

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082824\
 Data File : BM047382.D
 Acq On : 28 Aug 2024 15:44
 Operator : RC/JU
 Sample : P3726-01DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MOO-SOIL-PILEDL

Quant Time: Aug 28 16:23:32 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM082624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 26 18:11:40 2024
 Response via : Initial Calibration

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

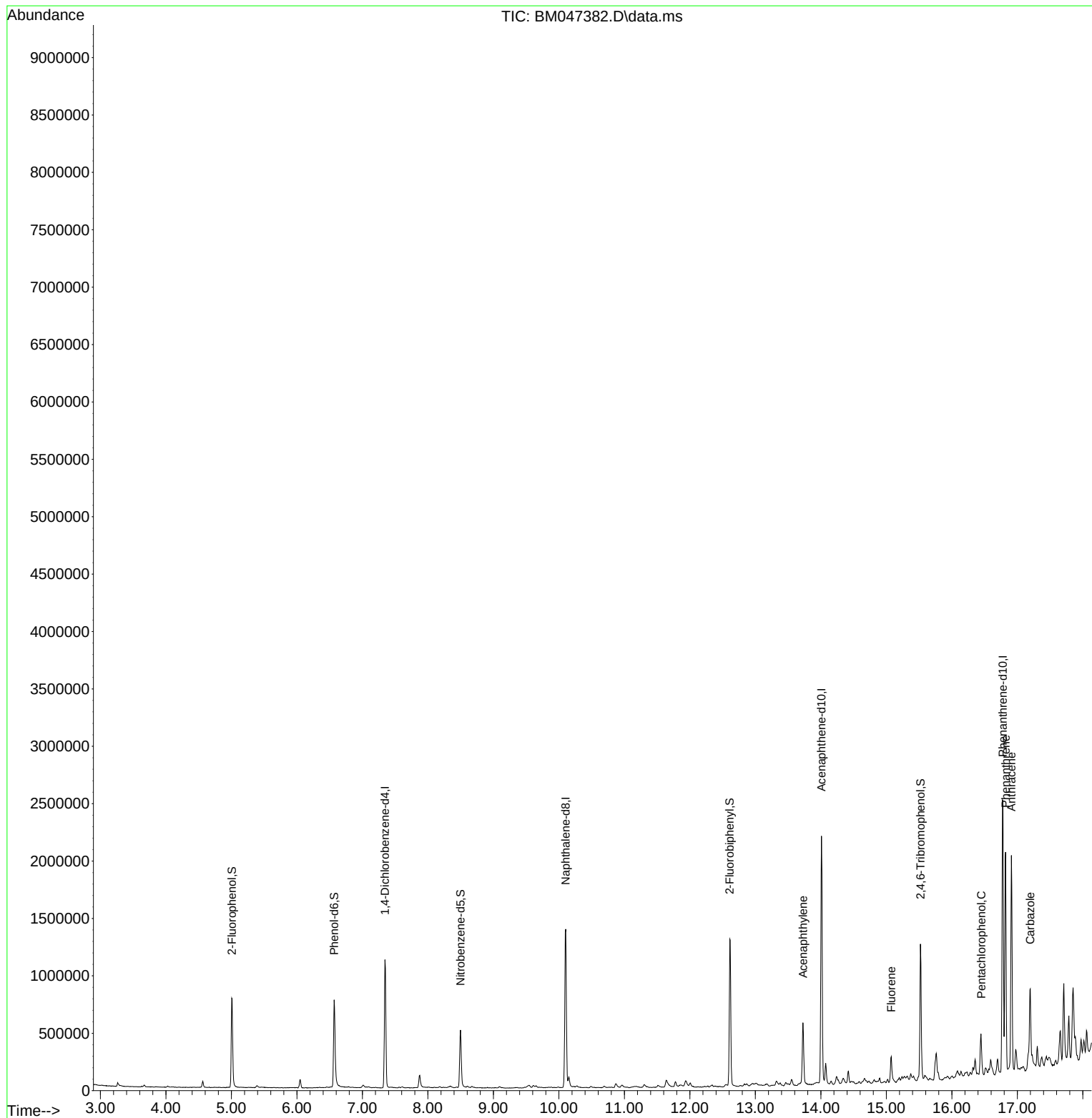
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.345	152	318938	20.000	ng	0.00
21) Naphthalene-d8	10.104	136	1199484	20.000	ng	0.00
39) Acenaphthene-d10	14.010	164	788191	20.000	ng	0.00
64) Phenanthrene-d10	16.780	188	1502953	20.000	ng	0.00
76) Chrysene-d12	21.027	240	941205	20.000	ng	0.00
86) Perylene-d12	23.727	264	1089694	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	369213	22.210	ng	0.00
7) Phenol-d6	6.569	99	495249	21.869	ng	0.00
23) Nitrobenzene-d5	8.498	82	318037	14.712	ng	0.00
42) 2,4,6-Tribromophenol	15.521	330	207818	21.854	ng	0.00
45) 2-Fluorobiphenyl	12.610	172	745586	14.534	ng	0.00
79) Terphenyl-d14	19.445	244	811990	15.356	ng	0.00
Target Compounds						
					Qvalue	
9) Benzaldehyde	6.528	77	2346	Below Cal	#	72
49) Acenaphthylene	13.727	152	436591	6.965	ng	99
58) Fluorene	15.074	166	112246	2.164	ng	99
70) Pentachlorophenol	16.451	266	41531	3.508	ng	95
71) Phenanthrene	16.821	178	1177728	16.135	ng	100
72) Anthracene	16.909	178	1183931	16.639	ng	100
73) Carbazole	17.198	167	459072	6.723	ng	100
75) Fluoranthene	18.862	202	4099849	47.837	ng	99
78) Pyrene	19.227	202	4633649	64.189	ng	100
81) Benzo(a)anthracene	21.009	228	1704254	27.766	ng	94
83) Chrysene	21.062	228	2514440	43.550	ng	98
87) Indeno(1,2,3-cd)pyrene	26.732	276	1074962	15.759	ng	96
88) Benzo(b)fluoranthene	22.891	252	3446806	54.216	ng	99
89) Benzo(k)fluoranthene	22.891	252	3446806	57.192	ng	98
90) Benzo(a)pyrene	23.603	252	1318869	23.989	ng	97
91) Dibenzo(a,h)anthracene	26.762	278	291422	5.273	ng	# 90
92) Benzo(g,h,i)perylene	27.662	276	922944	16.065	ng	98

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

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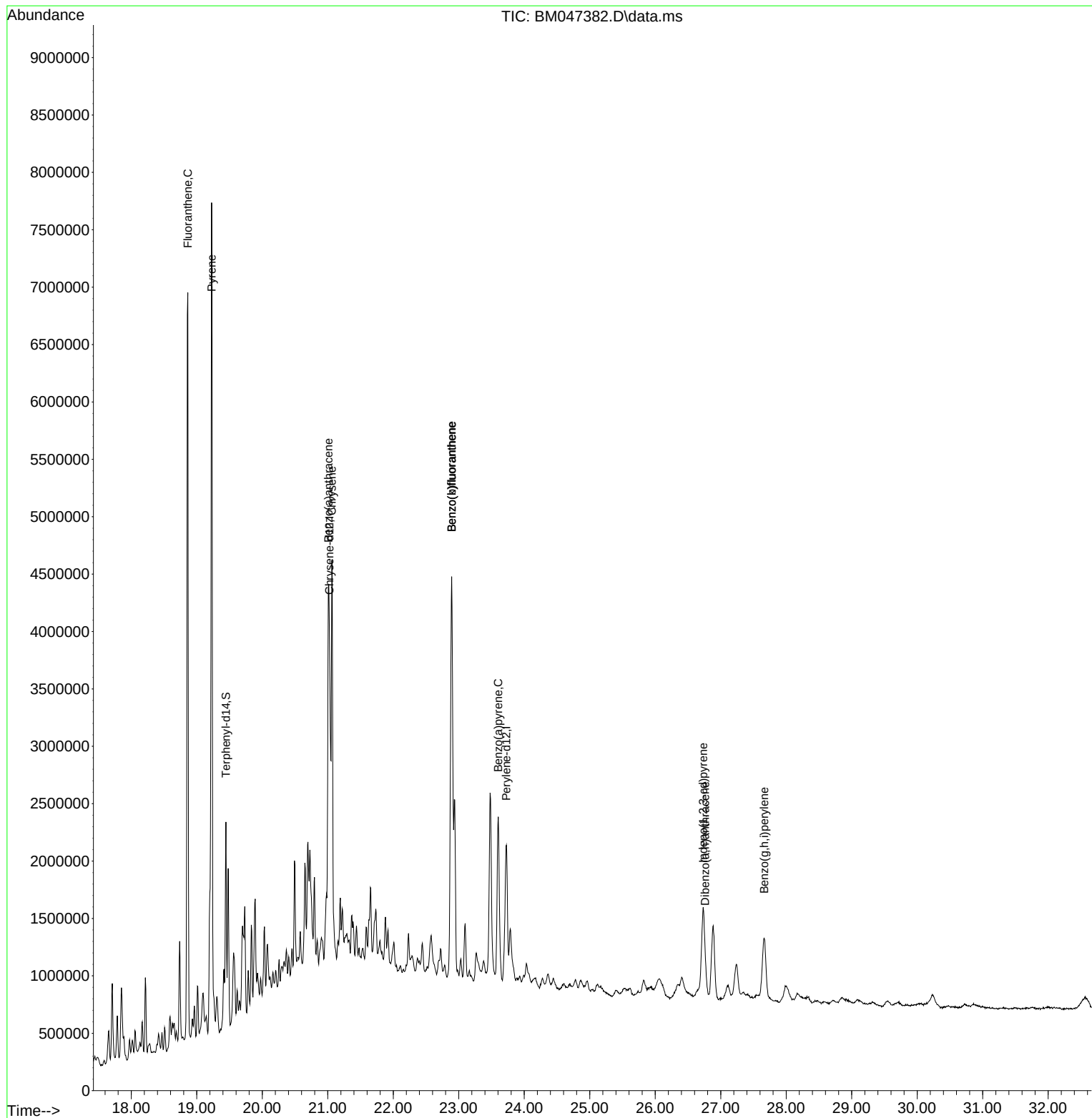
Quant Time: Aug 28 16:23:32 2024
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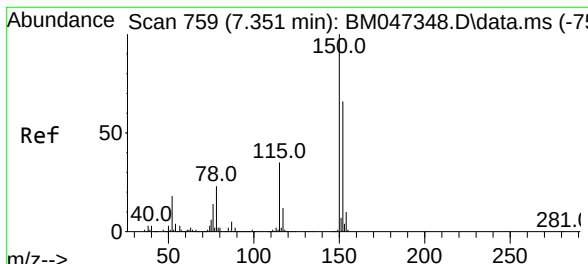


