

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049968.D
 Acq On : 18 Apr 2025 16:27
 Operator : RC/JU
 Sample : Q1830-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-1

Quant Time: Apr 18 17:14:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

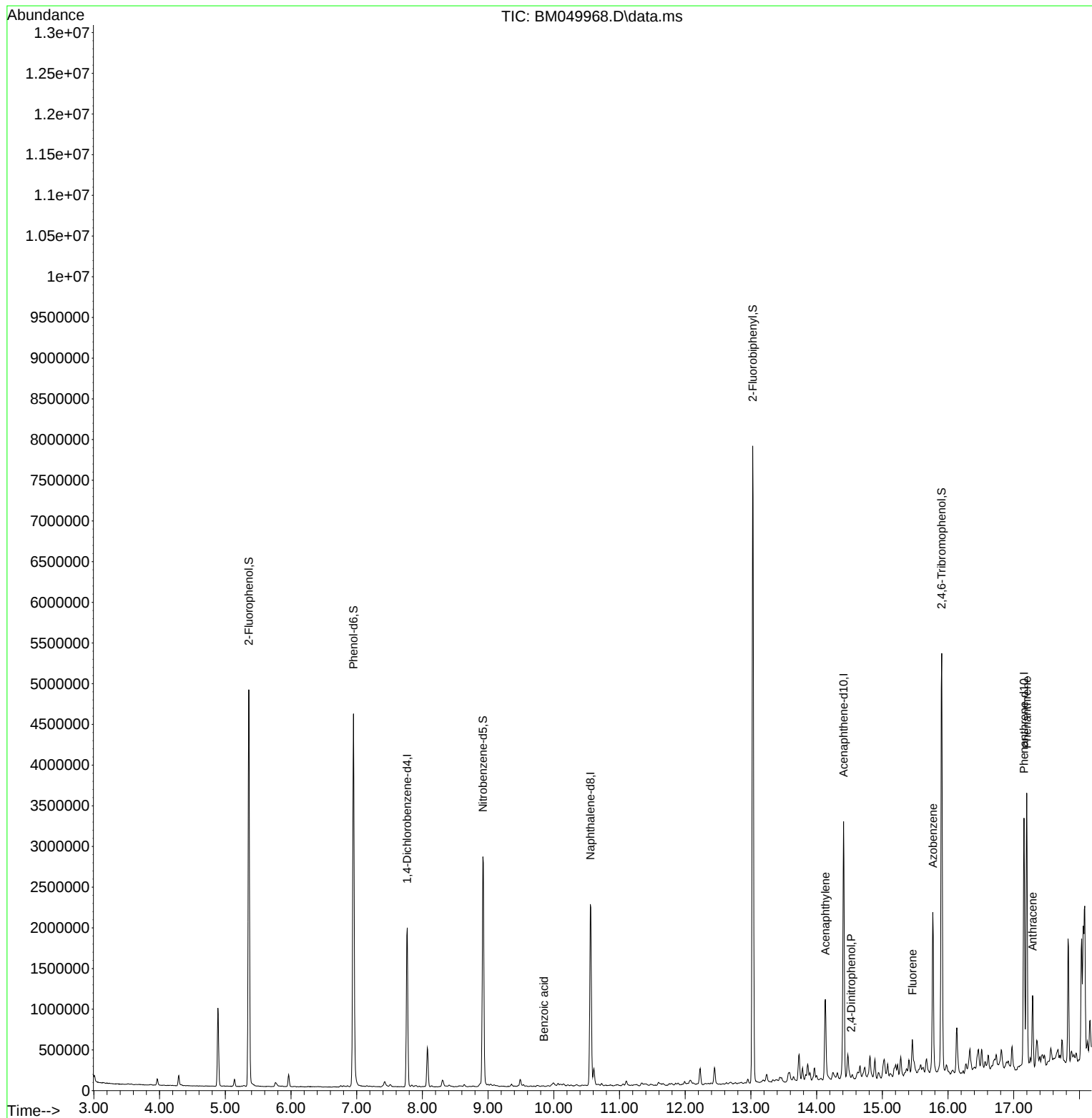
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	575372	20.000	ng	-0.01
21) Naphthalene-d8	10.557	136	1927182	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	1122933	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	1835696	20.000	ng	0.00
76) Chrysene-d12	21.392	240	1557172	20.000	ng	-0.01
86) Perylene-d12	24.397	264	1661753	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2203698	65.037	ng	0.00
7) Phenol-d6	6.951	99	2765541	65.600	ng	0.00
23) Nitrobenzene-d5	8.922	82	1677529	48.472	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	1089159	66.683	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	4321077	52.180	ng	-0.02
79) Terphenyl-d14	19.780	244	4450674	53.564	ng	-0.01
Target Compounds						
32) Benzoic acid	9.851	122	623	8.559	ng	# 18
49) Acenaphthylene	14.133	152	794778	8.316	ng	99
54) 2,4-Dinitrophenol	14.527	184	213	7.241	ng	# 1
58) Fluorene	15.457	166	222890	2.759	ng	97
63) Azobenzene	15.768	77	491944	7.563	ng	# 1
71) Phenanthrene	17.198	178	2053143	20.401	ng	100
72) Anthracene	17.286	178	580302	5.851	ng	99
75) Fluoranthene	19.215	202	3487486	28.184	ng	99
78) Pyrene	19.580	202	4160682	38.770	ng	99
81) Benzo(a)anthracene	21.374	228	1807836	17.469	ng	94
83) Chrysene	21.439	228	1976475	20.089	ng	97
87) Indeno(1,2,3-cd)pyrene	27.779	276	1145542	9.248	ng	97
88) Benzo(b)fluoranthene	23.450	252	2273046	21.418	ng	97
89) Benzo(k)fluoranthene	23.450	252	2273046	22.101	ng	97
90) Benzo(a)pyrene	24.256	252	1810307	19.411	ng	99
91) Dibenzo(a,h)anthracene	27.815	278	329870	3.233	ng	# 86
92) Benzo(g,h,i)perylene	28.844	276	1239027	11.884	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049968.D
Acq On : 18 Apr 2025 16:27
Operator : RC/JU
Sample : Q1830-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SOIL-1

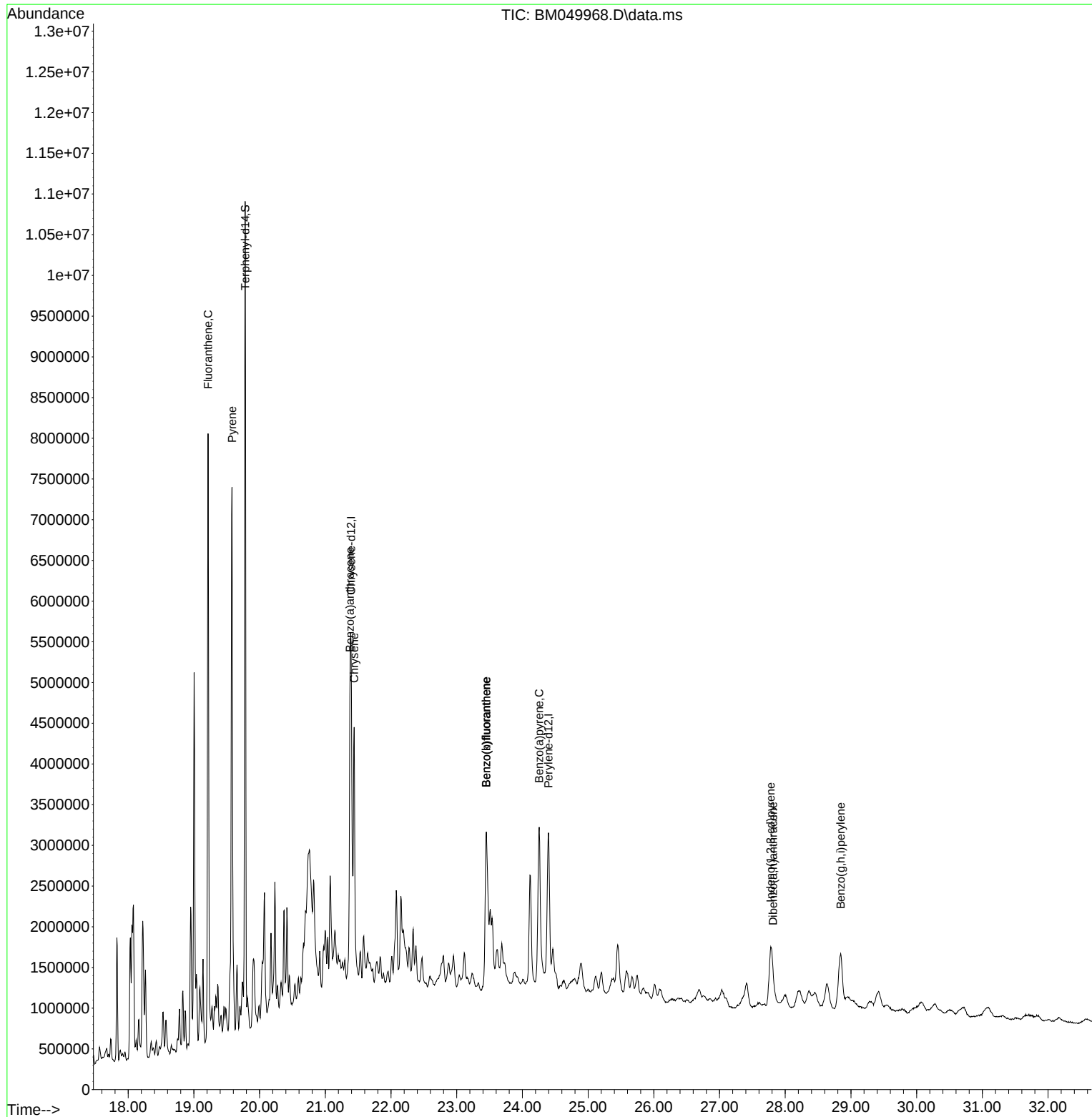
Quant Time: Apr 18 17:14:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

