

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG081621\
 Data File : BG049867.D
 Acq On : 17 Aug 2021 2:39
 Operator : CG/JU
 Sample : M3407-20 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 28N

Quant Time: Aug 17 04:45:06 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG080321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 16 18:23:02 2021
 Response via : Initial Calibration

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

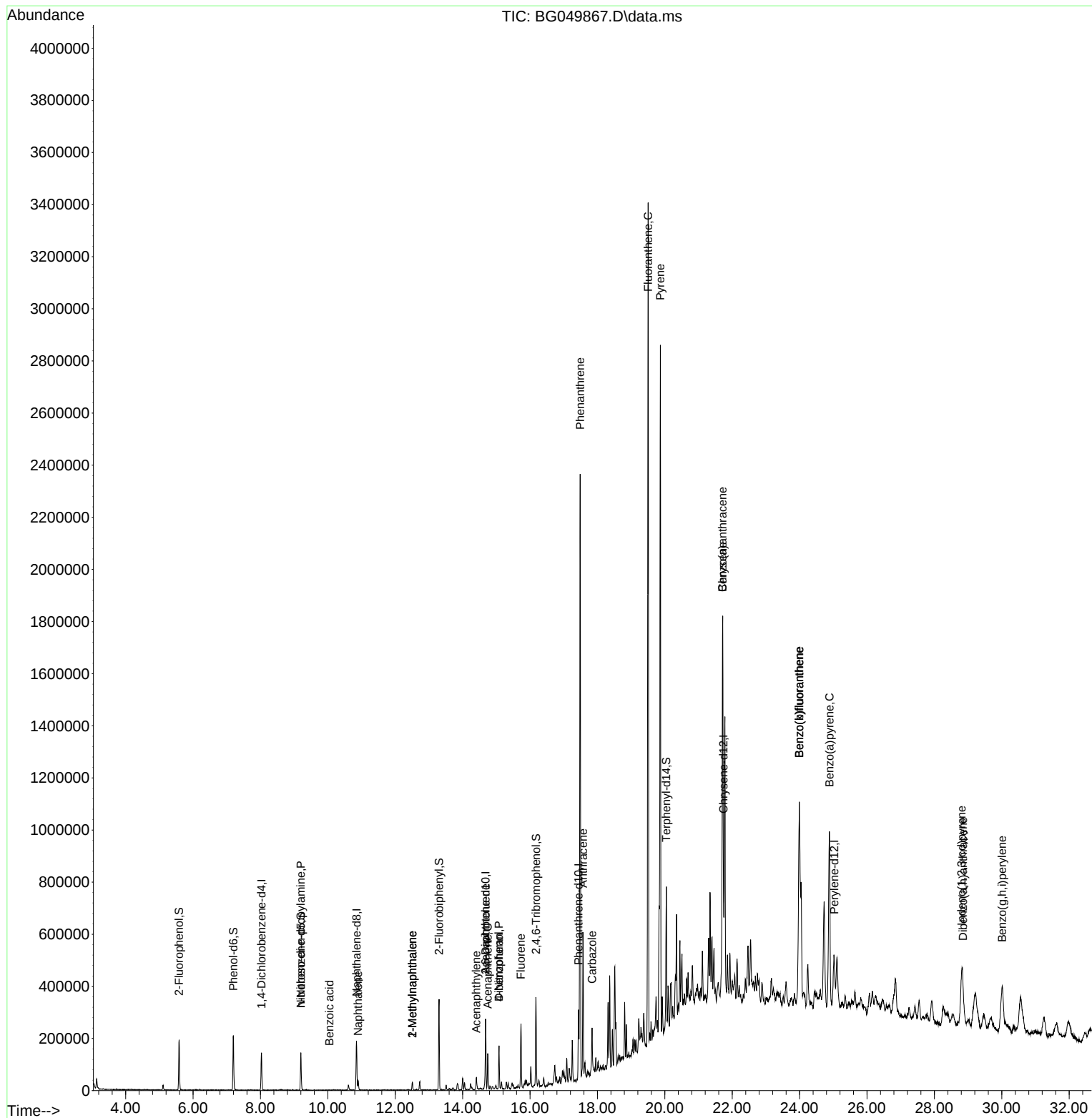
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.032	152	38682	20.000	ng	0.00
21) Naphthalene-d8	10.851	136	154530	20.000	ng	# 0.00
39) Acenaphthene-d10	14.681	164	96217	20.000	ng	0.00
64) Phenanthrene-d10	17.442	188	174327	20.000	ng	# 0.00
76) Chrysene-d12	21.737	240	152410	20.000	ng	0.02
86) Perylene-d12	25.026	264	160904	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.588	112	82998	38.463	ng	0.00
7) Phenol-d6	7.197	99	116575	35.689	ng	0.00
23) Nitrobenzene-d5	9.201	82	86601	24.799	ng	0.00
42) 2,4,6-Tribromophenol	16.179	330	51438	36.371	ng	0.00
45) 2-Fluorobiphenyl	13.301	172	178683	27.022	ng	0.00
79) Terphenyl-d14	20.045	244	203052	24.197	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.201	70	12897	5.900	ng	# 65
31) Naphthalene	10.898	128	28412	3.511	ng	98
32) Benzoic acid	10.052	122	84	4.998	ng	# 1
37) 2-Methylnaphthalene	12.514	142	15165	2.487	ng	95
38) 1-Methylnaphthalene	12.514	142	15165	2.647	ng	96
49) Acenaphthylene	14.405	152	37579	4.332	ng	94
51) 2,6-Dinitrotoluene	14.681	165	14235	8.906	ng	# 10
52) Acenaphthene	14.746	154	49310	9.436	ng	95
55) Dibenzofuran	15.081	168	84359	9.951	ng	97
56) 4-Nitrophenol	15.081	139	36015	31.627	ng	# 1
58) Fluorene	15.733	166	104664	15.189	ng	93
71) Phenanthrene	17.489	178	1410299	153.768	ng	98
72) Anthracene	17.572	178	340358	37.786	ng	99
73) Carbazole	17.842	167	107323	12.580	ng	95
75) Fluoranthene	19.504	202	2095143	185.639	ng	94
78) Pyrene	19.869	202	1724774	165.995	ng	# 92
81) Benzo(a)anthracene	21.713	228	941912	94.898	ng	97
83) Chrysene	21.713	228	941912	99.275	ng	97
87) Indeno(1,2,3-cd)pyrene	28.809	276	455062	39.216	ng	# 98
88) Benzo(b)fluoranthene	23.992	252	1098848	104.127	ng	# 93
89) Benzo(k)fluoranthene	23.992	252	1098848	111.632	ng	# 97
90) Benzo(a)pyrene	24.885	252	783016	81.989	ng	# 91
91) Dibenzo(a,h)anthracene	28.851	278	115430	11.805	ng	# 81
92) Benzo(g,h,i)perylene	30.008	276	428257	44.703	ng	96

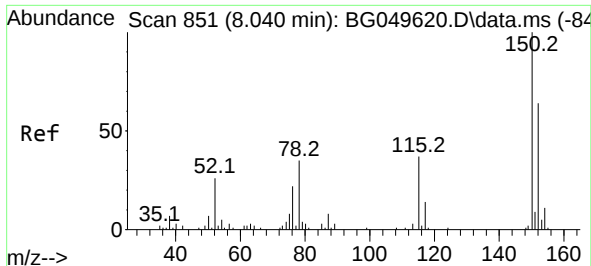
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
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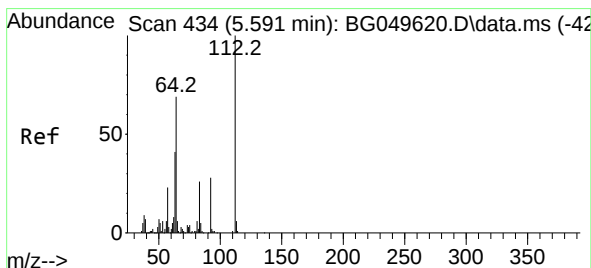
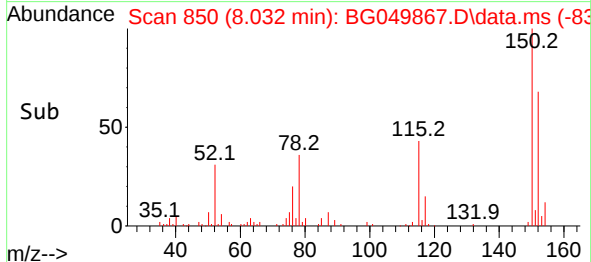
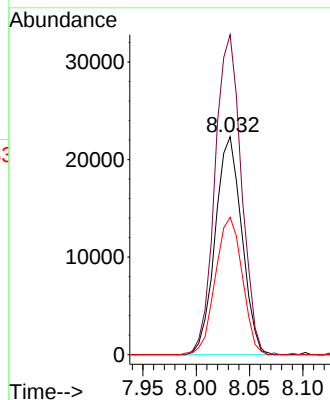
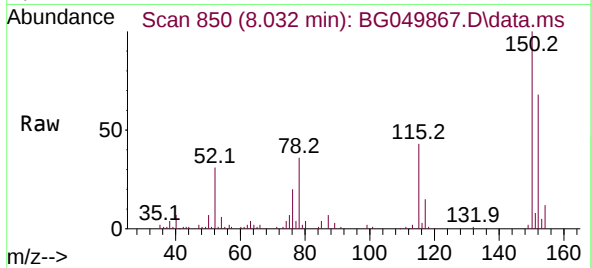




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.032 min Scan# 850
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

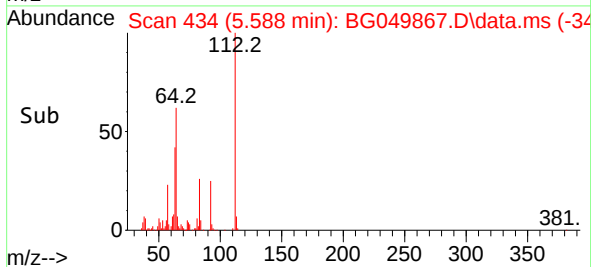
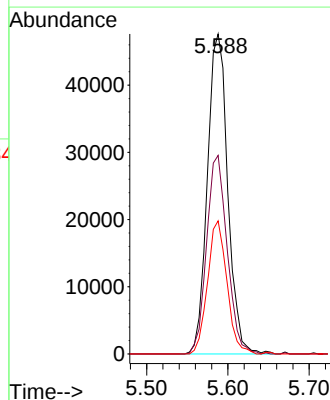
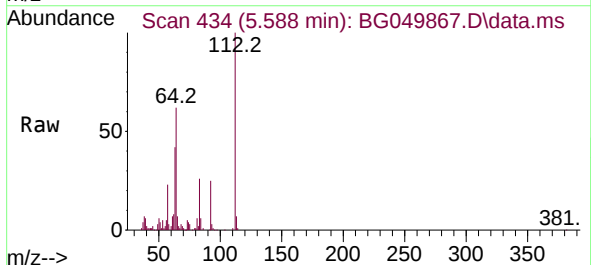
Instrument :
BNA_G
ClientSampleId :
28N