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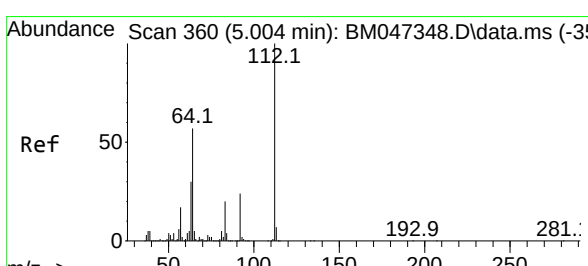
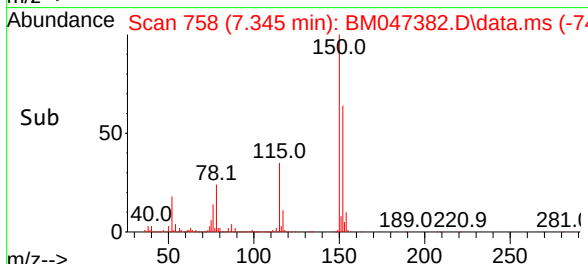
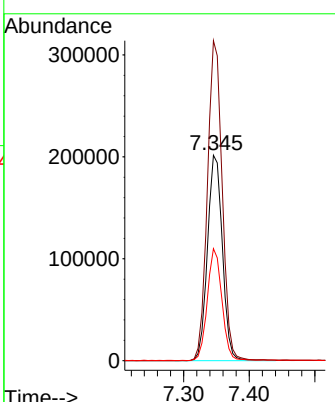
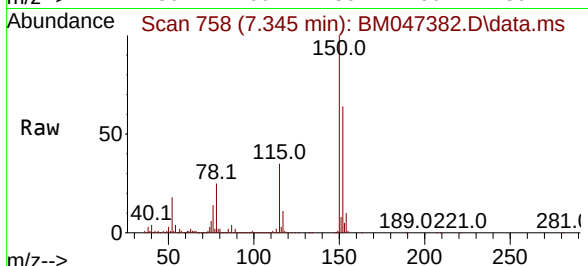


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.345 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: BM047382.D
 Acq: 28 Aug 2024 15:44

Instrument : BNA_M
 ClientSampleId : MOO-SOIL-PILEDL

Tgt Ion:152 Resp: 318938

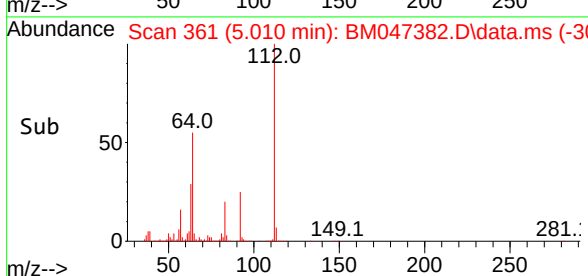
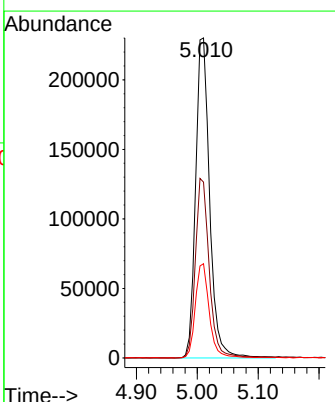
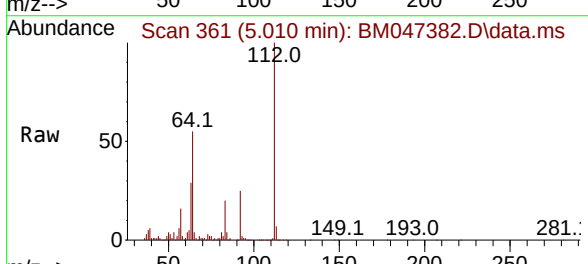
Ion	Ratio	Lower	Upper
152	100		
150	155.7	121.3	181.9
115	54.5	42.6	64.0

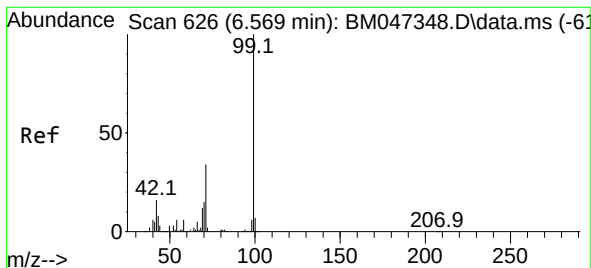


#5
 2-Fluorophenol
 Concen: 22.210 ng
 RT: 5.010 min Scan# 361
 Delta R.T. 0.006 min
 Lab File: BM047382.D
 Acq: 28 Aug 2024 15:44

Tgt Ion:112 Resp: 369213

Ion	Ratio	Lower	Upper
112	100		
64	54.9	45.7	68.5
63	29.5	23.8	35.8





#7

Phenol-d6

Concen: 21.869 ng

RT: 6.569 min Scan# 61

Delta R.T. 0.000 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

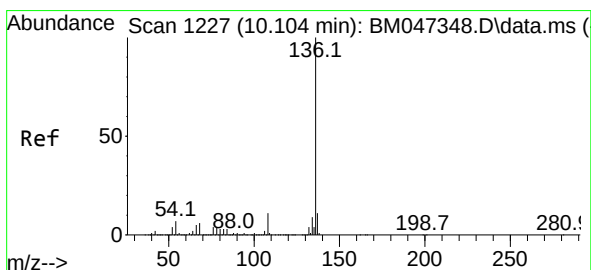
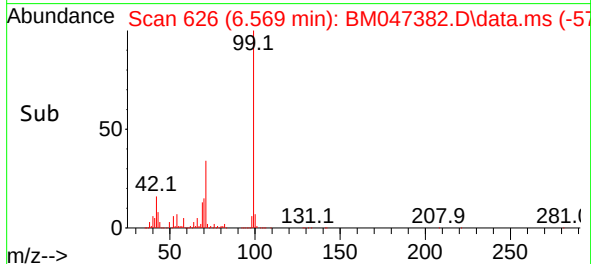
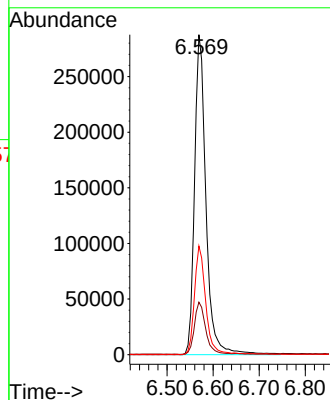
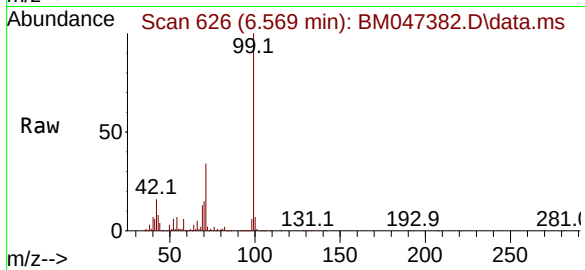
Tgt Ion: 99 Resp: 495249

Ion Ratio Lower Upper

99 100

42 16.4 13.0 19.4

71 34.0 27.5 41.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.104 min Scan# 1227

Delta R.T. 0.000 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Tgt Ion: 136 Resp: 1199484

