

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG110725\
 Data File : BG064724.D
 Acq On : 7 Nov 2025 20:18
 Operator : RC/JU
 Sample : Q3562-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EO-03-110625

Quant Time: Nov 08 00:59:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 03 18:16:26 2025
 Response via : Initial Calibration

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

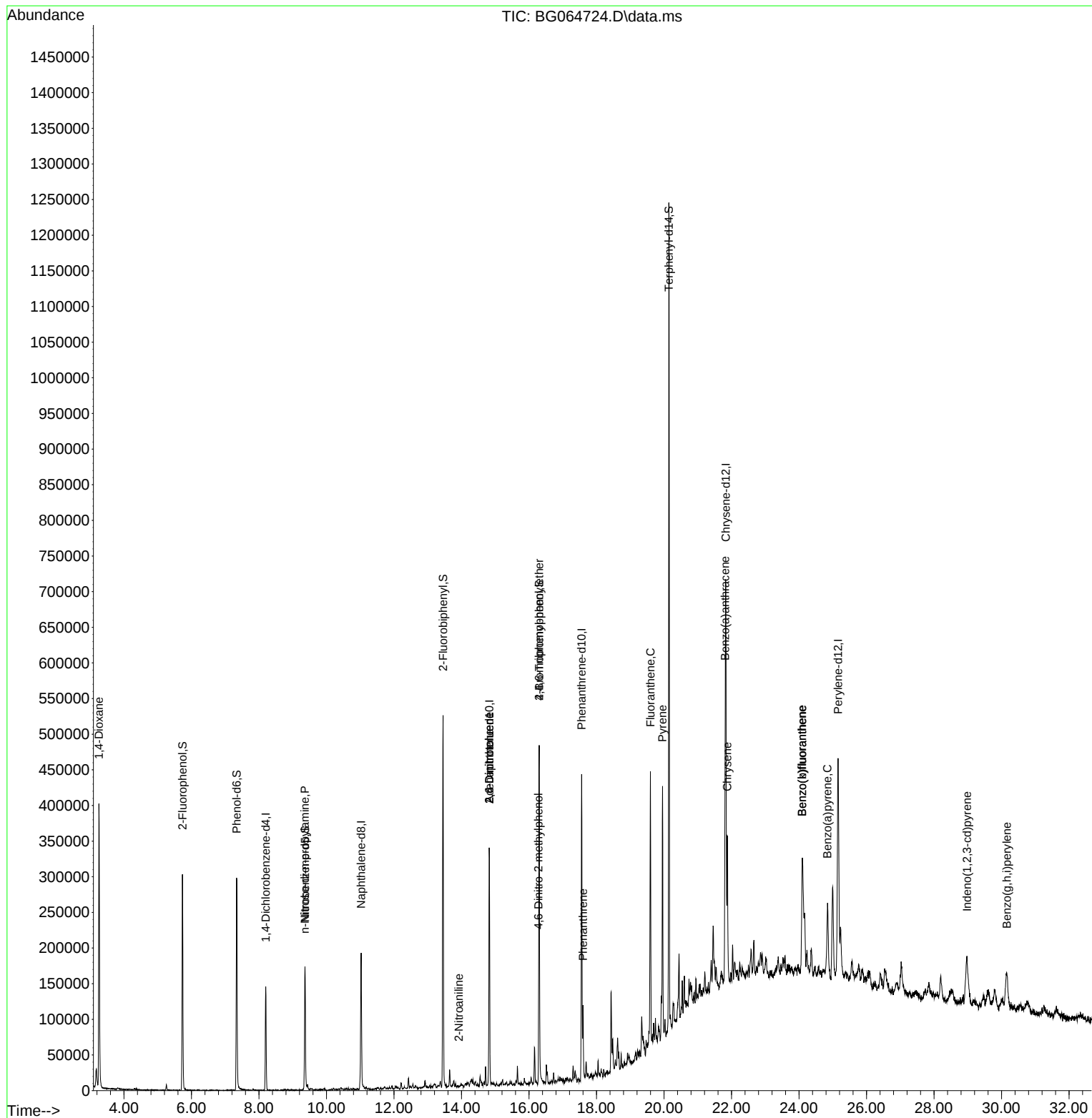
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.199	152	40729	20.000	ng	-0.02
21) Naphthalene-d8	11.025	136	160008	20.000	ng	#-0.02
39) Acenaphthene-d10	14.821	164	123732	20.000	ng	-0.02
64) Phenanthrene-d10	17.559	188	284754	20.000	ng	#-0.02
76) Chrysene-d12	21.830	240	340777	20.000	ng	#-0.03
86) Perylene-d12	25.156	264	382892	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.731	112	128605	53.000	ng	-0.02
7) Phenol-d6	7.335	99	172738	51.878	ng	-0.02
23) Nitrobenzene-d5	9.363	82	107967	40.528	ng	-0.02
42) 2,4,6-Tribromophenol	16.301	330	117680	65.897	ng	-0.02
45) 2-Fluorobiphenyl	13.452	172	298594	36.578	ng	-0.02
79) Terphenyl-d14	20.144	244	633160	35.063	ng	-0.03
Target Compounds						Qvalue
2) 1,4-Dioxane	3.258	88	3277	3.050	ng	# 1
19) n-Nitroso-di-n-propyla...	9.357	70	14381	6.249	ng	# 71
48) 2-Nitroaniline	13.922	65	145	3.286	ng	# 10
51) 2,6-Dinitrotoluene	14.821	165	16033	12.773	ng	# 17
57) 2,4-Dinitrotoluene	14.821	165	16033	9.267	ng	# 20
65) 4,6-Dinitro-2-methylph...	16.284	198	208	5.574	ng	# 6
67) 4-Bromophenyl-phenylether	16.301	248	6949	2.059	ng	# 1
71) Phenanthrene	17.600	178	64807	4.162	ng	99
75) Fluoranthene	19.598	202	249881	12.809	ng	98
78) Pyrene	19.956	202	230435	10.350	ng	100
81) Benzo(a)anthracene	21.813	228	170156	7.531	ng	98
83) Chrysene	21.877	228	166648	7.751	ng	97
87) Indeno(1,2,3-cd)pyrene	28.975	276	129484	4.597	ng	# 95
88) Benzo(b)fluoranthene	24.092	252	235153	10.016	ng	97
89) Benzo(k)fluoranthene	24.092	252	235153	10.009	ng	95
90) Benzo(a)pyrene	24.844	252	118207	5.477	ng	93
92) Benzo(g,h,i)perylene	30.156	276	125222	5.728	ng	96

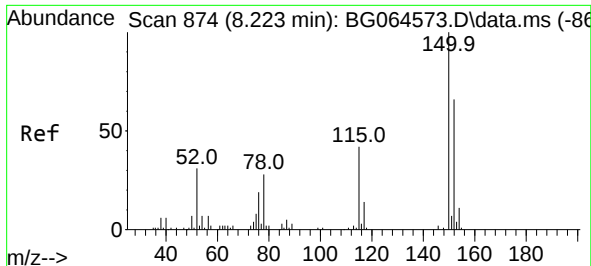
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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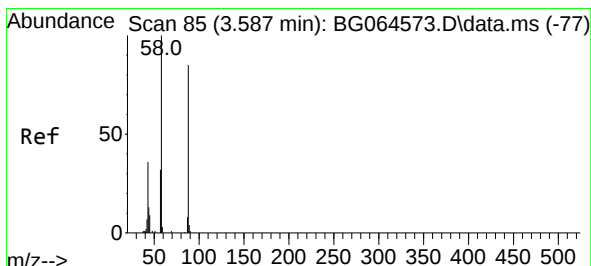
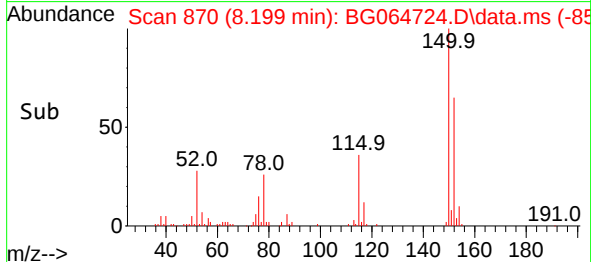
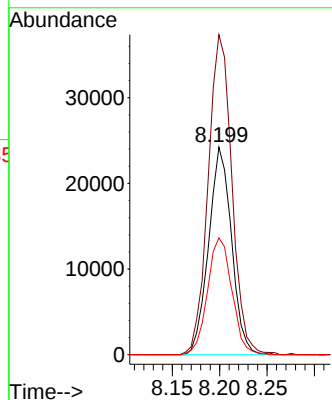
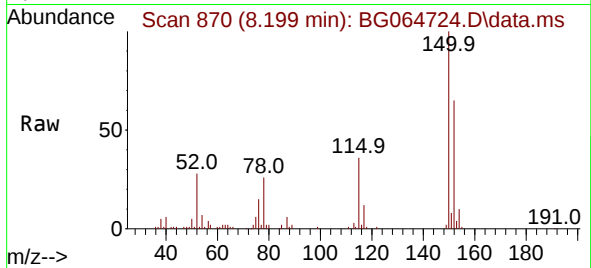




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.199 min Scan# 81
Delta R.T. -0.024 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

