

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082724\
 Data File : BM047359.D
 Acq On : 27 Aug 2024 11:57
 Operator : RC/JU
 Sample : P3726-01 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MOO-SOIL-PILE

Quant Time: Aug 27 13:06:41 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)

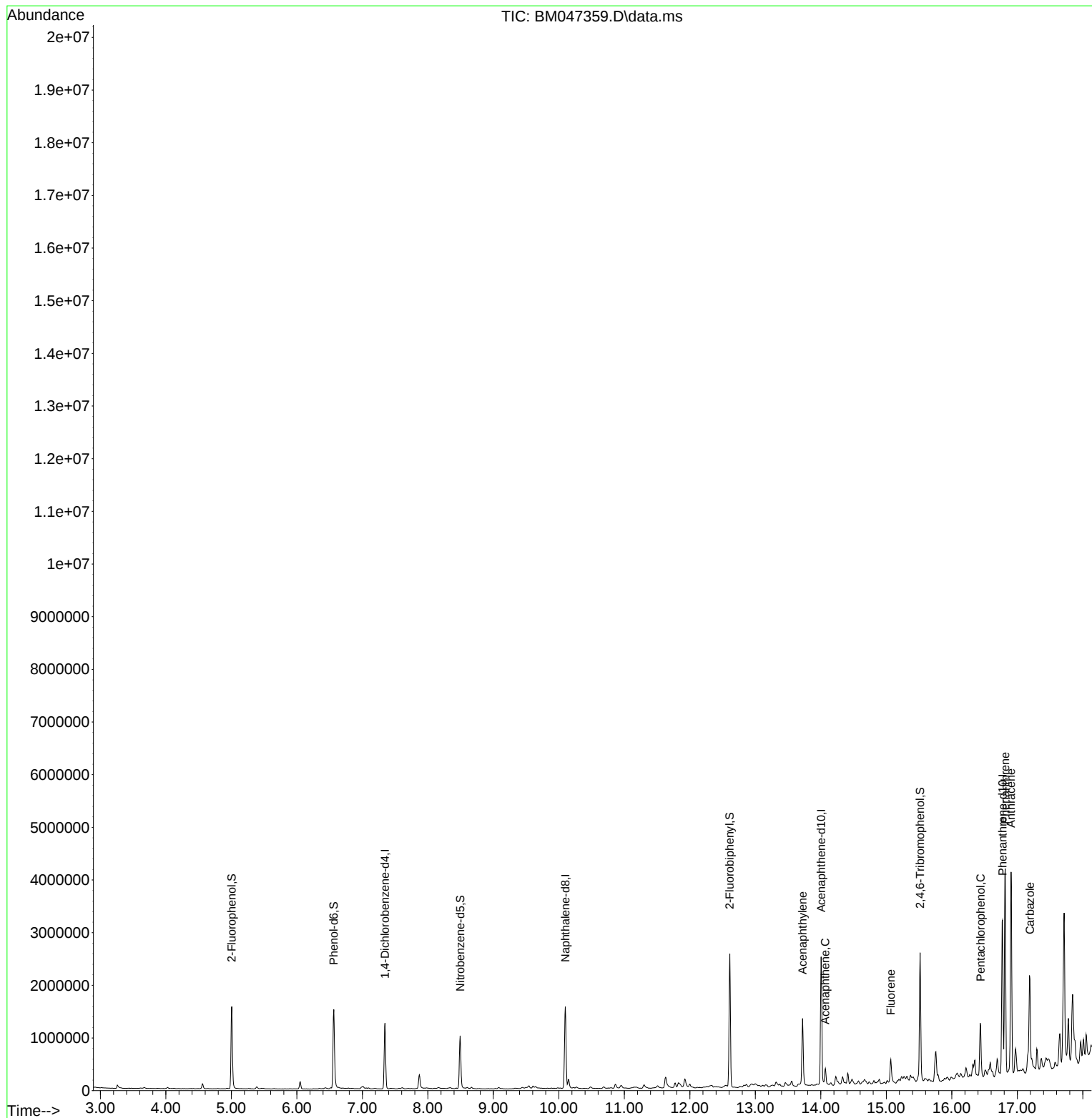
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.346	152	347192	20.000	ng	0.00
21) Naphthalene-d8	10.098	136	1301552	20.000	ng	0.00
39) Acenaphthene-d10	14.004	164	863263	20.000	ng	0.00
64) Phenanthrene-d10	16.774	188	1837561	20.000	ng	0.00
76) Chrysene-d12	21.021	240	1297459	20.000	ng	0.00
86) Perylene-d12	23.715	264	1400680	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.005	112	712080	39.349	ng	0.00
7) Phenol-d6	6.563	99	926716	37.592	ng	0.00
23) Nitrobenzene-d5	8.493	82	590148	25.158	ng	0.00
42) 2,4,6-Tribromophenol	15.516	330	409190	39.288	ng	-0.01
45) 2-Fluorobiphenyl	12.610	172	1324120	23.568	ng	0.00
79) Terphenyl-d14	19.439	244	1842967	25.283	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	13.722	152	956578	13.933	ng	99
52) Acenaphthene	14.069	154	117358	2.693	ng	99
58) Fluorene	15.069	166	215575	3.794	ng	99
70) Pentachlorophenol	16.439	266	121055	8.363	ng	99
71) Phenanthrene	16.816	178	2352272	26.359	ng	99
72) Anthracene	16.904	178	2475903	28.461	ng	99
73) Carbazole	17.192	167	1158949	13.883	ng	99
75) Fluoranthene	18.857	202	9266386	88.433	ng	98
78) Pyrene	19.227	202	10481739	105.332	ng	98
81) Benzo(a)anthracene	21.004	228	4167911	49.259	ng	94
83) Chrysene	21.062	228	5907990	74.229	ng	97
87) Indeno(1,2,3-cd)pyrene	26.715	276	2330829	26.583	ng	96
88) Benzo(b)fluoranthene	22.892	252	7878905	96.415	ng	99
89) Benzo(k)fluoranthene	22.933	252	2306556m	29.775	ng	
90) Benzo(a)pyrene	23.598	252	2882329	40.786	ng	97
91) Dibenzo(a,h)anthracene	26.739	278	583237	8.211	ng	# 89
92) Benzo(g,h,i)perylene	27.644	276	2050179	27.763	ng	99

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

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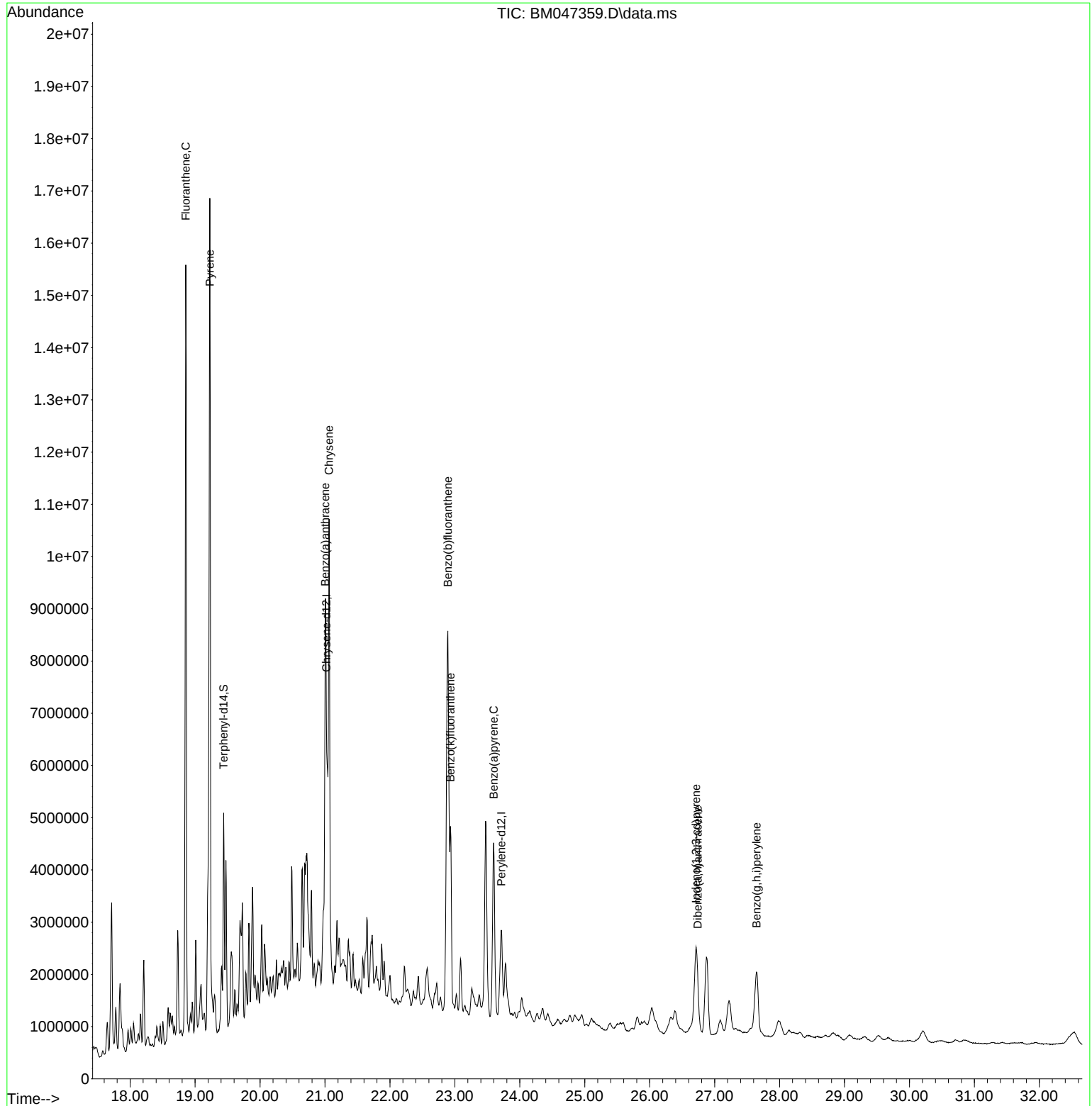
Quant Time: Aug 27 13:06:41 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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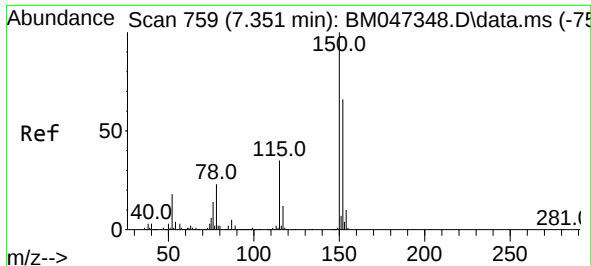


