

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP060925\
 Data File : BP024878.D
 Acq On : 09 Jun 2025 15:33
 Operator : RC/JU
 Sample : Q2218-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 72-11934

Quant Time: Jun 09 16:01:08 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)

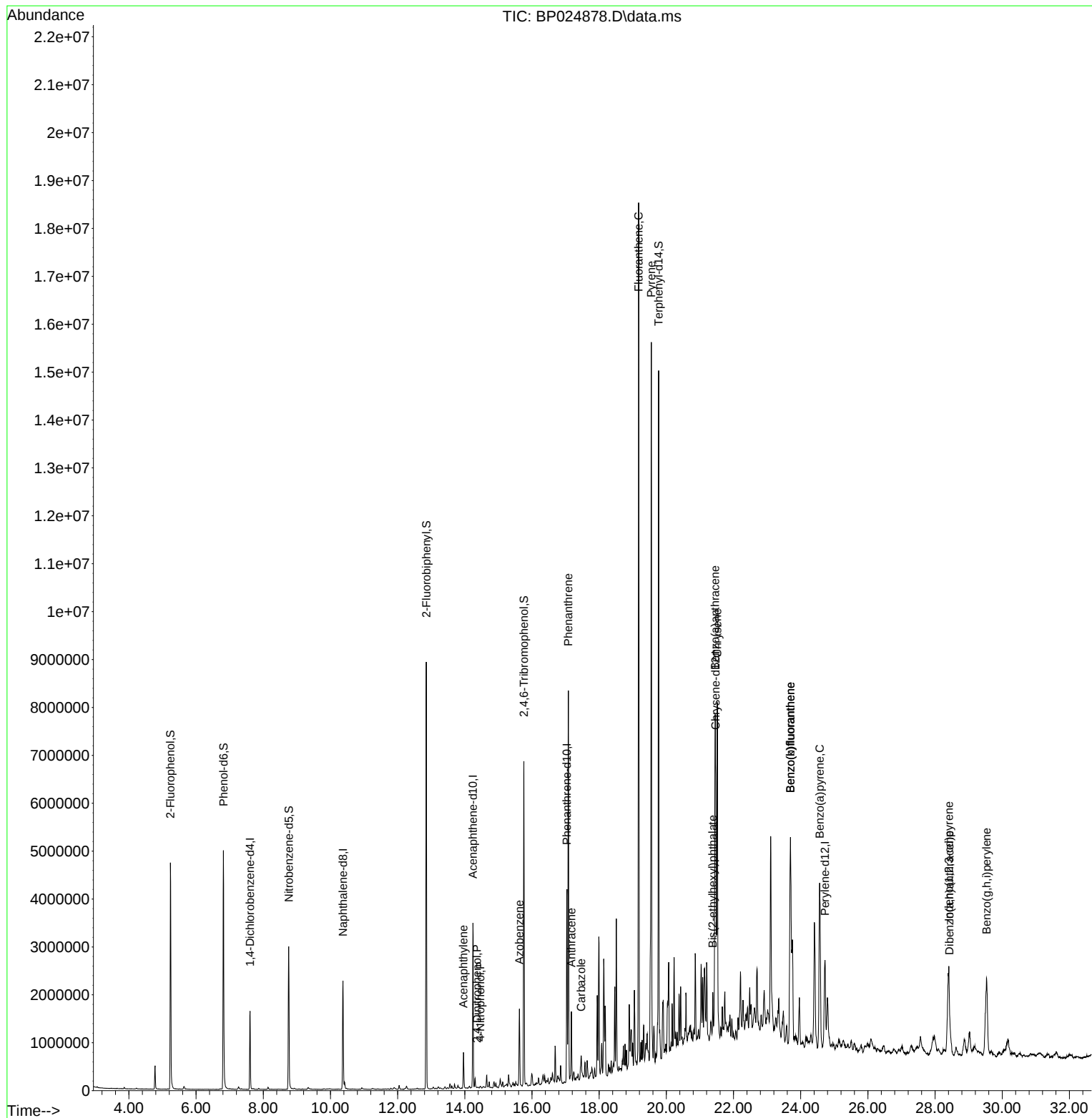
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.607	152	432133	20.000	ng	0.00
21) Naphthalene-d8	10.372	136	1804026	20.000	ng	0.00
39) Acenaphthene-d10	14.242	164	1165777	20.000	ng	0.00
64) Phenanthrene-d10	17.042	188	2330360	20.000	ng	-0.02
76) Chrysene-d12	21.471	240	1865805	20.000	ng	-0.01
86) Perylene-d12	24.724	264	1898676	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.237	112	2133484	82.410	ng	0.00
7) Phenol-d6	6.813	99	2932865	85.623	ng	0.00
23) Nitrobenzene-d5	8.760	82	1852933	49.910	ng	0.00
42) 2,4,6-Tribromophenol	15.760	330	1255449	77.894	ng	-0.02
45) 2-Fluorobiphenyl	12.854	172	4275066	49.401	ng	0.00
79) Terphenyl-d14	19.771	244	6674207	64.111	ng	-0.02
Target Compounds						Qvalue
49) Acenaphthylene	13.960	152	551456	5.079	ng	99
54) 2,4-Dinitrophenol	14.360	184	82	5.570	ng	# 1
56) 4-Nitrophenol	14.460	139	2096	5.529	ng	# 59
63) Azobenzene	15.624	77	481976	6.132	ng	# 1
71) Phenanthrene	17.083	178	4804033	37.305	ng	99
72) Anthracene	17.171	178	870658	6.676	ng	99
73) Carbazole	17.466	167	257032	2.126	ng	98
75) Fluoranthene	19.177	202	10094961	67.633	ng	98
78) Pyrene	19.554	202	9206892	78.985	ng	98
81) Benzo(a)anthracene	21.454	228	4168410	34.931	ng	96
83) Chrysene	21.518	228	4672742	41.326	ng	98
84) Bis(2-ethylhexyl)phtha...	21.383	149	368162	4.813	ng	99
87) Indeno(1,2,3-cd)pyrene	28.412	276	2886914	20.839	ng	97
88) Benzo(b)fluoranthene	23.695	252	5271524	48.513	ng	98
89) Benzo(k)fluoranthene	23.695	252	5271524	47.660	ng	99
90) Benzo(a)pyrene	24.565	252	3662814	34.517	ng	98
91) Dibenzo(a,h)anthracene	28.430	278	724031	6.421	ng	92
92) Benzo(g,h,i)perylene	29.535	276	2880279	25.744	ng	98

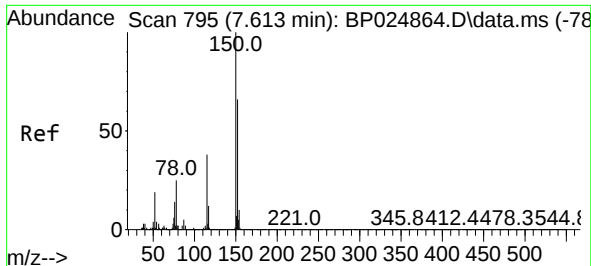
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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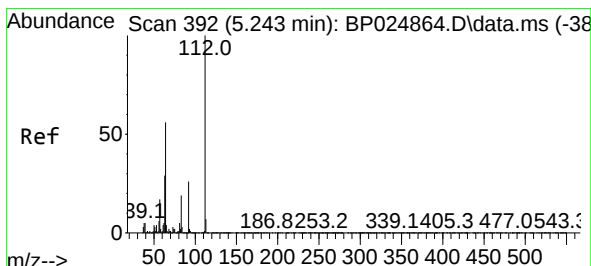
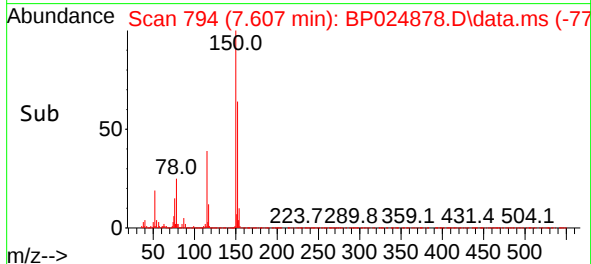
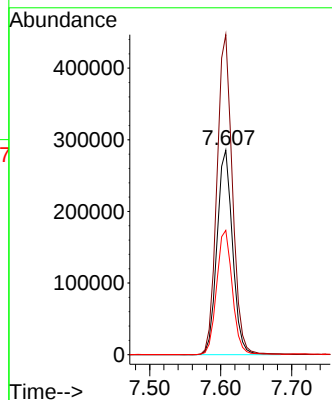
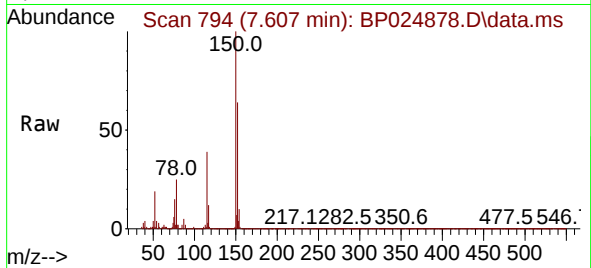




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.607 min Scan# 794
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

