

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102725\
 Data File : BF144094.D
 Acq On : 27 Oct 2025 20:32
 Operator : RC/JU
 Sample : Q3447-01 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Oct 28 10:42:38 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)

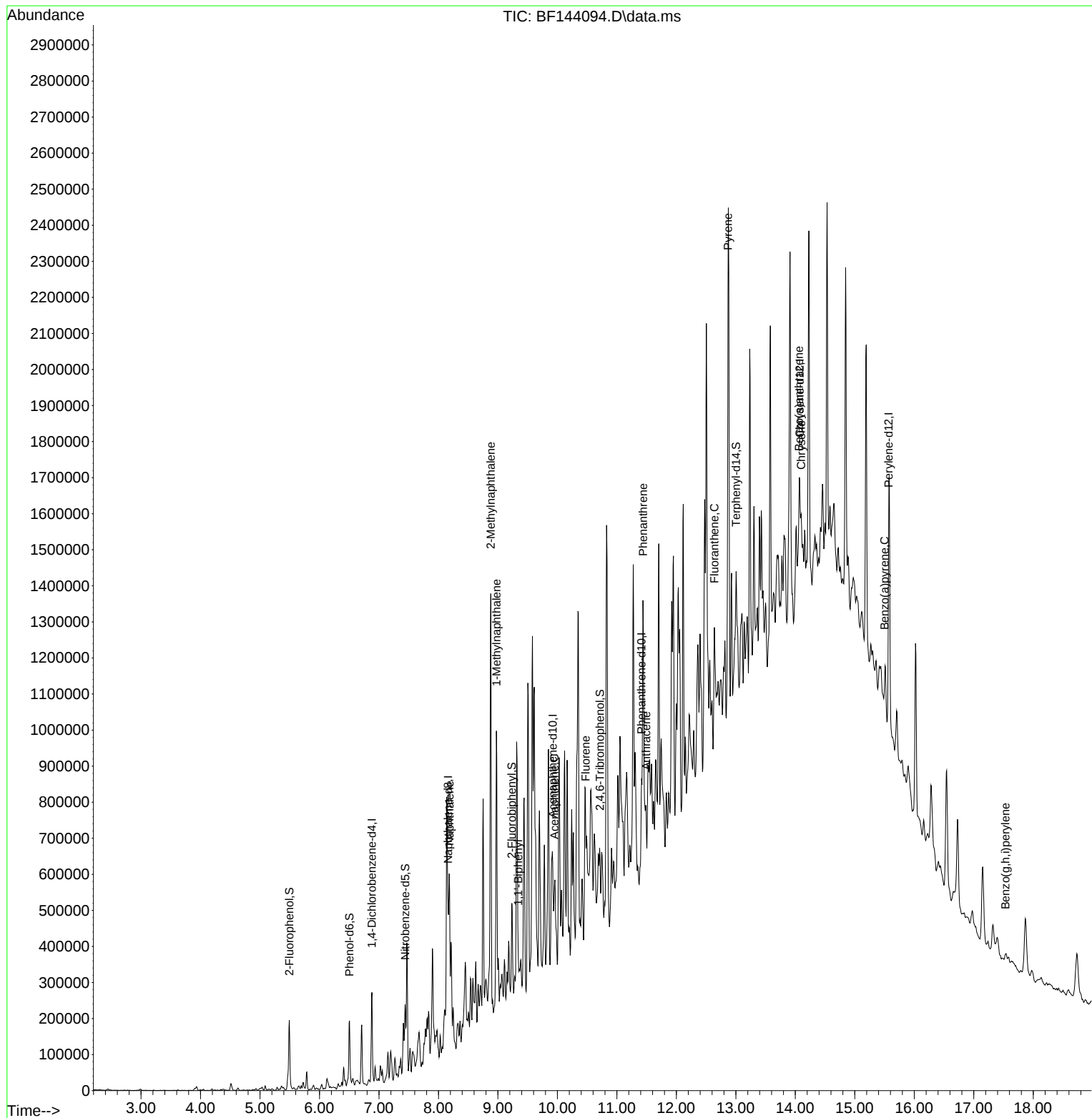
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	49825	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	159443	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	80710	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	133890	20.000	ng	# 0.00
76) Chrysene-d12	14.074	240	129098	20.000	ng	0.02
86) Perylene-d12	15.568	264	99462	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	79171	25.139	ng	0.00
7) Phenol-d6	6.504	99	91945	26.436	ng	0.00
23) Nitrobenzene-d5	7.440	82	56042	19.257	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	21514	20.926	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	113172	19.732	ng	0.00
79) Terphenyl-d14	13.004	244	126191	17.089	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.187	128	200975	26.707	ng	# 96
37) 2-Methylnaphthalene	8.881	142	453609	91.426	ng	98
38) 1-Methylnaphthalene	8.975	142	274948	58.492	ng	99
46) 1,1'-Biphenyl	9.339	154	38891	6.731	ng	98
52) Acenaphthene	9.951	154	22466	5.154	ng	# 69
58) Fluorene	10.475	166	64771	14.048	ng	# 83
71) Phenanthrene	11.439	178	420665	63.248	ng	97
72) Anthracene	11.492	178	66380	9.661	ng	# 89
75) Fluoranthene	12.639	202	64367	8.760	ng	69
78) Pyrene	12.869	202	391662	42.199	ng	# 94
81) Benzo(a)anthracene	14.063	228	86420	9.905	ng	# 26
83) Chrysene	14.098	228	105898	12.935	ng	# 45
90) Benzo(a)pyrene	15.504	252	31582	6.261	ng	# 44
92) Benzo(g,h,i)perylene	17.533	276	24598	4.526	ng	# 74

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

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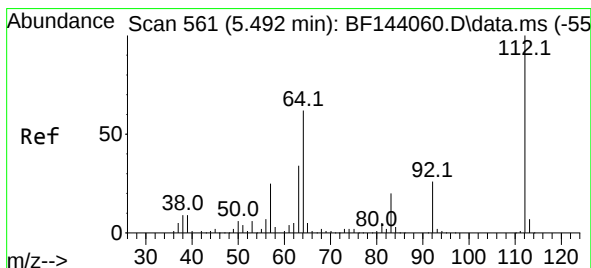
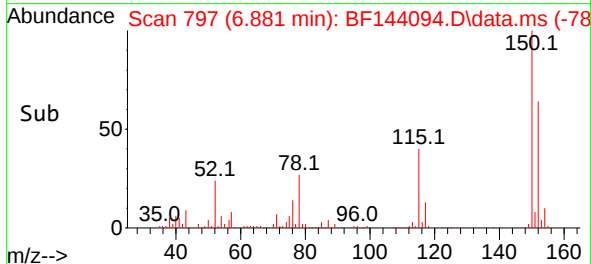
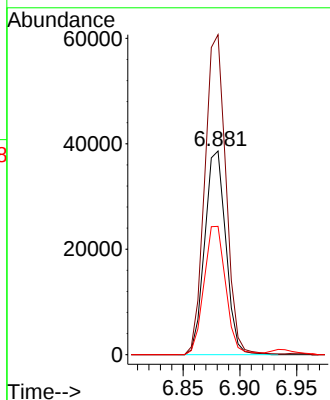
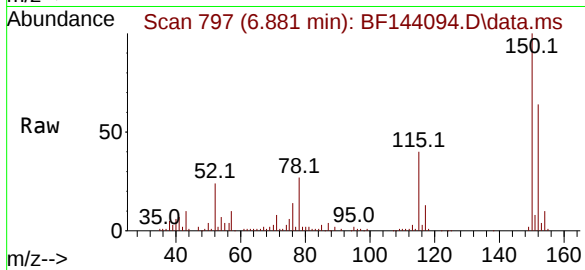




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF144094.D
 Acq: 27 Oct 2025 20:32

