

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP100125\
 Data File : BP025911.D
 Acq On : 01 Oct 2025 21:58
 Operator : CG/JU
 Sample : Q3256-05 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SOIL-PILE-2-WC

Quant Time: Oct 02 10:40:56 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)

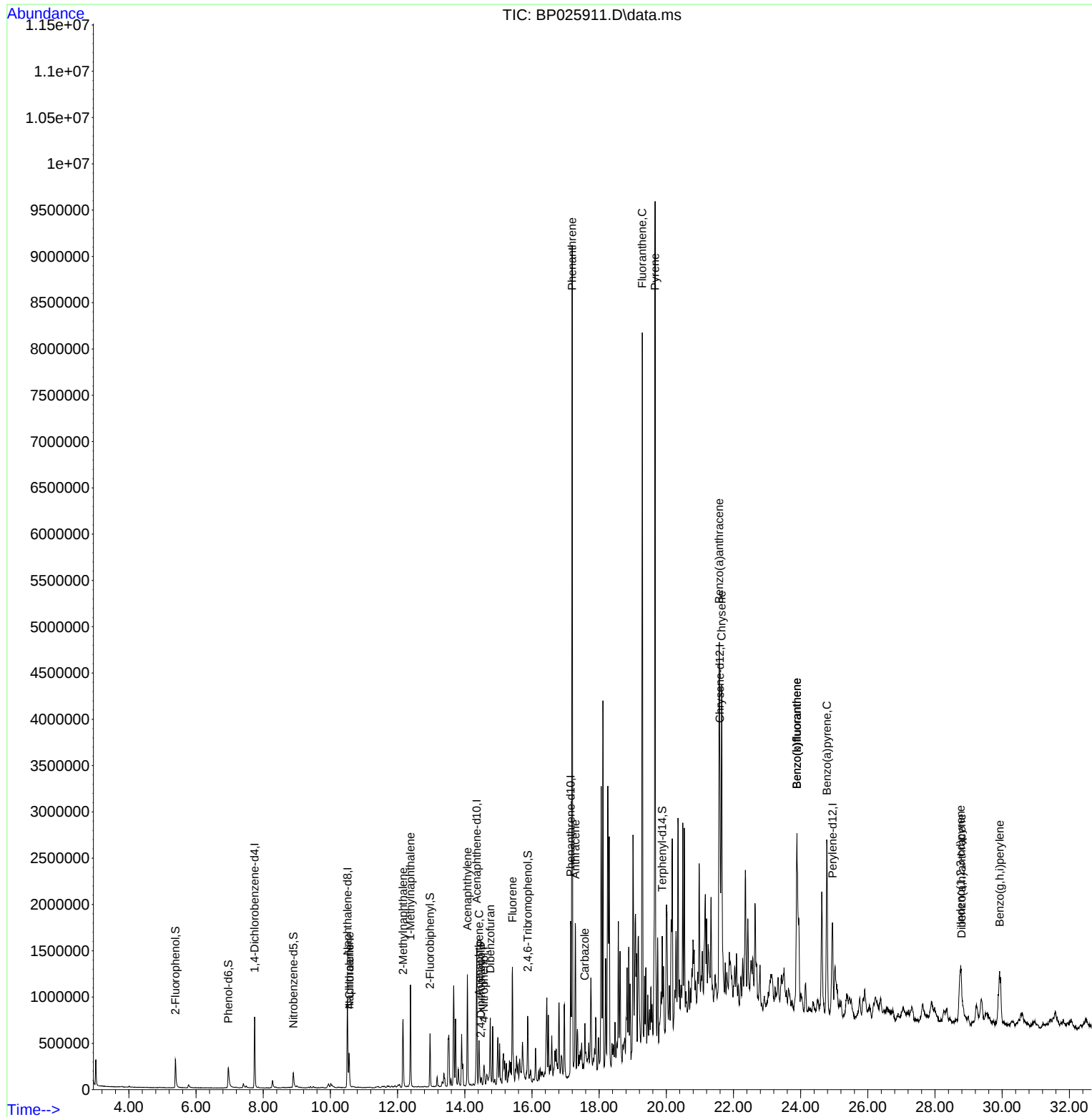
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.743	152	225670	20.000	ng	-0.02
21) Naphthalene-d8	10.507	136	858656	20.000	ng	-0.02
39) Acenaphthene-d10	14.354	164	538090	20.000	ng	-0.02
64) Phenanthrene-d10	17.154	188	996821	20.000	ng	-0.03
76) Chrysene-d12	21.595	240	963525	20.000	ng	-0.05
86) Perylene-d12	24.948	264	1118861	20.000	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.384	112	181766	12.996	ng	0.00
7) Phenol-d6	6.960	99	218361	11.746	ng	0.01
23) Nitrobenzene-d5	8.896	82	144589	7.428	ng	0.00
42) 2,4,6-Tribromophenol	15.872	330	88502	13.186	ng	-0.04
45) 2-Fluorobiphenyl	12.966	172	337654	8.355	ng	-0.02
79) Terphenyl-d14	19.877	244	459404	8.577	ng	-0.04
Target Compounds						Qvalue
31) Naphthalene	10.560	128	322053	6.956	ng	99
33) 4-Chloroaniline	10.560	127	42707	2.213	ng	# 36
37) 2-Methylnaphthalene	12.160	142	412531	13.873	ng	97
38) 1-Methylnaphthalene	12.384	142	455685	14.370	ng	98
49) Acenaphthylene	14.078	152	695066	13.489	ng	97
52) Acenaphthene	14.425	154	183686	6.181	ng	99
54) 2,4-Dinitrophenol	14.472	184	146	4.849	ng	# 1
55) Dibenzofuran	14.760	168	165996	3.427	ng	# 88
56) 4-Nitrophenol	14.566	139	8505	5.501	ng	# 26
58) Fluorene	15.419	166	558903	14.513	ng	99
71) Phenanthrene	17.195	178	5248975	92.827	ng	99
72) Anthracene	17.289	178	1157071	20.168	ng	99
73) Carbazole	17.572	167	267441	5.014	ng	99
75) Fluoranthene	19.283	202	4634599	68.341	ng	98
78) Pyrene	19.666	202	5673212	88.242	ng	99
81) Benzo(a)anthracene	21.571	228	2437936	36.958	ng	97
83) Chrysene	21.648	228	2628337	41.799	ng	97
87) Indeno(1,2,3-cd)pyrene	28.759	276	1149512	14.128	ng	# 82
88) Benzo(b)fluoranthene	23.889	252	2425933	35.456	ng	99
89) Benzo(k)fluoranthene	23.889	252	2425933	34.746	ng	98
90) Benzo(a)pyrene	24.777	252	1857660	27.725	ng	97
91) Dibenzo(a,h)anthracene	28.789	278	341554	5.130	ng	# 88
92) Benzo(g,h,i)perylene	29.924	276	1191806	18.201	ng	98

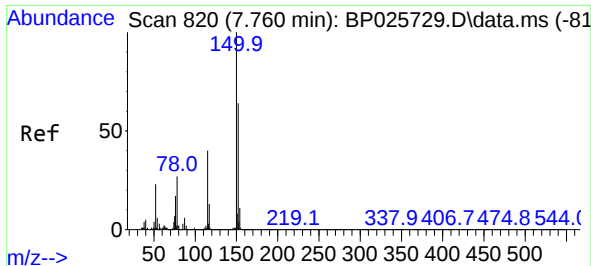
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :
ALS Vial : 12 Sample Multiplier: 1

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QLast Update : Thu Sep 11 16:45:04 2025
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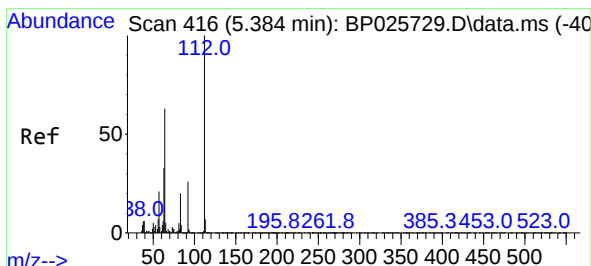
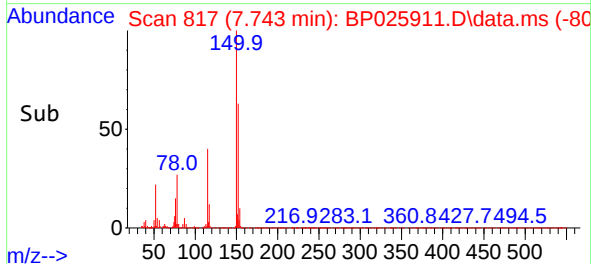
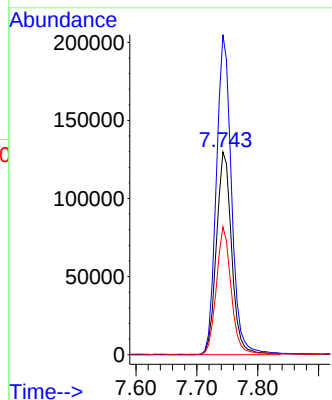
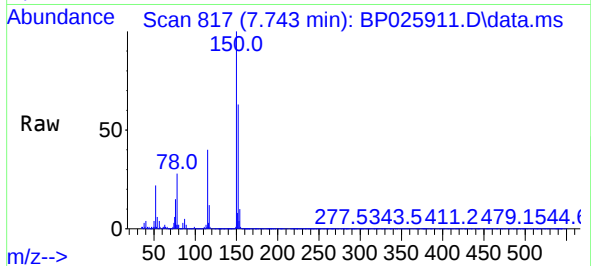




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.743 min Scan# 81
Delta R.T. -0.017 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

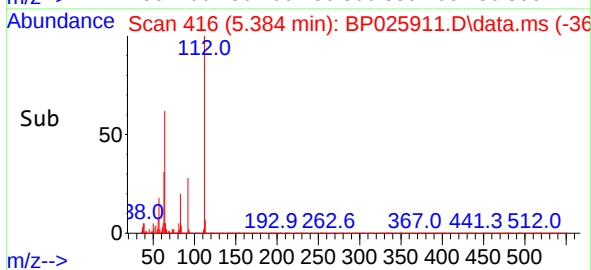
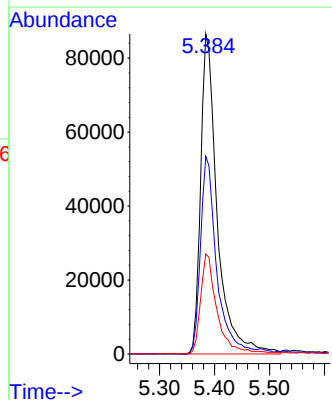
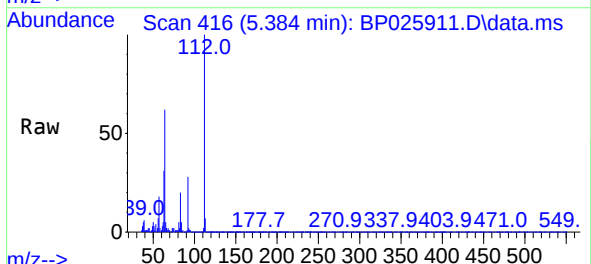
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