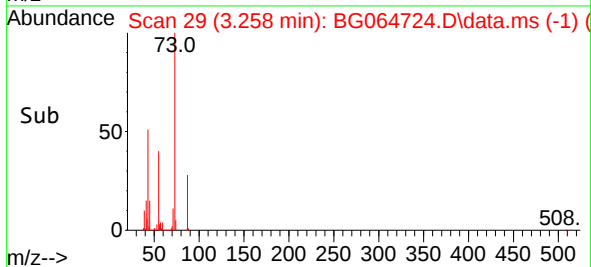
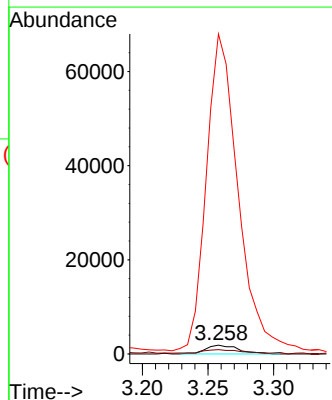
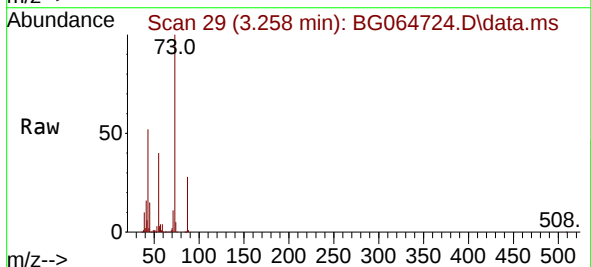
Instrument :
BNA_G
ClientSampleId :
EO-03-110625

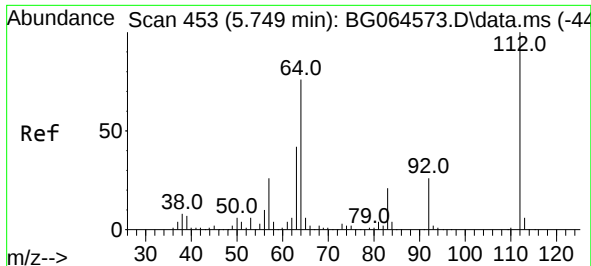
Tgt Ion:152 Resp: 40729
Ion Ratio Lower Upper
152 100
150 154.2 122.2 183.4
115 56.3 50.8 76.2



#2
1,4-Dioxane
Concen: 3.050 ng
RT: 3.258 min Scan# 29
Delta R.T. -0.329 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion: 88 Resp: 3277
Ion Ratio Lower Upper
88 100
58 63.9 92.4 138.6#
43 3527.9 33.0 49.6#

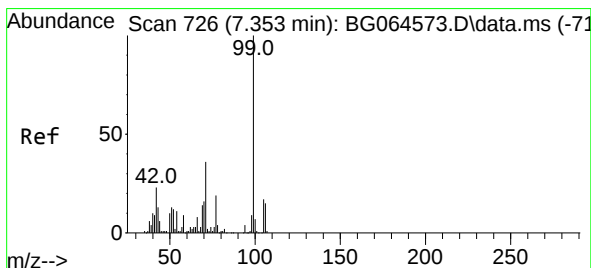
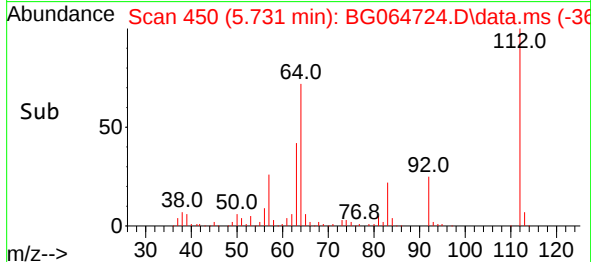
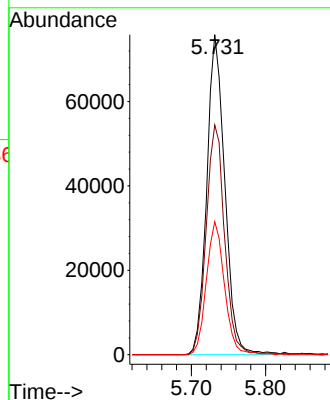
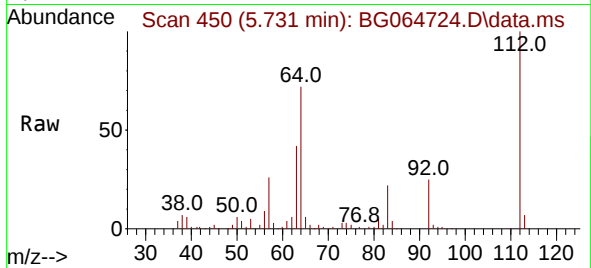




#5
2-Fluorophenol
Concen: 53.000 ng
RT: 5.731 min Scan# 41
Delta R.T. -0.018 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

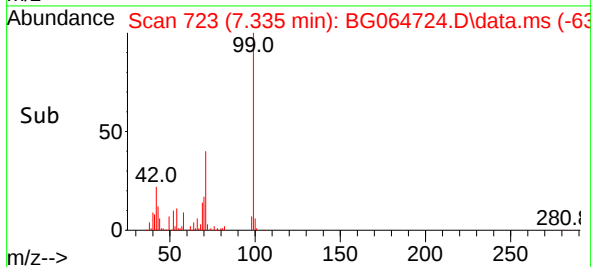
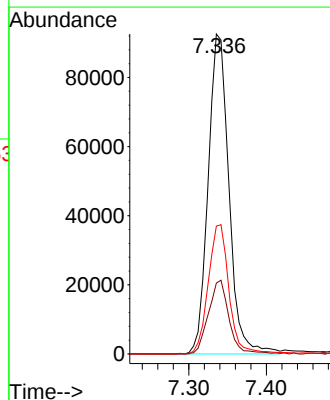
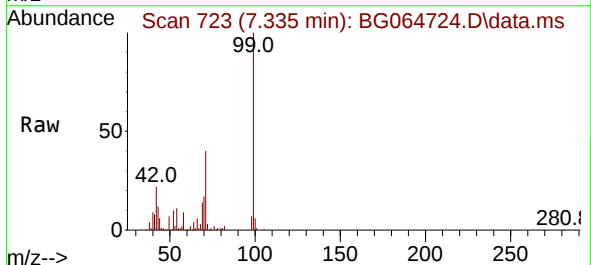
Instrument :
BNA_G
ClientSampleId :
EO-03-110625

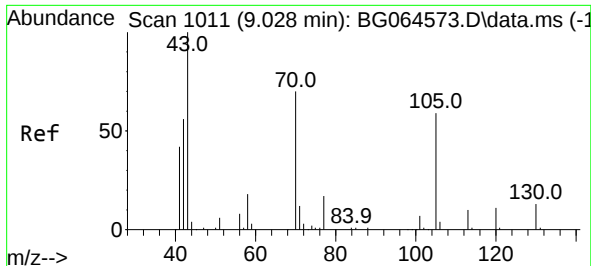
Tgt Ion:112 Resp: 128605
Ion Ratio Lower Upper
112 100
64 71.8 60.7 91.1
63 41.5 33.4 50.0



#7
Phenol-d6
Concen: 51.878 ng
RT: 7.335 min Scan# 723
Delta R.T. -0.018 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion: 99 Resp: 172738
Ion Ratio Lower Upper
99 100
42 22.2 18.3 27.5
71 39.9 28.6 43.0





#19

n-Nitroso-di-n-propylamine

Concen: 6.249 ng

RT: 9.357 min Scan# 1067

Delta R.T. 0.329 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

Tgt Ion: 70 Resp: 14381

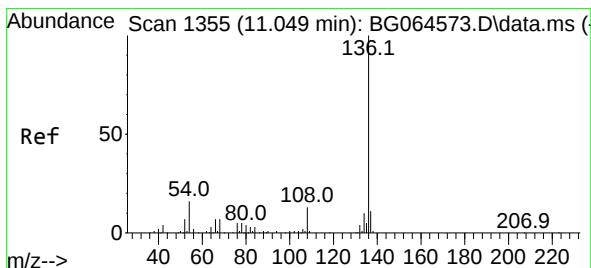
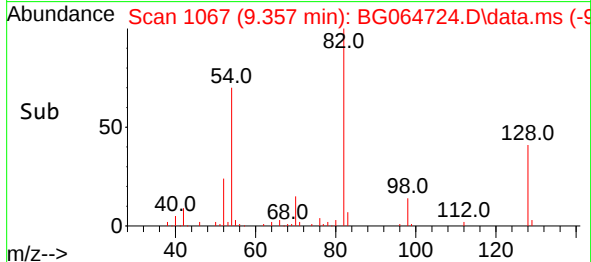
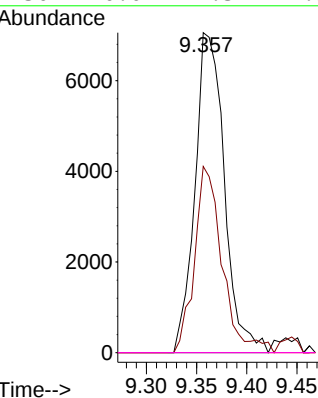
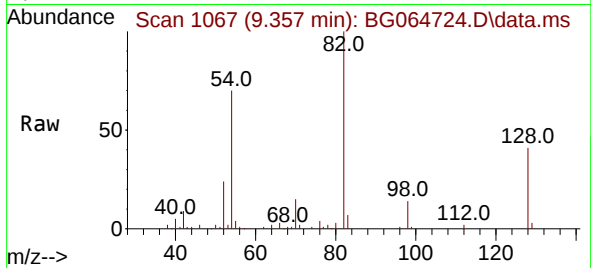
Ion Ratio Lower Upper

