

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112525\
 Data File : BF144355.D
 Acq On : 25 Nov 2025 17:44
 Operator : RC/JU
 Sample : Q3710-01 DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMPDL

Quant Time: Nov 25 18:05:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

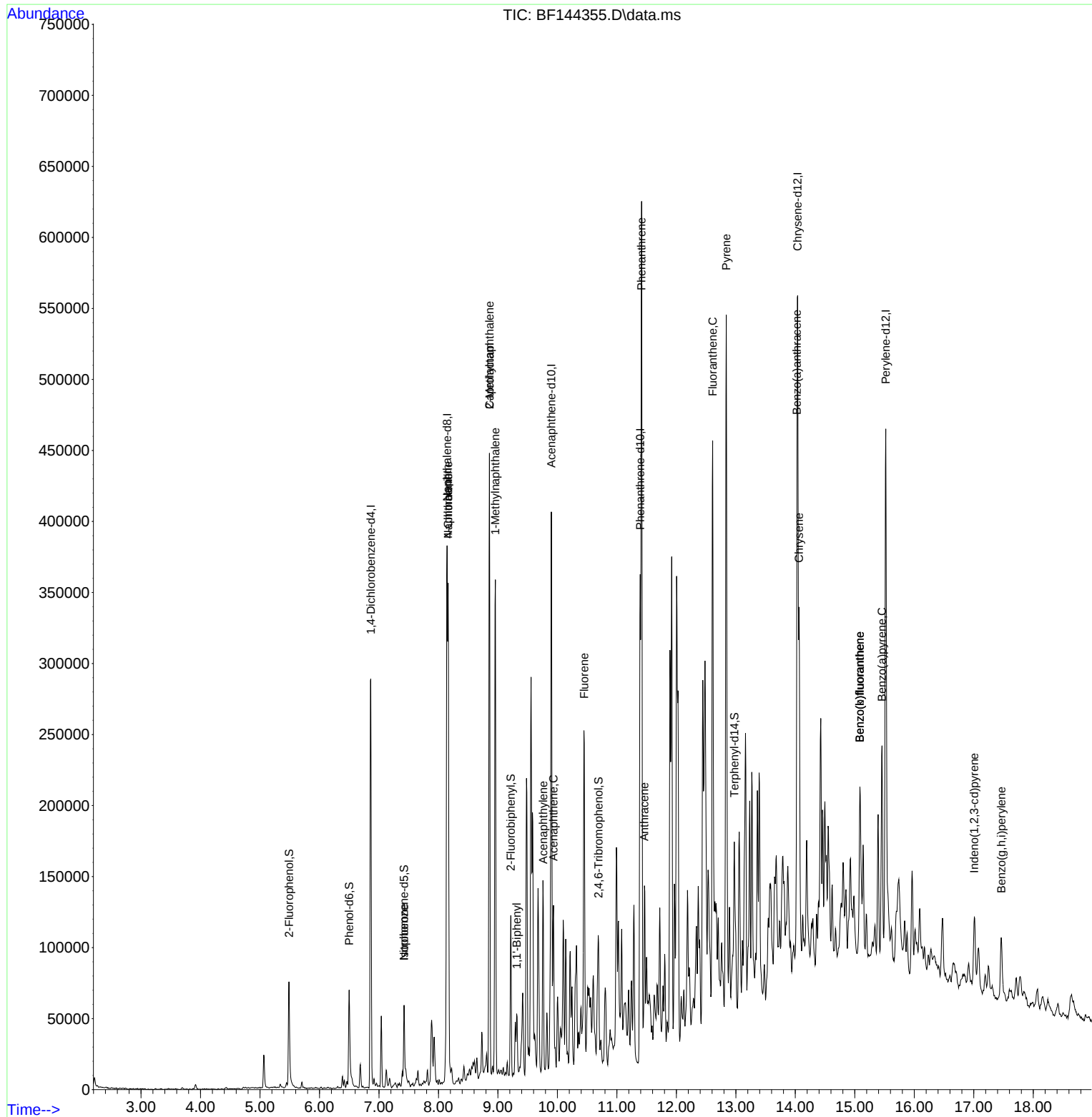
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	64672	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	240359	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	119030	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	181521	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	167558	20.000	ng	-0.01
86) Perylene-d12	15.521	264	217919	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	39415	9.537	ng	0.00
7) Phenol-d6	6.498	99	43235	9.233	ng	0.00
23) Nitrobenzene-d5	7.422	82	23973	5.760	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	9879	6.614	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	51423	6.381	ng	-0.01
79) Terphenyl-d14	12.974	244	43071	4.083	ng	-0.02
Target Compounds						Qvalue
25) Isophorone	7.422	82	23973	3.045	ng	# 66
31) Naphthalene	8.163	128	206682	18.077	ng	98
33) 4-Chloroaniline	8.163	127	24972	5.988	ng	# 28
35) Caprolactam	8.857	113	3754	3.546	ng	# 1
37) 2-Methylnaphthalene	8.857	142	168611	22.057	ng	100
38) 1-Methylnaphthalene	8.957	142	134160	18.189	ng	99
46) 1,1'-Biphenyl	9.316	154	18936	2.279	ng	98
49) Acenaphthylene	9.763	152	40013	4.143	ng	# 94
52) Acenaphthene	9.933	154	29231	4.526	ng	95
58) Fluorene	10.451	166	92702	13.479	ng	# 97
71) Phenanthrene	11.416	178	332055	36.741	ng	99
72) Anthracene	11.463	178	66399	7.225	ng	98
75) Fluoranthene	12.610	202	167737	17.967	ng	96
78) Pyrene	12.839	202	293289	21.709	ng	97
81) Benzo(a)anthracene	14.027	228	134599	11.590	ng	# 91
83) Chrysene	14.063	228	135821	12.669	ng	# 92
87) Indeno(1,2,3-cd)pyrene	17.009	276	39143	2.502	ng	97
88) Benzo(b)fluoranthene	15.086	252	112653	9.093	ng	# 94
89) Benzo(k)fluoranthene	15.086	252	112160	9.672	ng	# 95
90) Benzo(a)pyrene	15.457	252	94904	8.303	ng	# 94
92) Benzo(g,h,i)perylene	17.462	276	41965	3.383	ng	# 93

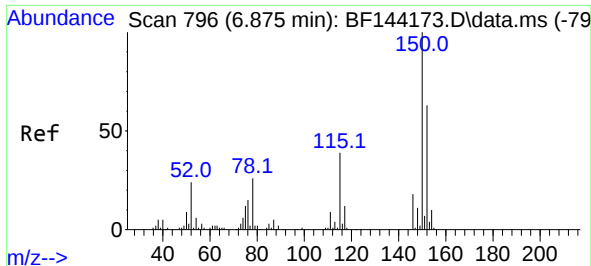
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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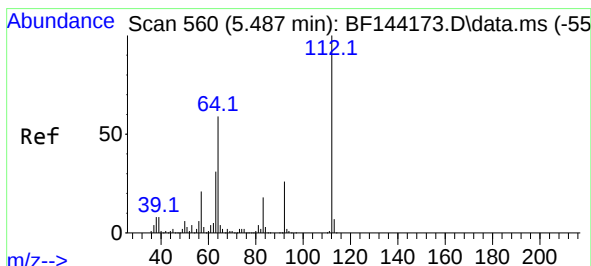
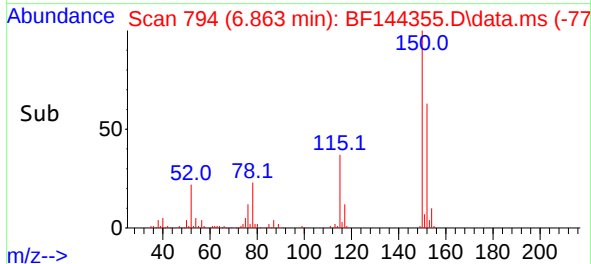
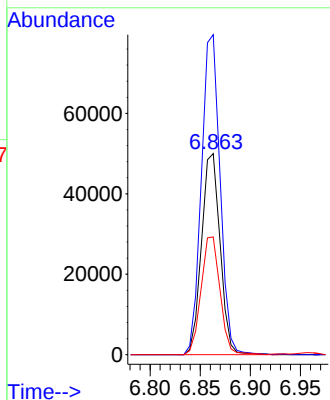
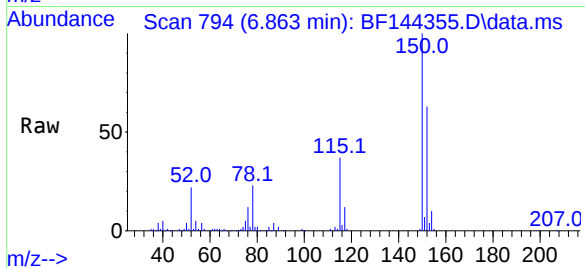




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

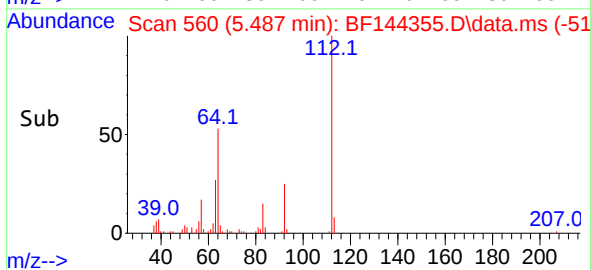
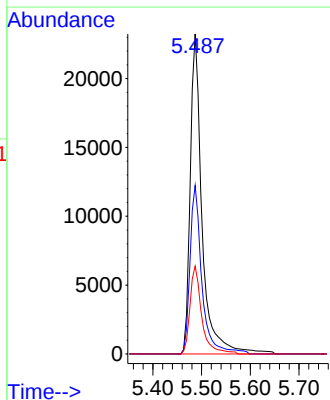
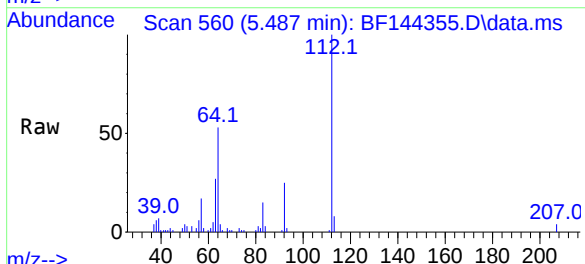
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

