

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
 Data File : BM049938.D
 Acq On : 15 Apr 2025 17:13
 Operator : RC/JU
 Sample : Q1808-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OILY-SOIL-PILE

Quant Time: Apr 15 17:47:41 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)

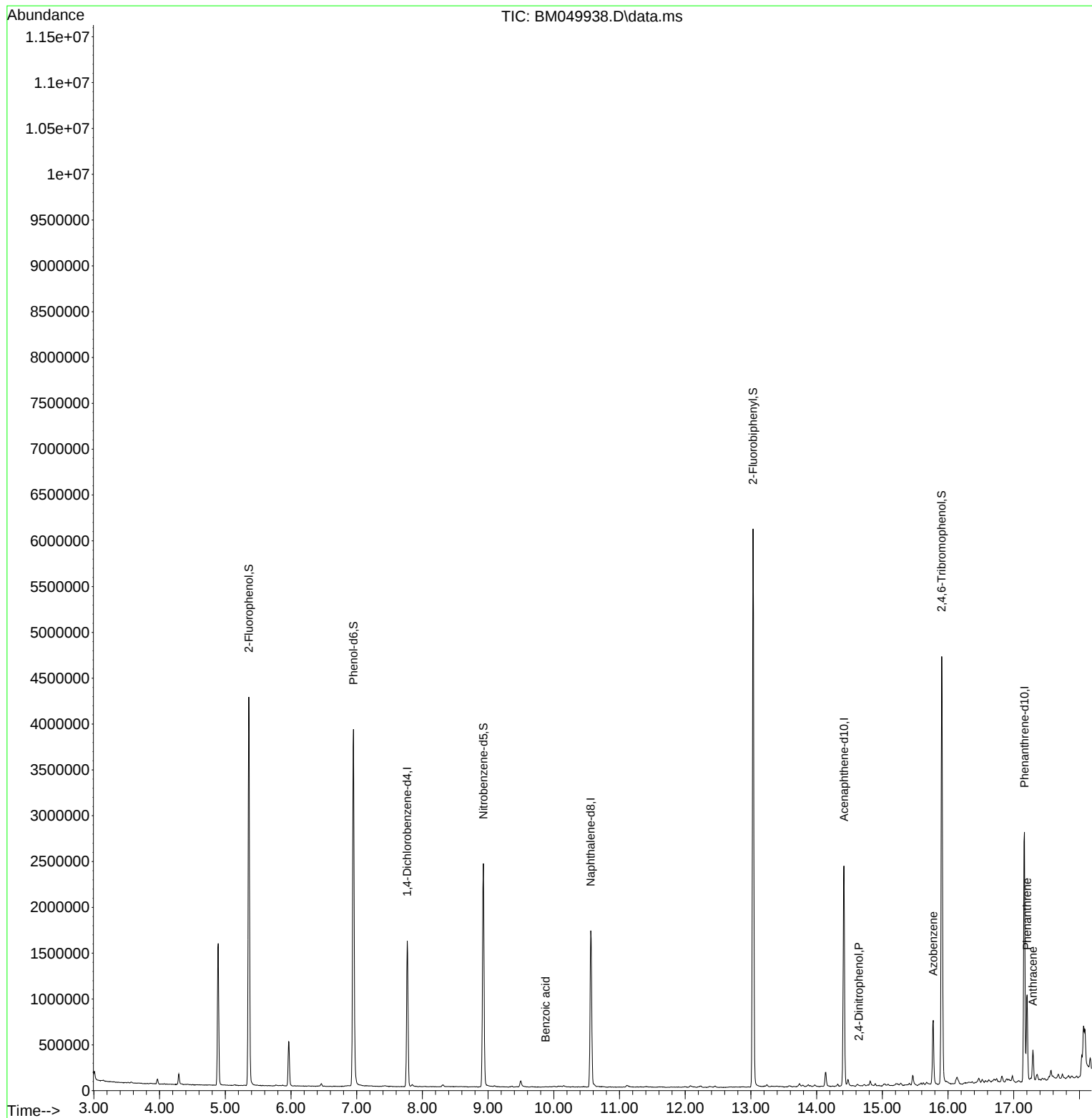
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	465240	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1508650	20.000	ng	-0.01
39) Acenaphthene-d10	14.416	164	895932	20.000	ng	0.00
64) Phenanthrene-d10	17.163	188	1661069	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1632004	20.000	ng	0.00
86) Perylene-d12	24.403	264	1863501	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	1919646	70.065	ng	0.00
7) Phenol-d6	6.951	99	2409769	70.692	ng	0.00
23) Nitrobenzene-d5	8.928	82	1418396	52.354	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	989245	75.911	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	3294065	49.856	ng	-0.01
79) Terphenyl-d14	19.786	244	4257749	48.892	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	9.875	122	1298	8.593	ng	# 60
54) 2,4-Dinitrophenol	14.645	184	56	7.230	ng	# 1
63) Azobenzene	15.774	77	188896	3.640	ng	# 1
71) Phenanthrene	17.204	178	599762	6.586	ng	99
72) Anthracene	17.292	178	214668	2.392	ng	99
75) Fluoranthene	19.221	202	1715339	15.320	ng	100
78) Pyrene	19.580	202	1556296	13.837	ng	99
81) Benzo(a)anthracene	21.380	228	805815	7.429	ng	97
83) Chrysene	21.439	228	777105	7.536	ng	96
87) Indeno(1,2,3-cd)pyrene	27.785	276	422929	3.045	ng	97
88) Benzo(b)fluoranthene	23.456	252	996650	8.374	ng	96
89) Benzo(k)fluoranthene	23.456	252	996650	8.641	ng	# 96
90) Benzo(a)pyrene	24.262	252	659351	6.305	ng	97
92) Benzo(g,h,i)perylene	28.838	276	411736	3.522	ng	98