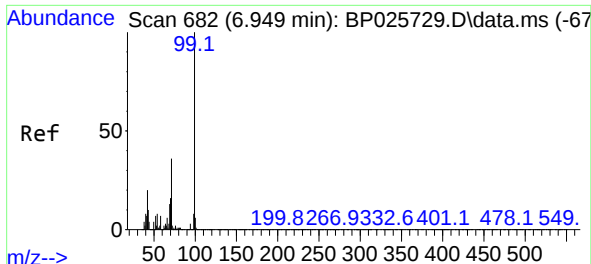
Tgt Ion:152 Resp: 225670
Ion Ratio Lower Upper
152 100
150 157.9 124.3 186.5
115 63.1 50.3 75.5



#5
2-Fluorophenol
Concen: 12.996 ng
RT: 5.384 min Scan# 416
Delta R.T. -0.000 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:112 Resp: 181766
Ion Ratio Lower Upper
112 100
64 61.8 50.2 75.4
63 31.3 26.7 40.1

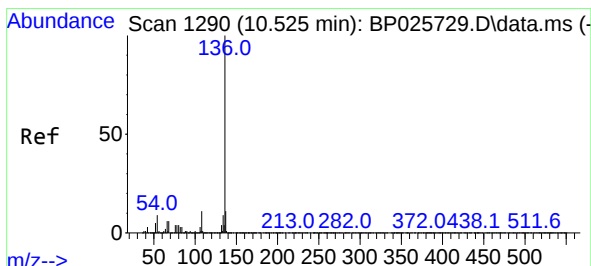
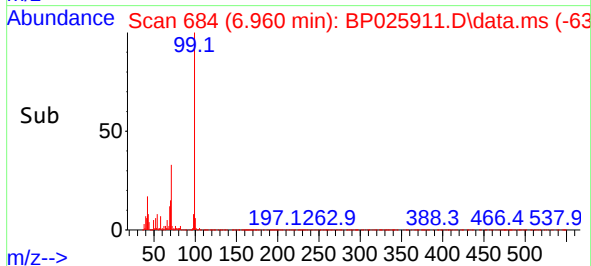
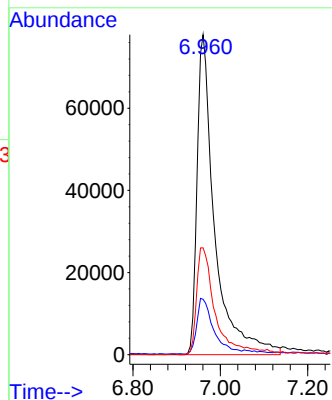
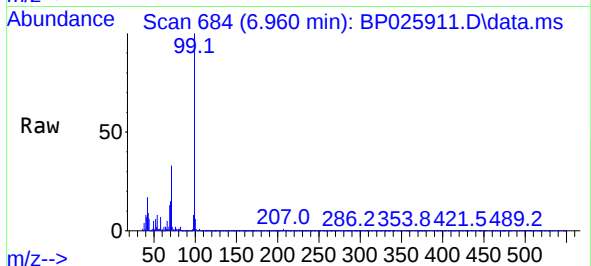




#7
Phenol-d6
Concen: 11.746 ng
RT: 6.960 min Scan# 61
Delta R.T. 0.012 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

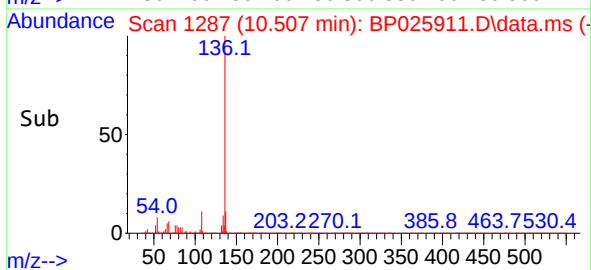
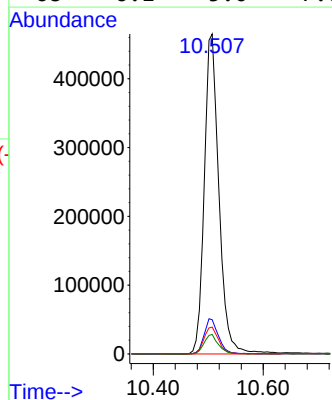
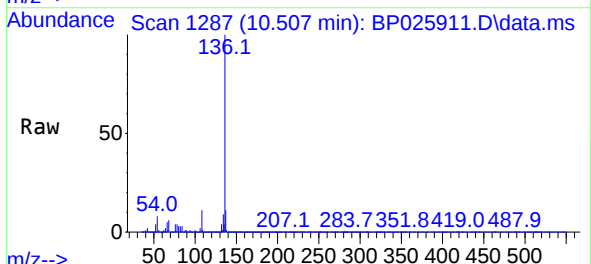
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

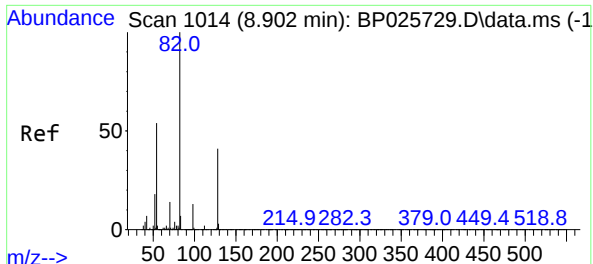
Tgt Ion: 99 Resp: 218361
Ion Ratio Lower Upper
99 100
42 17.3 15.6 23.4
71 33.4 28.6 43.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.507 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion: 136 Resp: 858656
Ion Ratio Lower Upper
136 100
137 10.7 8.7 13.1
54 8.4 7.5 11.3
68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 7.428 ng

RT: 8.896 min Scan# 1013

Delta R.T. -0.006 min

Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Instrument :

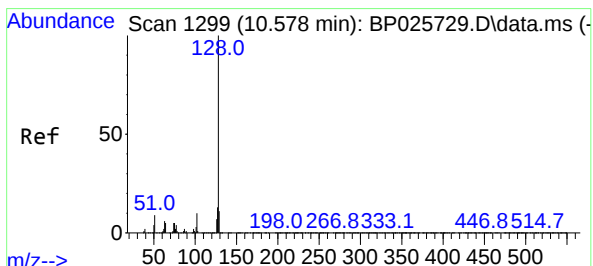
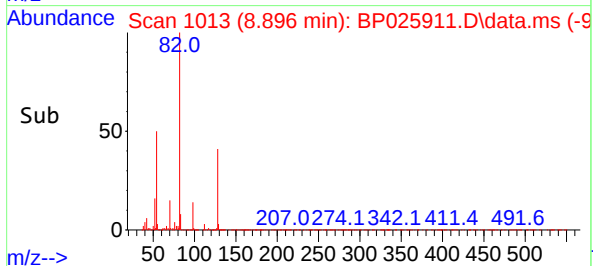
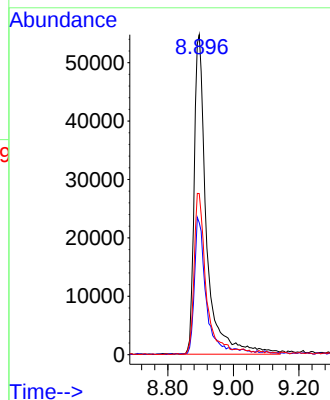
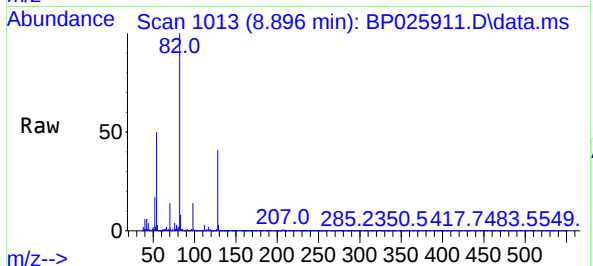
BNA_P

ClientSampleId :

SOIL-PILE-2-WC

Tgt Ion: 82 Resp: 144589

Ion	Ratio	Lower	Upper
82	100		
128	41.3	32.9	49.3
54	50.4	43.4	65.2



#31

Naphthalene

Concen: 6.956 ng

RT: 10.560 min Scan# 1296

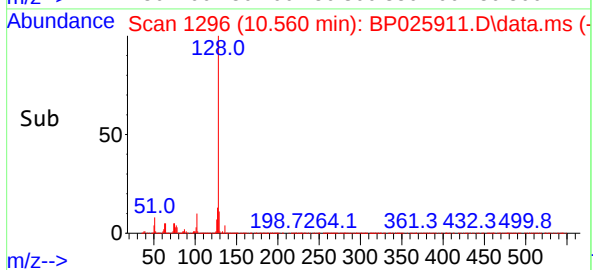
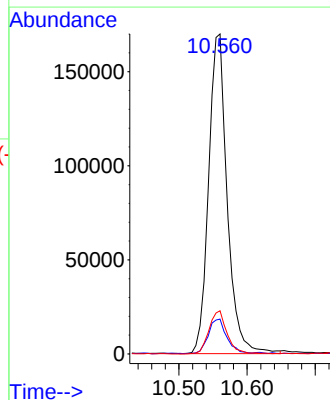
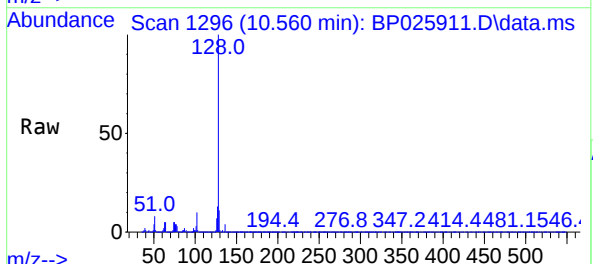
Delta R.T. -0.018 min

