

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
 Data File : BP024896.D
 Acq On : 10 Jun 2025 16:27
 Operator : RC/JU
 Sample : Q2161-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 B28-SOIL-SAMPLE

Quant Time: Jun 10 17:01:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 06 16:20:27 2025
 Response via : Initial Calibration

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

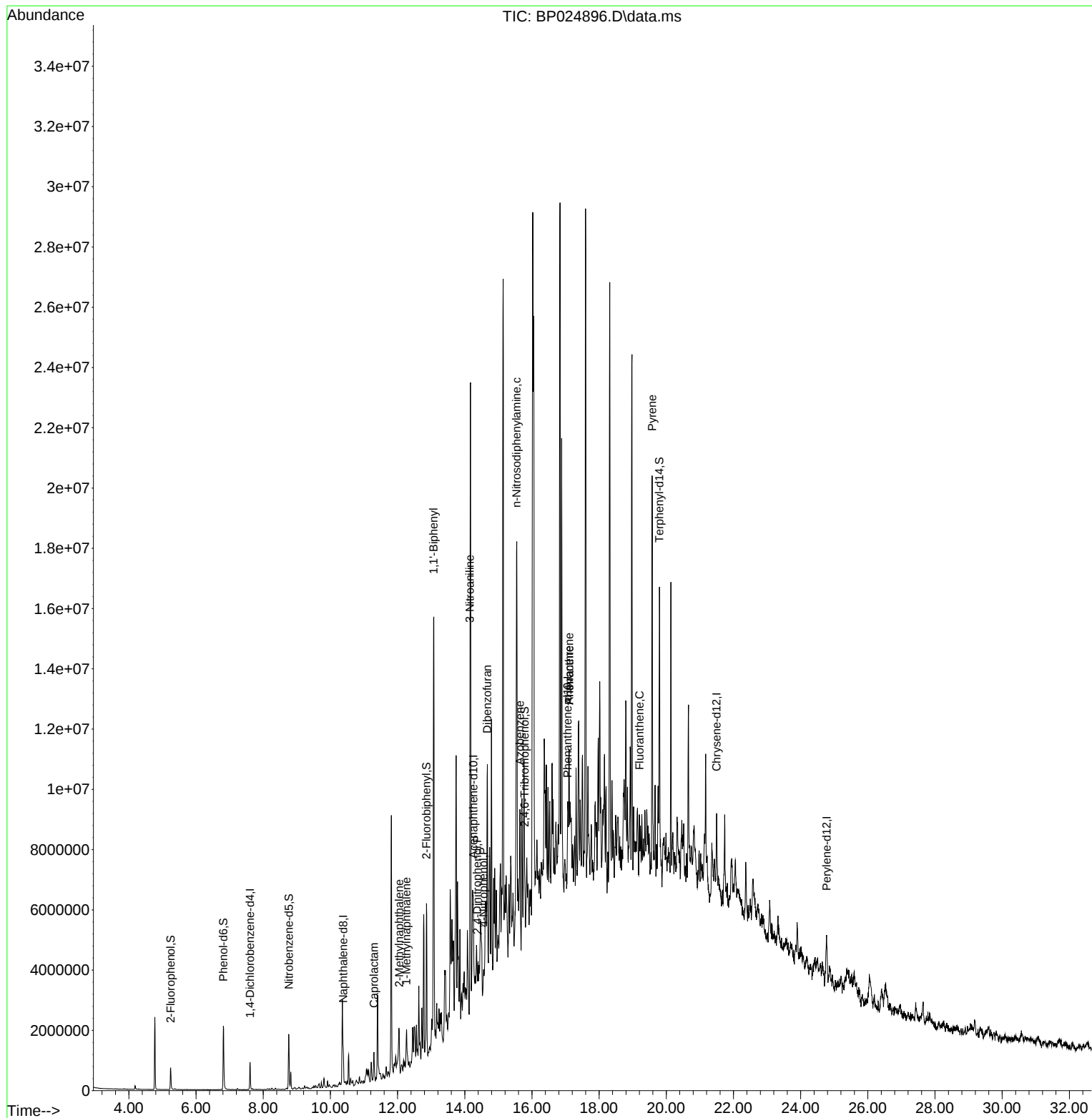
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	237363	20.000	ng	0.00
21) Naphthalene-d8	10.378	136	964853	20.000	ng	0.00
39) Acenaphthene-d10	14.254	164	570354	20.000	ng	0.00
64) Phenanthrene-d10	17.060	188	1053635	20.000	ng	# 0.00
76) Chrysene-d12	21.495	240	1210292	20.000	ng	0.01
86) Perylene-d12	24.771	264	1478197	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	356235	25.051	ng	0.00
7) Phenol-d6	6.813	99	1406621	74.762	ng	0.00
23) Nitrobenzene-d5	8.760	82	1117348	56.273	ng	0.00
42) 2,4,6-Tribromophenol	15.783	330	81331	10.314	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	2530589	59.770	ng	0.00
79) Terphenyl-d14	19.795	244	4145908	61.394	ng	0.00
Target Compounds						Qvalue
35) Caprolactam	11.295	113	16410	3.119	ng	# 1
37) 2-Methylnaphthalene	12.048	142	588726	18.771	ng	99
38) 1-Methylnaphthalene	12.266	142	460580	13.736	ng	99
46) 1,1'-Biphenyl	13.072	154	210158	5.070	ng	95
53) 3-Nitroaniline	14.154	138	23727	2.521	ng	# 30
54) 2,4-Dinitrophenol	14.372	184	1896	5.862	ng	# 1
55) Dibenzofuran	14.666	168	226504	4.636	ng	# 1
56) 4-Nitrophenol	14.554	139	19978	7.747	ng	# 8
63) Azobenzene	15.642	77	221964	5.772	ng	# 1
66) n-Nitrosodiphenylamine	15.542	169	808654	24.761	ng	# 41
71) Phenanthrene	17.107	178	2482513	42.636	ng	97
72) Anthracene	17.107	178	2482513	42.099	ng	97
75) Fluoranthene	19.201	202	164178	2.433	ng	69
78) Pyrene	19.577	202	431717	5.710	ng	# 91

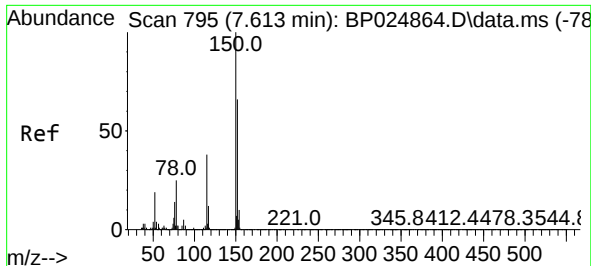
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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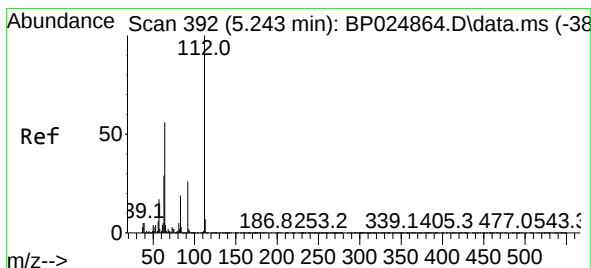
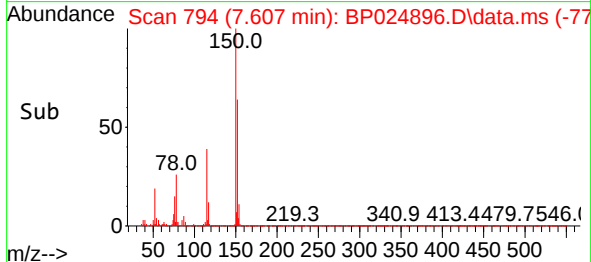
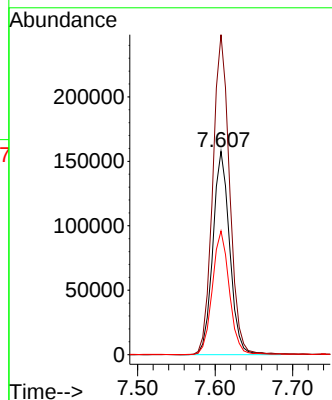
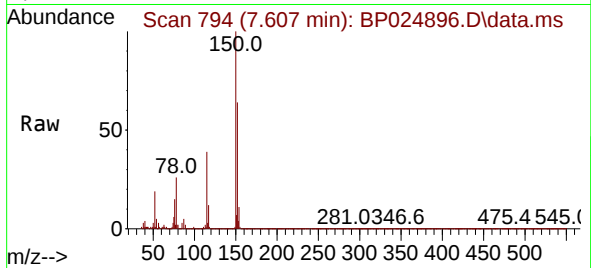




