

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
 Data File : BP025910.D
 Acq On : 01 Oct 2025 21:17
 Operator : CG/JU
 Sample : Q3256-01 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SOIL-PILE-1-WC

Quant Time: Oct 02 10:40:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP091225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 11 16:45:04 2025
 Response via : Initial Calibration

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

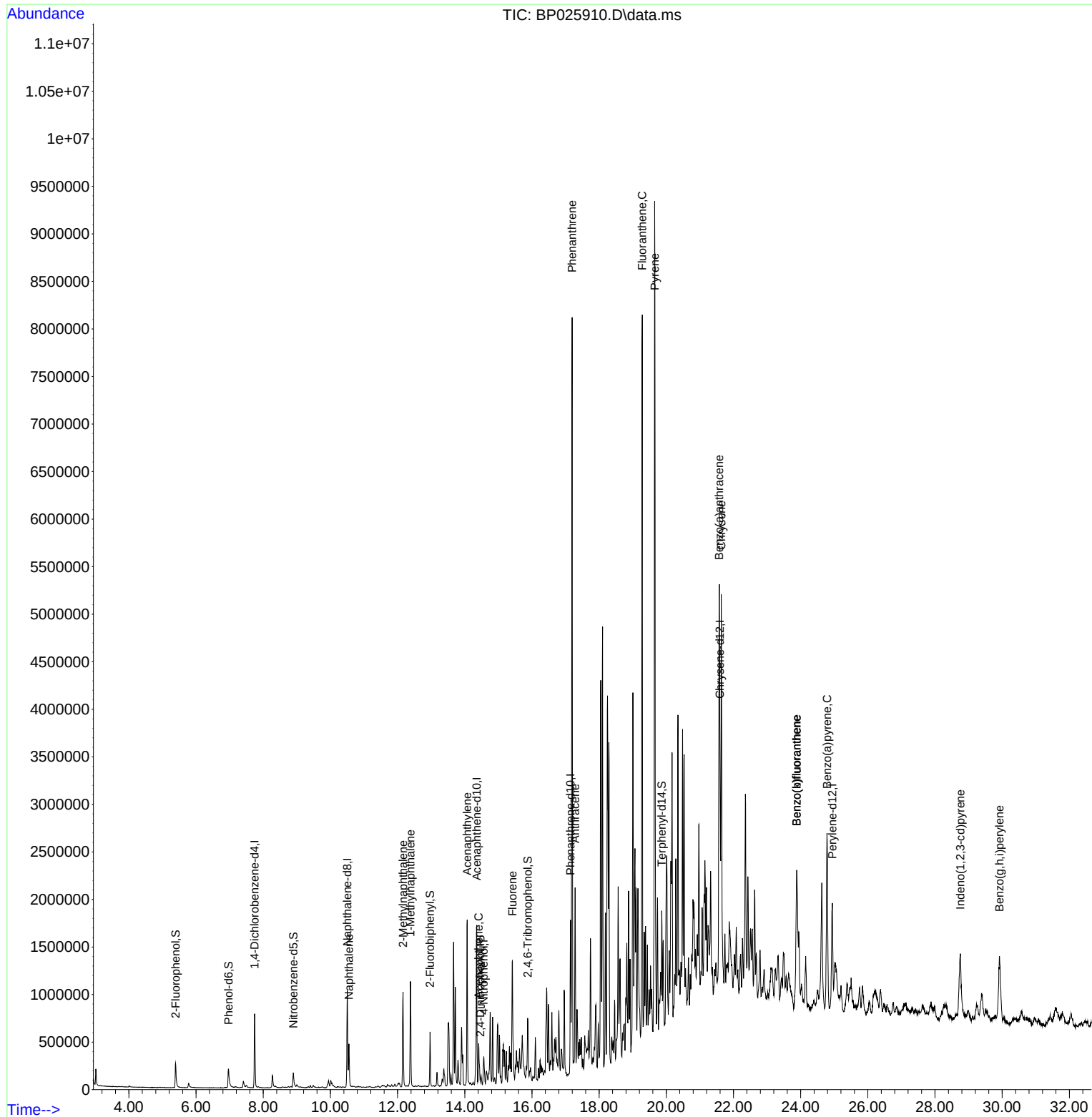
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.743	152	229305	20.000	ng	-0.02
21) Naphthalene-d8	10.502	136	892631	20.000	ng	-0.02
39) Acenaphthene-d10	14.354	164	568697	20.000	ng	-0.02
64) Phenanthrene-d10	17.148	188	1066627	20.000	ng	-0.04
76) Chrysene-d12	21.595	240	990972	20.000	ng	-0.05
86) Perylene-d12	24.942	264	1150278	20.000	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.390	112	161109	11.337	ng	0.00
7) Phenol-d6	6.966	99	197036	10.431	ng	0.02
23) Nitrobenzene-d5	8.896	82	126260	6.239	ng	0.00
42) 2,4,6-Tribromophenol	15.878	330	82106	11.575	ng	-0.03
45) 2-Fluorobiphenyl	12.966	172	296726	6.947	ng	-0.02
79) Terphenyl-d14	19.866	244	411119	7.463	ng	-0.05
Target Compounds						Qvalue
31) Naphthalene	10.549	128	381797	7.932	ng	99
37) 2-Methylnaphthalene	12.160	142	522899	16.915	ng	99
38) 1-Methylnaphthalene	12.384	142	538310	16.329	ng	99
49) Acenaphthylene	14.072	152	1019192	18.715	ng	98
52) Acenaphthene	14.413	154	154313	4.913	ng	98
54) 2,4-Dinitrophenol	14.460	184	241	4.862	ng	# 1
56) 4-Nitrophenol	14.560	139	11251	5.757	ng	# 19
58) Fluorene	15.419	166	594160	14.598	ng	98
71) Phenanthrene	17.195	178	4727609	78.135	ng	99
72) Anthracene	17.284	178	1275549	20.778	ng	100
75) Fluoranthene	19.283	202	3990060	54.986	ng	98
78) Pyrene	19.654	202	6100653	92.262	ng	99
81) Benzo(a)anthracene	21.572	228	2588122	38.149	ng	91
83) Chrysene	21.636	228	2796739	43.245	ng	97
87) Indeno(1,2,3-cd)pyrene	28.754	276	1087696	13.003	ng	# 81
88) Benzo(b)fluoranthene	23.883	252	2053557	29.194	ng	99
89) Benzo(k)fluoranthene	23.883	252	2053557	28.609	ng	98
90) Benzo(a)pyrene	24.783	252	1878651	27.272	ng	97
92) Benzo(g,h,i)perylene	29.918	276	1227458	18.233	ng	98

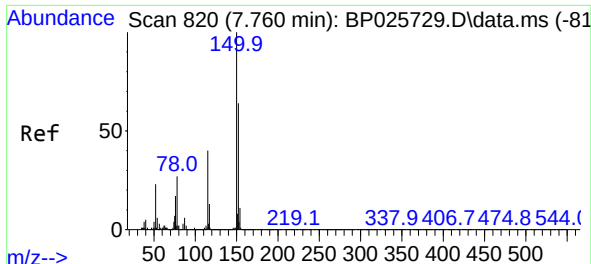
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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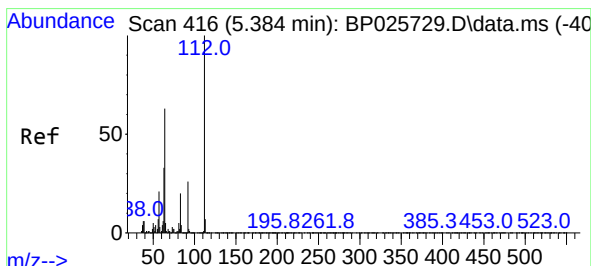
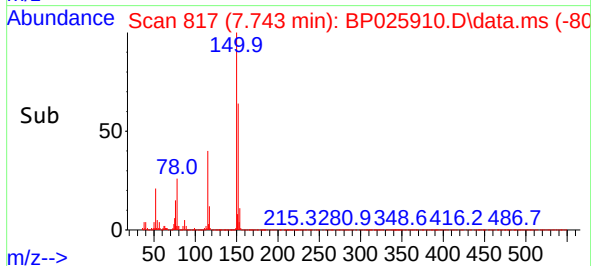
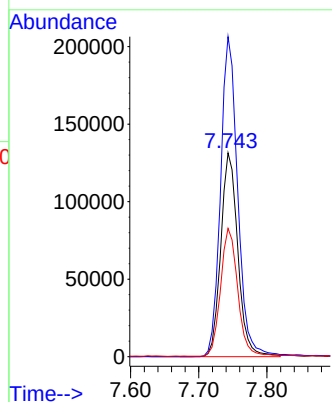
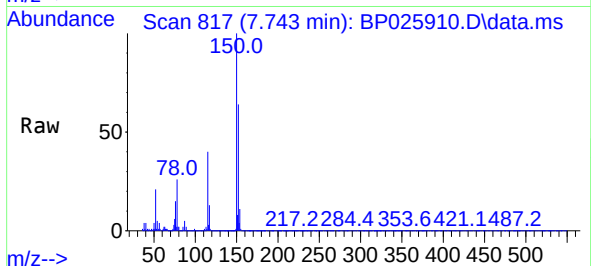




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.743 min Scan# 81
Delta R.T. -0.017 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