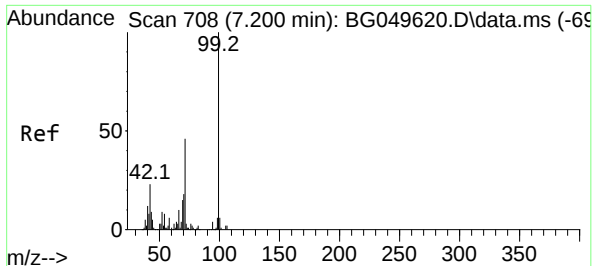
Tgt Ion:152 Resp: 38682
Ion Ratio Lower Upper
152 100
150 146.8 119.4 179.0
115 63.1 60.2 90.4



#5
2-Fluorophenol
Concen: 38.463 ng
RT: 5.588 min Scan# 434
Delta R.T. 0.010 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:112 Resp: 82998
Ion Ratio Lower Upper
112 100
64 62.1 46.7 70.1
63 41.6 35.3 52.9

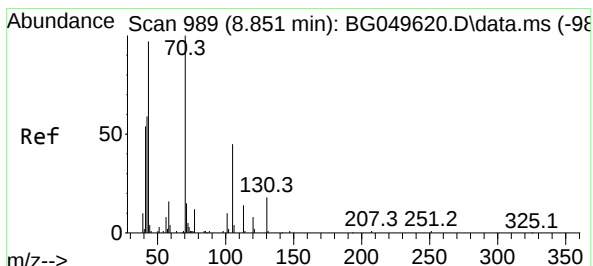
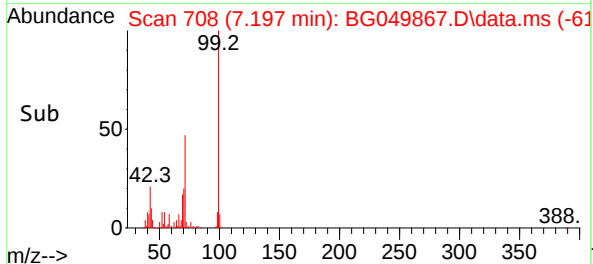
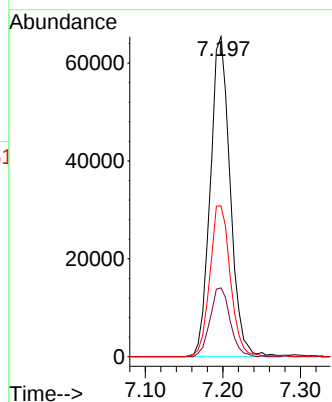
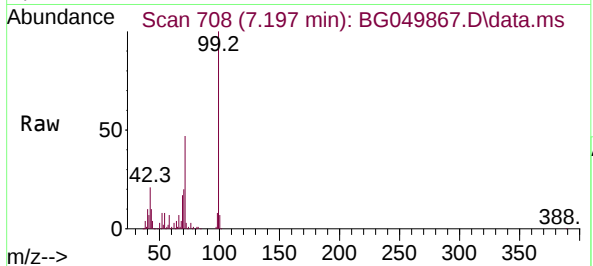




#7
Phenol-d6
Concen: 35.689 ng
RT: 7.197 min Scan# 708
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

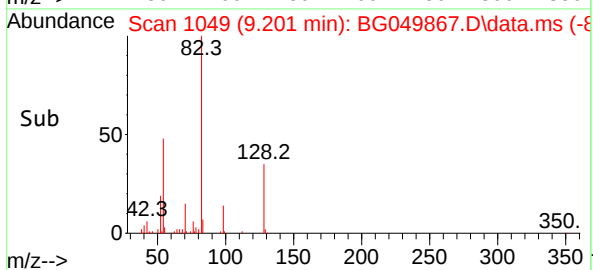
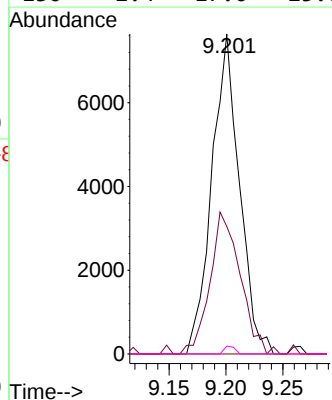
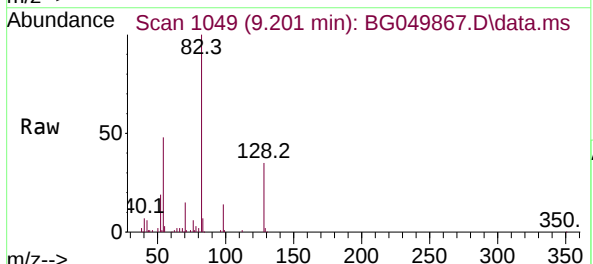
Instrument :
BNA_G
ClientSampleId :
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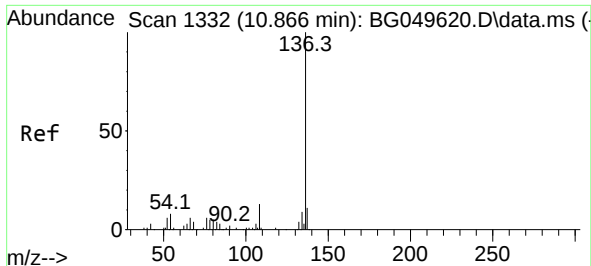
Tgt Ion:	99	Resp:	116575
Ion	Ratio	Lower	Upper
99	100		
42	21.5	20.5	30.7
71	47.2	41.5	62.3



#19
n-Nitroso-di-n-propylamine
Concen: 5.900 ng
RT: 9.201 min Scan# 1049
Delta R.T. 0.362 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:	70	Resp:	12897
Ion	Ratio	Lower	Upper
70	100		
42	39.8	54.5	81.7#
101	0.0	9.0	13.6#
130	2.4	17.0	25.6#

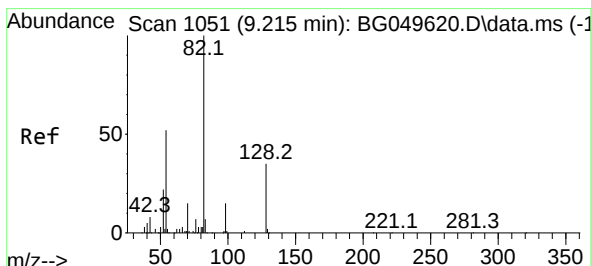
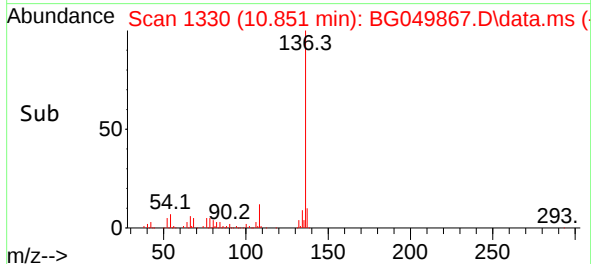
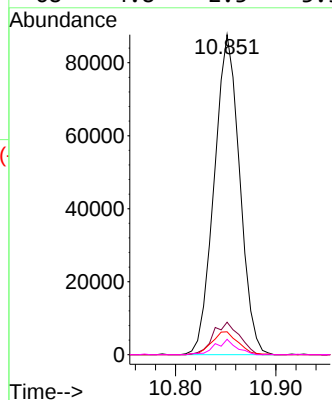
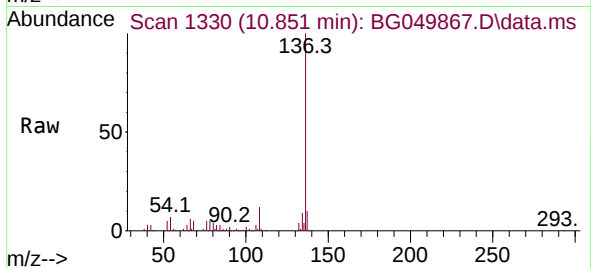




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.851 min Scan# 1330
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

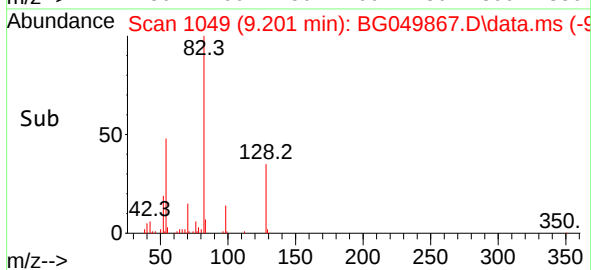
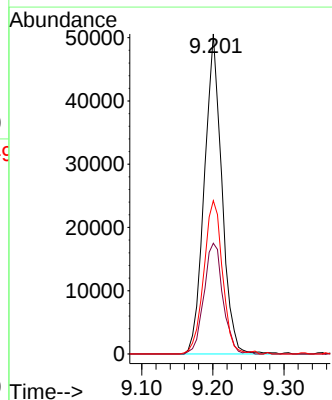
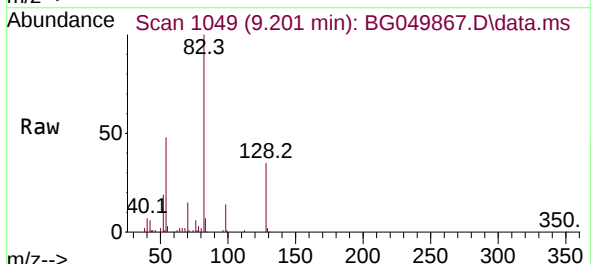
Instrument :
BNA_G
ClientSampleId :
28N

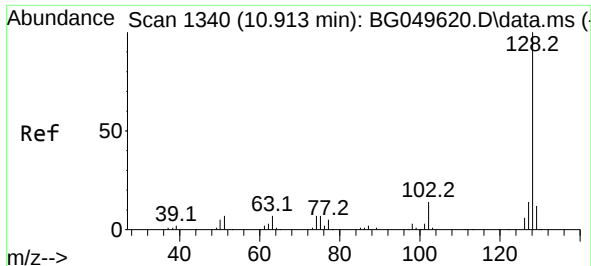
Tgt Ion:	136	Resp:	154530
Ion Ratio	Lower	Upper	
136	100		
137	10.2	8.2	12.2
54	7.2	5.5	8.3
68	4.8	2.3	3.5#



#23
Nitrobenzene-d5
Concen: 24.799 ng
RT: 9.201 min Scan# 1049
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:	82	Resp:	86601
Ion Ratio	Lower	Upper	
82	100		
128	34.6	29.8	44.6
54	47.9	45.8	68.8

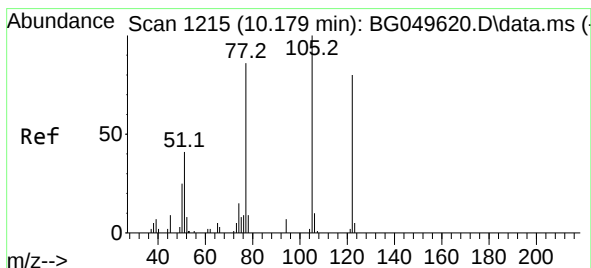
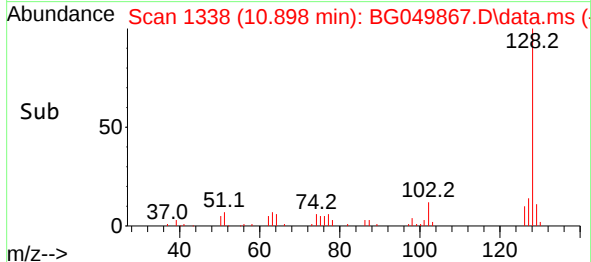
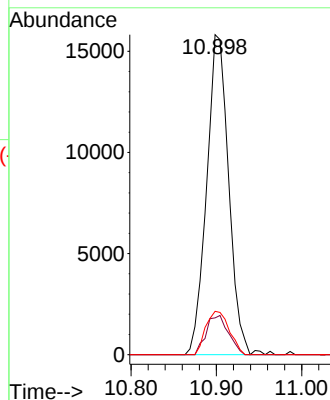
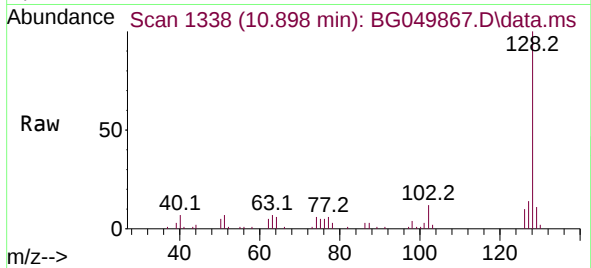




