

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG111325\
 Data File : BG064765.D
 Acq On : 13 Nov 2025 20:46
 Operator : RC/JU
 Sample : Q3614-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 COMP-2

Quant Time: Nov 14 05:03:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 12 17:10:56 2025
 Response via : Initial Calibration

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

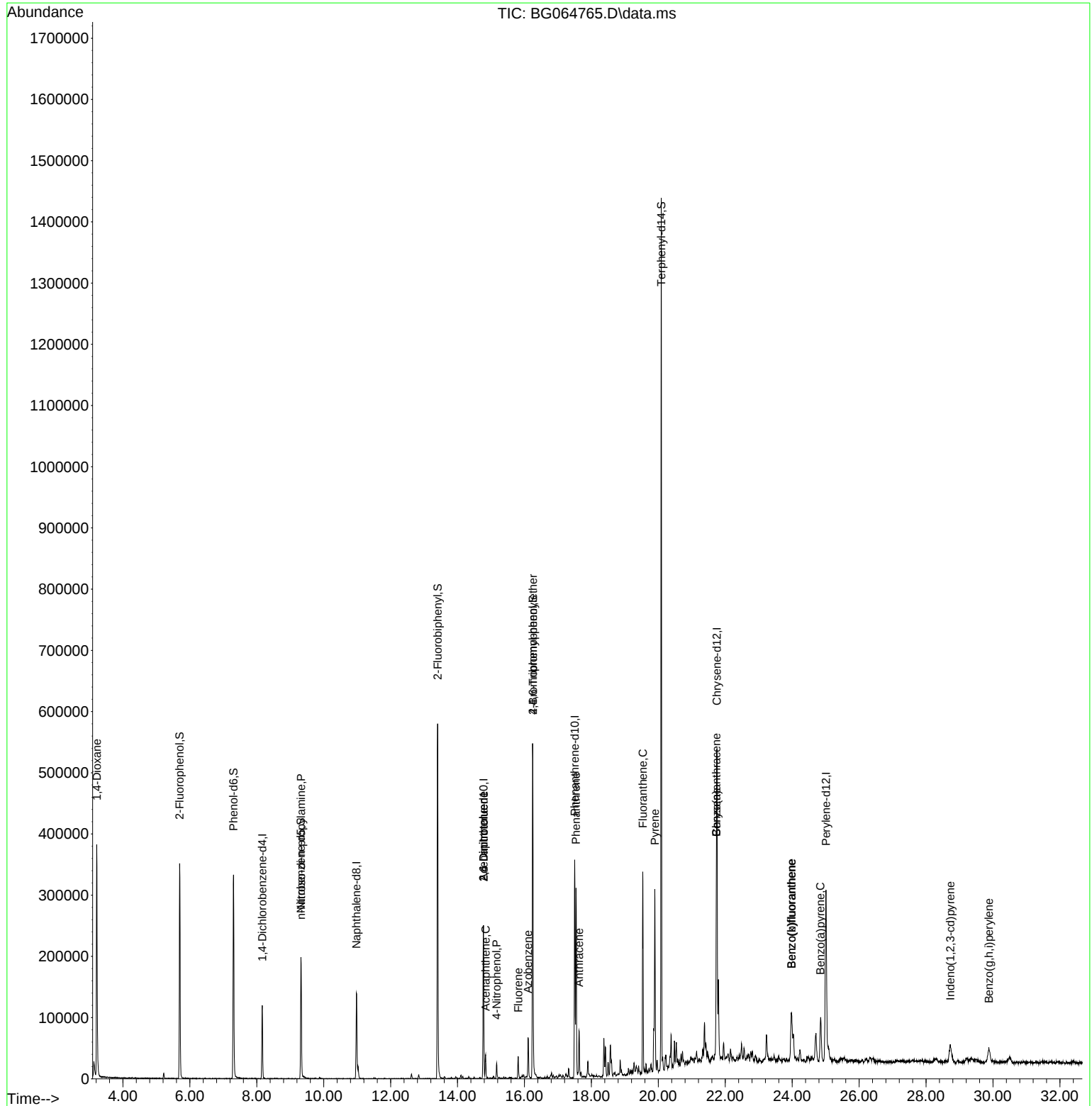
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.165	152	33950	20.000	ng	0.00
21) Naphthalene-d8	10.979	136	129288	20.000	ng	0.00
39) Acenaphthene-d10	14.775	164	100182	20.000	ng	0.00
64) Phenanthrene-d10	17.501	188	242440	20.000	ng	0.00
76) Chrysene-d12	21.749	240	310729	20.000	ng	0.00
86) Perylene-d12	25.010	264	334431	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.697	112	145386	74.779	ng	0.00
7) Phenol-d6	7.307	99	190994	73.861	ng	0.00
23) Nitrobenzene-d5	9.322	82	122222	46.741	ng	0.00
42) 2,4,6-Tribromophenol	16.249	330	138761	71.019	ng	0.00
45) 2-Fluorobiphenyl	13.406	172	333868	46.501	ng	0.00
79) Terphenyl-d14	20.086	244	757598	47.960	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.217	88	3312	4.400	ng	# 1
19) n-Nitroso-di-n-propyla...	9.328	70	16355	9.354	ng	# 64
51) 2,6-Dinitrotoluene	14.775	165	13066	8.580	ng	# 21
52) Acenaphthene	14.839	154	15045	2.591	ng	95
56) 4-Nitrophenol	15.168	139	6278	5.265	ng	# 1
57) 2,4-Dinitrotoluene	14.775	165	13066	5.723	ng	# 24
58) Fluorene	15.814	166	17694	2.350	ng	96
63) Azobenzene	16.108	77	18652	2.958	ng	# 1
67) 4-Bromophenyl-phenylether	16.249	248	8498	2.669	ng	# 1
71) Phenanthrene	17.542	178	212326	16.007	ng	98
72) Anthracene	17.630	178	56878	4.205	ng	97
75) Fluoranthene	19.534	202	226323	12.477	ng	99
78) Pyrene	19.892	202	206147	11.837	ng	98
81) Benzo(a)anthracene	21.731	228	118317	5.600	ng	98
83) Chrysene	21.731	228	118317	5.940	ng	97
87) Indeno(1,2,3-cd)pyrene	28.723	276	53897	2.346	ng	# 98
88) Benzo(b)fluoranthene	23.975	252	114929	5.400	ng	98
89) Benzo(k)fluoranthene	23.975	252	114929	5.375	ng	99
90) Benzo(a)pyrene	24.845	252	90542	4.586	ng	98
92) Benzo(g,h,i)perylene	29.874	276	48999	2.705	ng	# 96

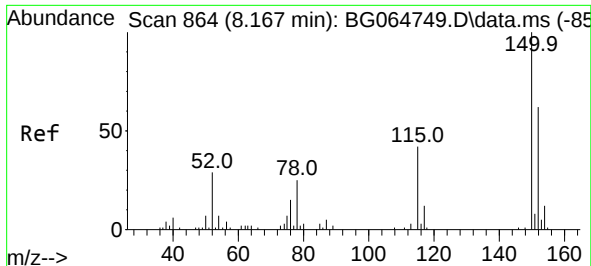
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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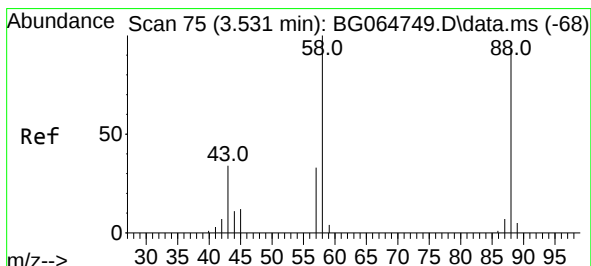
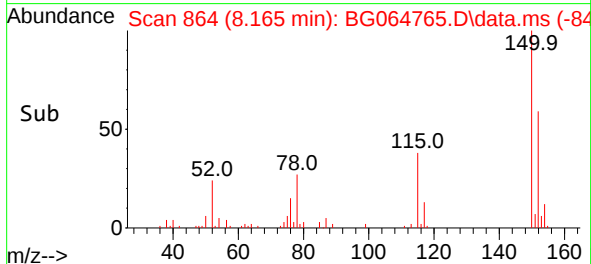
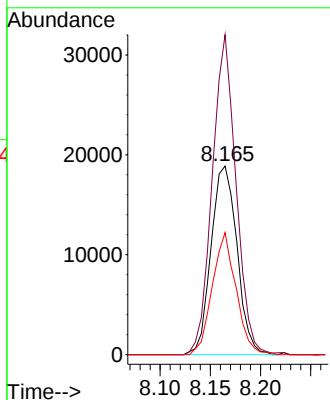
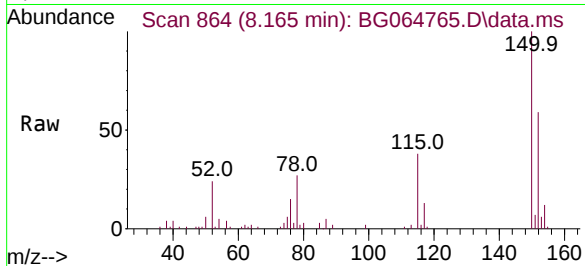




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.165 min Scan# 80
 Delta R.T. -0.002 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

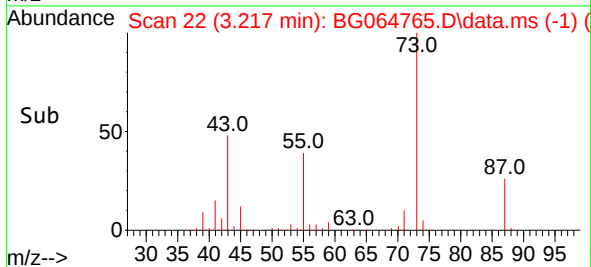
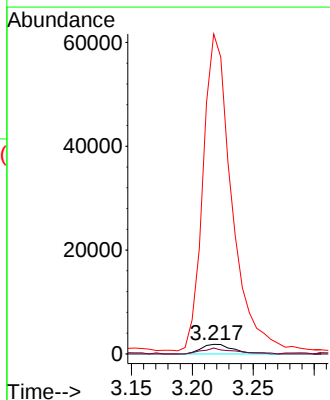
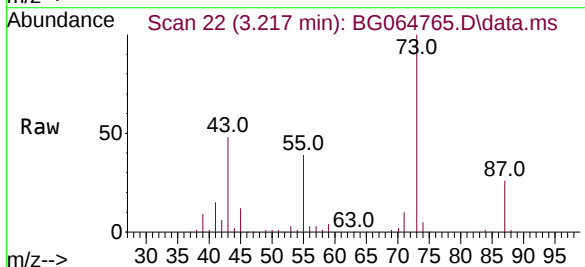
Instrument :
 BNA_G
 ClientSampleId :
 COMP-2