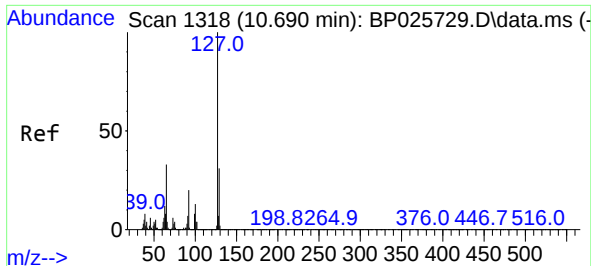
Lab File: BP025911.D

Acq: 01 Oct 2025 21:58

Tgt Ion: 128 Resp: 322053

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	12.8
127	13.5	10.2	15.4

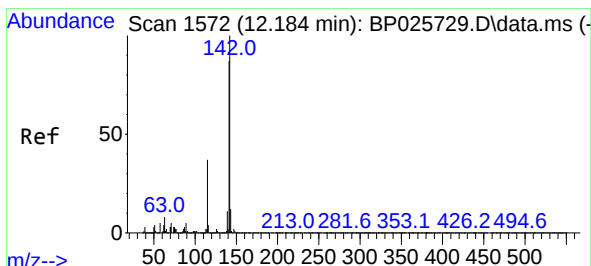
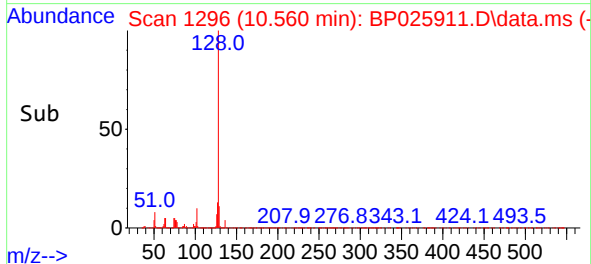
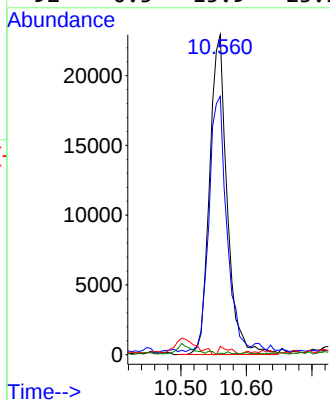
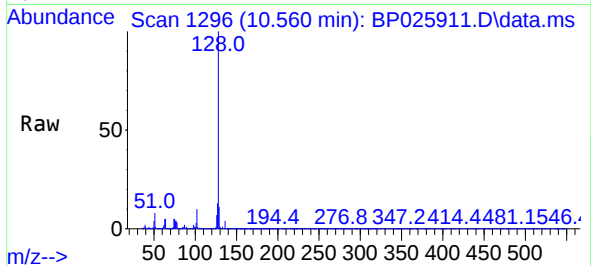




#33
4-Chloroaniline
Concen: 2.213 ng
RT: 10.560 min Scan# 11
Delta R.T. -0.130 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

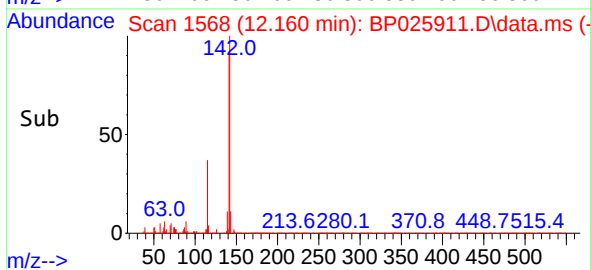
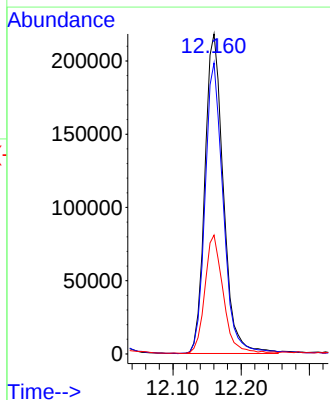
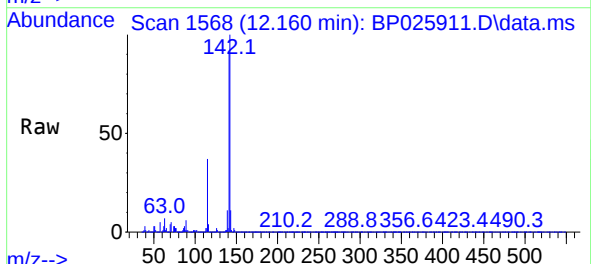
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

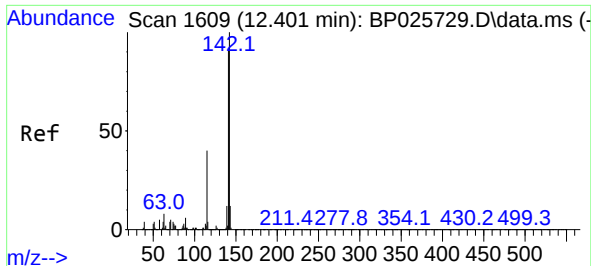
Tgt Ion:	127	Resp:	42707
Ion	Ratio	Lower	Upper
127	100		
129	80.7	25.1	37.7#
65	2.6	26.4	39.6#
92	0.5	15.9	23.9#



#37
2-Methylnaphthalene
Concen: 13.873 ng
RT: 12.160 min Scan# 1568
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:	142	Resp:	412531
Ion	Ratio	Lower	Upper
142	100		
141	90.9	69.6	104.4
115	37.2	30.0	45.0

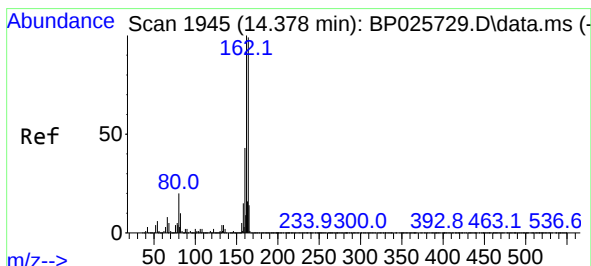
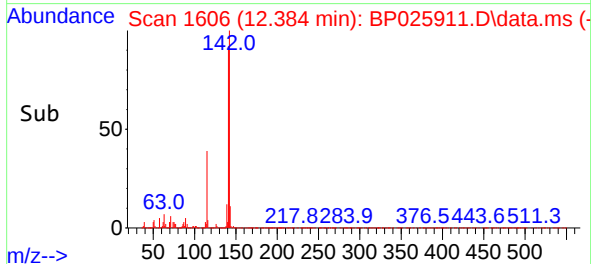
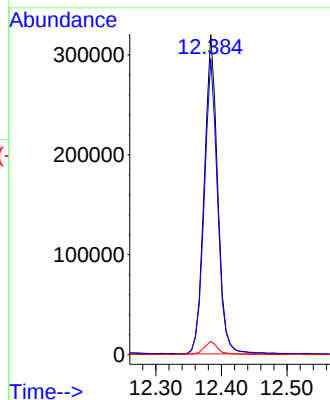
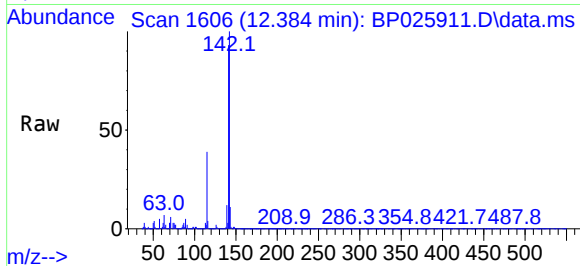




#38
1-Methylnaphthalene
Concen: 14.370 ng
RT: 12.384 min Scan# 1606
Delta R.T. -0.018 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

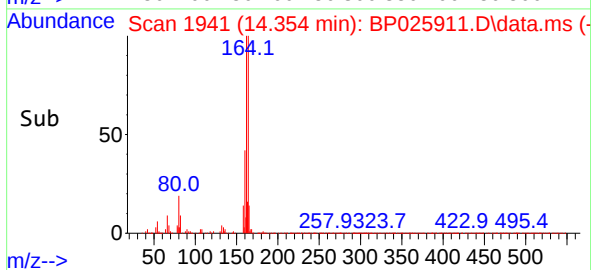
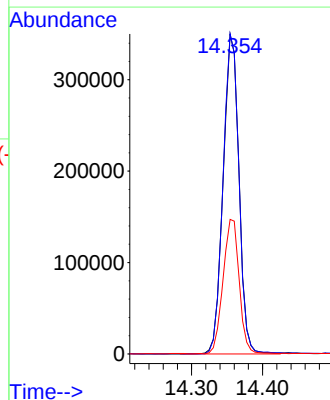
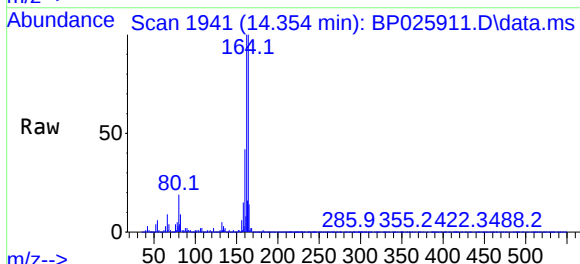
Instrument :
BNA_P
ClientSampleId :
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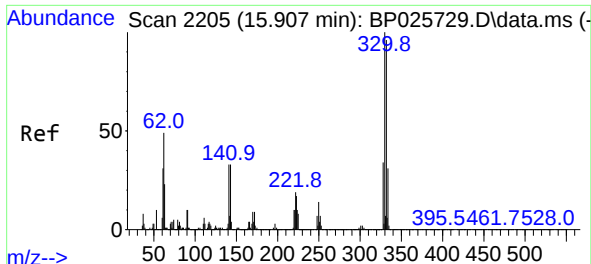
Tgt Ion:142 Resp: 455685
Ion Ratio Lower Upper
142 100
141 92.5 72.7 109.1
116 4.1 3.5 5.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.354 min Scan# 1941
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:164 Resp: 538090
Ion Ratio Lower Upper
164 100
162 100.1 80.6 120.8
160 42.1 35.0 52.6

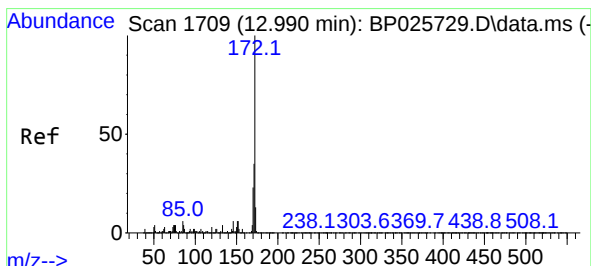
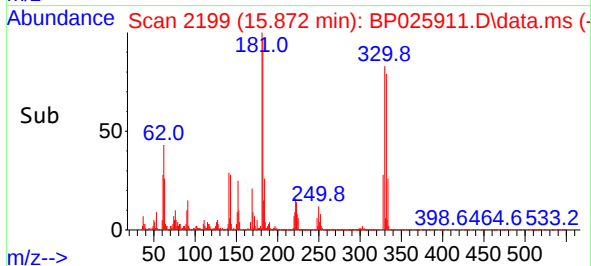
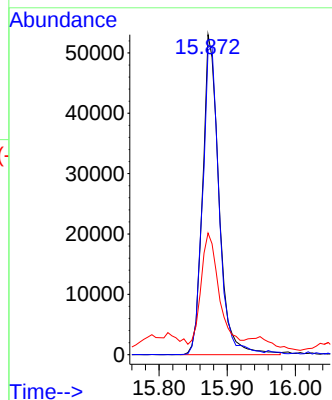
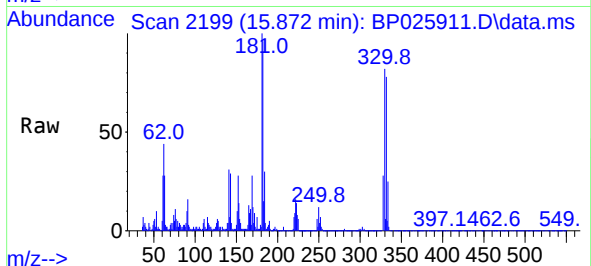