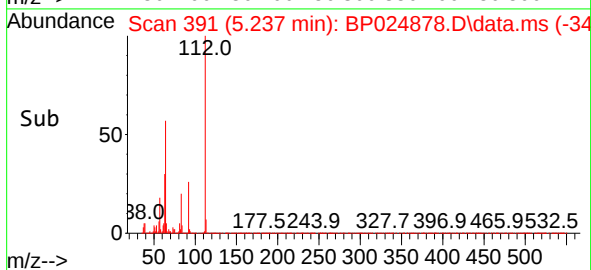
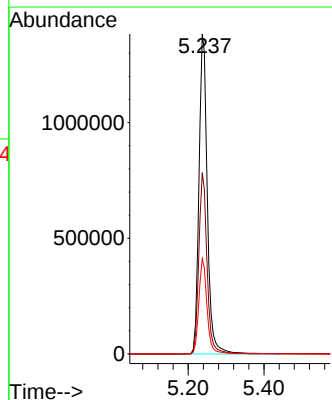
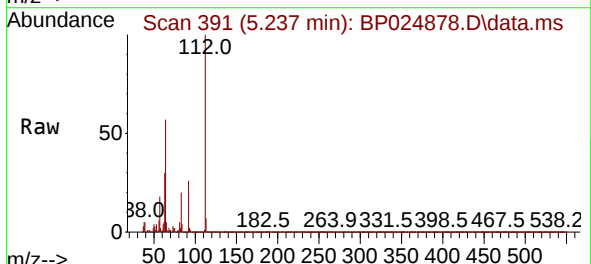
Instrument :
BNA_P
ClientSampleId :
72-11934

Tgt Ion:152 Resp: 432133
Ion Ratio Lower Upper
152 100
150 156.5 122.1 183.1
115 60.8 46.4 69.6



#5
2-Fluorophenol
Concen: 82.410 ng
RT: 5.237 min Scan# 391
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion:112 Resp: 2133484
Ion Ratio Lower Upper
112 100
64 56.7 44.7 67.1
63 29.8 23.5 35.3

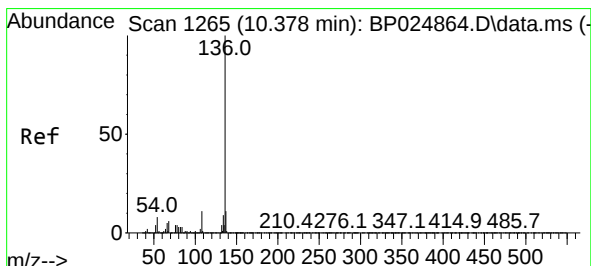
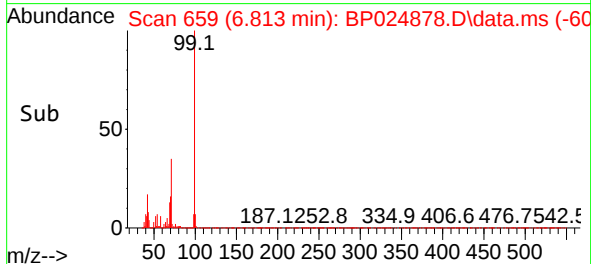
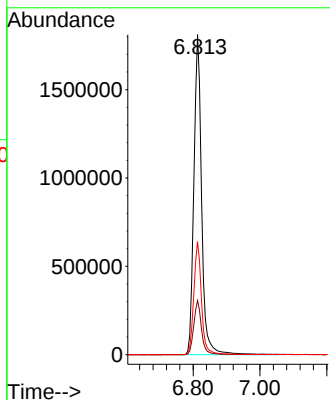
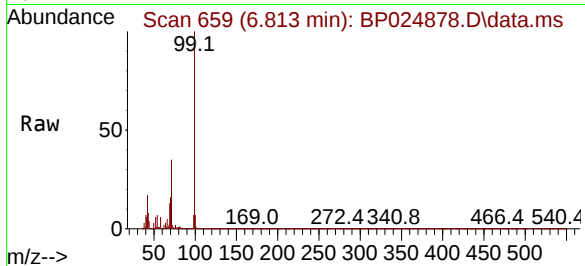




#7
Phenol-d6
Concen: 85.623 ng
RT: 6.813 min Scan# 61
Delta R.T. -0.000 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

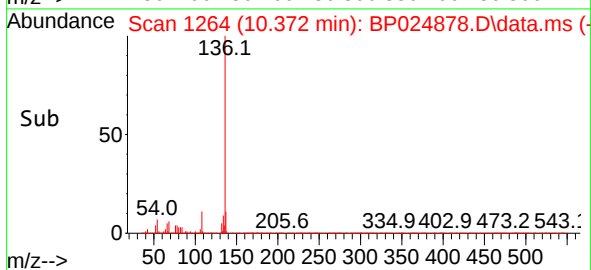
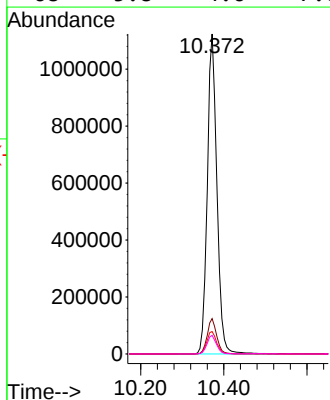
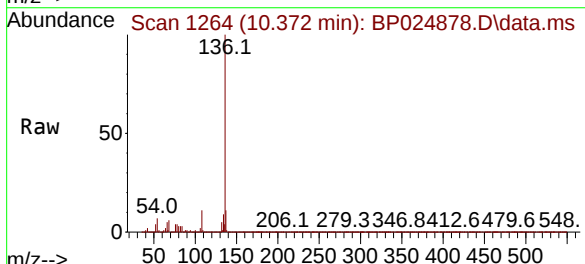
Instrument :
BNA_P
ClientSampleId :
72-11934

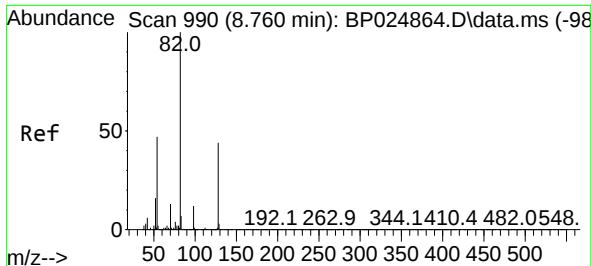
Tgt Ion: 99 Resp: 2932865
Ion Ratio Lower Upper
99 100
42 16.9 13.4 20.2
71 35.3 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.372 min Scan# 1264
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

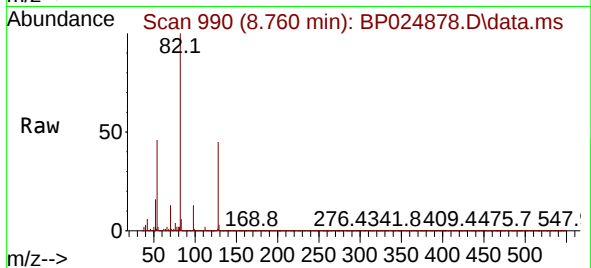
Tgt Ion: 136 Resp: 1804026
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 7.0 6.1 9.1
68 5.8 4.6 7.0



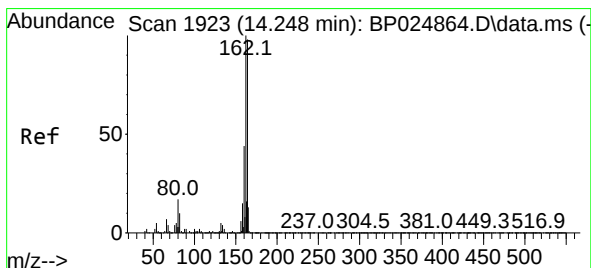
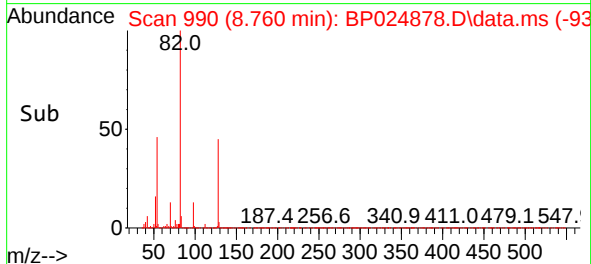
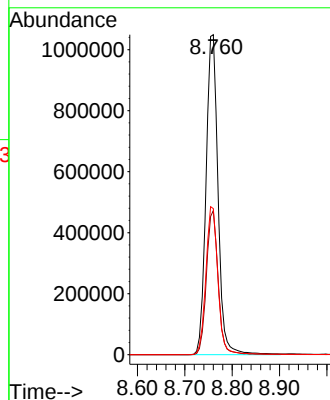


#23
Nitrobenzene-d5
Concen: 49.910 ng
RT: 8.760 min Scan# 990
Delta R.T. -0.000 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Instrument :
BNA_P
ClientSampleId :
72-11934

