

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040225\
 Data File : BG064151.D
 Acq On : 2 Apr 2025 13:44
 Operator : RC/JU
 Sample : Q1654-01DL2 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RT3407DL2

Quant Time: Apr 02 14:45:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 15:39:19 2025
 Response via : Initial Calibration

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

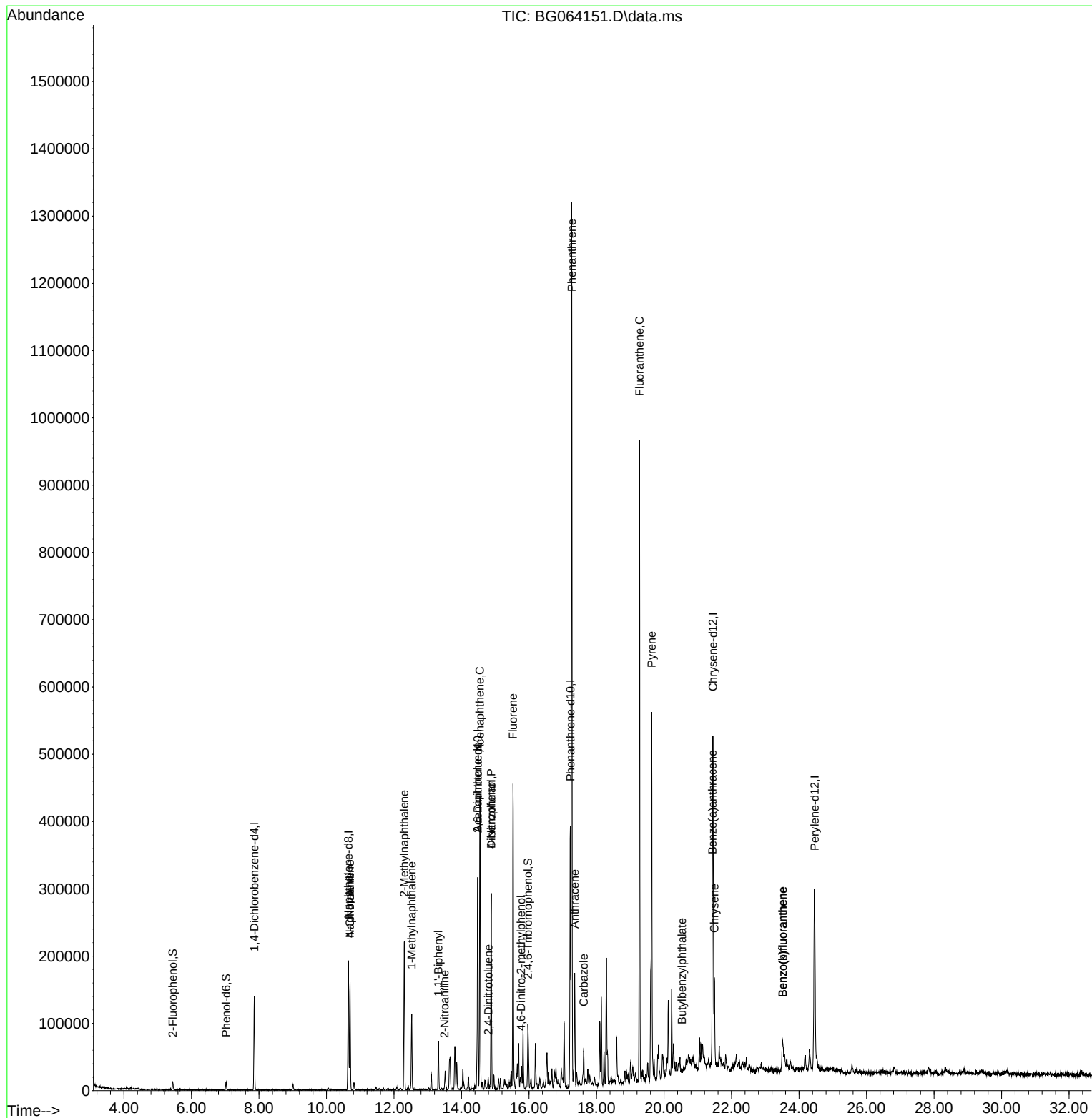
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.858	152	33861	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	150826	20.000	ng	0.00
39) Acenaphthene-d10	14.480	164	102892	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	222699	20.000	ng	0.00
76) Chrysene-d12	21.448	240	244048	20.000	ng	-0.01
86) Perylene-d12	24.462	264	261350	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.443	112	4666	2.152	ng	0.00
7) Phenol-d6	7.024	99	6447	2.185	ng	0.00
23) Nitrobenzene-d5	9.010	82	3972	1.455	ng	0.00
42) 2,4,6-Tribromophenol	15.966	330	2766	2.418	ng	0.00
45) 2-Fluorobiphenyl	13.105	172	11256	1.661	ng	-0.01
79) Terphenyl-d14	19.838	244	20525	1.701	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.696	128	120173	14.776	ng	97
33) 4-Chloroaniline	10.696	127	17892	6.019	ng	# 41
37) 2-Methylnaphthalene	12.306	142	100029	17.422	ng	93
38) 1-Methylnaphthalene	12.523	142	47908	8.517	ng	100
46) 1,1'-Biphenyl	13.317	154	32130	4.133	ng	98
48) 2-Nitroaniline	13.499	65	59	3.247	ng	# 11
51) 2,6-Dinitrotoluene	14.480	165	18425	14.478	ng	# 17
52) Acenaphthene	14.545	154	150201	24.958	ng	98
55) Dibenzofuran	14.879	168	168378	17.270	ng	98
56) 4-Nitrophenol	14.879	139	66043	53.644	ng	# 1
57) 2,4-Dinitrotoluene	14.797	165	1020	4.089	ng	# 31
58) Fluorene	15.526	166	197784	26.047	ng	98
65) 4,6-Dinitro-2-methylph...	15.767	198	64	8.234	ng	# 23
71) Phenanthrene	17.265	178	776960	65.410	ng	100
72) Anthracene	17.353	178	103461	8.760	ng	97
73) Carbazole	17.617	167	30666	2.781	ng	96
75) Fluoranthene	19.274	202	536840	37.488	ng	98
78) Pyrene	19.633	202	342228	21.754	ng	99
80) Butylbenzylphthalate	20.532	149	227	3.673	ng	# 89
81) Benzo(a)anthracene	21.431	228	99170	6.344	ng	96
83) Chrysene	21.489	228	83348	5.346	ng	98
88) Benzo(b)fluoranthene	23.516	252	47796	3.025	ng	99
89) Benzo(k)fluoranthene	23.516	252	47796	3.015	ng	98

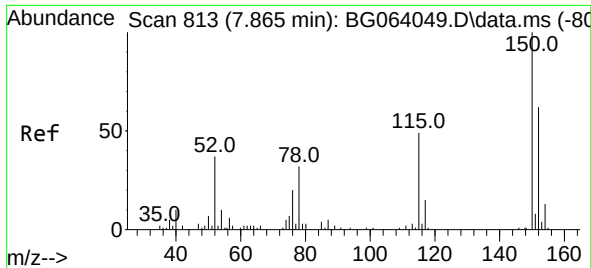
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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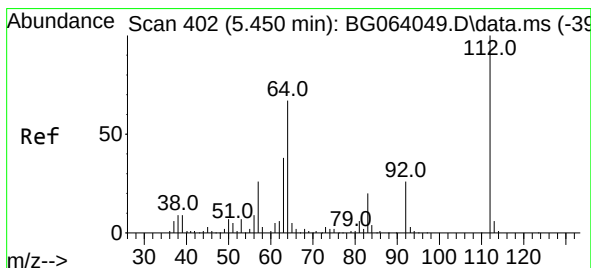
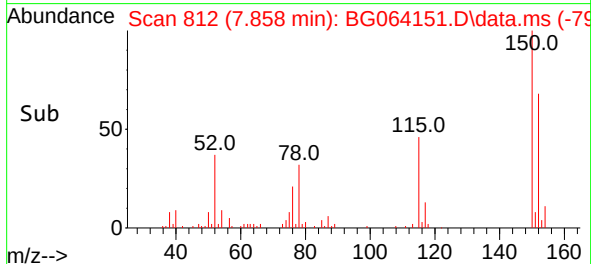
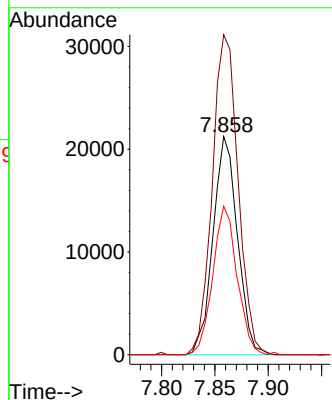
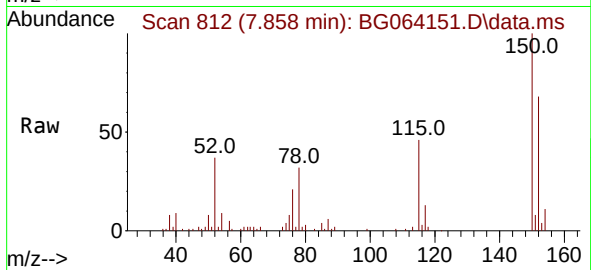




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.858 min Scan# 813
Delta R.T. -0.007 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

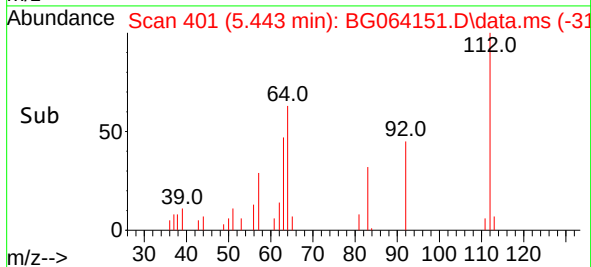
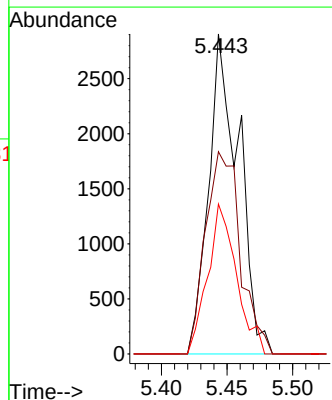
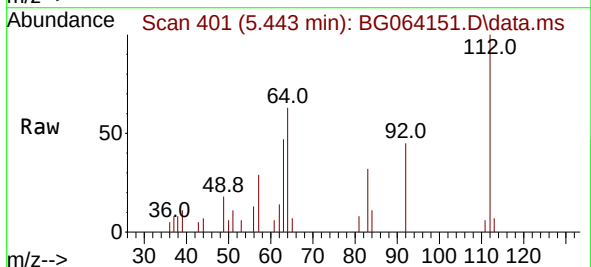
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