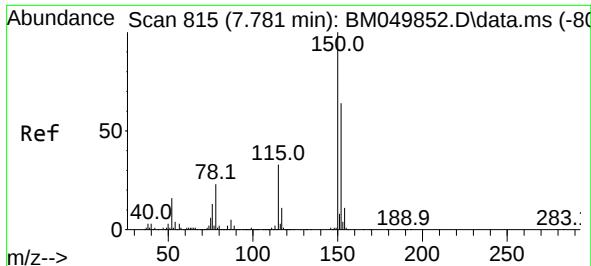


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049968.D
Acq On : 18 Apr 2025 16:27
Operator : RC/JU
Sample : Q1830-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SOIL-1

Quant Time: Apr 18 17:14:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

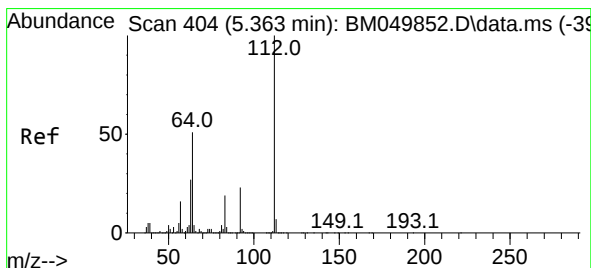
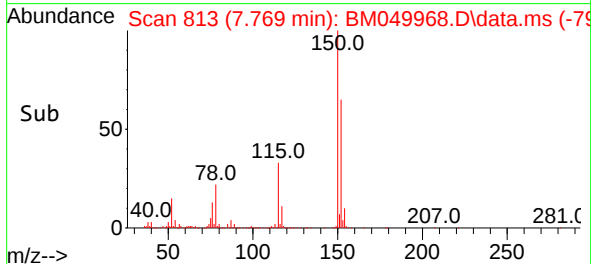
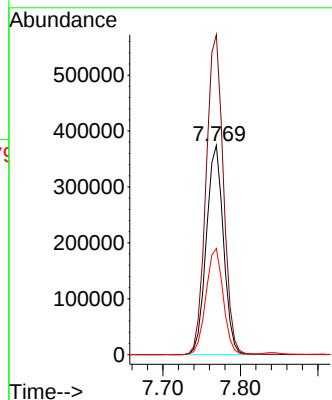
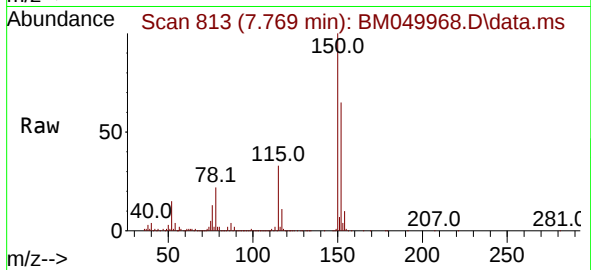




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

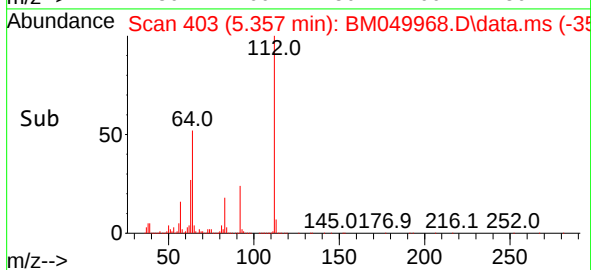
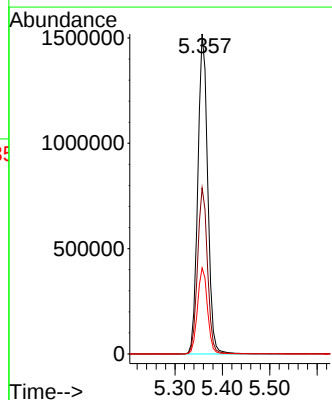
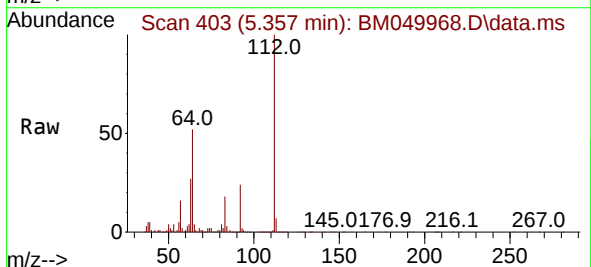
Instrument :
BNA_M
ClientSampleId :
SOIL-1

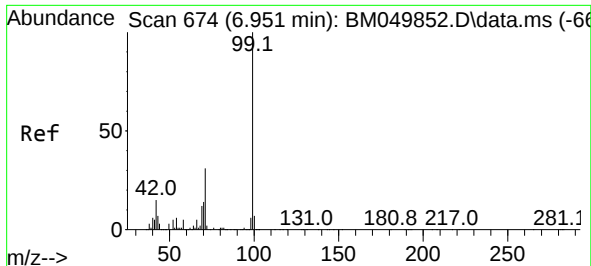
Tgt Ion:152 Resp: 575372
Ion Ratio Lower Upper
152 100
150 152.9 124.3 186.5
115 50.8 41.1 61.7



#5
2-Fluorophenol
Concen: 65.037 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:112 Resp: 2203698
Ion Ratio Lower Upper
112 100
64 51.9 41.0 61.6
63 26.9 21.5 32.3

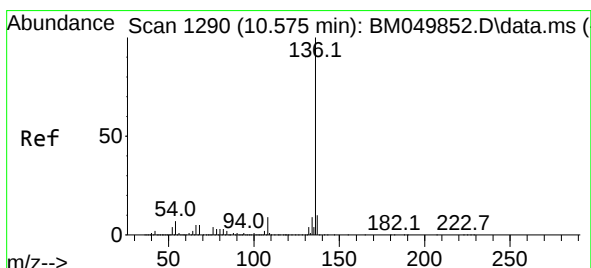
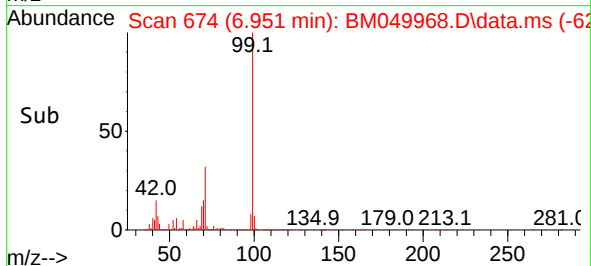
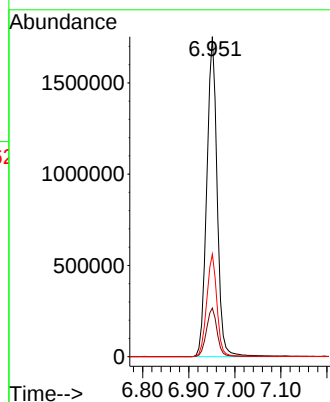
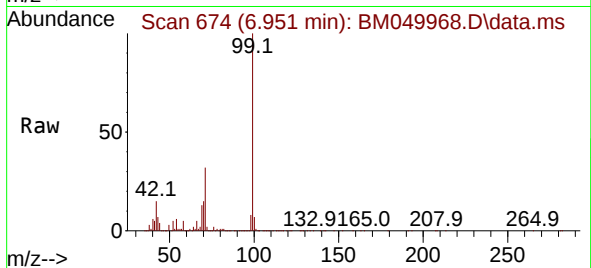




#7
Phenol-d6
Concen: 65.600 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

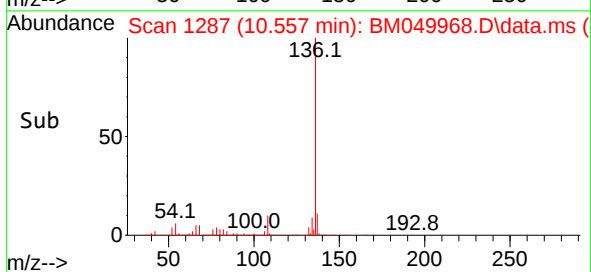
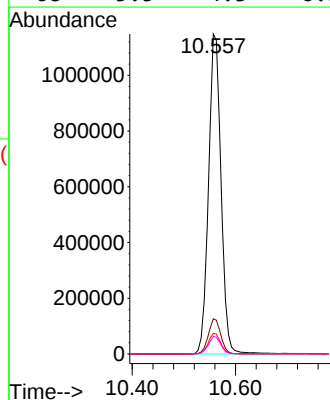
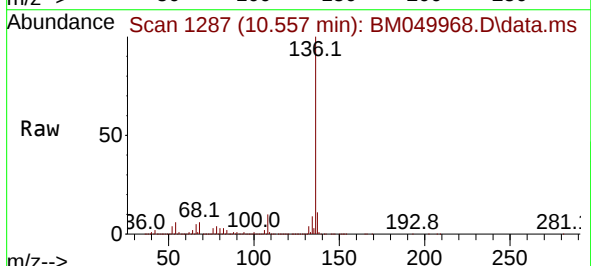
Instrument :
BNA_M
ClientSampleId :
SOIL-1

