

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120925\
 Data File : BG064914.D
 Acq On : 9 Dec 2025 21:05
 Operator : RC/JU
 Sample : Q3790-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL

Quant Time: Dec 10 00:16:59 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)

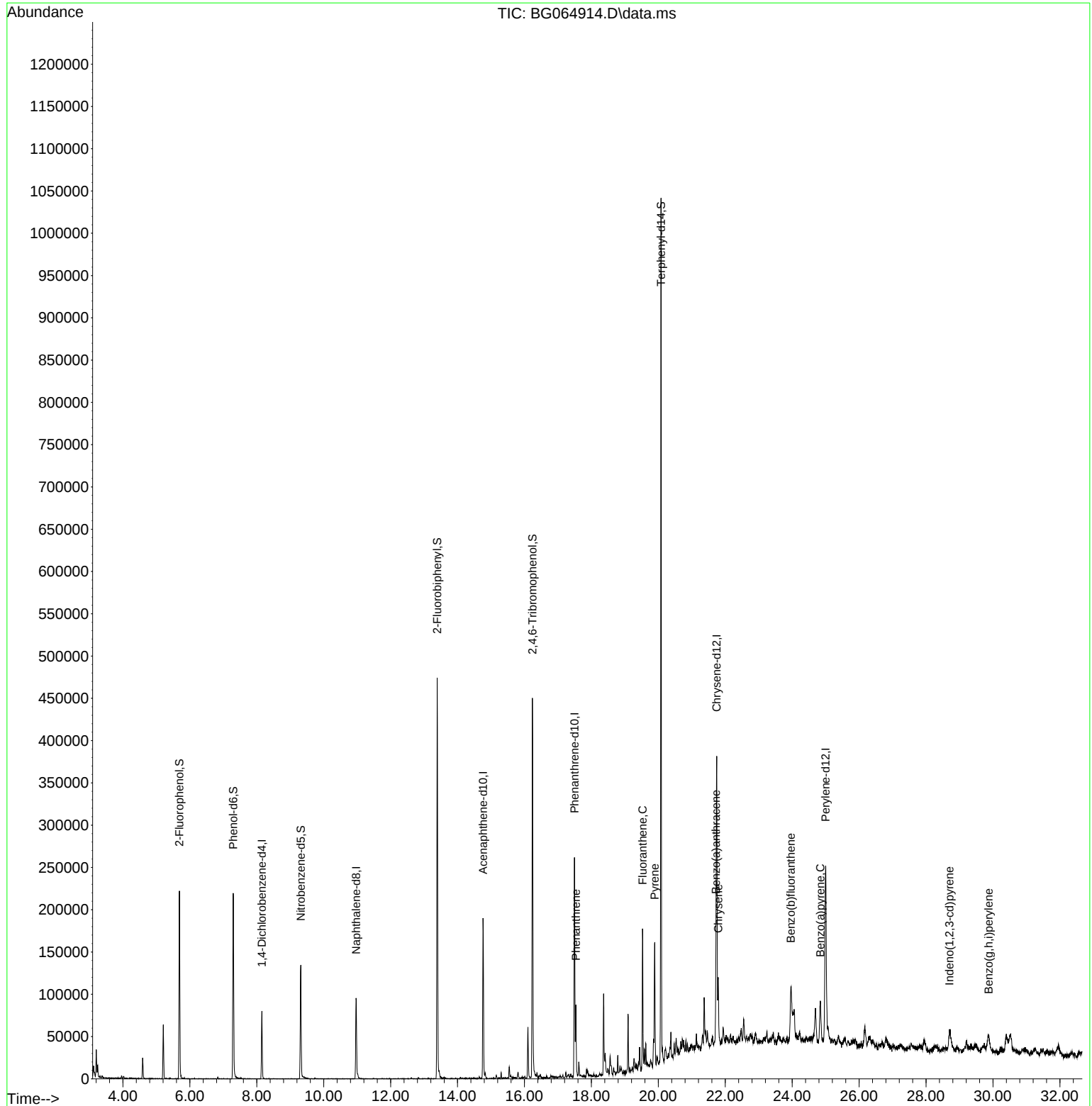
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.153	152	22406	20.000	ng	-0.01
21) Naphthalene-d8	10.967	136	90673	20.000	ng	#-0.02
39) Acenaphthene-d10	14.762	164	79761	20.000	ng	-0.01
64) Phenanthrene-d10	17.495	188	185242	20.000	ng	# 0.00
76) Chrysene-d12	21.742	240	225431	20.000	ng	#-0.01
86) Perylene-d12	24.997	264	259751	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.691	112	91395	71.229	ng	0.00
7) Phenol-d6	7.295	99	121147	70.987	ng	-0.01
23) Nitrobenzene-d5	9.316	82	78672	42.899	ng	-0.01
42) 2,4,6-Tribromophenol	16.237	330	123582	79.444	ng	-0.01
45) 2-Fluorobiphenyl	13.393	172	272815	47.726	ng	-0.01
79) Terphenyl-d14	20.080	244	561312	48.980	ng	-0.01
Target Compounds						
						Qvalue
71) Phenanthrene	17.536	178	58687	5.790	ng	99
75) Fluoranthene	19.527	202	115067	8.302	ng	97
78) Pyrene	19.886	202	108627	8.598	ng	99
81) Benzo(a)anthracene	21.719	228	67557	4.407	ng	99
83) Chrysene	21.789	228	61131	4.230	ng	96
87) Indeno(1,2,3-cd)pyrene	28.699	276	46109	2.584	ng	# 97
88) Benzo(b)fluoranthene	23.958	252	97334	5.888	ng	# 98
90) Benzo(a)pyrene	24.839	252	63633	4.150	ng	95
92) Benzo(g,h,i)perylene	29.868	276	49245	3.500	ng	95