#31
Naphthalene
Concen: 3.511 ng
RT: 10.898 min Scan# 1338
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

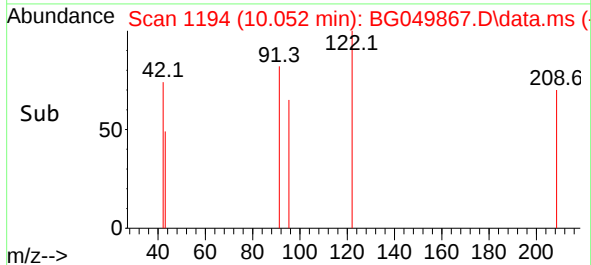
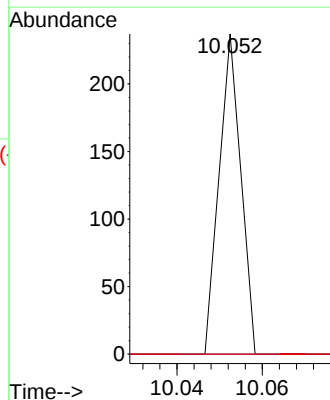
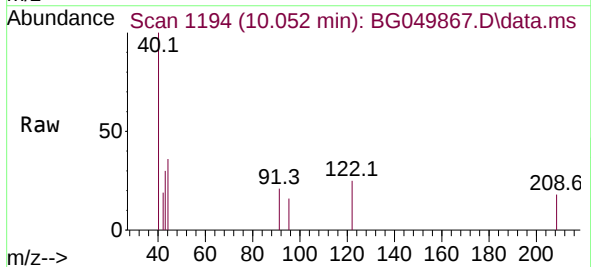
Instrument :
BNA_G
ClientSampled :
28N

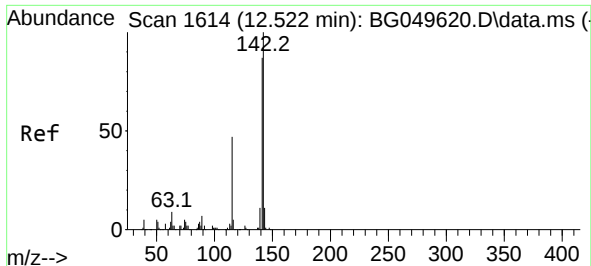
Tgt Ion:128 Resp: 28412
Ion Ratio Lower Upper
128 100
129 11.5 8.5 12.7
127 13.6 10.2 15.4



#32
Benzoic acid
Concen: 4.998 ng
RT: 10.052 min Scan# 1194
Delta R.T. -0.114 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:122 Resp: 84
Ion Ratio Lower Upper
122 100
105 0.0 92.3 132.3#
77 0.0 66.5 106.5#

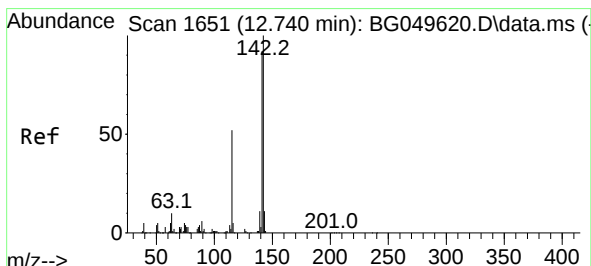
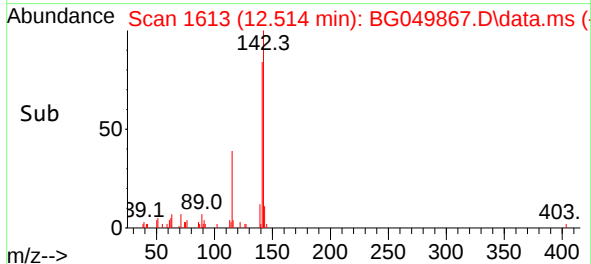
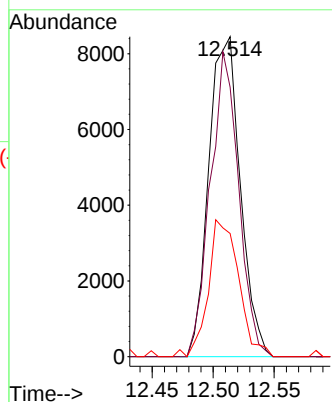
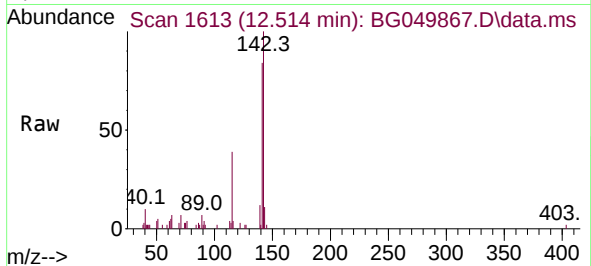




#37
2-Methylnaphthalene
Concen: 2.487 ng
RT: 12.514 min Scan# 1613
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

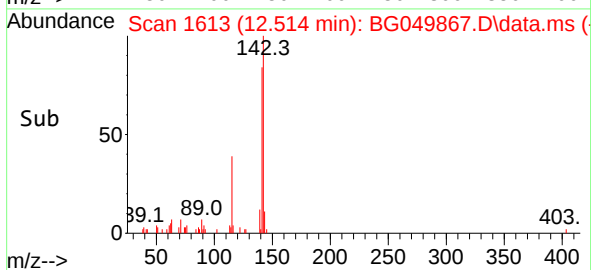
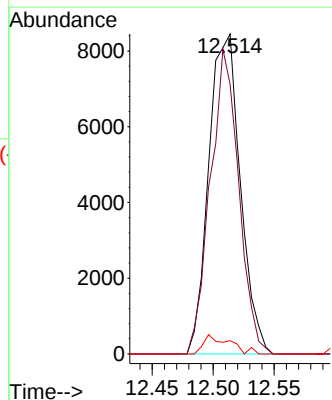
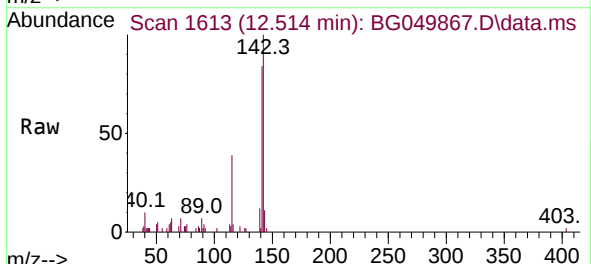
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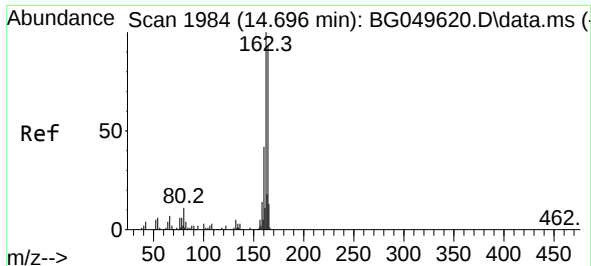
Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.2	68.8	103.2
115	38.5	36.4	54.6



#38
1-Methylnaphthalene
Concen: 2.647 ng
RT: 12.514 min Scan# 1613
Delta R.T. -0.214 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.2	70.6	106.0
116	4.2	4.0	6.0

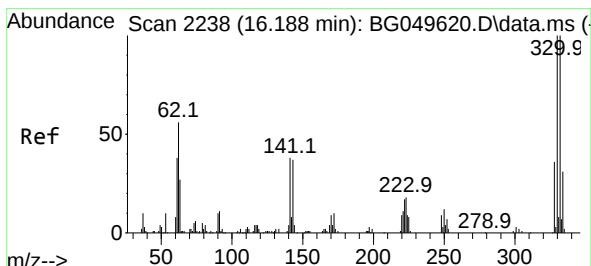
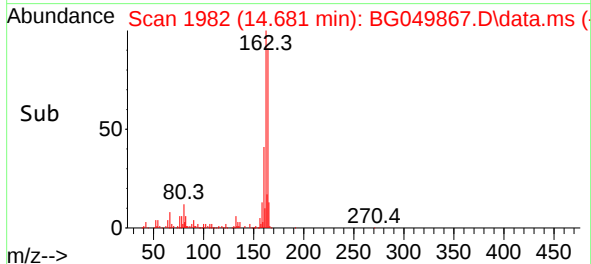
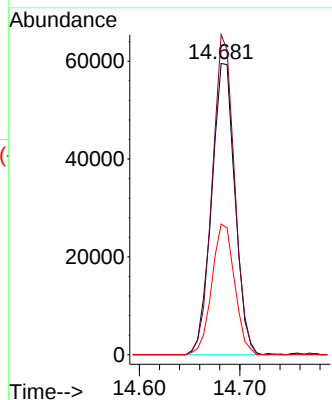
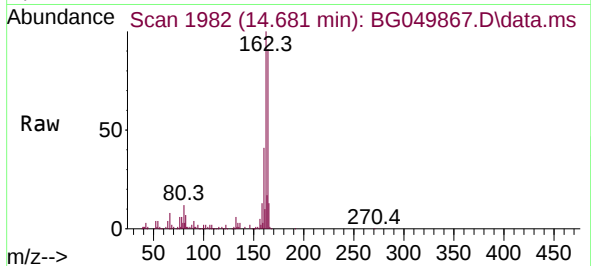




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.681 min Scan# 1982
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