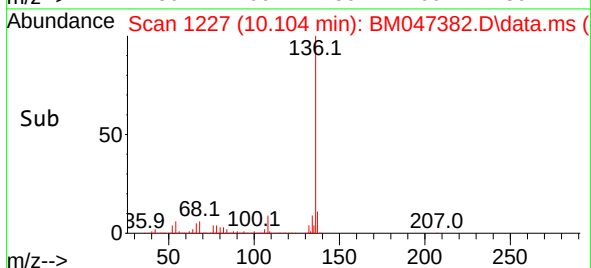
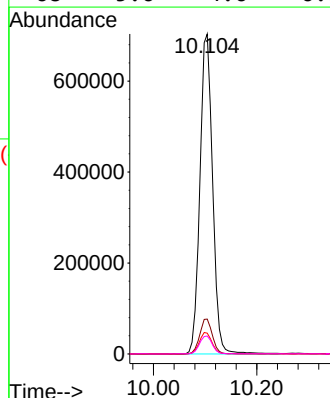
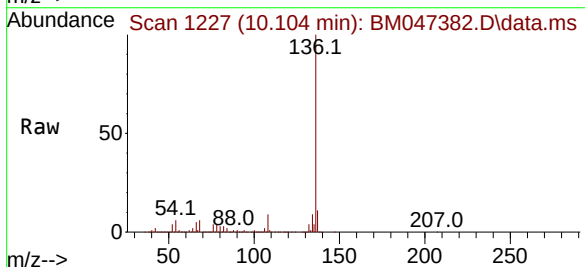
Ion Ratio Lower Upper

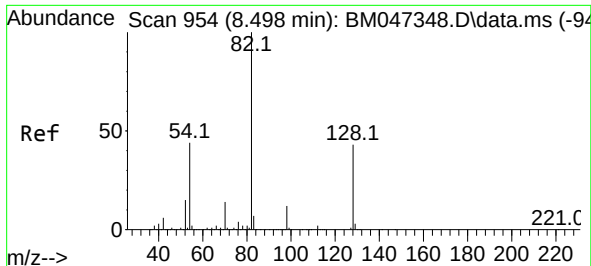
136 100

137 10.9 8.8 13.2

54 6.5 5.2 7.8

68 5.6 4.6 6.8

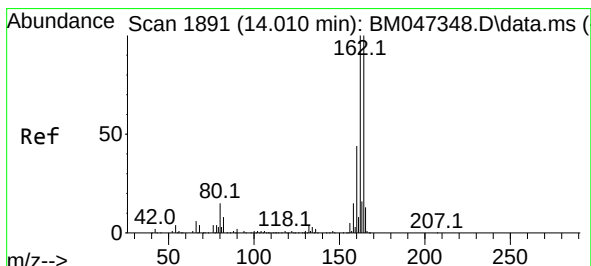
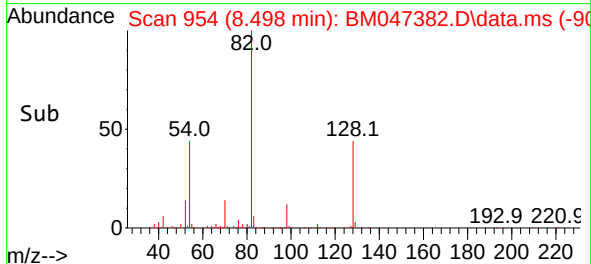
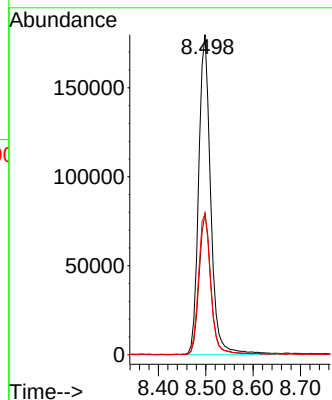
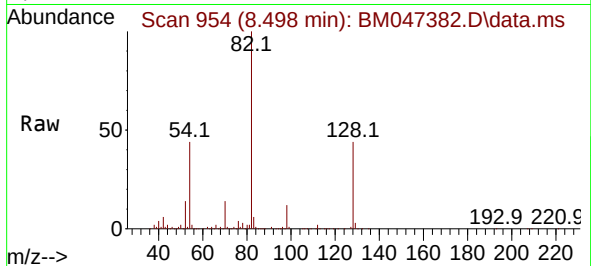




#23
Nitrobenzene-d5
Concen: 14.712 ng
RT: 8.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

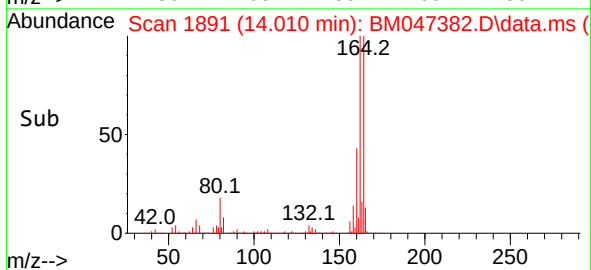
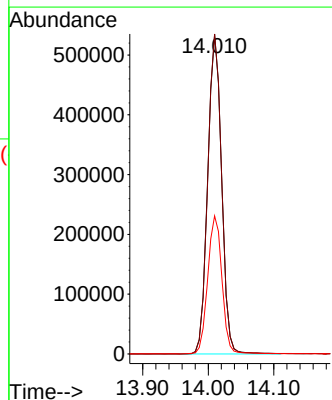
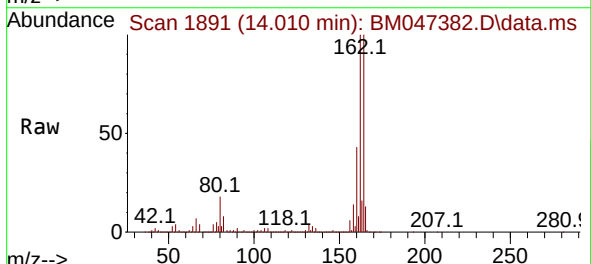
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

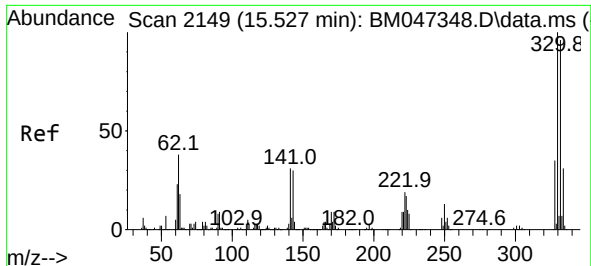
Tgt Ion: 82 Resp: 318037
Ion Ratio Lower Upper
82 100
128 44.2 34.6 51.8
54 44.1 35.5 53.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.010 min Scan# 1891
Delta R.T. -0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

Tgt Ion:164 Resp: 788191
Ion Ratio Lower Upper
164 100
162 100.1 79.7 119.5
160 43.2 34.9 52.3

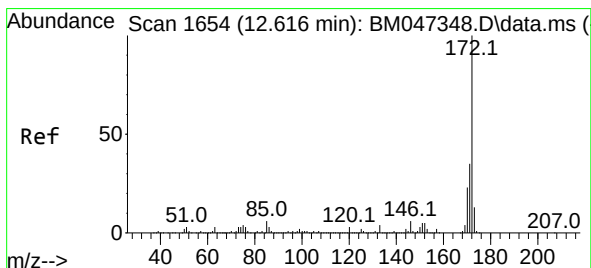
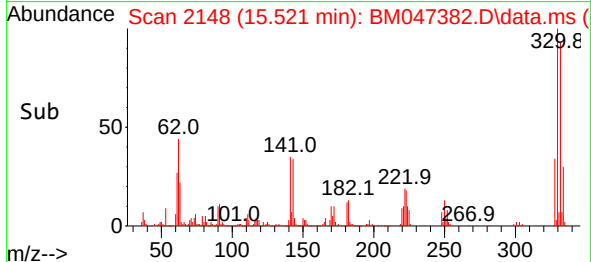
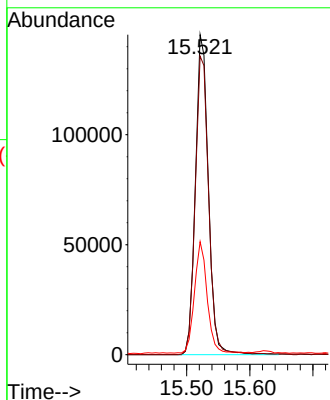
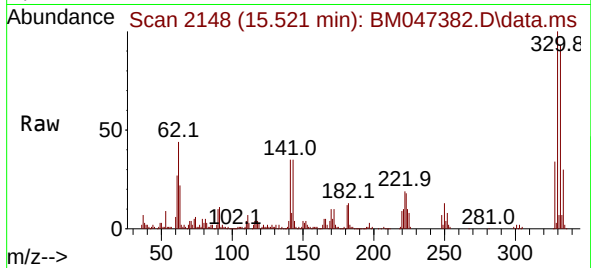




#42
2,4,6-Tribromophenol
Concen: 21.854 ng
RT: 15.521 min Scan# 2148
Delta R.T. -0.006 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

