

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102825\
 Data File : BF144116.D
 Acq On : 28 Oct 2025 22:40
 Operator : RC/JU
 Sample : Q3447-01DL 4X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01DL

Quant Time: Oct 29 05:48:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

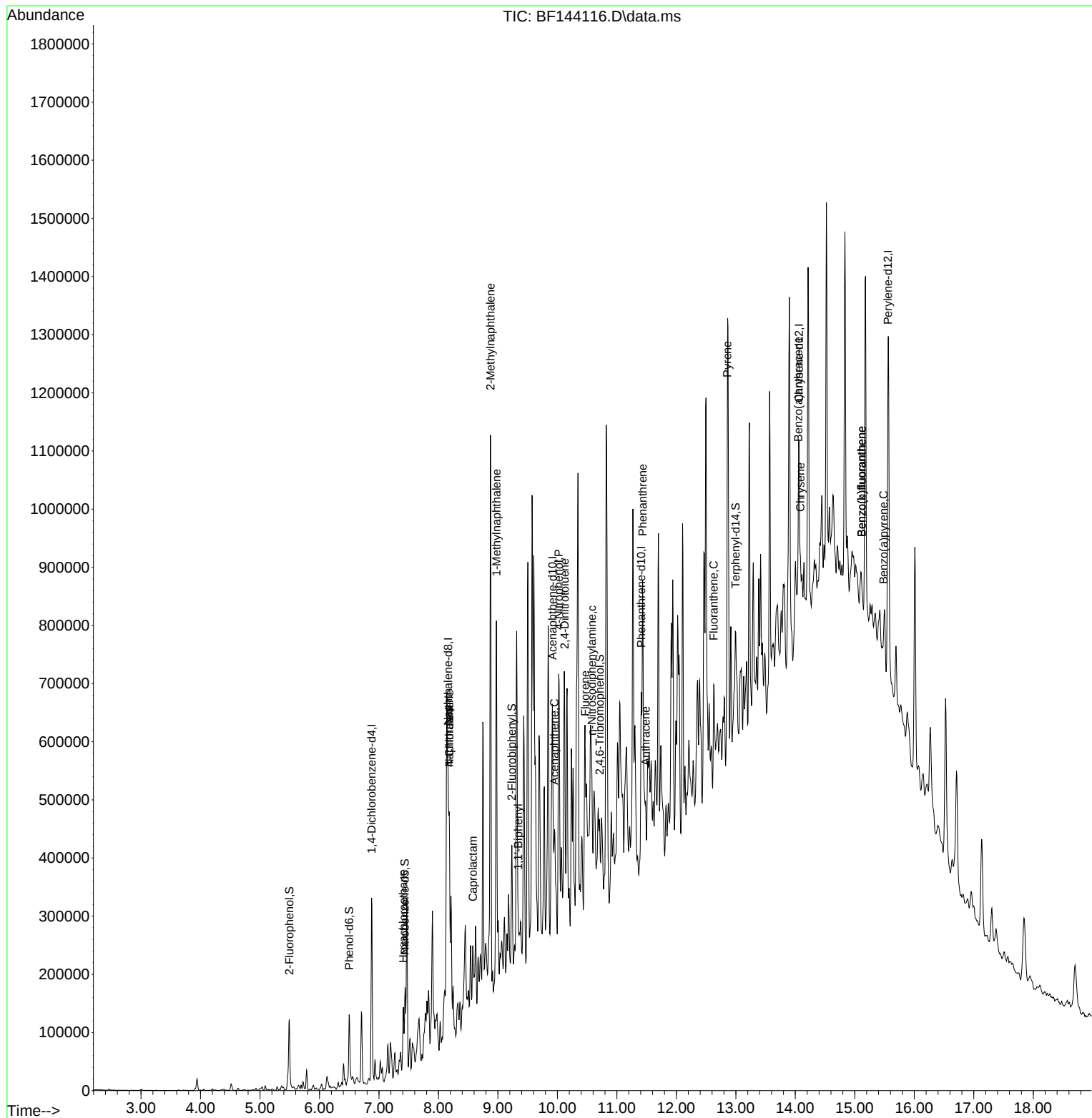
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	65328	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	225857	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	115098	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	155224	20.000	ng	0.00
76) Chrysene-d12	14.062	240	152005	20.000	ng	0.00
86) Perylene-d12	15.556	264	156185	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	54013	13.081	ng	0.00
7) Phenol-d6	6.498	99	65866	14.444	ng	0.00
23) Nitrobenzene-d5	7.433	82	40656	9.862	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	12939	8.825	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	90322	11.043	ng	0.00
79) Terphenyl-d14	12.998	244	71721	8.249	ng	0.00
Target Compounds						
					Qvalue	
18) Hexachloroethane	7.410	117	6248	3.535	ng	# 1
31) Naphthalene	8.180	128	159126	14.928	ng	98
33) 4-Chloroaniline	8.180	127	22095	5.954	ng	# 39
35) Caprolactam	8.580	113	2795	3.109	ng	# 1
37) 2-Methylnaphthalene	8.875	142	364052	51.799	ng	95
38) 1-Methylnaphthalene	8.975	142	226028	33.946	ng	97
46) 1,1'-Biphenyl	9.339	154	33235	4.034	ng	98
52) Acenaphthene	9.951	154	17045	2.742	ng	# 67
56) 4-Nitrophenol	10.022	139	14074	12.534	ng	# 42
57) 2,4-Dinitrotoluene	10.122	165	5815	2.889	ng	# 48
58) Fluorene	10.469	166	45613	6.937	ng	# 84
66) n-Nitrosodiphenylamine	10.580	169	76548	15.435	ng	# 54
71) Phenanthrene	11.433	178	263850	34.218	ng	97
72) Anthracene	11.486	178	37953	4.765	ng	# 84
75) Fluoranthene	12.627	202	34984	4.107	ng	68
78) Pyrene	12.857	202	227620	20.829	ng	# 95
81) Benzo(a)anthracene	14.051	228	46818	4.558	ng	# 23
83) Chrysene	14.086	228	69551	7.215	ng	# 46
88) Benzo(b)fluoranthene	15.115	252	19197	2.174	ng	# 32
89) Benzo(k)fluoranthene	15.115	252	19197	2.356	ng	# 32
90) Benzo(a)pyrene	15.486	252	28401	3.585	ng	# 56

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

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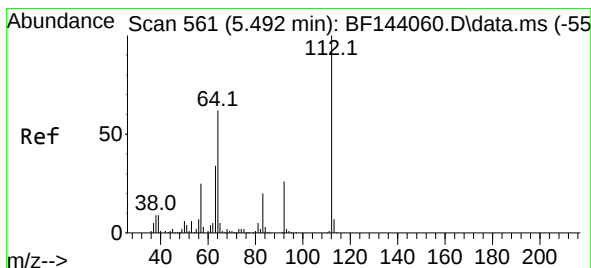
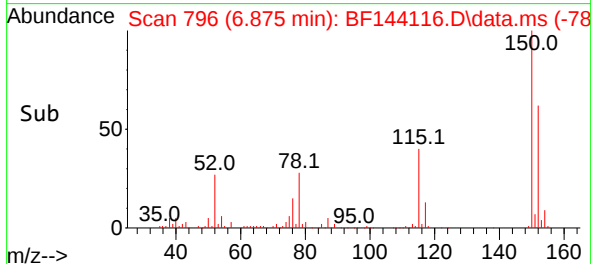
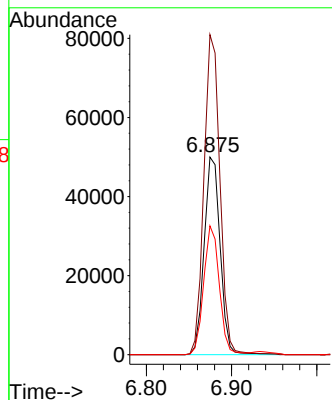
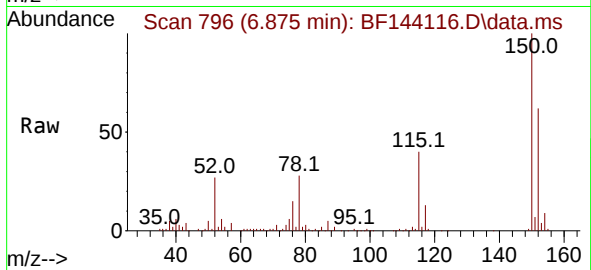




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.875 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

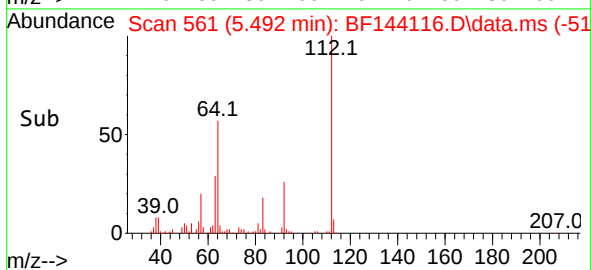
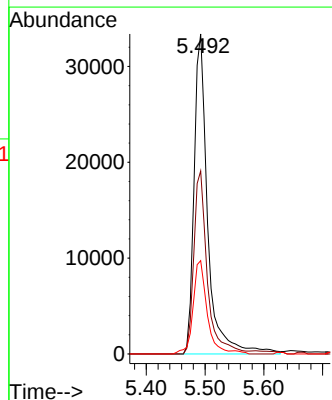
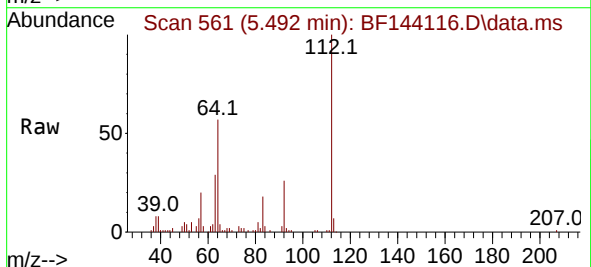
Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01DL

Tgt Ion:152 Resp: 65328
 Ion Ratio Lower Upper
 152 100
 150 161.9 124.4 186.6
 115 65.2 49.4 74.0



