

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
 Data File : BF140278.D
 Acq On : 07 Nov 2024 16:39
 Operator : RC/JU
 Sample : P4694-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-04

Quant Time: Nov 08 01:29:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

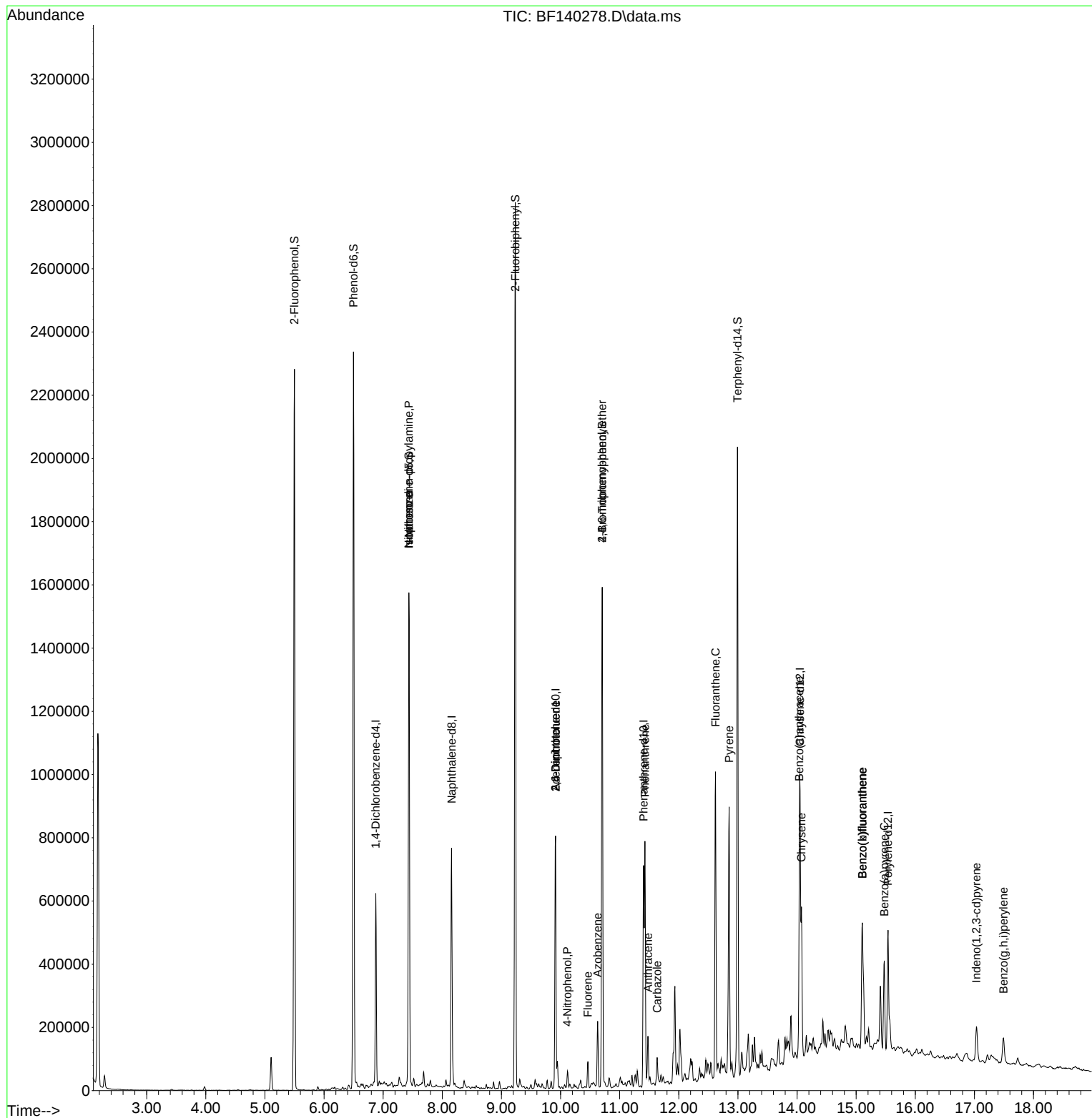
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	120915	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	449073	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	246987	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	362206	20.000	ng	0.00
76) Chrysene-d12	14.051	240	260342	20.000	ng	-0.01
86) Perylene-d12	15.539	264	227502	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	851241	116.667	ng	0.00
7) Phenol-d6	6.498	99	1082234	115.317	ng	0.00
23) Nitrobenzene-d5	7.434	82	711188	78.738	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	258870	106.036	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1204664	77.883	ng	0.00
79) Terphenyl-d14	12.992	244	956445	60.182	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	98333	16.424	ng	# 76
25) Isophorone	7.434	82	702821	45.190	ng	# 68
51) 2,6-Dinitrotoluene	9.916	165	33022	9.236	ng	# 22
56) 4-Nitrophenol	10.116	139	9628	4.067	ng	# 3
57) 2,4-Dinitrotoluene	9.916	165	33022	7.117	ng	# 19
58) Fluorene	10.463	166	31986	2.130	ng	99
63) Azobenzene	10.628	77	47196	3.012	ng	# 1
67) 4-Bromophenyl-phenylether	10.704	248	17058	4.373	ng	# 1
71) Phenanthrene	11.428	178	399618	23.118	ng	98
72) Anthracene	11.480	178	86165	5.084	ng	98
73) Carbazole	11.633	167	43153	2.786	ng	99
75) Fluoranthene	12.622	202	546968	30.262	ng	99
78) Pyrene	12.851	202	488951	22.746	ng	99
81) Benzo(a)anthracene	14.039	228	279282	16.716	ng	98
83) Chrysene	14.074	228	244284	15.613	ng	98
87) Indeno(1,2,3-cd)pyrene	17.033	276	84059	6.295	ng	97
88) Benzo(b)fluoranthene	15.104	252	364421	26.482	ng	98
89) Benzo(k)fluoranthene	15.104	252	364421	28.860	ng	98
90) Benzo(a)pyrene	15.474	252	179747	15.843	ng	98
92) Benzo(g,h,i)perylene	17.492	276	78431	6.998	ng	98

