

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042221\
 Data File : BG048847.D
 Acq On : 22 Apr 2021 15:02
 Operator : CG/JU
 Sample : M2099-07
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-4

Quant Time: Apr 22 15:48:16 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041421.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 20 17:33:30 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

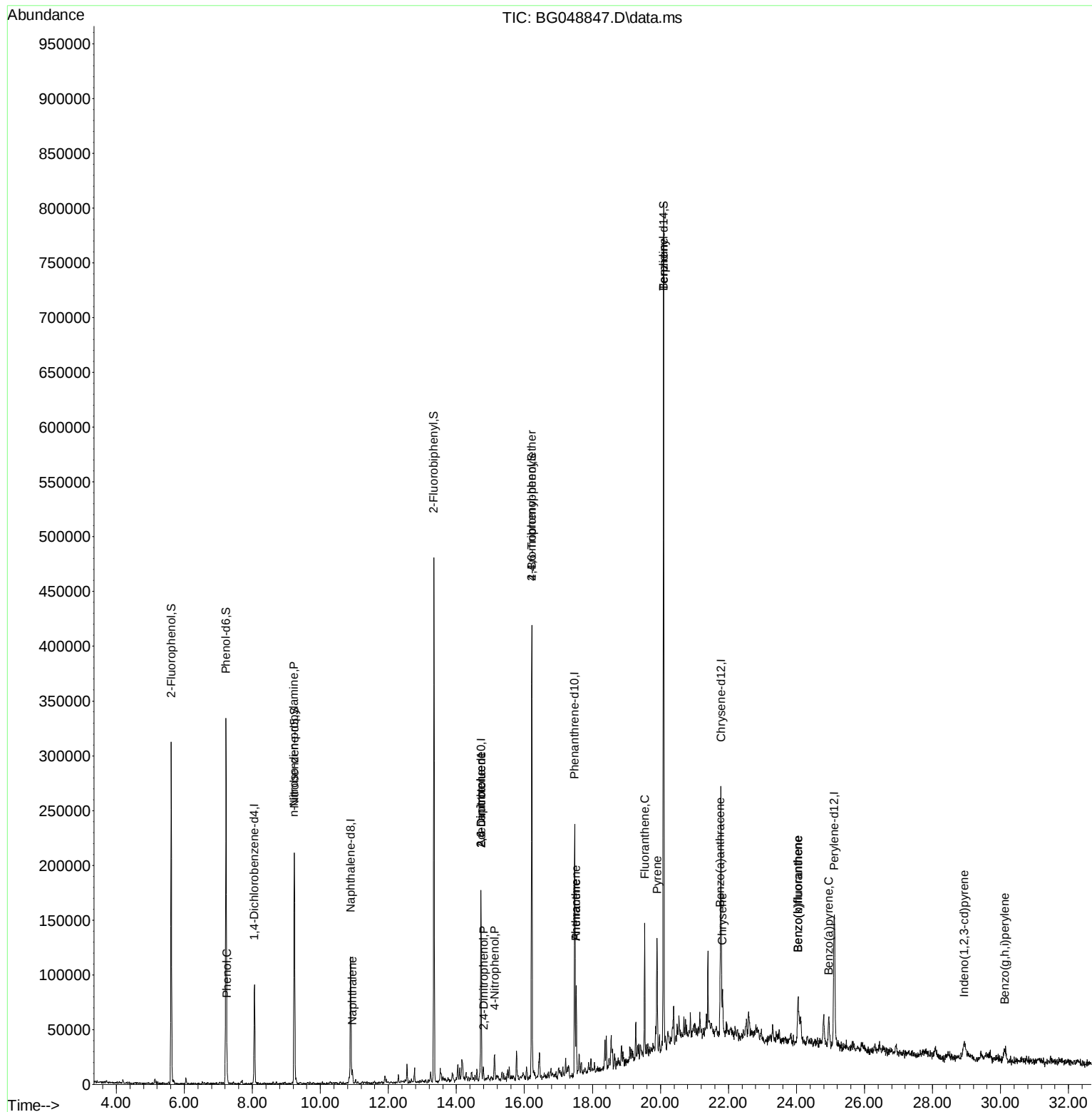
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.061	152	21726	20.00	ng	0.00
21) Naphthalene-d8	10.887	136	91859	20.00	ng	0.00
39) Acenaphthene-d10	14.724	164	60951	20.00	ng	0.00
64) Phenanthrene-d10	17.479	188	136318	20.00	ng	# 0.00
76) Chrysene-d12	21.780	240	127044	20.00	ng	0.00
86) Perylene-d12	25.112	264	127725	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.611	112	123919	95.40	ng	0.00
7) Phenol-d6	7.227	99	162041	88.19	ng	0.00
23) Nitrobenzene-d5	9.236	82	123870	60.37	ng	0.00
42) 2,4,6-Tribromophenol	16.216	330	66087	80.87	ng	0.00
45) 2-Fluorobiphenyl	13.337	172	232430	55.07	ng	0.00
79) Terphenyl-d14	20.094	244	343029	46.47	ng	0.00
Target Compounds						
						Qvalue
10) Phenol	7.250	94	4227	2.34	ng	87
19) n-Nitroso-di-n-propyla...	9.230	70	20542	16.57	ng	# 72
31) Naphthalene	10.940	128	9511	2.02	ng	# 93
51) 2,6-Dinitrotoluene	14.724	165	8778	8.32	ng	# 13
54) 2,4-Dinitrophenol	14.806	184	56	5.36	ng	# 20
56) 4-Nitrophenol	15.123	139	4669	6.22	ng	# 1
57) 2,4-Dinitrotoluene	14.724	165	8778	5.73	ng	# 19
67) 4-Bromophenyl-phenylether	16.216	248	4615	2.94	ng	# 1
71) Phenanthrene	17.520	178	49281	6.97	ng	96
72) Anthracene	17.520	178	49281	7.04	ng	99
75) Fluoranthene	19.536	202	68562	7.66	ng	97
77) Benzidine	20.094	184	7206	2.09	ng	# 94
78) Pyrene	19.900	202	63821	7.26	ng	98
81) Benzo(a)anthracene	21.757	228	30358	3.50	ng	# 89
83) Chrysene	21.827	228	37887	4.58	ng	# 95
87) Indeno(1,2,3-cd)pyrene	28.937	276	21154	2.26	ng	# 81
88) Benzo(b)fluoranthene	24.048	252	54388	6.28	ng	# 97
89) Benzo(k)fluoranthene	24.048	252	54388	6.67	ng	# 93
90) Benzo(a)pyrene	24.941	252	26847	3.36	ng	# 92
92) Benzo(g,h,i)perylene	30.129	276	21097	2.66	ng	# 89

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

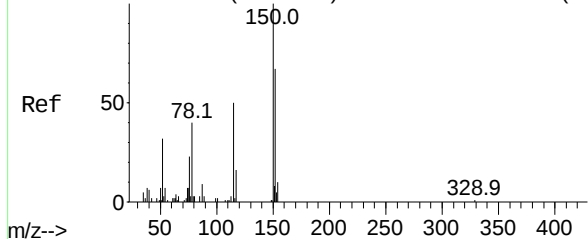
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042221\
Data File : BG048847.D
Acq On : 22 Apr 2021 15:02
Operator : CG/JU
Sample : M2099-07
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
TP-4

Quant Time: Apr 22 15:48:16 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG041421.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration



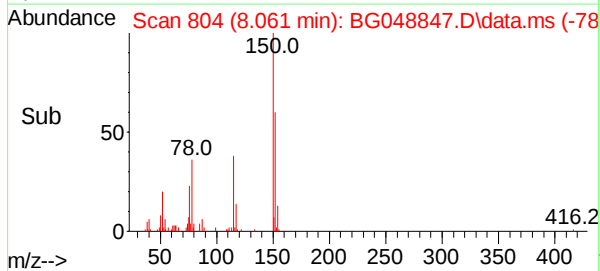
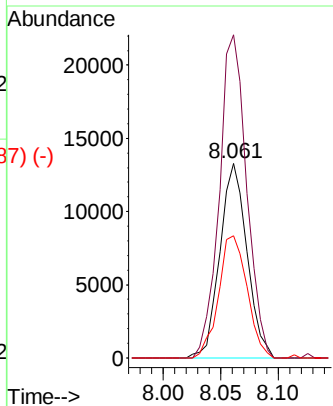
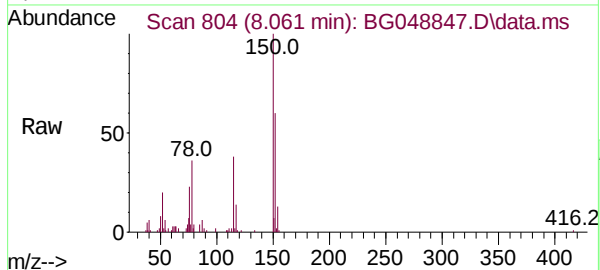
Abundance Scan 807 (8.079 min): BG048693.D\data.ms (-800)#1



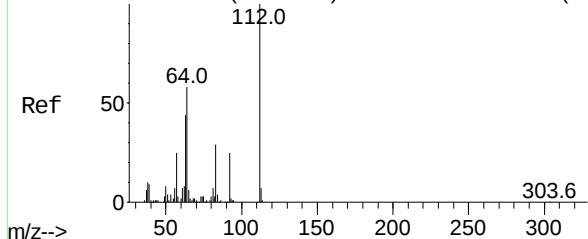
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.061 min Scan# 804
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

Tgt Ion:	152	Resp:	21726
Ion	Ratio	Lower	Upper
152	100		
150	166.0	119.4	179.0
115	62.6	60.2	90.4