#42
2,4,6-Tribromophenol
Concen: 13.186 ng
RT: 15.872 min Scan# 21
Delta R.T. -0.035 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

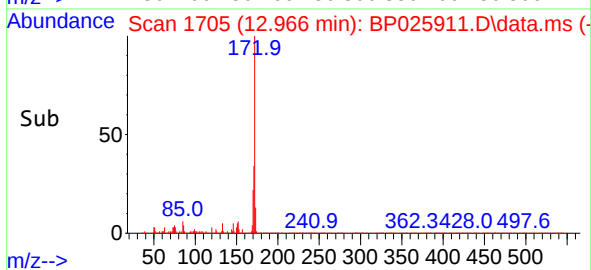
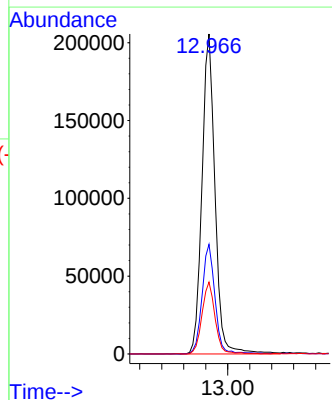
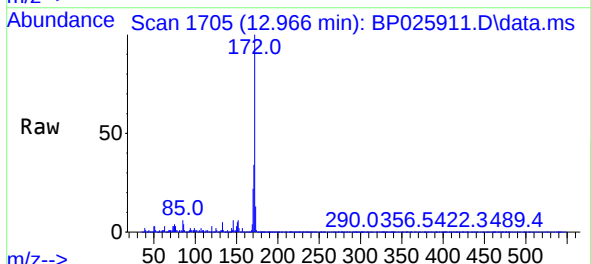
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

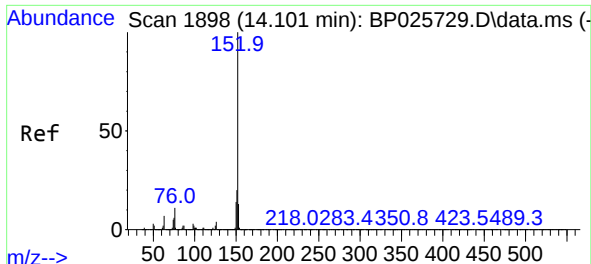
Tgt Ion:330 Resp: 88502
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 37.1 31.0 46.4



#45
2-Fluorobiphenyl
Concen: 8.355 ng
RT: 12.966 min Scan# 1705
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:172 Resp: 337654
Ion Ratio Lower Upper
172 100
171 34.2 27.8 41.6
170 22.5 18.6 27.8

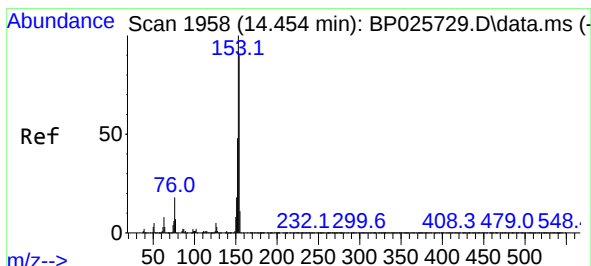
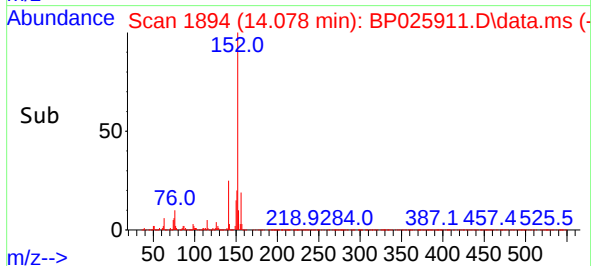
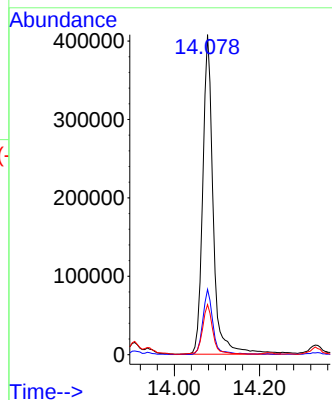
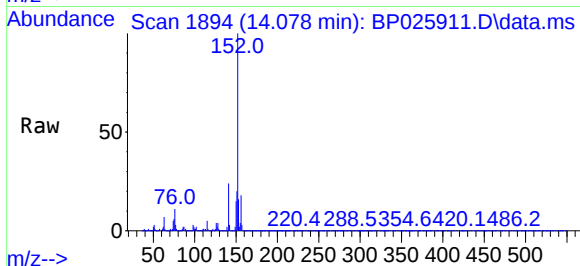




#49
Acenaphthylene
Concen: 13.489 ng
RT: 14.078 min Scan# 1894
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

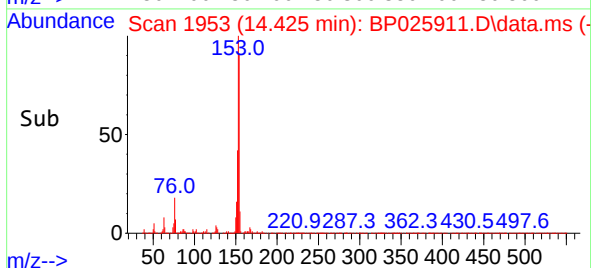
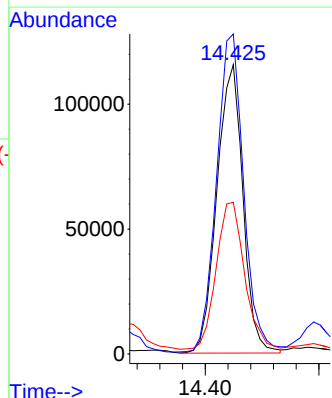
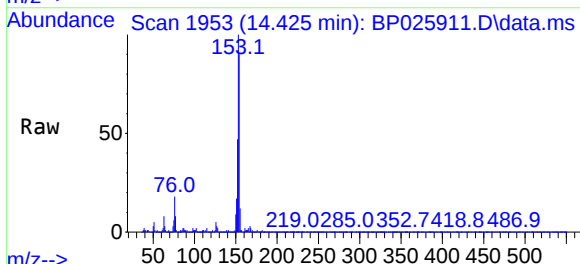
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

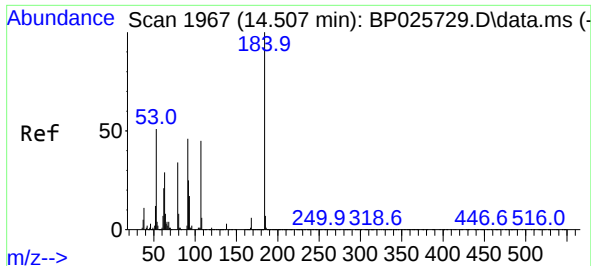
Tgt Ion:152 Resp: 695066
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.6
153 15.6 10.5 15.7



#52
Acenaphthene
Concen: 6.181 ng
RT: 14.425 min Scan# 1953
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:154 Resp: 183686
Ion Ratio Lower Upper
154 100
153 110.6 89.4 134.0
152 52.4 42.5 63.7

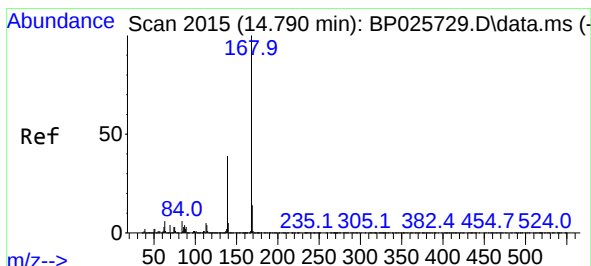
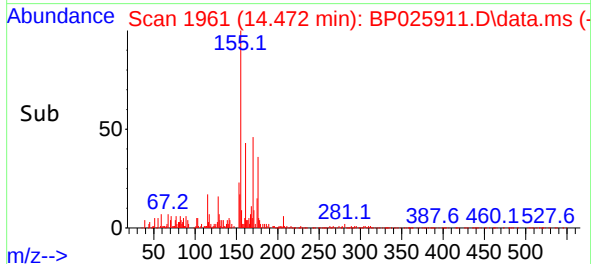
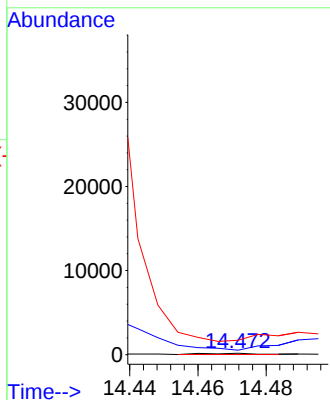
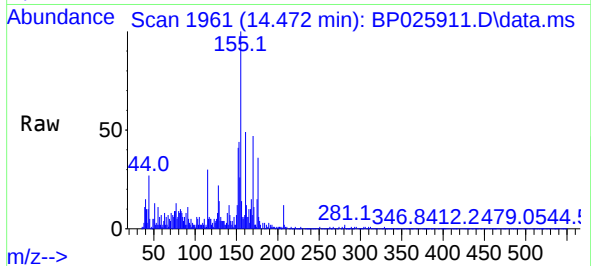




#54
2,4-Dinitrophenol
Concen: 4.849 ng
RT: 14.472 min Scan# 1967
Delta R.T. -0.035 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

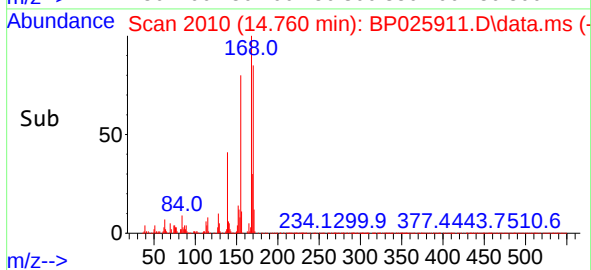
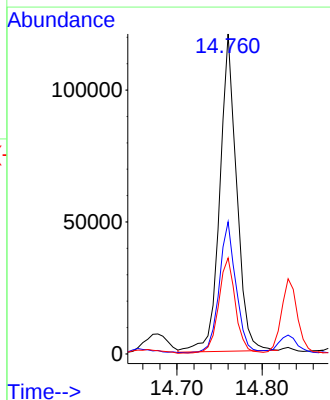
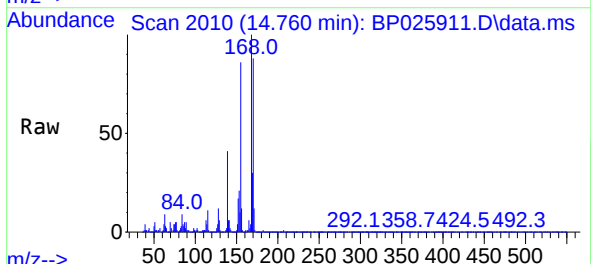
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

