

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011625\
 Data File : BF141191.D
 Acq On : 16 Jan 2025 17:50
 Operator : RC/JU
 Sample : Q1099-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-01152025

Quant Time: Jan 17 00:05:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 10 22:54:19 2025
 Response via : Initial Calibration

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

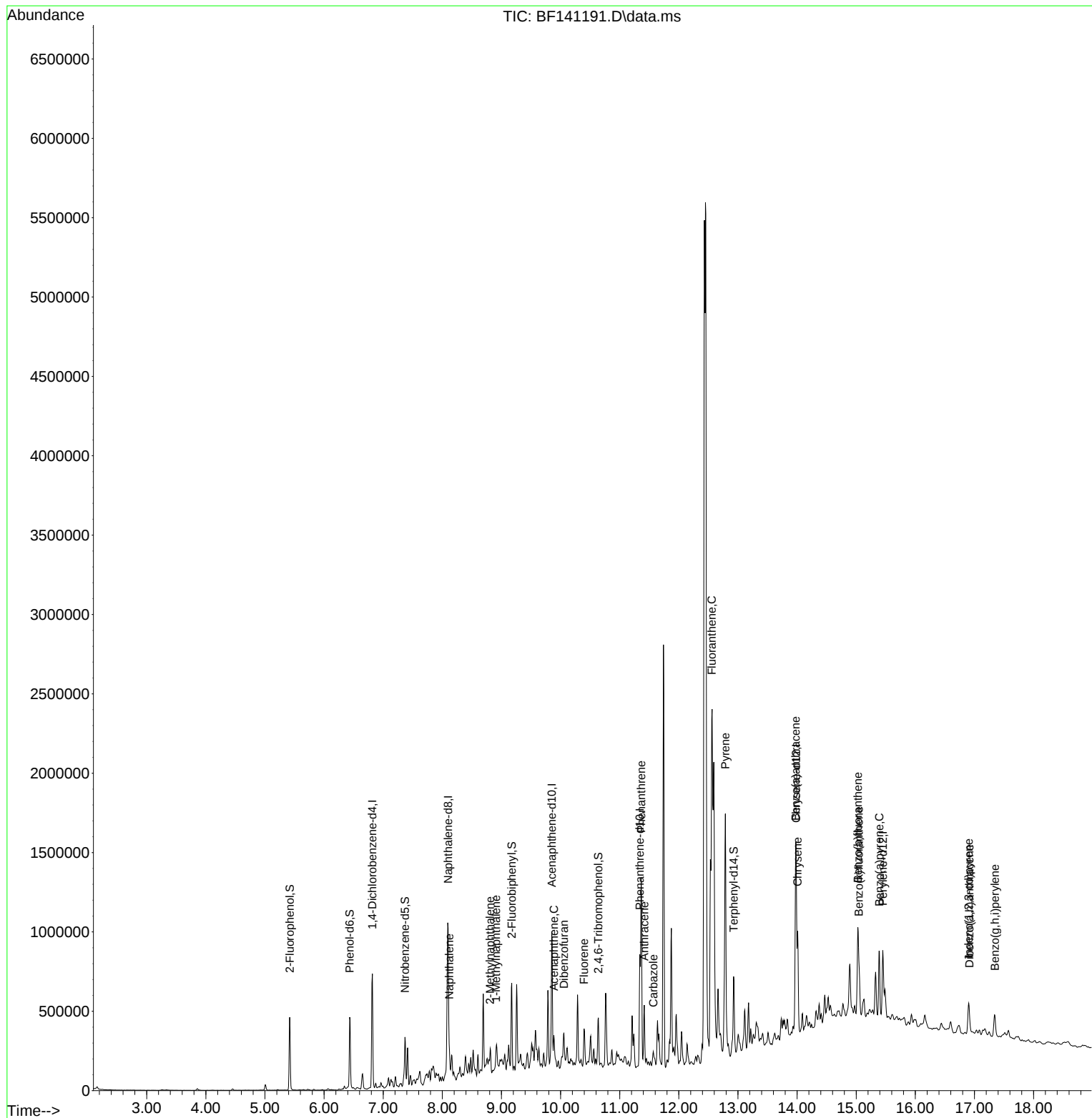
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.816	152	149348	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	542781	20.000	ng	0.00
39) Acenaphthene-d10	9.851	164	244617	20.000	ng	-0.01
64) Phenanthrene-d10	11.339	188	351097	20.000	ng	0.00
76) Chrysene-d12	13.986	240	290167	20.000	ng	0.00
86) Perylene-d12	15.451	264	241487	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	180476	18.668	ng	0.00
7) Phenol-d6	6.434	99	218761	17.863	ng	-0.01
23) Nitrobenzene-d5	7.369	82	129759	12.672	ng	-0.02
42) 2,4,6-Tribromophenol	10.639	330	44510	15.969	ng	-0.01
45) 2-Fluorobiphenyl	9.175	172	243311	15.189	ng	0.00
79) Terphenyl-d14	12.927	244	218872	11.211	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.116	128	91975	3.213	ng	99
37) 2-Methylnaphthalene	8.810	142	47852	2.623	ng	99
38) 1-Methylnaphthalene	8.910	142	39400	2.192	ng	97
52) Acenaphthene	9.886	154	51331	3.476	ng	98
55) Dibenzofuran	10.057	168	53056m	2.641	ng	
58) Fluorene	10.398	166	89984	5.766	ng	99
71) Phenanthrene	11.363	178	632537	33.558	ng	99
72) Anthracene	11.416	178	217974	11.893	ng	100
73) Carbazole	11.569	167	47741	2.841	ng	98
75) Fluoranthene	12.557	202	979683	52.084	ng	99
78) Pyrene	12.786	202	858324	30.970	ng	99
81) Benzo(a)anthracene	13.974	228	432329	21.893	ng	96
83) Chrysene	14.010	228	336168	18.193	ng	97
87) Indeno(1,2,3-cd)pyrene	16.904	276	146489	8.280	ng	95
88) Benzo(b)fluoranthene	15.027	252	381958m	24.529	ng	
89) Benzo(k)fluoranthene	15.045	252	118297m	8.989	ng	
90) Benzo(a)pyrene	15.392	252	263869	20.538	ng	99
91) Dibenzo(a,h)anthracene	16.915	278	35086	2.452	ng	# 86
92) Benzo(g,h,i)perylene	17.345	276	140359	9.430	ng	98

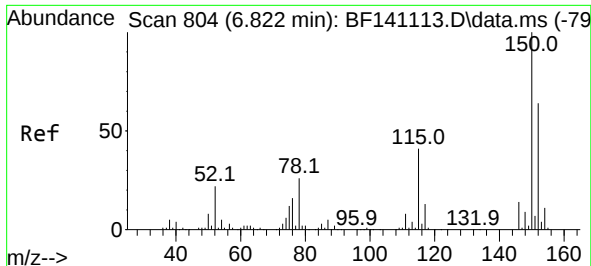
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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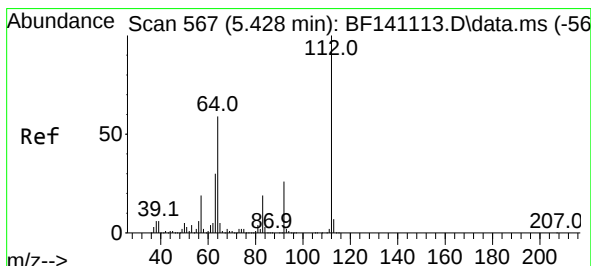
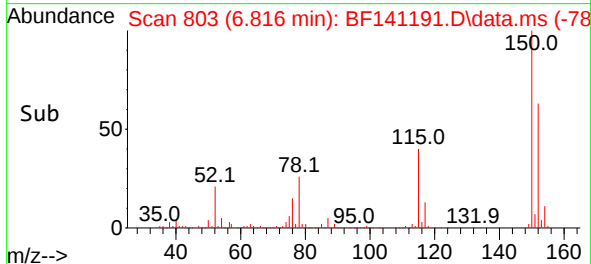
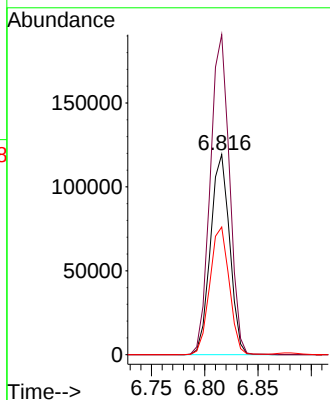
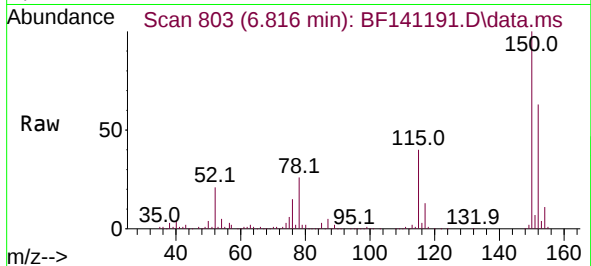




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.816 min Scan# 804
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