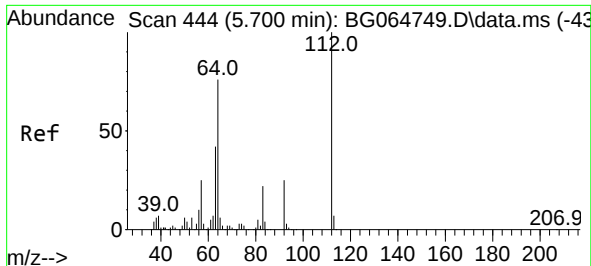
Tgt Ion:152 Resp: 33950
 Ion Ratio Lower Upper
 152 100
 150 169.7 129.2 193.8
 115 64.7 53.7 80.5



#2
 1,4-Dioxane
 Concen: 4.400 ng
 RT: 3.217 min Scan# 22
 Delta R.T. -0.314 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

Tgt Ion: 88 Resp: 3312
 Ion Ratio Lower Upper
 88 100
 58 60.7 84.6 126.8#
 43 3051.4 30.0 45.0#

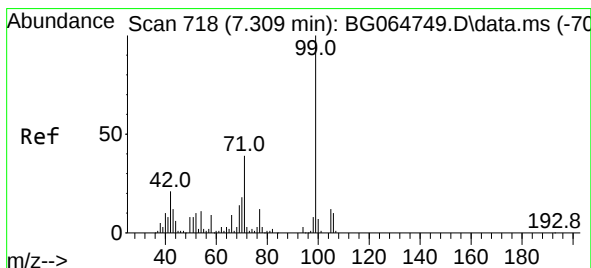
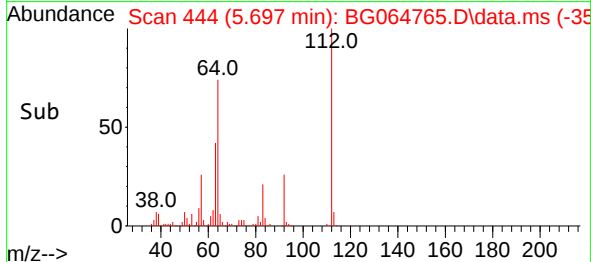
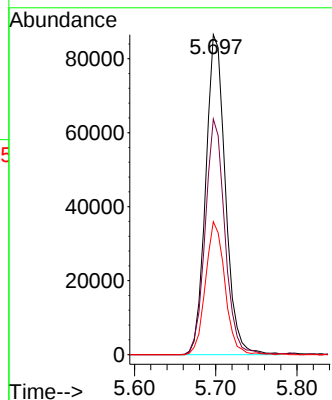
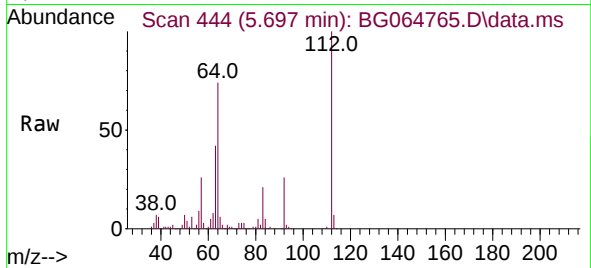




#5
2-Fluorophenol
Concen: 74.779 ng
RT: 5.697 min Scan# 444
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

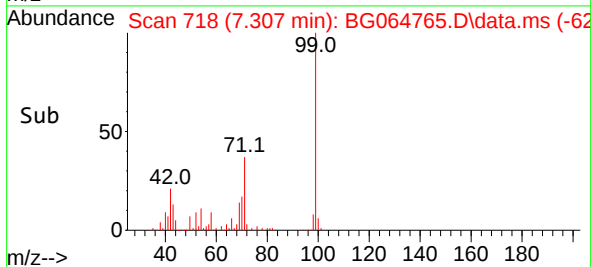
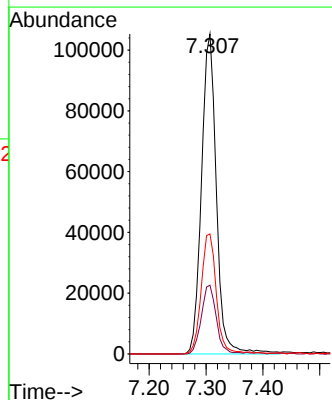
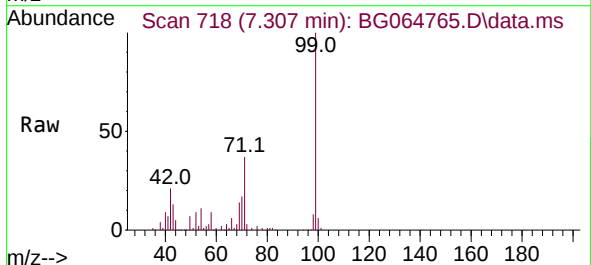
Instrument :
BNA_G
ClientSampleId :
COMP-2

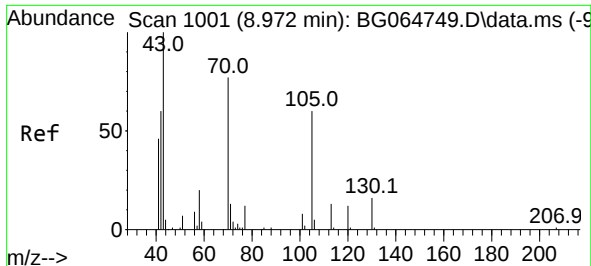
Tgt Ion:112 Resp: 145386
Ion Ratio Lower Upper
112 100
64 73.6 61.0 91.4
63 41.5 33.3 49.9



#7
Phenol-d6
Concen: 73.861 ng
RT: 7.307 min Scan# 718
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion: 99 Resp: 190994
Ion Ratio Lower Upper
99 100
42 21.5 16.8 25.2
71 37.5 31.1 46.7

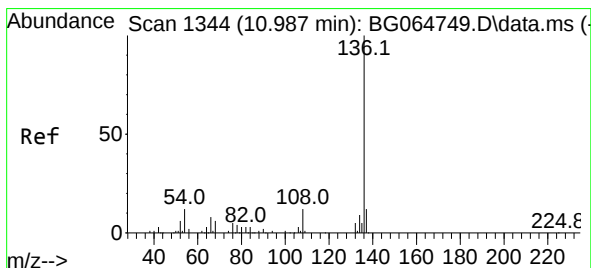
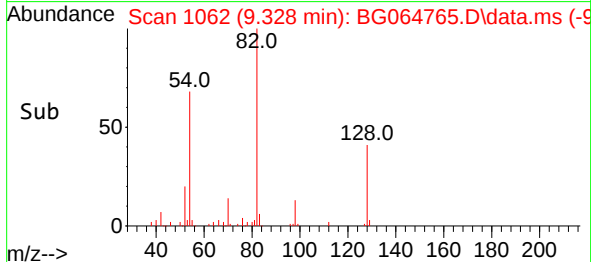
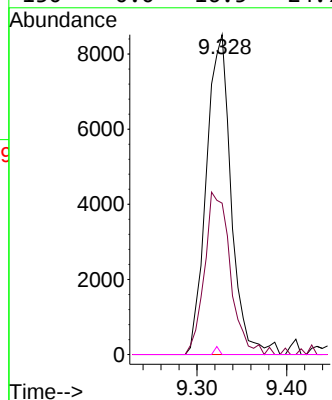
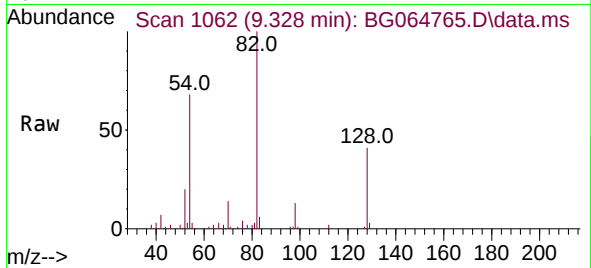




#19
n-Nitroso-di-n-propylamine
Concen: 9.354 ng
RT: 9.328 min Scan# 1062
Delta R.T. 0.356 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

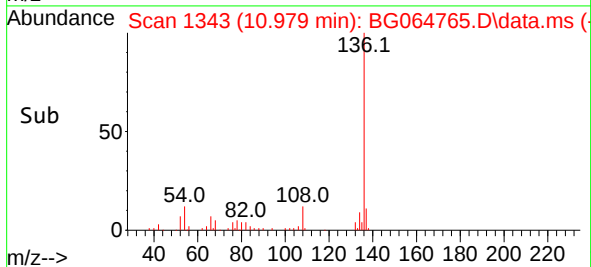
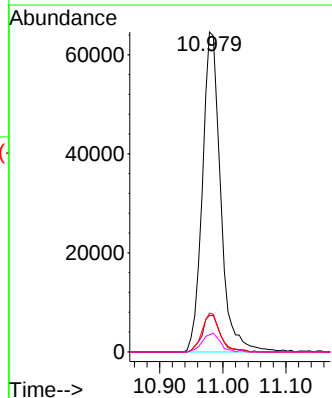
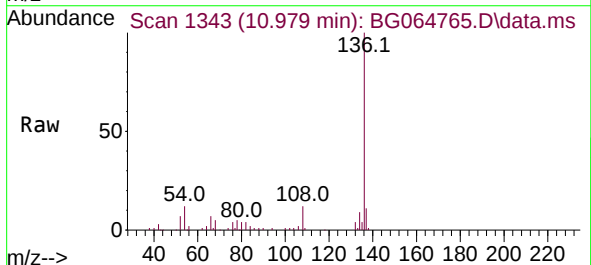
Instrument :
BNA_G
ClientSampleId :
COMP-2