#5
 2-Fluorophenol
 Concen: 13.081 ng
 RT: 5.492 min Scan# 561
 Delta R.T. -0.000 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

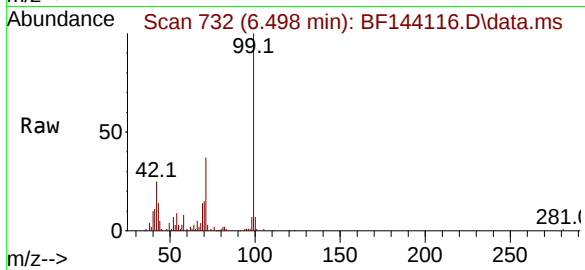
Tgt Ion:112 Resp: 54013
 Ion Ratio Lower Upper
 112 100
 64 57.2 49.8 74.8
 63 29.1 27.4 41.2





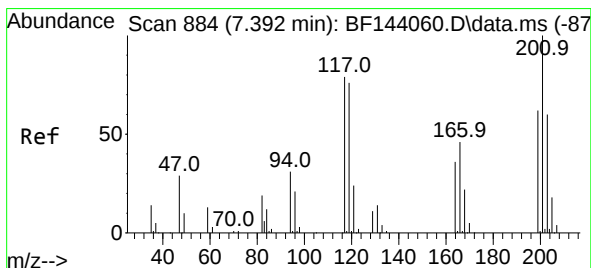
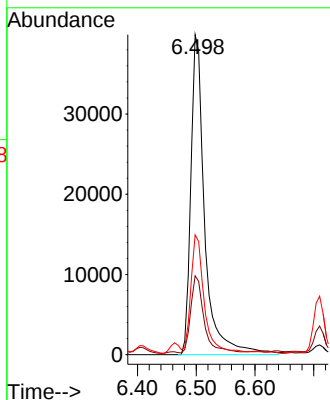
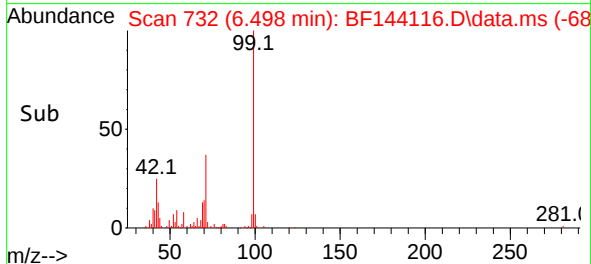
#7
Phenol-d6
Concen: 14.444 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

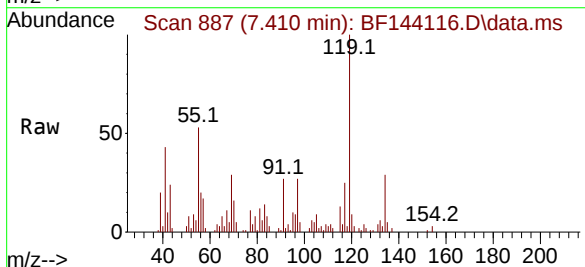


Tgt Ion: 99 Resp: 65866

Ion	Ratio	Lower	Upper
99	100		
42	24.7	23.9	35.9
71	37.5	34.4	51.6

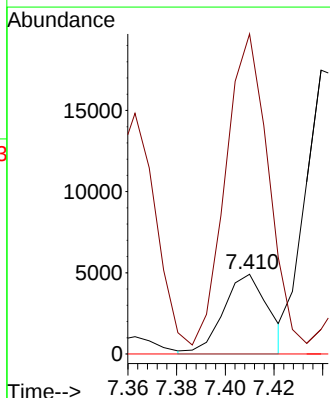
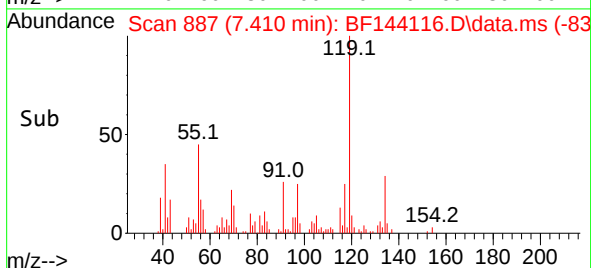


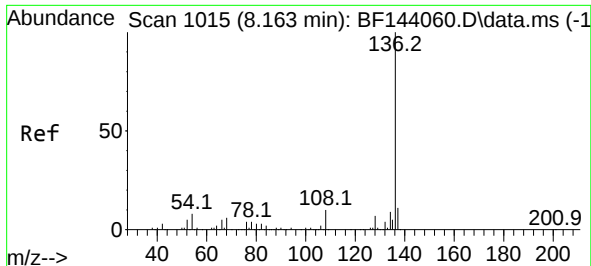
#18
Hexachloroethane
Concen: 3.535 ng
RT: 7.410 min Scan# 887
Delta R.T. 0.018 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40



Tgt Ion: 117 Resp: 6248

Ion	Ratio	Lower	Upper
117	100		
119	401.6	76.6	115.0#
201	0.0	100.9	151.3#



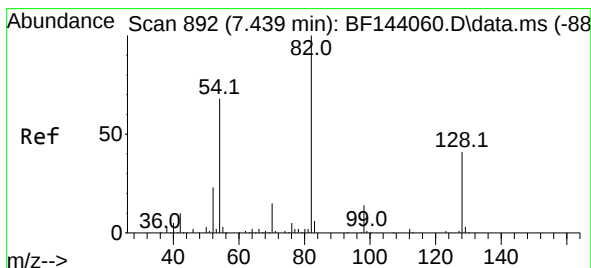
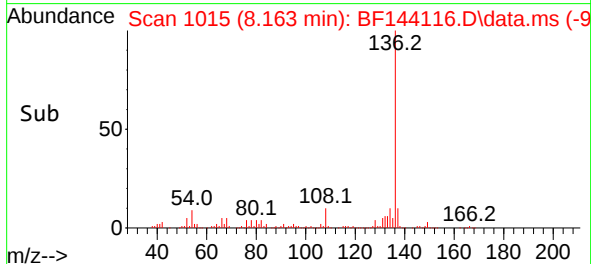
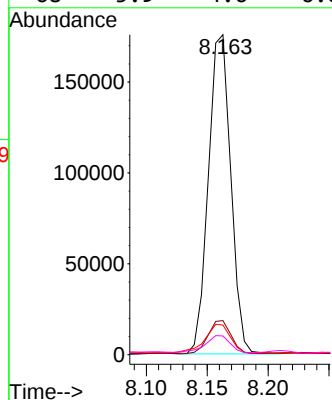
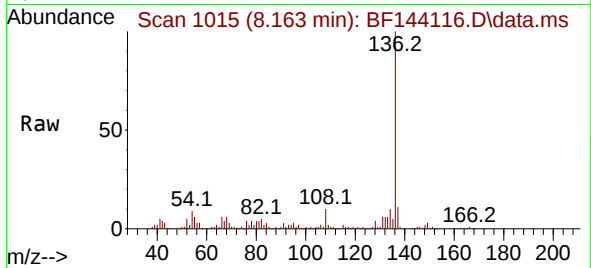


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

Tgt Ion:136 Resp: 225857

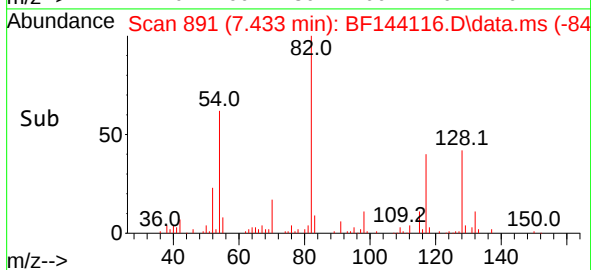
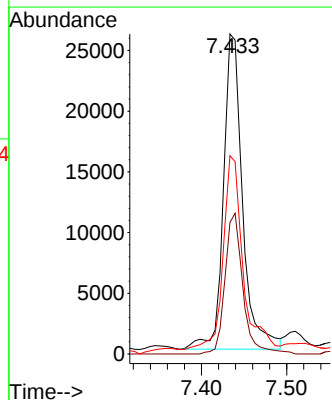
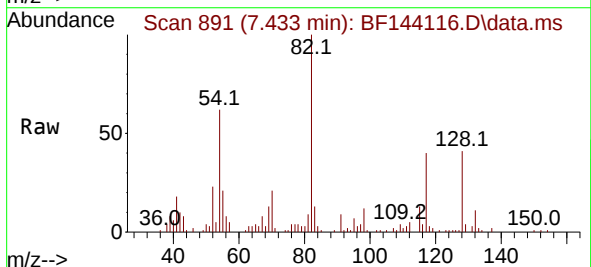
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.3	6.6	9.8
68	5.9	4.6	6.8

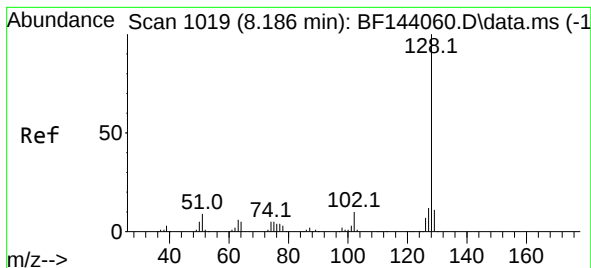


#23
Nitrobenzene-d5
Concen: 9.862 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion: 82 Resp: 40656