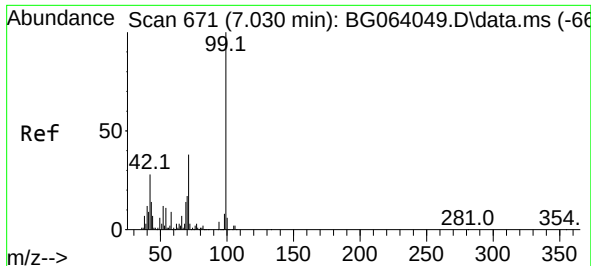
Tgt Ion:152 Resp: 33861
Ion Ratio Lower Upper
152 100
150 146.7 129.2 193.8
115 68.1 63.0 94.6



#5
2-Fluorophenol
Concen: 2.152 ng
RT: 5.443 min Scan# 401
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:112 Resp: 4666
Ion Ratio Lower Upper
112 100
64 63.2 53.7 80.5
63 46.8 30.2 45.4#

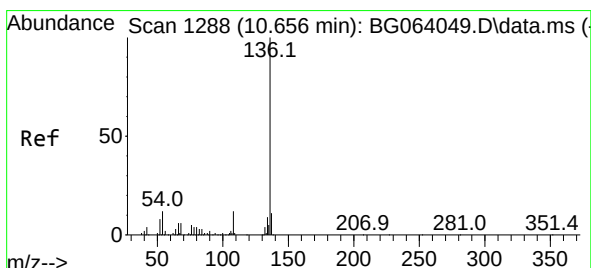
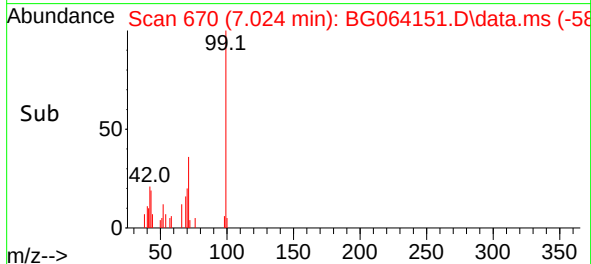
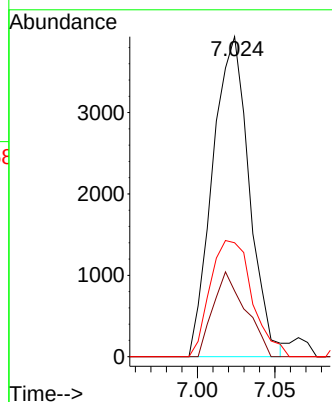
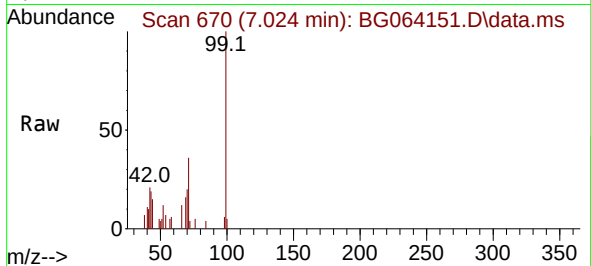




#7
Phenol-d6
Concen: 2.185 ng
RT: 7.024 min Scan# 61
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

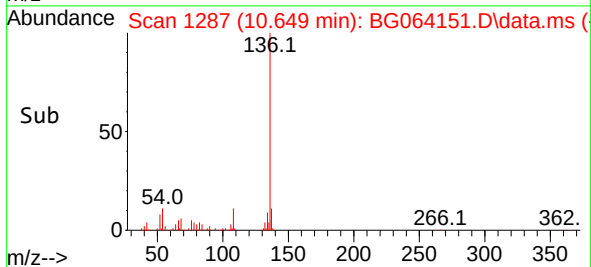
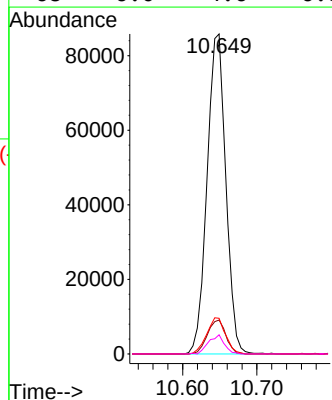
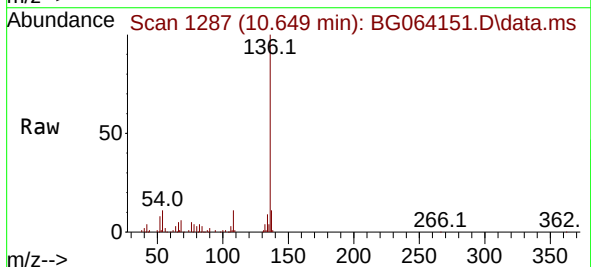
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

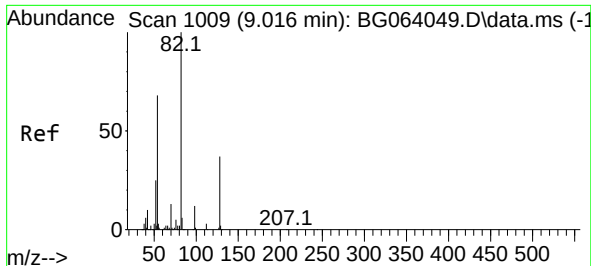
Tgt Ion: 99 Resp: 6447
Ion Ratio Lower Upper
99 100
42 20.5 22.7 34.1#
71 35.6 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:136 Resp: 150826
Ion Ratio Lower Upper
136 100
137 10.6 8.5 12.7
54 11.1 9.9 14.9
68 6.0 4.6 6.8

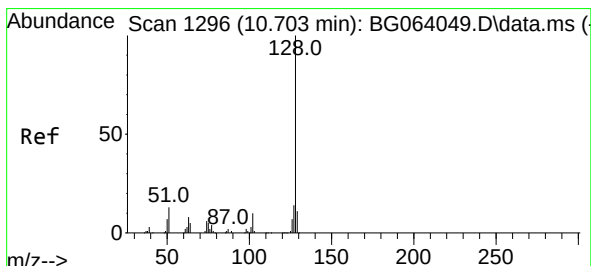
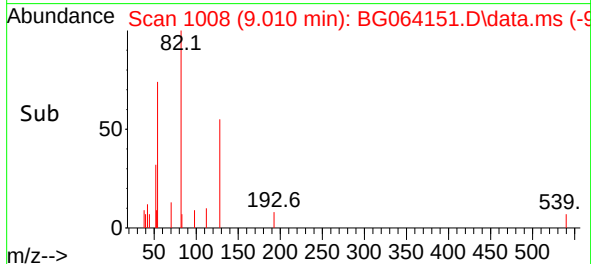
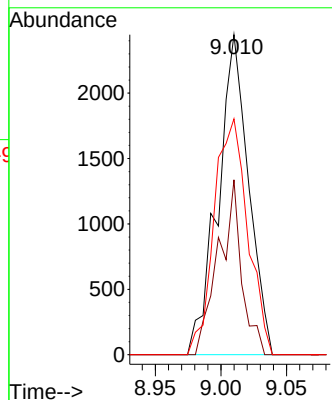
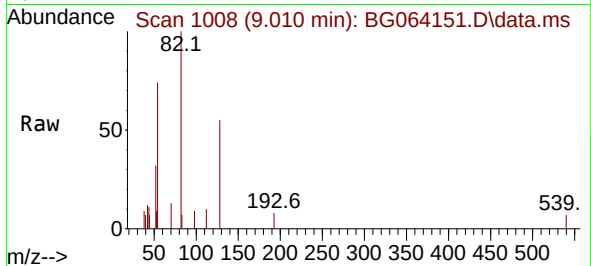




#23
Nitrobenzene-d5
Concen: 1.455 ng
RT: 9.010 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

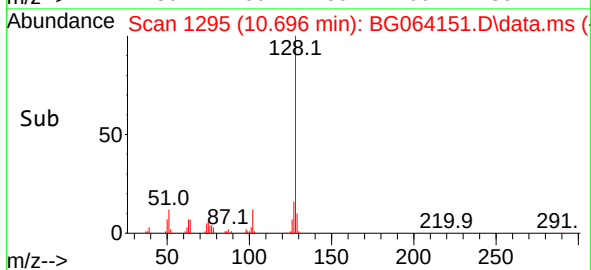
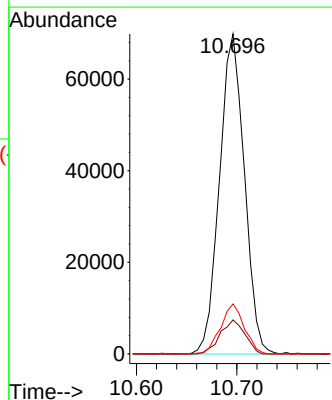
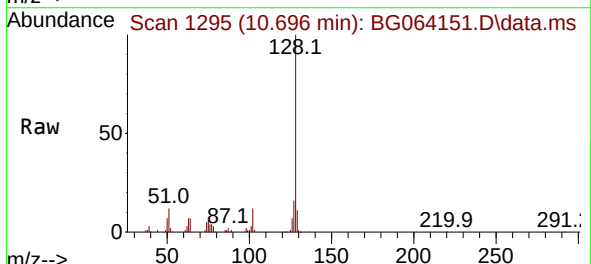
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

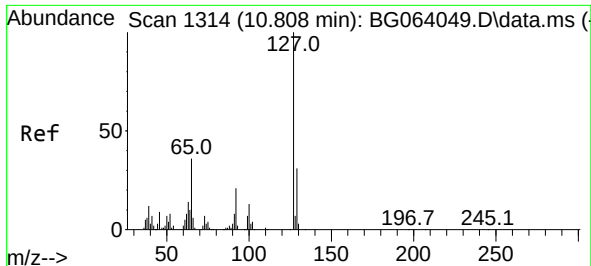
Tgt Ion: 82 Resp: 3972
Ion Ratio Lower Upper
82 100
128 54.6 30.0 45.0#
54 73.7 54.7 82.1



#31
Naphthalene
Concen: 14.776 ng
RT: 10.696 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion: 128 Resp: 120173
Ion Ratio Lower Upper
128 100
129 10.6 8.4 12.6
127 15.6 11.1 16.7

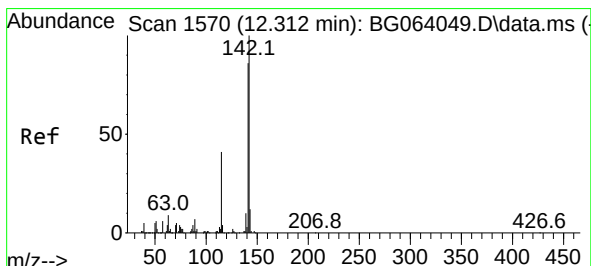
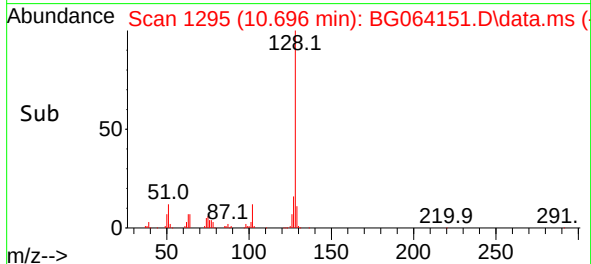
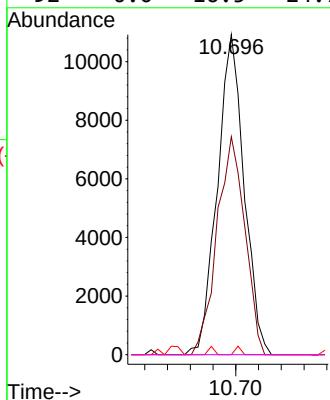
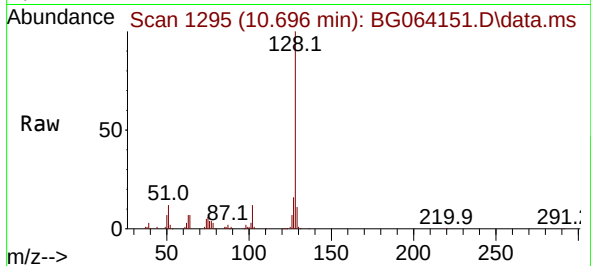