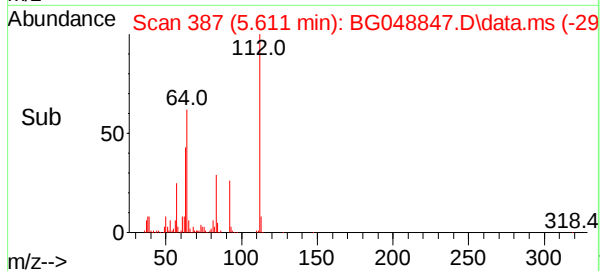
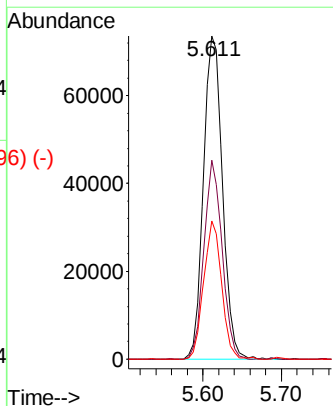
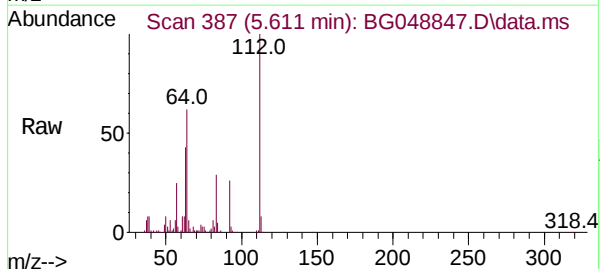


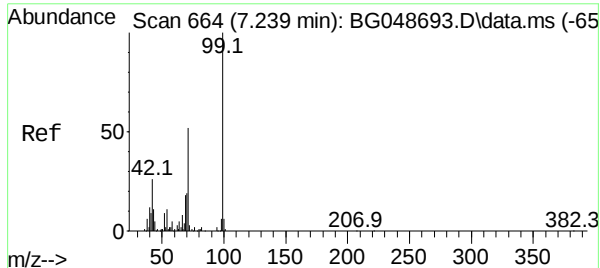
Abundance Scan 390 (5.629 min): BG048693.D\data.ms (-383)#5



2-Fluorophenol
Concen: 95.40 ng
RT: 5.611 min Scan# 387
Delta R.T. 0.006 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Tgt Ion:	112	Resp:	123919
Ion	Ratio	Lower	Upper
112	100		
64	61.5	46.7	70.1
63	42.8	35.3	52.9

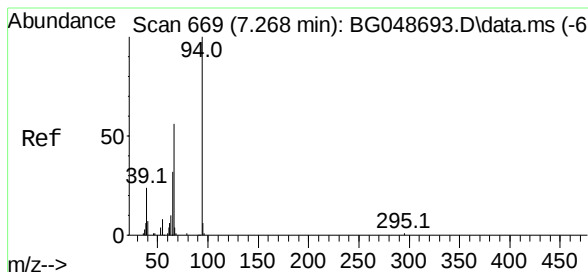
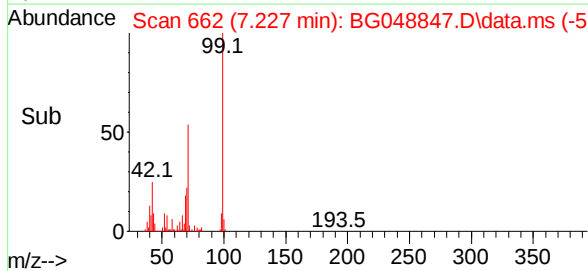
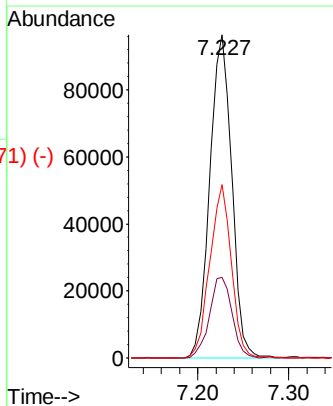
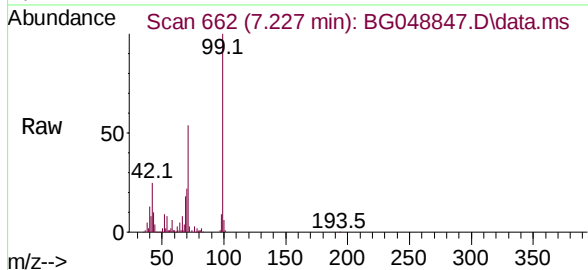




Phenol-d6
 Concen: 88.19 ng
 RT: 7.227 min Scan# 662
 Delta R.T. 0.006 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

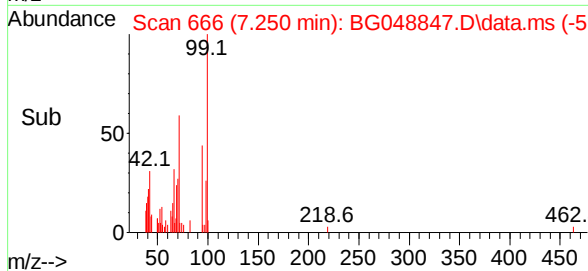
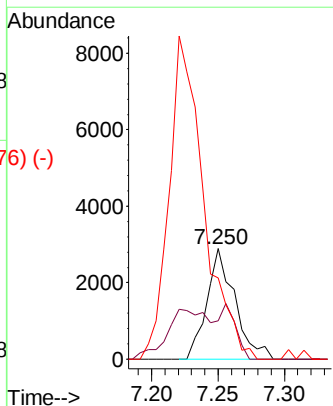
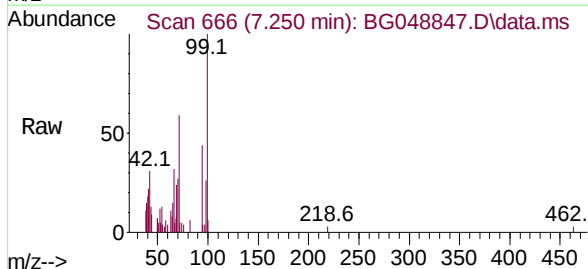
Instrument :
 BNA_G
 ClientSampled :
 TP-4

Tgt Ion:	99	Resp:	162041
Ion	Ratio	Lower	Upper
99	100		
42	25.0	20.5	30.7
71	53.6	41.5	62.3

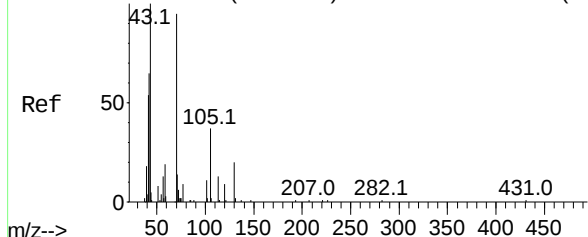


Phenol
 Concen: 2.34 ng
 RT: 7.250 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

Tgt Ion:	94	Resp:	4227
Ion	Ratio	Lower	Upper
94	100		
65	34.5	12.9	52.9
66	73.7	39.4	79.4



Abundance Scan 945 (8.890 min): BG048693.D\data.ms (-937) (-)

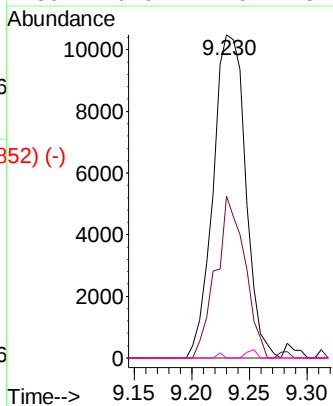
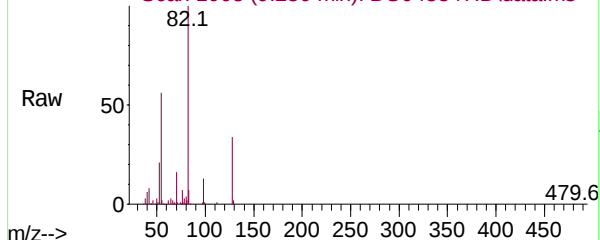


n-Nitroso-di-n-propylamine
Concen: 16.57 ng
RT: 9.230 min Scan# 1003
Delta R.T. 0.358 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

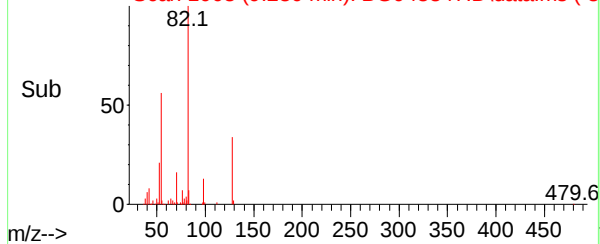
Instrument :
BNA_G
ClientSampled :
TP-4

Tgt Ion	Ratio	Lower	Upper
70	100		
42	50.0	54.5	81.7#
101	0.0	9.0	13.6#
130	0.0	17.0	25.6#

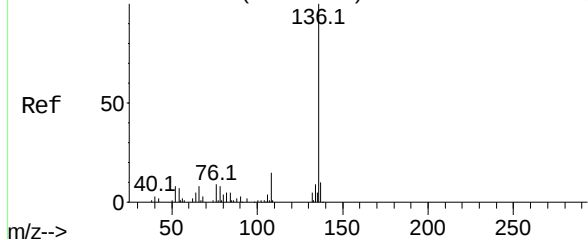
Abundance Scan 1003 (9.230 min): BG048847.D\data.ms



Abundance Scan 1003 (9.230 min): BG048847.D\data.ms (-852) (-)



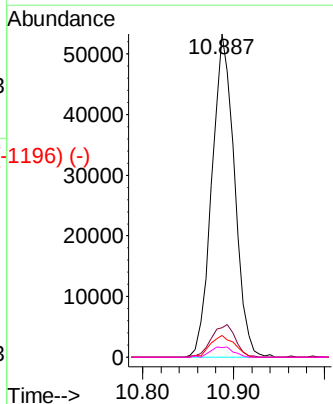
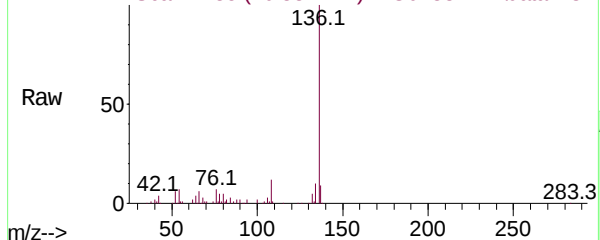
Abundance Scan 1289 (10.911 min): BG048693.D\data.ms (-1281) (-)



