

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090825\
 Data File : BG064312.D
 Acq On : 8 Sep 2025 18:22
 Operator : RC/JU
 Sample : Q3032-04 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-PILE-2

Quant Time: Sep 09 01:31:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 28 17:41:58 2025
 Response via : Initial Calibration

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

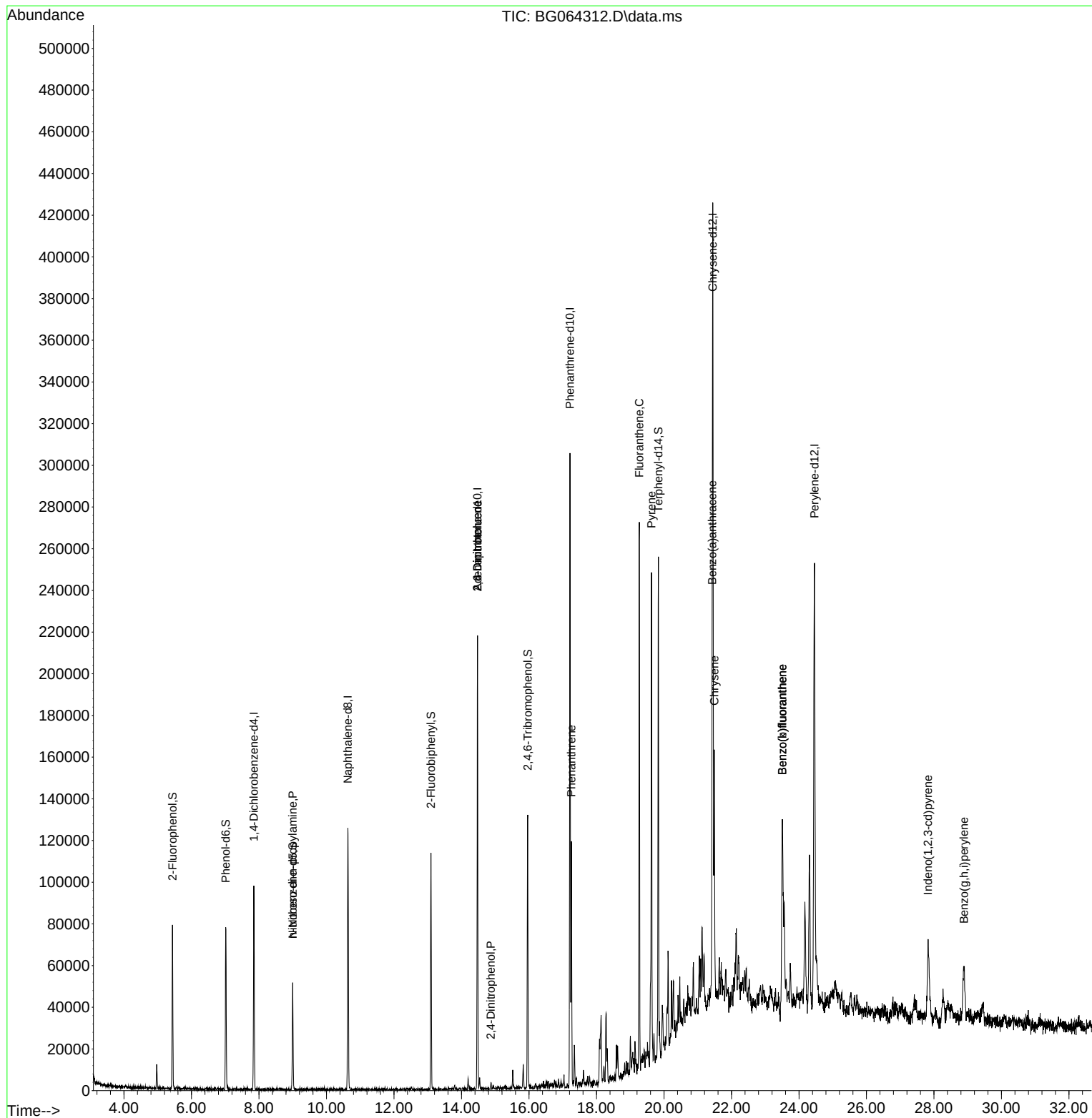
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.848	152	23608	20.000	ng	-0.01
21) Naphthalene-d8	10.633	136	100404	20.000	ng	#-0.02
39) Acenaphthene-d10	14.475	164	71106	20.000	ng	0.00
64) Phenanthrene-d10	17.213	188	169678	20.000	ng	-0.01
76) Chrysene-d12	21.444	240	196040	20.000	ng	-0.01
86) Perylene-d12	24.458	264	213880	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.439	112	28512	21.668	ng	0.00
7) Phenol-d6	7.014	99	37695	20.851	ng	-0.02
23) Nitrobenzene-d5	8.999	82	25654	14.250	ng	-0.02
42) 2,4,6-Tribromophenol	15.962	330	24701	26.227	ng	-0.01
45) 2-Fluorobiphenyl	13.095	172	54366	11.670	ng	-0.02
79) Terphenyl-d14	19.834	244	104396	11.110	ng	-0.01
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	8.999	70	3717	2.687	ng	# 68
51) 2,6-Dinitrotoluene	14.475	165	9342	8.966	ng	# 17
54) 2,4-Dinitrophenol	14.869	184	77	5.756	ng	# 12
57) 2,4-Dinitrotoluene	14.475	165	9342	5.930	ng	# 20
71) Phenanthrene	17.254	178	72245	8.073	ng	95
75) Fluoranthene	19.270	202	158061	15.021	ng	98
78) Pyrene	19.628	202	143135	11.589	ng	99
81) Benzo(a)anthracene	21.426	228	86735	6.916	ng	98
83) Chrysene	21.491	228	77728	6.456	ng	97
87) Indeno(1,2,3-cd)pyrene	27.824	276	50442	3.453	ng	# 92
88) Benzo(b)fluoranthene	23.506	252	102309	8.476	ng	97
89) Benzo(k)fluoranthene	23.506	252	102309	8.319	ng	# 97
92) Benzo(g,h,i)perylene	28.888	276	48042	4.210	ng	# 90

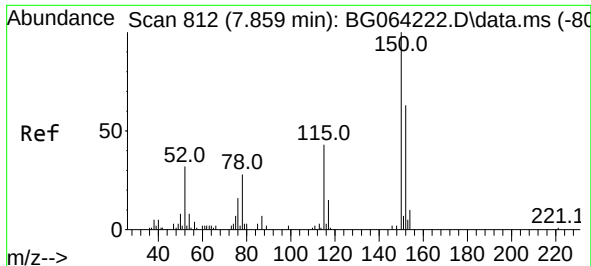
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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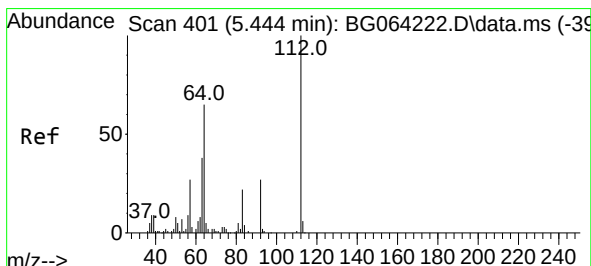
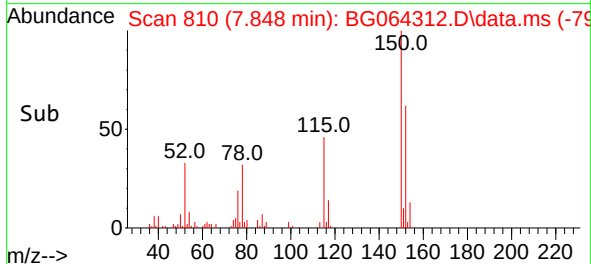
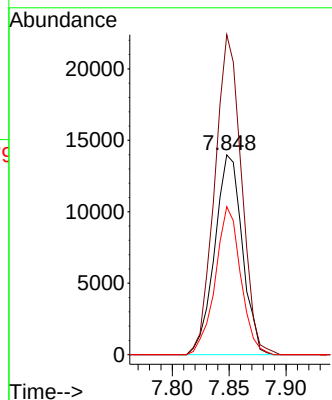
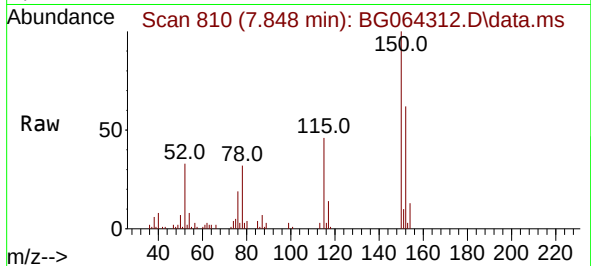