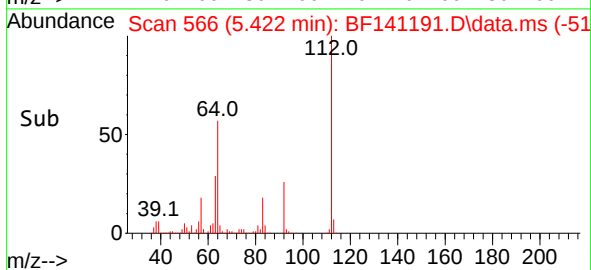
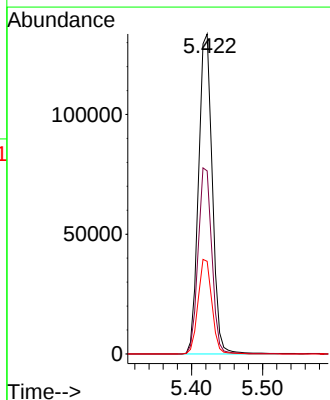
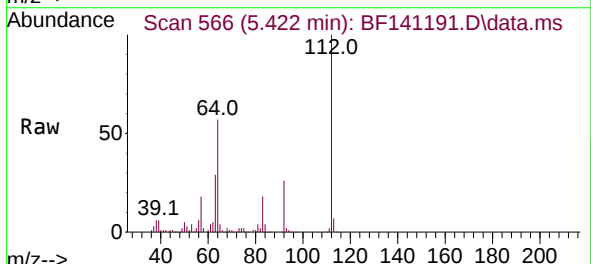
Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

Tgt Ion:152 Resp: 149348
Ion Ratio Lower Upper
152 100
150 159.8 125.8 188.8
115 63.7 51.4 77.2



#5
2-Fluorophenol
Concen: 18.668 ng
RT: 5.422 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

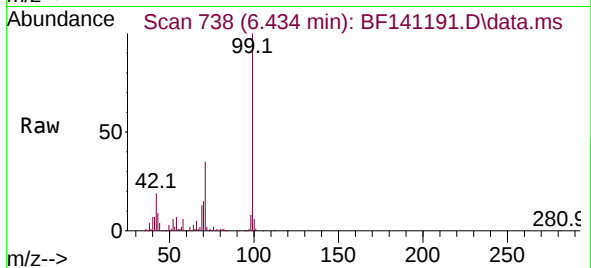
Tgt Ion:112 Resp: 180476
Ion Ratio Lower Upper
112 100
64 57.2 47.3 70.9
63 29.0 24.2 36.2



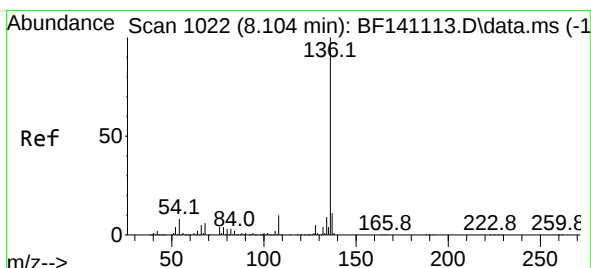
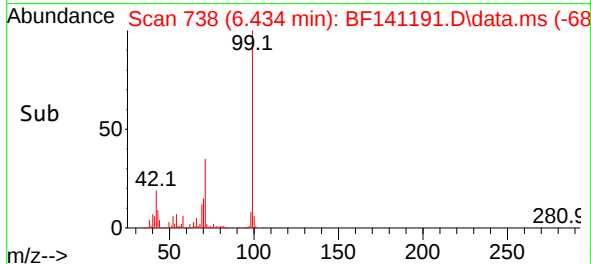
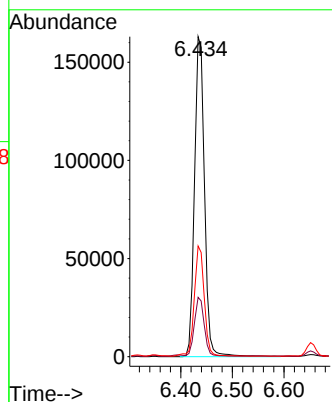


#7
Phenol-d6
Concen: 17.863 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

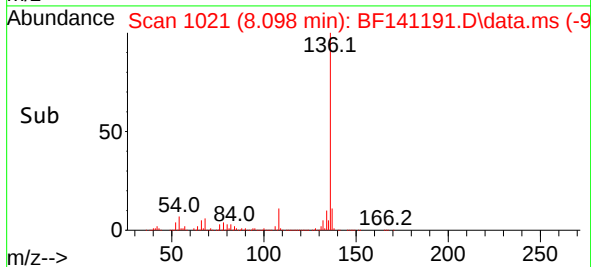
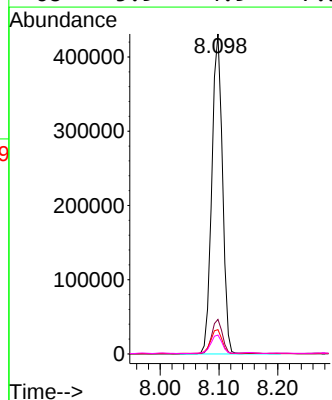
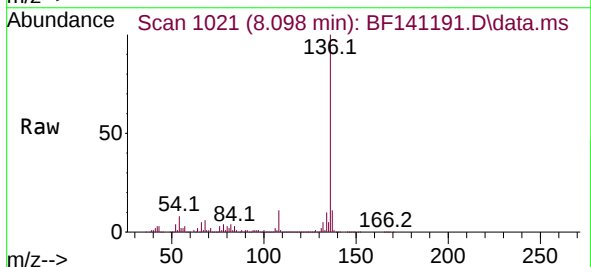


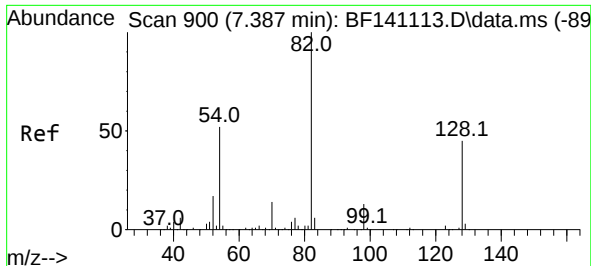
Tgt Ion: 99 Resp: 218761
Ion Ratio Lower Upper
99 100
42 18.5 15.0 22.4
71 34.6 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion: 136 Resp: 542781
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.6 6.3 9.5
68 5.9 4.9 7.3





#23

Nitrobenzene-d5

Concen: 12.672 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.018 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

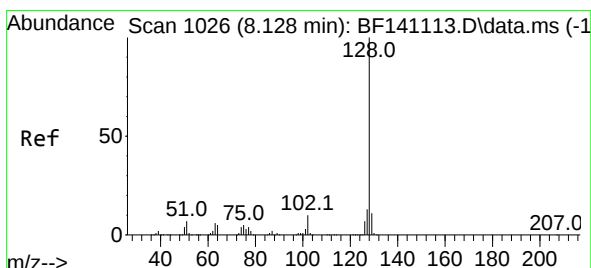
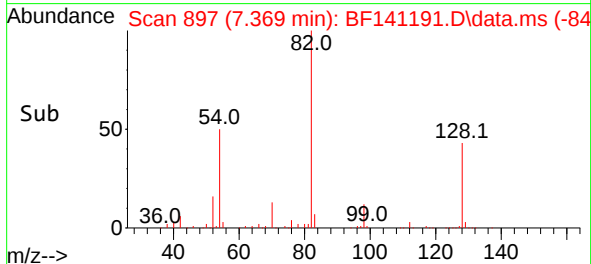
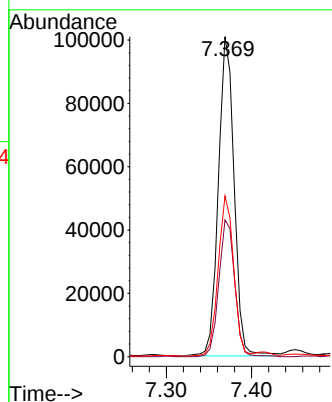
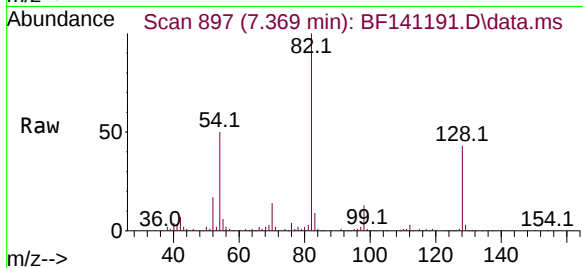
Tgt Ion: 82 Resp: 129759

Ion Ratio Lower Upper

82 100

128 42.7 36.1 54.1

54 50.2 41.0 61.4



#31

Naphthalene

Concen: 3.213 ng

RT: 8.116 min Scan# 1024

Delta R.T. -0.012 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

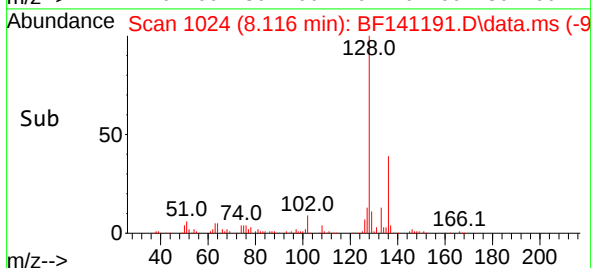
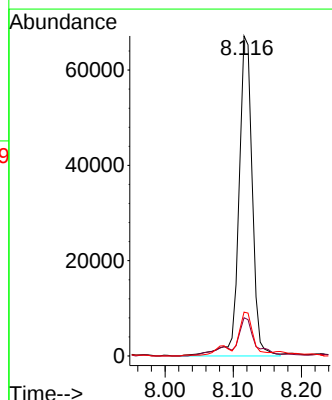
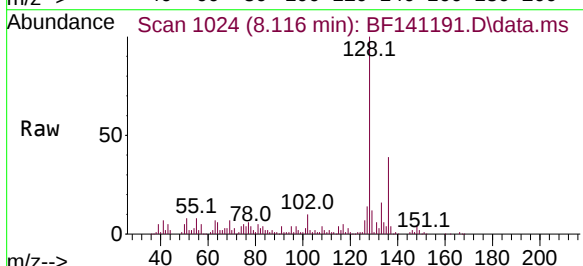
Tgt Ion:128 Resp: 91975