#33
4-Chloroaniline
Concen: 6.019 ng
RT: 10.696 min Scan# 11
Delta R.T. -0.112 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

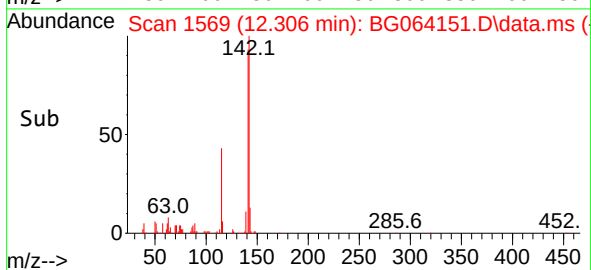
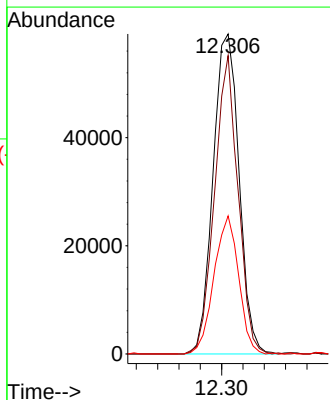
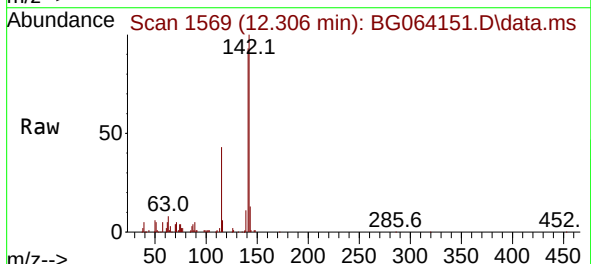
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

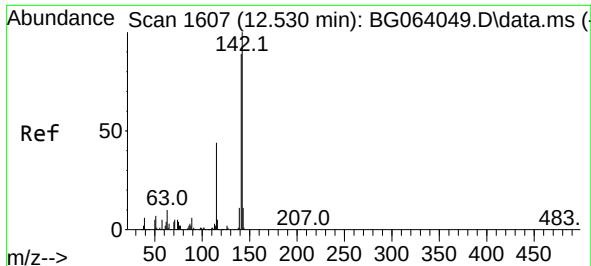
Tgt Ion:127	Resp:	17892
Ion Ratio	Lower	Upper
127	100	
129	68.1	25.0 37.4#
65	0.0	28.5 42.7#
92	0.0	16.5 24.7#



#37
2-Methylnaphthalene
Concen: 17.422 ng
RT: 12.306 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:142	Resp:	100029
Ion Ratio	Lower	Upper
142	100	
141	93.2	68.6 103.0
115	43.2	32.8 49.2

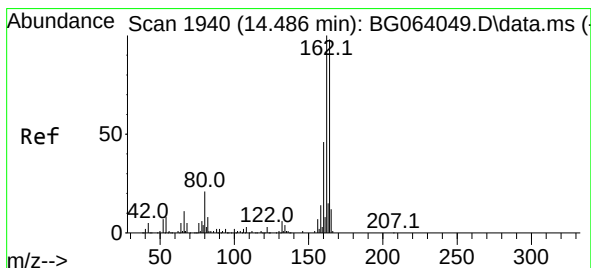
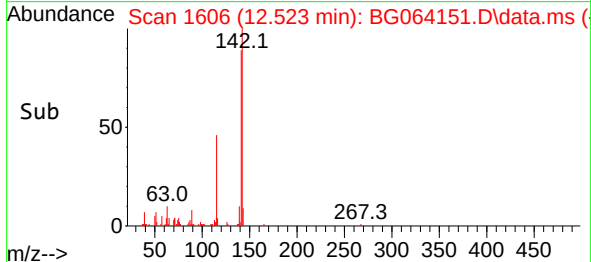
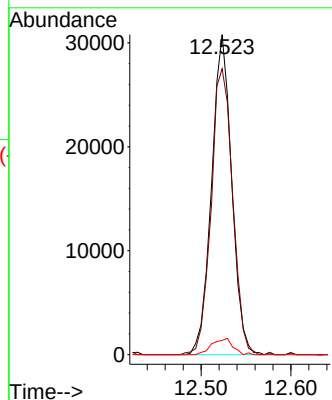
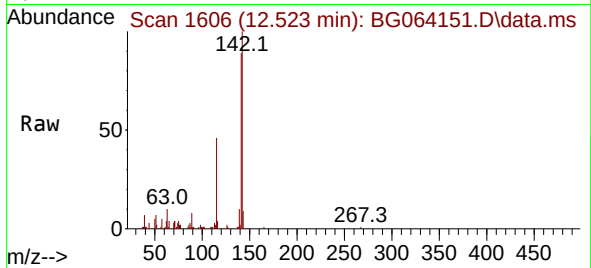




#38
1-Methylnaphthalene
Concen: 8.517 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

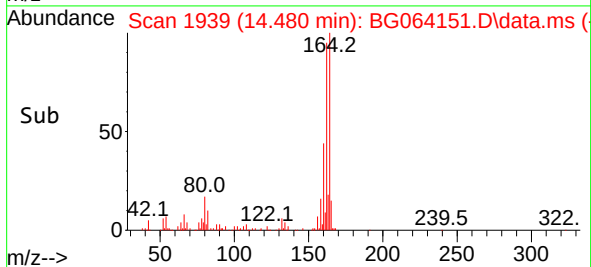
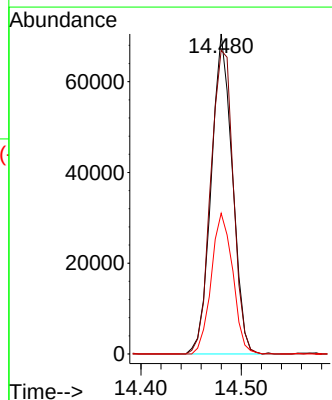
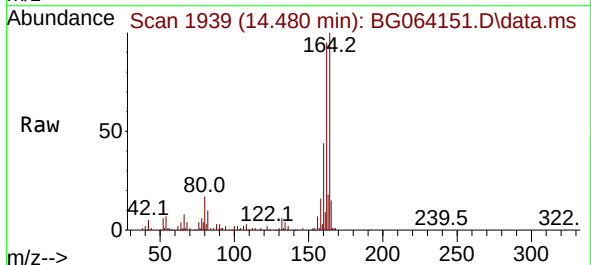
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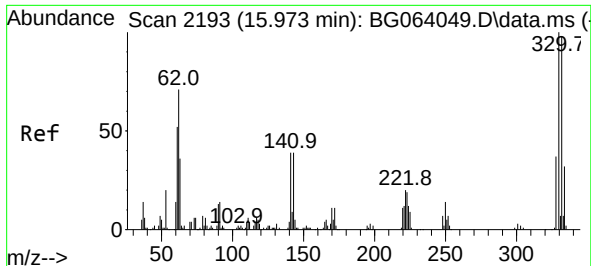
Tgt Ion:142 Resp: 47908
Ion Ratio Lower Upper
142 100
141 89.4 71.2 106.8
116 4.5 3.6 5.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.480 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:164 Resp: 102892
Ion Ratio Lower Upper
164 100
162 94.9 81.4 122.0
160 44.0 37.0 55.6

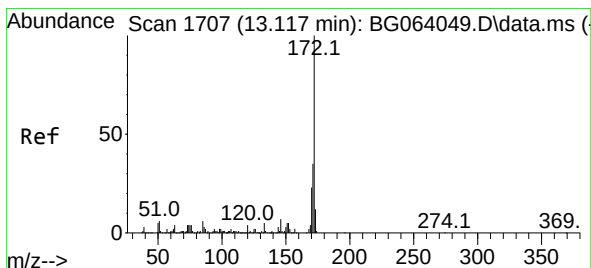
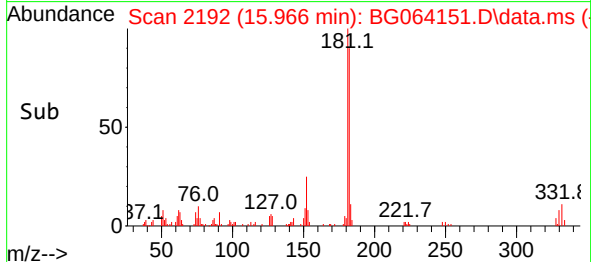
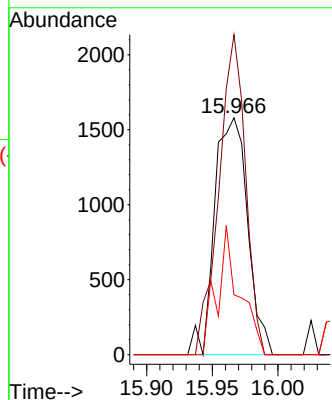
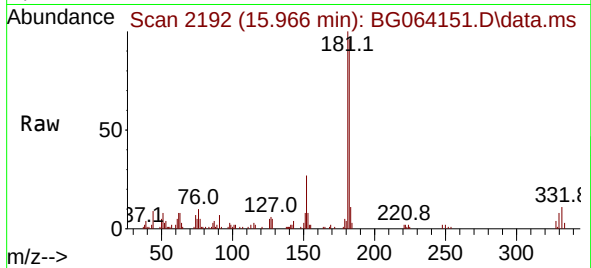




#42
2,4,6-Tribromophenol
Concen: 2.418 ng
RT: 15.966 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