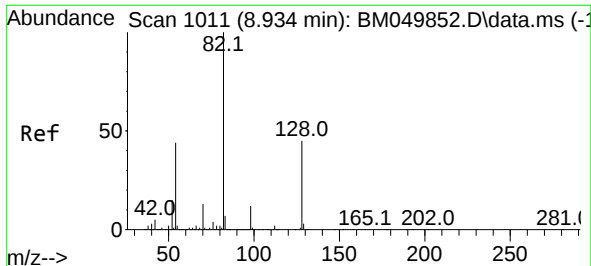
Tgt Ion: 99 Resp: 2765541
Ion Ratio Lower Upper
99 100
42 15.2 12.1 18.1
71 32.0 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion: 136 Resp: 1927182
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.5 5.3 7.9
68 5.5 4.3 6.5

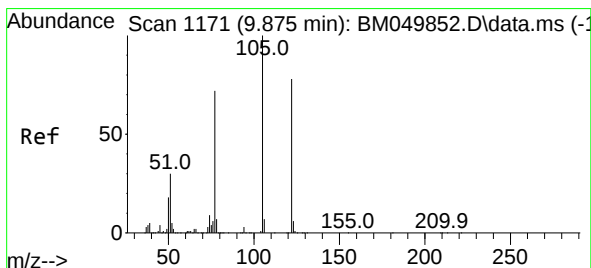
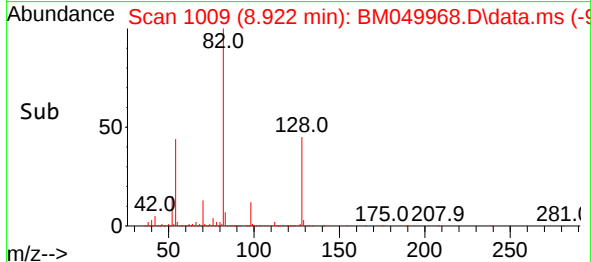
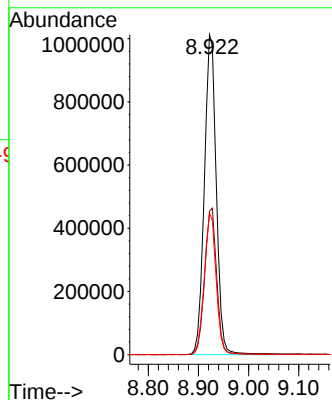
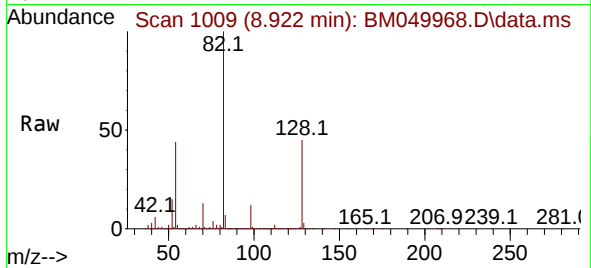




#23
Nitrobenzene-d5
Concen: 48.472 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

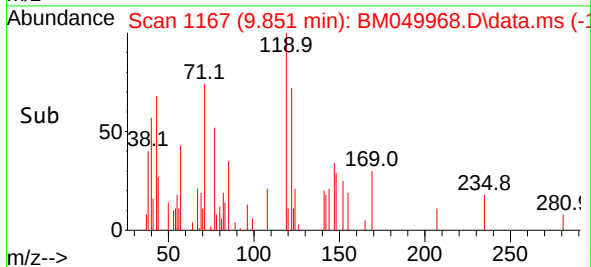
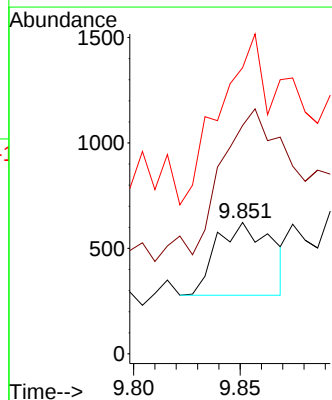
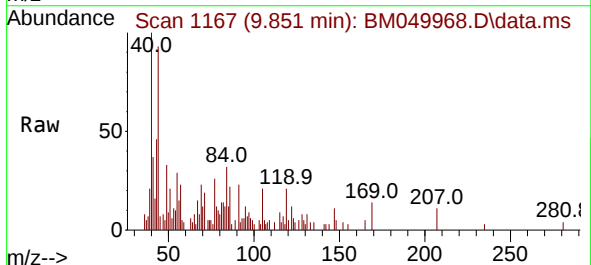
Instrument :
BNA_M
ClientSampleId :
SOIL-1

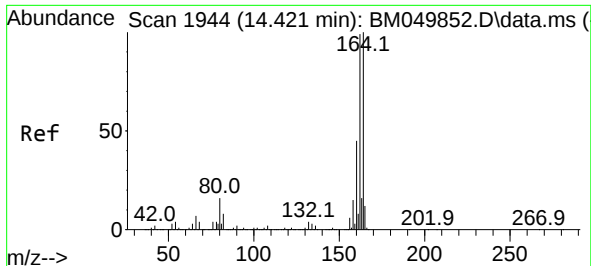
Tgt Ion: 82 Resp: 1677529
Ion Ratio Lower Upper
82 100
128 44.8 36.2 54.2
54 44.2 35.0 52.6



#32
Benzoic acid
Concen: 8.559 ng
RT: 9.851 min Scan# 1167
Delta R.T. -0.024 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:122 Resp: 623
Ion Ratio Lower Upper
122 100
105 173.8 103.8 143.8#
77 217.8 70.7 110.7#

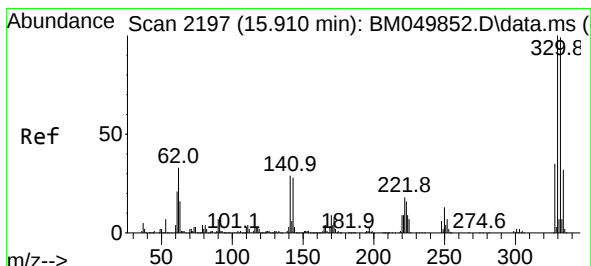
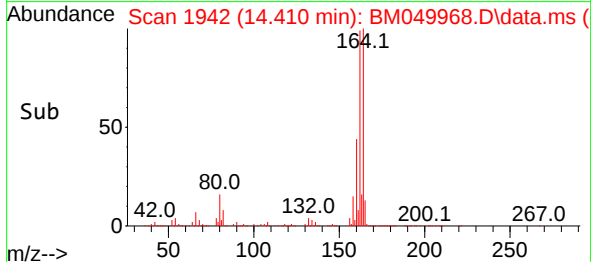
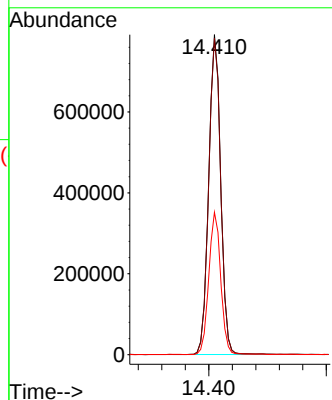
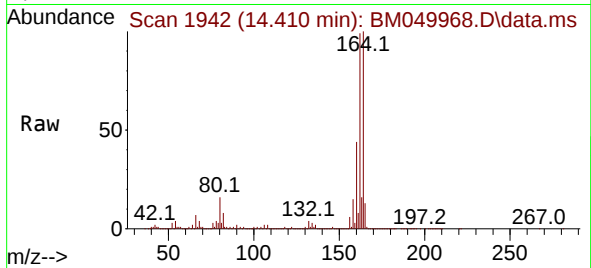




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

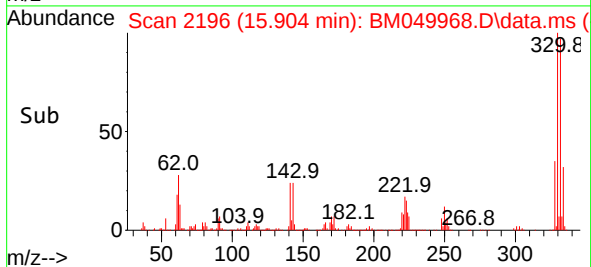
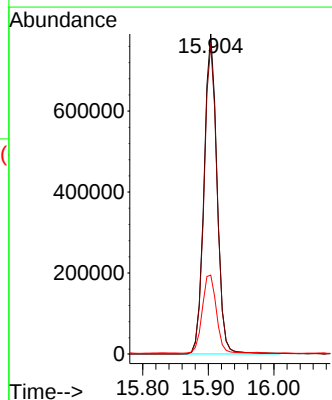
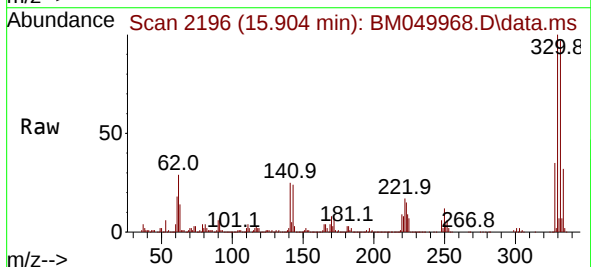
Instrument :
BNA_M
ClientSampleId :
SOIL-1