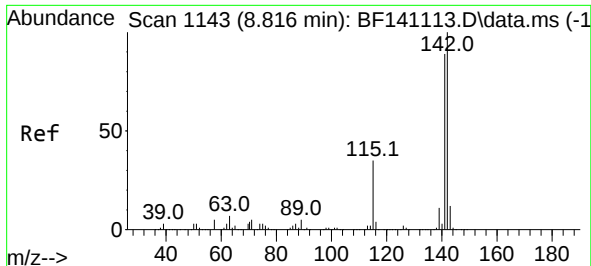
Ion Ratio Lower Upper

128 100

129 11.9 9.0 13.6

127 13.7 10.8 16.2

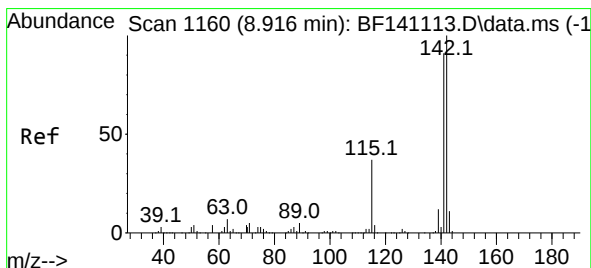
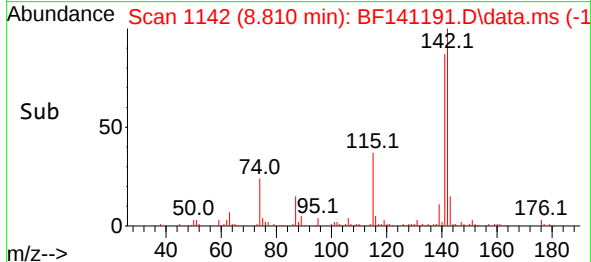
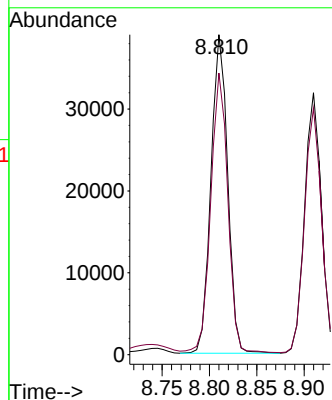
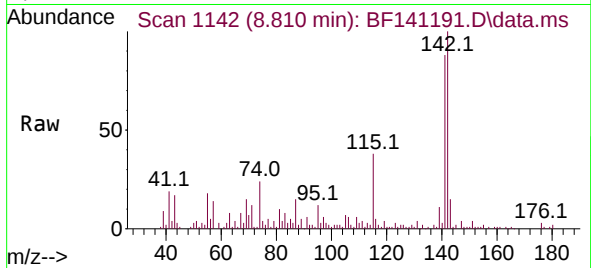




#37
2-Methylnaphthalene
Concen: 2.623 ng
RT: 8.810 min Scan# 1143
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

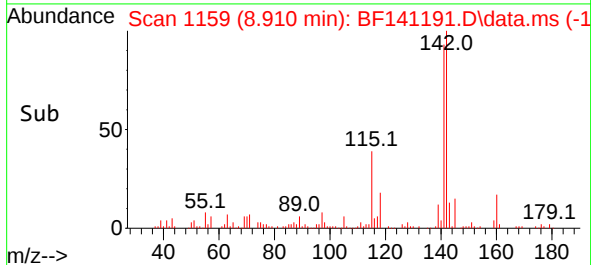
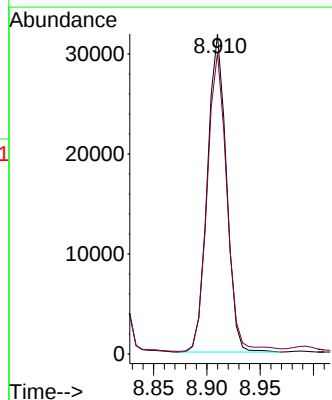
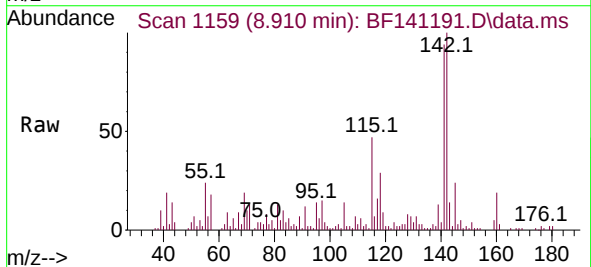
Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

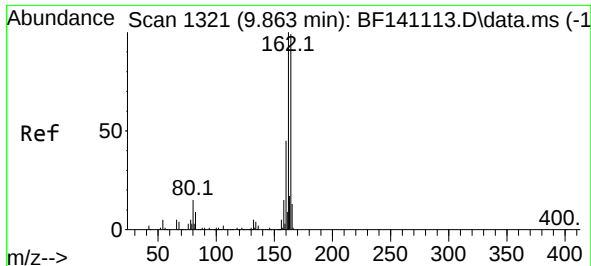
Tgt Ion:142 Resp: 47852
Ion Ratio Lower Upper
142 100
141 88.0 71.3 106.9



#38
1-Methylnaphthalene
Concen: 2.192 ng
RT: 8.910 min Scan# 1159
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:142 Resp: 39400
Ion Ratio Lower Upper
142 100
141 94.1 73.1 109.7

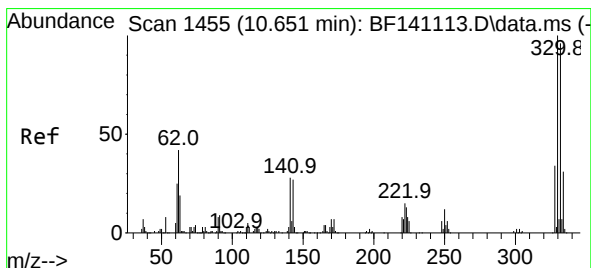
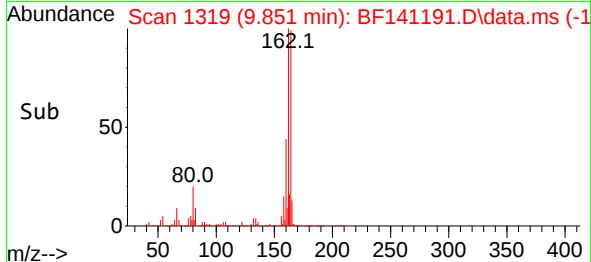
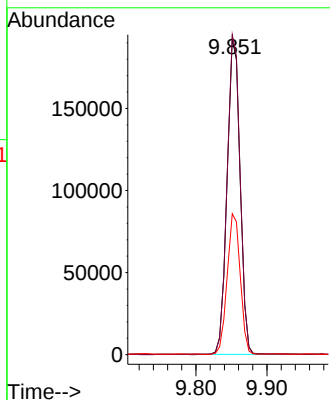
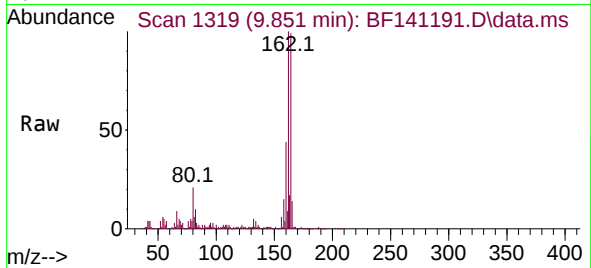




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

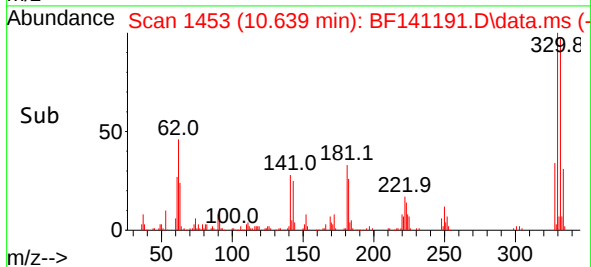
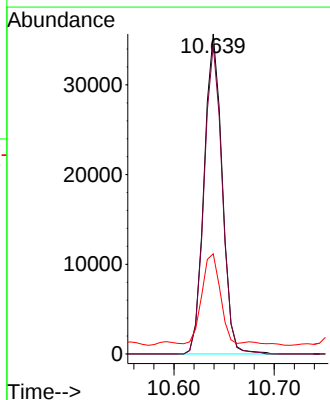
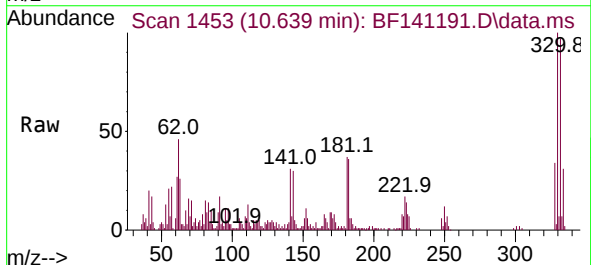
Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

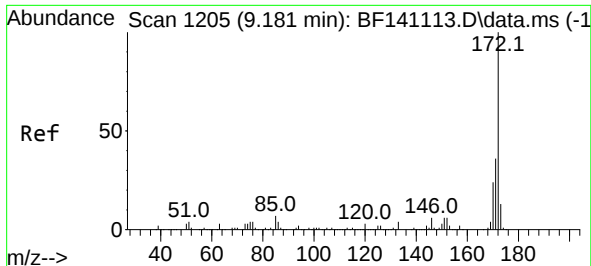
Tgt Ion:164 Resp: 244617
Ion Ratio Lower Upper
164 100
162 101.3 81.0 121.4
160 44.6 36.1 54.1