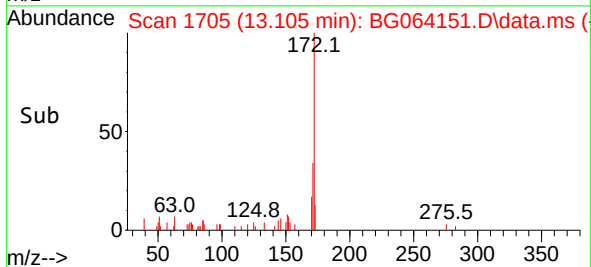
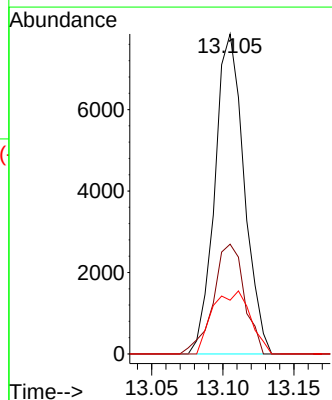
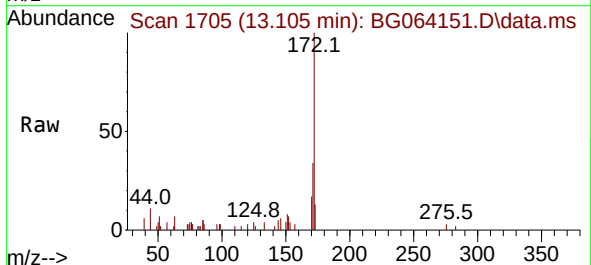
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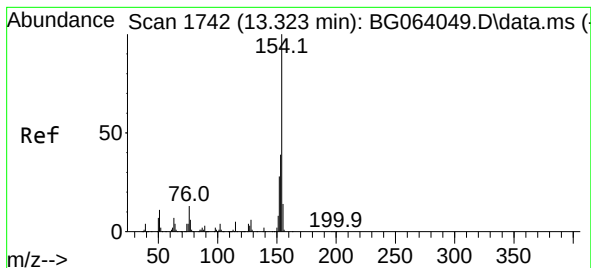
Tgt Ion:330 Resp: 2766
Ion Ratio Lower Upper
330 100
332 108.8 76.7 115.1
141 36.9 29.7 44.5



#45
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 13.105 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:172 Resp: 11256
Ion Ratio Lower Upper
172 100
171 34.3 28.0 42.0
170 16.8 18.7 28.1#





#46

1,1'-Biphenyl

Concen: 4.133 ng

RT: 13.317 min Scan# 1

Delta R.T. -0.006 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

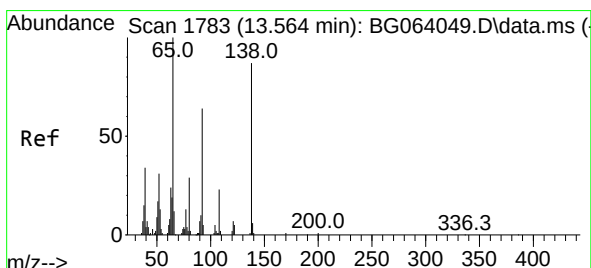
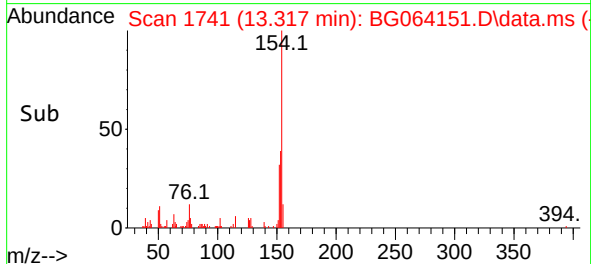
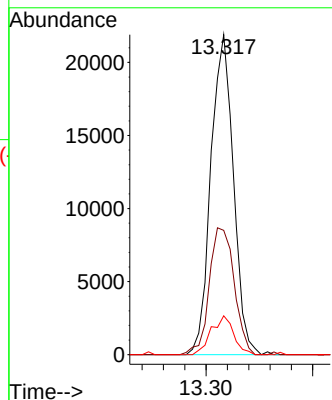
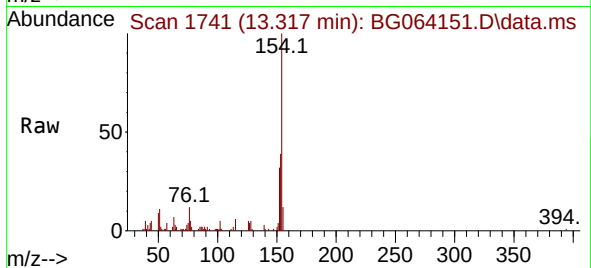
Tgt Ion:154 Resp: 32130

Ion Ratio Lower Upper

154 100

153 38.8 19.5 59.5

76 12.1 0.0 33.5



#48

2-Nitroaniline

Concen: 3.247 ng

RT: 13.499 min Scan# 1772

Delta R.T. -0.065 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

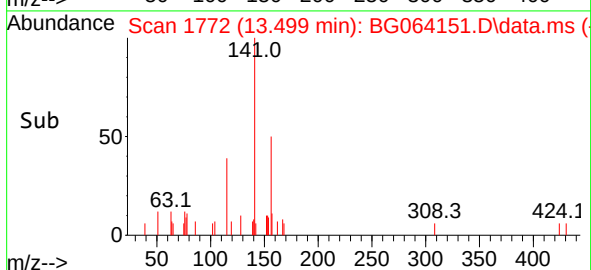
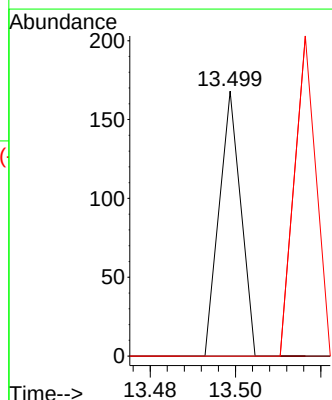
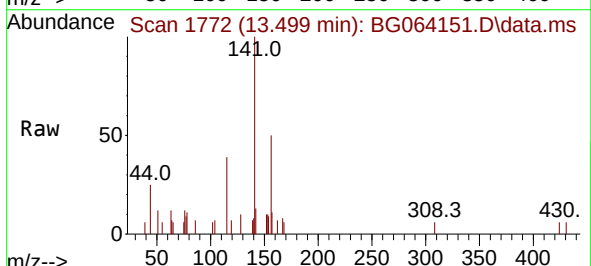
Tgt Ion: 65 Resp: 59

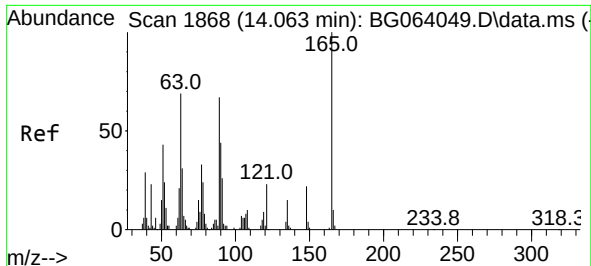
Ion Ratio Lower Upper

65 100

92 0.0 51.2 76.8#

138 0.0 69.4 104.2#

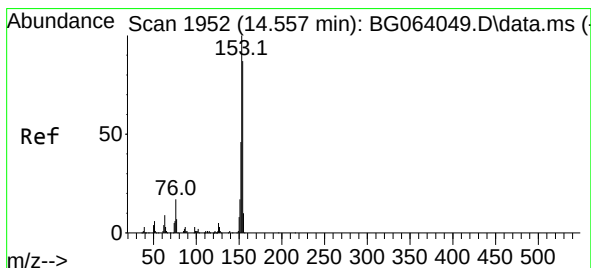
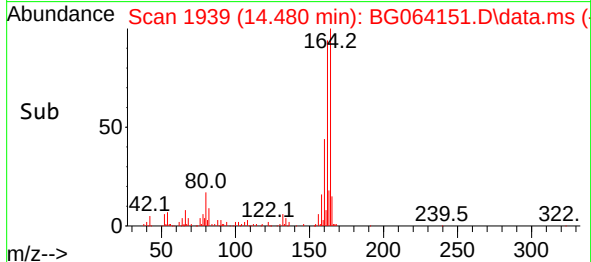
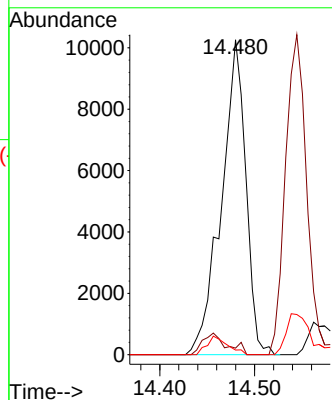
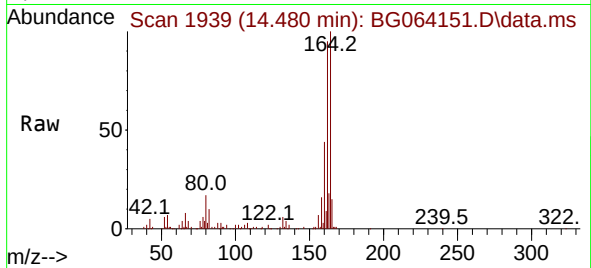




#51
2,6-Dinitrotoluene
Concen: 14.478 ng
RT: 14.480 min Scan# 1939
Delta R.T. 0.417 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

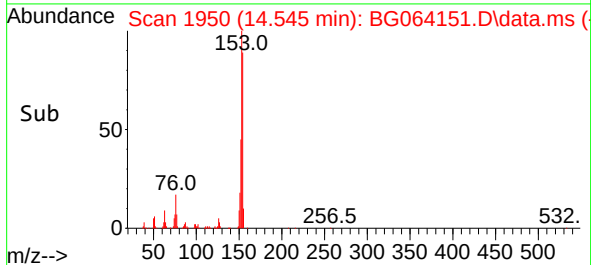
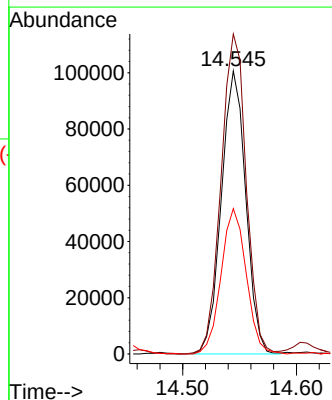
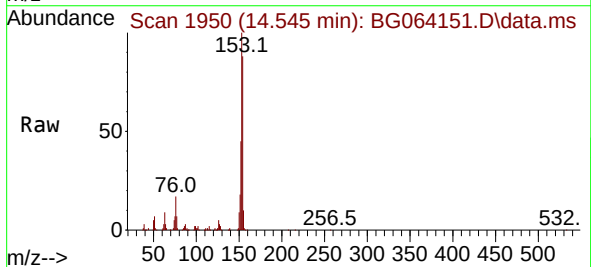
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

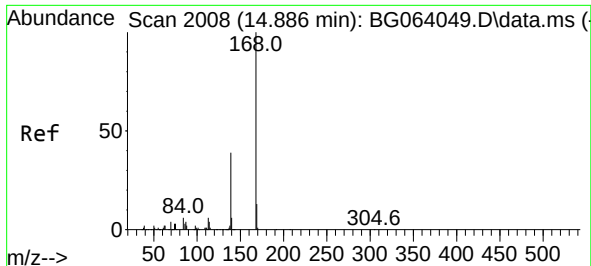
Tgt Ion:165 Resp: 18425
Ion Ratio Lower Upper
165 100
63 2.1 56.7 85.1#
89 1.5 53.7 80.5#



