

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103025\
 Data File : BF144161.D
 Acq On : 31 Oct 2025 01:39
 Operator : RC/JU
 Sample : Q3486-03 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP4

Quant Time: Oct 31 02:40:23 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

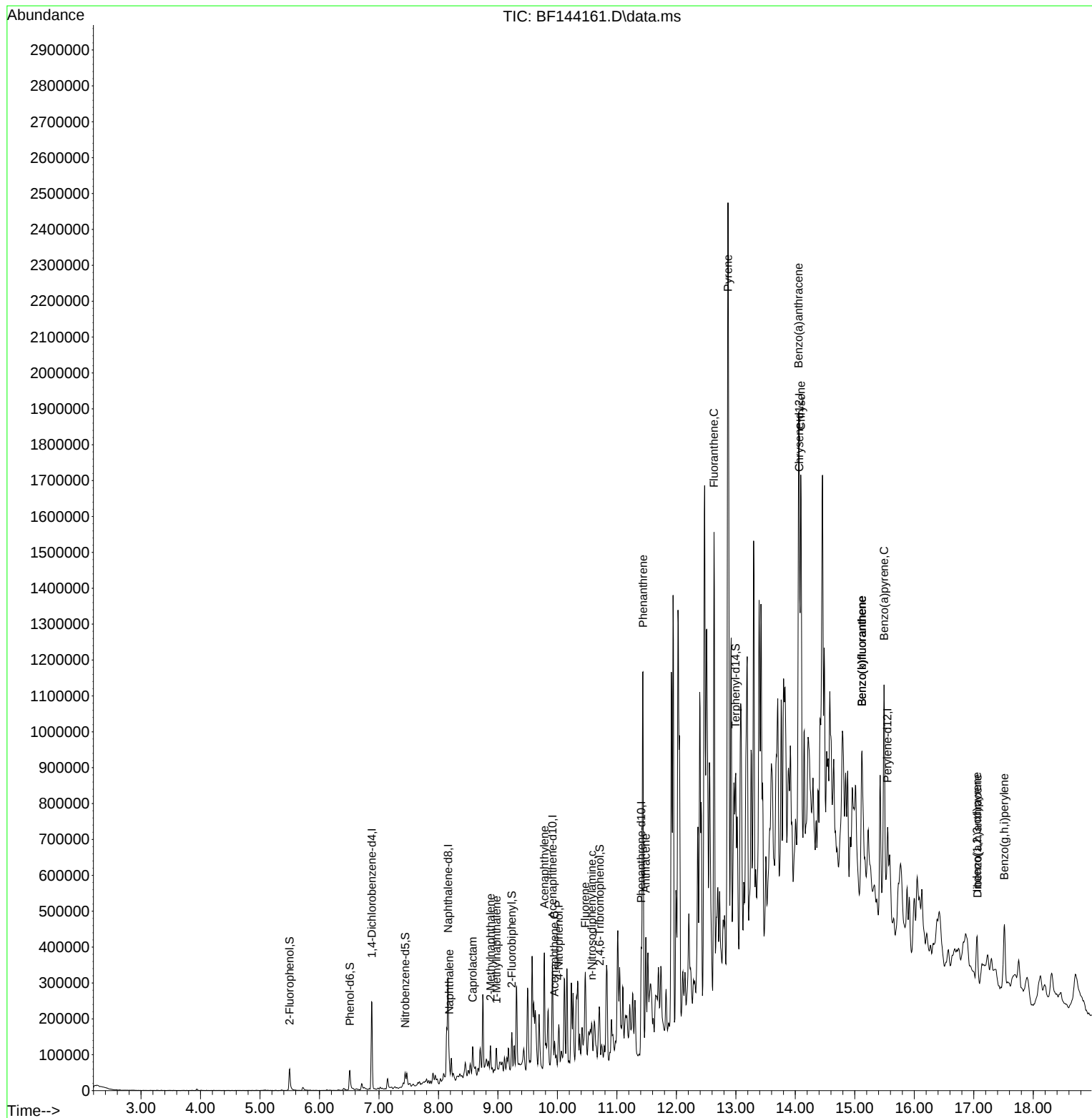
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	55085	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	185920	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	89684	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	158708	20.000	ng	0.00
76) Chrysene-d12	14.068	240	149162	20.000	ng	0.01
86) Perylene-d12	15.551	264	124249	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	30611	8.792	ng	0.00
7) Phenol-d6	6.510	99	33792	8.788	ng	0.00
23) Nitrobenzene-d5	7.439	82	20772	6.121	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	10122	8.860	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	41093	6.448	ng	0.00
79) Terphenyl-d14	12.998	244	47268	5.540	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.181	128	19871	2.265	ng	98
35) Caprolactam	8.575	113	2442	3.300	ng	# 1
37) 2-Methylnaphthalene	8.875	142	28468	4.921	ng	96
38) 1-Methylnaphthalene	8.975	142	25790	4.705	ng	94
49) Acenaphthylene	9.780	152	161662	22.292	ng	99
52) Acenaphthene	9.951	154	15747	3.251	ng	95
56) 4-Nitrophenol	10.022	139	2948	3.369	ng	# 34
58) Fluorene	10.469	166	108019	21.084	ng	# 90
66) n-Nitrosodiphenylamine	10.580	169	27783	5.479	ng	# 81
71) Phenanthrene	11.439	178	628918	79.772	ng	99
72) Anthracene	11.486	178	179238	22.008	ng	97
75) Fluoranthene	12.633	202	672020	77.153	ng	97
78) Pyrene	12.868	202	1245827	116.175	ng	96
81) Benzo(a)anthracene	14.057	228	676182	67.079	ng	# 83
83) Chrysene	14.092	228	608629	64.341	ng	# 90
87) Indeno(1,2,3-cd)pyrene	17.056	276	112417	13.178	ng	95
88) Benzo(b)fluoranthene	15.121	252	452639	64.440	ng	# 96
89) Benzo(k)fluoranthene	15.121	252	452639	69.844	ng	# 96
90) Benzo(a)pyrene	15.492	252	376407	59.732	ng	# 95
91) Dibenzo(a,h)anthracene	17.062	278	43646	6.464	ng	# 70
92) Benzo(g,h,i)perylene	17.515	276	177120	26.090	ng	97

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

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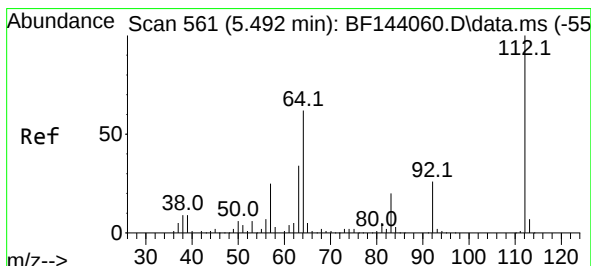
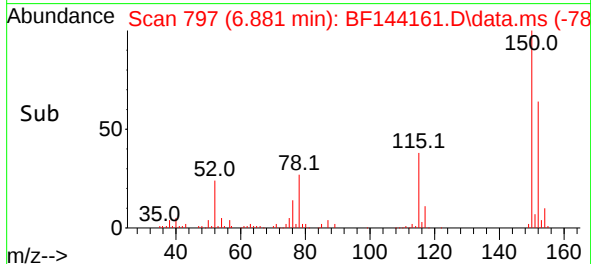
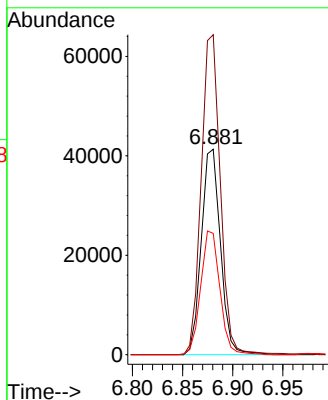
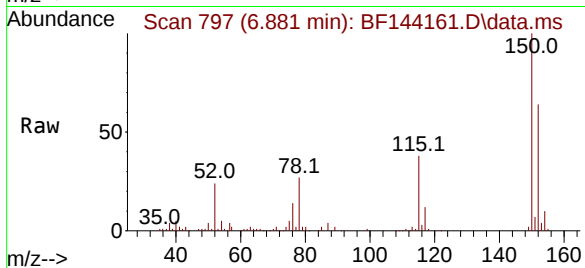




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

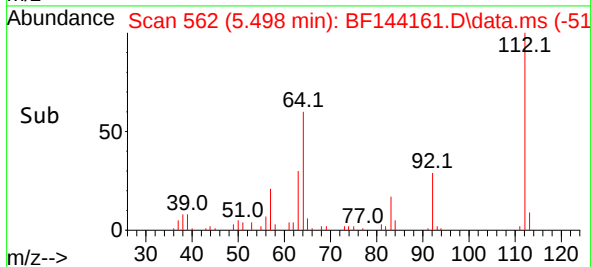
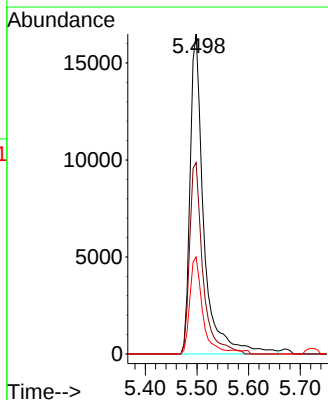
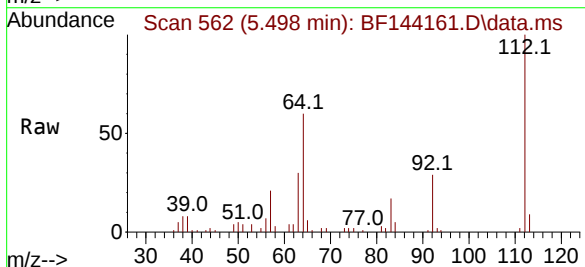
Instrument :
BNA_F
ClientSampleId :
TP4

Tgt Ion:152 Resp: 55085
Ion Ratio Lower Upper
152 100
150 155.8 124.4 186.6
115 59.0 49.4 74.0



#5
2-Fluorophenol
Concen: 8.792 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:112 Resp: 30611
Ion Ratio Lower Upper
112 100
64 59.8 49.8 74.8
63 30.4 27.4 41.2

