

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041725\
 Data File : BP024334.D
 Acq On : 17 Apr 2025 20:06
 Operator : RC/JU
 Sample : Q1818-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 RT-3873

Quant Time: Apr 17 23:50:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP041425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 15 04:48:42 2025
 Response via : Initial Calibration

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

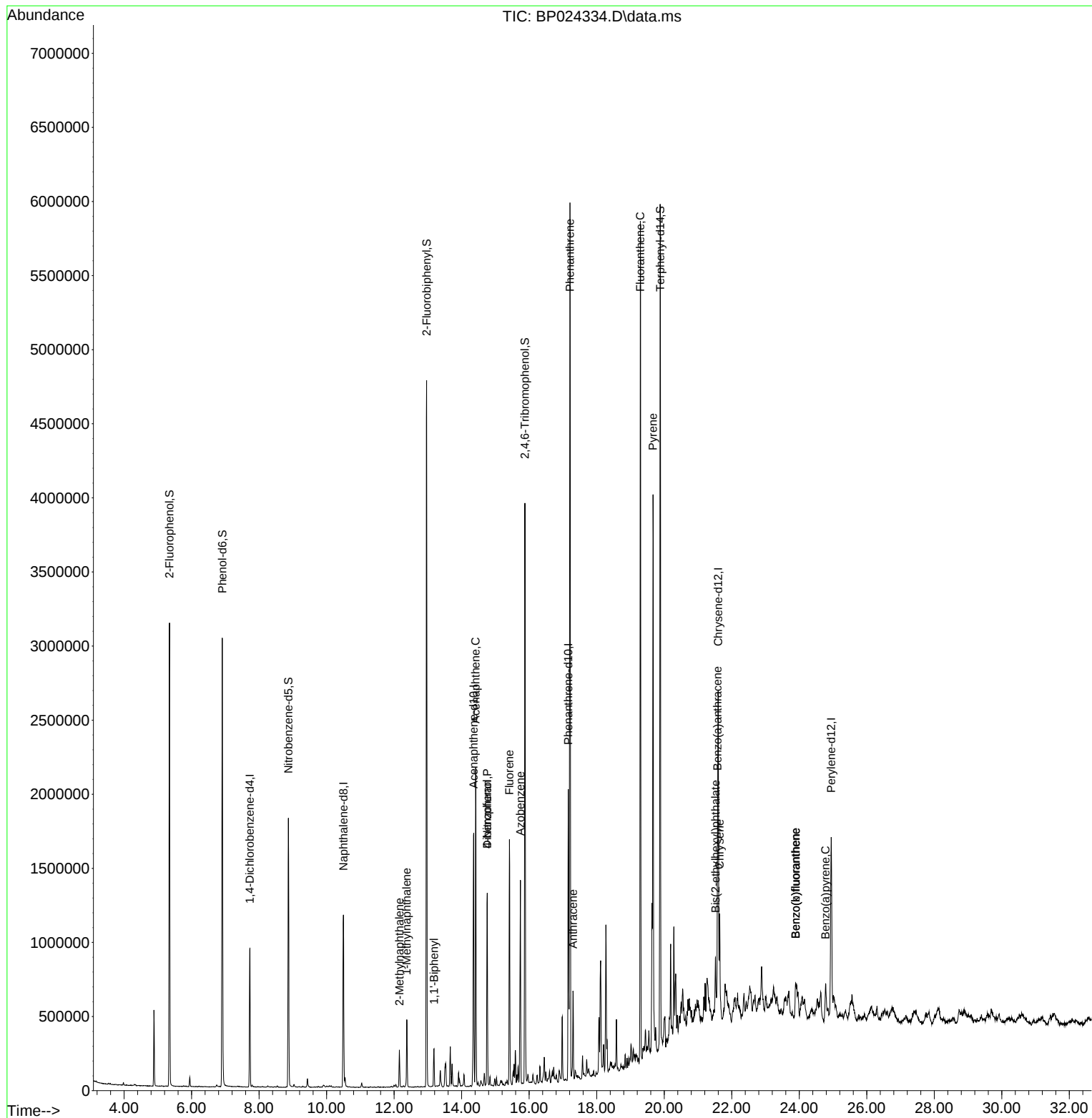
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.728	152	258422	20.000	ng	0.00
21) Naphthalene-d8	10.499	136	1028995	20.000	ng	0.00
39) Acenaphthene-d10	14.357	164	599859	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	1128207	20.000	ng	-0.02
76) Chrysene-d12	21.598	240	961433	20.000	ng	-0.02
86) Perylene-d12	24.945	264	1096618	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	1390195	88.949	ng	0.00
7) Phenol-d6	6.910	99	1828294	85.431	ng	0.00
23) Nitrobenzene-d5	8.869	82	1072044	59.407	ng	-0.01
42) 2,4,6-Tribromophenol	15.875	330	740333	89.204	ng	-0.02
45) 2-Fluorobiphenyl	12.963	172	2366307	60.399	ng	-0.02
79) Terphenyl-d14	19.880	244	3097957	64.948	ng	-0.04
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.157	142	114979	3.059	ng	98
38) 1-Methylnaphthalene	12.375	142	200095	5.441	ng	99
46) 1,1'-Biphenyl	13.181	154	145978	3.311	ng	99
52) Acenaphthene	14.416	154	739336	22.477	ng	99
55) Dibenzofuran	14.757	168	844183	15.701	ng	99
56) 4-Nitrophenol	14.757	139	325654	38.730	ng	# 13
58) Fluorene	15.416	166	729455	17.526	ng	99
63) Azobenzene	15.739	77	325748	7.884	ng	# 1
71) Phenanthrene	17.210	178	3925443	63.780	ng	100
72) Anthracene	17.304	178	355991	6.001	ng	100
75) Fluoranthene	19.292	202	3170265	43.310	ng	99
78) Pyrene	19.669	202	2322114	38.005	ng	98
81) Benzo(a)anthracene	21.580	228	590320	9.878	ng	99
83) Chrysene	21.639	228	406581	7.102	ng	97
84) Bis(2-ethylhexyl)phtha...	21.522	149	122377	3.190	ng	99
88) Benzo(b)fluoranthene	23.892	252	359988	5.477	ng	95
89) Benzo(k)fluoranthene	23.892	252	359988	5.670	ng	95
90) Benzo(a)pyrene	24.780	252	221124	3.900	ng	# 95

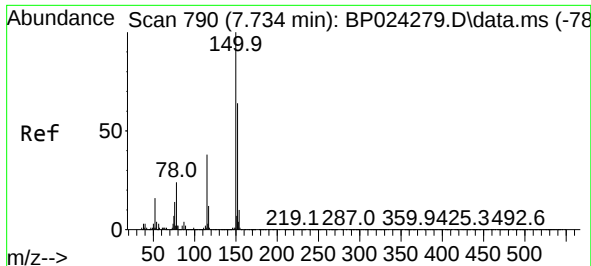
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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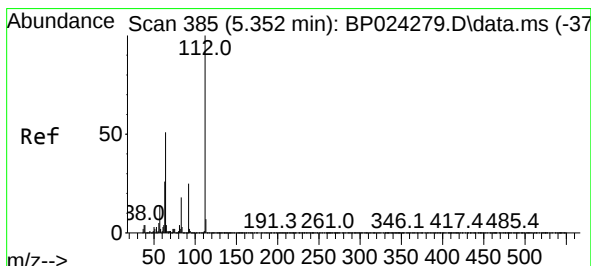
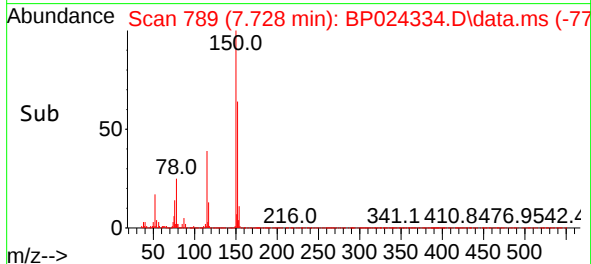
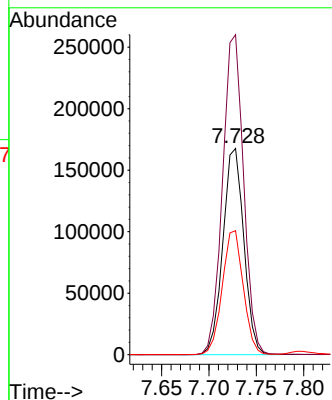
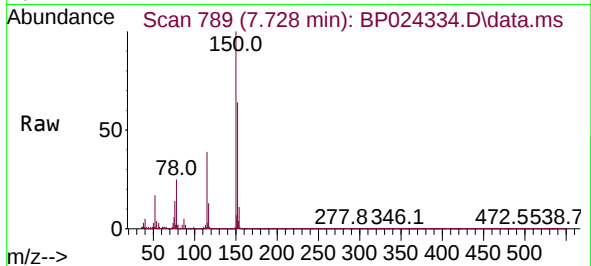




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.728 min Scan# 71
Delta R.T. 0.000 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