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

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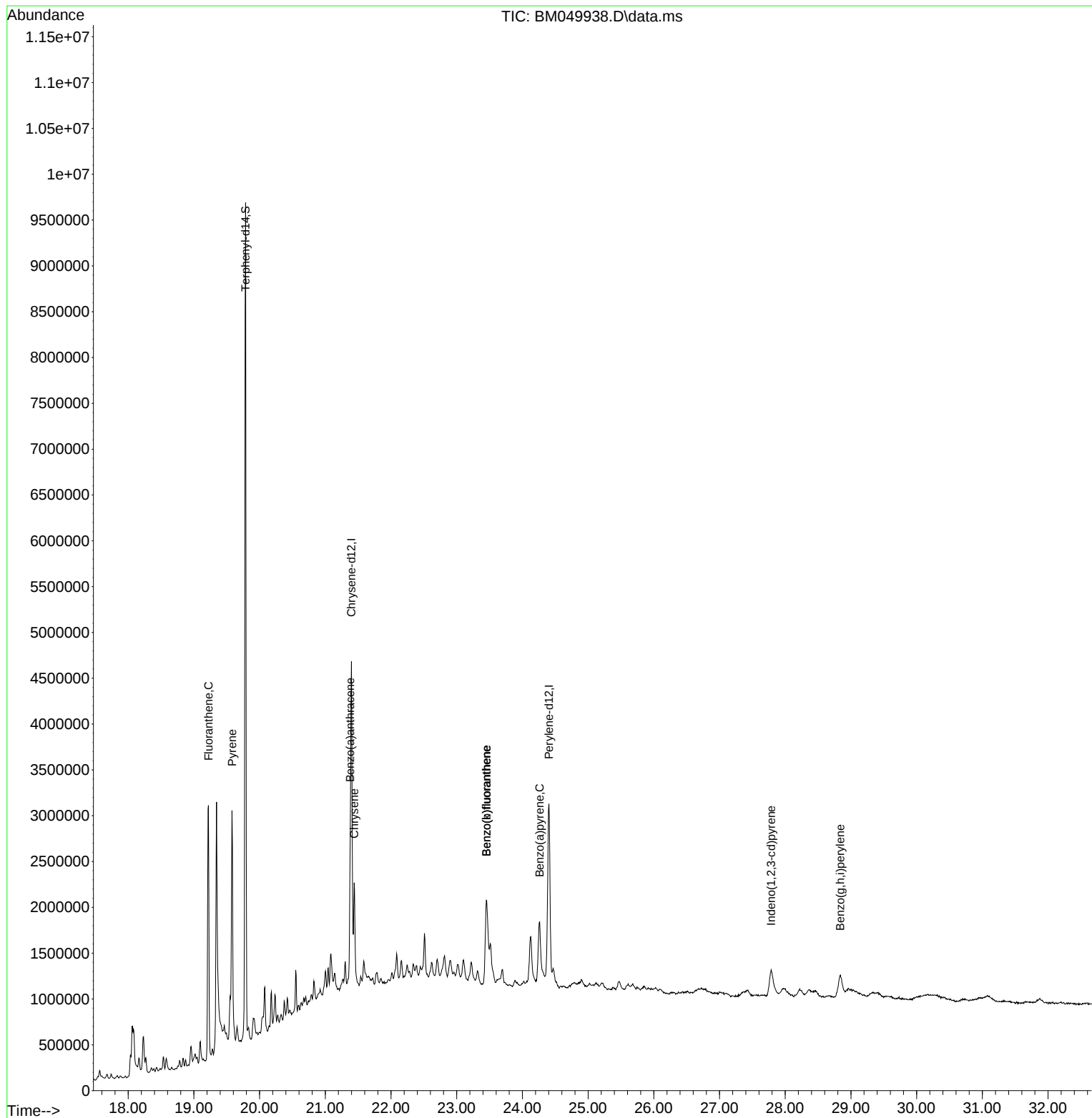
Quant Time: Apr 15 17:47:41 2025
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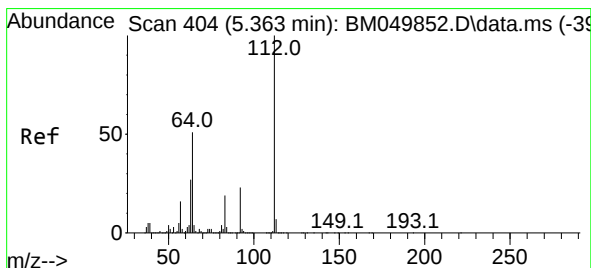
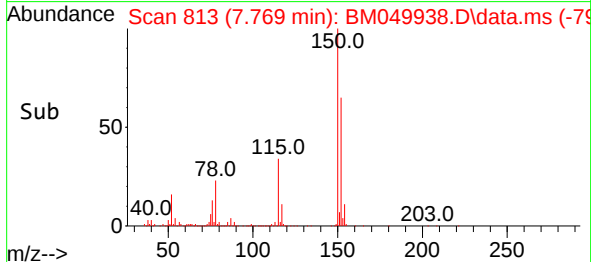
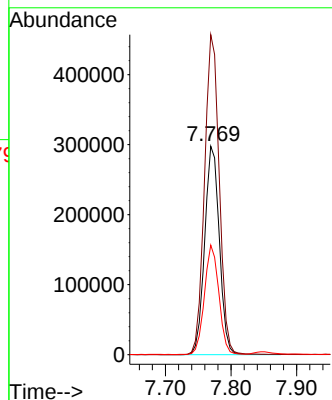
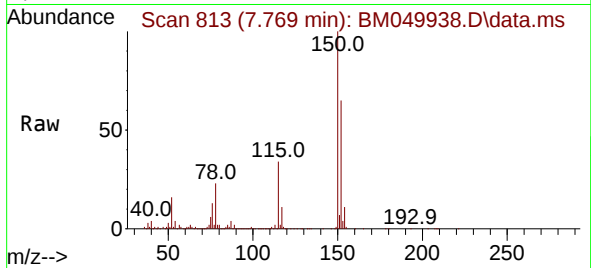




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

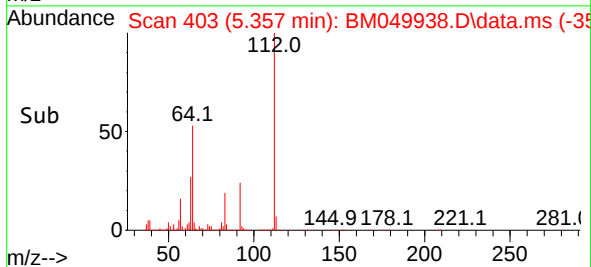
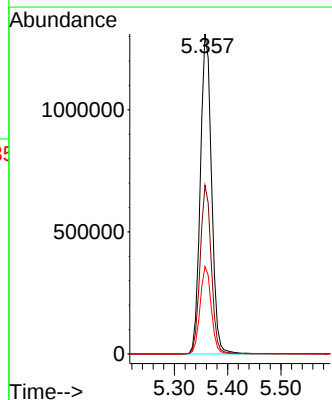
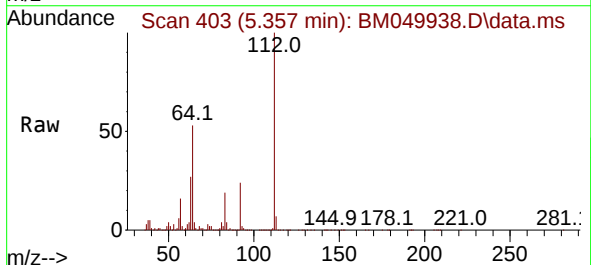
Instrument :
BNA_M
ClientSampleId :
OILY-SOIL-PILE

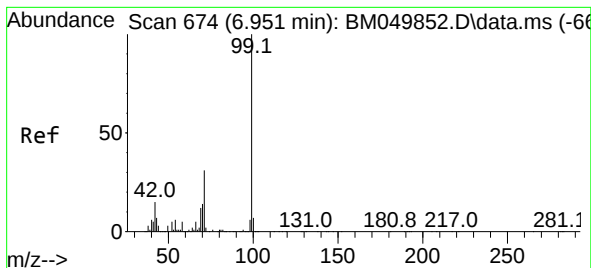
Tgt Ion:152 Resp: 465240
Ion Ratio Lower Upper
152 100
150 153.5 124.3 186.5
115 52.6 41.1 61.7



#5
2-Fluorophenol
Concen: 70.065 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:112 Resp: 1919646
Ion Ratio Lower Upper
112 100
64 52.7 41.0 61.6
63 27.3 21.5 32.3





#7

Phenol-d6

Concen: 70.692 ng

RT: 6.951 min Scan# 61

Delta R.T. 0.000 min

Lab File: BM049938.D

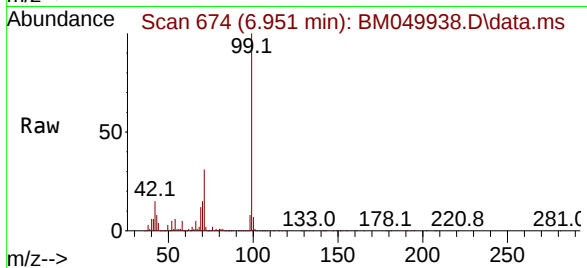
Acq: 15 Apr 2025 17:13

Instrument :

BNA_M

ClientSampleId :

OILY-SOIL-PILE



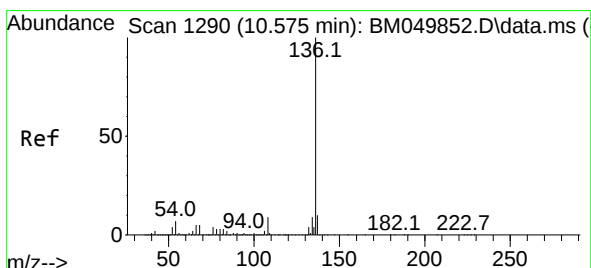
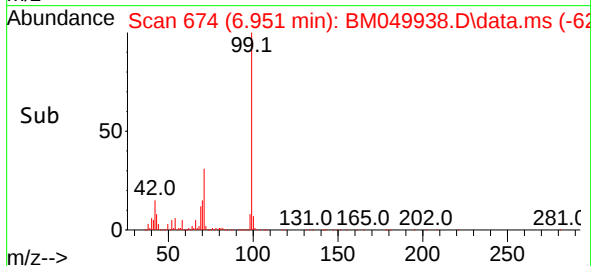
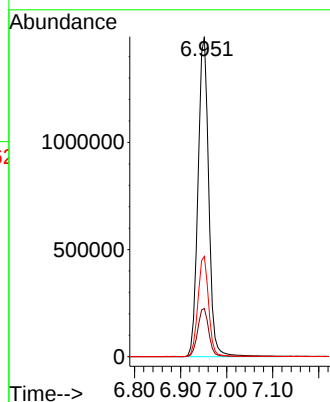
Tgt Ion: 99 Resp: 2409769

Ion Ratio Lower Upper

99 100

42 15.1 12.1 18.1

71 31.4 24.9 37.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.563 min Scan# 1288

Delta R.T. -0.012 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Tgt Ion:136 Resp: 1508650