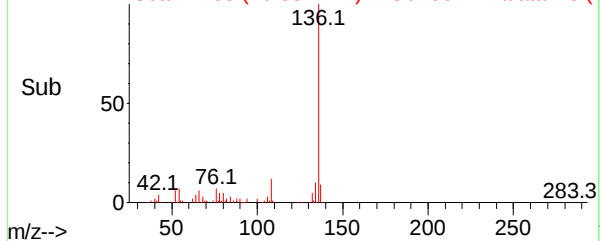
Naphthalene-d8
Concen: 20.00 ng
RT: 10.887 min Scan# 1285
Delta R.T. -0.006 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

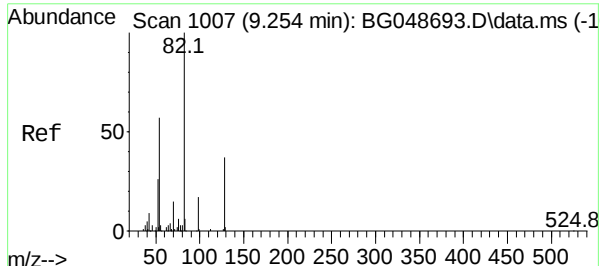
Tgt Ion	Ratio	Lower	Upper
136	100		
137	9.0	8.2	12.2
54	6.8	5.5	8.3
68	2.9	2.3	3.5

Abundance Scan 1285 (10.887 min): BG048847.D\data.ms



Abundance Scan 1285 (10.887 min): BG048847.D\data.ms (-1196) (-)

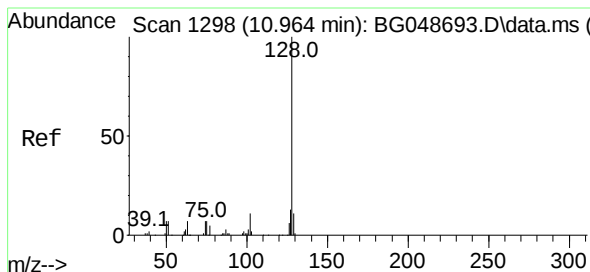
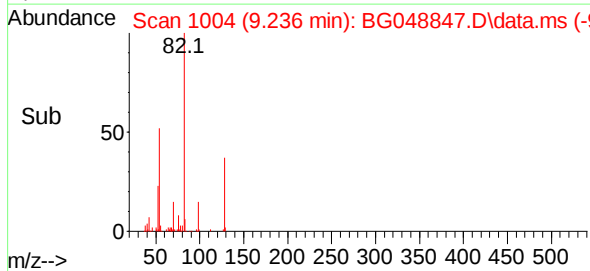
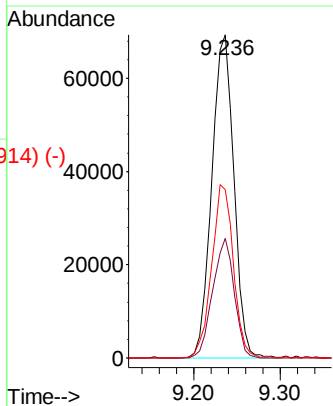
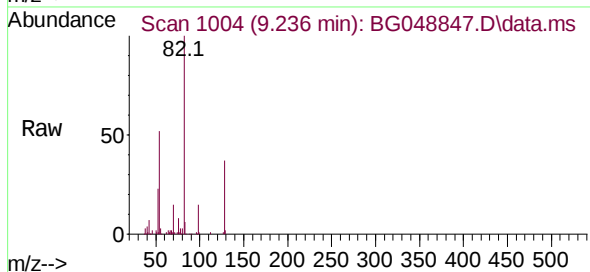




Nitrobenzene-d5
 Concen: 60.37 ng
 RT: 9.236 min Scan# 1004
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

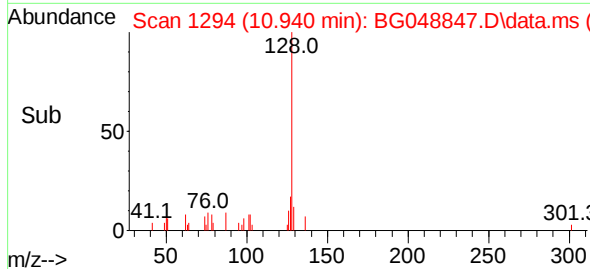
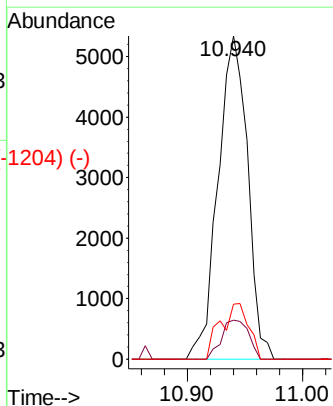
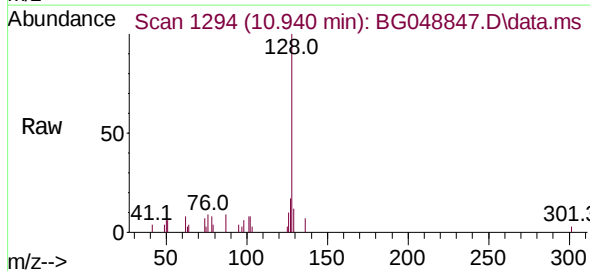
Instrument :
 BNA_G
 ClientSampled :
 TP-4

Tgt Ion:	82	Resp:	123870
Ion	Ratio	Lower	Upper
82	100		
128	36.9	29.8	44.6
54	52.0	45.8	68.8



Naphthalene
 Concen: 2.02 ng
 RT: 10.940 min Scan# 1294
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

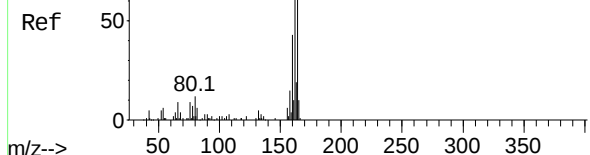
Tgt Ion:	128	Resp:	9511
Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.5	12.7
127	16.9	10.2	15.4#



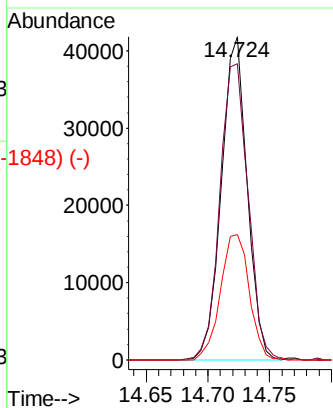
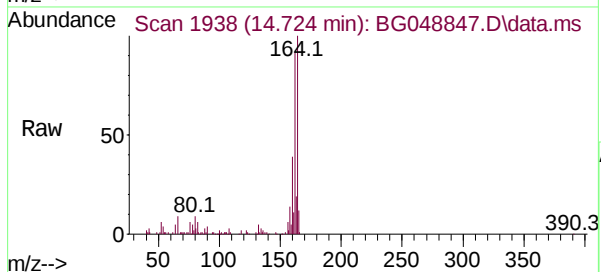
Abundance Scan 1940 (14.736 min): BG048693.D\data.ms (-1939) (-)

Acenaphthene-d10
Concen: 20.00 ng
RT: 14.724 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

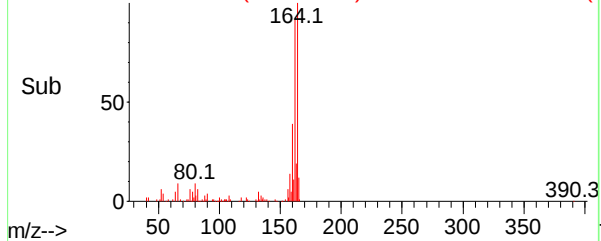
Instrument :
BNA_G
ClientSampled :
TP-4



Tgt Ion:	164	Resp:	60951
Ion Ratio	Lower	Upper	
164	100		
162	91.7	81.4	122.0
160	38.7	34.9	52.3

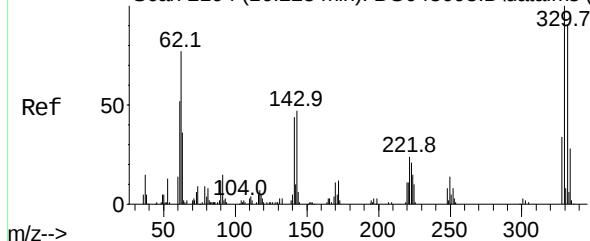


Abundance Scan 1938 (14.724 min): BG048847.D\data.ms (-1848) (-)

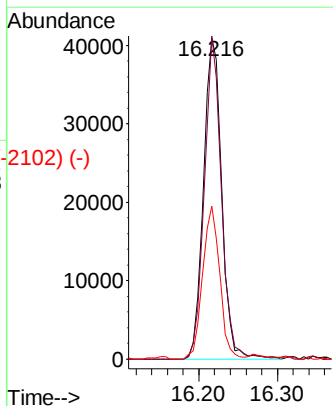
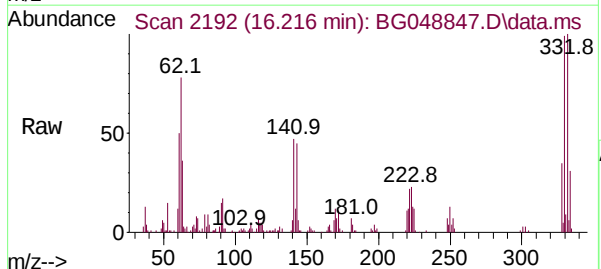


Abundance Scan 2194 (16.228 min): BG048693.D\data.ms (-2192) (-)