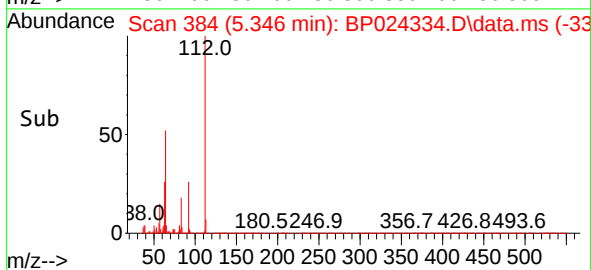
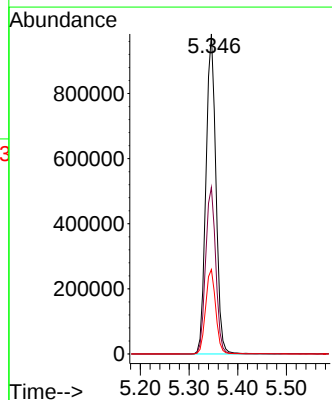
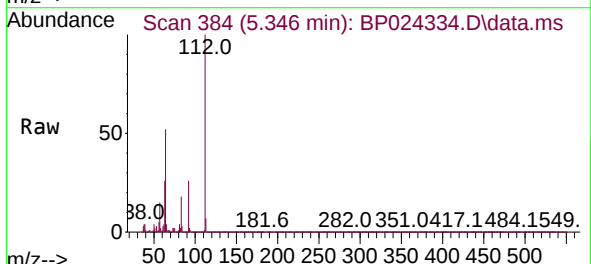
Instrument :
BNA_P
ClientSampleId :
RT-3873

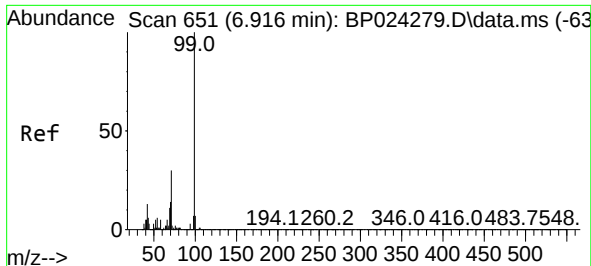
Tgt Ion:152 Resp: 258422
Ion Ratio Lower Upper
152 100
150 155.2 124.9 187.3
115 60.1 47.7 71.5



#5
2-Fluorophenol
Concen: 88.949 ng
RT: 5.346 min Scan# 384
Delta R.T. -0.006 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion:112 Resp: 1390195
Ion Ratio Lower Upper
112 100
64 52.1 41.1 61.7
63 26.4 20.6 30.8





#7

Phenol-d6

Concen: 85.431 ng

RT: 6.910 min Scan# 61

Delta R.T. -0.006 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

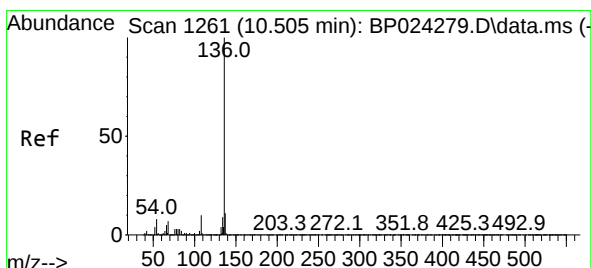
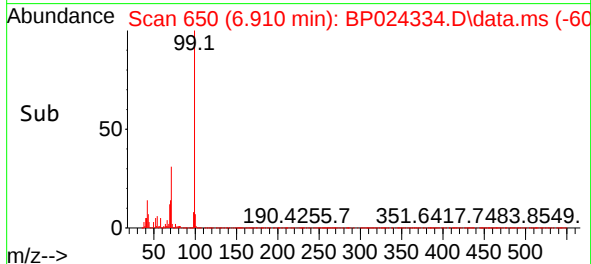
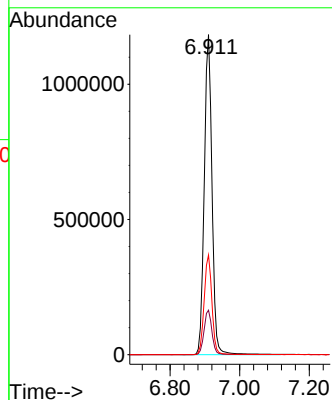
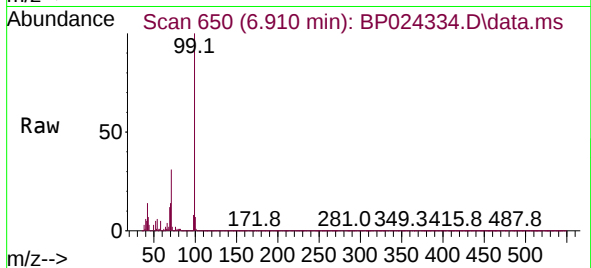
BNA_P

ClientSampleId :

RT-3873

Tgt Ion: 99 Resp: 1828294

Ion	Ratio	Lower	Upper
99	100		
42	13.9	10.6	16.0
71	31.2	23.7	35.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.499 min Scan# 1260

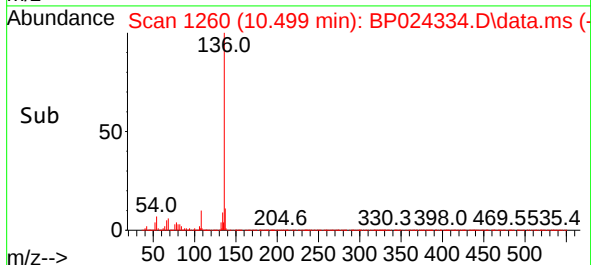
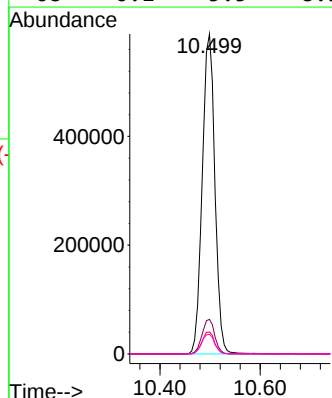
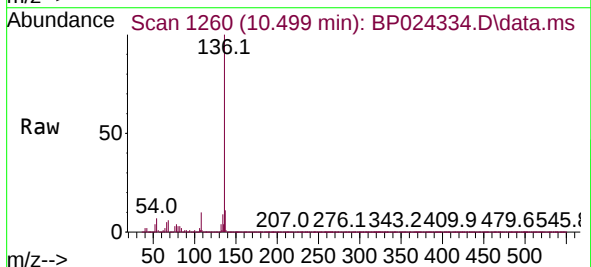
Delta R.T. -0.006 min

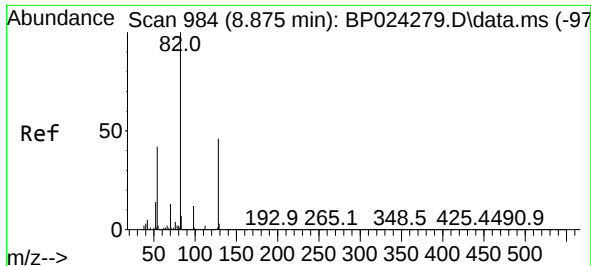
Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Tgt Ion:136 Resp: 1028995

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.2	13.8
54	6.9	6.0	9.0
68	6.1	5.5	8.3

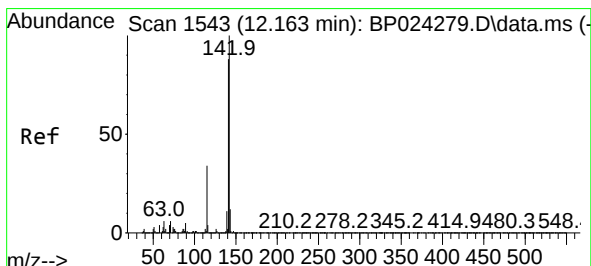
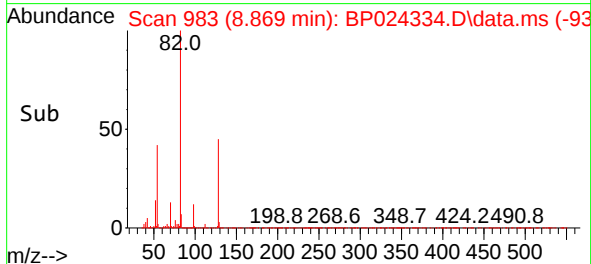
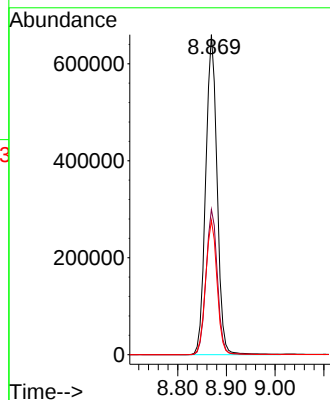
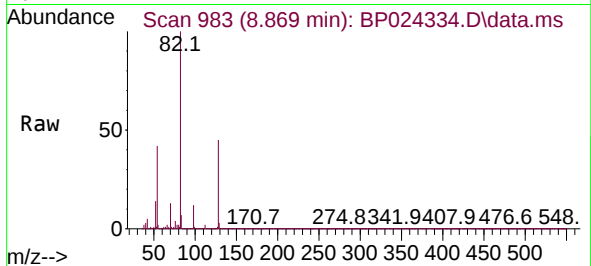




#23
Nitrobenzene-d5
Concen: 59.407 ng
RT: 8.869 min Scan# 91
Delta R.T. -0.012 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