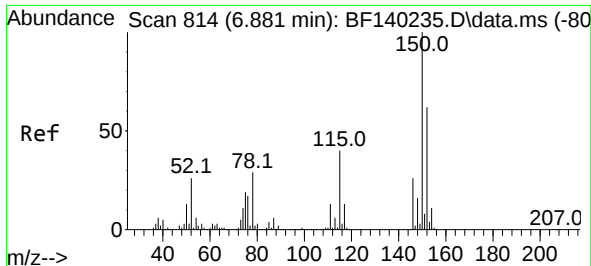
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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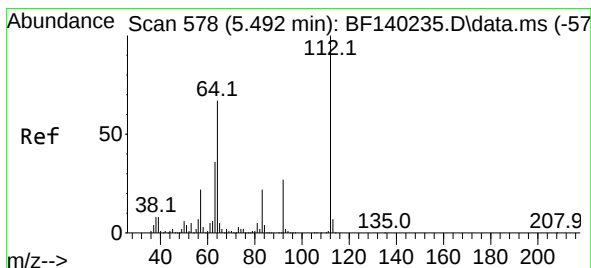
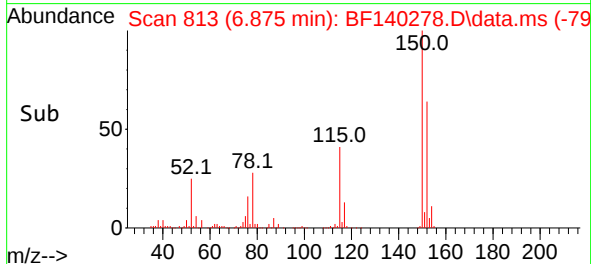
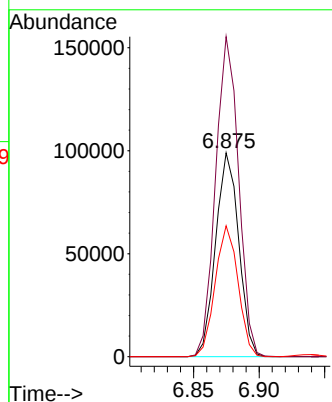
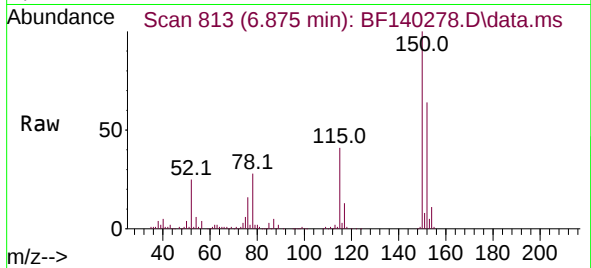




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

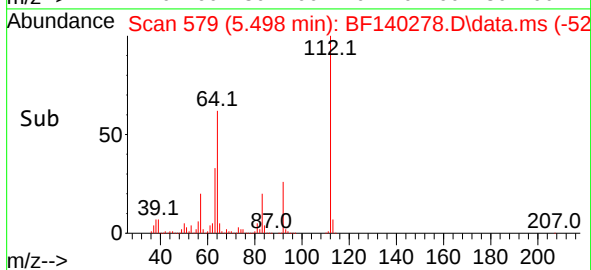
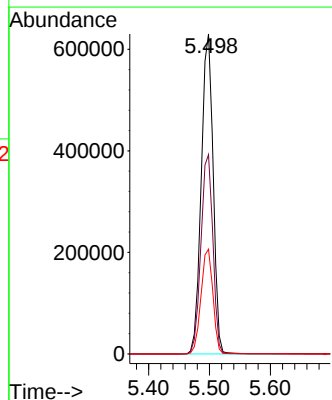
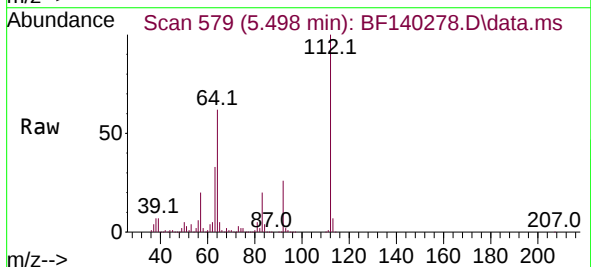
Instrument :
BNA_F
ClientSampleId :
Z-04