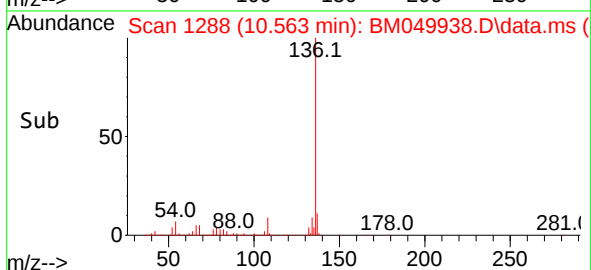
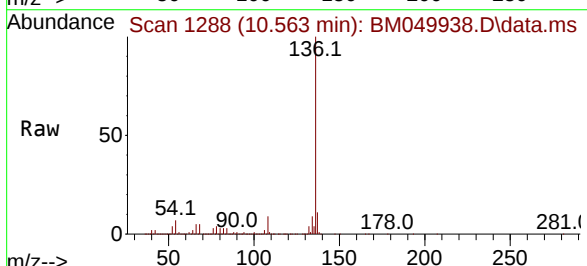
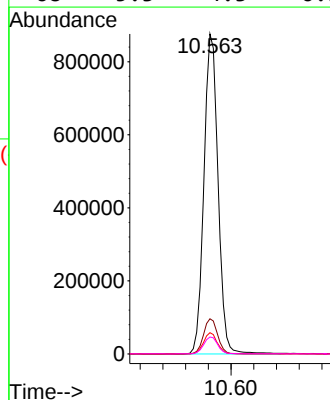
Ion Ratio Lower Upper

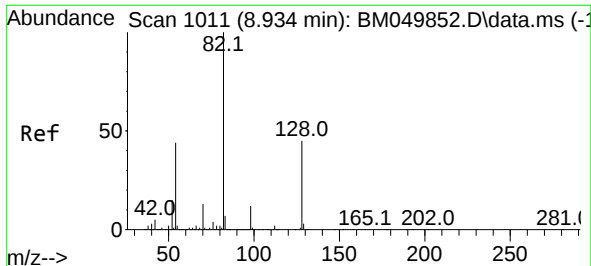
136 100

137 11.0 8.4 12.6

54 6.6 5.3 7.9

68 5.3 4.3 6.5

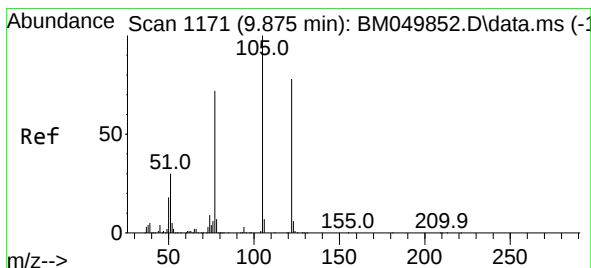
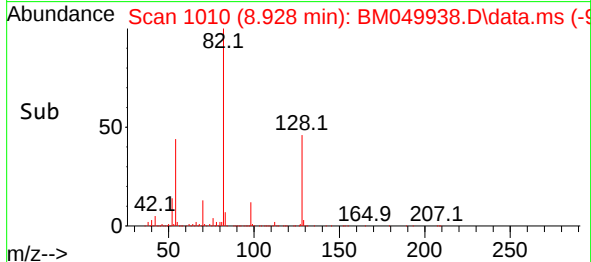
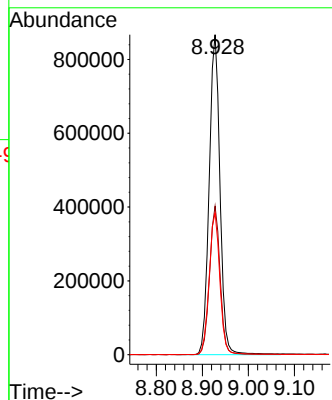
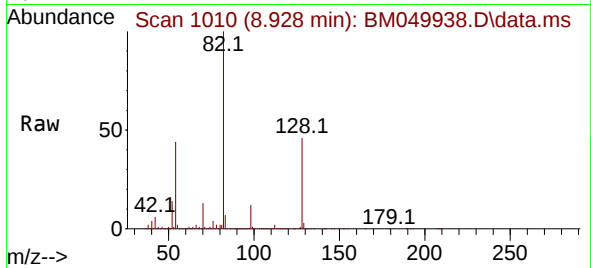




#23
Nitrobenzene-d5
Concen: 52.354 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

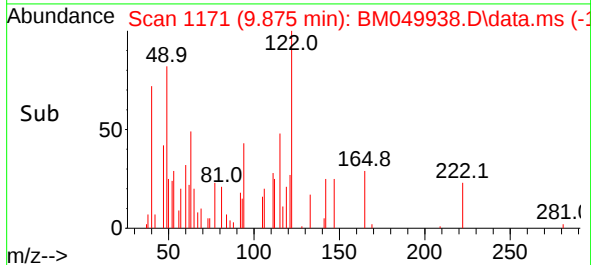
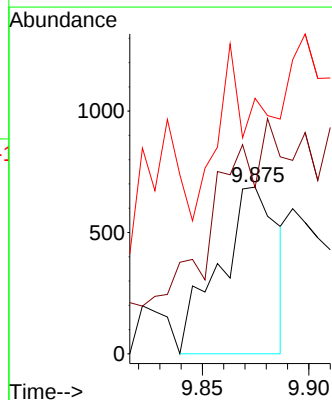
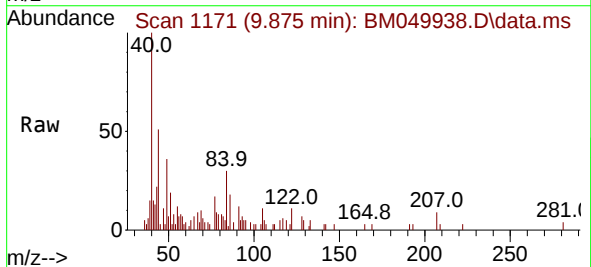
Instrument :
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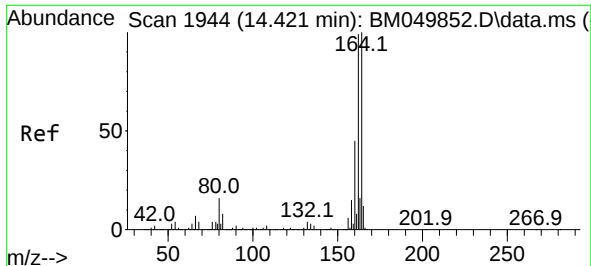
Tgt Ion: 82 Resp: 1418396
Ion Ratio Lower Upper
82 100
128 46.4 36.2 54.2
54 44.3 35.0 52.6



#32
Benzoic acid
Concen: 8.593 ng
RT: 9.875 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:122 Resp: 1298
Ion Ratio Lower Upper
122 100
105 99.7 103.8 143.8#
77 153.3 70.7 110.7#

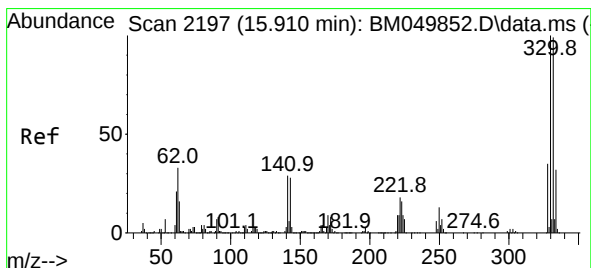
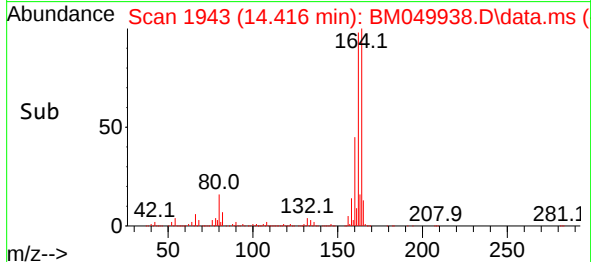
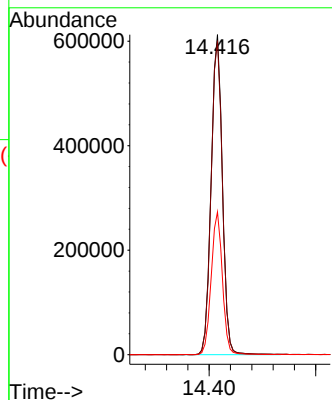
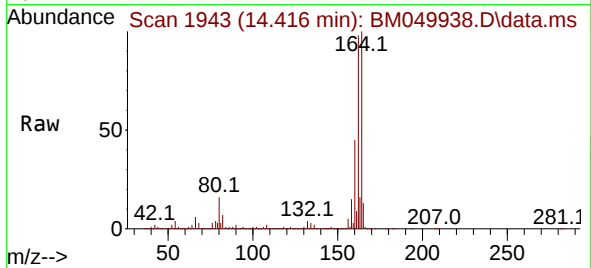




