

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022825\
 Data File : BM049682.D
 Acq On : 28 Feb 2025 17:15
 Operator : RC/JU
 Sample : Q1458-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SP-SOIL

Quant Time: Feb 28 21:59:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 04:55:28 2025
 Response via : Initial Calibration

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

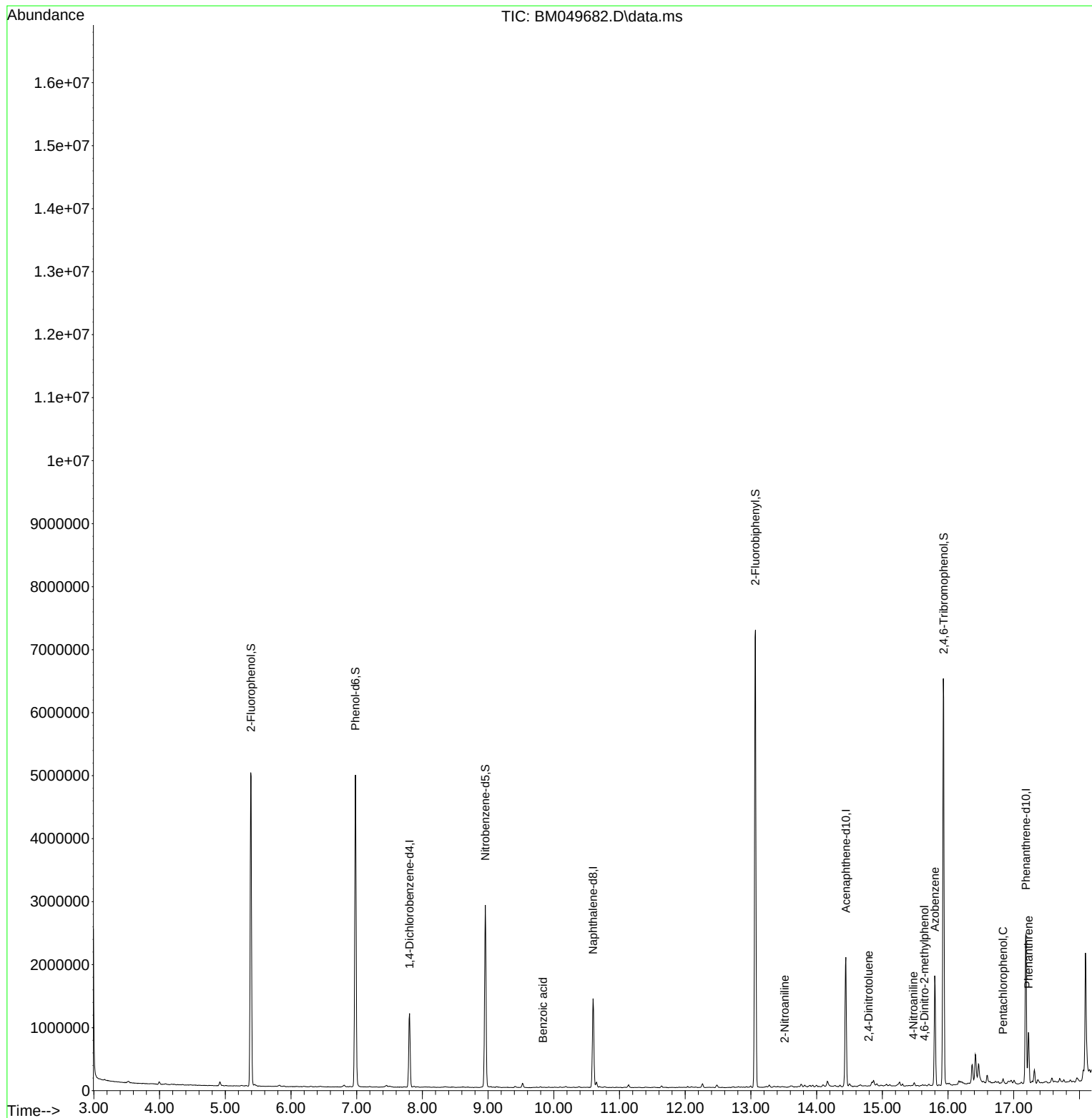
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	327502	20.000	ng	-0.02
21) Naphthalene-d8	10.598	136	1135421	20.000	ng	#-0.03
39) Acenaphthene-d10	14.445	164	729265	20.000	ng	-0.02
64) Phenanthrene-d10	17.186	188	1436553	20.000	ng	-0.02
76) Chrysene-d12	21.421	240	1529138	20.000	ng	-0.02
86) Perylene-d12	24.438	264	1617229	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	2190147	107.540	ng	0.00
7) Phenol-d6	6.981	99	2763702	103.580	ng	0.00
23) Nitrobenzene-d5	8.957	82	1617393	73.272	ng	-0.02
42) 2,4,6-Tribromophenol	15.933	330	1217447	140.889	ng	-0.02
45) 2-Fluorobiphenyl	13.069	172	3862066	68.605	ng	-0.02
79) Terphenyl-d14	19.809	244	5952851	59.447	ng	-0.02
Target Compounds						Qvalue
32) Benzoic acid	9.834	122	1431	5.151	ng	91
48) 2-Nitroaniline	13.516	65	294	4.151	ng	# 40
57) 2,4-Dinitrotoluene	14.792	165	1770	2.725	ng	# 68
62) 4-Nitroaniline	15.474	138	1097	4.294	ng	# 74
63) Azobenzene	15.798	77	451919	8.226	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.639	198	62	3.894	ng	# 1
70) Pentachlorophenol	16.839	266	6514	8.168	ng	93
71) Phenanthrene	17.227	178	510309	6.235	ng	99
75) Fluoranthene	19.239	202	1164688	12.156	ng	99
78) Pyrene	19.603	202	1288825	11.256	ng	100
81) Benzo(a)anthracene	21.403	228	595079	5.742	ng	97
83) Chrysene	21.462	228	541607	5.578	ng	97
87) Indeno(1,2,3-cd)pyrene	27.821	276	325613	3.687	ng	97
88) Benzo(b)fluoranthene	23.486	252	628469	5.649	ng	97
89) Benzo(k)fluoranthene	23.544	252	244683	2.264	ng	94
90) Benzo(a)pyrene	24.291	252	493736	5.600	ng	98
92) Benzo(g,h,i)perylene	28.885	276	316018	4.053	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022825\
Data File : BM049682.D
Acq On : 28 Feb 2025 17:15
Operator : RC/JU
Sample : Q1458-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SP-SOIL

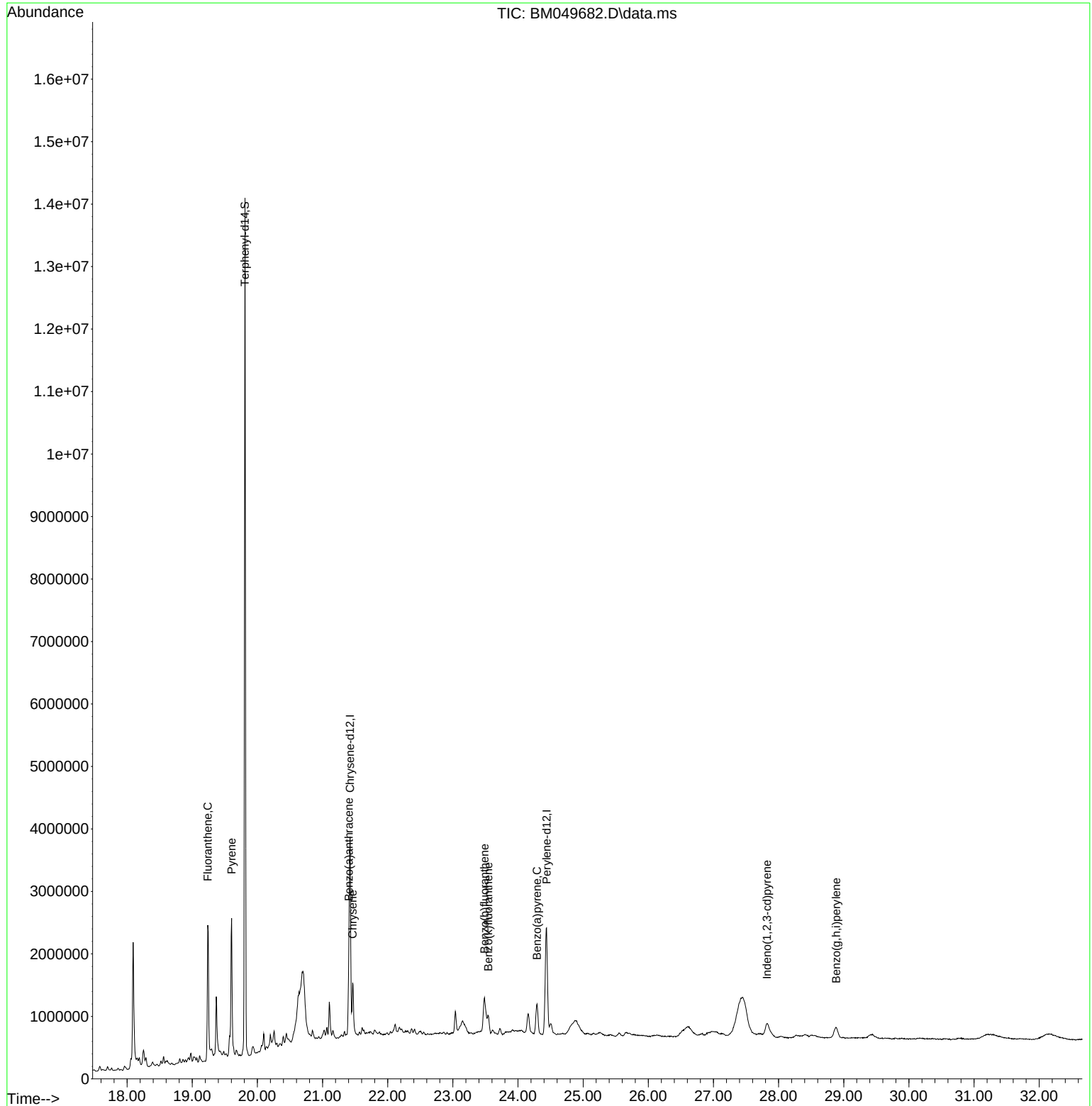
Quant Time: Feb 28 21:59:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 04:55:28 2025
Response via : Initial Calibration