70 100

42 58.2 65.2 97.8#

101 0.0 7.9 11.9#

130 0.0 14.3 21.5#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.025 min Scan# 1351

Delta R.T. -0.024 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Tgt Ion:136 Resp: 160008

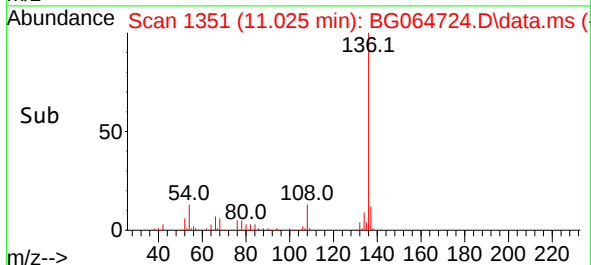
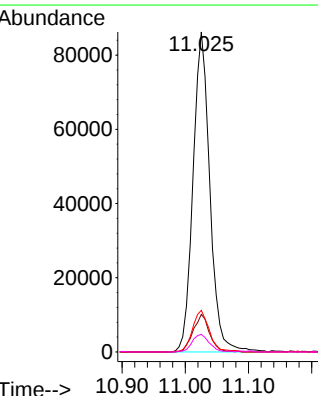
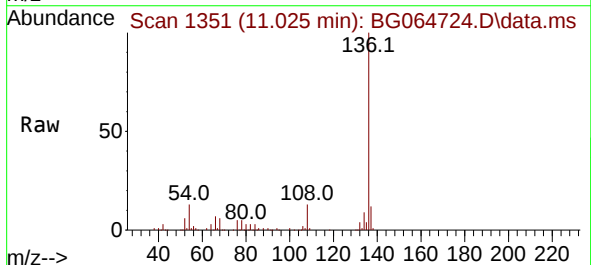
Ion Ratio Lower Upper

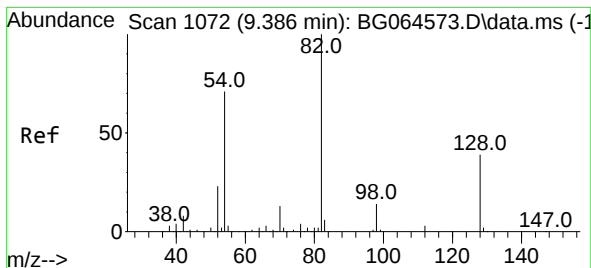
136 100

137 11.8 9.2 13.8

54 13.0 12.6 19.0

68 5.5 5.7 8.5#





#23

Nitrobenzene-d5

Concen: 40.528 ng

RT: 9.363 min Scan# 1068

Delta R.T. -0.024 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

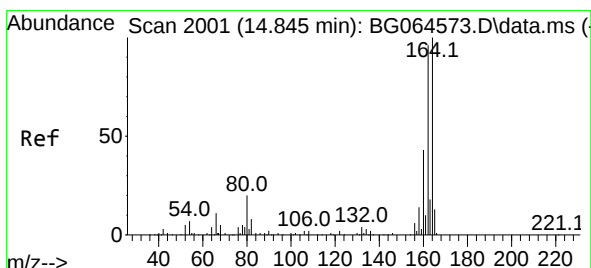
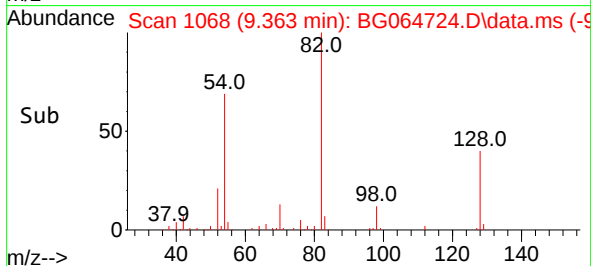
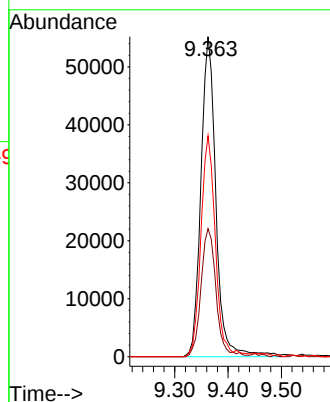
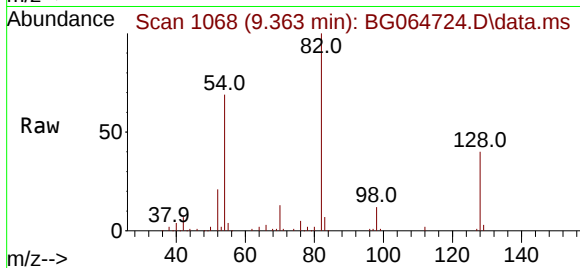
Tgt Ion: 82 Resp: 107967

Ion Ratio Lower Upper

82 100

128 40.0 31.3 46.9

54 69.0 56.6 84.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.821 min Scan# 1997

Delta R.T. -0.024 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

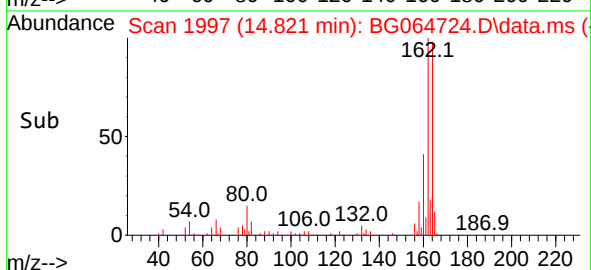
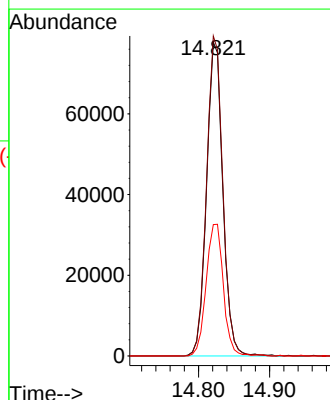
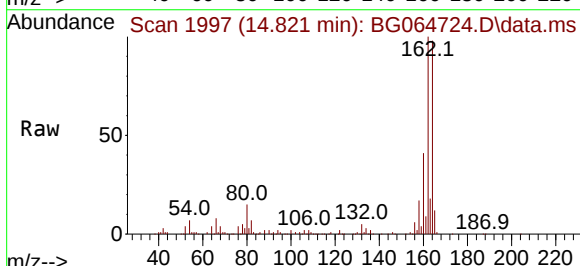
Tgt Ion: 164 Resp: 123732

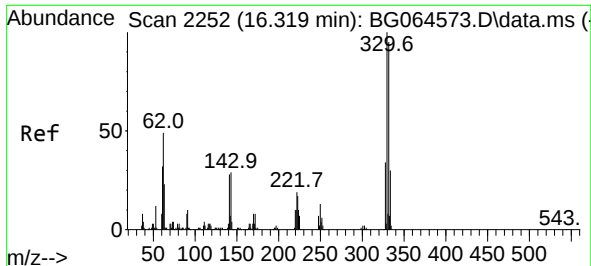
Ion Ratio Lower Upper

164 100

162 101.9 77.0 115.6

160 41.8 34.4 51.6

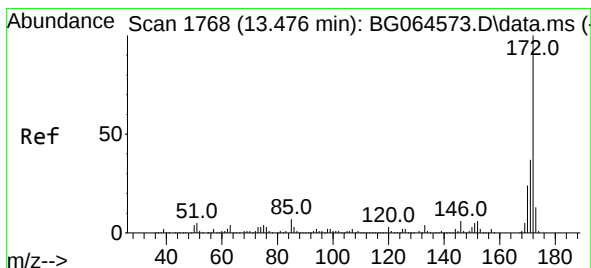
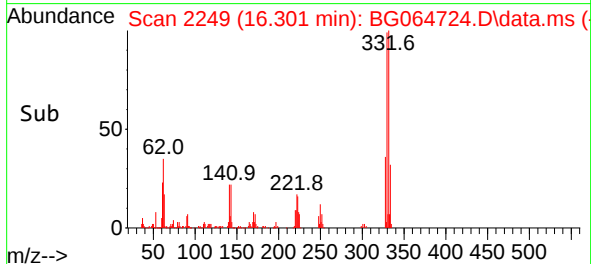
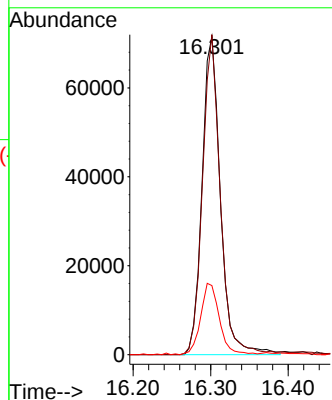
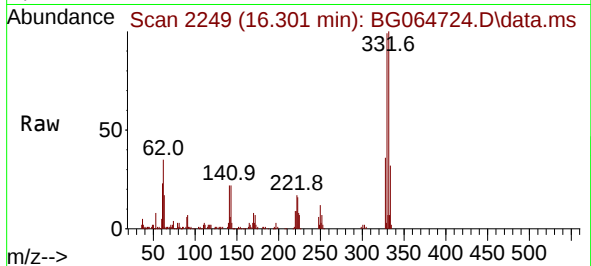