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

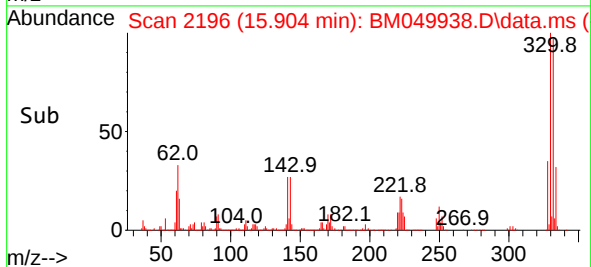
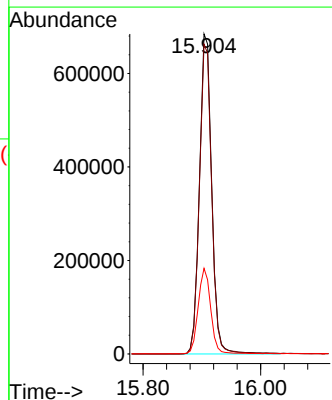
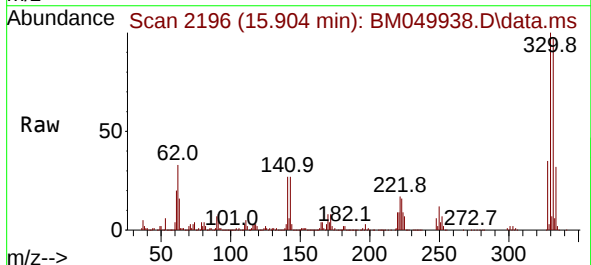
Instrument :
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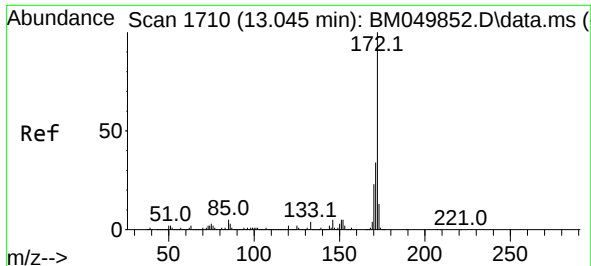
Tgt Ion:164 Resp: 895932
Ion Ratio Lower Upper
164 100
162 98.1 79.4 119.0
160 44.6 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 75.911 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:330 Resp: 989245
Ion Ratio Lower Upper
330 100
332 97.3 78.0 117.0
141 27.3 23.5 35.3

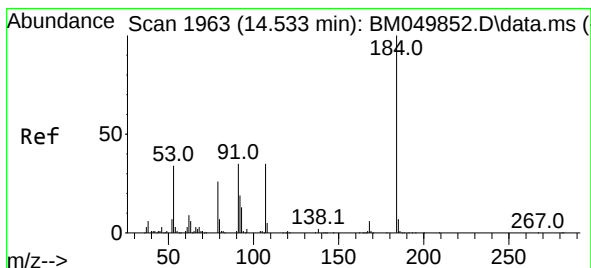
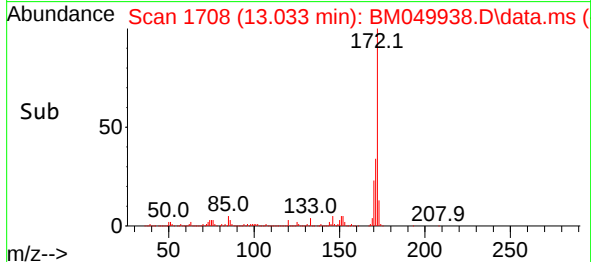
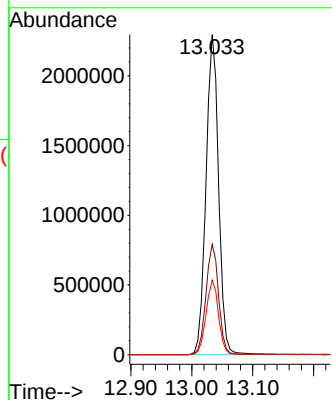
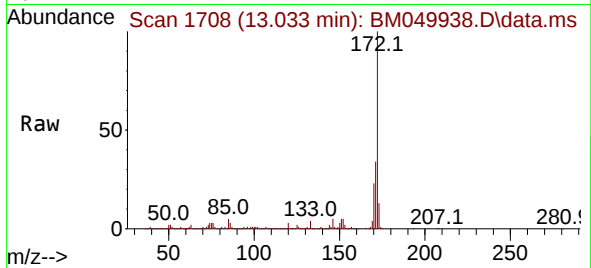




#45
2-Fluorobiphenyl
Concen: 49.856 ng
RT: 13.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

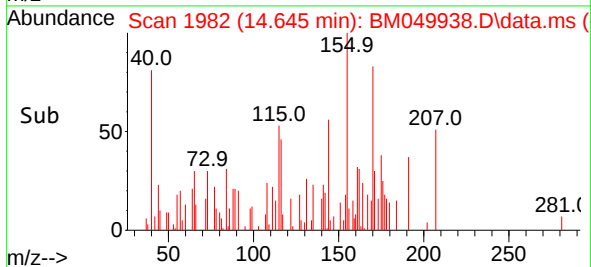
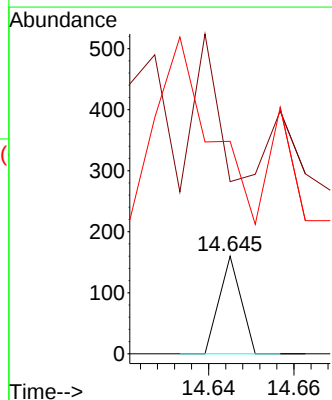
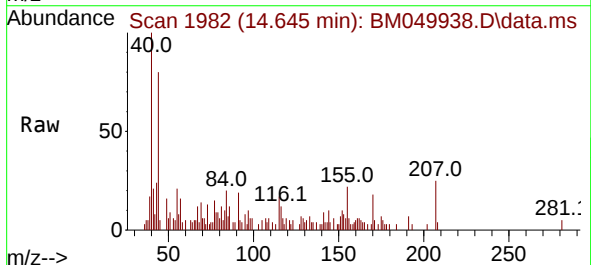
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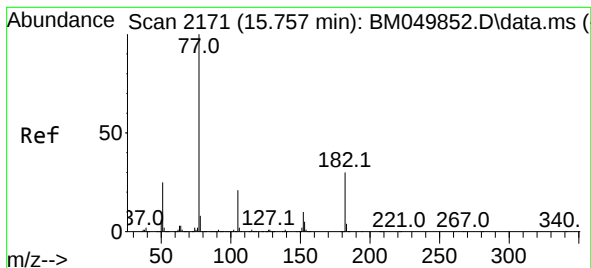
Tgt Ion:172 Resp: 3294065
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.2
170 23.3 18.6 28.0



#54
2,4-Dinitrophenol
Concen: 7.230 ng
RT: 14.645 min Scan# 1982
Delta R.T. 0.112 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:184 Resp: 56
Ion Ratio Lower Upper
184 100
63 176.2 38.4 57.6#
154 217.5 48.1 72.1#





#63

Azobenzene

Concen: 3.640 ng

RT: 15.774 min Scan# 2174

Delta R.T. 0.018 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Instrument :

BNA_M

ClientSampleId :