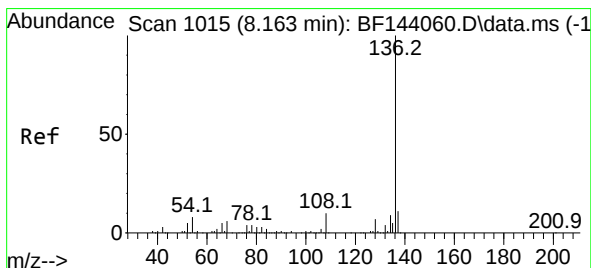
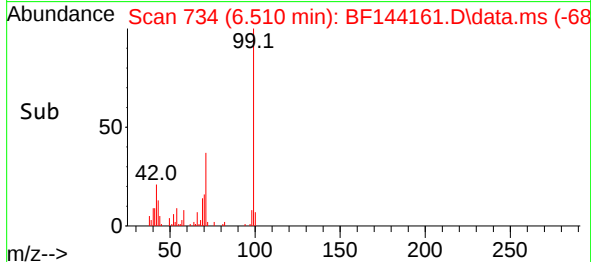
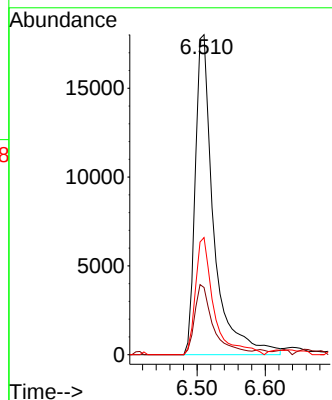
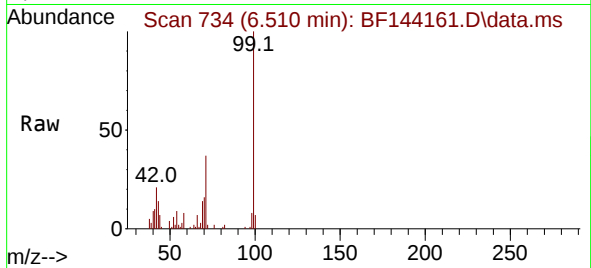




#7
Phenol-d6
Concen: 8.788 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

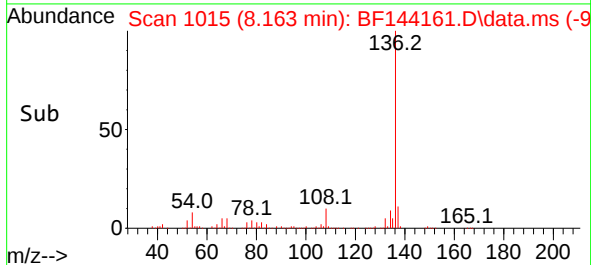
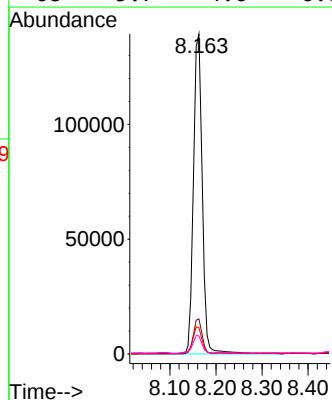
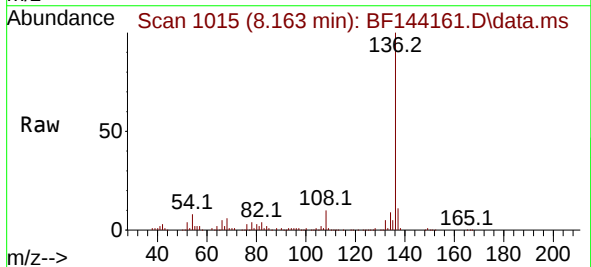
Instrument :
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ClientSampleId :
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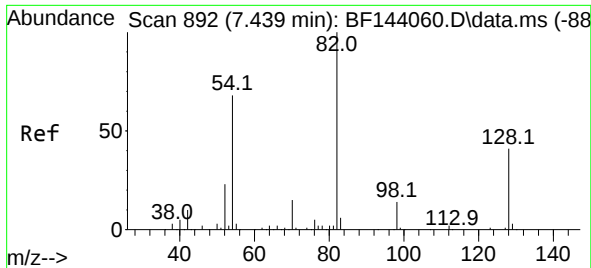
Tgt Ion: 99 Resp: 33792
Ion Ratio Lower Upper
99 100
42 21.0 23.9 35.9#
71 36.6 34.4 51.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion: 136 Resp: 185920
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.3 6.6 9.8
68 5.7 4.6 6.8

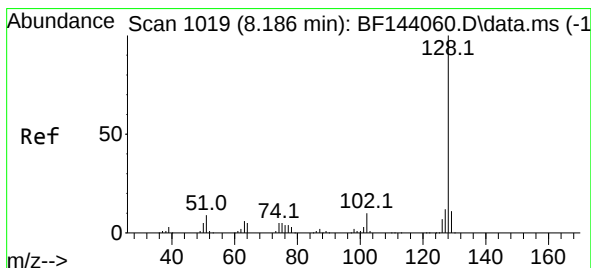
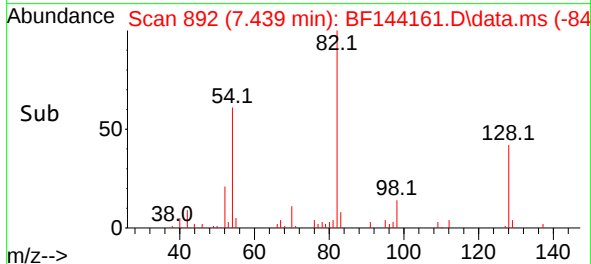
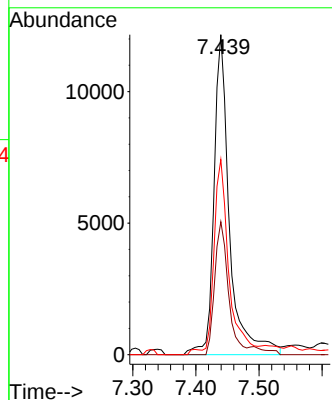
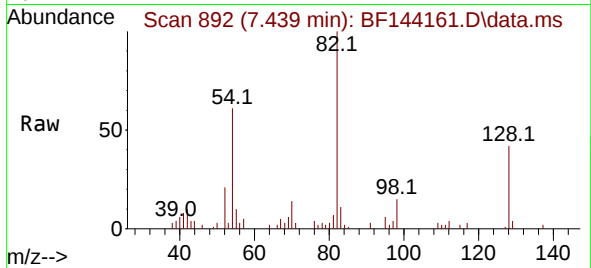




#23
 Nitrobenzene-d5
 Concen: 6.121 ng
 RT: 7.439 min Scan# 892
 Delta R.T. -0.000 min
 Lab File: BF144161.D
 Acq: 31 Oct 2025 01:39

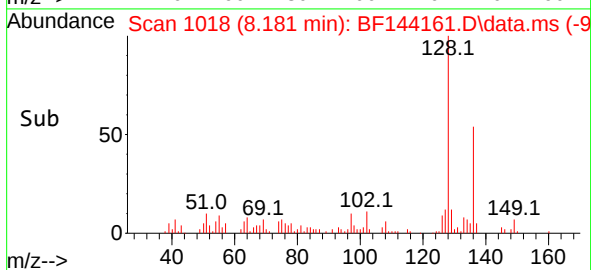
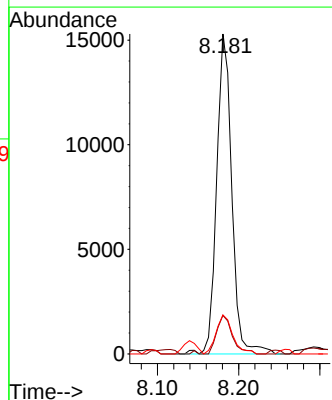
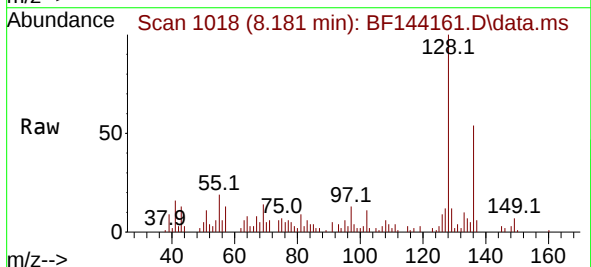
Instrument :
 BNA_F
 ClientSampleId :
 TP4

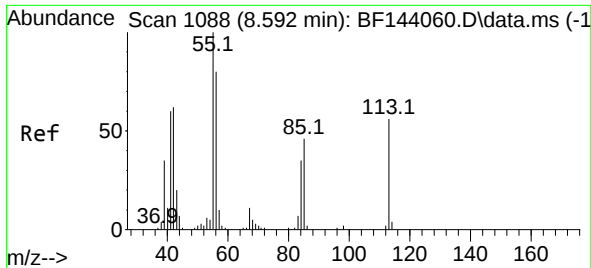
Tgt Ion:	82	Resp:	20772
Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.4	48.6
54	61.0	54.0	81.0



#31
 Naphthalene
 Concen: 2.265 ng
 RT: 8.181 min Scan# 1018
 Delta R.T. -0.006 min
 Lab File: BF144161.D
 Acq: 31 Oct 2025 01:39

Tgt Ion:	128	Resp:	19871
Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.4	12.6
127	12.2	9.9	14.9