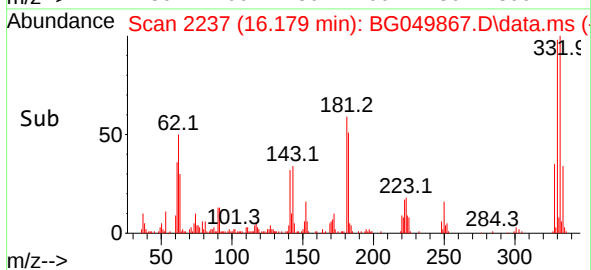
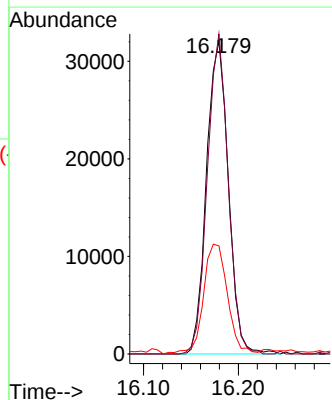
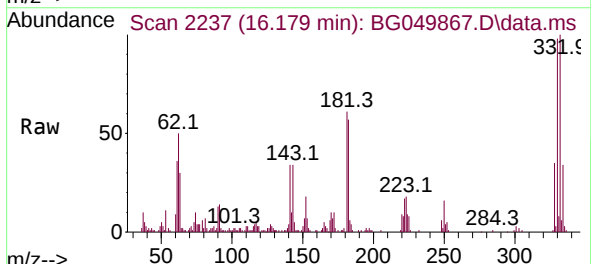
Instrument :
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ClientSampleId :
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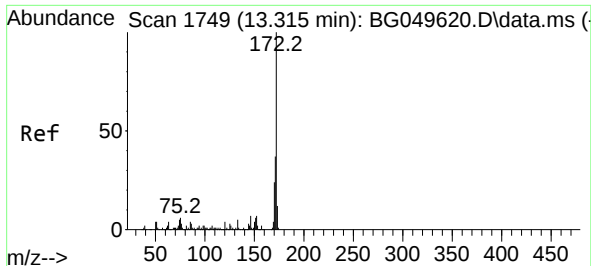
Tgt Ion:	164	Resp:	96217
Ion Ratio	Lower	Upper	
164	100		
162	109.9	81.4	122.0
160	44.8	34.9	52.3



#42
2,4,6-Tribromophenol
Concen: 36.371 ng
RT: 16.179 min Scan# 2237
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:	330	Resp:	51438
Ion Ratio	Lower	Upper	
330	100		
332	97.3	77.3	115.9
141	38.2	35.6	53.4

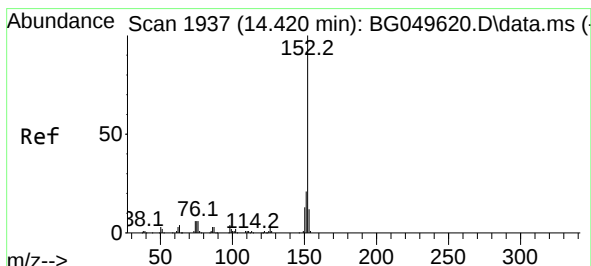
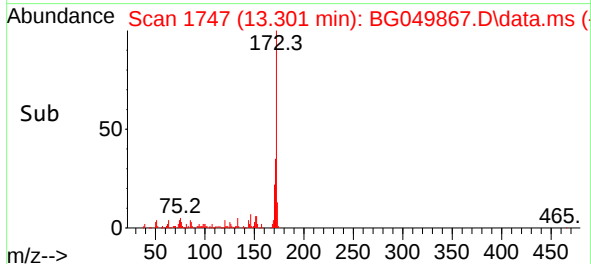
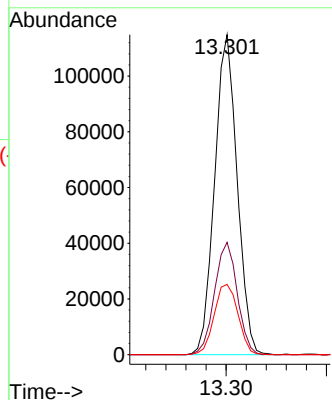
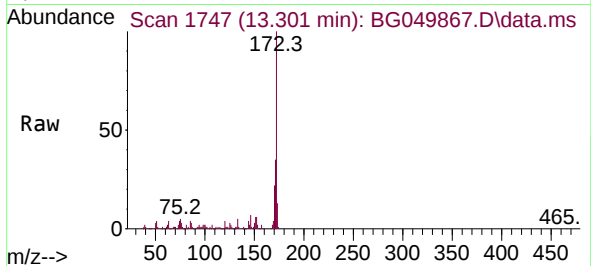




#45
2-Fluorobiphenyl
Concen: 27.022 ng
RT: 13.301 min Scan# 1747
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

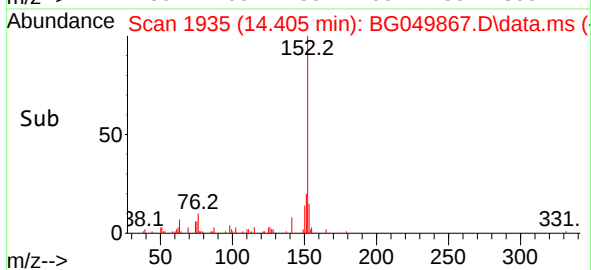
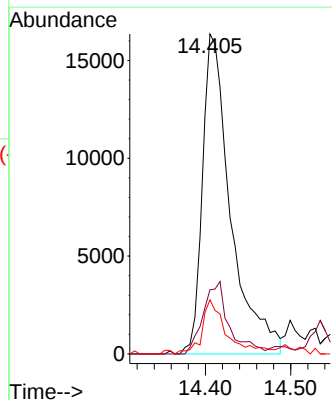
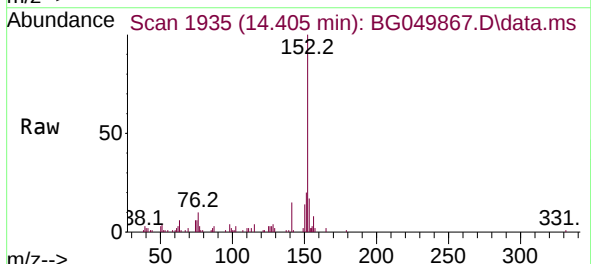
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BNA_G
ClientSampleId :
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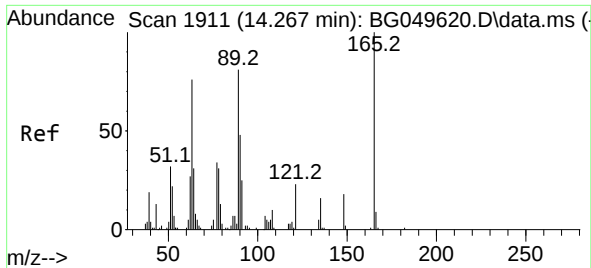
Tgt Ion:172	Resp:	178683
Ion Ratio	Lower	Upper
172	100	
171	35.1	28.6 43.0
170	22.0	18.6 27.8



#49
Acenaphthylene
Concen: 4.332 ng
RT: 14.405 min Scan# 1935
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:152	Resp:	37579
Ion Ratio	Lower	Upper
152	100	
151	20.0	18.2 27.4
153	16.9	11.7 17.5

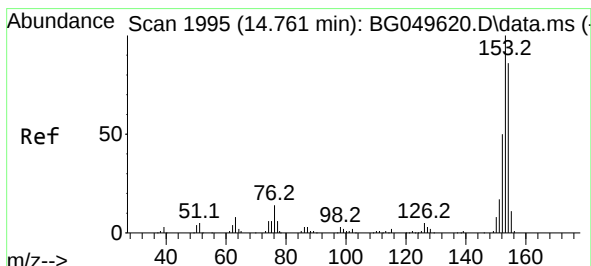
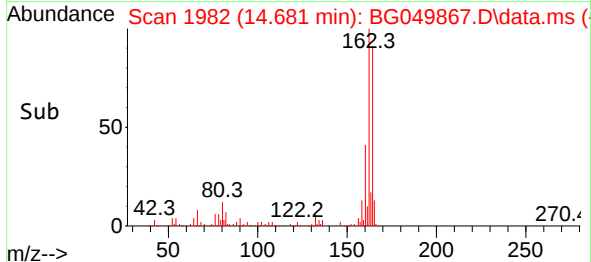
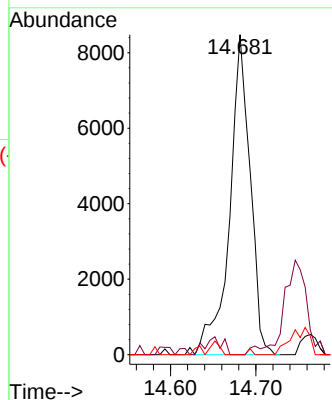
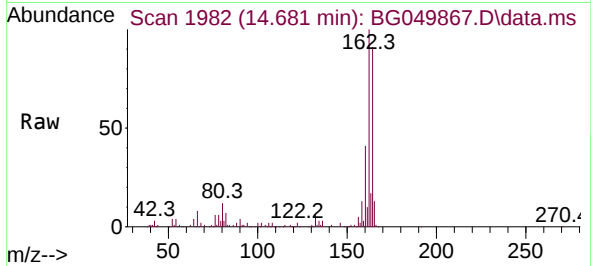




#51
2,6-Dinitrotoluene
Concen: 8.906 ng
RT: 14.681 min Scan# 1982
Delta R.T. 0.427 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

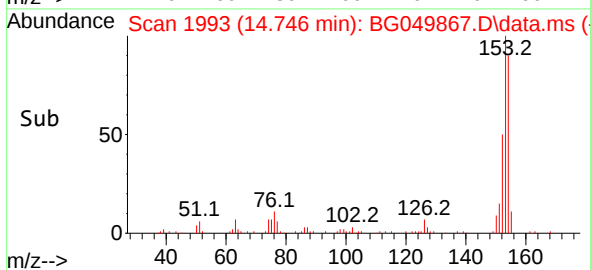
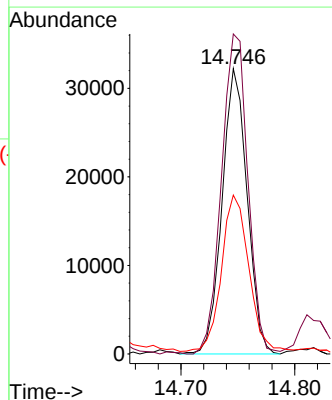
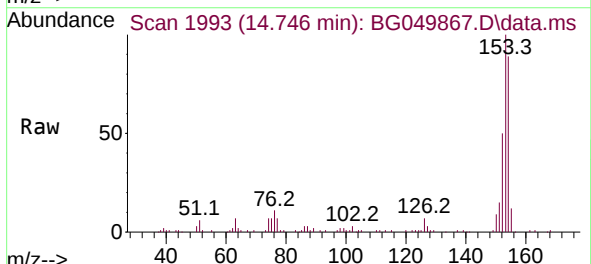
Instrument :
BNA_G
ClientSampled :
28N

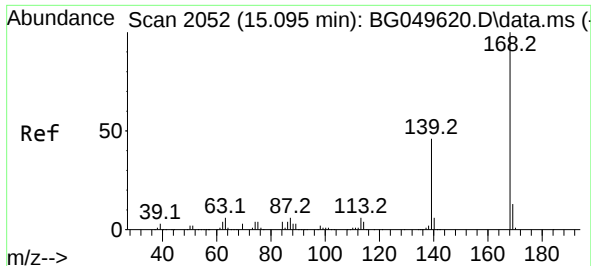
Tgt Ion:165 Resp: 14235
Ion Ratio Lower Upper
165 100
63 0.0 63.3 94.9#
89 0.0 63.4 95.0#



#52
Acenaphthene
Concen: 9.436 ng
RT: 14.746 min Scan# 1993
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:154 Resp: 49310
Ion Ratio Lower Upper
154 100
153 112.2 87.0 130.4
152 55.7 40.1 60.1