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.607 min Scan# 795
Delta R.T. -0.006 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

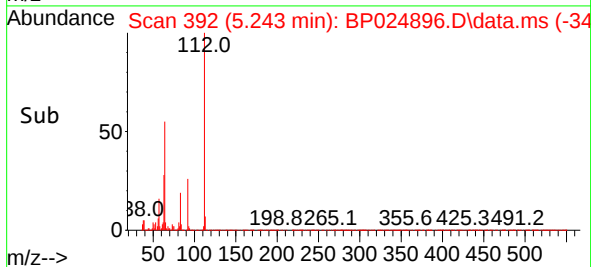
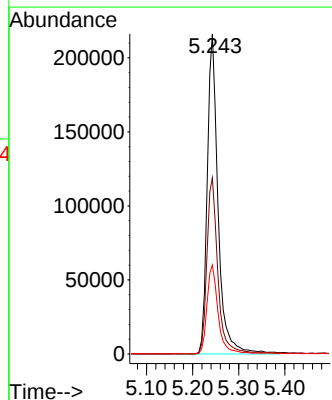
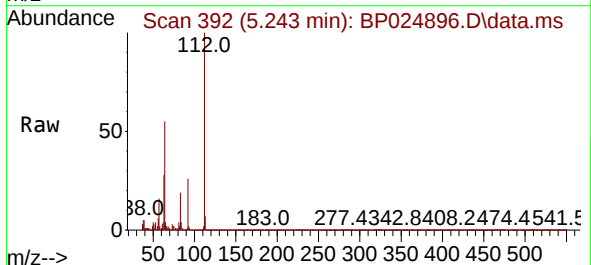
Instrument :
BNA_P
ClientSampleId :
B28-SOIL-SAMPLE

Tgt Ion:152 Resp: 237363
Ion Ratio Lower Upper
152 100
150 157.4 122.1 183.1
115 60.8 46.4 69.6



#5
2-Fluorophenol
Concen: 25.051 ng
RT: 5.243 min Scan# 392
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:112 Resp: 356235
Ion Ratio Lower Upper
112 100
64 55.0 44.7 67.1
63 27.8 23.5 35.3

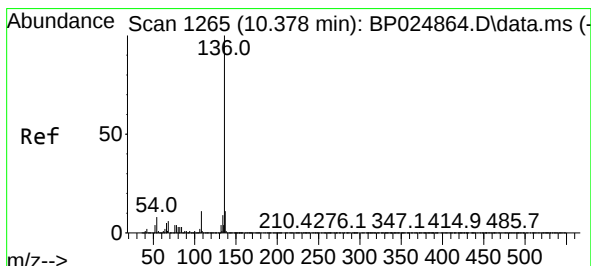
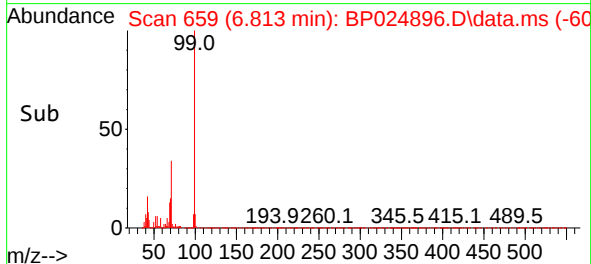
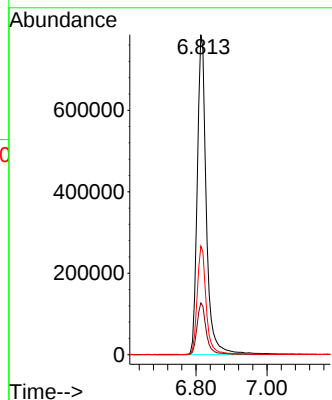
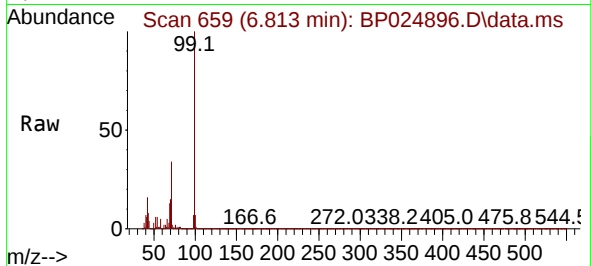




#7
Phenol-d6
Concen: 74.762 ng
RT: 6.813 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

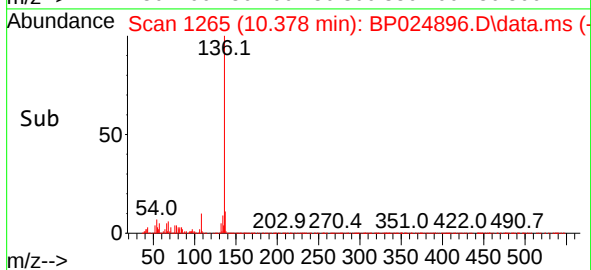
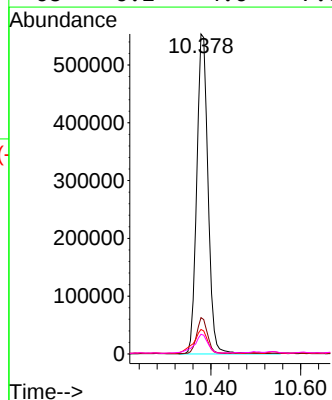
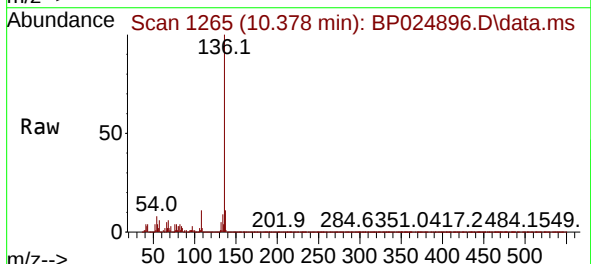
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ClientSampleId :
B28-SOIL-SAMPLE

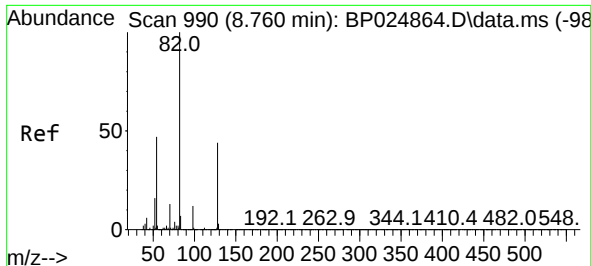
Tgt Ion: 99 Resp: 1406621
Ion Ratio Lower Upper
99 100
42 16.2 13.4 20.2
71 33.9 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.378 min Scan# 1265
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

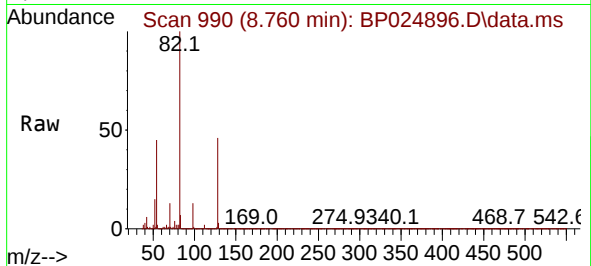
Tgt Ion: 136 Resp: 964853
Ion Ratio Lower Upper
136 100
137 11.4 8.9 13.3
54 7.6 6.1 9.1
68 6.2 4.6 7.0