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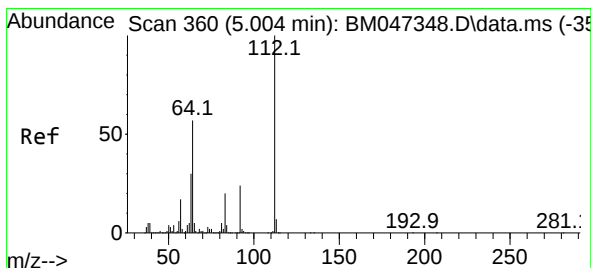
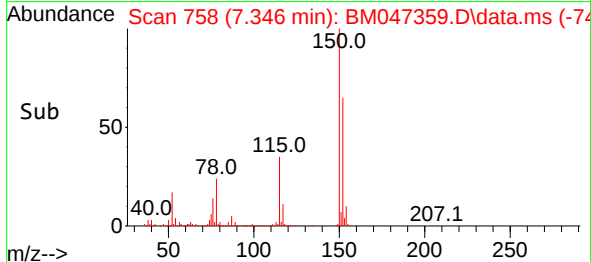
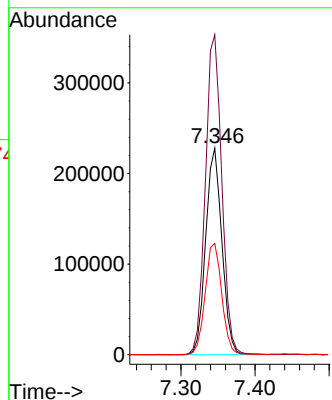
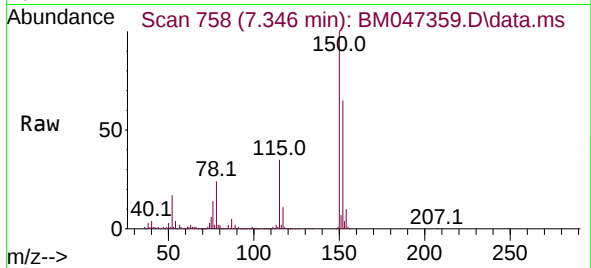




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.346 min Scan# 71
Delta R.T. -0.005 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

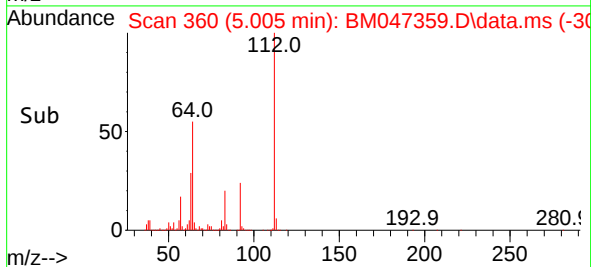
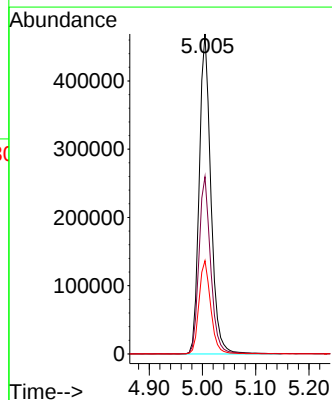
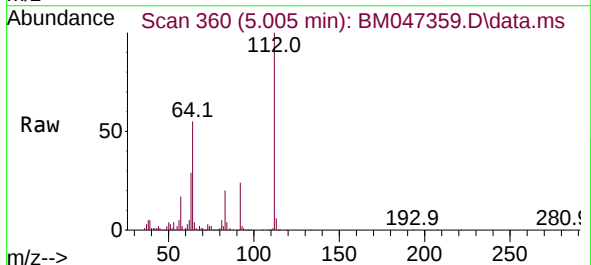
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILE

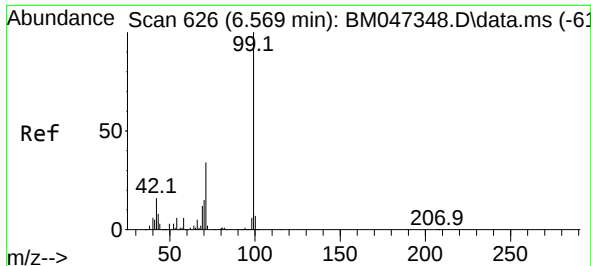
Tgt Ion:152 Resp: 347192
Ion Ratio Lower Upper
152 100
150 155.0 121.3 181.9
115 54.0 42.6 64.0



#5
2-Fluorophenol
Concen: 39.349 ng
RT: 5.005 min Scan# 360
Delta R.T. 0.000 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion:112 Resp: 712080
Ion Ratio Lower Upper
112 100
64 55.4 45.7 68.5
63 29.1 23.8 35.8

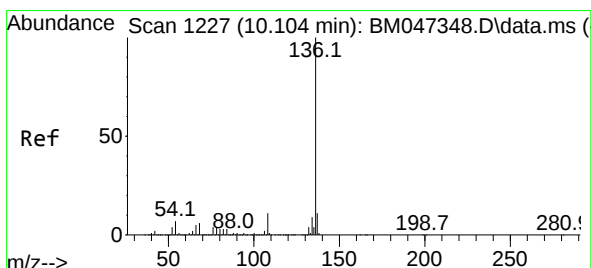
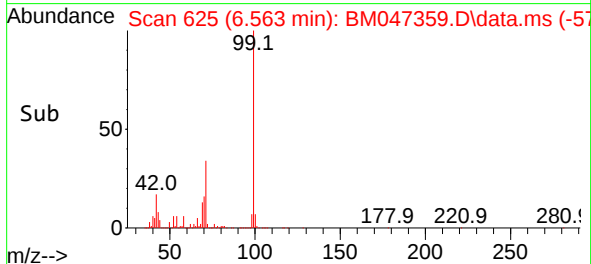
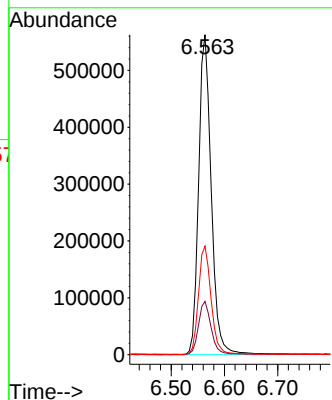
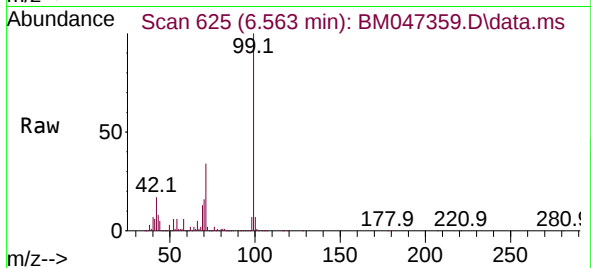




#7
Phenol-d6
Concen: 37.592 ng
RT: 6.563 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

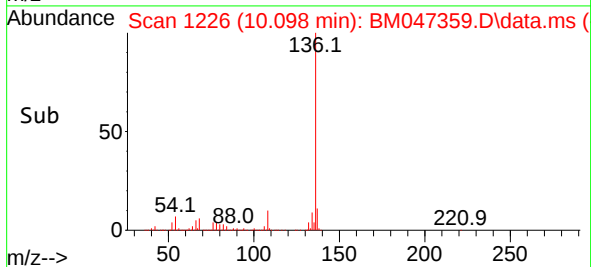
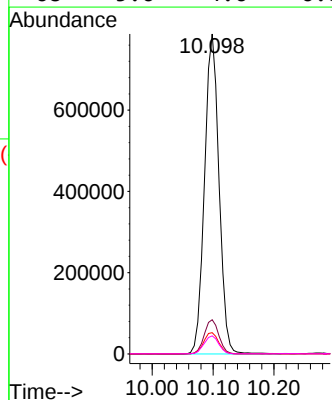
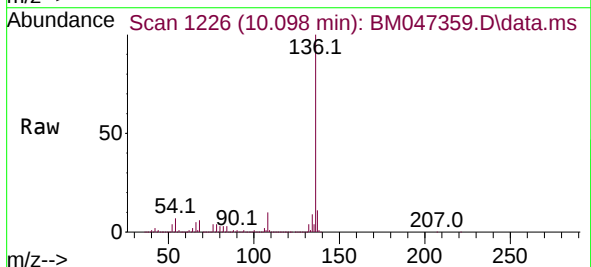
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILE