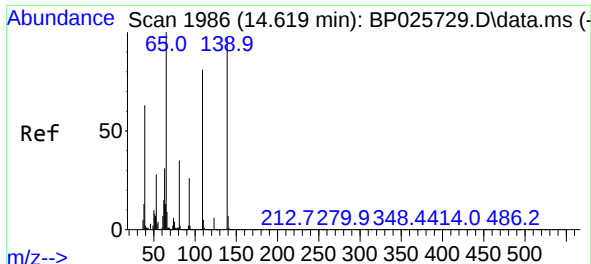
Tgt Ion:184 Resp: 146
Ion Ratio Lower Upper
184 100
63 307.6 52.5 78.7#
154 998.3 51.5 77.3#



#55
Dibenzofuran
Concen: 3.427 ng
RT: 14.760 min Scan# 2010
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:168 Resp: 165996
Ion Ratio Lower Upper
168 100
139 41.3 31.7 47.5
169 30.0 10.8 16.2#

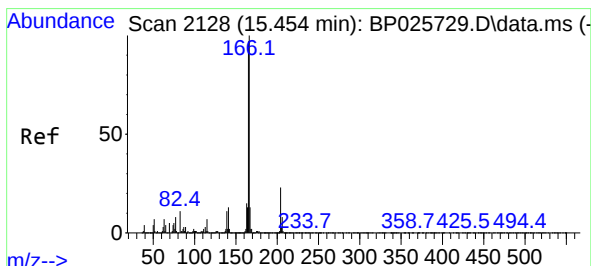
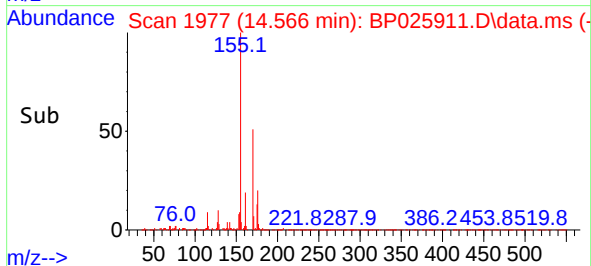
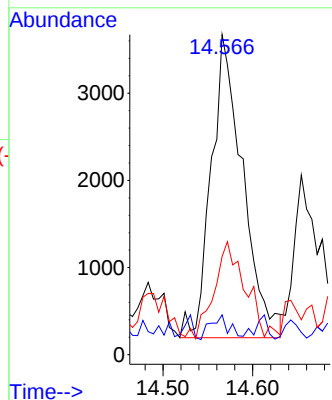
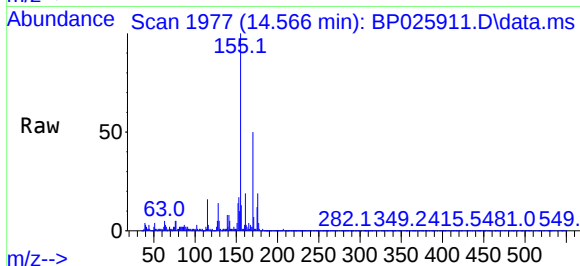




#56
4-Nitrophenol
Concen: 5.501 ng
RT: 14.566 min Scan# 1986
Delta R.T. -0.053 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

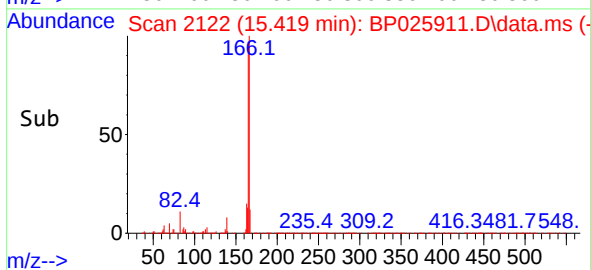
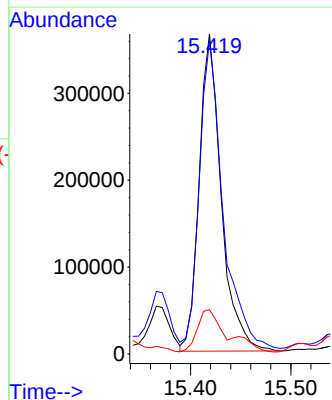
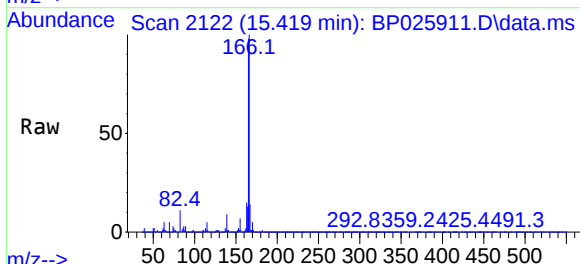
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

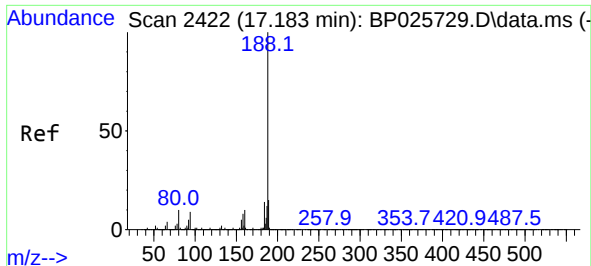
Tgt Ion:139 Resp: 8505
Ion Ratio Lower Upper
139 100
109 12.4 62.9 102.9#
65 30.7 83.4 123.4#



#58
Fluorene
Concen: 14.513 ng
RT: 15.419 min Scan# 2122
Delta R.T. -0.035 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:166 Resp: 558903
Ion Ratio Lower Upper
166 100
165 97.9 77.7 116.5
167 13.9 10.6 16.0

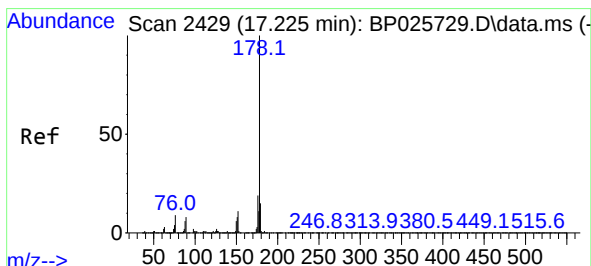
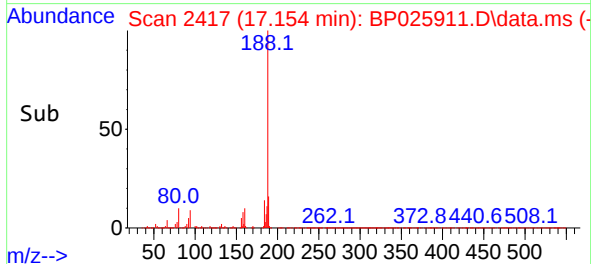
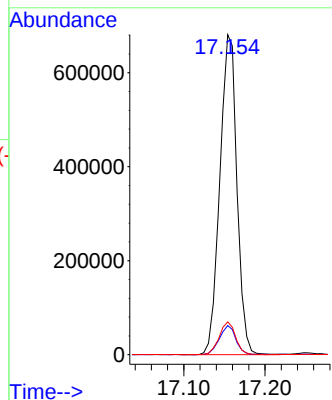
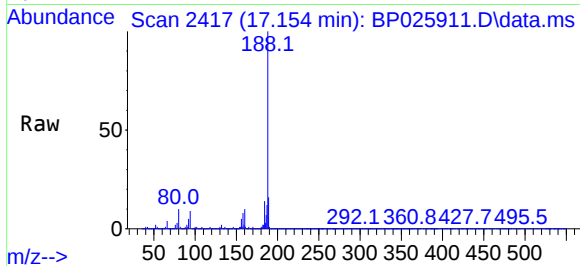




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.154 min Scan# 2417
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

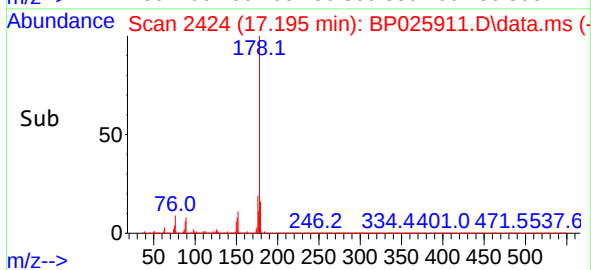
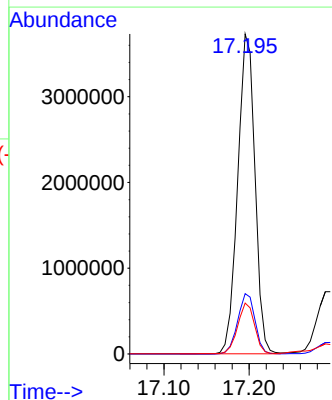
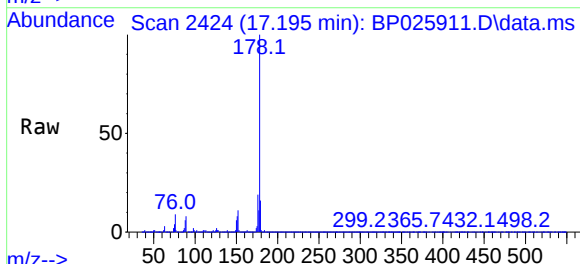
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

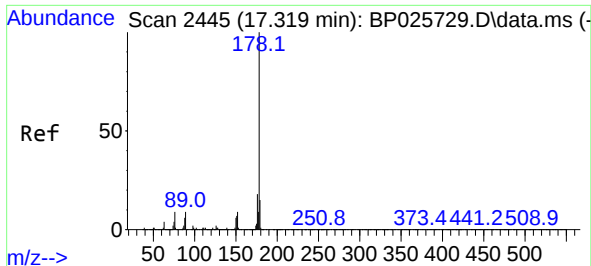
Tgt Ion:188 Resp: 996821
Ion Ratio Lower Upper
188 100
94 9.1 7.4 11.0
80 10.2 7.7 11.5



#71
Phenanthrene
Concen: 92.827 ng
RT: 17.195 min Scan# 2424
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:178 Resp: 5248975
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.9 12.2 18.4