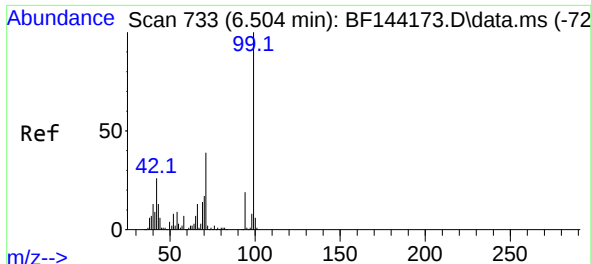
Tgt Ion:152 Resp: 64672
Ion Ratio Lower Upper
152 100
150 159.1 127.4 191.0
115 58.6 49.5 74.3



#5
2-Fluorophenol
Concen: 9.537 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:112 Resp: 39415
Ion Ratio Lower Upper
112 100
64 52.7 47.2 70.8
63 27.5 24.4 36.6

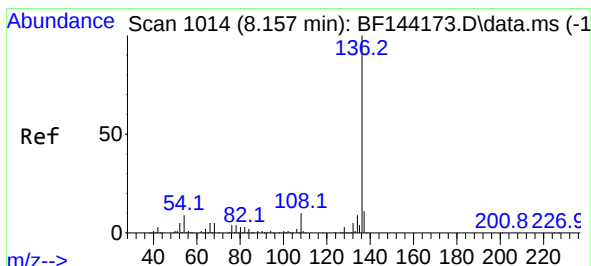
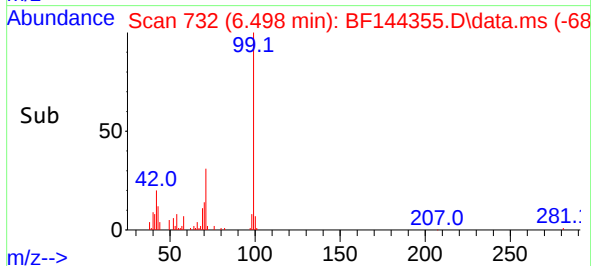
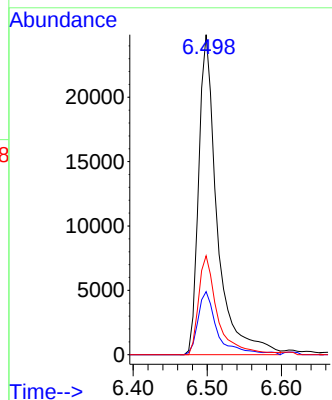
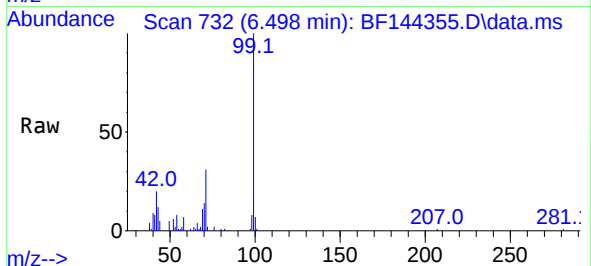




#7
Phenol-d6
Concen: 9.233 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

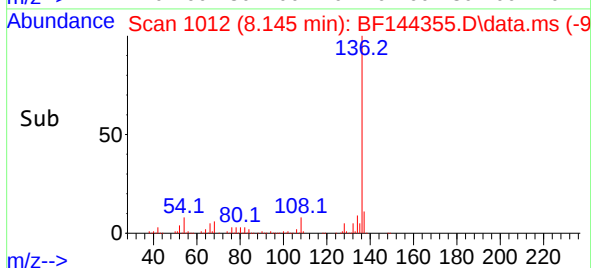
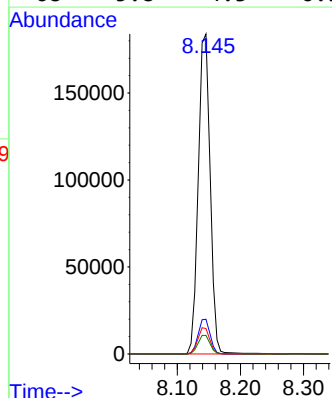
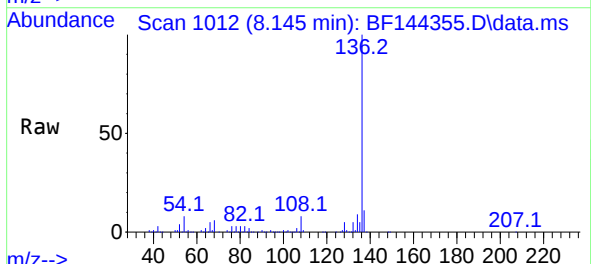
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

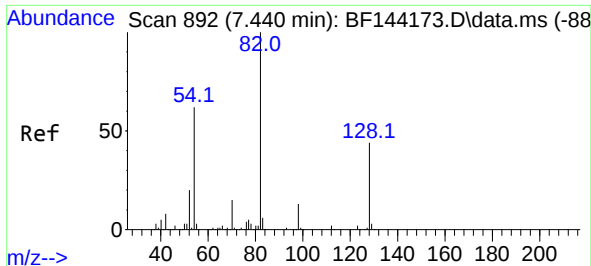
Tgt Ion: 99 Resp: 43235
Ion Ratio Lower Upper
99 100
42 19.7 20.9 31.3#
71 30.9 31.4 47.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

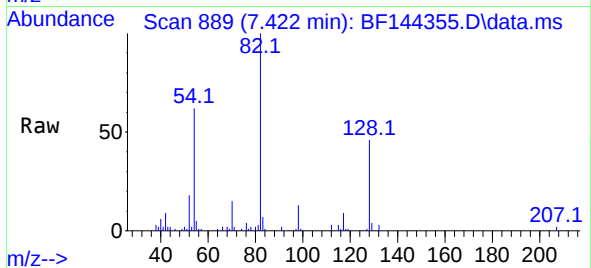
Tgt Ion: 136 Resp: 240359
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.9 7.0 10.6
68 5.8 4.3 6.5



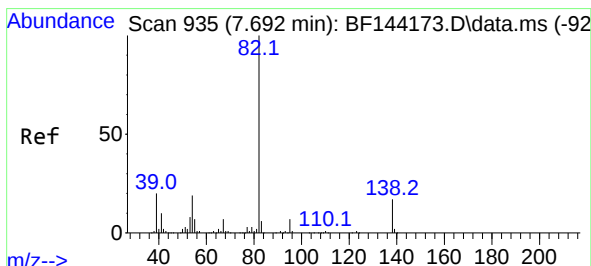
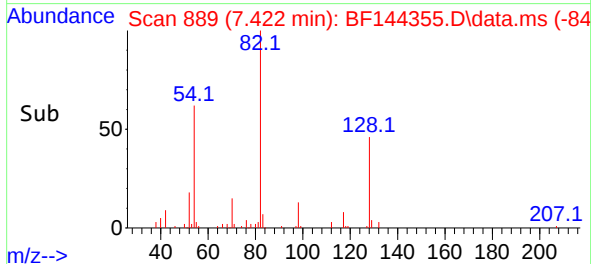
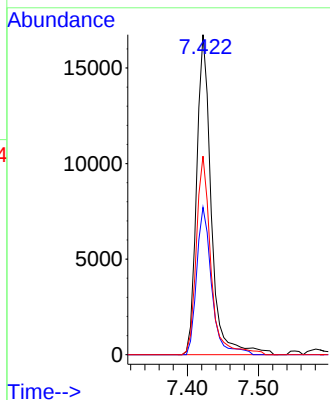


#23
Nitrobenzene-d5
Concen: 5.760 ng
RT: 7.422 min Scan# 889
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

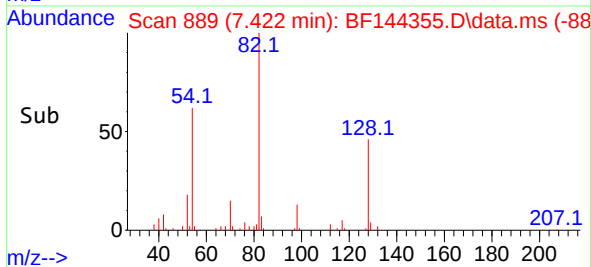
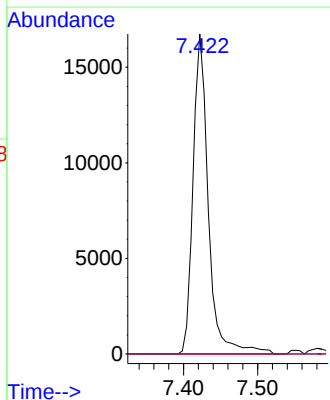
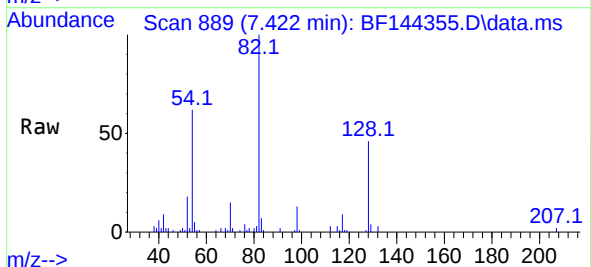


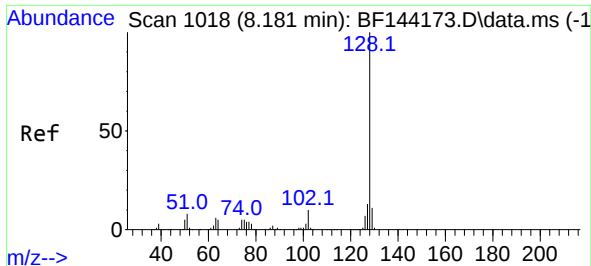
Tgt Ion: 82 Resp: 23973
Ion Ratio Lower Upper
82 100
128 46.1 34.7 52.1
54 62.1 49.5 74.3



#25
Isophorone
Concen: 3.045 ng
RT: 7.422 min Scan# 889
Delta R.T. -0.265 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion: 82 Resp: 23973
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.7 20.5#