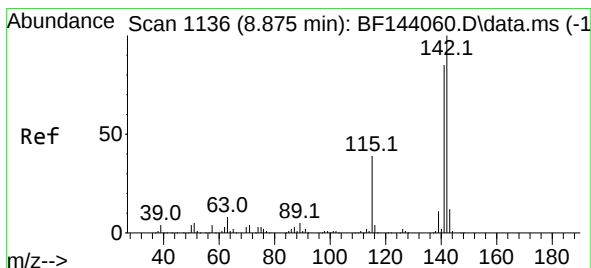
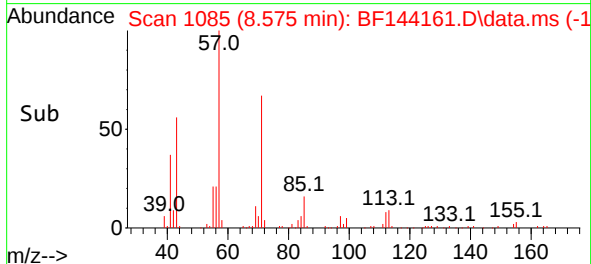
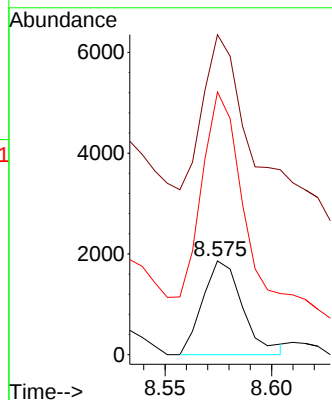
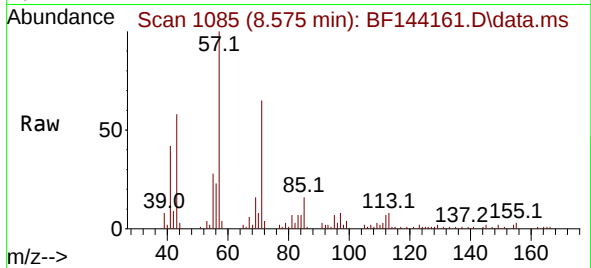




#35
 Caprolactam
 Concen: 3.300 ng
 RT: 8.575 min Scan# 1085
 Delta R.T. -0.018 min
 Lab File: BF144161.D
 Acq: 31 Oct 2025 01:39

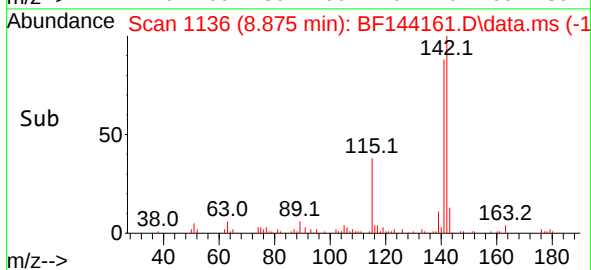
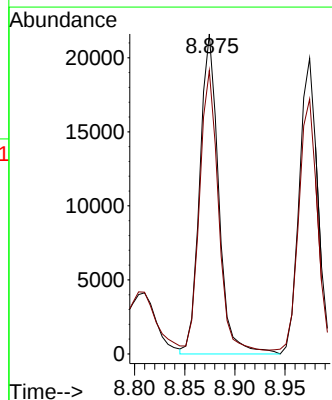
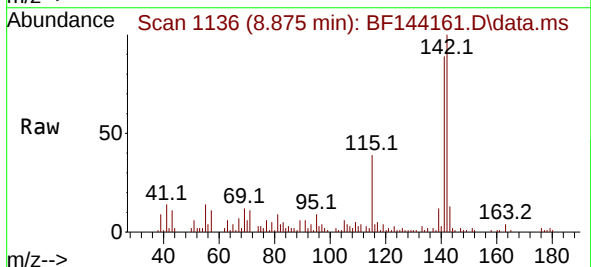
Instrument :
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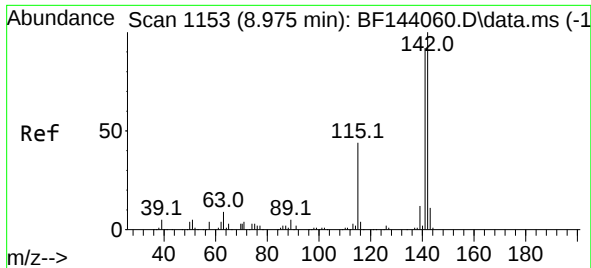
Tgt Ion:113 Resp: 2442
 Ion Ratio Lower Upper
 113 100
 55 341.3 160.1 200.1#
 56 280.2 124.9 164.9#



#37
 2-Methylnaphthalene
 Concen: 4.921 ng
 RT: 8.875 min Scan# 1136
 Delta R.T. -0.000 min
 Lab File: BF144161.D
 Acq: 31 Oct 2025 01:39

Tgt Ion:142 Resp: 28468
 Ion Ratio Lower Upper
 142 100
 141 88.6 67.6 101.4

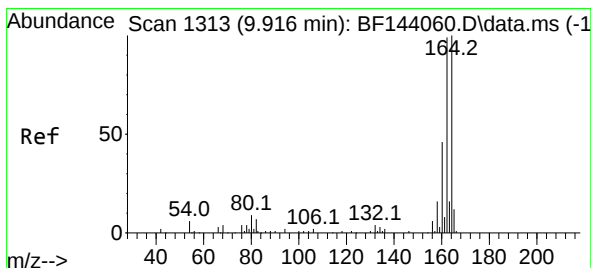
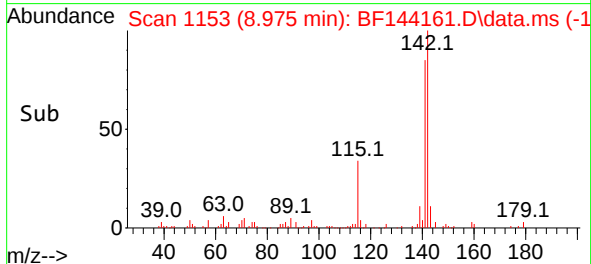
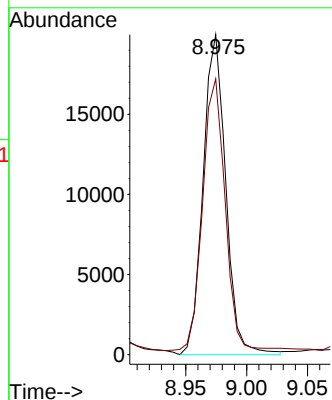
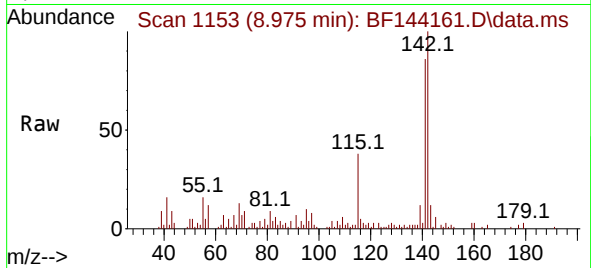




#38
1-Methylnaphthalene
Concen: 4.705 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

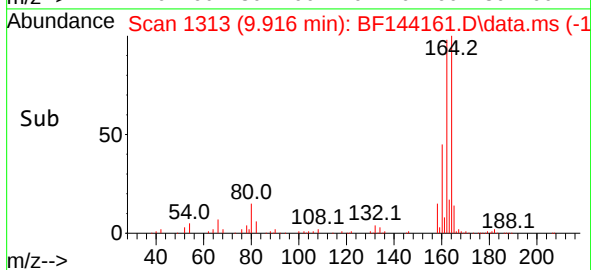
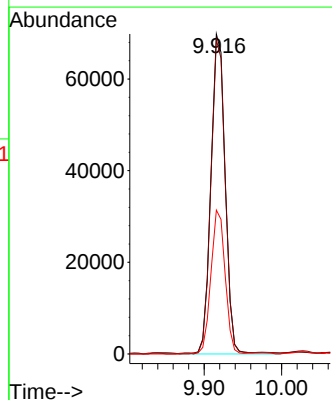
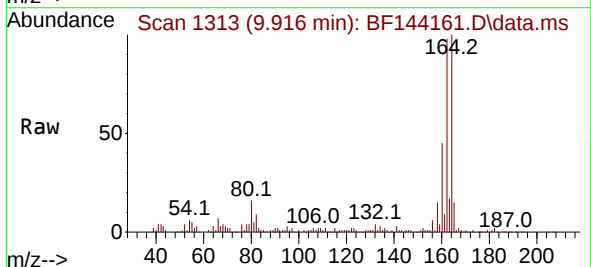
Instrument :
BNA_F
ClientSampleId :
TP4

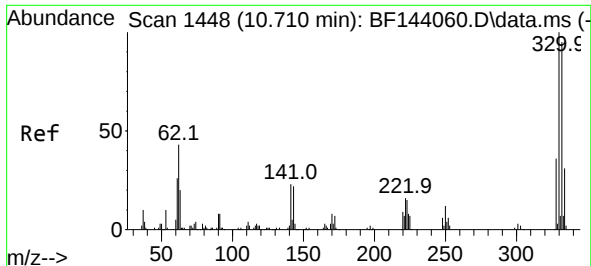
Tgt Ion:142 Resp: 25790
Ion Ratio Lower Upper
142 100
141 86.2 73.4 110.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:164 Resp: 89684
Ion Ratio Lower Upper
164 100
162 98.2 79.4 119.2
160 45.0 36.7 55.1





#42

2,4,6-Tribromophenol

Concen: 8.860 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.000 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

Instrument :

BNA_F

ClientSampleId :

TP4

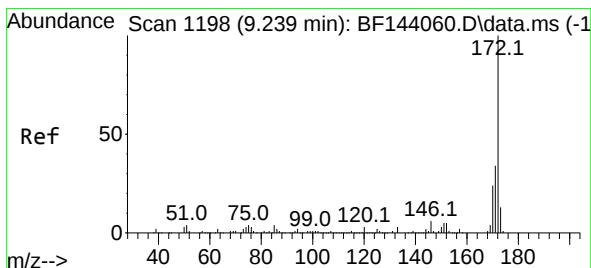
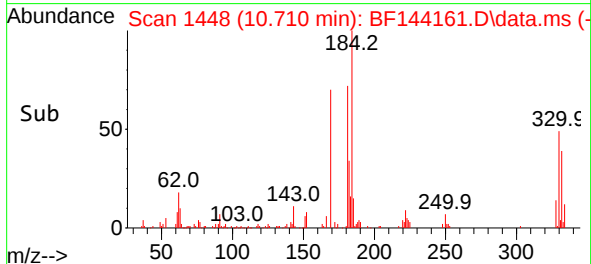
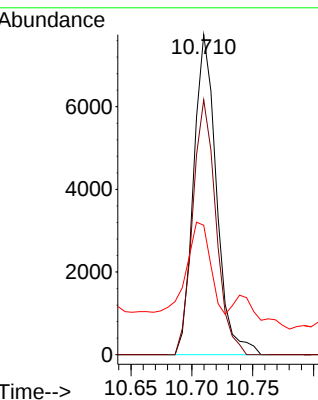
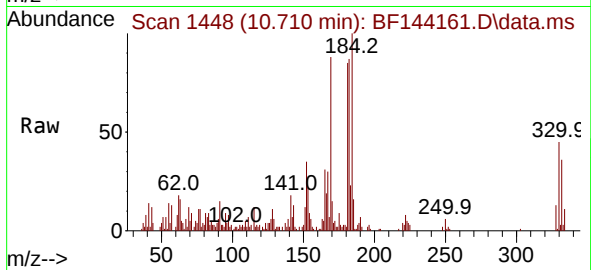
Tgt Ion:330 Resp: 10122