#52
Acenaphthene
Concen: 24.958 ng
RT: 14.545 min Scan# 1950
Delta R.T. -0.012 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:154 Resp: 150201
Ion Ratio Lower Upper
154 100
153 113.1 91.6 137.4
152 51.3 42.5 63.7

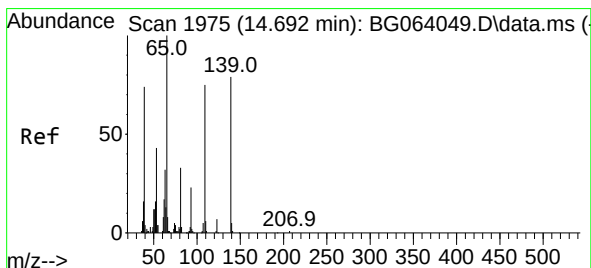
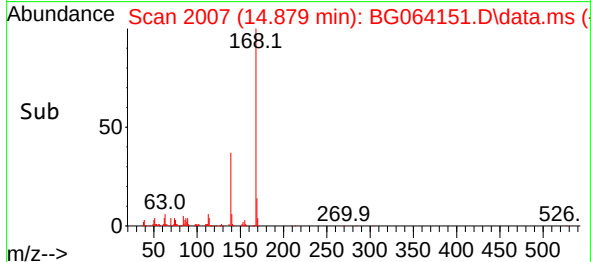
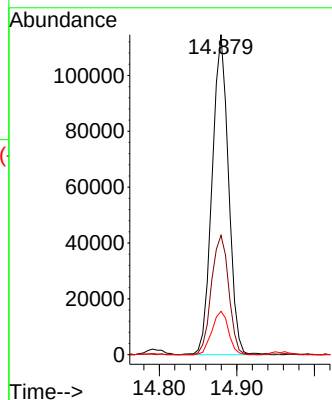
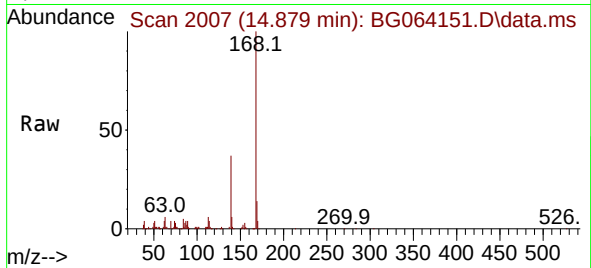




#55
Dibenzofuran
Concen: 17.270 ng
RT: 14.879 min Scan# 20
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

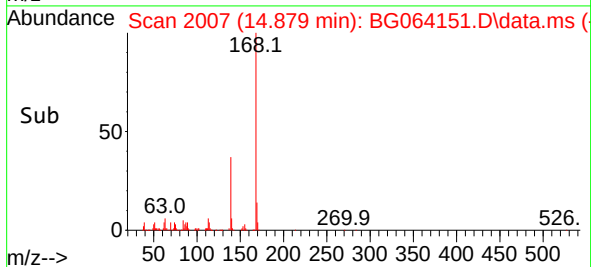
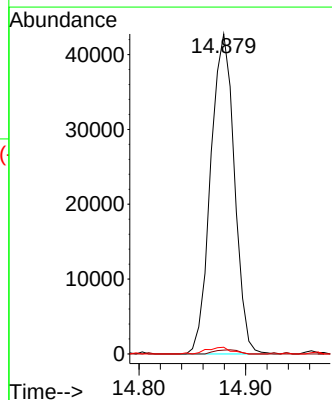
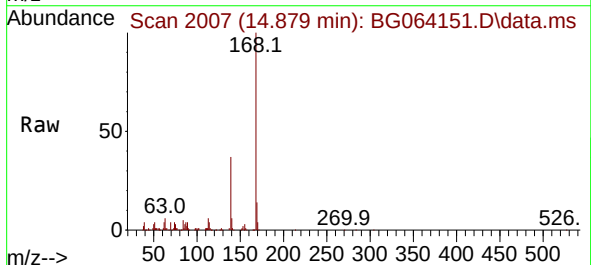
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

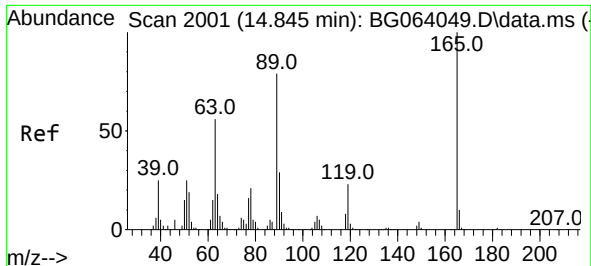
Tgt Ion:168 Resp: 168378
Ion Ratio Lower Upper
168 100
139 37.3 31.1 46.7
169 13.5 10.5 15.7



#56
4-Nitrophenol
Concen: 53.644 ng
RT: 14.879 min Scan# 2007
Delta R.T. 0.187 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:139 Resp: 66043
Ion Ratio Lower Upper
139 100
109 1.2 74.9 114.9#
65 2.1 106.8 146.8#





#57

2,4-Dinitrotoluene

Concen: 4.089 ng

RT: 14.797 min Scan# 1993

Delta R.T. -0.048 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

Tgt Ion:165 Resp: 1020

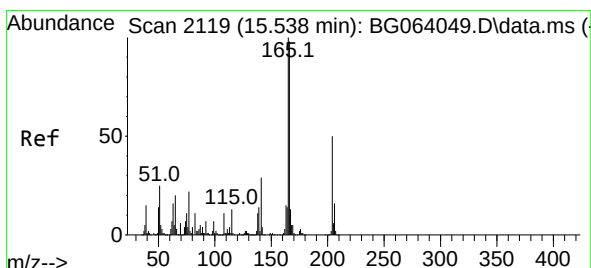
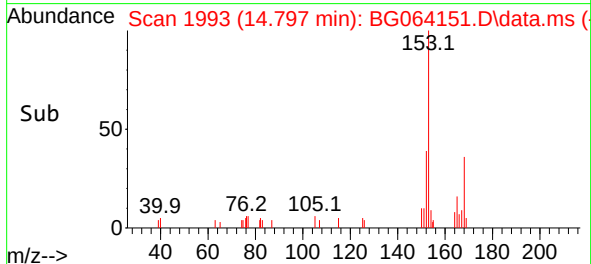
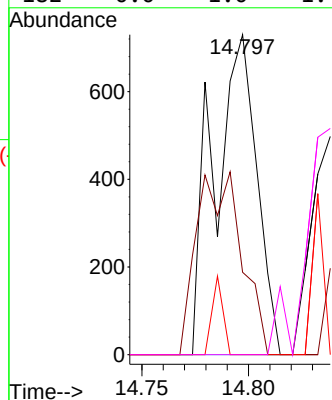
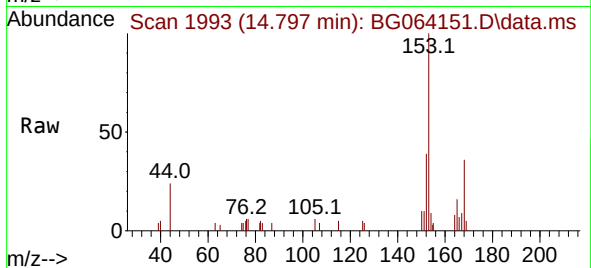
Ion Ratio Lower Upper

165 100

63 25.8 45.0 67.6#

89 0.0 63.1 94.7#

182 0.0 1.0 1.4#



#58

Fluorene

Concen: 26.047 ng

RT: 15.526 min Scan# 2117

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

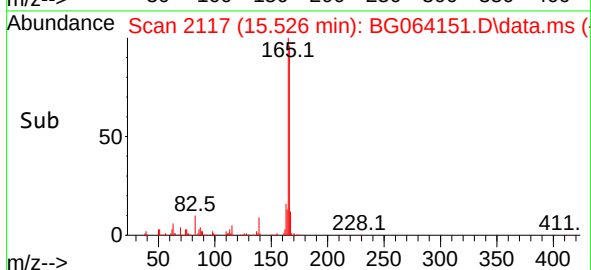
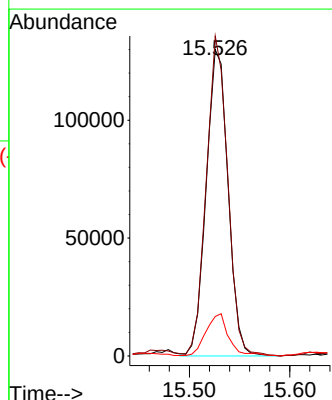
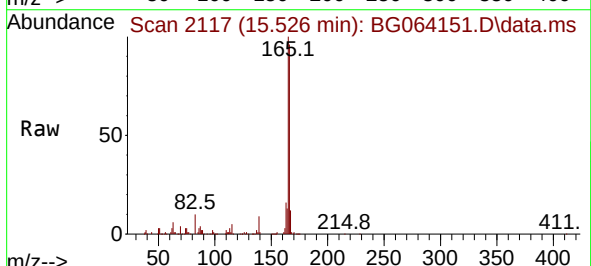
Tgt Ion:166 Resp: 197784

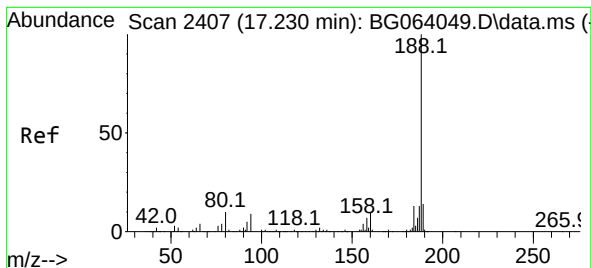
Ion Ratio Lower Upper

166 100

165 104.4 81.8 122.8

167 12.9 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.224 min Scan# 2407

Delta R.T. -0.006 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

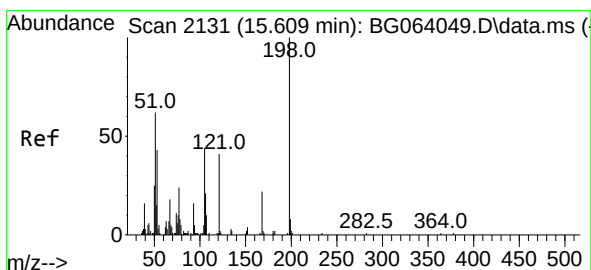
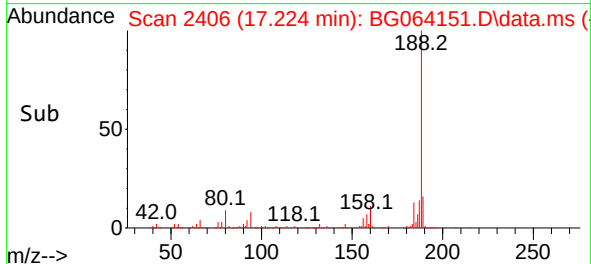
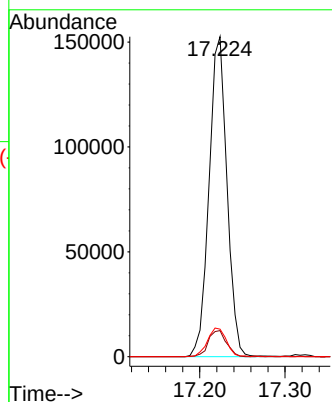
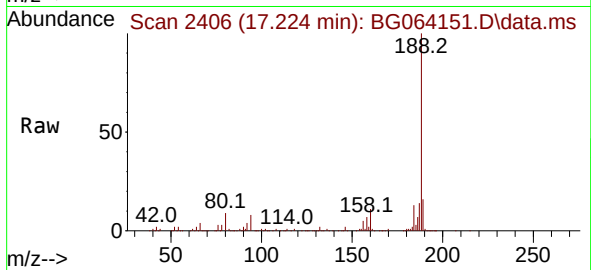
Tgt Ion:188 Resp: 222699