Ion	Ratio	Lower	Upper
82	100		
128	41.1	32.4	48.6
54	61.9	54.0	81.0





#31

Naphthalene

Concen: 14.928 ng

RT: 8.180 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL

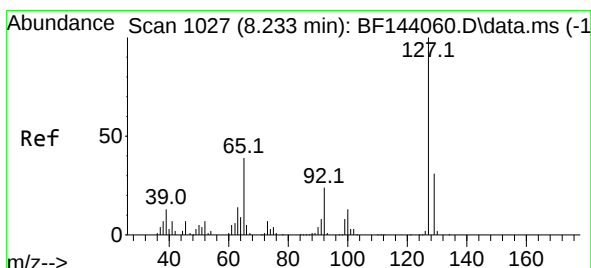
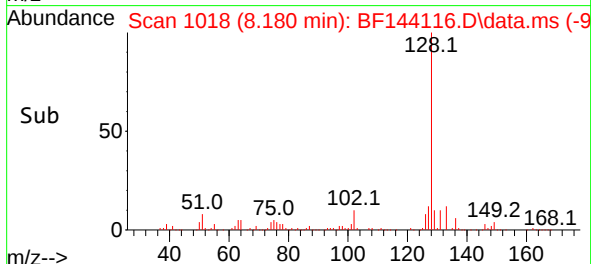
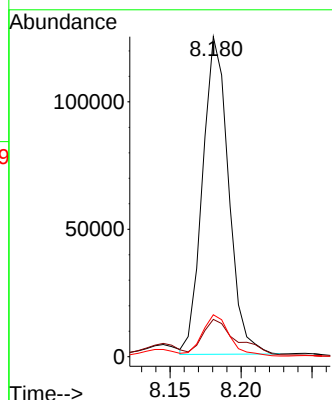
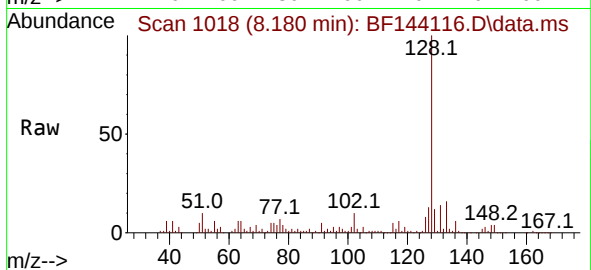
Tgt Ion:128 Resp: 159126

Ion Ratio Lower Upper

128 100

129 11.7 8.4 12.6

127 13.1 9.9 14.9



#33

4-Chloroaniline

Concen: 5.954 ng

RT: 8.180 min Scan# 1018

Delta R.T. -0.053 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Tgt Ion:127 Resp: 22095

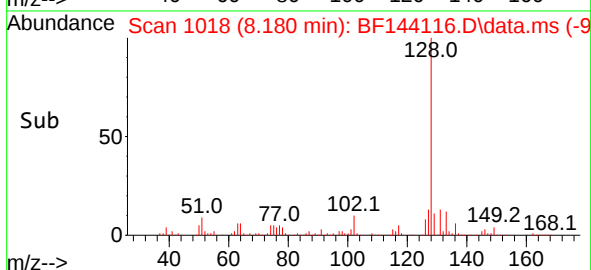
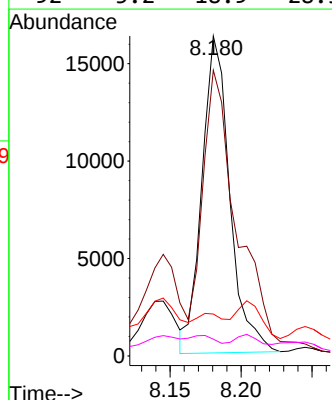
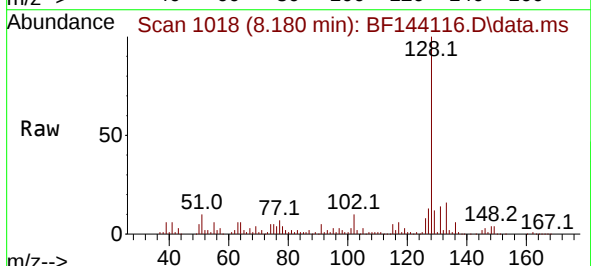
Ion Ratio Lower Upper

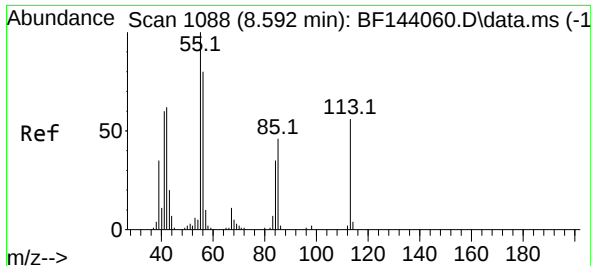
127 100

129 89.3 25.6 38.4#

65 13.1 30.9 46.3#

92 5.2 18.9 28.3#

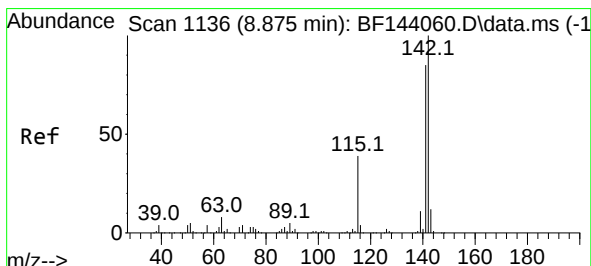
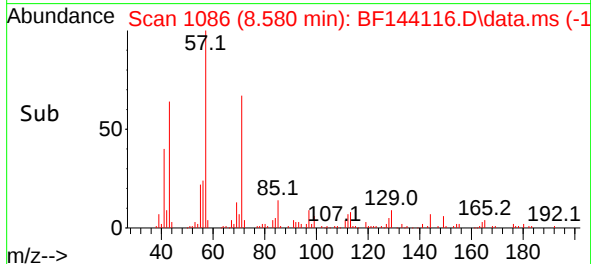
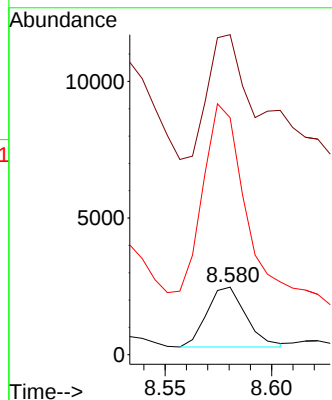
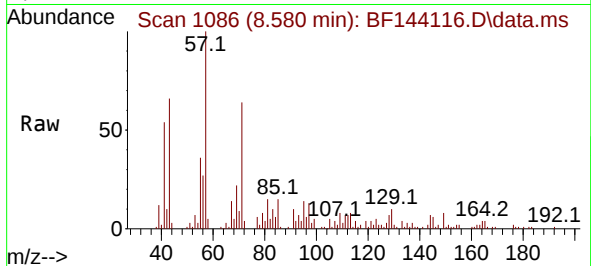




#35
 Caprolactam
 Concen: 3.109 ng
 RT: 8.580 min Scan# 1086
 Delta R.T. -0.012 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

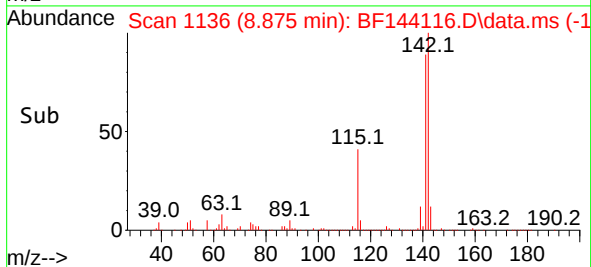
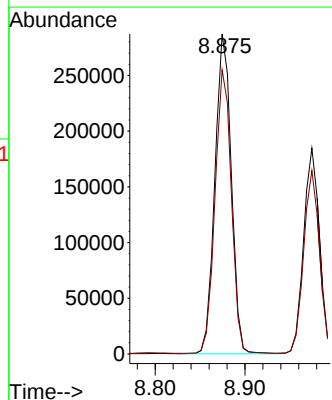
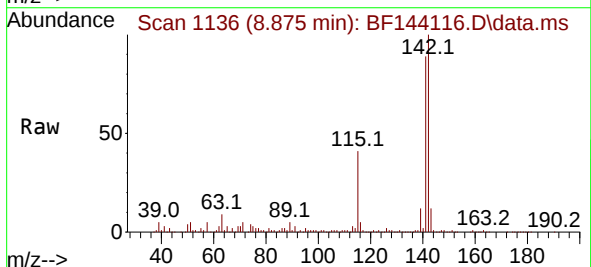
Instrument :
 BNA_F
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 P001-TW1-251023-01DL

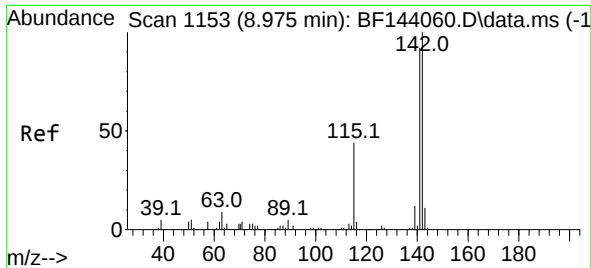
Tgt Ion:113 Resp: 2795
 Ion Ratio Lower Upper
 113 100
 55 474.3 160.1 200.1#
 56 351.2 124.9 164.9#



#37
 2-Methylnaphthalene
 Concen: 51.799 ng
 RT: 8.875 min Scan# 1136
 Delta R.T. -0.000 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

Tgt Ion:142 Resp: 364052
 Ion Ratio Lower Upper
 142 100
 141 88.8 67.6 101.4

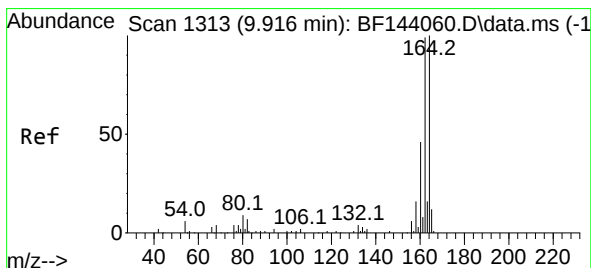
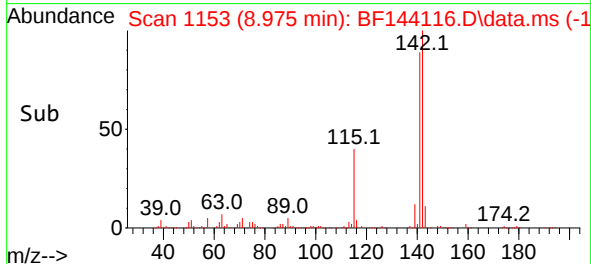
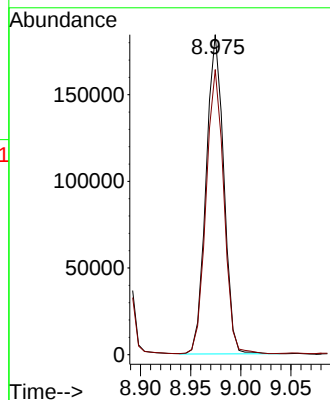
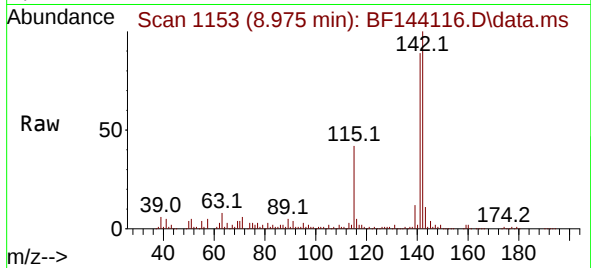