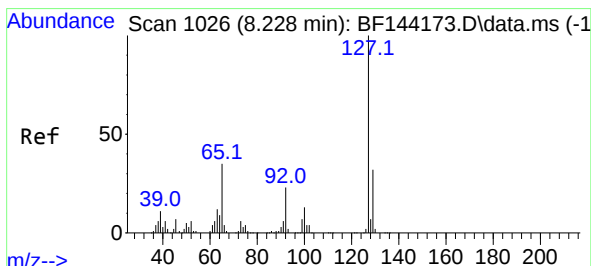
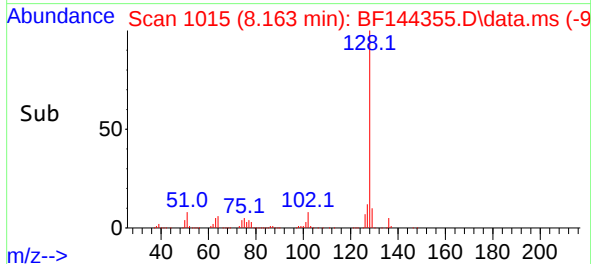
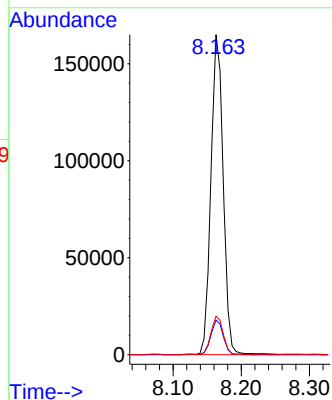
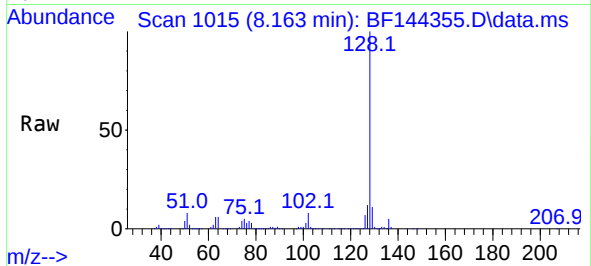




#31
Naphthalene
Concen: 18.077 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

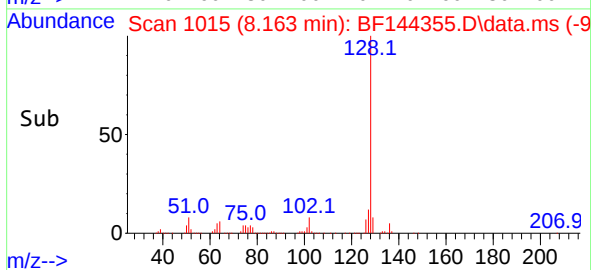
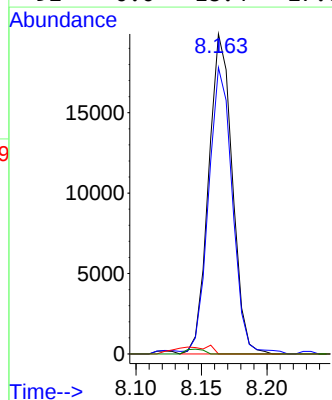
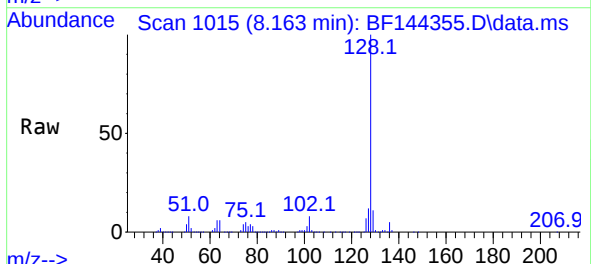
Instrument :
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ClientSampleId :
RBR200028-RT5376-COMPDL

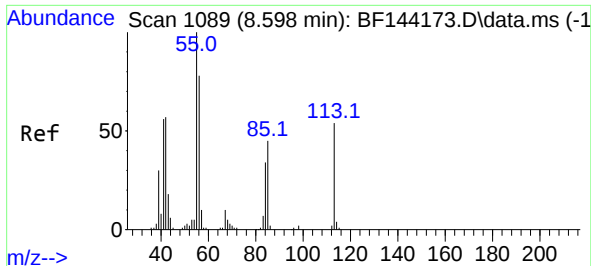
Tgt Ion:128 Resp: 206682
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.1 10.3 15.5



#33
4-Chloroaniline
Concen: 5.988 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.065 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:127 Resp: 24972
Ion Ratio Lower Upper
127 100
129 89.5 25.3 37.9#
65 0.0 27.6 41.4#
92 0.0 18.4 27.6#

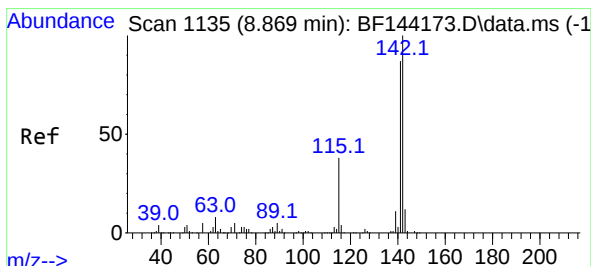
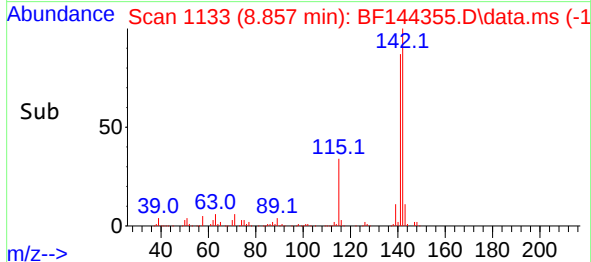
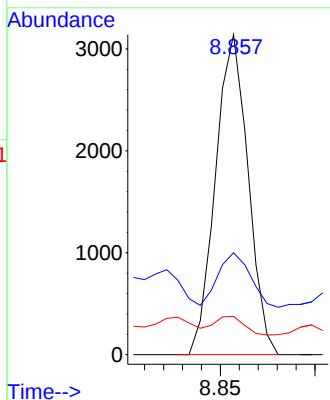
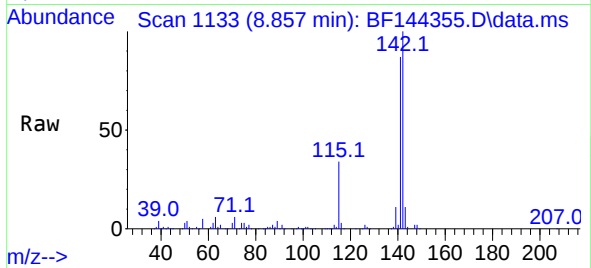




#35
Caprolactam
Concen: 3.546 ng
RT: 8.857 min Scan# 1133
Delta R.T. 0.235 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

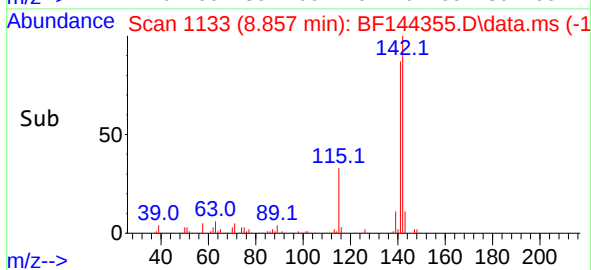
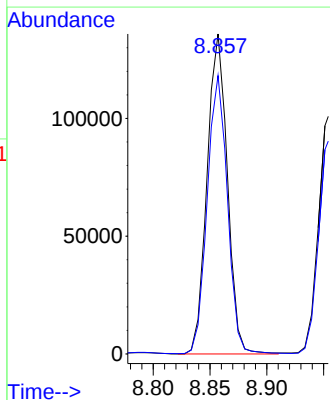
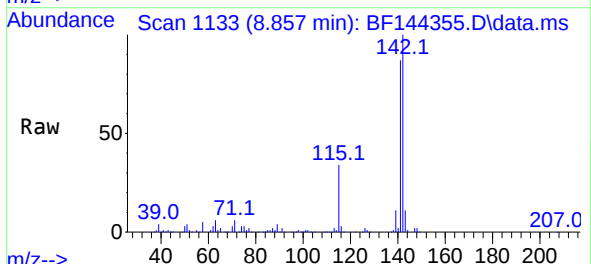
Instrument :
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ClientSampleId :
RBR200028-RT5376-COMPDL

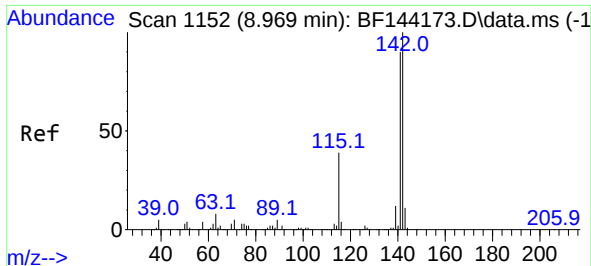
Tgt Ion:113 Resp: 3754
Ion Ratio Lower Upper
113 100
55 31.8 166.8 206.8#
56 11.9 125.9 165.9#



#37
2-Methylnaphthalene
Concen: 22.057 ng
RT: 8.857 min Scan# 1133
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:142 Resp: 168611
Ion Ratio Lower Upper
142 100
141 87.0 69.9 104.9