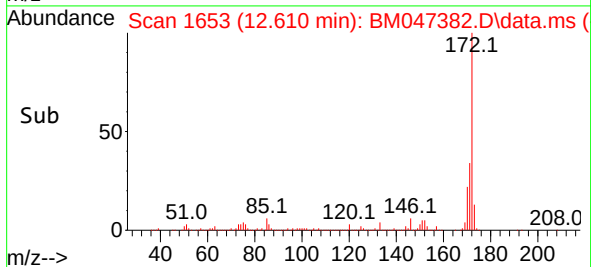
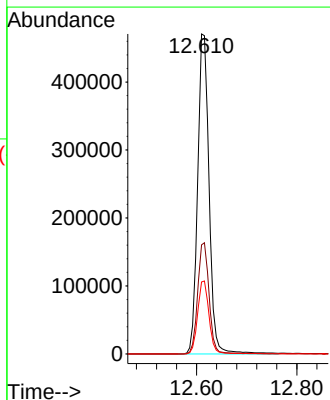
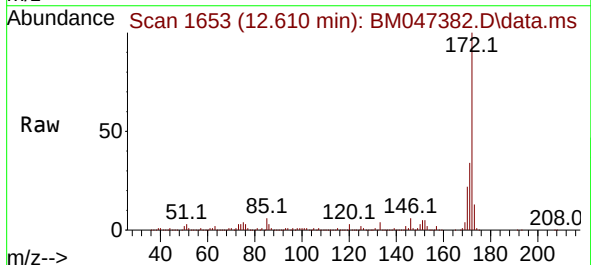
Instrument :
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ClientSampleId :
MOO-SOIL-PILEDL

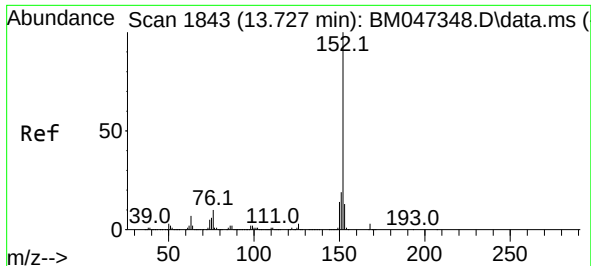
Tgt Ion:330 Resp: 207818
Ion Ratio Lower Upper
330 100
332 95.9 77.2 115.8
141 34.0 27.6 41.4



#45
2-Fluorobiphenyl
Concen: 14.534 ng
RT: 12.610 min Scan# 1653
Delta R.T. -0.006 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

Tgt Ion:172 Resp: 745586
Ion Ratio Lower Upper
172 100
171 34.1 27.8 41.6
170 22.5 18.5 27.7

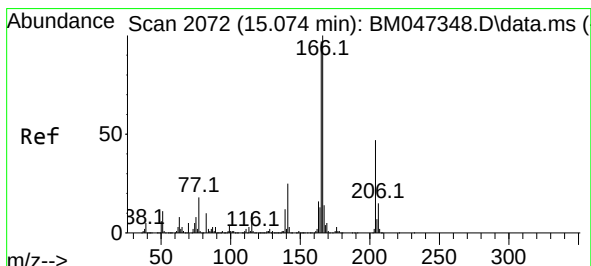
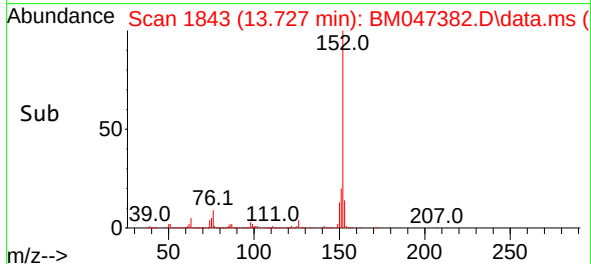
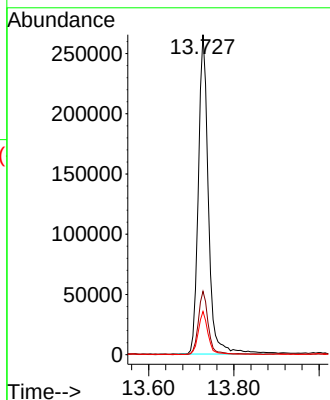
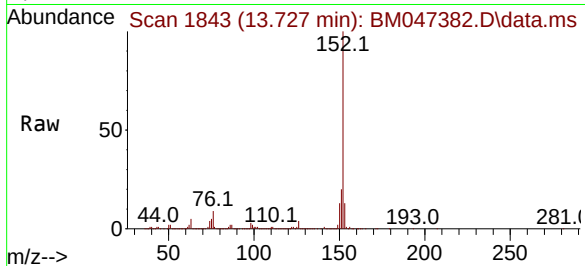




#49
Acenaphthylene
Concen: 6.965 ng
RT: 13.727 min Scan# 1843
Delta R.T. 0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

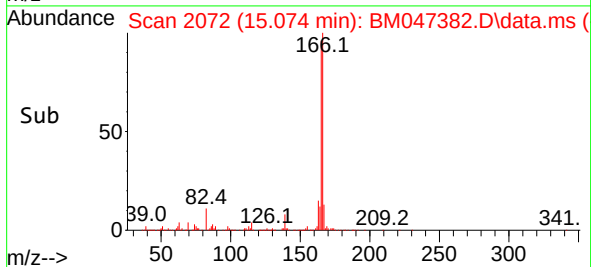
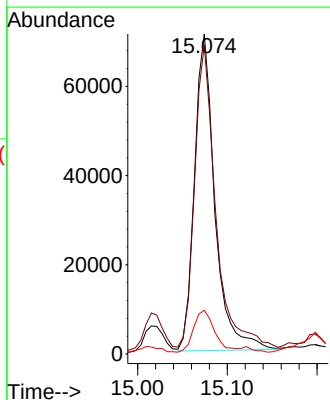
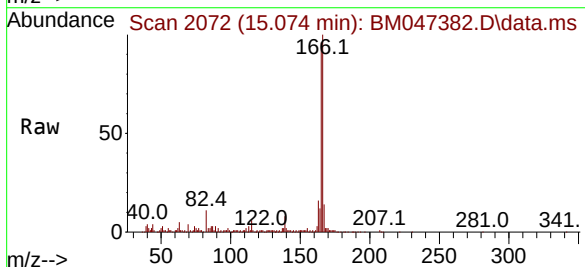
Instrument :
BNA_M
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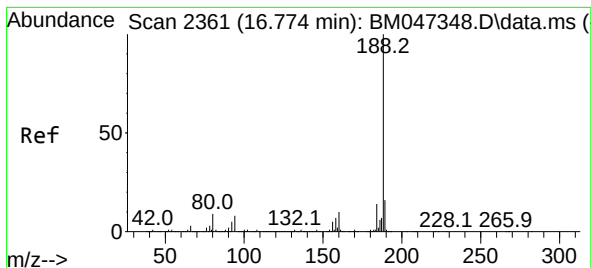
Tgt Ion:152 Resp: 436591
Ion Ratio Lower Upper
152 100
151 19.8 15.4 23.0
153 13.5 10.6 15.8



#58
Fluorene
Concen: 2.164 ng
RT: 15.074 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

Tgt Ion:166 Resp: 112246
Ion Ratio Lower Upper
166 100
165 96.4 77.8 116.6
167 13.7 11.1 16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.780 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

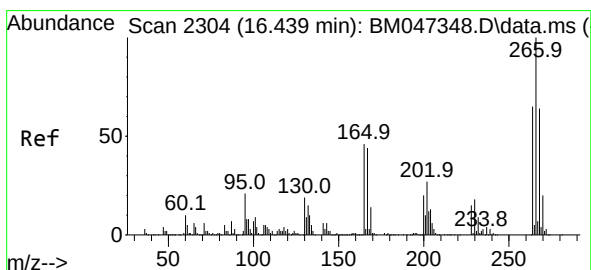
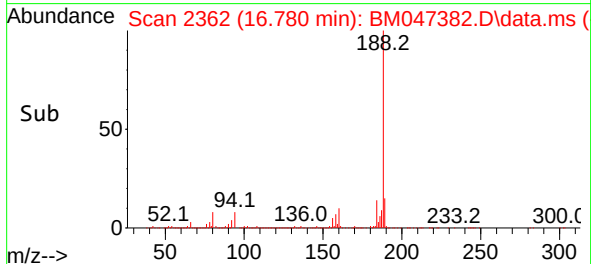
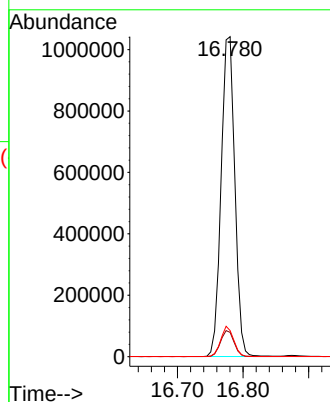
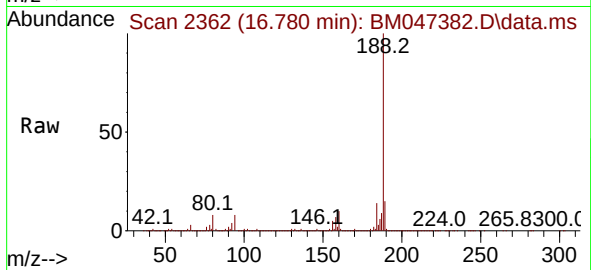
Tgt Ion:188 Resp: 1502953