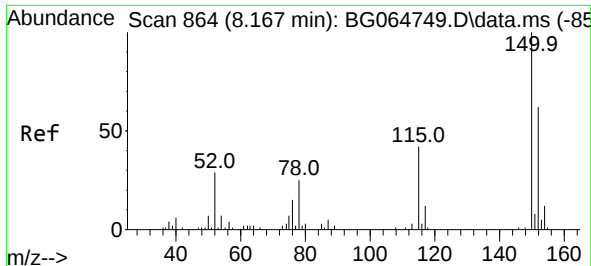
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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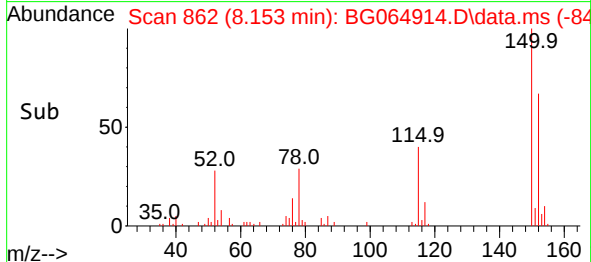
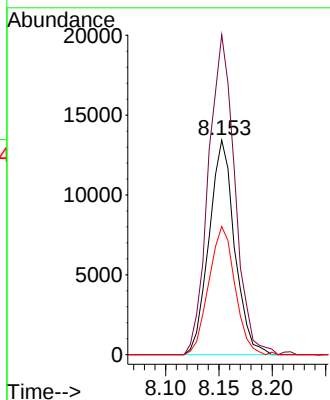
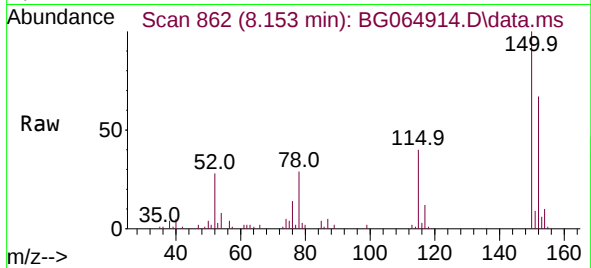




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.153 min Scan# 864
 Delta R.T. -0.014 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

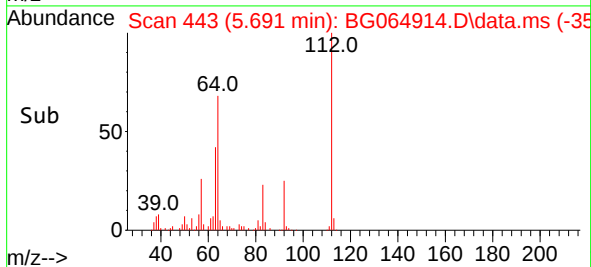
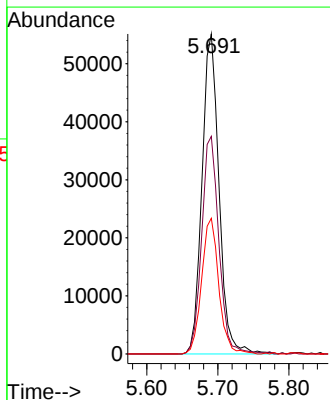
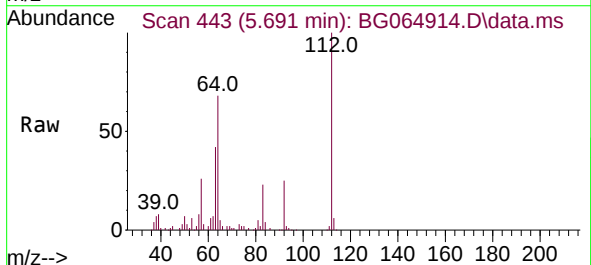
Instrument :
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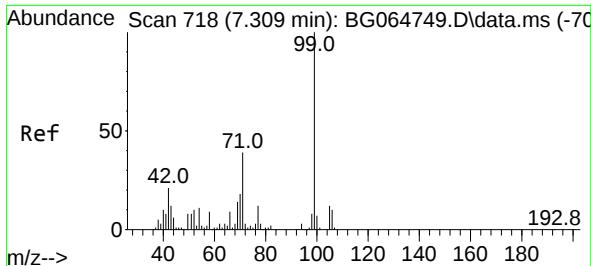
Tgt Ion:152 Resp: 22406
 Ion Ratio Lower Upper
 152 100
 150 149.2 129.2 193.8
 115 59.7 53.7 80.5



#5
 2-Fluorophenol
 Concen: 71.229 ng
 RT: 5.691 min Scan# 443
 Delta R.T. -0.009 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Tgt Ion:112 Resp: 91395
 Ion Ratio Lower Upper
 112 100
 64 68.0 61.0 91.4
 63 42.4 33.3 49.9

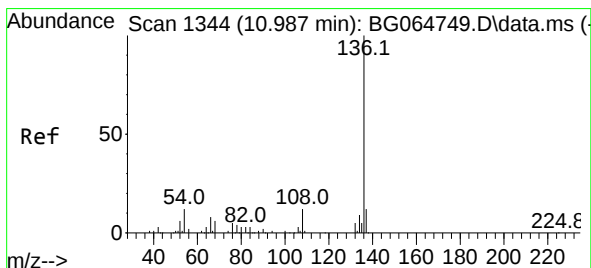
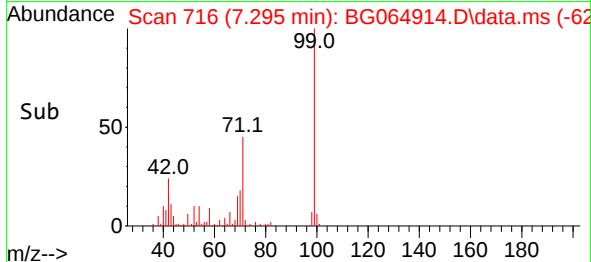
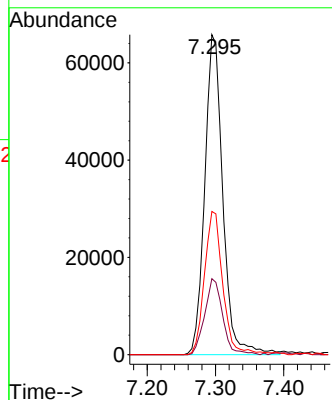
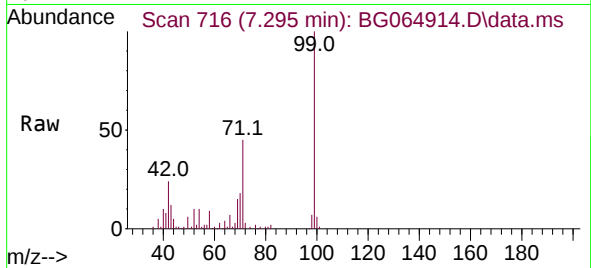




#7
Phenol-d6
Concen: 70.987 ng
RT: 7.295 min Scan# 716
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