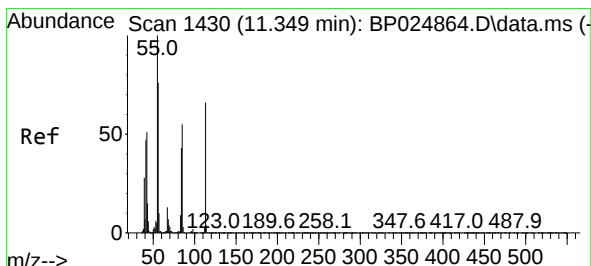
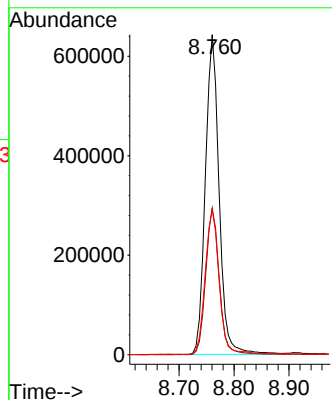
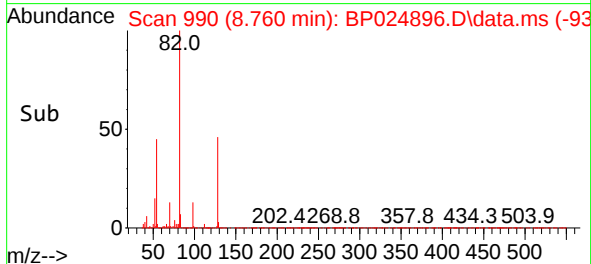


#23
Nitrobenzene-d5
Concen: 56.273 ng
RT: 8.760 min Scan# 990
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

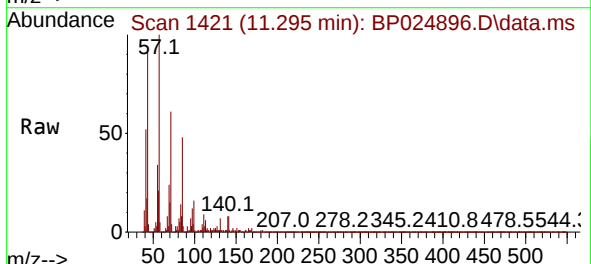
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ClientSampleId :
B28-SOIL-SAMPLE



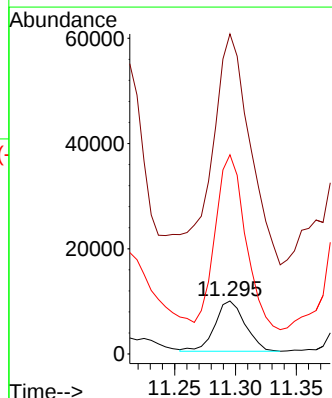
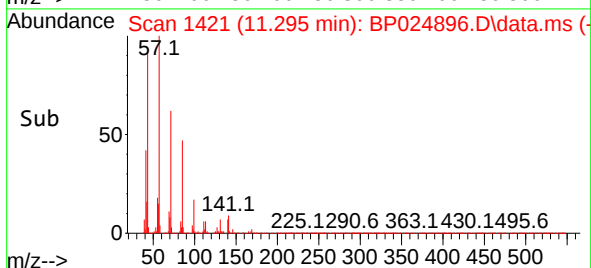
Tgt Ion: 82 Resp: 1117348
Ion Ratio Lower Upper
82 100
128 45.8 35.3 52.9
54 45.4 37.4 56.0

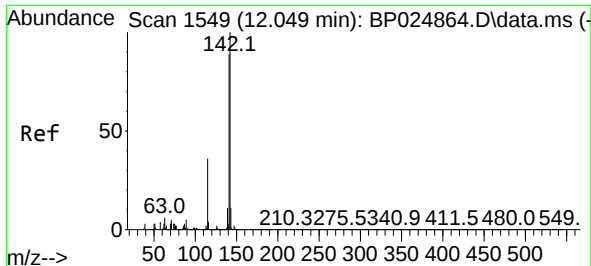


#35
Caprolactam
Concen: 3.119 ng
RT: 11.295 min Scan# 1421
Delta R.T. -0.053 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27



Tgt Ion: 113 Resp: 16410
Ion Ratio Lower Upper
113 100
55 604.5 132.5 172.5#
56 376.3 96.0 136.0#

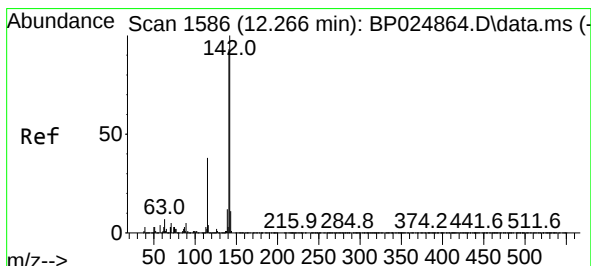
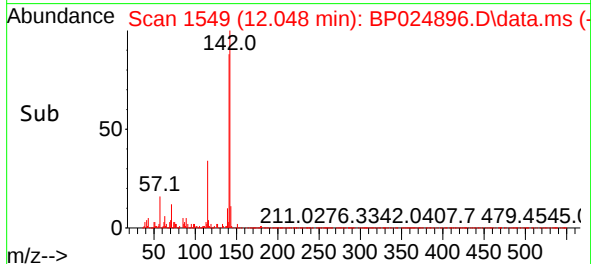
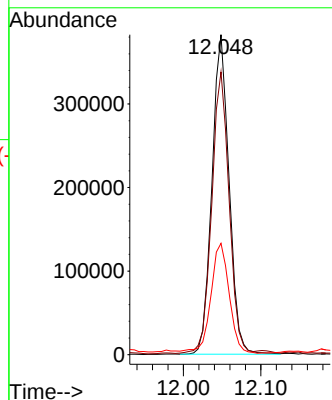
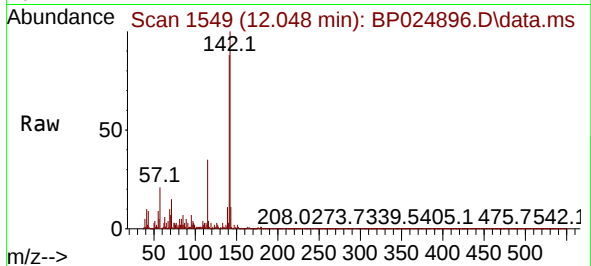




#37
2-Methylnaphthalene
Concen: 18.771 ng
RT: 12.048 min Scan# 1549
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

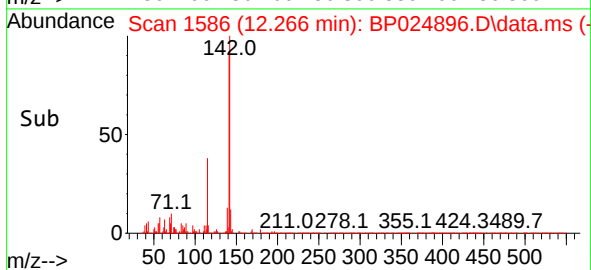
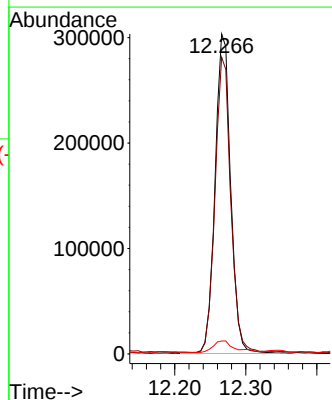
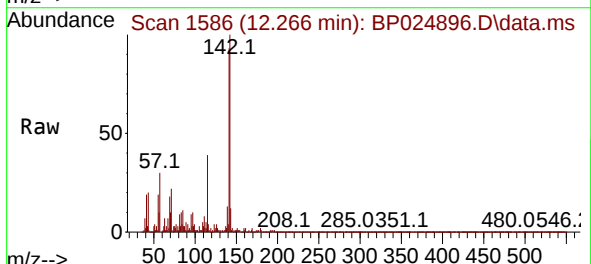
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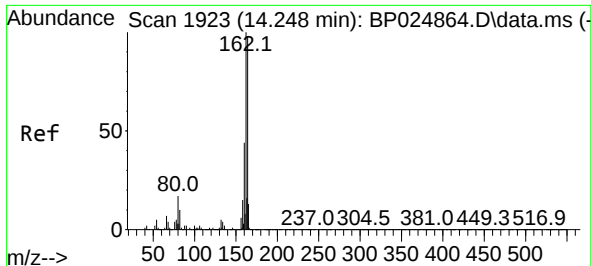
Tgt Ion:142 Resp: 588726
Ion Ratio Lower Upper
142 100
141 88.4 71.2 106.8
115 34.8 28.5 42.7