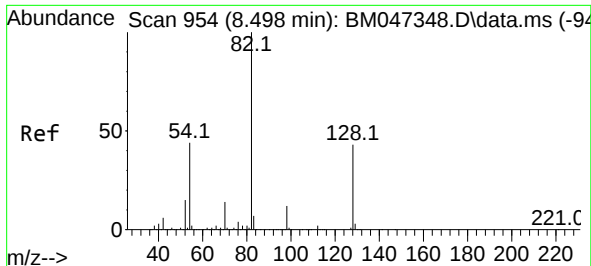
Tgt Ion: 99 Resp: 926716
Ion Ratio Lower Upper
99 100
42 16.6 13.0 19.4
71 34.0 27.5 41.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.098 min Scan# 1226
Delta R.T. -0.006 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion: 136 Resp: 1301552
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 6.7 5.2 7.8
68 5.6 4.6 6.8

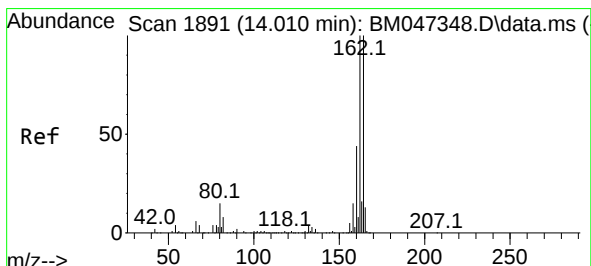
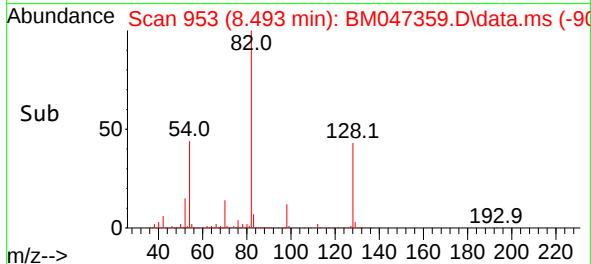
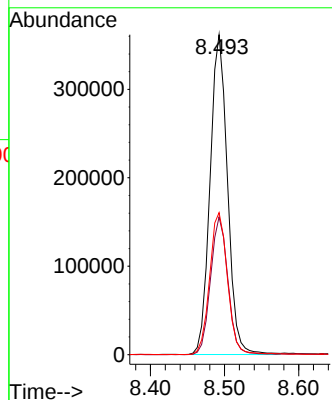
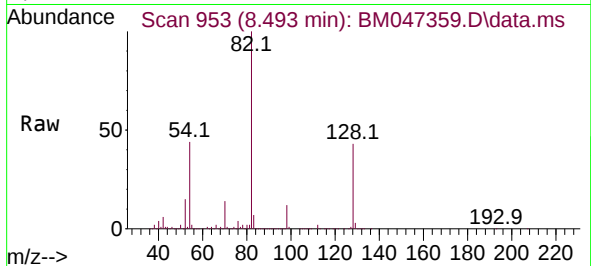




#23
Nitrobenzene-d5
Concen: 25.158 ng
RT: 8.493 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

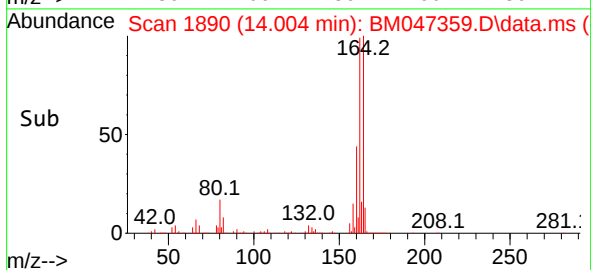
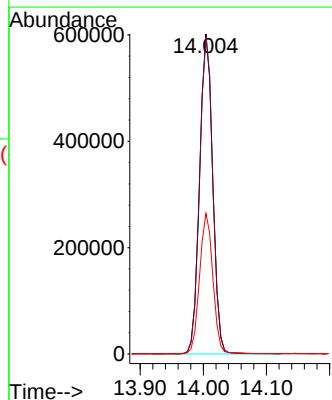
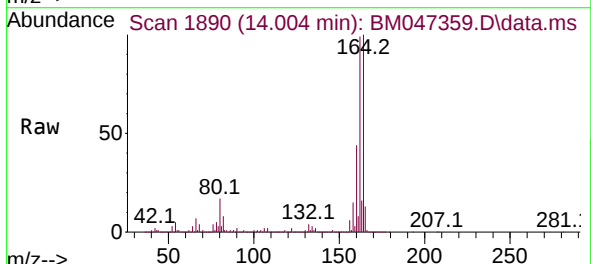
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILE

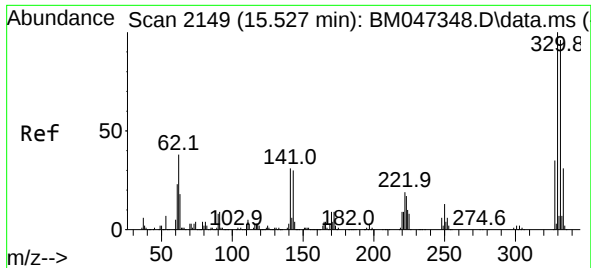
Tgt Ion: 82 Resp: 590148
Ion Ratio Lower Upper
82 100
128 43.1 34.6 51.8
54 44.4 35.5 53.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.004 min Scan# 1890
Delta R.T. -0.006 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion: 164 Resp: 863263
Ion Ratio Lower Upper
164 100
162 99.2 79.7 119.5
160 43.9 34.9 52.3

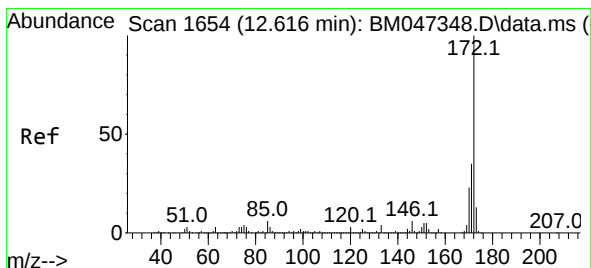
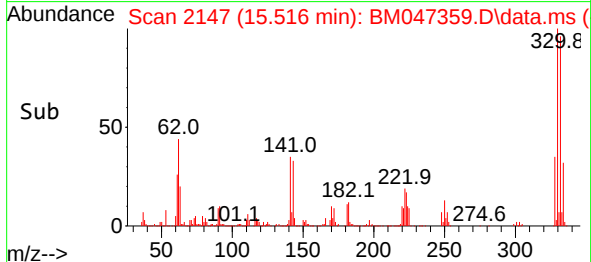
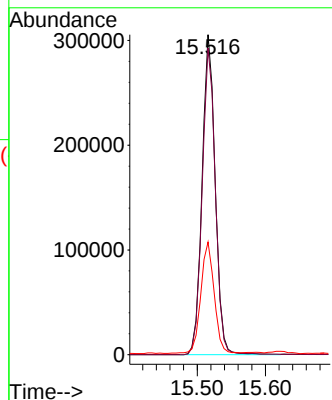
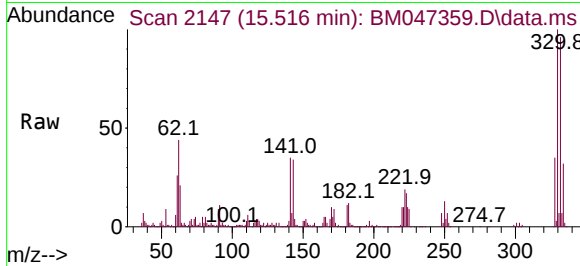




#42
2,4,6-Tribromophenol
Concen: 39.288 ng
RT: 15.516 min Scan# 2149
Delta R.T. -0.011 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

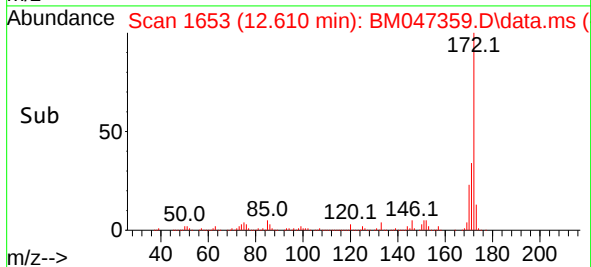
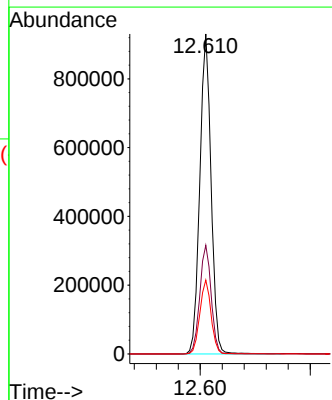
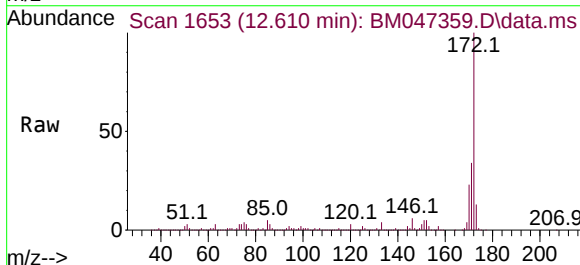
Instrument :
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ClientSampleId :
MOO-SOIL-PILE