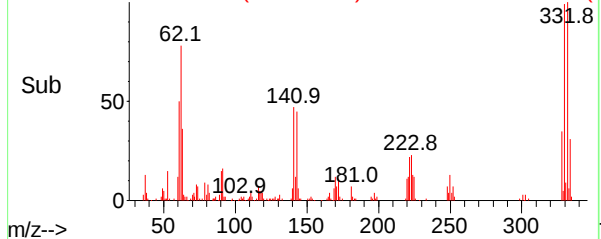
2,4,6-Tribromophenol
Concen: 80.87 ng
RT: 16.216 min Scan# 2192
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02



Tgt Ion:	330	Resp:	66087
Ion Ratio	Lower	Upper	
330	100		
332	94.4	77.3	115.9
141	44.7	35.6	53.4



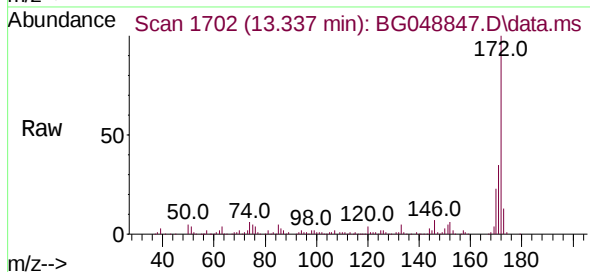
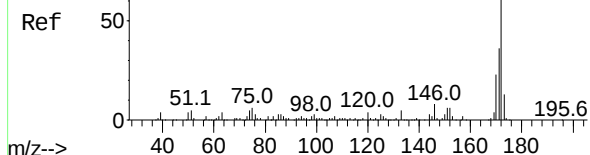
Abundance Scan 2192 (16.216 min): BG048847.D\data.ms (-2102) (-)



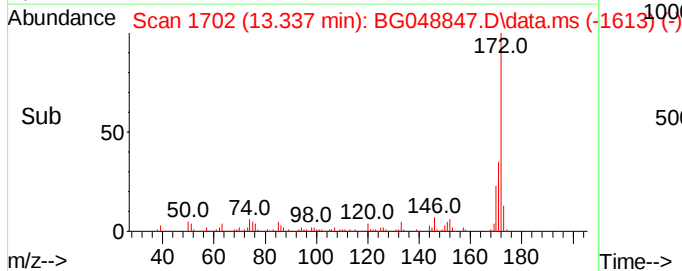
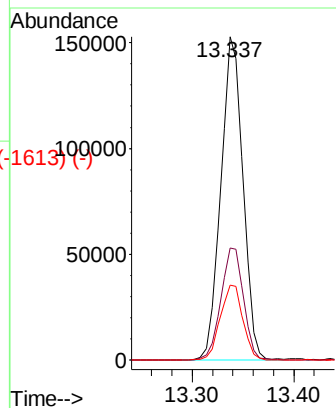
Abundance Scan 1705 (13.355 min): BG048693.D\data.ms (-1615) (-)

2-Fluorobiphenyl
Concen: 55.07 ng
RT: 13.337 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

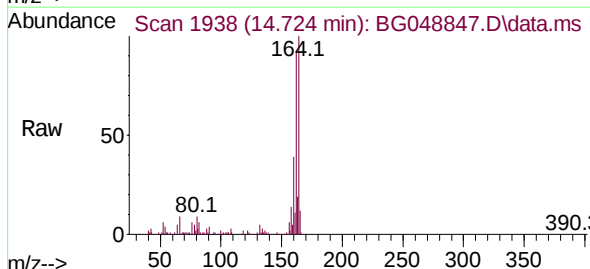
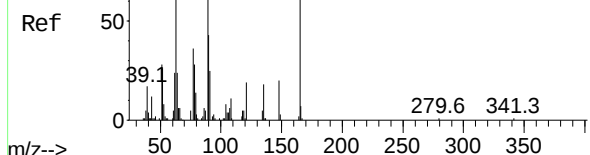


Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	23.2	18.6	27.8

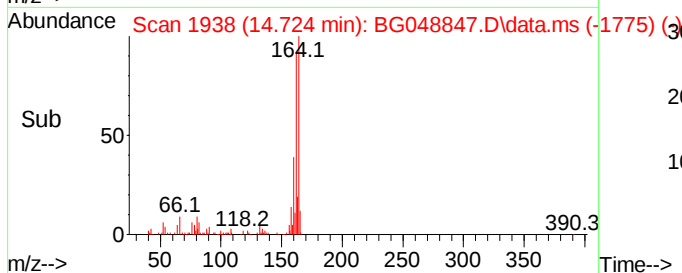
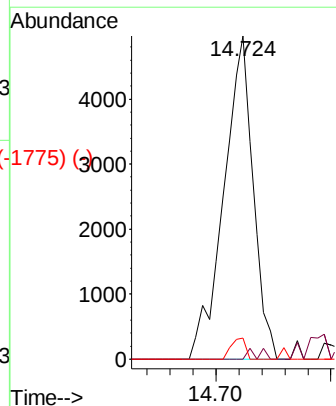


Abundance Scan 1867 (14.307 min): BG048693.D\data.ms (-1650) (-)

2,6-Dinitrotoluene
Concen: 8.32 ng
RT: 14.724 min Scan# 1938
Delta R.T. 0.429 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02



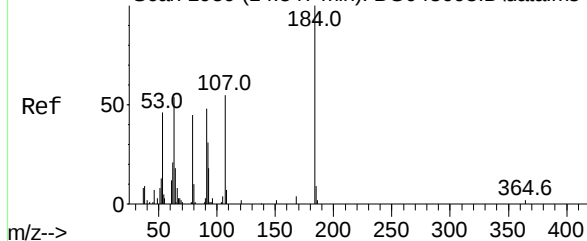
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	63.3	94.9#
89	6.5	63.4	95.0#



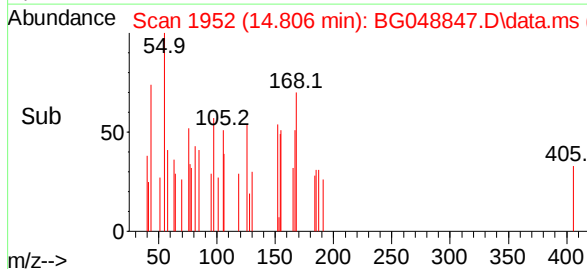
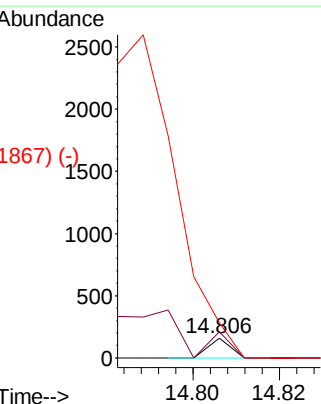
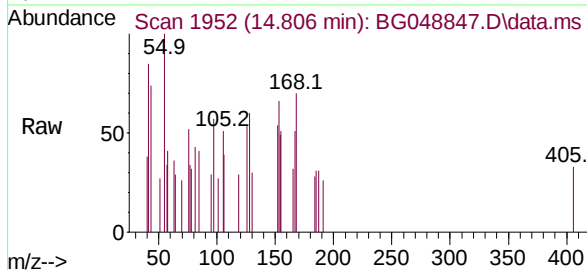
Abundance Scan 1959 (14.847 min): BG048693.D\data.ms (-1959) (-)

2,4-Dinitrophenol
Concen: 5.36 ng
RT: 14.806 min Scan# 1952
Delta R.T. -0.030 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

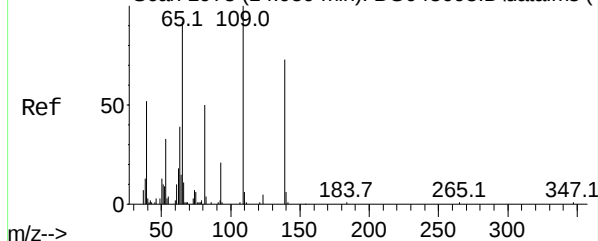


Tgt Ion:	184	Resp:	56
Ion	Ratio	Lower	Upper
184	100		
63	130.0	68.3	102.5#
154	177.5	62.6	93.8#

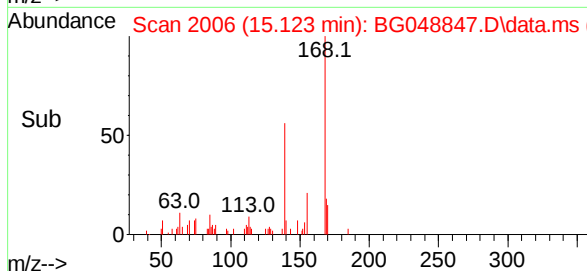
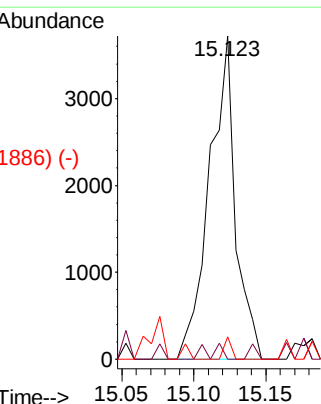
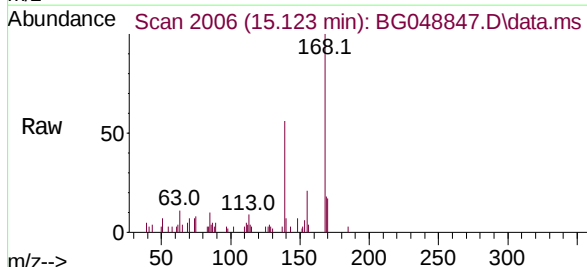


Abundance Scan 1978 (14.959 min): BG048693.D\data.ms (-1978) (-)

4-Nitrophenol
Concen: 6.22 ng
RT: 15.123 min Scan# 2006
Delta R.T. 0.176 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02



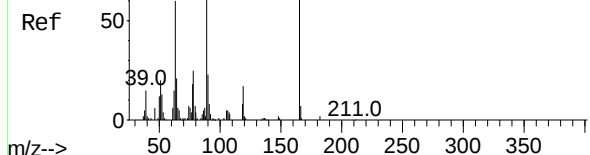
Tgt Ion:	139	Resp:	4669
Ion	Ratio	Lower	Upper
139	100		
109	0.0	116.3	156.3#
65	6.8	105.0	145.0#