#38
1-Methylnaphthalene
Concen: 13.736 ng
RT: 12.266 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:142 Resp: 460580
Ion Ratio Lower Upper
142 100
141 92.7 74.7 112.1
116 4.1 3.4 5.0

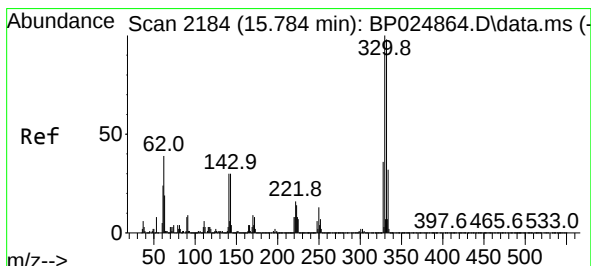
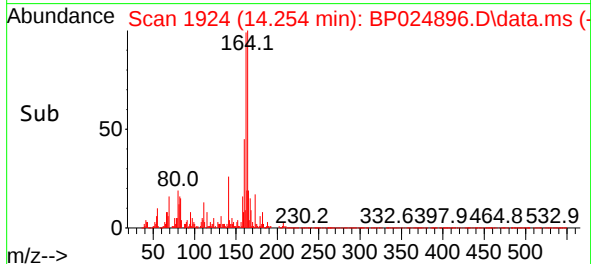
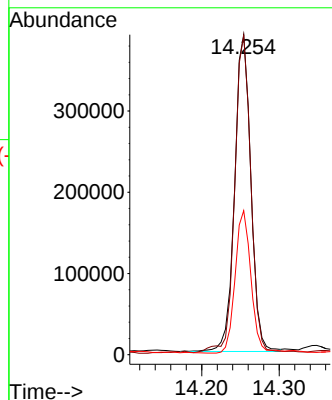
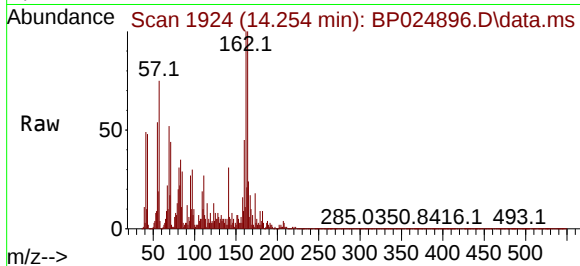




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.254 min Scan# 1924
Delta R.T. 0.006 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

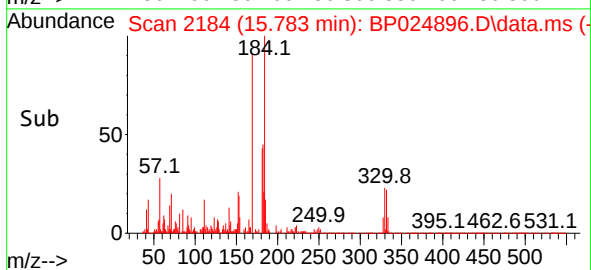
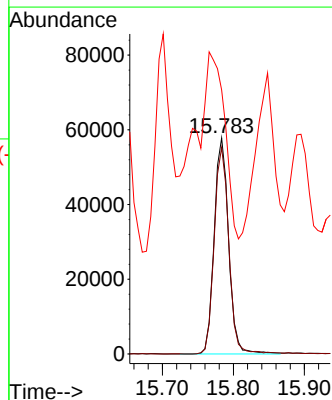
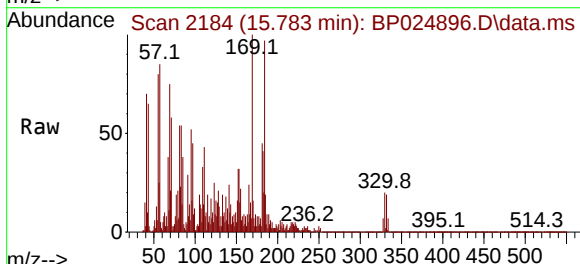
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B28-SOIL-SAMPLE

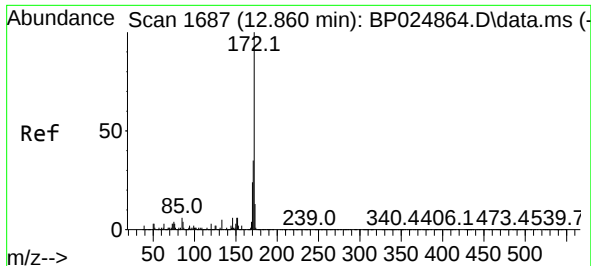
Tgt Ion:164 Resp: 570354
Ion Ratio Lower Upper
164 100
162 99.7 81.6 122.4
160 45.0 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 10.314 ng
RT: 15.783 min Scan# 2184
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:330 Resp: 81331
Ion Ratio Lower Upper
330 100
332 97.1 77.7 116.5
141 171.6 26.4 39.6#

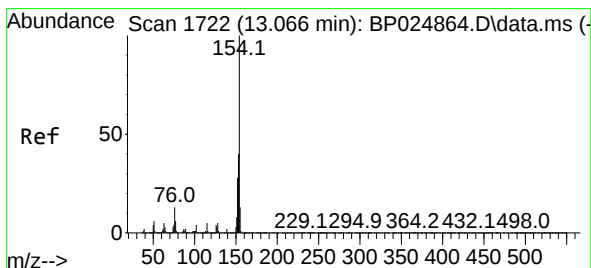
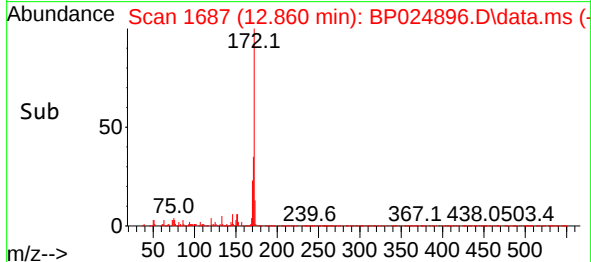
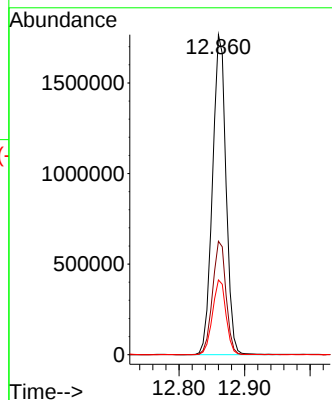
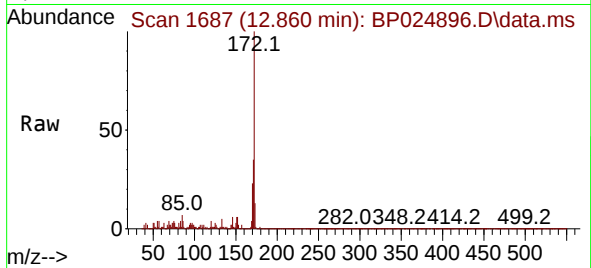




#45
2-Fluorobiphenyl
Concen: 59.770 ng
RT: 12.860 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