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.848 min Scan# 812
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

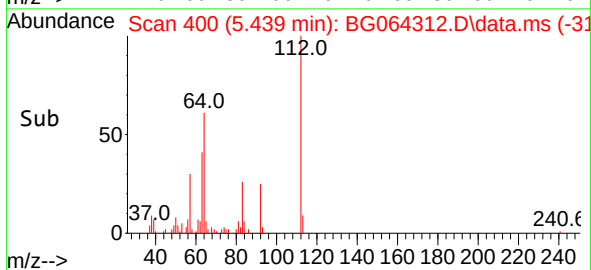
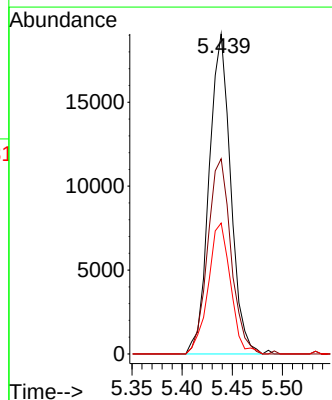
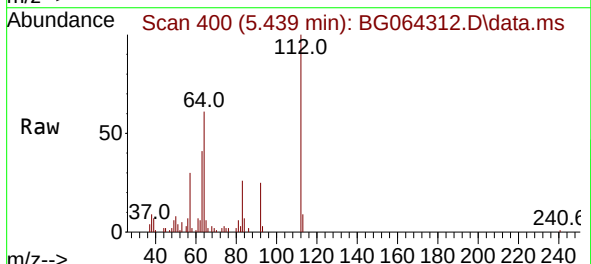
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

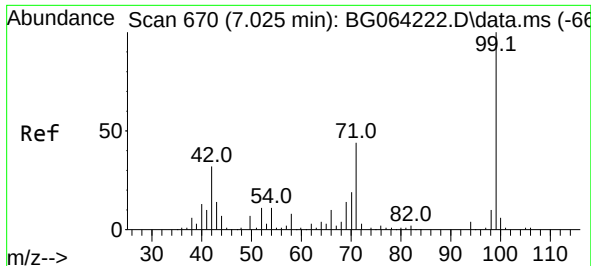
Tgt Ion:152 Resp: 23608
Ion Ratio Lower Upper
152 100
150 160.1 128.0 192.0
115 74.0 55.7 83.5



#5
2-Fluorophenol
Concen: 21.668 ng
RT: 5.439 min Scan# 400
Delta R.T. -0.005 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:112 Resp: 28512
Ion Ratio Lower Upper
112 100
64 61.0 51.8 77.6
63 40.9 30.6 45.8

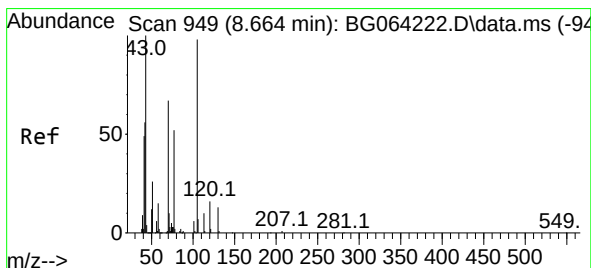
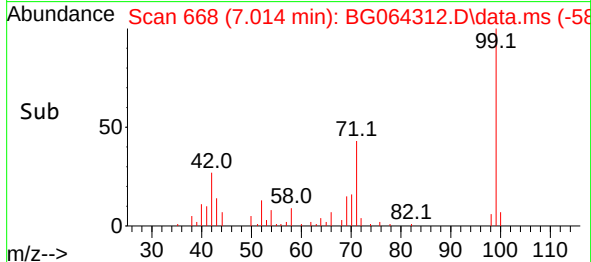
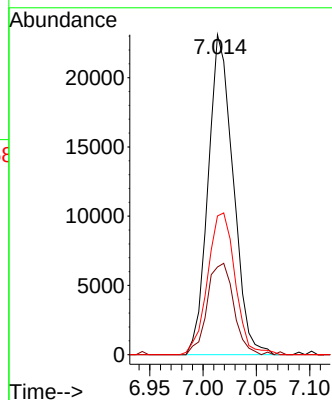
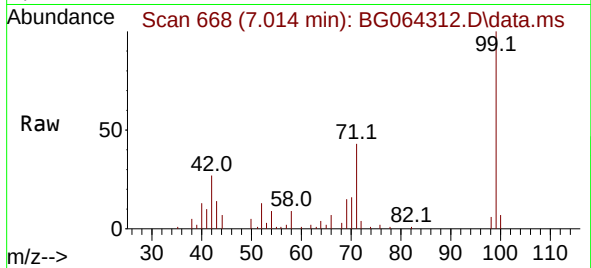




#7
Phenol-d6
Concen: 20.851 ng
RT: 7.014 min Scan# 61
Delta R.T. -0.017 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

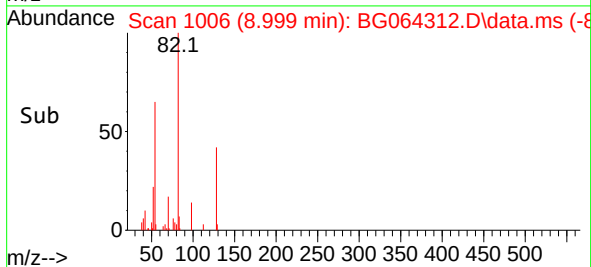
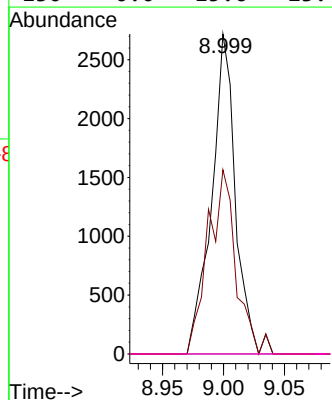
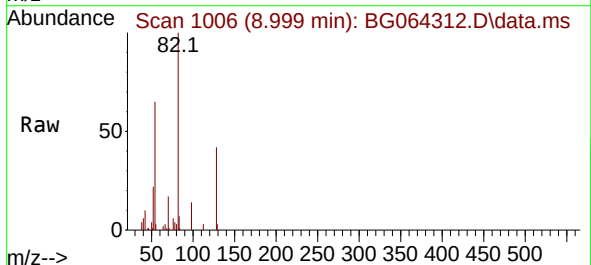
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

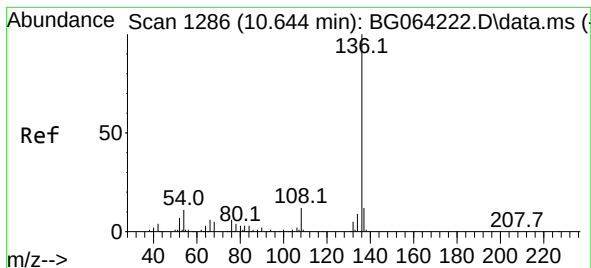
Tgt Ion: 99 Resp: 37695
Ion Ratio Lower Upper
99 100
42 27.4 25.8 38.8
71 43.3 35.2 52.8



#19
n-Nitroso-di-n-propylamine
Concen: 2.687 ng
RT: 8.999 min Scan# 1006
Delta R.T. 0.335 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion: 70 Resp: 3717
Ion Ratio Lower Upper
70 100
42 57.6 67.9 101.9#
101 0.0 7.3 10.9#
130 0.0 15.6 23.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.633 min Scan# 11