#42
2,4,6-Tribromophenol
Concen: 15.969 ng
RT: 10.639 min Scan# 1453
Delta R.T. -0.012 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:330 Resp: 44510
Ion Ratio Lower Upper
330 100
332 96.6 76.9 115.3
141 28.6 25.2 37.8

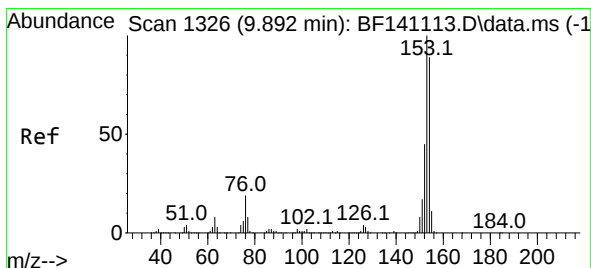
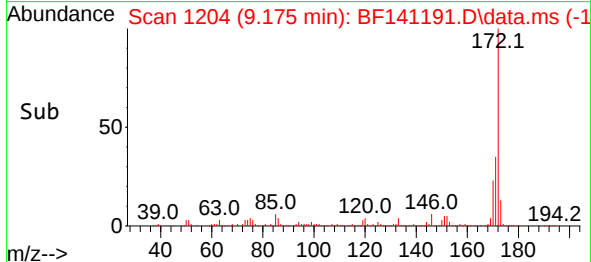
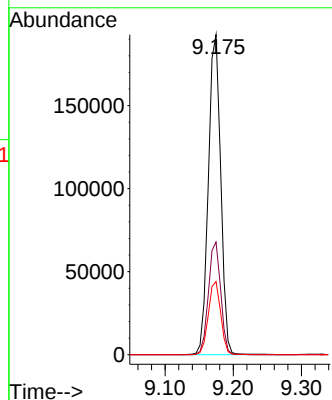
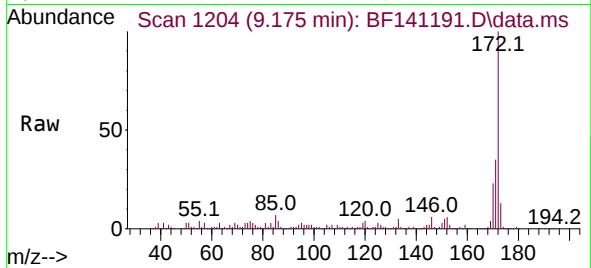




#45
2-Fluorobiphenyl
Concen: 15.189 ng
RT: 9.175 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

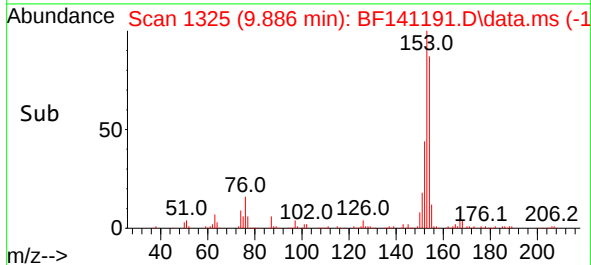
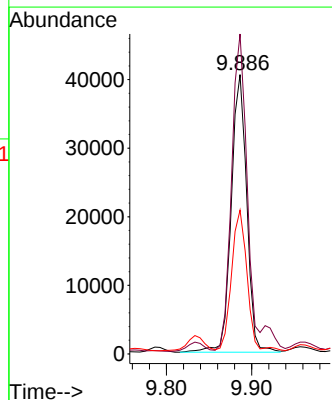
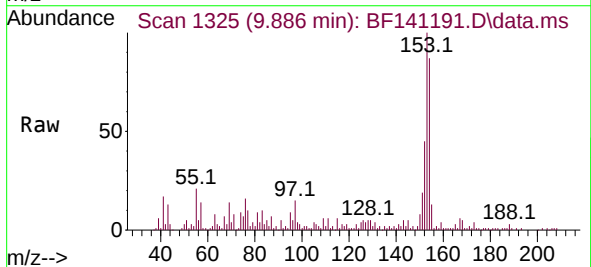
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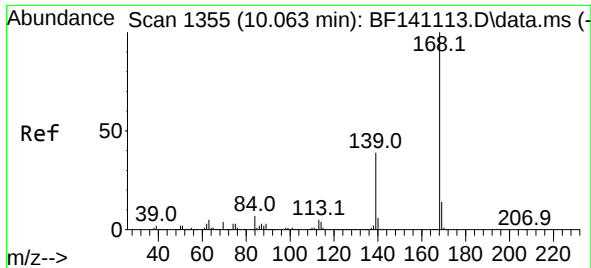
Tgt Ion:172 Resp: 243311
Ion Ratio Lower Upper
172 100
171 35.2 28.7 43.1
170 22.8 19.0 28.6



#52
Acenaphthene
Concen: 3.476 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:154 Resp: 51331
Ion Ratio Lower Upper
154 100
153 114.6 89.8 134.6
152 51.5 40.8 61.2

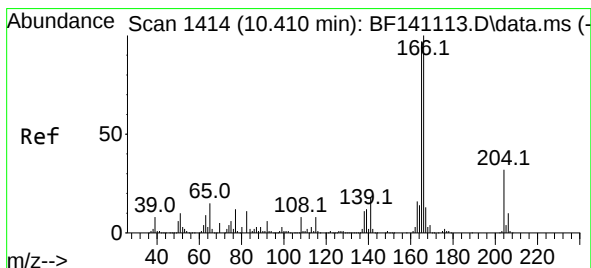
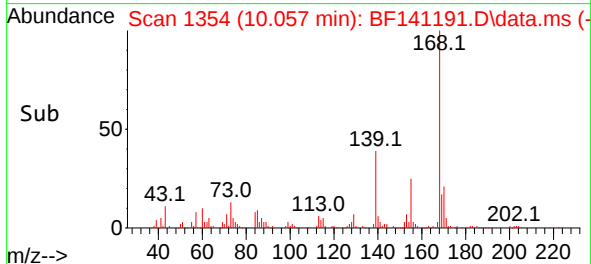
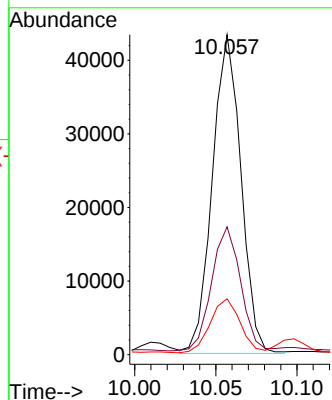
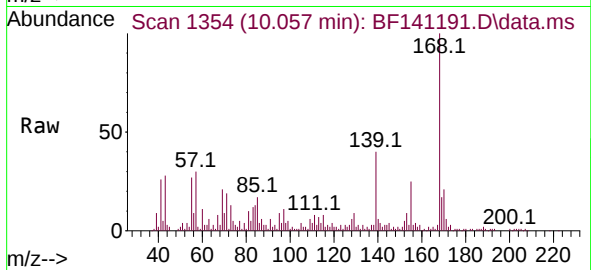




#55
Dibenzenofuran
Concen: 2.641 ng m
RT: 10.057 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

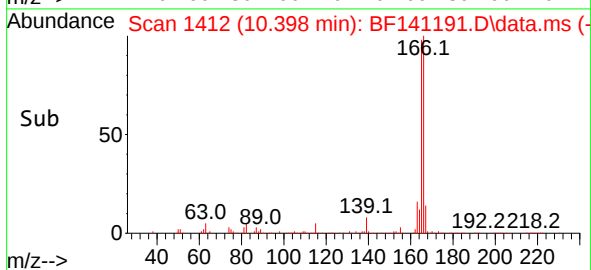
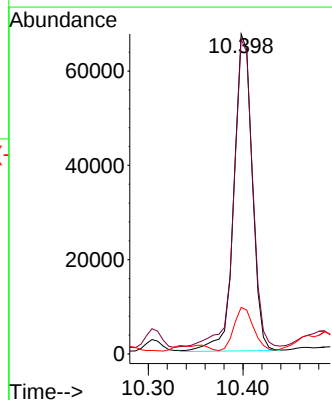
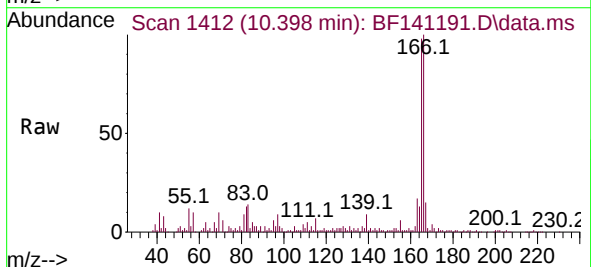
Instrument :
BNA_F
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OR-02-01152025

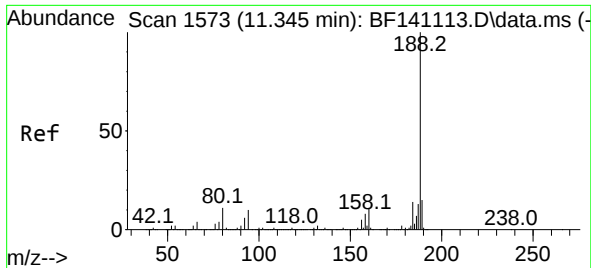
Tgt Ion:168 Resp: 53056
Ion Ratio Lower Upper
168 100
139 39.9 31.4 47.0
169 17.5 10.9 16.3#