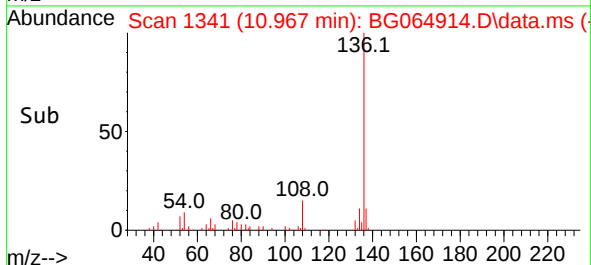
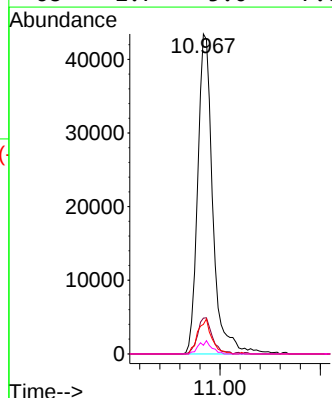
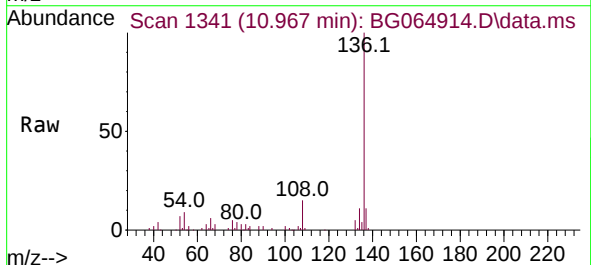
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

Tgt Ion: 99 Resp: 121147
Ion Ratio Lower Upper
99 100
42 23.8 16.8 25.2
71 44.7 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.967 min Scan# 1341
Delta R.T. -0.020 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:136 Resp: 90673
Ion Ratio Lower Upper
136 100
137 11.2 9.3 13.9
54 9.2 9.3 13.9#
68 2.7 5.0 7.6#





#23

Nitrobenzene-d5

Concen: 42.899 ng

RT: 9.316 min Scan# 1060

Delta R.T. -0.015 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

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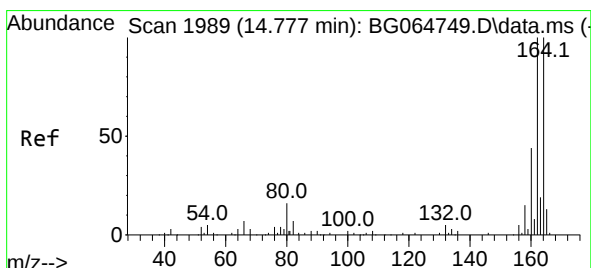
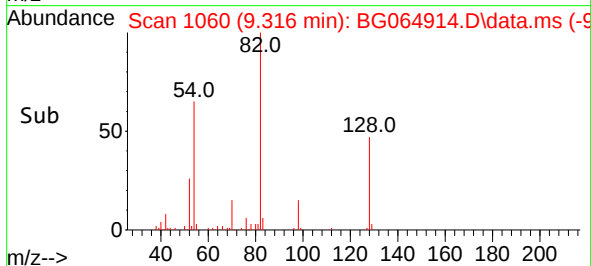
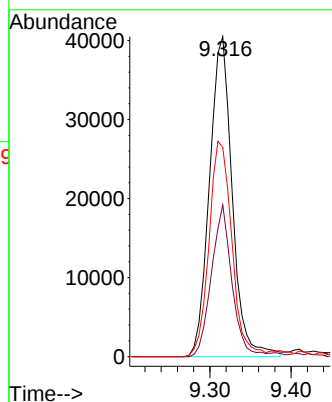
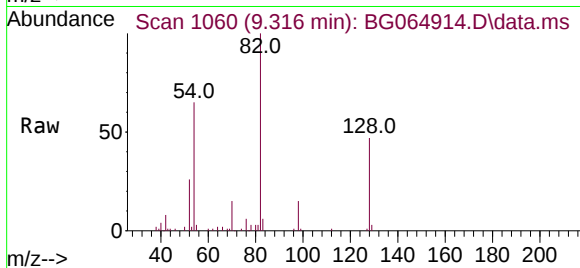
Tgt Ion: 82 Resp: 78672

Ion Ratio Lower Upper

82 100

128 47.4 34.1 51.1

54 65.3 54.3 81.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.762 min Scan# 1987

Delta R.T. -0.015 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

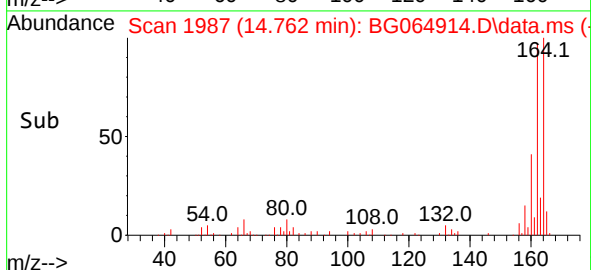
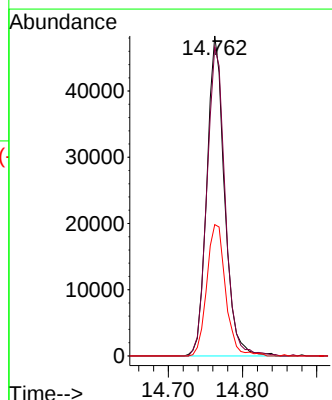
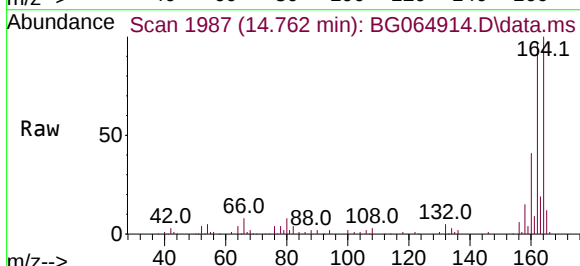
Tgt Ion: 164 Resp: 79761