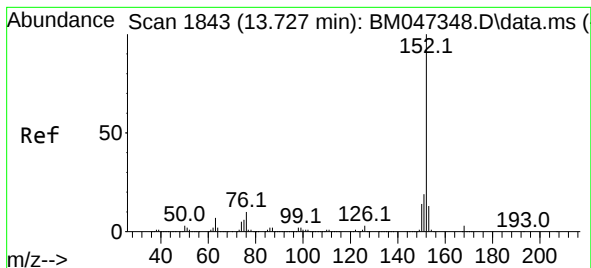
Tgt Ion:330 Resp: 409190
Ion Ratio Lower Upper
330 100
332 96.3 77.2 115.8
141 35.5 27.6 41.4



#45
2-Fluorobiphenyl
Concen: 23.568 ng
RT: 12.610 min Scan# 1653
Delta R.T. -0.006 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion:172 Resp: 1324120
Ion Ratio Lower Upper
172 100
171 33.9 27.8 41.6
170 23.1 18.5 27.7





#49

Acenaphthylene

Concen: 13.933 ng

RT: 13.722 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

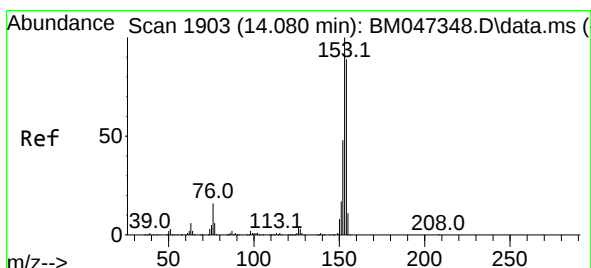
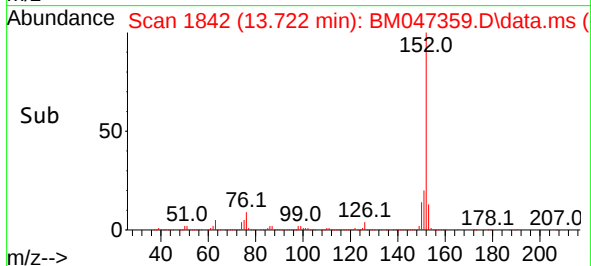
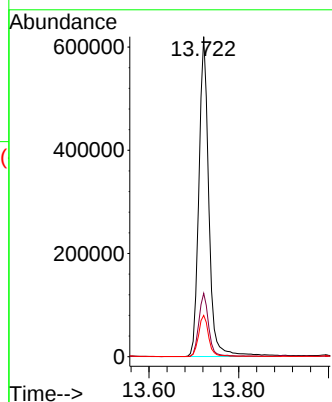
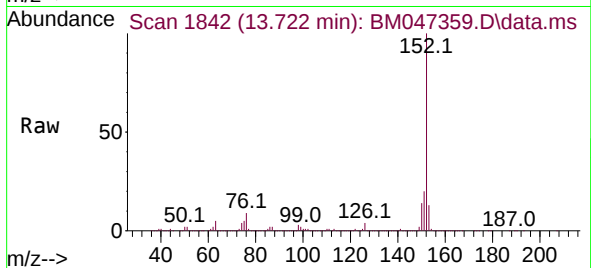
Tgt Ion:152 Resp: 956578

Ion Ratio Lower Upper

152 100

151 19.8 15.4 23.0

153 12.9 10.6 15.8



#52

Acenaphthene

Concen: 2.693 ng

RT: 14.069 min Scan# 1901

Delta R.T. -0.011 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

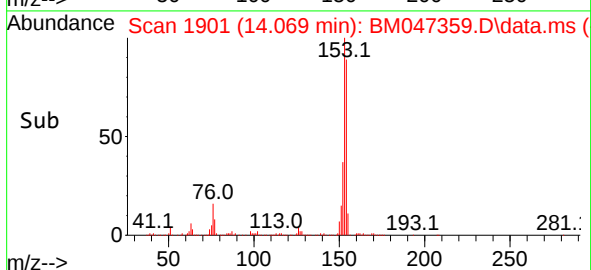
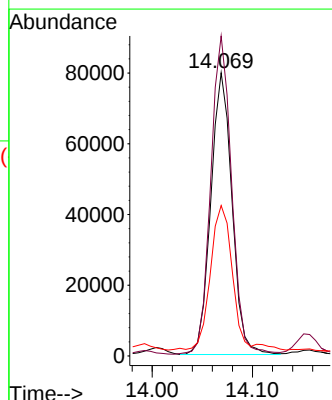
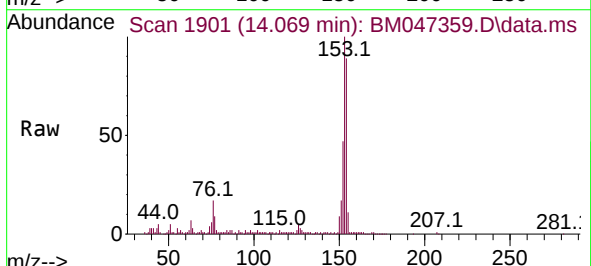
Tgt Ion:154 Resp: 117358

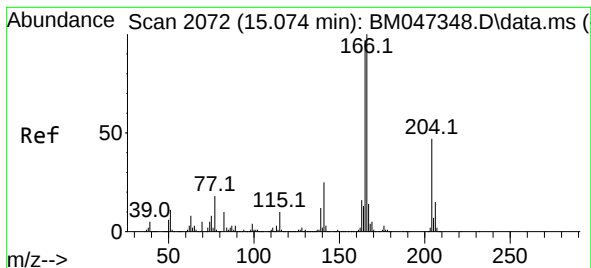
Ion Ratio Lower Upper

154 100

153 113.0 89.5 134.3

152 53.1 43.0 64.4





#58

Fluorene

Concen: 3.794 ng

RT: 15.069 min Scan# 2072

Delta R.T. -0.006 min

Lab File: BM047359.D

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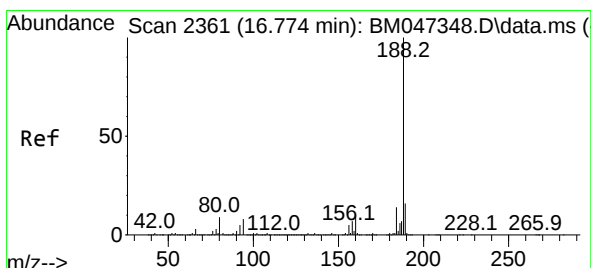
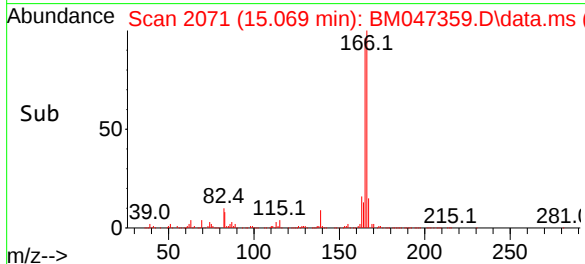
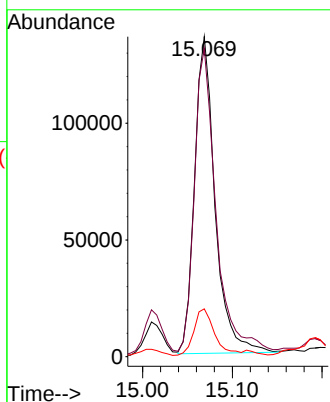
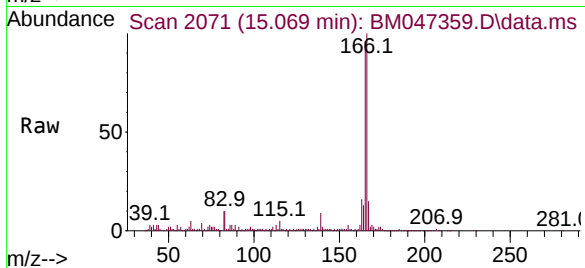
Tgt Ion:166 Resp: 215575

Ion Ratio Lower Upper

166 100

165 96.3 77.8 116.6

167 15.0 11.1 16.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.774 min Scan# 2361

Delta R.T. 0.000 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

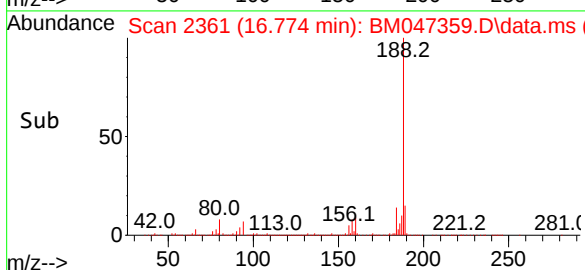
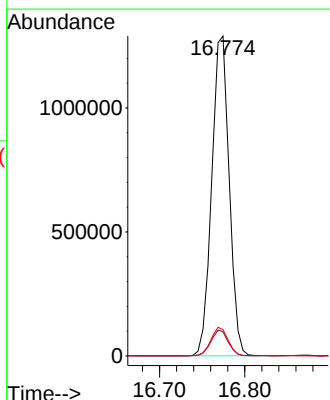
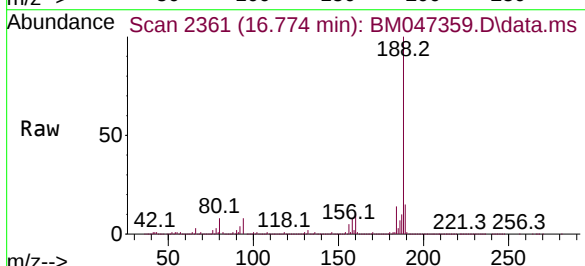
Tgt Ion:188 Resp: 1837561