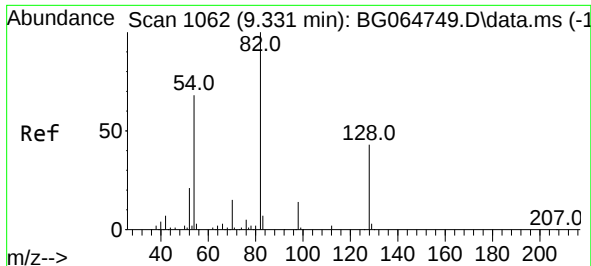
Tgt Ion:	70	Resp:	16355
Ion	Ratio	Lower	Upper
70	100		
42	47.3	62.6	93.8#
101	0.0	8.0	12.0#
130	0.0	16.5	24.7#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.979 min Scan# 1343
Delta R.T. -0.008 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:	136	Resp:	129288
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.3	13.9
54	12.1	9.3	13.9
68	5.3	5.0	7.6





#23

Nitrobenzene-d5

Concen: 46.741 ng

RT: 9.322 min Scan# 1061

Delta R.T. -0.009 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

Instrument :

BNA_G

ClientSampleId :

COMP-2

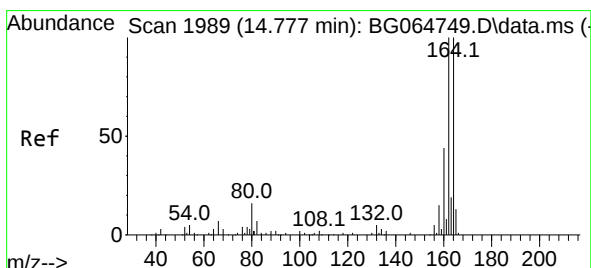
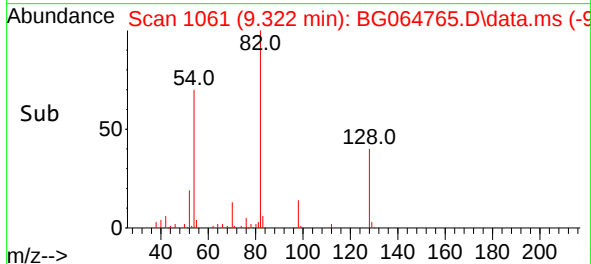
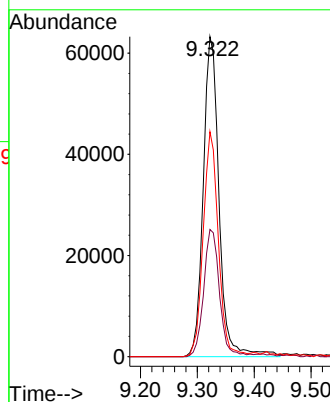
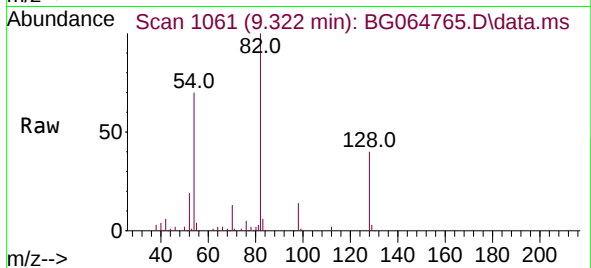
Tgt Ion: 82 Resp: 122222

Ion Ratio Lower Upper

82 100

128 39.7 34.1 51.1

54 70.3 54.3 81.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.775 min Scan# 1989

Delta R.T. -0.003 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

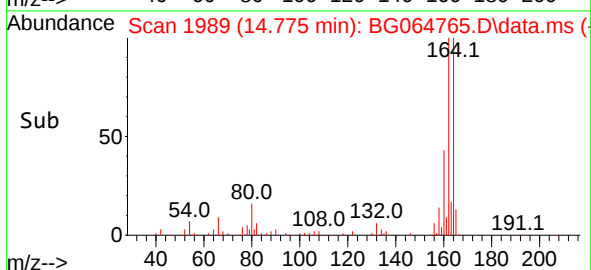
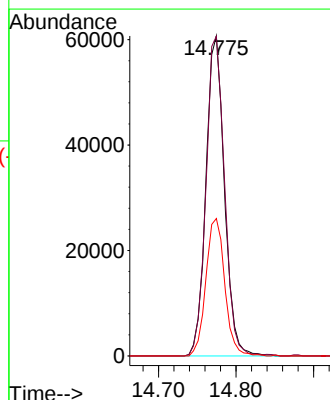
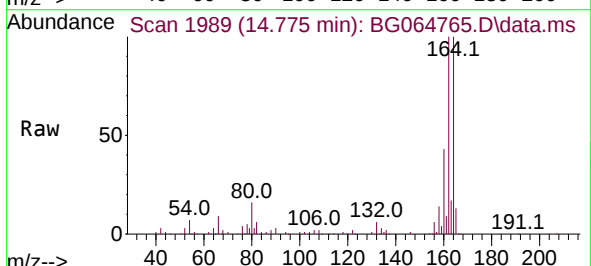
Tgt Ion:164 Resp: 100182

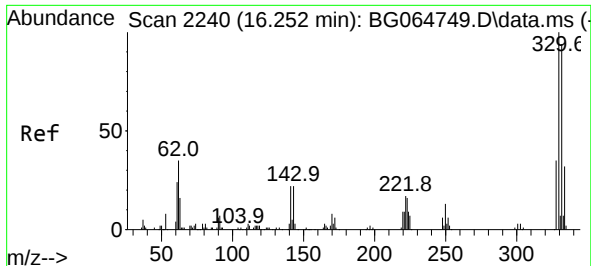
Ion Ratio Lower Upper

164 100

162 99.9 79.8 119.6

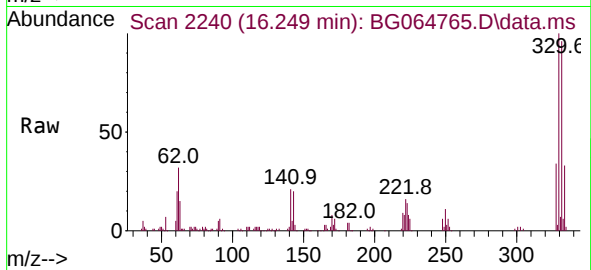
160 42.9 34.9 52.3



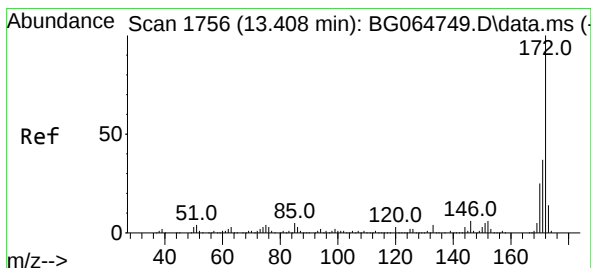
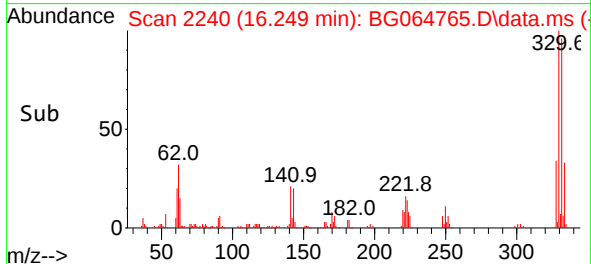
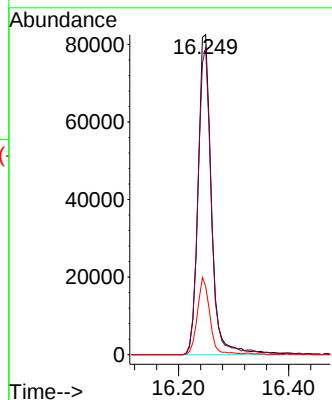


#42
2,4,6-Tribromophenol
Concen: 71.019 ng
RT: 16.249 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Instrument :
BNA_G
ClientSampleId :
COMP-2

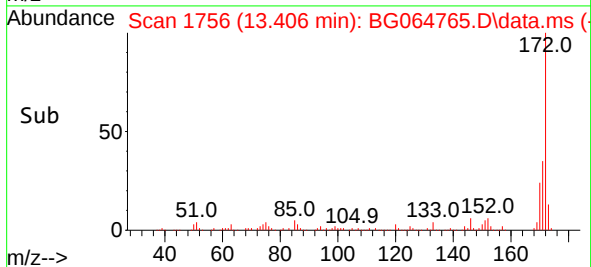
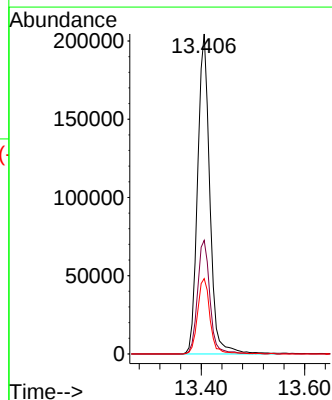
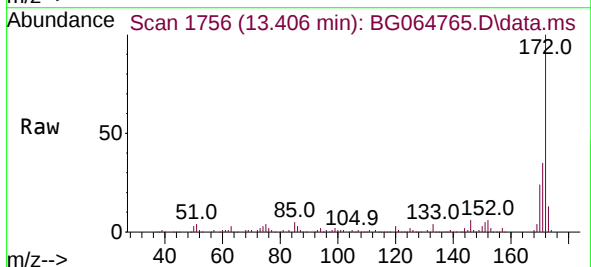


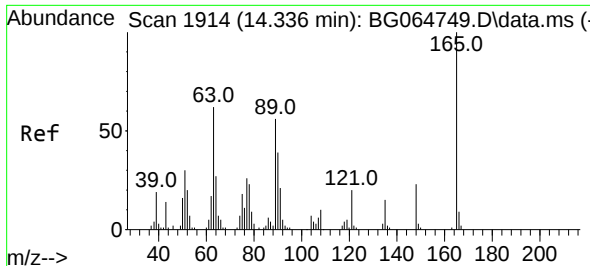
Tgt Ion:330 Resp: 138761
Ion Ratio Lower Upper
330 100
332 94.6 77.0 115.6
141 22.4 18.2 27.2



