

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049970.D
 Acq On : 18 Apr 2025 17:45
 Operator : RC/JU
 Sample : Q1826-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILE

Quant Time: Apr 18 18:46:54 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)

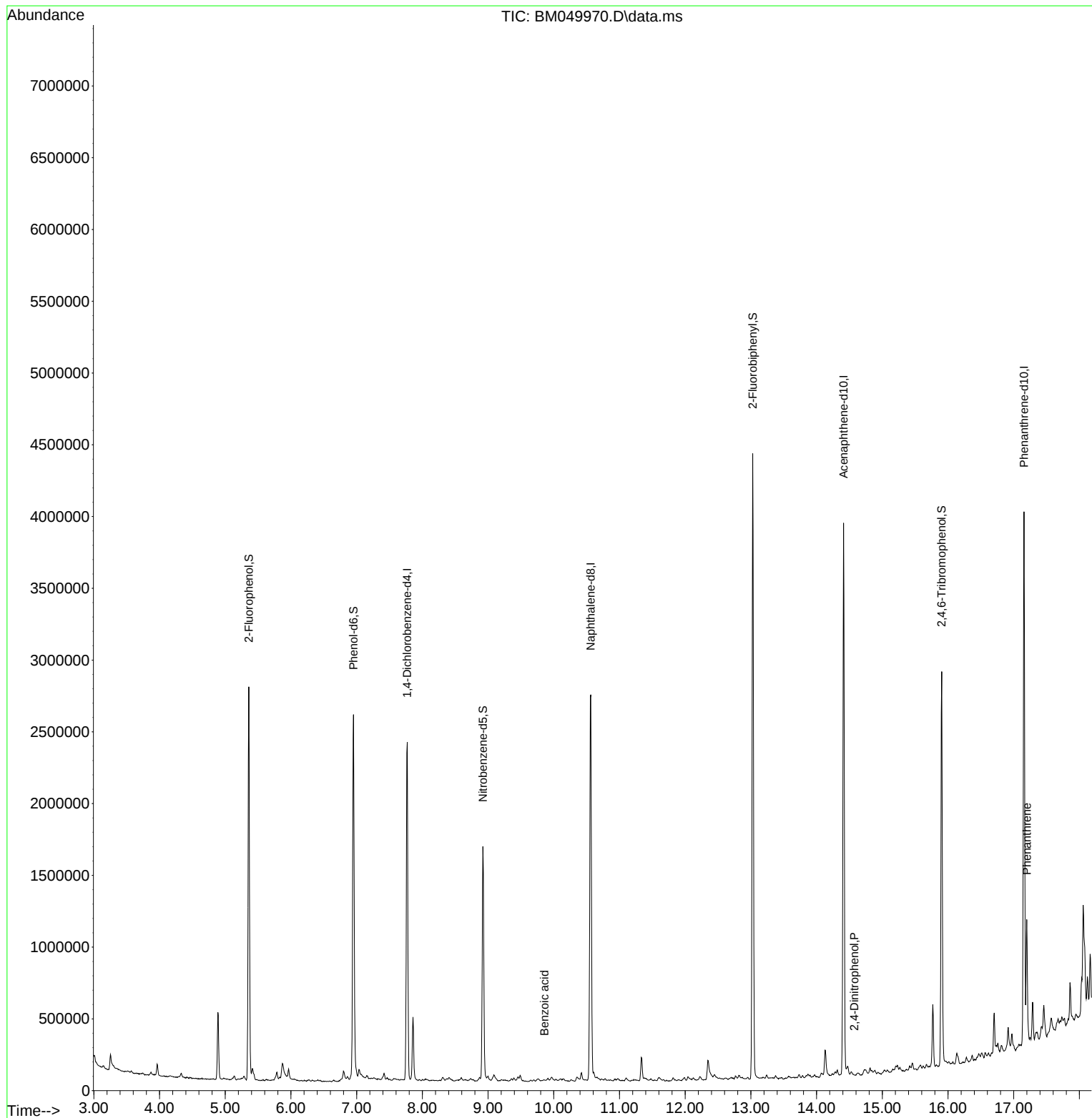
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	708487	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2385213	20.000	ng	-0.01
39) Acenaphthene-d10	14.410	164	1394344	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	2263438	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1920061	20.000	ng	0.00
86) Perylene-d12	24.403	264	2049583	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1239150	29.699	ng	0.00
7) Phenol-d6	6.952	99	1592094	30.670	ng	0.00
23) Nitrobenzene-d5	8.922	82	967114	22.578	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	577871	28.493	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	2392900	23.271	ng	-0.02
79) Terphenyl-d14	19.780	244	2179780	21.275	ng	-0.01
Target Compounds						
					Qvalue	
32) Benzoic acid	9.857	122	5678	8.690	ng	# 76
54) 2,4-Dinitrophenol	14.575	184	56	7.228	ng	# 1
71) Phenanthrene	17.198	178	532507	4.291	ng	100
75) Fluoranthene	19.216	202	1486099	9.740	ng	100
78) Pyrene	19.580	202	1780812	13.458	ng	99
81) Benzo(a)anthracene	21.380	228	963959	7.554	ng	97
83) Chrysene	21.439	228	889671	7.333	ng	97
84) Bis(2-ethylhexyl)phtha...	21.298	149	336280	4.642	ng	99
87) Indeno(1,2,3-cd)pyrene	27.791	276	627337	4.106	ng	97
88) Benzo(b)fluoranthene	23.456	252	1152752	8.806	ng	# 95
89) Benzo(k)fluoranthene	23.456	252	1152752	9.087	ng	# 95
90) Benzo(a)pyrene	24.256	252	924819	8.040	ng	# 96
92) Benzo(g,h,i)perylene	28.850	276	687224	5.344	ng	97