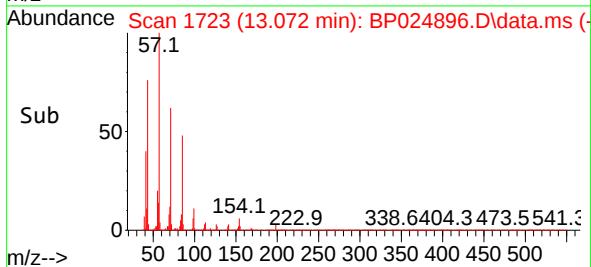
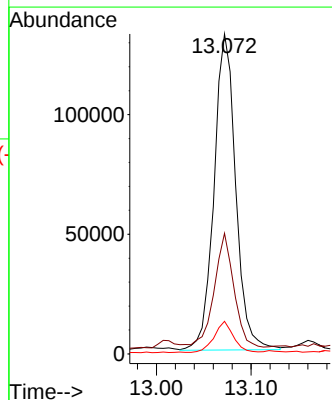
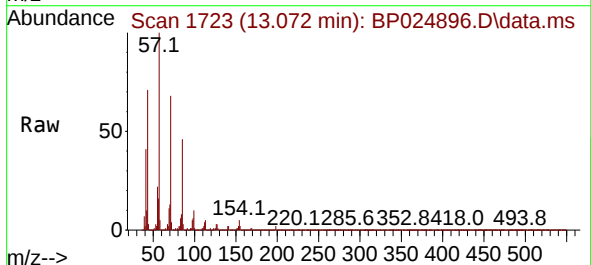
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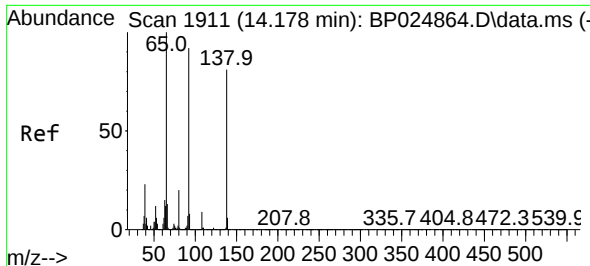
Tgt Ion:172 Resp: 2530589
Ion Ratio Lower Upper
172 100
171 35.4 28.3 42.5
170 23.4 19.0 28.4



#46
1,1'-Biphenyl
Concen: 5.070 ng
RT: 13.072 min Scan# 1723
Delta R.T. 0.006 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:154 Resp: 210158
Ion Ratio Lower Upper
154 100
153 37.7 20.3 60.3
76 10.2 0.0 33.0

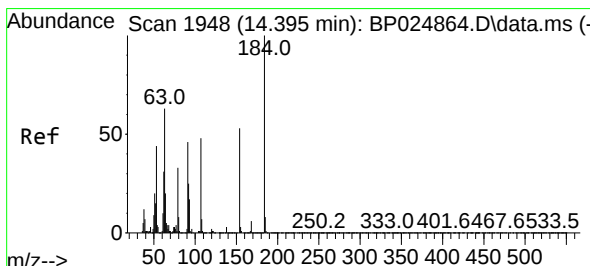
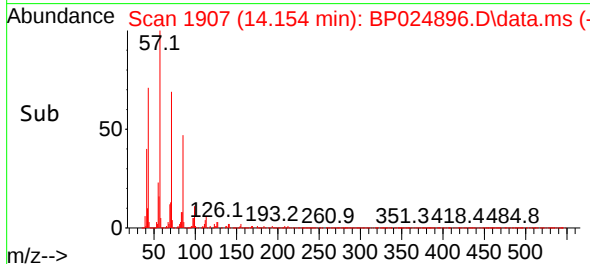
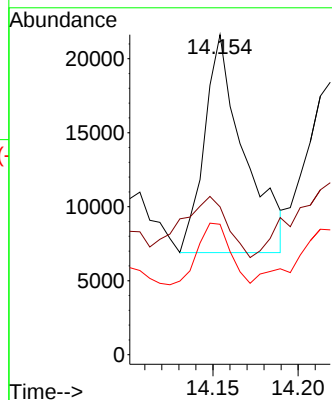
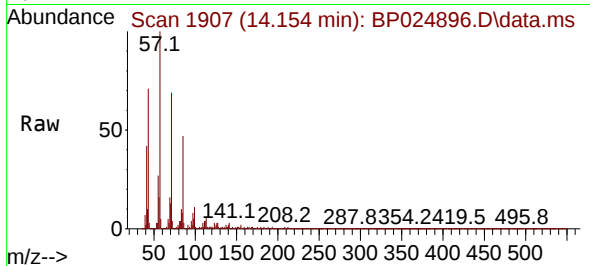




#53
3-Nitroaniline
Concen: 2.521 ng
RT: 14.154 min Scan# 1907
Delta R.T. -0.024 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

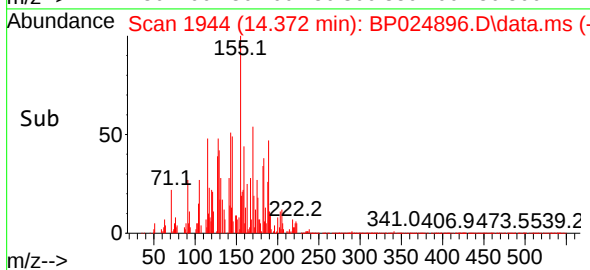
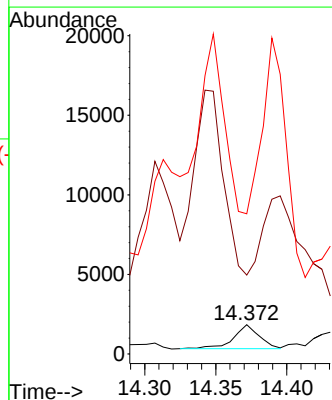
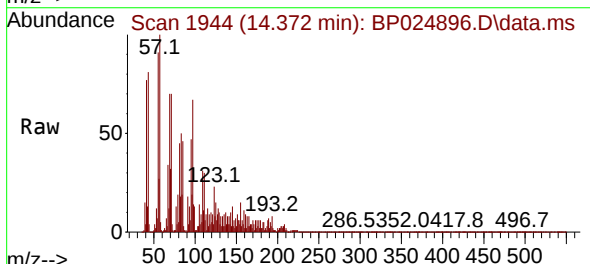
Instrument :
BNA_P
ClientSampleId :
B28-SOIL-SAMPLE

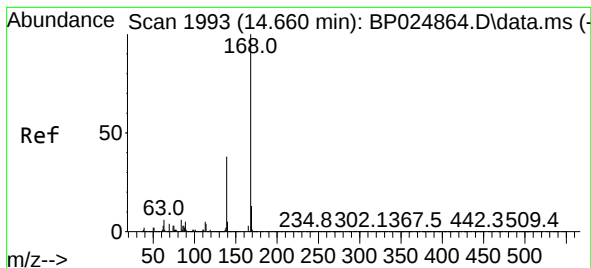
Tgt Ion:138 Resp: 23727
Ion Ratio Lower Upper
138 100
108 46.2 8.6 12.8#
92 40.8 91.3 136.9#



#54
2,4-Dinitrophenol
Concen: 5.862 ng
RT: 14.372 min Scan# 1944
Delta R.T. -0.023 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:184 Resp: 1896
Ion Ratio Lower Upper
184 100
63 269.6 51.0 76.4#
154 478.5 51.7 77.5#

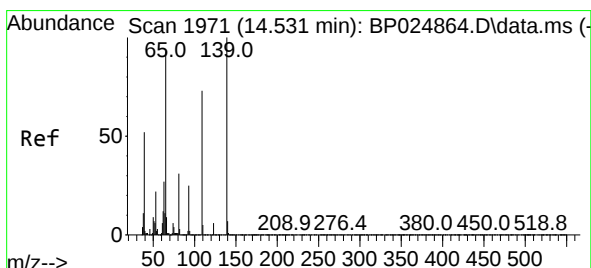
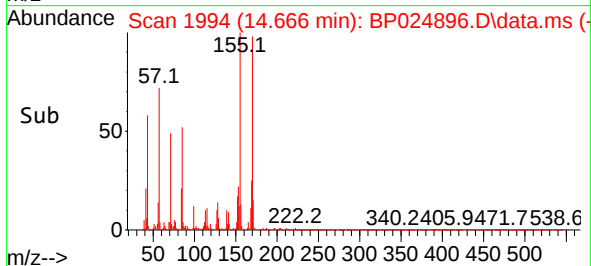
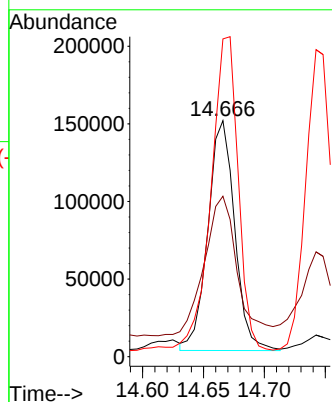
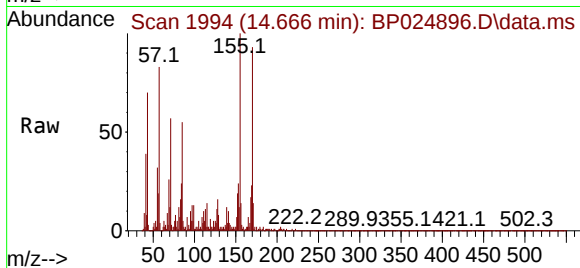