#38
1-Methylnaphthalene
Concen: 33.946 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

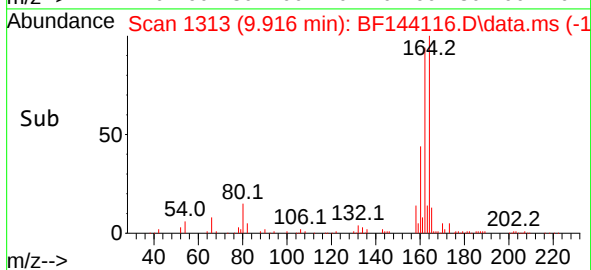
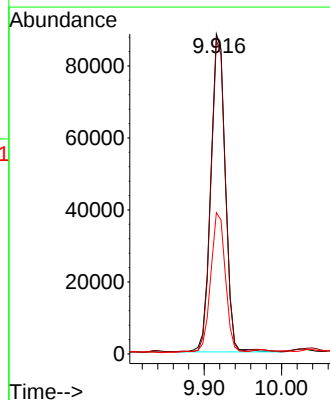
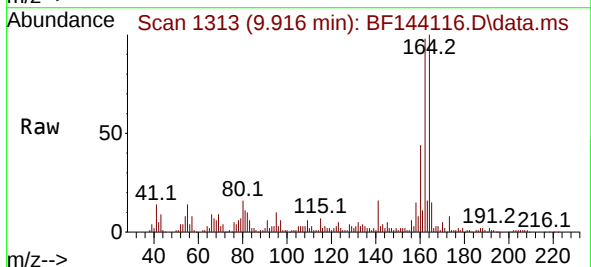
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BNA_F
ClientSampleId :
P001-TW1-251023-01DL

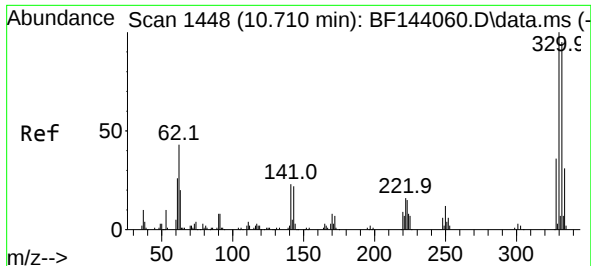
Tgt Ion:142 Resp: 226028
Ion Ratio Lower Upper
142 100
141 89.1 73.4 110.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:164 Resp: 115098
Ion Ratio Lower Upper
164 100
162 98.1 79.4 119.2
160 44.2 36.7 55.1

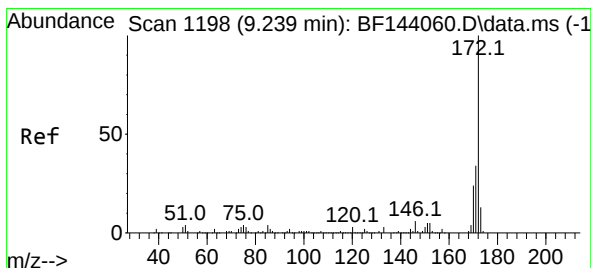
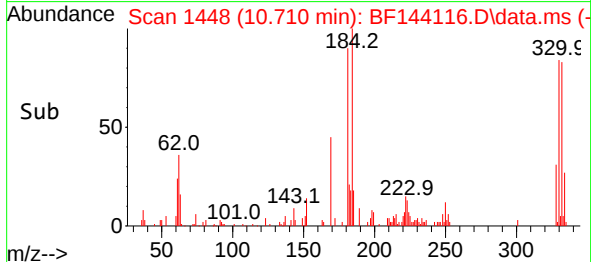
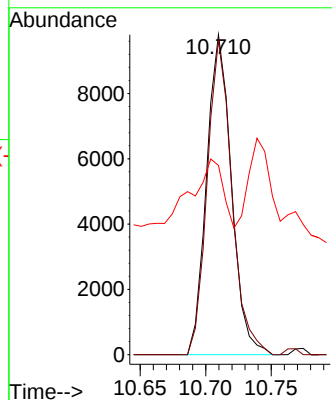
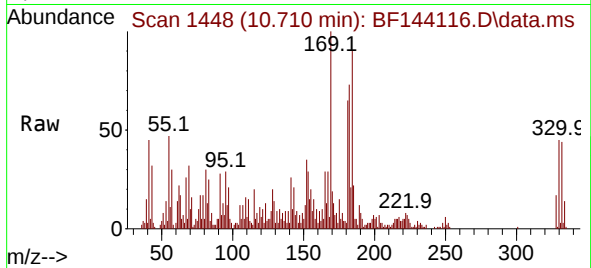




#42
2,4,6-Tribromophenol
Concen: 8.825 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

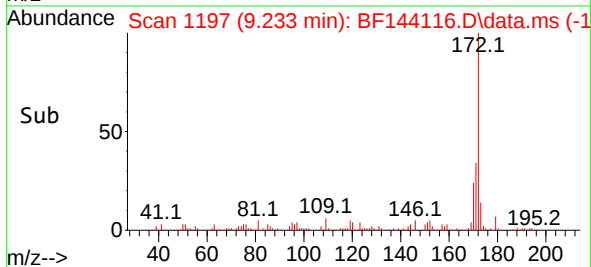
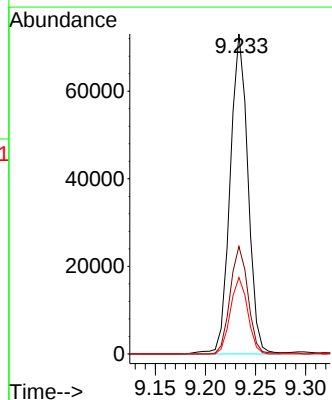
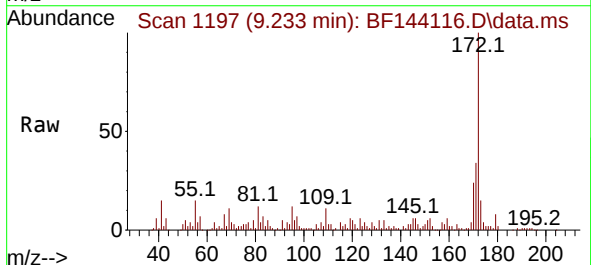
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

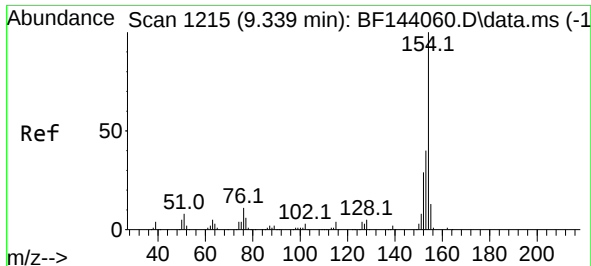
Tgt Ion: 330 Resp: 12939
Ion Ratio Lower Upper
330 100
332 97.2 77.0 115.6
141 26.5 19.4 29.0



#45
2-Fluorobiphenyl
Concen: 11.043 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion: 172 Resp: 90322
Ion Ratio Lower Upper
172 100
171 33.6 27.5 41.3
170 23.9 19.0 28.6

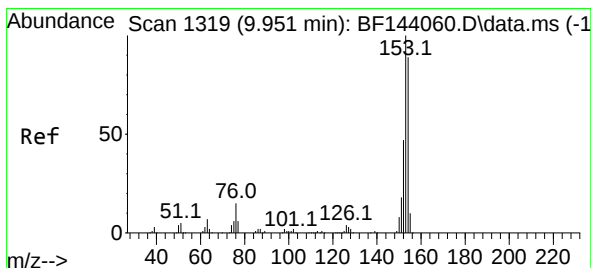
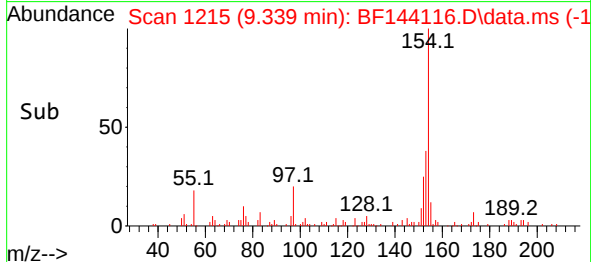
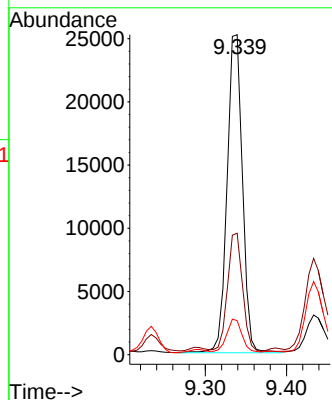
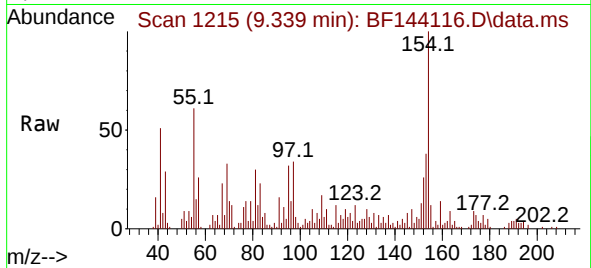




#46
1,1'-Biphenyl
Concen: 4.034 ng
RT: 9.339 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