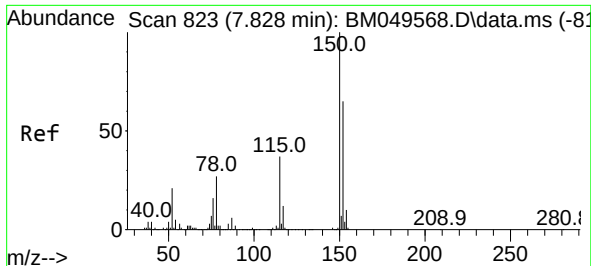


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022825\
Data File : BM049682.D
Acq On : 28 Feb 2025 17:15
Operator : RC/JU
Sample : Q1458-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SP-SOIL

Quant Time: Feb 28 21:59:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 04:55:28 2025
Response via : Initial Calibration

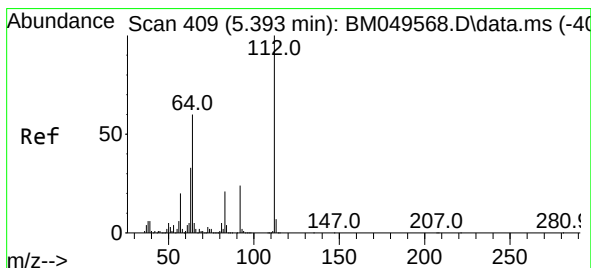
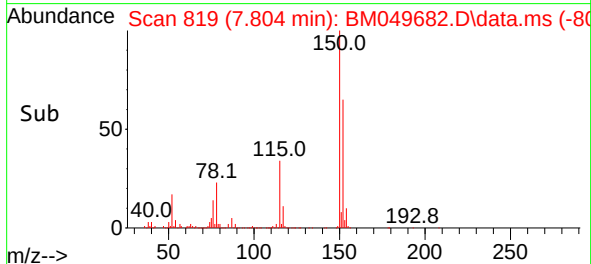
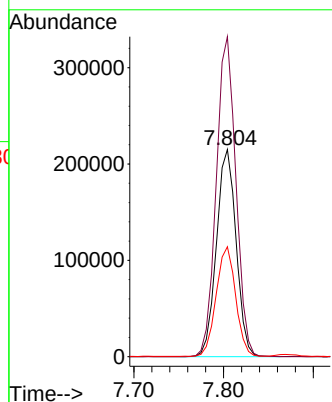
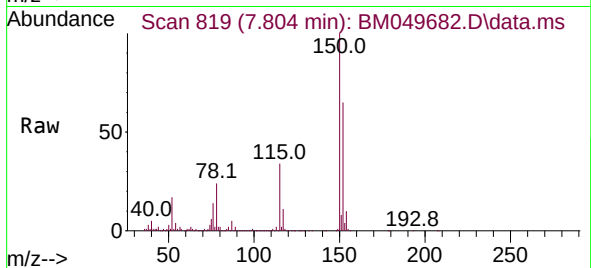




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 81
Delta R.T. -0.024 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

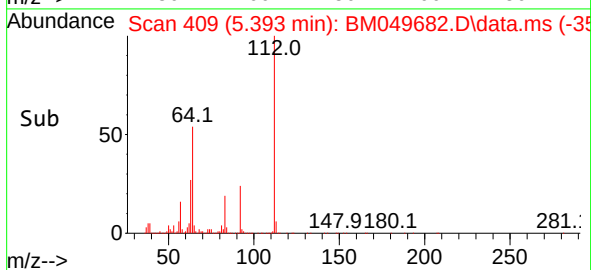
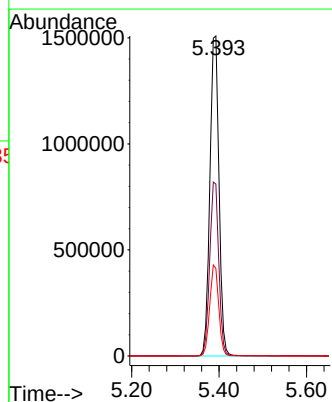
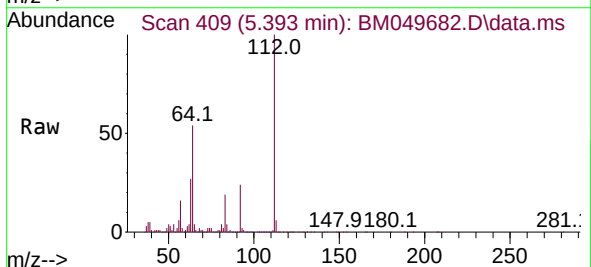
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

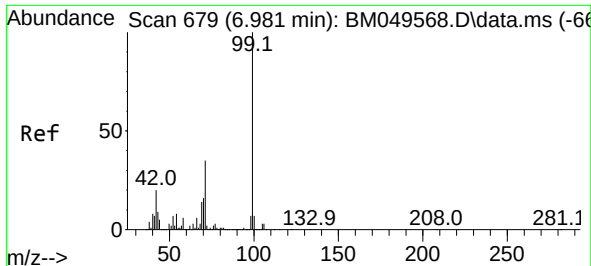
Tgt Ion:152 Resp: 327502
Ion Ratio Lower Upper
152 100
150 154.4 122.6 184.0
115 53.1 45.4 68.0



#5
2-Fluorophenol
Concen: 107.540 ng
RT: 5.393 min Scan# 409
Delta R.T. 0.000 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:112 Resp: 2190147
Ion Ratio Lower Upper
112 100
64 53.7 47.8 71.8
63 27.4 26.2 39.4

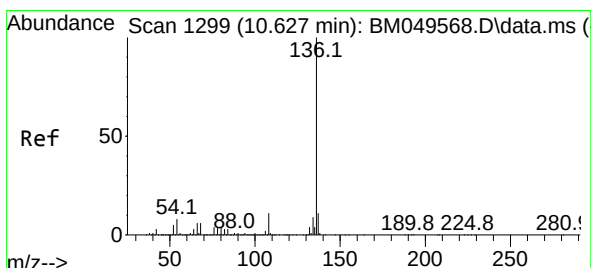
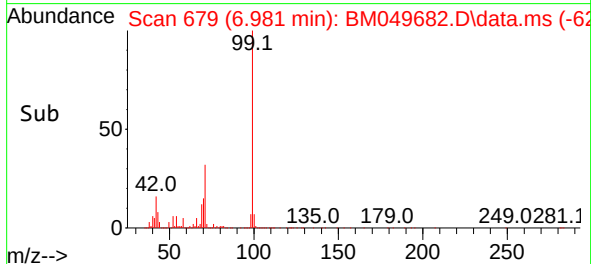
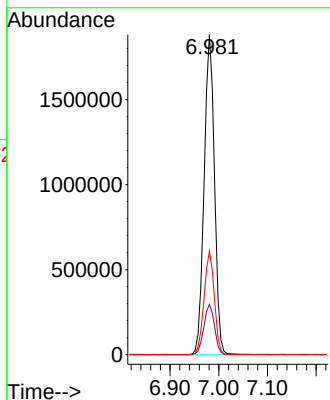
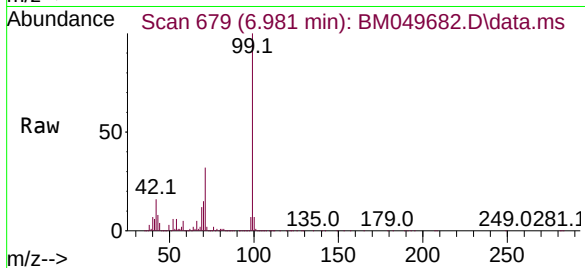




#7
Phenol-d6
Concen: 103.580 ng
RT: 6.981 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

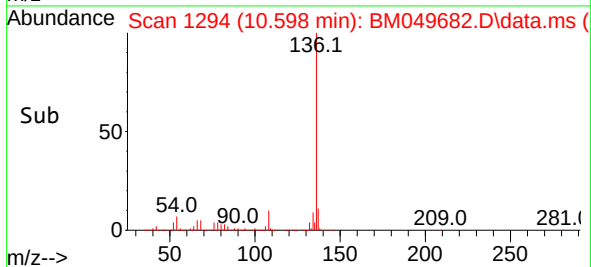
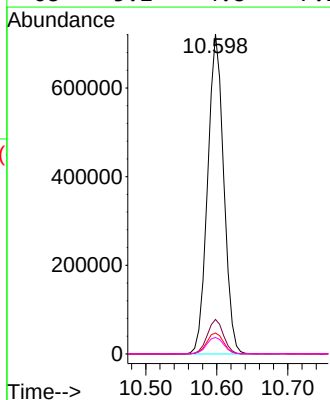
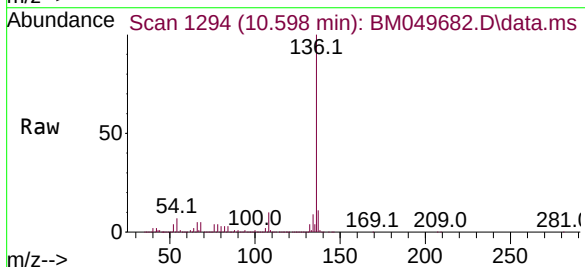
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