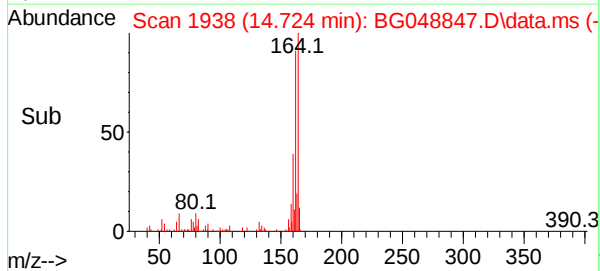
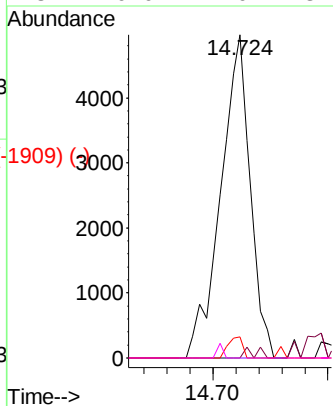
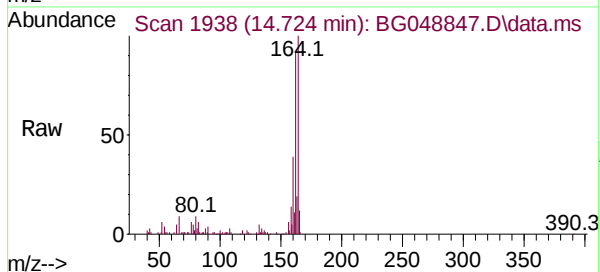
Abundance Scan 2002 (15.100 min): BG048693.D\data.ms (-1955) (-)

2,4-Dinitrotoluene
Concen: 5.73 ng
RT: 14.724 min Scan# 1938
Delta R.T. -0.359 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

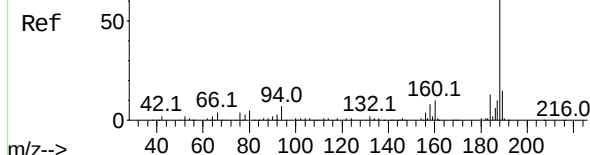


Tgt Ion:	165	Resp:	8778
Ion	Ratio	Lower	Upper
165	100		
63	0.0	48.0	72.0#
89	6.5	65.4	98.0#
182	0.0	2.0	3.0#

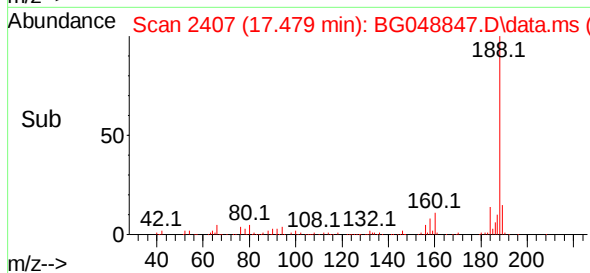
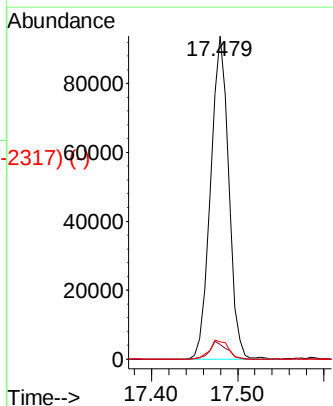
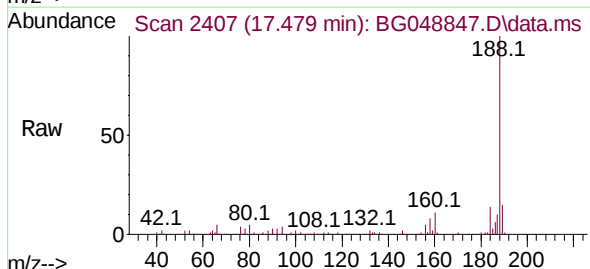


Abundance Scan 2410 (17.497 min): BG048693.D\data.ms (-2462) (-)

Phenanthrene-d10
Concen: 20.00 ng
RT: 17.479 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02



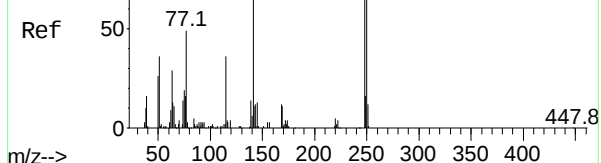
Tgt Ion:	188	Resp:	136318
Ion	Ratio	Lower	Upper
188	100		
94	4.5	5.4	8.0#
80	5.3	3.7	5.5



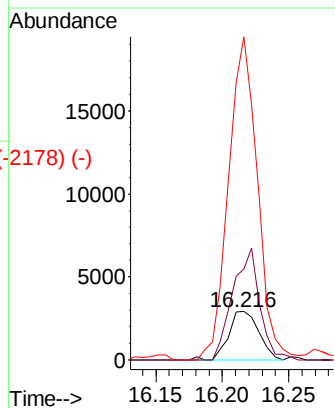
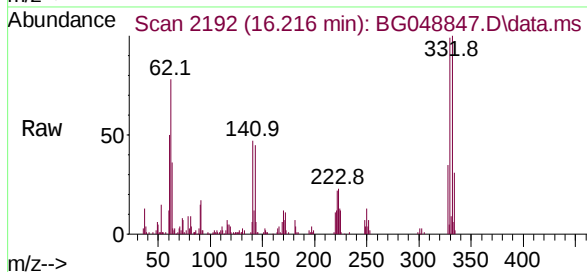
Abundance Scan 2270 (16.674 min): BG048693.D\data.ms (-263) (-)

4-Bromophenyl-phenylether
Concen: 2.94 ng
RT: 16.216 min Scan# 2192
Delta R.T. -0.447 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

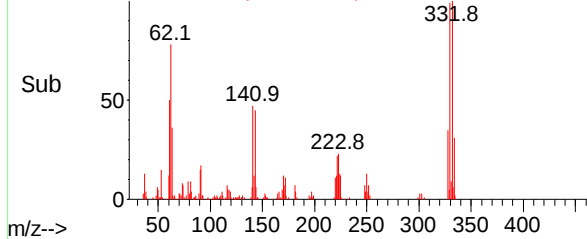
Instrument :
BNA_G
ClientSampled :
TP-4



Tgt Ion:	248	Resp:	4615
Ion	Ratio	Lower	Upper
248	100		
250	122.8	76.1	114.1#
141	436.2	65.4	98.2#



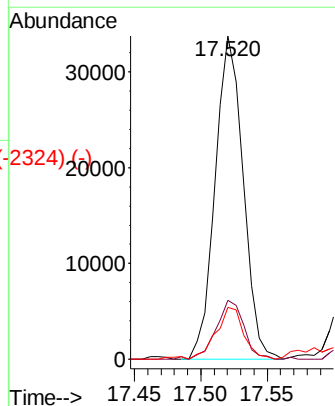
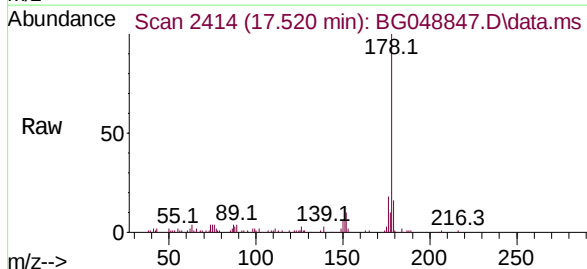
Abundance Scan 2192 (16.216 min): BG048847.D\data.ms (-2178) (-)



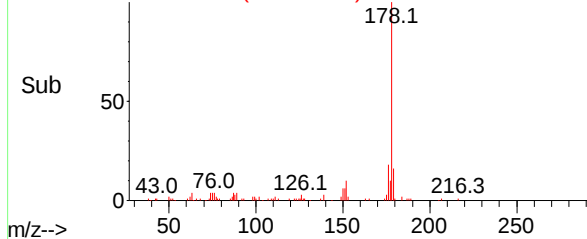
Abundance Scan 2417 (17.538 min): BG048693.D\data.ms (-2479) (-)

Phenanthrene
Concen: 6.97 ng
RT: 17.520 min Scan# 2414
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

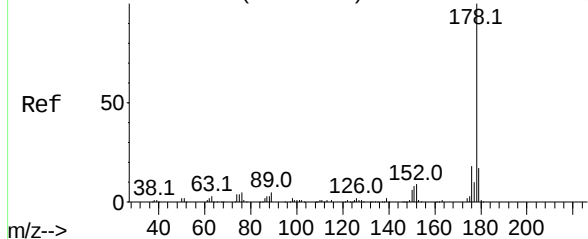
Tgt Ion:	178	Resp:	49281
Ion	Ratio	Lower	Upper
178	100		
176	18.2	16.0	24.0
179	15.9	14.2	21.4



Abundance Scan 2414 (17.520 min): BG048847.D\data.ms (-2324) (-)



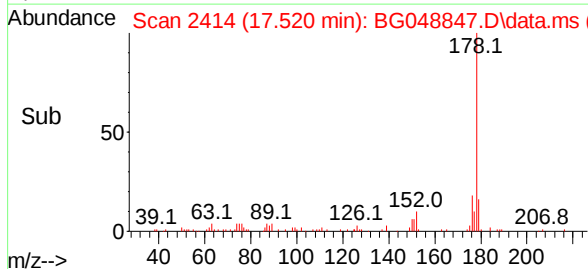
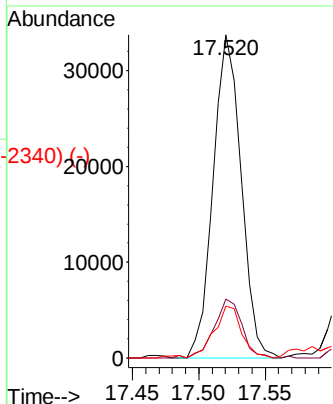
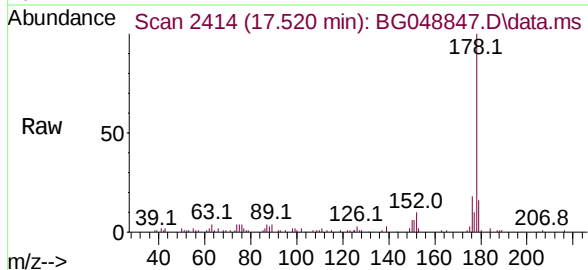
Abundance Scan 2432 (17.626 min): BG048693.D\data.ms (-2475) (-)