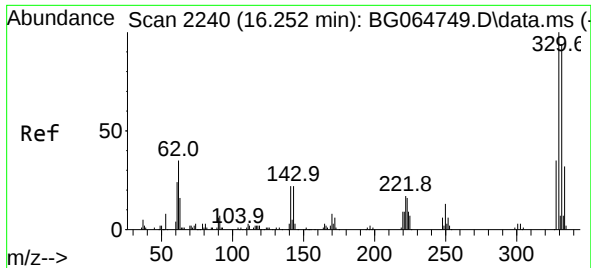
Ion Ratio Lower Upper

164 100

162 96.5 79.8 119.6

160 41.0 34.9 52.3

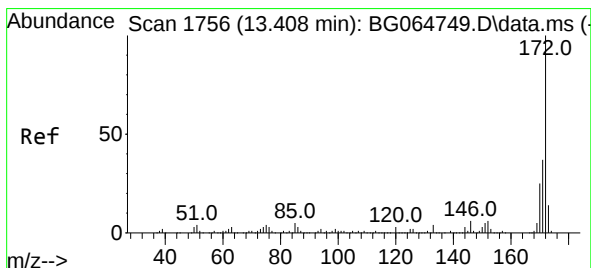
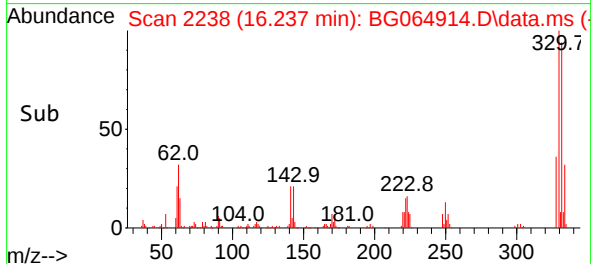
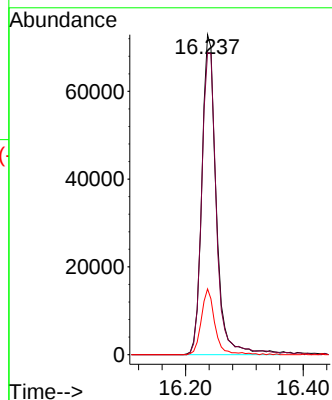
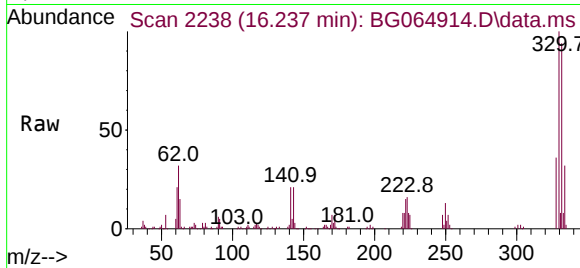




#42
2,4,6-Tribromophenol
Concen: 79.444 ng
RT: 16.237 min Scan# 21
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

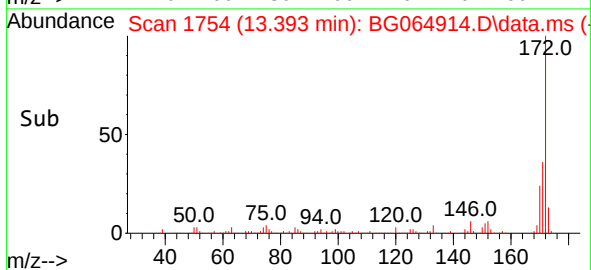
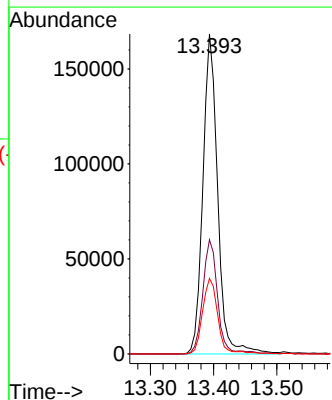
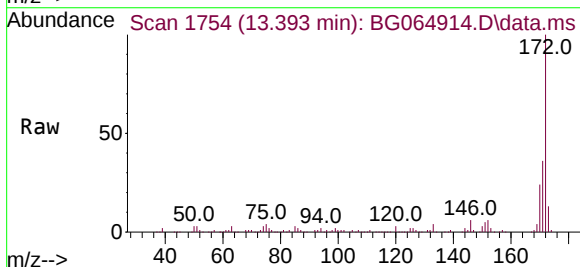
Instrument :
BNA_G
ClientSampleId :
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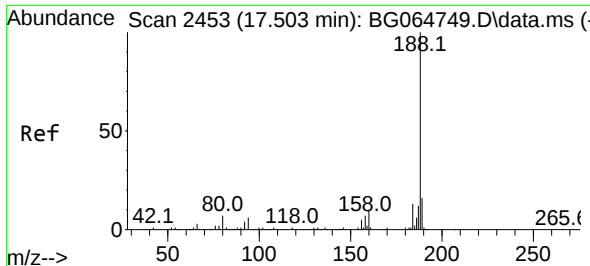
Tgt Ion:330 Resp: 123582
Ion Ratio Lower Upper
330 100
332 95.9 77.0 115.6
141 19.4 18.2 27.2



#45
2-Fluorobiphenyl
Concen: 47.726 ng
RT: 13.393 min Scan# 1754
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:172 Resp: 272815
Ion Ratio Lower Upper
172 100
171 35.7 29.9 44.9
170 23.6 19.8 29.6

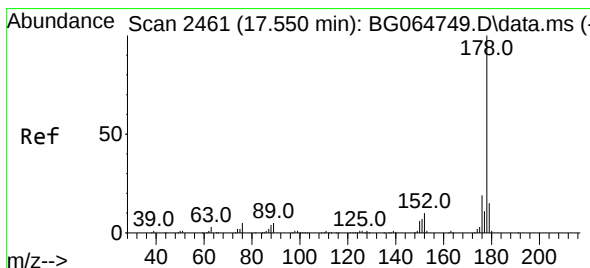
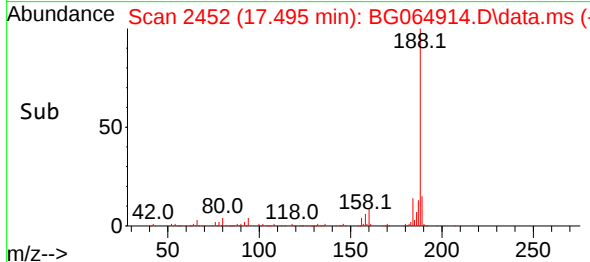
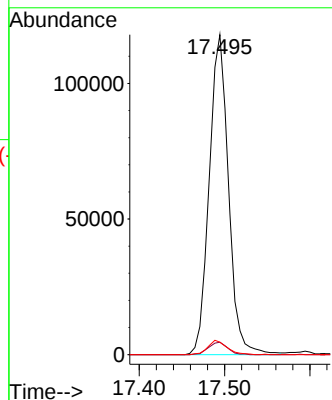
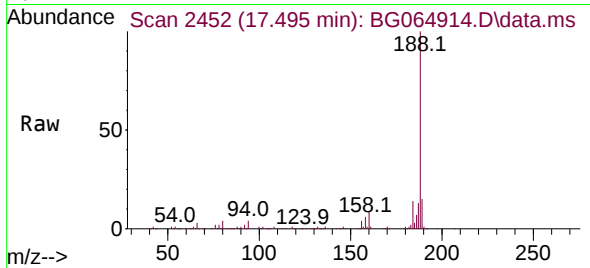




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.495 min Scan# 2452
Delta R.T. -0.009 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