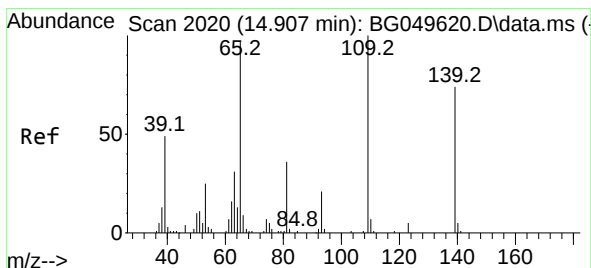
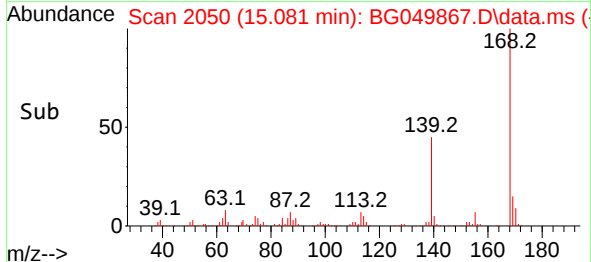
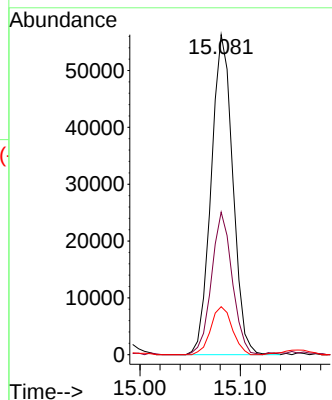
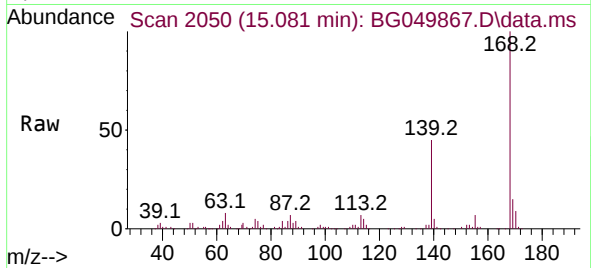




#55
Dibenzofuran
Concen: 9.951 ng
RT: 15.081 min Scan# 2050
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

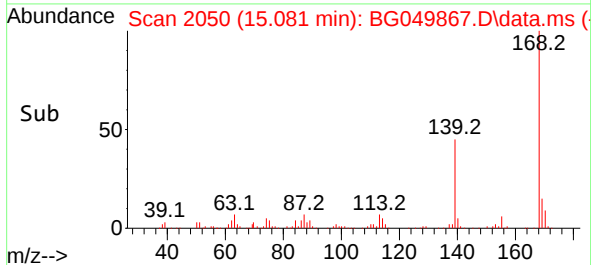
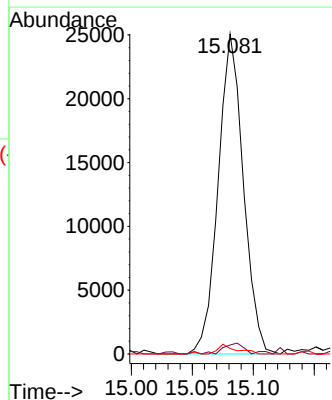
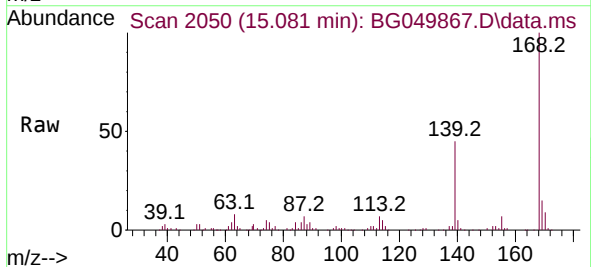
Instrument :
BNA_G
ClientSampleId :
28N

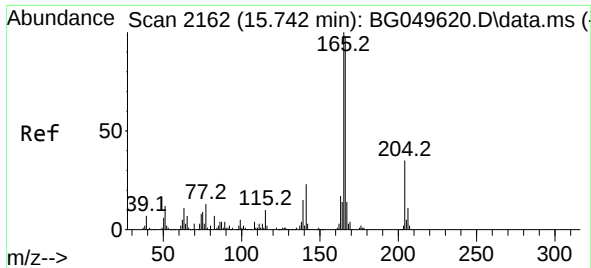
Tgt Ion	Ratio	Lower	Upper
168	100		
139	44.5	33.4	50.2
169	15.0	12.3	18.5



#56
4-Nitrophenol
Concen: 31.627 ng
RT: 15.081 min Scan# 2050
Delta R.T. 0.168 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion	Ratio	Lower	Upper
139	100		
109	2.8	116.3	156.3#
65	1.7	105.0	145.0#

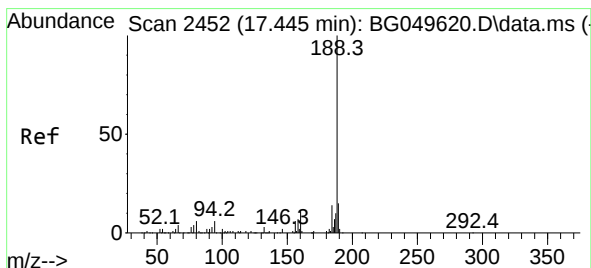
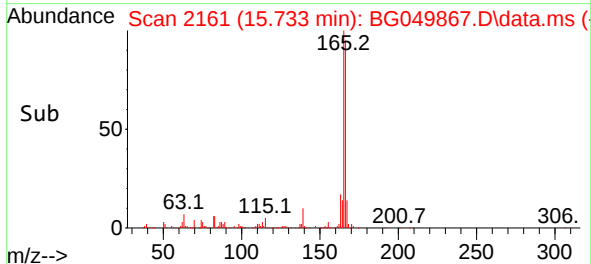
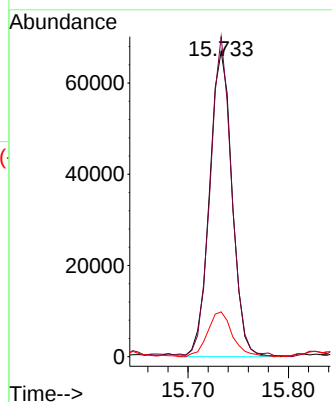
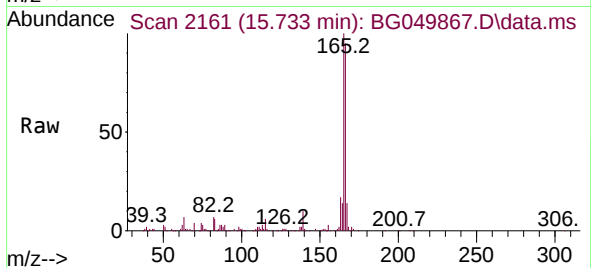




#58
Fluorene
Concen: 15.189 ng
RT: 15.733 min Scan# 2161
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

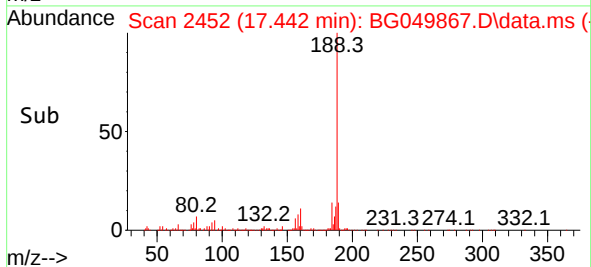
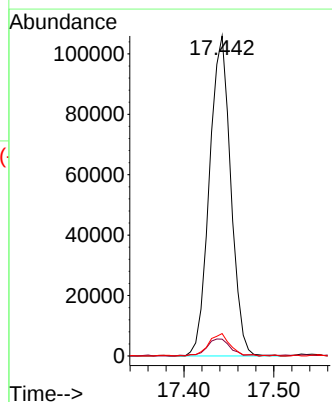
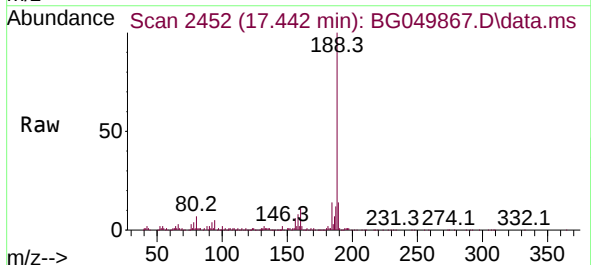
Instrument :
BNA_G
ClientSampleId :
28N

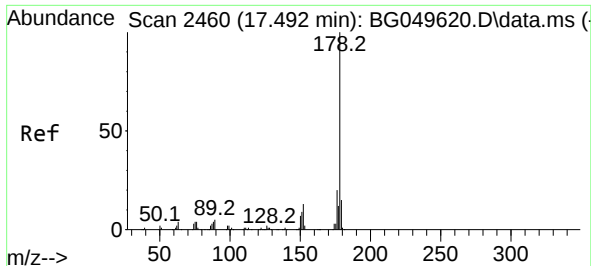
Tgt Ion:166 Resp: 104664
Ion Ratio Lower Upper
166 100
165 104.8 77.7 116.5
167 14.6 10.8 16.2



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.442 min Scan# 2452
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:188 Resp: 174327
Ion Ratio Lower Upper
188 100
94 5.2 5.4 8.0#
80 7.0 3.7 5.5#

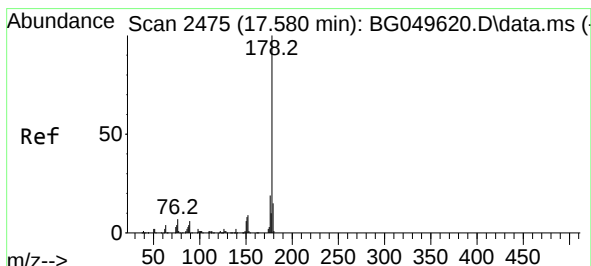
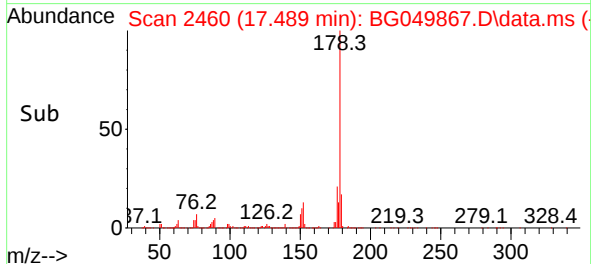
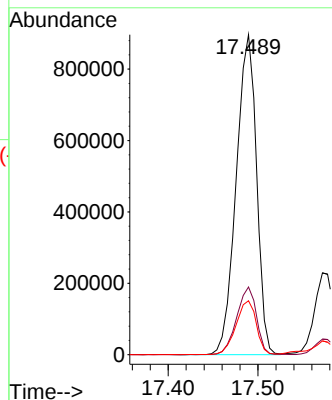
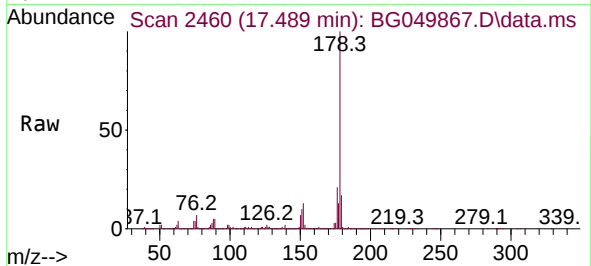




#71
Phenanthrene
Concen: 153.768 ng
RT: 17.489 min Scan# 2460
Delta R.T. 0.010 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