Delta R.T. -0.017 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

Tgt Ion:136 Resp: 100404

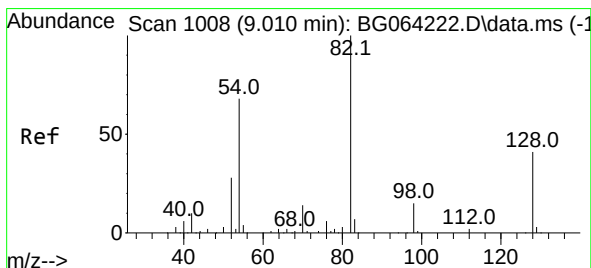
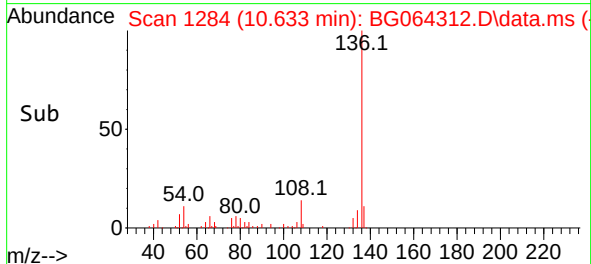
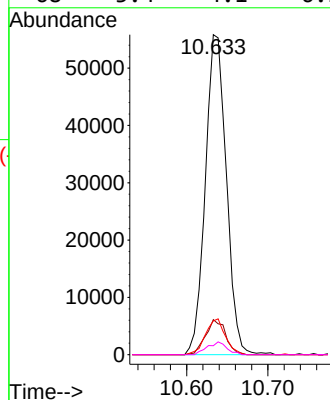
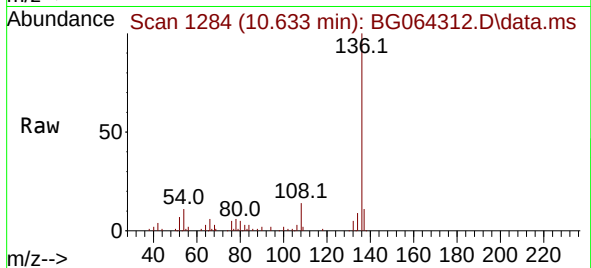
Ion Ratio Lower Upper

136 100

137 10.9 9.6 14.4

54 10.5 8.8 13.2

68 3.4 4.1 6.1#



#23

Nitrobenzene-d5

Concen: 14.250 ng

RT: 8.999 min Scan# 1006

Delta R.T. -0.017 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

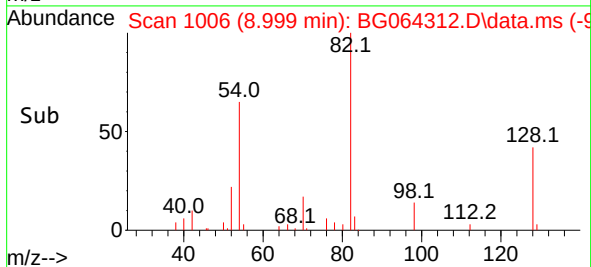
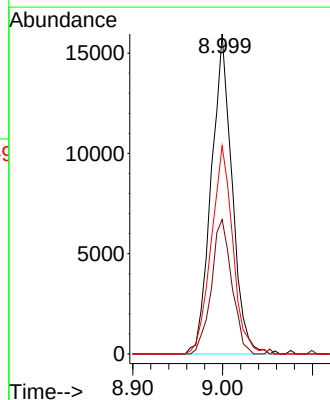
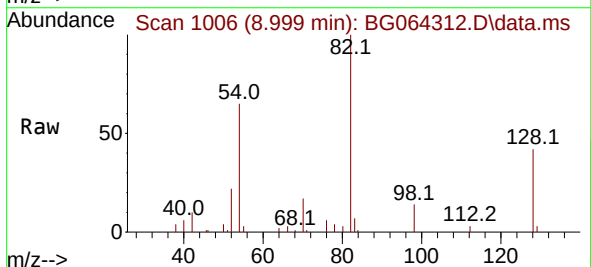
Tgt Ion: 82 Resp: 25654

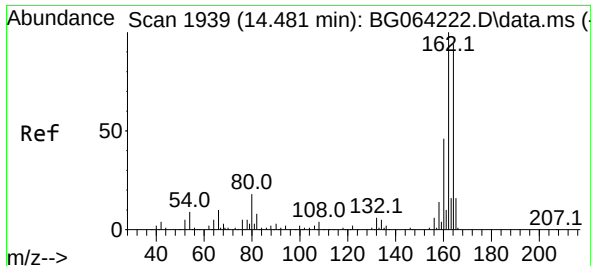
Ion Ratio Lower Upper

82 100

128 42.0 32.6 48.8

54 65.0 54.7 82.1

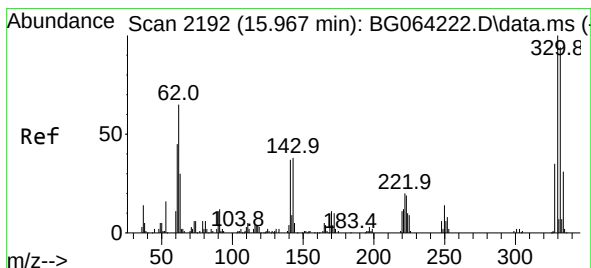
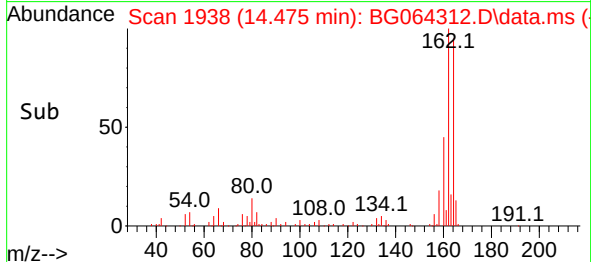
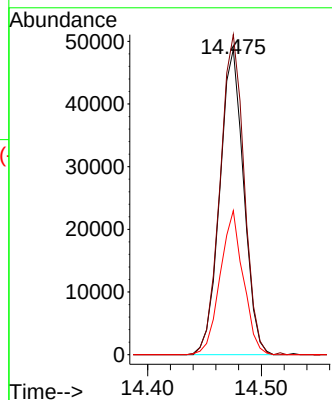
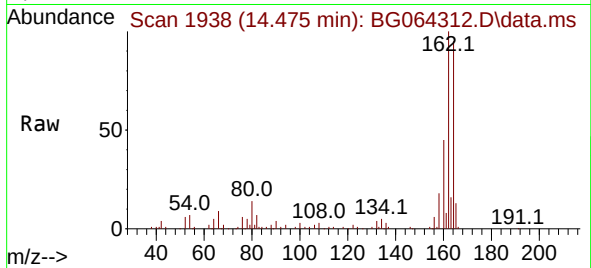




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.475 min Scan# 1938
Delta R.T. -0.006 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

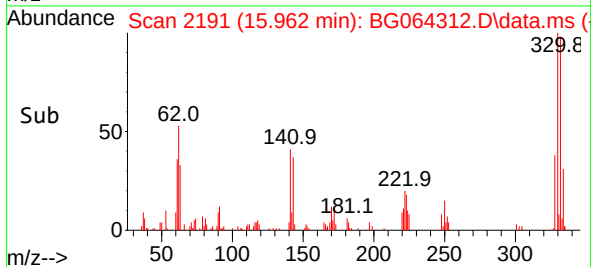
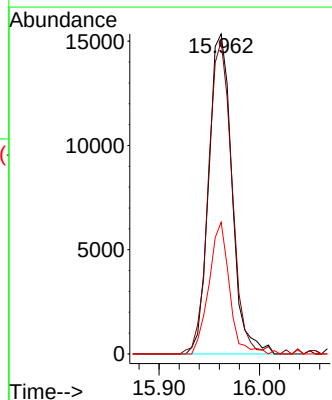
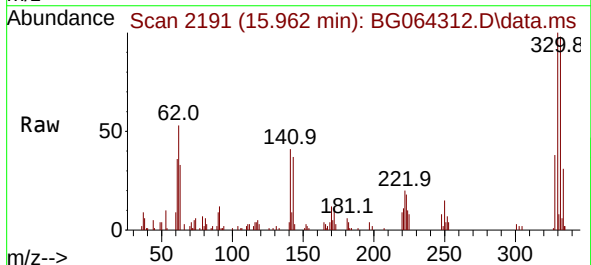
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