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

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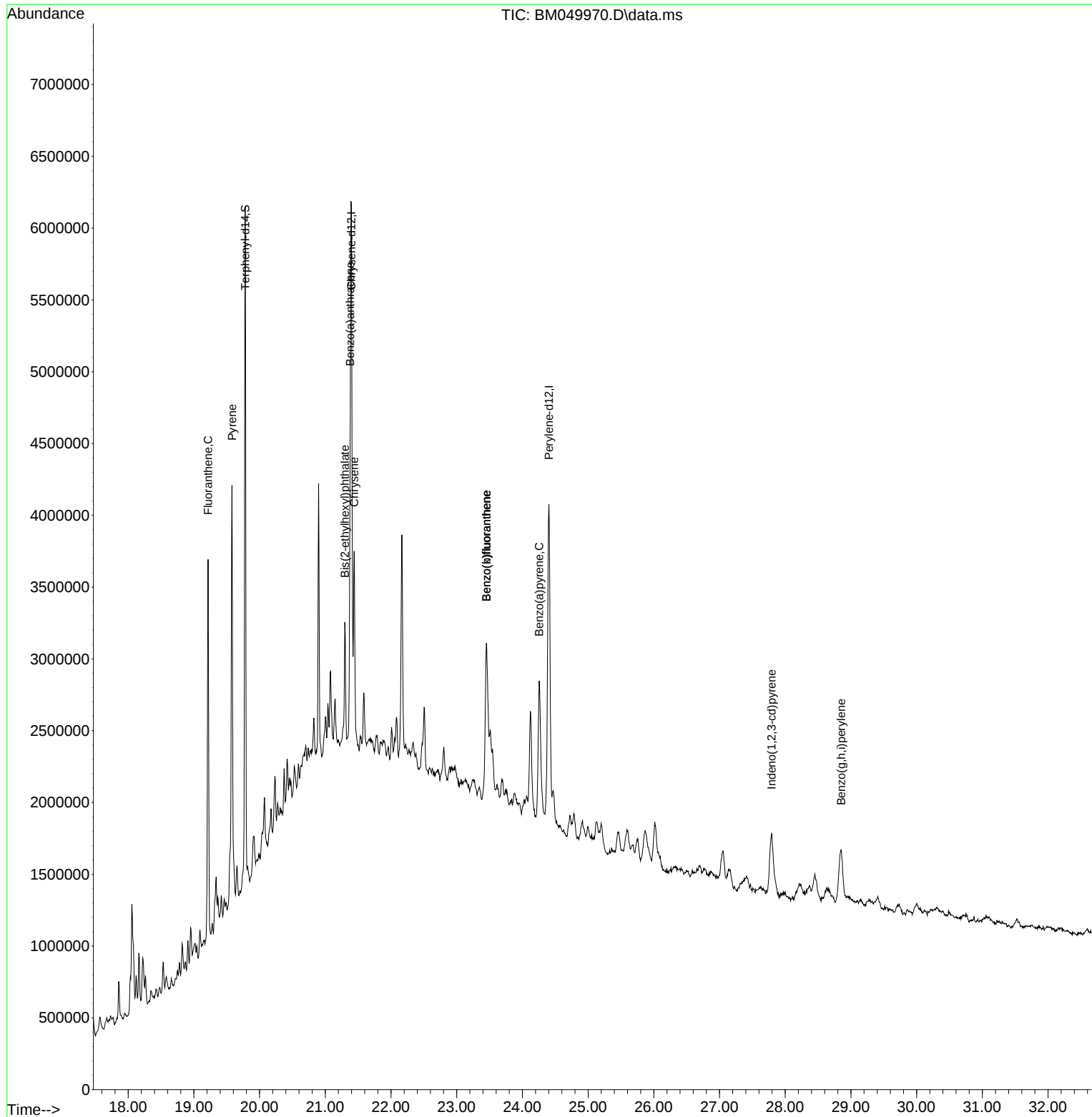
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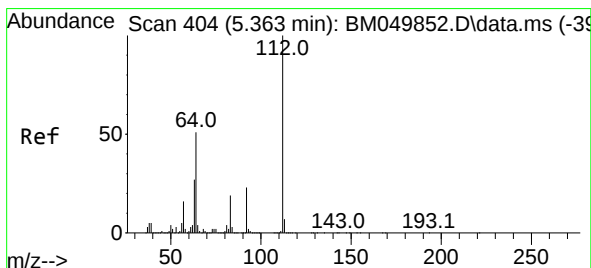
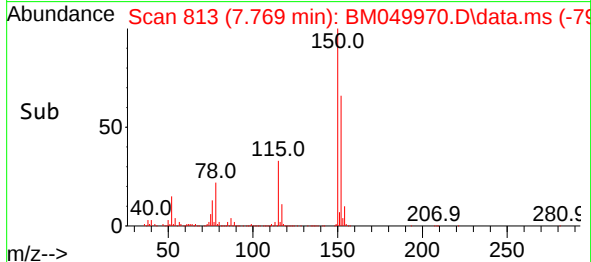
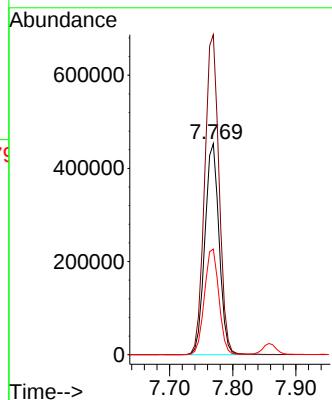
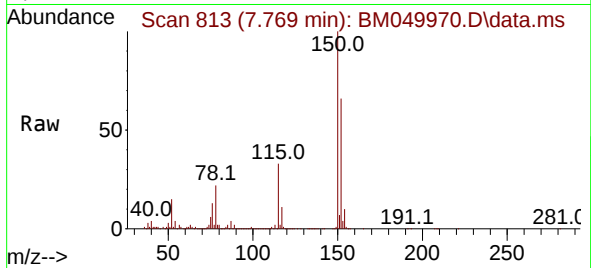




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

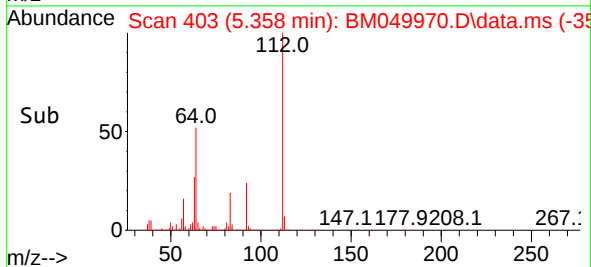
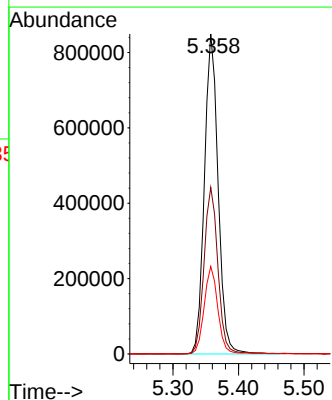
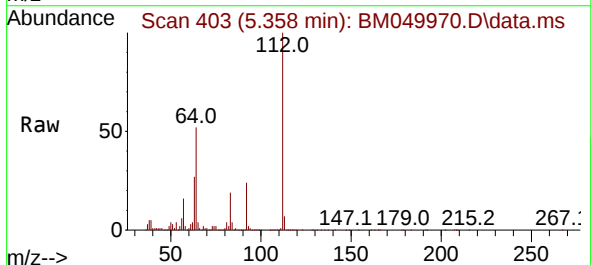
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

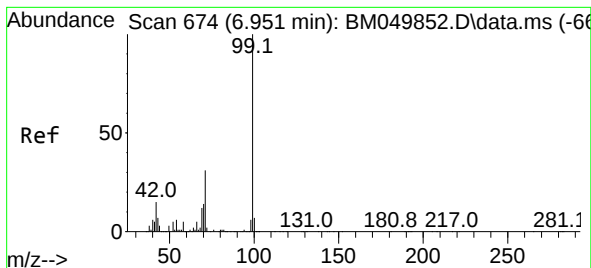
Tgt Ion:152 Resp: 708487
Ion Ratio Lower Upper
152 100
150 151.7 124.3 186.5
115 50.1 41.1 61.7



#5
2-Fluorophenol
Concen: 29.699 ng
RT: 5.358 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:112 Resp: 1239150
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 27.4 21.5 32.3





#7

Phenol-d6

Concen: 30.670 ng

RT: 6.952 min Scan# 61

Delta R.T. 0.000 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

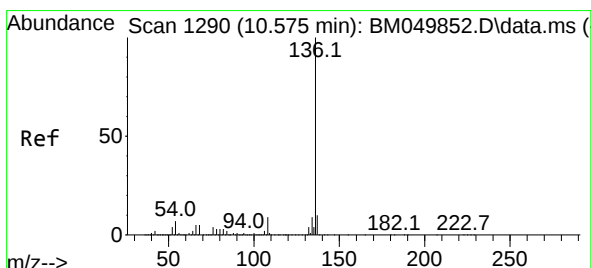
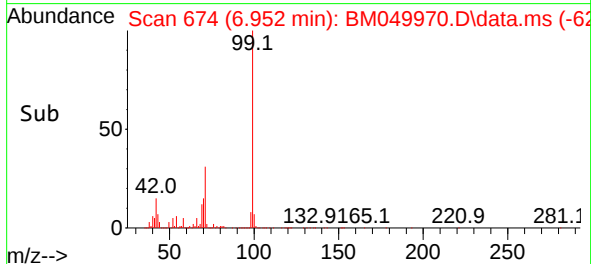
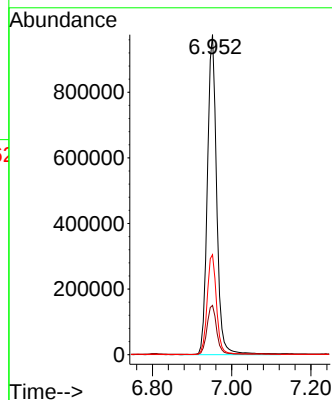
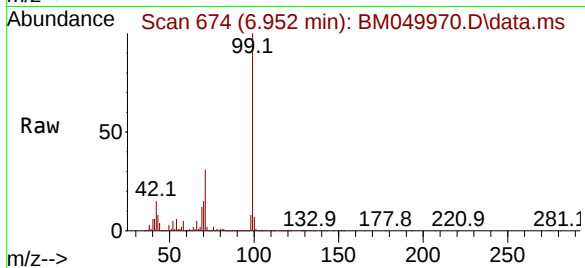
BNA_M

ClientSampleId :