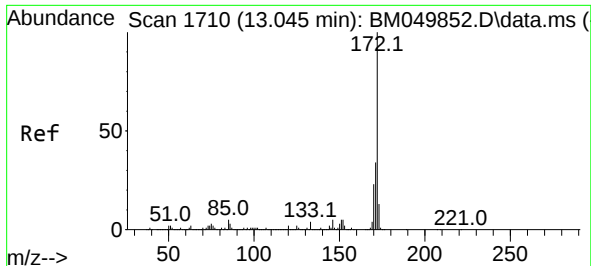
Tgt Ion:164 Resp: 1122933
Ion Ratio Lower Upper
164 100
162 98.9 79.4 119.0
160 44.5 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 66.683 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:330 Resp: 1089159
Ion Ratio Lower Upper
330 100
332 97.4 78.0 117.0
141 26.4 23.5 35.3

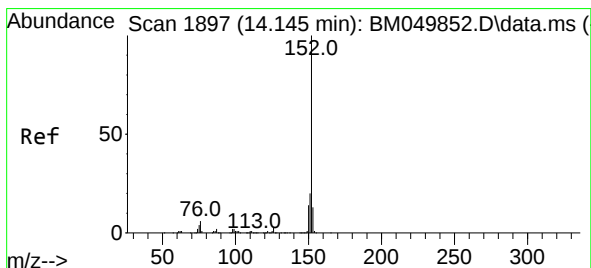
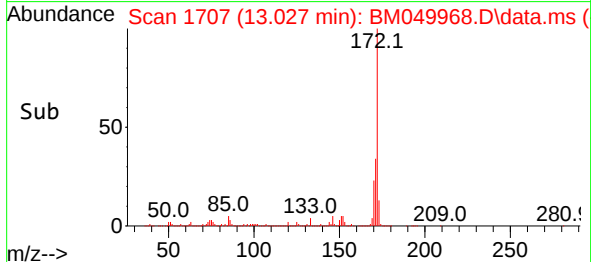
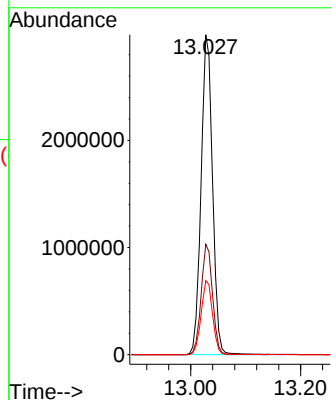
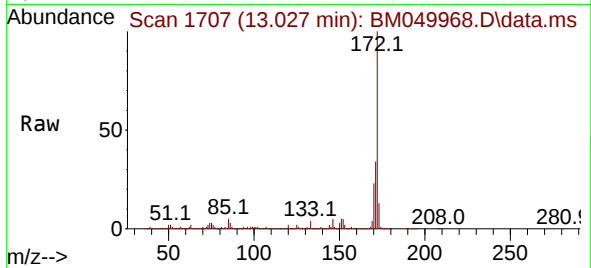




#45
2-Fluorobiphenyl
Concen: 52.180 ng
RT: 13.027 min Scan# 1707
Delta R.T. -0.018 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

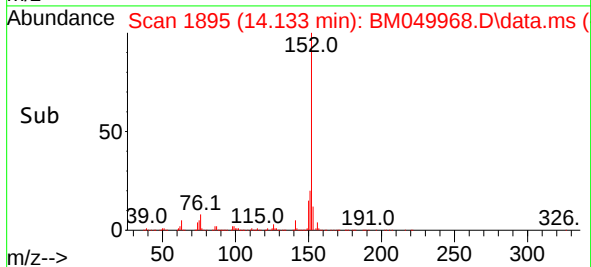
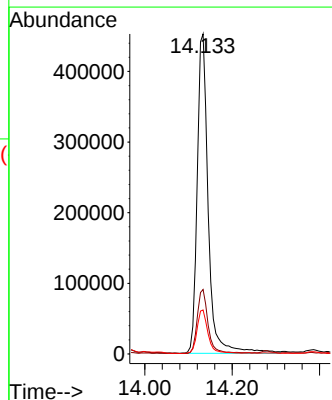
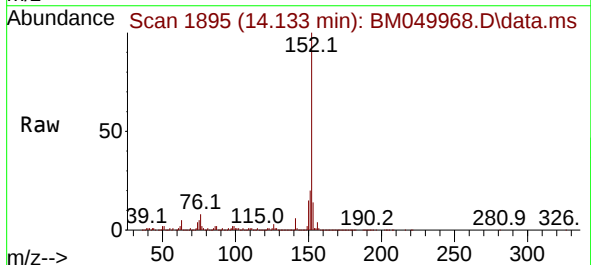
Instrument :
BNA_M
ClientSampleId :
SOIL-1

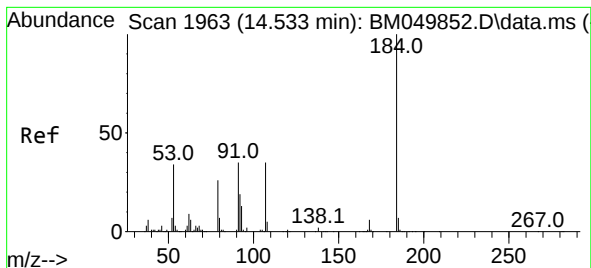
Tgt Ion:172 Resp: 4321077
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.2
170 23.2 18.6 28.0



#49
Acenaphthylene
Concen: 8.316 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:152 Resp: 794778
Ion Ratio Lower Upper
152 100
151 20.2 15.7 23.5
153 13.7 10.4 15.6

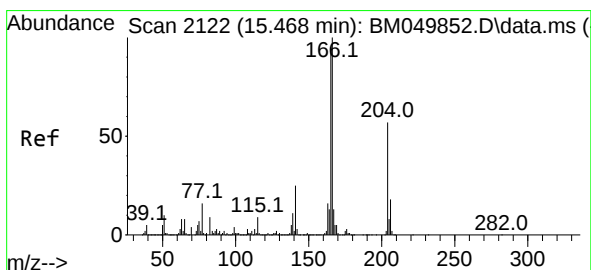
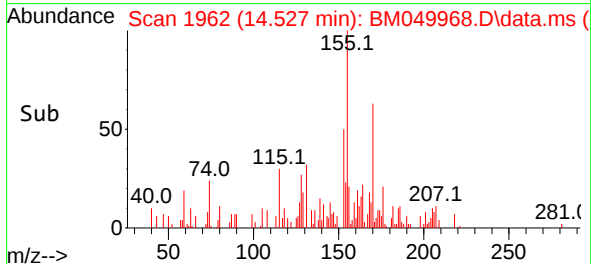
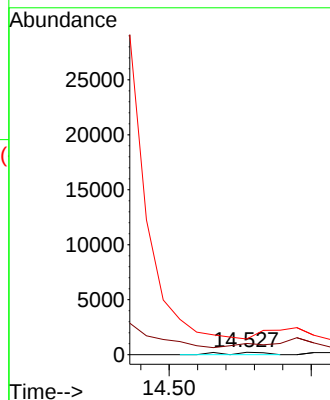
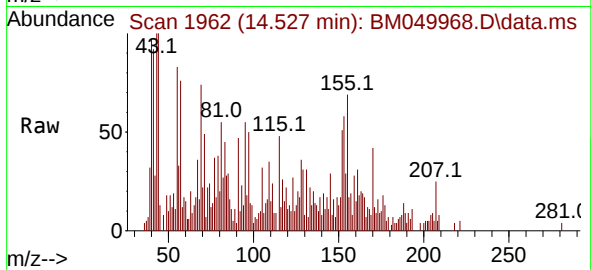




#54
2,4-Dinitrophenol
Concen: 7.241 ng
RT: 14.527 min Scan# 1962
Delta R.T. -0.006 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

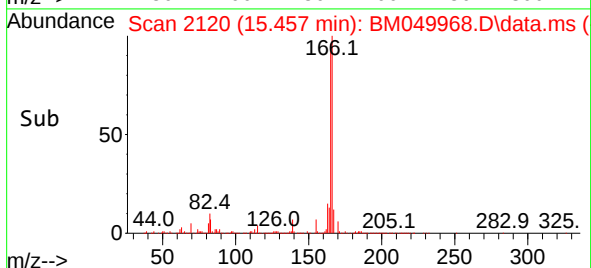
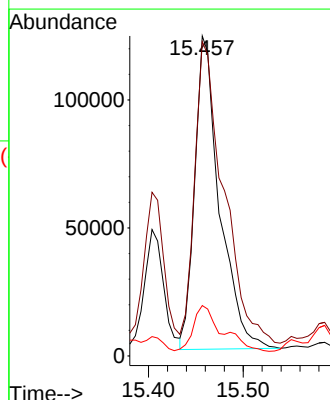
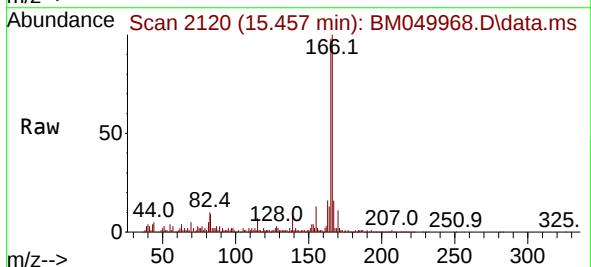
Instrument :
BNA_M
ClientSampleId :
SOIL-1

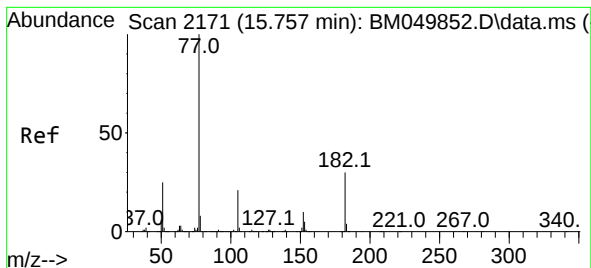
Tgt Ion:184 Resp: 213
Ion Ratio Lower Upper
184 100
63 470.8 38.4 57.6#
154 663.4 48.1 72.1#