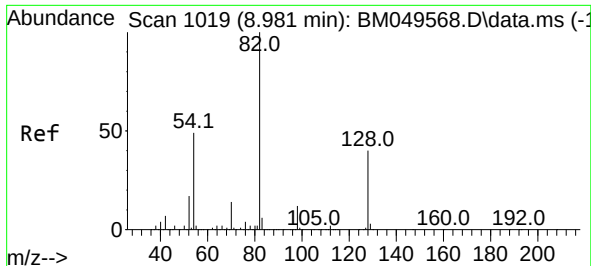
Tgt Ion: 99 Resp: 2763702
Ion Ratio Lower Upper
99 100
42 15.7 16.0 24.0#
71 32.3 27.8 41.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.598 min Scan# 1294
Delta R.T. -0.029 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion: 136 Resp: 1135421
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 6.6 6.6 10.0#
68 5.2 4.8 7.2

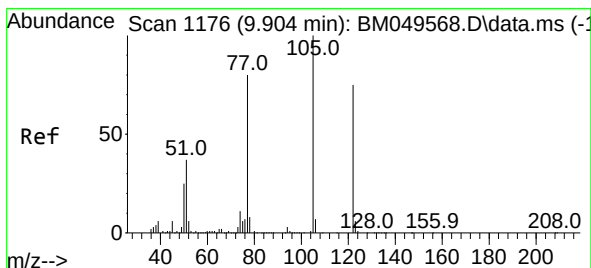
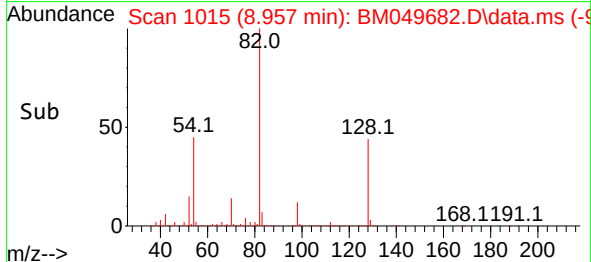
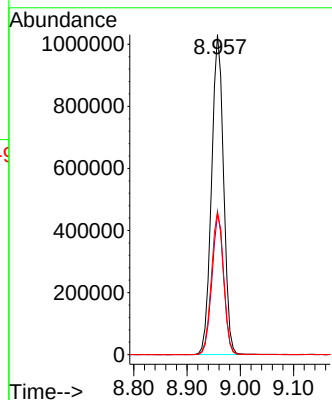
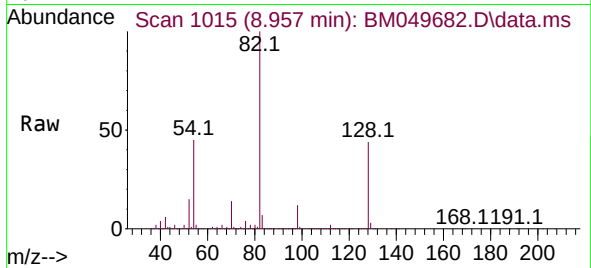




#23
Nitrobenzene-d5
Concen: 73.272 ng
RT: 8.957 min Scan# 1164
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

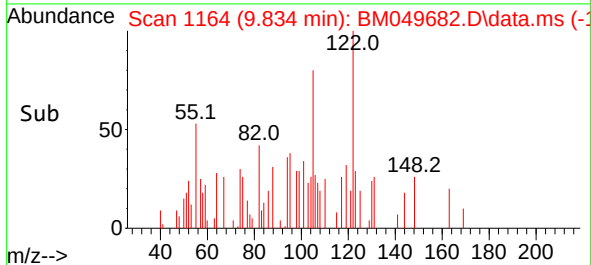
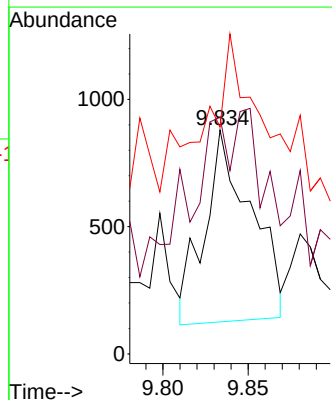
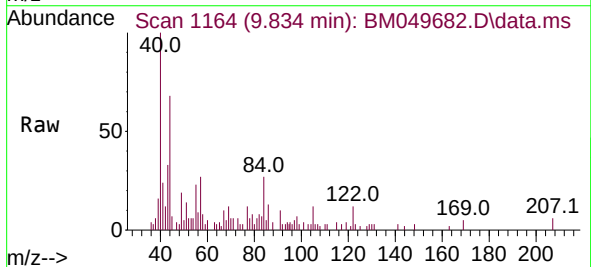
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

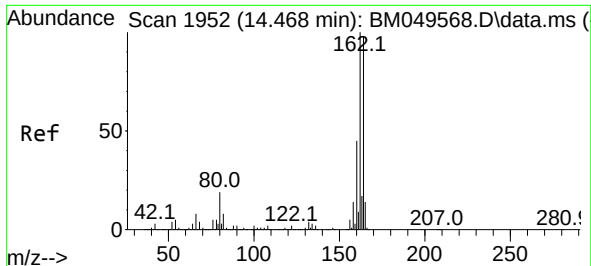
Tgt Ion: 82 Resp: 1617393
Ion Ratio Lower Upper
82 100
128 44.0 31.6 47.4
54 44.9 39.4 59.0



#32
Benzoic acid
Concen: 5.151 ng
RT: 9.834 min Scan# 1164
Delta R.T. -0.070 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:122 Resp: 1431
Ion Ratio Lower Upper
122 100
105 105.7 103.6 143.6
77 101.4 82.4 122.4

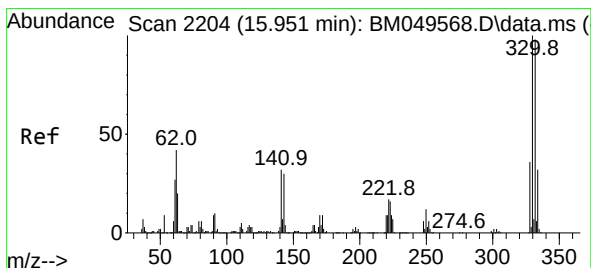
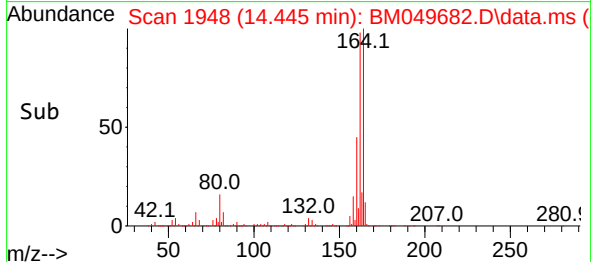
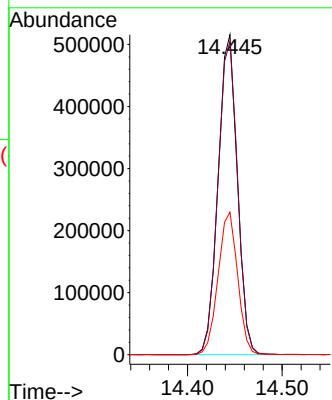
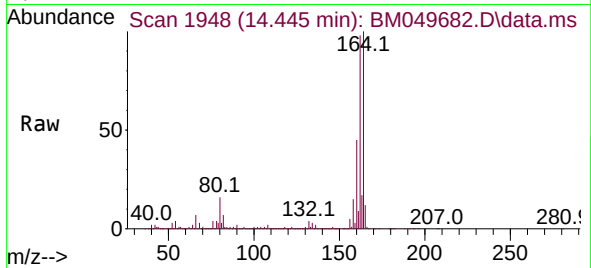




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.445 min Scan# 1952
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

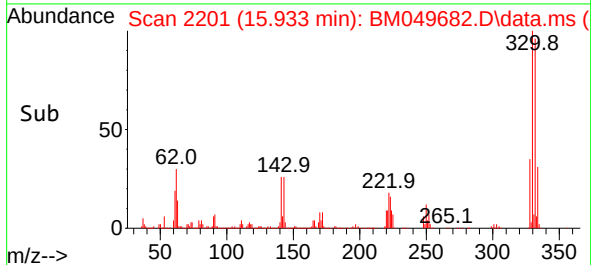
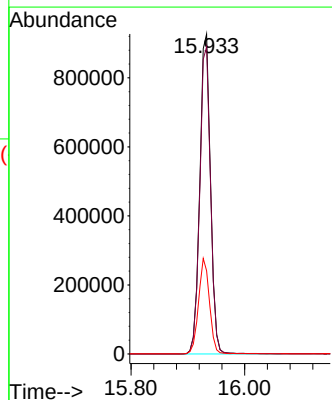
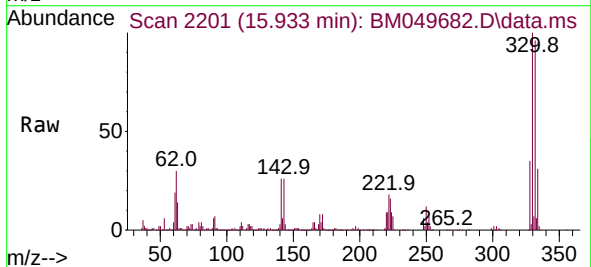
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