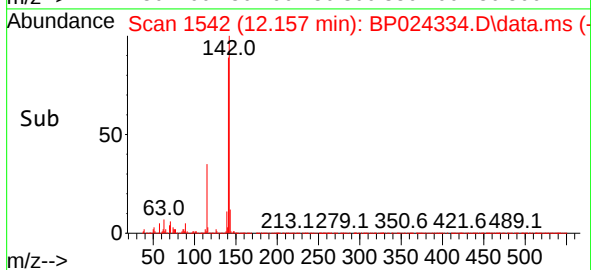
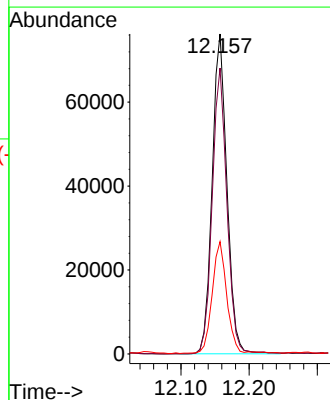
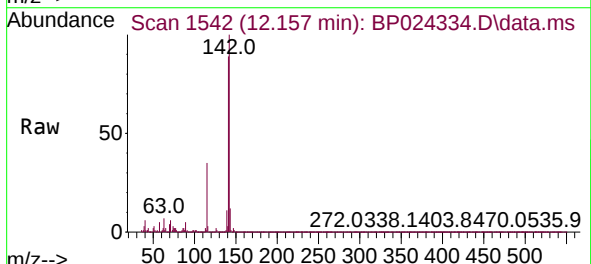
Instrument :
BNA_P
ClientSampleId :
RT-3873

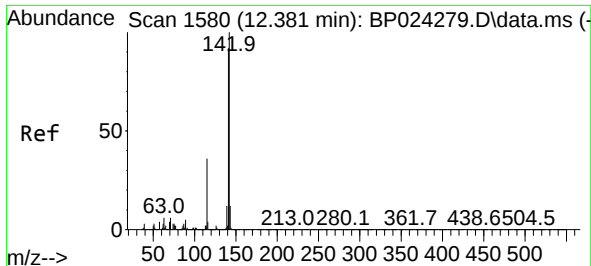
Tgt Ion: 82 Resp: 1072044
Ion Ratio Lower Upper
82 100
128 45.4 36.5 54.7
54 41.9 33.4 50.2



#37
2-Methylnaphthalene
Concen: 3.059 ng
RT: 12.157 min Scan# 1542
Delta R.T. -0.012 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion: 142 Resp: 114979
Ion Ratio Lower Upper
142 100
141 89.4 70.3 105.5
115 35.1 26.9 40.3

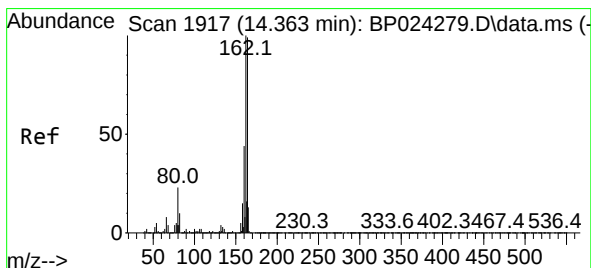
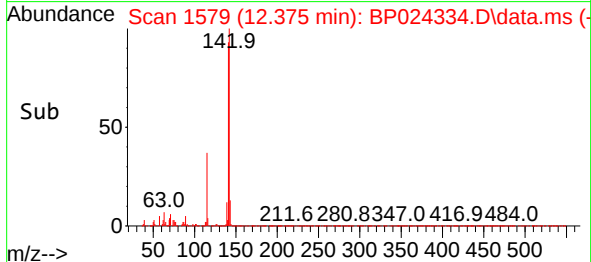
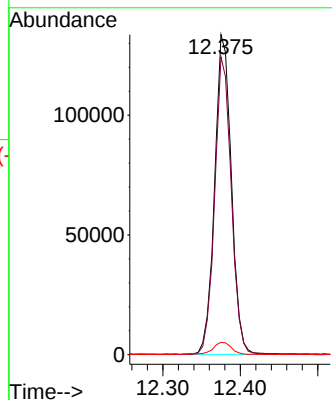
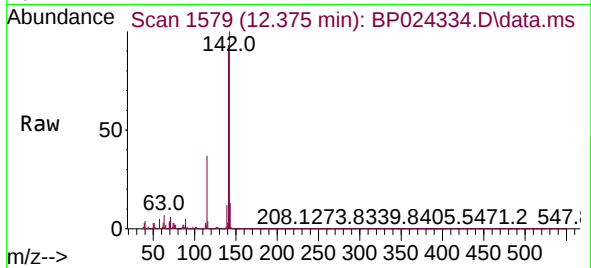




#38
1-Methylnaphthalene
Concen: 5.441 ng
RT: 12.375 min Scan# 11
Delta R.T. -0.018 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

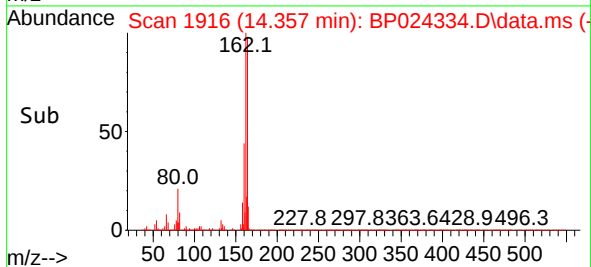
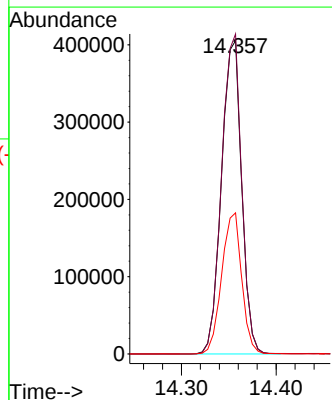
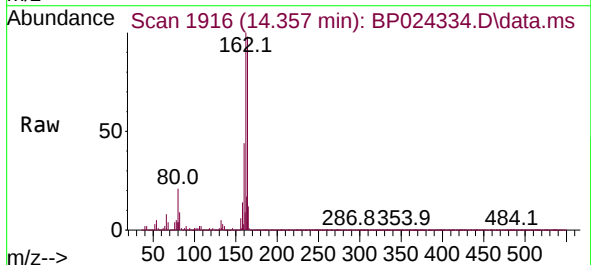
Instrument :
BNA_P
ClientSampleId :
RT-3873

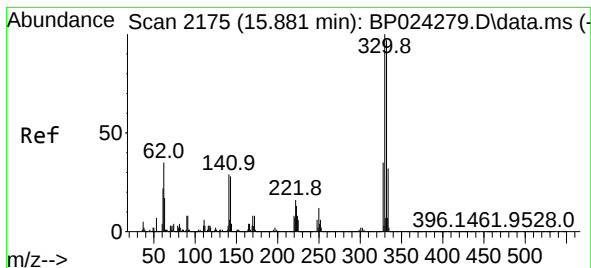
Tgt Ion:142 Resp: 200095
Ion Ratio Lower Upper
142 100
141 93.1 73.6 110.4
116 3.8 3.0 4.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.012 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion:164 Resp: 599859
Ion Ratio Lower Upper
164 100
162 102.2 80.6 120.8
160 45.1 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 89.204 ng

RT: 15.875 min Scan# 2175

Delta R.T. -0.018 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

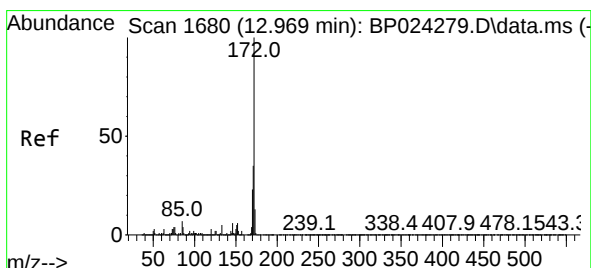
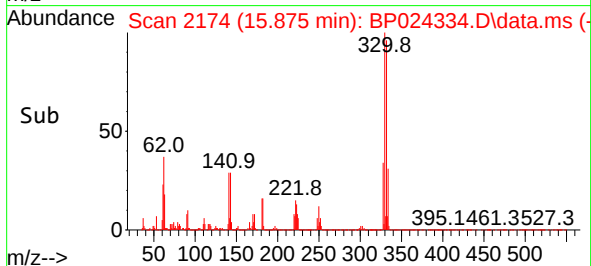
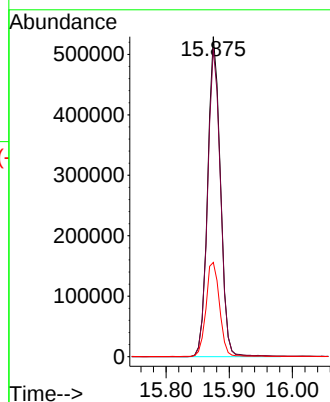
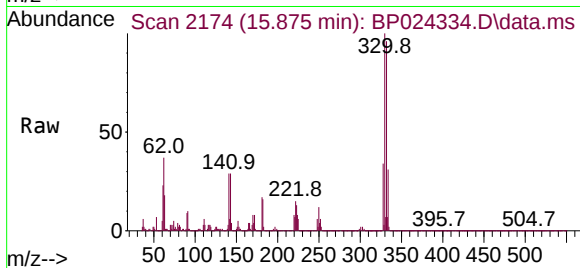
Tgt Ion:330 Resp: 740333