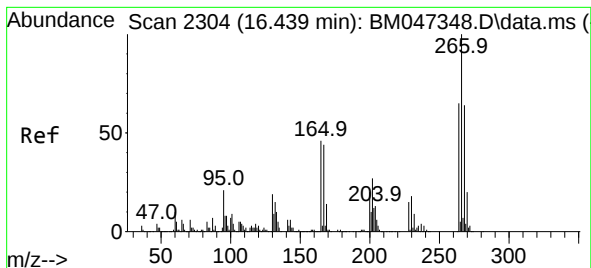
Ion Ratio Lower Upper

188 100

94 7.5 6.4 9.6

80 8.2 7.4 11.2





#70

Pentachlorophenol

Concen: 8.363 ng

RT: 16.439 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

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MOO-SOIL-PILE

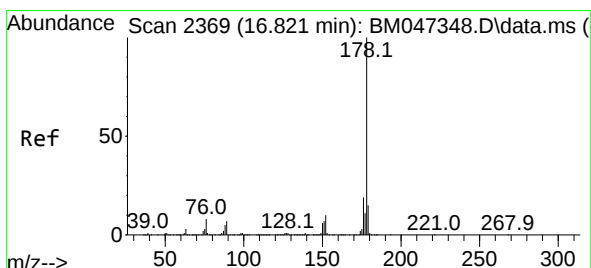
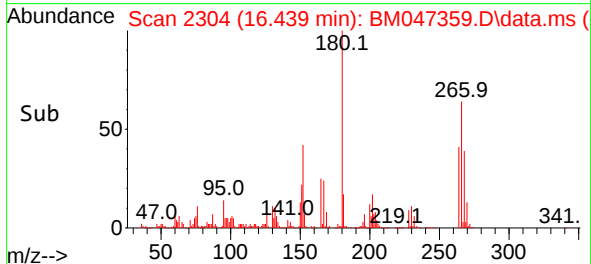
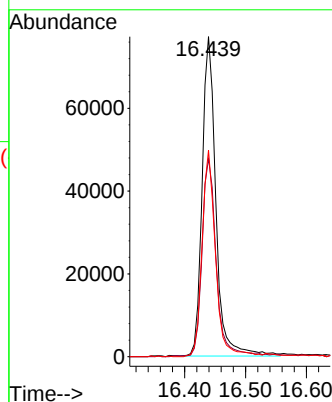
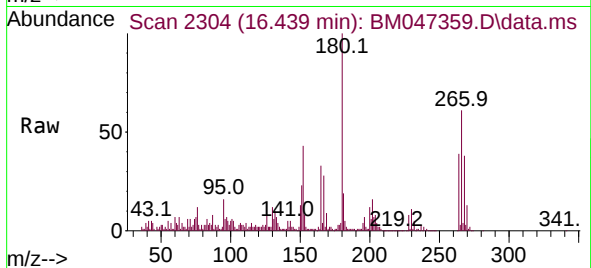
Tgt Ion:266 Resp: 121055

Ion Ratio Lower Upper

266 100

268 61.9 51.0 76.6

264 64.5 51.9 77.9



#71

Phenanthrene

Concen: 26.359 ng

RT: 16.816 min Scan# 2368

Delta R.T. -0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

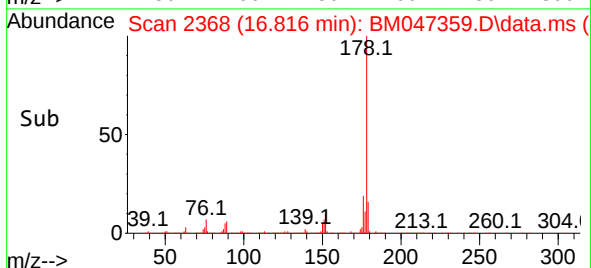
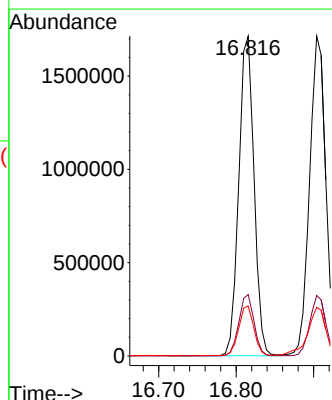
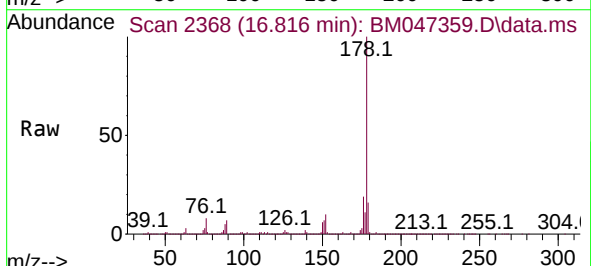
Tgt Ion:178 Resp: 2352272

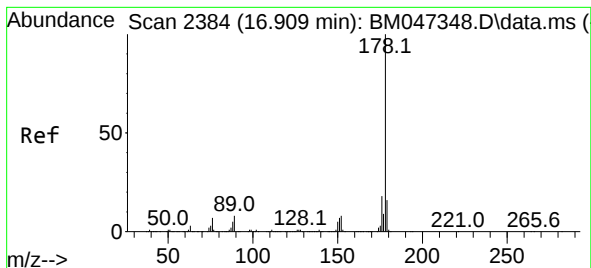
Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.7 12.2 18.4





#72

Anthracene

Concen: 28.461 ng

RT: 16.904 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

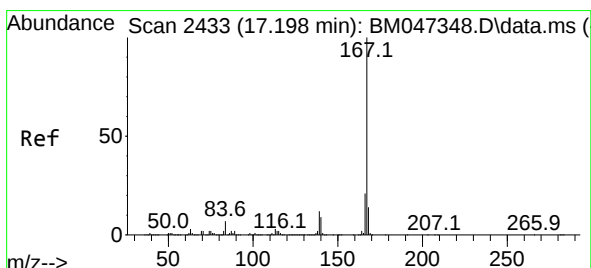
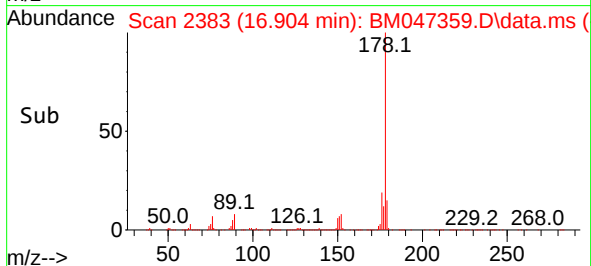
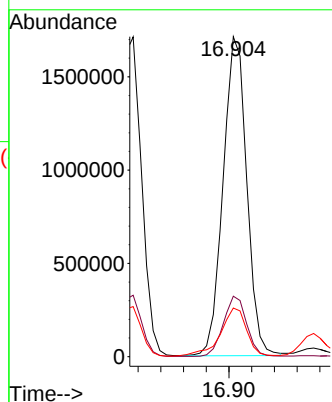
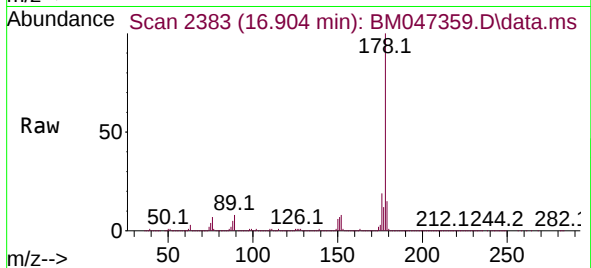
Tgt Ion:178 Resp: 2475903

Ion Ratio Lower Upper

178 100

176 18.9 14.7 22.1

179 15.2 12.6 18.8



#73

Carbazole

Concen: 13.883 ng

RT: 17.192 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

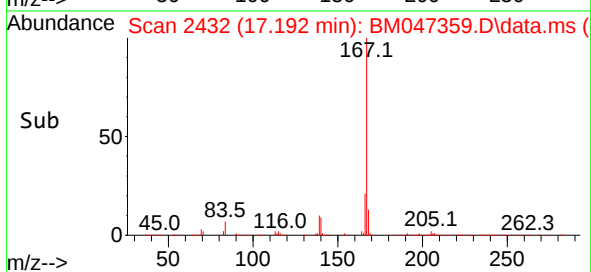
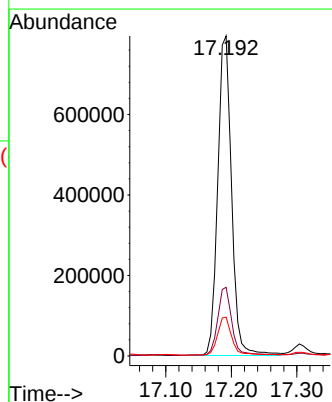
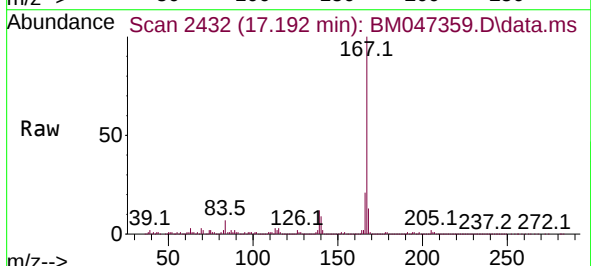
Tgt Ion:167 Resp: 1158949