Ion Ratio Lower Upper

188 100

94 8.2 6.9 10.3

80 8.6 8.1 12.1



#65

4,6-Dinitro-2-methylphenol

Concen: 8.234 ng

RT: 15.767 min Scan# 2158

Delta R.T. 0.158 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

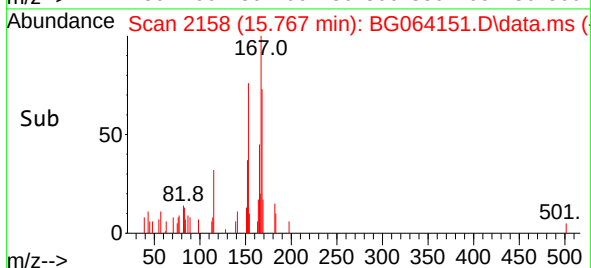
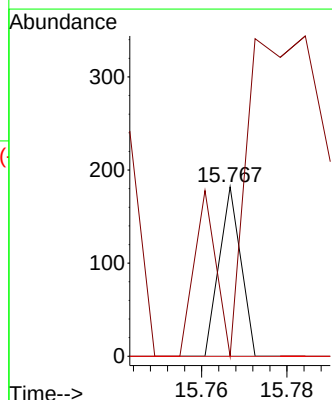
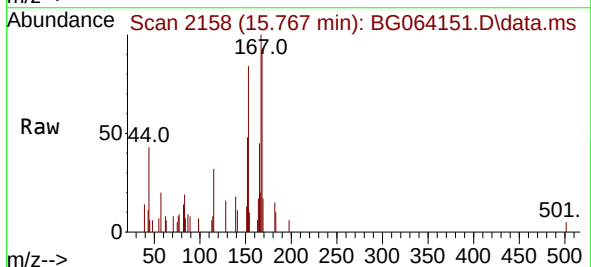
Tgt Ion:198 Resp: 64

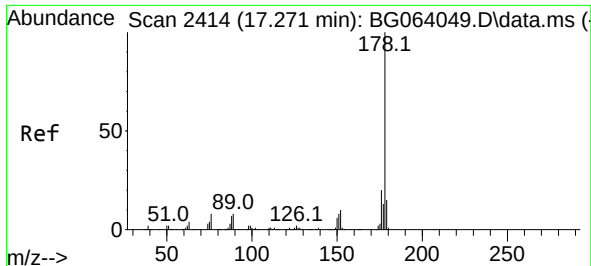
Ion Ratio Lower Upper

198 100

51 0.0 45.6 85.6#

105 0.0 25.3 65.3#

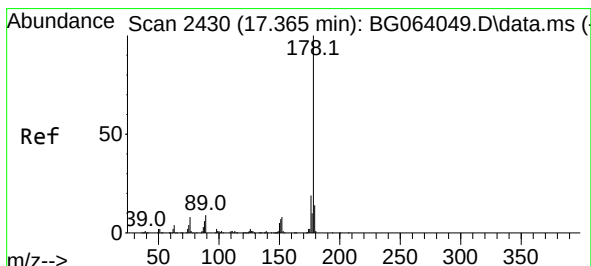
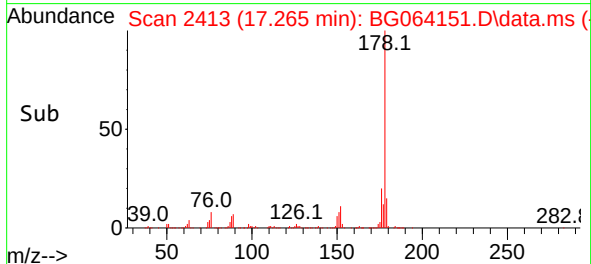
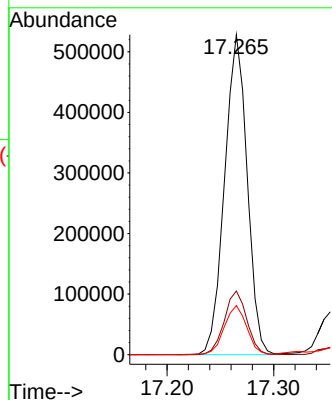
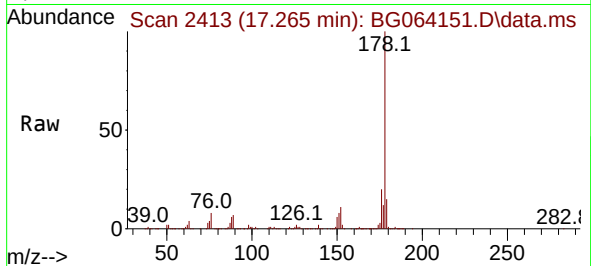




#71
Phenanthrene
Concen: 65.410 ng
RT: 17.265 min Scan# 2414
Delta R.T. -0.006 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

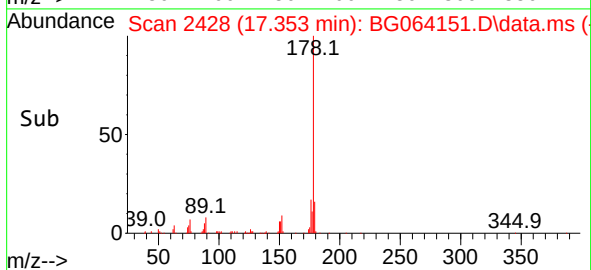
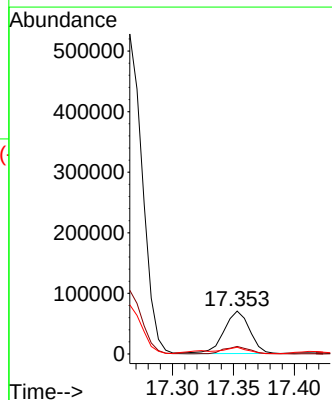
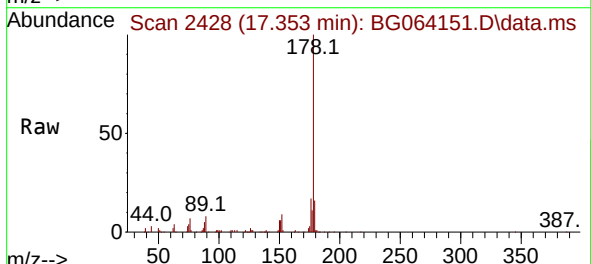
Instrument :
BNA_G
ClientSampleId :
RT3407DL2

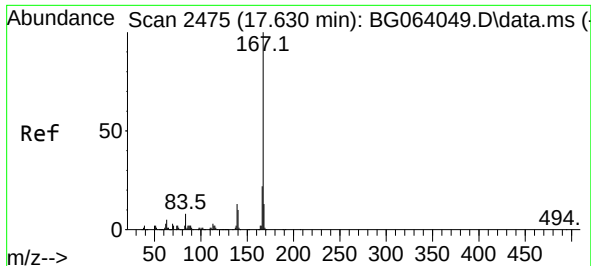
Tgt Ion:178 Resp: 776960
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.4 12.2 18.2



#72
Anthracene
Concen: 8.760 ng
RT: 17.353 min Scan# 2428
Delta R.T. -0.012 min
Lab File: BG064151.D
Acq: 2 Apr 2025 13:44

Tgt Ion:178 Resp: 103461
Ion Ratio Lower Upper
178 100
176 17.4 14.8 22.2
179 15.9 11.5 17.3

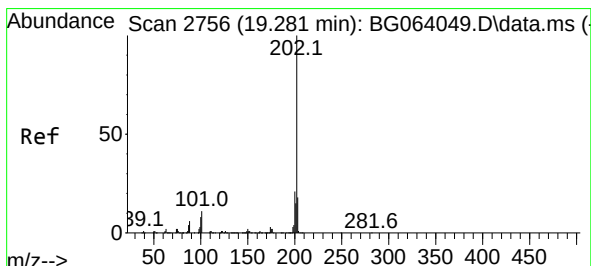
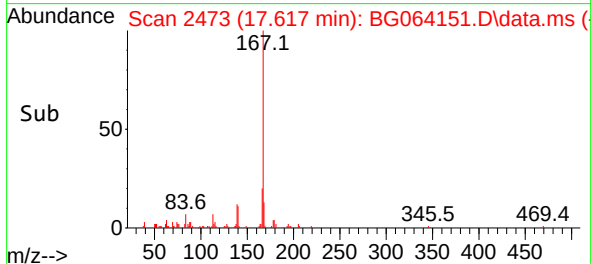
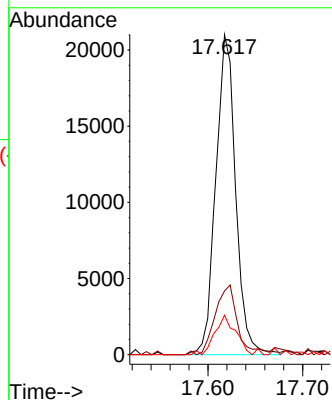
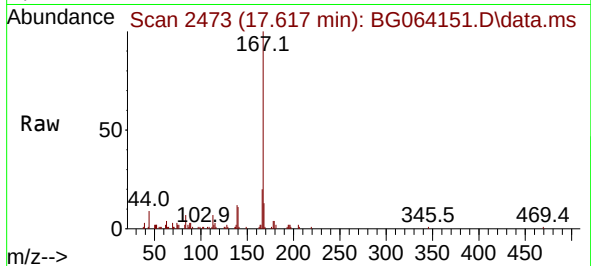




#73
 Carbazole
 Concen: 2.781 ng
 RT: 17.617 min Scan# 24
 Delta R.T. -0.012 min
 Lab File: BG064151.D
 Acq: 2 Apr 2025 13:44