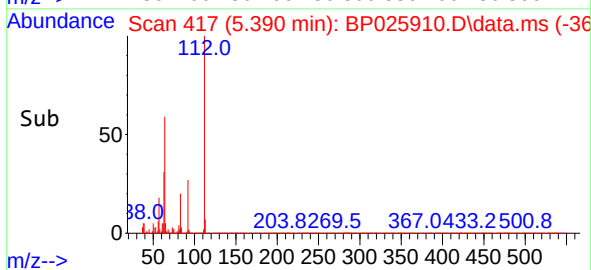
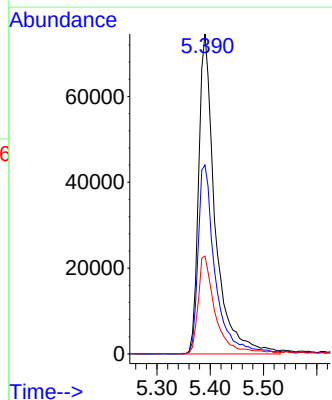
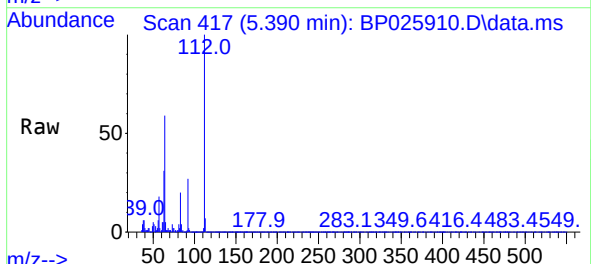
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

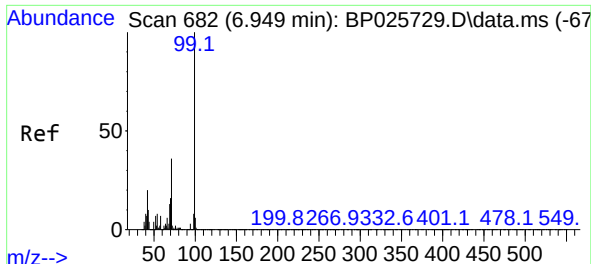
Tgt Ion:152 Resp: 229305
Ion Ratio Lower Upper
152 100
150 157.0 124.3 186.5
115 62.9 50.3 75.5



#5
2-Fluorophenol
Concen: 11.337 ng
RT: 5.390 min Scan# 417
Delta R.T. 0.006 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:112 Resp: 161109
Ion Ratio Lower Upper
112 100
64 59.1 50.2 75.4
63 30.6 26.7 40.1

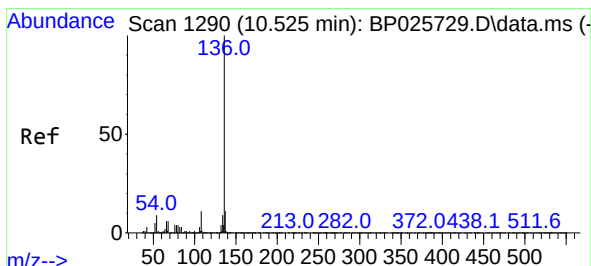
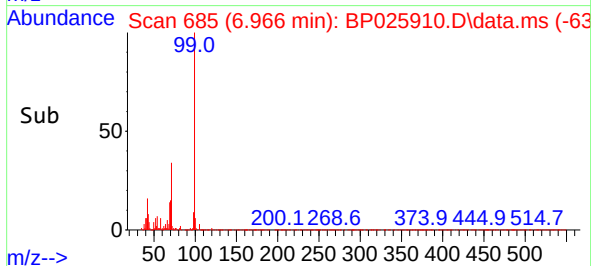
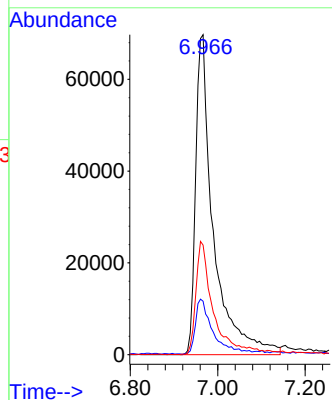
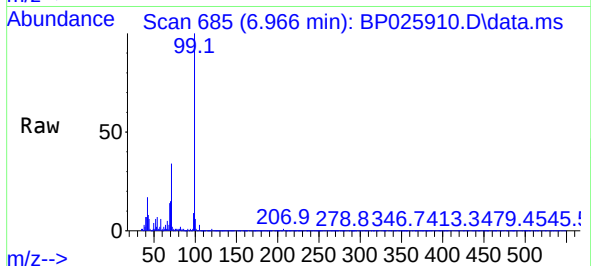




#7
Phenol-d6
Concen: 10.431 ng
RT: 6.966 min Scan# 61
Delta R.T. 0.018 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

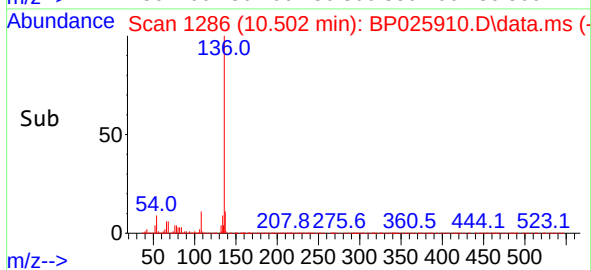
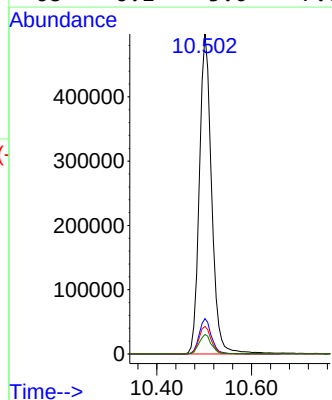
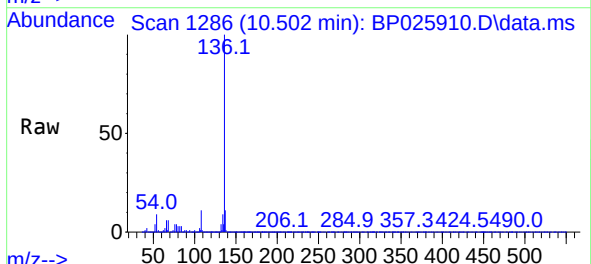
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

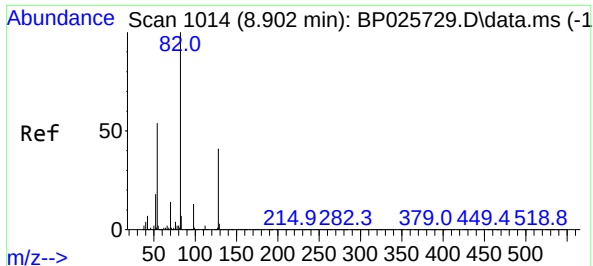
Tgt Ion: 99 Resp: 197036
Ion Ratio Lower Upper
99 100
42 16.7 15.6 23.4
71 34.3 28.6 43.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.502 min Scan# 1286
Delta R.T. -0.024 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion: 136 Resp: 892631
Ion Ratio Lower Upper
136 100
137 11.1 8.7 13.1
54 8.6 7.5 11.3
68 6.1 5.0 7.6

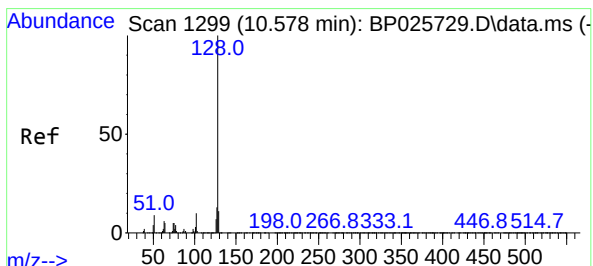
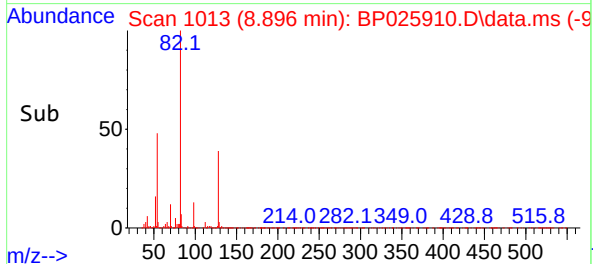
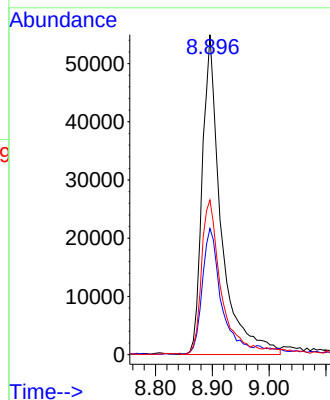
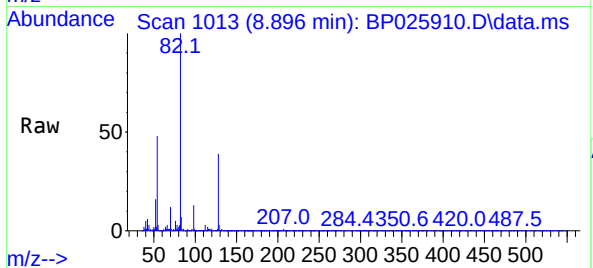




#23
Nitrobenzene-d5
Concen: 6.239 ng
RT: 8.896 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

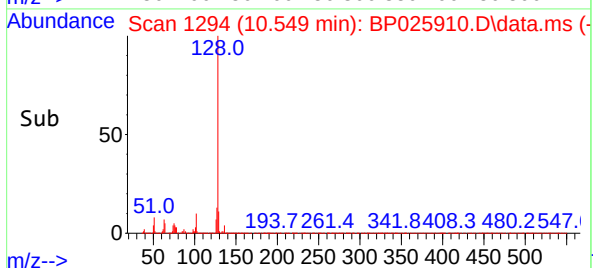
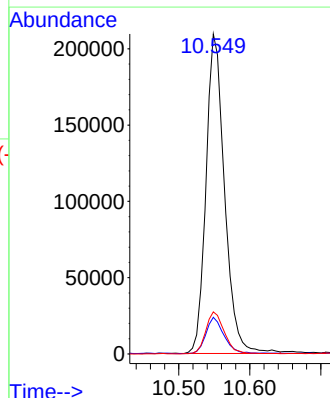
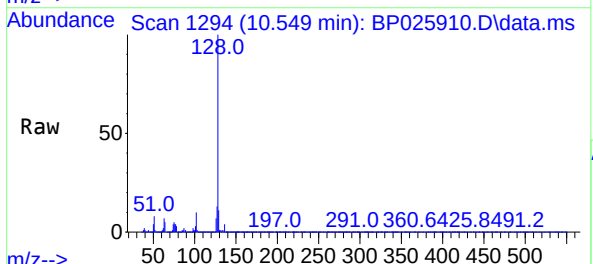
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