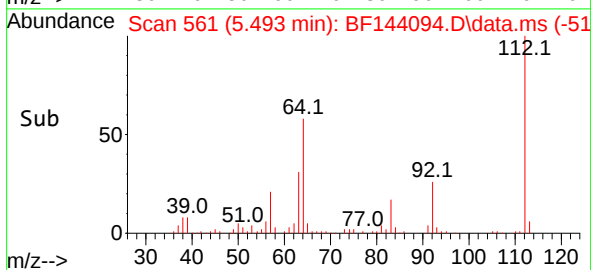
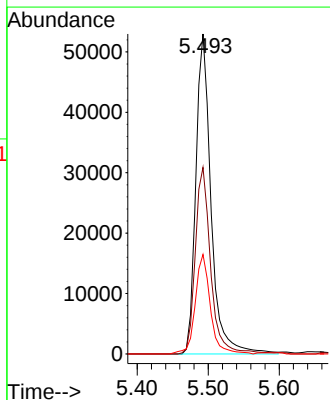
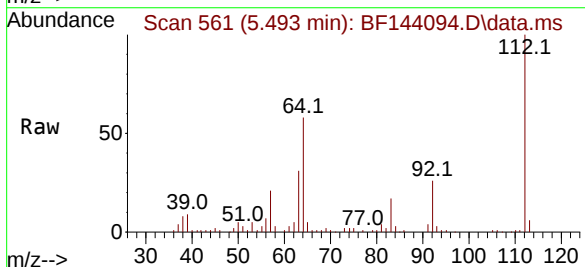
Instrument :
 BNA_F
 ClientSampleId :
 P001-TW1-251023-01

Tgt Ion:152 Resp: 49825
 Ion Ratio Lower Upper
 152 100
 150 157.0 124.4 186.6
 115 63.0 49.4 74.0



#5
 2-Fluorophenol
 Concen: 25.139 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.000 min
 Lab File: BF144094.D
 Acq: 27 Oct 2025 20:32

Tgt Ion:112 Resp: 79171
 Ion Ratio Lower Upper
 112 100
 64 58.3 49.8 74.8
 63 31.1 27.4 41.2

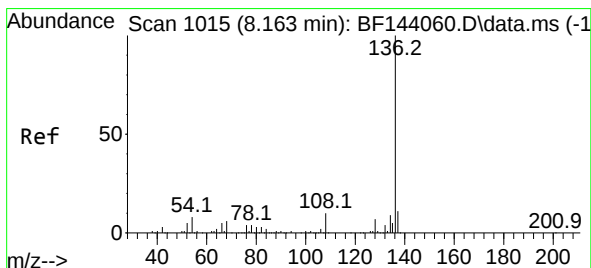
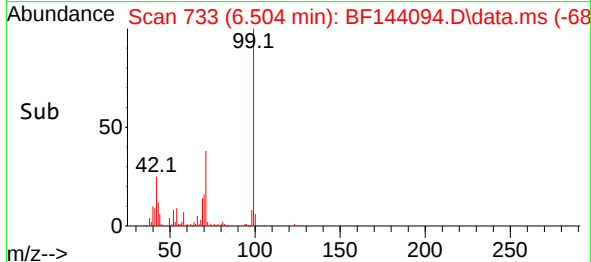
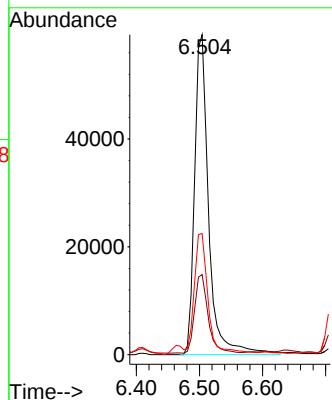
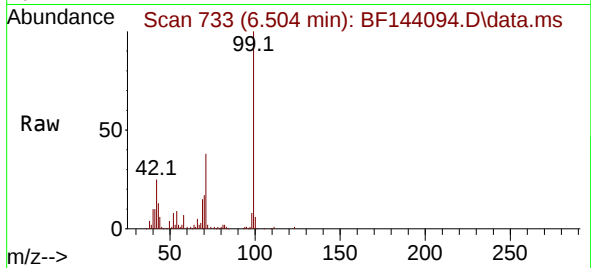




#7
Phenol-d6
Concen: 26.436 ng
RT: 6.504 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

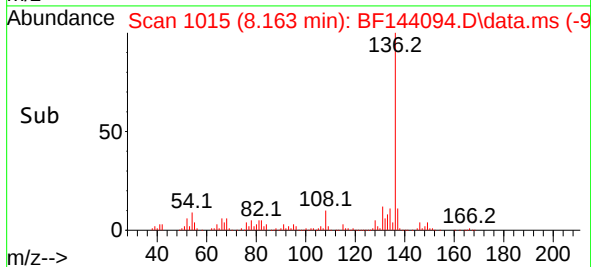
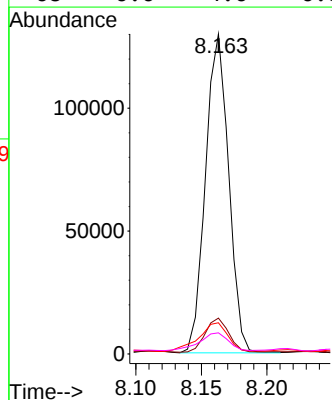
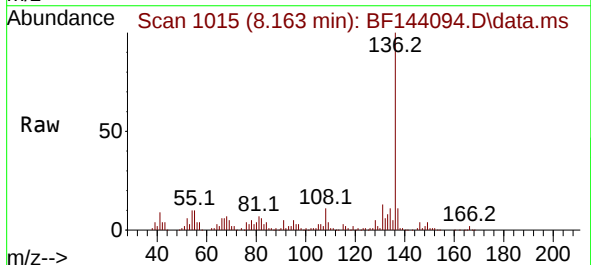
Instrument :
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ClientSampleId :
P001-TW1-251023-01

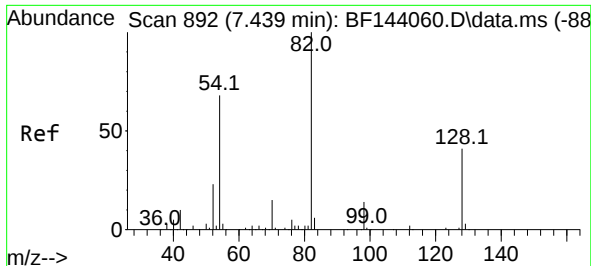
Tgt Ion: 99 Resp: 91945
Ion Ratio Lower Upper
99 100
42 25.0 23.9 35.9
71 37.8 34.4 51.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:136 Resp: 159443
Ion Ratio Lower Upper
136 100
137 11.2 8.6 13.0
54 9.7 6.6 9.8
68 6.6 4.6 6.8

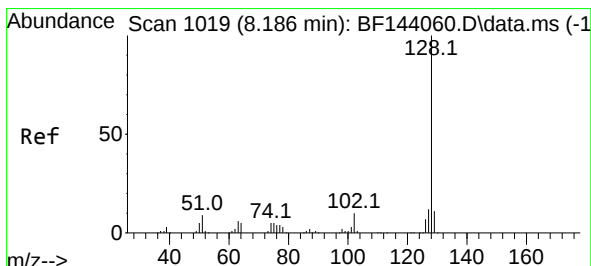
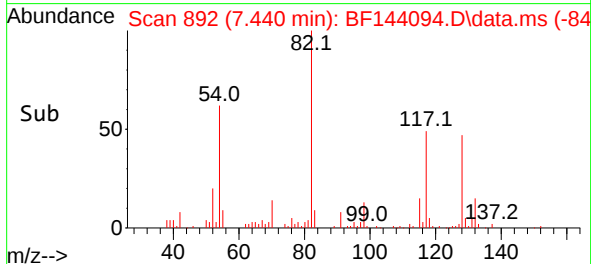
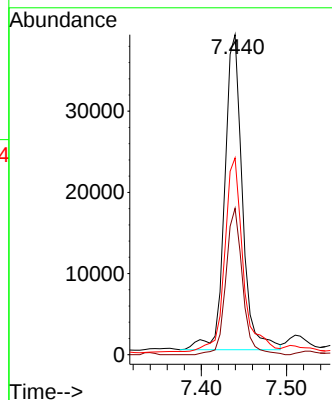
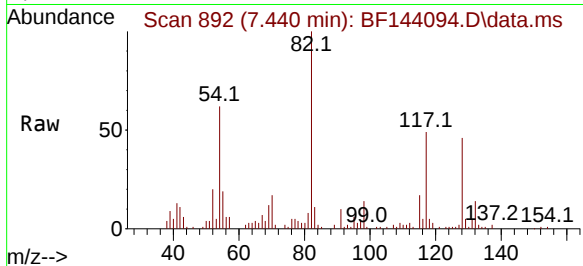