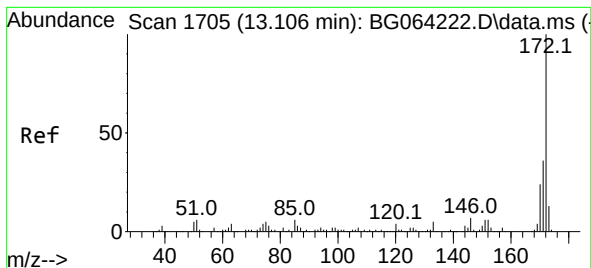
Tgt Ion:164 Resp: 71106
Ion Ratio Lower Upper
164 100
162 104.7 85.4 128.0
160 47.1 39.2 58.8



#42
2,4,6-Tribromophenol
Concen: 26.227 ng
RT: 15.962 min Scan# 2191
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:330 Resp: 24701
Ion Ratio Lower Upper
330 100
332 98.7 77.6 116.4
141 36.5 29.8 44.6





#45

2-Fluorobiphenyl

Concen: 11.670 ng

RT: 13.095 min Scan# 1

Delta R.T. -0.017 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

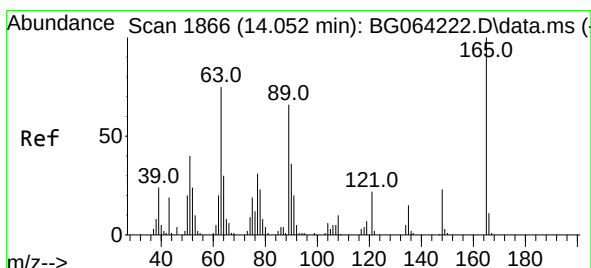
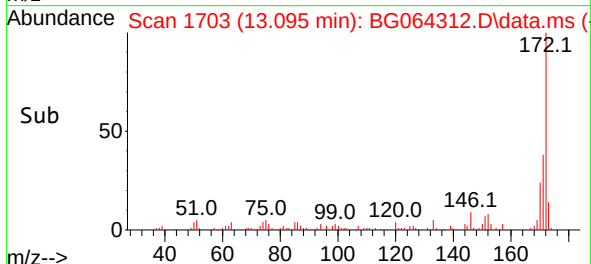
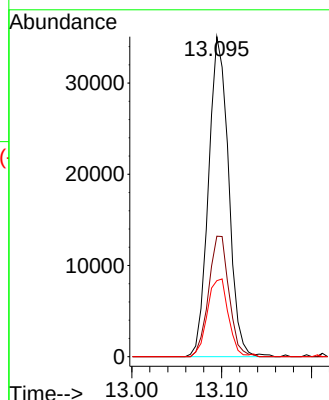
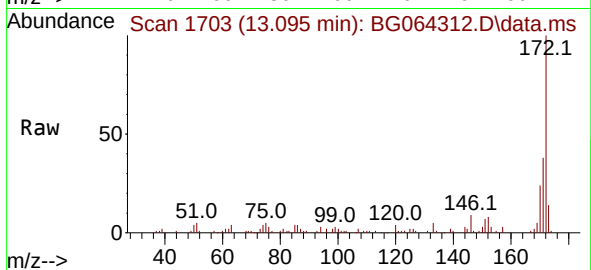
Tgt Ion:172 Resp: 54366

Ion Ratio Lower Upper

172 100

171 37.6 28.7 43.1

170 23.7 19.0 28.6



#51

2,6-Dinitrotoluene

Concen: 8.966 ng

RT: 14.475 min Scan# 1938

Delta R.T. 0.418 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

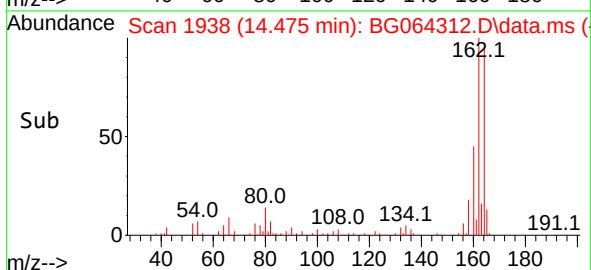
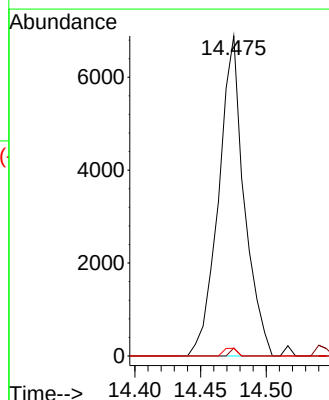
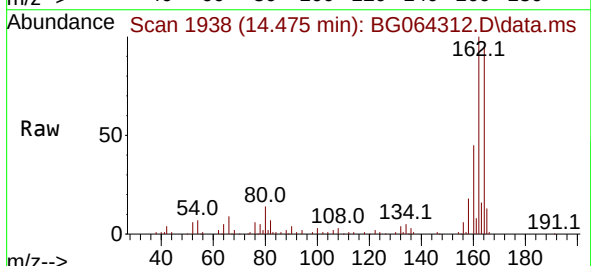
Tgt Ion:165 Resp: 9342

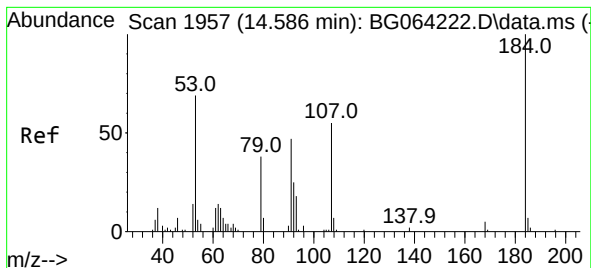
Ion Ratio Lower Upper

165 100

63 2.5 60.3 90.5#

89 2.4 52.9 79.3#





#54

2,4-Dinitrophenol

Concen: 5.756 ng

RT: 14.869 min Scan# 20

Delta R.T. 0.277 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

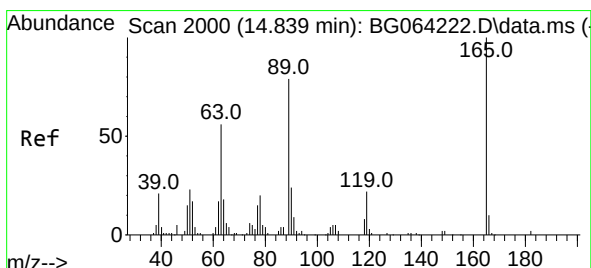
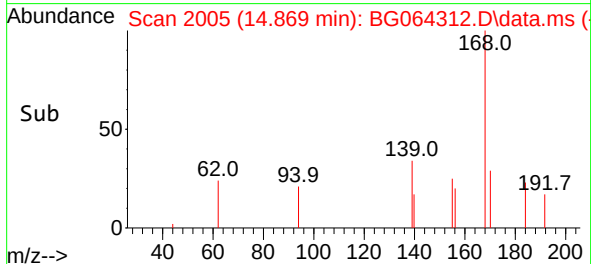
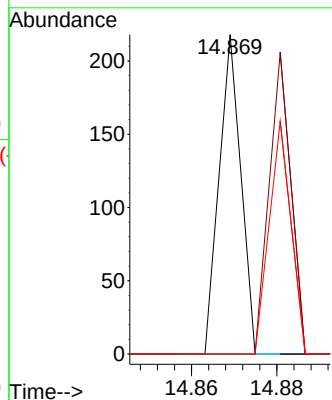
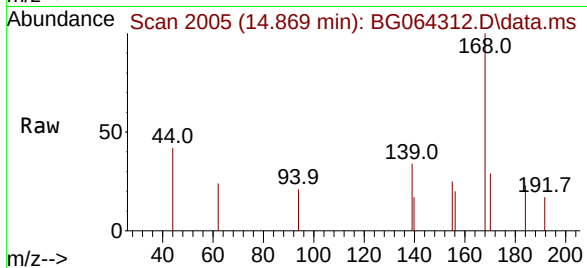
Tgt Ion:184 Resp: 77