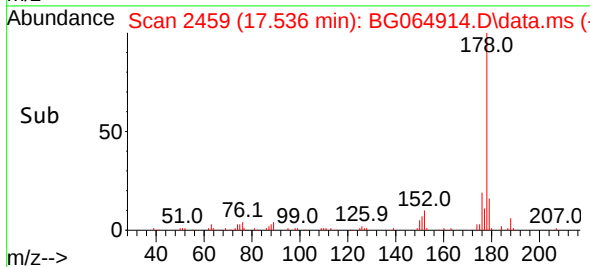
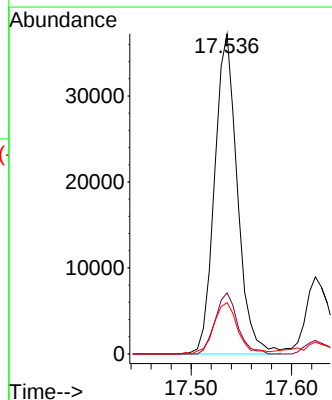
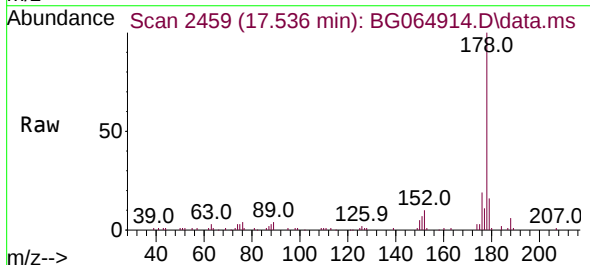
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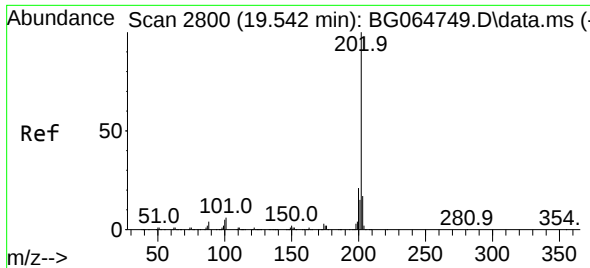
Tgt Ion:188 Resp: 185242
Ion Ratio Lower Upper
188 100
94 3.9 4.7 7.1#
80 3.9 5.4 8.2#



#71
Phenanthrene
Concen: 5.790 ng
RT: 17.536 min Scan# 2459
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:178 Resp: 58687
Ion Ratio Lower Upper
178 100
176 19.1 14.8 22.2
179 16.0 12.2 18.4

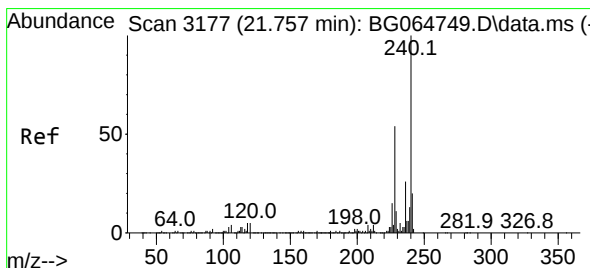
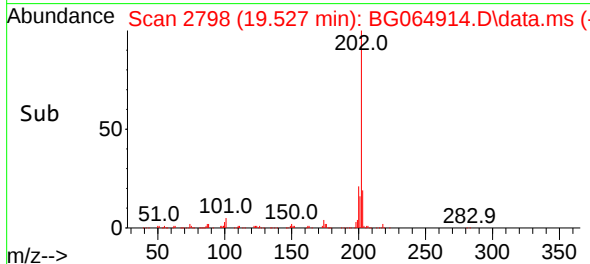
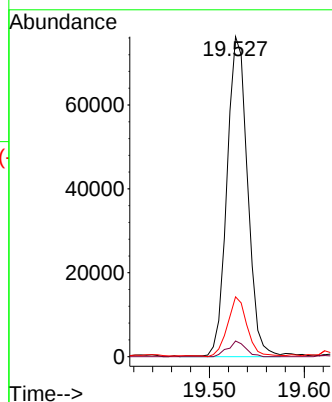
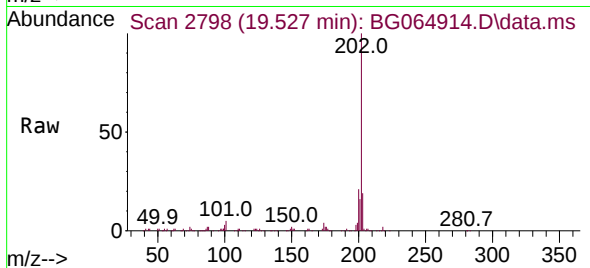




#75
Fluoranthene
Concen: 8.302 ng
RT: 19.527 min Scan# 21
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

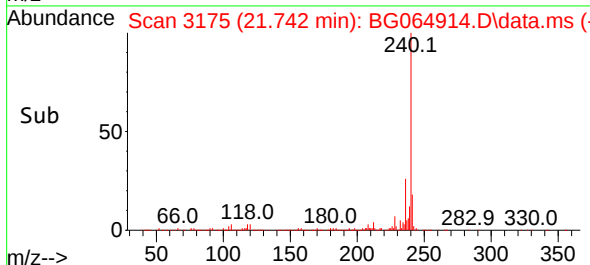
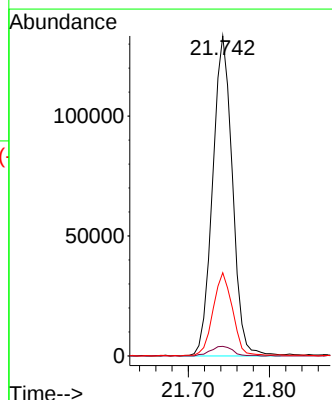
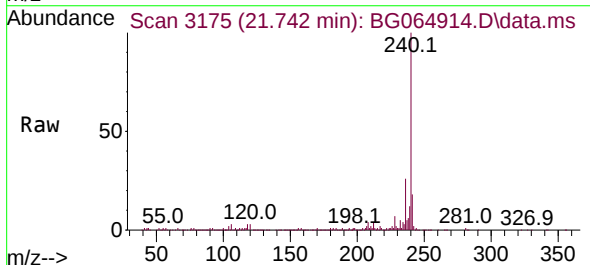
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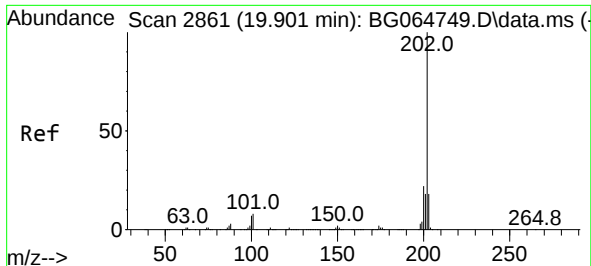
Tgt Ion:202 Resp: 115067
Ion Ratio Lower Upper
202 100
101 4.9 0.0 26.4
203 18.7 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.742 min Scan# 3175
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:240 Resp: 225431
Ion Ratio Lower Upper
240 100
120 3.0 4.2 6.4#
236 26.0 20.8 31.2