SOIL-PILE

Tgt Ion: 99 Resp: 1592094

Ion	Ratio	Lower	Upper
99	100		
42	15.4	12.1	18.1
71	31.2	24.9	37.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.563 min Scan# 1288

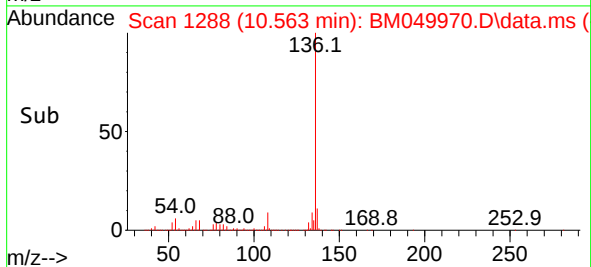
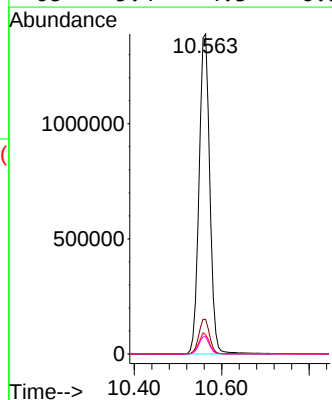
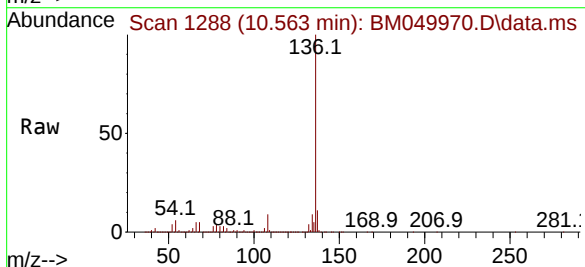
Delta R.T. -0.011 min

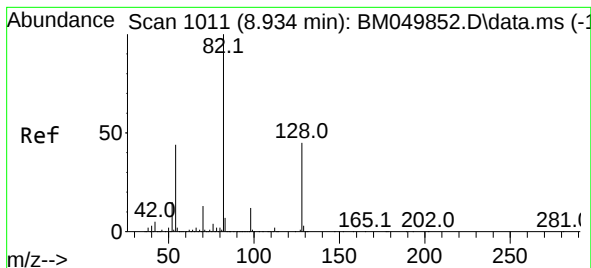
Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Tgt Ion: 136 Resp: 2385213

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.4	12.6
54	6.0	5.3	7.9
68	5.4	4.3	6.5





#23

Nitrobenzene-d5

Concen: 22.578 ng

RT: 8.922 min Scan# 1109

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

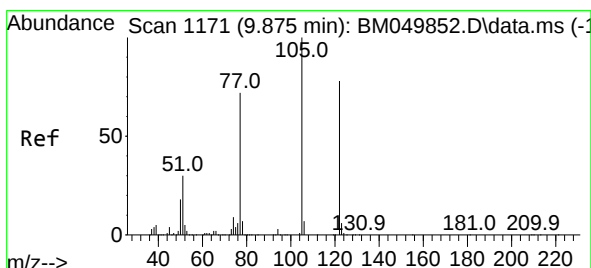
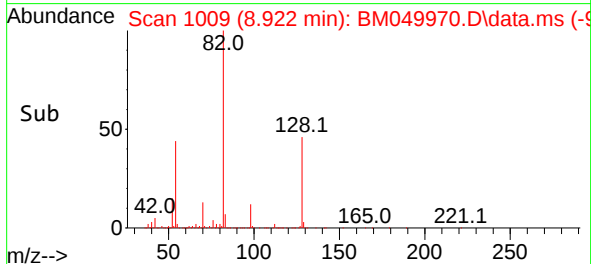
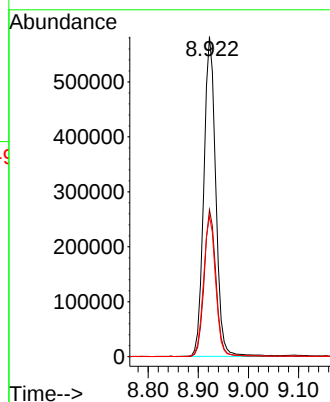
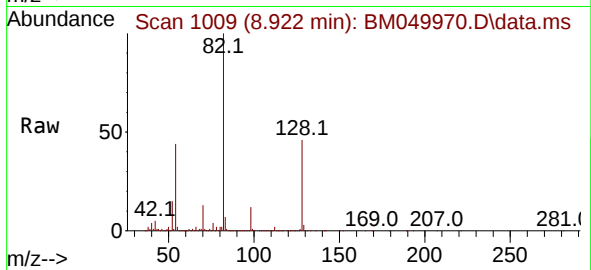
Tgt Ion: 82 Resp: 967114

Ion Ratio Lower Upper

82 100

128 45.9 36.2 54.2

54 43.9 35.0 52.6



#32

Benzoic acid

Concen: 8.690 ng

RT: 9.857 min Scan# 1168

Delta R.T. -0.018 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

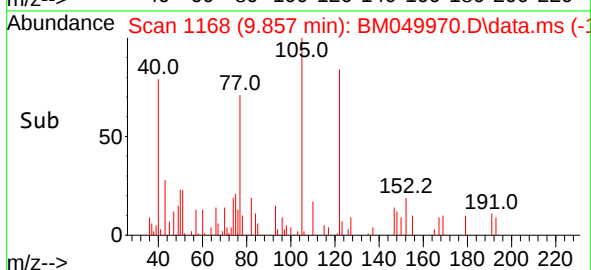
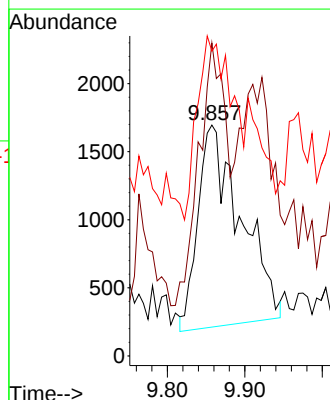
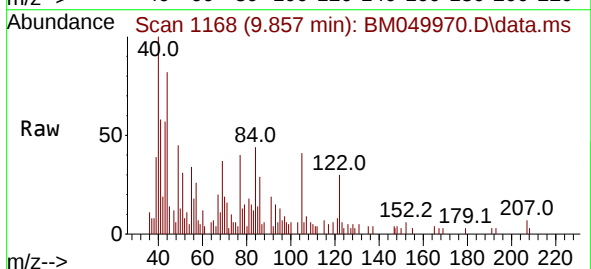
Tgt Ion:122 Resp: 5678

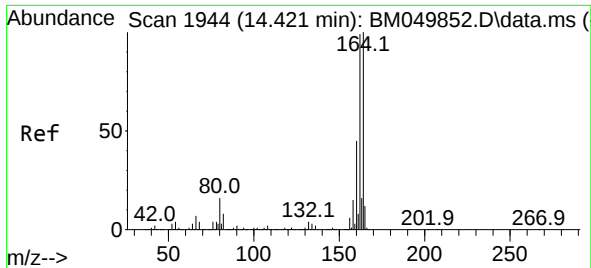
Ion Ratio Lower Upper

122 100

105 135.6 103.8 143.8

77 132.0 70.7 110.7#

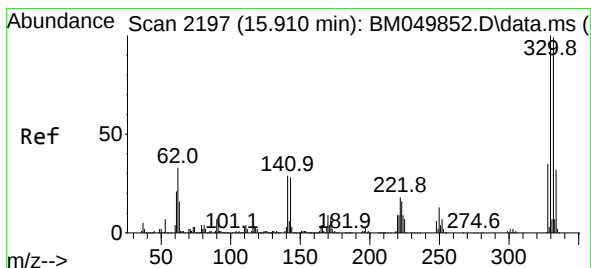
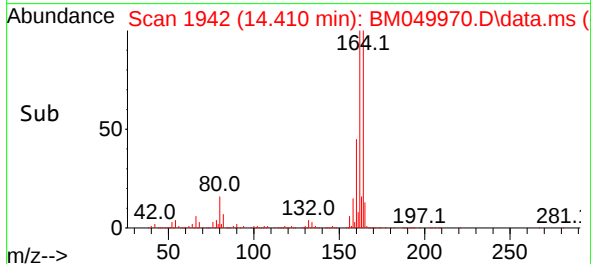
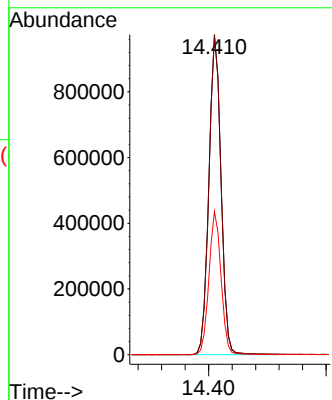
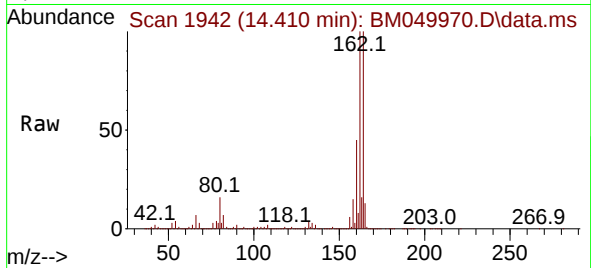