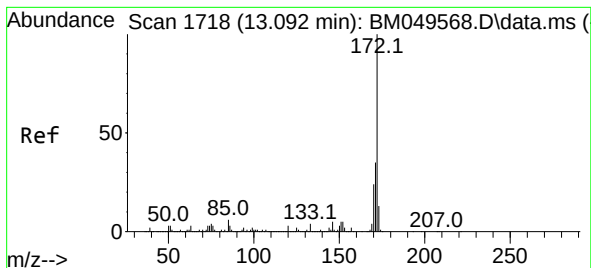
Tgt Ion:164 Resp: 729265
Ion Ratio Lower Upper
164 100
162 97.9 81.4 122.0
160 44.6 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 140.889 ng
RT: 15.933 min Scan# 2201
Delta R.T. -0.018 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:330 Resp: 1217447
Ion Ratio Lower Upper
330 100
332 96.8 77.3 115.9
141 30.4 28.2 42.2





#45

2-Fluorobiphenyl

Concen: 68.605 ng

RT: 13.069 min Scan# 1

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

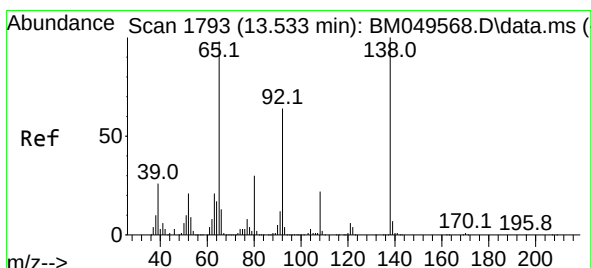
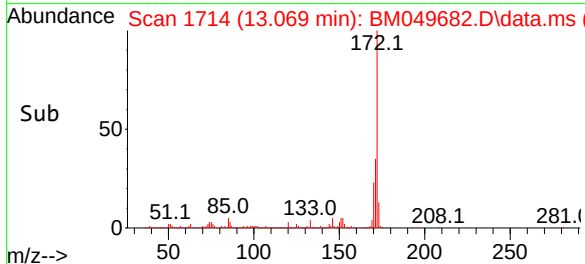
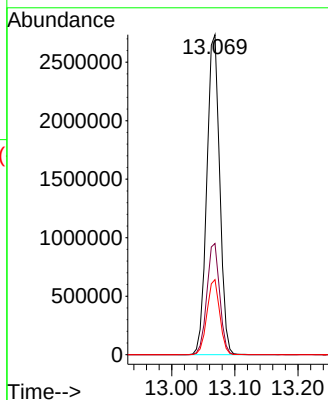
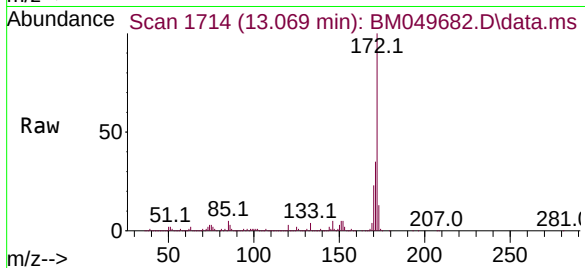
Tgt Ion:172 Resp: 3862066

Ion Ratio Lower Upper

172 100

171 34.8 28.0 42.0

170 23.5 19.0 28.4



#48

2-Nitroaniline

Concen: 4.151 ng

RT: 13.516 min Scan# 1790

Delta R.T. -0.018 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

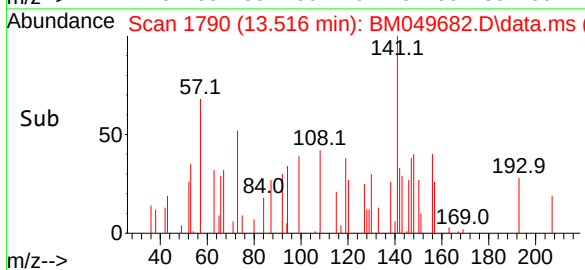
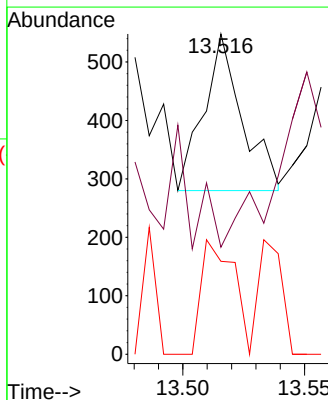
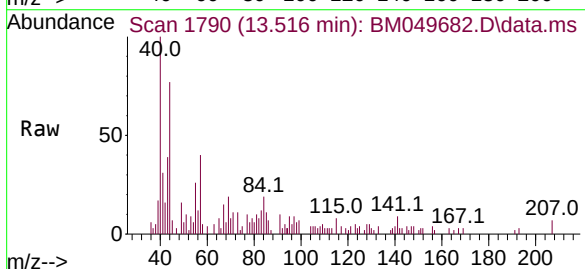
Tgt Ion: 65 Resp: 294

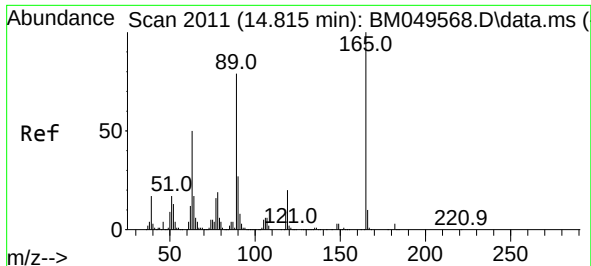
Ion Ratio Lower Upper

65 100

92 33.4 52.0 78.0#

138 29.0 81.6 122.4#

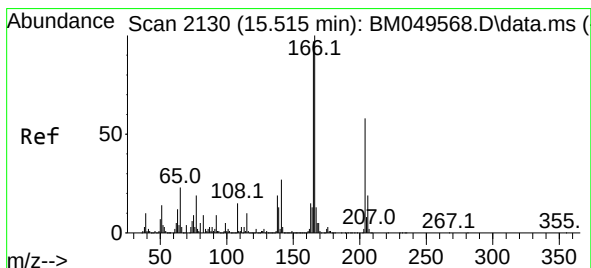
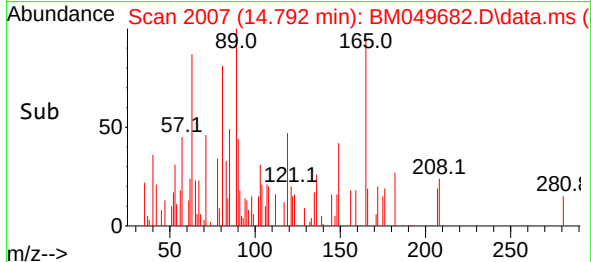
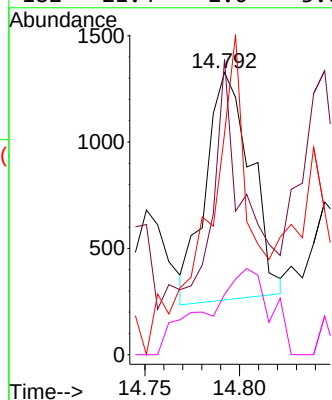
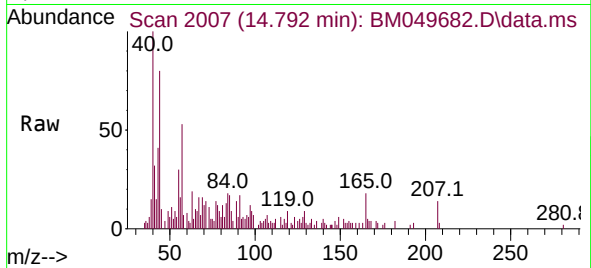




#57
2,4-Dinitrotoluene
Concen: 2.725 ng
RT: 14.792 min Scan# 2011
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

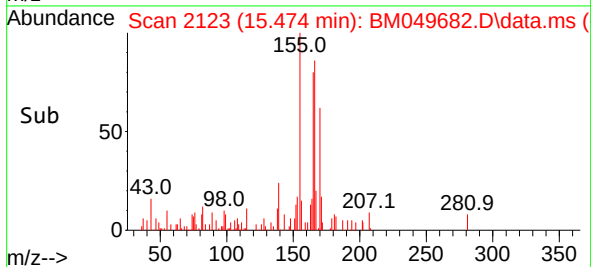
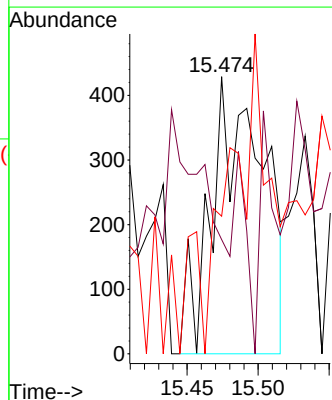
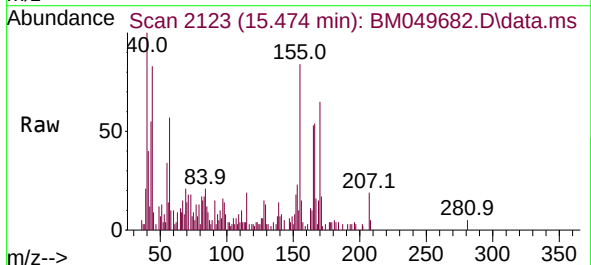
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

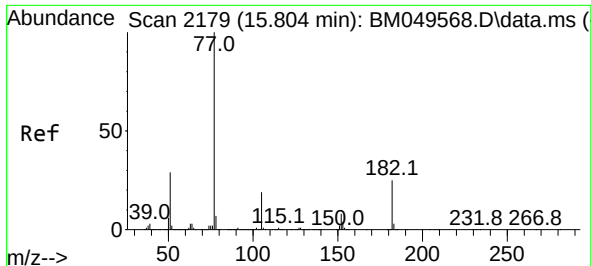
Tgt Ion:165 Resp: 1770
Ion Ratio Lower Upper
165 100
63 104.7 39.8 59.6#
89 78.3 63.5 95.3
182 21.4 2.0 3.0#