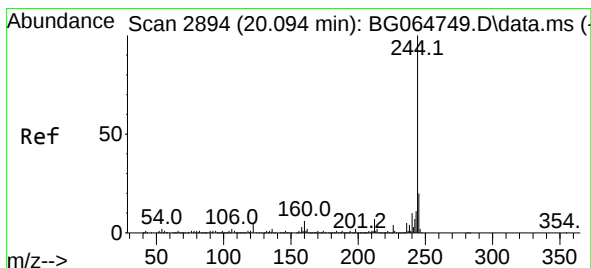
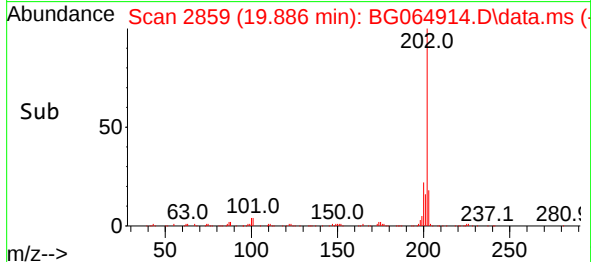
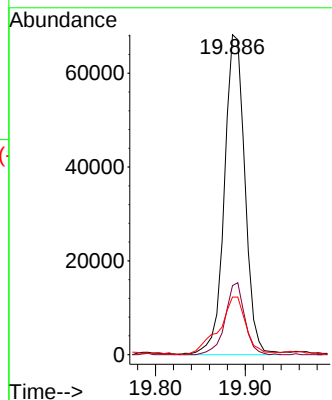
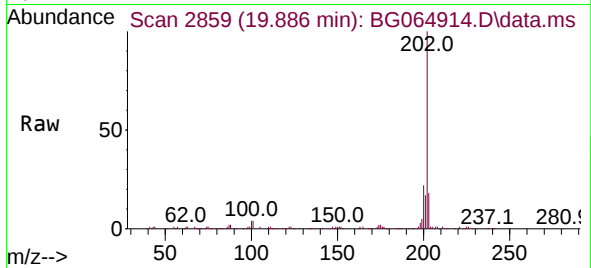




#78
 Pyrene
 Concen: 8.598 ng
 RT: 19.886 min Scan# 2859
 Delta R.T. -0.015 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

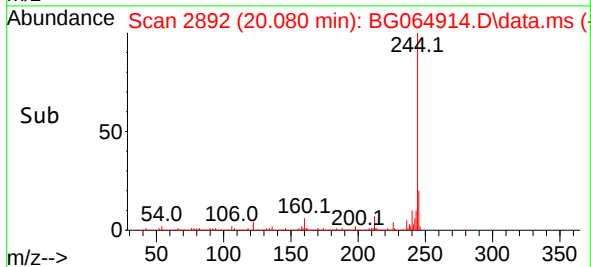
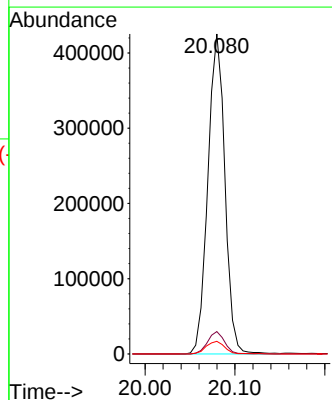
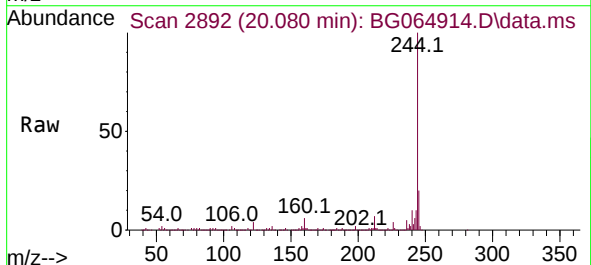
Instrument :
 BNA_G
 ClientSampleId :
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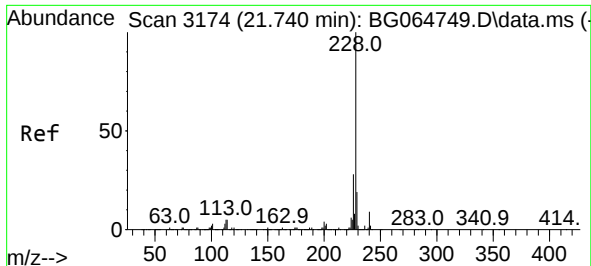
Tgt Ion:202 Resp: 108627
 Ion Ratio Lower Upper
 202 100
 200 21.6 17.9 26.9
 203 18.0 14.0 21.0



#79
 Terphenyl-d14
 Concen: 48.980 ng
 RT: 20.080 min Scan# 2892
 Delta R.T. -0.015 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Tgt Ion:244 Resp: 561312
 Ion Ratio Lower Upper
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 212 7.0 5.8 8.6
 122 3.9 4.3 6.5

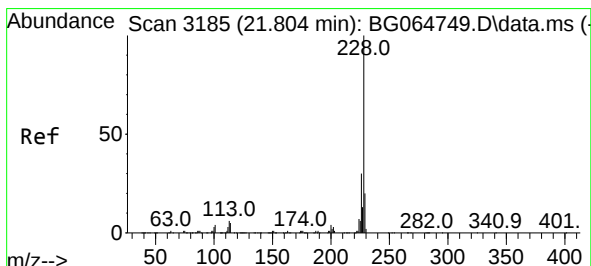
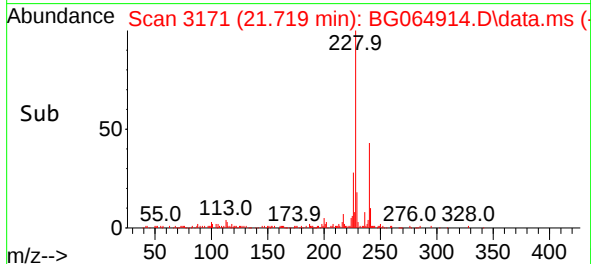
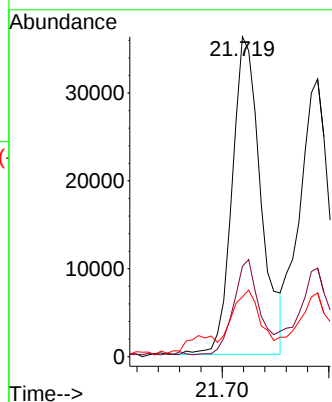
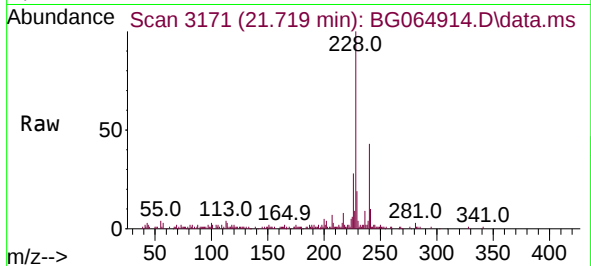