#58
Fluorene
Concen: 2.759 ng
RT: 15.457 min Scan# 2120
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:166 Resp: 222890
Ion Ratio Lower Upper
166 100
165 98.2 76.3 114.5
167 15.8 10.7 16.1





#63

Azobenzene

Concen: 7.563 ng

RT: 15.768 min Scan# 2171

Delta R.T. 0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

Tgt Ion: 77 Resp: 491944

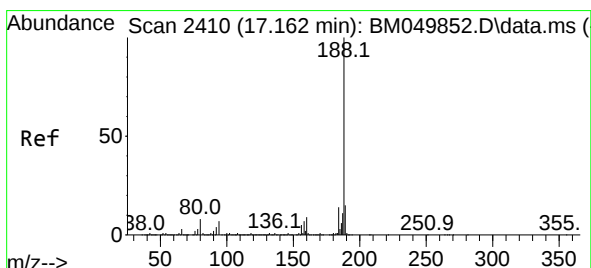
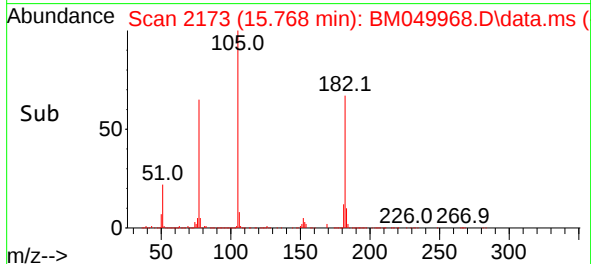
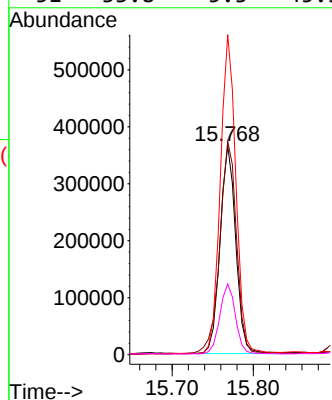
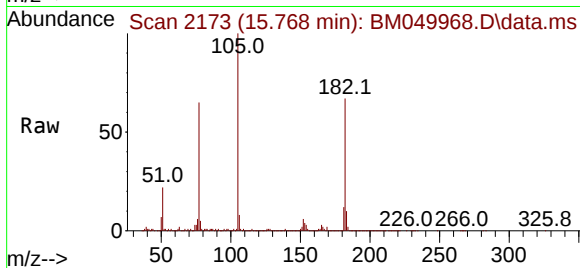
Ion Ratio Lower Upper

77 100

182 102.1 10.4 50.4#

105 153.1 1.5 41.5#

51 33.8 5.3 45.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2409

Delta R.T. -0.006 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

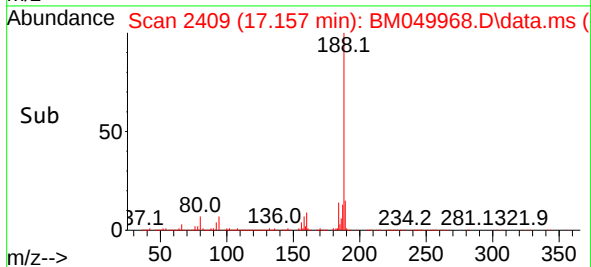
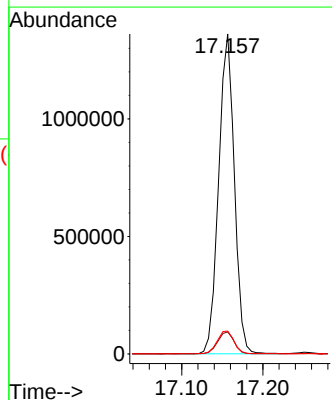
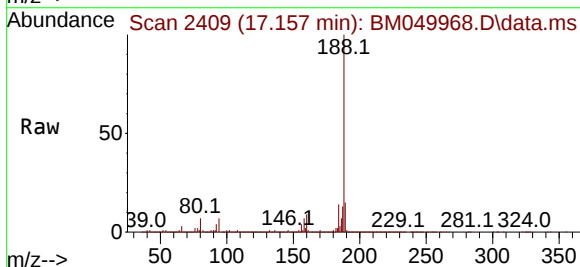
Tgt Ion:188 Resp: 1835696

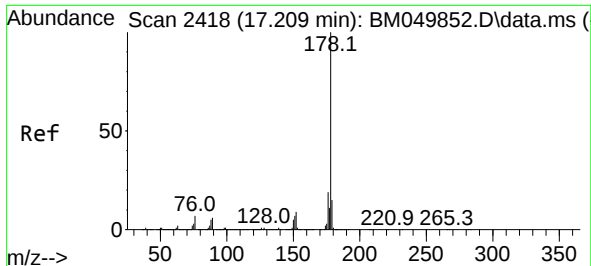
Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

80 7.1 6.4 9.6

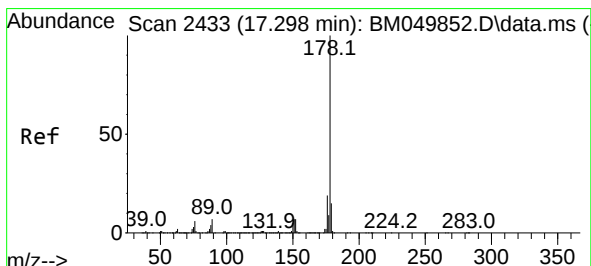
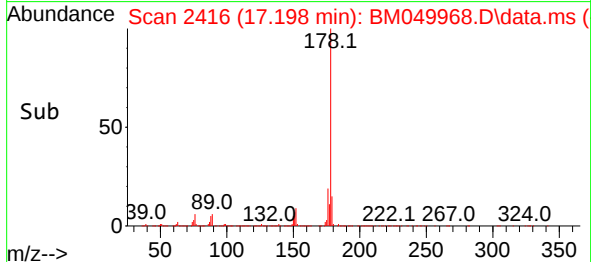
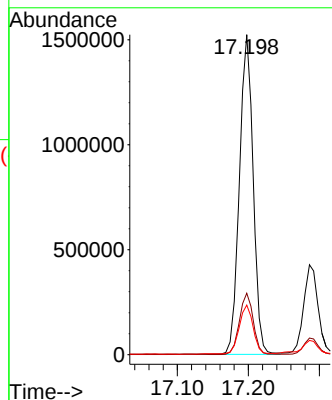
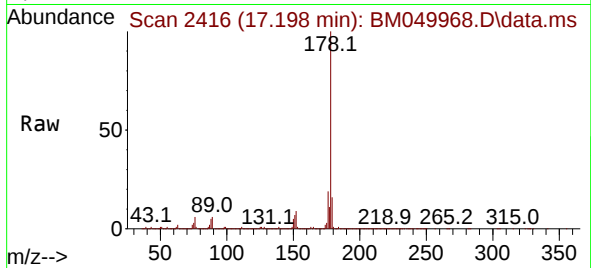




#71
Phenanthrene
Concen: 20.401 ng
RT: 17.198 min Scan# 2418
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

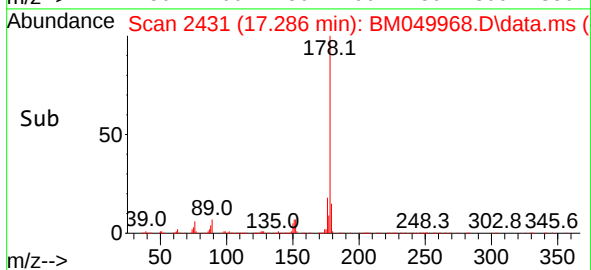
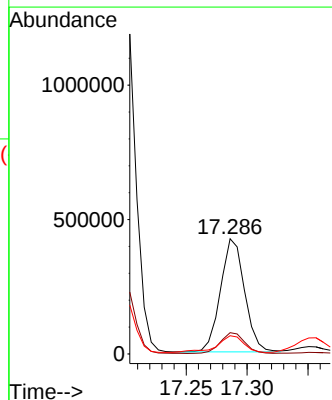
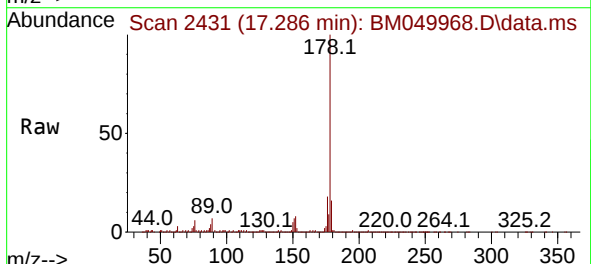
Instrument :
BNA_M
ClientSampleId :
SOIL-1

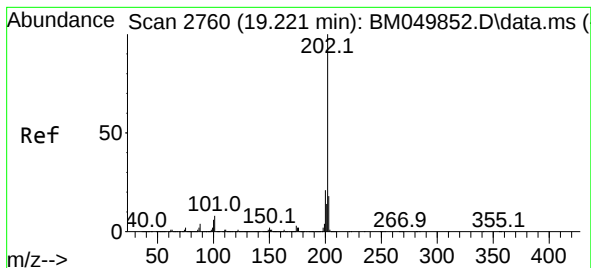
Tgt Ion:178 Resp: 2053143
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.5 12.3 18.5



#72
Anthracene
Concen: 5.851 ng
RT: 17.286 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:178 Resp: 580302
Ion Ratio Lower Upper
178 100
176 18.4 15.1 22.7
179 15.8 12.4 18.6