Ion Ratio Lower Upper

184 100

63 0.0 60.1 90.1#

154 0.0 59.8 89.8#



#57

2,4-Dinitrotoluene

Concen: 5.930 ng

RT: 14.475 min Scan# 1938

Delta R.T. -0.370 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Tgt Ion:165 Resp: 9342

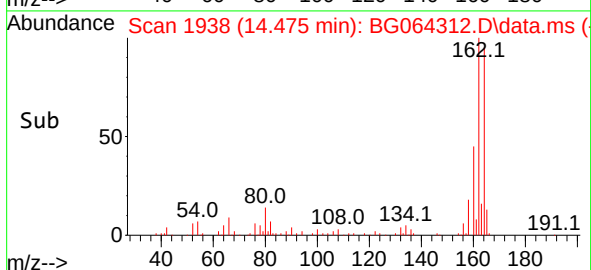
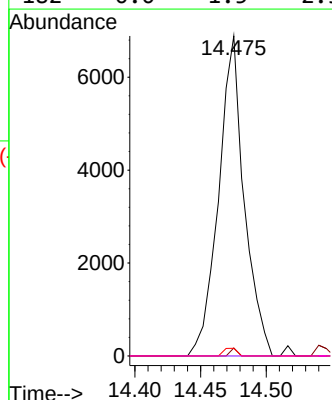
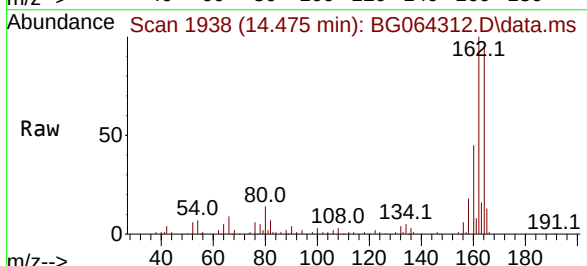
Ion Ratio Lower Upper

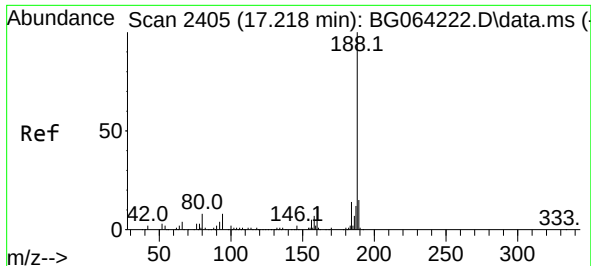
165 100

63 2.5 44.6 67.0#

89 2.4 63.0 94.4#

182 0.0 1.5 2.3#

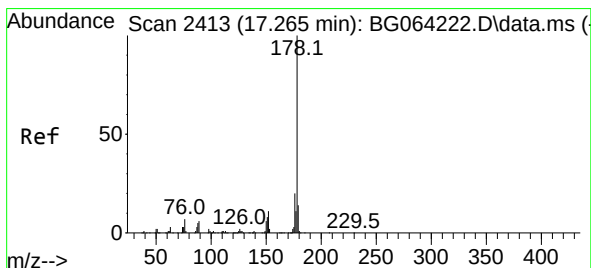
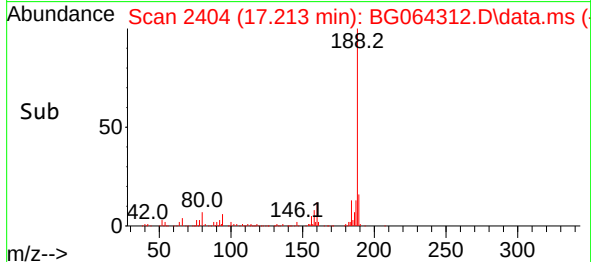
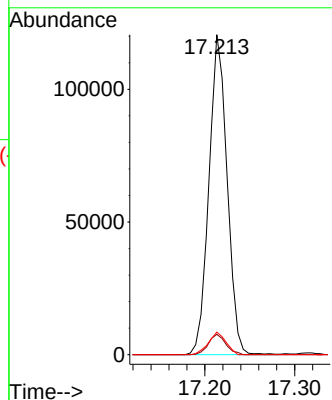
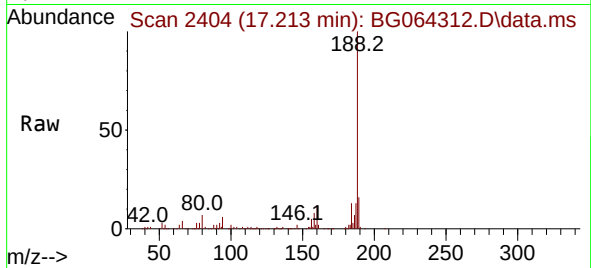




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.213 min Scan# 2405
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

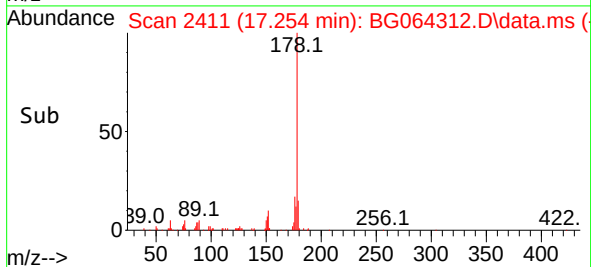
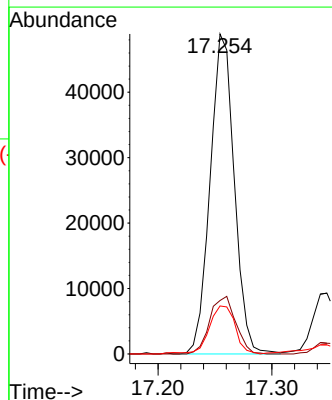
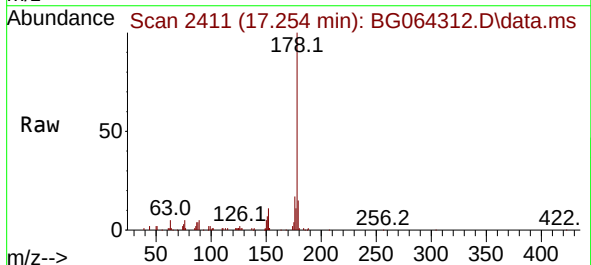
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

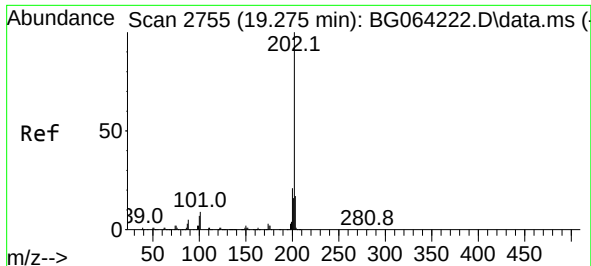
Tgt Ion:188 Resp: 169678
Ion Ratio Lower Upper
188 100
94 6.3 6.2 9.4
80 7.0 6.8 10.2



#71
Phenanthrene
Concen: 8.073 ng
RT: 17.254 min Scan# 2411
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:178 Resp: 72245
Ion Ratio Lower Upper
178 100
176 16.7 15.9 23.9
179 15.0 11.4 17.2