#23
Nitrobenzene-d5
Concen: 19.257 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

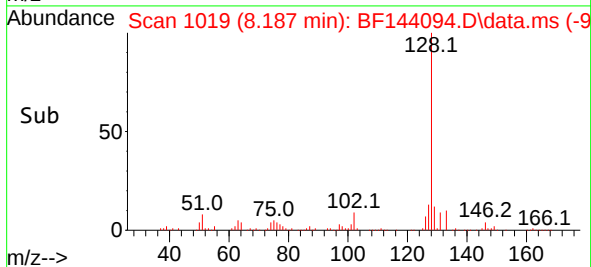
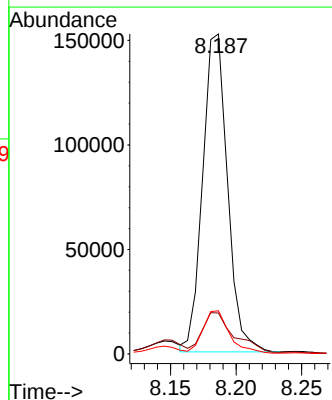
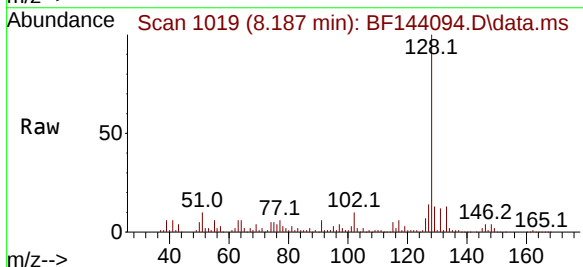
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01

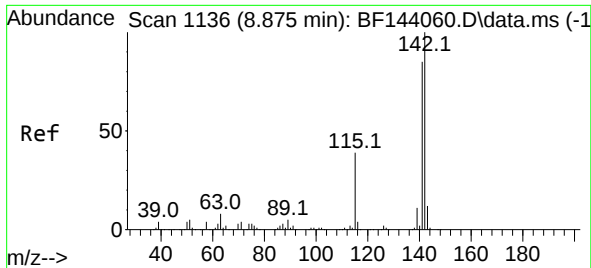
Tgt Ion: 82 Resp: 56042
Ion Ratio Lower Upper
82 100
128 45.7 32.4 48.6
54 61.5 54.0 81.0



#31
Naphthalene
Concen: 26.707 ng
RT: 8.187 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion: 128 Resp: 200975
Ion Ratio Lower Upper
128 100
129 12.8 8.4 12.6#
127 13.5 9.9 14.9

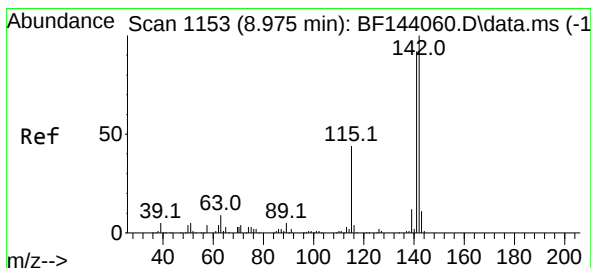
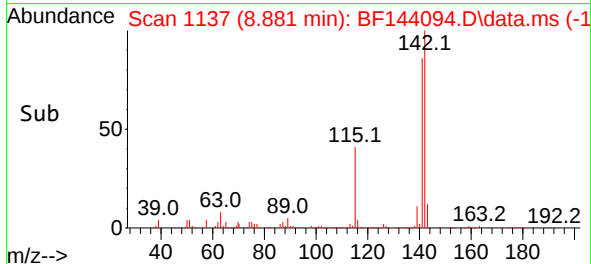
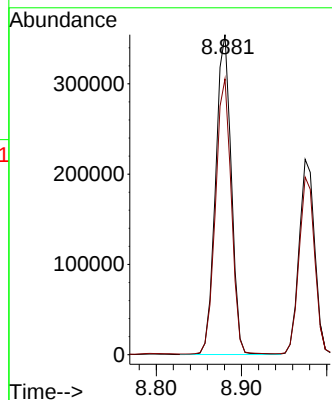
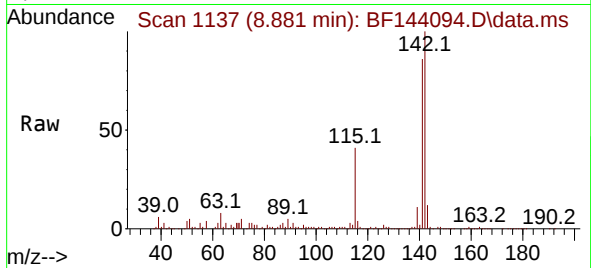




#37
2-Methylnaphthalene
Concen: 91.426 ng
RT: 8.881 min Scan# 1136
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

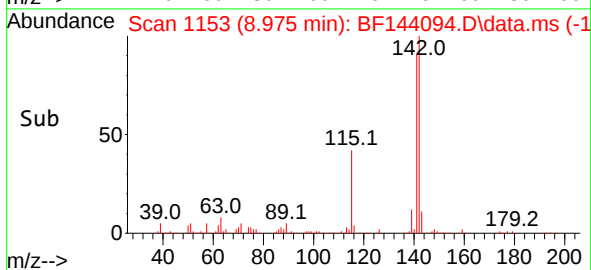
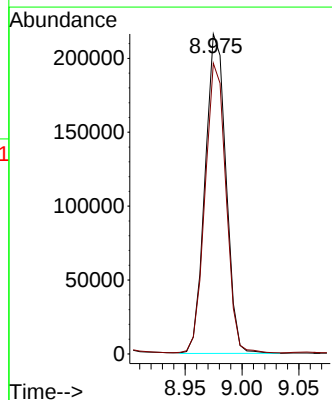
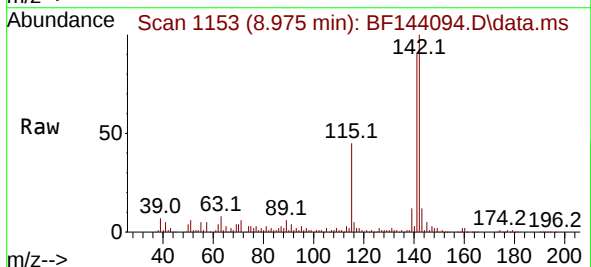
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01

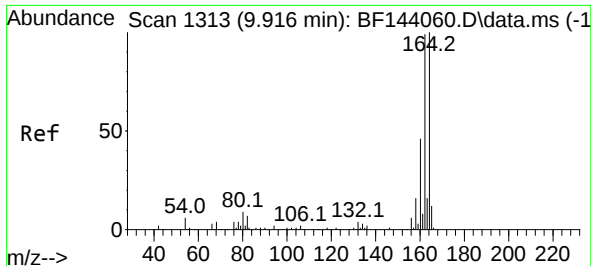
Tgt Ion:142 Resp: 453609
Ion Ratio Lower Upper
142 100
141 86.2 67.6 101.4



#38
1-Methylnaphthalene
Concen: 58.492 ng
RT: 8.975 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:142 Resp: 274948
Ion Ratio Lower Upper
142 100
141 90.8 73.4 110.2