#55
Dibenzenofuran
Concen: 4.636 ng
RT: 14.666 min Scan# 1994
Delta R.T. 0.006 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

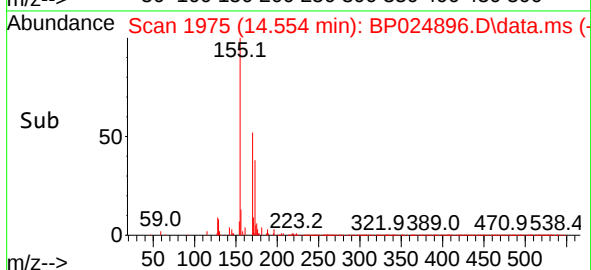
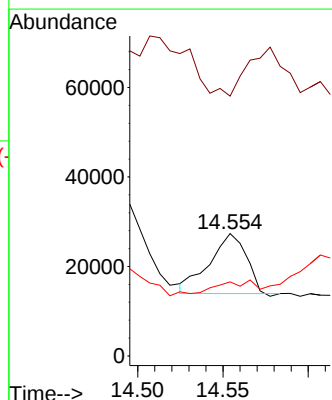
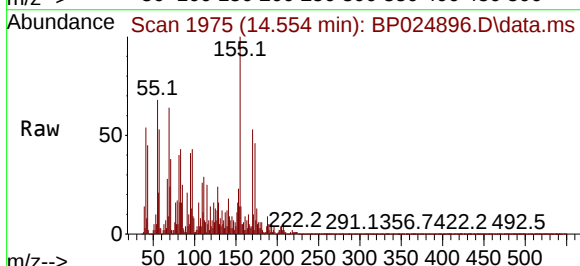
Instrument :
BNA_P
ClientSampleId :
B28-SOIL-SAMPLE

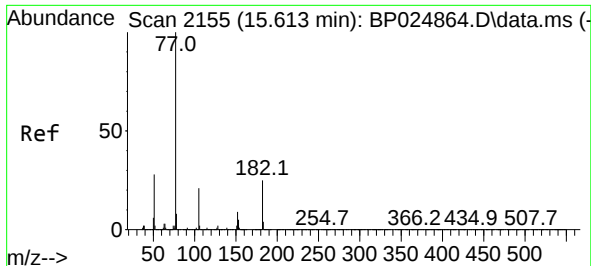
Tgt Ion:168 Resp: 226504
Ion Ratio Lower Upper
168 100
139 68.0 31.6 47.4#
169 134.7 10.6 15.8#



#56
4-Nitrophenol
Concen: 7.747 ng
RT: 14.554 min Scan# 1975
Delta R.T. 0.023 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:139 Resp: 19978
Ion Ratio Lower Upper
139 100
109 212.3 53.1 93.1#
65 60.5 73.0 113.0#

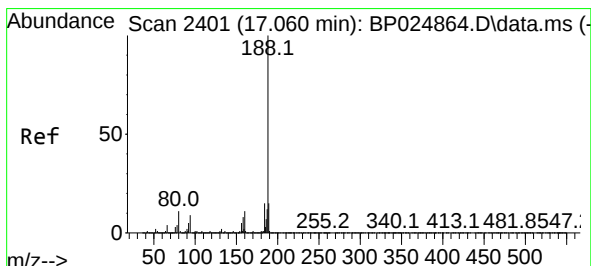
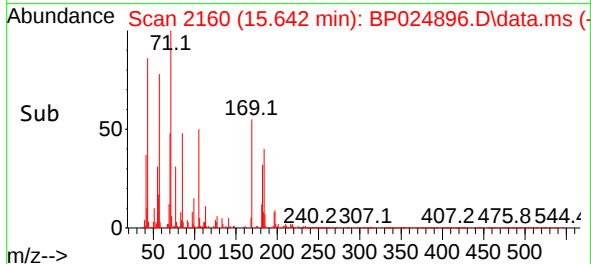
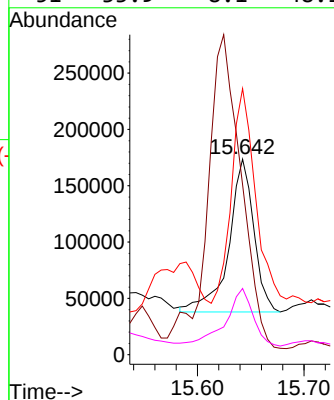
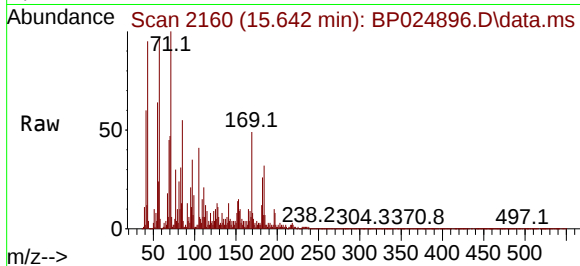




#63
Azobenzene
Concen: 5.772 ng
RT: 15.642 min Scan# 2155
Delta R.T. 0.029 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

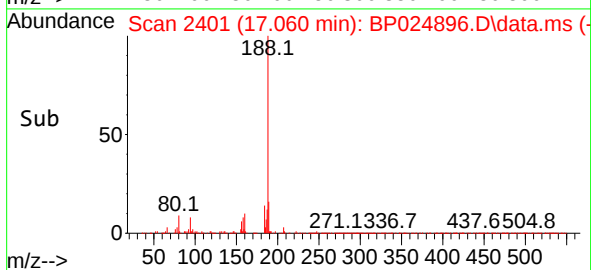
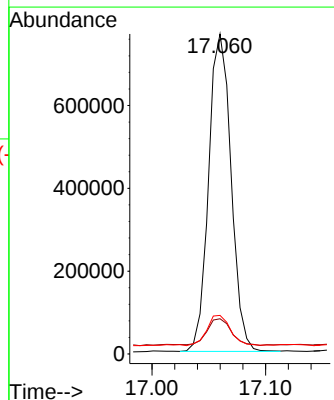
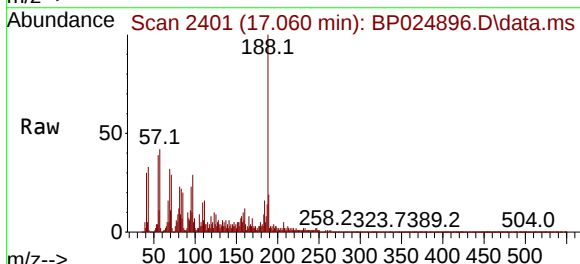
Instrument :
BNA_P
ClientSampleId :
B28-SOIL-SAMPLE

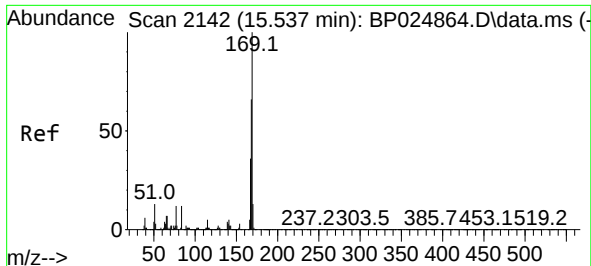
Tgt Ion: 77 Resp: 221964
Ion Ratio Lower Upper
77 100
182 86.8 5.4 45.4#
105 136.1 0.8 40.8#
51 33.9 8.1 48.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 2401
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion: 188 Resp: 1053635
Ion Ratio Lower Upper
188 100
94 11.0 7.3 10.9#
80 12.0 8.5 12.7