Ion Ratio Lower Upper

188 100

94 7.6 6.4 9.6

80 8.1 7.4 11.2



#70

Pentachlorophenol

Concen: 3.508 ng

RT: 16.451 min Scan# 2306

Delta R.T. 0.012 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

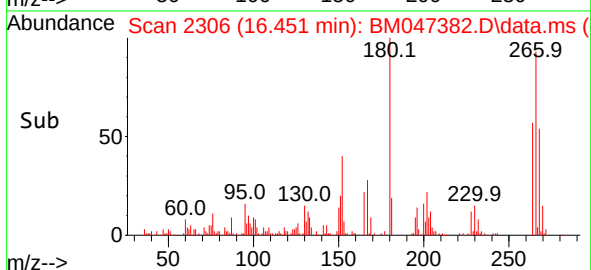
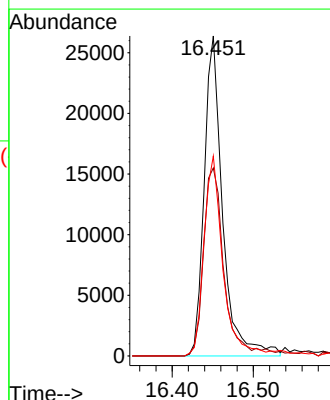
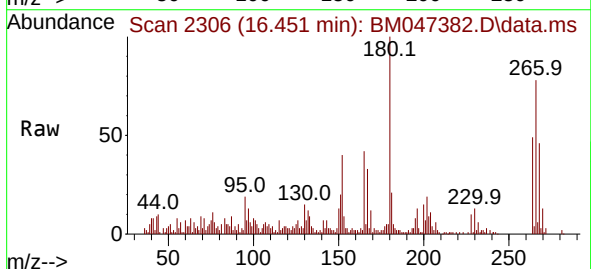
Tgt Ion:266 Resp: 41531

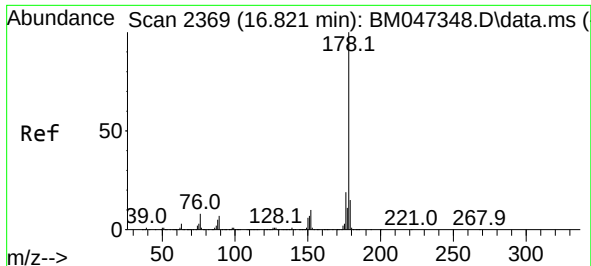
Ion Ratio Lower Upper

266 100

268 58.7 51.0 76.6

264 62.5 51.9 77.9

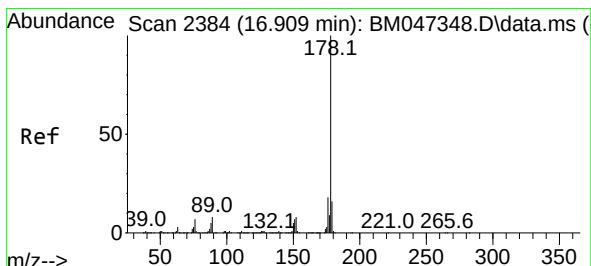
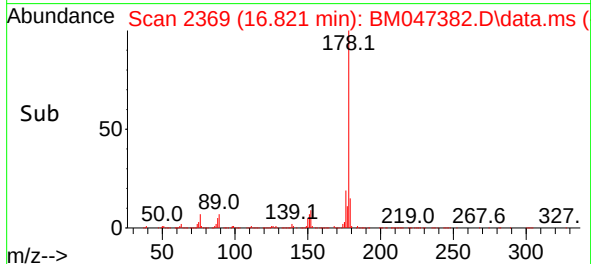
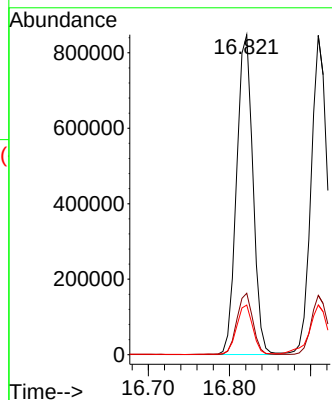
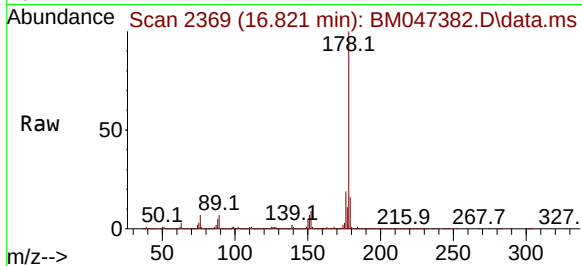




#71
Phenanthrene
Concen: 16.135 ng
RT: 16.821 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

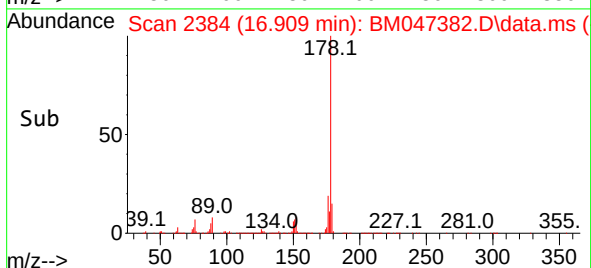
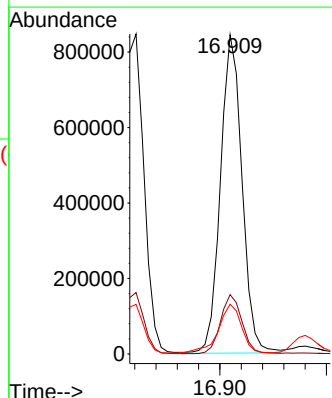
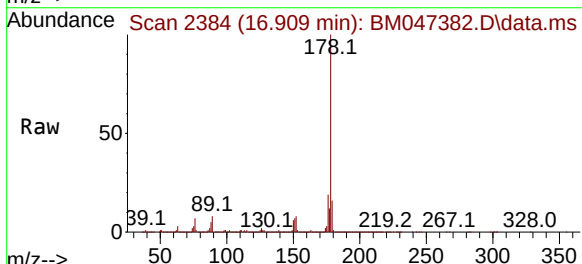
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILEDL

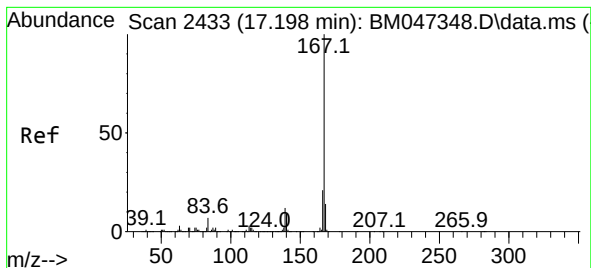
Tgt Ion:178 Resp: 1177728
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.5 12.2 18.4



#72
Anthracene
Concen: 16.639 ng
RT: 16.909 min Scan# 2384
Delta R.T. 0.000 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

Tgt Ion:178 Resp: 1183931
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.6 12.6 18.8





#73

Carbazole

Concen: 6.723 ng

RT: 17.198 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

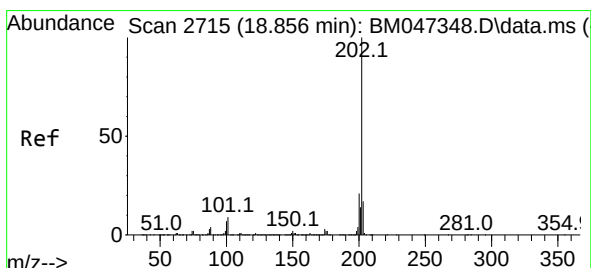
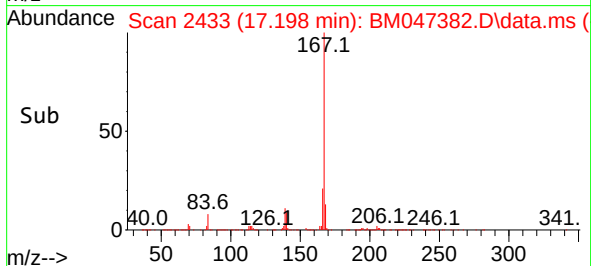
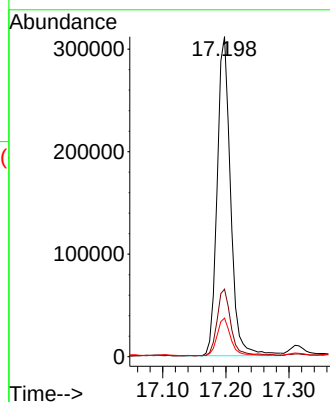
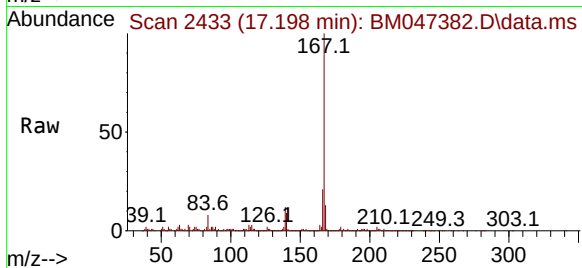
Tgt Ion:167 Resp: 459072