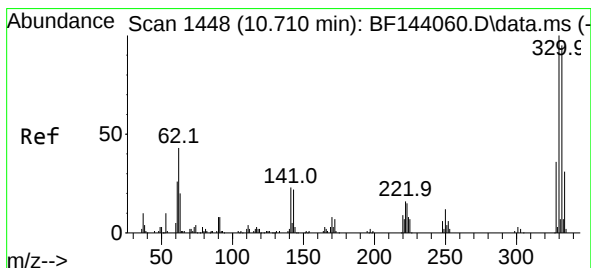
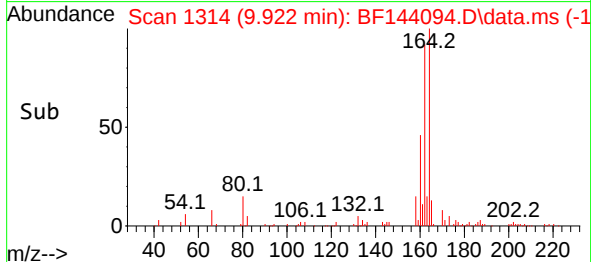
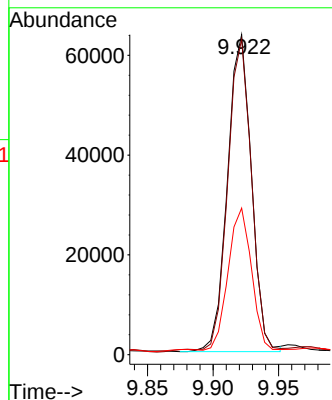
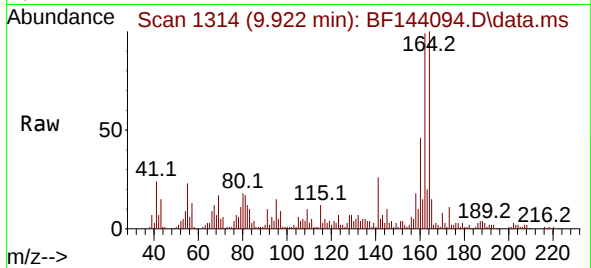




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1313
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

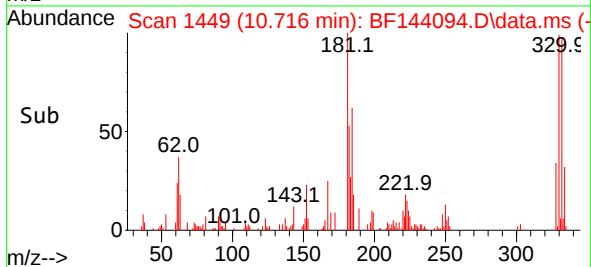
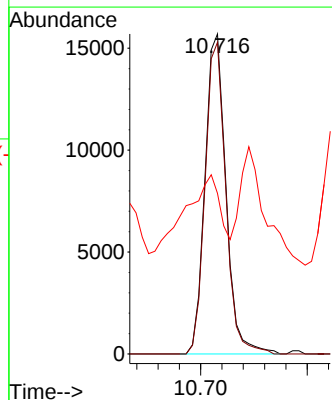
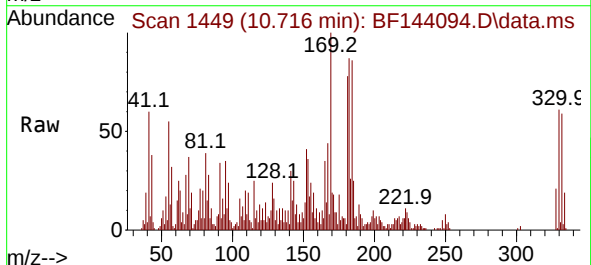
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ClientSampleId :
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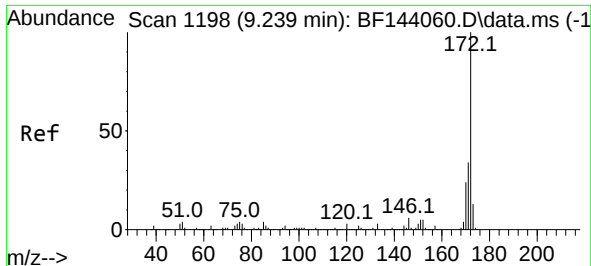
Tgt Ion:164 Resp: 80710
Ion Ratio Lower Upper
164 100
162 98.6 79.4 119.2
160 45.8 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 20.926 ng
RT: 10.716 min Scan# 1449
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:330 Resp: 21514
Ion Ratio Lower Upper
330 100
332 95.9 77.0 115.6
141 37.7 19.4 29.0#

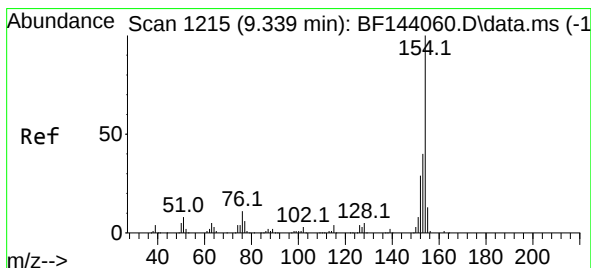
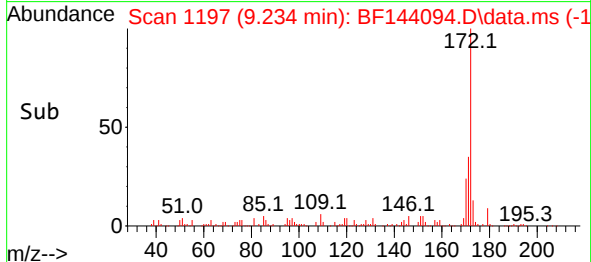
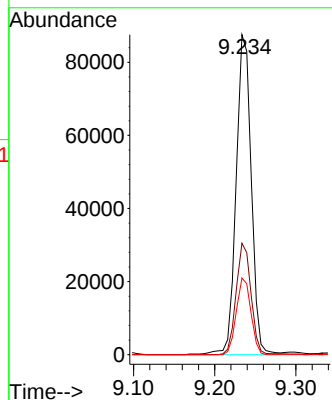
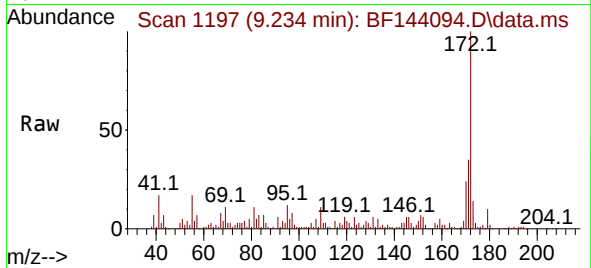




#45
2-Fluorobiphenyl
Concen: 19.732 ng
RT: 9.234 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

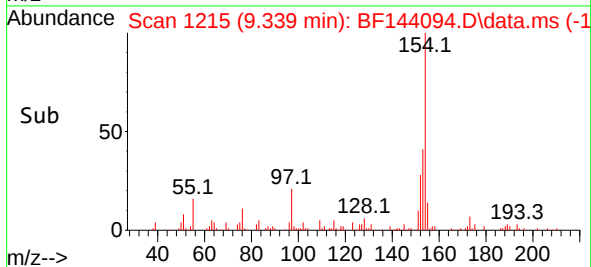
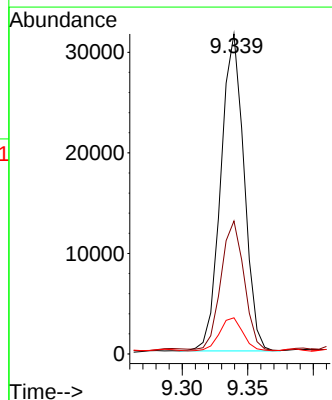
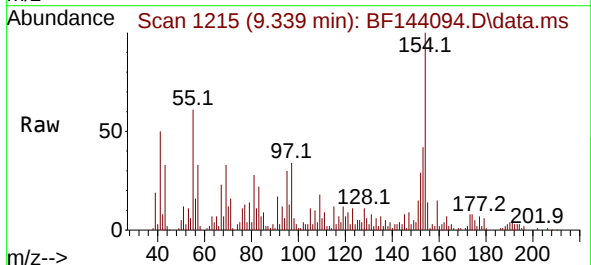
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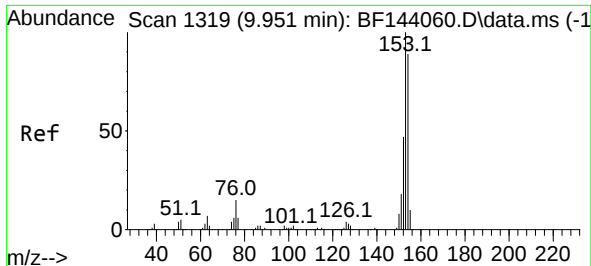
Tgt Ion:172 Resp: 113172
Ion Ratio Lower Upper
172 100
171 34.8 27.5 41.3
170 24.0 19.0 28.6