#81
Benzo(a)anthracene
Concen: 4.407 ng
RT: 21.719 min Scan# 3171
Delta R.T. -0.021 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

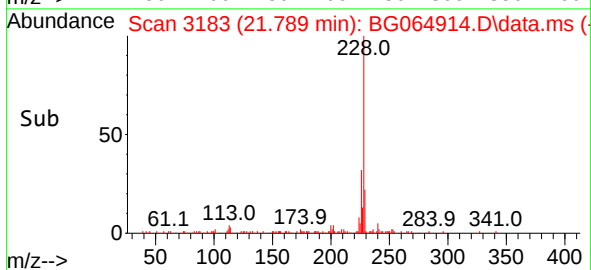
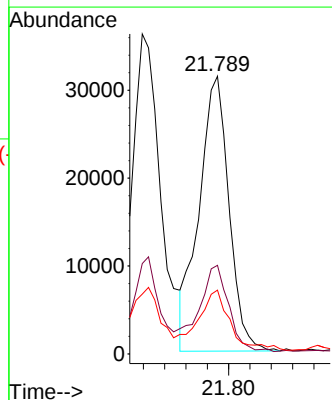
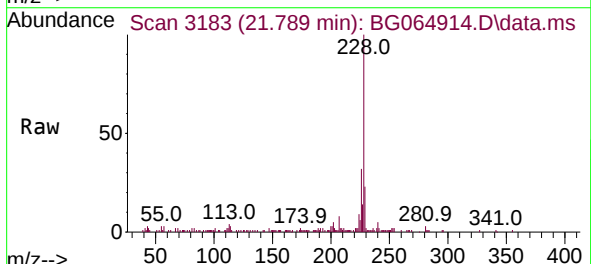
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

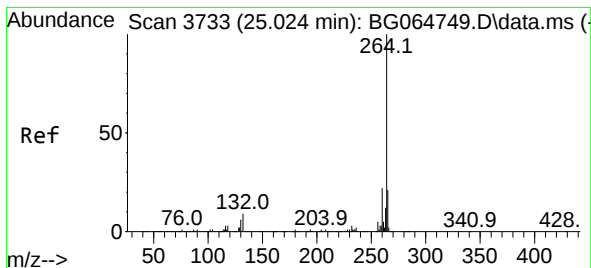
Tgt Ion:228 Resp: 67557
Ion Ratio Lower Upper
228 100
226 28.2 22.1 33.1
229 18.7 15.5 23.3



#83
Chrysene
Concen: 4.230 ng
RT: 21.789 min Scan# 3183
Delta R.T. -0.015 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

Tgt Ion:228 Resp: 61131
Ion Ratio Lower Upper
228 100
226 31.9 24.2 36.2
229 23.0 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.997 min Scan# 31

Delta R.T. -0.026 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

Instrument :

BNA_G

ClientSampleId :

304 FURMAN SOIL

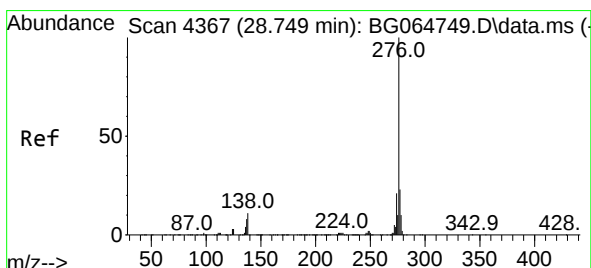
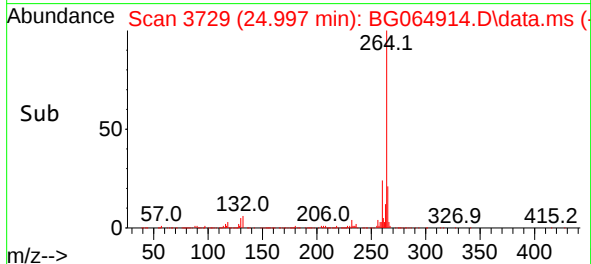
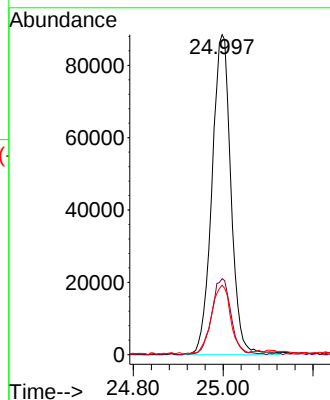
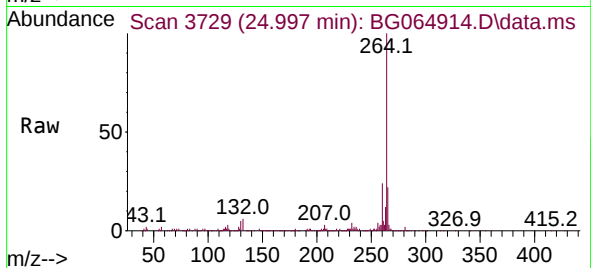
Tgt Ion:264 Resp: 259751

Ion Ratio Lower Upper

264 100

260 23.7 17.2 25.8

265 21.7 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.584 ng

RT: 28.699 min Scan# 4359

Delta R.T. -0.050 min

Lab File: BG064914.D

Acq: 9 Dec 2025 21:05

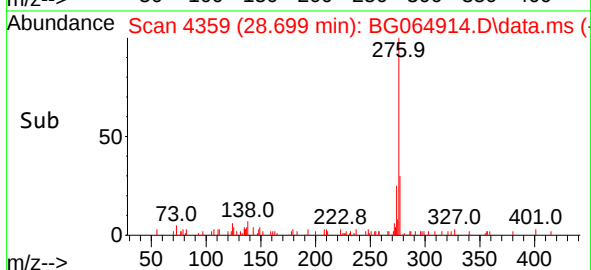
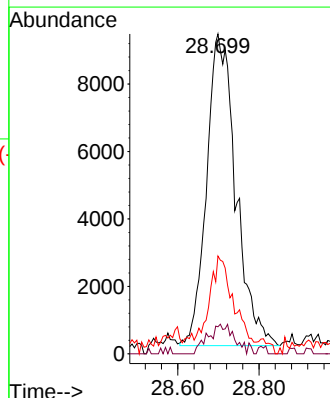
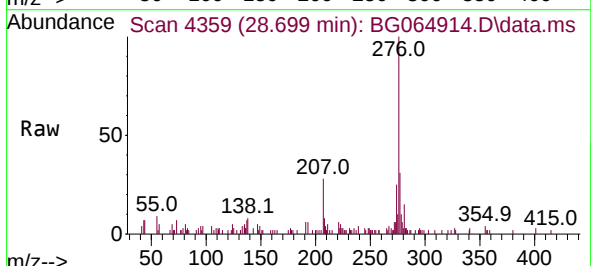
Tgt Ion:276 Resp: 46109