#75

Fluoranthene

Concen: 28.184 ng

RT: 19.215 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

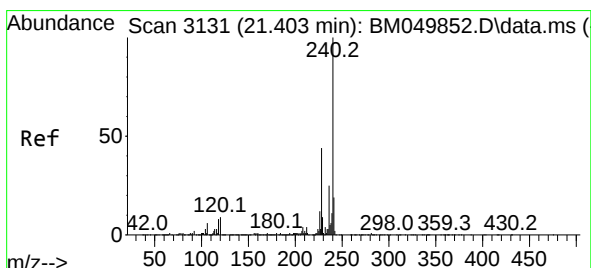
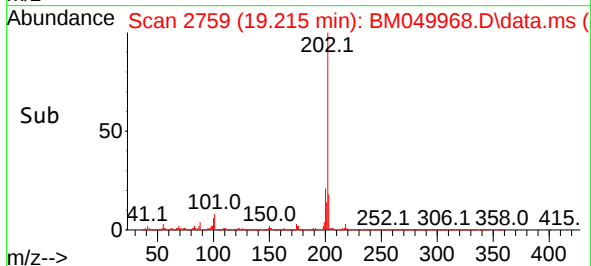
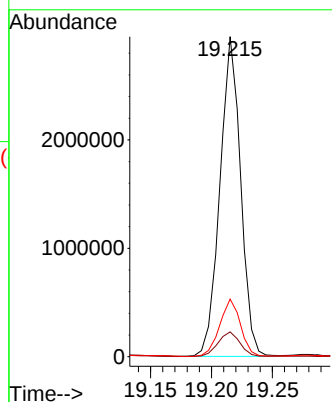
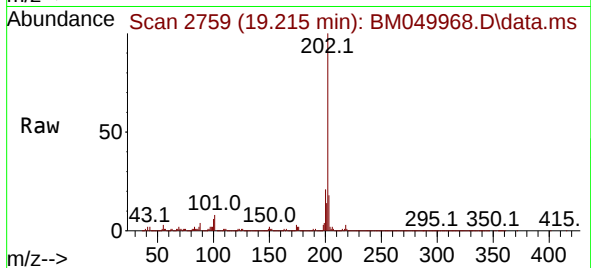
Tgt Ion:202 Resp: 3487486

Ion Ratio Lower Upper

202 100

101 7.7 0.0 28.4

203 18.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.392 min Scan# 3129

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

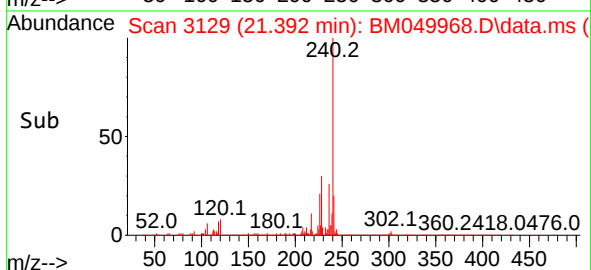
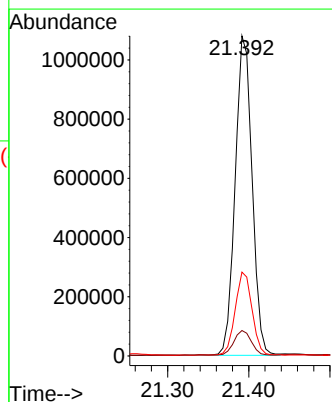
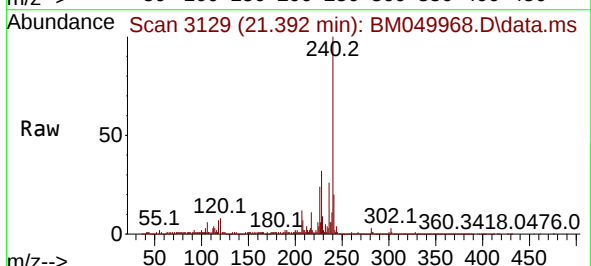
Tgt Ion:240 Resp: 1557172

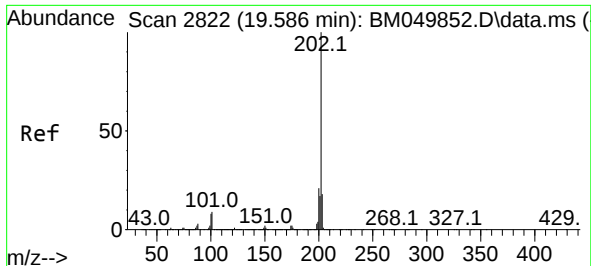
Ion Ratio Lower Upper

240 100

120 7.9 6.9 10.3

236 26.2 20.4 30.6

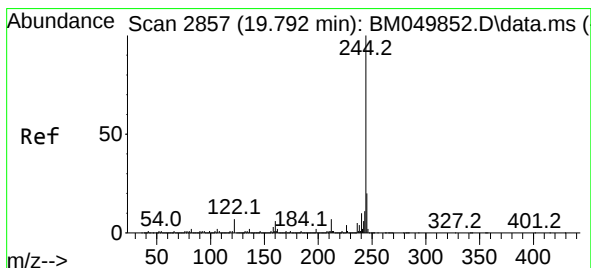
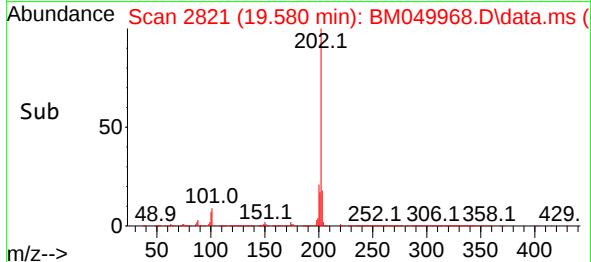
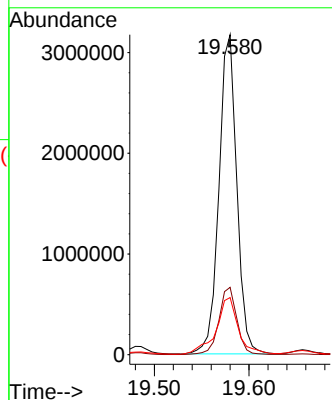
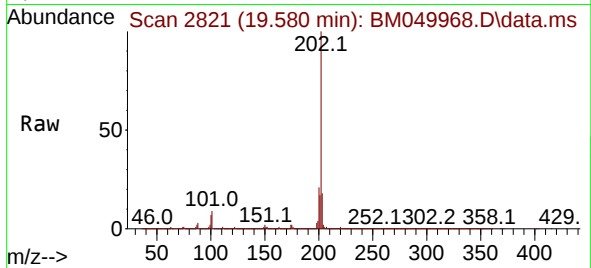




#78
 Pyrene
 Concen: 38.770 ng
 RT: 19.580 min Scan# 2822
 Delta R.T. -0.006 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

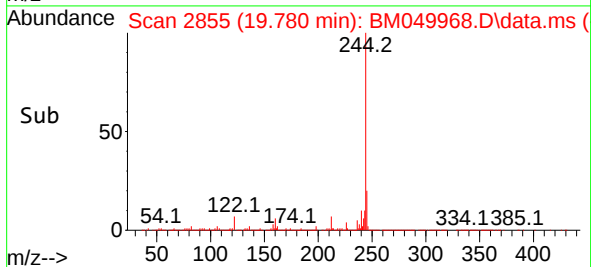
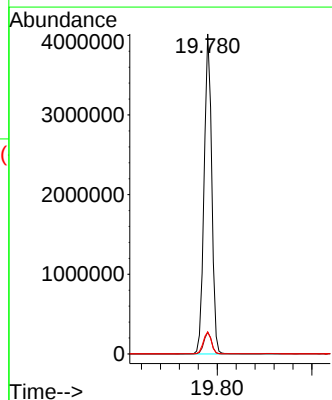
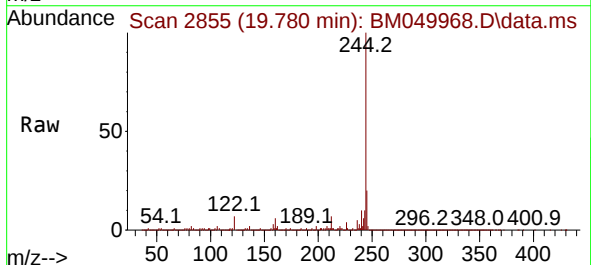
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-1

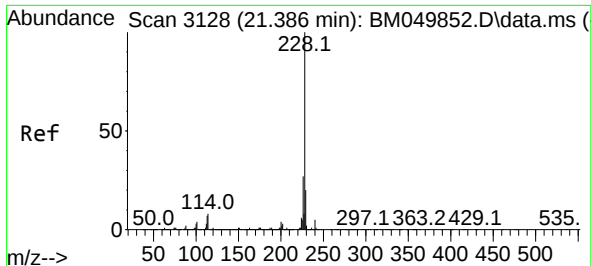
Tgt Ion:202 Resp: 4160682
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.5 24.7
 203 17.9 14.0 21.0



#79
 Terphenyl-d14
 Concen: 53.564 ng
 RT: 19.780 min Scan# 2855
 Delta R.T. -0.012 min
 Lab File: BM049968.D
 Acq: 18 Apr 2025 16:27

Tgt Ion:244 Resp: 4450674
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 6.9 5.4 8.0