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

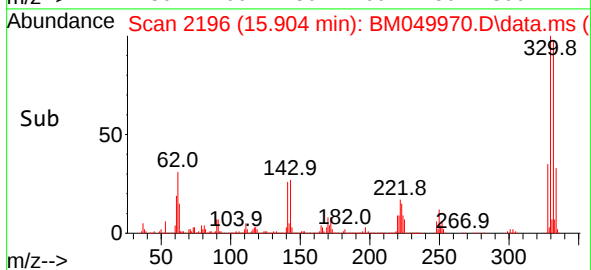
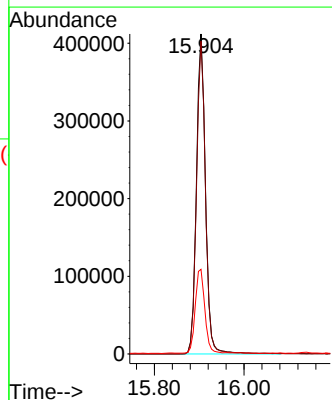
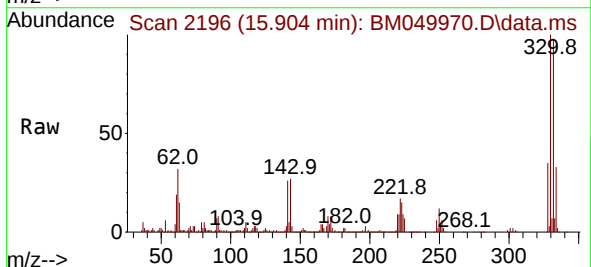
Instrument :
BNA_M
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SOIL-PILE

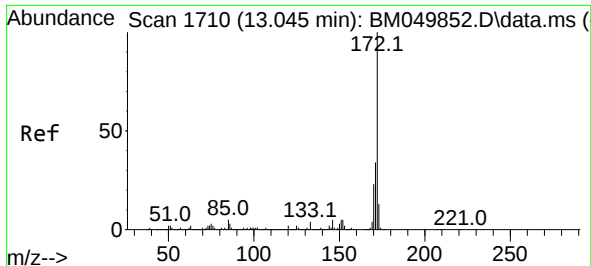
Tgt Ion:164 Resp: 1394344
Ion Ratio Lower Upper
164 100
162 99.6 79.4 119.0
160 44.7 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 28.493 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:330 Resp: 577871
Ion Ratio Lower Upper
330 100
332 96.7 78.0 117.0
141 27.7 23.5 35.3

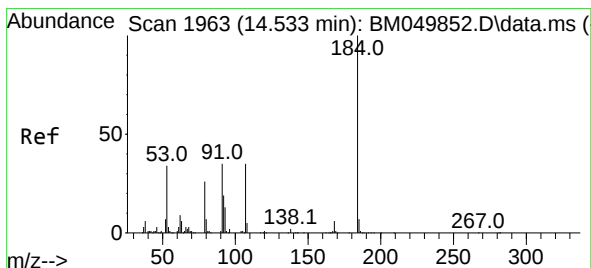
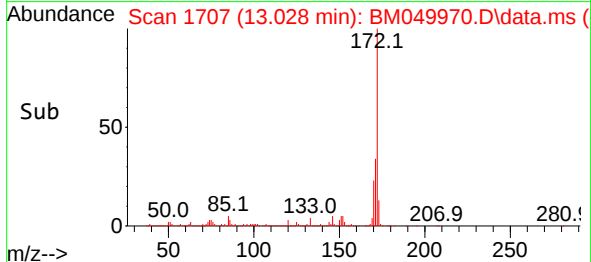
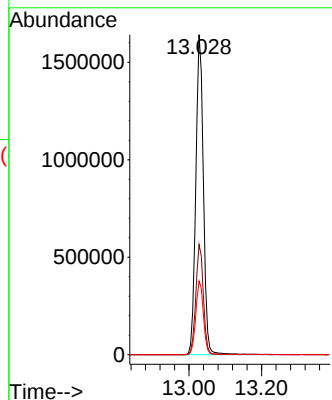
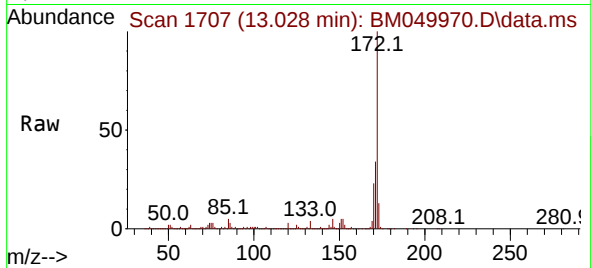




#45
2-Fluorobiphenyl
Concen: 23.271 ng
RT: 13.028 min Scan# 1710
Delta R.T. -0.017 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

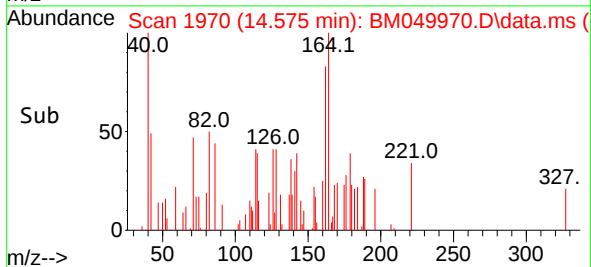
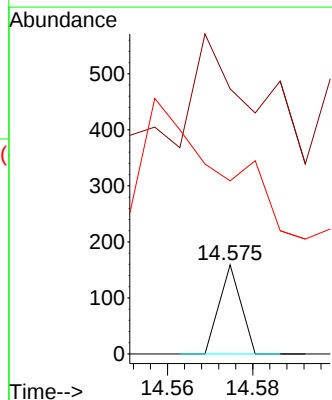
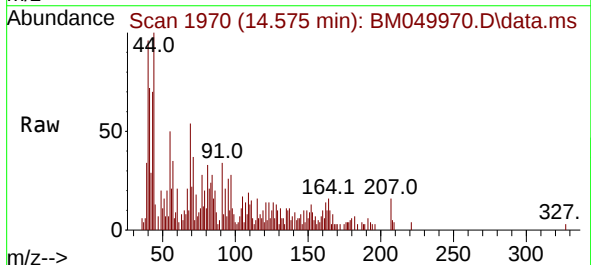
Instrument :
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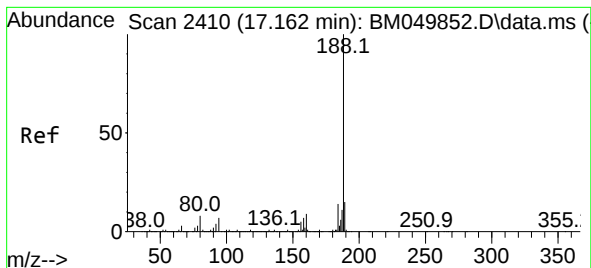
Tgt Ion:172 Resp: 2392900
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.2
170 23.0 18.6 28.0



#54
2,4-Dinitrophenol
Concen: 7.228 ng
RT: 14.575 min Scan# 1970
Delta R.T. 0.042 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:184 Resp: 56
Ion Ratio Lower Upper
184 100
63 297.5 38.4 57.6#
154 194.3 48.1 72.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