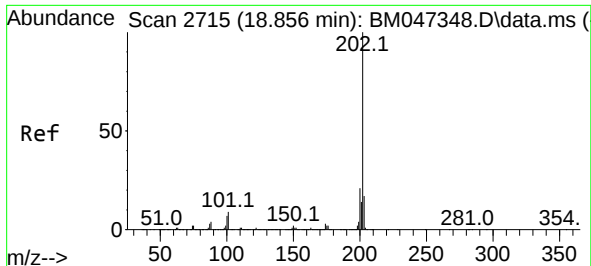
Ion Ratio Lower Upper

167 100

166 21.5 16.9 25.3

139 12.2 9.5 14.3

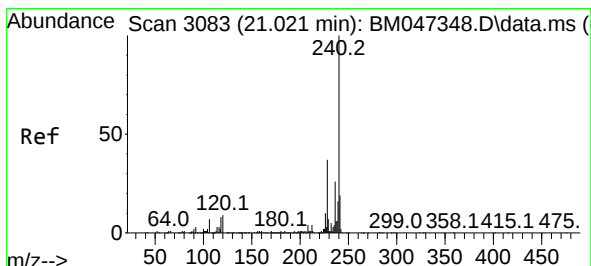
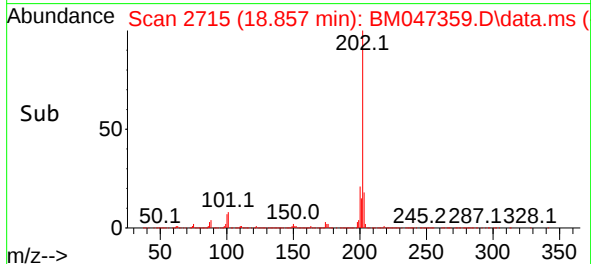
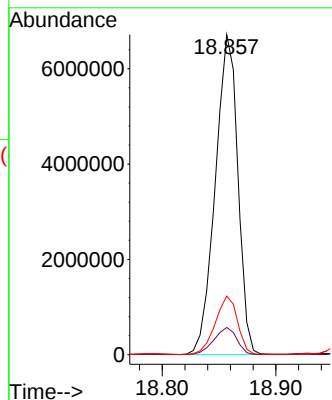
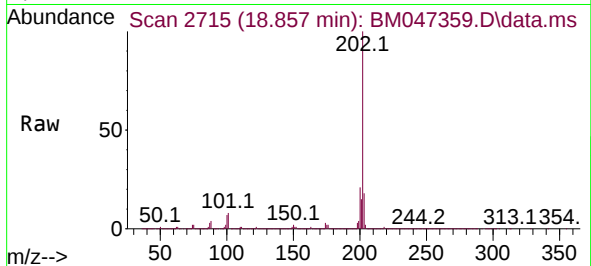




#75
Fluoranthene
Concen: 88.433 ng
RT: 18.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

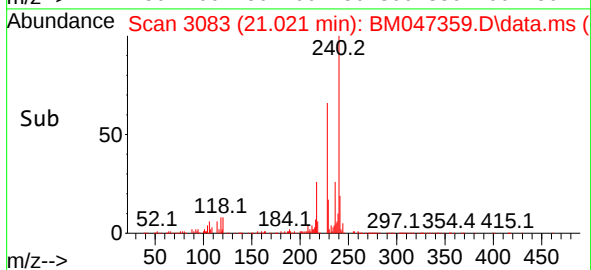
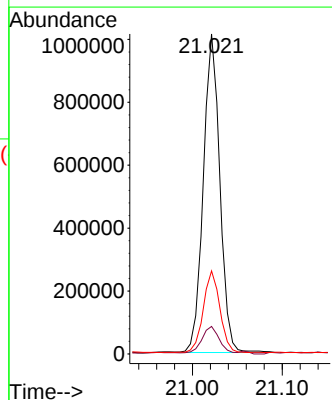
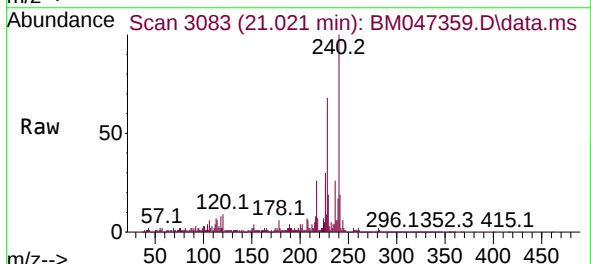
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILE

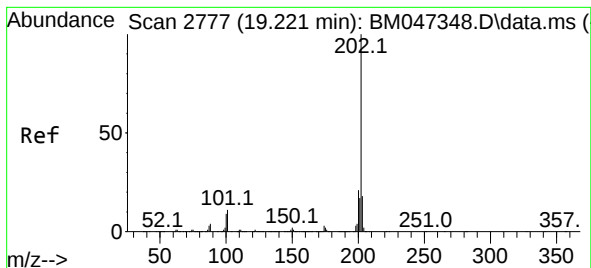
Tgt Ion:202 Resp: 9266386
Ion Ratio Lower Upper
202 100
101 8.5 0.0 29.0
203 18.3 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.021 min Scan# 3083
Delta R.T. 0.000 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion:240 Resp: 1297459
Ion Ratio Lower Upper
240 100
120 8.6 7.4 11.0
236 25.9 20.8 31.2





#78

Pyrene

Concen: 105.332 ng

RT: 19.227 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

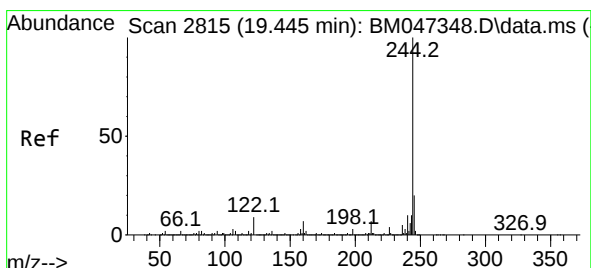
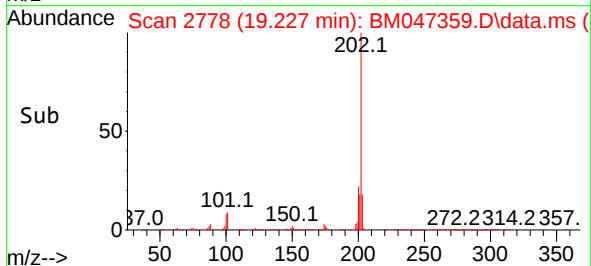
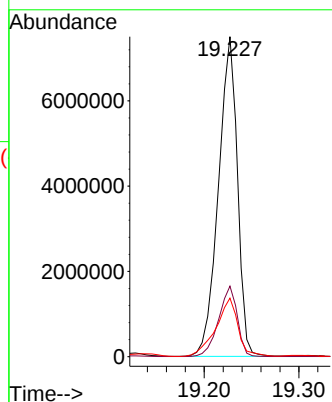
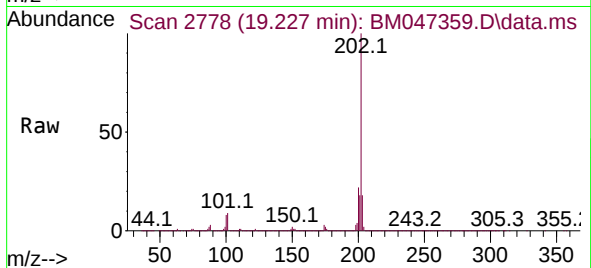
Tgt Ion:202 Resp:10481739

Ion Ratio Lower Upper

202 100

200 22.1 16.7 25.1

203 18.3 14.2 21.4



#79

Terphenyl-d14

Concen: 25.283 ng

RT: 19.439 min Scan# 2814

Delta R.T. -0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

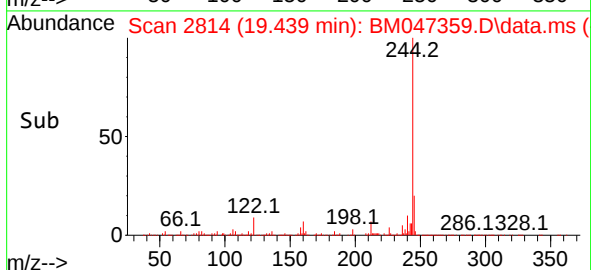
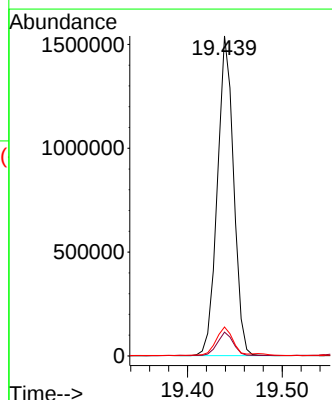
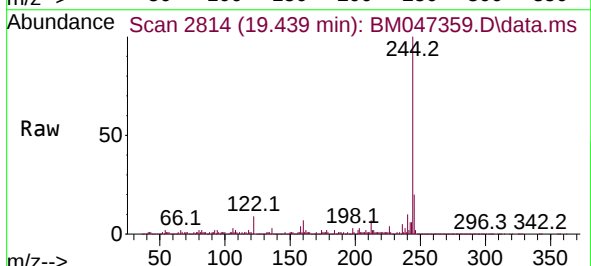
Tgt Ion:244 Resp: 1842967

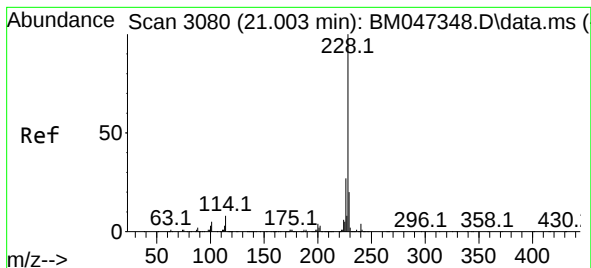
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.1 7.0 10.4