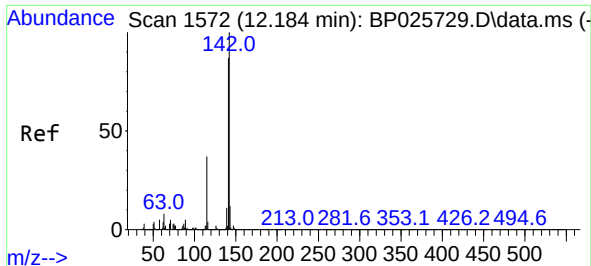
Tgt Ion: 82 Resp: 126260
Ion Ratio Lower Upper
82 100
128 39.5 32.9 49.3
54 48.3 43.4 65.2



#31
Naphthalene
Concen: 7.932 ng
RT: 10.549 min Scan# 1294
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion: 128 Resp: 381797
Ion Ratio Lower Upper
128 100
129 11.4 8.6 12.8
127 13.2 10.2 15.4





#37

2-Methylnaphthalene

Concen: 16.915 ng

RT: 12.160 min Scan# 11

Delta R.T. -0.024 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

Instrument :

BNA_P

ClientSampleId :

SOIL-PILE-1-WC

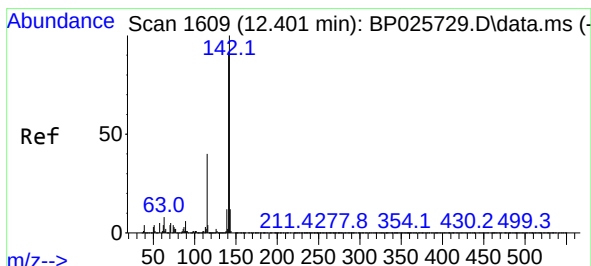
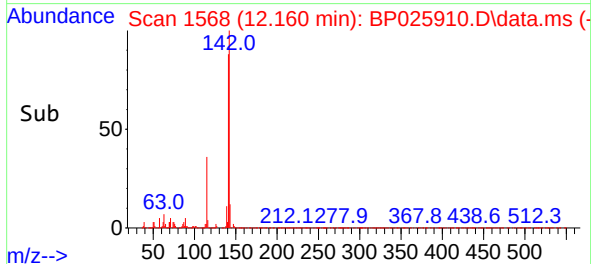
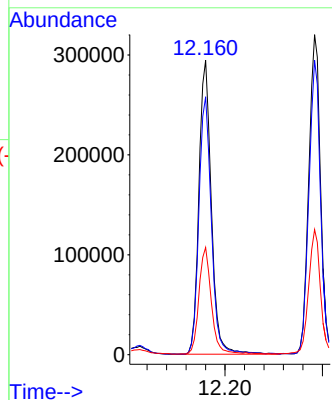
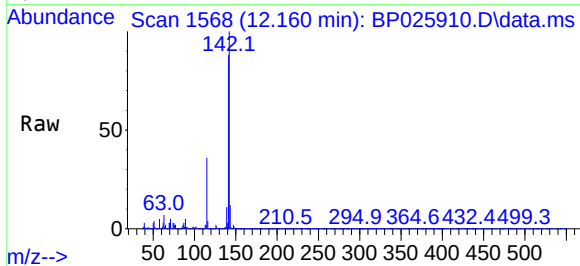
Tgt Ion:142 Resp: 522899

Ion Ratio Lower Upper

142 100

141 87.6 69.6 104.4

115 36.4 30.0 45.0



#38

1-Methylnaphthalene

Concen: 16.329 ng

RT: 12.384 min Scan# 1606

Delta R.T. -0.018 min

Lab File: BP025910.D

Acq: 01 Oct 2025 21:17

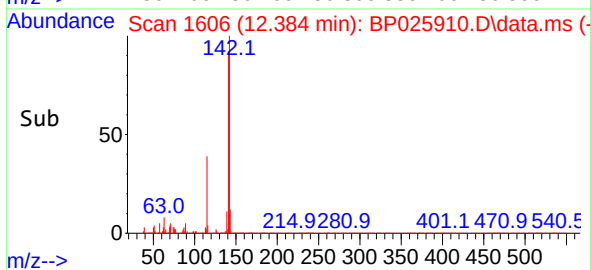
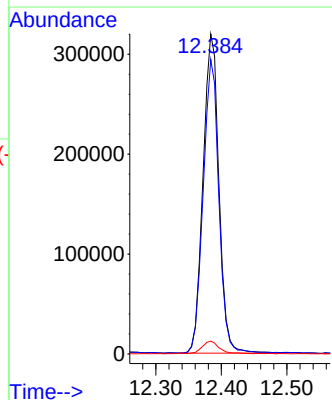
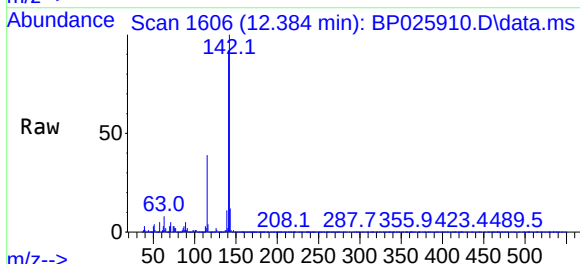
Tgt Ion:142 Resp: 538310

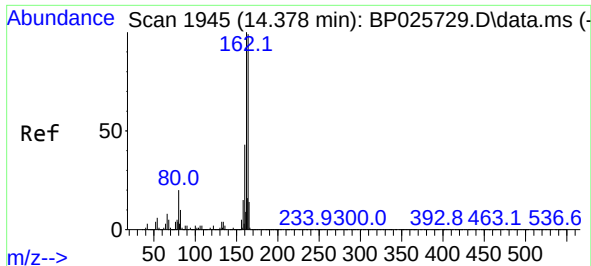
Ion Ratio Lower Upper

142 100

141 92.0 72.7 109.1

116 4.0 3.5 5.3

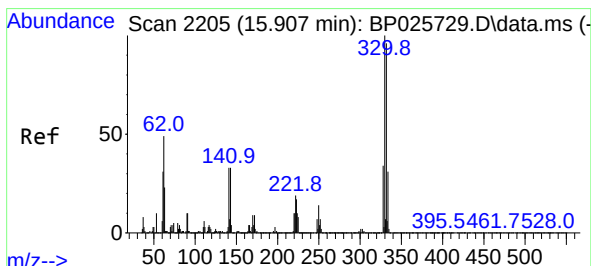
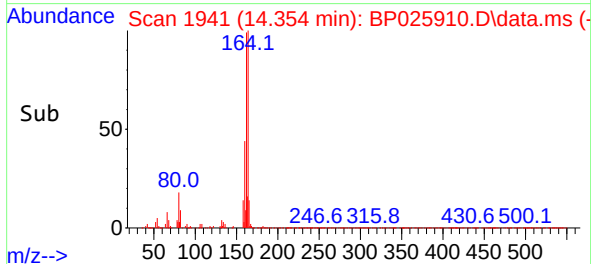
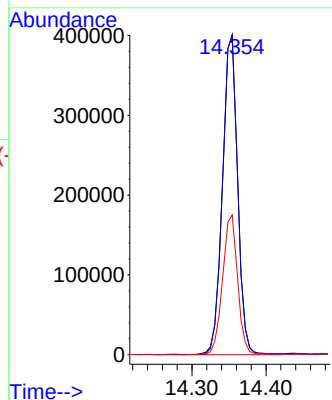
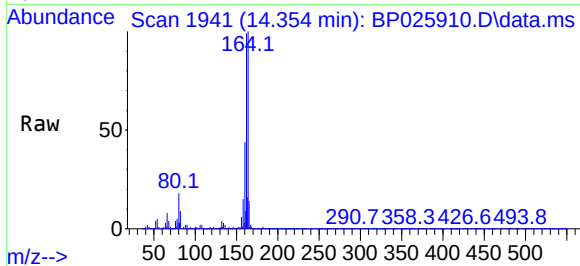




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.354 min Scan# 1941
Delta R.T. -0.024 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

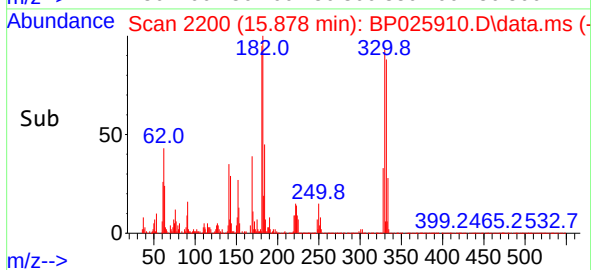
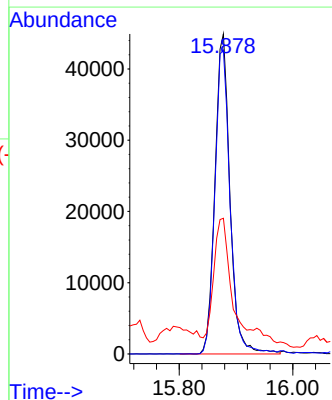
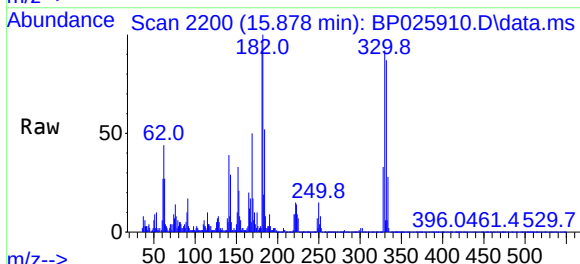
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SOIL-PILE-1-WC