#45
2-Fluorobiphenyl
Concen: 46.501 ng
RT: 13.406 min Scan# 1756
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:172 Resp: 333868
Ion Ratio Lower Upper
172 100
171 35.5 29.9 44.9
170 23.5 19.8 29.6

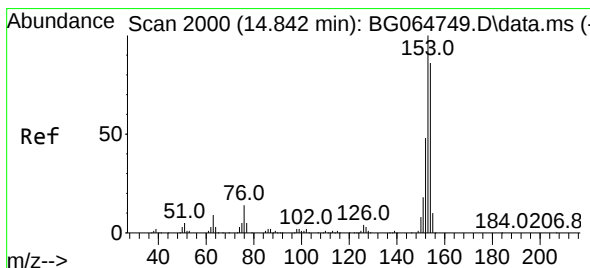
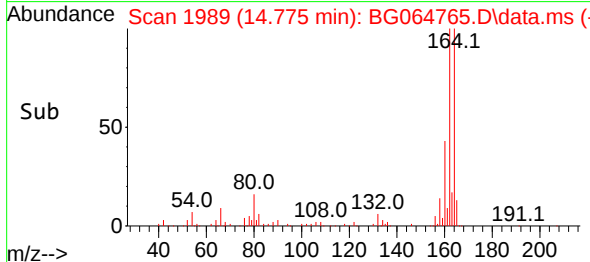
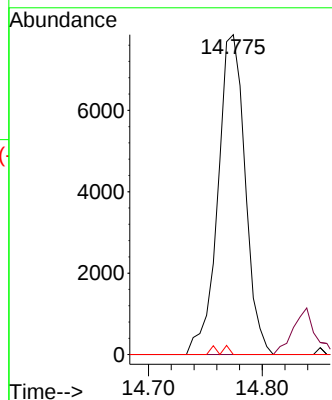
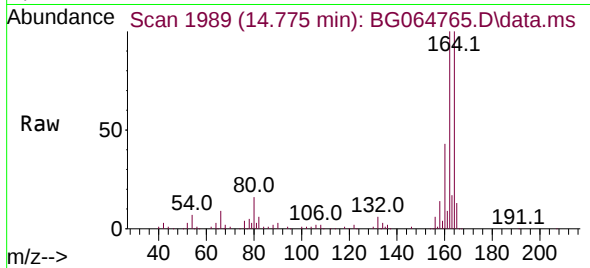




#51
2,6-Dinitrotoluene
Concen: 8.580 ng
RT: 14.775 min Scan# 1914
Delta R.T. 0.438 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

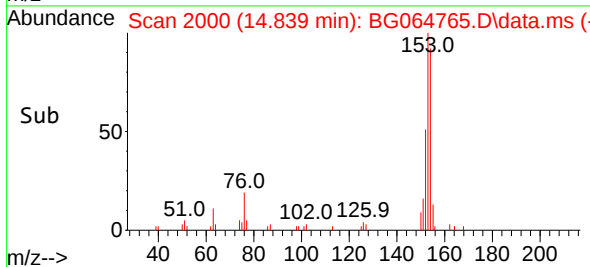
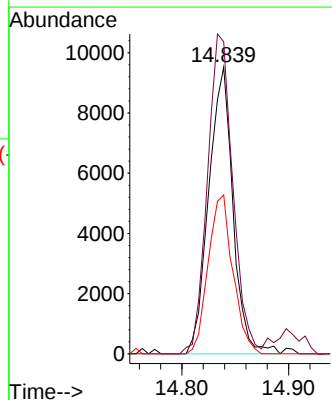
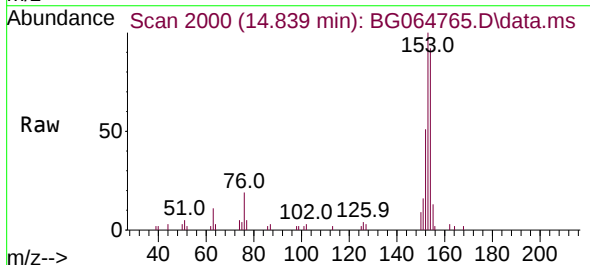
Instrument :
BNA_G
ClientSampleId :
COMP-2

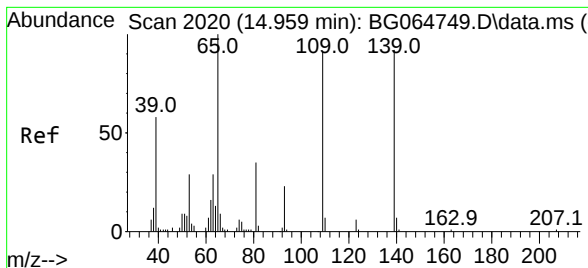
Tgt Ion:165 Resp: 13066
Ion Ratio Lower Upper
165 100
63 0.0 49.8 74.8#
89 0.0 45.0 67.4#



#52
Acenaphthene
Concen: 2.591 ng
RT: 14.839 min Scan# 2000
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:154 Resp: 15045
Ion Ratio Lower Upper
154 100
153 108.9 93.0 139.4
152 55.4 44.4 66.6

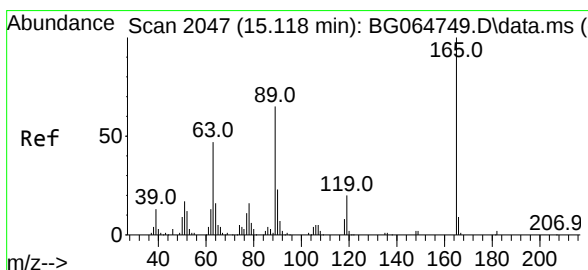
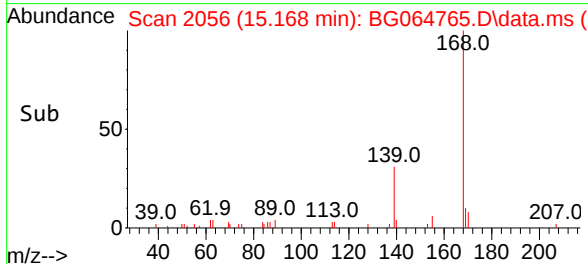
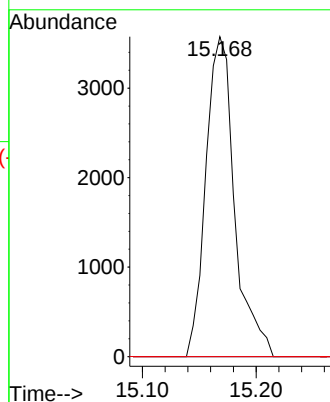
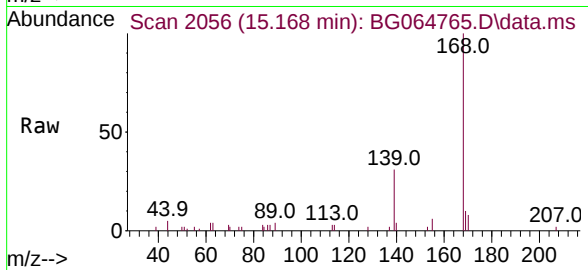




#56
4-Nitrophenol
Concen: 5.265 ng
RT: 15.168 min Scan# 2056
Delta R.T. 0.209 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

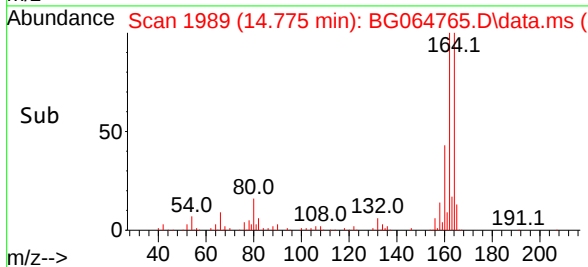
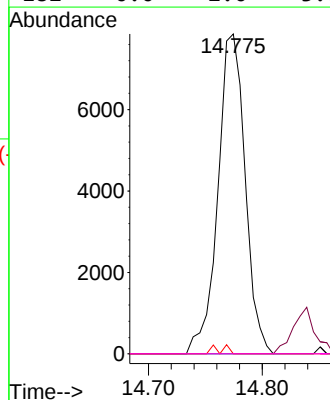
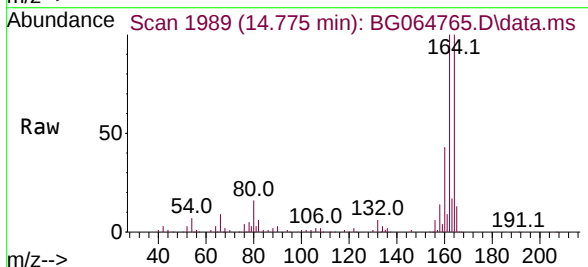
Instrument :
BNA_G
ClientSampleId :
COMP-2

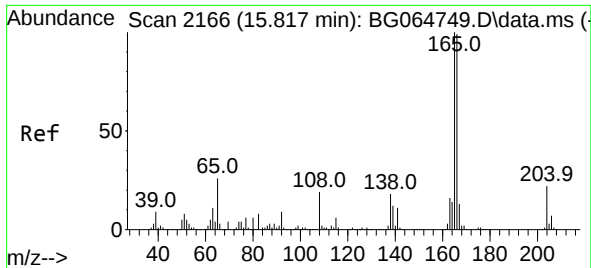
Tgt Ion:139 Resp: 6278
Ion Ratio Lower Upper
139 100
109 0.0 79.7 119.7#
65 0.0 89.9 129.9#



#57
2,4-Dinitrotoluene
Concen: 5.723 ng
RT: 14.775 min Scan# 1989
Delta R.T. -0.343 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:165 Resp: 13066
Ion Ratio Lower Upper
165 100
63 0.0 37.8 56.6#
89 0.0 51.6 77.4#
182 0.0 2.0 3.0#