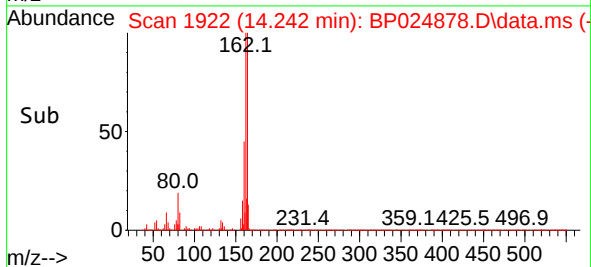
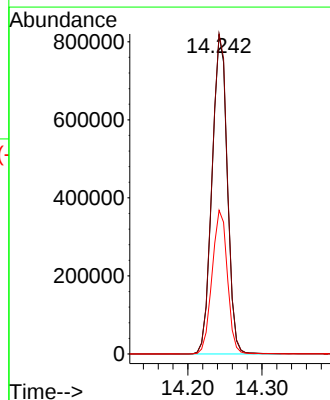
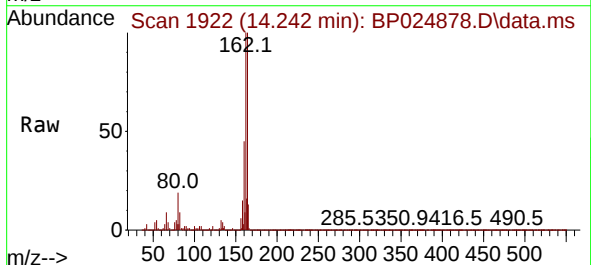


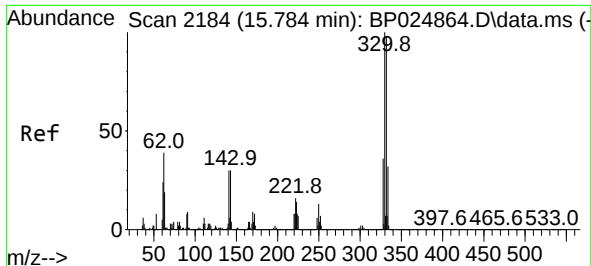
Tgt Ion: 82 Resp: 1852933
Ion Ratio Lower Upper
82 100
128 45.0 35.3 52.9
54 45.7 37.4 56.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.242 min Scan# 1922
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion:164 Resp: 1165777
Ion Ratio Lower Upper
164 100
162 100.4 81.6 122.4
160 45.1 36.2 54.2

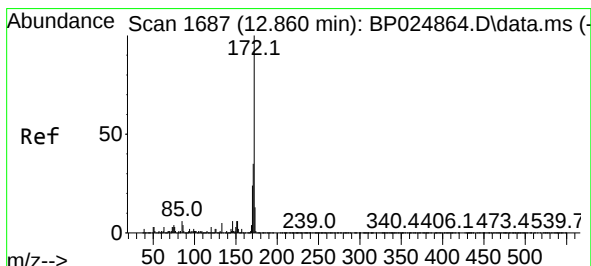
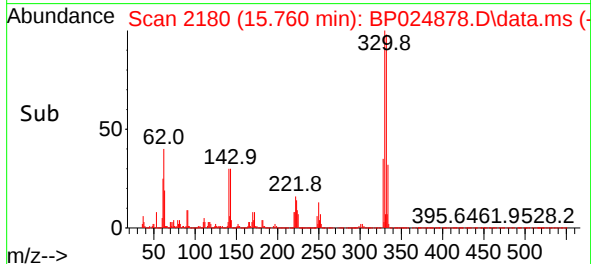
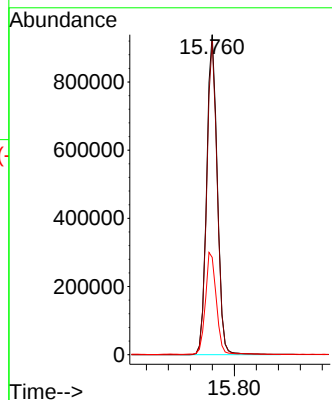
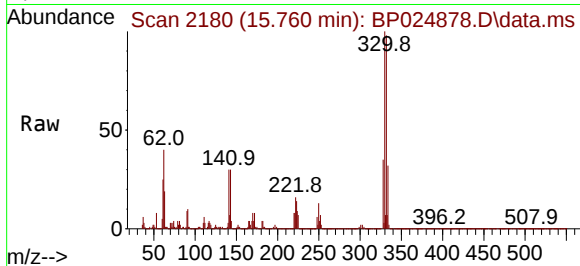




#42
2,4,6-Tribromophenol
Concen: 77.894 ng
RT: 15.760 min Scan# 2184
Delta R.T. -0.024 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

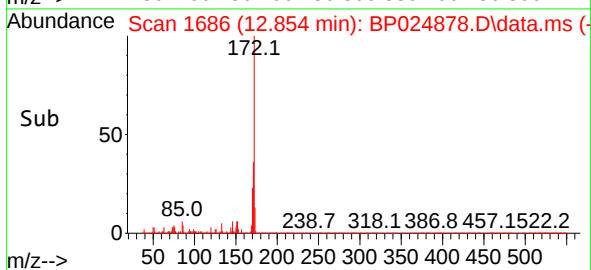
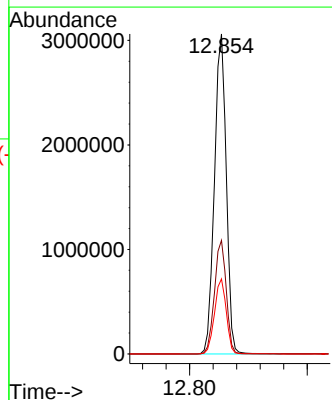
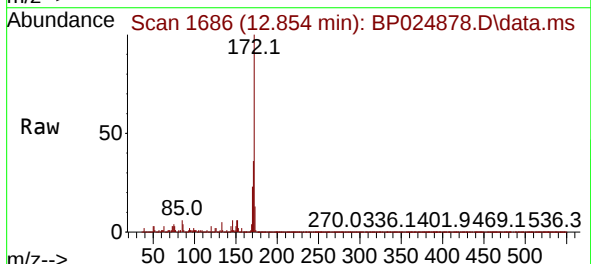
Instrument :
BNA_P
ClientSampleId :
72-11934

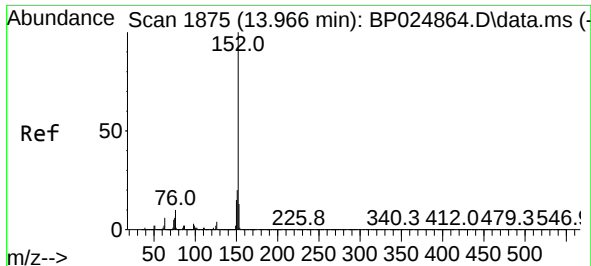
Tgt Ion: 330 Resp: 1255449
Ion Ratio Lower Upper
330 100
332 96.9 77.7 116.5
141 32.6 26.4 39.6



#45
2-Fluorobiphenyl
Concen: 49.401 ng
RT: 12.854 min Scan# 1686
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion: 172 Resp: 4275066
Ion Ratio Lower Upper
172 100
171 35.5 28.3 42.5
170 23.4 19.0 28.4

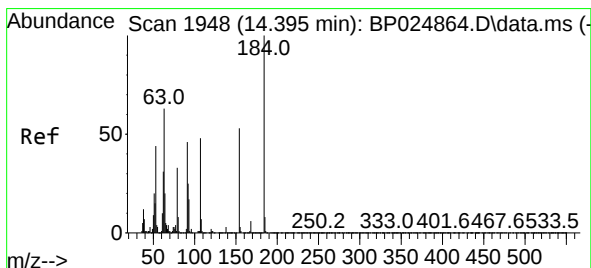
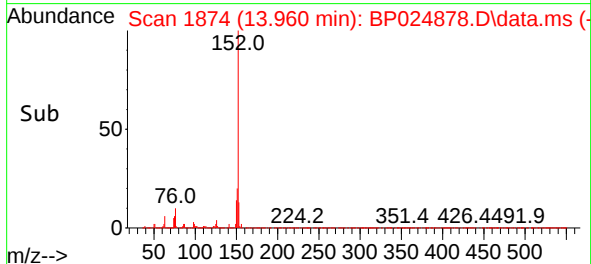
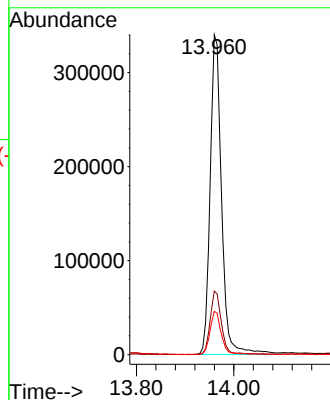
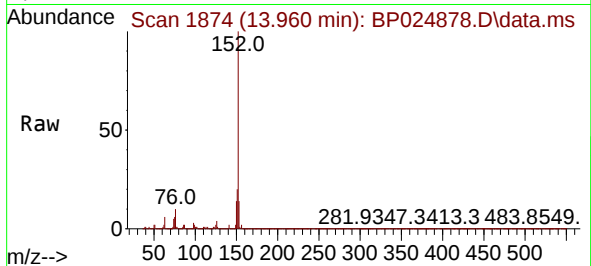




#49
Acenaphthylene
Concen: 5.079 ng
RT: 13.960 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