Ion Ratio Lower Upper

330 100

332 97.3 77.1 115.7

141 31.1 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 60.399 ng

RT: 12.963 min Scan# 1679

Delta R.T. -0.018 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

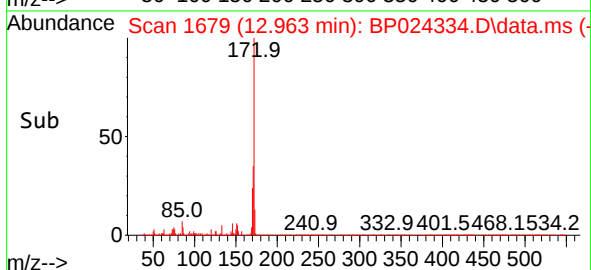
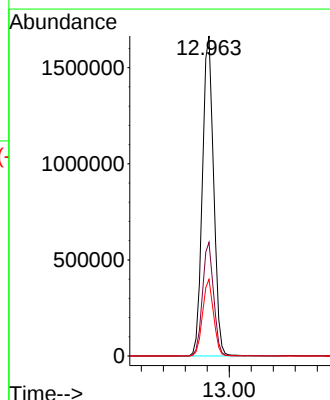
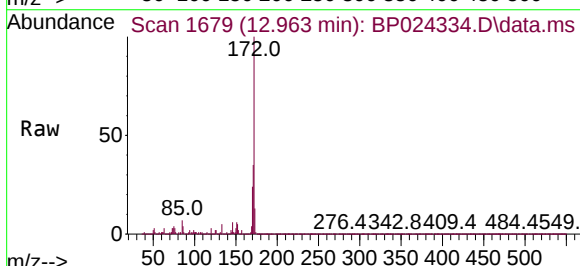
Tgt Ion:172 Resp: 2366307

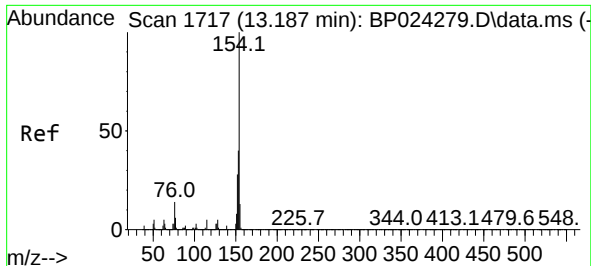
Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.2

170 23.9 18.6 27.8

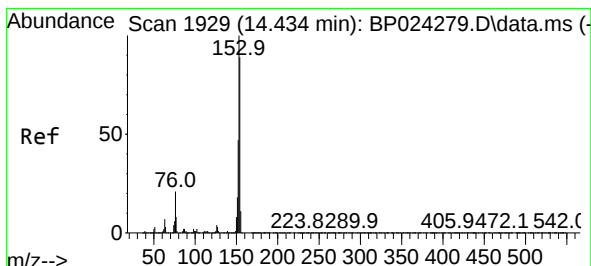
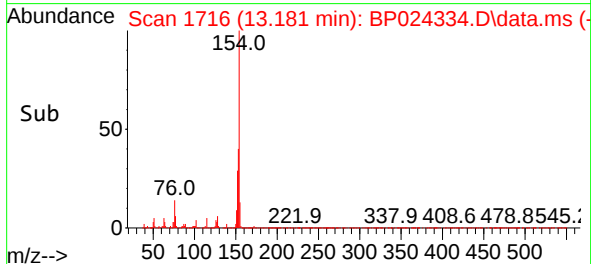
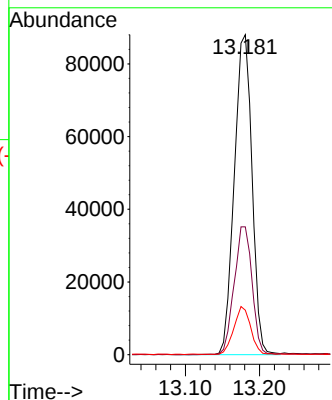
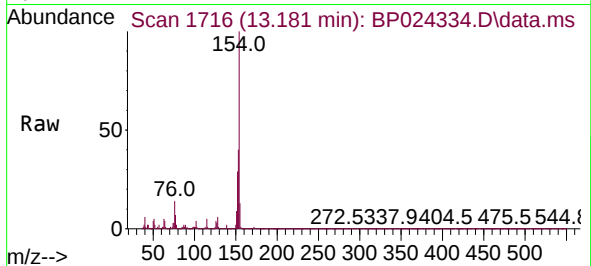




#46
1,1'-Biphenyl
Concen: 3.311 ng
RT: 13.181 min Scan# 11
Delta R.T. -0.018 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

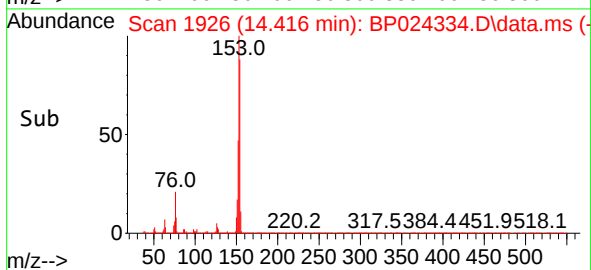
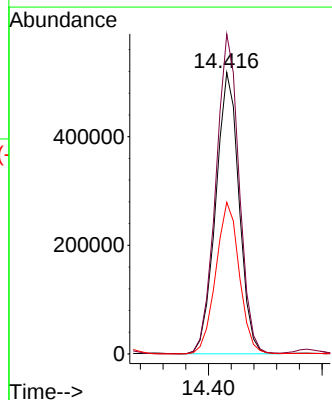
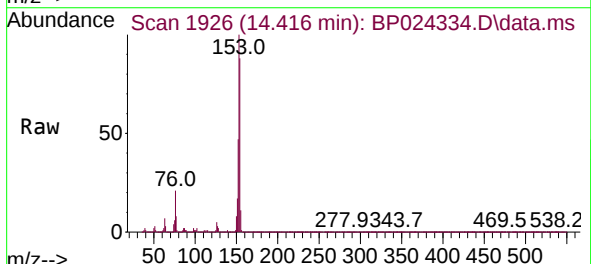
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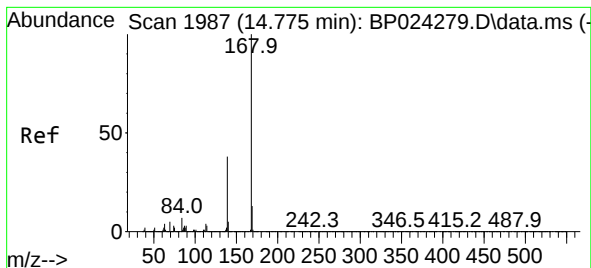
Tgt Ion:154 Resp: 145978
Ion Ratio Lower Upper
154 100
153 39.9 20.3 60.3
76 13.9 0.0 33.5



#52
Acenaphthene
Concen: 22.477 ng
RT: 14.416 min Scan# 1926
Delta R.T. -0.023 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion:154 Resp: 739336
Ion Ratio Lower Upper
154 100
153 113.7 89.8 134.6
152 53.9 42.6 63.8





#55

Dibenzenofuran

Concen: 15.701 ng

RT: 14.757 min Scan# 1984

Delta R.T. -0.023 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

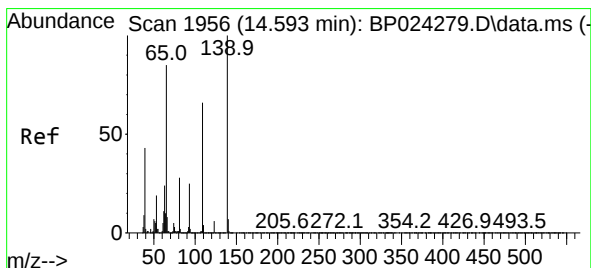
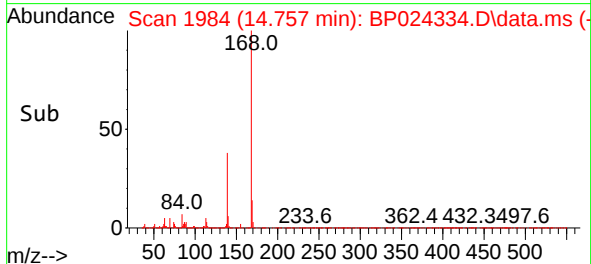
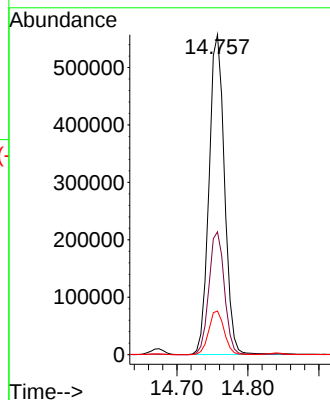
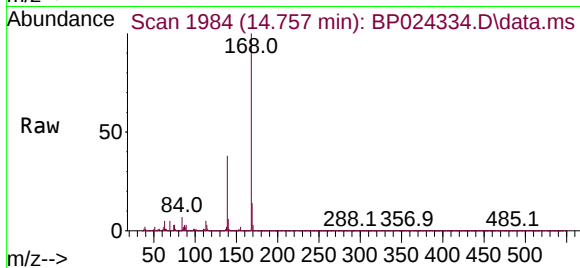
Tgt Ion:168 Resp: 844183