#42
2,4,6-Tribromophenol
Concen: 65.897 ng
RT: 16.301 min Scan# 21
Delta R.T. -0.018 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

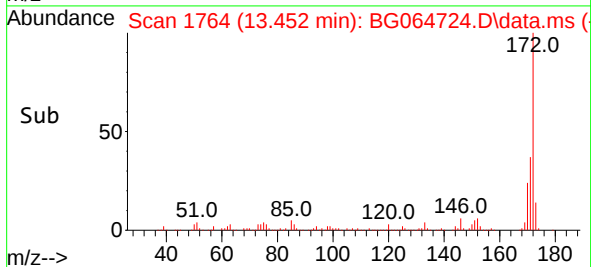
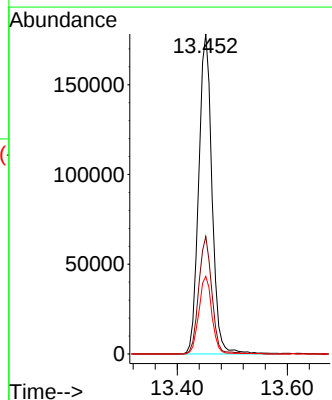
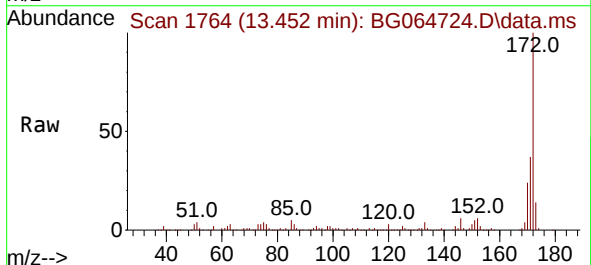
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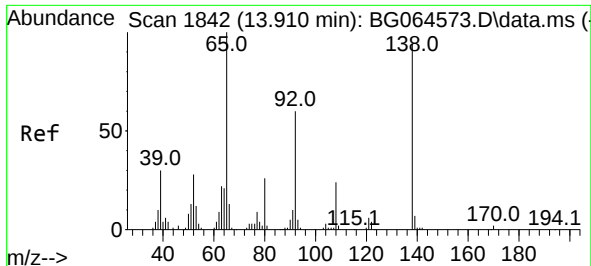
Tgt Ion:330 Resp: 117680
Ion Ratio Lower Upper
330 100
332 97.6 78.0 117.0
141 22.9 21.8 32.6



#45
2-Fluorobiphenyl
Concen: 36.578 ng
RT: 13.452 min Scan# 1764
Delta R.T. -0.024 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion:172 Resp: 298594
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 24.2 19.1 28.7

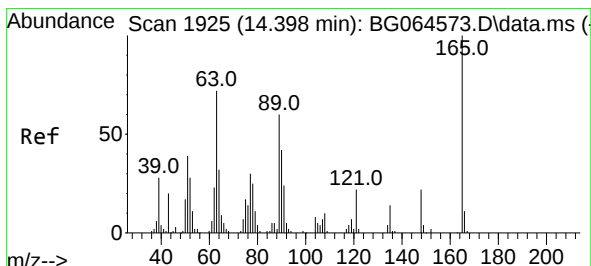
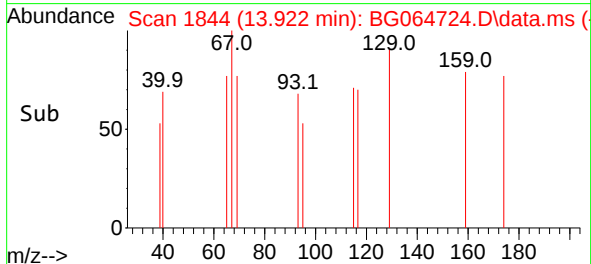
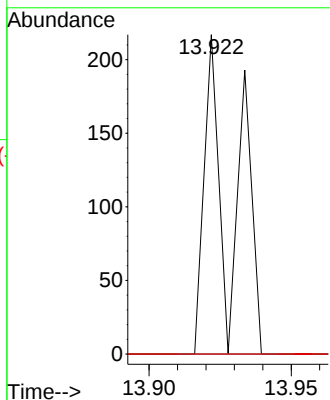
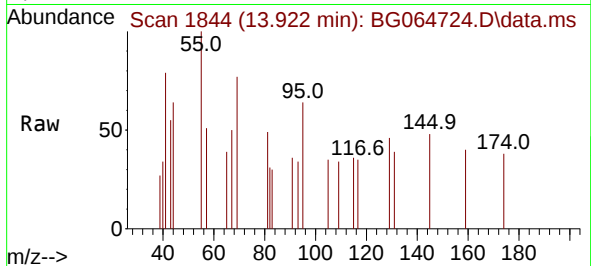




#48
2-Nitroaniline
Concen: 3.286 ng
RT: 13.922 min Scan# 11
Delta R.T. 0.012 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

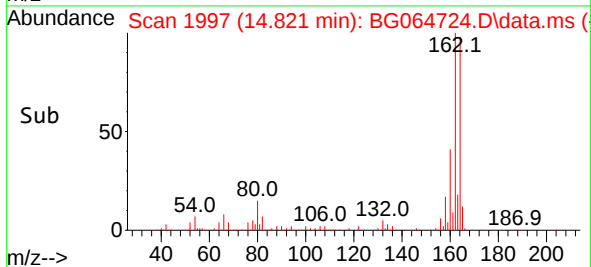
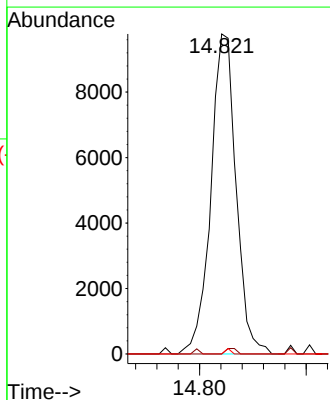
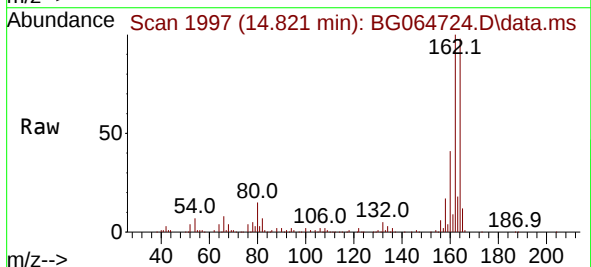
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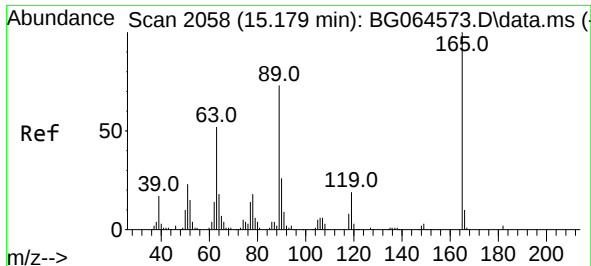
Tgt Ion: 65 Resp: 145
Ion Ratio Lower Upper
65 100
92 0.0 48.3 72.5#
138 0.0 74.9 112.3#



#51
2,6-Dinitrotoluene
Concen: 12.773 ng
RT: 14.821 min Scan# 1997
Delta R.T. 0.423 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion: 165 Resp: 16033
Ion Ratio Lower Upper
165 100
63 0.0 57.4 86.0#
89 0.0 47.8 71.8#





#57

2,4-Dinitrotoluene

Concen: 9.267 ng

RT: 14.821 min Scan# 1997

Delta R.T. -0.358 min

Lab File: BG064724.D

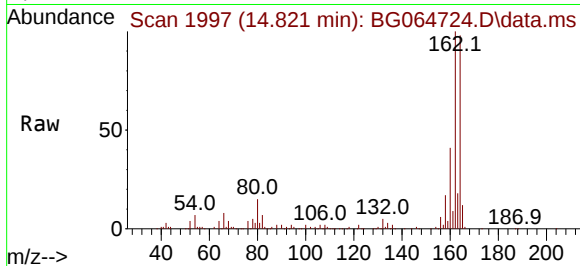
Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625



Tgt Ion:165 Resp: 16033

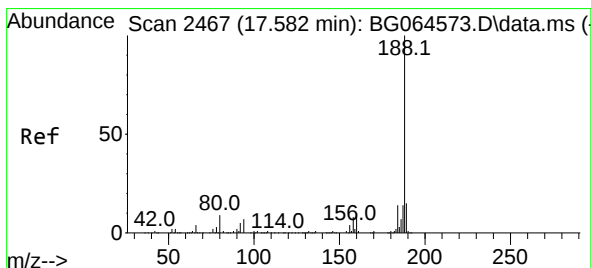
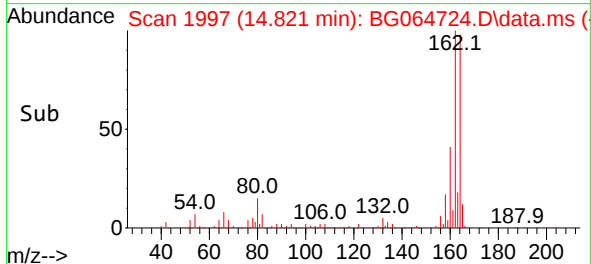
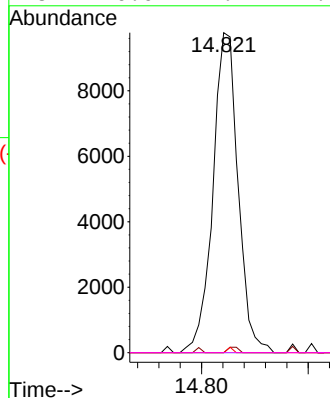
Ion Ratio Lower Upper