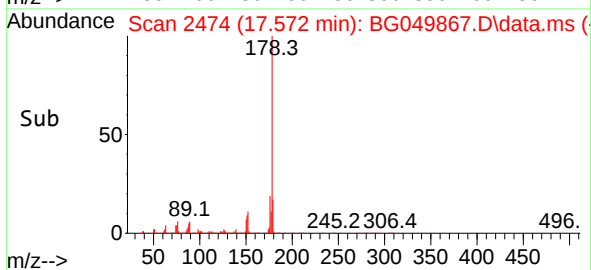
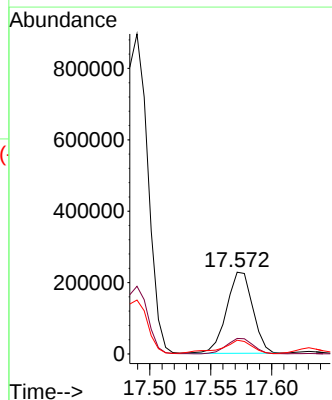
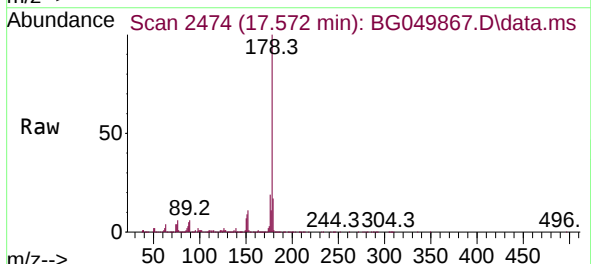
Instrument :
BNA_G
ClientSampleId :
28N

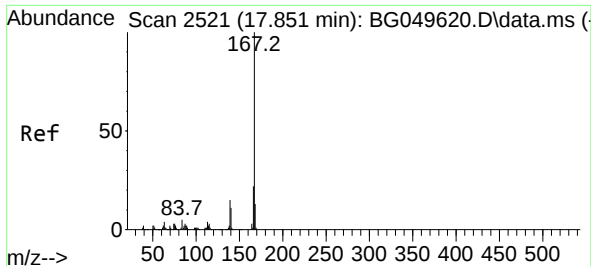
Tgt Ion:178 Resp: 1410299
Ion Ratio Lower Upper
178 100
176 21.2 16.0 24.0
179 16.9 14.2 21.4



#72
Anthracene
Concen: 37.786 ng
RT: 17.572 min Scan# 2474
Delta R.T. 0.004 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:178 Resp: 340358
Ion Ratio Lower Upper
178 100
176 19.0 14.6 21.8
179 16.8 13.4 20.0

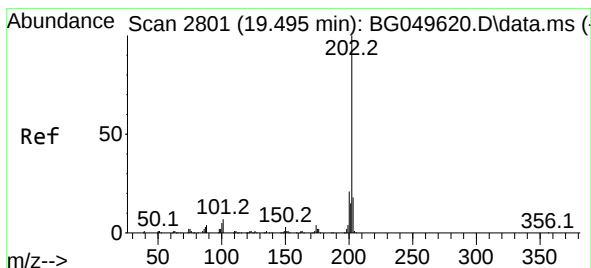
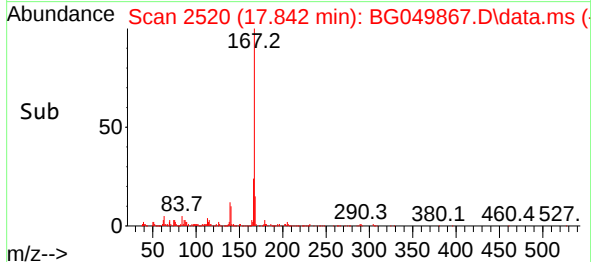
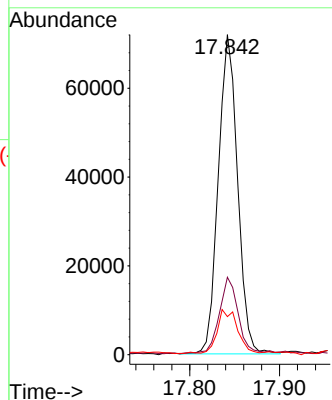
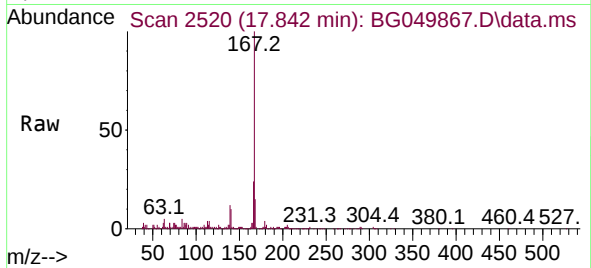




#73
 Carbazole
 Concen: 12.580 ng
 RT: 17.842 min Scan# 2520
 Delta R.T. 0.004 min
 Lab File: BG049867.D
 Acq: 17 Aug 2021 2:39

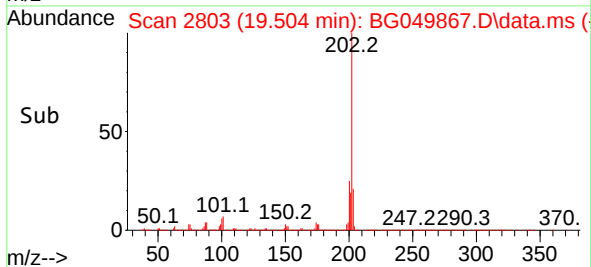
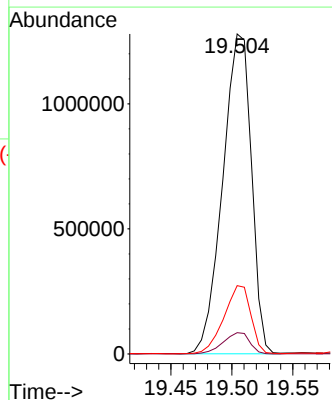
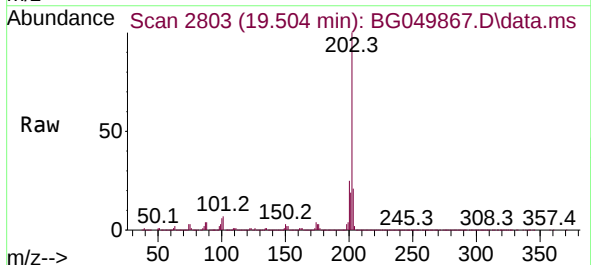
Instrument :
 BNA_G
 ClientSampled :
 28N

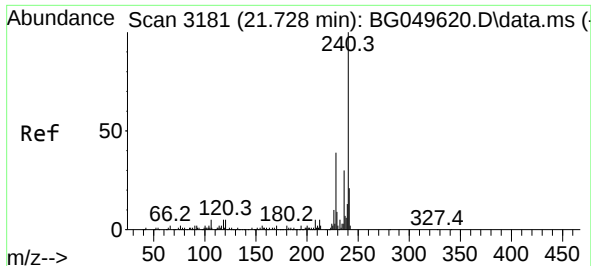
Tgt Ion:167 Resp: 107323
 Ion Ratio Lower Upper
 167 100
 166 24.2 17.4 26.2
 139 11.9 10.7 16.1



#75
 Fluoranthene
 Concen: 185.639 ng
 RT: 19.504 min Scan# 2803
 Delta R.T. 0.015 min
 Lab File: BG049867.D
 Acq: 17 Aug 2021 2:39

Tgt Ion:202 Resp: 2095143
 Ion Ratio Lower Upper
 202 100
 101 6.6 0.0 24.7
 203 21.4 0.0 38.5

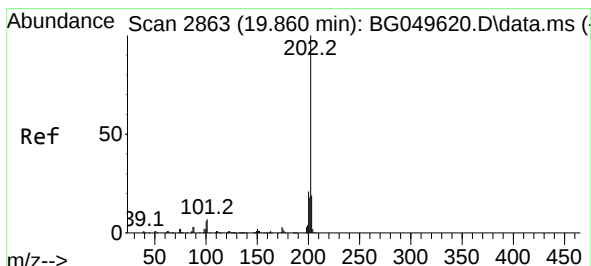
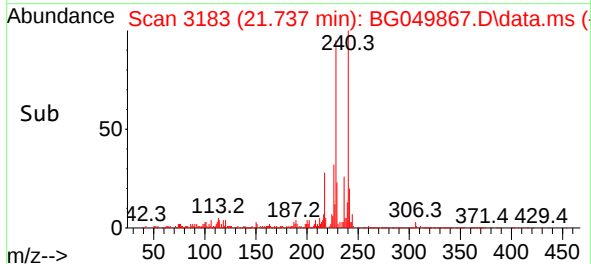
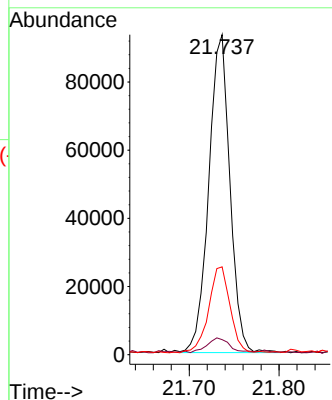
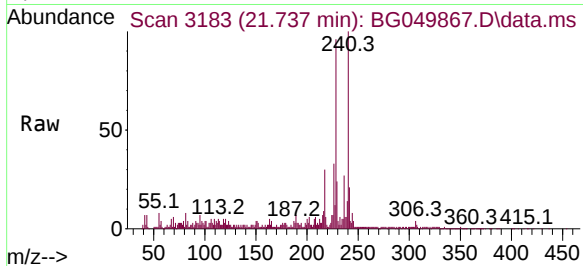




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.737 min Scan# 3183
Delta R.T. 0.015 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

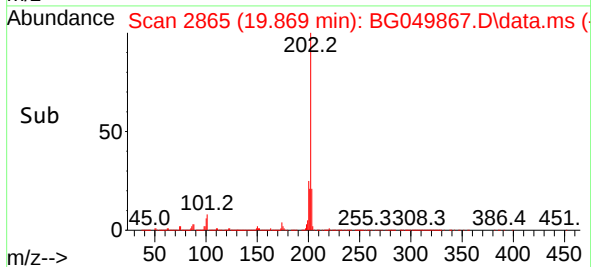
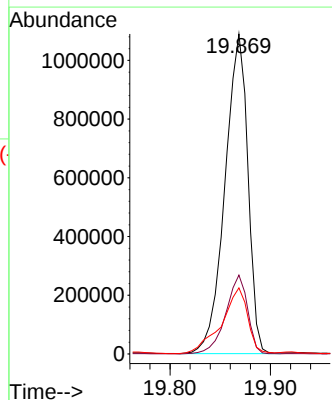
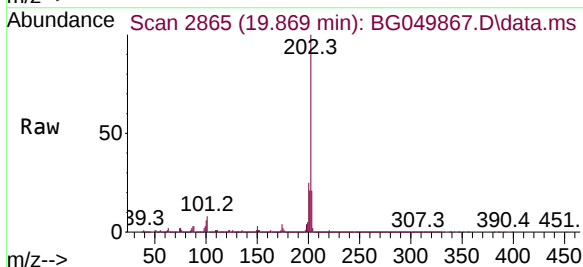
Instrument :
BNA_G
ClientSampleId :
28N