Ion Ratio Lower Upper

168 100

139 38.4 30.3 45.5

169 13.7 10.6 16.0



#56

4-Nitrophenol

Concen: 38.730 ng

RT: 14.757 min Scan# 1984

Delta R.T. 0.153 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

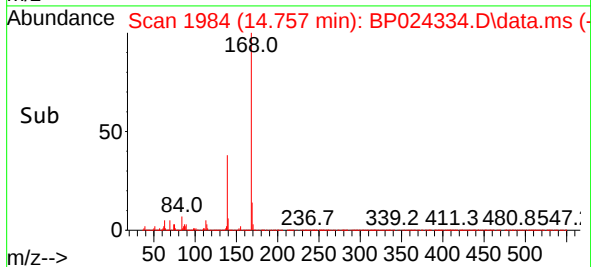
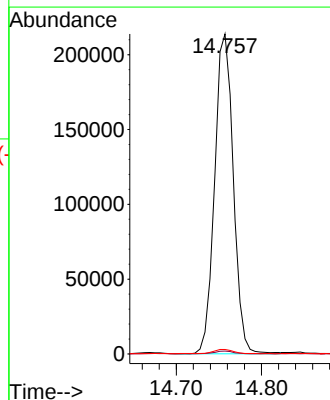
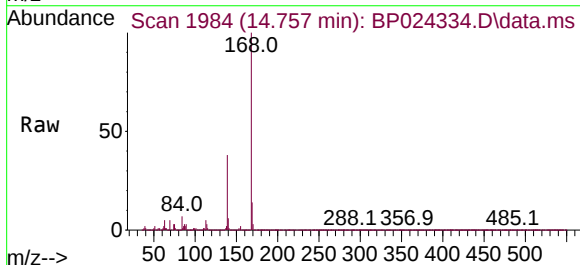
Tgt Ion:139 Resp: 325654

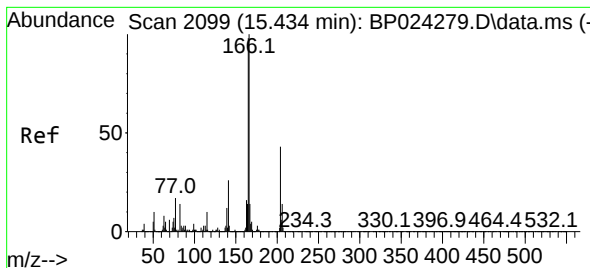
Ion Ratio Lower Upper

139 100

109 0.9 46.1 86.1#

65 1.4 65.0 105.0#





#58

Fluorene

Concen: 17.526 ng

RT: 15.416 min Scan# 2099

Delta R.T. -0.023 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

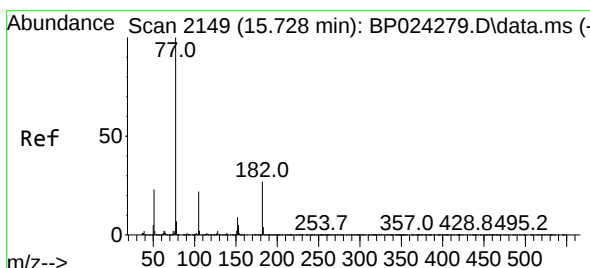
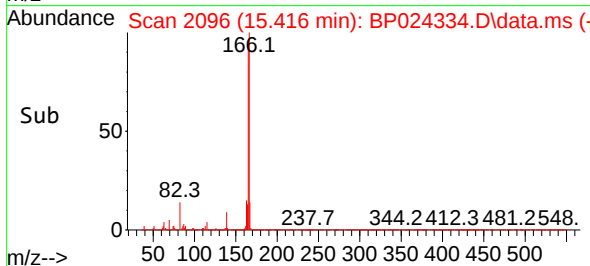
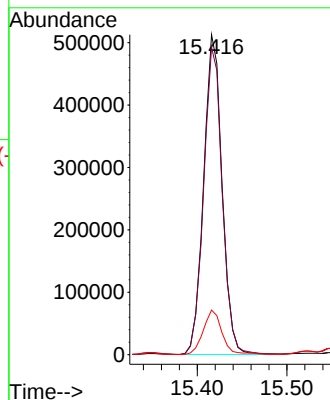
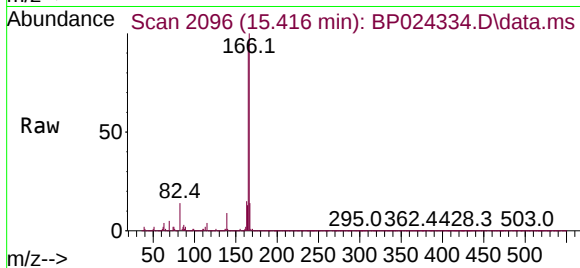
Tgt Ion:166 Resp: 729455

Ion Ratio Lower Upper

166 100

165 96.0 78.1 117.1

167 14.0 10.9 16.3



#63

Azobenzene

Concen: 7.884 ng

RT: 15.739 min Scan# 2151

Delta R.T. 0.000 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Tgt Ion: 77 Resp: 325748

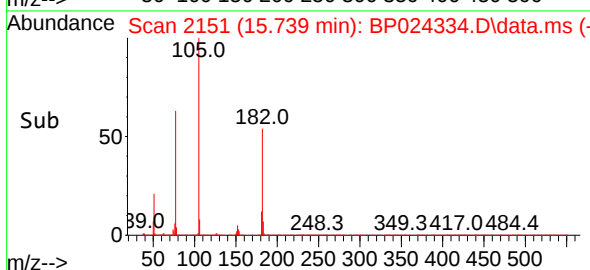
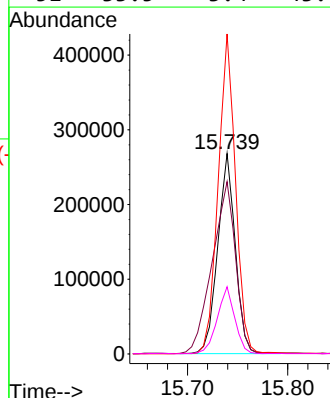
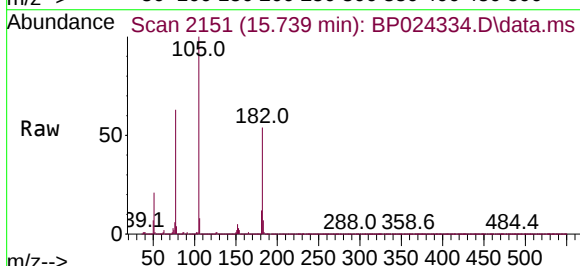
Ion Ratio Lower Upper

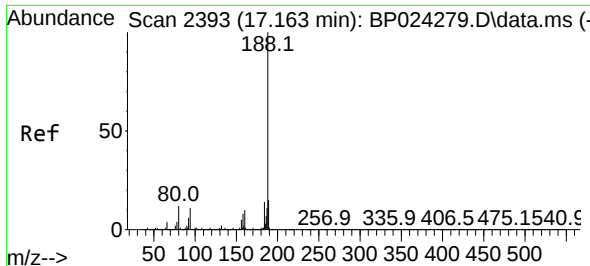
77 100

182 86.0 7.3 47.3#

105 159.7 2.3 42.3#

51 33.5 3.4 43.4

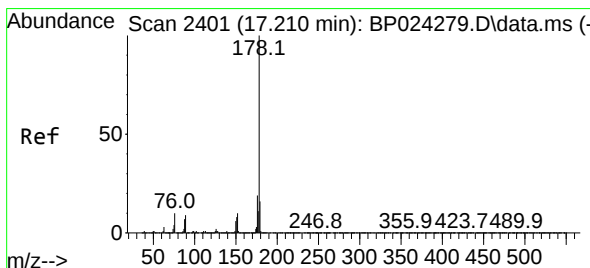
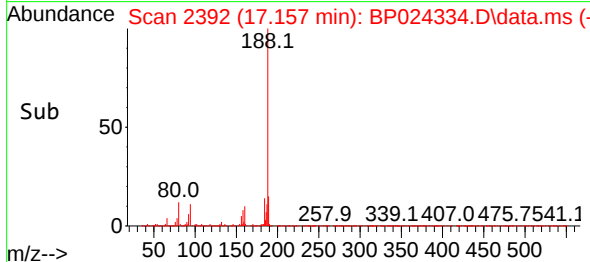
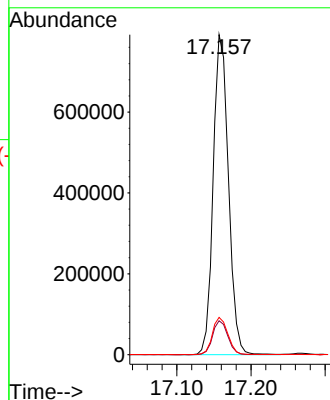
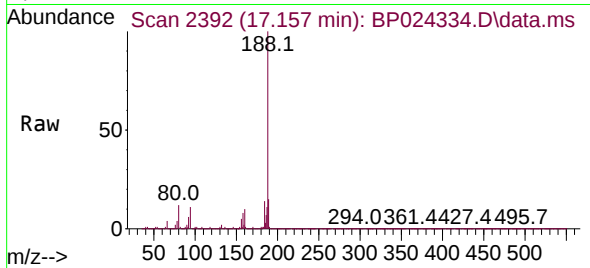




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 21
Delta R.T. -0.023 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