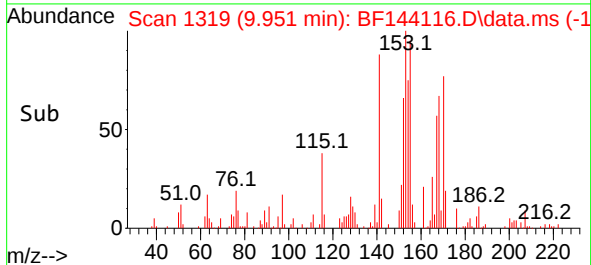
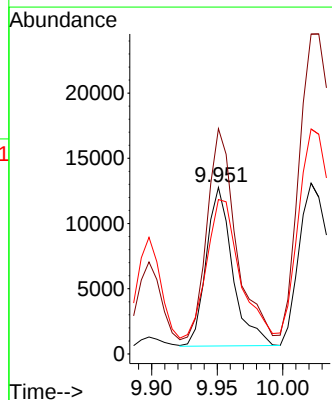
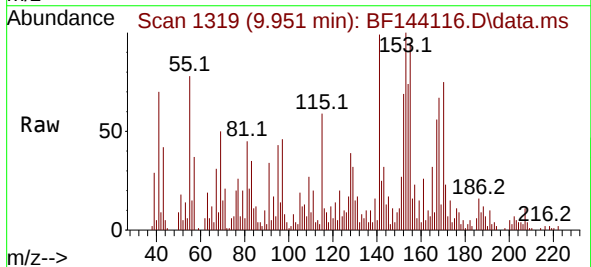
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

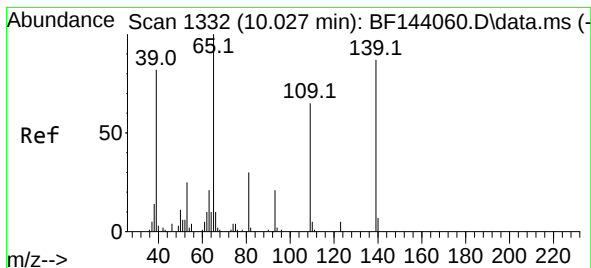
Tgt Ion:154 Resp: 33235
Ion Ratio Lower Upper
154 100
153 38.0 19.7 59.7
76 10.6 0.0 31.1



#52
Acenaphthene
Concen: 2.742 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:154 Resp: 17045
Ion Ratio Lower Upper
154 100
153 135.2 89.9 134.9#
152 92.7 42.0 63.0#

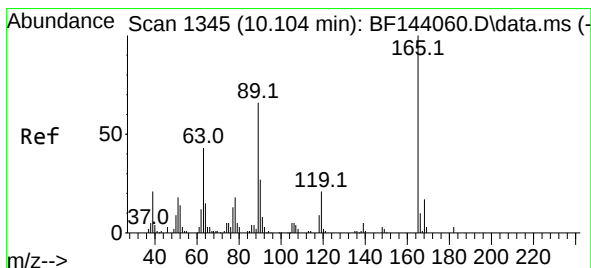
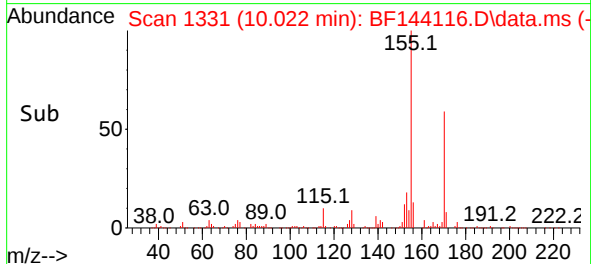
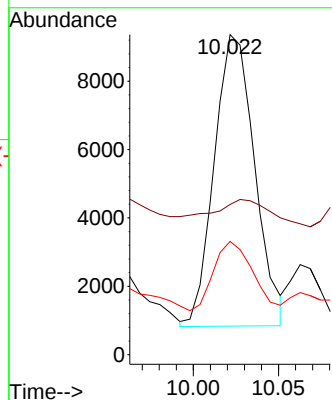
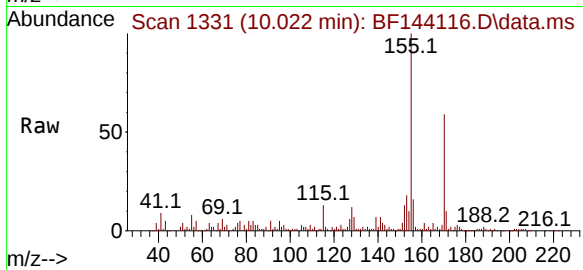




#56
4-Nitrophenol
Concen: 12.534 ng
RT: 10.022 min Scan# 1332
Delta R.T. -0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

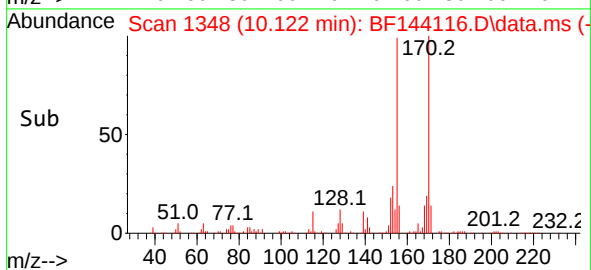
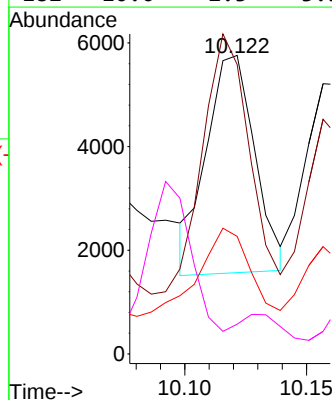
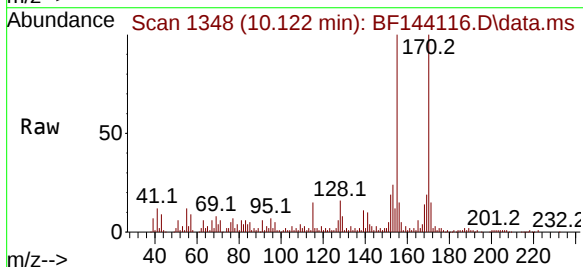
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

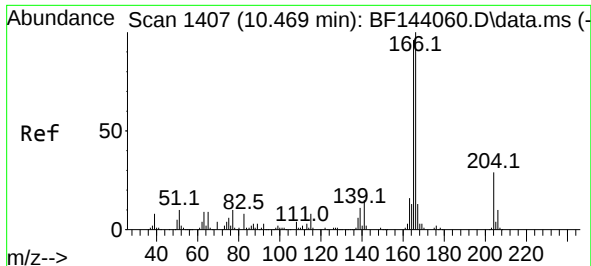
Tgt Ion:139 Resp: 14074
Ion Ratio Lower Upper
139 100
109 46.9 53.8 93.8#
65 35.4 95.9 135.9#



#57
2,4-Dinitrotoluene
Concen: 2.889 ng
RT: 10.122 min Scan# 1348
Delta R.T. 0.018 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:165 Resp: 5815
Ion Ratio Lower Upper
165 100
63 96.9 35.4 53.2#
89 39.4 52.7 79.1#
182 10.0 2.3 3.5#

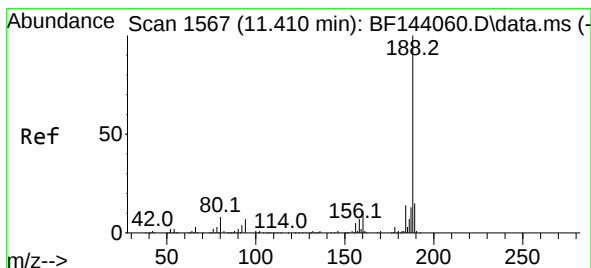
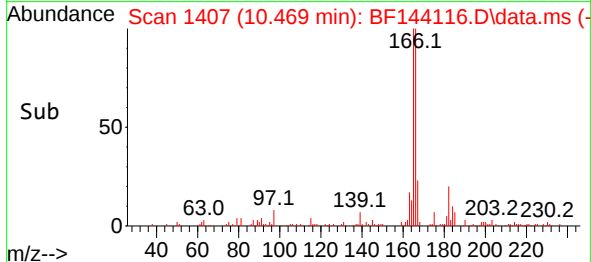
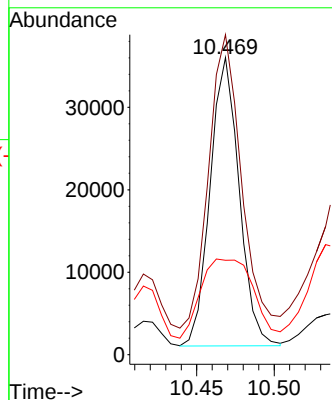
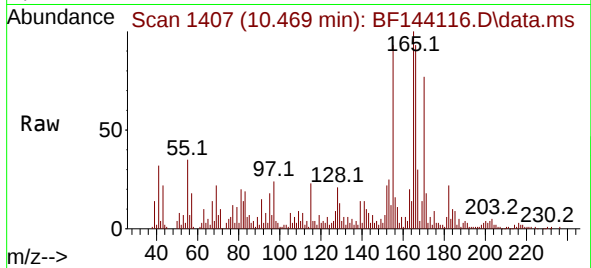




#58
Fluorene
Concen: 6.937 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

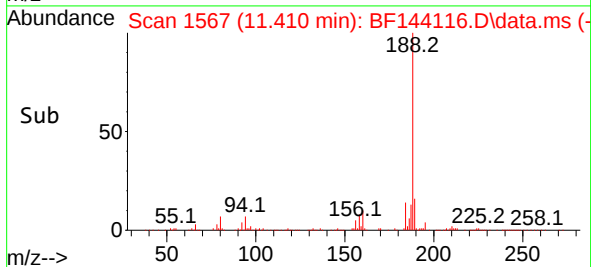
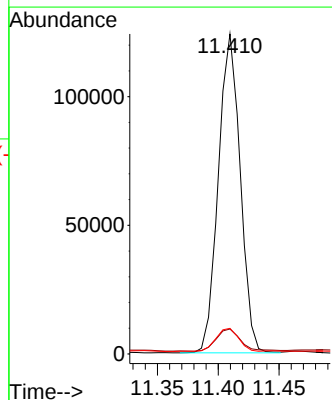
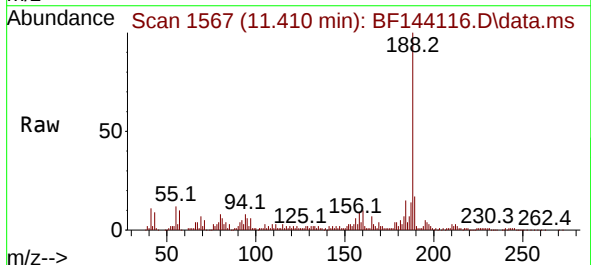
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