Ion Ratio Lower Upper

330 100

332 80.7 77.0 115.6

141 29.5 19.4 29.0#



#45

2-Fluorobiphenyl

Concen: 6.448 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.006 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

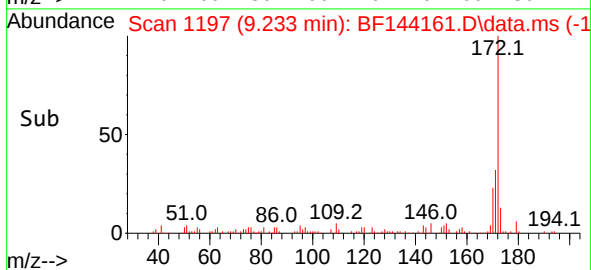
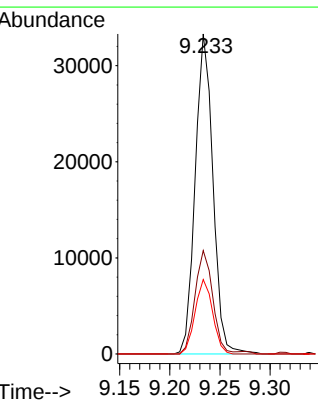
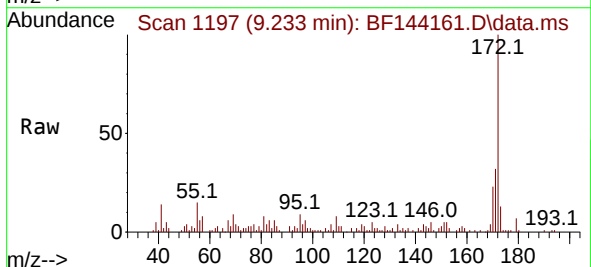
Tgt Ion:172 Resp: 41093

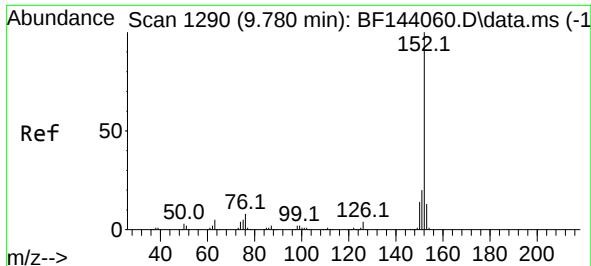
Ion Ratio Lower Upper

172 100

171 32.3 27.5 41.3

170 23.3 19.0 28.6

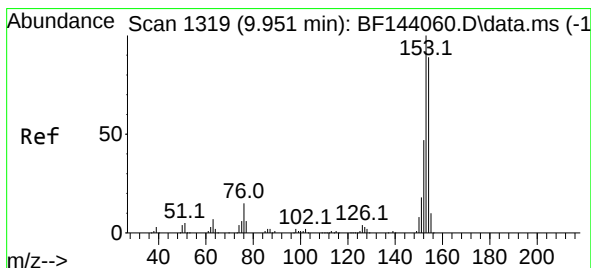
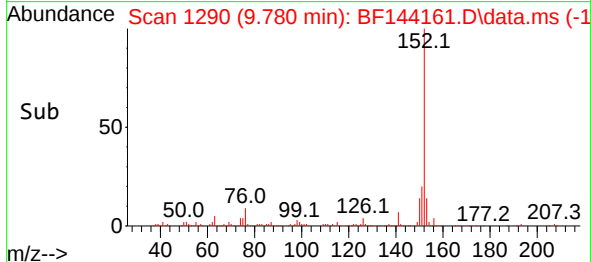
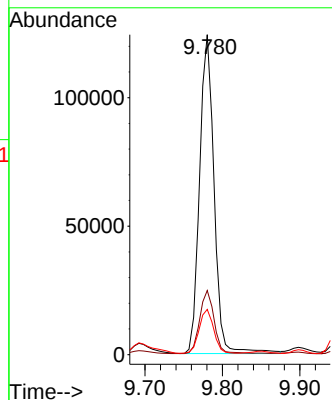
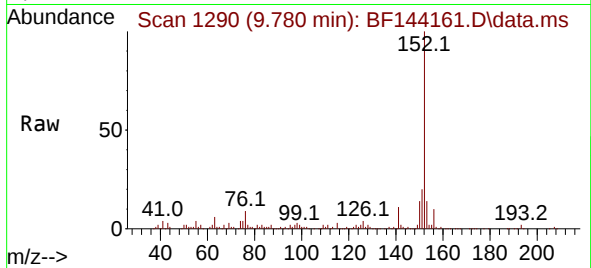




#49
Acenaphthylene
Concen: 22.292 ng
RT: 9.780 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

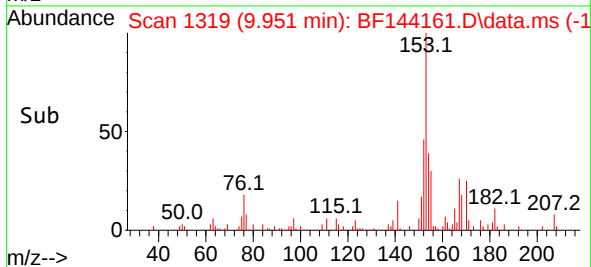
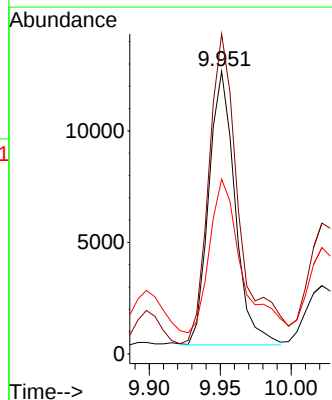
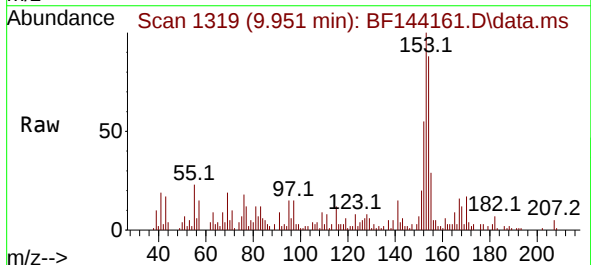
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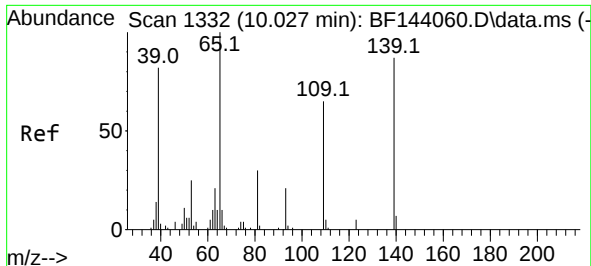
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Ion Ratio Lower Upper
152 100
151 20.1 15.9 23.9
153 14.2 10.4 15.6



#52
Acenaphthene
Concen: 3.251 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:154 Resp: 15747
Ion Ratio Lower Upper
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153 113.2 89.9 134.9
152 61.9 42.0 63.0

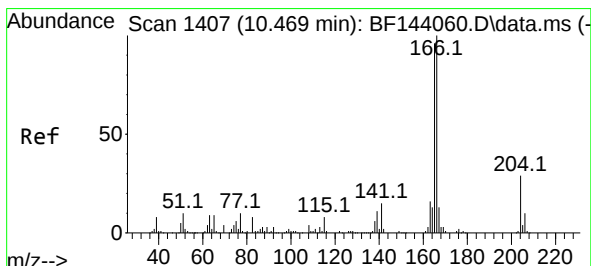
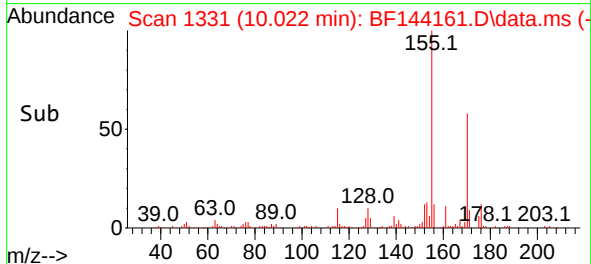
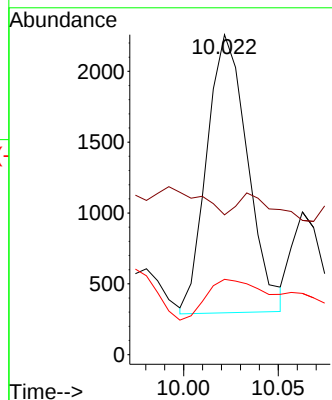
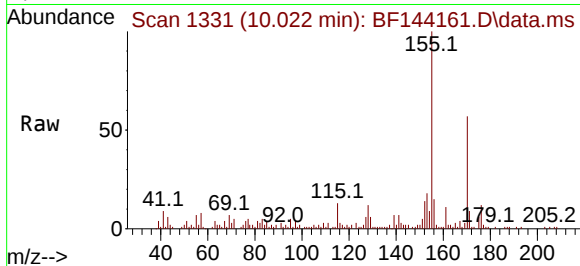




#56
4-Nitrophenol
Concen: 3.369 ng
RT: 10.022 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