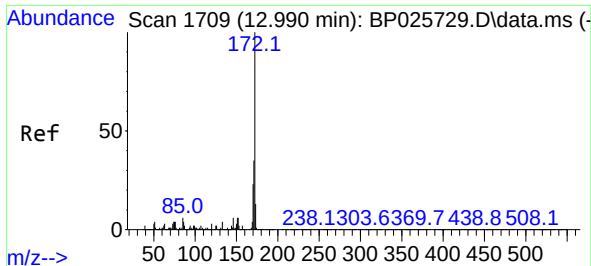
Tgt Ion:164 Resp: 568697
Ion Ratio Lower Upper
164 100
162 99.5 80.6 120.8
160 43.7 35.0 52.6



#42
2,4,6-Tribromophenol
Concen: 11.575 ng
RT: 15.878 min Scan# 2200
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:330 Resp: 82106
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 40.3 31.0 46.4

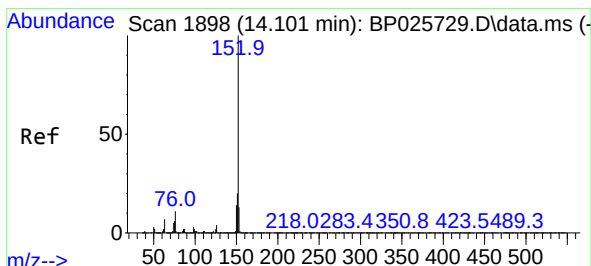
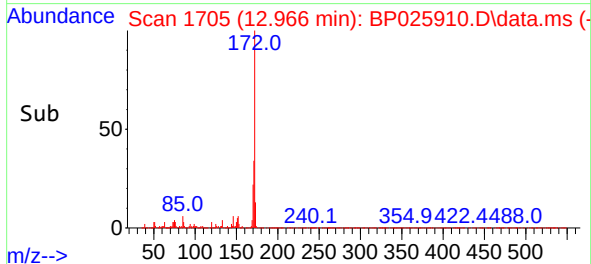
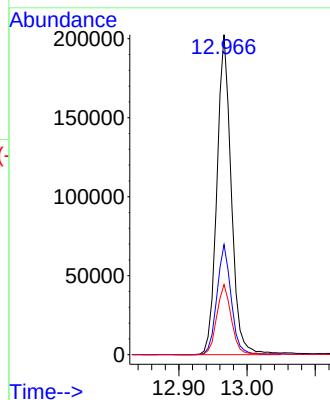
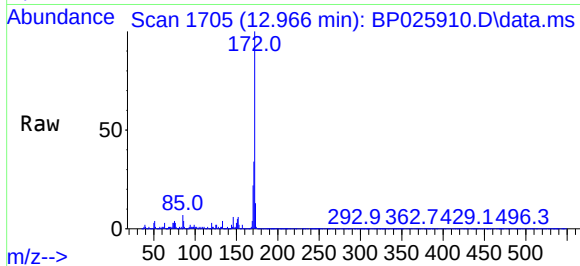




#45
2-Fluorobiphenyl
Concen: 6.947 ng
RT: 12.966 min Scan# 11
Delta R.T. -0.023 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

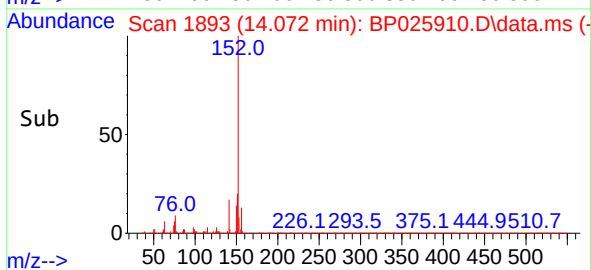
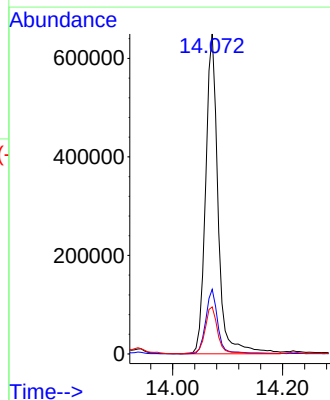
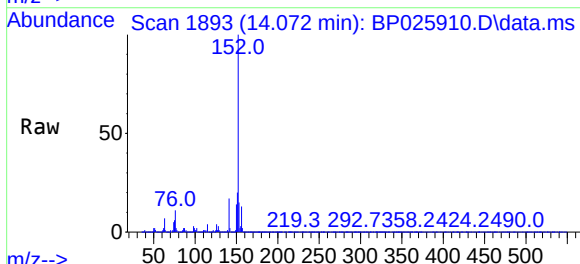
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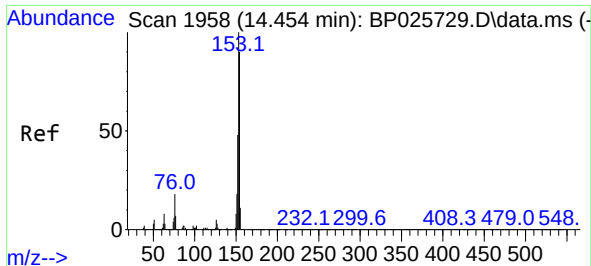
Tgt Ion:172 Resp: 296726
Ion Ratio Lower Upper
172 100
171 34.4 27.8 41.6
170 21.9 18.6 27.8



#49
Acenaphthylene
Concen: 18.715 ng
RT: 14.072 min Scan# 1893
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:152 Resp: 1019192
Ion Ratio Lower Upper
152 100
151 20.2 15.8 23.6
153 14.7 10.5 15.7

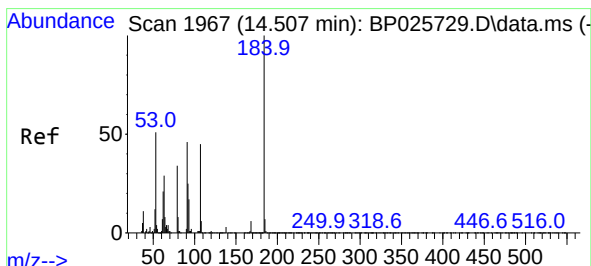
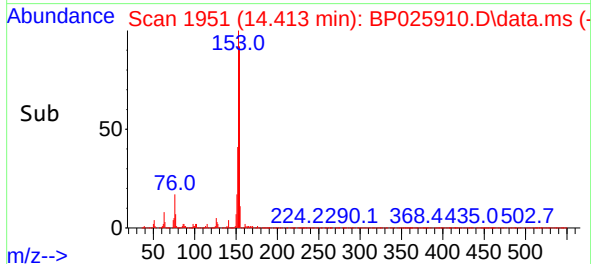
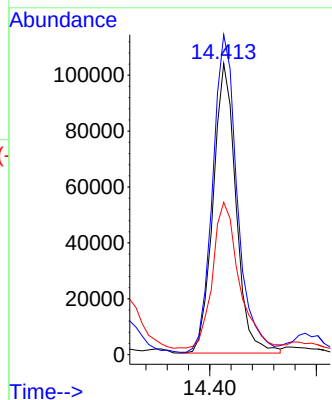
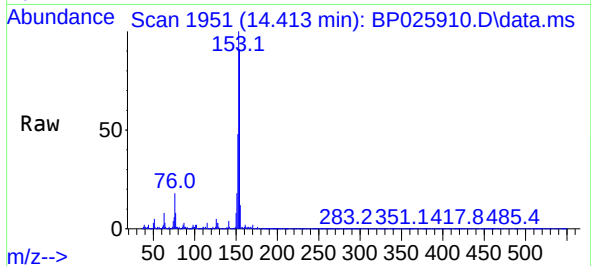




#52
Acenaphthene
Concen: 4.913 ng
RT: 14.413 min Scan# 1951
Delta R.T. -0.041 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

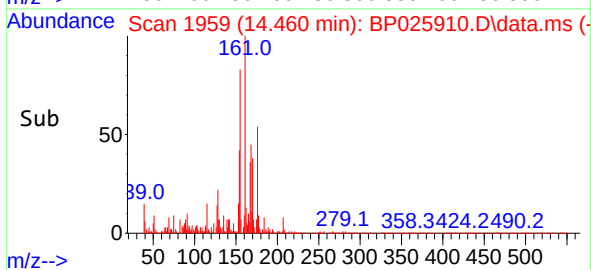
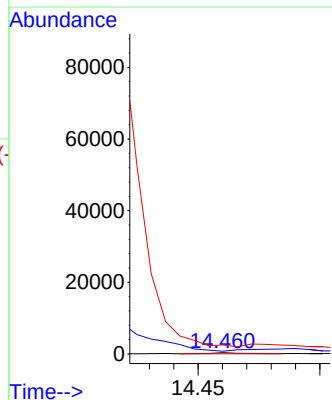
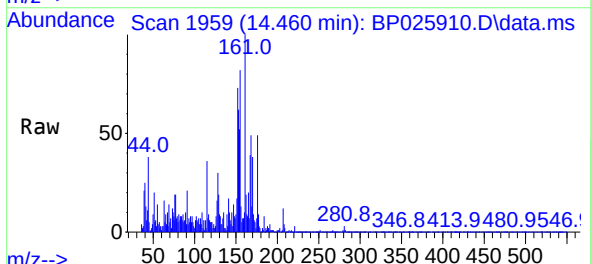
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