#38

1-Methylnaphthalene

Concen: 18.189 ng

RT: 8.957 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

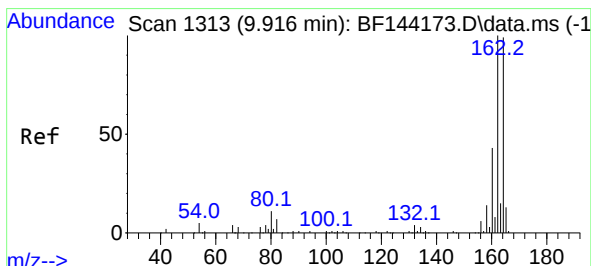
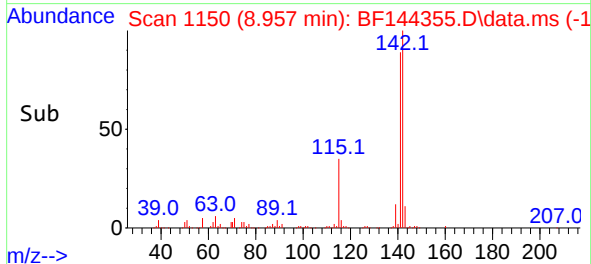
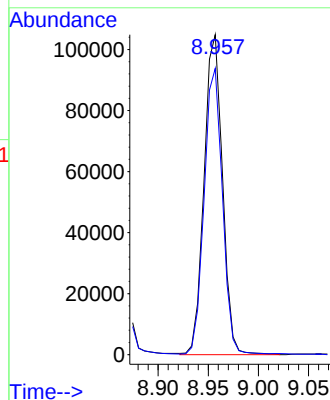
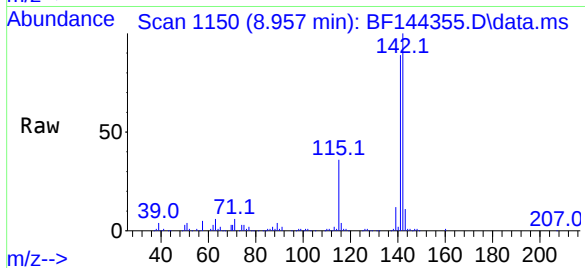
RBR200028-RT5376-COMPDL

Tgt Ion:142 Resp: 134160

Ion Ratio Lower Upper

142 100

141 89.5 72.1 108.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1310

Delta R.T. -0.018 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

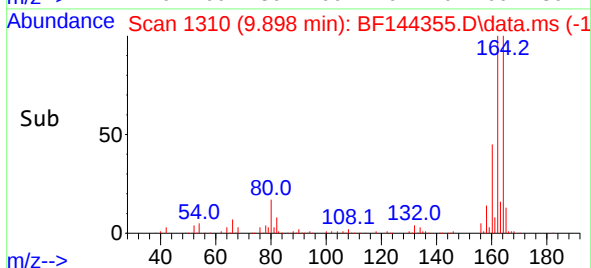
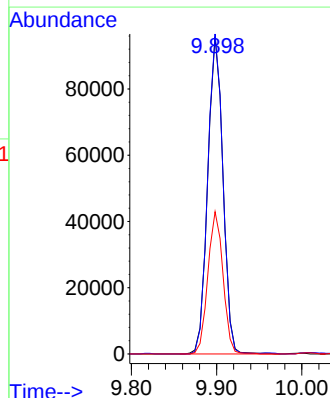
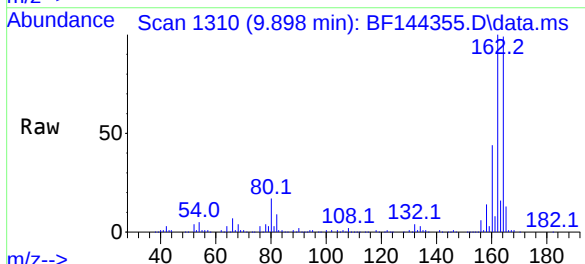
Tgt Ion:164 Resp: 119030

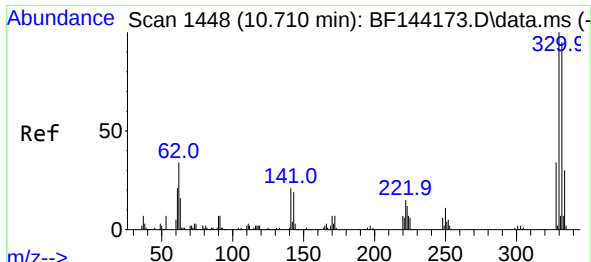
Ion Ratio Lower Upper

164 100

162 100.9 81.1 121.7

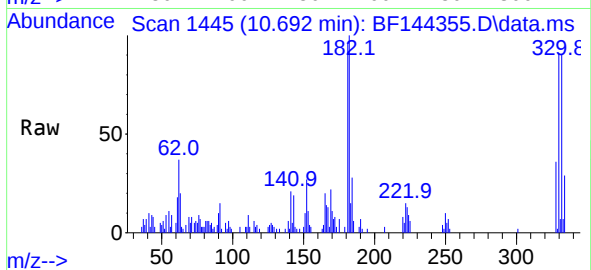
160 44.8 34.5 51.7



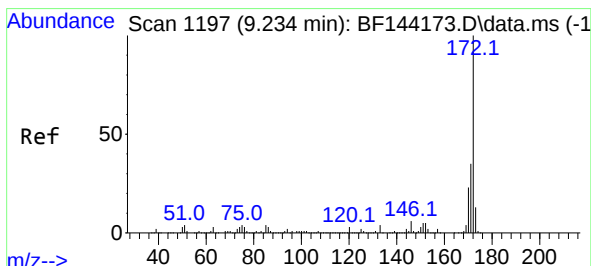
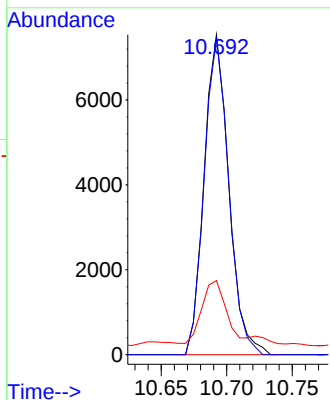
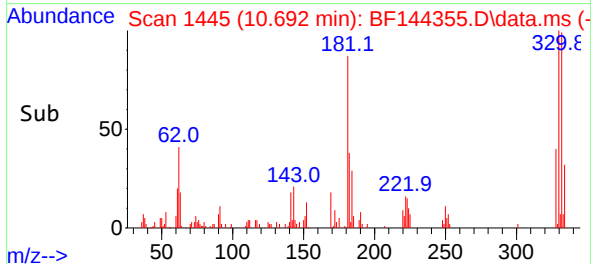


#42
2,4,6-Tribromophenol
Concen: 6.614 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

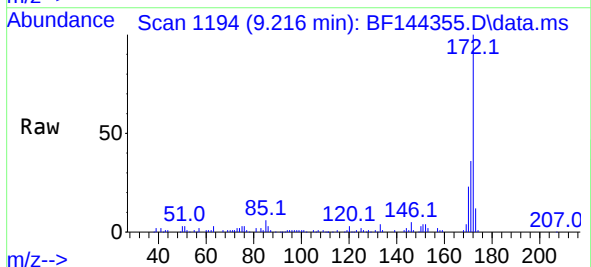
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



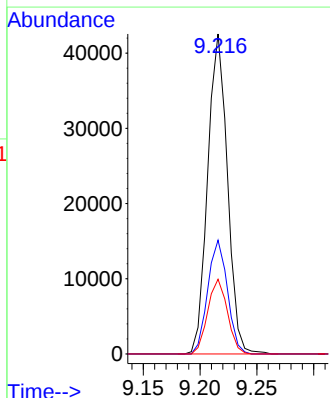
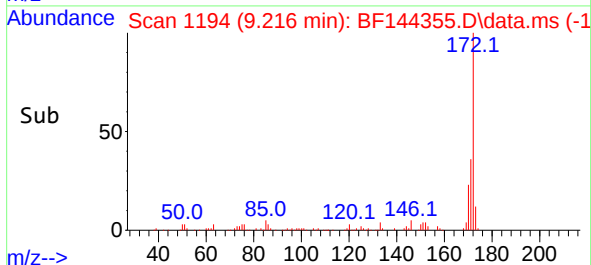
Tgt Ion:330 Resp: 9879
Ion Ratio Lower Upper
330 100
332 98.3 76.7 115.1
141 23.7 17.8 26.8

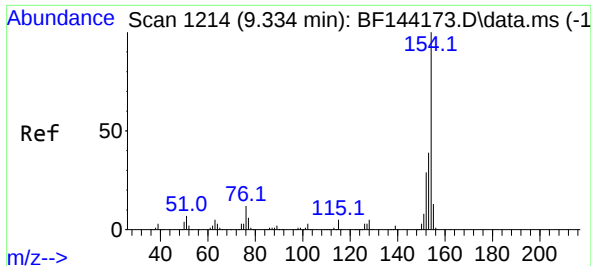


#45
2-Fluorobiphenyl
Concen: 6.381 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44



Tgt Ion:172 Resp: 51423
Ion Ratio Lower Upper
172 100
171 35.5 28.1 42.1
170 23.3 18.6 28.0

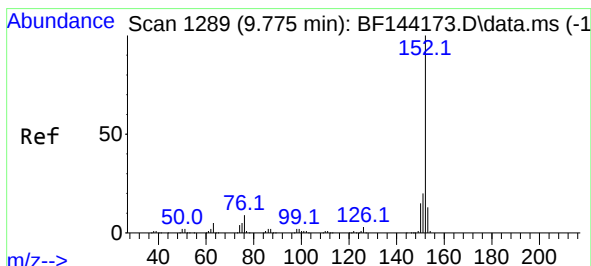
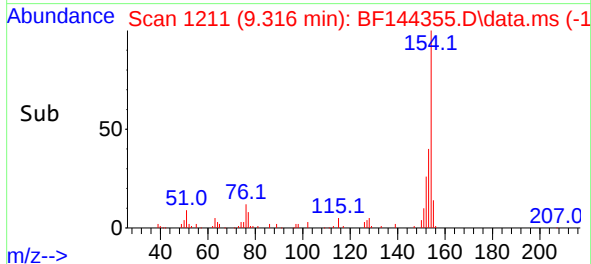
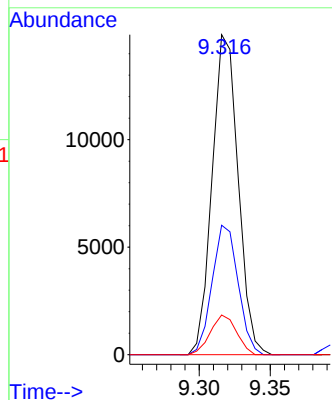
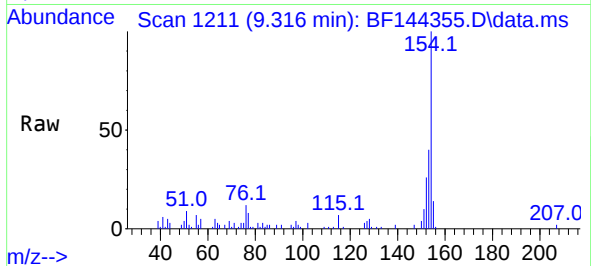