#46
1,1'-Biphenyl
Concen: 6.731 ng
RT: 9.339 min Scan# 1215
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:154 Resp: 38891
Ion Ratio Lower Upper
154 100
153 41.6 19.7 59.7
76 11.3 0.0 31.1

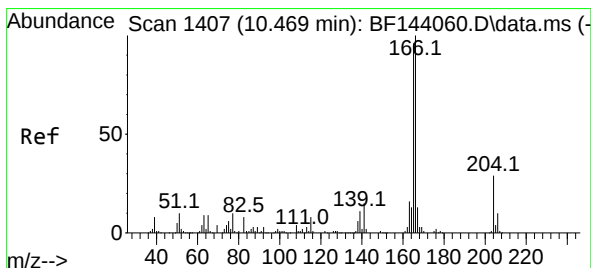
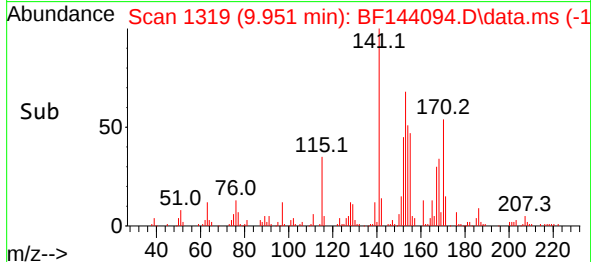
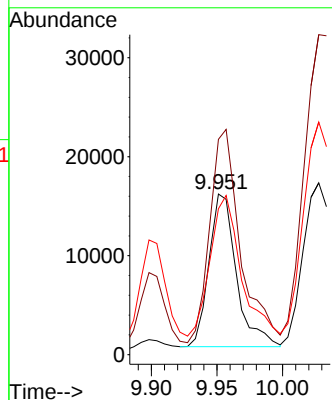
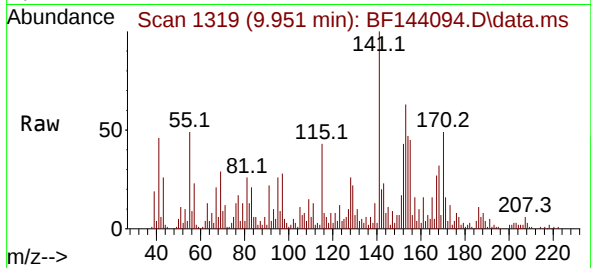




#52
Acenaphthene
Concen: 5.154 ng
RT: 9.951 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

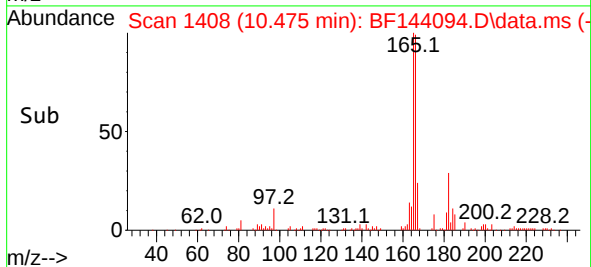
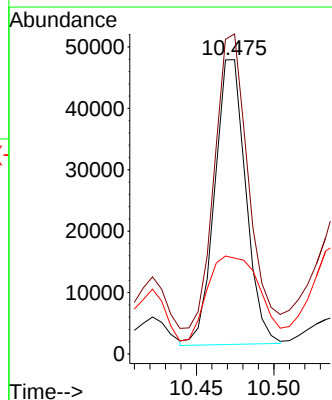
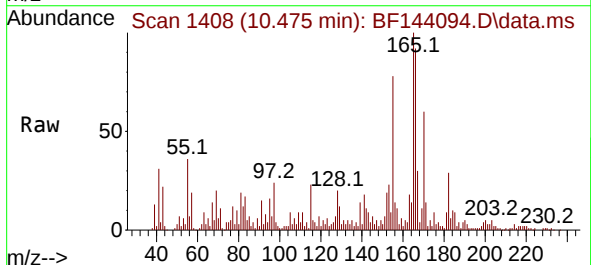
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01

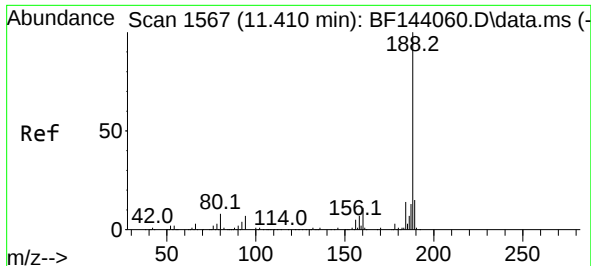
Tgt Ion:154 Resp: 22466
Ion Ratio Lower Upper
154 100
153 134.0 89.9 134.9
152 90.9 42.0 63.0#



#58
Fluorene
Concen: 14.048 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:166 Resp: 64771
Ion Ratio Lower Upper
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165 108.8 77.0 115.4
167 32.6 10.2 15.4#

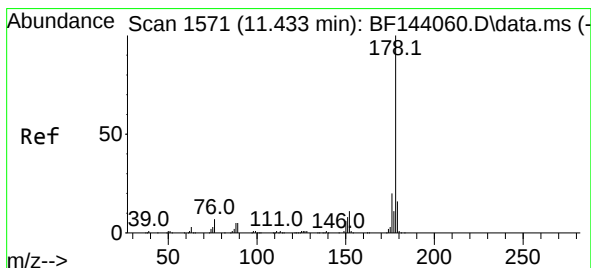
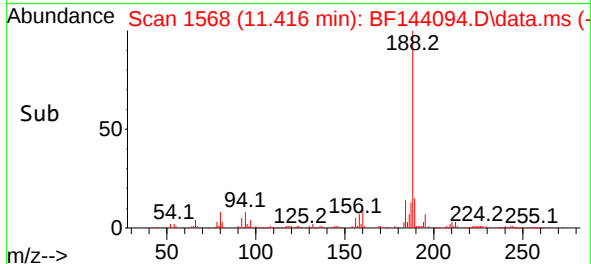
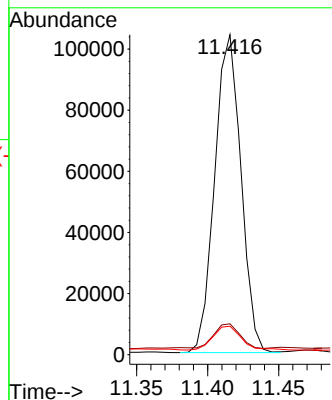
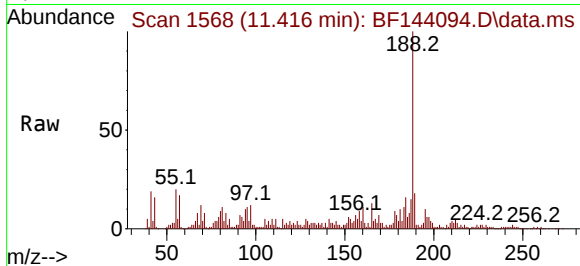