Ion Ratio Lower Upper

167 100

166 21.1 16.9 25.3

139 12.1 9.5 14.3



#75

Fluoranthene

Concen: 47.837 ng

RT: 18.862 min Scan# 2716

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

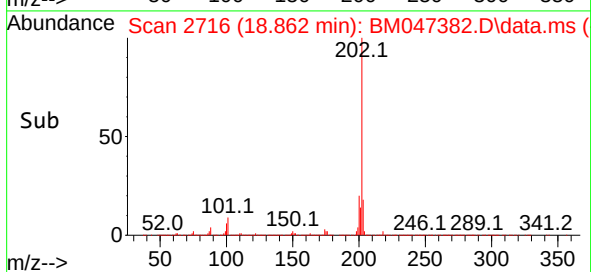
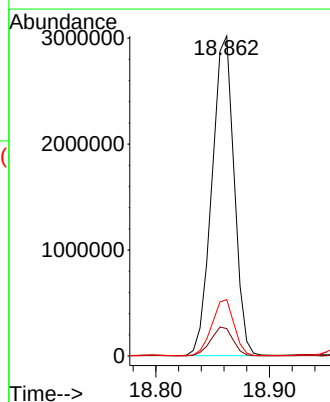
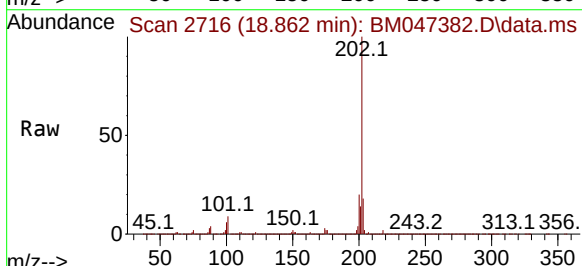
Tgt Ion:202 Resp: 4099849

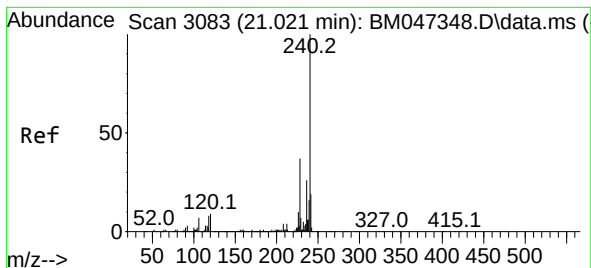
Ion Ratio Lower Upper

202 100

101 8.6 0.0 29.0

203 17.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.027 min Scan# 30

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

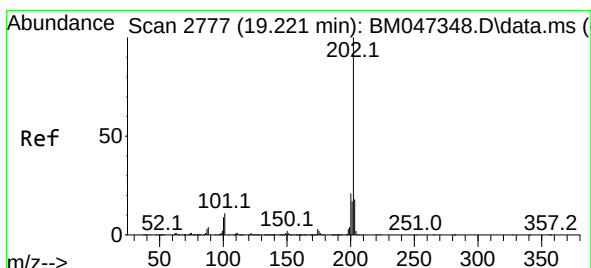
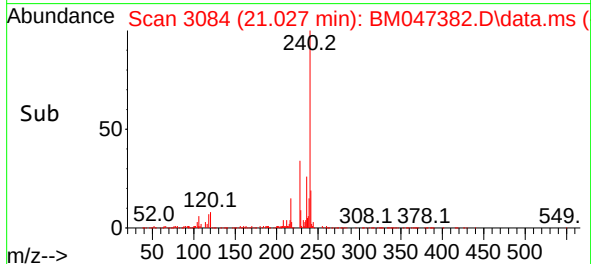
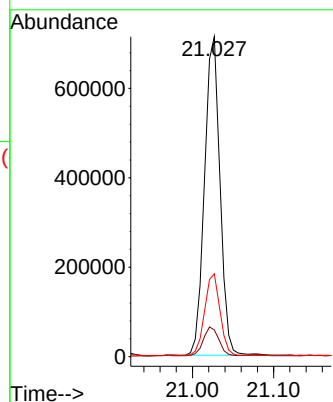
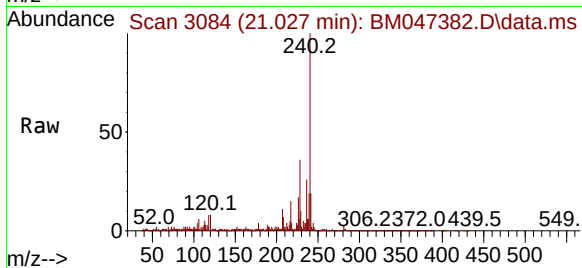
Tgt Ion:240 Resp: 941205

Ion Ratio Lower Upper

240 100

120 8.4 7.4 11.0

236 25.9 20.8 31.2



#78

Pyrene

Concen: 64.189 ng

RT: 19.227 min Scan# 2778

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

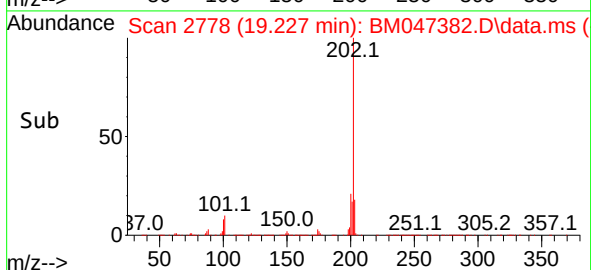
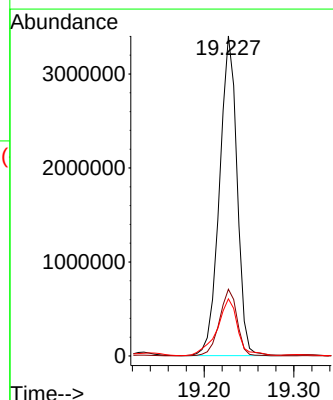
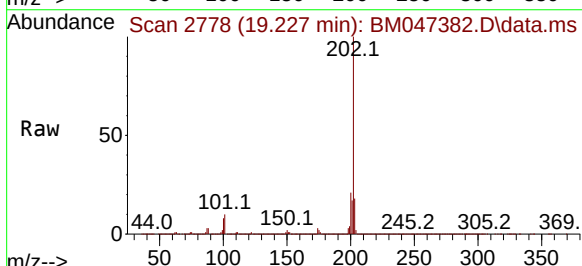
Tgt Ion:202 Resp: 4633649

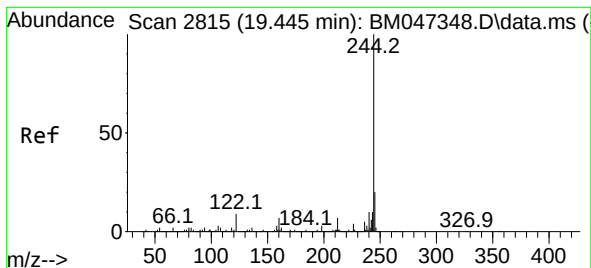
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.8 14.2 21.4





#79

Terphenyl-d14

Concen: 15.356 ng

RT: 19.445 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

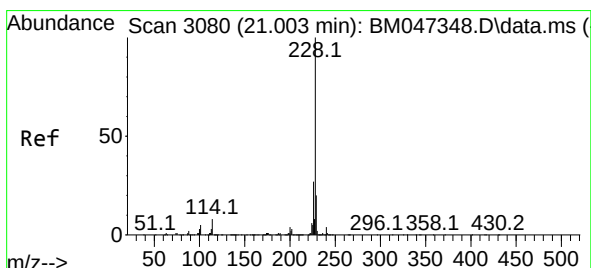
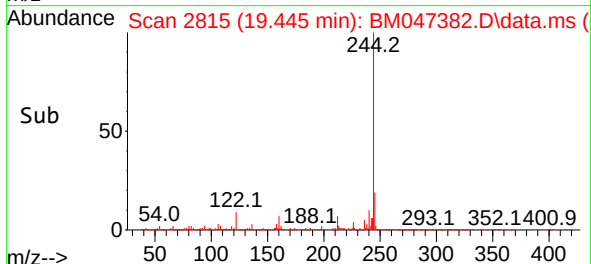
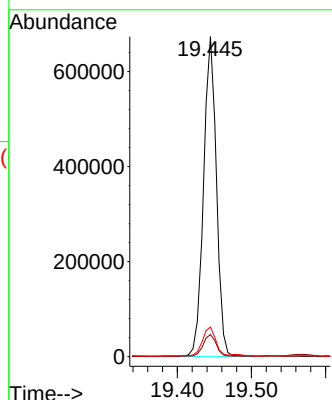
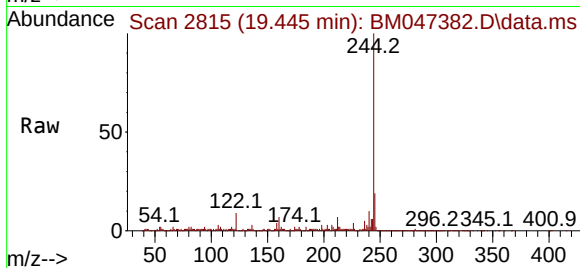
Tgt Ion:244 Resp: 811990