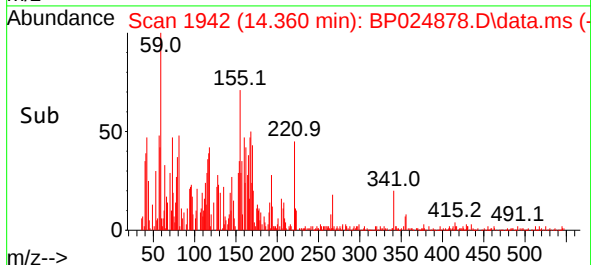
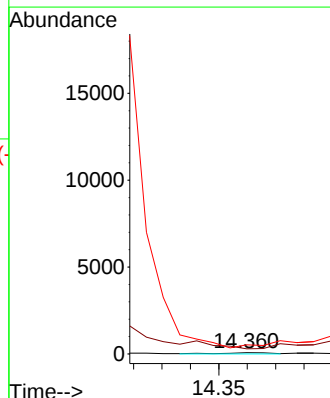
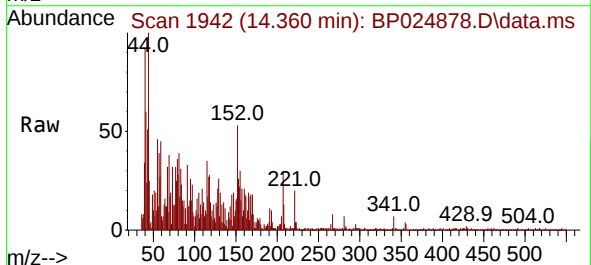
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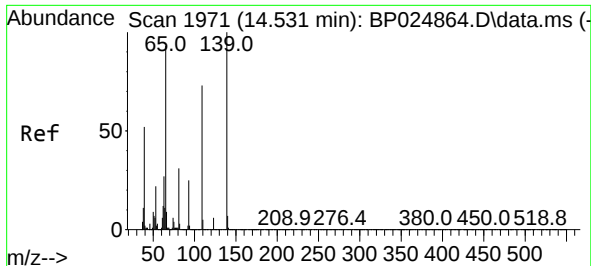
Tgt Ion:152 Resp: 551456
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 13.5 10.6 15.8



#54
2,4-Dinitrophenol
Concen: 5.570 ng
RT: 14.360 min Scan# 1942
Delta R.T. -0.035 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion:184 Resp: 82
Ion Ratio Lower Upper
184 100
63 418.3 51.0 76.4#
154 738.0 51.7 77.5#

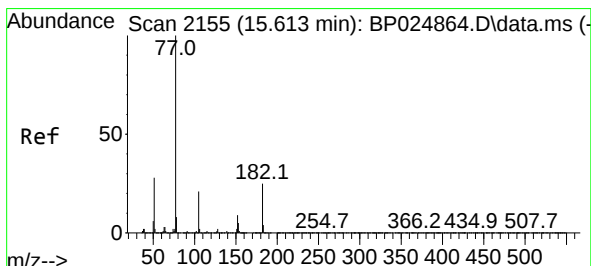
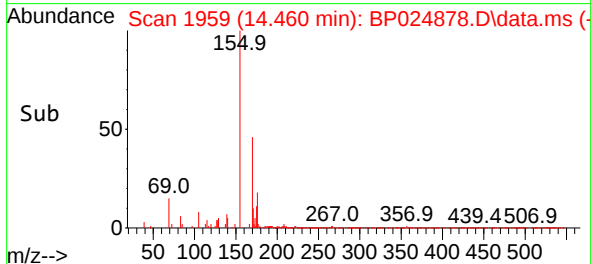
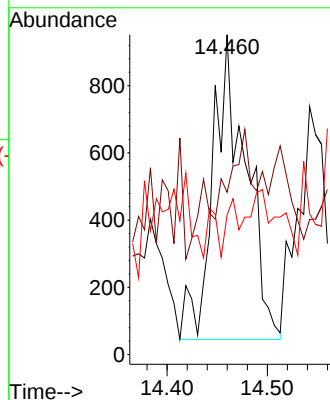
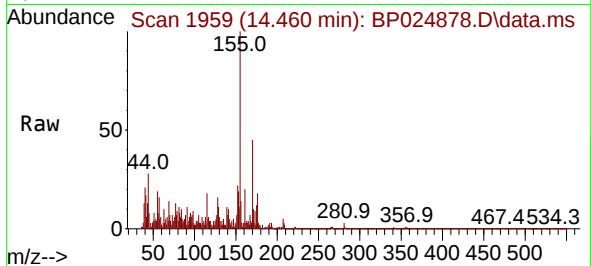




#56
4-Nitrophenol
Concen: 5.529 ng
RT: 14.460 min Scan# 1971
Delta R.T. -0.071 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

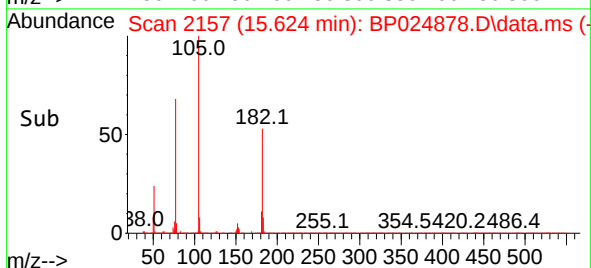
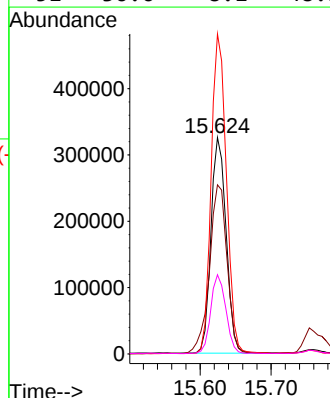
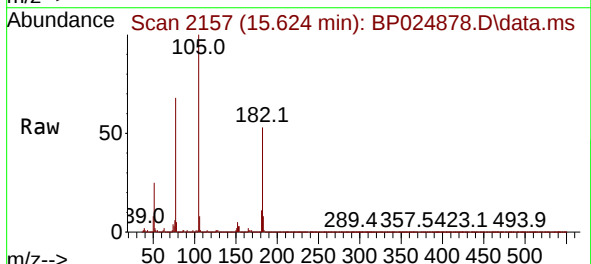
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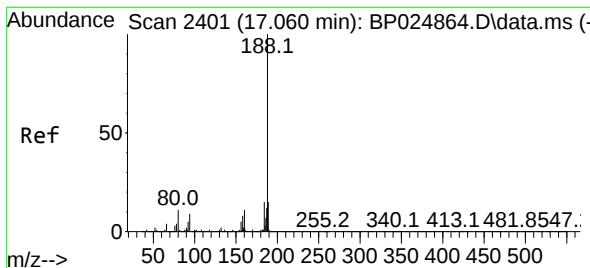
Tgt Ion:139 Resp: 2096
Ion Ratio Lower Upper
139 100
109 50.7 53.1 93.1#
65 43.6 73.0 113.0#



#63
Azobenzene
Concen: 6.132 ng
RT: 15.624 min Scan# 2157
Delta R.T. 0.011 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion: 77 Resp: 481976
Ion Ratio Lower Upper
77 100
182 78.1 5.4 45.4#
105 147.8 0.8 40.8#
51 36.6 8.1 48.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.042 min Scan# 21

Delta R.T. -0.018 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

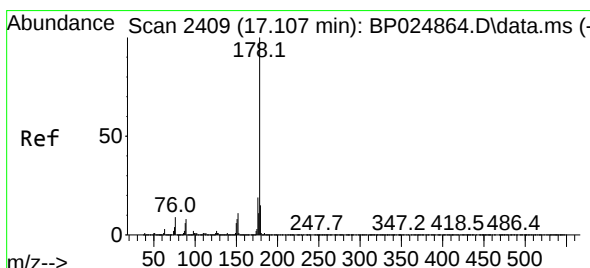
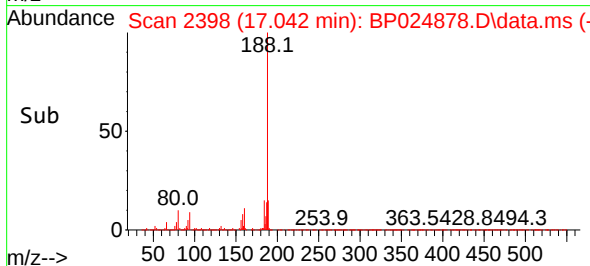
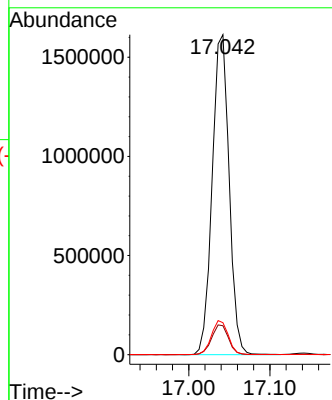
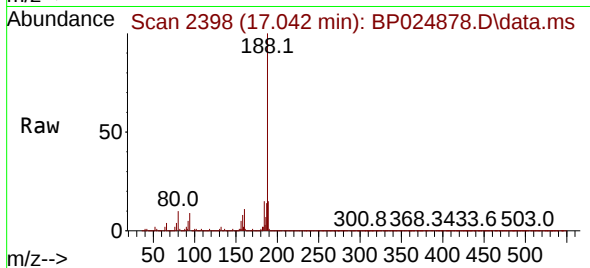
Tgt Ion:188 Resp: 2330360