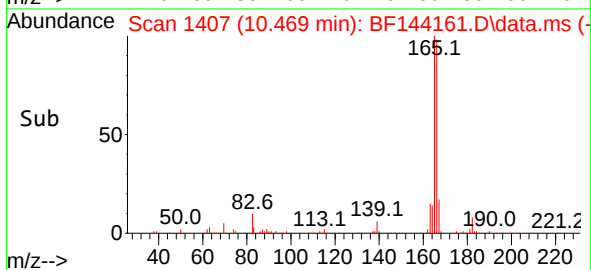
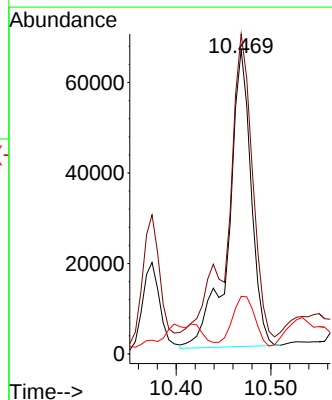
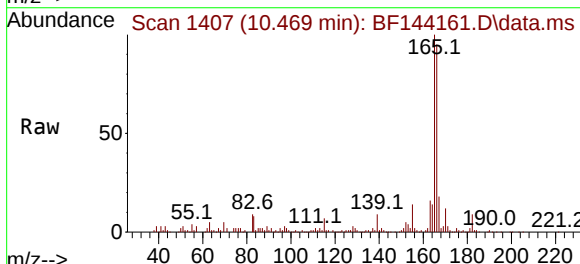
Instrument :
BNA_F
ClientSampleId :
TP4

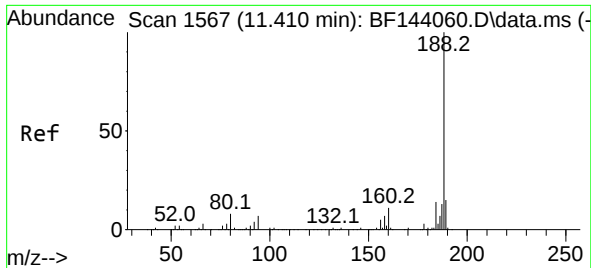
Tgt Ion:139 Resp: 2948
Ion Ratio Lower Upper
139 100
109 43.7 53.8 93.8#
65 23.6 95.9 135.9#



#58
Fluorene
Concen: 21.084 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:166 Resp: 108019
Ion Ratio Lower Upper
166 100
165 105.1 77.0 115.4
167 18.9 10.2 15.4#

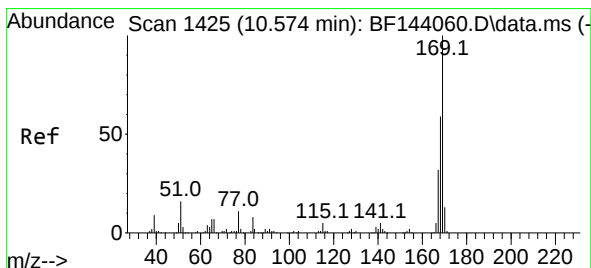
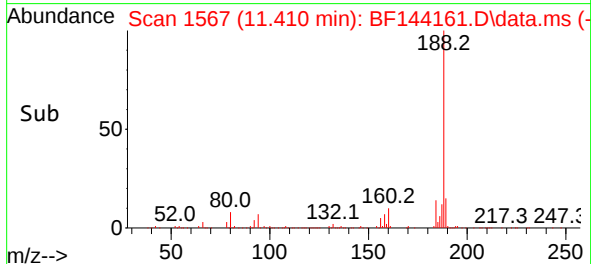
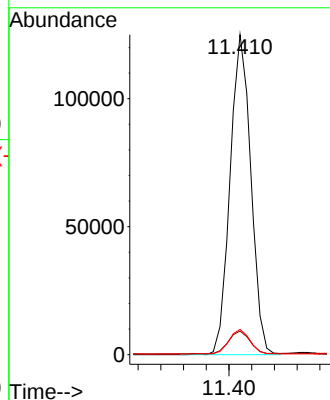
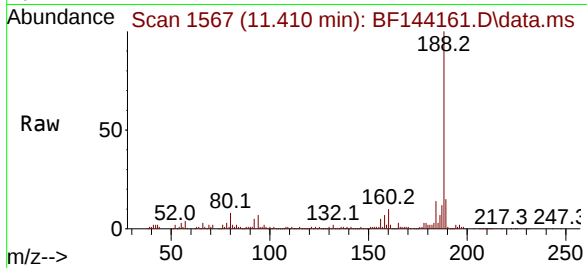




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

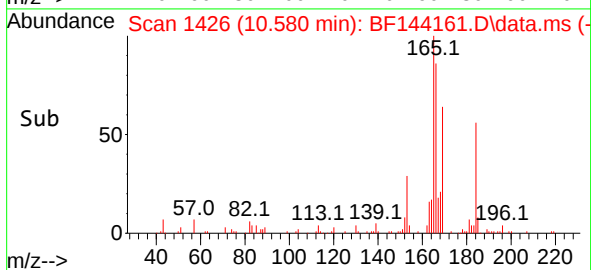
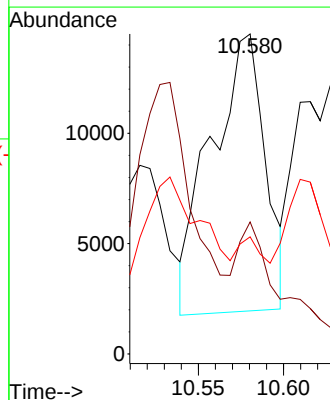
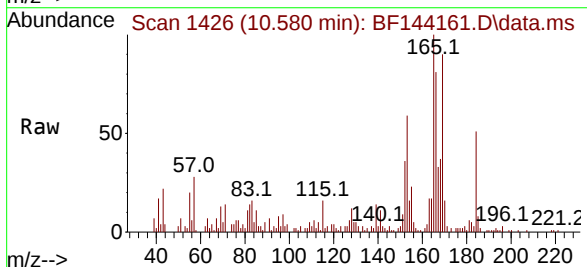
Instrument :
BNA_F
ClientSampleId :
TP4

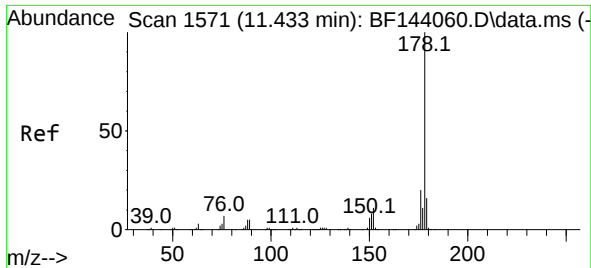
Tgt Ion:188 Resp: 158708
Ion Ratio Lower Upper
188 100
94 7.4 5.4 8.0
80 7.9 6.0 9.0



#66
n-Nitrosodiphenylamine
Concen: 5.479 ng
RT: 10.580 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:169 Resp: 27783
Ion Ratio Lower Upper
169 100
168 41.3 47.4 71.2#
167 36.6 25.5 38.3

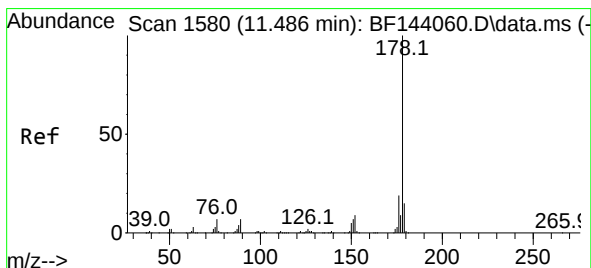
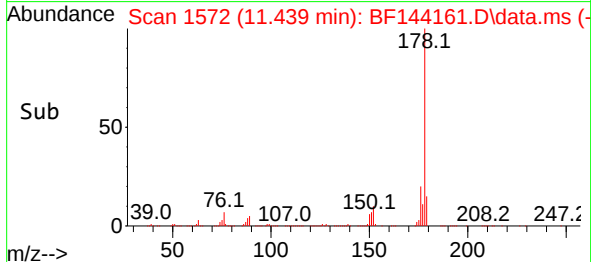
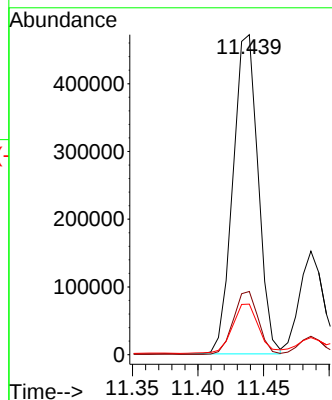
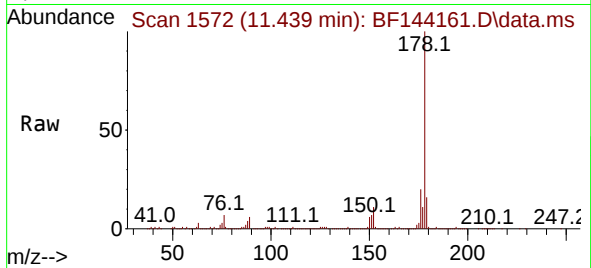




#71
Phenanthrene
Concen: 79.772 ng
RT: 11.439 min Scan# 1571
Delta R.T. 0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

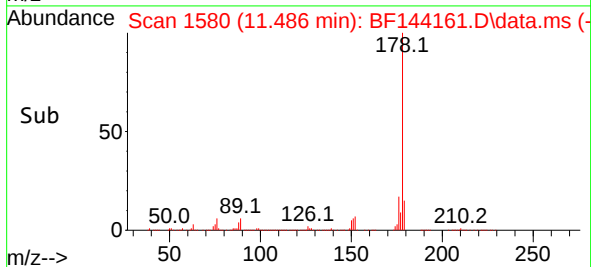
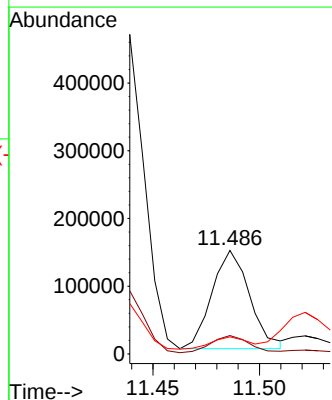
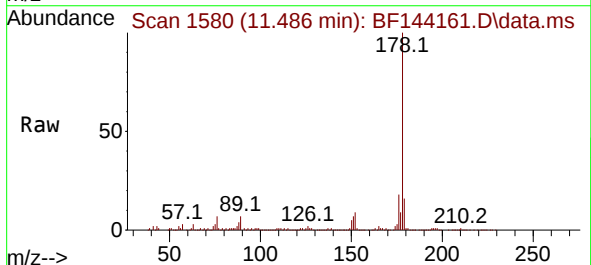
Instrument :
BNA_F
ClientSampleId :
TP4