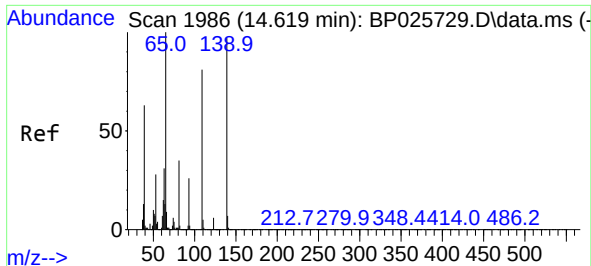
Tgt Ion:154 Resp: 154313
Ion Ratio Lower Upper
154 100
153 109.9 89.4 134.0
152 52.3 42.5 63.7



#54
2,4-Dinitrophenol
Concen: 4.862 ng
RT: 14.460 min Scan# 1959
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:184 Resp: 241
Ion Ratio Lower Upper
184 100
63 211.0 52.5 78.7#
154 685.7 51.5 77.3#

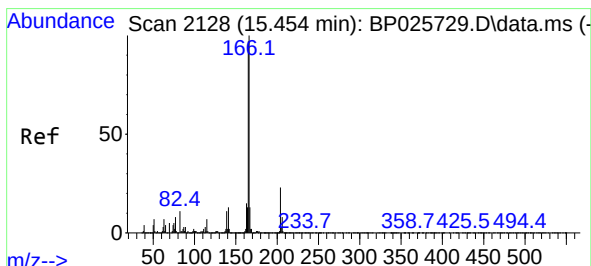
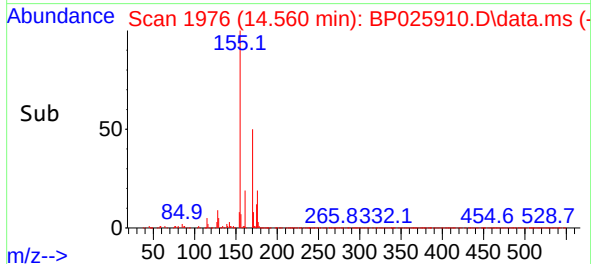
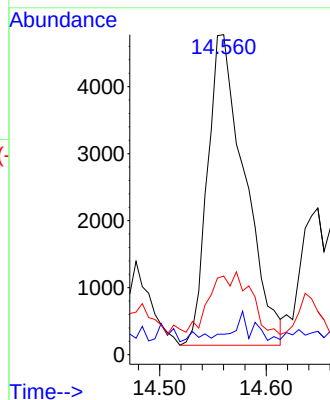
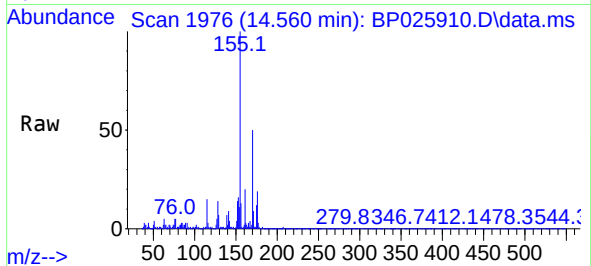




#56
4-Nitrophenol
Concen: 5.757 ng
RT: 14.560 min Scan# 1986
Delta R.T. -0.059 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

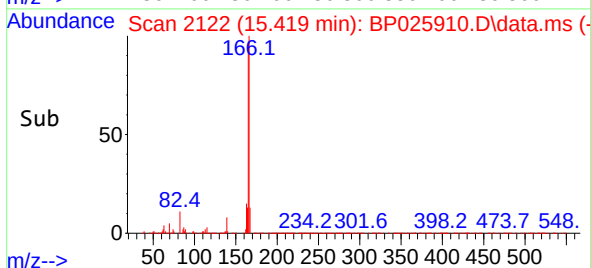
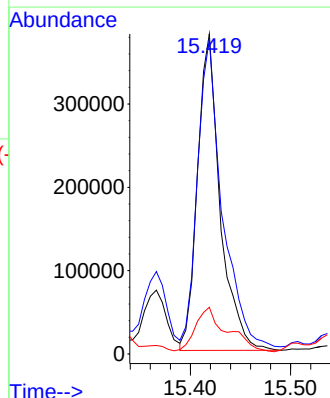
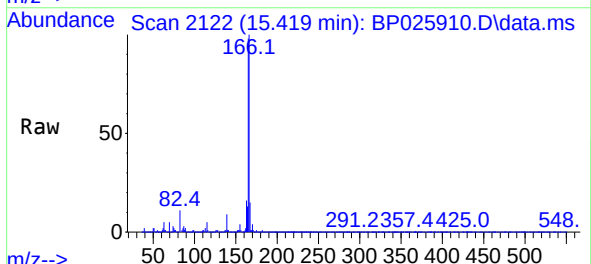
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

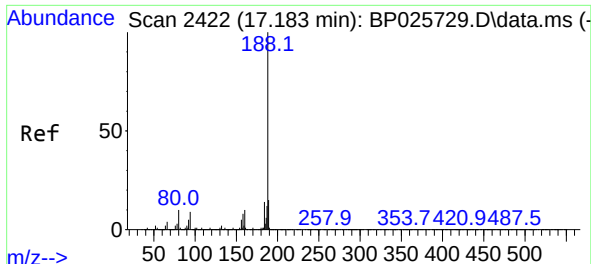
Tgt Ion:139 Resp: 11251
Ion Ratio Lower Upper
139 100
109 6.4 62.9 102.9#
65 24.6 83.4 123.4#



#58
Fluorene
Concen: 14.598 ng
RT: 15.419 min Scan# 2122
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:166 Resp: 594160
Ion Ratio Lower Upper
166 100
165 98.4 77.7 116.5
167 14.6 10.6 16.0

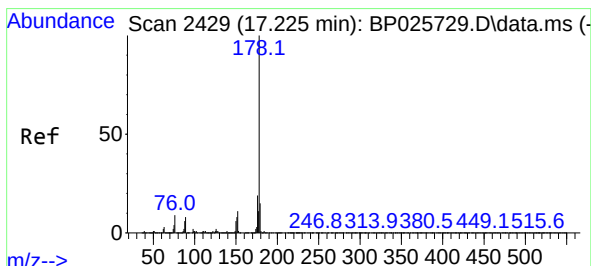
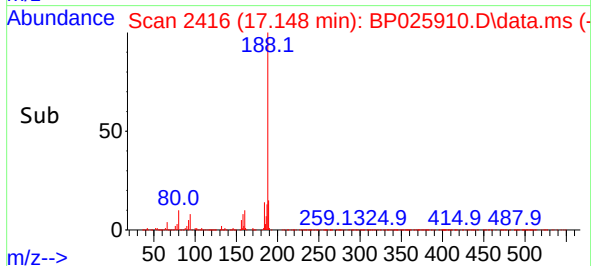
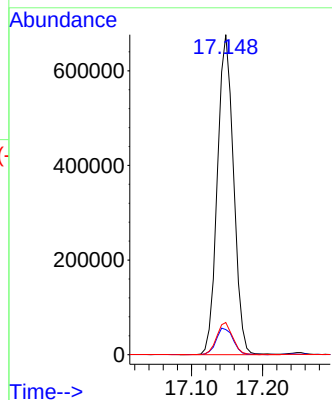
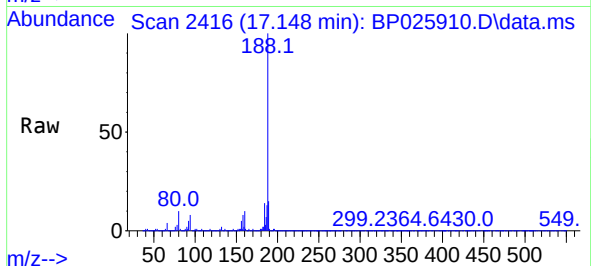




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.148 min Scan# 2416
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

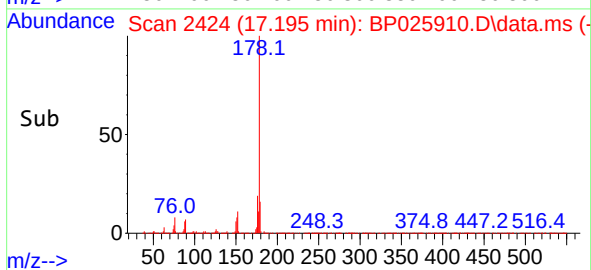
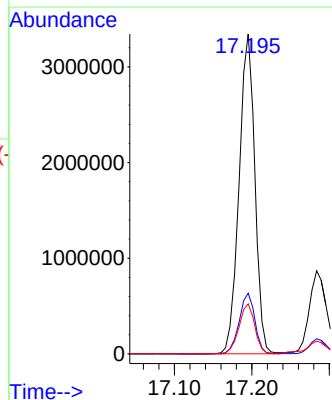
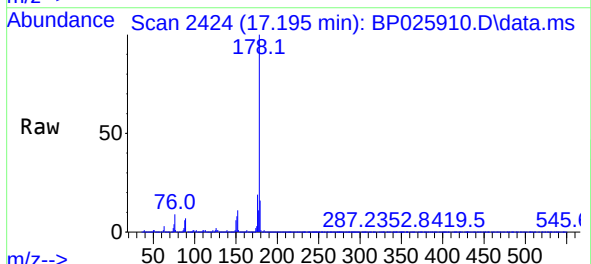
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

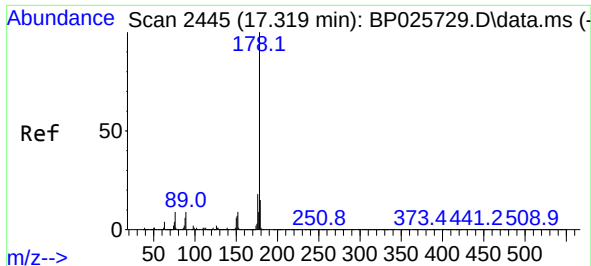
Tgt Ion:188 Resp: 1066627
Ion Ratio Lower Upper
188 100
94 7.9 7.4 11.0
80 10.0 7.7 11.5