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1567
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

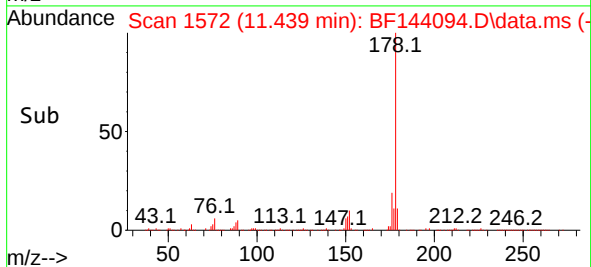
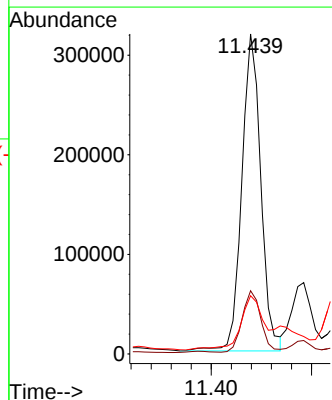
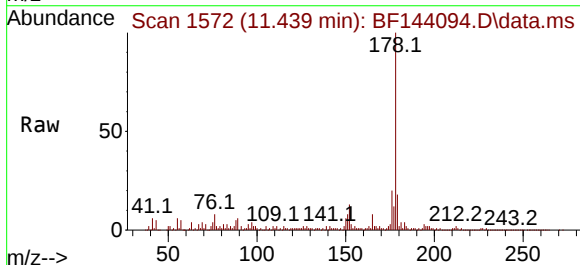
Instrument :
BNA_F
ClientSampleId :
P001-TW1-251023-01

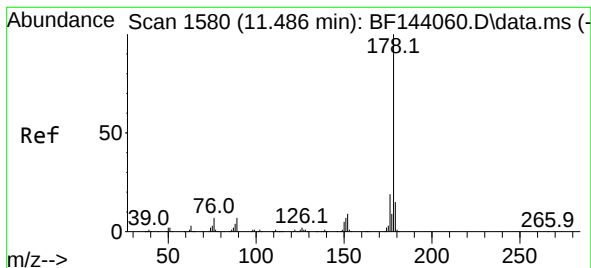
Tgt Ion:188 Resp: 133890
Ion Ratio Lower Upper
188 100
94 9.6 5.4 8.0#
80 8.9 6.0 9.0



#71
Phenanthrene
Concen: 63.248 ng
RT: 11.439 min Scan# 1572
Delta R.T. 0.006 min
Lab File: BF144094.D
Acq: 27 Oct 2025 20:32

Tgt Ion:178 Resp: 420665
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 18.2 12.6 18.8





#72

Anthracene

Concen: 9.661 ng

RT: 11.492 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01

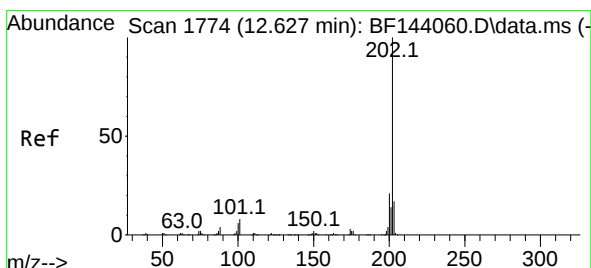
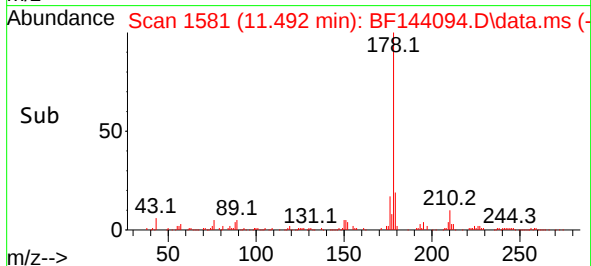
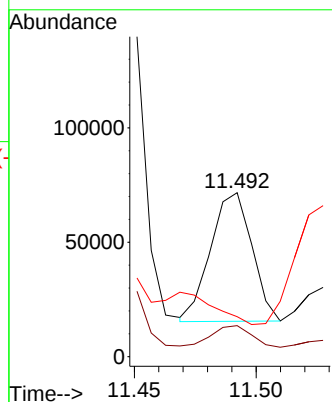
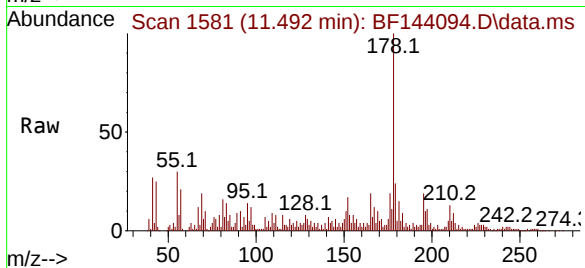
Tgt Ion:178 Resp: 66380

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 24.4 11.8 17.6#



#75

Fluoranthene

Concen: 8.760 ng

RT: 12.639 min Scan# 1776

Delta R.T. 0.012 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

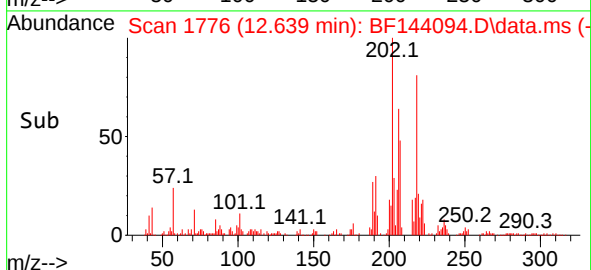
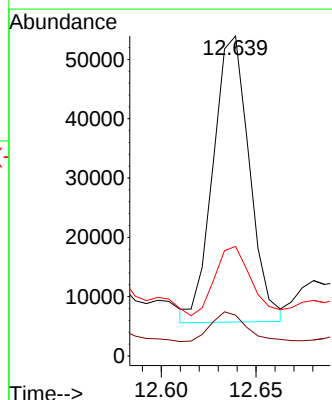
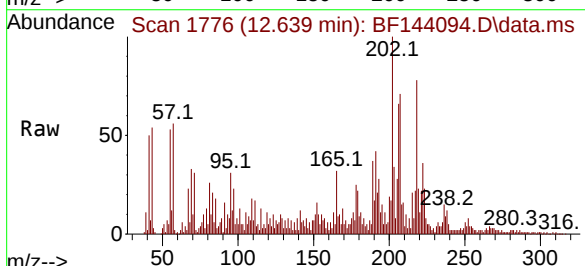
Tgt Ion:202 Resp: 64367