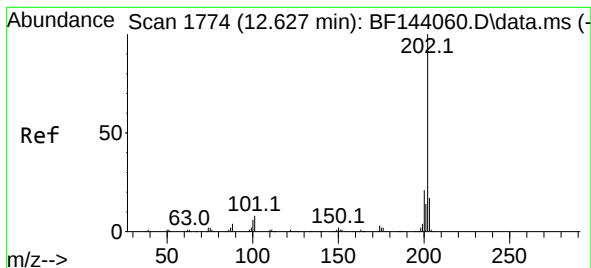
Tgt Ion:178 Resp: 628918
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.8 12.6 18.8



#72
Anthracene
Concen: 22.008 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:178 Resp: 179238
Ion Ratio Lower Upper
178 100
176 17.8 15.0 22.4
179 16.5 11.8 17.6





#75

Fluoranthene

Concen: 77.153 ng

RT: 12.633 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

Instrument :

BNA_F

ClientSampleId :

TP4

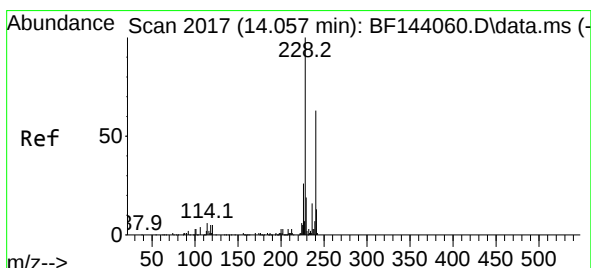
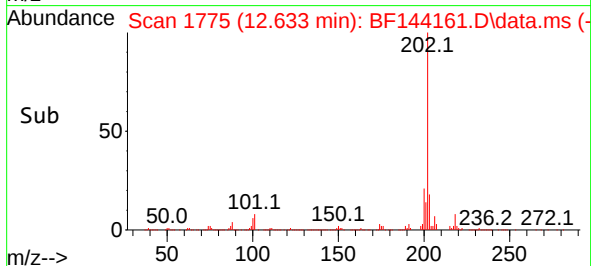
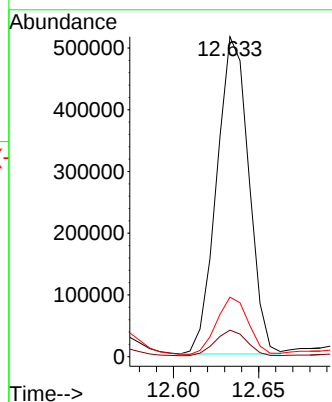
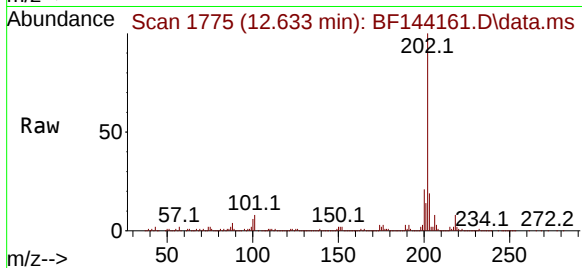
Tgt Ion:202 Resp: 672020

Ion Ratio Lower Upper

202 100

101 8.3 0.0 27.7

203 18.6 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. 0.012 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

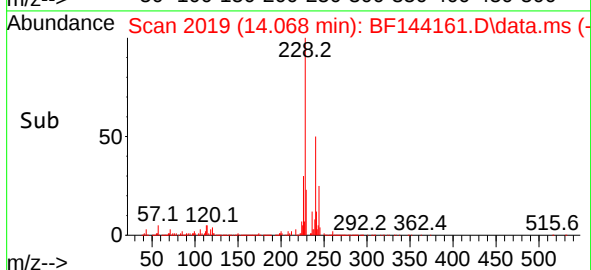
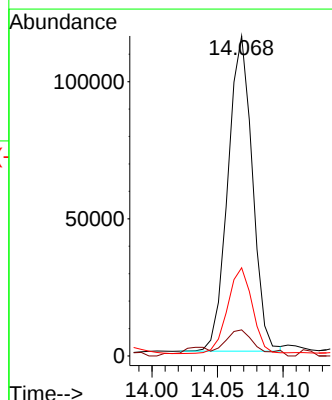
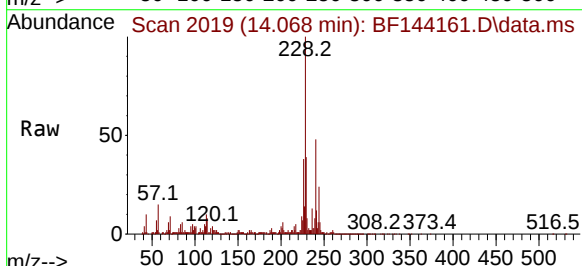
Tgt Ion:240 Resp: 149162

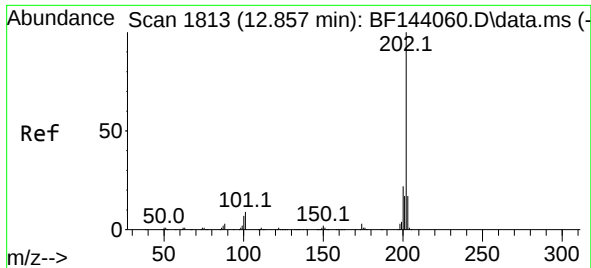
Ion Ratio Lower Upper

240 100

120 8.2 6.5 9.7

236 27.5 20.1 30.1

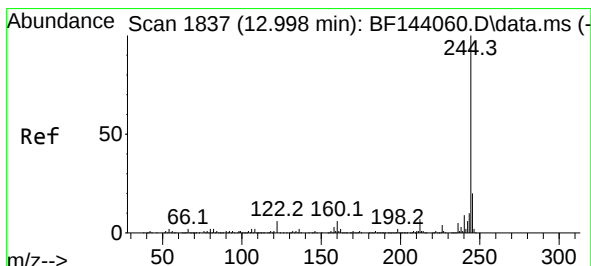
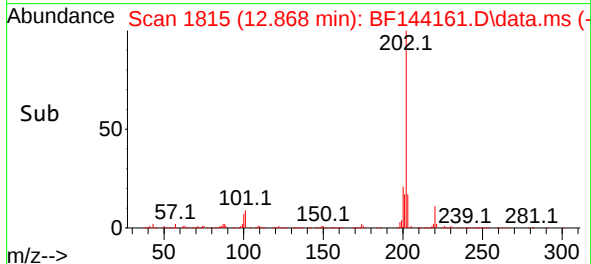
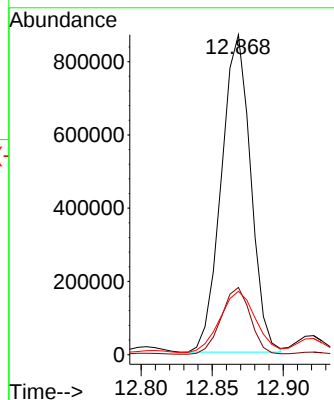
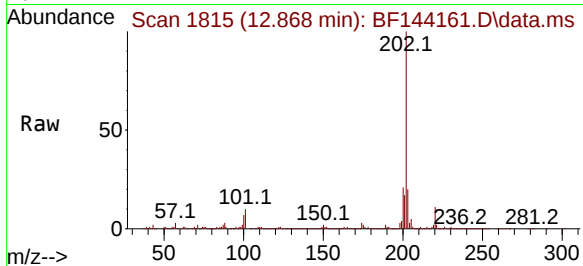




#78
Pyrene
Concen: 116.175 ng
RT: 12.868 min Scan# 1815
Delta R.T. 0.012 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

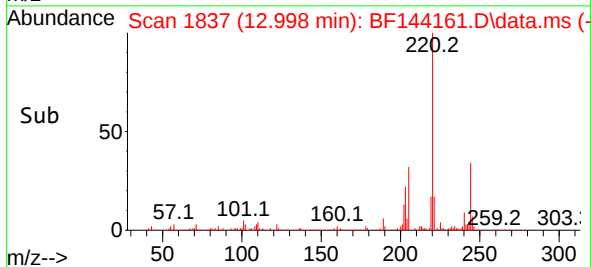
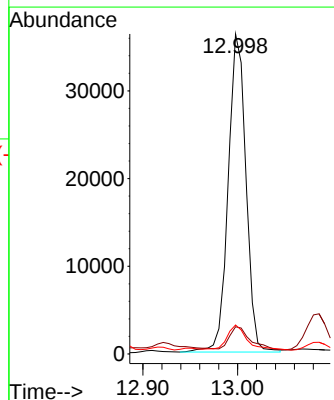
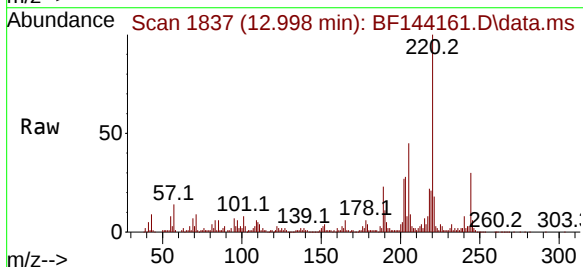
Instrument :
BNA_F
ClientSampleId :
TP4

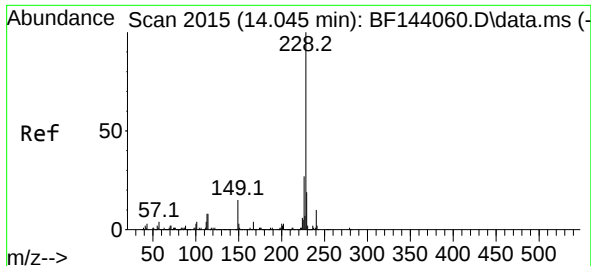
Tgt Ion:202 Resp: 1245827
Ion Ratio Lower Upper
202 100
200 21.0 17.2 25.8
203 19.8 13.5 20.3