#71
Phenanthrene
Concen: 78.135 ng
RT: 17.195 min Scan# 2424
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:178 Resp: 4727609
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.7 12.2 18.4

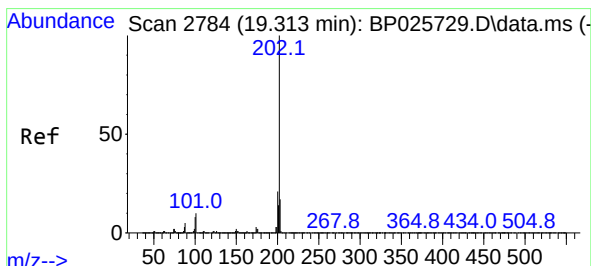
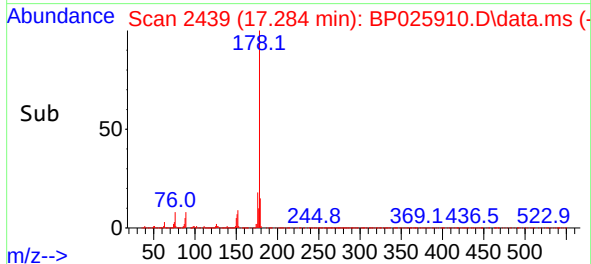
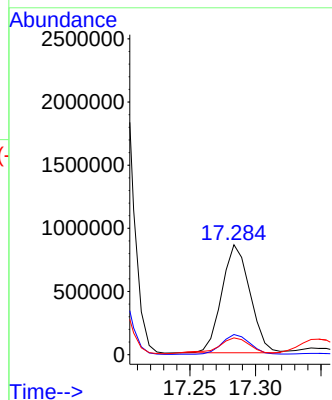
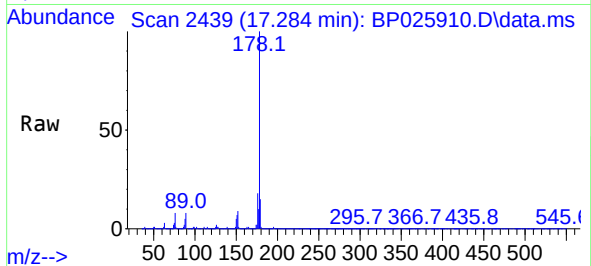




#72
Anthracene
Concen: 20.778 ng
RT: 17.284 min Scan# 2445
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

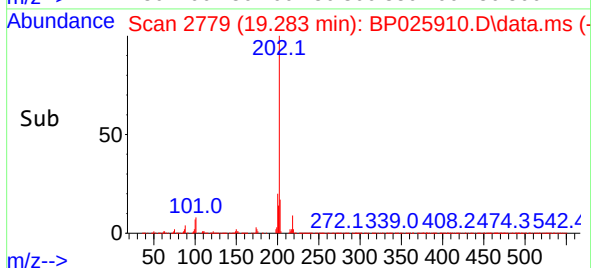
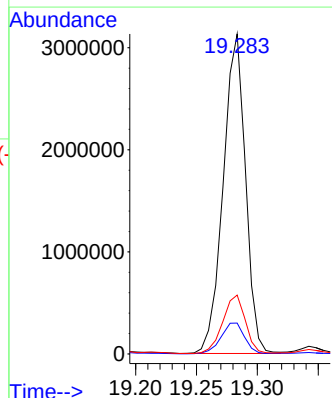
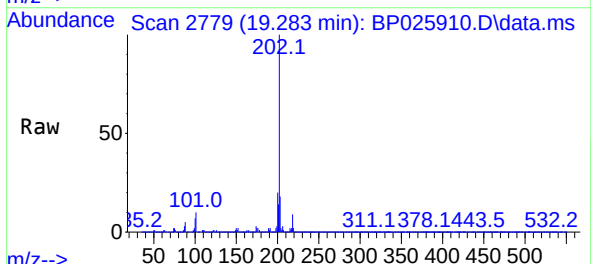
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

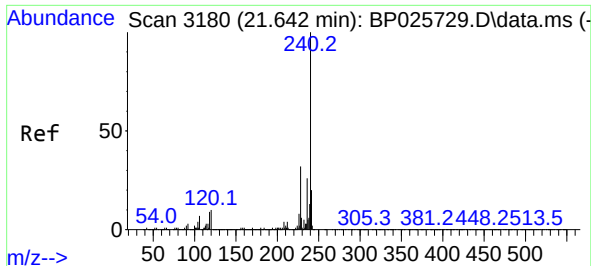
Tgt Ion:178 Resp: 1275549
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.3 12.2 18.4



#75
Fluoranthene
Concen: 54.986 ng
RT: 19.283 min Scan# 2779
Delta R.T. -0.029 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:202 Resp: 3990060
Ion Ratio Lower Upper
202 100
101 9.7 0.0 30.4
203 18.4 0.0 37.4

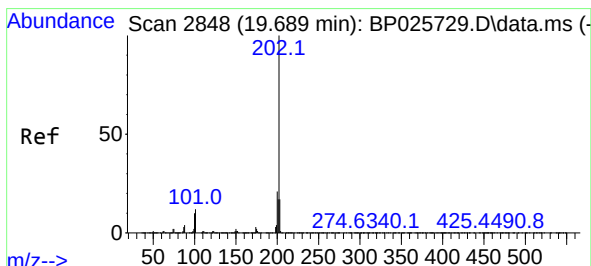
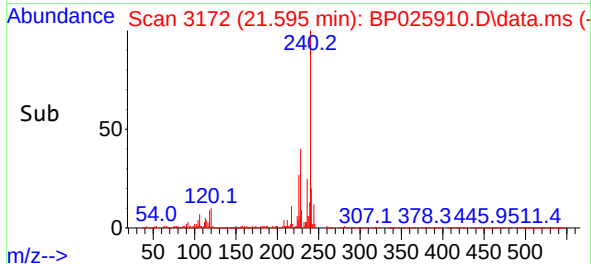
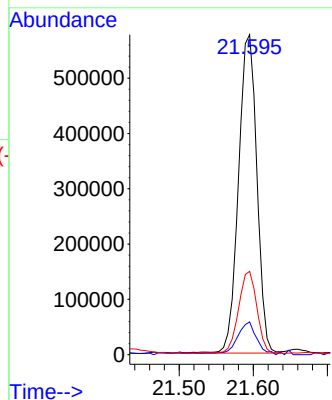
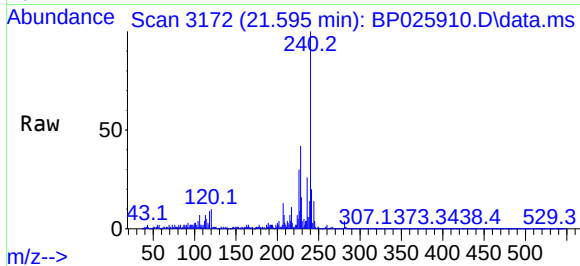




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.595 min Scan# 31
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

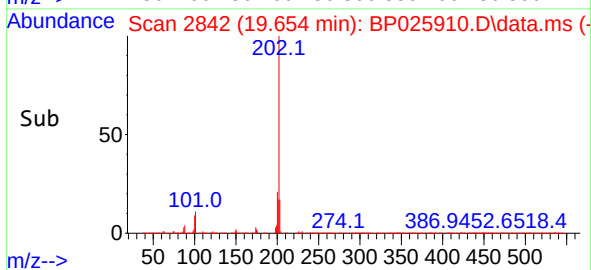
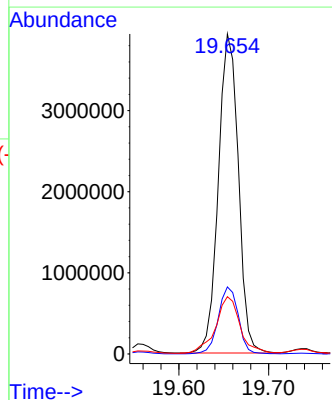
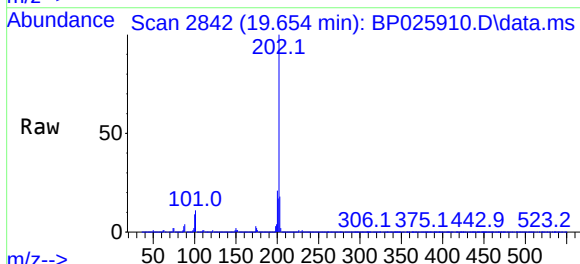
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

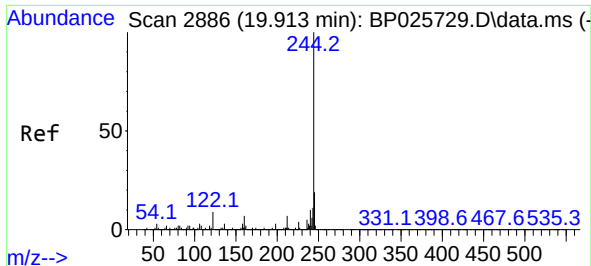
Tgt Ion:240 Resp: 990972
Ion Ratio Lower Upper
240 100
120 10.2 8.0 12.0
236 26.0 20.7 31.1



#78
Pyrene
Concen: 92.262 ng
RT: 19.654 min Scan# 2842
Delta R.T. -0.035 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:202 Resp: 6100653
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 17.9 13.9 20.9