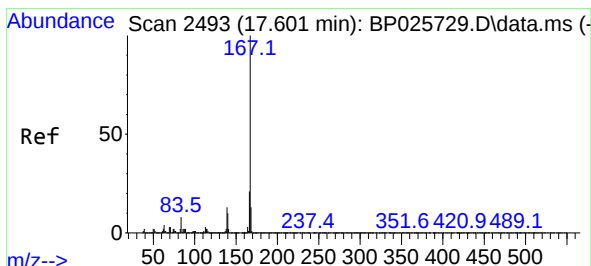
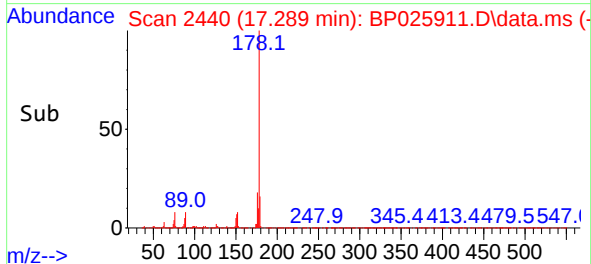
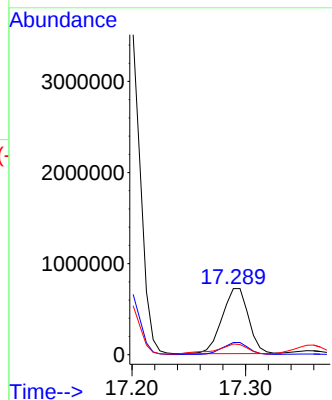
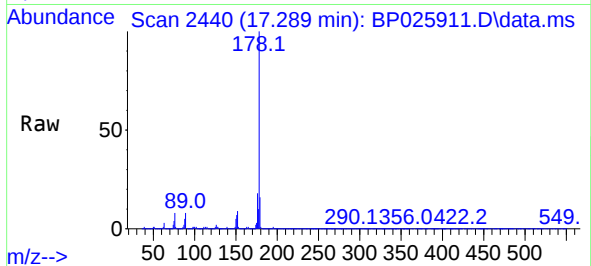




#72
 Anthracene
 Concen: 20.168 ng
 RT: 17.289 min Scan# 2445
 Delta R.T. -0.030 min
 Lab File: BP025911.D
 Acq: 01 Oct 2025 21:58

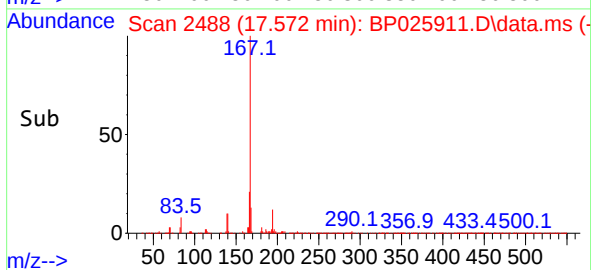
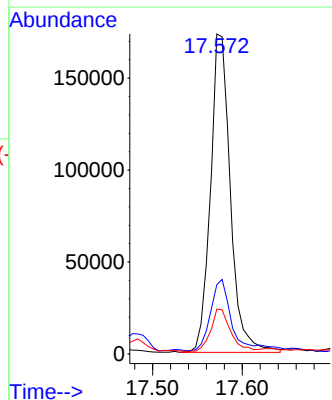
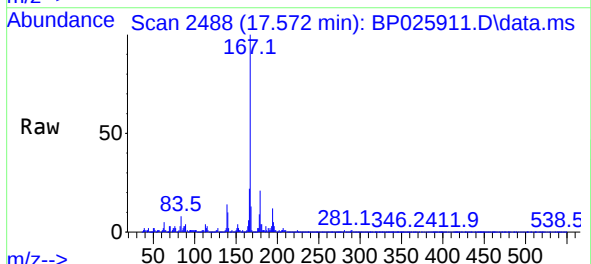
Instrument :
 BNA_P
 ClientSampleId :
 SOIL-PILE-2-WC

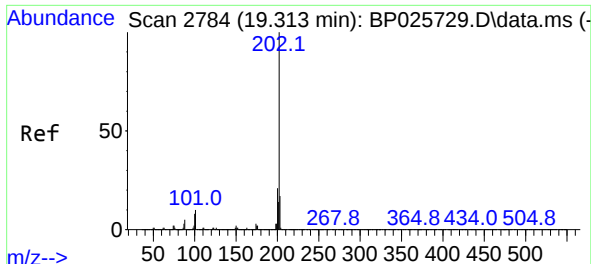
Tgt Ion:178 Resp: 1157071
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.8 22.2
 179 16.2 12.2 18.4



#73
 Carbazole
 Concen: 5.014 ng
 RT: 17.572 min Scan# 2488
 Delta R.T. -0.030 min
 Lab File: BP025911.D
 Acq: 01 Oct 2025 21:58

Tgt Ion:167 Resp: 267441
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.0 25.4
 139 14.0 10.6 16.0

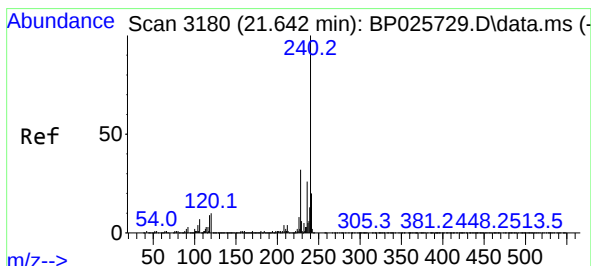
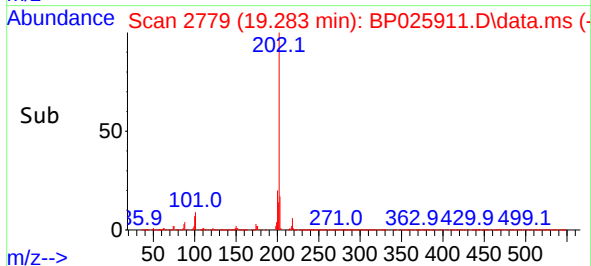
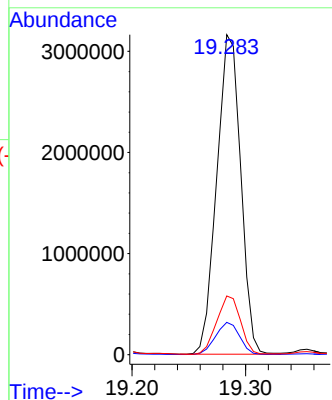
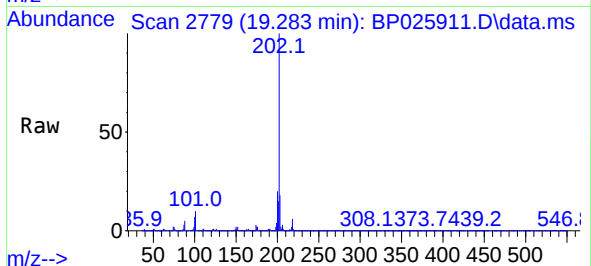




#75
Fluoranthene
Concen: 68.341 ng
RT: 19.283 min Scan# 21
Delta R.T. -0.030 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

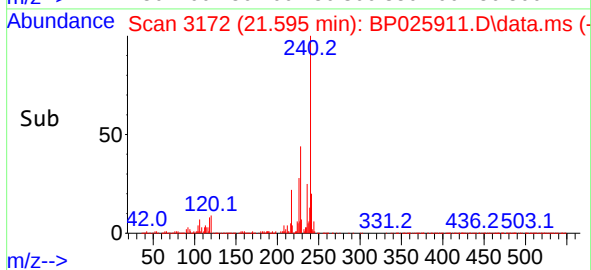
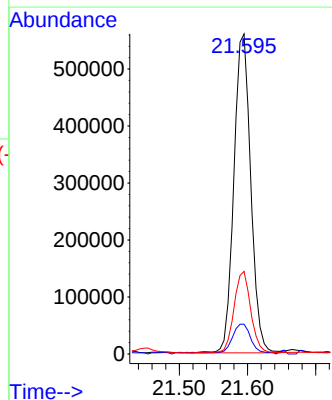
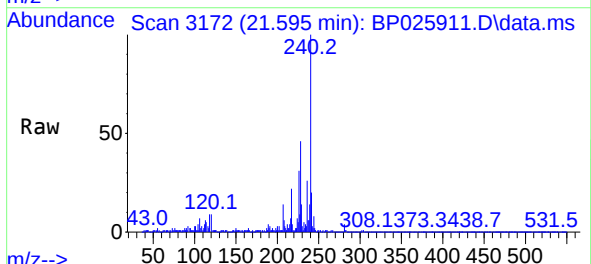
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

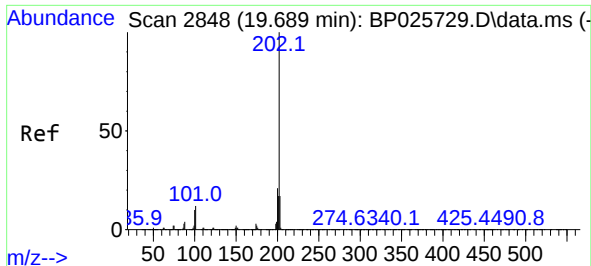
Tgt Ion:202 Resp: 4634599
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.4
203 18.3 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.595 min Scan# 3172
Delta R.T. -0.047 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:240 Resp: 963525
Ion Ratio Lower Upper
240 100
120 9.3 8.0 12.0
236 25.8 20.7 31.1

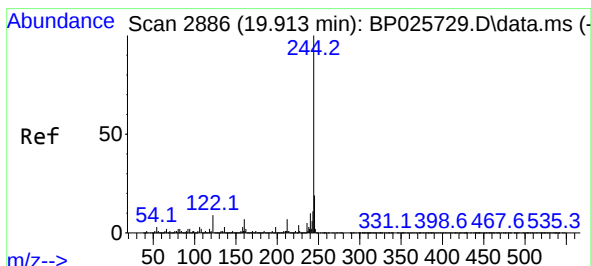
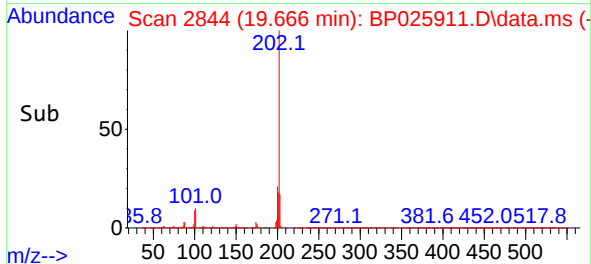
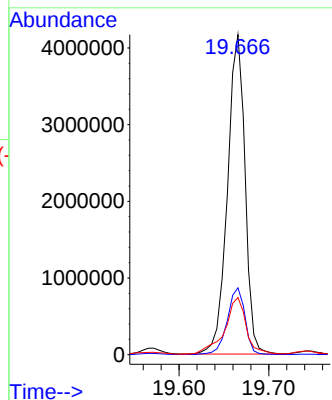
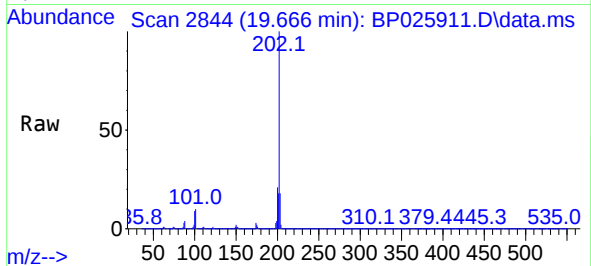




#78
Pyrene
Concen: 88.242 ng
RT: 19.666 min Scan# 2844
Delta R.T. -0.024 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