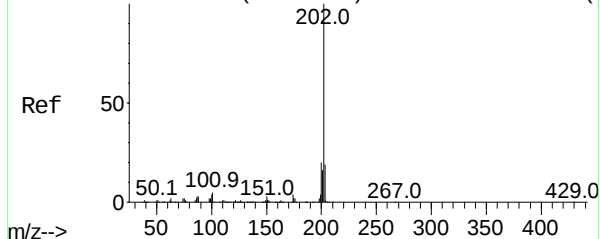
Anthracene
Concen: 7.04 ng
RT: 17.520 min Scan# 2414
Delta R.T. -0.094 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

Tgt Ion:	178	Resp:	49281
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.6	21.8
179	15.9	13.4	20.0

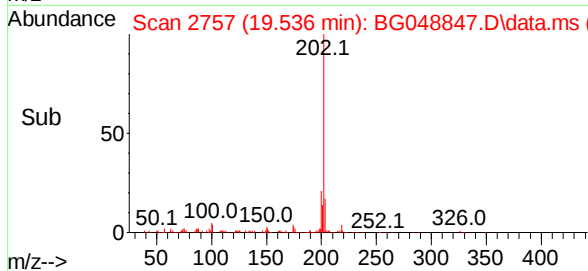
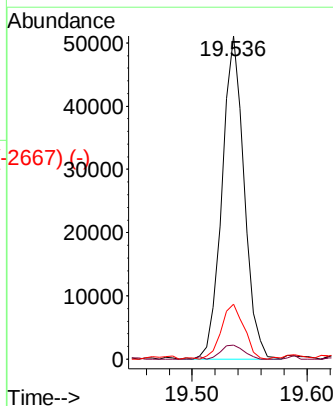
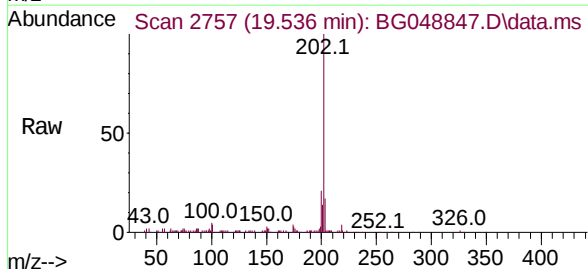


Abundance Scan 2759 (19.548 min): BG048693.D\data.ms (-2775) (-)

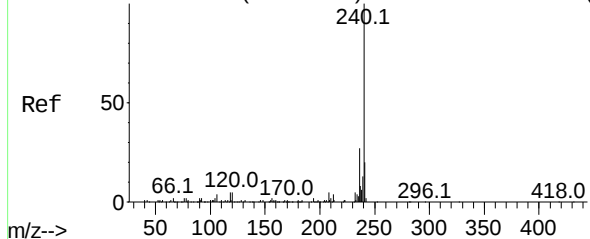


Fluoranthene
Concen: 7.66 ng
RT: 19.536 min Scan# 2757
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Tgt Ion:	202	Resp:	68562
Ion Ratio	Lower	Upper	
202	100		
101	4.3	0.0	24.7
203	17.1	0.0	38.5



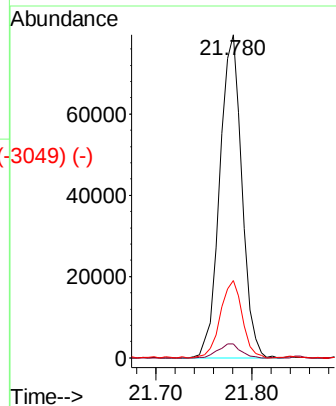
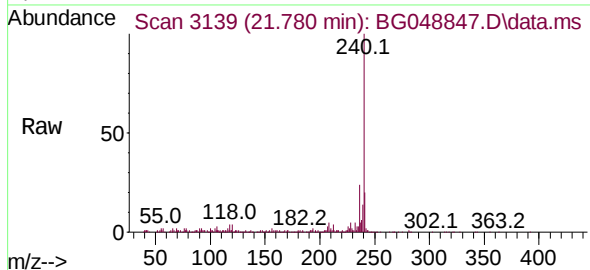
Abundance Scan 3142 (21.798 min): BG048693.D\data.ms (-3174) (-)



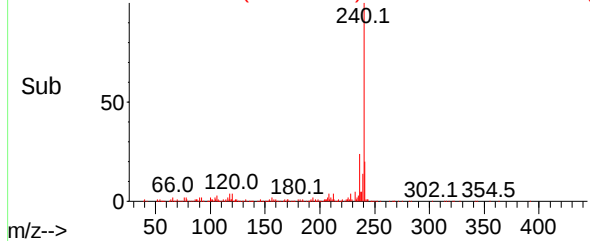
Chrysene-d12
Concen: 20.00 ng
RT: 21.780 min Scan# 3139
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

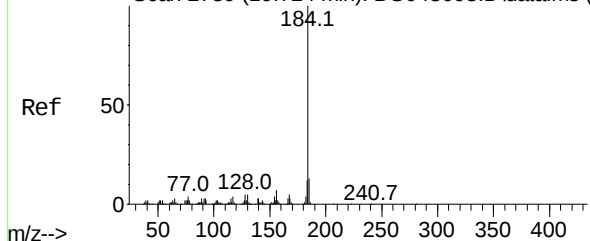
Tgt Ion:	240	Resp:	127044
Ion	Ratio	Lower	Upper
240	100		
120	4.3	4.2	6.2
236	23.9	21.8	32.6



Abundance Scan 3139 (21.780 min): BG048847.D\data.ms (-3049) (-)

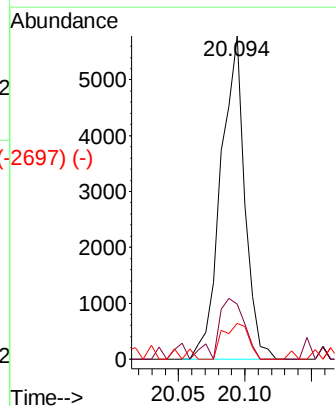
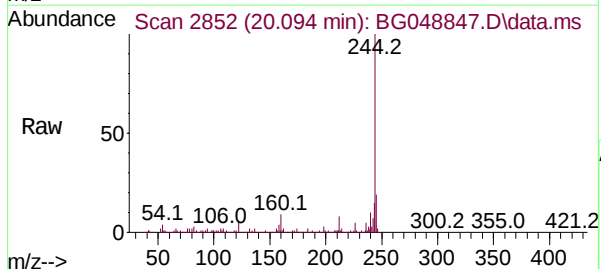


Abundance Scan 2789 (19.724 min): BG048693.D\data.ms (-2771) (-)

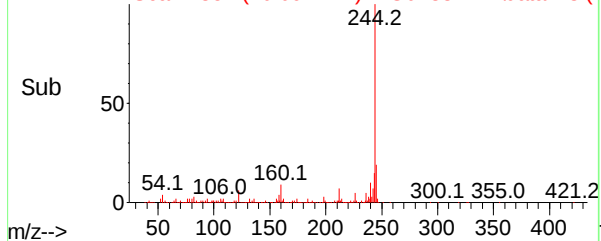


Benzidine
Concen: 2.09 ng
RT: 20.094 min Scan# 2852
Delta R.T. 0.382 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

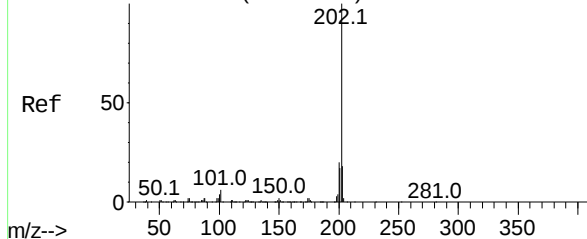
Tgt Ion:	184	Resp:	7206
Ion	Ratio	Lower	Upper
184	100		
185	17.0	10.7	16.1#
183	11.1	9.4	14.0



Abundance Scan 2852 (20.094 min): BG048847.D\data.ms (-2697) (-)



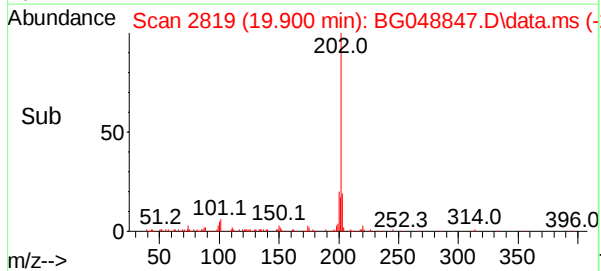
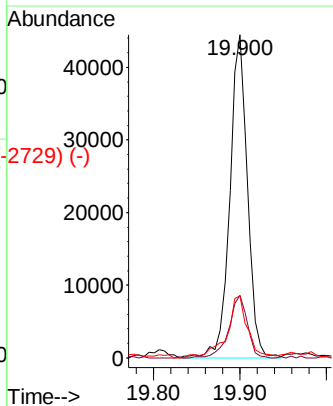
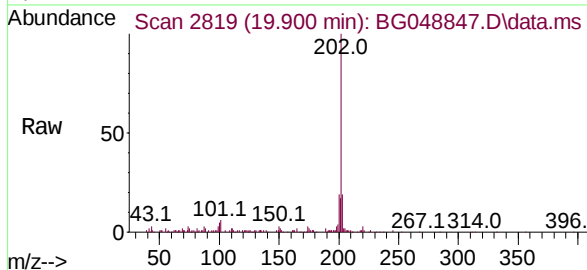
Abundance Scan 2821 (19.912 min): BG048693.D\data.ms (-2729) (-)