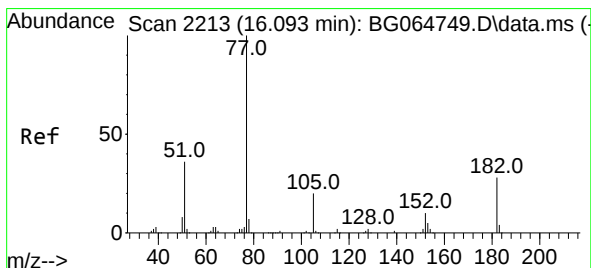
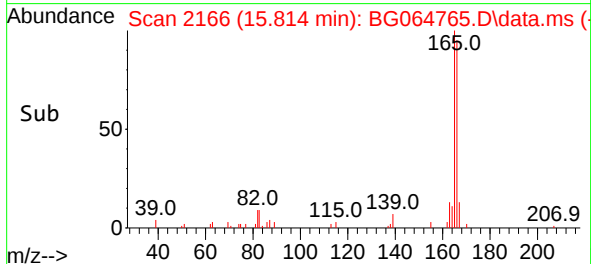
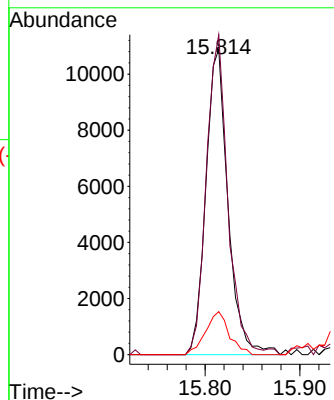
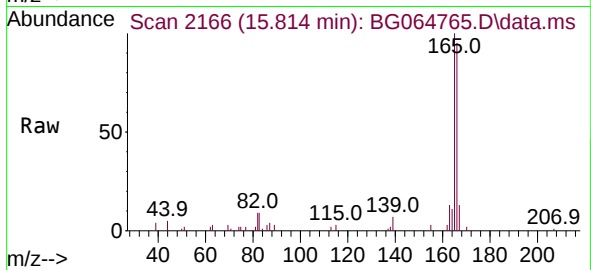




#58
 Fluorene
 Concen: 2.350 ng
 RT: 15.814 min Scan# 2166
 Delta R.T. -0.003 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

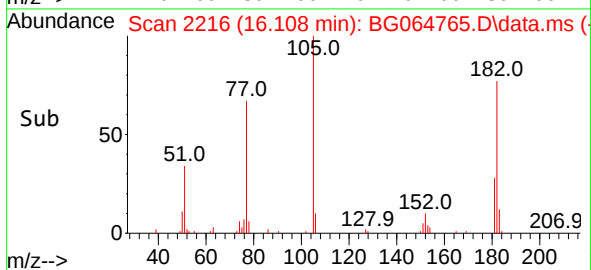
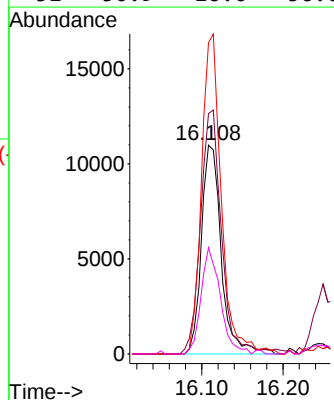
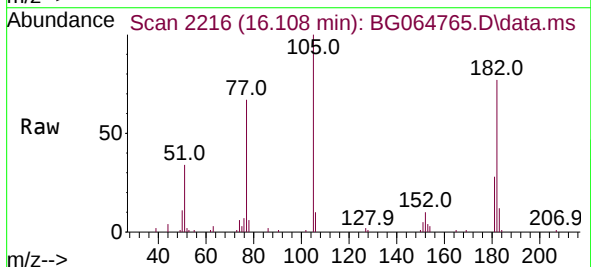
Instrument :
 BNA_G
 ClientSampleId :
 COMP-2

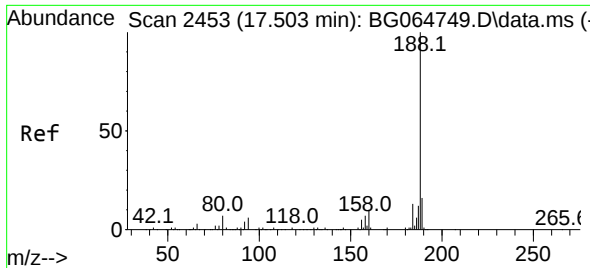
Tgt Ion:166 Resp: 17694
 Ion Ratio Lower Upper
 166 100
 165 104.7 80.5 120.7
 167 14.1 10.3 15.5



#63
 Azobenzene
 Concen: 2.958 ng
 RT: 16.108 min Scan# 2216
 Delta R.T. 0.015 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

Tgt Ion: 77 Resp: 18652
 Ion Ratio Lower Upper
 77 100
 182 115.1 8.1 48.1#
 105 149.2 0.1 40.1#
 51 50.9 16.0 56.0

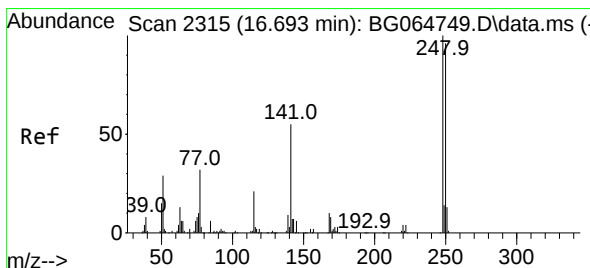
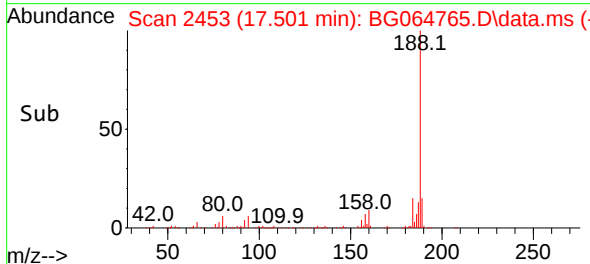
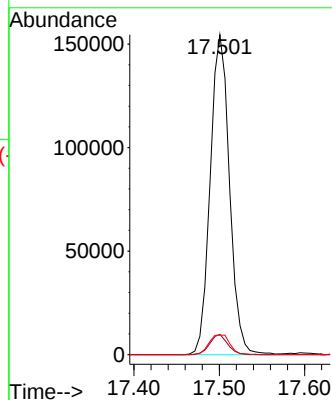
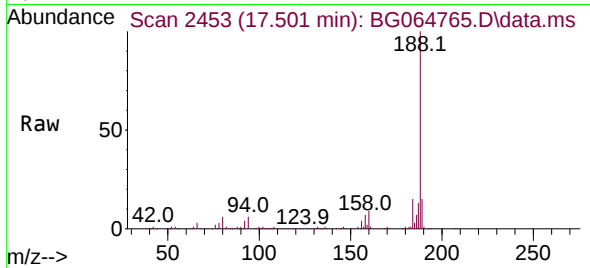




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.501 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

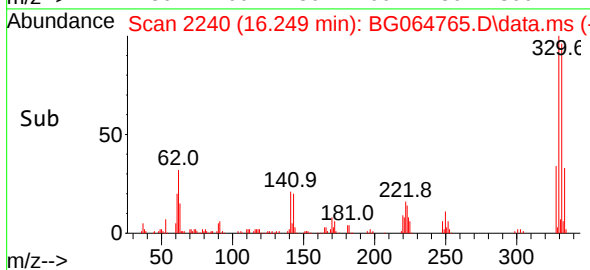
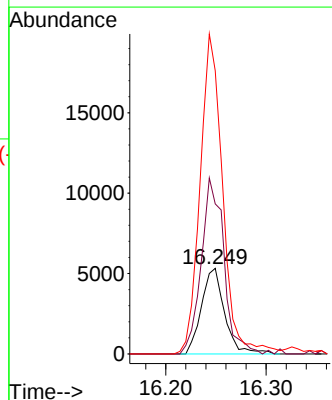
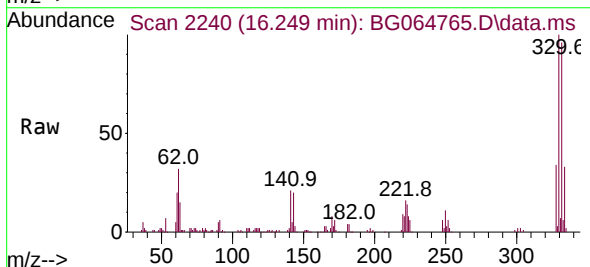
Instrument :
BNA_G
ClientSampleId :
COMP-2

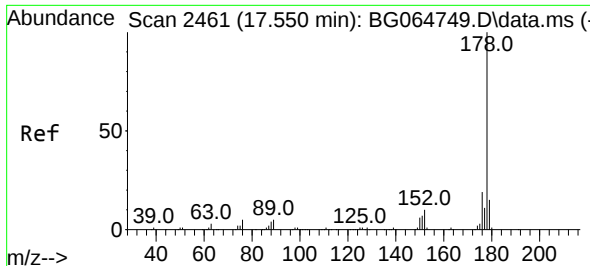
Tgt Ion:188 Resp: 242440
Ion Ratio Lower Upper
188 100
94 6.3 4.7 7.1
80 6.1 5.4 8.2



#67
4-Bromophenyl-phenylether
Concen: 2.669 ng
RT: 16.249 min Scan# 2240
Delta R.T. -0.443 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:248 Resp: 8498
Ion Ratio Lower Upper
248 100
250 226.6 77.0 115.6#
141 330.9 43.7 65.5#