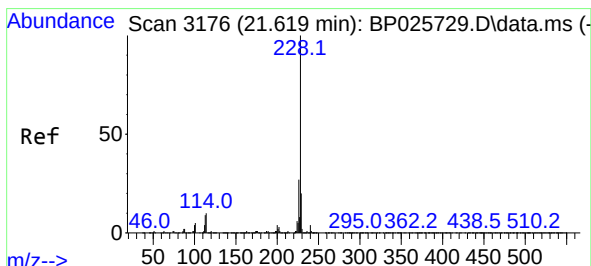
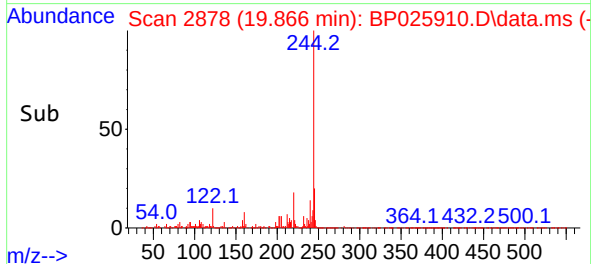
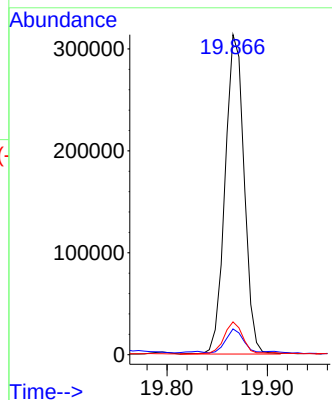
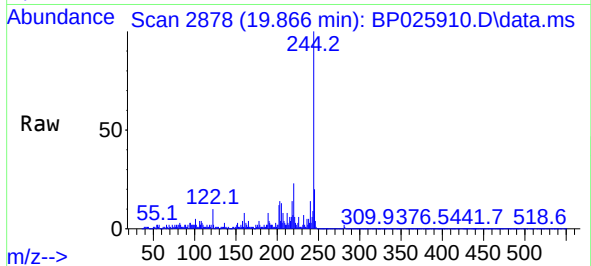




#79
Terphenyl-d14
Concen: 7.463 ng
RT: 19.866 min Scan# 21
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

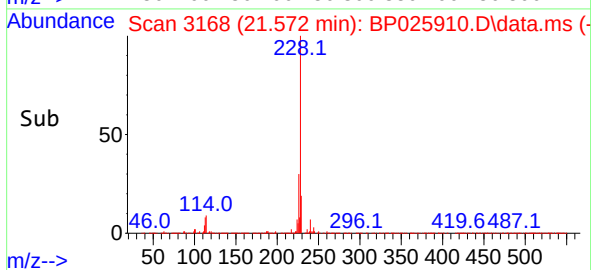
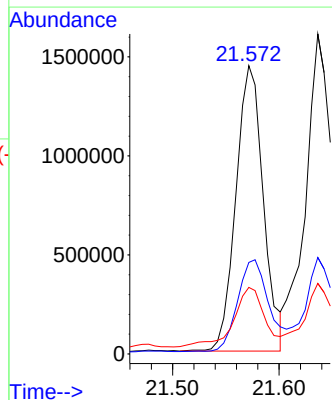
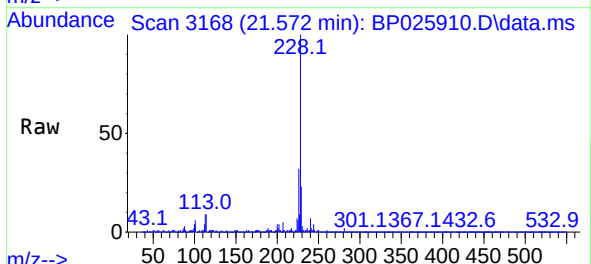
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

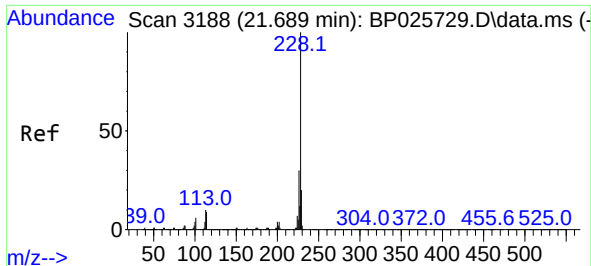
Tgt Ion:244 Resp: 411119
Ion Ratio Lower Upper
244 100
212 8.0 5.9 8.9
122 10.3 7.1 10.7



#81
Benzo(a)anthracene
Concen: 38.149 ng
RT: 21.572 min Scan# 3168
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:228 Resp: 2588122
Ion Ratio Lower Upper
228 100
226 31.8 21.6 32.4
229 23.1 15.7 23.5

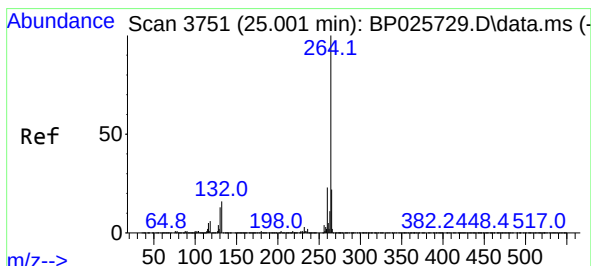
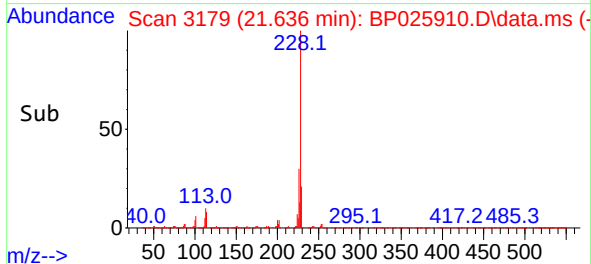
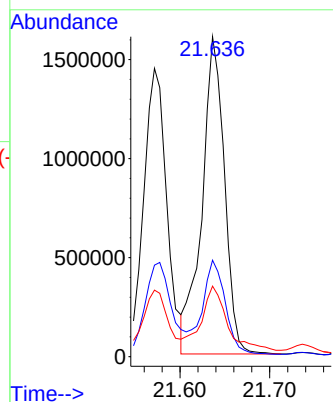
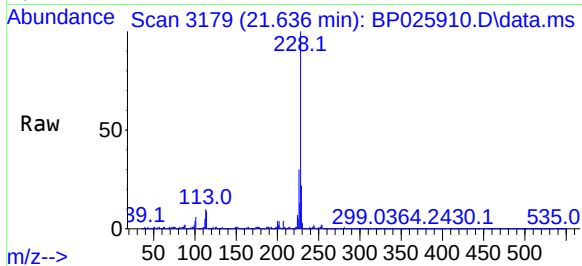




#83
Chrysene
Concen: 43.245 ng
RT: 21.636 min Scan# 3188
Delta R.T. -0.053 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

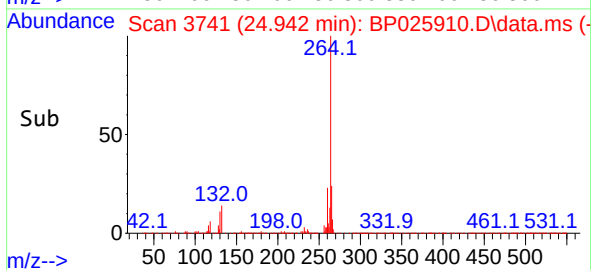
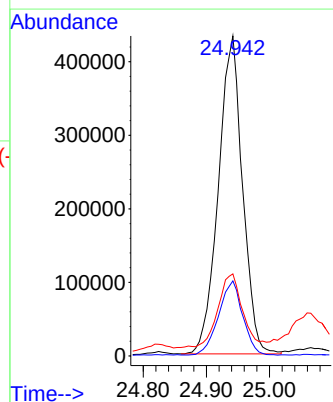
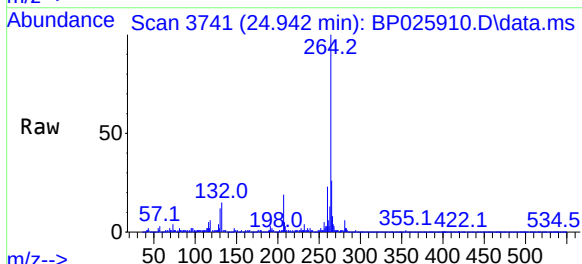
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

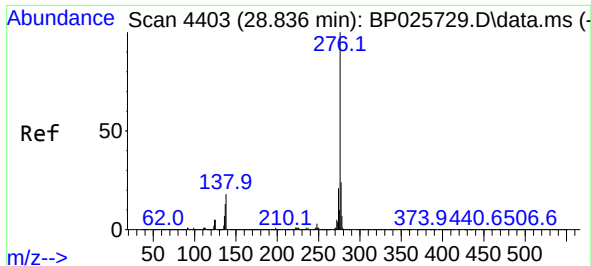
Tgt Ion:228 Resp: 2796739
Ion Ratio Lower Upper
228 100
226 30.2 23.8 35.6
229 22.1 15.6 23.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.942 min Scan# 3741
Delta R.T. -0.059 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:264 Resp: 1150278
Ion Ratio Lower Upper
264 100
260 23.4 18.3 27.5
265 25.7 17.3 25.9