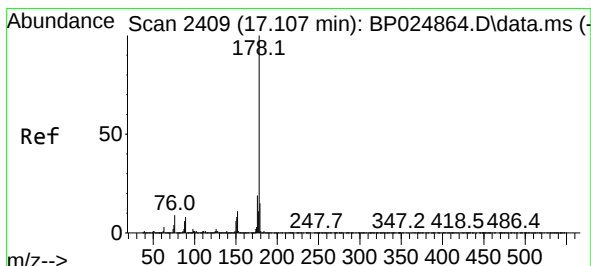
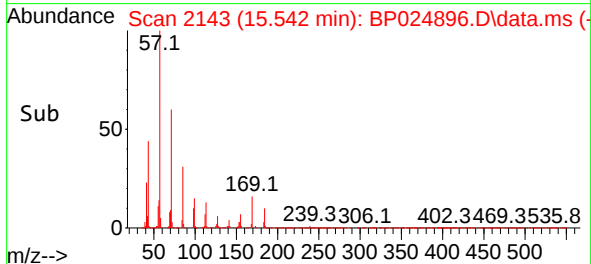
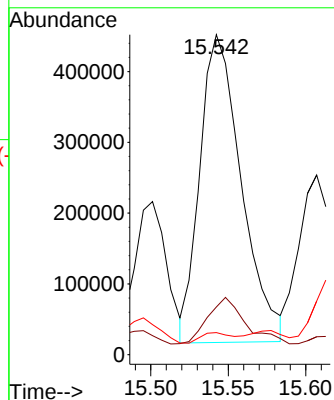
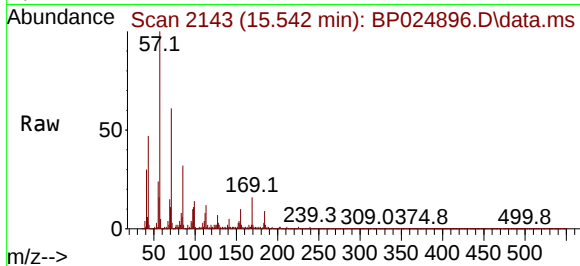




#66
n-Nitrosodiphenylamine
Concen: 24.761 ng
RT: 15.542 min Scan# 2142
Delta R.T. 0.006 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

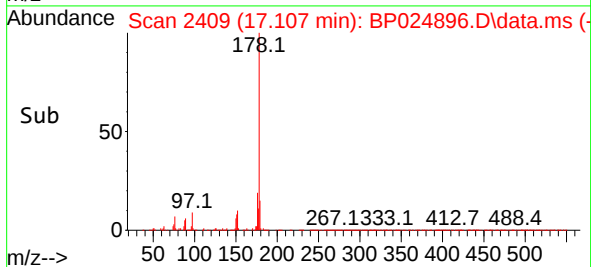
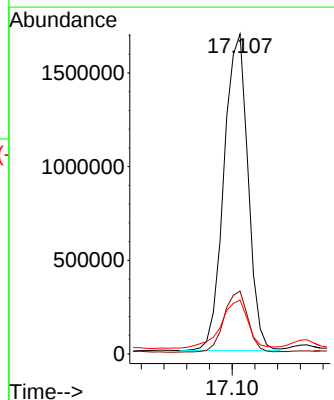
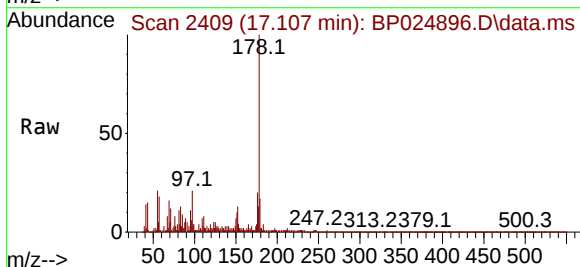
Instrument :
BNA_P
ClientSampleId :
B28-SOIL-SAMPLE

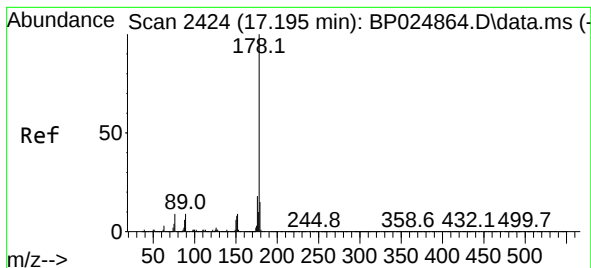
Tgt Ion:169 Resp: 808654
Ion Ratio Lower Upper
169 100
168 14.9 53.0 79.6#
167 6.9 28.6 43.0#



#71
Phenanthrene
Concen: 42.636 ng
RT: 17.107 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BP024896.D
Acq: 10 Jun 2025 16:27

Tgt Ion:178 Resp: 2482513
Ion Ratio Lower Upper
178 100
176 19.6 15.3 22.9
179 16.9 12.1 18.1





#72

Anthracene

Concen: 42.099 ng

RT: 17.107 min Scan# 2424

Delta R.T. -0.088 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

Instrument :

BNA_P

ClientSampleId :

B28-SOIL-SAMPLE

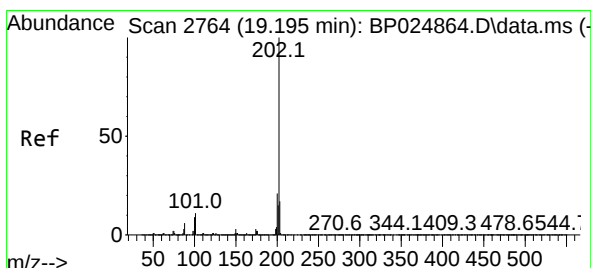
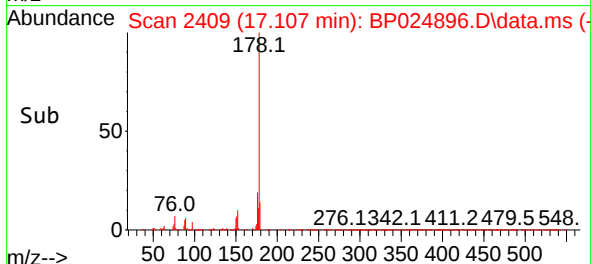
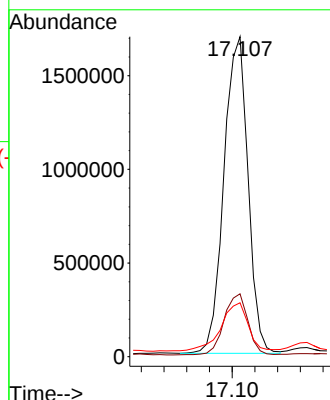
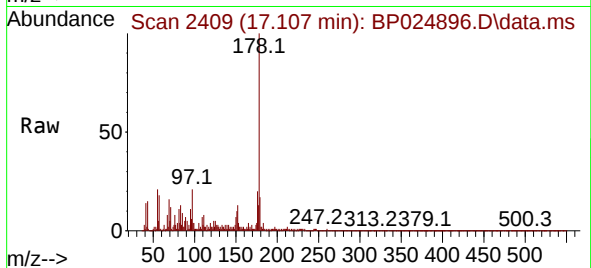
Tgt Ion:178 Resp: 2482513

Ion Ratio Lower Upper

178 100

176 19.6 14.7 22.1

179 16.9 12.3 18.5



#75

Fluoranthene

Concen: 2.433 ng

RT: 19.201 min Scan# 2765

Delta R.T. 0.006 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

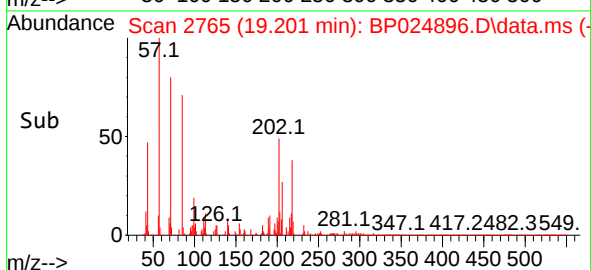
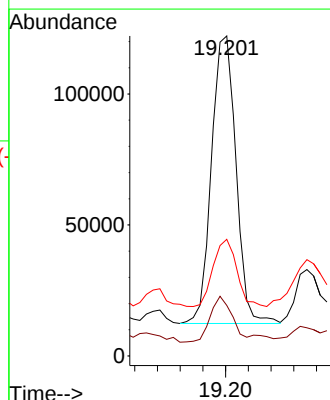
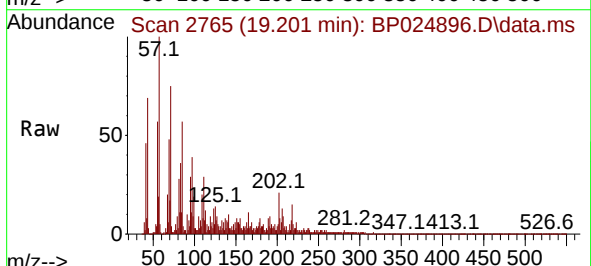
Tgt Ion:202 Resp: 164178