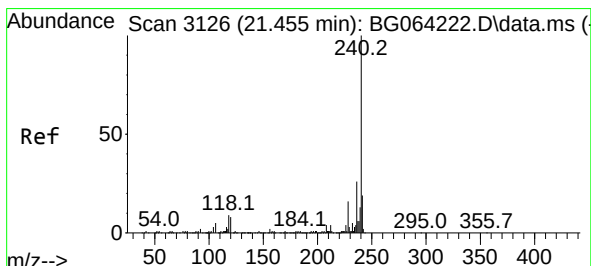
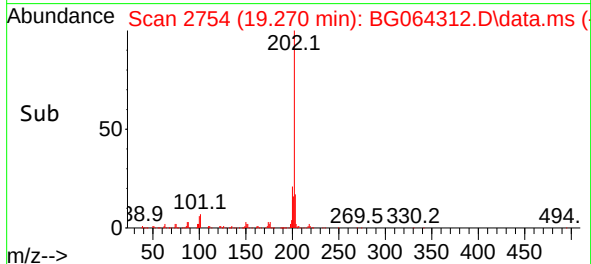
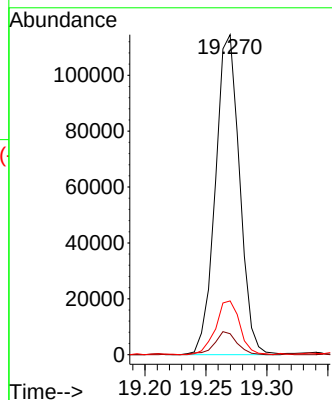
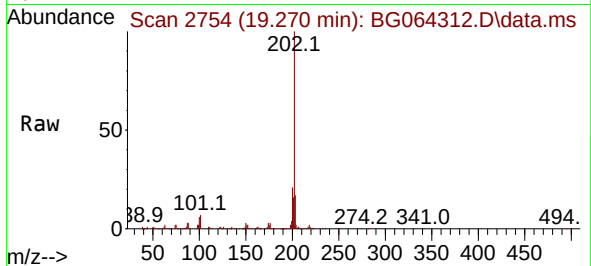




#75
Fluoranthene
Concen: 15.021 ng
RT: 19.270 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

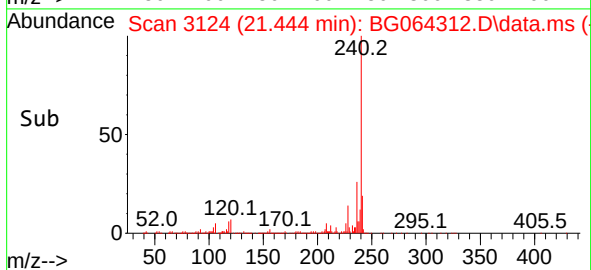
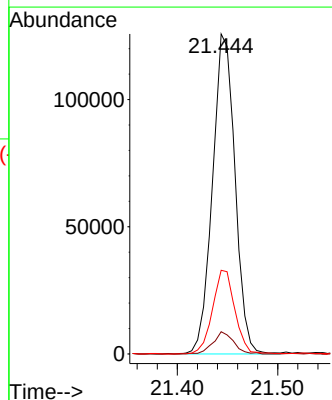
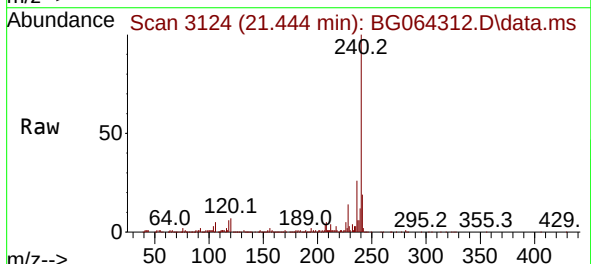
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

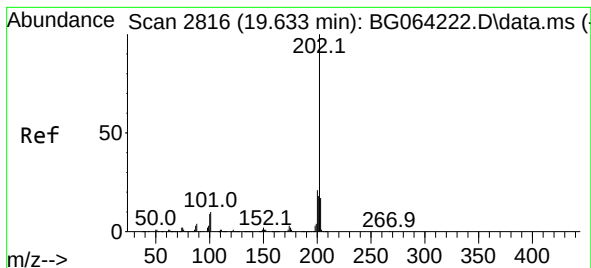
Tgt Ion:202 Resp: 158061
Ion Ratio Lower Upper
202 100
101 6.5 0.0 28.7
203 16.8 0.0 36.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.444 min Scan# 3124
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:240 Resp: 196040
Ion Ratio Lower Upper
240 100
120 7.0 6.2 9.4
236 26.2 20.5 30.7





#78

Pyrene

Concen: 11.589 ng

RT: 19.628 min Scan# 2815

Delta R.T. -0.011 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

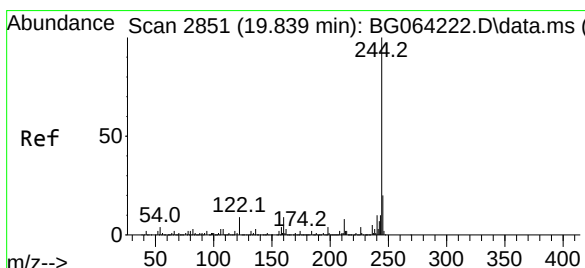
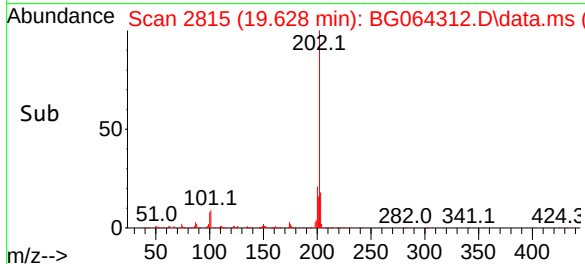
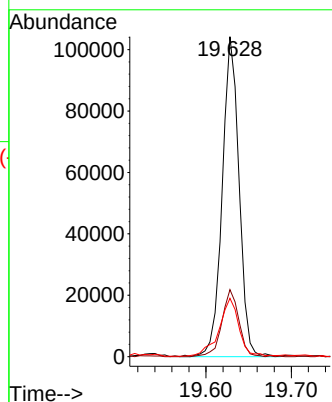
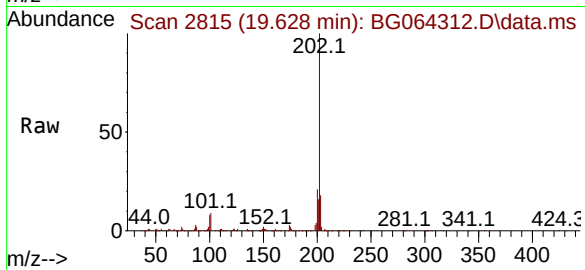
Tgt Ion:202 Resp: 143135

Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 18.2 13.8 20.8



#79

Terphenyl-d14

Concen: 11.110 ng

RT: 19.834 min Scan# 2850

Delta R.T. -0.011 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

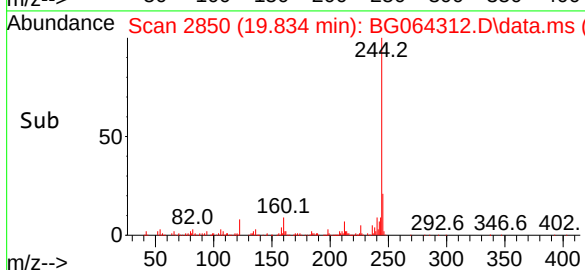
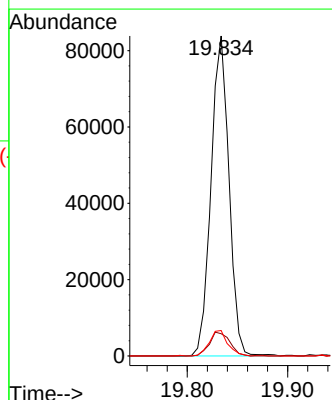
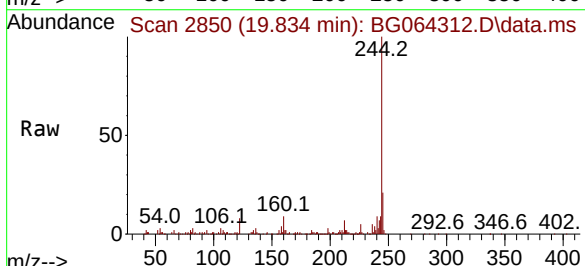
Tgt Ion:244 Resp: 104396