165 100

63 0.0 41.8 62.8#

89 0.0 58.1 87.1#

182 0.0 1.4 2.0#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.559 min Scan# 2463

Delta R.T. -0.024 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

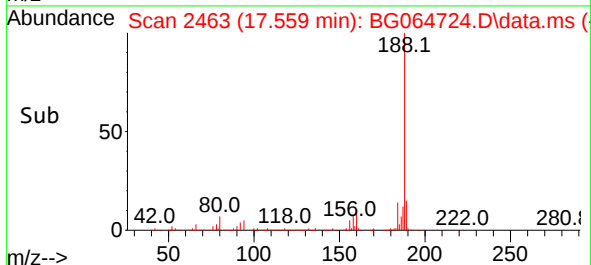
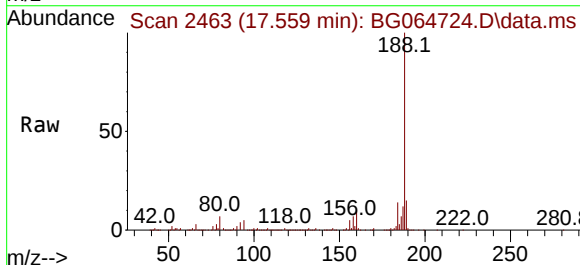
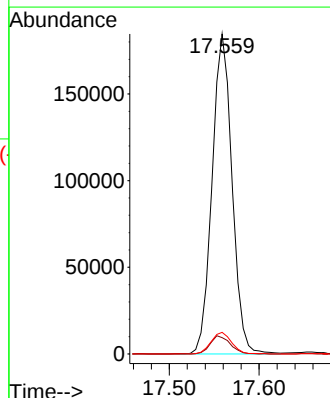
Tgt Ion:188 Resp: 284754

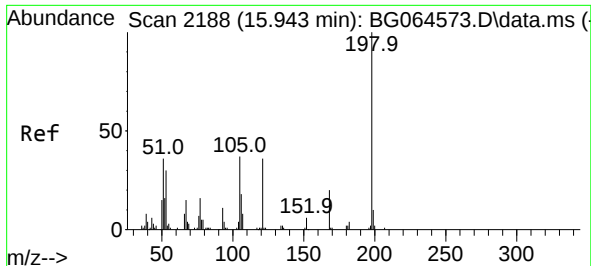
Ion Ratio Lower Upper

188 100

94 5.1 5.7 8.5#

80 6.7 6.8 10.2#

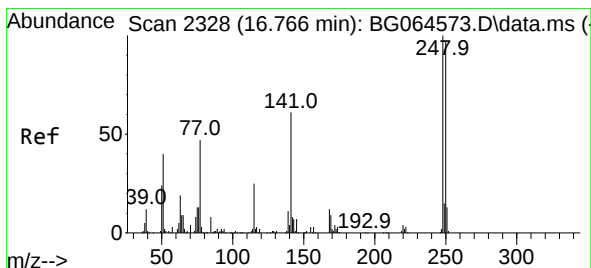
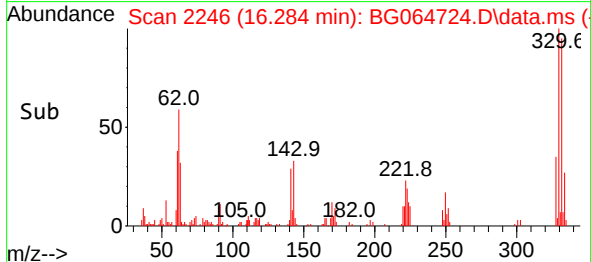
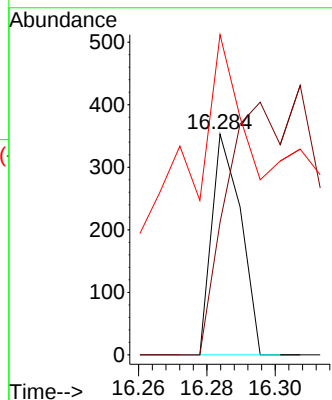
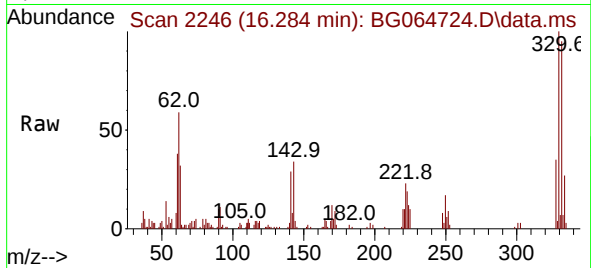




#65
4,6-Dinitro-2-methylphenol
Concen: 5.574 ng
RT: 16.284 min Scan# 2188
Delta R.T. 0.341 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

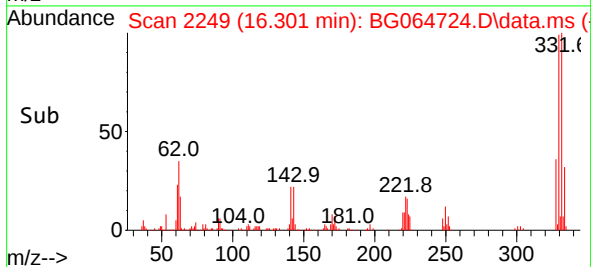
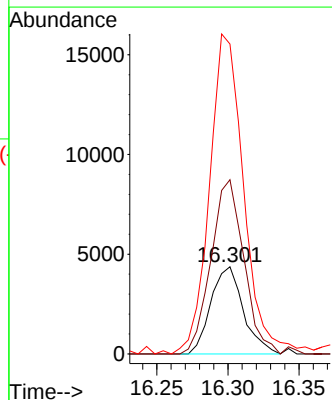
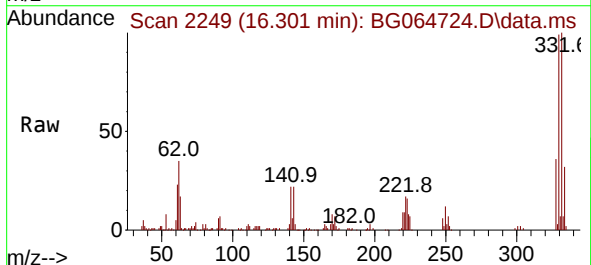
Instrument :
BNA_G
ClientSampleId :
EO-03-110625

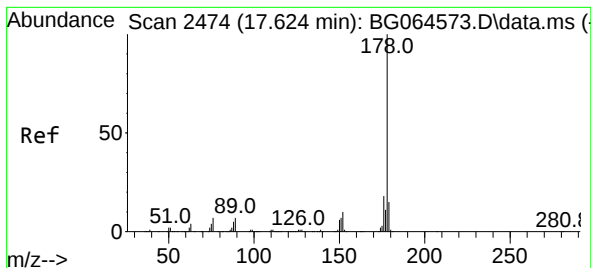
Tgt Ion:198 Resp: 208
Ion Ratio Lower Upper
198 100
51 60.1 24.7 64.7
105 145.0 18.0 58.0#



#67
4-Bromophenyl-phenylether
Concen: 2.059 ng
RT: 16.301 min Scan# 2249
Delta R.T. -0.464 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion:248 Resp: 6949
Ion Ratio Lower Upper
248 100
250 198.7 77.7 116.5#
141 274.4 48.6 72.8#





#71

Phenanthrene

Concen: 4.162 ng

RT: 17.600 min Scan# 24

Delta R.T. -0.024 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

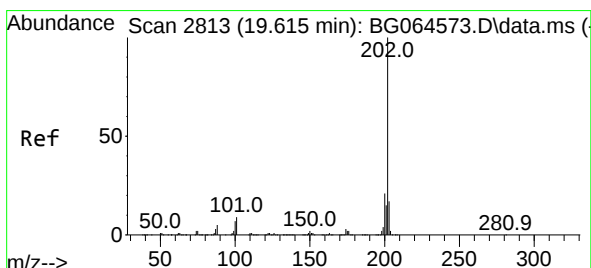
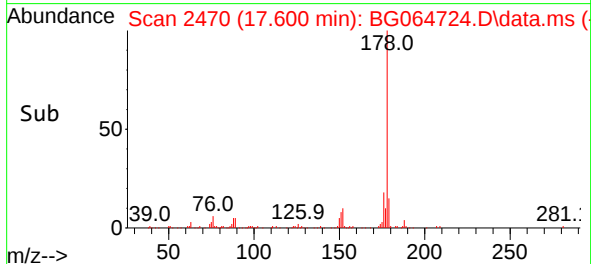
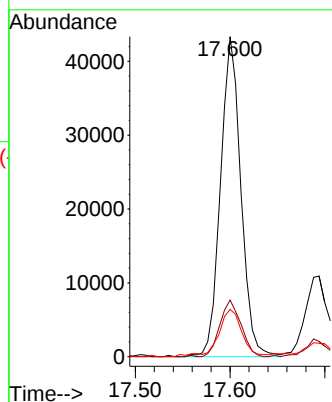
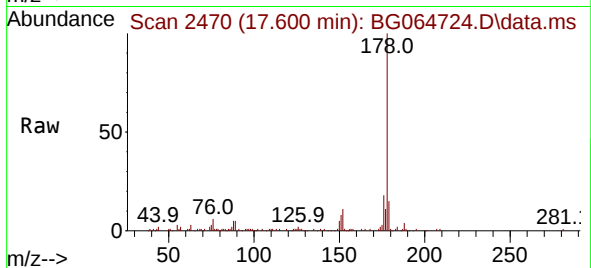
Tgt Ion:178 Resp: 64807