#46
1,1'-Biphenyl
Concen: 2.279 ng
RT: 9.316 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

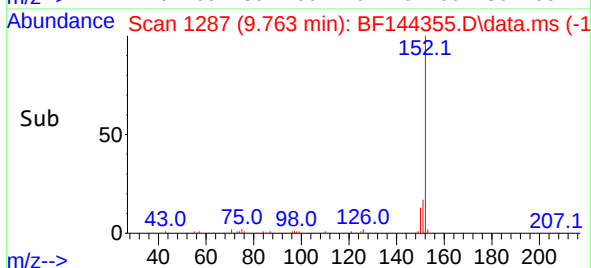
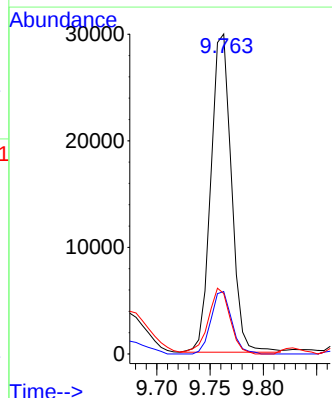
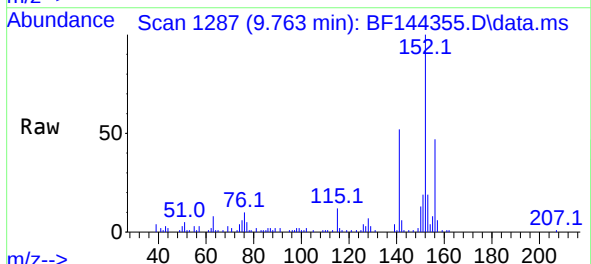
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

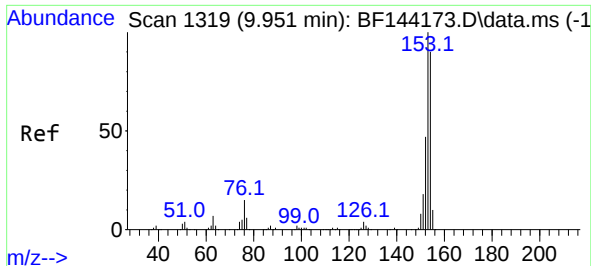
Tgt Ion:154 Resp: 18936
Ion Ratio Lower Upper
154 100
153 40.4 19.2 59.2
76 12.4 0.0 31.8



#49
Acenaphthylene
Concen: 4.143 ng
RT: 9.763 min Scan# 1287
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:152 Resp: 40013
Ion Ratio Lower Upper
152 100
151 19.5 15.9 23.9
153 18.9 10.5 15.7#

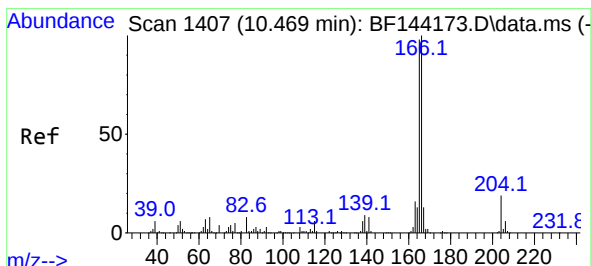
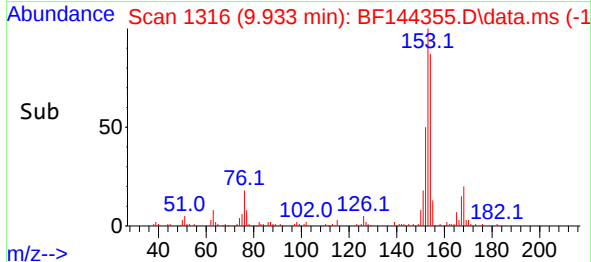
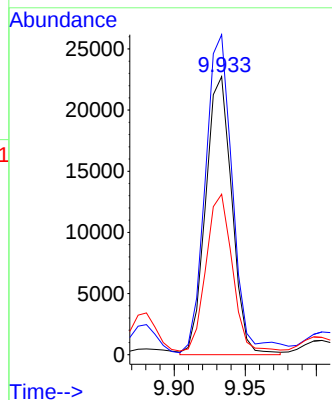
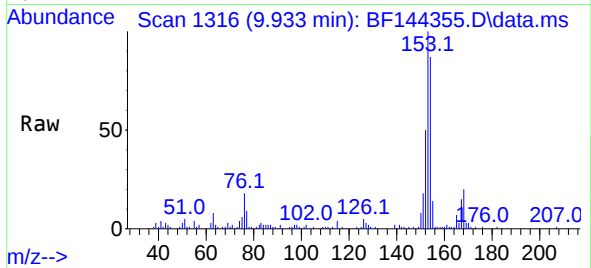




#52
Acenaphthene
Concen: 4.526 ng
RT: 9.933 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

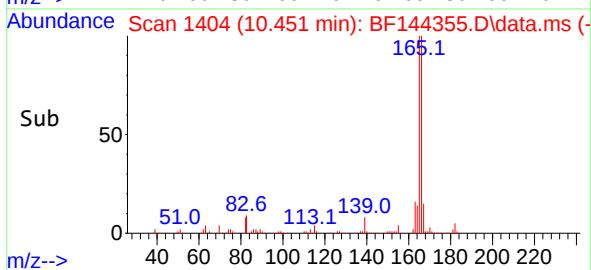
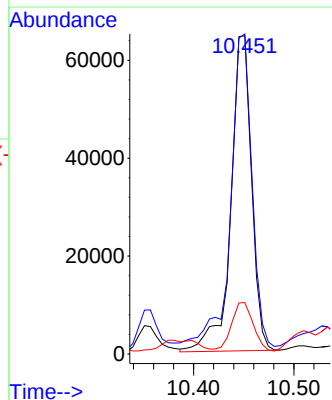
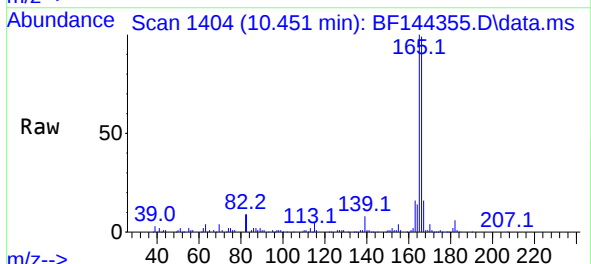
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

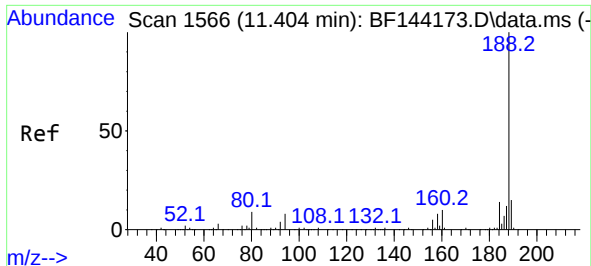
Tgt Ion:154 Resp: 29231
Ion Ratio Lower Upper
154 100
153 115.1 89.0 133.4
152 57.7 42.2 63.4



#58
Fluorene
Concen: 13.479 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:166 Resp: 92702
Ion Ratio Lower Upper
166 100
165 100.6 78.6 118.0
167 16.2 10.4 15.6#

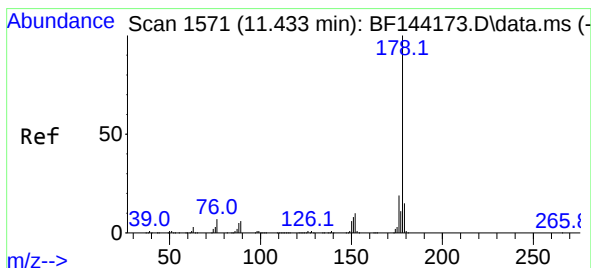
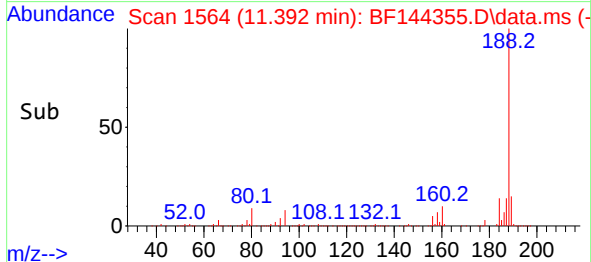
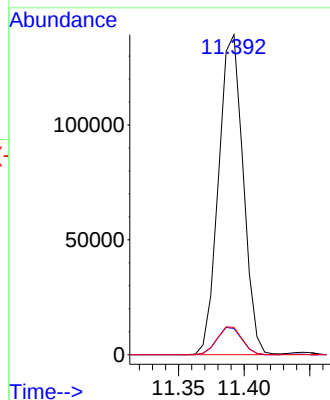
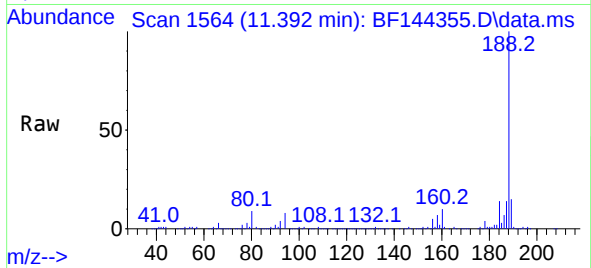




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11392
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

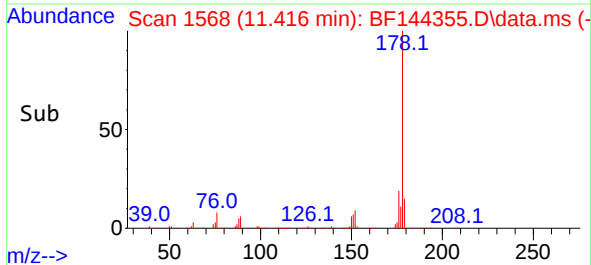
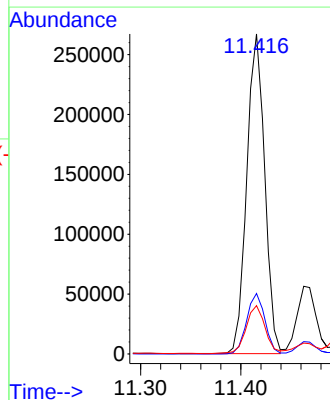
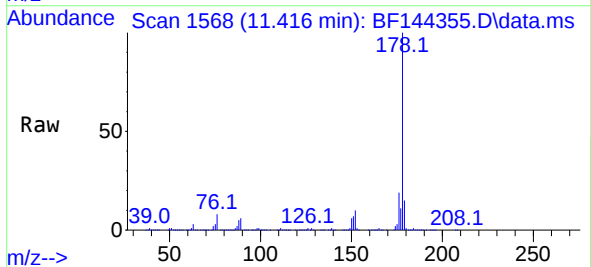
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