OILY-SOIL-PILE

Tgt Ion: 77 Resp: 188896

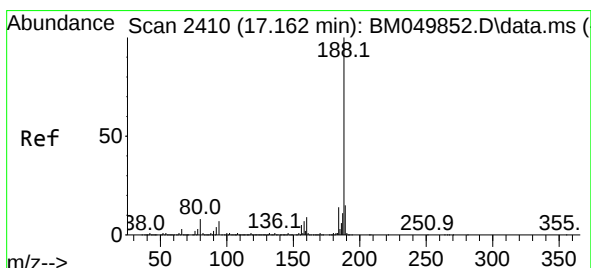
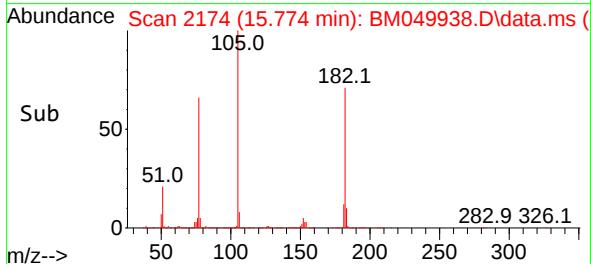
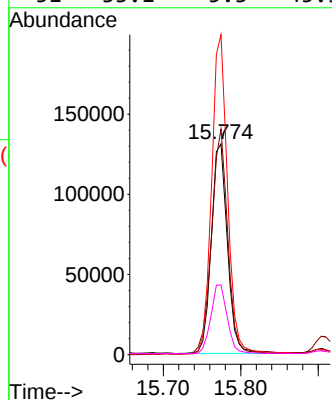
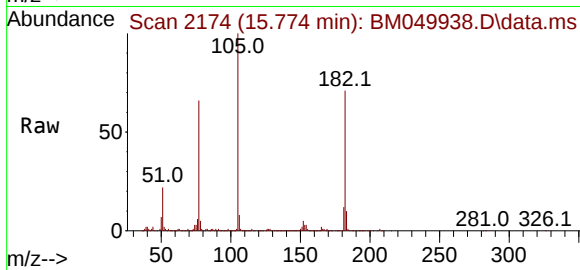
Ion Ratio Lower Upper

77 100

182 107.1 10.4 50.4#

105 151.7 1.5 41.5#

51 33.1 5.3 45.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.163 min Scan# 2410

Delta R.T. 0.000 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

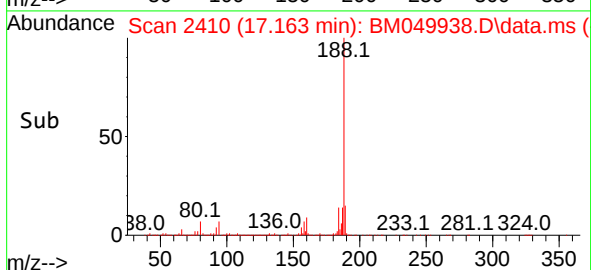
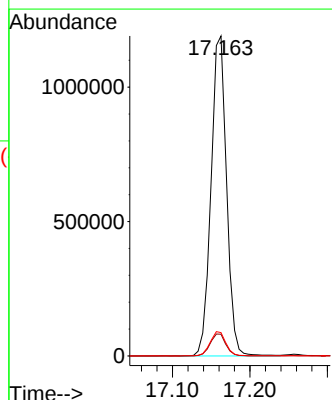
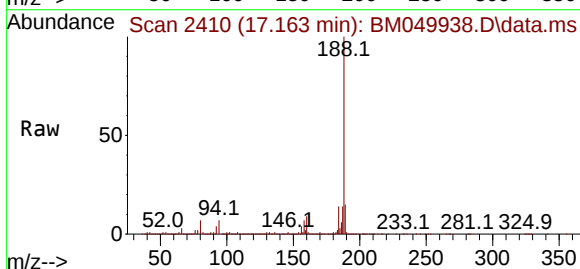
Tgt Ion:188 Resp: 1661069

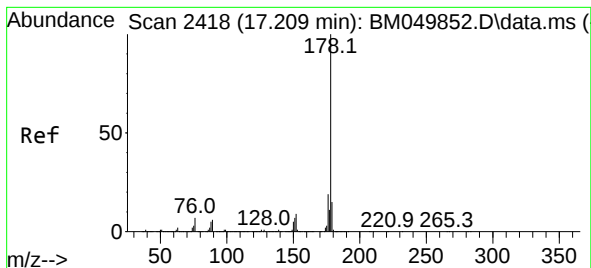
Ion Ratio Lower Upper

188 100

94 6.8 5.8 8.6

80 7.3 6.4 9.6





#71

Phenanthrene

Concen: 6.586 ng

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

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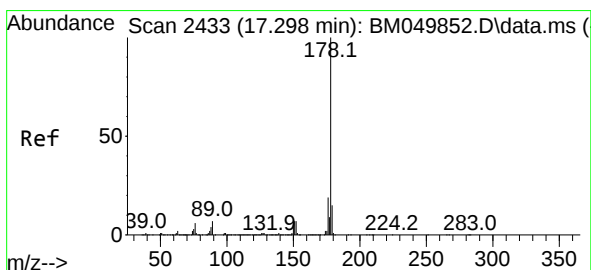
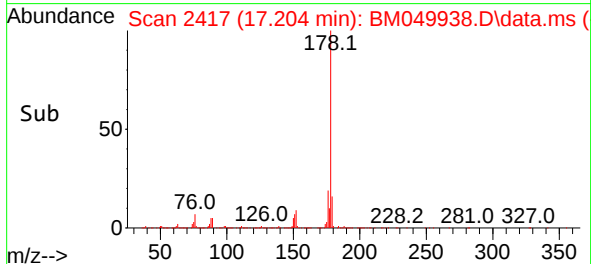
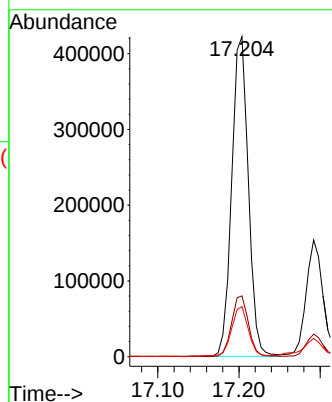
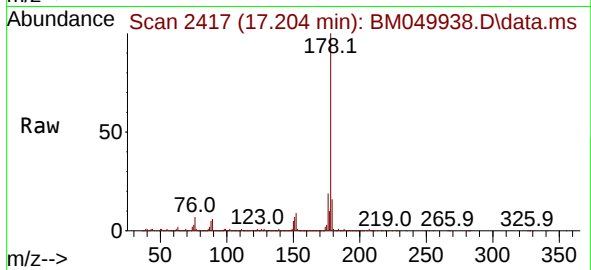
Tgt Ion:178 Resp: 599762

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.7 12.3 18.5



#72

Anthracene

Concen: 2.392 ng

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

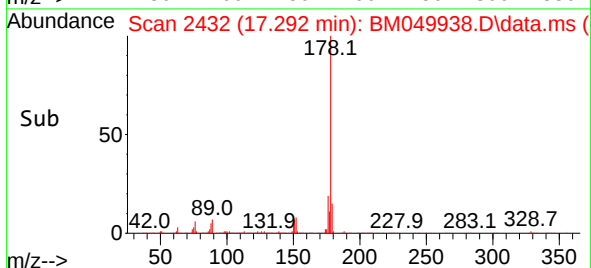
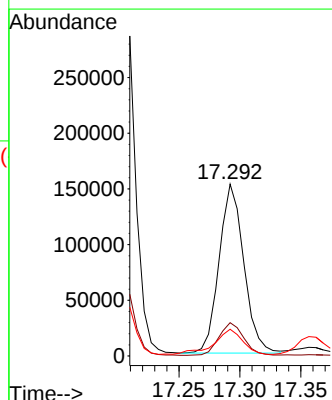
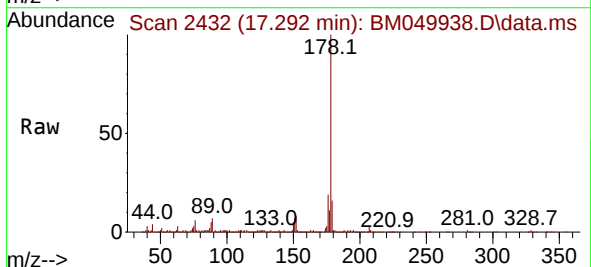
Tgt Ion:178 Resp: 214668

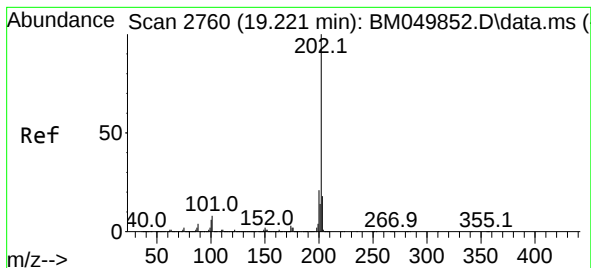
Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

179 15.6 12.4 18.6





#75

Fluoranthene

Concen: 15.320 ng

RT: 19.221 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Instrument :

BNA_M

ClientSampleId :

