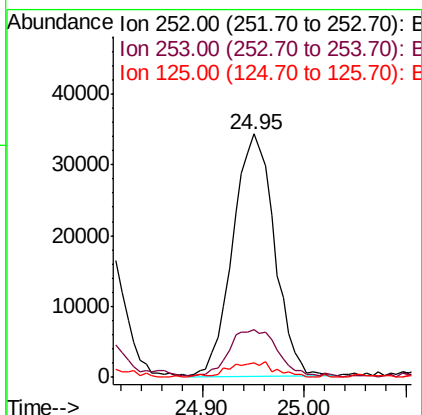
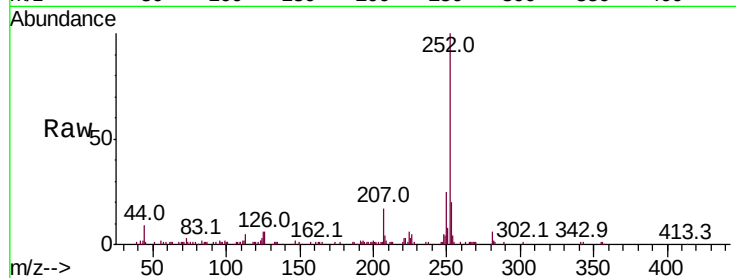




#90
Benzo(a)pyrene
Concen: 3.141 ng
RT: 24.95 min Scan# 3721
Delta R.T. -0.02 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	19.8	19.5	29.3
125	6.2	5.1	7.7



#92
Benzo(g,h,i)perylene
Concen: 2.657 ng
RT: 30.14 min Scan# 4604
Delta R.T. -0.04 min
Lab File: BG040966.D
Acq: 31 May 2019 1:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.7	19.4	29.0
138	11.6	9.7	14.5