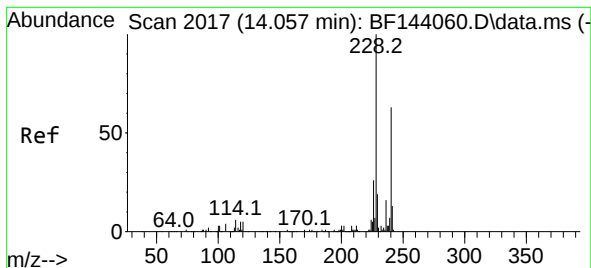
Ion Ratio Lower Upper

202 100

101 12.7 0.0 27.7

203 34.3 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01

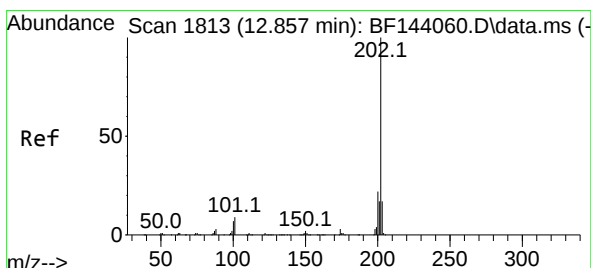
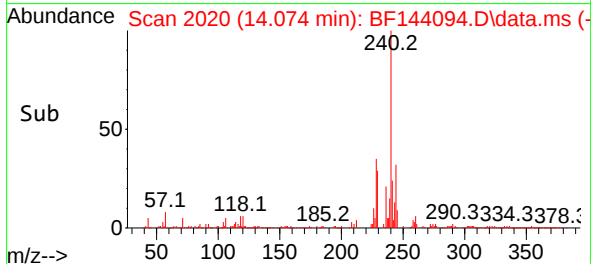
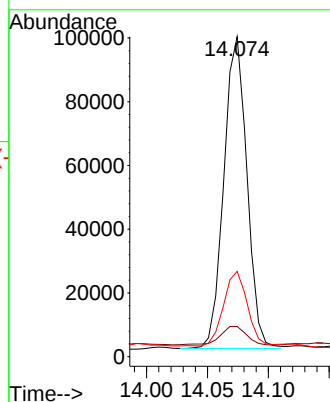
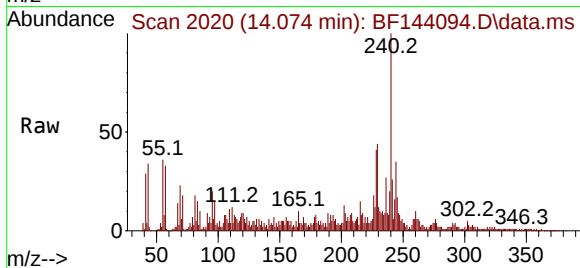
Tgt Ion:240 Resp: 129098

Ion Ratio Lower Upper

240 100

120 9.5 6.5 9.7

236 26.7 20.1 30.1



#78

Pyrene

Concen: 42.199 ng

RT: 12.869 min Scan# 1815

Delta R.T. 0.012 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

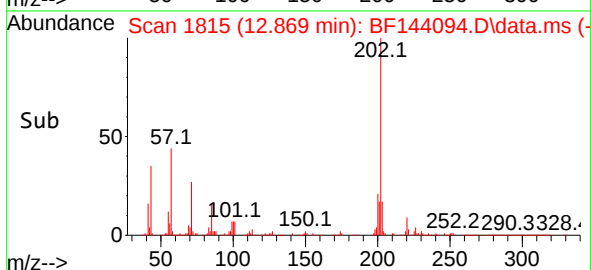
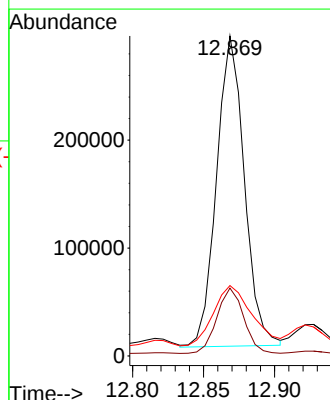
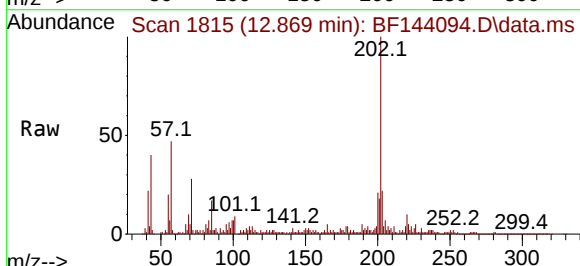
Tgt Ion:202 Resp: 391662

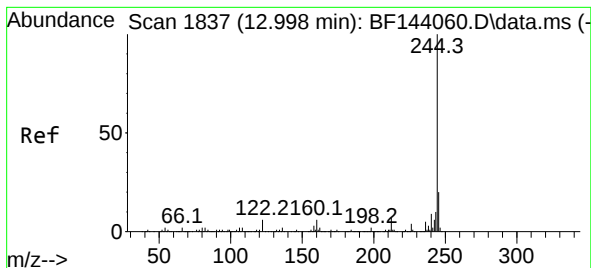
Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

203 22.0 13.5 20.3#





#79

Terphenyl-d14

Concen: 17.089 ng

RT: 13.004 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01

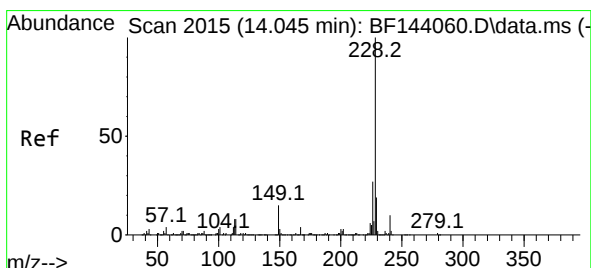
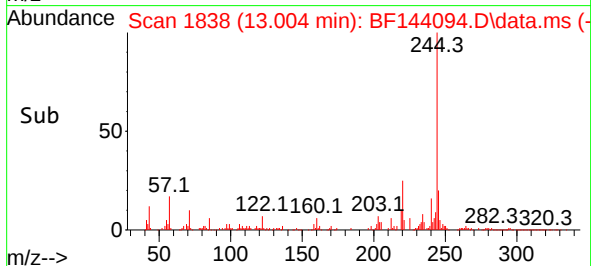
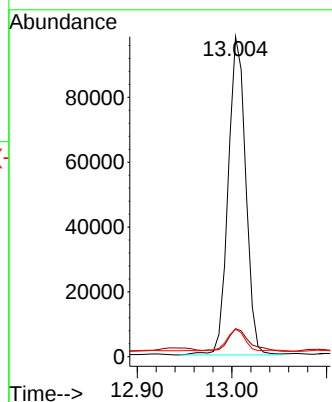
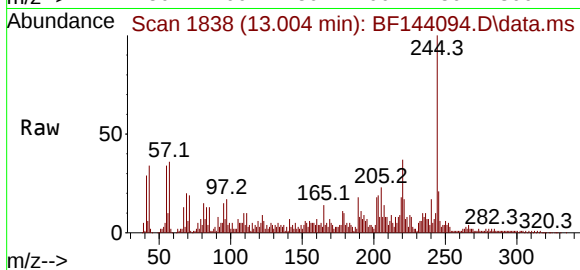
Tgt Ion:244 Resp: 126191

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.6#

122 8.6 4.9 7.3#



#81

Benzo(a)anthracene

Concen: 9.905 ng

RT: 14.063 min Scan# 2018

Delta R.T. 0.018 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

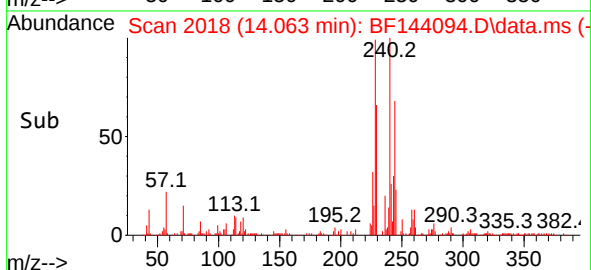
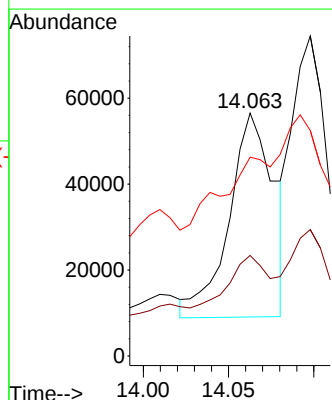
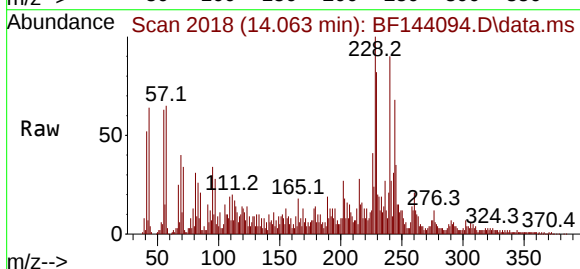
Tgt Ion:228 Resp: 86420