Ion Ratio Lower Upper

178 100

176 17.7 14.7 22.1

179 14.8 12.2 18.4



#75

Fluoranthene

Concen: 12.809 ng

RT: 19.598 min Scan# 2810

Delta R.T. -0.018 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

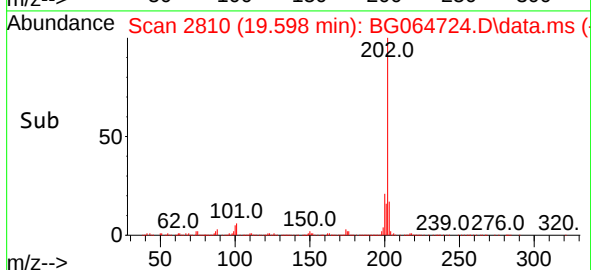
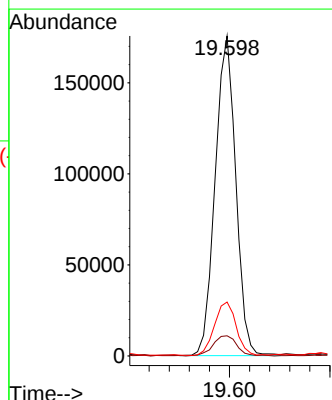
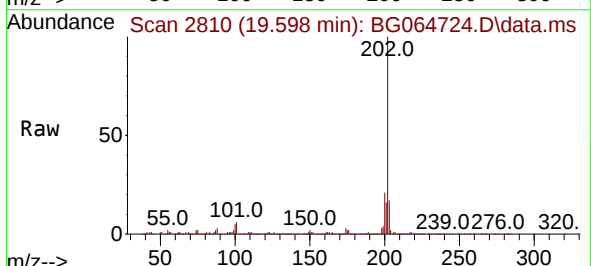
Tgt Ion:202 Resp: 249881

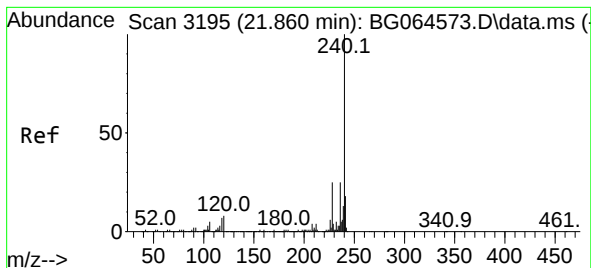
Ion Ratio Lower Upper

202 100

101 6.3 0.0 28.7

203 16.9 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.830 min Scan# 31

Delta R.T. -0.030 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

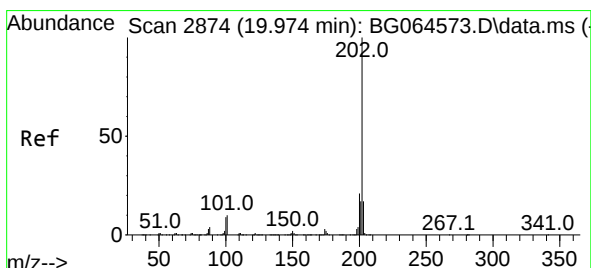
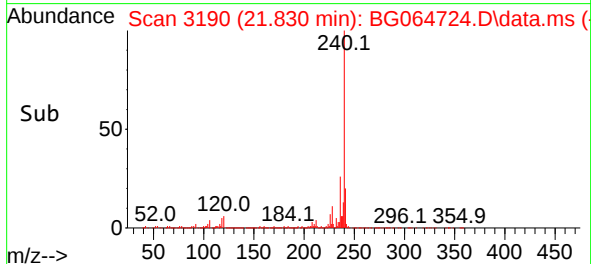
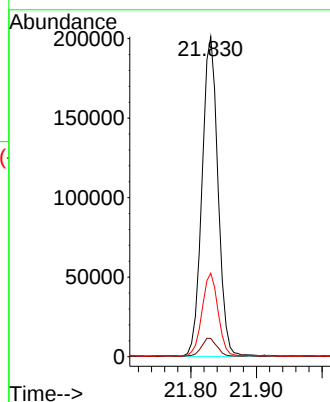
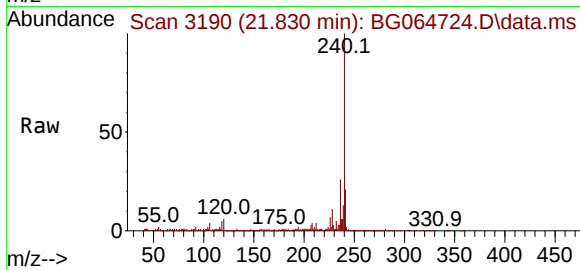
Tgt Ion:240 Resp: 340777

Ion Ratio Lower Upper

240 100

120 5.7 6.5 9.7#

236 26.1 20.2 30.2



#78

Pyrene

Concen: 10.350 ng

RT: 19.956 min Scan# 2871

Delta R.T. -0.018 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

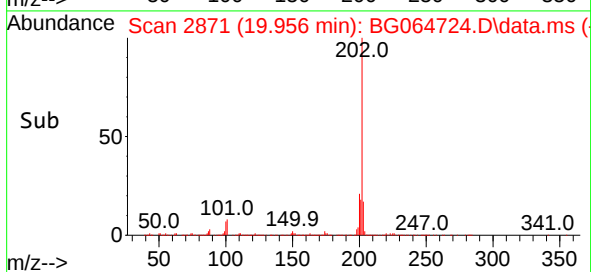
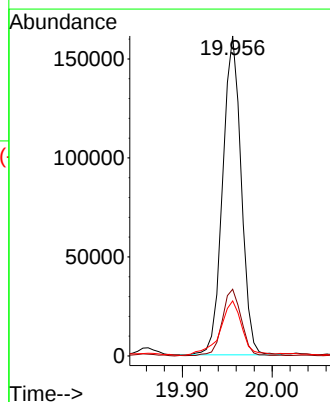
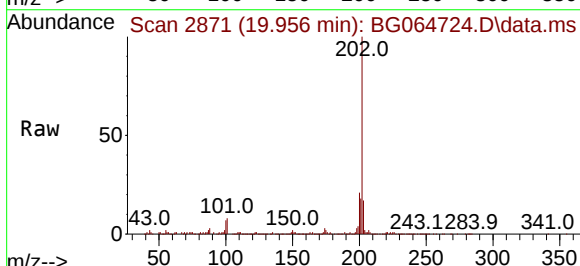
Tgt Ion:202 Resp: 230435

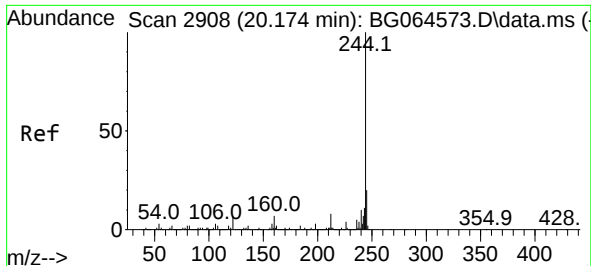
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 17.2 13.8 20.6

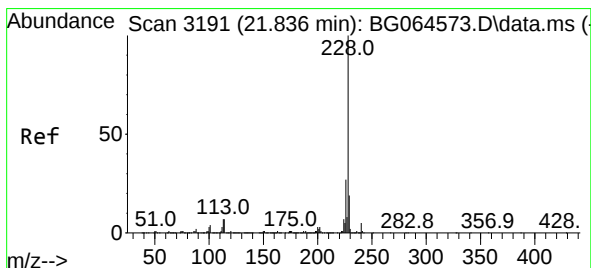
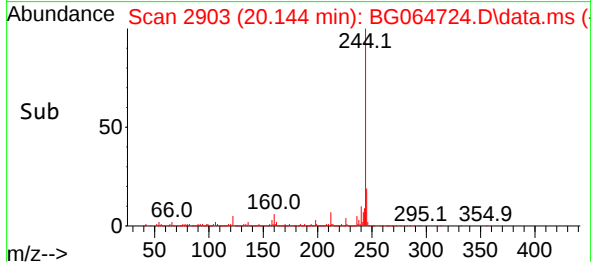
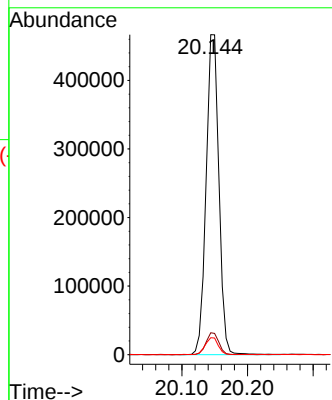
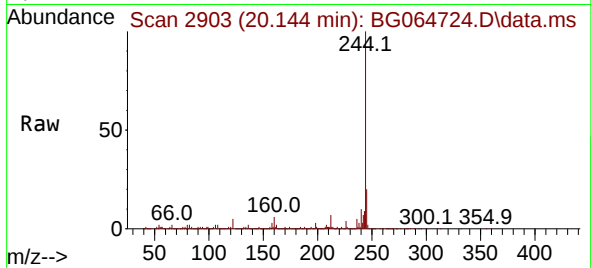