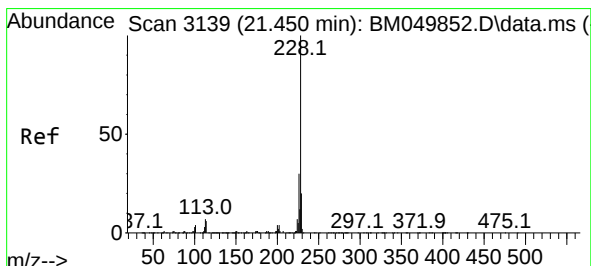
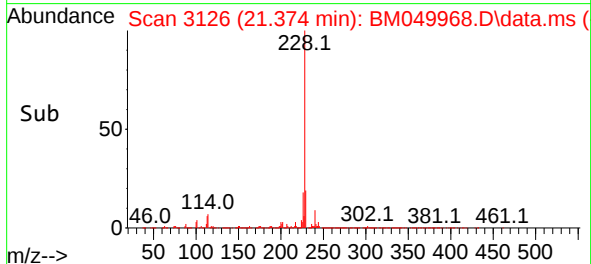
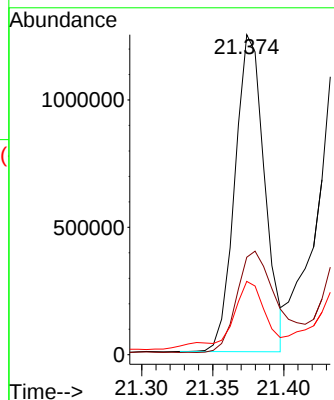
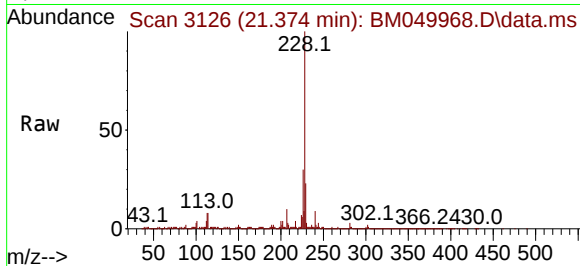




#81
Benzo(a)anthracene
Concen: 17.469 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

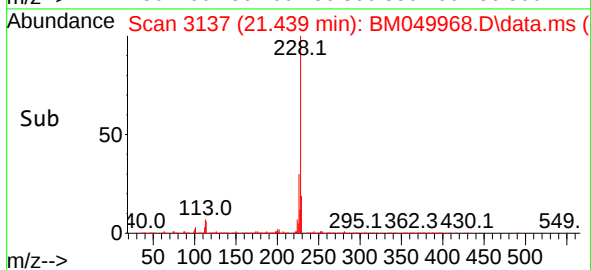
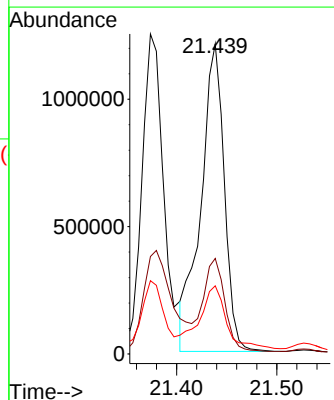
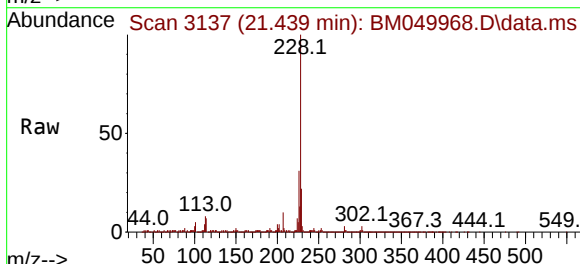
Instrument :
BNA_M
ClientSampleId :
SOIL-1

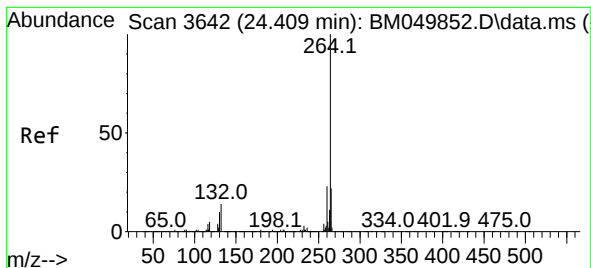
Tgt Ion:228 Resp: 1807836
Ion Ratio Lower Upper
228 100
226 30.5 21.8 32.8
229 22.9 15.8 23.8



#83
Chrysene
Concen: 20.089 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049968.D
Acq: 18 Apr 2025 16:27

Tgt Ion:228 Resp: 1976475
Ion Ratio Lower Upper
228 100
226 30.8 24.1 36.1
229 22.0 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

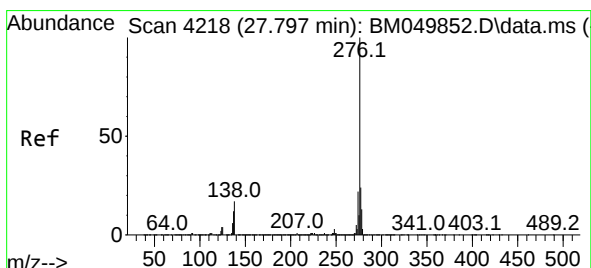
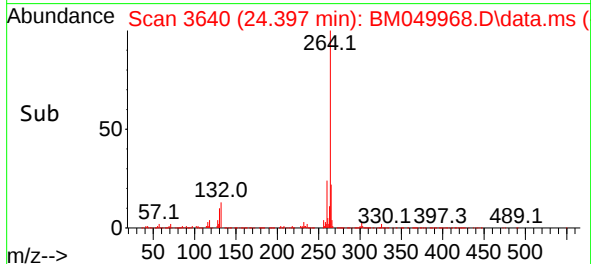
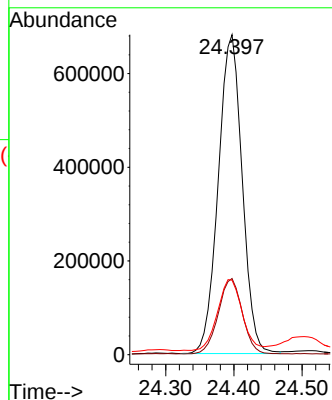
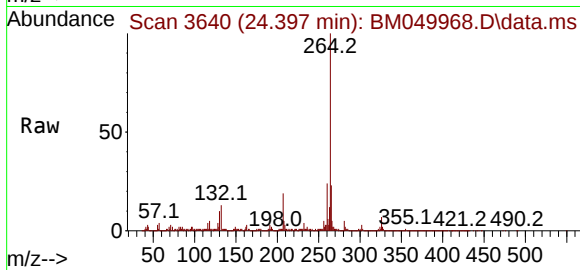
Tgt Ion:264 Resp: 1661753

Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 23.3 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.248 ng

RT: 27.779 min Scan# 4215

Delta R.T. -0.018 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

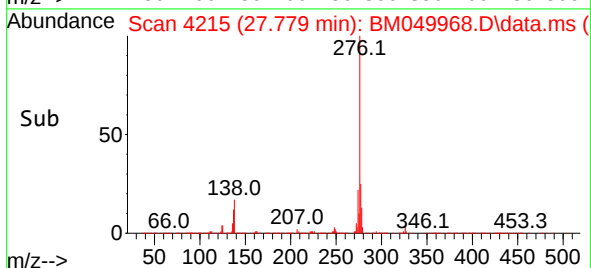
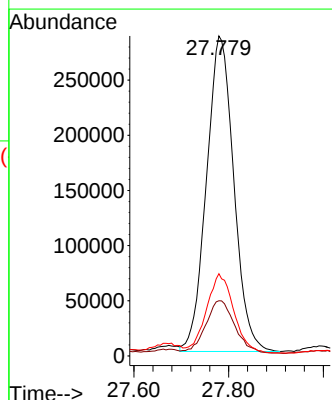
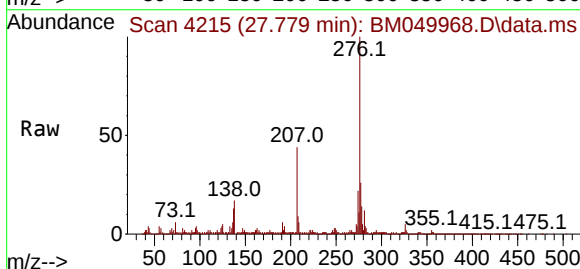
Tgt Ion:276 Resp: 1145542