Ion Ratio Lower Upper

188 100

94 9.1 7.3 10.9

80 10.0 8.5 12.7



#71

Phenanthrene

Concen: 37.305 ng

RT: 17.083 min Scan# 2405

Delta R.T. -0.024 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

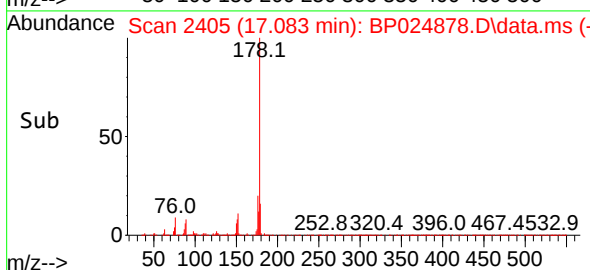
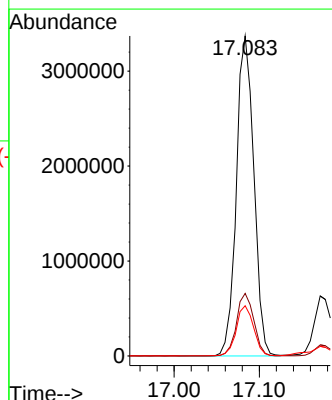
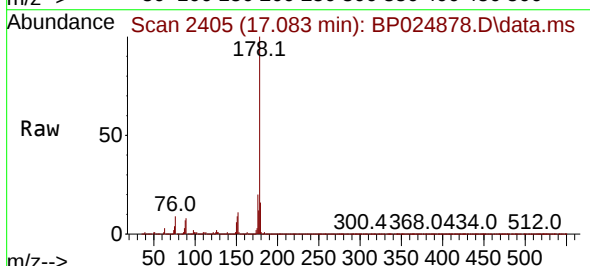
Tgt Ion:178 Resp: 4804033

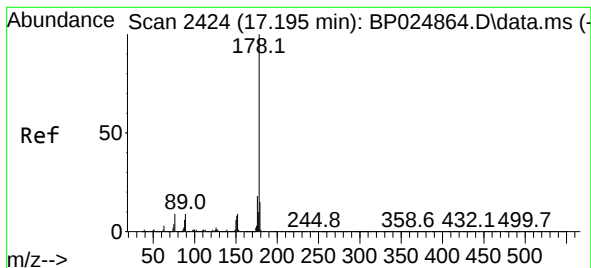
Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

179 15.7 12.1 18.1





#72

Anthracene

Concen: 6.676 ng

RT: 17.171 min Scan# 2424

Delta R.T. -0.024 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

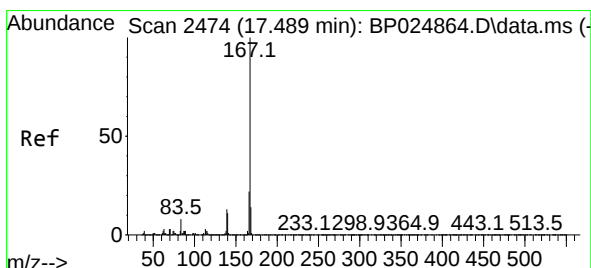
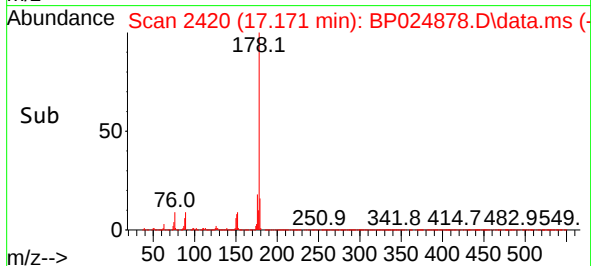
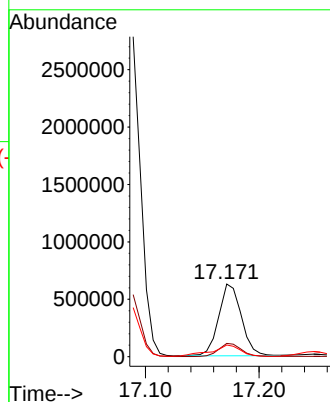
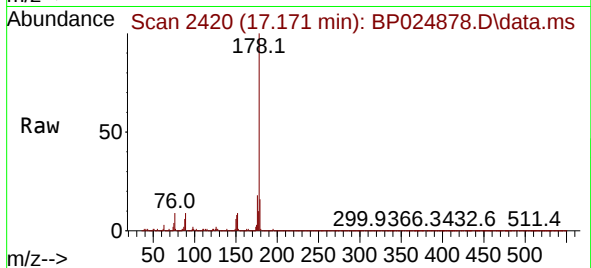
Tgt Ion:178 Resp: 870658

Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 16.0 12.3 18.5



#73

Carbazole

Concen: 2.126 ng

RT: 17.466 min Scan# 2470

Delta R.T. -0.024 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

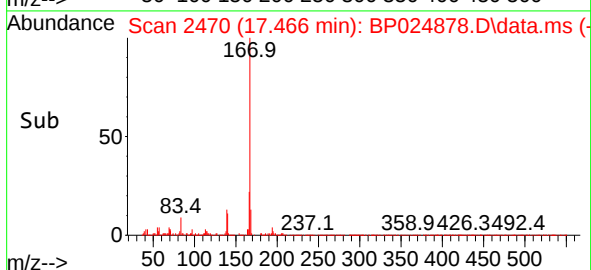
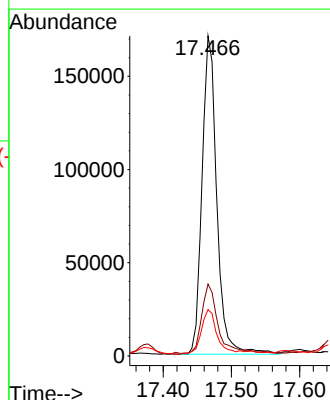
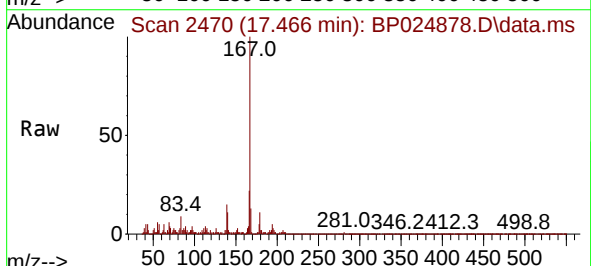
Tgt Ion:167 Resp: 257032

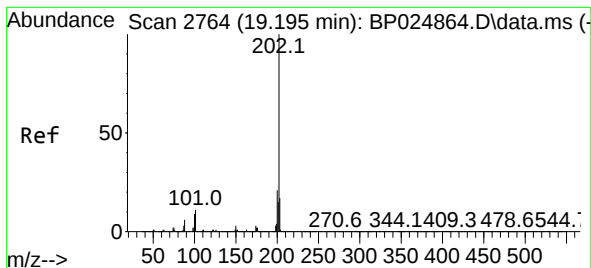
Ion Ratio Lower Upper

167 100

166 22.5 17.3 25.9

139 14.5 10.8 16.2





#75

Fluoranthene

Concen: 67.633 ng

RT: 19.177 min Scan# 21

Delta R.T. -0.018 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

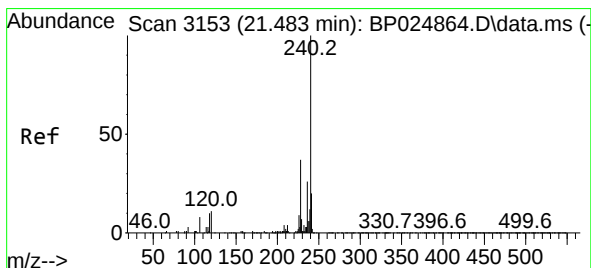
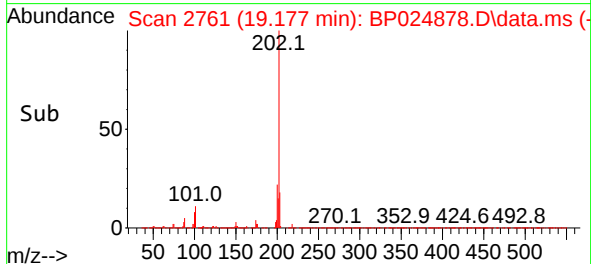
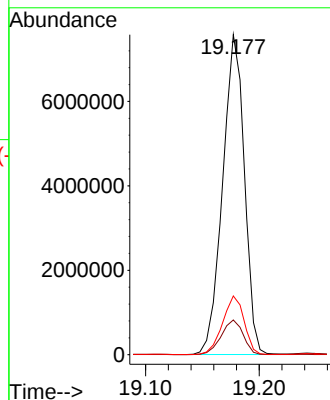
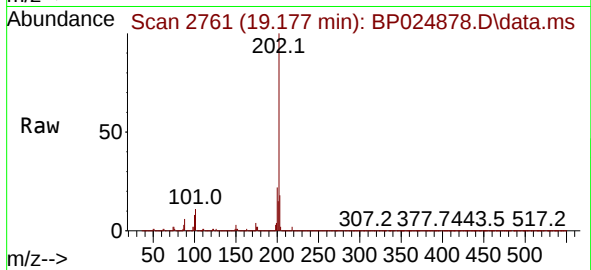
Tgt Ion:202 Resp:10094961

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.4

203 18.4 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.471 min Scan# 3151