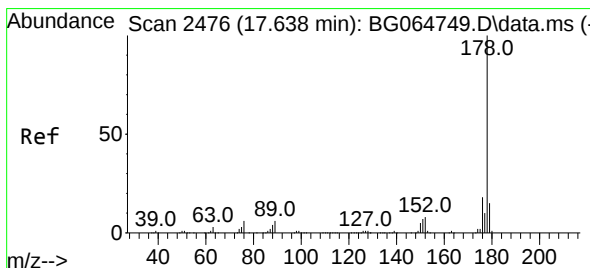
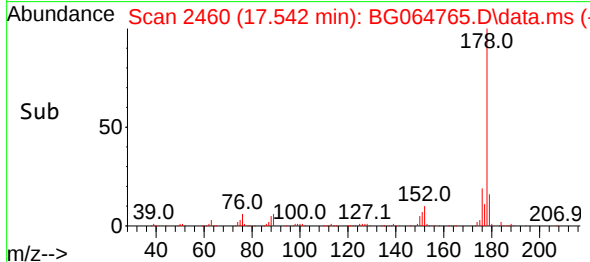
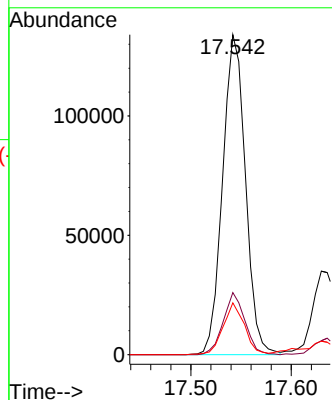
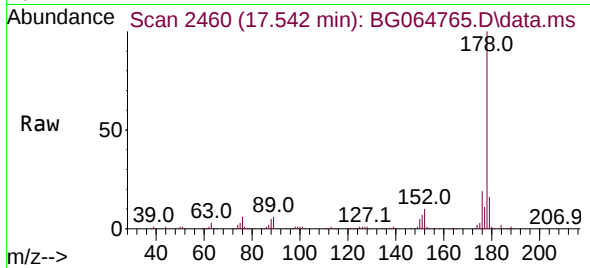




#71
Phenanthrene
Concen: 16.007 ng
RT: 17.542 min Scan# 2460
Delta R.T. -0.009 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

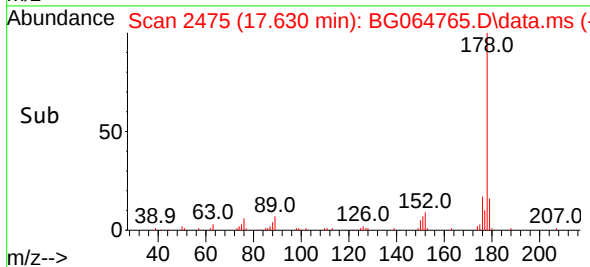
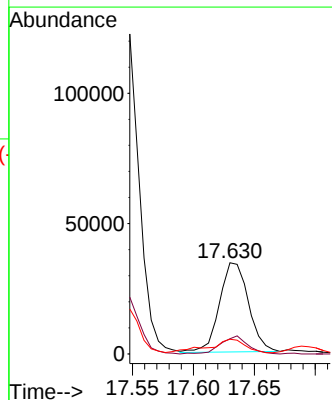
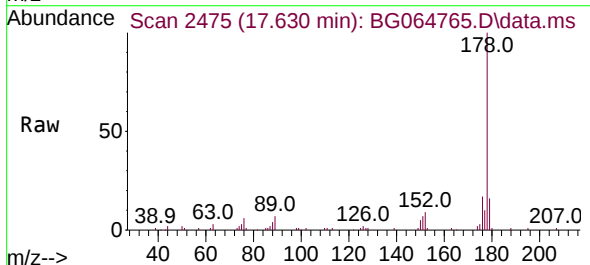
Instrument :
BNA_G
ClientSampleId :
COMP-2

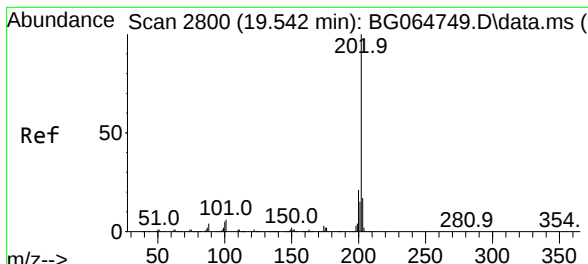
Tgt Ion:178 Resp: 212326
Ion Ratio Lower Upper
178 100
176 19.4 14.8 22.2
179 16.2 12.2 18.4



#72
Anthracene
Concen: 4.205 ng
RT: 17.630 min Scan# 2475
Delta R.T. -0.009 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:178 Resp: 56878
Ion Ratio Lower Upper
178 100
176 16.7 14.5 21.7
179 16.0 12.2 18.4



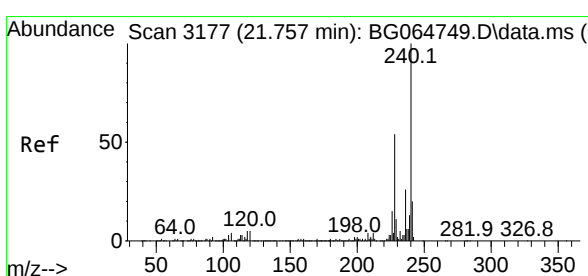
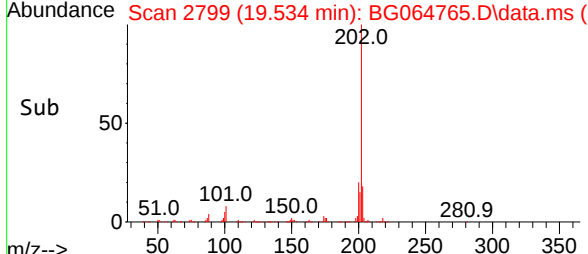
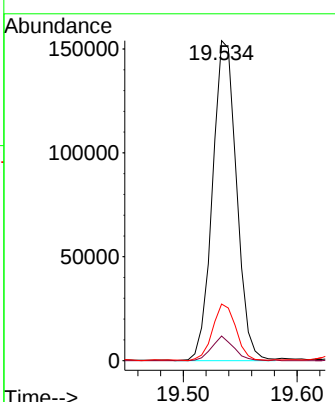
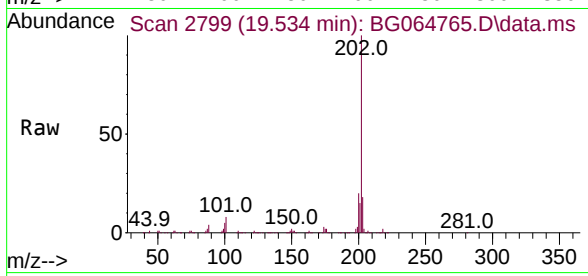


#75
 Fluoranthene
 Concen: 12.477 ng
 RT: 19.534 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

Instrument :
 BNA_G
 ClientSampleId :
 COMP-2

Tgt Ion: 202 Resp: 226323

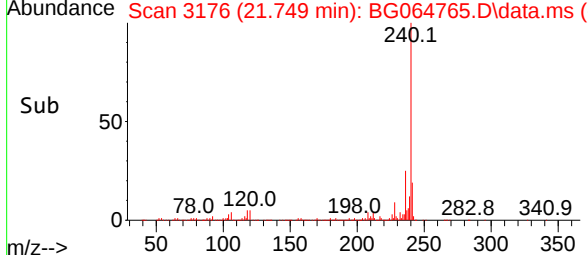
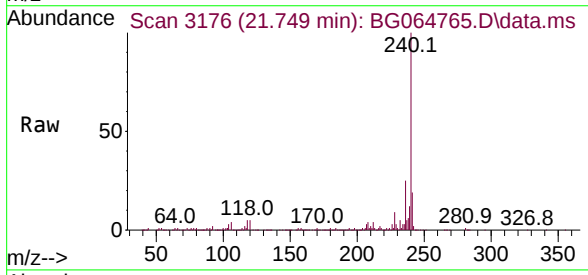
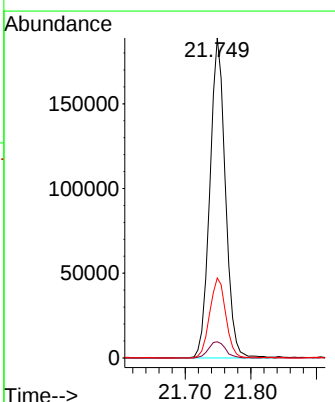
Ion	Ratio	Lower	Upper
202	100		
101	7.7	0.0	26.4
203	17.7	0.0	37.5

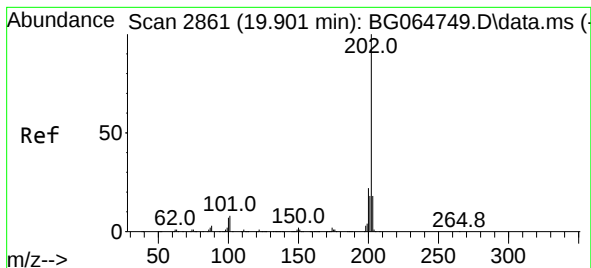


#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.749 min Scan# 3176
 Delta R.T. -0.009 min
 Lab File: BG064765.D
 Acq: 13 Nov 2025 20:46

Tgt Ion: 240 Resp: 310729

Ion	Ratio	Lower	Upper
240	100		
120	5.0	4.2	6.4
236	25.0	20.8	31.2





#78

Pyrene

Concen: 11.837 ng

RT: 19.892 min Scan# 2860

Delta R.T. -0.009 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

Instrument :

BNA_G

ClientSampleId :

COMP-2

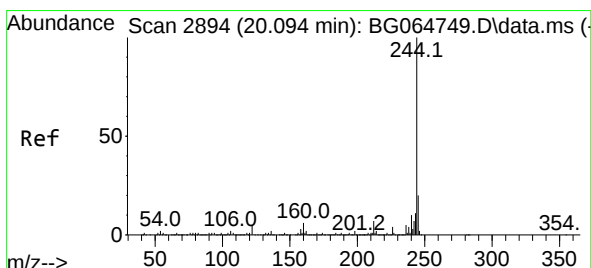
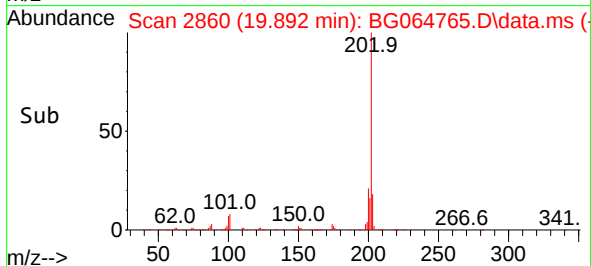
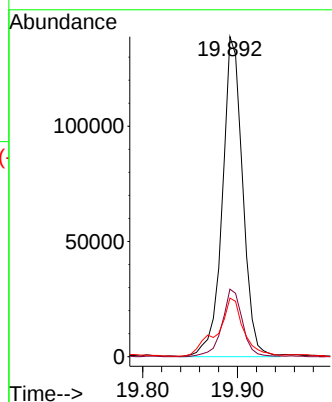
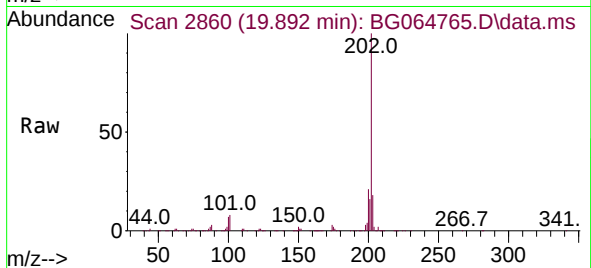
Tgt Ion:202 Resp: 206147