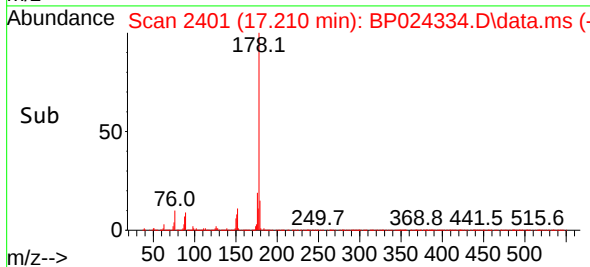
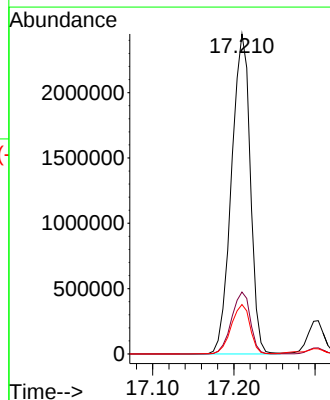
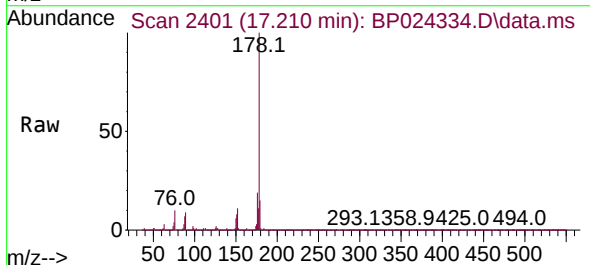
Instrument :
BNA_P
ClientSampleId :
RT-3873

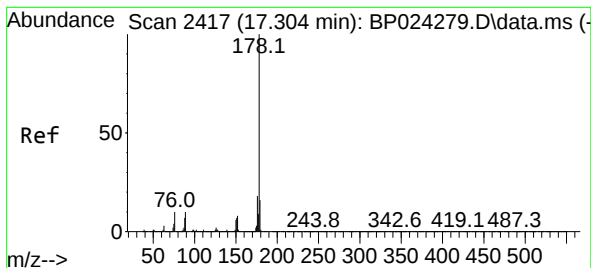
Tgt Ion:188 Resp: 1128207
Ion Ratio Lower Upper
188 100
94 10.6 8.6 13.0
80 11.7 9.8 14.6



#71
Phenanthrene
Concen: 63.780 ng
RT: 17.210 min Scan# 2401
Delta R.T. -0.018 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion:178 Resp: 3925443
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.5 12.5 18.7





#72

Anthracene

Concen: 6.001 ng

RT: 17.304 min Scan# 2417

Delta R.T. -0.012 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

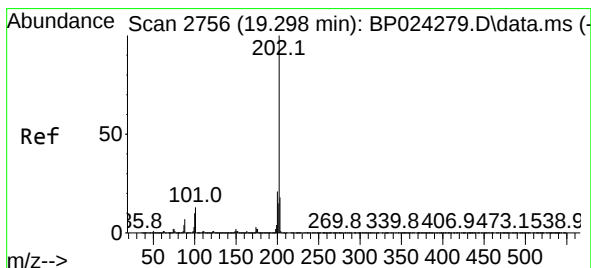
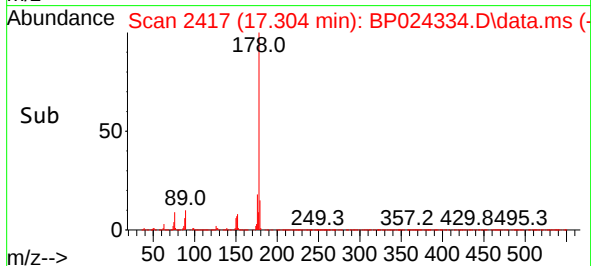
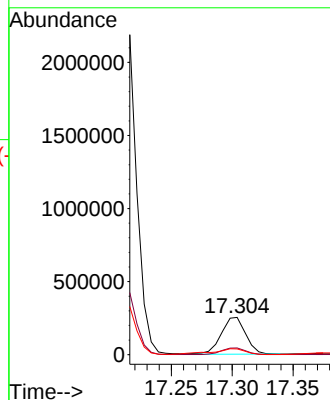
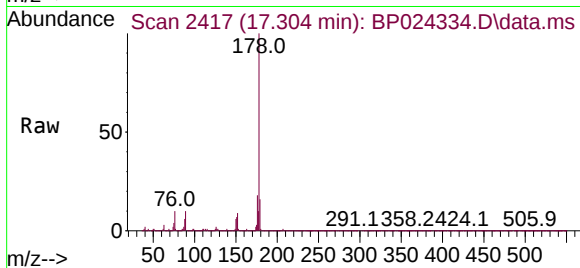
Tgt Ion:178 Resp: 355991

Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 15.6 12.4 18.6



#75

Fluoranthene

Concen: 43.310 ng

RT: 19.292 min Scan# 2755

Delta R.T. -0.023 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

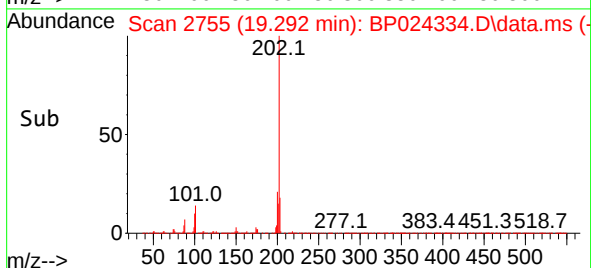
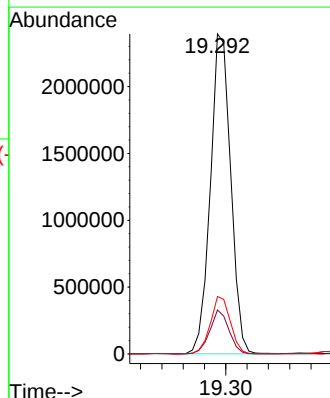
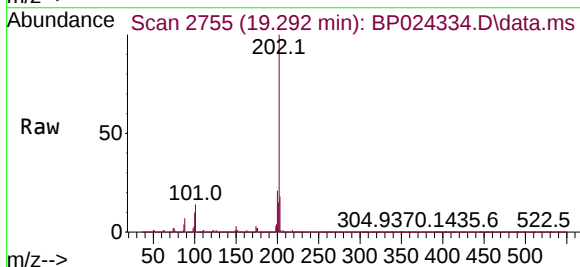
Tgt Ion:202 Resp: 3170265

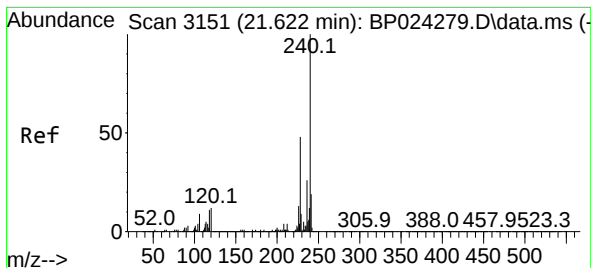
Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

203 18.0 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.598 min Scan# 3151

Delta R.T. -0.023 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

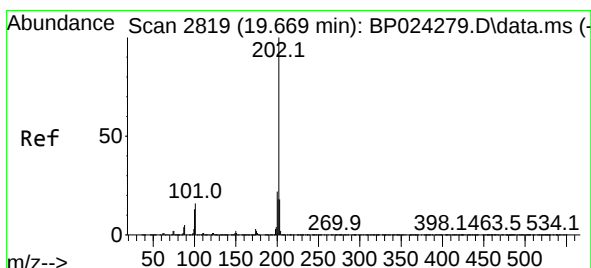
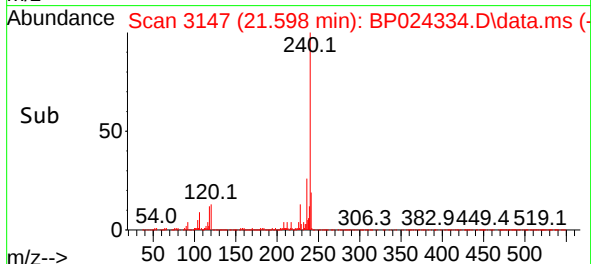
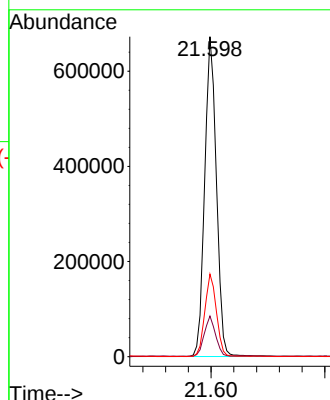
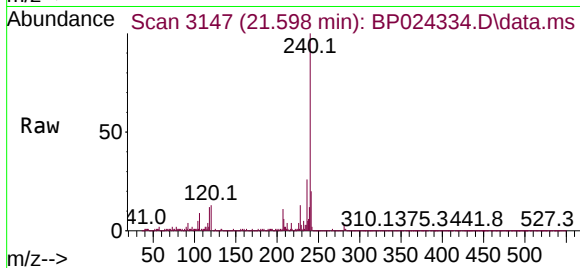
Tgt Ion:240 Resp: 961433