Delta R.T. -0.012 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

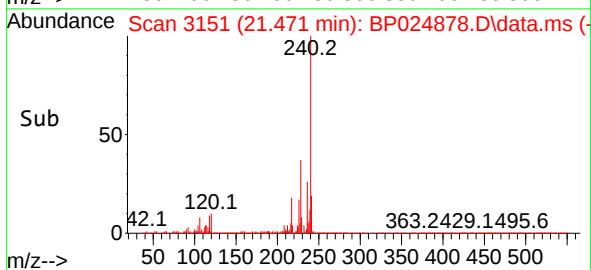
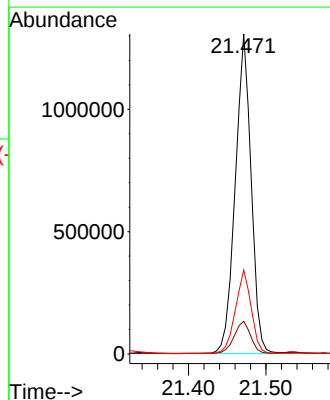
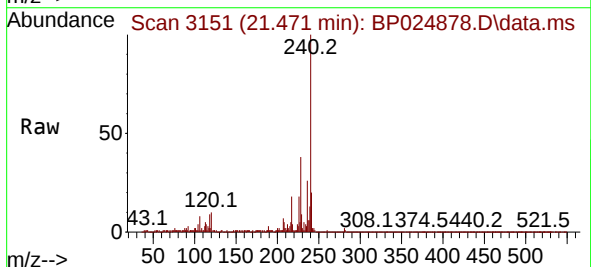
Tgt Ion:240 Resp: 1865805

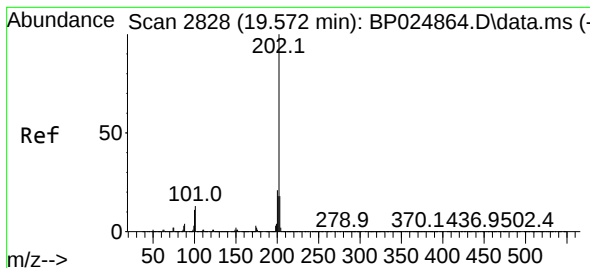
Ion Ratio Lower Upper

240 100

120 10.2 8.9 13.3

236 26.3 20.9 31.3





#78

Pyrene

Concen: 78.985 ng

RT: 19.554 min Scan# 2825

Delta R.T. -0.018 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

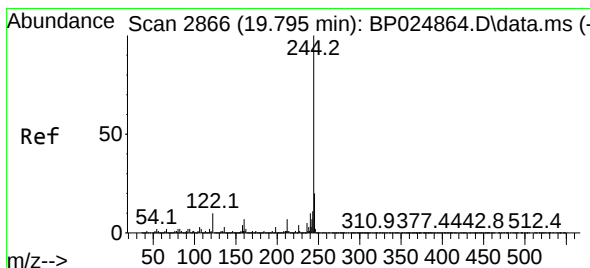
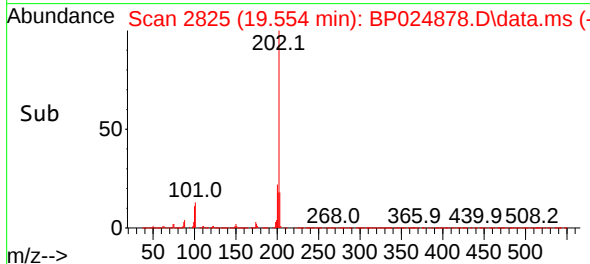
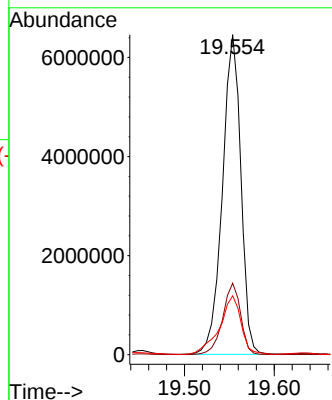
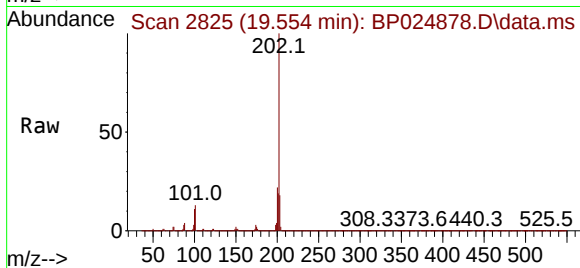
BNA_P

ClientSampleId :

72-11934

Tgt Ion:202 Resp: 9206892

Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.1	25.7
203	18.4	14.0	21.0



#79

Terphenyl-d14

Concen: 64.111 ng

RT: 19.771 min Scan# 2862

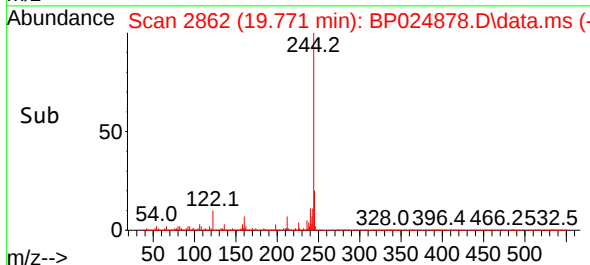
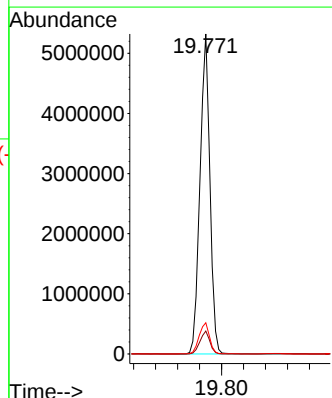
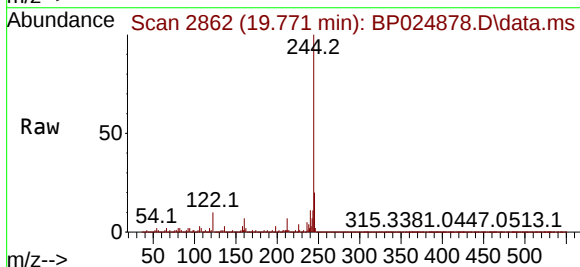
Delta R.T. -0.024 min

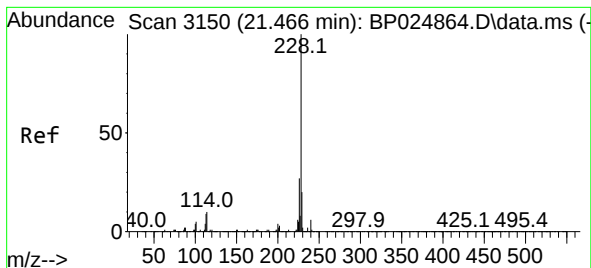
Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Tgt Ion:244 Resp: 6674207

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	9.7	7.7	11.5





#81

Benzo(a)anthracene

Concen: 34.931 ng

RT: 21.454 min Scan# 3150

Delta R.T. -0.012 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

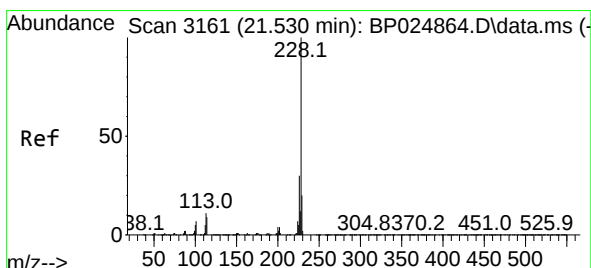
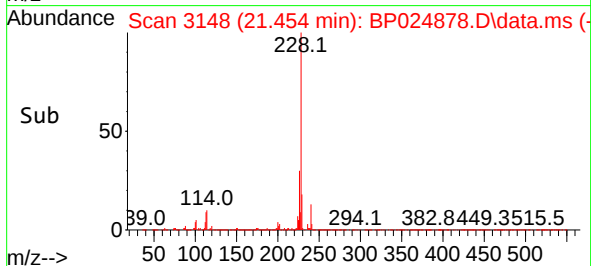
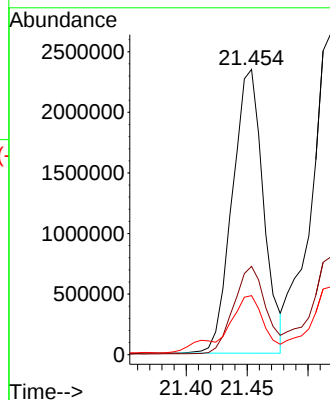
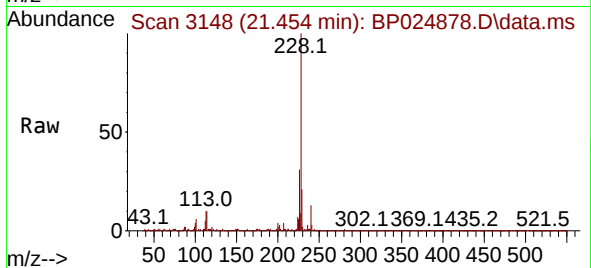
Tgt Ion:228 Resp: 4168410