#81

Benzo(a)anthracene

Concen: 49.259 ng

RT: 21.004 min Scan# 3080

Delta R.T. 0.000 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

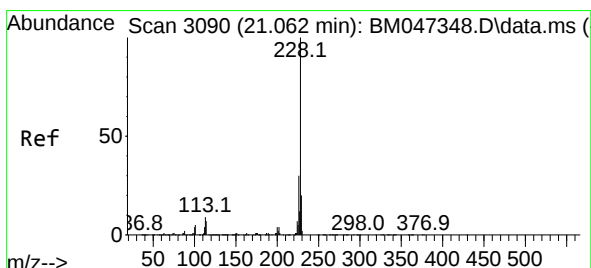
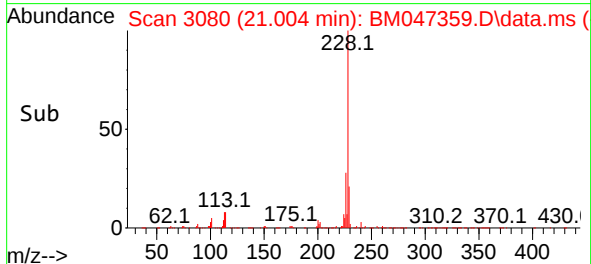
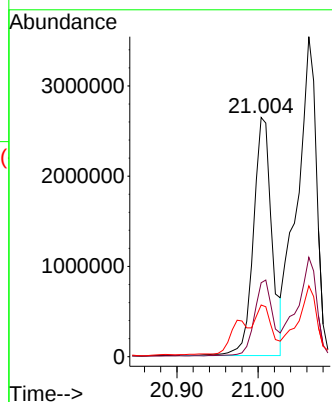
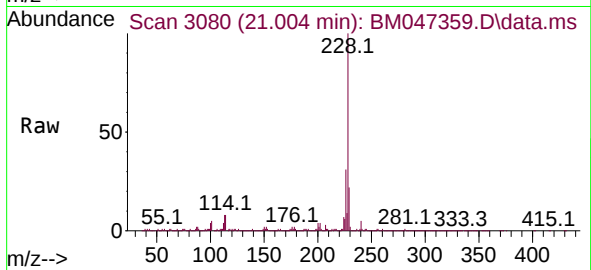
Tgt Ion:228 Resp: 4167911

Ion Ratio Lower Upper

228 100

226 30.9 21.4 32.0

229 21.6 15.8 23.8



#83

Chrysene

Concen: 74.229 ng

RT: 21.062 min Scan# 3090

Delta R.T. 0.000 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

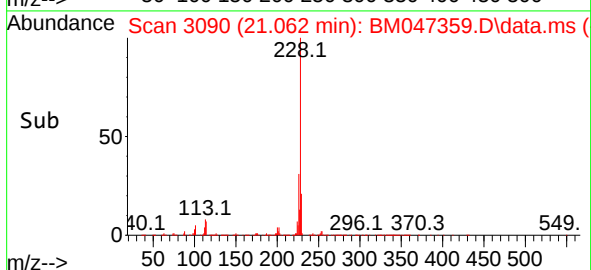
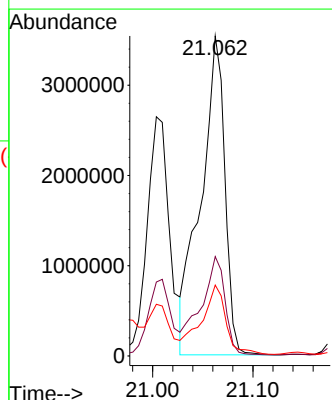
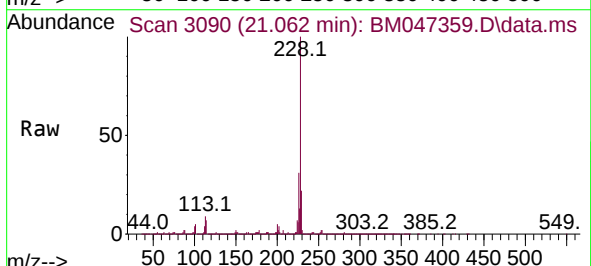
Tgt Ion:228 Resp: 5907990

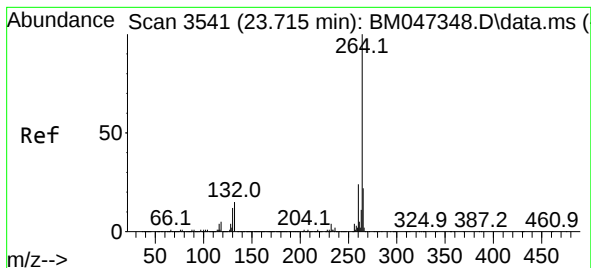
Ion Ratio Lower Upper

228 100

226 31.1 24.0 36.0

229 22.2 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.715 min Scan# 3

Delta R.T. 0.000 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

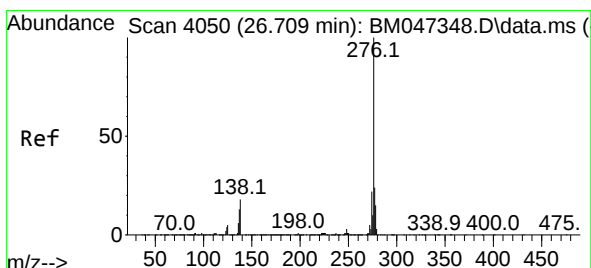
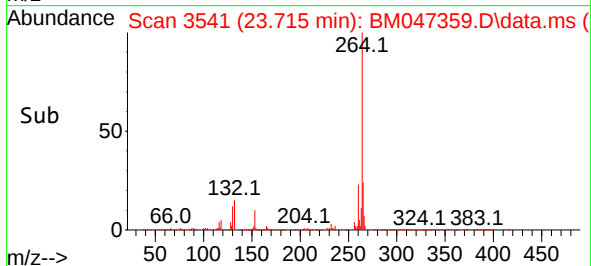
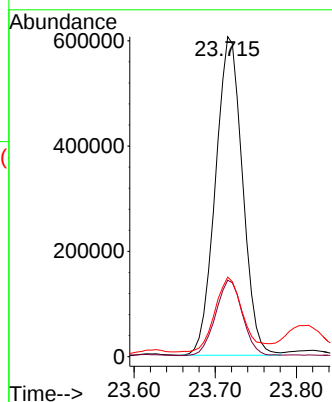
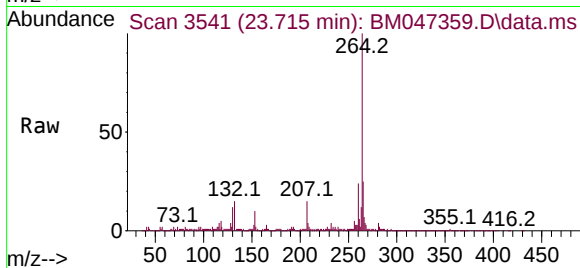
Tgt Ion:264 Resp: 1400680

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 24.9 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.583 ng

RT: 26.715 min Scan# 4051

Delta R.T. 0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

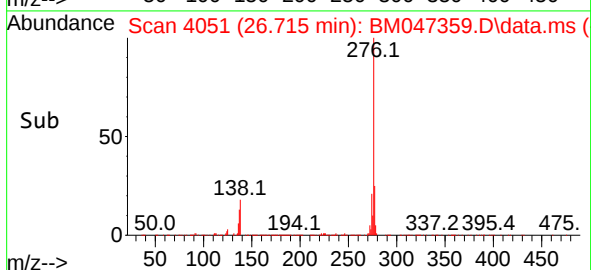
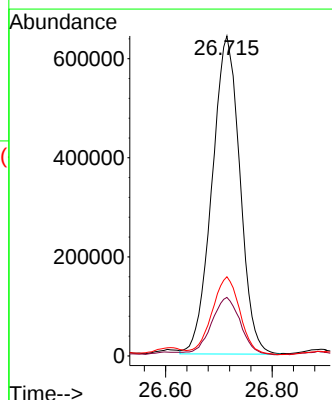
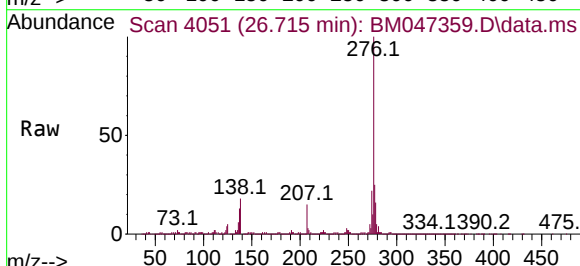
Tgt Ion:276 Resp: 2330829