#58
Fluorene
Concen: 5.766 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.012 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:166 Resp: 89984
Ion Ratio Lower Upper
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165 98.4 77.8 116.8
167 14.6 10.8 16.2

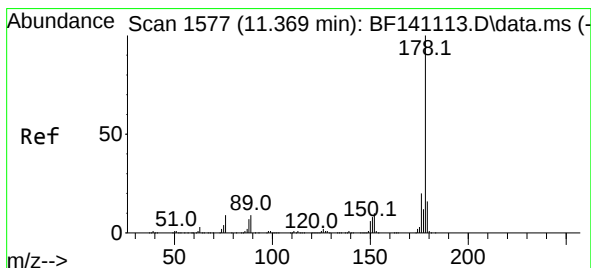
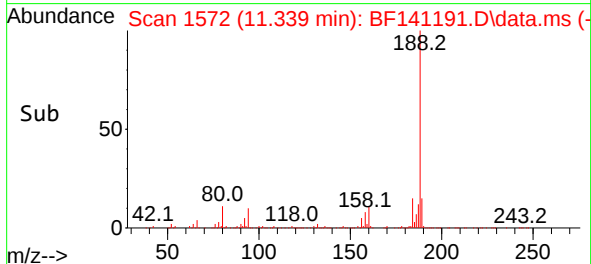
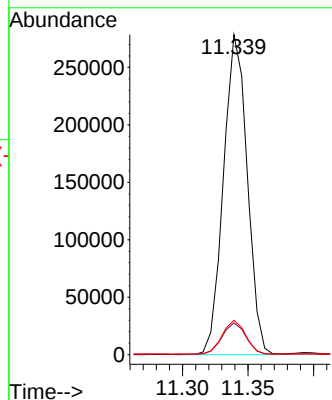
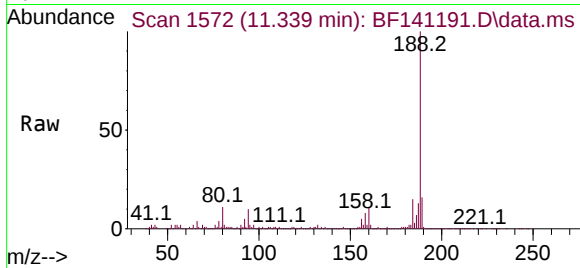




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

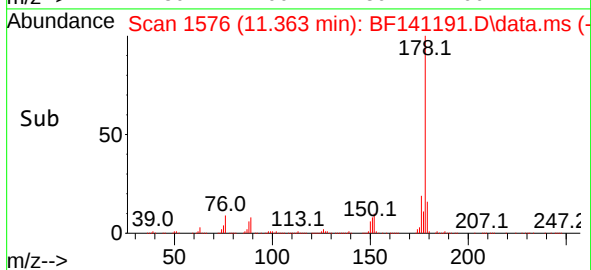
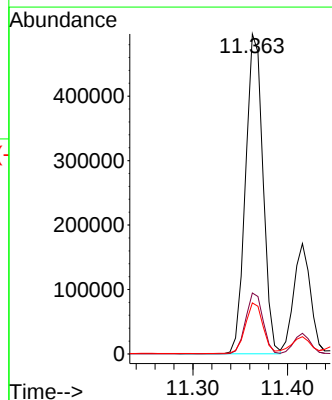
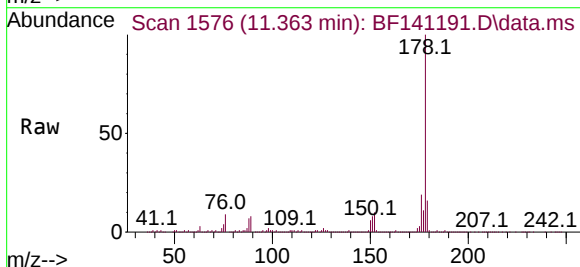
Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

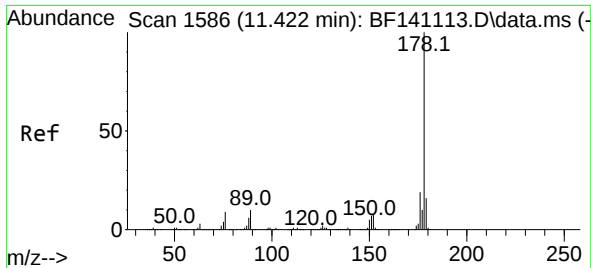
Tgt Ion:188 Resp: 351097
Ion Ratio Lower Upper
188 100
94 10.0 8.3 12.5
80 10.7 9.0 13.4



#71
Phenanthrene
Concen: 33.558 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:178 Resp: 632537
Ion Ratio Lower Upper
178 100
176 19.0 15.7 23.5
179 16.0 12.6 19.0

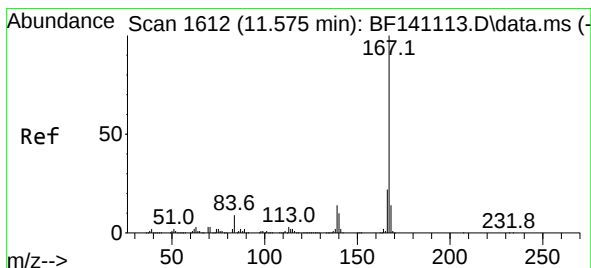
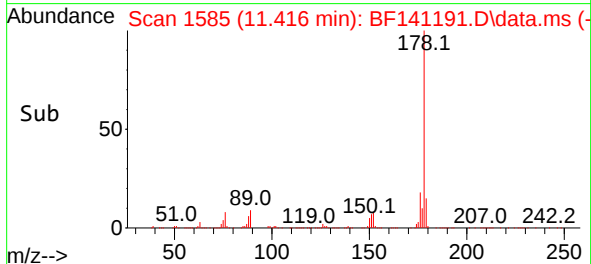
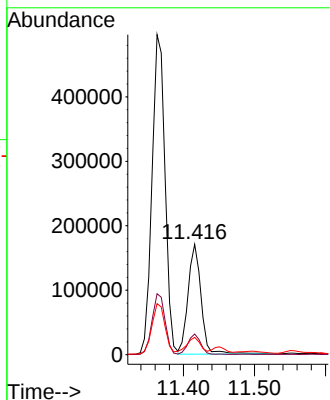
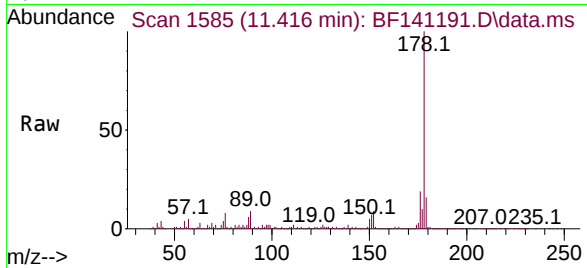




#72
 Anthracene
 Concen: 11.893 ng
 RT: 11.416 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: BF141191.D
 Acq: 16 Jan 2025 17:50

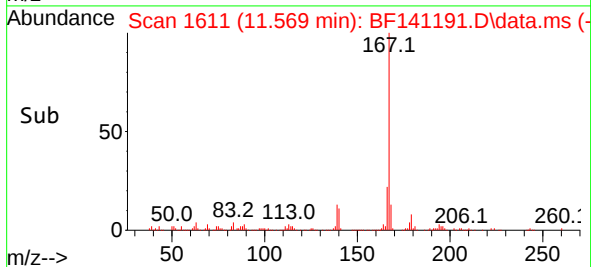
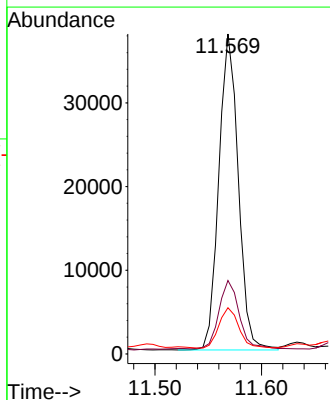
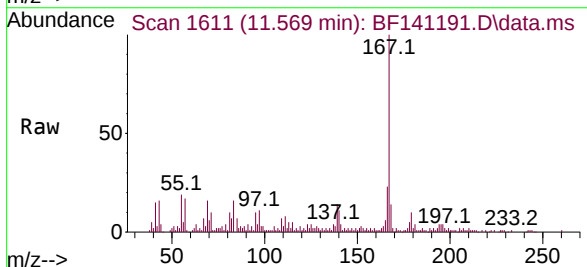
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-01152025

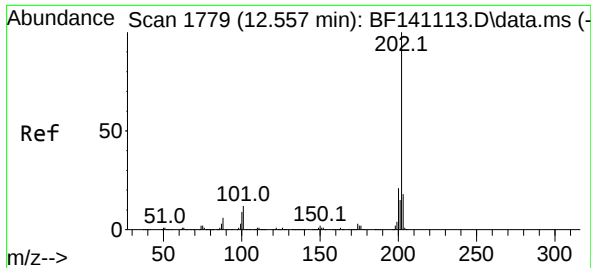
Tgt Ion:178 Resp: 217974
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.9 22.3
 179 15.7 12.6 19.0



#73
 Carbazole
 Concen: 2.841 ng
 RT: 11.569 min Scan# 1611
 Delta R.T. -0.006 min
 Lab File: BF141191.D
 Acq: 16 Jan 2025 17:50

Tgt Ion:167 Resp: 47741
 Ion Ratio Lower Upper
 167 100
 166 23.0 17.4 26.2
 139 14.5 10.9 16.3