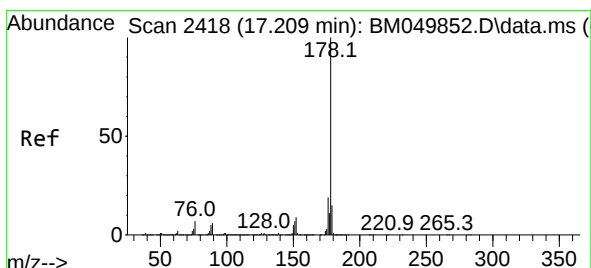
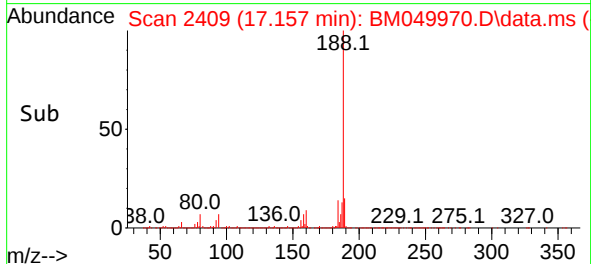
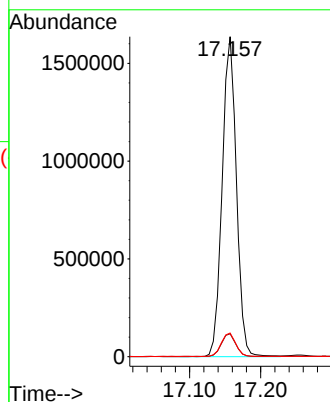
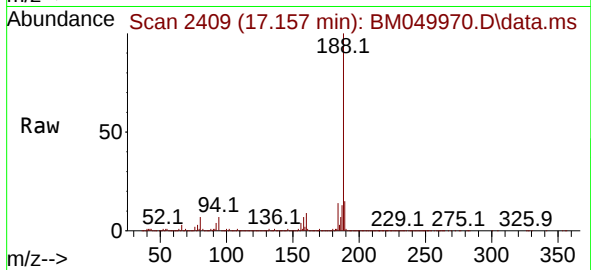
Tgt Ion:188 Resp: 2263438

Ion Ratio Lower Upper

188 100

94 7.2 5.8 8.6

80 7.4 6.4 9.6



#71

Phenanthrene

Concen: 4.291 ng

RT: 17.198 min Scan# 2416

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

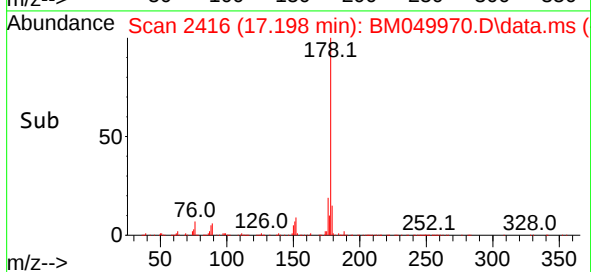
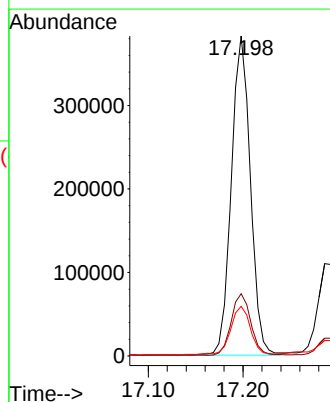
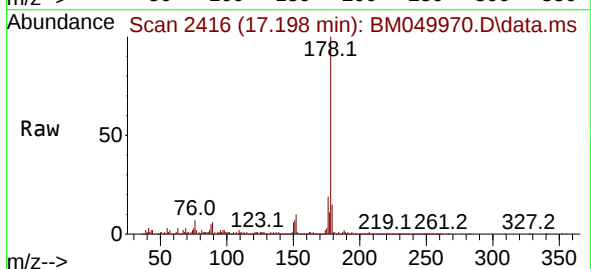
Tgt Ion:178 Resp: 532507

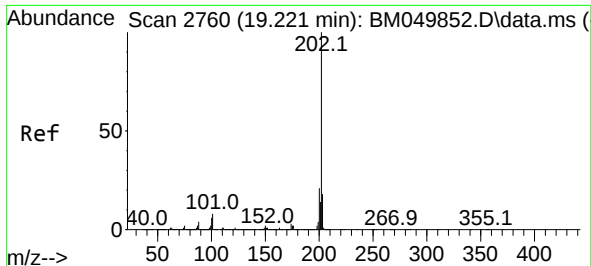
Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.5 12.3 18.5

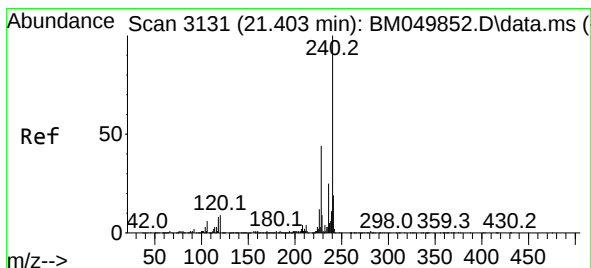
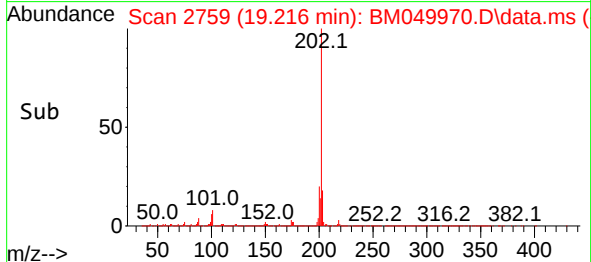
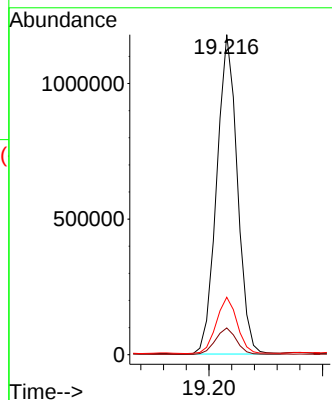
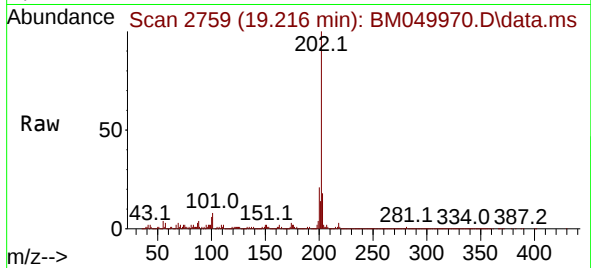




#75
Fluoranthene
Concen: 9.740 ng
RT: 19.216 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

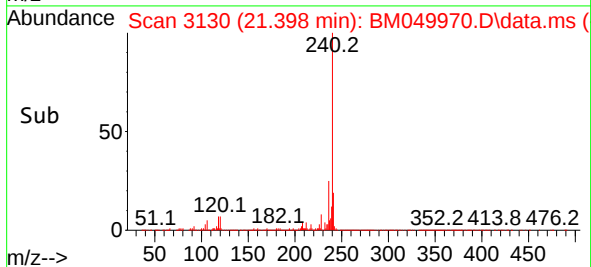
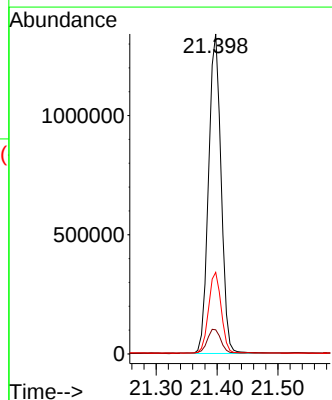
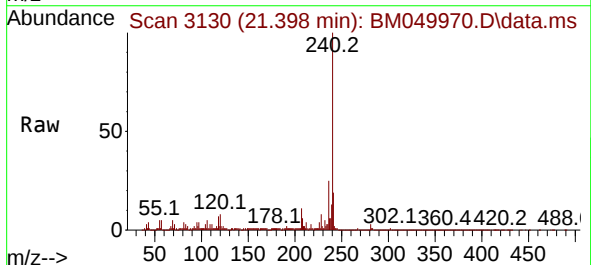
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