#79
Terphenyl-d14
Concen: 5.540 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.000 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:244 Resp: 47268
Ion Ratio Lower Upper
244 100
212 8.5 5.8 8.6
122 9.1 4.9 7.3#

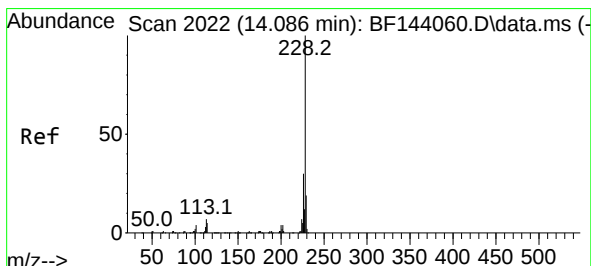
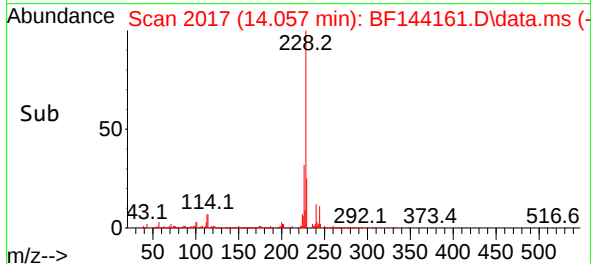
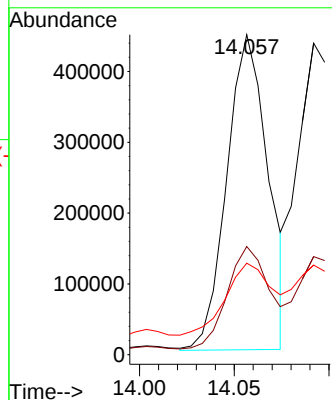
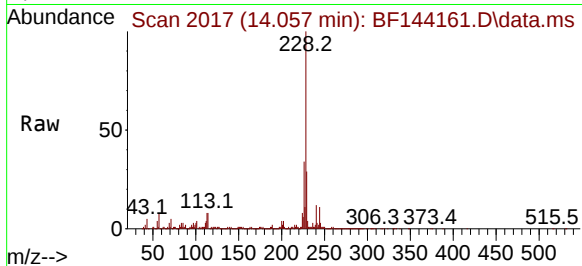




#81
Benzo(a)anthracene
Concen: 67.079 ng
RT: 14.057 min Scan# 2015
Delta R.T. 0.012 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

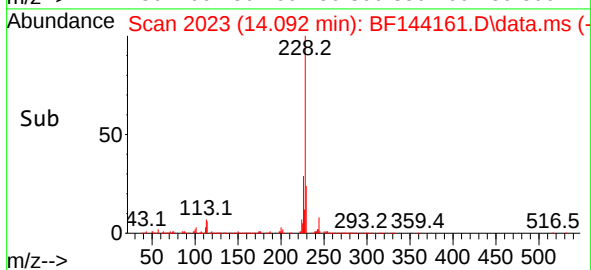
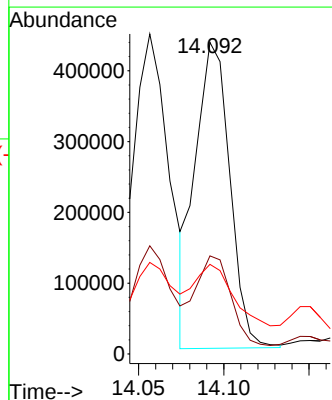
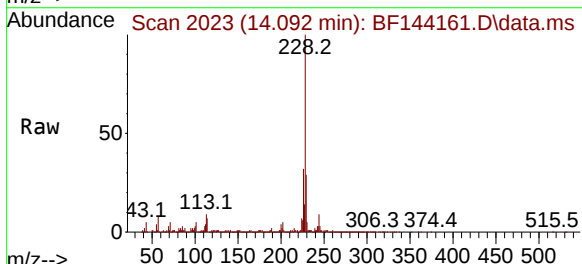
Instrument :
BNA_F
ClientSampleId :
TP4

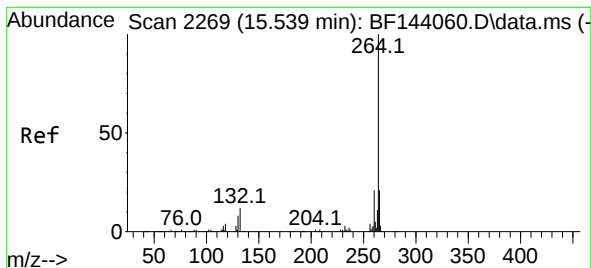
Tgt Ion:228 Resp: 676182
Ion Ratio Lower Upper
228 100
226 33.8 21.4 32.2#
229 28.6 15.3 22.9#



#83
Chrysene
Concen: 64.341 ng
RT: 14.092 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF144161.D
Acq: 31 Oct 2025 01:39

Tgt Ion:228 Resp: 608629
Ion Ratio Lower Upper
228 100
226 31.5 23.8 35.6
229 28.8 15.6 23.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

Instrument :

BNA_F

ClientSampleId :

TP4

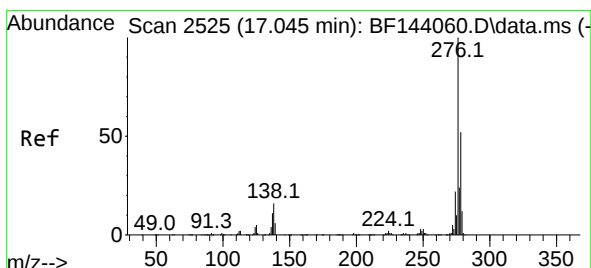
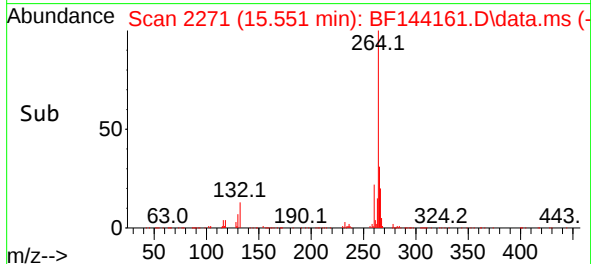
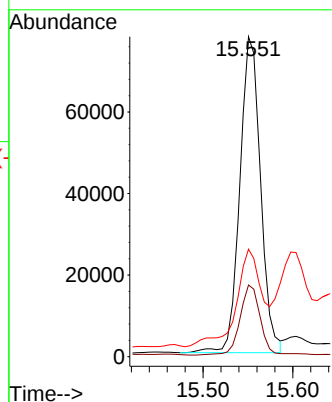
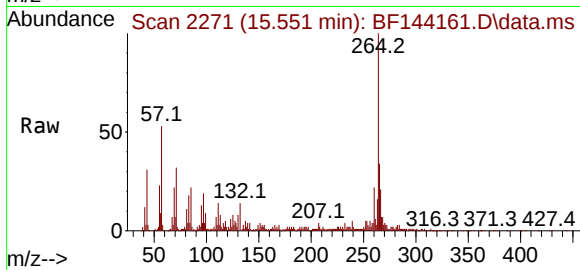
Tgt Ion:264 Resp: 124249

Ion Ratio Lower Upper

264 100

260 22.4 17.0 25.4

265 33.6 16.6 24.8#



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.178 ng

RT: 17.056 min Scan# 2527

Delta R.T. 0.012 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

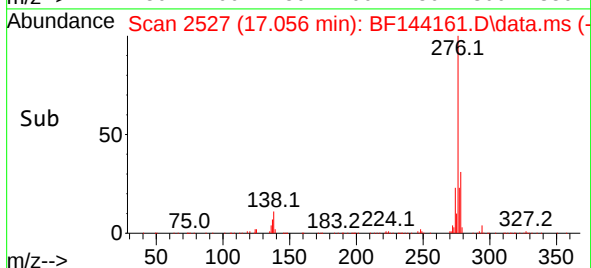
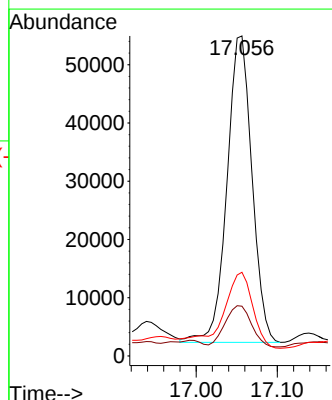
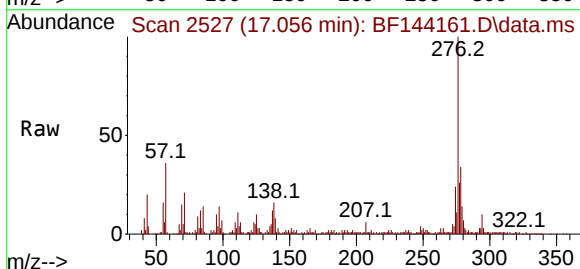
Tgt Ion:276 Resp: 112417

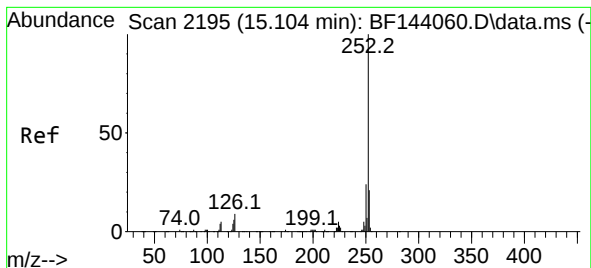
Ion Ratio Lower Upper

276 100

138 14.2 13.0 19.6

277 26.6 19.4 29.0





#88

Benzo(b)fluoranthene

Concen: 64.440 ng

RT: 15.121 min Scan# 2198

Delta R.T. 0.018 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

Instrument :

BNA_F

ClientSampleId :