#62
4-Nitroaniline
Concen: 4.294 ng
RT: 15.474 min Scan# 2123
Delta R.T. -0.041 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:138 Resp: 1097
Ion Ratio Lower Upper
138 100
92 41.3 29.3 69.3
108 49.7 60.1 100.1#

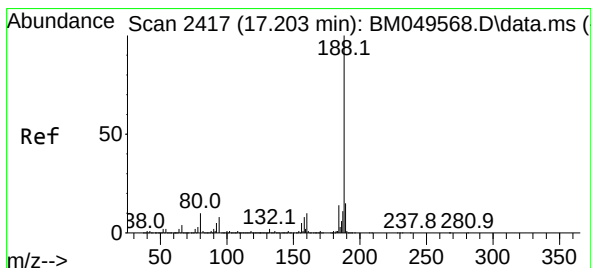
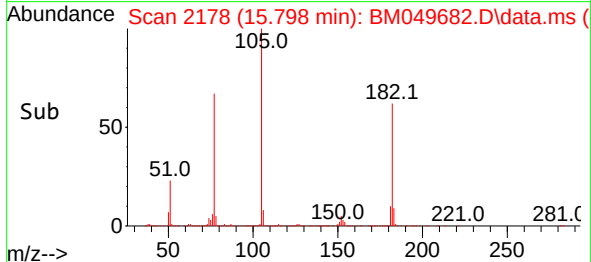
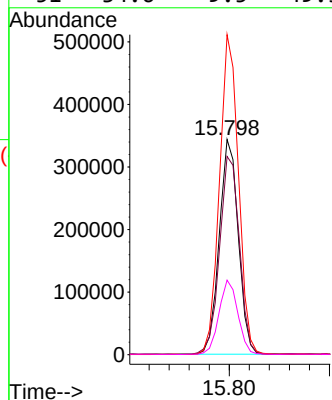
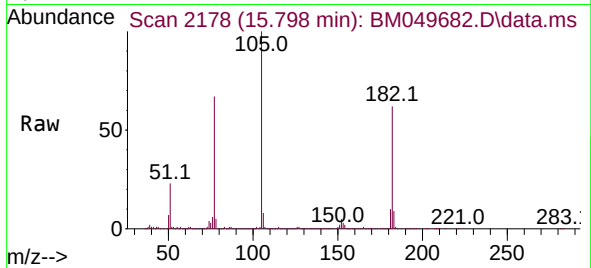




#63
 Azobenzene
 Concen: 8.226 ng
 RT: 15.798 min Scan# 2179
 Delta R.T. -0.006 min
 Lab File: BM049682.D
 Acq: 28 Feb 2025 17:15

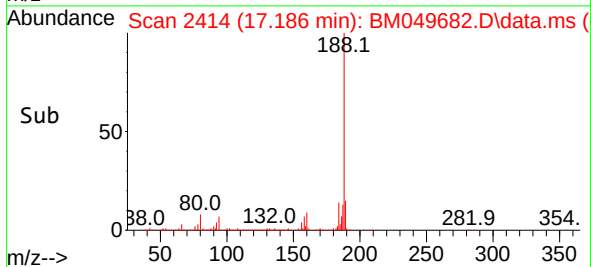
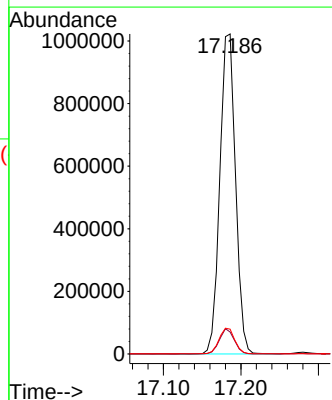
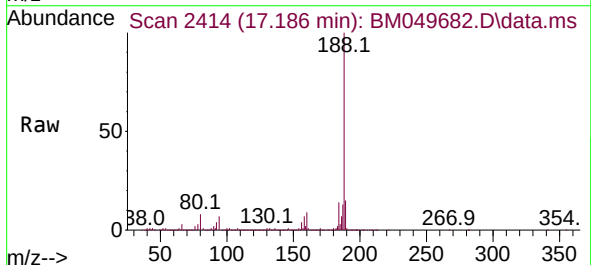
Instrument :
 BNA_M
 ClientSampleId :
 SP-SOIL

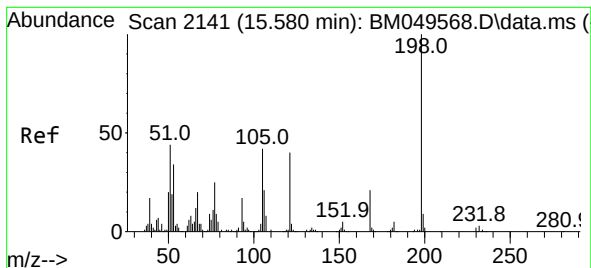
Tgt Ion: 77 Resp: 451919
 Ion Ratio Lower Upper
 77 100
 182 92.1 4.7 44.7#
 105 148.7 0.0 39.3#
 51 34.6 9.5 49.5



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.186 min Scan# 2414
 Delta R.T. -0.018 min
 Lab File: BM049682.D
 Acq: 28 Feb 2025 17:15

Tgt Ion: 188 Resp: 1436553
 Ion Ratio Lower Upper
 188 100
 94 6.9 6.7 10.1
 80 7.7 7.7 11.5

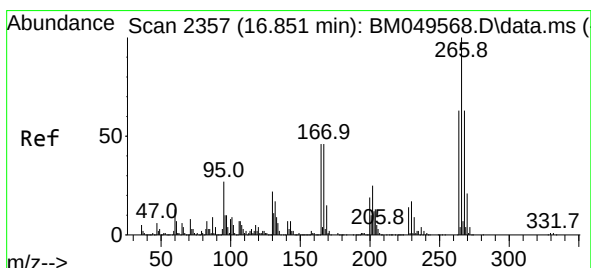
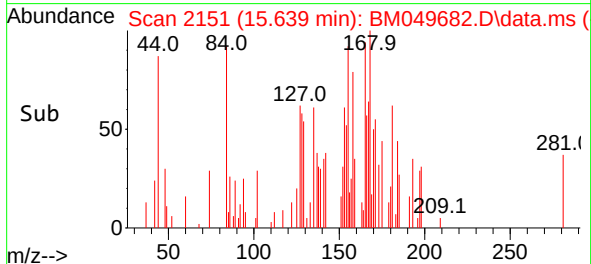
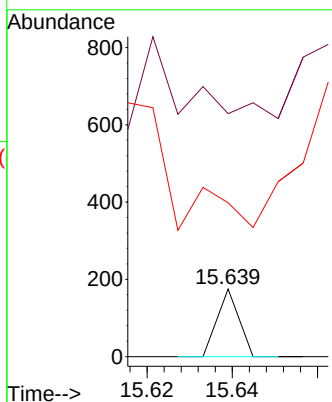
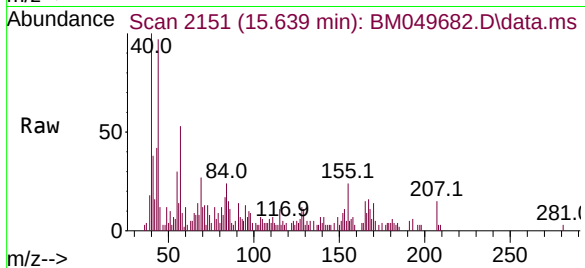




#65
4,6-Dinitro-2-methylphenol
Concen: 3.894 ng
RT: 15.639 min Scan# 2141
Delta R.T. 0.059 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

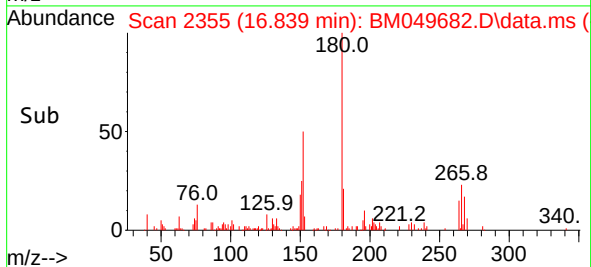
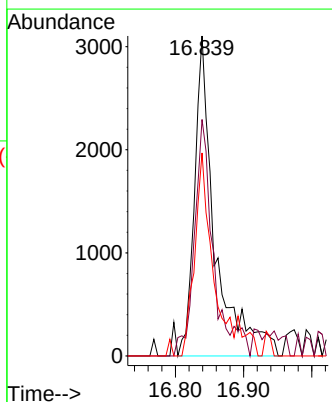
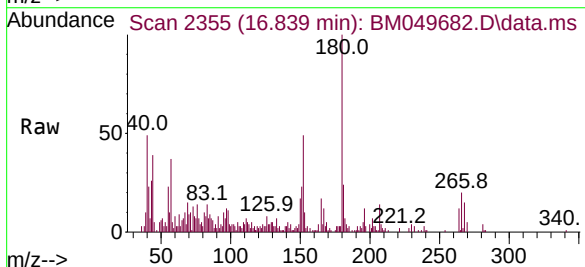
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

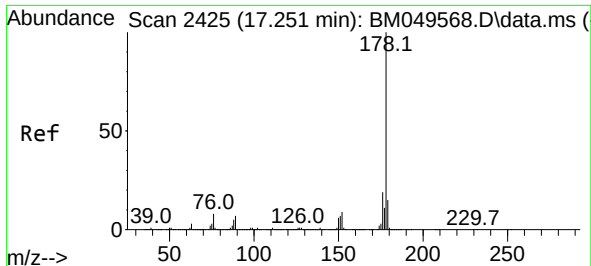
Tgt Ion:198 Resp: 62
Ion Ratio Lower Upper
198 100
51 359.4 26.9 66.9#
105 227.4 22.8 62.8#