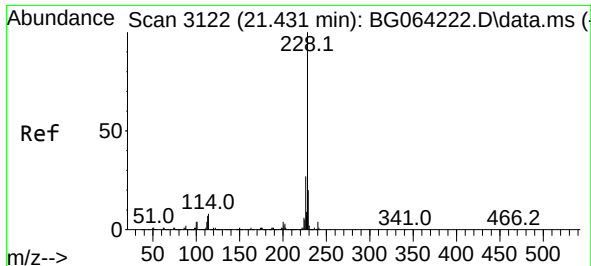
Ion Ratio Lower Upper

244 100

212 6.9 6.6 10.0

122 8.0 7.0 10.6

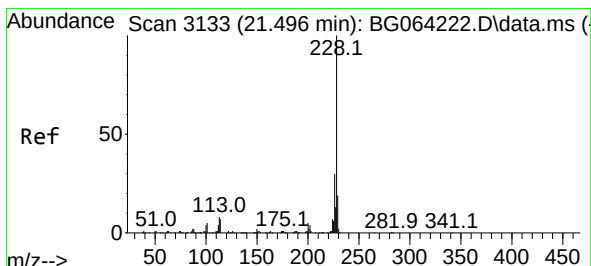
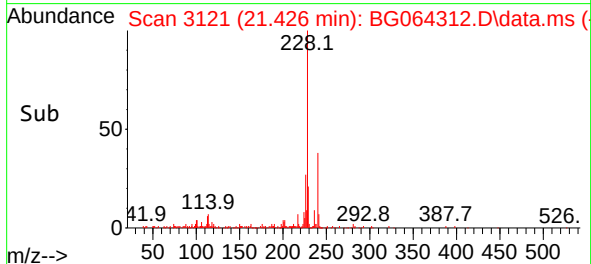
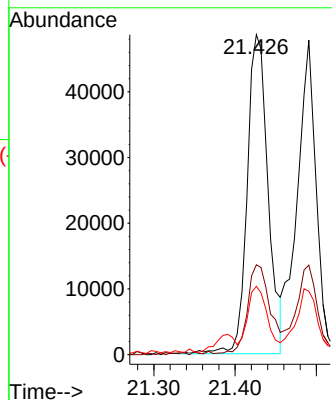
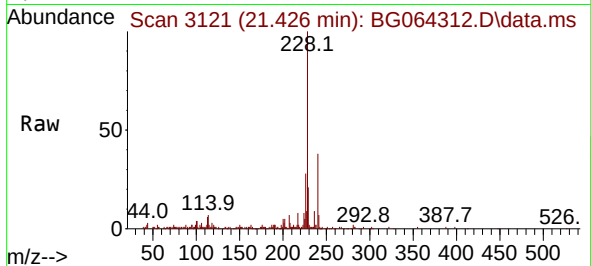




#81
Benzo(a)anthracene
Concen: 6.916 ng
RT: 21.426 min Scan# 3121
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

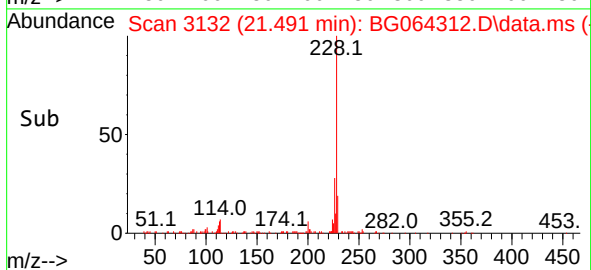
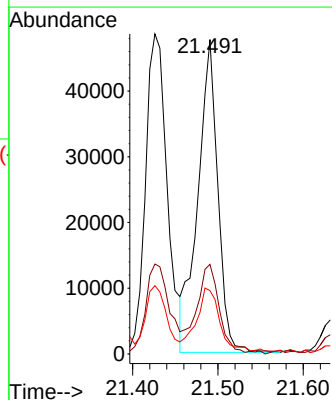
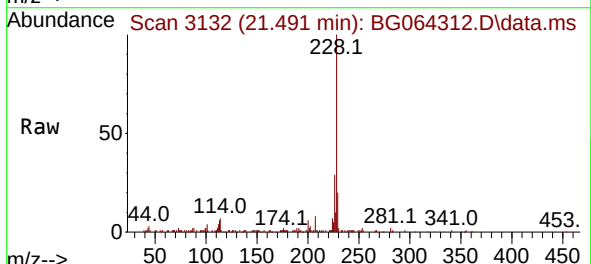
Instrument :
BNA_G
ClientSampleId :
SOIL-PILE-2

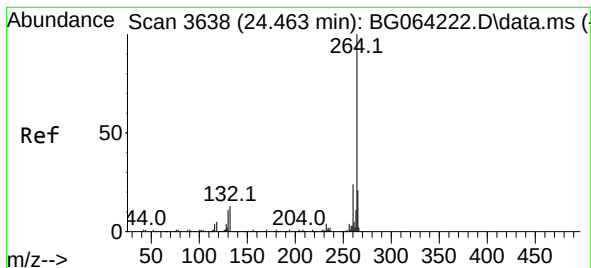
Tgt Ion:228 Resp: 86735
Ion Ratio Lower Upper
228 100
226 28.1 21.7 32.5
229 21.3 15.9 23.9



#83
Chrysene
Concen: 6.456 ng
RT: 21.491 min Scan# 3132
Delta R.T. -0.011 min
Lab File: BG064312.D
Acq: 8 Sep 2025 18:22

Tgt Ion:228 Resp: 77728
Ion Ratio Lower Upper
228 100
226 28.5 24.2 36.2
229 20.1 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.458 min Scan# 3

Delta R.T. -0.005 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

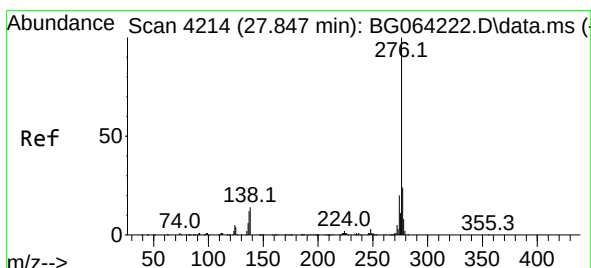
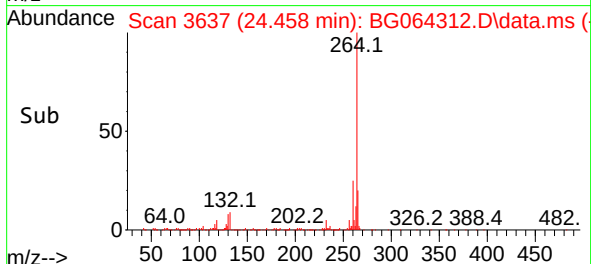
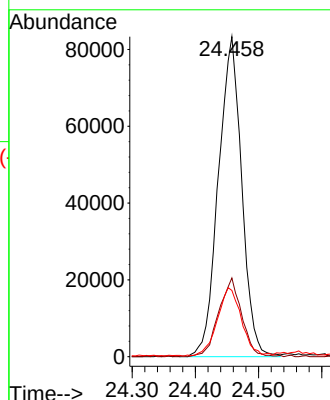
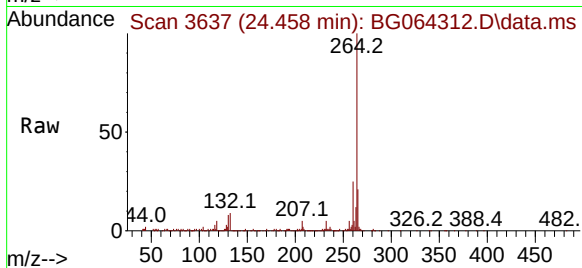
Tgt Ion:264 Resp: 213880