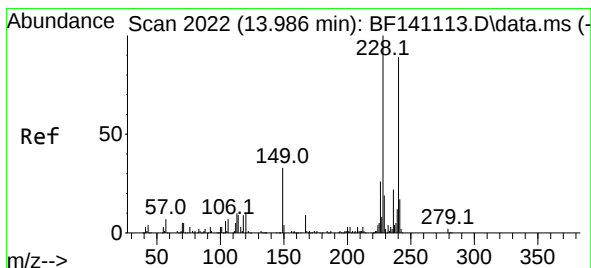
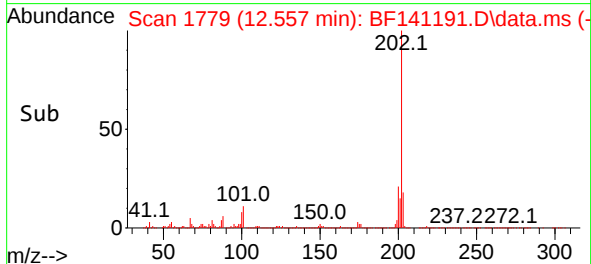
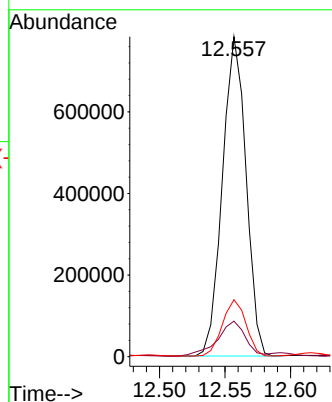
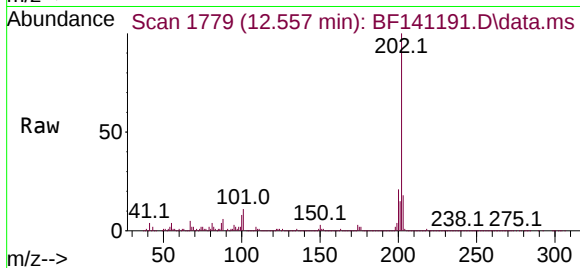




#75
Fluoranthene
Concen: 52.084 ng
RT: 12.557 min Scan# 1779
Delta R.T. -0.000 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

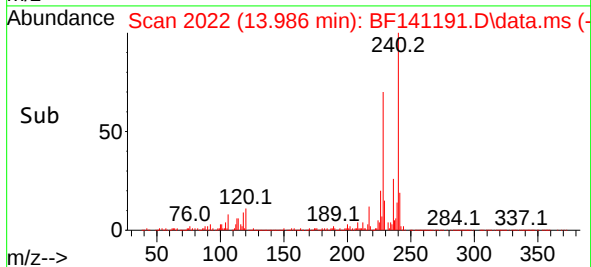
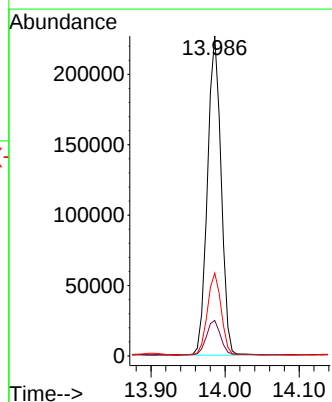
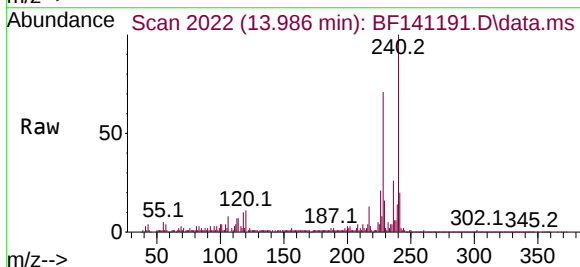
Instrument :
BNA_F
ClientSampleId :
OR-02-01152025

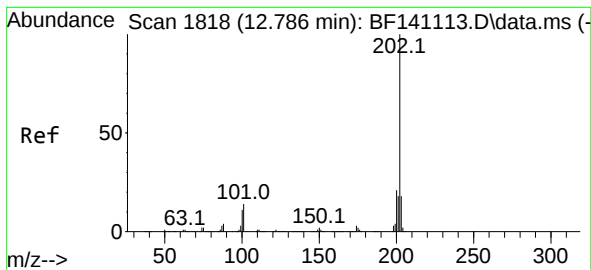
Tgt Ion:202 Resp: 979683
Ion Ratio Lower Upper
202 100
101 11.1 0.0 32.3
203 17.8 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Tgt Ion:240 Resp: 290167
Ion Ratio Lower Upper
240 100
120 11.1 9.1 13.7
236 25.9 19.8 29.6





#78

Pyrene

Concen: 30.970 ng

RT: 12.786 min Scan# 1818

Delta R.T. -0.000 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

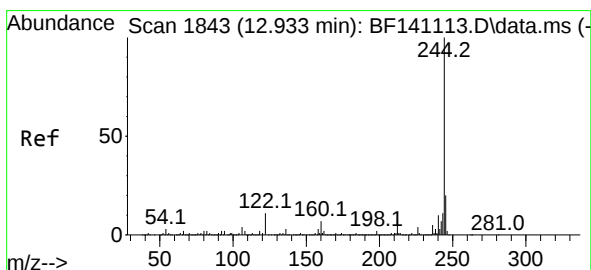
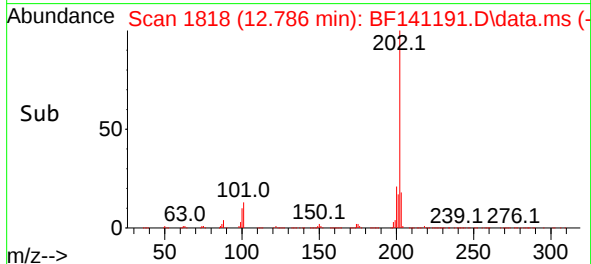
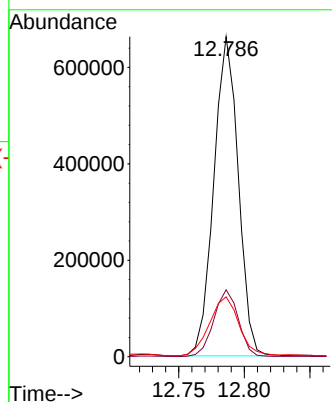
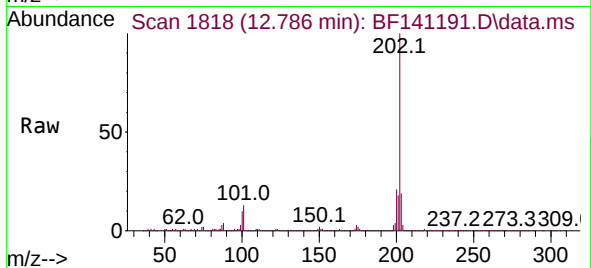
Tgt Ion:202 Resp: 858324

Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 18.7 14.3 21.5



#79

Terphenyl-d14

Concen: 11.211 ng

RT: 12.927 min Scan# 1842

Delta R.T. -0.006 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

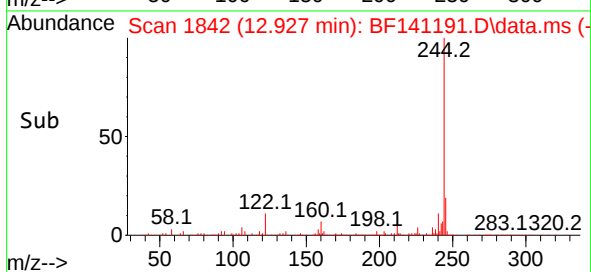
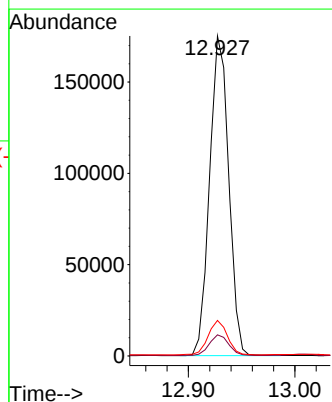
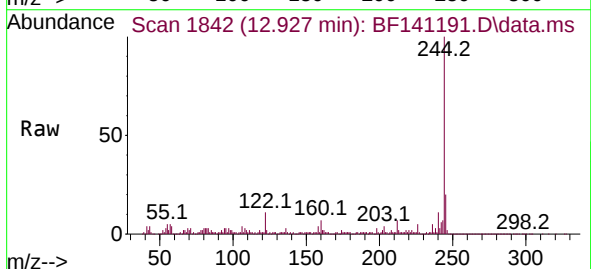
Tgt Ion:244 Resp: 218872

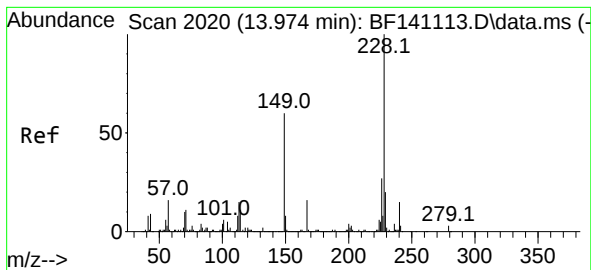
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