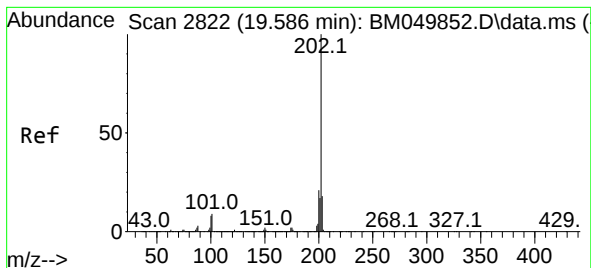
Tgt Ion:202 Resp: 1486099
Ion Ratio Lower Upper
202 100
101 8.4 0.0 28.4
203 18.0 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:240 Resp: 1920061
Ion Ratio Lower Upper
240 100
120 7.6 6.9 10.3
236 25.5 20.4 30.6





#78

Pyrene

Concen: 13.458 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

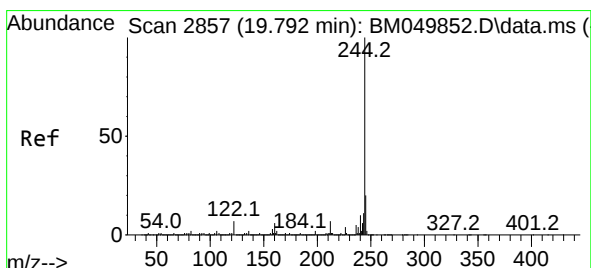
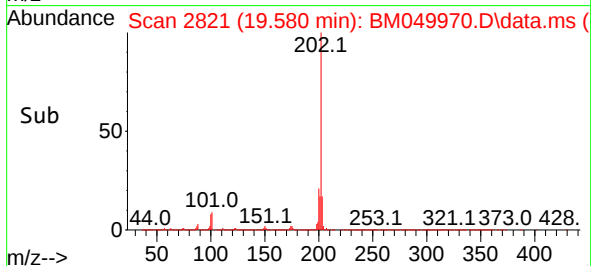
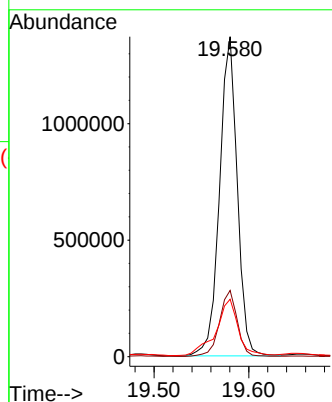
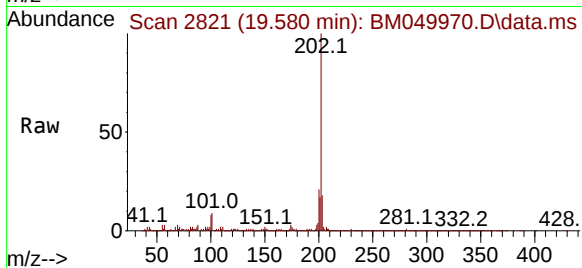
Tgt Ion:202 Resp: 1780812

Ion Ratio Lower Upper

202 100

200 20.7 16.5 24.7

203 17.9 14.0 21.0



#79

Terphenyl-d14

Concen: 21.275 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

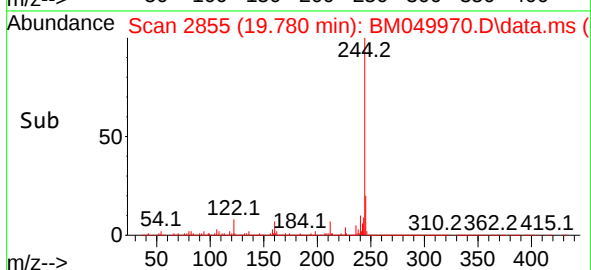
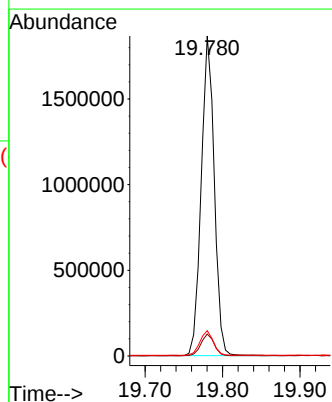
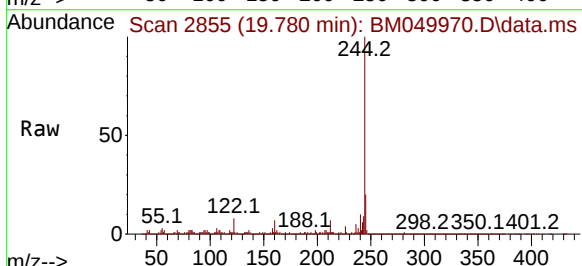
Tgt Ion:244 Resp: 2179780

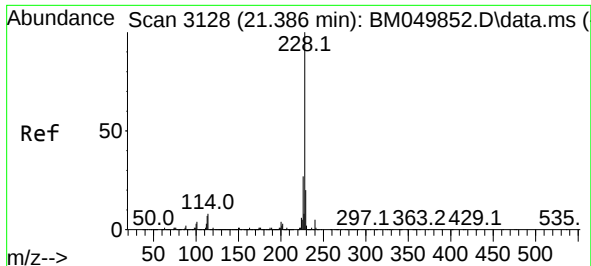
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 7.9 5.4 8.0

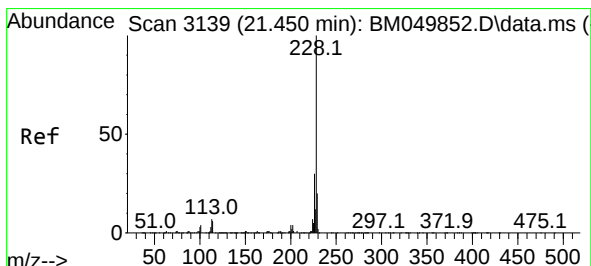
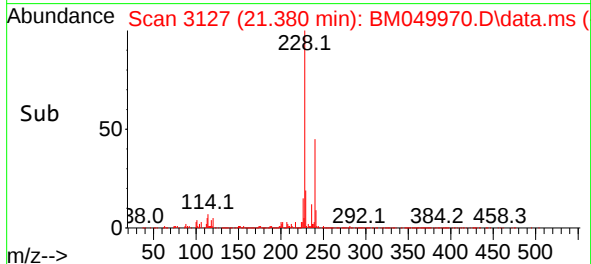
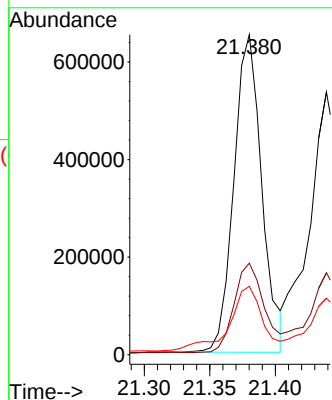
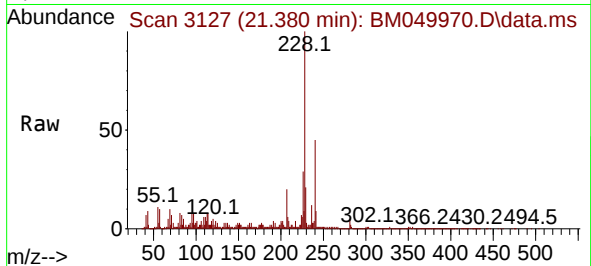




#81
Benzo(a)anthracene
Concen: 7.554 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