Ion Ratio Lower Upper

240 100

120 12.7 9.8 14.8

236 25.8 20.9 31.3



#78

Pyrene

Concen: 38.005 ng

RT: 19.669 min Scan# 2819

Delta R.T. -0.018 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

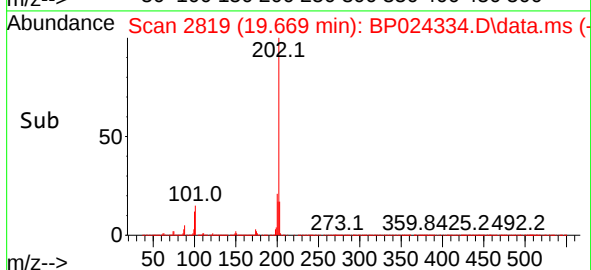
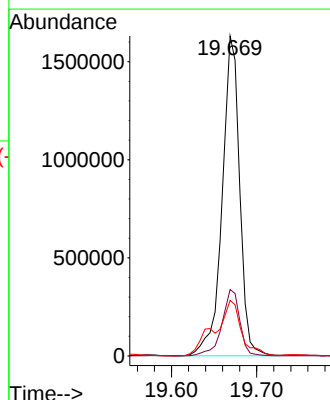
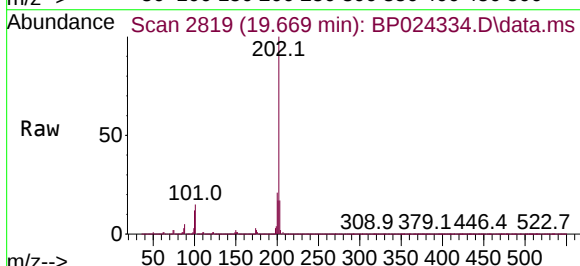
Tgt Ion:202 Resp: 2322114

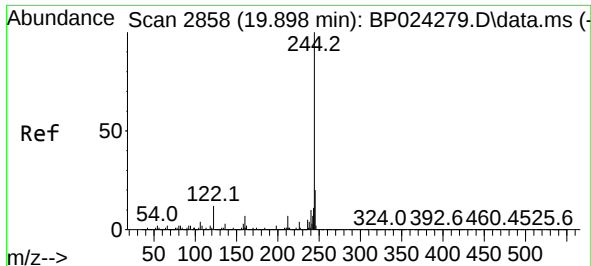
Ion Ratio Lower Upper

202 100

200 20.8 17.2 25.8

203 17.3 14.4 21.6

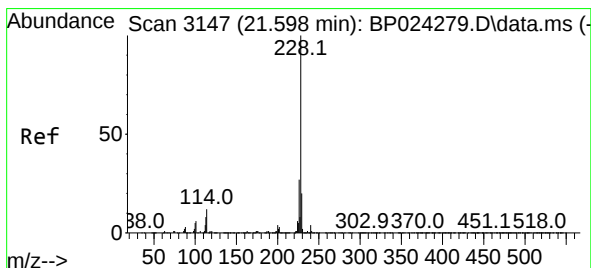
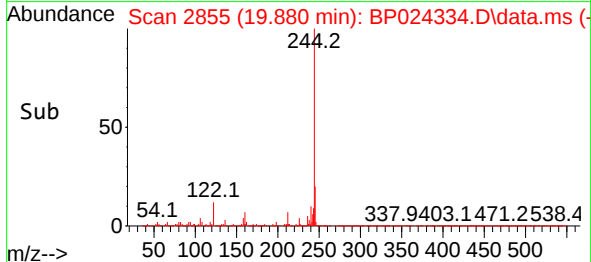
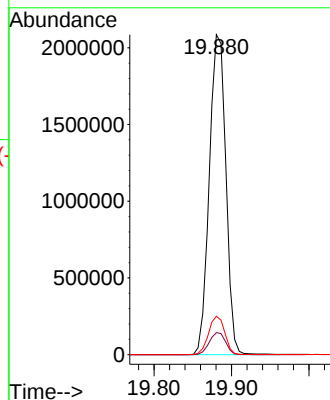
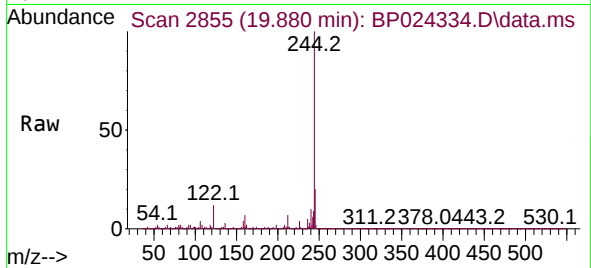




#79
 Terphenyl-d14
 Concen: 64.948 ng
 RT: 19.880 min Scan# 21
 Delta R.T. -0.041 min
 Lab File: BP024334.D
 Acq: 17 Apr 2025 20:06

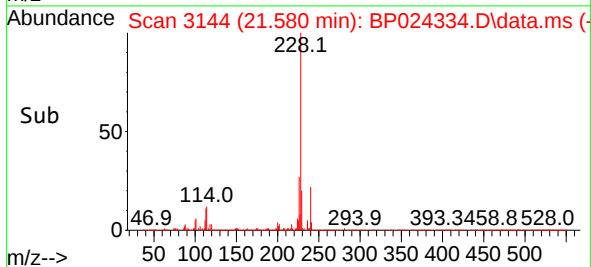
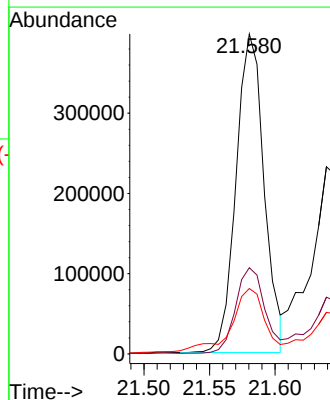
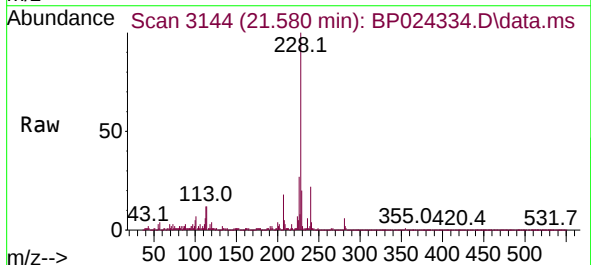
Instrument :
 BNA_P
 ClientSampleId :
 RT-3873

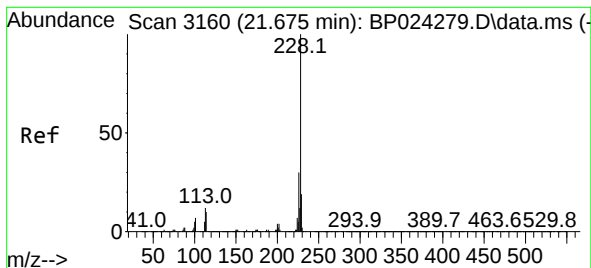
Tgt Ion:244 Resp: 3097957
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 12.0 9.4 14.0



#81
 Benzo(a)anthracene
 Concen: 9.878 ng
 RT: 21.580 min Scan# 3144
 Delta R.T. -0.023 min
 Lab File: BP024334.D
 Acq: 17 Apr 2025 20:06

Tgt Ion:228 Resp: 590320
 Ion Ratio Lower Upper
 228 100
 226 27.0 21.8 32.8
 229 20.4 15.9 23.9





#83

Chrysene

Concen: 7.102 ng

RT: 21.639 min Scan# 3160

Delta R.T. -0.041 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

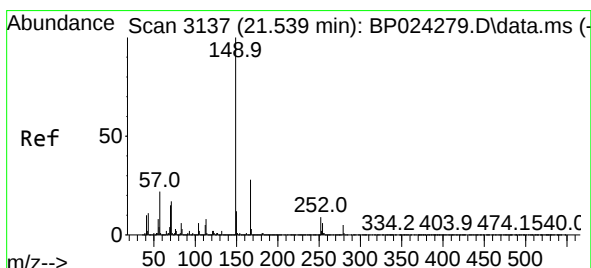
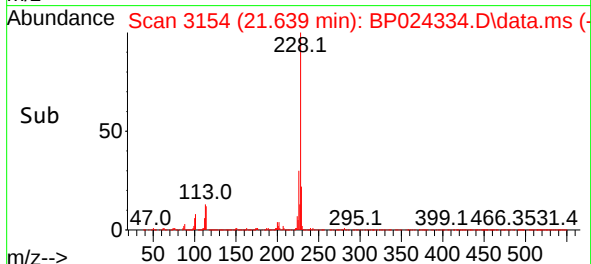
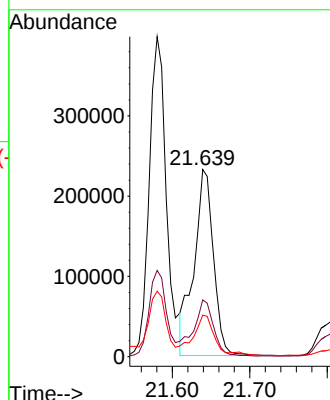
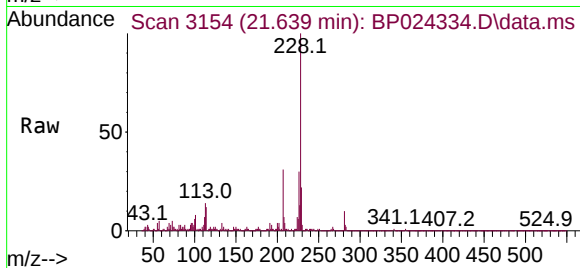
Tgt Ion:228 Resp: 406581