122 11.1 8.8 13.2





#81

Benzo(a)anthracene

Concen: 21.893 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

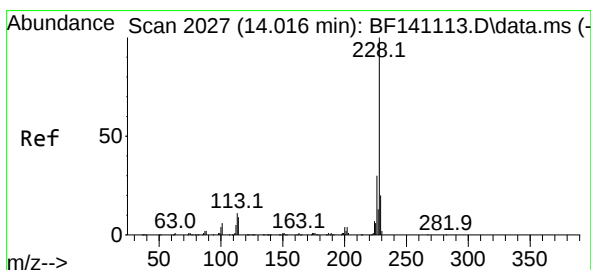
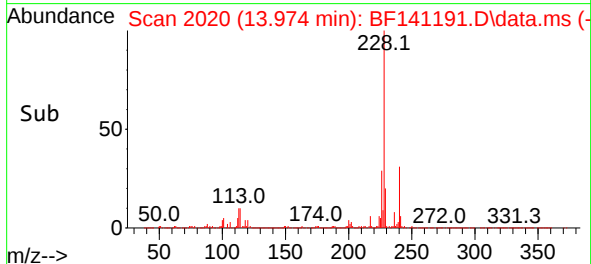
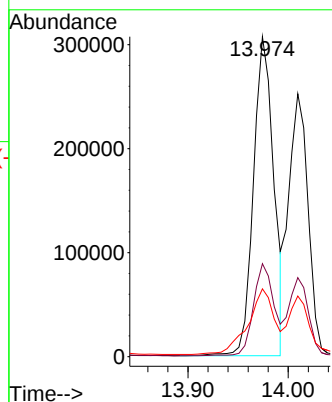
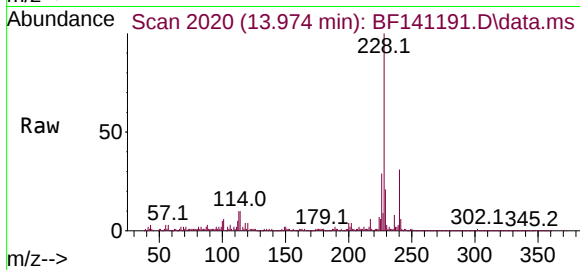
Tgt Ion:228 Resp: 432329

Ion Ratio Lower Upper

228 100

226 29.1 21.7 32.5

229 21.2 15.7 23.5



#83

Chrysene

Concen: 18.193 ng

RT: 14.010 min Scan# 2026

Delta R.T. -0.006 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

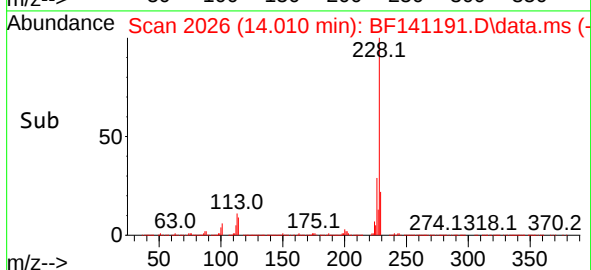
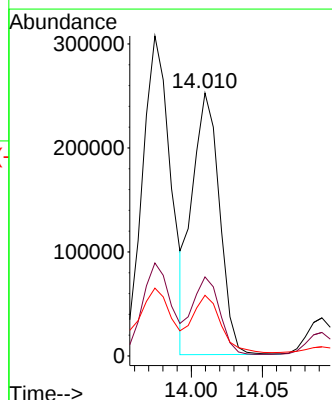
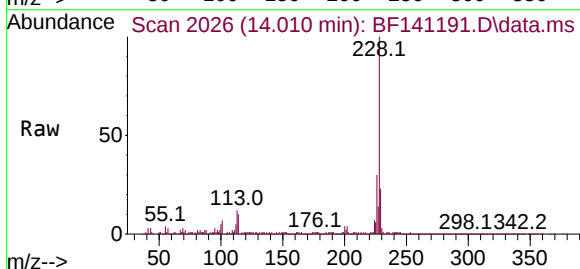
Tgt Ion:228 Resp: 336168

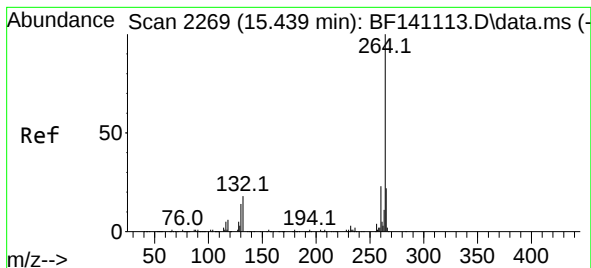
Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.8

229 23.1 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

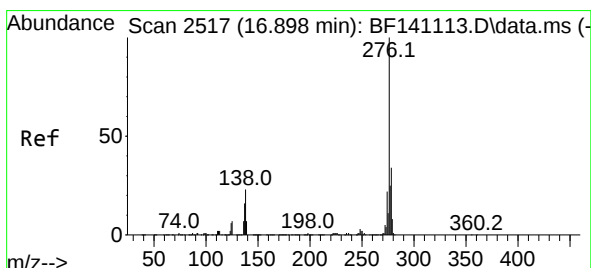
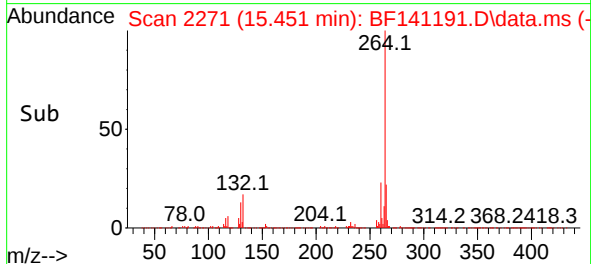
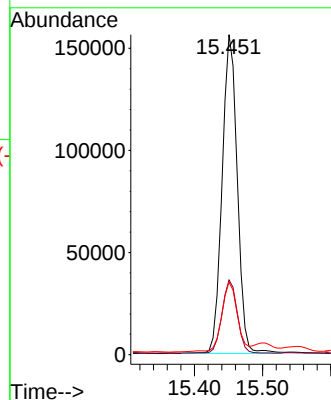
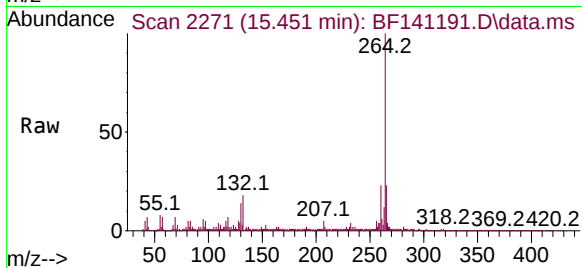
Tgt Ion:264 Resp: 241487

Ion Ratio Lower Upper

264 100

260 23.4 18.6 28.0

265 22.7 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.280 ng

RT: 16.904 min Scan# 2518

Delta R.T. 0.006 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

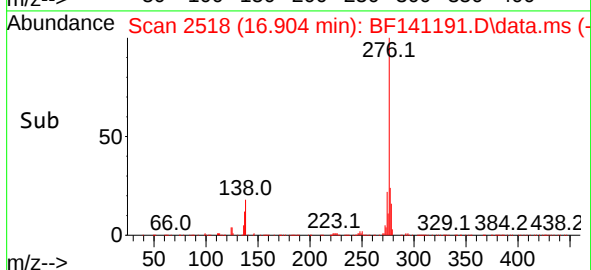
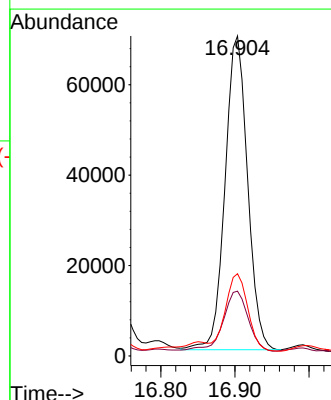
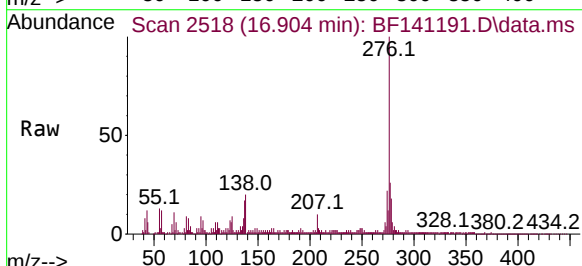
Tgt Ion:276 Resp: 146489