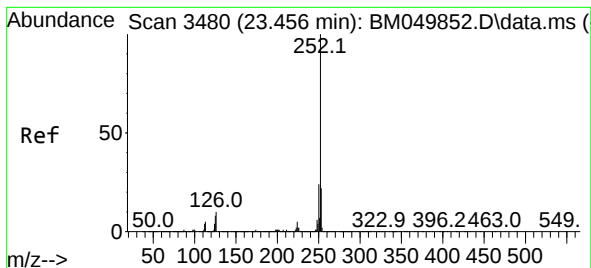
Ion Ratio Lower Upper

276 100

138 18.0 16.8 25.2

277 25.1 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 21.418 ng

RT: 23.450 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

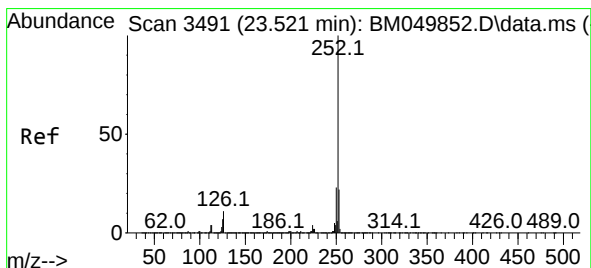
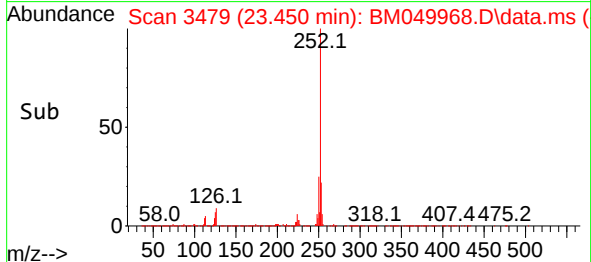
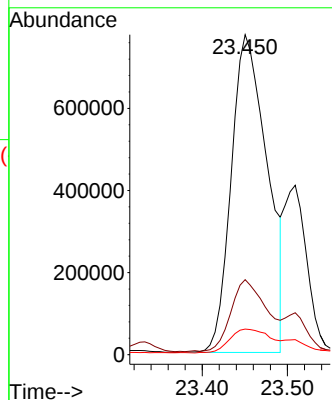
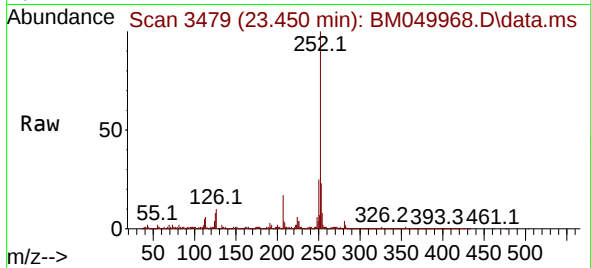
Tgt Ion:252 Resp: 2273046

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

125 8.0 6.2 9.4



#89

Benzo(k)fluoranthene

Concen: 22.101 ng

RT: 23.450 min Scan# 3479

Delta R.T. -0.071 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

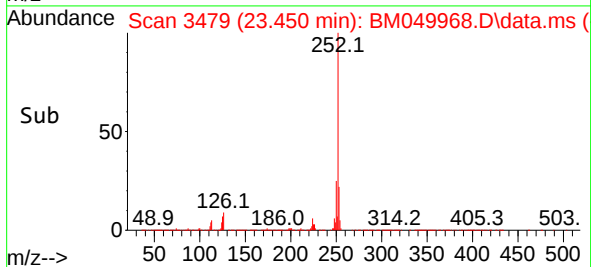
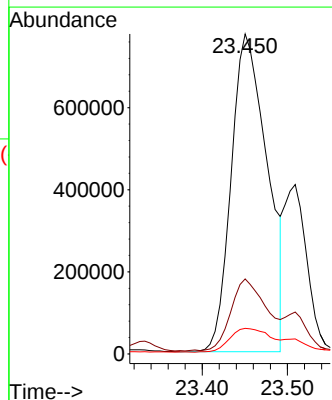
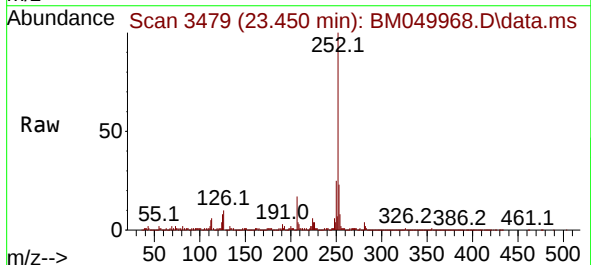
Tgt Ion:252 Resp: 2273046

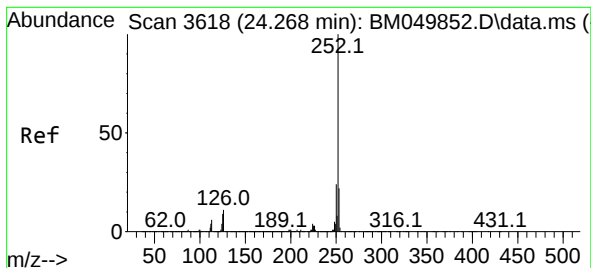
Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.2

125 8.0 5.8 8.8





#90

Benzo(a)pyrene

Concen: 19.411 ng

RT: 24.256 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1

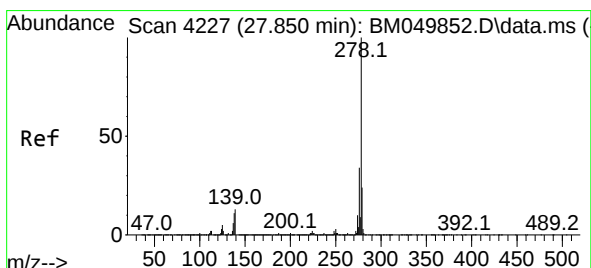
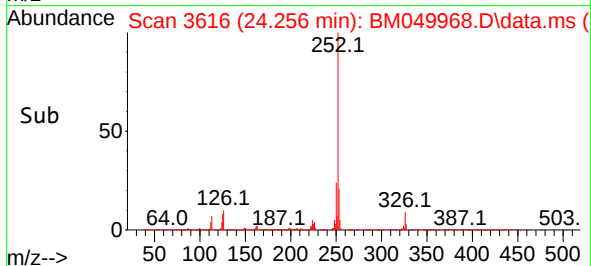
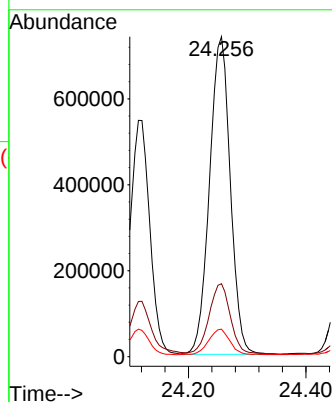
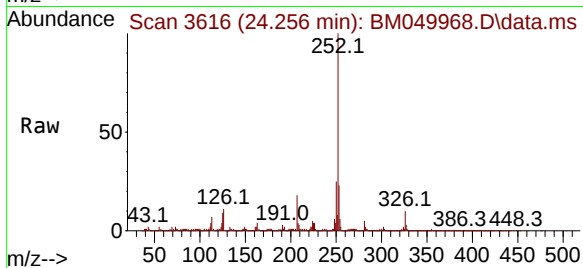
Tgt Ion:252 Resp: 1810307

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 8.6 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 3.233 ng

RT: 27.815 min Scan# 4221

Delta R.T. -0.035 min

Lab File: BM049968.D

Acq: 18 Apr 2025 16:27

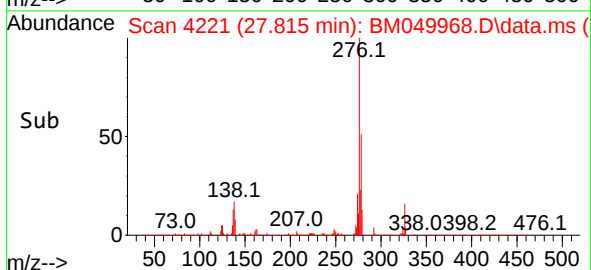
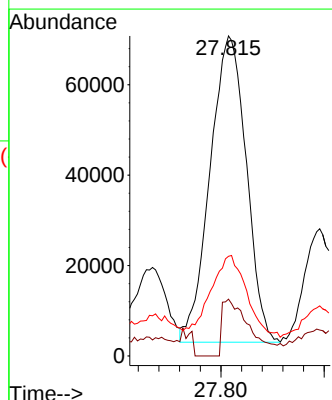
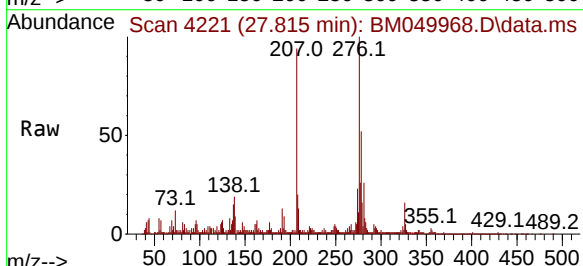
Tgt Ion:278 Resp: 329870

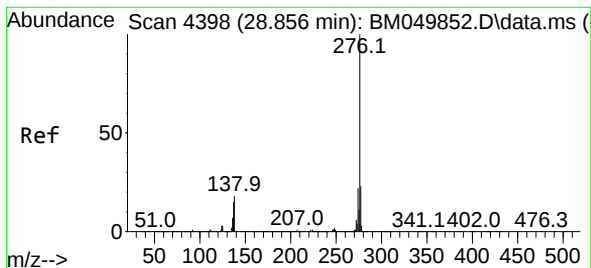
Ion Ratio Lower Upper

278 100

139 17.8 10.6 15.8#

279 31.1 19.1 28.7#





#92

Benzo(g,h,i)perylene

Concen: 11.884 ng

RT: 28.844 min Scan# 41

Delta R.T. -0.012 min

Lab File: BM049968.D

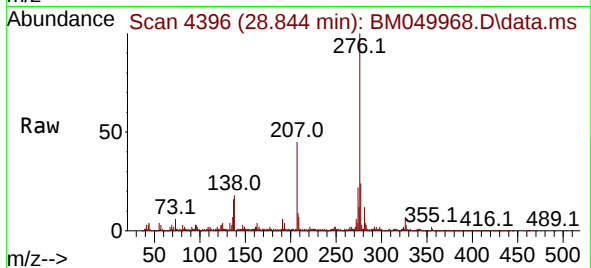
Acq: 18 Apr 2025 16:27

Instrument :

BNA_M

ClientSampleId :

SOIL-1



Tgt Ion:276 Resp: 1239027

Ion Ratio Lower Upper

276 100

277 24.4 18.7 28.1

138 17.9 14.6 21.8