OILY-SOIL-PILE

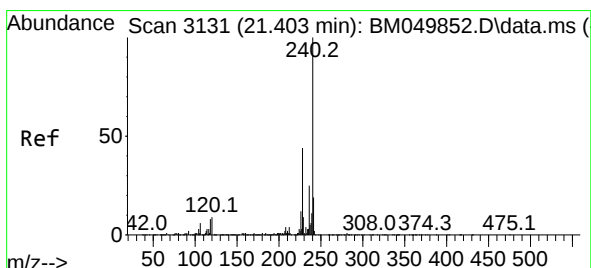
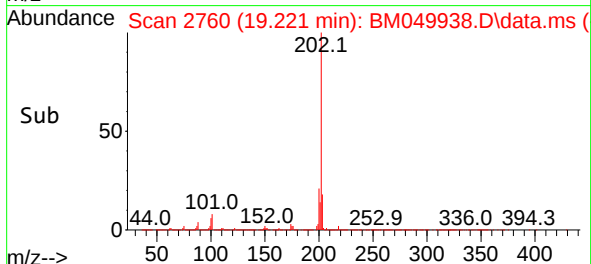
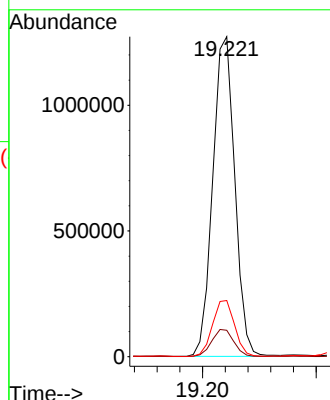
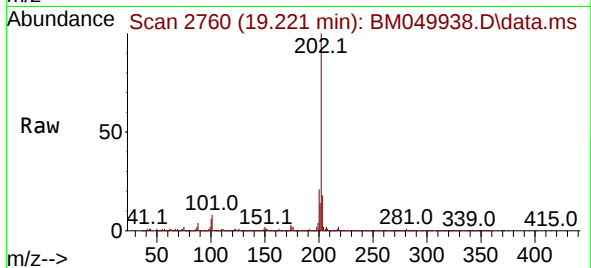
Tgt Ion:202 Resp: 1715339

Ion Ratio Lower Upper

202 100

101 8.2 0.0 28.4

203 17.6 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.398 min Scan# 3130

Delta R.T. -0.006 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

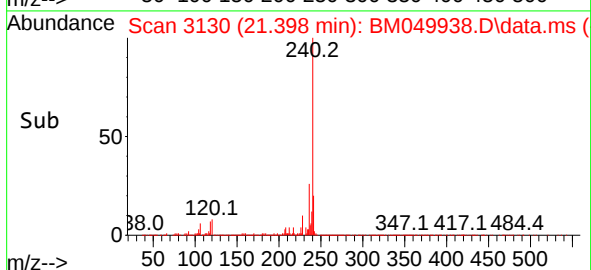
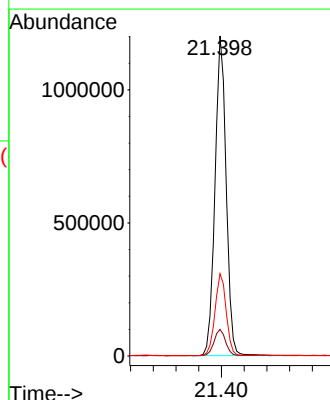
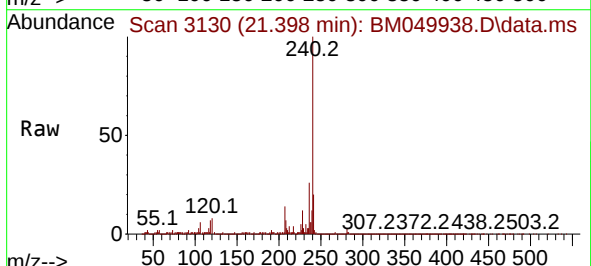
Tgt Ion:240 Resp: 1632004

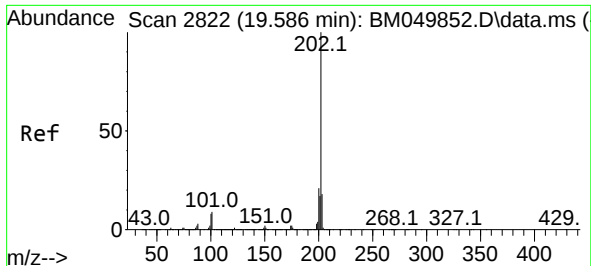
Ion Ratio Lower Upper

240 100

120 8.3 6.9 10.3

236 25.7 20.4 30.6

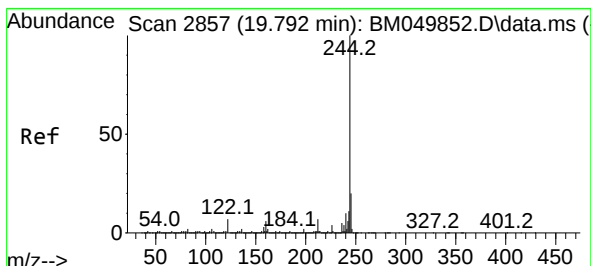
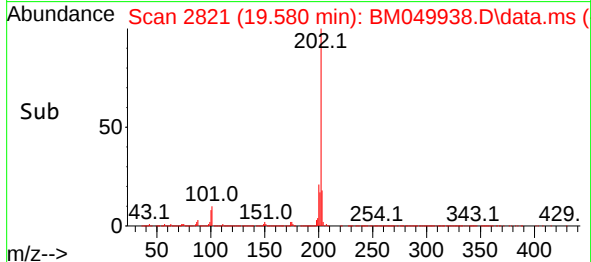
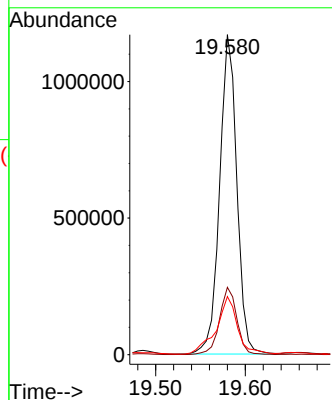
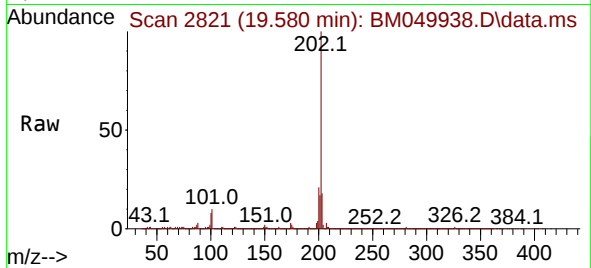




#78
 Pyrene
 Concen: 13.837 ng
 RT: 19.580 min Scan# 2822
 Delta R.T. -0.006 min
 Lab File: BM049938.D
 Acq: 15 Apr 2025 17:13

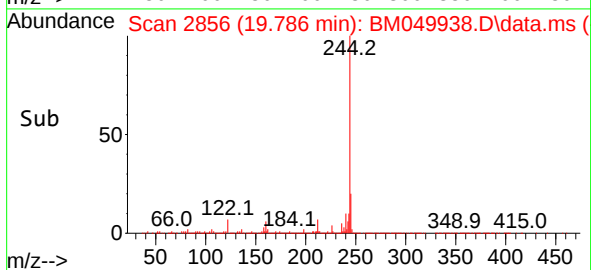
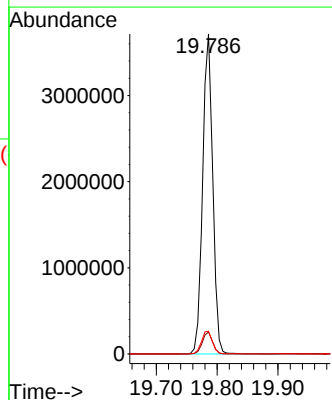
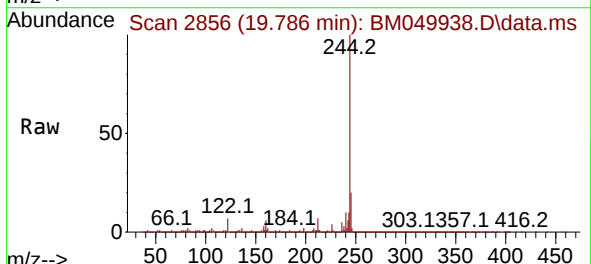
Instrument :
 BNA_M
 ClientSampleId :
 OILY-SOIL-PILE

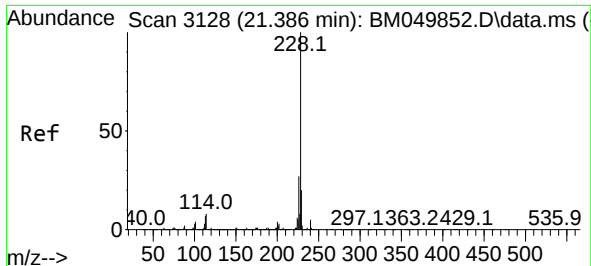
Tgt Ion:202 Resp: 1556296
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.5 24.7
 203 18.1 14.0 21.0