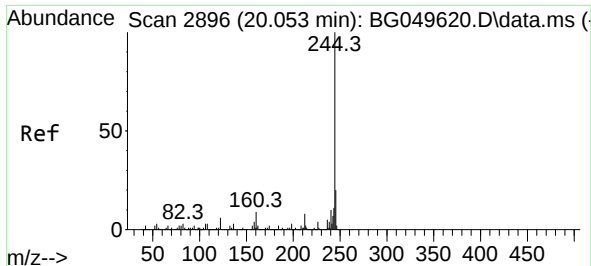
Tgt Ion:240 Resp: 152410
Ion Ratio Lower Upper
240 100
120 4.7 4.2 6.2
236 27.4 21.8 32.6



#78
Pyrene
Concen: 165.995 ng
RT: 19.869 min Scan# 2865
Delta R.T. 0.015 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:202 Resp: 1724774
Ion Ratio Lower Upper
202 100
200 24.7 15.8 23.8#
203 20.7 14.6 21.8

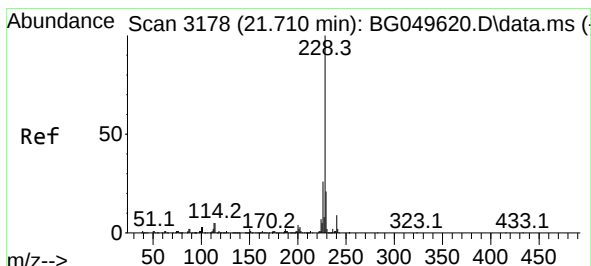
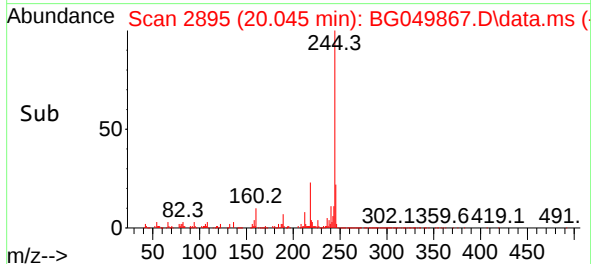
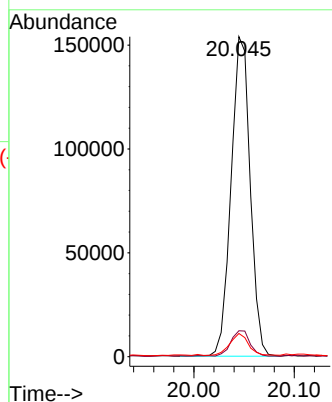
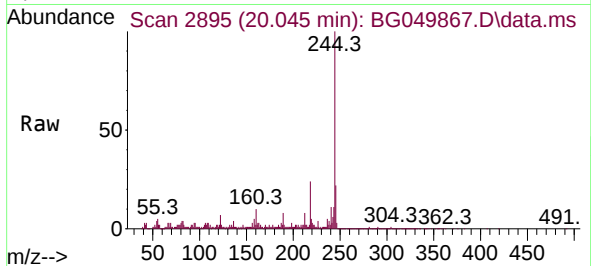




#79
Terphenyl-d14
Concen: 24.197 ng
RT: 20.045 min Scan# 2895
Delta R.T. -0.002 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

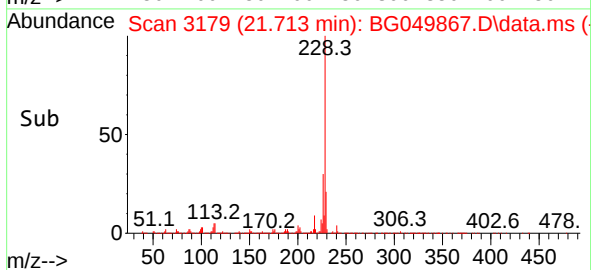
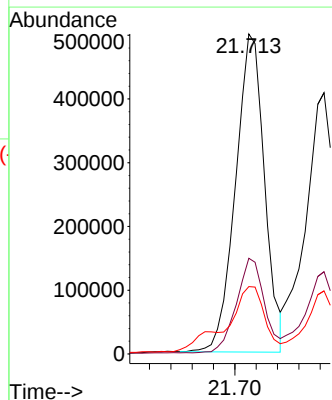
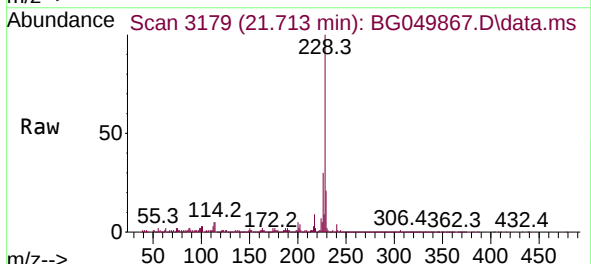
Instrument :
BNA_G
ClientSampled :
28N

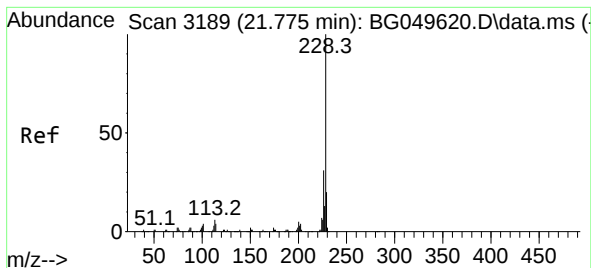
Tgt Ion:244 Resp: 203052
Ion Ratio Lower Upper
244 100
212 8.1 6.9 10.3
122 7.2 5.0 7.6



#81
Benzo(a)anthracene
Concen: 94.898 ng
RT: 21.713 min Scan# 3179
Delta R.T. 0.015 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:228 Resp: 941912
Ion Ratio Lower Upper
228 100
226 29.9 22.7 34.1
229 21.0 16.0 24.0





#83

Chrysene

Concen: 99.275 ng

RT: 21.713 min Scan# 3179

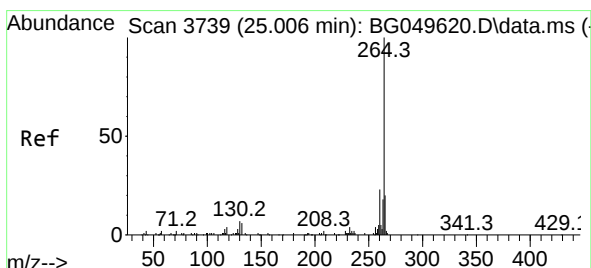
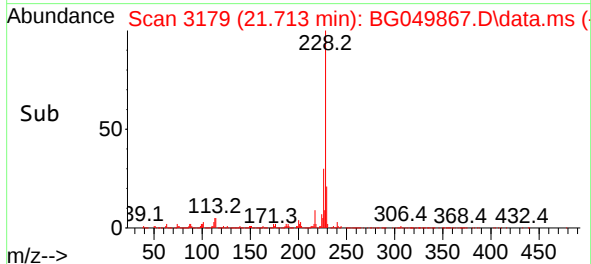
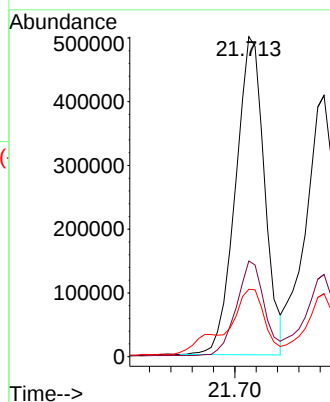
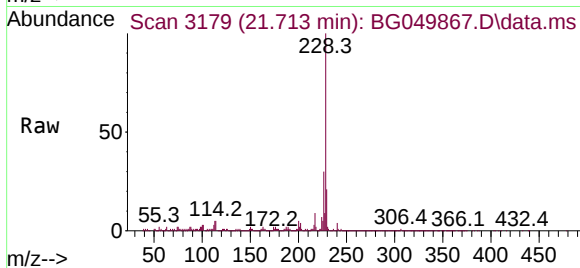
Delta R.T. -0.055 min

Lab File: BG049867.D

Acq: 17 Aug 2021 2:39

Tgt Ion:228	Resp:	941912
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.1 34.7
229	21.0	15.3 22.9

Instrument :
BNA_G
ClientSampleId :
28N



#86

Perylene-d12

Concen: 20.000 ng

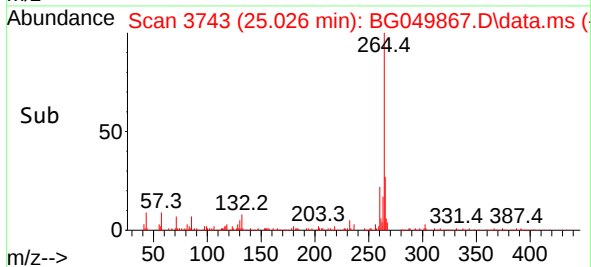
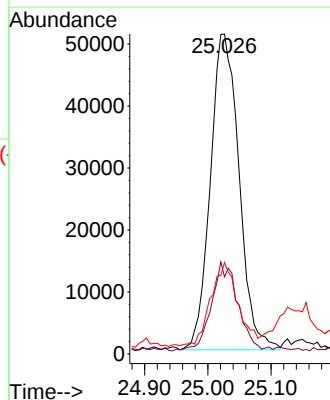
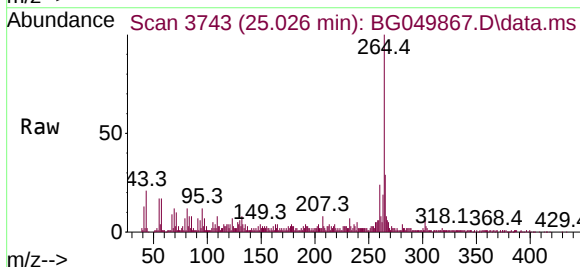
RT: 25.026 min Scan# 3743

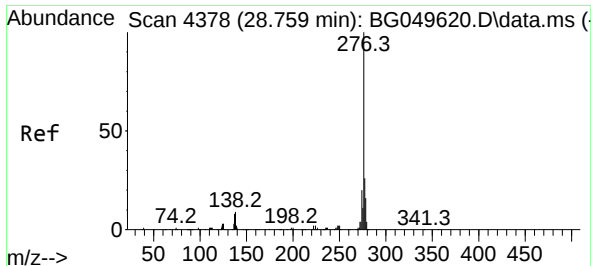
Delta R.T. 0.039 min

Lab File: BG049867.D

Acq: 17 Aug 2021 2:39

Tgt Ion:264	Resp:	160904
Ion Ratio	Lower	Upper
264	100	
260	24.1	19.4 29.2
265	28.6	16.9 25.3