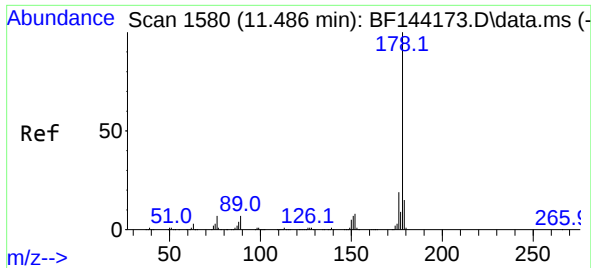
Tgt Ion:188 Resp: 181521
Ion Ratio Lower Upper
188 100
94 8.2 6.2 9.2
80 8.5 6.9 10.3



#71
Phenanthrene
Concen: 36.741 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:178 Resp: 332055
Ion Ratio Lower Upper
178 100
176 18.9 15.5 23.3
179 15.1 12.2 18.4

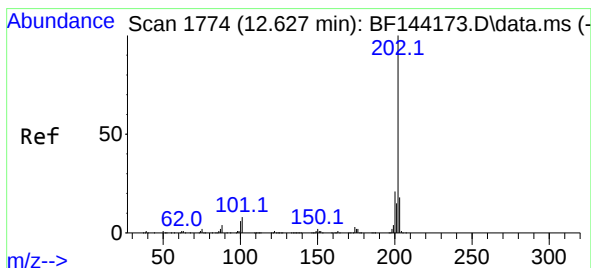
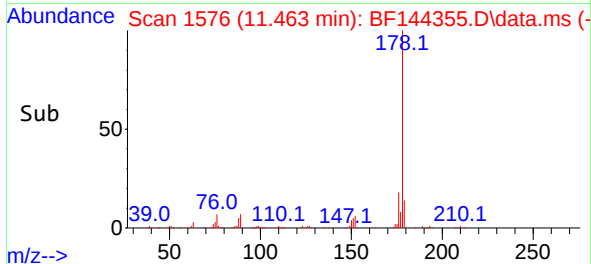
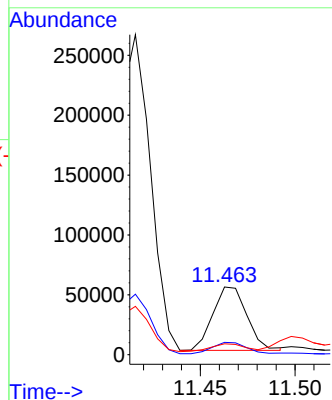
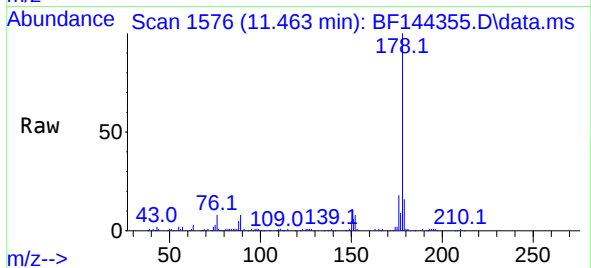




#72
 Anthracene
 Concen: 7.225 ng
 RT: 11.463 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF144355.D
 Acq: 25 Nov 2025 17:44

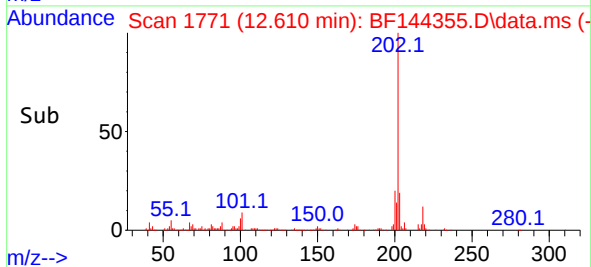
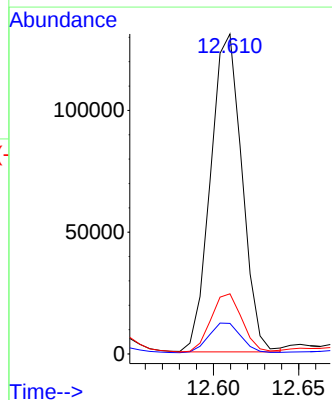
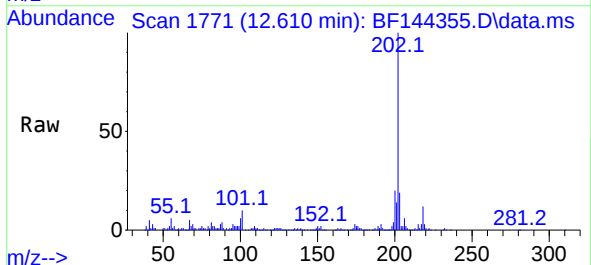
Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMPDL

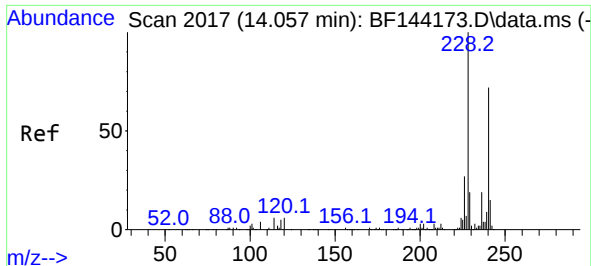
Tgt Ion:178	Resp:	66399
Ion	Ratio	Lower Upper
178	100	
176	18.2	15.3 22.9
179	16.0	12.0 18.0



#75
 Fluoranthene
 Concen: 17.967 ng
 RT: 12.610 min Scan# 1771
 Delta R.T. -0.012 min
 Lab File: BF144355.D
 Acq: 25 Nov 2025 17:44

Tgt Ion:202	Resp:	167737
Ion	Ratio	Lower Upper
202	100	
101	9.6	0.0 27.9
203	18.8	0.0 37.5

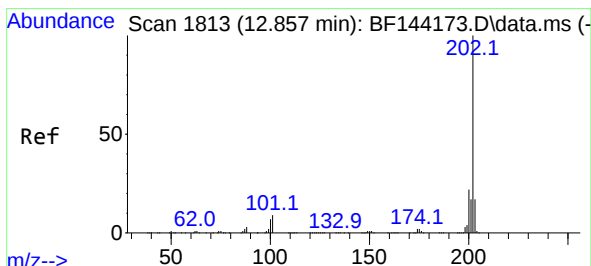
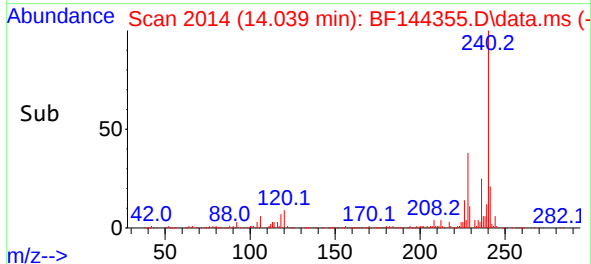
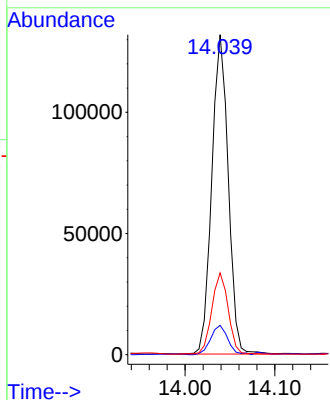
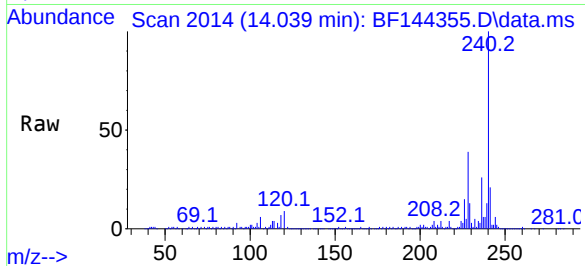




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

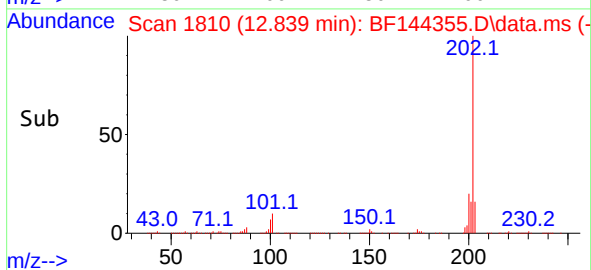
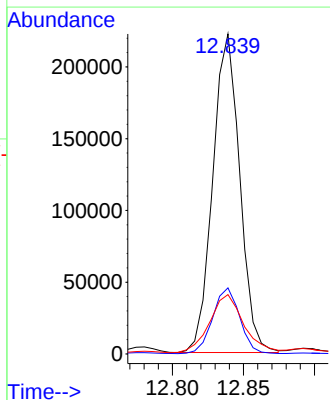
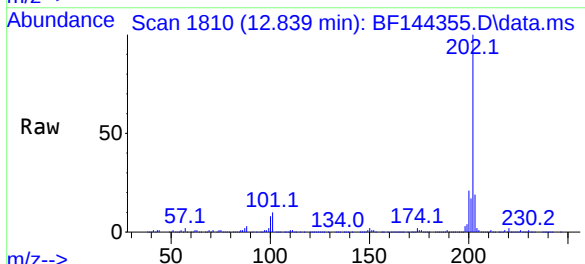
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