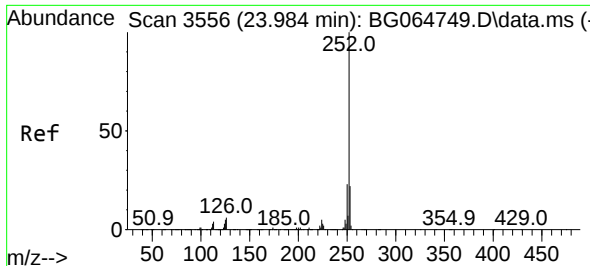
Ion Ratio Lower Upper

276 100

138 8.3 4.5 6.7#

277 24.3 20.0 30.0

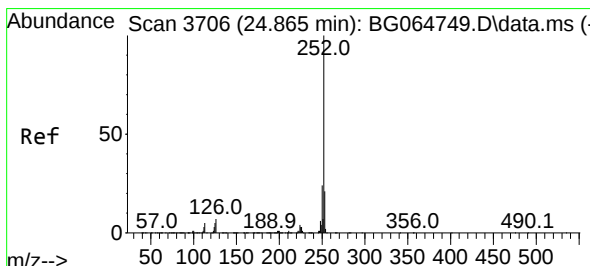
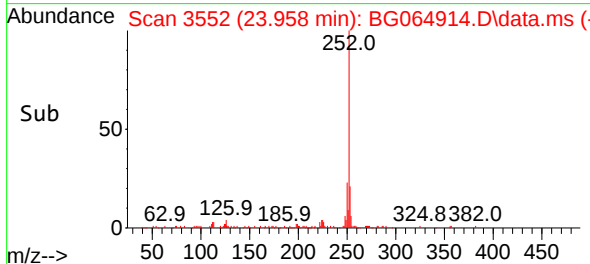
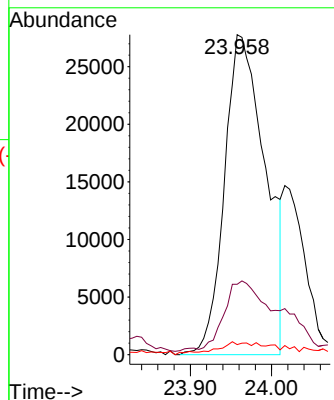
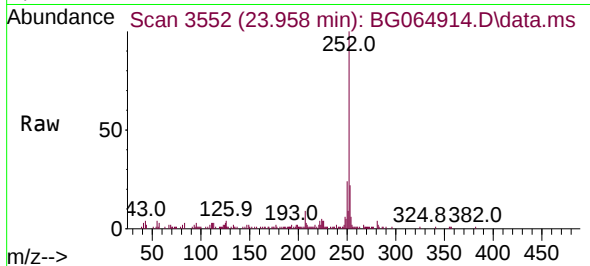




#88
Benzo(b)fluoranthene
Concen: 5.888 ng
RT: 23.958 min Scan# 31
Delta R.T. -0.026 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

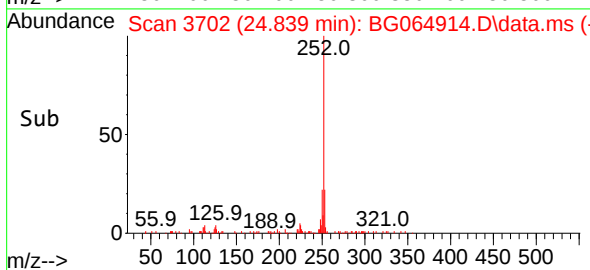
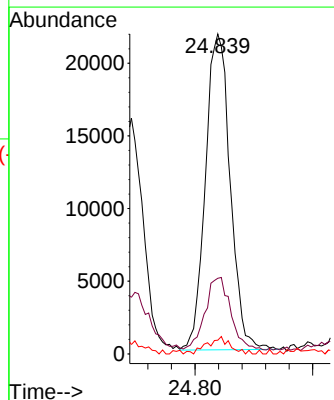
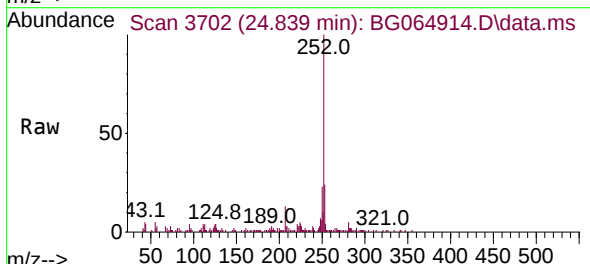
Instrument :
BNA_G
ClientSampleId :
304 FURMAN SOIL

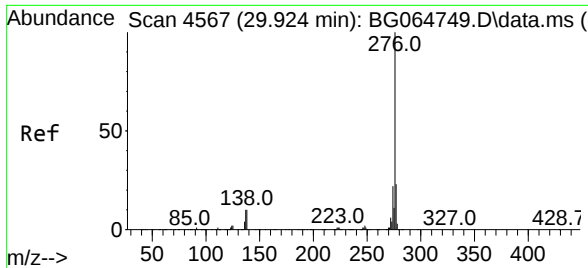
Tgt Ion:252 Resp: 97334
Ion Ratio Lower Upper
252 100
253 22.0 17.4 26.2
125 3.1 4.2 6.2#



#90
Benzo(a)pyrene
Concen: 4.150 ng
RT: 24.839 min Scan# 3702
Delta R.T. -0.026 min
Lab File: BG064914.D
Acq: 9 Dec 2025 21:05

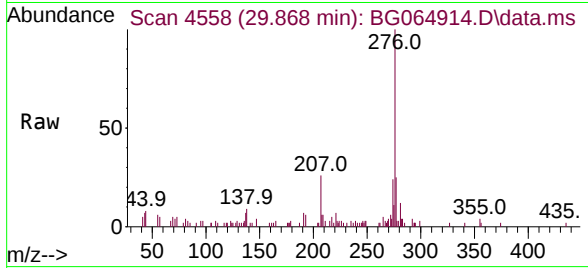
Tgt Ion:252 Resp: 63633
Ion Ratio Lower Upper
252 100
253 23.6 16.9 25.3
125 4.3 4.2 6.4





#92
 Benzo(g,h,i)perylene
 Concen: 3.500 ng
 RT: 29.868 min Scan# 41
 Delta R.T. -0.056 min
 Lab File: BG064914.D
 Acq: 9 Dec 2025 21:05

Instrument :
 BNA_G
 ClientSampleId :
 304 FURMAN SOIL



Tgt Ion:	276	Resp:	49245
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.0	27.0
138	8.5	8.2	12.2