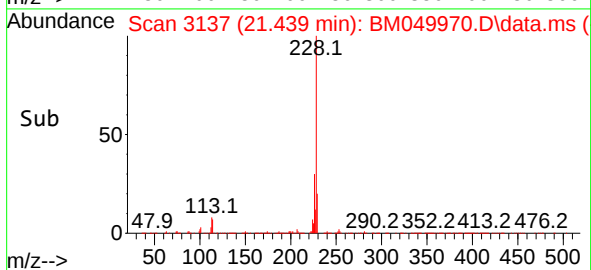
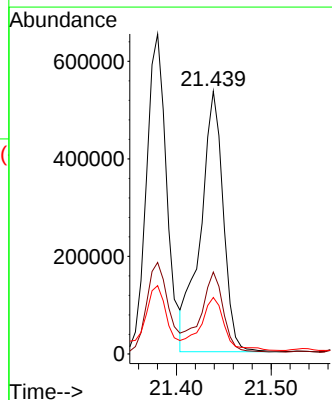
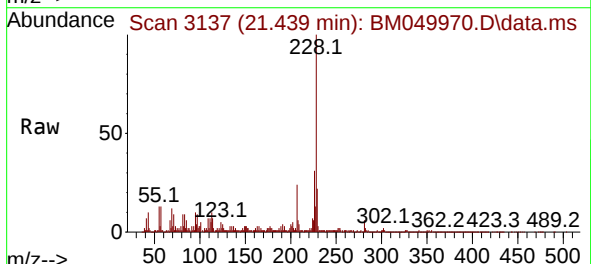
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

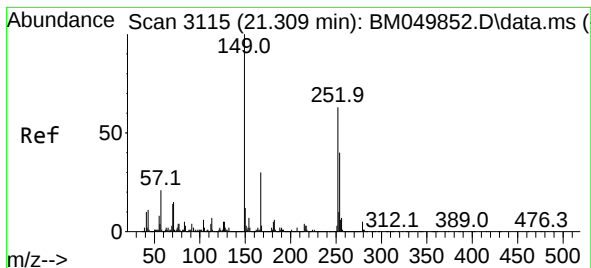
Tgt Ion:228 Resp: 963959
Ion Ratio Lower Upper
228 100
226 28.6 21.8 32.8
229 21.4 15.8 23.8



#83
Chrysene
Concen: 7.333 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:228 Resp: 889671
Ion Ratio Lower Upper
228 100
226 31.2 24.1 36.1
229 21.5 15.8 23.6

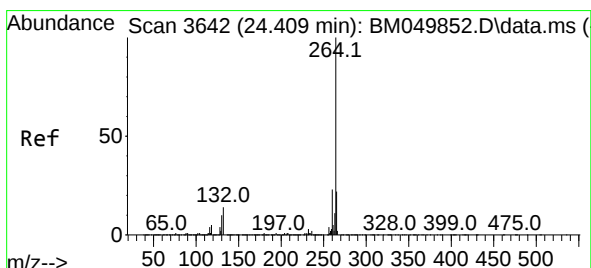
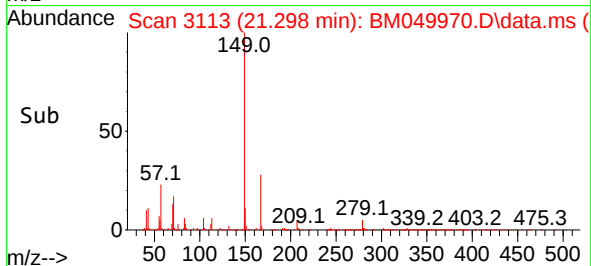
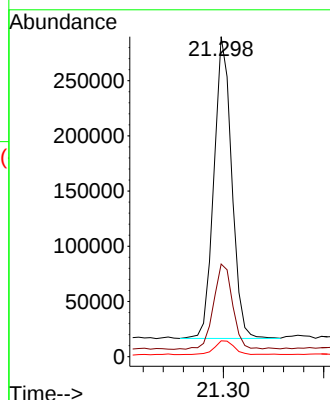
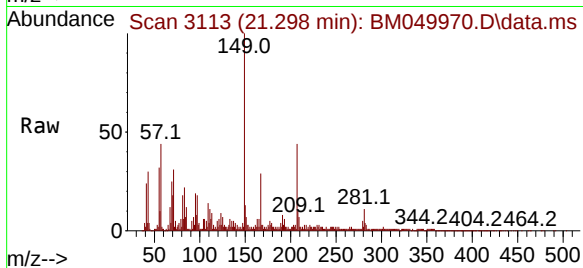




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.642 ng
RT: 21.298 min Scan# 3115
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

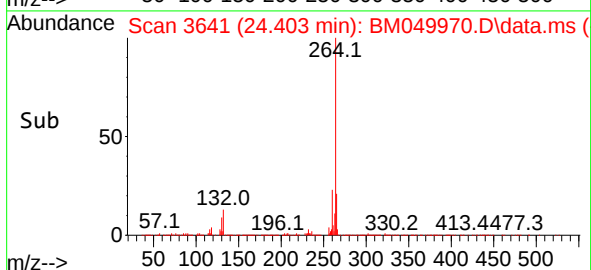
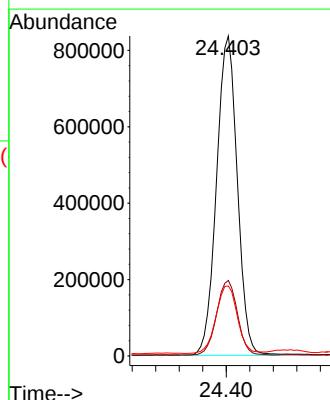
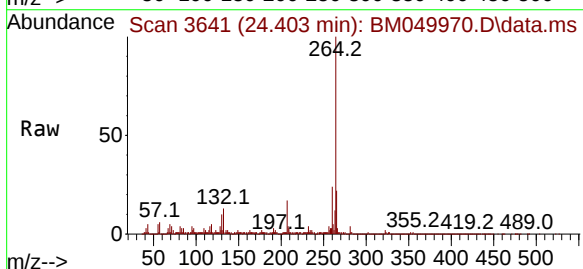
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

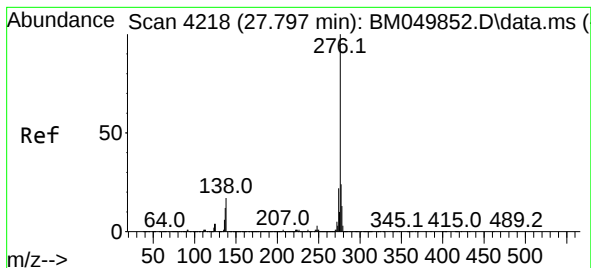
Tgt Ion:149 Resp: 336280
Ion Ratio Lower Upper
149 100
167 28.9 23.8 35.6
279 5.0 3.8 5.8



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.403 min Scan# 3641
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:264 Resp: 2049583
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 21.8 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.106 ng

RT: 27.791 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

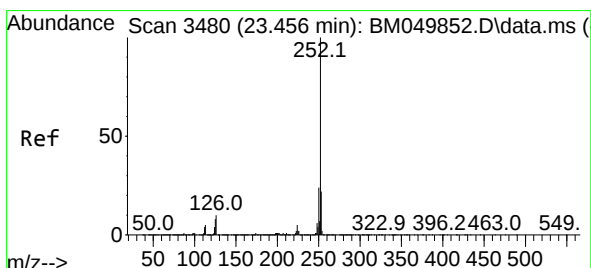
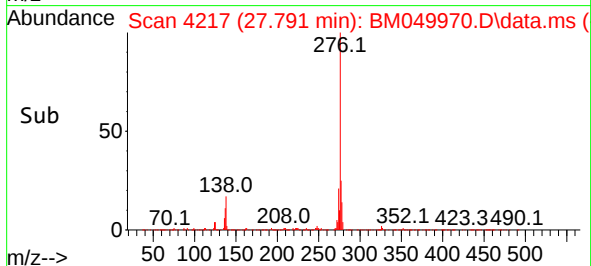
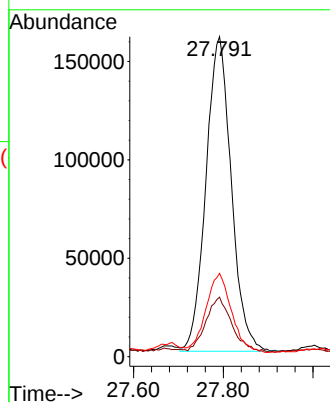
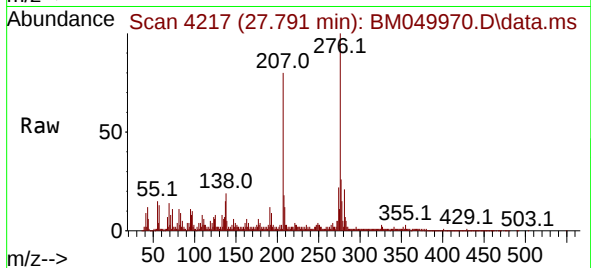
Tgt Ion:276 Resp: 627337