#70
Pentachlorophenol
Concen: 8.168 ng
RT: 16.839 min Scan# 2355
Delta R.T. -0.012 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:266 Resp: 6514
Ion Ratio Lower Upper
266 100
268 73.9 50.8 76.2
264 63.4 50.0 75.0

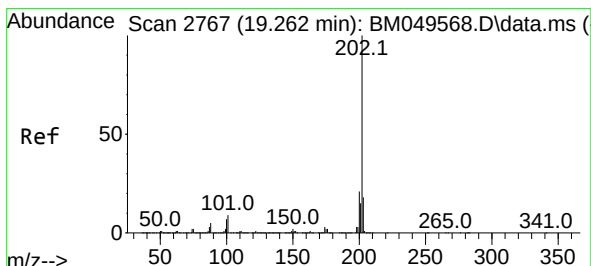
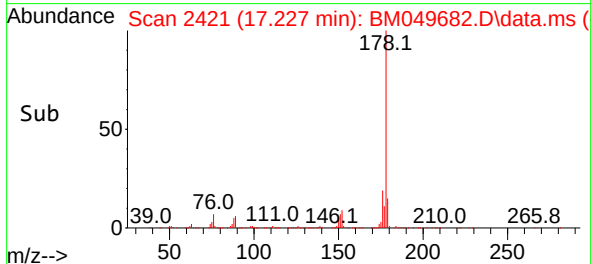
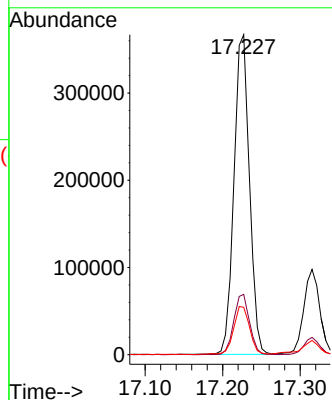
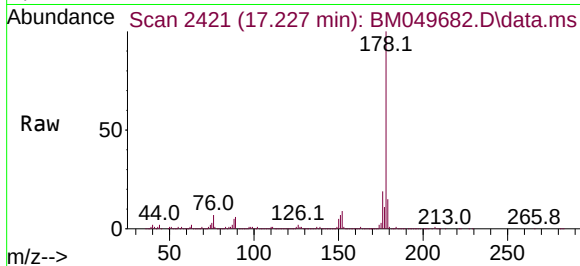




#71
Phenanthrene
Concen: 6.235 ng
RT: 17.227 min Scan# 2425
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

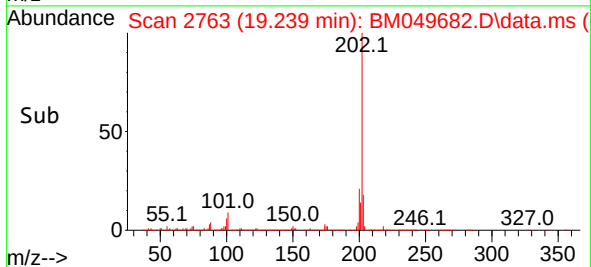
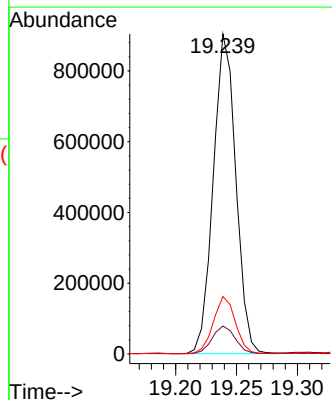
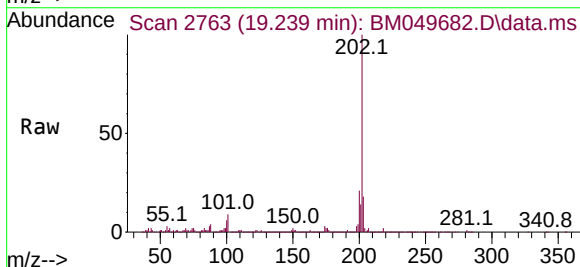
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

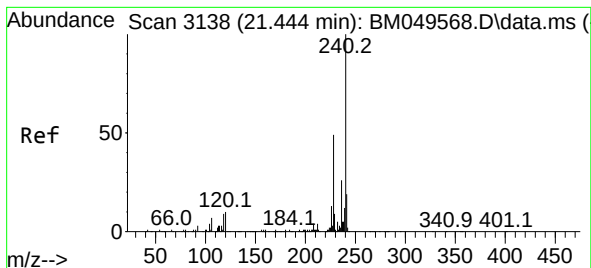
Tgt Ion:178 Resp: 510309
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 14.8 12.2 18.2



#75
Fluoranthene
Concen: 12.156 ng
RT: 19.239 min Scan# 2763
Delta R.T. -0.023 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

Tgt Ion:202 Resp: 1164688
Ion Ratio Lower Upper
202 100
101 8.8 0.0 29.1
203 17.9 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.421 min Scan# 31

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

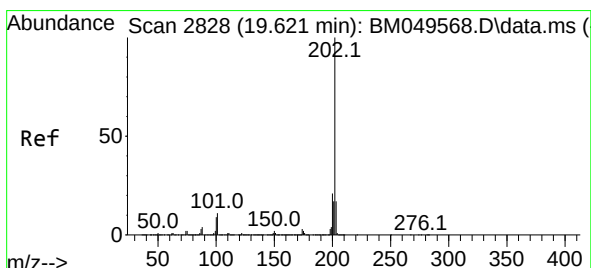
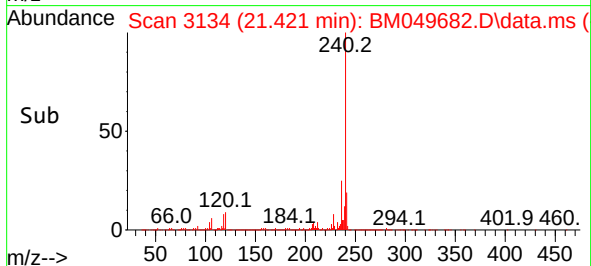
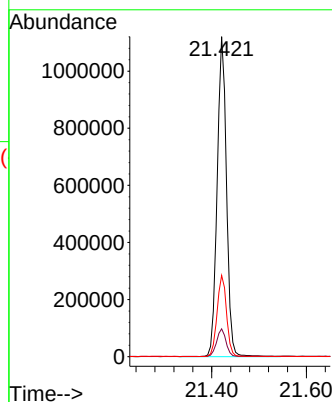
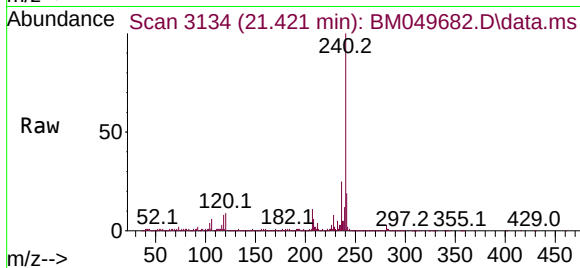
Tgt Ion:240 Resp: 1529138

Ion Ratio Lower Upper

240 100

120 8.7 7.8 11.8

236 25.4 20.6 31.0



#78

Pyrene

Concen: 11.256 ng

RT: 19.603 min Scan# 2825

Delta R.T. -0.018 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

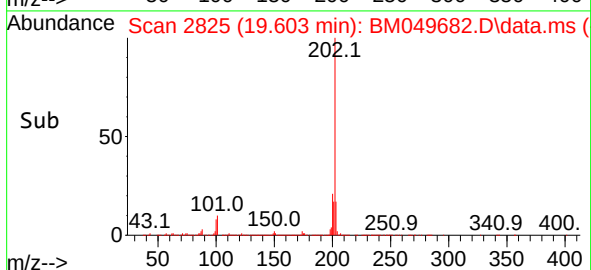
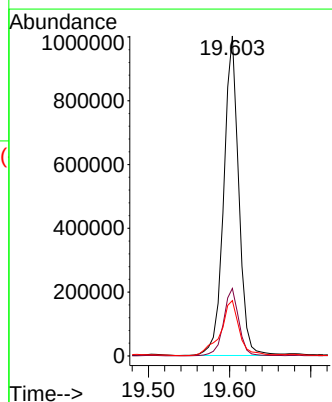
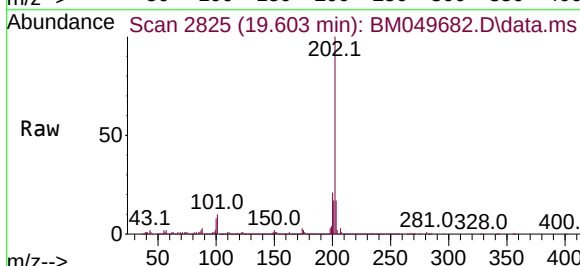
Tgt Ion:202 Resp: 1288825

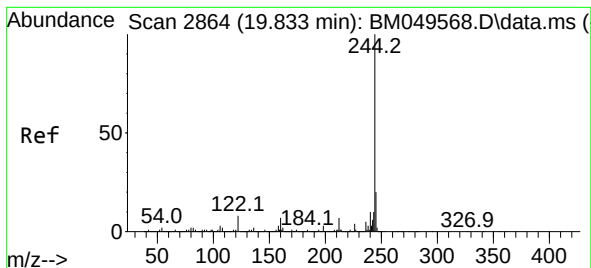
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.3 13.8 20.8