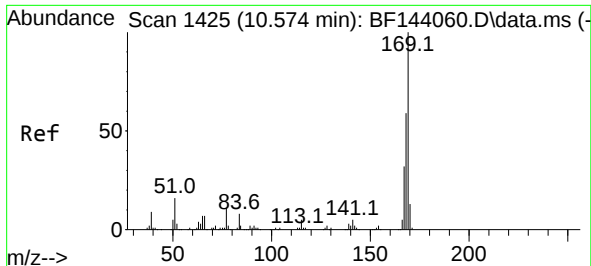
Tgt Ion:166 Resp: 45613
Ion Ratio Lower Upper
166 100
165 107.7 77.0 115.4
167 31.8 10.2 15.4#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:188 Resp: 155224
Ion Ratio Lower Upper
188 100
94 7.8 5.4 8.0
80 8.0 6.0 9.0

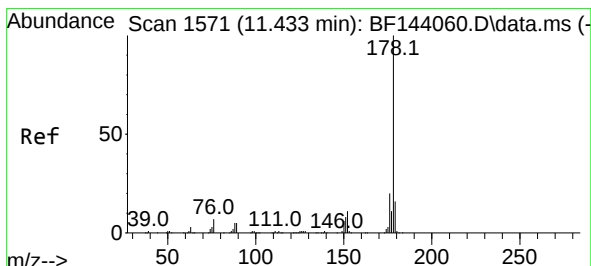
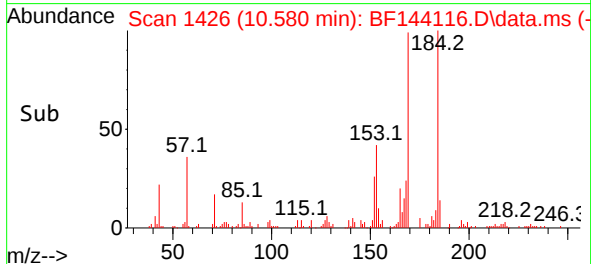
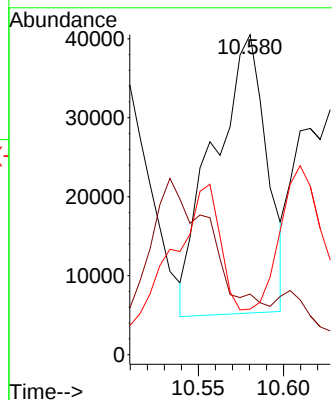
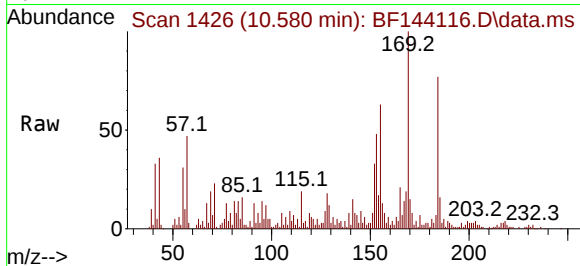




#66
n-Nitrosodiphenylamine
Concen: 15.435 ng
RT: 10.580 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

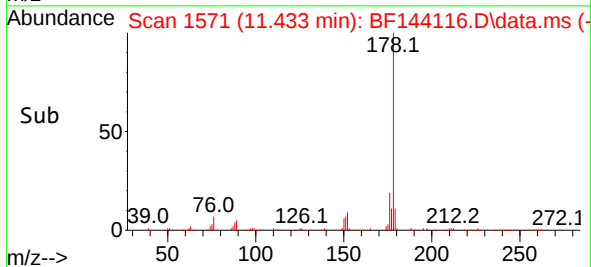
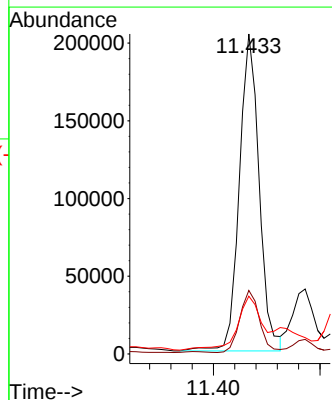
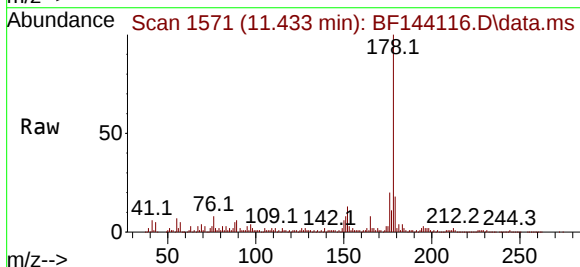
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01DL

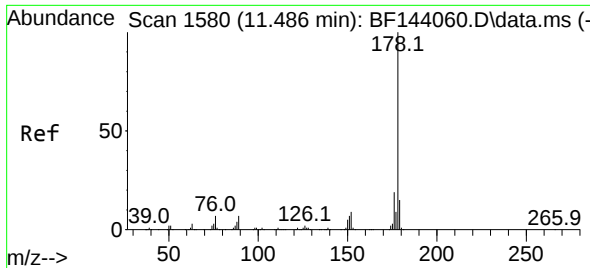
Tgt Ion:169 Resp: 76548
Ion Ratio Lower Upper
169 100
168 18.9 47.4 71.2#
167 14.3 25.5 38.3#



#71
Phenanthrene
Concen: 34.218 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.000 min
Lab File: BF144116.D
Acq: 28 Oct 2025 22:40

Tgt Ion:178 Resp: 263850
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 18.0 12.6 18.8

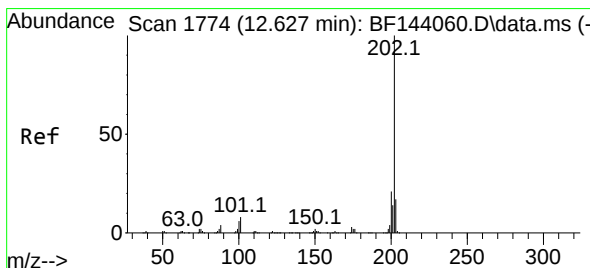
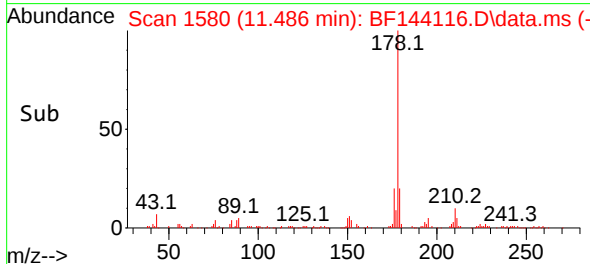
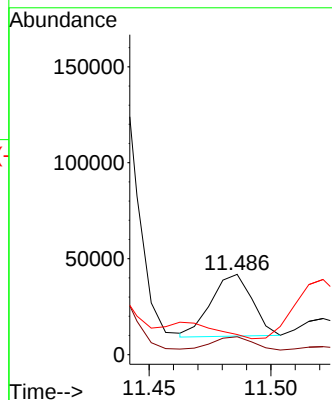
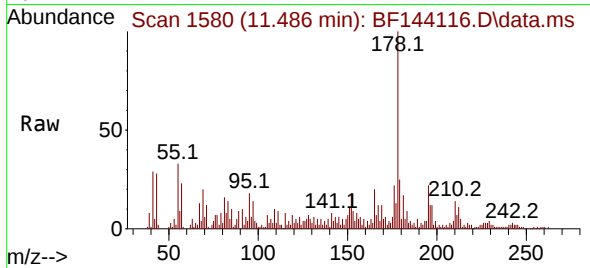




#72
 Anthracene
 Concen: 4.765 ng
 RT: 11.486 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

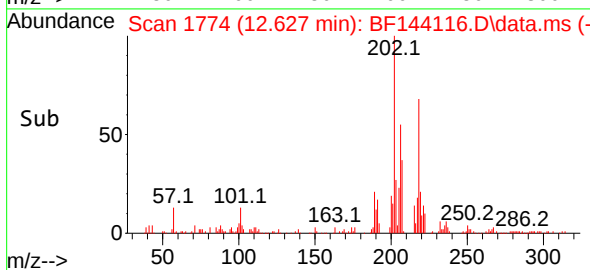
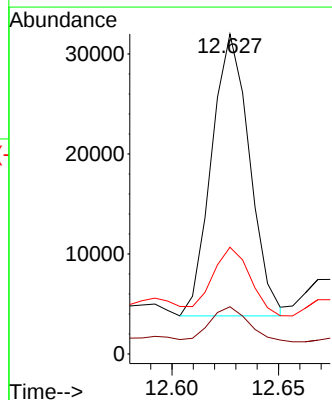
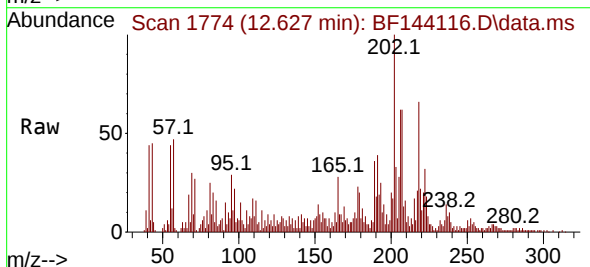
Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01DL