Ion Ratio Lower Upper

202 100

200 21.1 17.9 26.9

203 18.3 14.0 21.0



#79

Terphenyl-d14

Concen: 47.960 ng

RT: 20.086 min Scan# 2893

Delta R.T. -0.009 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

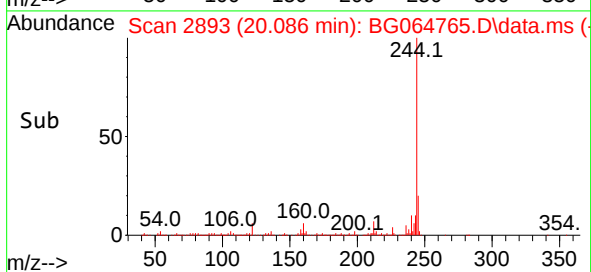
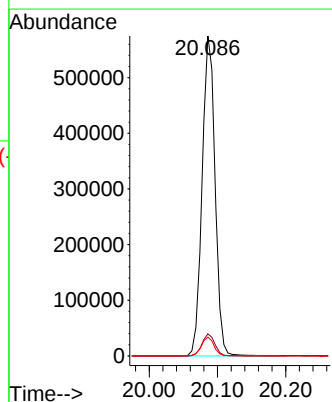
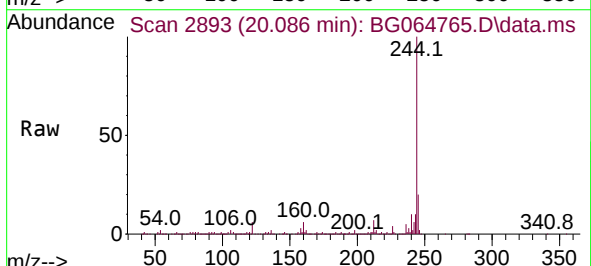
Tgt Ion:244 Resp: 757598

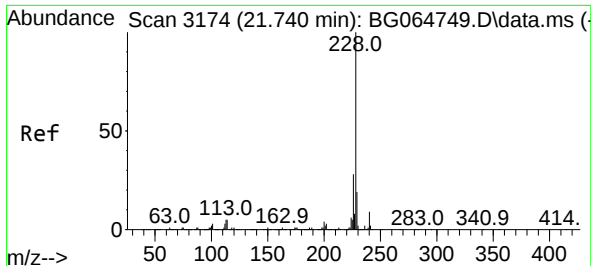
Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.6

122 5.9 4.3 6.5

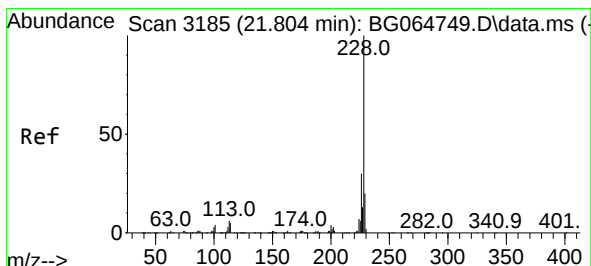
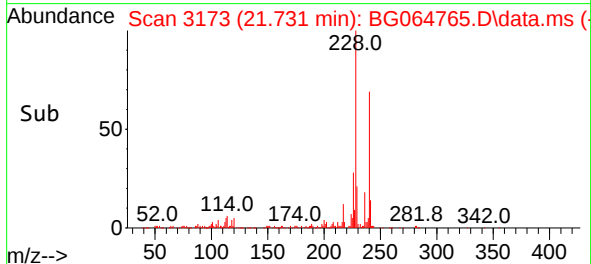
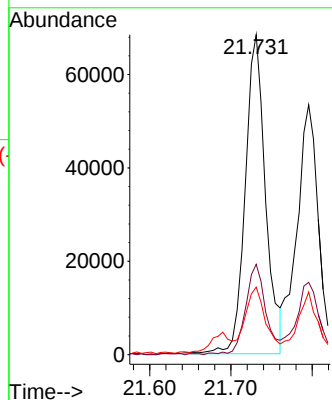
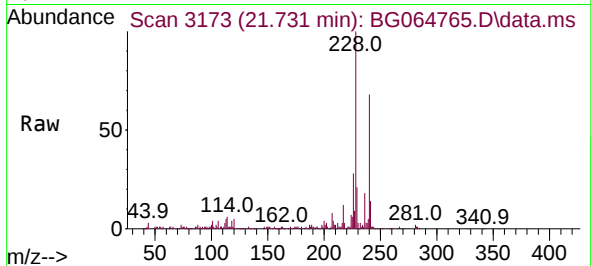




#81
Benzo(a)anthracene
Concen: 5.600 ng
RT: 21.731 min Scan# 3173
Delta R.T. -0.009 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

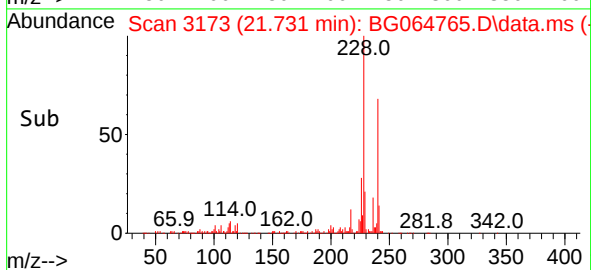
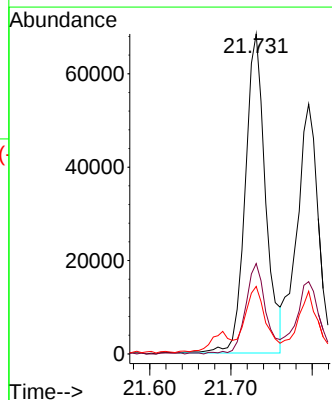
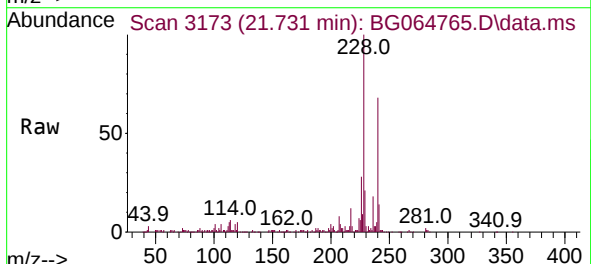
Instrument :
BNA_G
ClientSampleId :
COMP-2

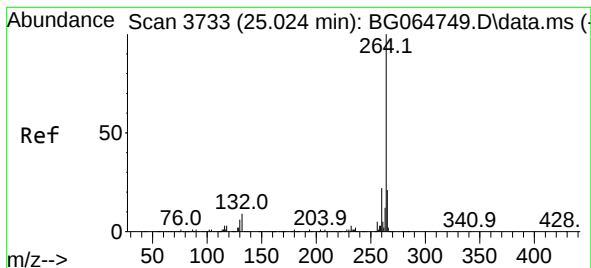
Tgt Ion:228 Resp: 118317
Ion Ratio Lower Upper
228 100
226 28.2 22.1 33.1
229 21.1 15.5 23.3



#83
Chrysene
Concen: 5.940 ng
RT: 21.731 min Scan# 3173
Delta R.T. -0.073 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:228 Resp: 118317
Ion Ratio Lower Upper
228 100
226 28.2 24.2 36.2
229 21.1 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.010 min Scan# 31

Delta R.T. -0.014 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

Instrument :

BNA_G

ClientSampleId :

COMP-2

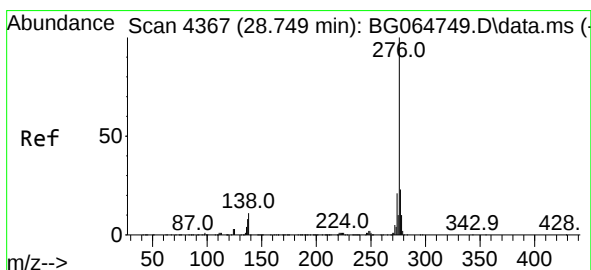
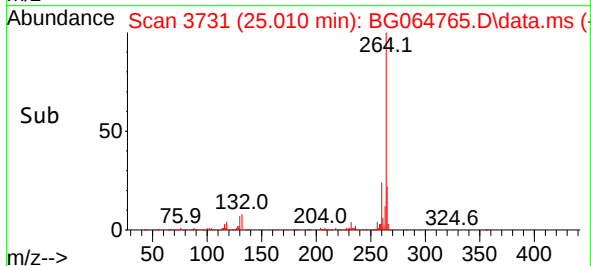
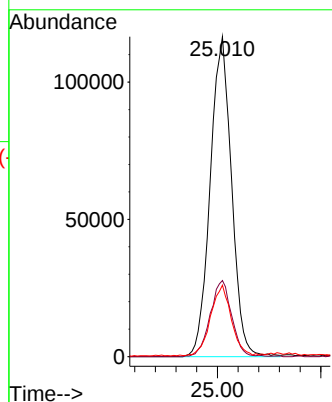
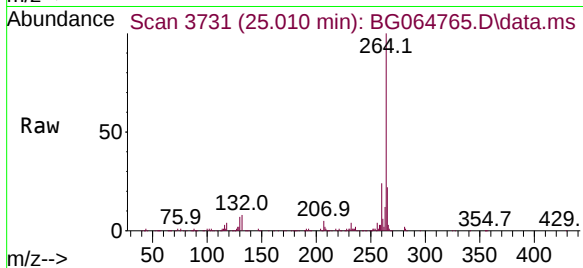
Tgt Ion:264 Resp: 334431