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 9.2 7.0 10.4



#81

Benzo(a)anthracene

Concen: 27.766 ng

RT: 21.009 min Scan# 3081

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

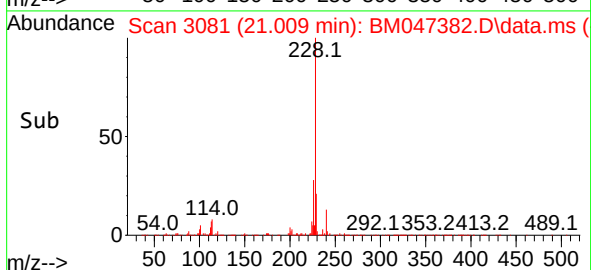
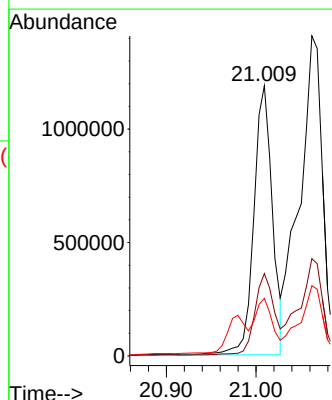
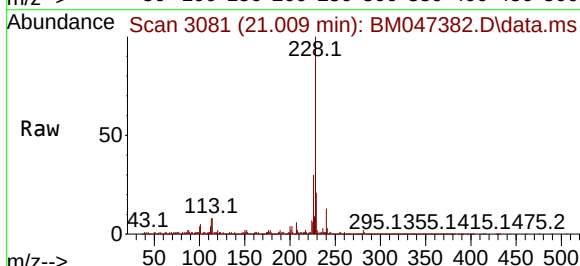
Tgt Ion:228 Resp: 1704254

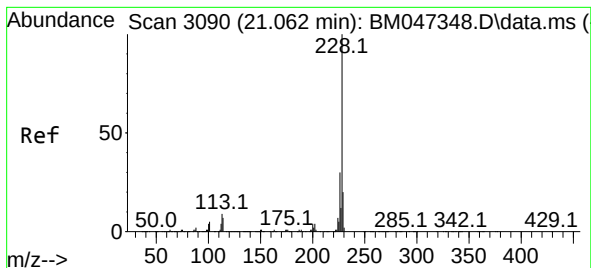
Ion Ratio Lower Upper

228 100

226 30.5 21.4 32.0

229 21.3 15.8 23.8





#83

Chrysene

Concen: 43.550 ng

RT: 21.062 min Scan# 3090

Delta R.T. 0.000 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

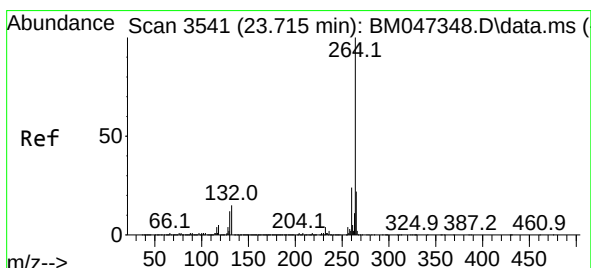
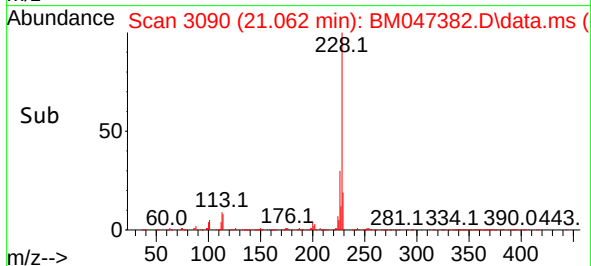
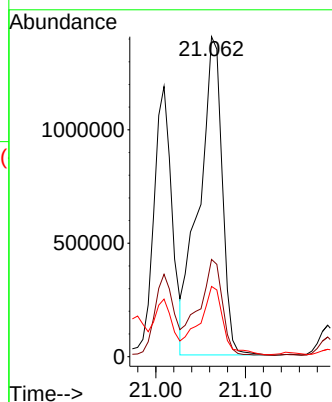
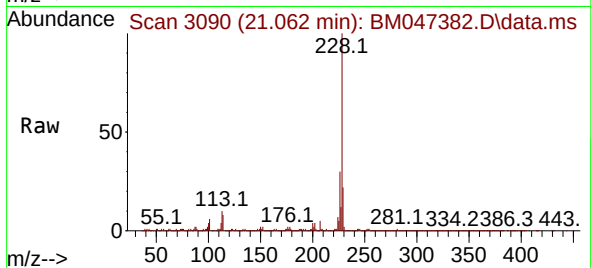
Tgt Ion:228 Resp: 2514440

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

229 22.0 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.727 min Scan# 3543

Delta R.T. 0.012 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

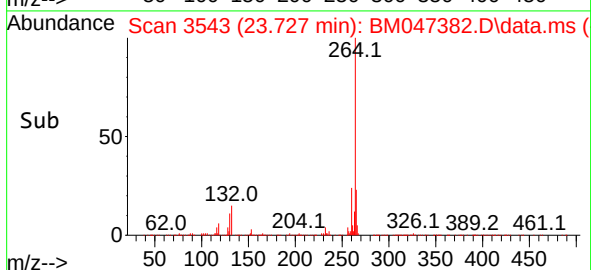
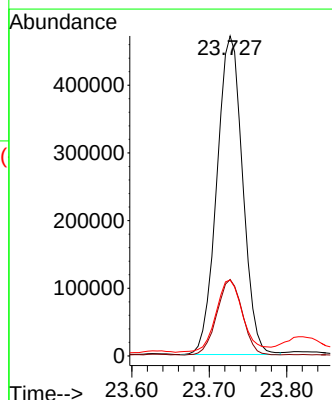
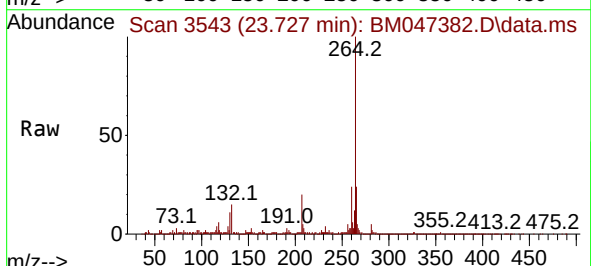
Tgt Ion:264 Resp: 1089694

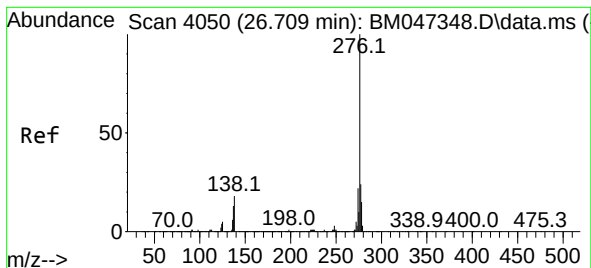
Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 23.8 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.759 ng

RT: 26.732 min Scan# 4054

Delta R.T. 0.024 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

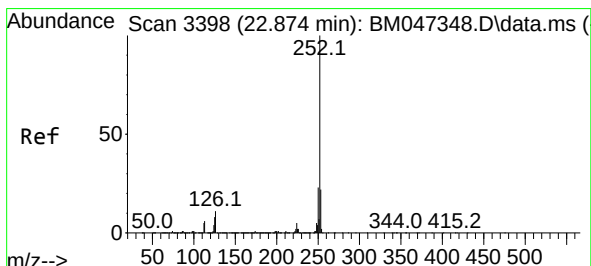
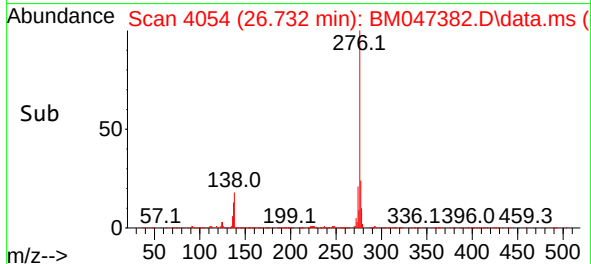
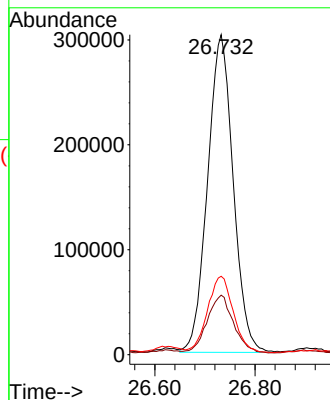
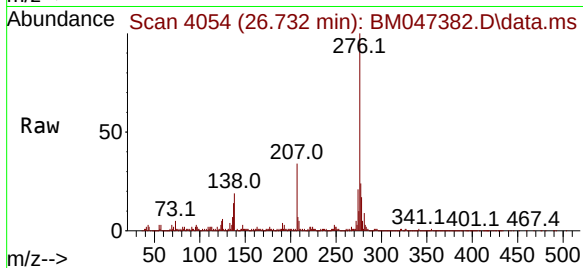
Tgt Ion:276 Resp: 1074962