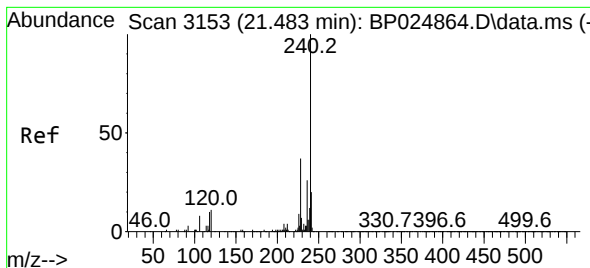
Ion Ratio Lower Upper

202 100

101 15.8 0.0 31.4

203 36.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.495 min Scan# 3155

Delta R.T. 0.012 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

Instrument :

BNA_P

ClientSampleId :

B28-SOIL-SAMPLE

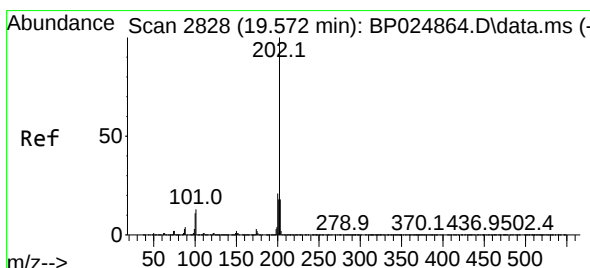
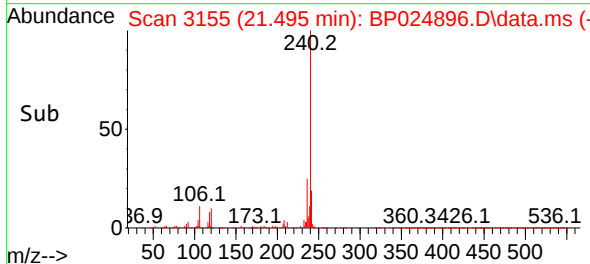
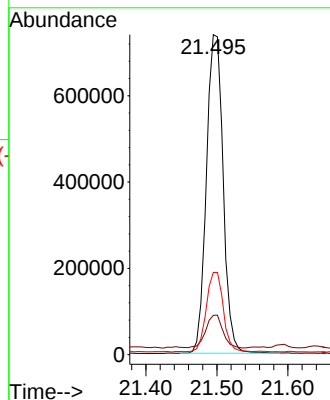
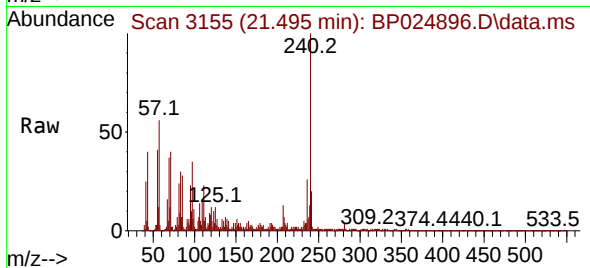
Tgt Ion:240 Resp: 1210292

Ion Ratio Lower Upper

240 100

120 12.3 8.9 13.3

236 25.7 20.9 31.3



#78

Pyrene

Concen: 5.710 ng

RT: 19.577 min Scan# 2829

Delta R.T. 0.006 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

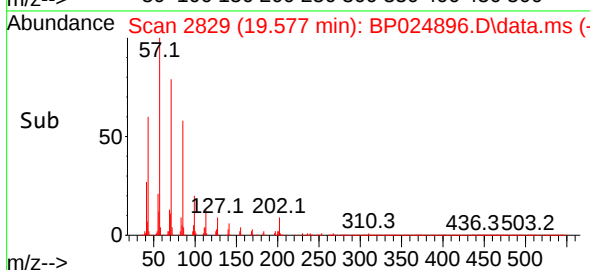
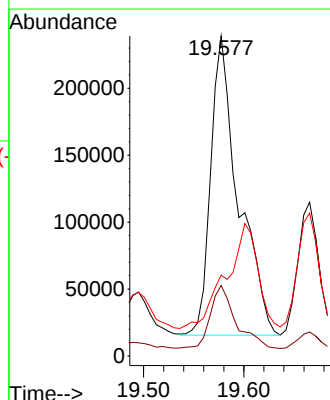
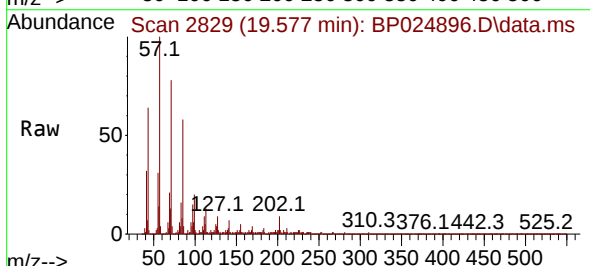
Tgt Ion:202 Resp: 431717

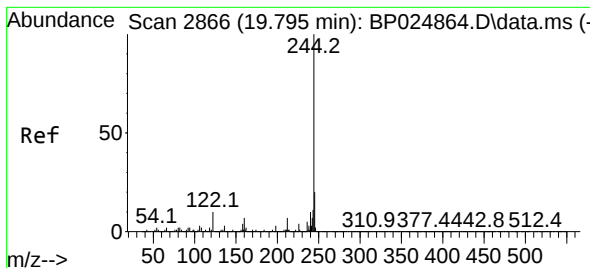
Ion Ratio Lower Upper

202 100

200 22.0 17.1 25.7

203 25.3 14.0 21.0#





#79

Terphenyl-d14

Concen: 61.394 ng

RT: 19.795 min Scan# 21

Delta R.T. -0.000 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

Instrument :

BNA_P

ClientSampleId :

B28-SOIL-SAMPLE

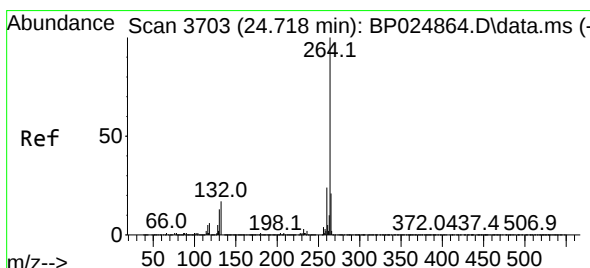
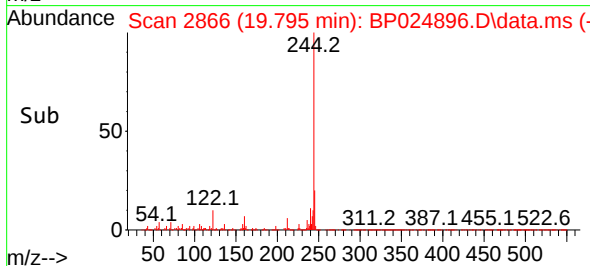
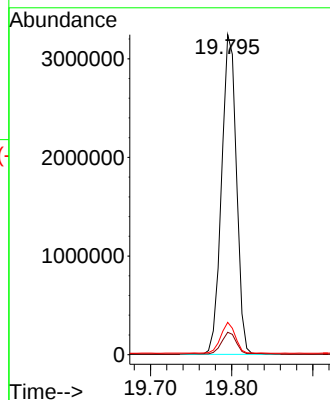
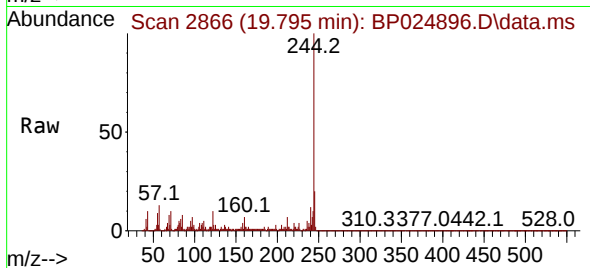
Tgt Ion:244 Resp: 4145908

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 10.1 7.7 11.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.771 min Scan# 3712

Delta R.T. 0.053 min

Lab File: BP024896.D

Acq: 10 Jun 2025 16:27

Tgt Ion:264 Resp: 1478197

Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.4

265 22.2 17.4 26.0