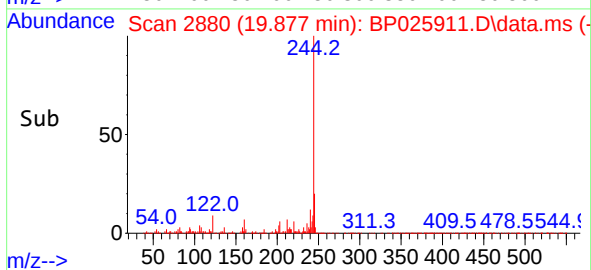
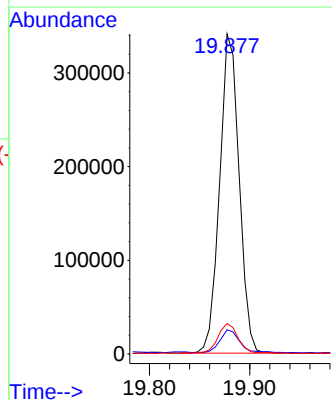
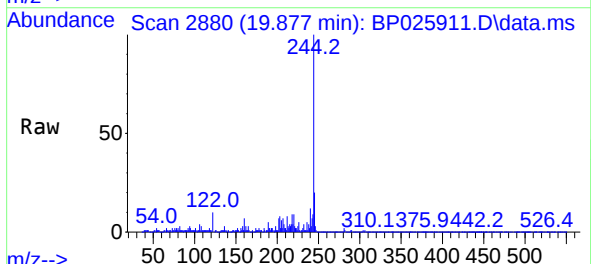
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

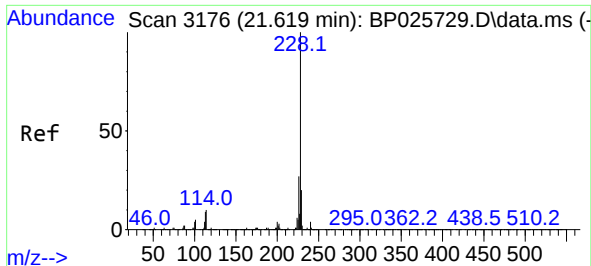
Tgt Ion:202 Resp: 5673212
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 17.8 13.9 20.9



#79
Terphenyl-d14
Concen: 8.577 ng
RT: 19.877 min Scan# 2880
Delta R.T. -0.035 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:244 Resp: 459404
Ion Ratio Lower Upper
244 100
212 7.5 5.9 8.9
122 9.5 7.1 10.7

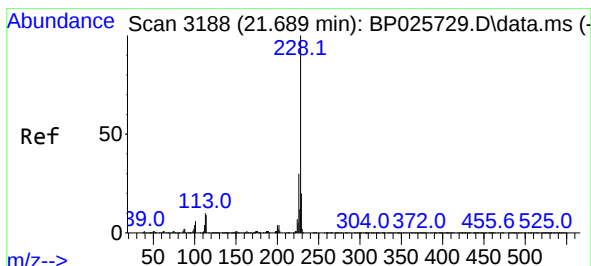
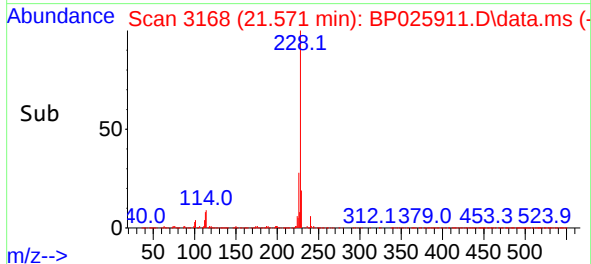
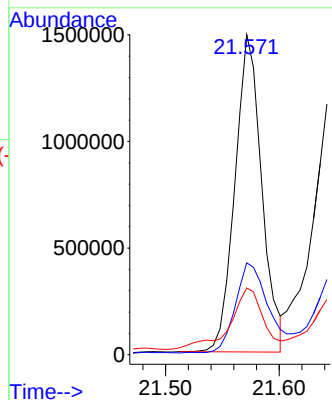
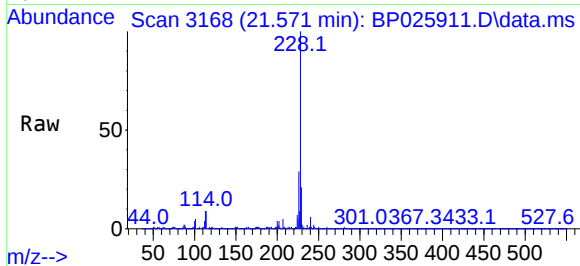




#81
Benzo(a)anthracene
Concen: 36.958 ng
RT: 21.571 min Scan# 3176
Delta R.T. -0.047 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

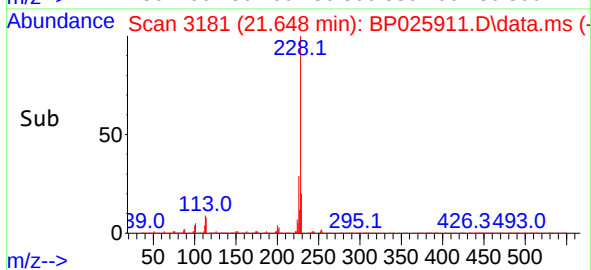
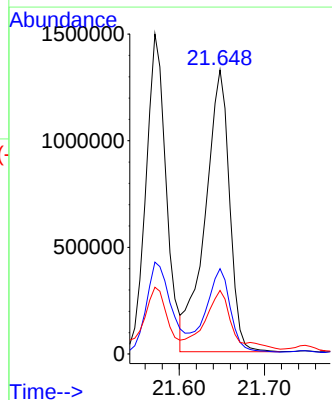
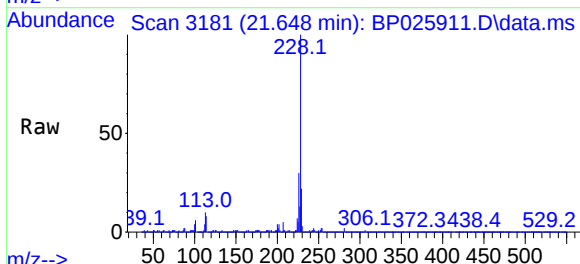
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

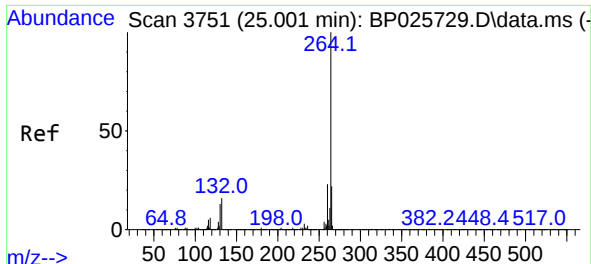
Tgt Ion:228 Resp: 2437936
Ion Ratio Lower Upper
228 100
226 28.7 21.6 32.4
229 20.8 15.7 23.5



#83
Chrysene
Concen: 41.799 ng
RT: 21.648 min Scan# 3181
Delta R.T. -0.041 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:228 Resp: 2628337
Ion Ratio Lower Upper
228 100
226 30.0 23.8 35.6
229 22.3 15.6 23.4

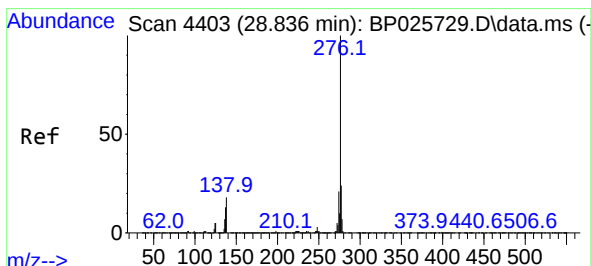
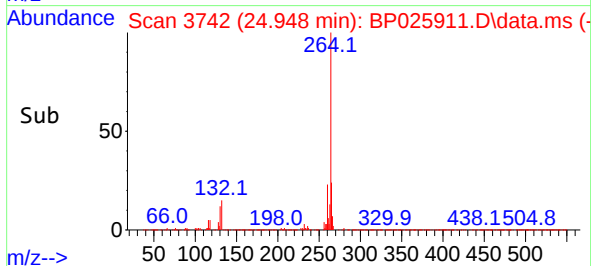
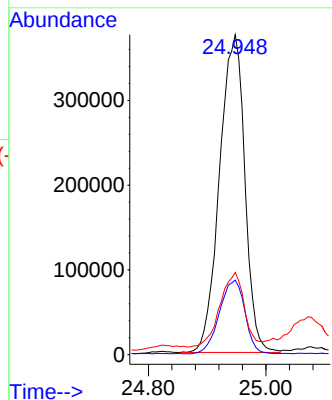
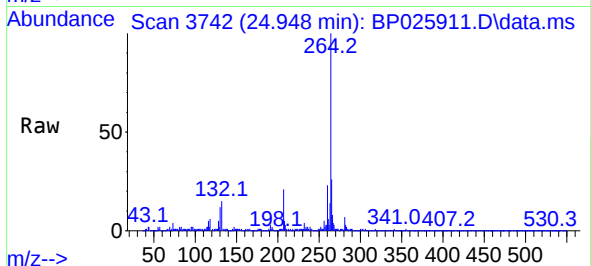




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.948 min Scan# 31
Delta R.T. -0.053 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

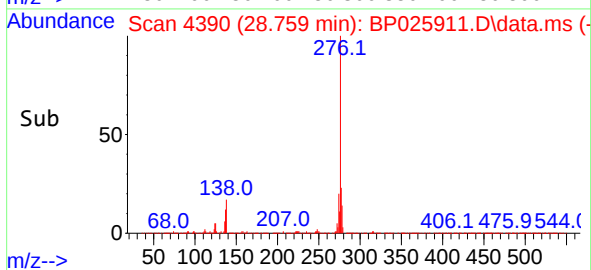
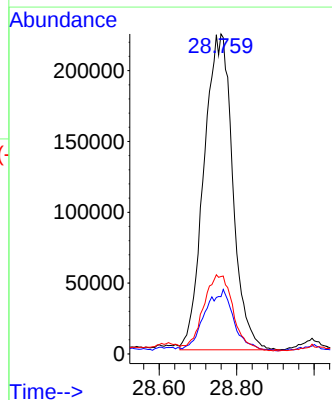
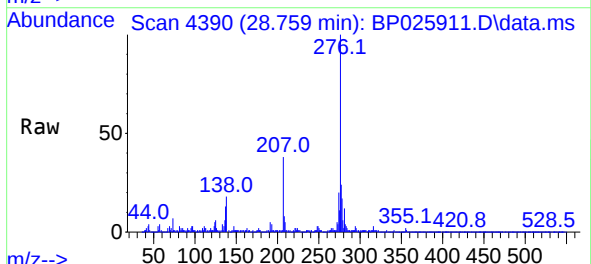
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