#79
 Terphenyl-d14
 Concen: 48.892 ng
 RT: 19.786 min Scan# 2856
 Delta R.T. -0.006 min
 Lab File: BM049938.D
 Acq: 15 Apr 2025 17:13

Tgt Ion:244 Resp: 4257749
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.5 8.3
 122 7.1 5.4 8.0

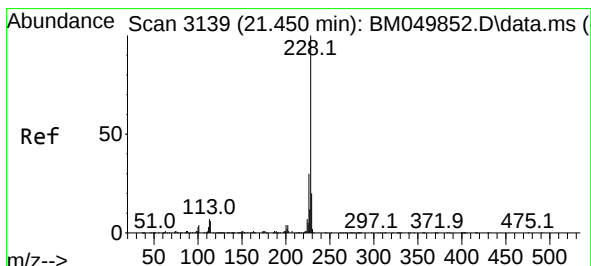
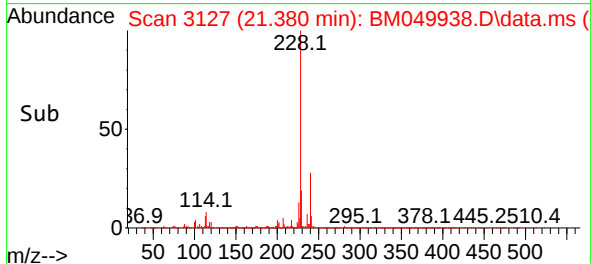
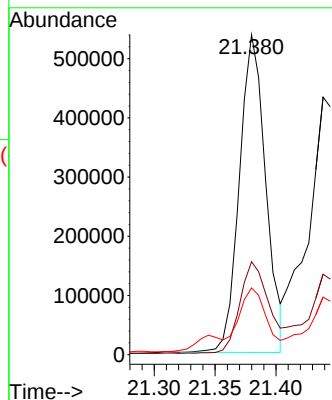
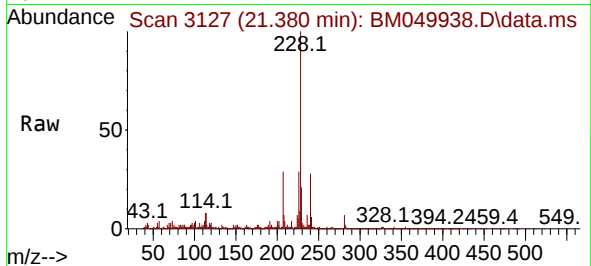




#81
Benzo(a)anthracene
Concen: 7.429 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

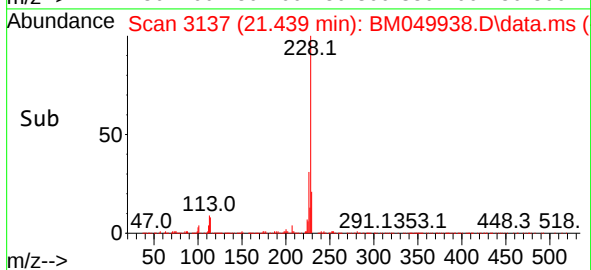
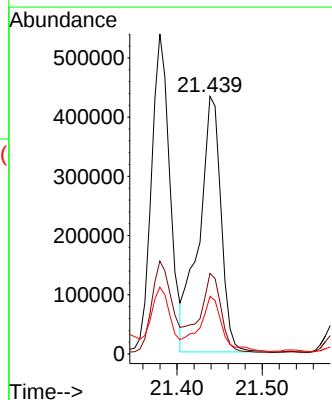
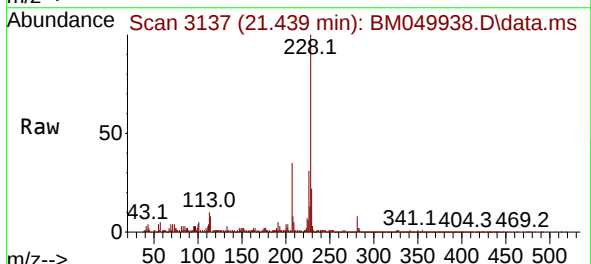
Instrument :
BNA_M
ClientSampleId :
OILY-SOIL-PILE

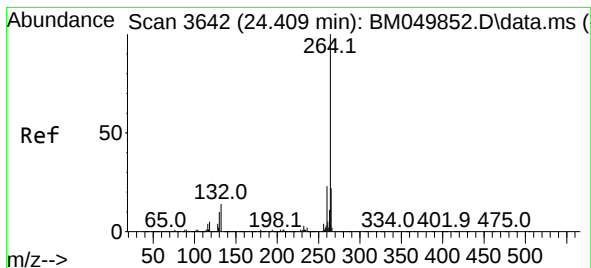
Tgt Ion:228 Resp: 805815
Ion Ratio Lower Upper
228 100
226 29.1 21.8 32.8
229 20.9 15.8 23.8



#83
Chrysene
Concen: 7.536 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:228 Resp: 777105
Ion Ratio Lower Upper
228 100
226 31.2 24.1 36.1
229 22.3 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Instrument :

BNA_M

ClientSampleId :

OILY-SOIL-PILE

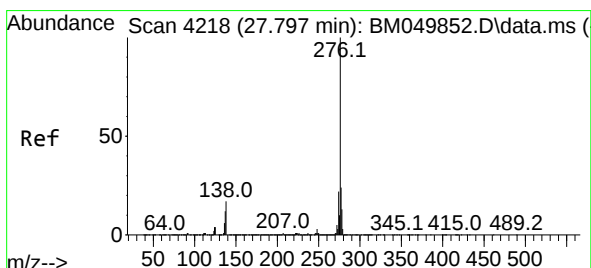
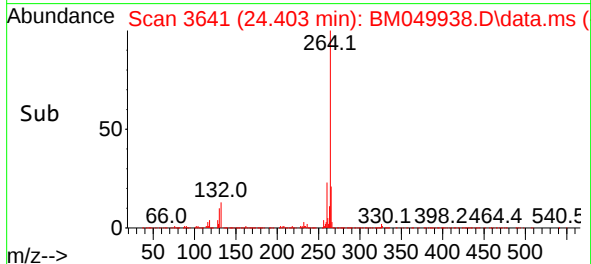
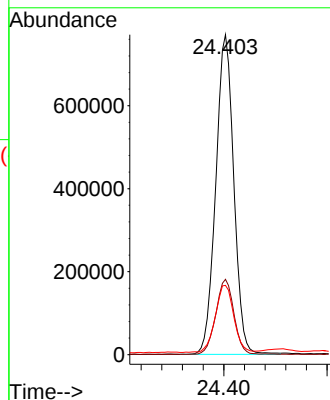
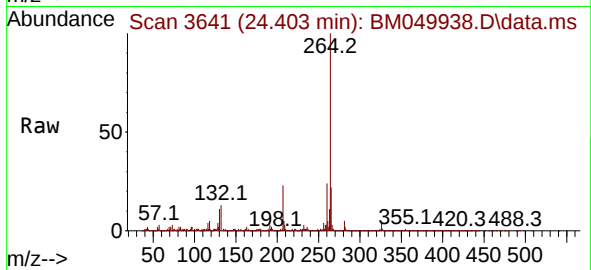
Tgt Ion:264 Resp: 1863501

Ion Ratio Lower Upper

264 100

260 23.5 18.6 28.0

265 21.7 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.045 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.012 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

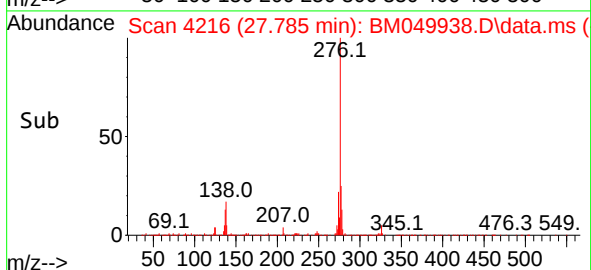
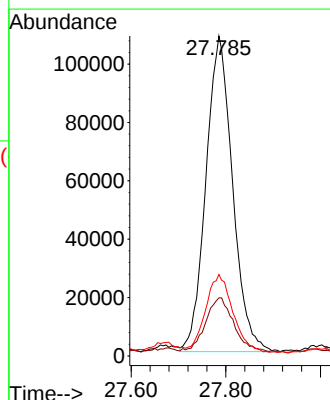
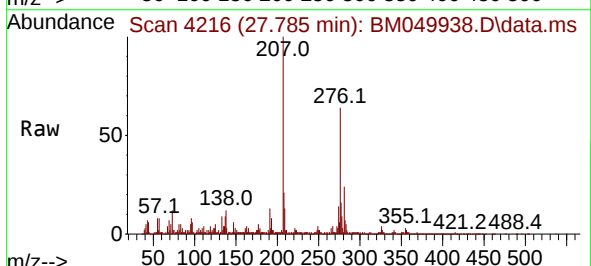
Tgt Ion:276 Resp: 422929