#79

Terphenyl-d14

Concen: 59.447 ng

RT: 19.809 min Scan# 21

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

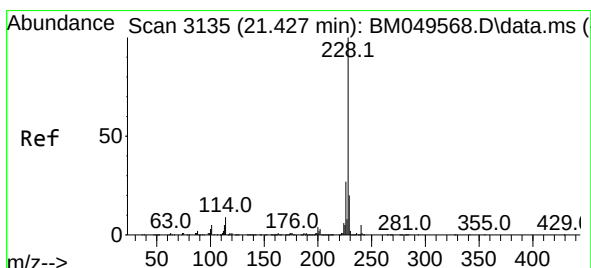
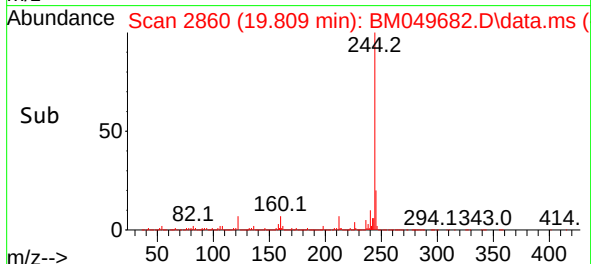
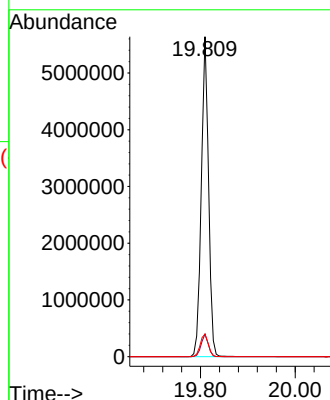
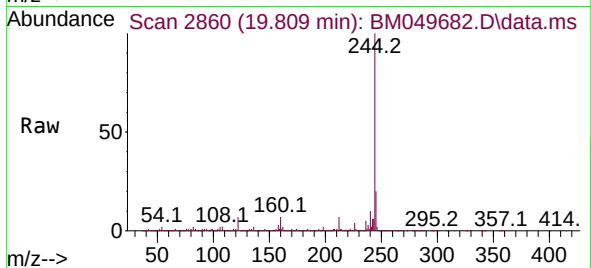
Tgt Ion:244 Resp: 5952851

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

122 7.1 6.2 9.2



#81

Benzo(a)anthracene

Concen: 5.742 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.023 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

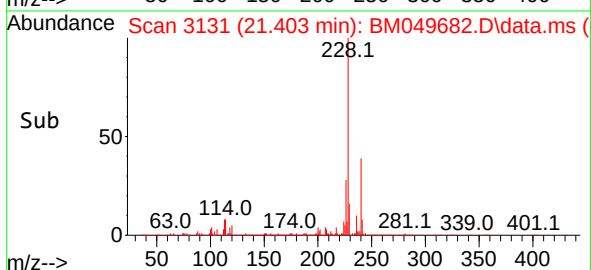
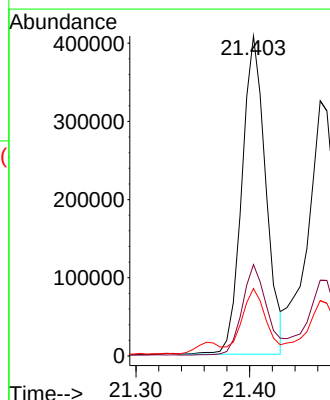
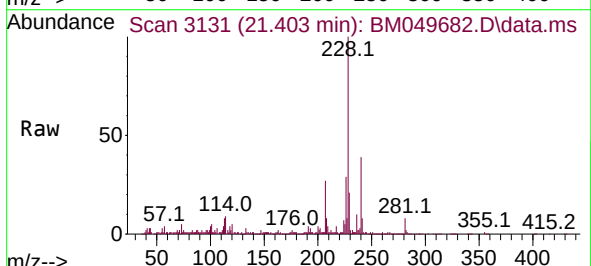
Tgt Ion:228 Resp: 595079

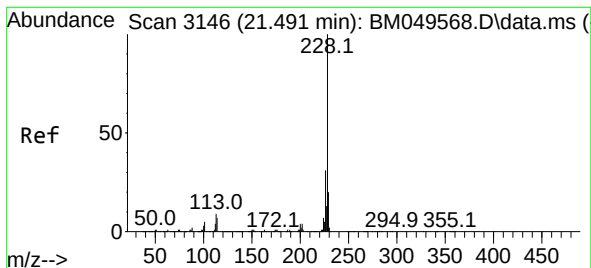
Ion Ratio Lower Upper

228 100

226 28.5 22.0 33.0

229 21.1 15.7 23.5





#83

Chrysene

Concen: 5.578 ng

RT: 21.462 min Scan# 3146

Delta R.T. -0.029 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

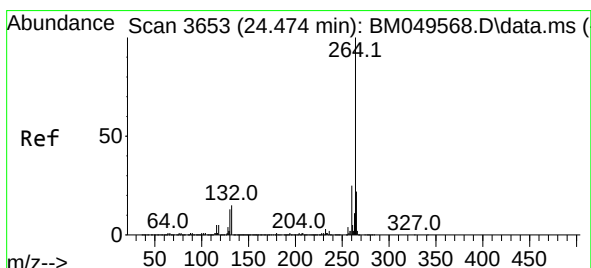
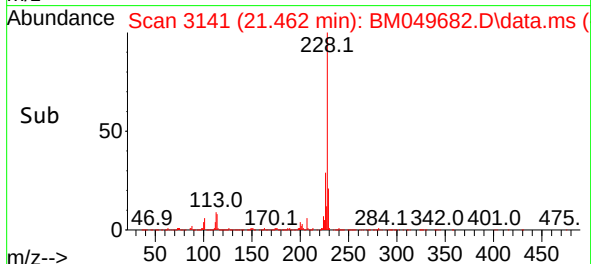
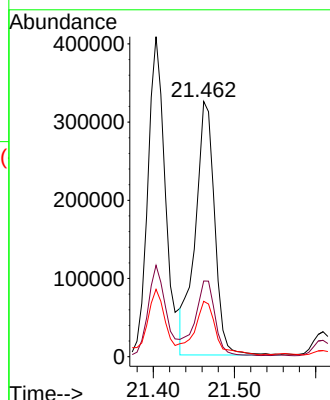
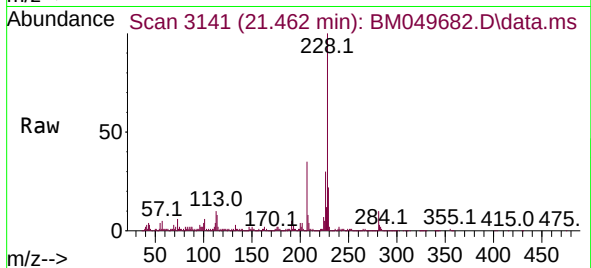
Tgt Ion:228 Resp: 541607

Ion Ratio Lower Upper

228 100

226 29.7 24.5 36.7

229 21.7 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.438 min Scan# 3647

Delta R.T. -0.035 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

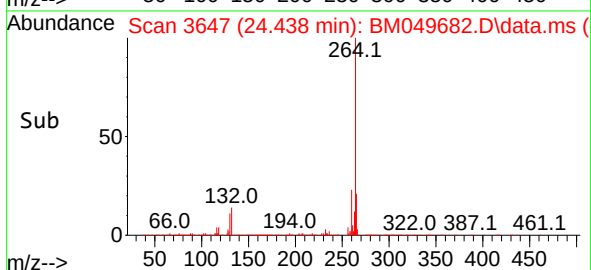
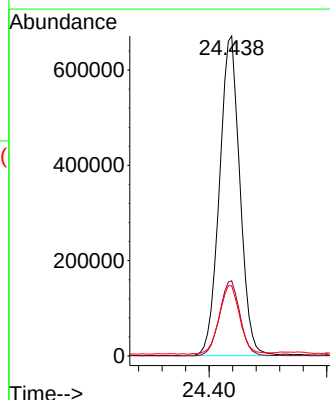
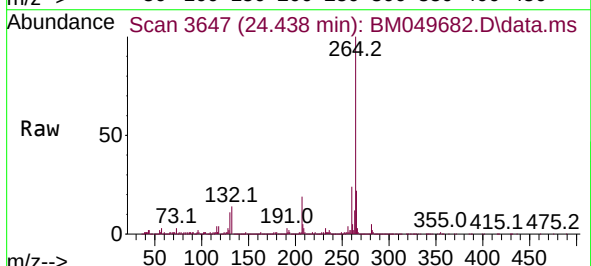
Tgt Ion:264 Resp: 1617229

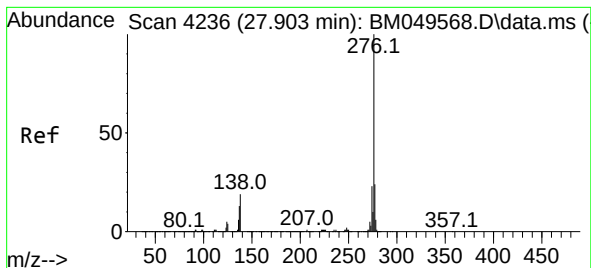
Ion Ratio Lower Upper

264 100

260 23.5 19.8 29.6

265 21.9 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.687 ng

RT: 27.821 min Scan# 41

Delta R.T. -0.082 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

Instrument :

BNA_M

ClientSampleId :