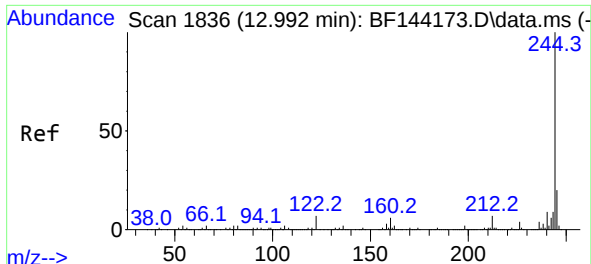
Tgt Ion:240 Resp: 167558
Ion Ratio Lower Upper
240 100
120 9.2 6.6 10.0
236 25.5 21.4 32.2



#78
Pyrene
Concen: 21.709 ng
RT: 12.839 min Scan# 1810
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

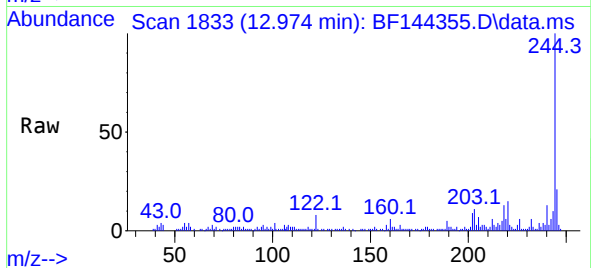
Tgt Ion:202 Resp: 293289
Ion Ratio Lower Upper
202 100
200 20.6 17.2 25.8
203 18.6 13.7 20.5



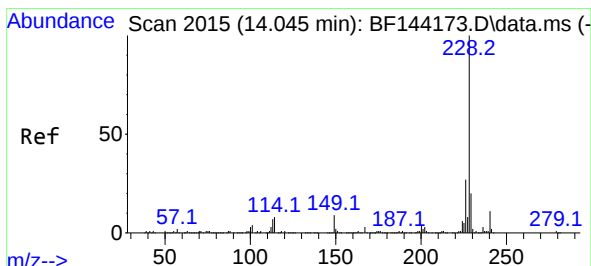
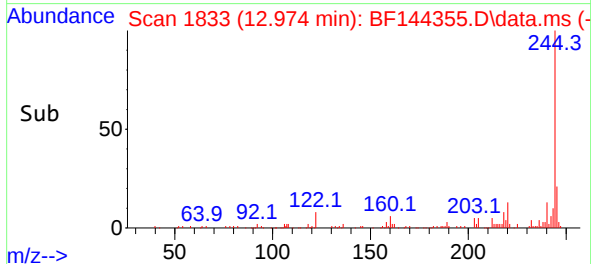
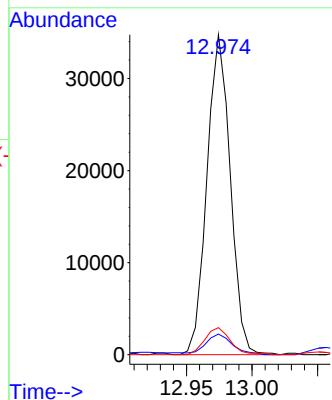


#79
Terphenyl-d14
Concen: 4.083 ng
RT: 12.974 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

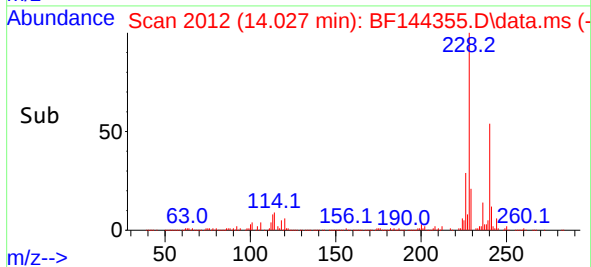
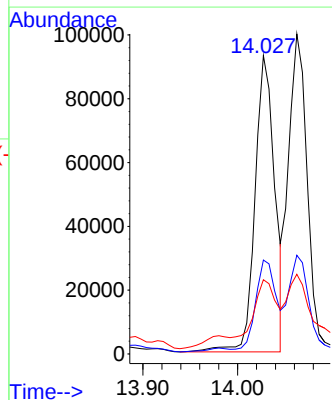
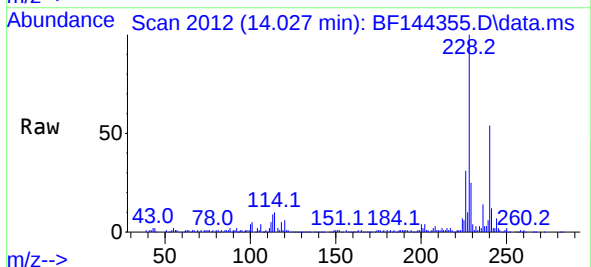


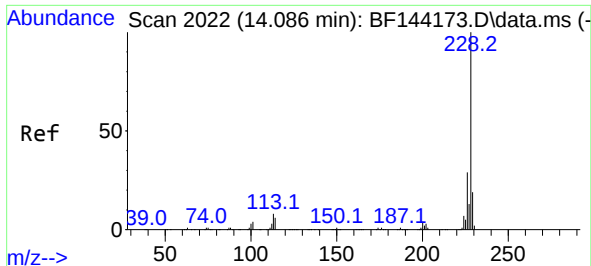
Tgt Ion:244 Resp: 43071
Ion Ratio Lower Upper
244 100
212 6.4 5.3 7.9
122 8.5 5.6 8.4#



#81
Benzo(a)anthracene
Concen: 11.590 ng
RT: 14.027 min Scan# 2012
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

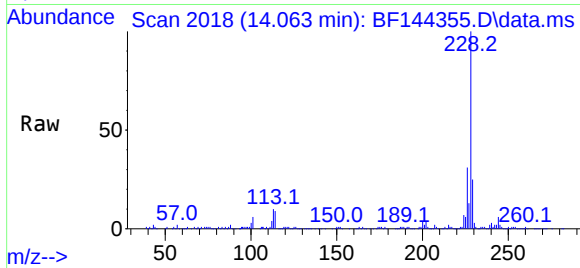
Tgt Ion:228 Resp: 134599
Ion Ratio Lower Upper
228 100
226 31.5 21.8 32.8
229 24.9 15.8 23.6#



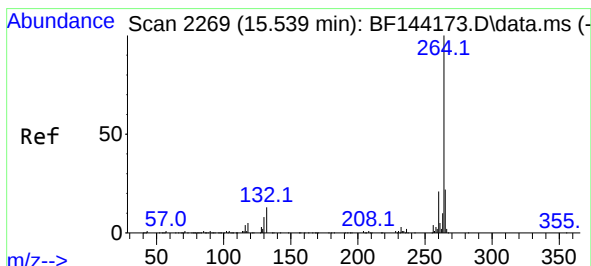
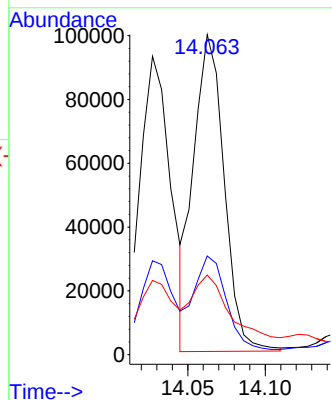
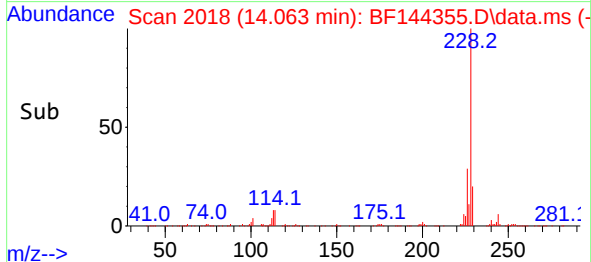


#83
Chrysene
Concen: 12.669 ng
RT: 14.063 min Scan# 20
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

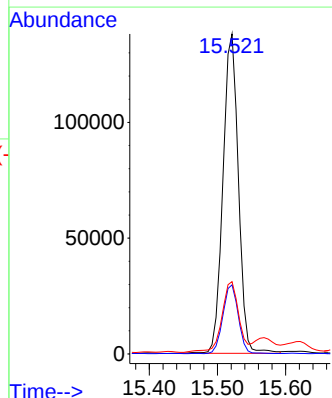
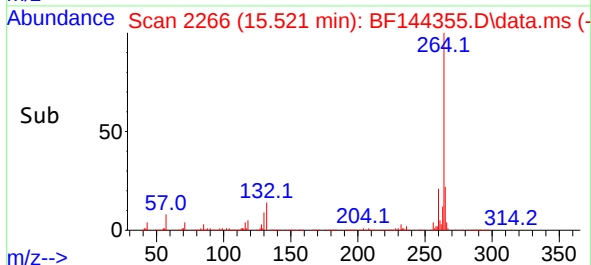
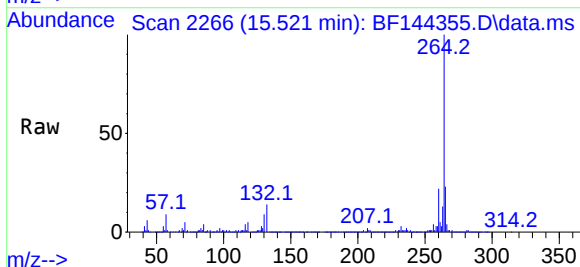


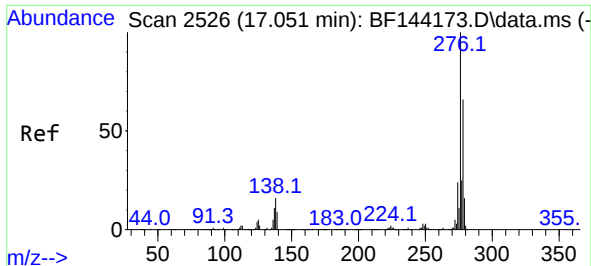
Tgt Ion:228 Resp: 135821
Ion Ratio Lower Upper
228 100
226 30.8 22.9 34.3
229 24.9 15.0 22.6#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:264 Resp: 217919
Ion Ratio Lower Upper
264 100
260 21.6 17.1 25.7
265 22.6 17.4 26.0