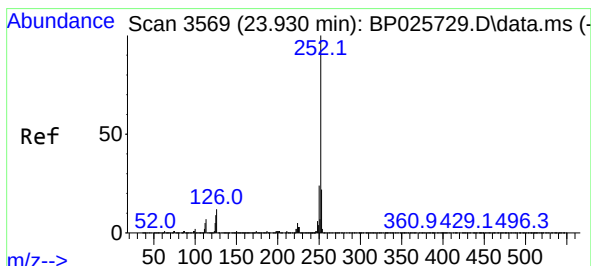
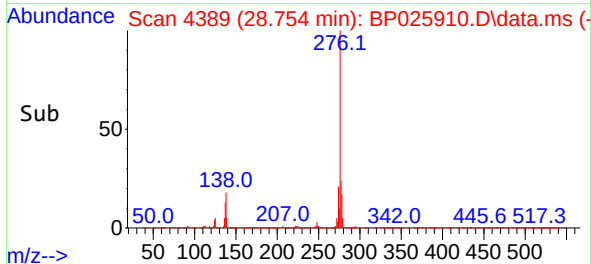
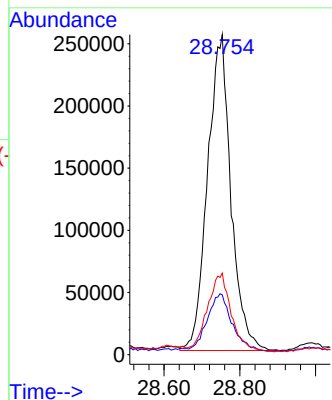
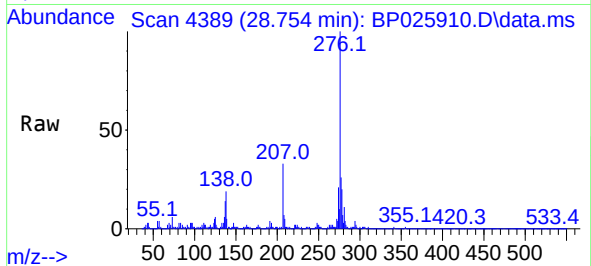




#87
Indeno(1,2,3-cd)pyrene
Concen: 13.003 ng
RT: 28.754 min Scan# 41
Delta R.T. -0.082 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

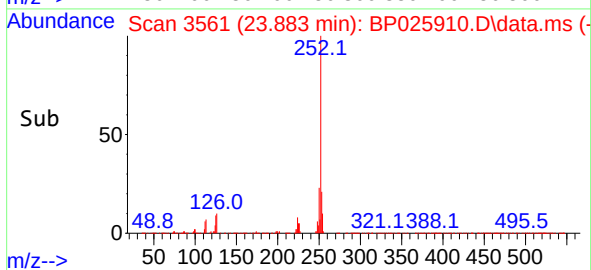
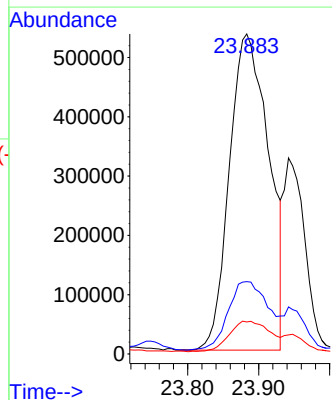
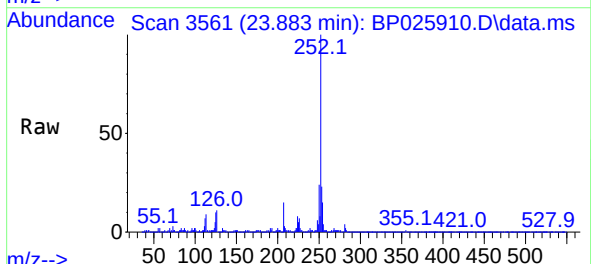
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

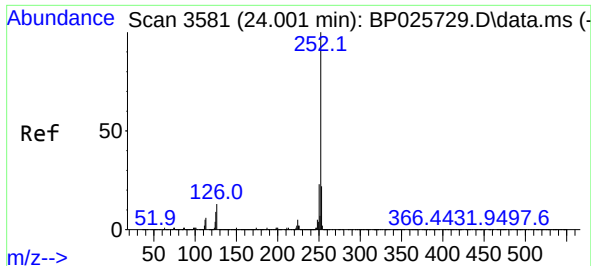
Tgt Ion:276 Resp: 1087696
Ion Ratio Lower Upper
276 100
138 19.4 13.4 20.2
277 25.6 9.1 13.7#



#88
Benzo(b)fluoranthene
Concen: 29.194 ng
RT: 23.883 min Scan# 3561
Delta R.T. -0.047 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Tgt Ion:252 Resp: 2053557
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 10.0 7.3 10.9

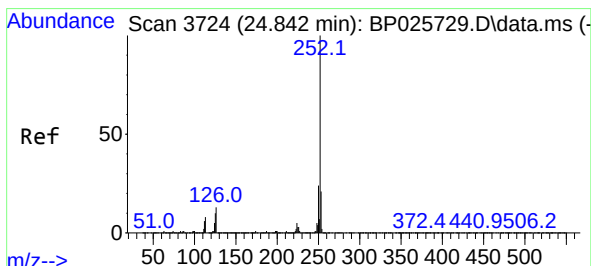
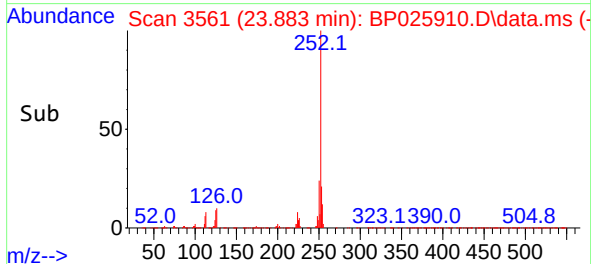
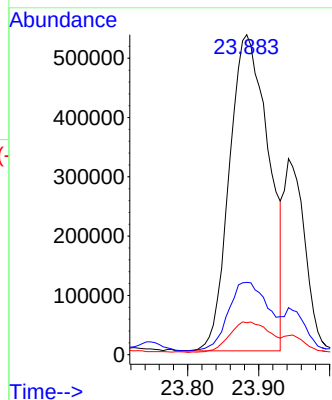
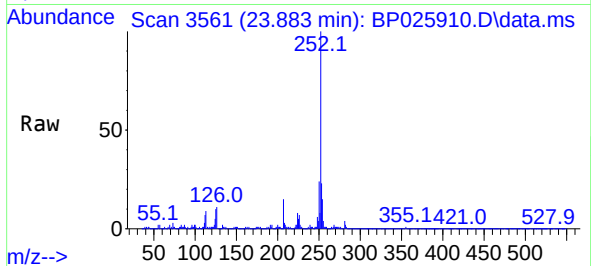




#89
Benzo(k)fluoranthene
Concen: 28.609 ng
RT: 23.883 min Scan# 311
Delta R.T. -0.118 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

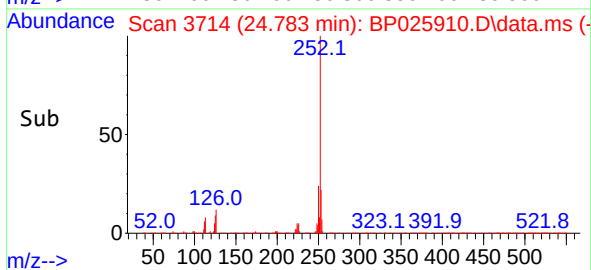
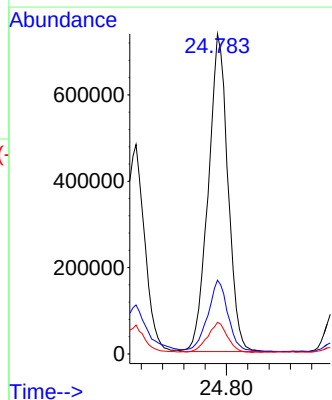
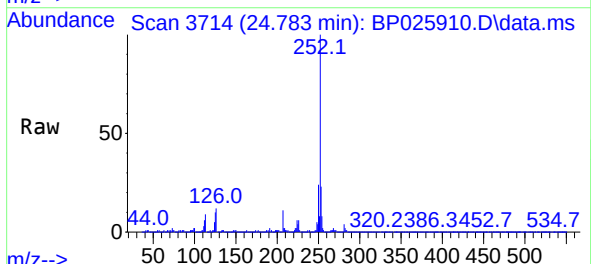
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC

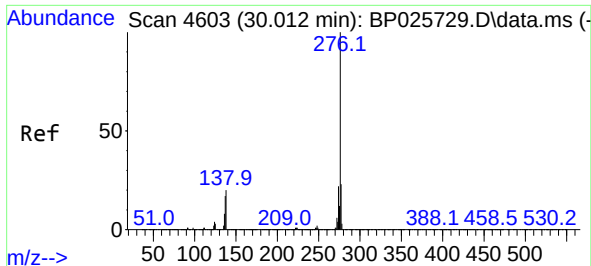
Tgt Ion:252 Resp: 2053557
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 10.0 7.5 11.3



#90
Benzo(a)pyrene
Concen: 27.272 ng
RT: 24.783 min Scan# 3714
Delta R.T. -0.059 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

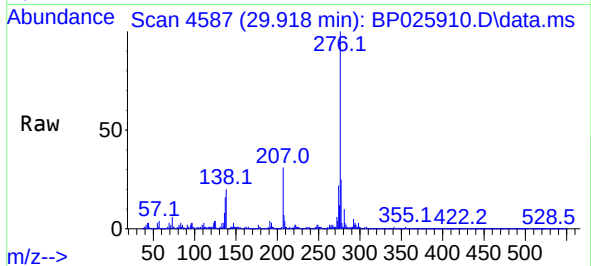
Tgt Ion:252 Resp: 1878651
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 9.9 8.3 12.5





#92
Benzo(g,h,i)perylene
Concen: 18.233 ng
RT: 29.918 min Scan# 4
Delta R.T. -0.094 min
Lab File: BP025910.D
Acq: 01 Oct 2025 21:17

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-1-WC



Tgt Ion:276 Resp: 1227458
Ion Ratio Lower Upper
276 100
277 24.7 18.7 28.1
138 19.6 16.0 24.0