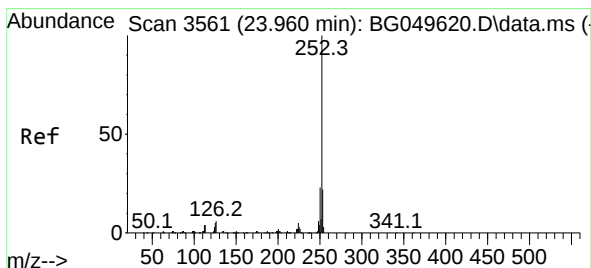
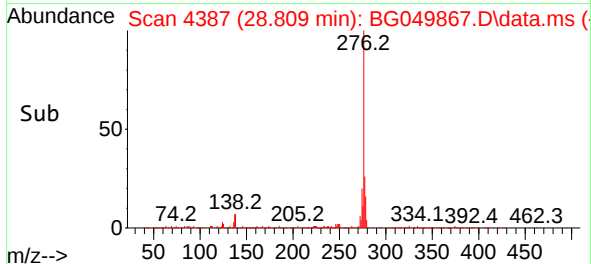
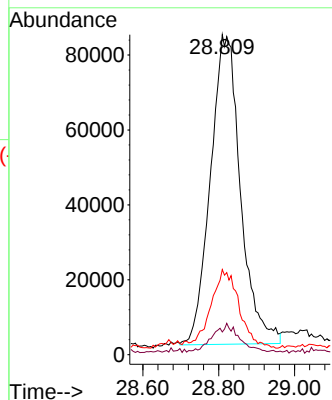
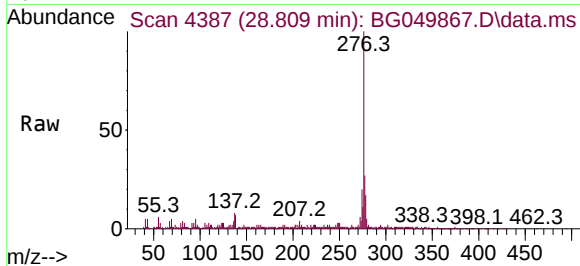




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.216 ng
RT: 28.809 min Scan# 4387
Delta R.T. 0.074 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

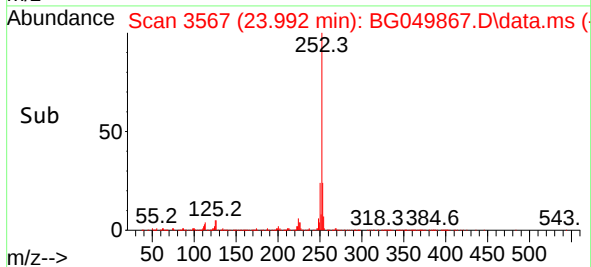
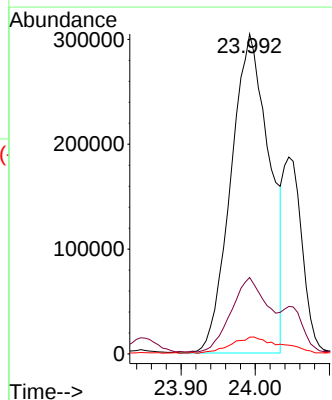
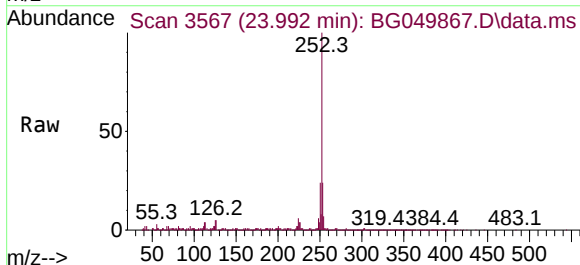
Instrument :
BNA_G
ClientSampled :
28N

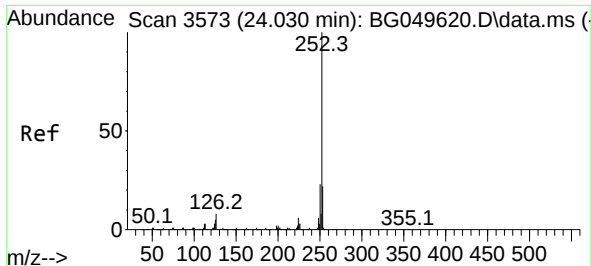
Tgt Ion:276 Resp: 455062
Ion Ratio Lower Upper
276 100
138 7.7 5.1 7.7#
277 24.2 19.8 29.6



#88
Benzo(b)fluoranthene
Concen: 104.127 ng
RT: 23.992 min Scan# 3567
Delta R.T. 0.039 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:252 Resp: 1098848
Ion Ratio Lower Upper
252 100
253 23.9 16.2 24.4
125 5.3 3.0 4.4#

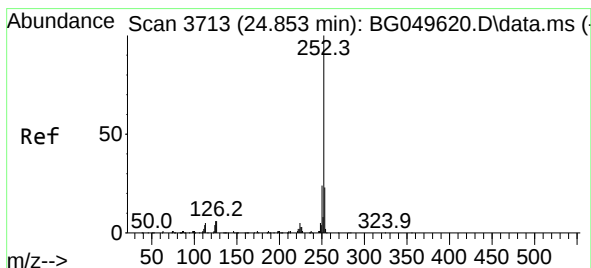
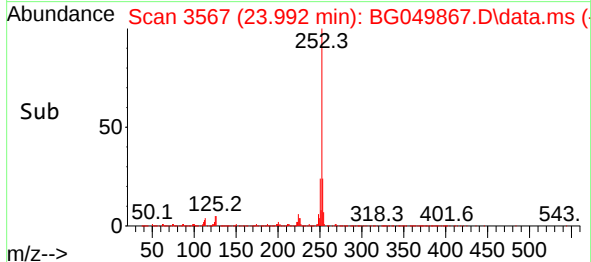
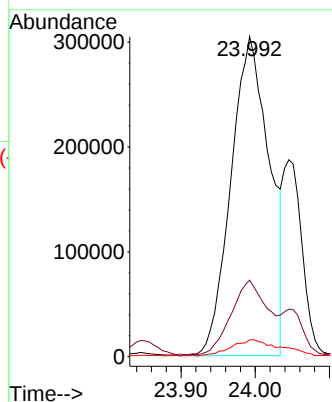
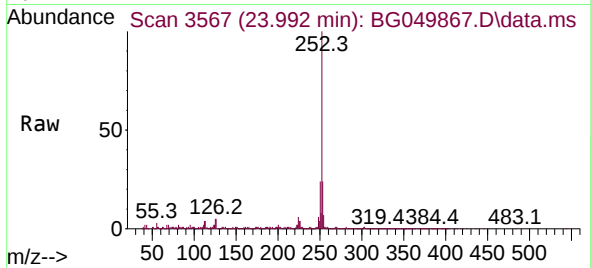




#89
Benzo(k)fluoranthene
Concen: 111.632 ng
RT: 23.992 min Scan# 3567
Delta R.T. -0.026 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

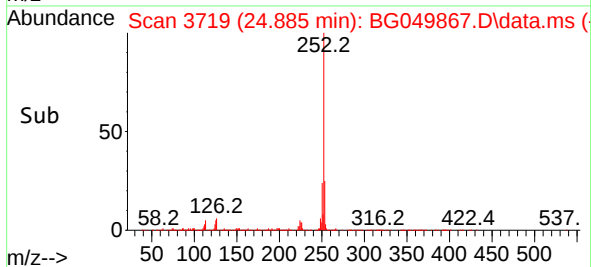
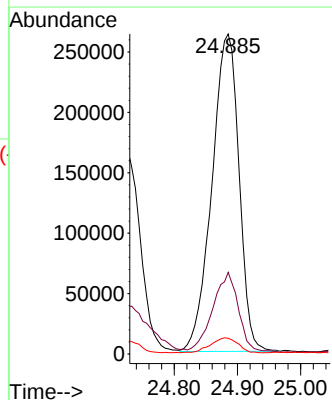
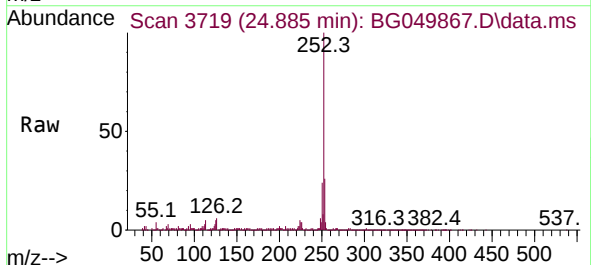
Instrument :
BNA_G
ClientSampled :
28N

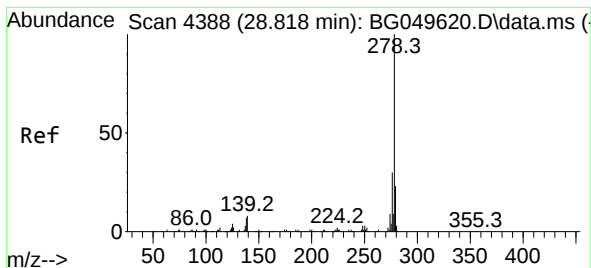
Tgt Ion:252 Resp: 1098848
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 5.3 3.1 4.7#



#90
Benzo(a)pyrene
Concen: 81.989 ng
RT: 24.885 min Scan# 3719
Delta R.T. 0.045 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:252 Resp: 783016
Ion Ratio Lower Upper
252 100
253 25.5 16.6 25.0#
125 4.9 3.5 5.3

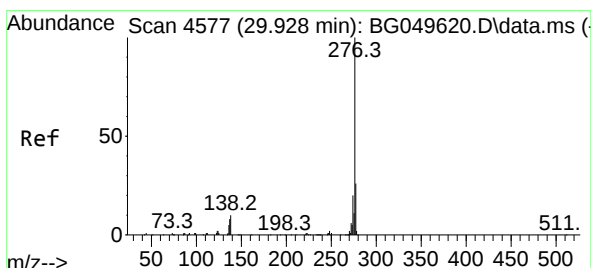
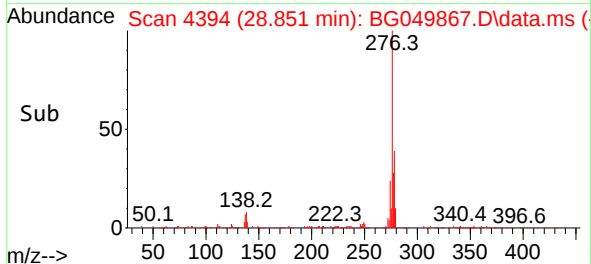
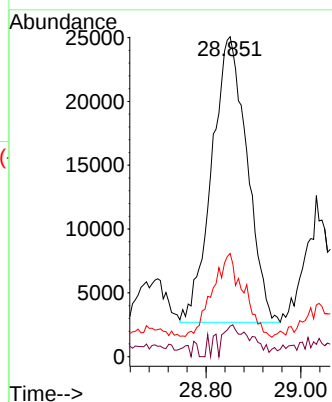
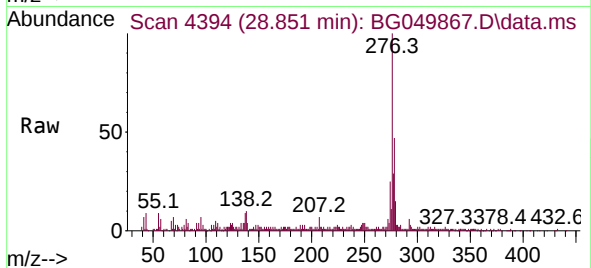




#91
Dibenzo(a,h)anthracene
Concen: 11.805 ng
RT: 28.851 min Scan# 4394
Delta R.T. 0.051 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Instrument :
BNA_G
ClientSampled :
28N

Tgt Ion:278 Resp: 115430
Ion Ratio Lower Upper
278 100
139 9.5 4.6 6.8#
279 32.2 17.9 26.9#



#92
Benzo(g,h,i)perylene
Concen: 44.703 ng
RT: 30.008 min Scan# 4591
Delta R.T. 0.092 min
Lab File: BG049867.D
Acq: 17 Aug 2021 2:39

Tgt Ion:276 Resp: 428257
Ion Ratio Lower Upper
276 100
277 25.1 18.4 27.6
138 9.6 7.0 10.6