Ion Ratio Lower Upper

228 100

226 31.0 22.1 33.1

229 20.7 15.9 23.9



#83

Chrysene

Concen: 41.326 ng

RT: 21.518 min Scan# 3159

Delta R.T. -0.012 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

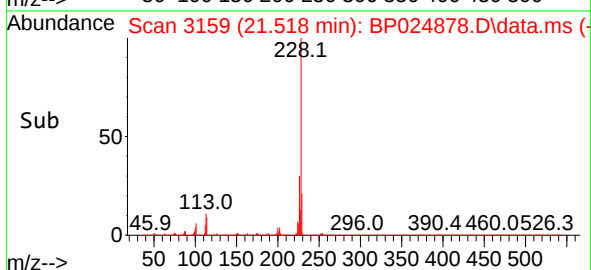
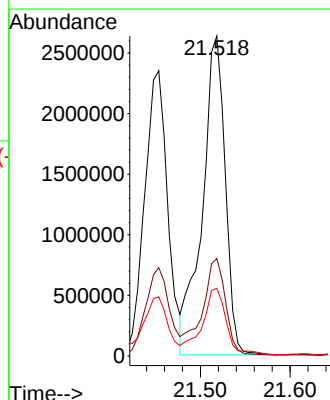
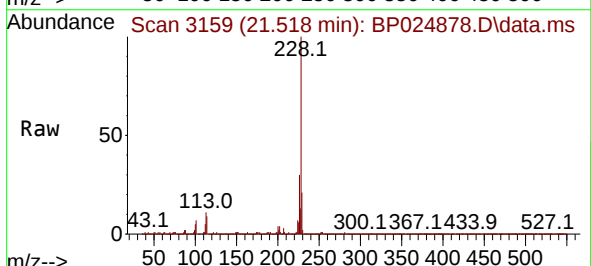
Tgt Ion:228 Resp: 4672742

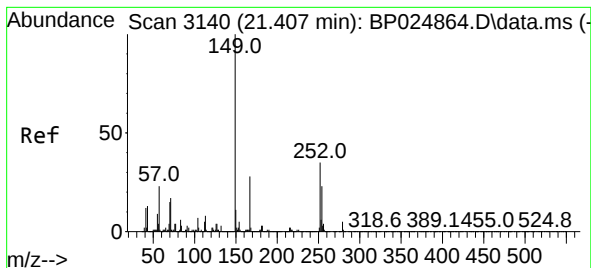
Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.6

229 21.1 15.6 23.4

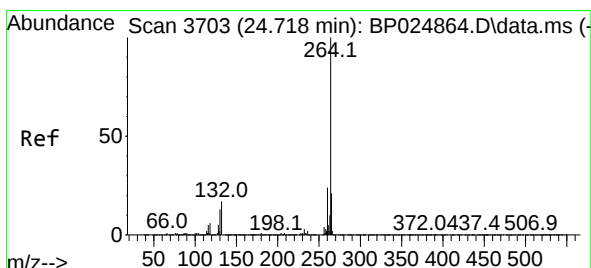
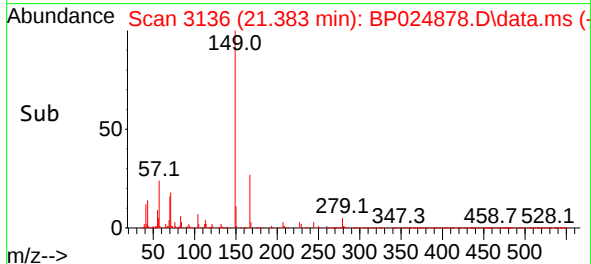
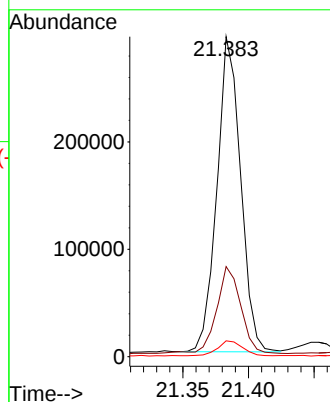
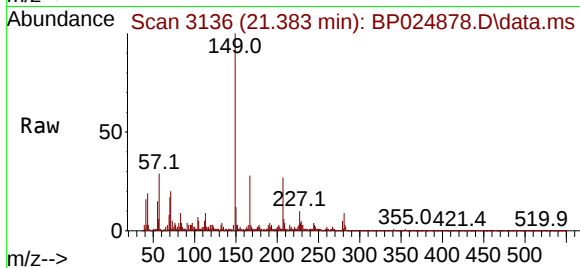




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.813 ng
RT: 21.383 min Scan# 3140
Delta R.T. -0.024 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

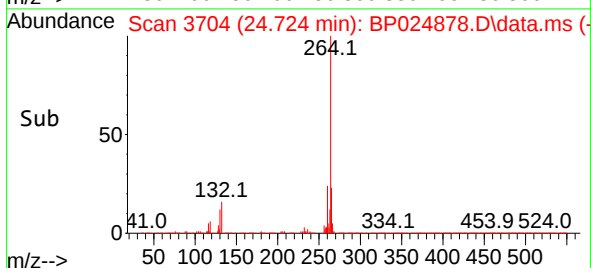
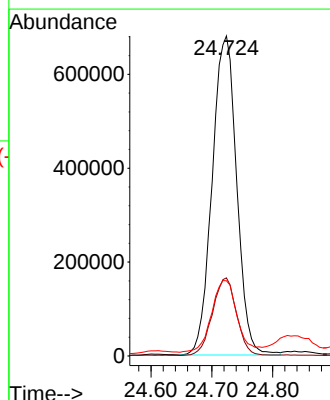
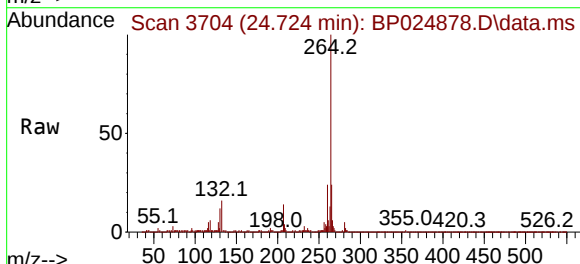
Instrument :
BNA_P
ClientSampleId :
72-11934

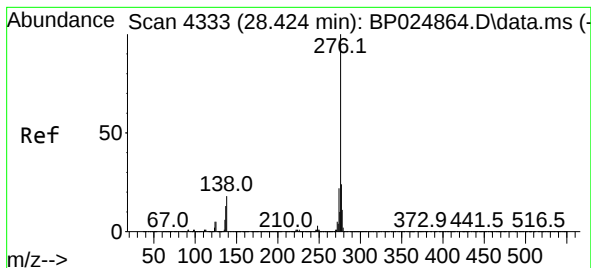
Tgt Ion:149 Resp: 368162
Ion Ratio Lower Upper
149 100
167 28.2 22.2 33.4
279 4.9 4.0 6.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.724 min Scan# 3704
Delta R.T. 0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion:264 Resp: 1898676
Ion Ratio Lower Upper
264 100
260 24.4 19.0 28.4
265 23.5 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.839 ng

RT: 28.412 min Scan# 41

Delta R.T. -0.012 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

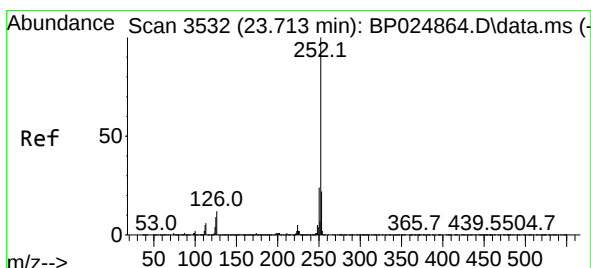
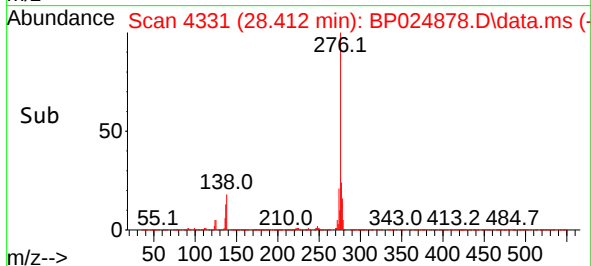
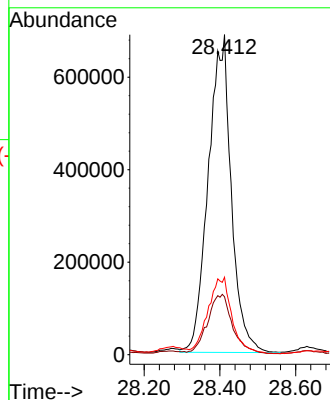
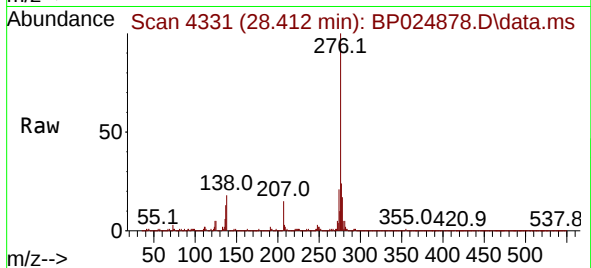
Tgt Ion:276 Resp: 2886914