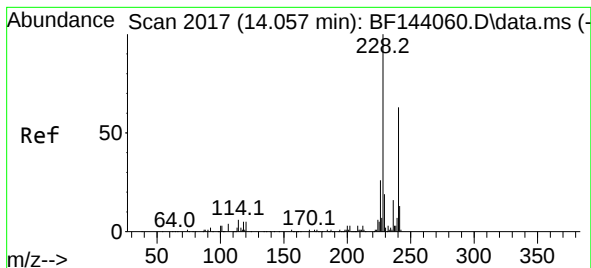
Tgt Ion:178 Resp: 37953
 Ion Ratio Lower Upper
 178 100
 176 22.3 15.0 22.4
 179 25.0 11.8 17.6#



#75
 Fluoranthene
 Concen: 4.107 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.000 min
 Lab File: BF144116.D
 Acq: 28 Oct 2025 22:40

Tgt Ion:202 Resp: 34984
 Ion Ratio Lower Upper
 202 100
 101 14.7 0.0 27.7
 203 33.4 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.062 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL

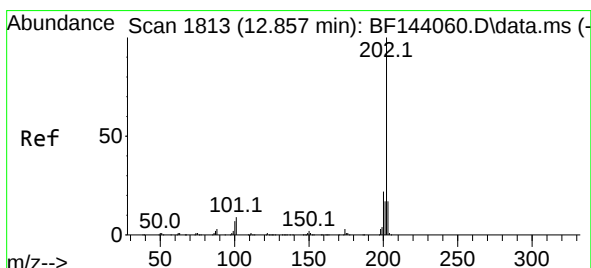
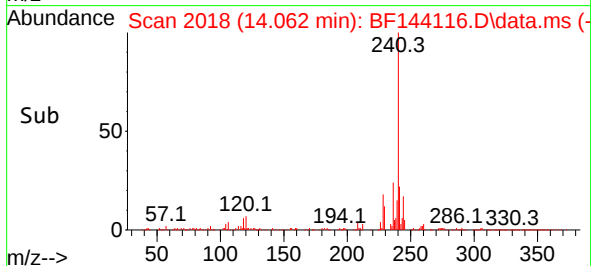
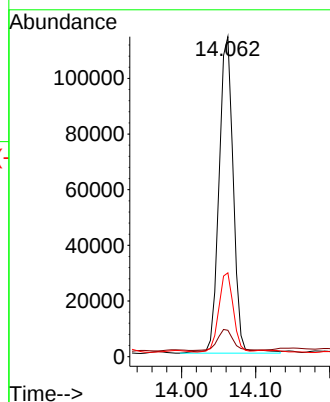
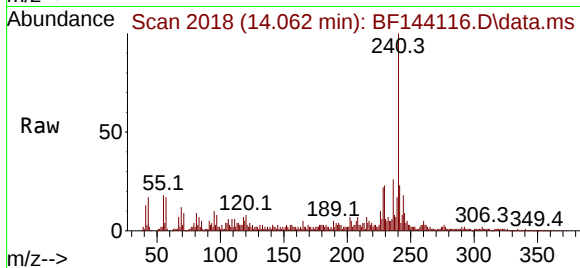
Tgt Ion:240 Resp: 152005

Ion Ratio Lower Upper

240 100

120 8.3 6.5 9.7

236 26.2 20.1 30.1



#78

Pyrene

Concen: 20.829 ng

RT: 12.857 min Scan# 1813

Delta R.T. -0.000 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

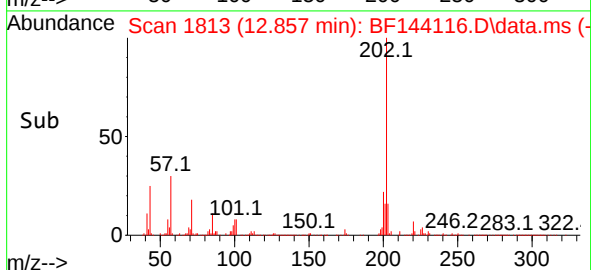
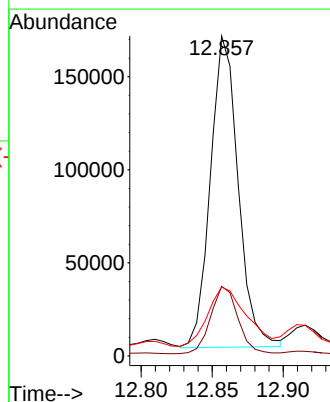
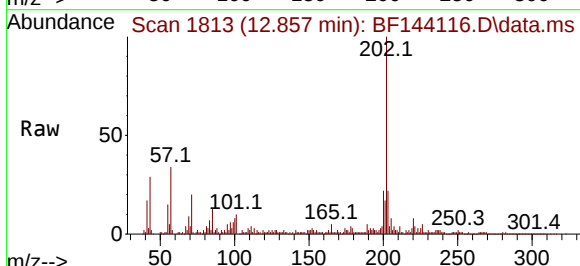
Tgt Ion:202 Resp: 227620

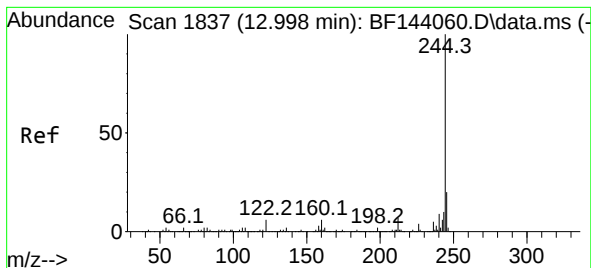
Ion Ratio Lower Upper

202 100

200 21.8 17.2 25.8

203 21.5 13.5 20.3#





#79

Terphenyl-d14

Concen: 8.249 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.000 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL

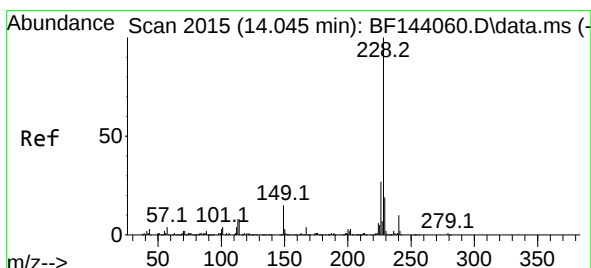
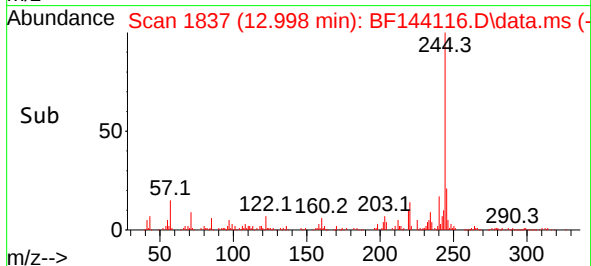
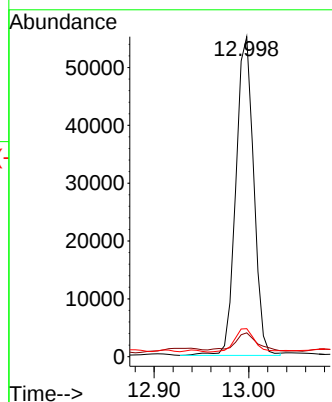
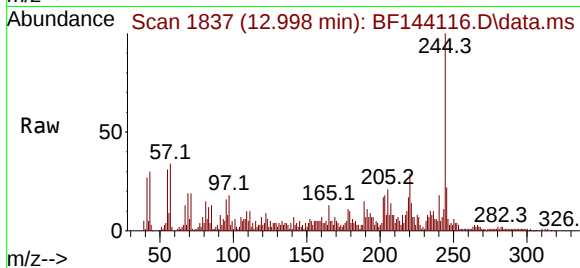
Tgt Ion:244 Resp: 71721

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.6

122 8.8 4.9 7.3#



#81

Benzo(a)anthracene

Concen: 4.558 ng

RT: 14.051 min Scan# 2016

Delta R.T. 0.006 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

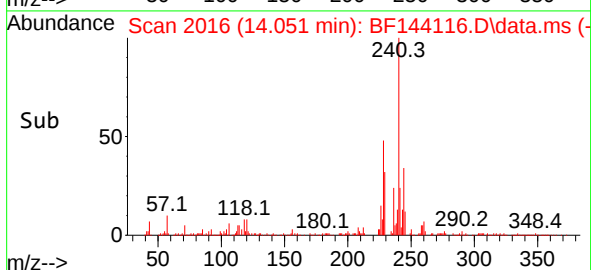
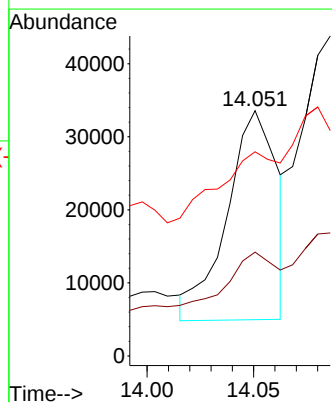
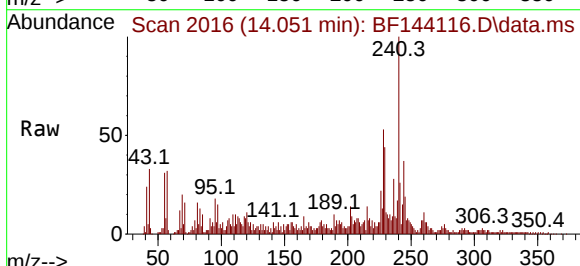
Tgt Ion:228 Resp: 46818