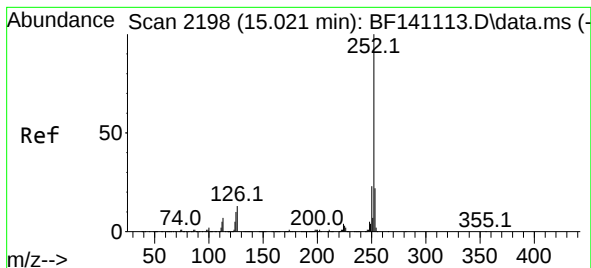
Ion Ratio Lower Upper

276 100

138 21.4 20.7 31.1

277 24.7 20.6 30.8





#88

Benzo(b)fluoranthene

Concen: 24.529 ng m

RT: 15.027 min Scan# 2198

Delta R.T. 0.006 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

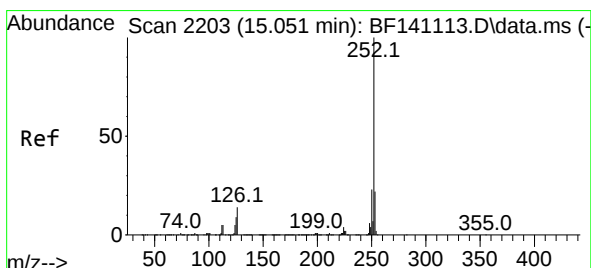
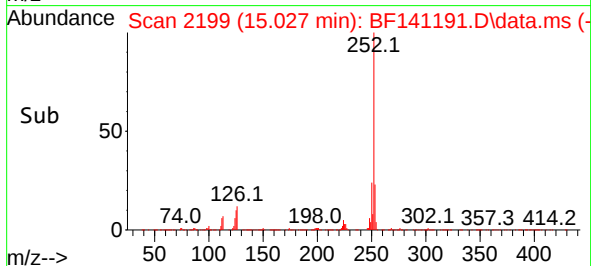
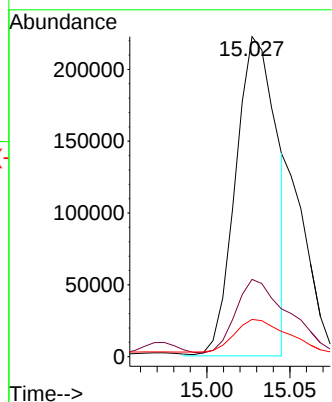
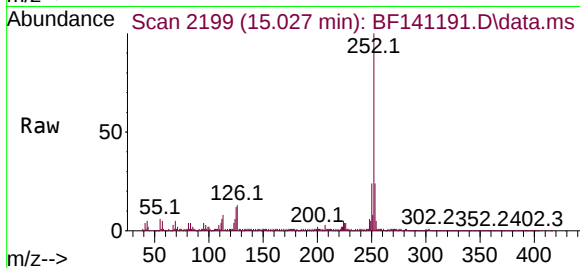
Tgt Ion:252 Resp: 381958

Ion Ratio Lower Upper

252 100

253 24.1 17.8 26.6

125 11.7 8.1 12.1



#89

Benzo(k)fluoranthene

Concen: 8.989 ng m

RT: 15.045 min Scan# 2202

Delta R.T. -0.006 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

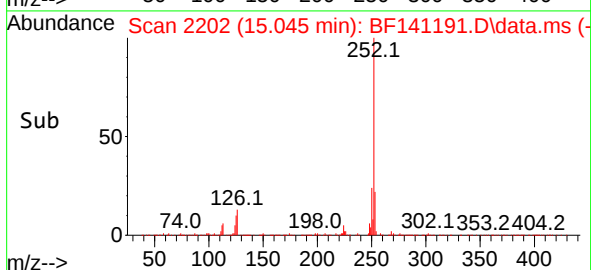
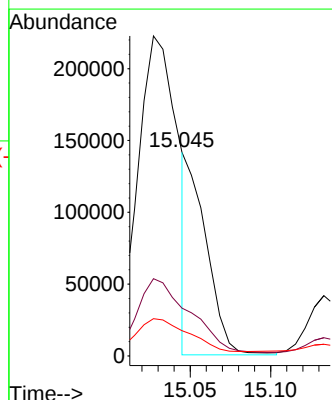
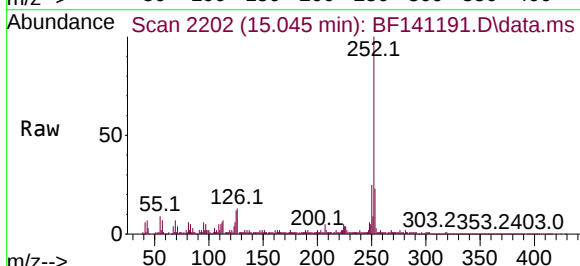
Tgt Ion:252 Resp: 118297

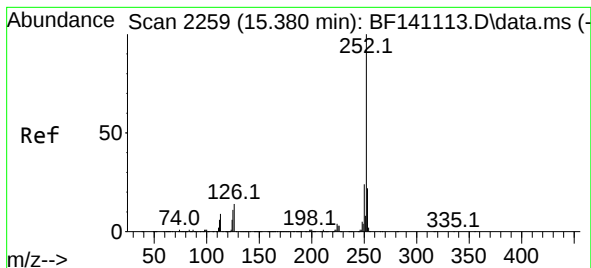
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

125 12.5 7.9 11.9#





#90

Benzo(a)pyrene

Concen: 20.538 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

Instrument :

BNA_F

ClientSampleId :

OR-02-01152025

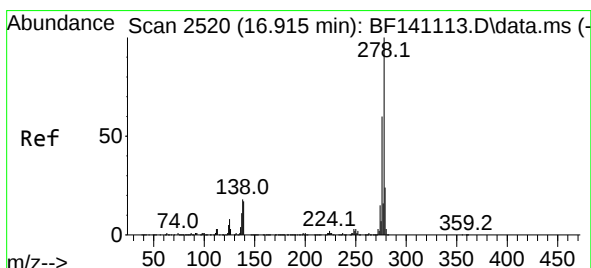
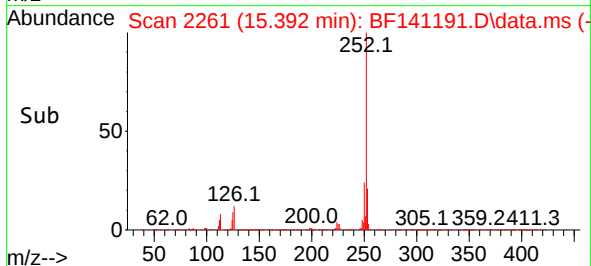
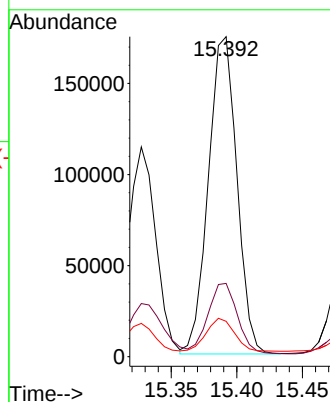
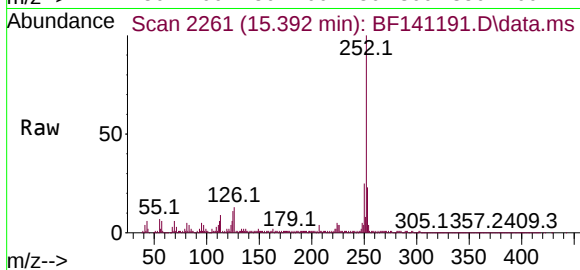
Tgt Ion:252 Resp: 263869

Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

125 11.1 9.1 13.7



#91

Dibenzo(a,h)anthracene

Concen: 2.452 ng

RT: 16.915 min Scan# 2520

Delta R.T. -0.000 min

Lab File: BF141191.D

Acq: 16 Jan 2025 17:50

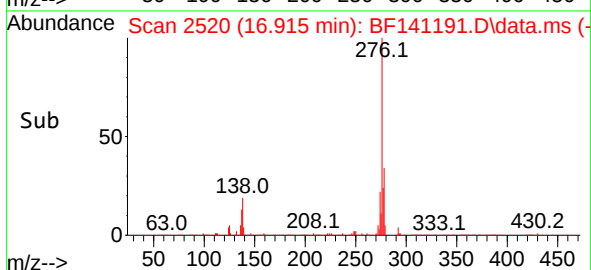
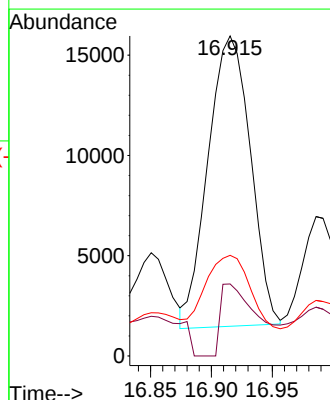
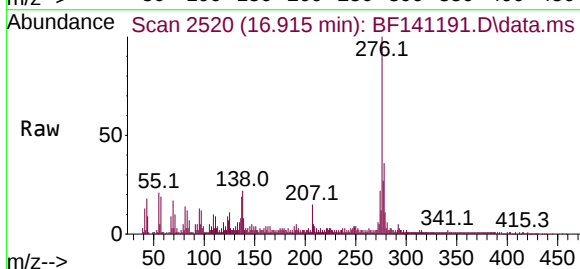
Tgt Ion:278 Resp: 35086

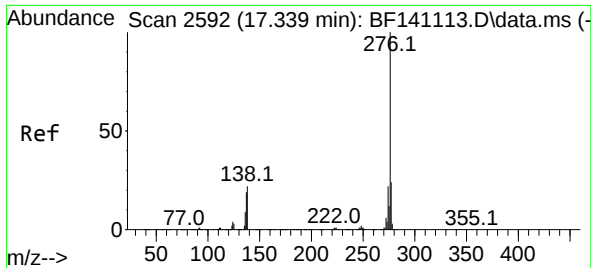
Ion Ratio Lower Upper

278 100

139 22.5 13.8 20.6#

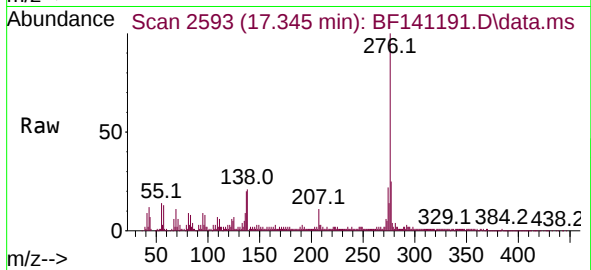
279 31.5 19.1 28.7#





#92
Benzo(g,h,i)perylene
Concen: 9.430 ng
RT: 17.345 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF141191.D
Acq: 16 Jan 2025 17:50

Instrument :
BNA_F
ClientSampleId :
OR-02-01152025



Tgt Ion: 276 Resp: 140359
Ion Ratio Lower Upper
276 100
277 24.8 19.0 28.4
138 20.7 17.4 26.2