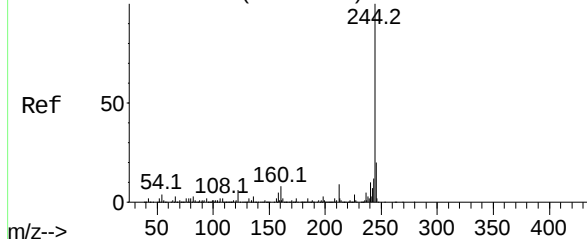
Pyrene
Concen: 7.26 ng
RT: 19.900 min Scan# 2819
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

Tgt Ion:	202	Resp:	63821
Ion	Ratio	Lower	Upper
202	100		
200	19.4	15.8	23.8
203	19.2	14.6	21.8

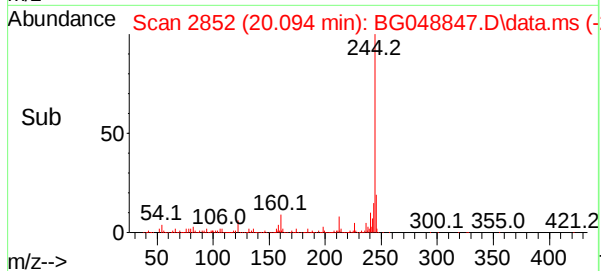
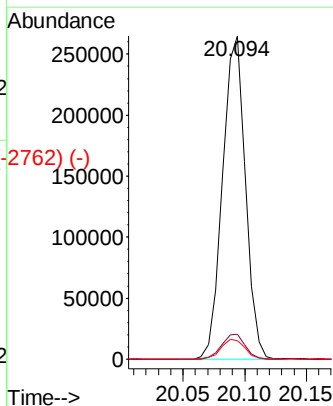
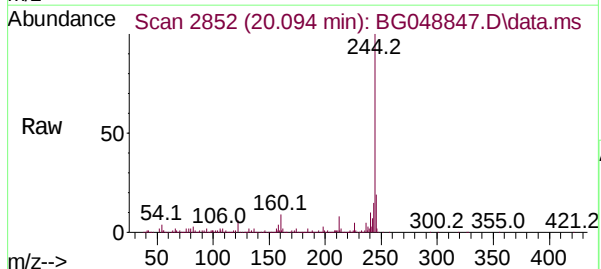


Abundance Scan 2854 (20.106 min): BG048693.D\data.ms (-2729) (-)

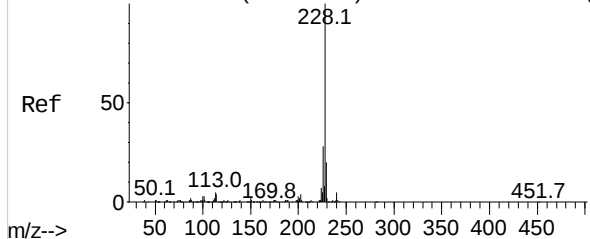


Terphenyl-d14
Concen: 46.47 ng
RT: 20.094 min Scan# 2852
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Tgt Ion:	244	Resp:	343029
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.9	10.3
122	5.8	5.0	7.6



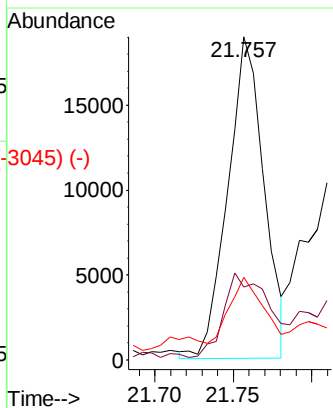
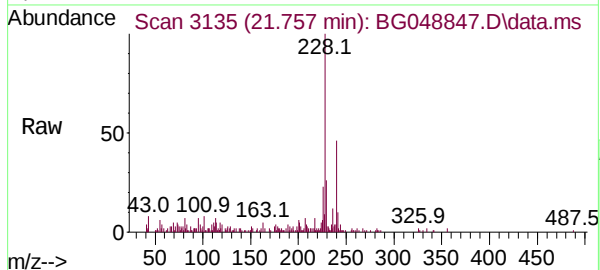
Abundance Scan 3138 (21.774 min): BG048693.D\data.ms (-3129) (-)



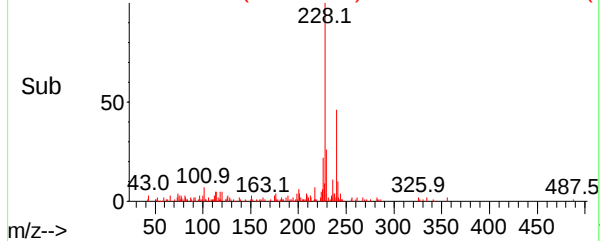
Benzo(a)anthracene
Concen: 3.50 ng
RT: 21.757 min Scan# 3135
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

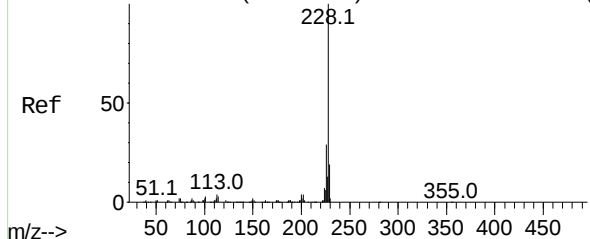
Tgt Ion:	228	Resp:	30358
Ion Ratio	Lower	Upper	
228	100		
226	22.6	22.7	34.1#
229	25.6	16.0	24.0#



Abundance Scan 3135 (21.757 min): BG048847.D\data.ms (-3045) (-)

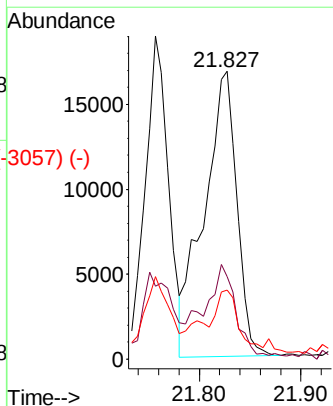
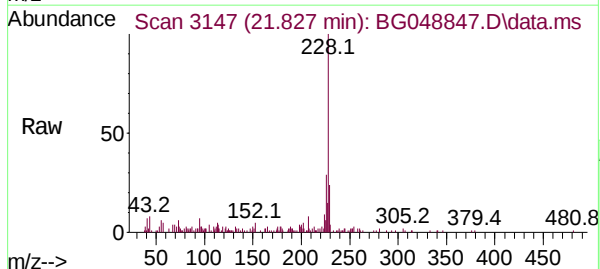


Abundance Scan 3150 (21.845 min): BG048693.D\data.ms (-3129) (-)

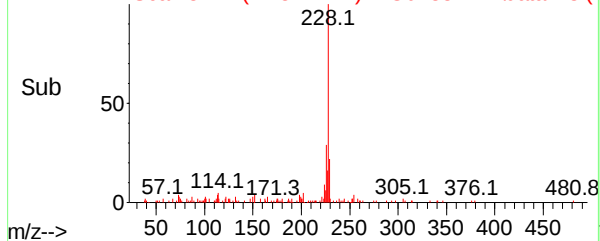


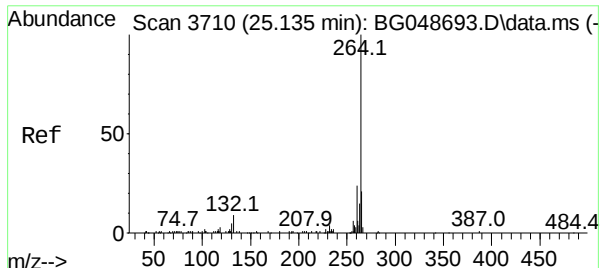
Chrysene
Concen: 4.58 ng
RT: 21.827 min Scan# 3147
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Tgt Ion:	228	Resp:	37887
Ion Ratio	Lower	Upper	
228	100		
226	28.7	23.1	34.7
229	24.1	15.3	22.9#



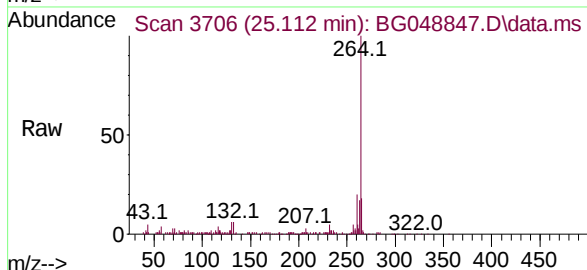
Abundance Scan 3147 (21.827 min): BG048847.D\data.ms (-3057) (-)



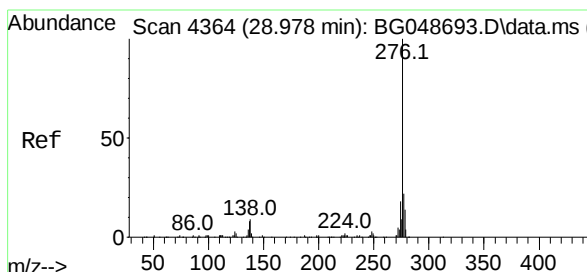
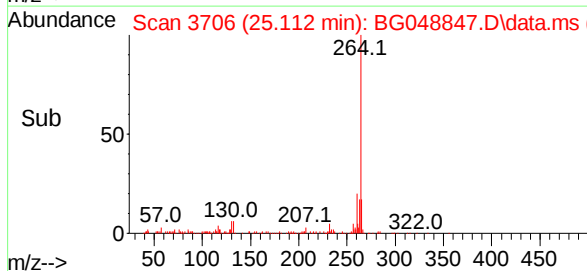
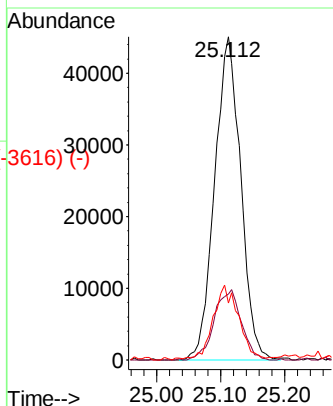