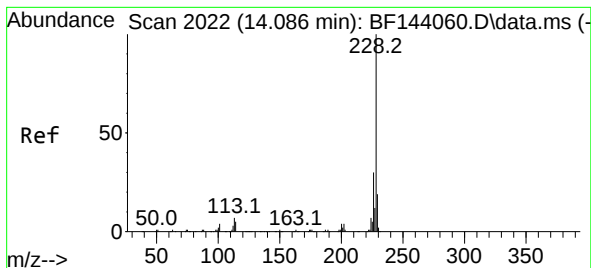
Ion Ratio Lower Upper

228 100

226 42.3 21.4 32.2#

229 83.2 15.3 22.9#





#83

Chrysene

Concen: 7.215 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL

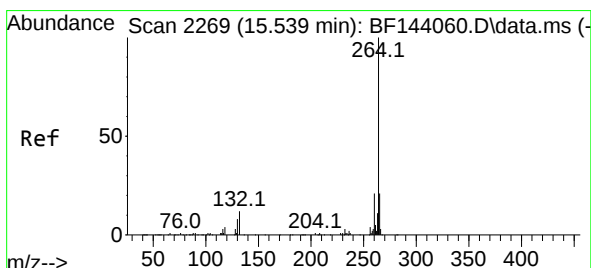
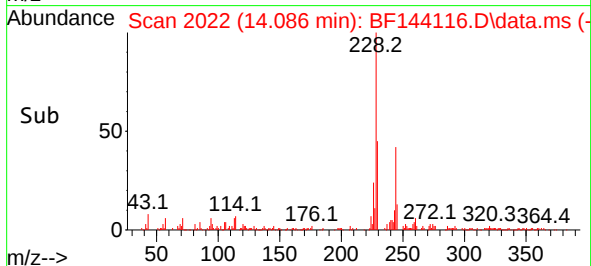
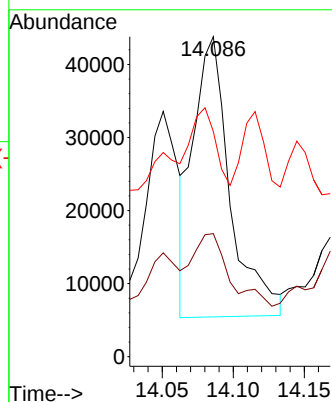
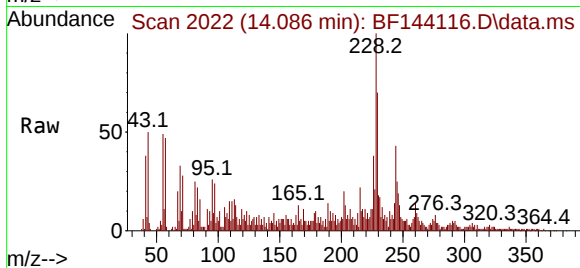
Tgt Ion:228 Resp: 69551

Ion Ratio Lower Upper

228 100

226 38.4 23.8 35.6#

229 70.4 15.6 23.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.556 min Scan# 2272

Delta R.T. 0.018 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

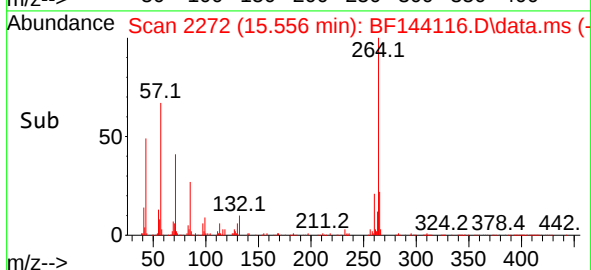
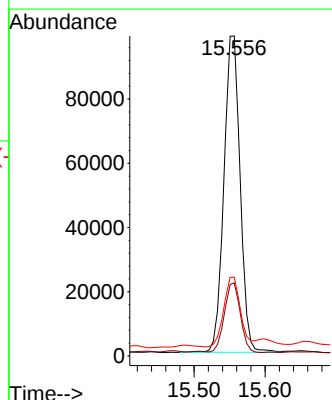
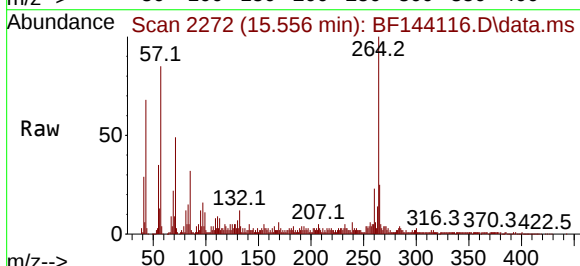
Tgt Ion:264 Resp: 156185

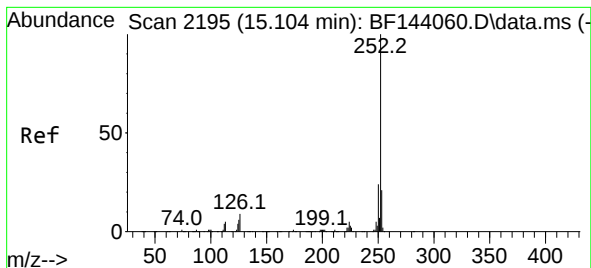
Ion Ratio Lower Upper

264 100

260 22.9 17.0 25.4

265 24.6 16.6 24.8





#88

Benzo(b)fluoranthene

Concen: 2.174 ng

RT: 15.115 min Scan# 2197

Delta R.T. 0.012 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL

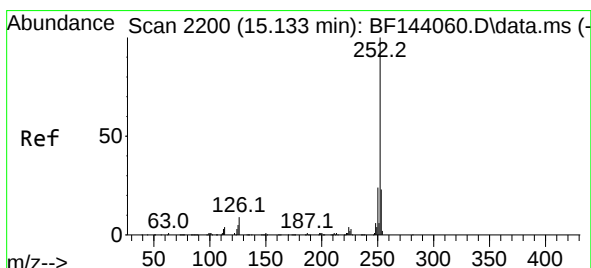
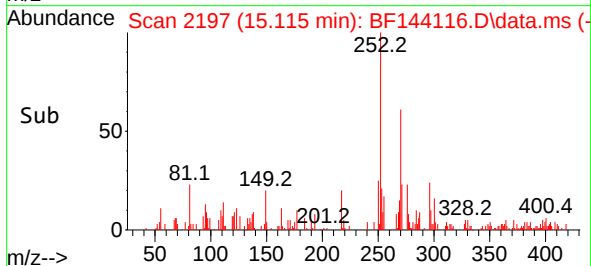
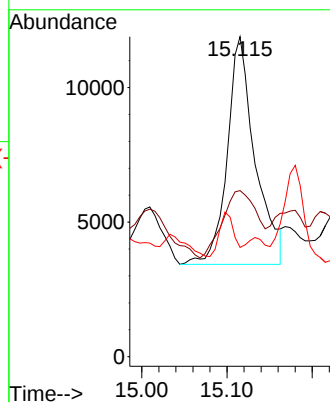
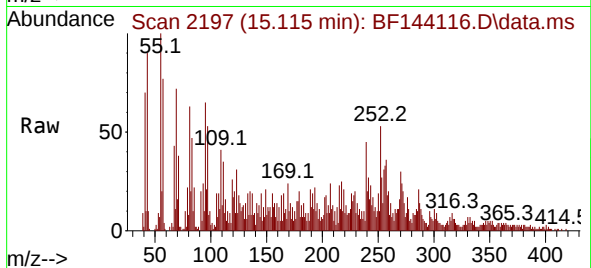
Tgt Ion:252 Resp: 19197

Ion Ratio Lower Upper

252 100

253 51.9 17.2 25.8#

125 34.1 5.0 7.6#



#89

Benzo(k)fluoranthene

Concen: 2.356 ng

RT: 15.115 min Scan# 2197

Delta R.T. -0.018 min

Lab File: BF144116.D

Acq: 28 Oct 2025 22:40

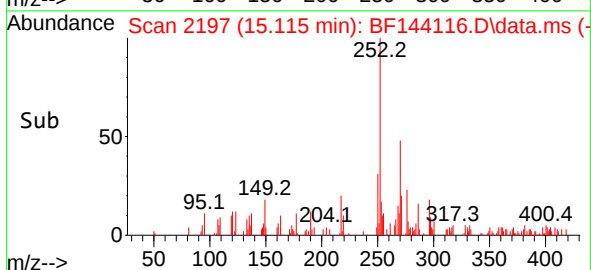
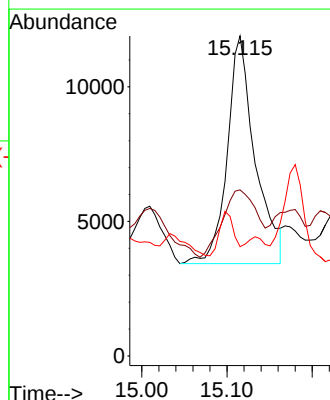
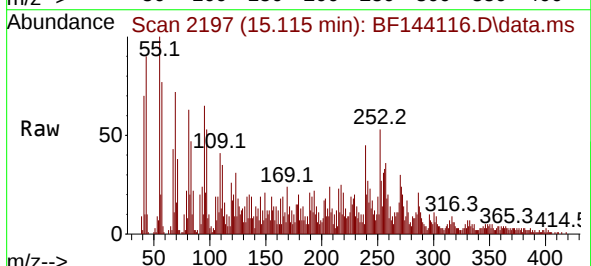
Tgt Ion:252 Resp: 19197

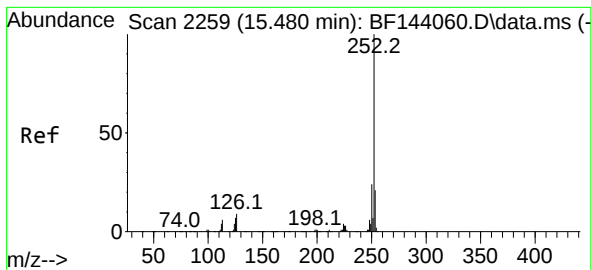
Ion Ratio Lower Upper

252 100

253 51.9 17.4 26.2#

125 34.1 4.9 7.3#





#90

Benzo(a)pyrene

Concen: 3.585 ng

RT: 15.486 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF144116.D

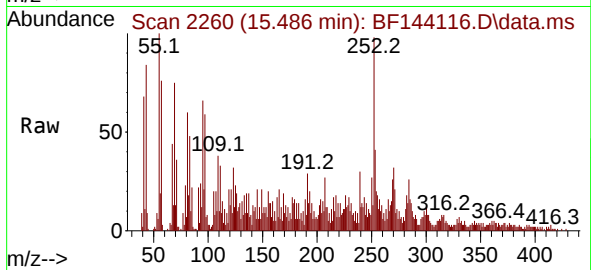
Acq: 28 Oct 2025 22:40

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01DL



Tgt Ion:252 Resp: 28401

Ion Ratio Lower Upper

252 100

253 41.7 17.1 25.7#

125 23.3 5.4 8.2#