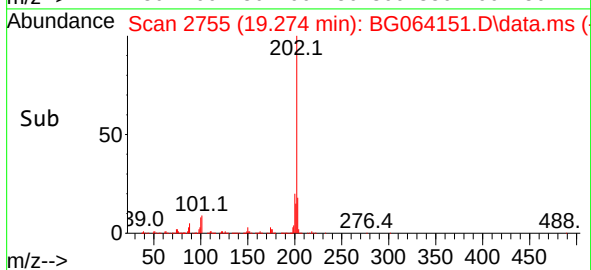
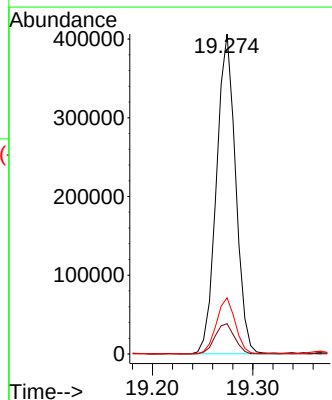
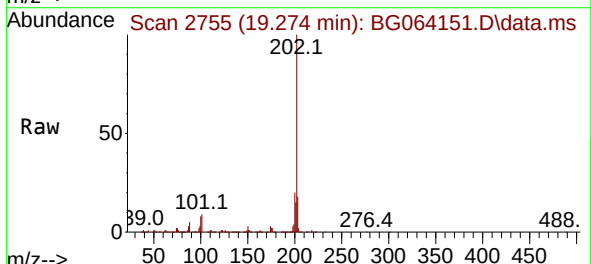
Instrument :
 BNA_G
 ClientSampleId :
 RT3407DL2

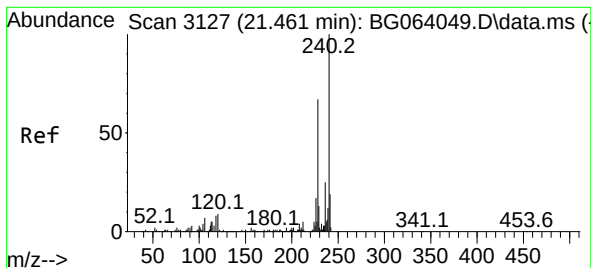
Tgt Ion:167 Resp: 30666
 Ion Ratio Lower Upper
 167 100
 166 19.9 18.0 27.0
 139 12.4 10.6 15.8



#75
 Fluoranthene
 Concen: 37.488 ng
 RT: 19.274 min Scan# 2755
 Delta R.T. -0.006 min
 Lab File: BG064151.D
 Acq: 2 Apr 2025 13:44

Tgt Ion:202 Resp: 536840
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 30.5
 203 17.6 0.0 38.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.448 min Scan# 31

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

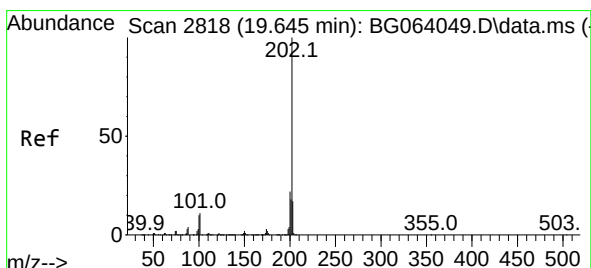
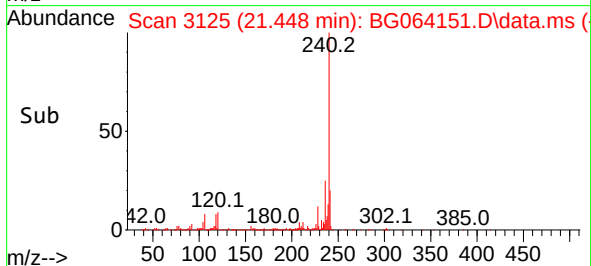
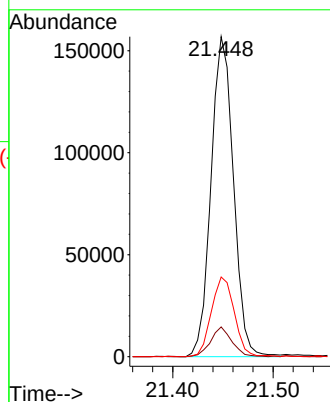
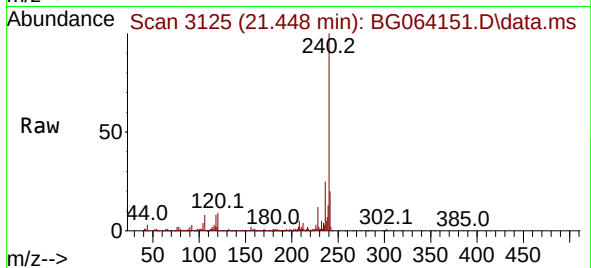
Tgt Ion:240 Resp: 244048

Ion Ratio Lower Upper

240 100

120 9.3 7.2 10.8

236 24.9 20.2 30.2



#78

Pyrene

Concen: 21.754 ng

RT: 19.633 min Scan# 2816

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

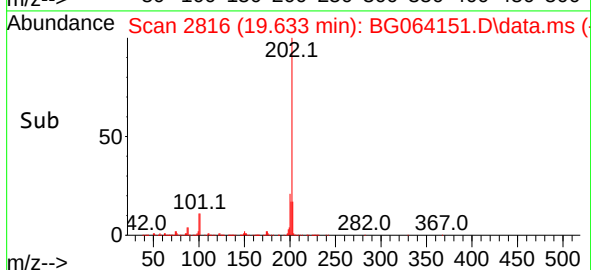
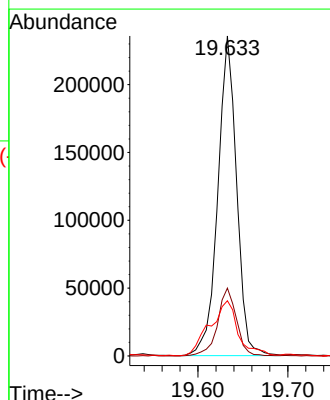
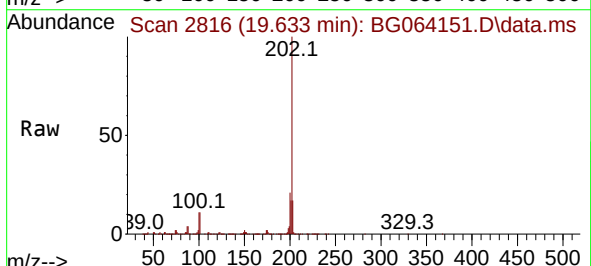
Tgt Ion:202 Resp: 342228

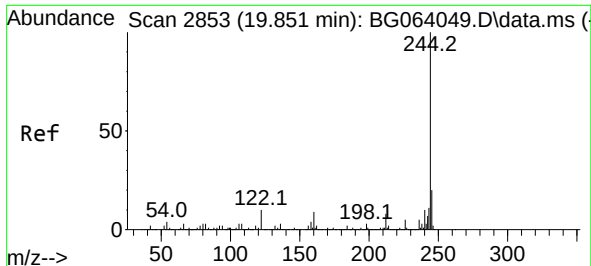
Ion Ratio Lower Upper

202 100

200 21.2 17.3 25.9

203 17.3 13.6 20.4

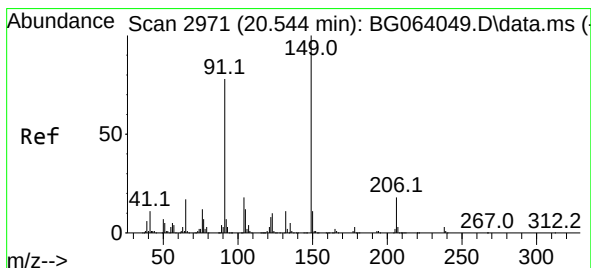
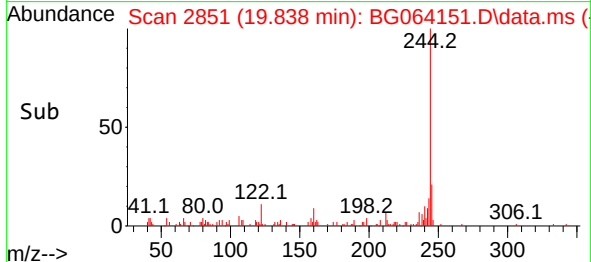
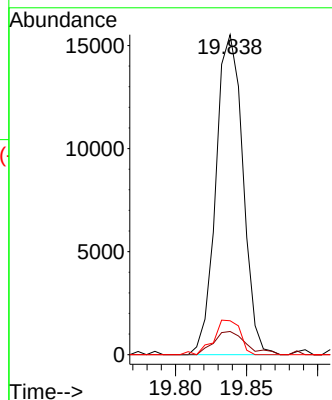
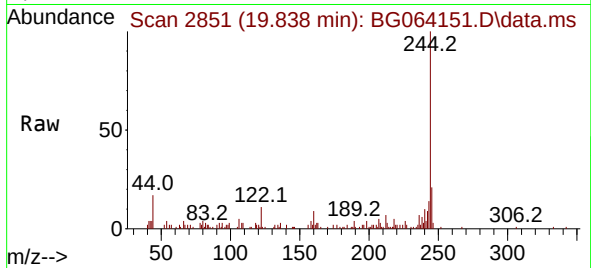




#79
 Terphenyl-d14
 Concen: 1.701 ng
 RT: 19.838 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BG064151.D
 Acq: 2 Apr 2025 13:44

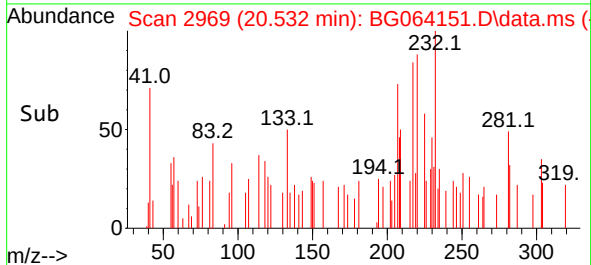
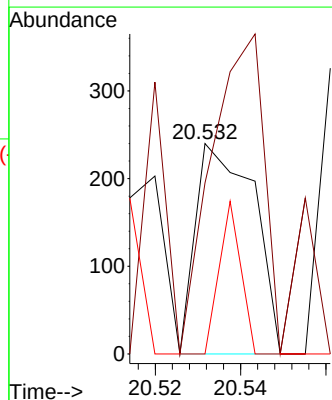
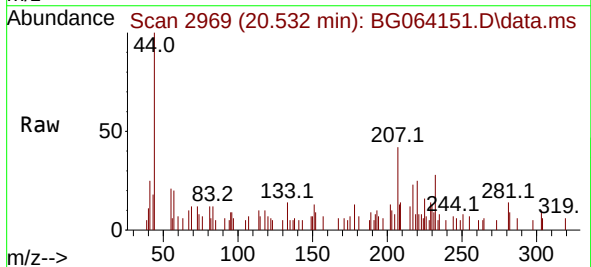
Instrument :
 BNA_G
 ClientSampleId :
 RT3407DL2

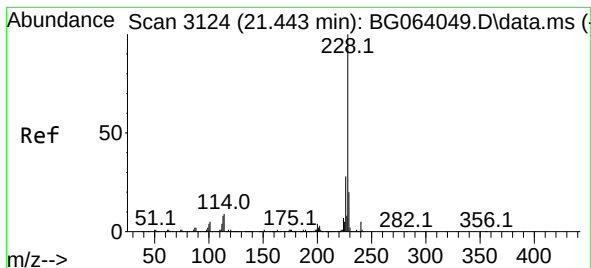
Tgt Ion:244 Resp: 20525
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.2 9.4
 122 10.6 8.0 12.0