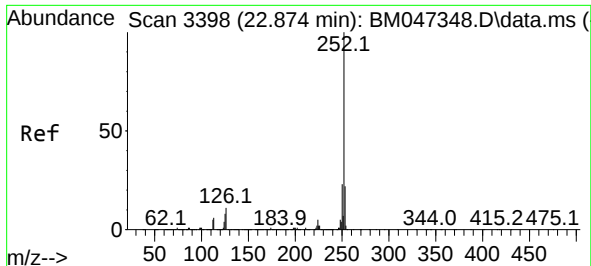
Ion Ratio Lower Upper

276 100

138 18.5 17.7 26.5

277 24.6 20.0 30.0

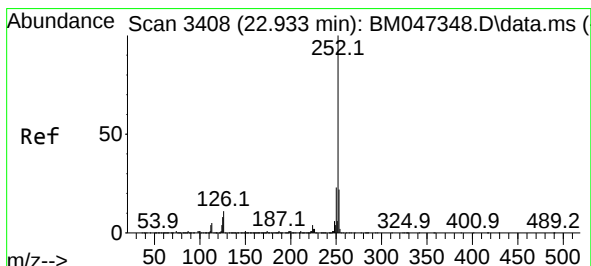
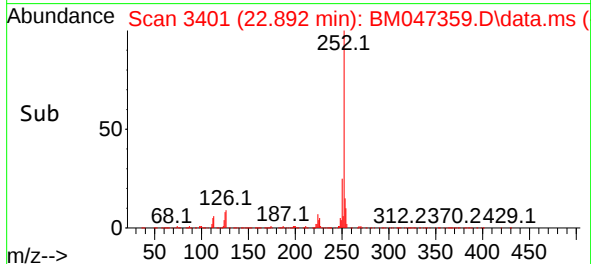
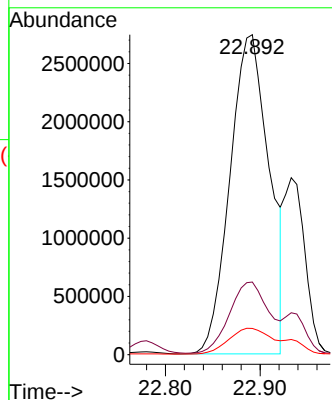
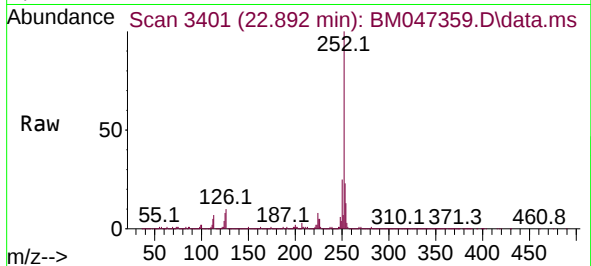




#88
Benzo(b)fluoranthene
Concen: 96.415 ng
RT: 22.892 min Scan# 3401
Delta R.T. 0.018 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

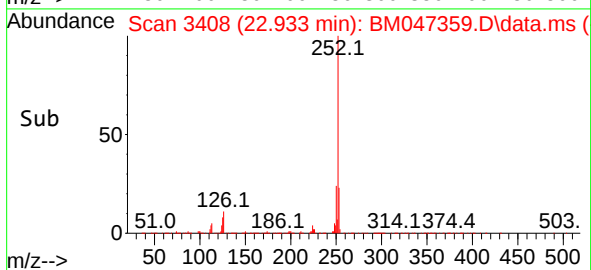
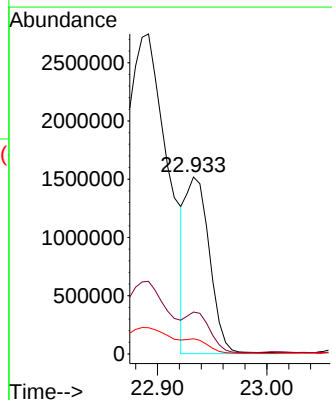
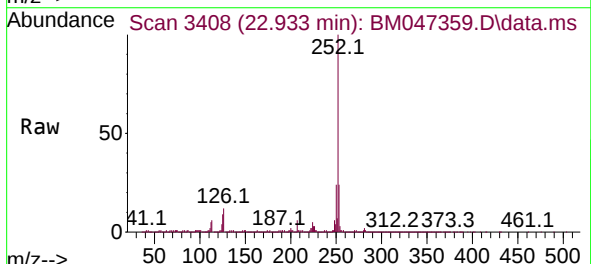
Instrument :
BNA_M
ClientSampleId :
MOO-SOIL-PILE

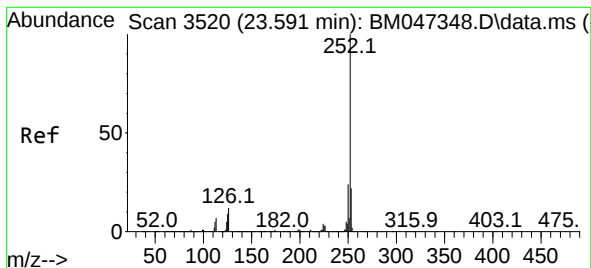
Tgt Ion:252 Resp: 7878905
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 8.2 6.6 10.0



#89
Benzo(k)fluoranthene
Concen: 29.775 ng m
RT: 22.933 min Scan# 3408
Delta R.T. 0.000 min
Lab File: BM047359.D
Acq: 27 Aug 2024 11:57

Tgt Ion:252 Resp: 2306556
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 8.6 6.6 9.8





#90

Benzo(a)pyrene

Concen: 40.786 ng

RT: 23.598 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

Instrument :

BNA_M

ClientSampleId :

MOO-SOIL-PILE

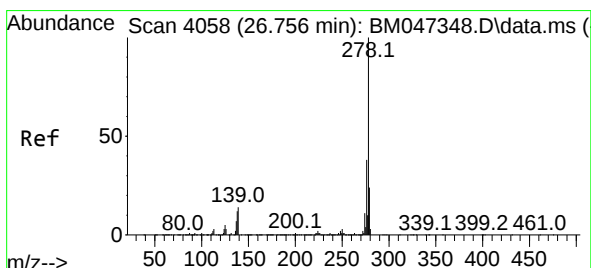
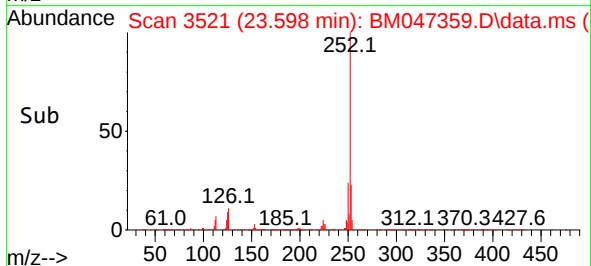
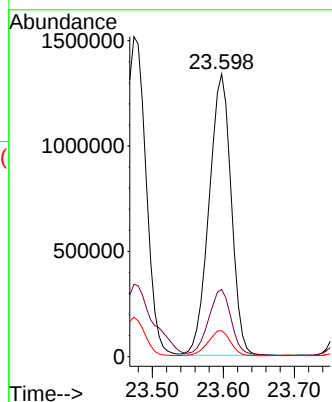
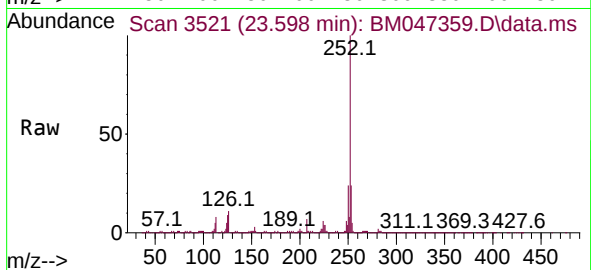
Tgt Ion:252 Resp: 2882329

Ion Ratio Lower Upper

252 100

253 23.8 17.7 26.5

125 9.2 7.4 11.2



#91

Dibenzo(a,h)anthracene

Concen: 8.211 ng

RT: 26.739 min Scan# 4055

Delta R.T. -0.017 min

Lab File: BM047359.D

Acq: 27 Aug 2024 11:57

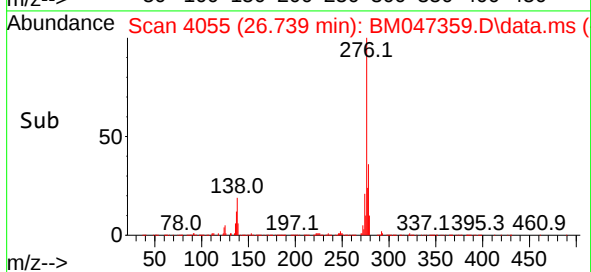
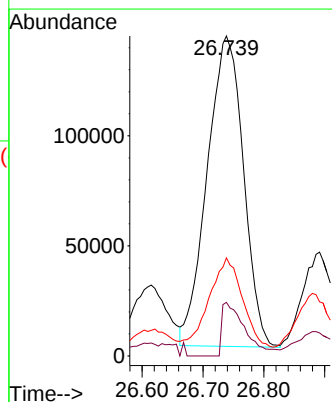
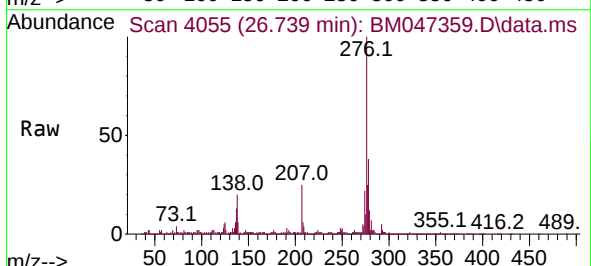
Tgt Ion:278 Resp: 583237

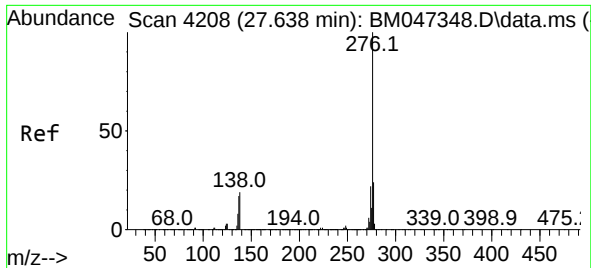
Ion Ratio Lower Upper

278 100

139 16.7 11.1 16.7#

279 30.7 19.2 28.8#





#92
 Benzo(g,h,i)perylene
 Concen: 27.763 ng
 RT: 27.644 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: BM047359.D
 Acq: 27 Aug 2024 11:57

Instrument :
 BNA_M
 ClientSampleId :
 MOO-SOIL-PILE

Tgt Ion:276 Resp: 2050179

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.4	29.0
138	18.8	15.0	22.6