Ion Ratio Lower Upper

264 100

260 23.8 17.2 25.8

265 22.3 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.346 ng

RT: 28.723 min Scan# 4363

Delta R.T. -0.026 min

Lab File: BG064765.D

Acq: 13 Nov 2025 20:46

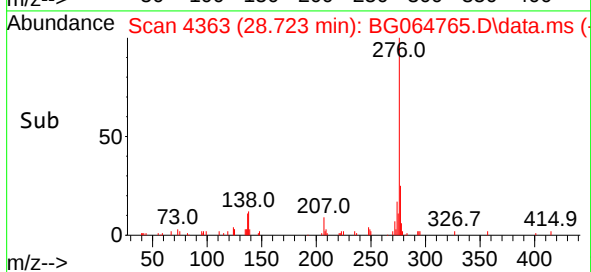
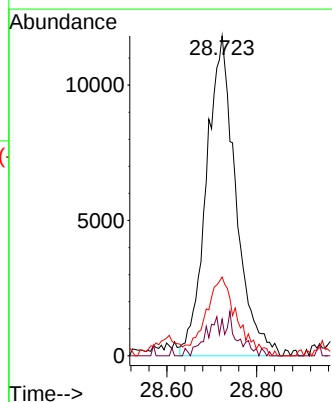
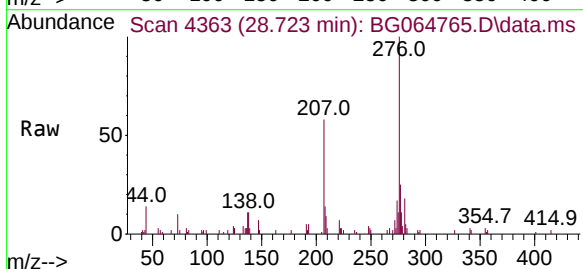
Tgt Ion:276 Resp: 53897

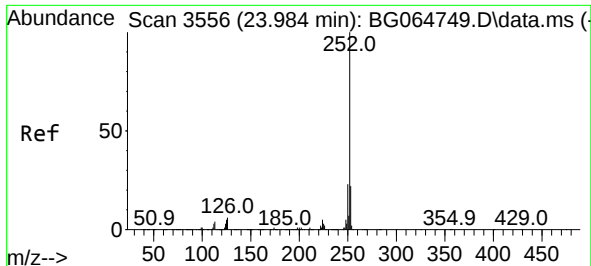
Ion Ratio Lower Upper

276 100

138 6.9 4.5 6.7#

277 26.0 20.0 30.0

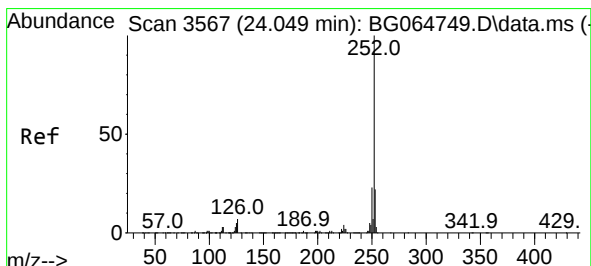
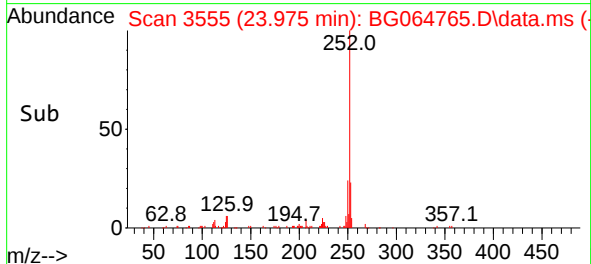
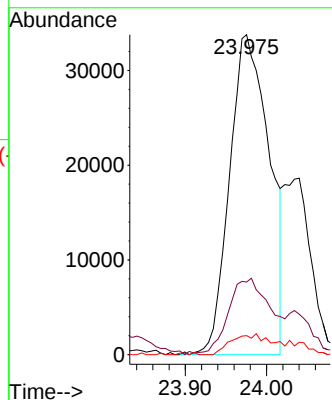
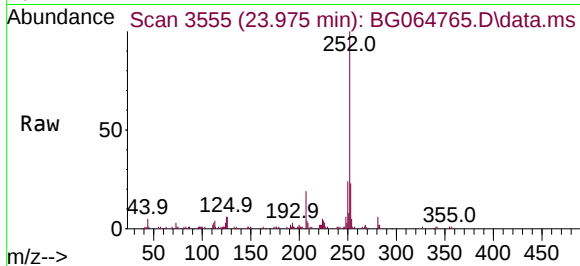




#88
Benzo(b)fluoranthene
Concen: 5.400 ng
RT: 23.975 min Scan# 31
Delta R.T. -0.009 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

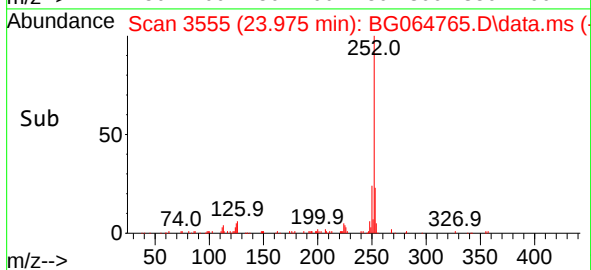
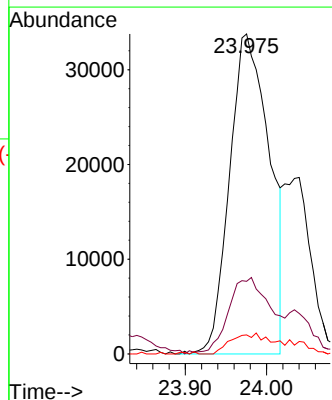
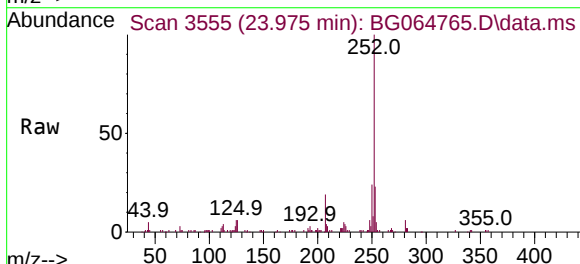
Instrument :
BNA_G
ClientSampleId :
COMP-2

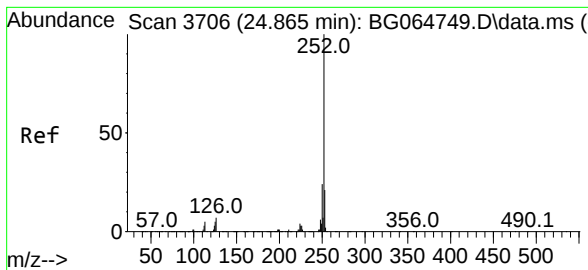
Tgt Ion:252 Resp: 114929
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 5.9 4.2 6.2



#89
Benzo(k)fluoranthene
Concen: 5.375 ng
RT: 23.975 min Scan# 3555
Delta R.T. -0.073 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:252 Resp: 114929
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.8
125 5.9 4.1 6.1

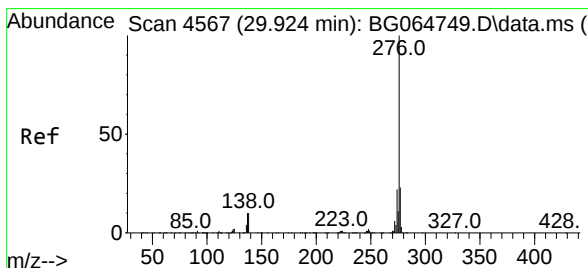
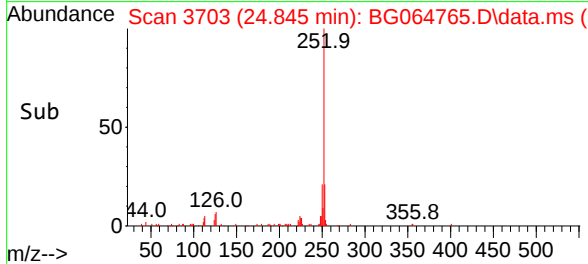
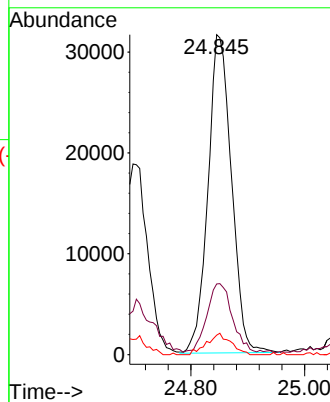
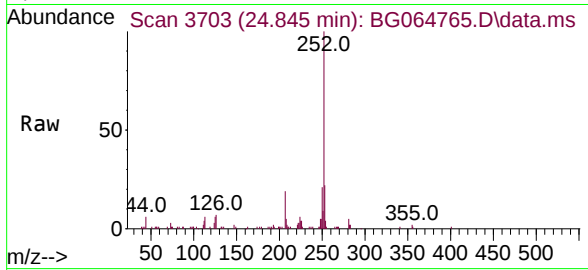




#90
Benzo(a)pyrene
Concen: 4.586 ng
RT: 24.845 min Scan# 31
Delta R.T. -0.020 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Instrument :
BNA_G
ClientSampleId :
COMP-2

Tgt Ion:252	Resp:	90542
Ion Ratio	Lower	Upper
252	100	
253	22.1	16.9 25.3
125	6.1	4.2 6.4



#92
Benzo(g,h,i)perylene
Concen: 2.705 ng
RT: 29.874 min Scan# 4559
Delta R.T. -0.050 min
Lab File: BG064765.D
Acq: 13 Nov 2025 20:46

Tgt Ion:276	Resp:	48999
Ion Ratio	Lower	Upper
276	100	
277	22.1	18.0 27.0
138	14.5	8.2 12.2#