Ion Ratio Lower Upper

276 100

138 20.3 18.6 27.8

277 25.2 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 48.513 ng

RT: 23.695 min Scan# 3529

Delta R.T. -0.018 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

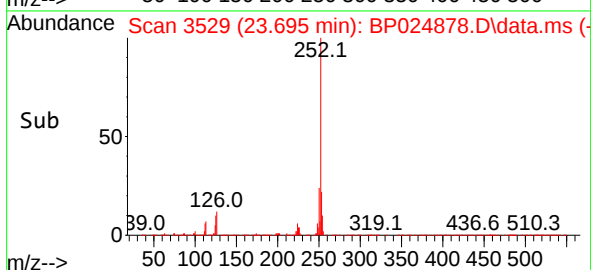
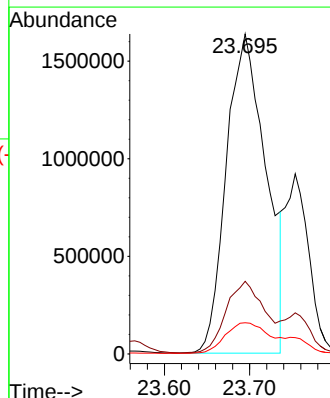
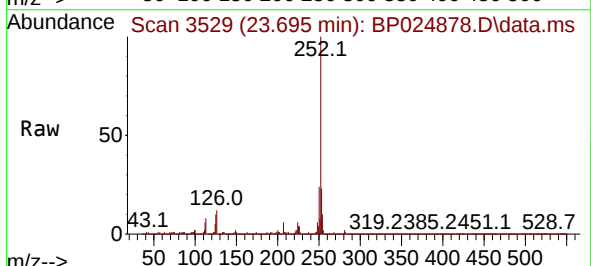
Tgt Ion:252 Resp: 5271524

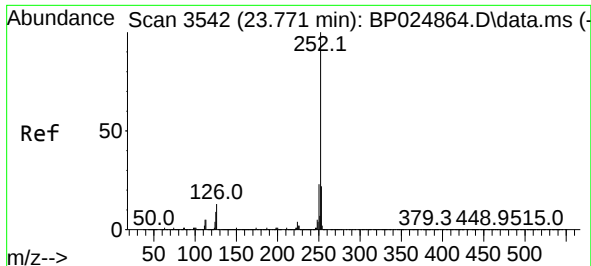
Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 9.8 7.1 10.7

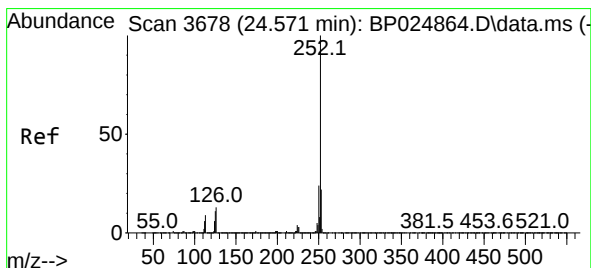
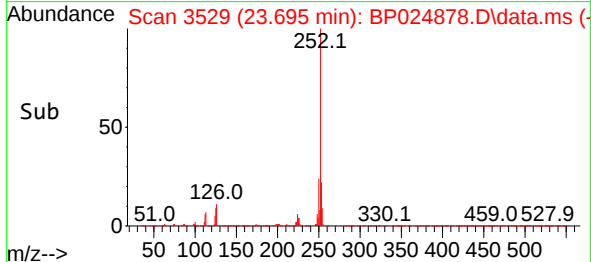
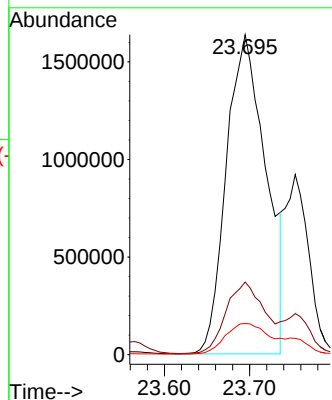
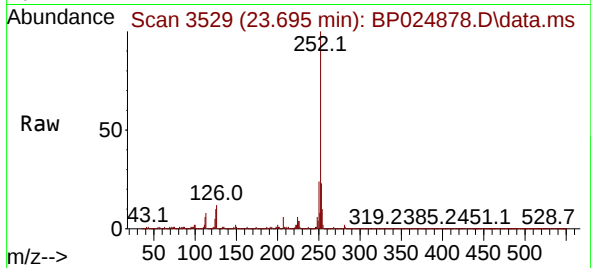




#89
Benzo(k)fluoranthene
Concen: 47.660 ng
RT: 23.695 min Scan# 31
Delta R.T. -0.077 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

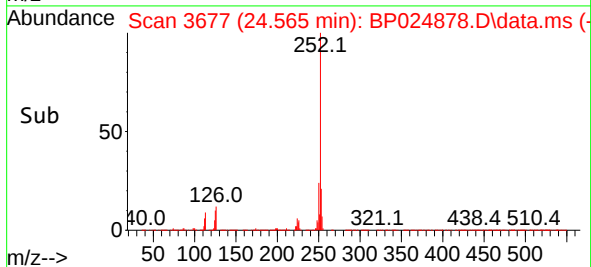
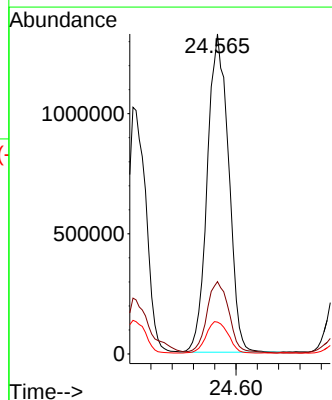
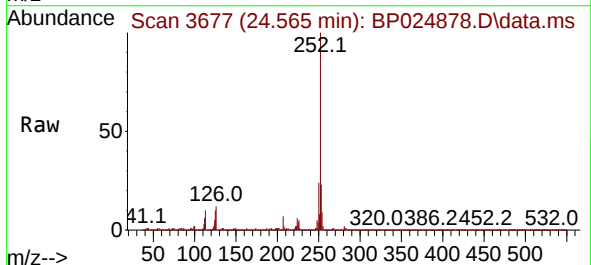
Instrument :
BNA_P
ClientSampleId :
72-11934

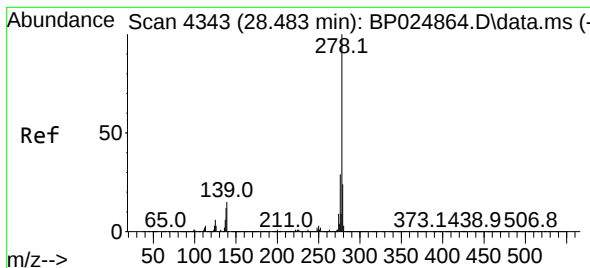
Tgt Ion:252 Resp: 5271524
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 9.8 7.4 11.0



#90
Benzo(a)pyrene
Concen: 34.517 ng
RT: 24.565 min Scan# 3677
Delta R.T. -0.006 min
Lab File: BP024878.D
Acq: 09 Jun 2025 15:33

Tgt Ion:252 Resp: 3662814
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 10.0 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 6.421 ng

RT: 28.430 min Scan# 41

Delta R.T. -0.053 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Instrument :

BNA_P

ClientSampleId :

72-11934

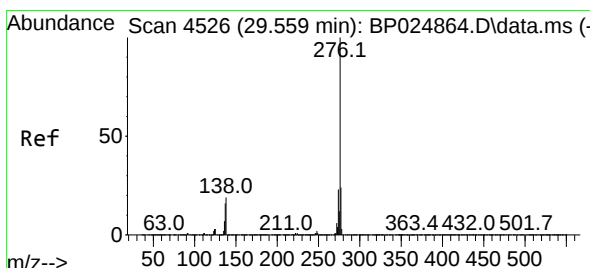
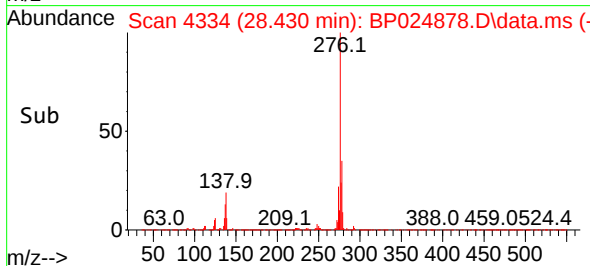
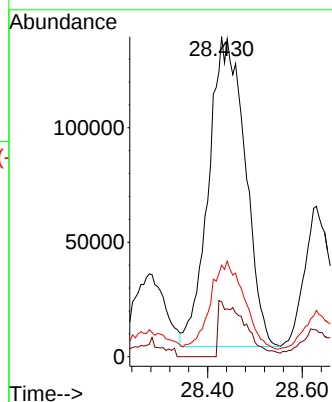
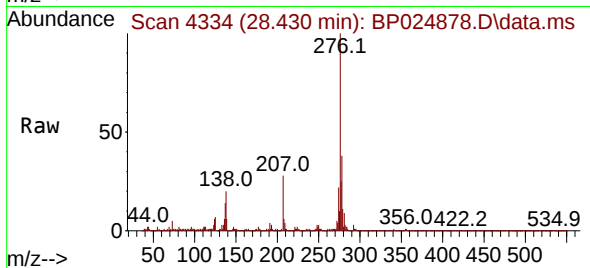
Tgt Ion:278 Resp: 724031

Ion Ratio Lower Upper

278 100

139 17.1 12.0 18.0

279 28.6 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 25.744 ng

RT: 29.535 min Scan# 4522

Delta R.T. -0.024 min

Lab File: BP024878.D

Acq: 09 Jun 2025 15:33

Tgt Ion:276 Resp: 2880279

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 20.8 15.4 23.2