#79
 Terphenyl-d14
 Concen: 35.063 ng
 RT: 20.144 min Scan# 2908
 Delta R.T. -0.030 min
 Lab File: BG064724.D
 Acq: 7 Nov 2025 20:18

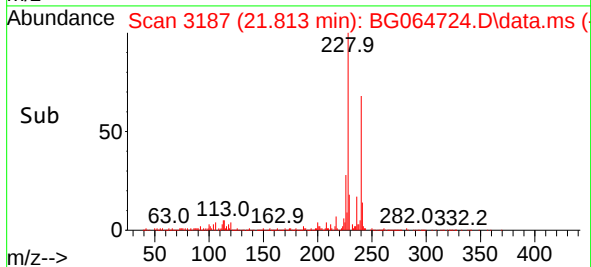
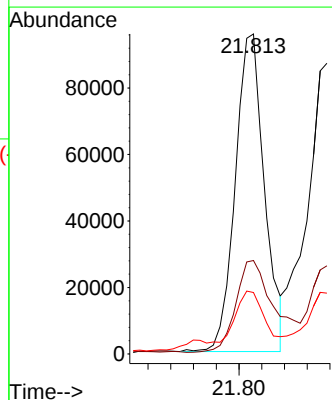
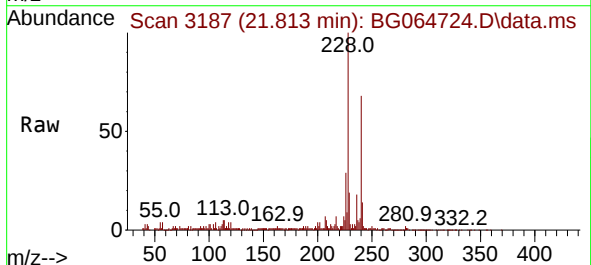
Instrument :
 BNA_G
 ClientSampleId :
 EO-03-110625

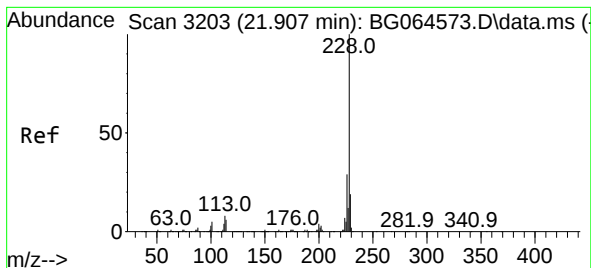
Tgt Ion:244 Resp: 633160
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.1 9.1
 122 5.3 5.6 8.4#



#81
 Benzo(a)anthracene
 Concen: 7.531 ng
 RT: 21.813 min Scan# 3187
 Delta R.T. -0.024 min
 Lab File: BG064724.D
 Acq: 7 Nov 2025 20:18

Tgt Ion:228 Resp: 170156
 Ion Ratio Lower Upper
 228 100
 226 29.2 21.9 32.9
 229 19.2 15.6 23.4





#83

Chrysene

Concen: 7.751 ng

RT: 21.877 min Scan# 31

Delta R.T. -0.030 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

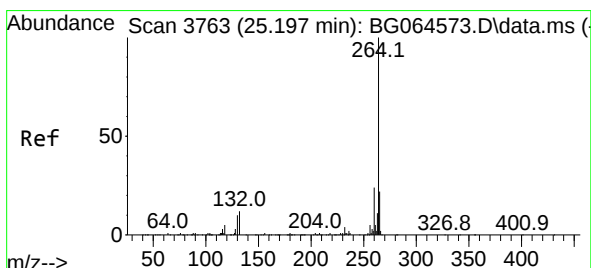
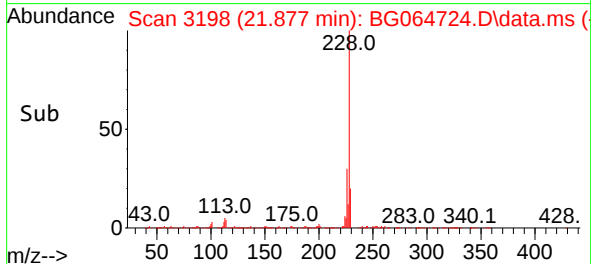
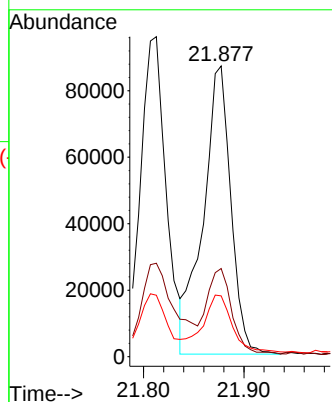
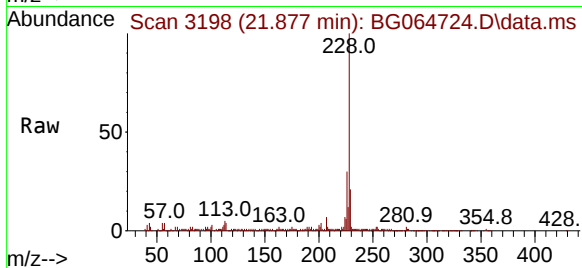
Tgt Ion:228 Resp: 166648

Ion Ratio Lower Upper

228 100

226 30.3 23.3 34.9

229 20.9 15.2 22.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.156 min Scan# 3756

Delta R.T. -0.041 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

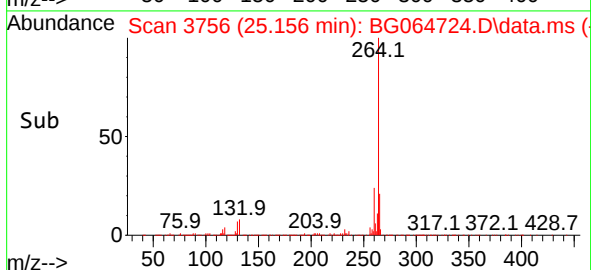
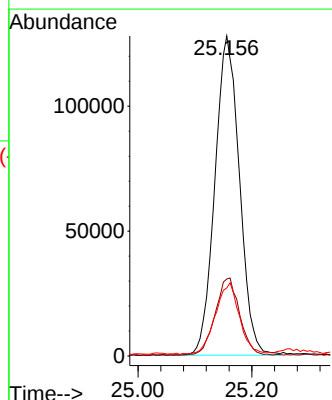
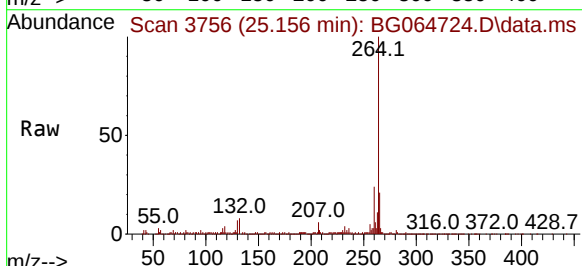
Tgt Ion:264 Resp: 382892

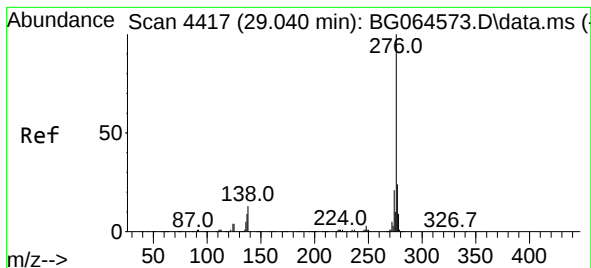
Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.4

265 21.2 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.597 ng

RT: 28.975 min Scan# 4417

Delta R.T. -0.065 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

Instrument :

BNA_G

ClientSampleId :