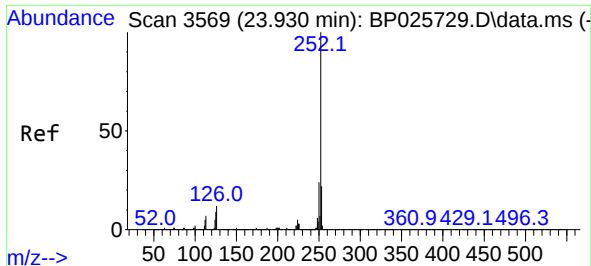
Tgt Ion:264 Resp: 1118861
Ion Ratio Lower Upper
264 100
260 23.3 18.3 27.5
265 25.7 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 14.128 ng
RT: 28.759 min Scan# 4390
Delta R.T. -0.077 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:276 Resp: 1149512
Ion Ratio Lower Upper
276 100
138 19.7 13.4 20.2
277 24.9 9.1 13.7#

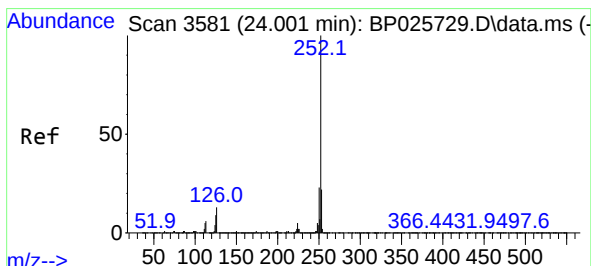
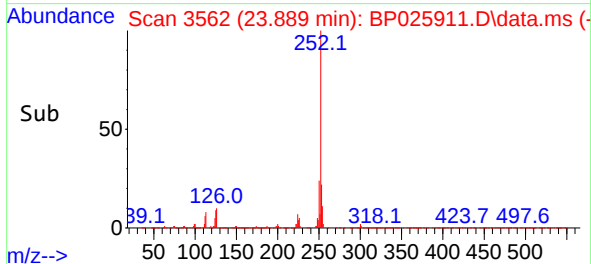
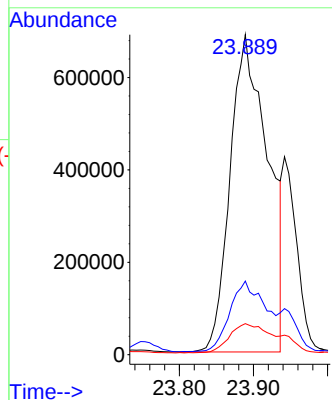
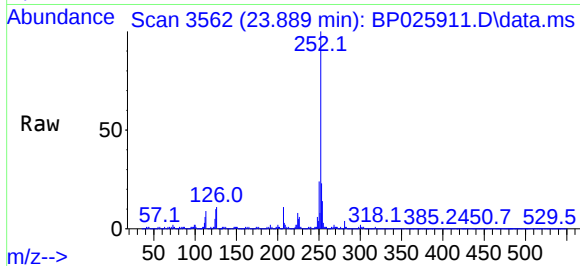




#88
Benzo(b)fluoranthene
Concen: 35.456 ng
RT: 23.889 min Scan# 3562
Delta R.T. -0.041 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

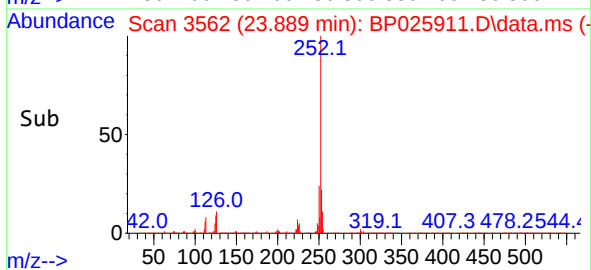
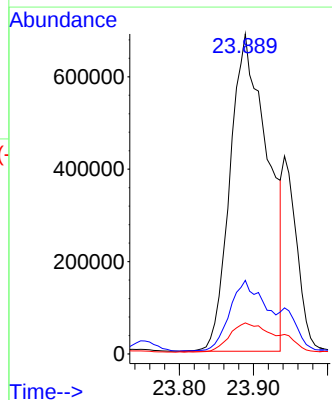
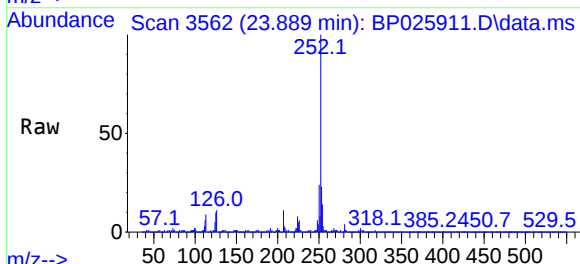
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

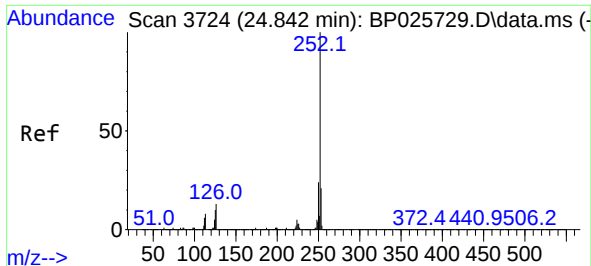
Tgt Ion:252 Resp: 2425933
Ion Ratio Lower Upper
252 100
253 23.0 17.9 26.9
125 9.7 7.3 10.9



#89
Benzo(k)fluoranthene
Concen: 34.746 ng
RT: 23.889 min Scan# 3562
Delta R.T. -0.112 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Tgt Ion:252 Resp: 2425933
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 9.7 7.5 11.3

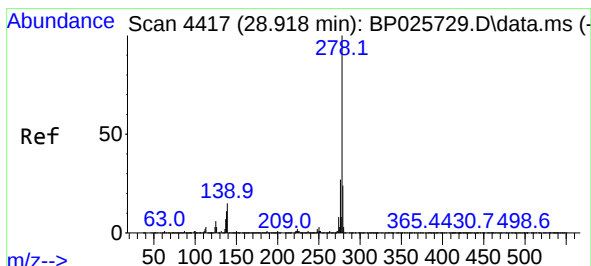
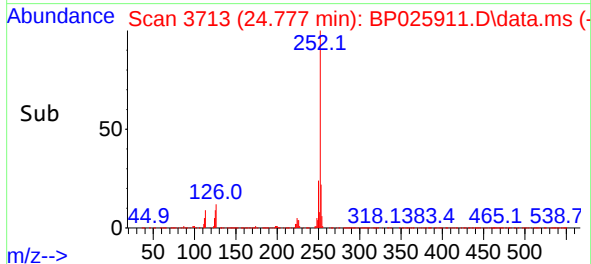
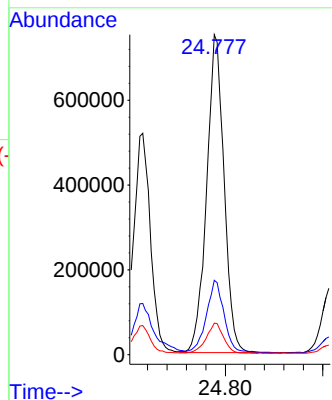
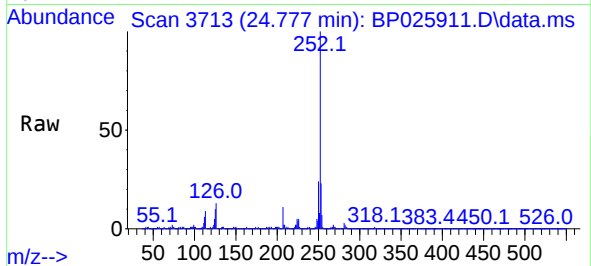




#90
Benzo(a)pyrene
Concen: 27.725 ng
RT: 24.777 min Scan# 31
Delta R.T. -0.065 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

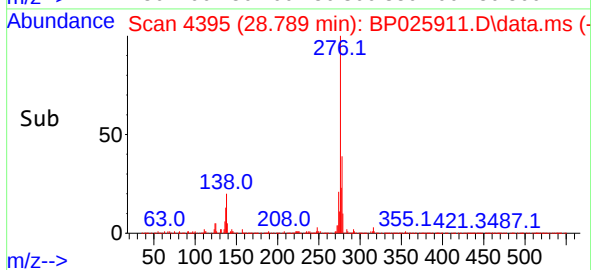
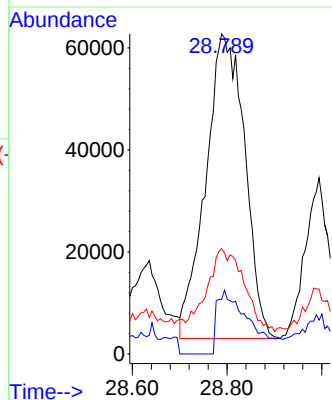
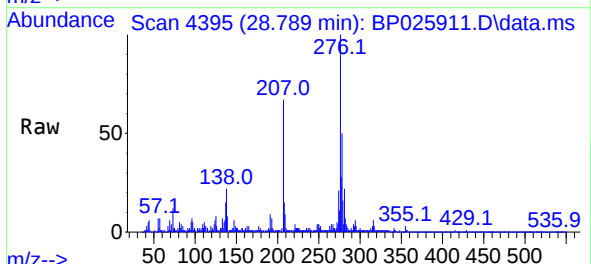
Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC

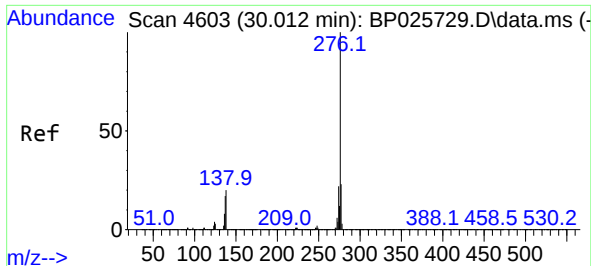
Tgt Ion:252 Resp: 1857660
Ion Ratio Lower Upper
252 100
253 23.2 17.2 25.8
125 9.9 8.3 12.5



#91
Dibenzo(a,h)anthracene
Concen: 5.130 ng
RT: 28.789 min Scan# 4395
Delta R.T. -0.130 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

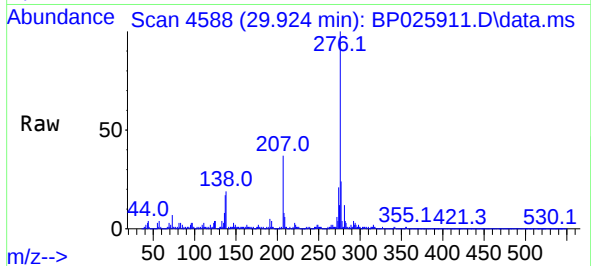
Tgt Ion:278 Resp: 341554
Ion Ratio Lower Upper
278 100
139 17.1 12.1 18.1
279 32.9 19.6 29.4#





#92
Benzo(g,h,i)perylene
Concen: 18.201 ng
RT: 29.924 min Scan# 4
Delta R.T. -0.088 min
Lab File: BP025911.D
Acq: 01 Oct 2025 21:58

Instrument :
BNA_P
ClientSampleId :
SOIL-PILE-2-WC



Tgt Ion:276 Resp: 1191806
Ion Ratio Lower Upper
276 100
277 23.9 18.7 28.1
138 18.9 16.0 24.0