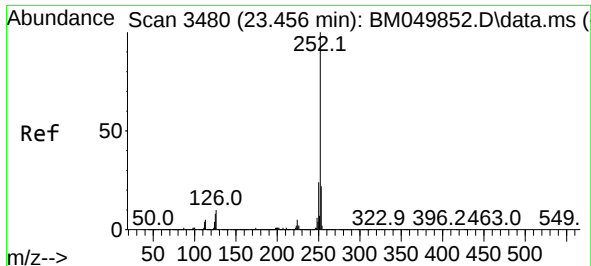
Ion Ratio Lower Upper

276 100

138 18.7 16.8 25.2

277 24.9 20.1 30.1

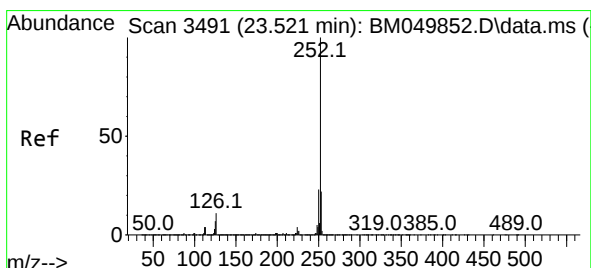
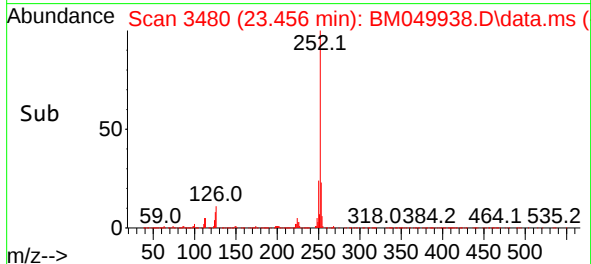
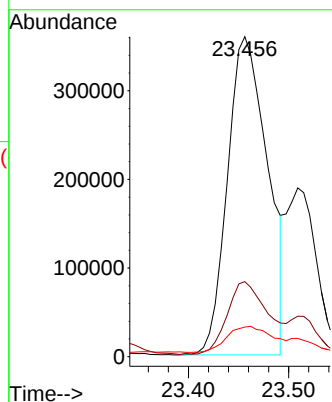
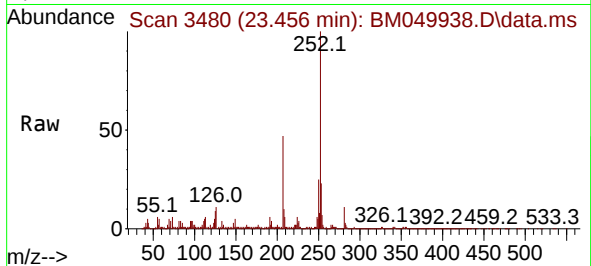




#88
Benzo(b)fluoranthene
Concen: 8.374 ng
RT: 23.456 min Scan# 3480
Delta R.T. 0.000 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

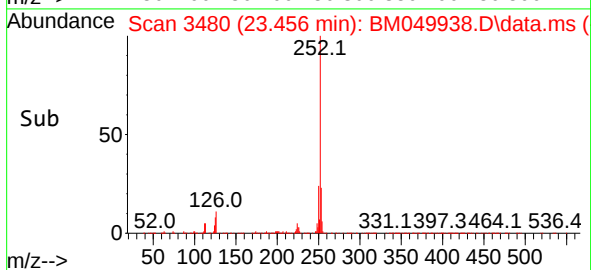
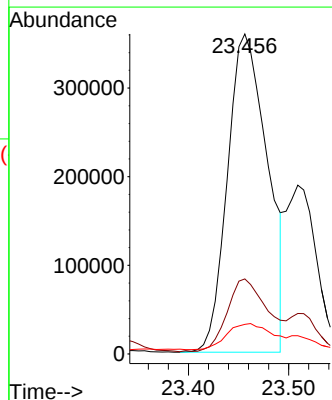
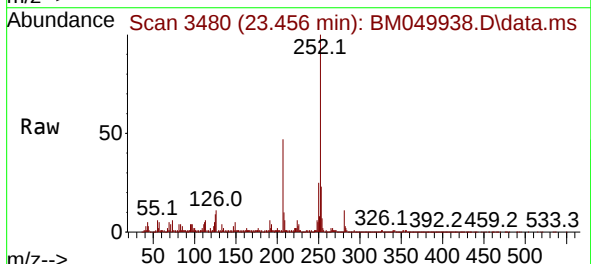
Instrument :
BNA_M
ClientSampleId :
OILY-SOIL-PILE

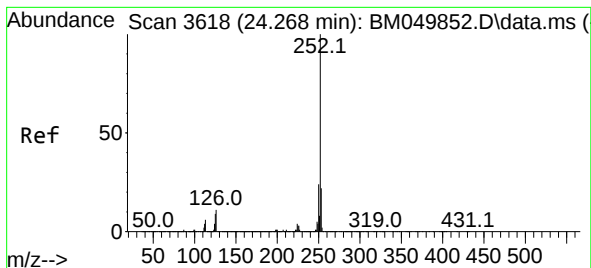
Tgt Ion:252 Resp: 996650
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 9.2 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 8.641 ng
RT: 23.456 min Scan# 3480
Delta R.T. -0.065 min
Lab File: BM049938.D
Acq: 15 Apr 2025 17:13

Tgt Ion:252 Resp: 996650
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.2
125 9.2 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 6.305 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Instrument :

BNA_M

ClientSampleId :

OILY-SOIL-PILE

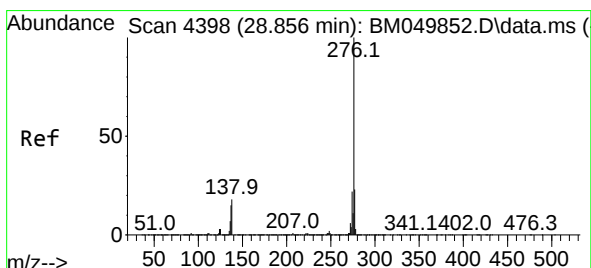
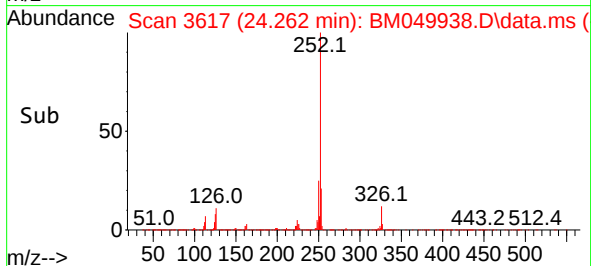
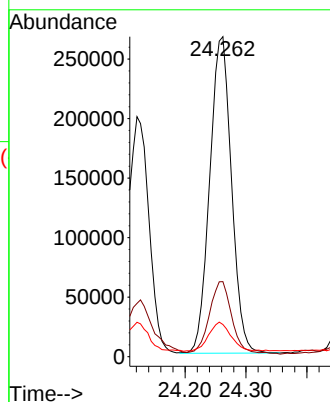
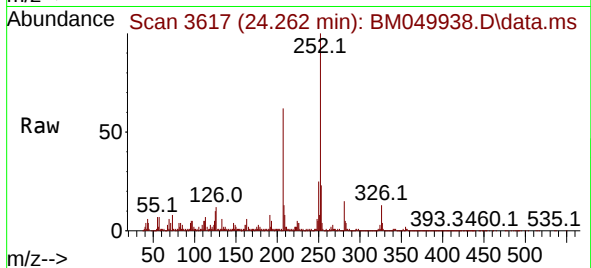
Tgt Ion:252 Resp: 659351

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 10.1 7.0 10.4



#92

Benzo(g,h,i)perylene

Concen: 3.522 ng

RT: 28.838 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM049938.D

Acq: 15 Apr 2025 17:13

Tgt Ion:276 Resp: 411736

Ion Ratio Lower Upper

276 100

277 23.8 18.7 28.1

138 19.7 14.6 21.8