Ion Ratio Lower Upper

276 100

138 18.2 16.8 25.2

277 25.5 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 8.806 ng

RT: 23.456 min Scan# 3480

Delta R.T. 0.000 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

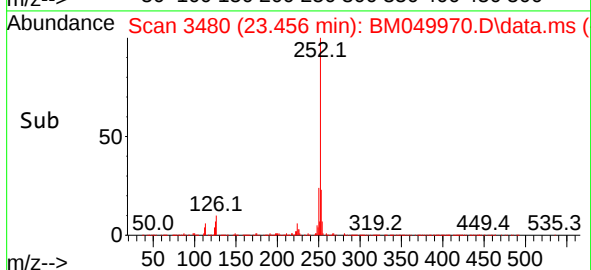
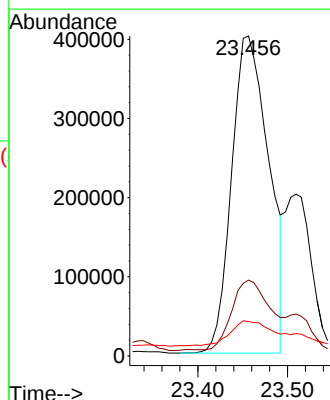
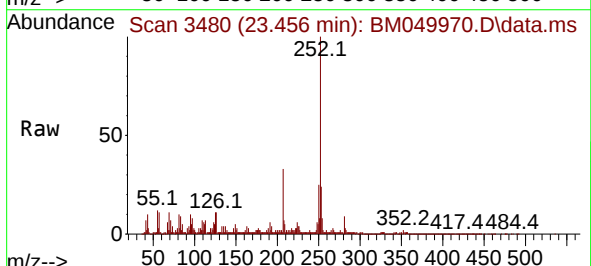
Tgt Ion:252 Resp: 1152752

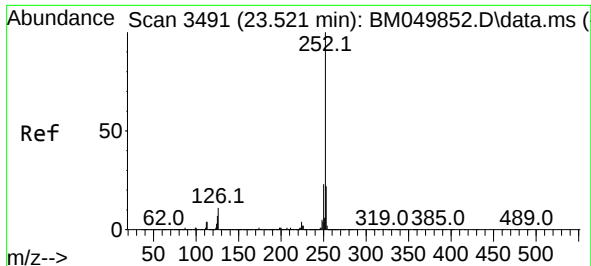
Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 10.7 6.2 9.4#

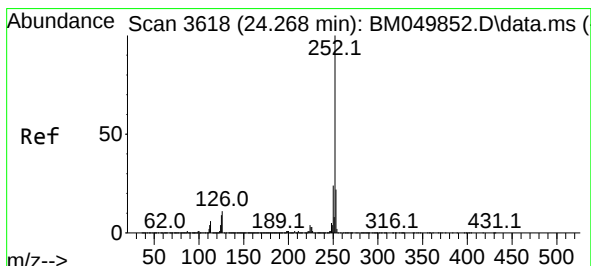
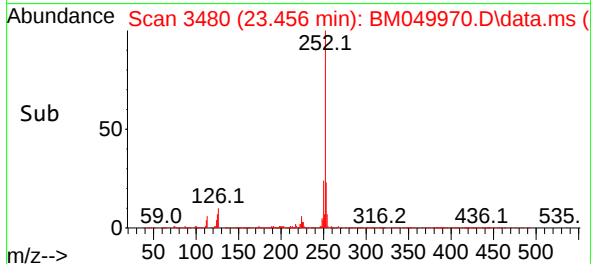
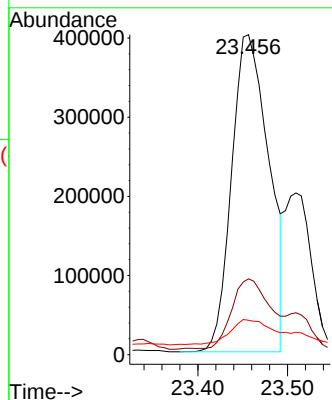
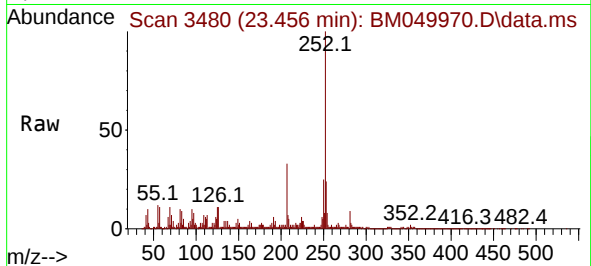




#89
Benzo(k)fluoranthene
Concen: 9.087 ng
RT: 23.456 min Scan# 3491
Delta R.T. -0.064 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

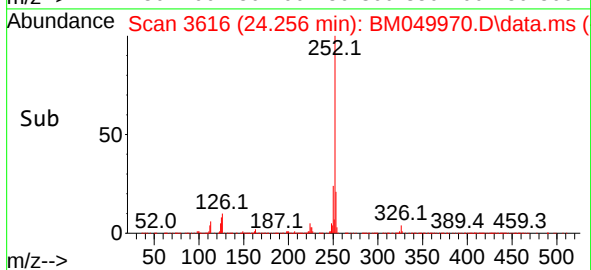
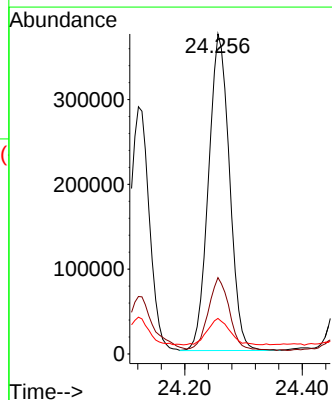
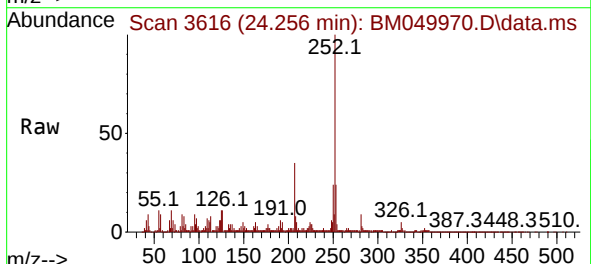
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

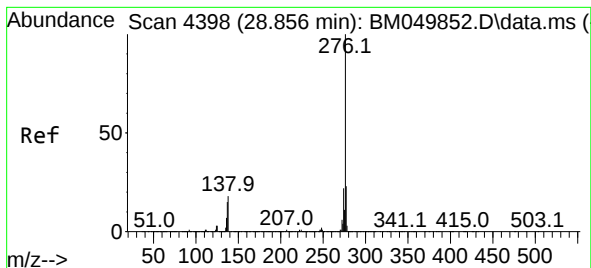
Tgt Ion:252 Resp: 1152752
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.2
125 10.7 5.8 8.8#



#90
Benzo(a)pyrene
Concen: 8.040 ng
RT: 24.256 min Scan# 3616
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:252 Resp: 924819
Ion Ratio Lower Upper
252 100
253 23.9 17.8 26.8
125 11.1 7.0 10.4#





#92

Benzo(g,h,i)perylene

Concen: 5.344 ng

RT: 28.850 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049970.D

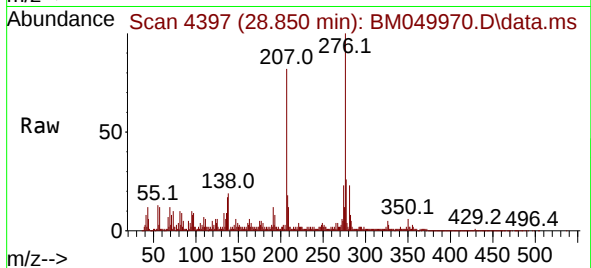
Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE



Tgt Ion:276 Resp: 687224

Ion Ratio Lower Upper

276 100

277 25.7 18.7 28.1

138 19.0 14.6 21.8