Ion Ratio Lower Upper

228 100

226 30.4 24.2 36.2

229 22.2 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.190 ng

RT: 21.522 min Scan# 3134

Delta R.T. -0.023 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

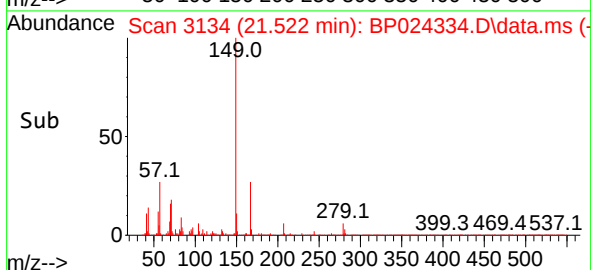
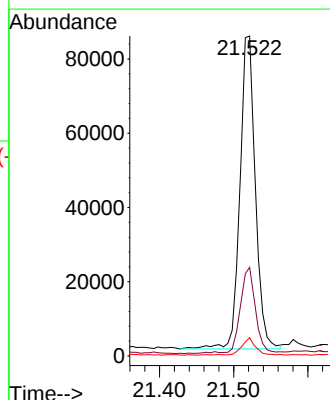
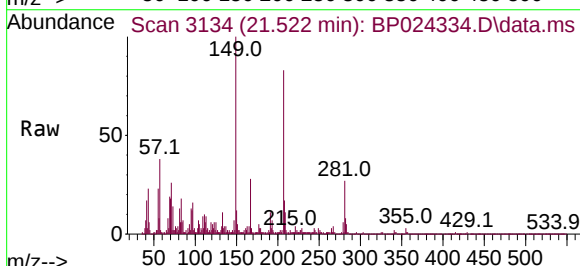
Tgt Ion:149 Resp: 122377

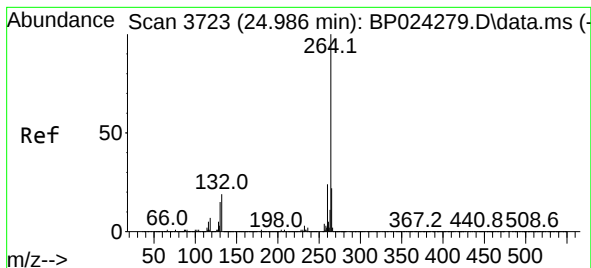
Ion Ratio Lower Upper

149 100

167 27.7 22.4 33.6

279 5.7 4.0 6.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.945 min Scan# 31

Delta R.T. -0.041 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

Instrument :

BNA_P

ClientSampleId :

RT-3873

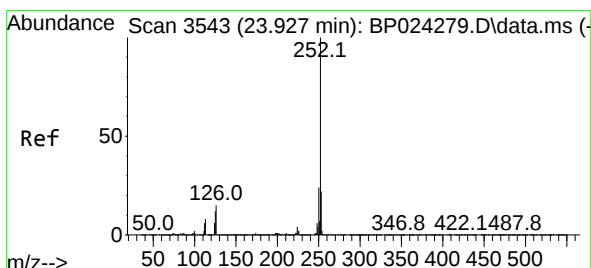
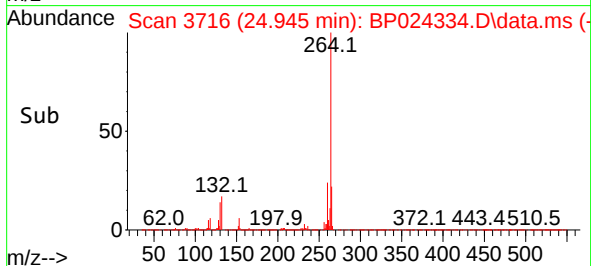
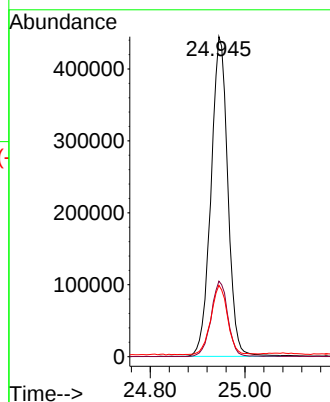
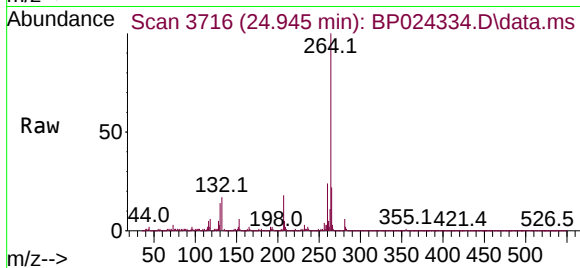
Tgt Ion:264 Resp: 1096618

Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 22.3 17.8 26.6



#88

Benzo(b)fluoranthene

Concen: 5.477 ng

RT: 23.892 min Scan# 3537

Delta R.T. -0.041 min

Lab File: BP024334.D

Acq: 17 Apr 2025 20:06

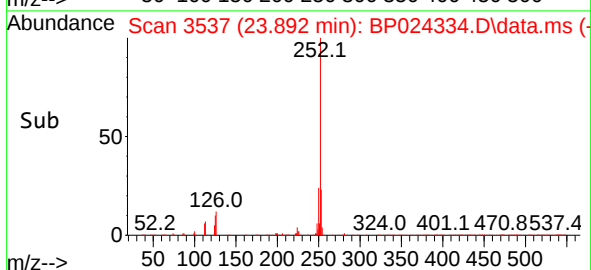
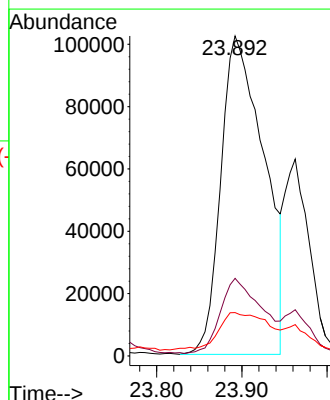
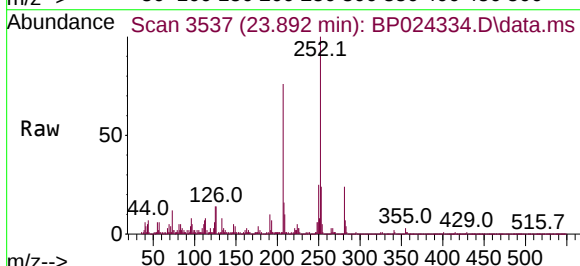
Tgt Ion:252 Resp: 359988

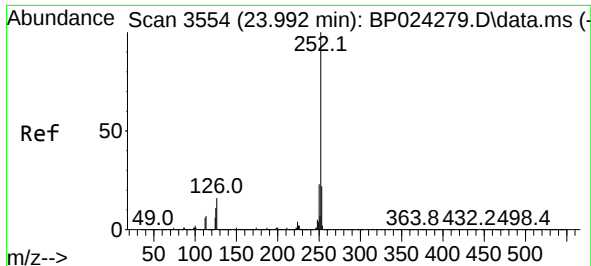
Ion Ratio Lower Upper

252 100

253 24.3 17.7 26.5

125 13.6 9.4 14.0

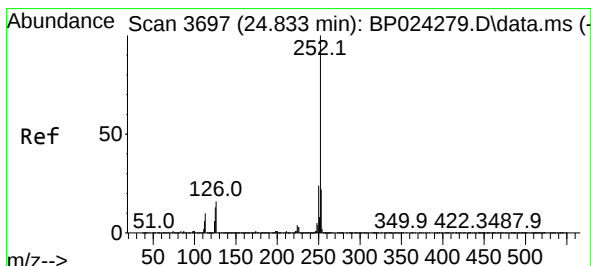
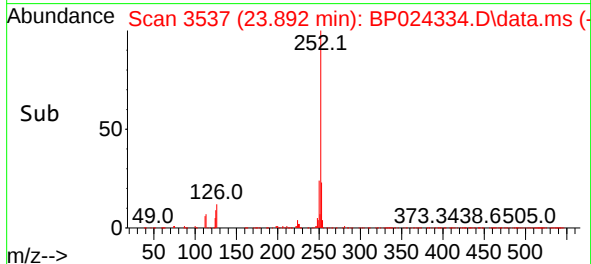
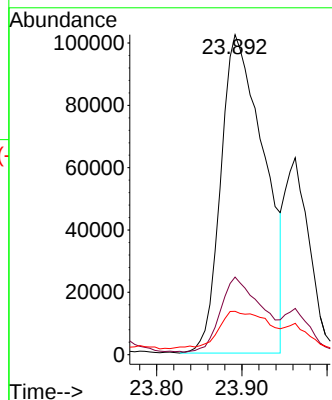
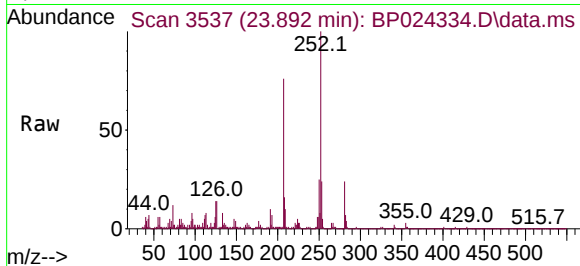




#89
Benzo(k)fluoranthene
Concen: 5.670 ng
RT: 23.892 min Scan# 31
Delta R.T. -0.106 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Instrument :
BNA_P
ClientSampleId :
RT-3873

Tgt Ion:252 Resp: 359988
Ion Ratio Lower Upper
252 100
253 24.3 17.7 26.5
125 13.6 9.1 13.7



#90
Benzo(a)pyrene
Concen: 3.900 ng
RT: 24.780 min Scan# 3688
Delta R.T. -0.053 min
Lab File: BP024334.D
Acq: 17 Apr 2025 20:06

Tgt Ion:252 Resp: 221124
Ion Ratio Lower Upper
252 100
253 23.4 17.6 26.4
125 15.5 10.1 15.1#