Ion Ratio Lower Upper

276 100

138 18.7 17.7 26.5

277 24.1 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 54.216 ng

RT: 22.891 min Scan# 3401

Delta R.T. 0.018 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

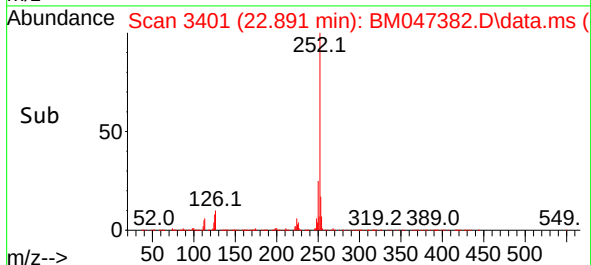
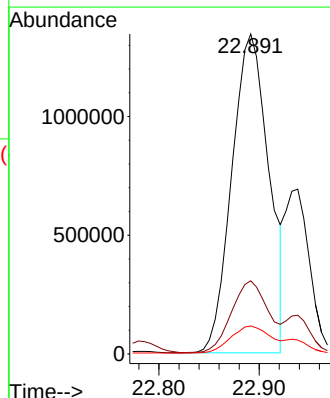
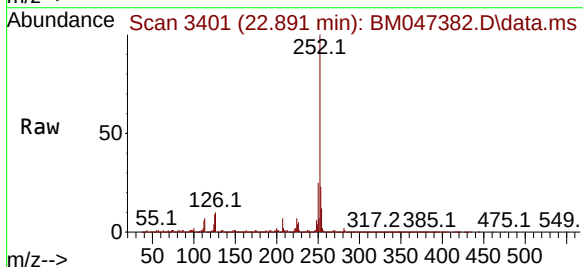
Tgt Ion:252 Resp: 3446806

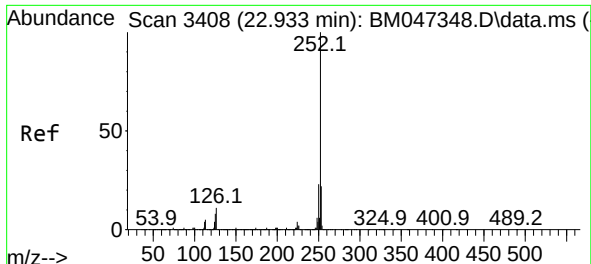
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 8.8 6.6 10.0

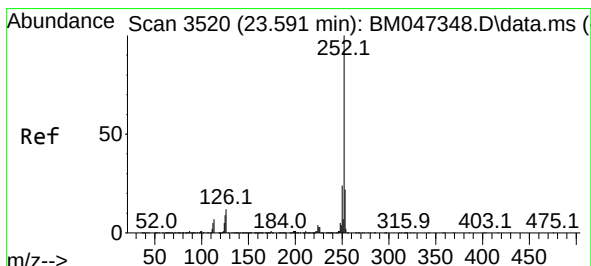
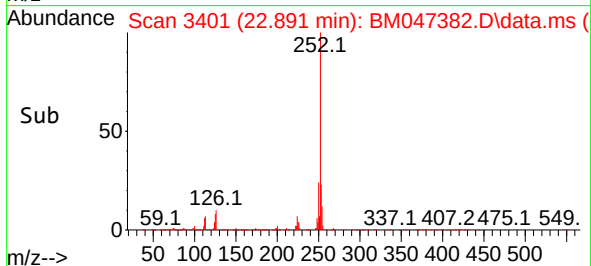
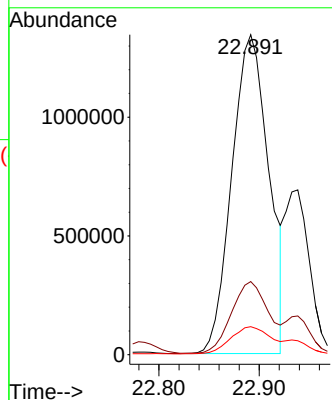
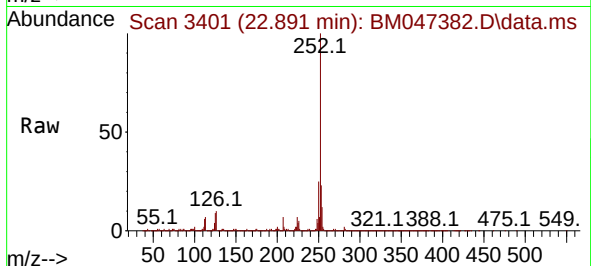




#89
Benzo(k)fluoranthene
Concen: 57.192 ng
RT: 22.891 min Scan# 3401
Delta R.T. -0.041 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

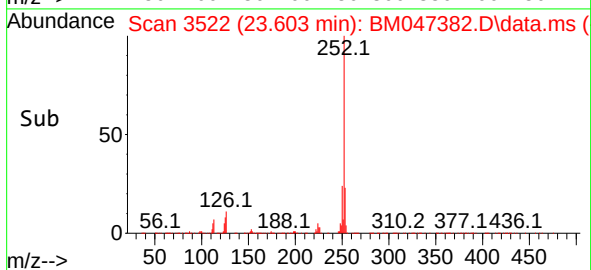
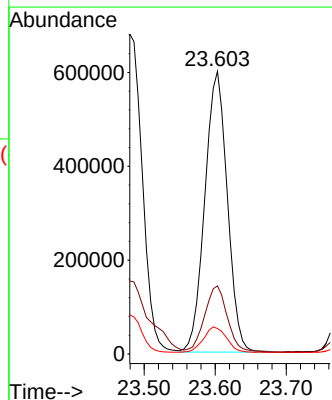
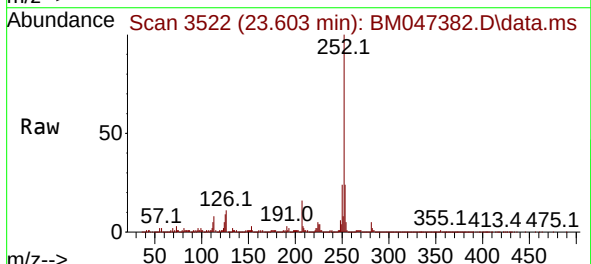
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PIEDL

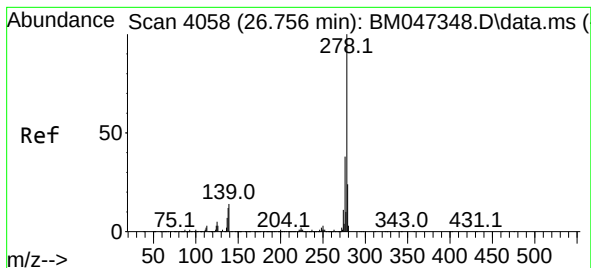
Tgt Ion:252 Resp: 3446806
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 8.8 6.6 9.8



#90
Benzo(a)pyrene
Concen: 23.989 ng
RT: 23.603 min Scan# 3522
Delta R.T. 0.012 min
Lab File: BM047382.D
Acq: 28 Aug 2024 15:44

Tgt Ion:252 Resp: 1318869
Ion Ratio Lower Upper
252 100
253 24.0 17.7 26.5
125 9.0 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 5.273 ng

RT: 26.762 min Scan# 40

Delta R.T. 0.006 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILEDL

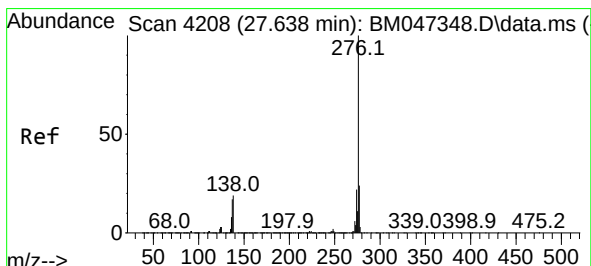
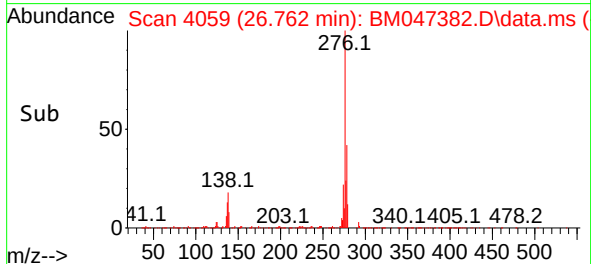
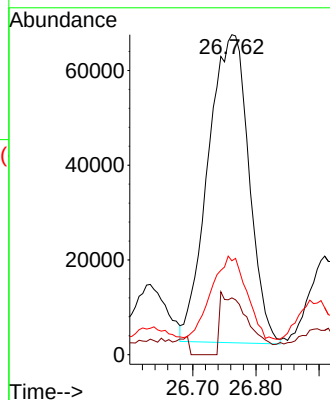
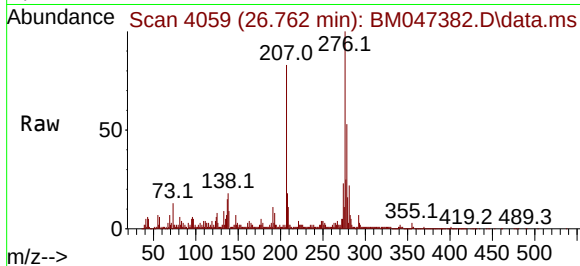
Tgt Ion:278 Resp: 291422

Ion Ratio Lower Upper

278 100

139 17.8 11.1 16.7#

279 29.3 19.2 28.8#



#92

Benzo(g,h,i)perylene

Concen: 16.065 ng

RT: 27.662 min Scan# 4212

Delta R.T. 0.024 min

Lab File: BM047382.D

Acq: 28 Aug 2024 15:44

Tgt Ion:276 Resp: 922944

Ion Ratio Lower Upper

276 100

277 23.7 19.4 29.0

138 19.9 15.0 22.6