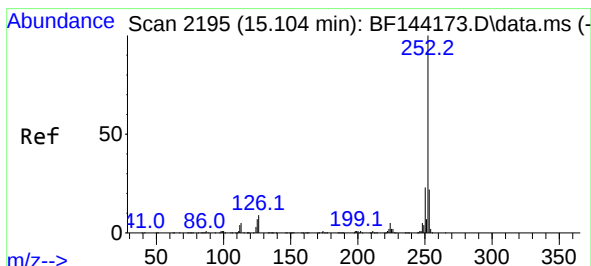
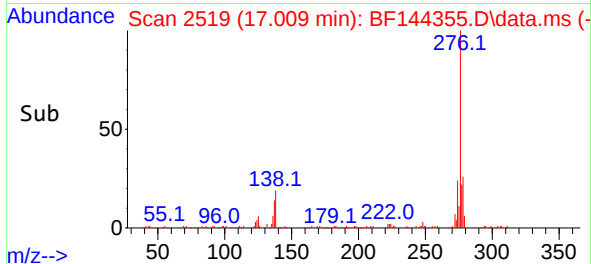
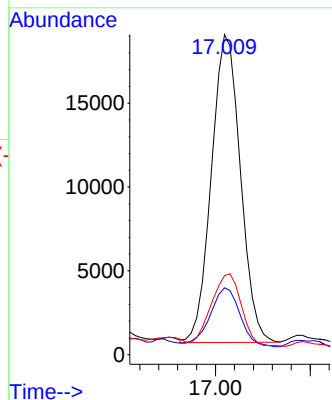
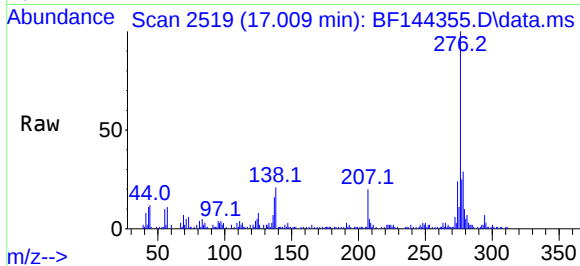




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.502 ng
 RT: 17.009 min Scan# 2119
 Delta R.T. -0.024 min
 Lab File: BF144355.D
 Acq: 25 Nov 2025 17:44

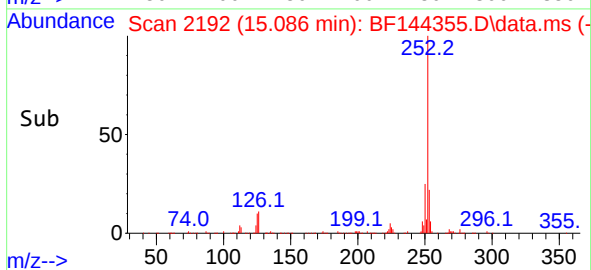
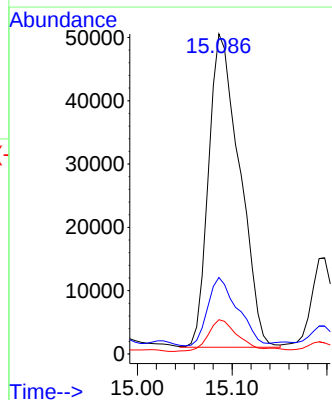
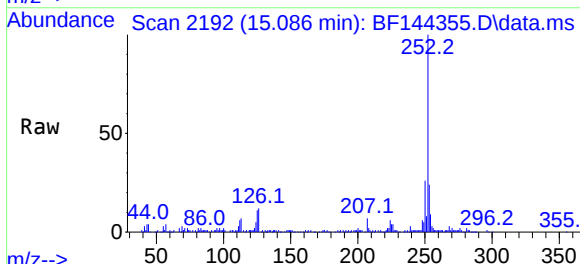
Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMPDL

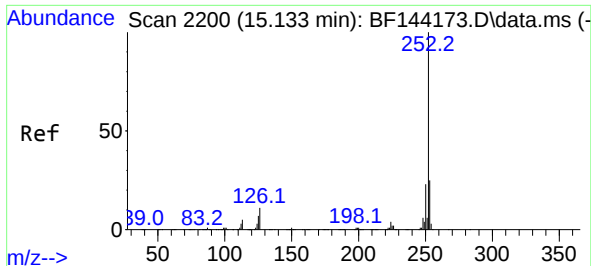
Tgt Ion:	276	Resp:	39143
Ion Ratio	Lower	Upper	
276	100		
138	20.3	13.9	20.9
277	24.4	19.8	29.6



#88
 Benzo(b)fluoranthene
 Concen: 9.093 ng
 RT: 15.086 min Scan# 2192
 Delta R.T. -0.012 min
 Lab File: BF144355.D
 Acq: 25 Nov 2025 17:44

Tgt Ion:	252	Resp:	112653
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.4	26.2
125	10.7	5.3	7.9





#89

Benzo(k)fluoranthene

Concen: 9.672 ng

RT: 15.086 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

RBR200028-RT5376-COMPDL

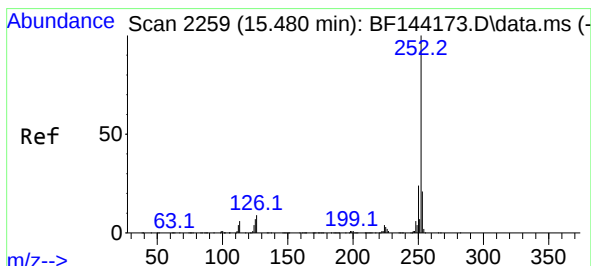
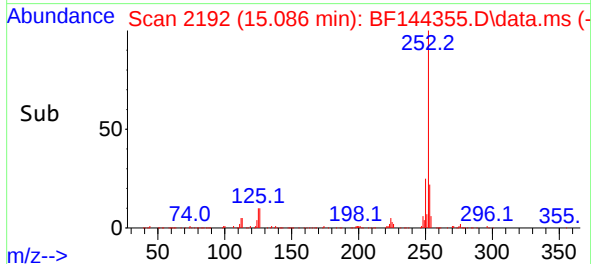
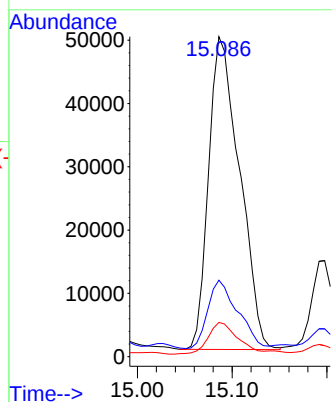
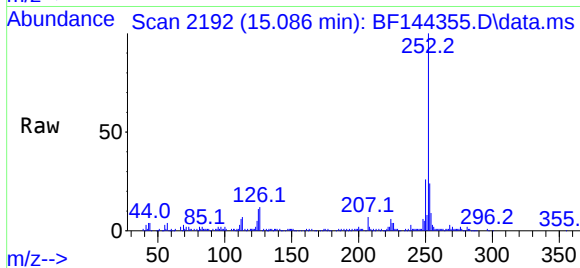
Tgt Ion:252 Resp: 112160

Ion Ratio Lower Upper

252 100

253 23.9 18.0 27.0

125 10.7 5.4 8.2#



#90

Benzo(a)pyrene

Concen: 8.303 ng

RT: 15.457 min Scan# 2255

Delta R.T. -0.018 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

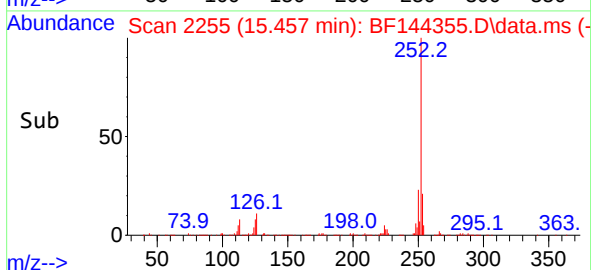
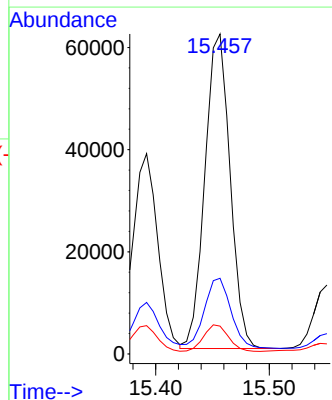
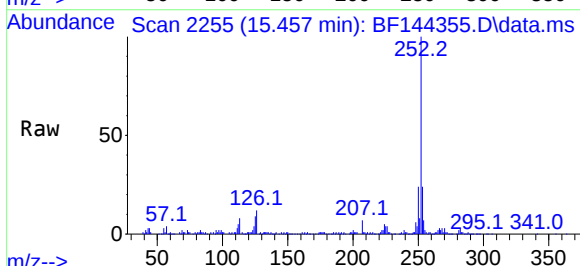
Tgt Ion:252 Resp: 94904

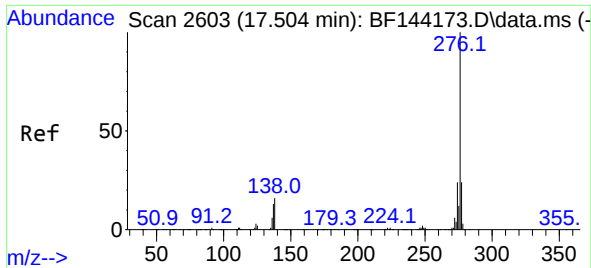
Ion Ratio Lower Upper

252 100

253 23.6 16.7 25.1

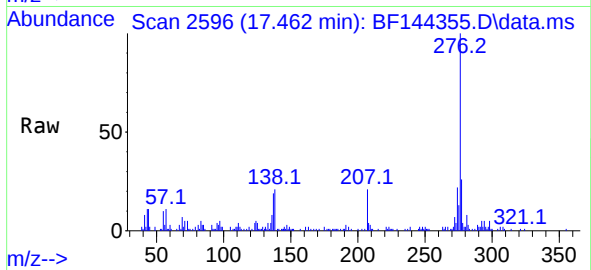
125 8.7 5.7 8.5#





#92
 Benzo(g,h,i)perylene
 Concen: 3.383 ng
 RT: 17.462 min Scan# 21
 Delta R.T. -0.030 min
 Lab File: BF144355.D
 Acq: 25 Nov 2025 17:44

Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMPDL



Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.0	28.4
138	20.6	12.9	19.3