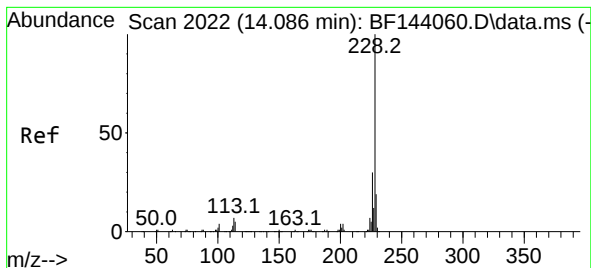
Ion Ratio Lower Upper

228 100

226 41.4 21.4 32.2#

229 81.8 15.3 22.9#





#83

Chrysene

Concen: 12.935 ng

RT: 14.098 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01

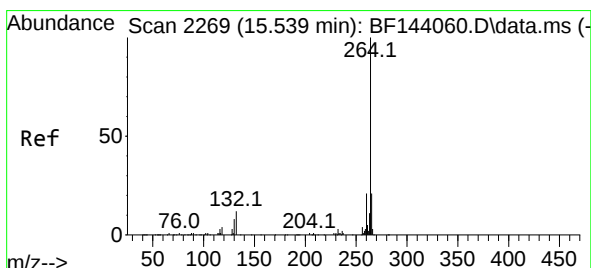
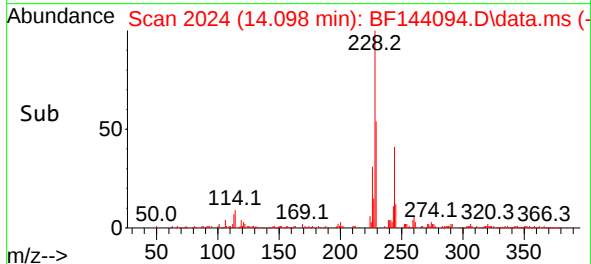
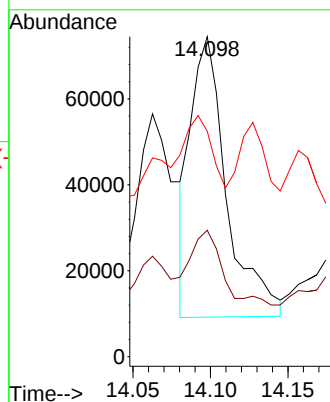
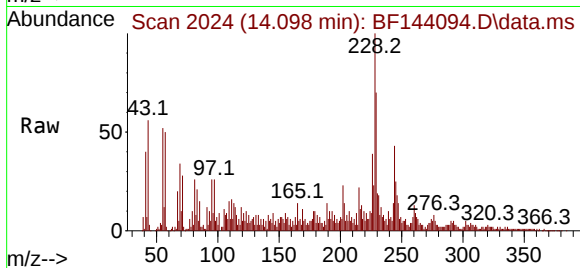
Tgt Ion:228 Resp: 105898

Ion Ratio Lower Upper

228 100

226 39.5 23.8 35.6#

229 70.5 15.6 23.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 2274

Delta R.T. 0.030 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

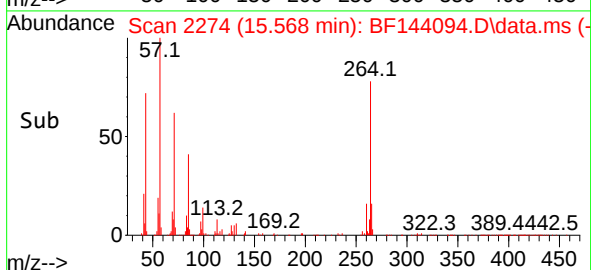
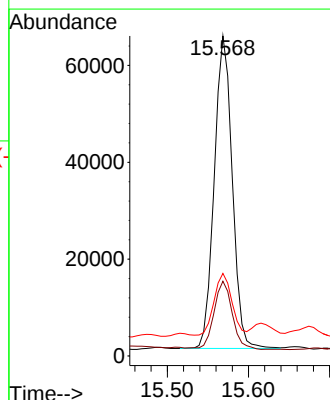
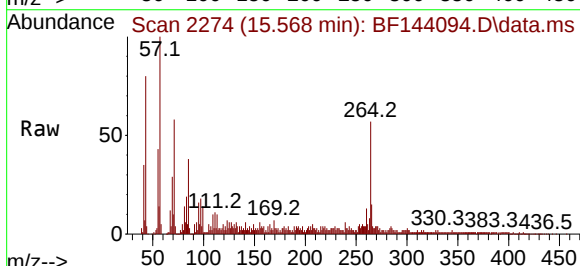
Tgt Ion:264 Resp: 99462

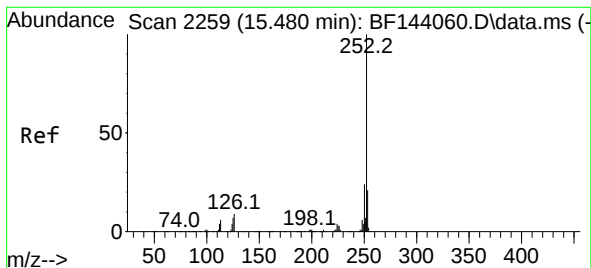
Ion Ratio Lower Upper

264 100

260 23.3 17.0 25.4

265 25.8 16.6 24.8#





#90

Benzo(a)pyrene

Concen: 6.261 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

P001-TW1-251023-01

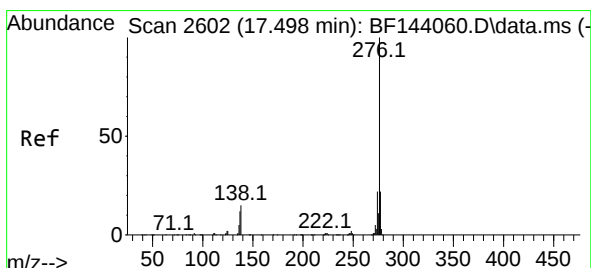
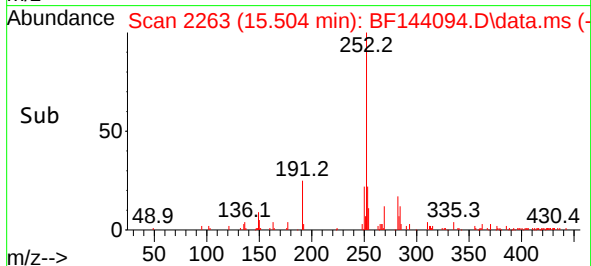
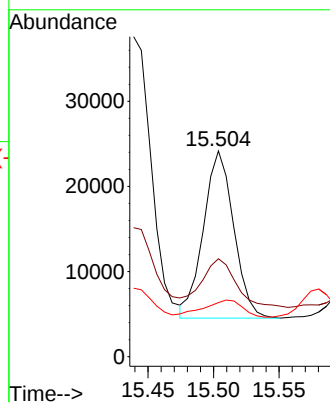
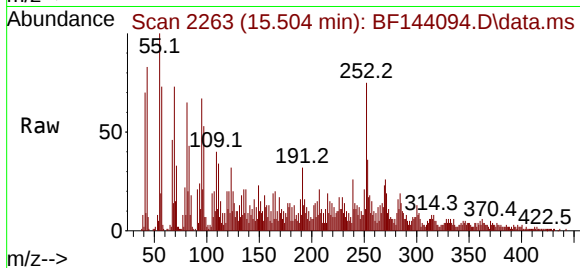
Tgt Ion:252 Resp: 31582

Ion Ratio Lower Upper

252 100

253 47.6 17.1 25.7#

125 26.3 5.4 8.2#



#92

Benzo(g,h,i)perylene

Concen: 4.526 ng

RT: 17.533 min Scan# 2608

Delta R.T. 0.035 min

Lab File: BF144094.D

Acq: 27 Oct 2025 20:32

Tgt Ion:276 Resp: 24598

Ion Ratio Lower Upper

276 100

277 35.6 17.9 26.9#

138 24.4 12.0 18.0#