EO-03-110625

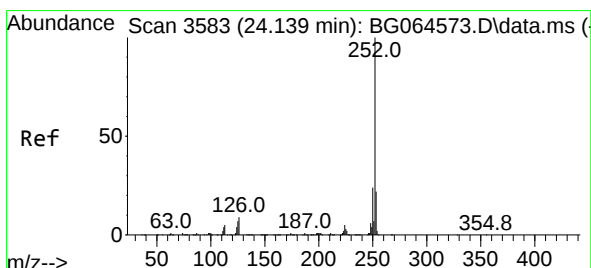
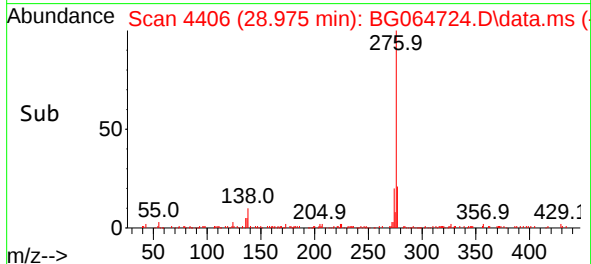
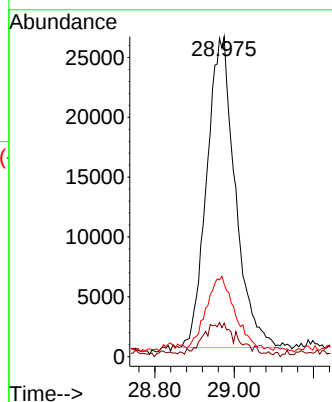
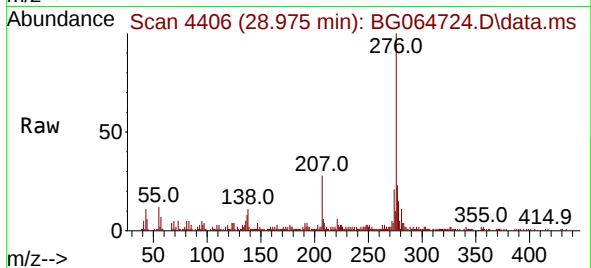
Tgt Ion:276 Resp: 129484

Ion Ratio Lower Upper

276 100

138 9.0 10.8 16.2#

277 24.2 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 10.016 ng

RT: 24.092 min Scan# 3575

Delta R.T. -0.047 min

Lab File: BG064724.D

Acq: 7 Nov 2025 20:18

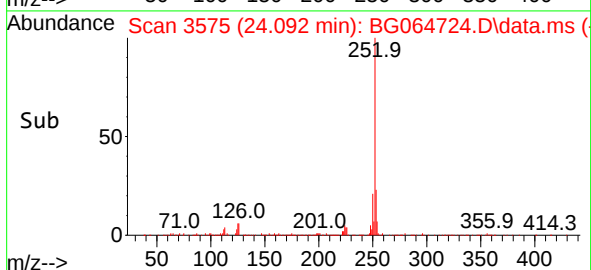
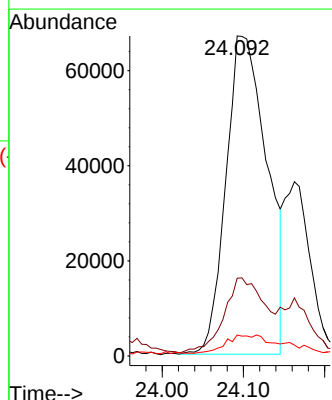
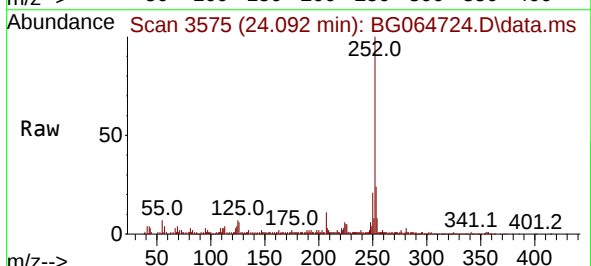
Tgt Ion:252 Resp: 235153

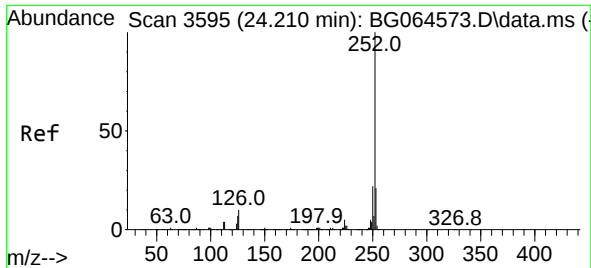
Ion Ratio Lower Upper

252 100

253 24.3 17.8 26.8

125 6.6 5.6 8.4

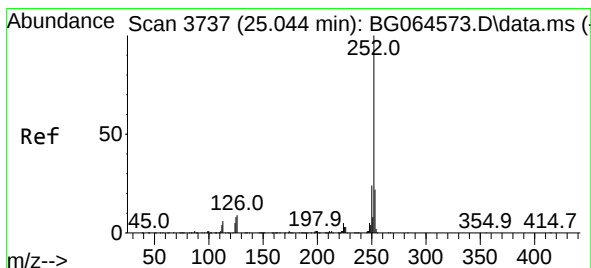
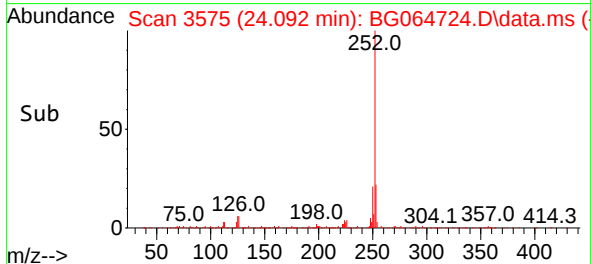
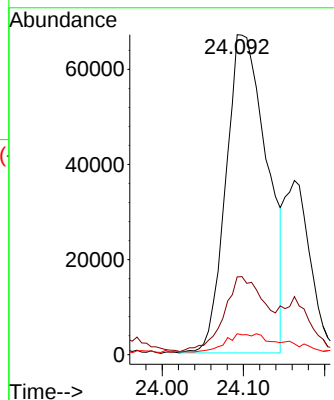
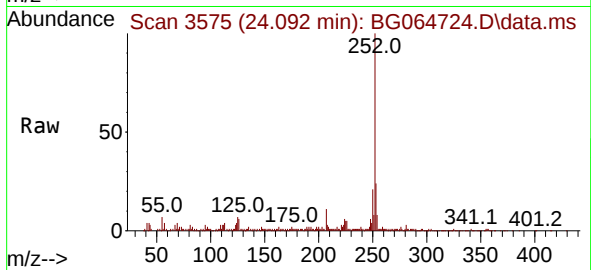




#89
Benzo(k)fluoranthene
Concen: 10.009 ng
RT: 24.092 min Scan# 31
Delta R.T. -0.118 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

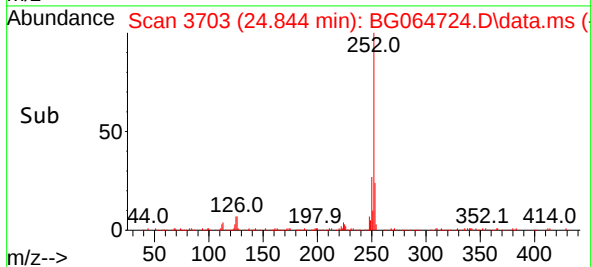
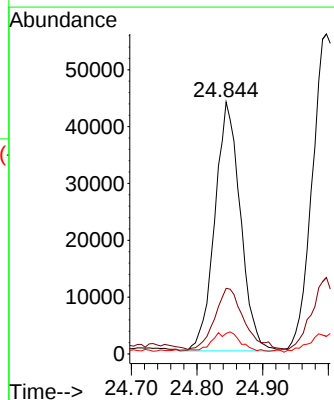
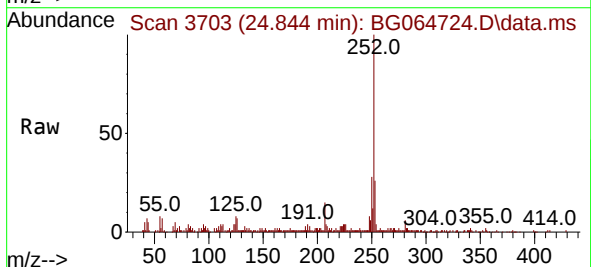
Instrument :
BNA_G
ClientSampleId :
EO-03-110625

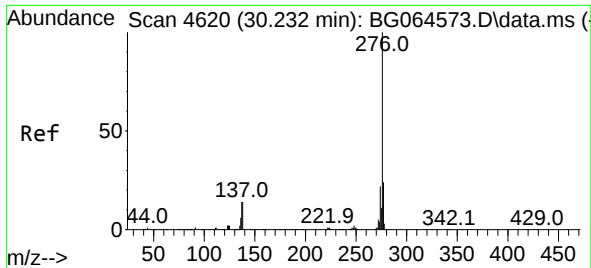
Tgt Ion:252 Resp: 235153
Ion Ratio Lower Upper
252 100
253 24.3 16.8 25.2
125 6.6 5.4 8.0



#90
Benzo(a)pyrene
Concen: 5.477 ng
RT: 24.844 min Scan# 3703
Delta R.T. -0.200 min
Lab File: BG064724.D
Acq: 7 Nov 2025 20:18

Tgt Ion:252 Resp: 118207
Ion Ratio Lower Upper
252 100
253 26.0 17.6 26.4
125 8.1 6.1 9.1





#92
 Benzo(g,h,i)perylene
 Concen: 5.728 ng
 RT: 30.156 min Scan# 4
 Delta R.T. -0.077 min
 Lab File: BG064724.D
 Acq: 7 Nov 2025 20:18

Instrument :
 BNA_G
 ClientSampleId :
 EO-03-110625

Tgt Ion:276 Resp: 125222
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.1 28.7
 138 11.4 11.3 16.9