Scan 3710 (25.135 min): BG048693.D\data.ms (-3696) (-)
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.112 min Scan# 3706
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

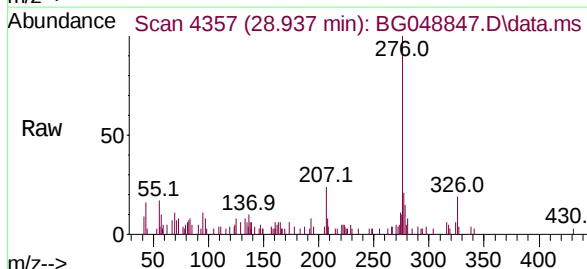
Instrument :
 BNA_G
 ClientSampled :
 TP-4



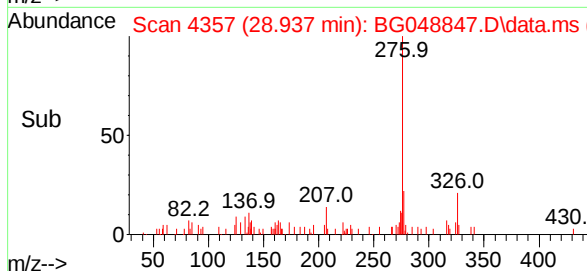
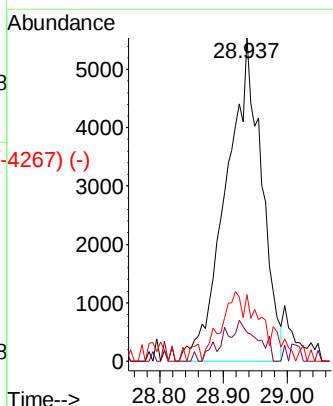
Tgt Ion	Ratio	Lower	Upper
264	100		
260	20.4	19.4	29.2
265	17.5	16.9	25.3

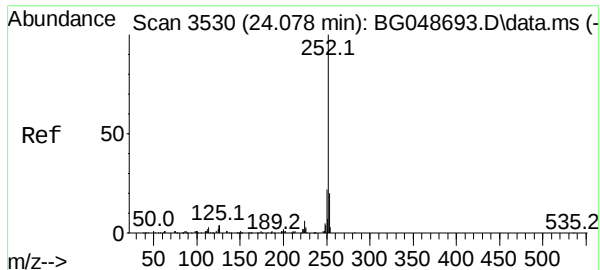


Scan 4364 (28.978 min): BG048693.D\data.ms (-4340) (-)
 Indeno(1,2,3-cd)pyrene
 Concen: 2.26 ng
 RT: 28.937 min Scan# 4357
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02



Tgt Ion	Ratio	Lower	Upper
276	100		
138	7.4	5.1	7.7
277	13.0	19.8	29.6#

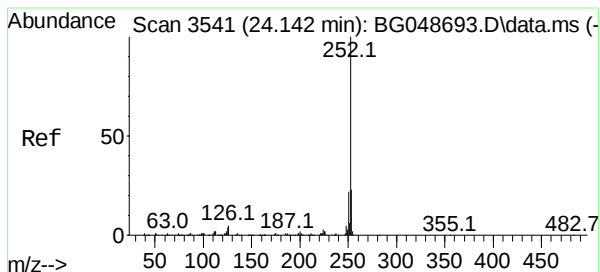
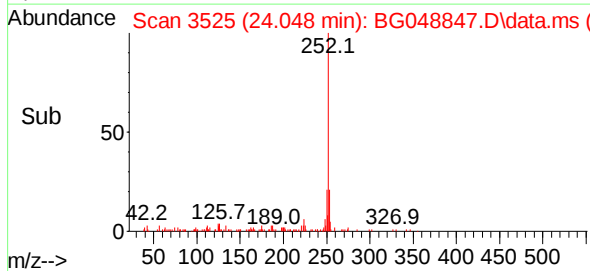
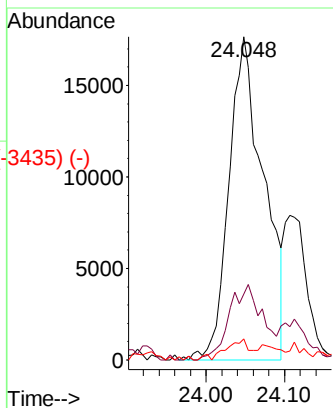
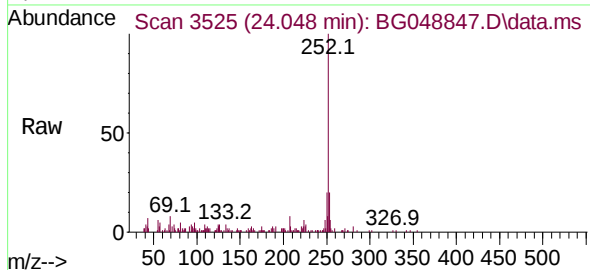




Benzo(b)fluoranthene
 Concen: 6.28 ng
 RT: 24.048 min Scan# 3525
 Delta R.T. -0.000 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

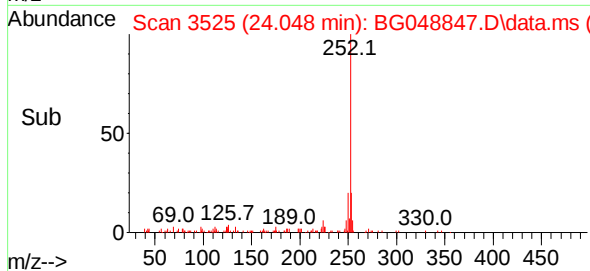
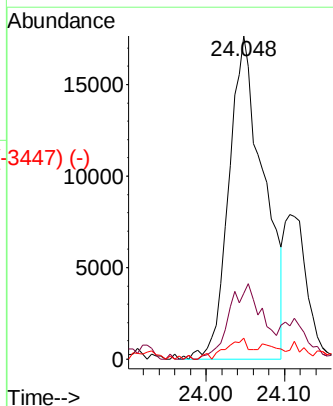
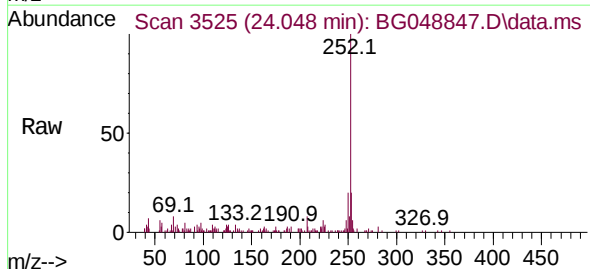
Instrument :
 BNA_G
 ClientSampled :
 TP-4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.3	16.2	24.4
125	10.7	3.0	4.4#



Benzo(k)fluoranthene
 Concen: 6.67 ng
 RT: 24.048 min Scan# 3525
 Delta R.T. -0.071 min
 Lab File: BG048847.D
 Acq: 22 Apr 2021 15:02

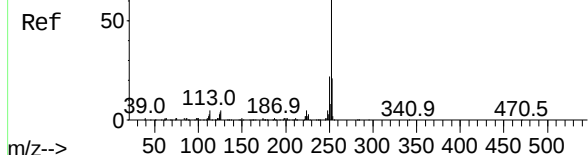
Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.3	18.0	27.0
125	10.7	3.1	4.7#



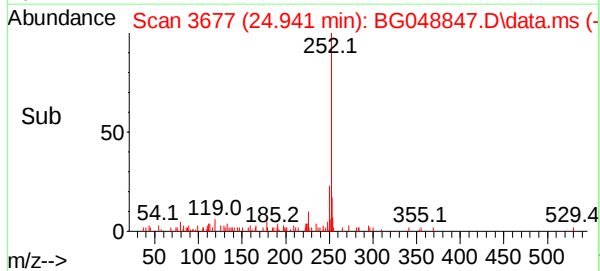
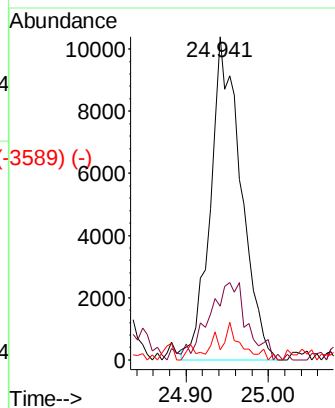
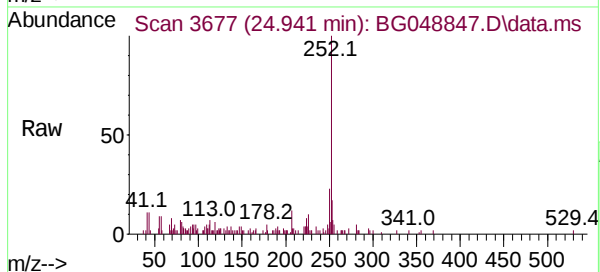
Abundance Scan 3683 (24.977 min): BG048693.D\data.ms (-3690) (-)

Benzo(a)pyrene
Concen: 3.36 ng
RT: 24.941 min Scan# 3677
Delta R.T. -0.012 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02

Instrument :
BNA_G
ClientSampled :
TP-4

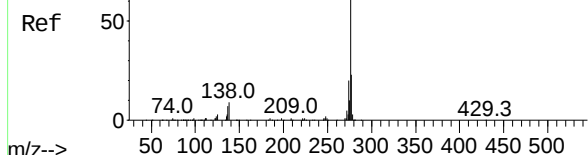


Tgt Ion:	252	Resp:	26847
Ion Ratio	Lower	Upper	
252	100		
253	16.6	16.6	25.0#
125	3.1	3.5	5.3#



Abundance Scan 4569 (30.182 min): BG048693.D\data.ms (-4592) (-)

Benzo(g,h,i)perylene
Concen: 2.66 ng
RT: 30.129 min Scan# 4560
Delta R.T. -0.000 min
Lab File: BG048847.D
Acq: 22 Apr 2021 15:02



Tgt Ion:	276	Resp:	21097
Ion Ratio	Lower	Upper	
276	100		
277	15.8	18.4	27.6#
138	9.0	7.0	10.6