TP4

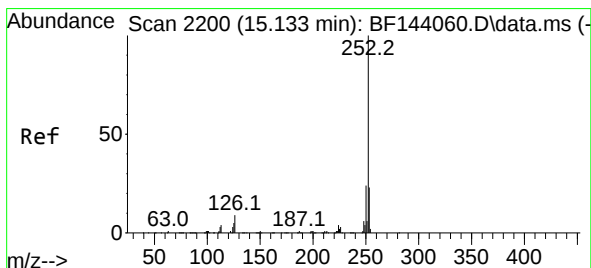
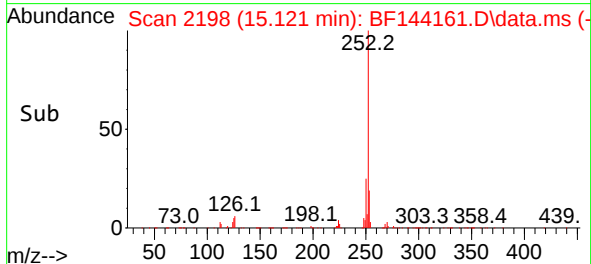
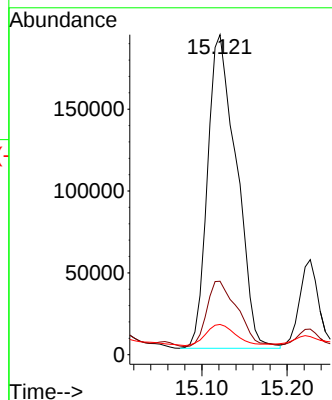
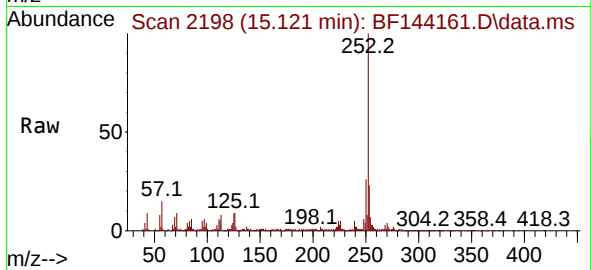
Tgt Ion:252 Resp: 452639

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

125 9.4 5.0 7.6#



#89

Benzo(k)fluoranthene

Concen: 69.844 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

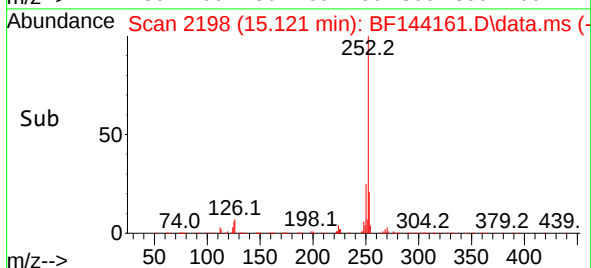
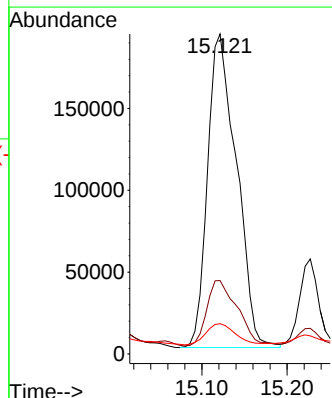
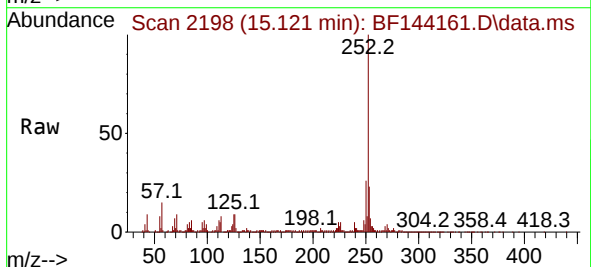
Tgt Ion:252 Resp: 452639

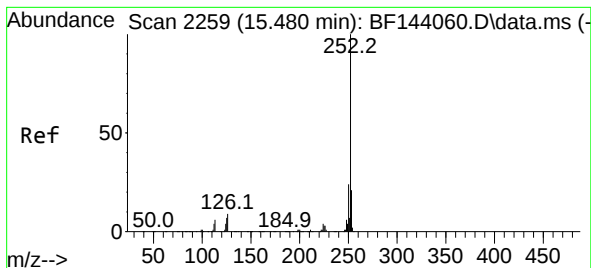
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

125 9.4 4.9 7.3#





#90

Benzo(a)pyrene

Concen: 59.732 ng

RT: 15.492 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

Instrument :

BNA_F

ClientSampleId :

TP4

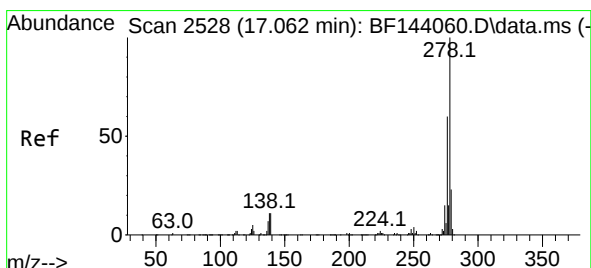
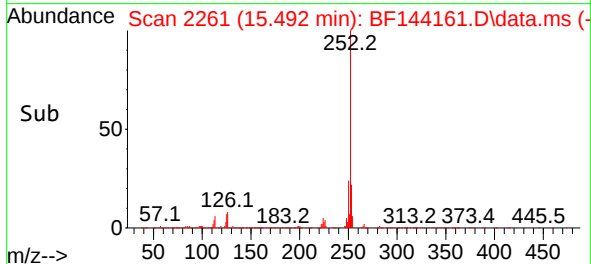
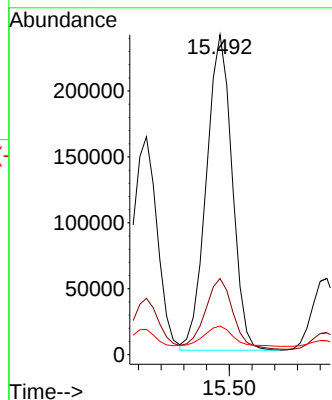
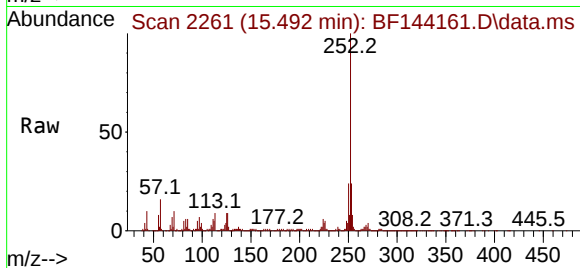
Tgt Ion:252 Resp: 376407

Ion Ratio Lower Upper

252 100

253 23.8 17.1 25.7

125 9.0 5.4 8.2#



#91

Dibenzo(a,h)anthracene

Concen: 6.464 ng

RT: 17.062 min Scan# 2528

Delta R.T. -0.000 min

Lab File: BF144161.D

Acq: 31 Oct 2025 01:39

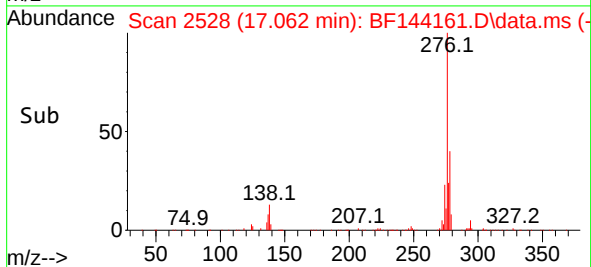
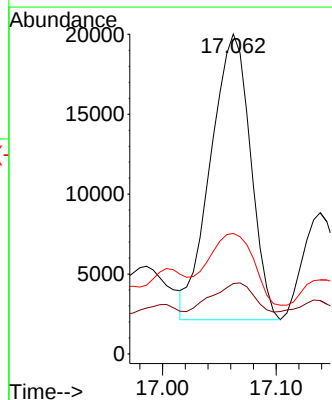
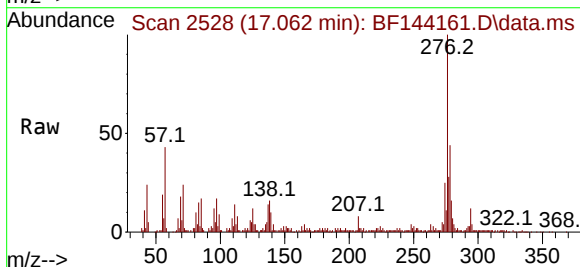
Tgt Ion:278 Resp: 43646

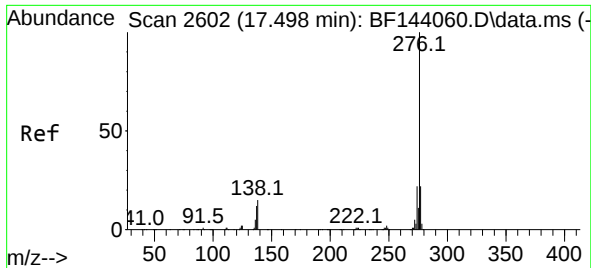
Ion Ratio Lower Upper

278 100

139 22.0 8.5 12.7#

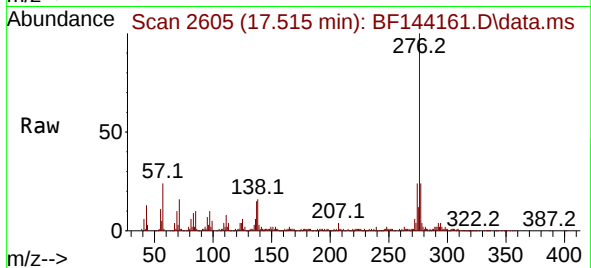
279 37.7 18.6 28.0#





#92
 Benzo(g,h,i)perylene
 Concen: 26.090 ng
 RT: 17.515 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: BF144161.D
 Acq: 31 Oct 2025 01:39

Instrument :
 BNA_F
 ClientSampleId :
 TP4



Tgt Ion:276 Resp: 177120
 Ion Ratio Lower Upper
 276 100
 277 24.0 17.9 26.9
 138 16.3 12.0 18.0