#80
 Butylbenzylphthalate
 Concen: 3.673 ng
 RT: 20.532 min Scan# 2969
 Delta R.T. -0.012 min
 Lab File: BG064151.D
 Acq: 2 Apr 2025 13:44

Tgt Ion:149 Resp: 227
 Ion Ratio Lower Upper
 149 100
 91 81.3 62.0 93.0
 206 0.0 14.6 21.8#





#81

Benzo(a)anthracene

Concen: 6.344 ng

RT: 21.431 min Scan# 3122

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

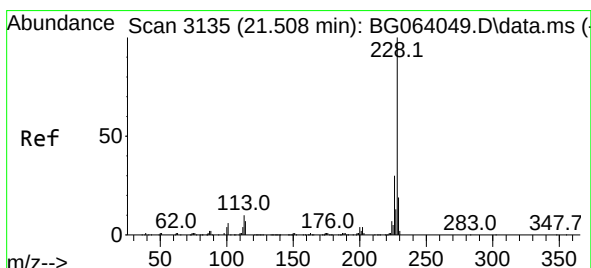
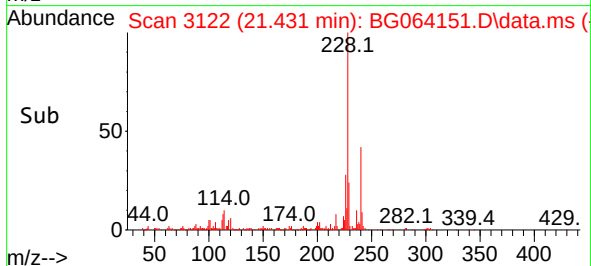
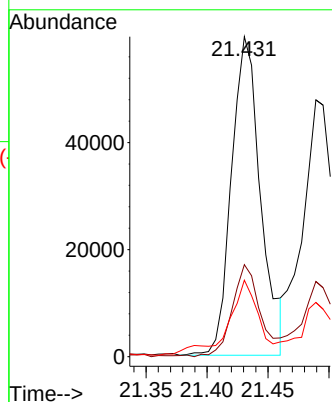
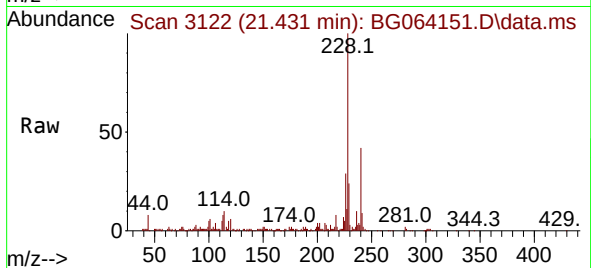
Tgt Ion:228 Resp: 99170

Ion Ratio Lower Upper

228 100

226 28.7 22.2 33.2

229 23.9 16.4 24.6



#83

Chrysene

Concen: 5.346 ng

RT: 21.489 min Scan# 3132

Delta R.T. -0.018 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

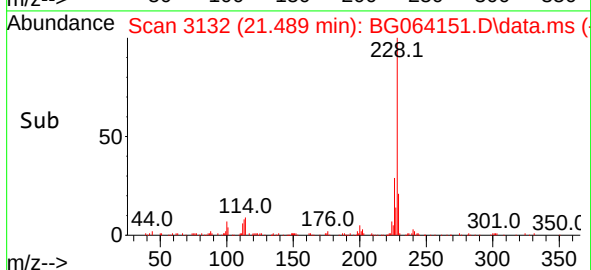
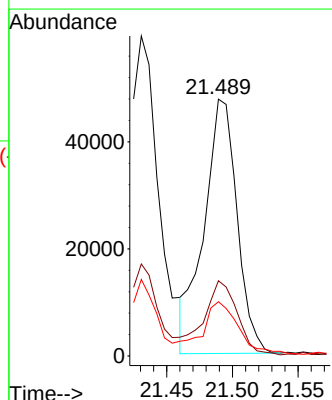
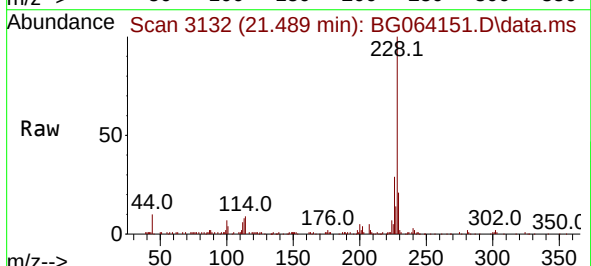
Tgt Ion:228 Resp: 83348

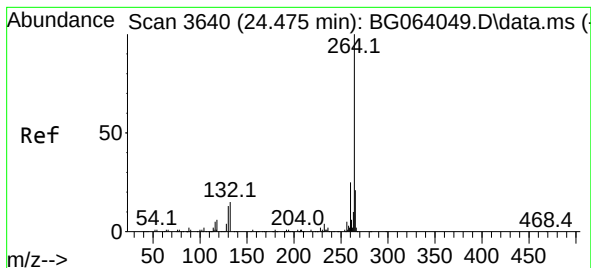
Ion Ratio Lower Upper

228 100

226 29.3 23.9 35.9

229 21.1 15.3 22.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.462 min Scan# 3

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

Instrument :

BNA_G

ClientSampleId :

RT3407DL2

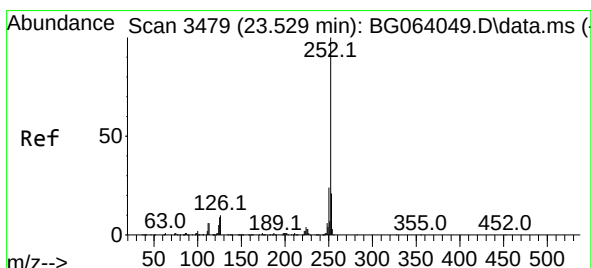
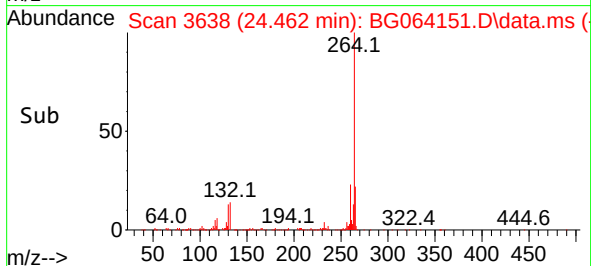
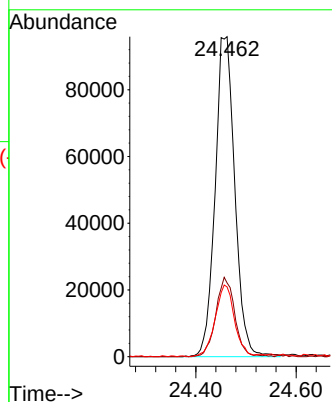
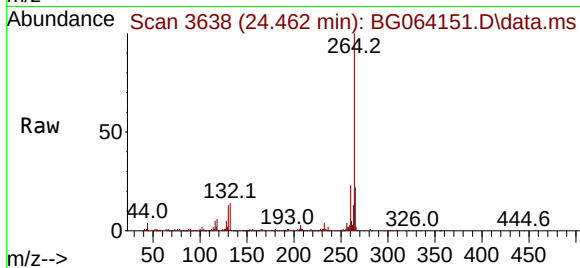
Tgt Ion:264 Resp: 261350

Ion Ratio Lower Upper

264 100

260 23.0 19.6 29.4

265 21.8 16.6 25.0



#88

Benzo(b)fluoranthene

Concen: 3.025 ng

RT: 23.516 min Scan# 3477

Delta R.T. -0.012 min

Lab File: BG064151.D

Acq: 2 Apr 2025 13:44

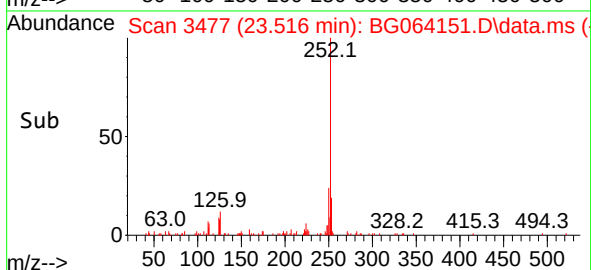
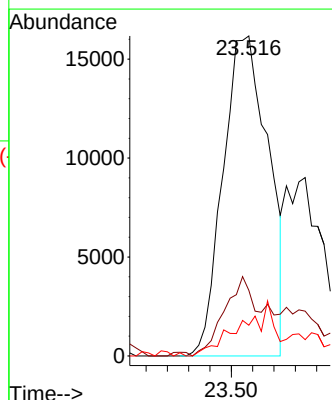
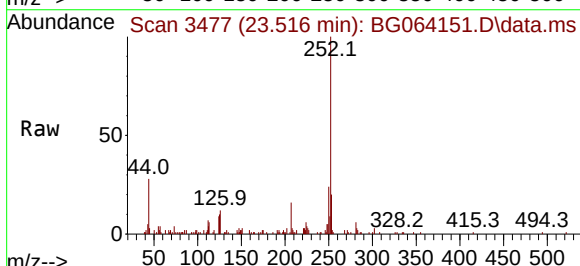
Tgt Ion:252 Resp: 47796

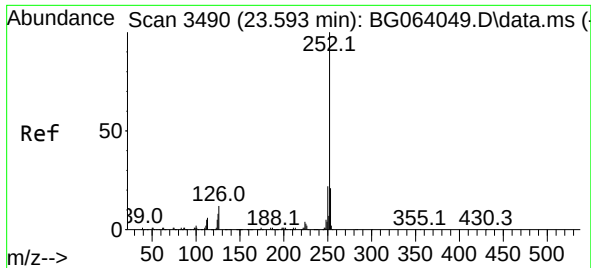
Ion Ratio Lower Upper

252 100

253 20.5 17.0 25.4

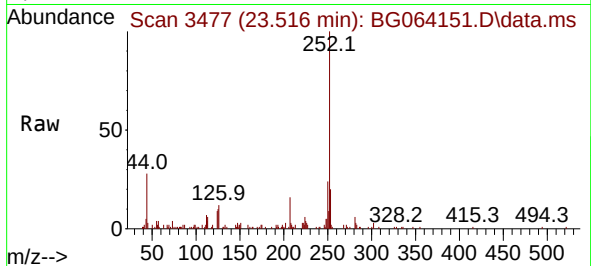
125 9.6 7.4 11.2





#89
 Benzo(k)fluoranthene
 Concen: 3.015 ng
 RT: 23.516 min Scan# 34
 Delta R.T. -0.077 min
 Lab File: BG064151.D
 Acq: 2 Apr 2025 13:44

Instrument :
 BNA_G
 ClientSampleId :
 RT3407DL2



Tgt Ion:252	Resp:	47796
Ion	Ratio	Lower Upper
252	100	
253	20.5	16.8 25.2
125	9.6	6.9 10.3