SP-SOIL

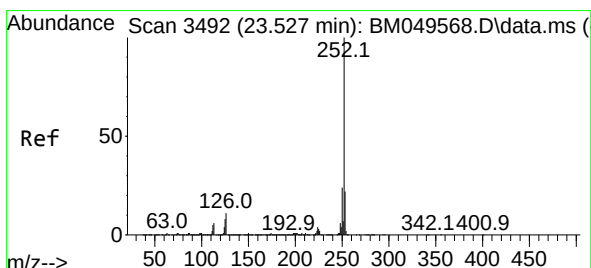
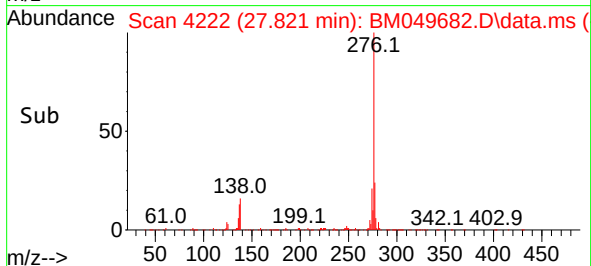
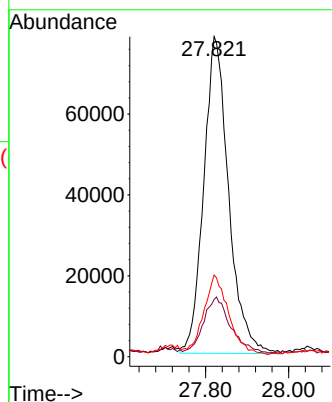
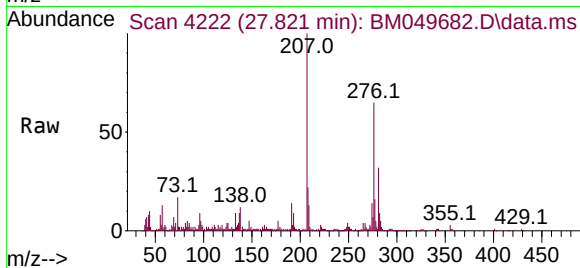
Tgt Ion:276 Resp: 325613

Ion Ratio Lower Upper

276 100

138 18.8 13.1 19.7

277 25.3 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 5.649 ng

RT: 23.486 min Scan# 3485

Delta R.T. -0.041 min

Lab File: BM049682.D

Acq: 28 Feb 2025 17:15

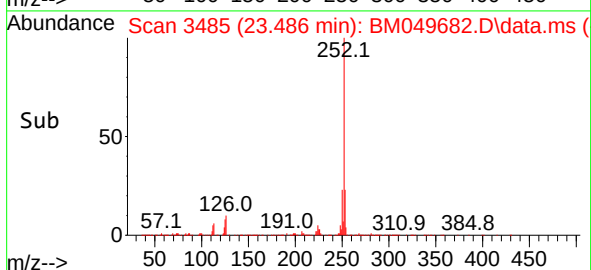
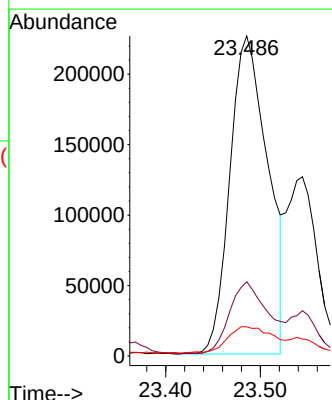
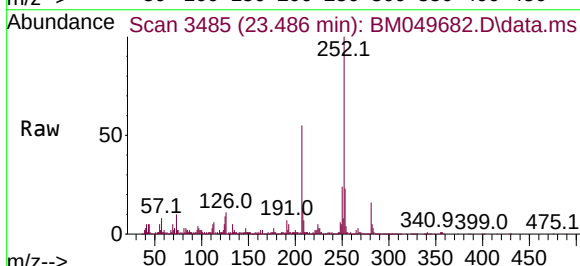
Tgt Ion:252 Resp: 628469

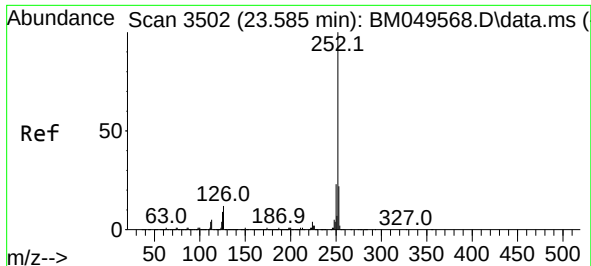
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.2

125 9.1 6.6 10.0

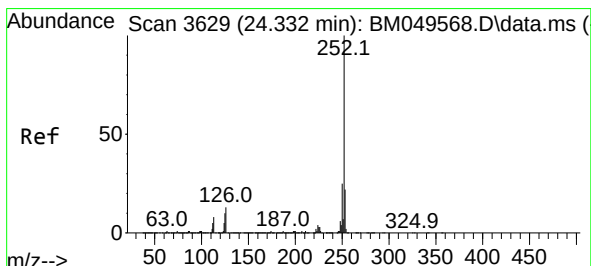
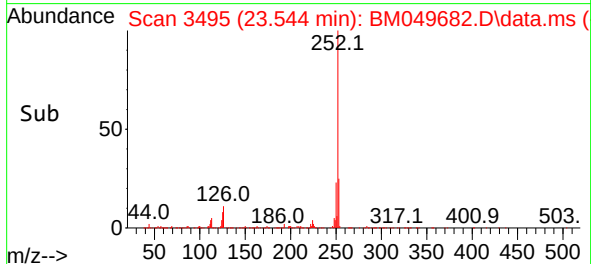
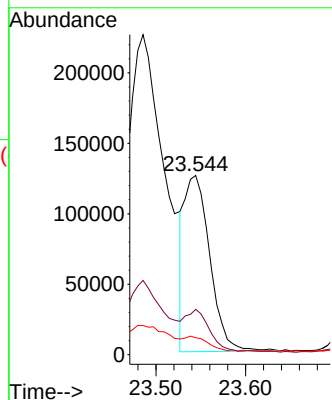
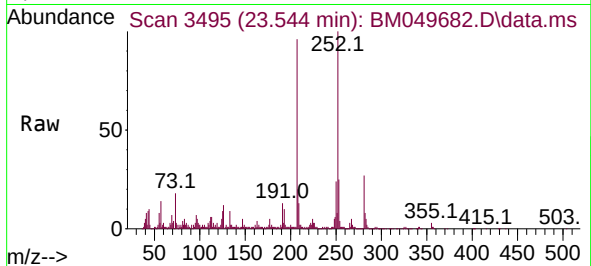




#89
Benzo(k)fluoranthene
Concen: 2.264 ng
RT: 23.544 min Scan# 34
Delta R.T. -0.041 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

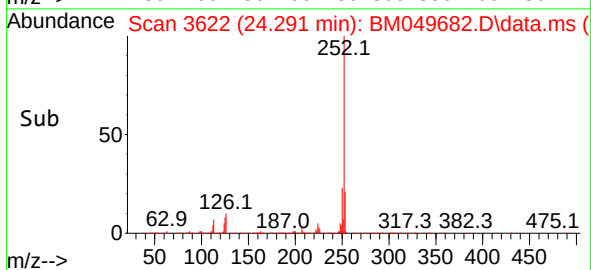
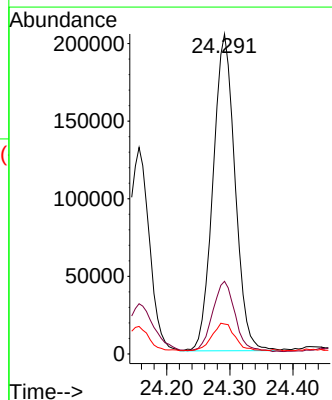
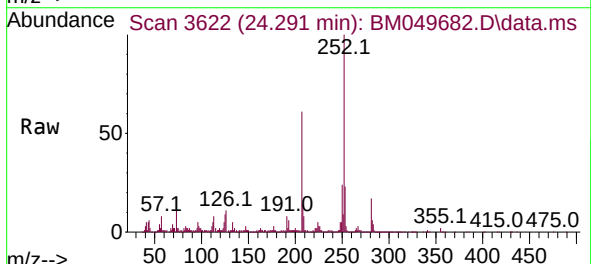
Instrument :
BNA_M
ClientSampleId :
SP-SOIL

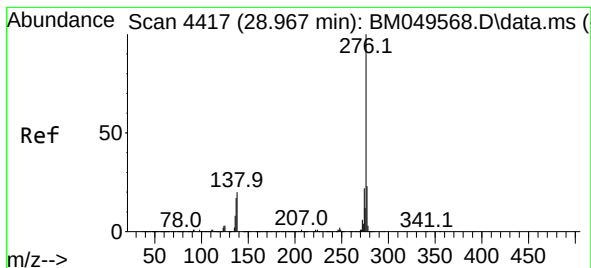
Tgt Ion:252 Resp: 244683
Ion Ratio Lower Upper
252 100
253 25.3 17.5 26.3
125 9.5 7.0 10.6



#90
Benzo(a)pyrene
Concen: 5.600 ng
RT: 24.291 min Scan# 3622
Delta R.T. -0.041 min
Lab File: BM049682.D
Acq: 28 Feb 2025 17:15

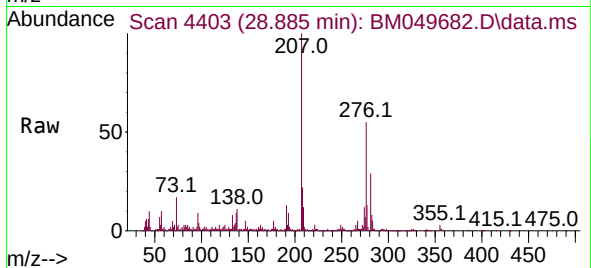
Tgt Ion:252 Resp: 493736
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 9.3 8.2 12.2





#92
 Benzo(g,h,i)perylene
 Concen: 4.053 ng
 RT: 28.885 min Scan# 44
 Delta R.T. -0.082 min
 Lab File: BM049682.D
 Acq: 28 Feb 2025 17:15

Instrument :
 BNA_M
 ClientSampleId :
 SP-SOIL



Tgt Ion:276 Resp: 316018
 Ion Ratio Lower Upper
 276 100
 277 23.5 18.7 28.1
 138 19.4 16.0 24.0