Ion Ratio Lower Upper

264 100

260 24.6 18.9 28.3

265 20.7 16.7 25.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.453 ng

RT: 27.824 min Scan# 4210

Delta R.T. -0.047 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

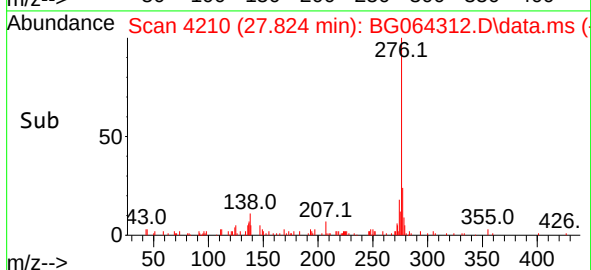
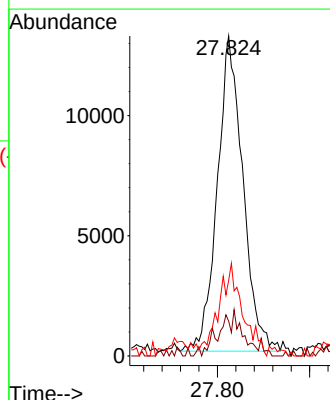
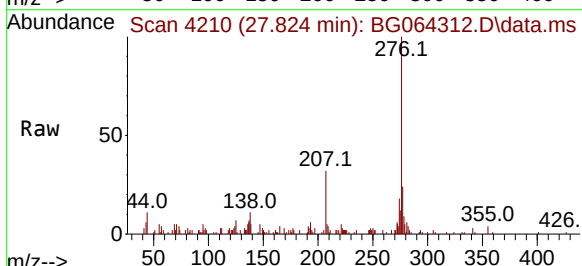
Tgt Ion:276 Resp: 50442

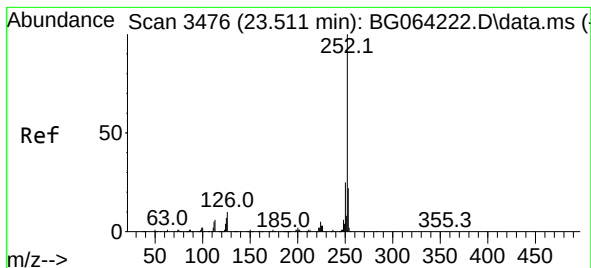
Ion Ratio Lower Upper

276 100

138 2.3 7.4 11.0#

277 27.5 20.5 30.7





#88

Benzo(b)fluoranthene

Concen: 8.476 ng

RT: 23.506 min Scan# 3475

Delta R.T. -0.011 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2

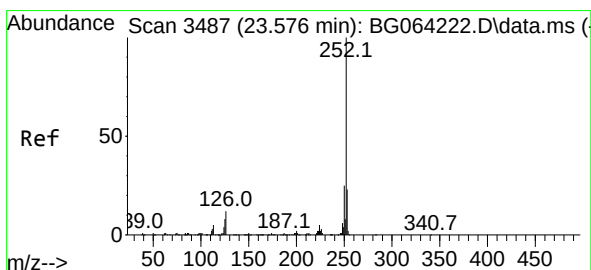
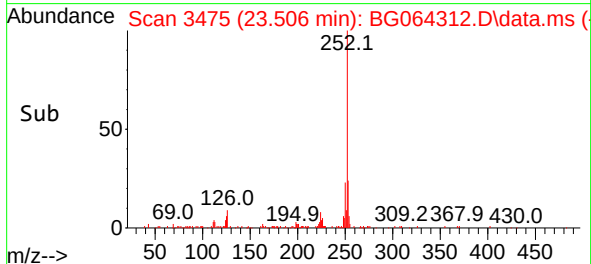
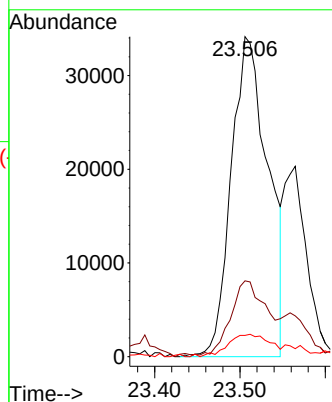
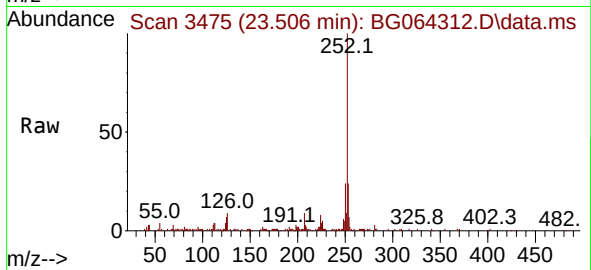
Tgt Ion:252 Resp: 102309

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 6.7 5.9 8.9



#89

Benzo(k)fluoranthene

Concen: 8.319 ng

RT: 23.506 min Scan# 3475

Delta R.T. -0.082 min

Lab File: BG064312.D

Acq: 8 Sep 2025 18:22

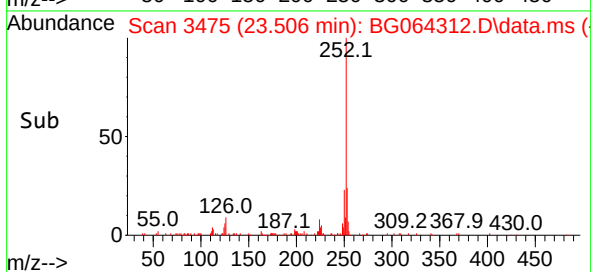
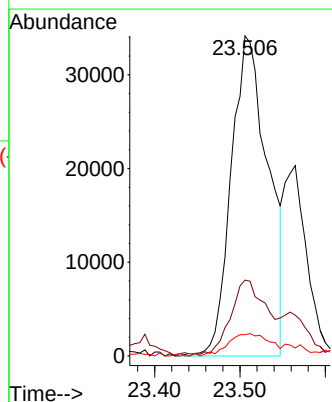
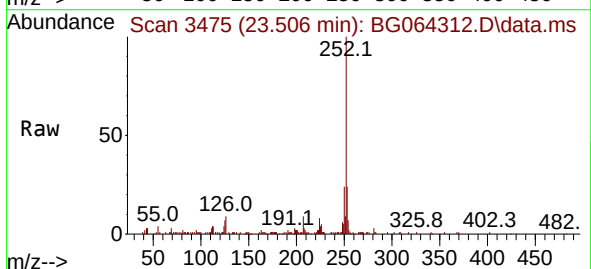
Tgt Ion:252 Resp: 102309

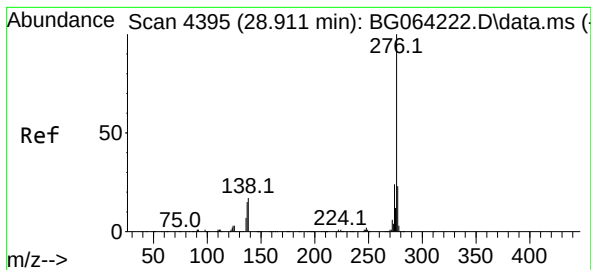
Ion Ratio Lower Upper

252 100

253 23.7 18.2 27.4

125 6.7 7.0 10.4#





#92

Benzo(g,h,i)perylene

Concen: 4.210 ng

RT: 28.888 min Scan# 41

Delta R.T. -0.047 min

Lab File: BG064312.D

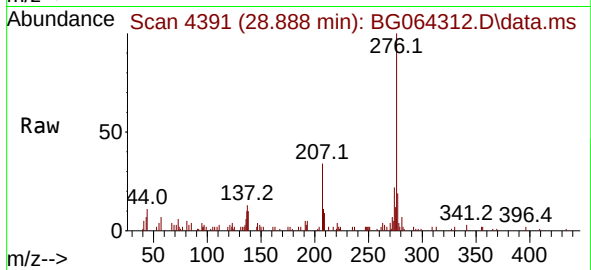
Acq: 8 Sep 2025 18:22

Instrument :

BNA_G

ClientSampleId :

SOIL-PILE-2



Tgt Ion:276 Resp: 48042

Ion Ratio Lower Upper

276 100

277 19.4 18.2 27.4

138 10.1 13.3 19.9#