Tgt Ion:152 Resp: 120915
Ion Ratio Lower Upper
152 100
150 157.0 129.4 194.2
115 64.2 51.5 77.3



#5
2-Fluorophenol
Concen: 116.667 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:112 Resp: 851241
Ion Ratio Lower Upper
112 100
64 62.3 53.4 80.2
63 32.7 28.9 43.3

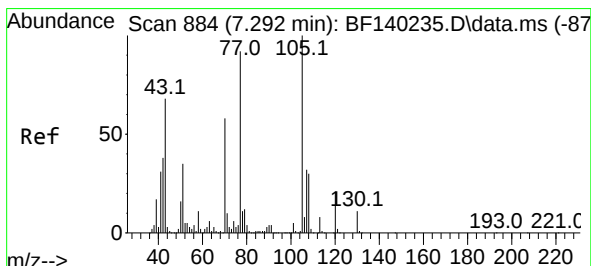
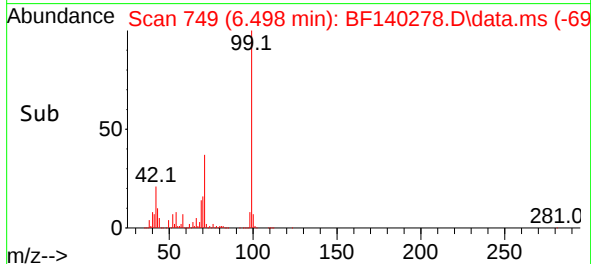
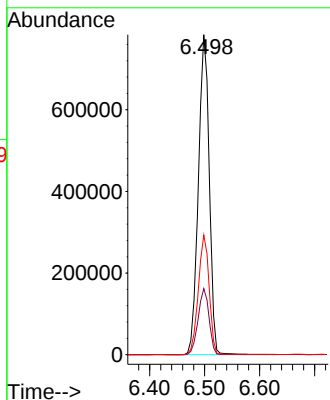
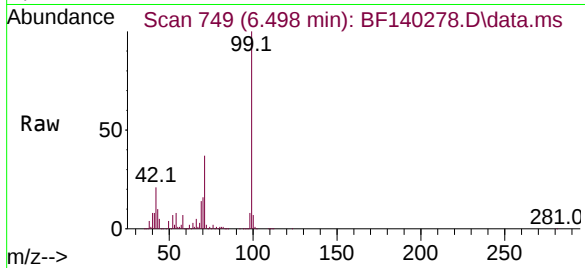




#7
Phenol-d6
Concen: 115.317 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

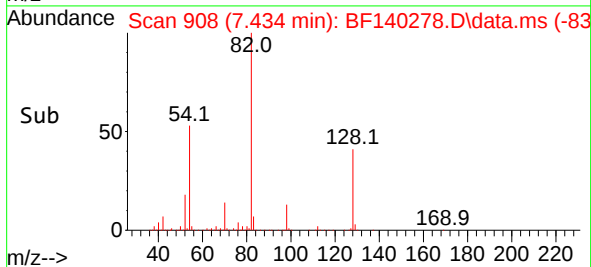
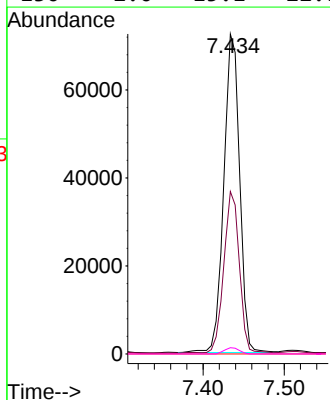
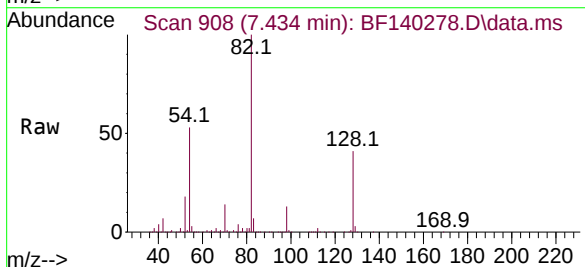
Instrument :
BNA_F
ClientSampleId :
Z-04

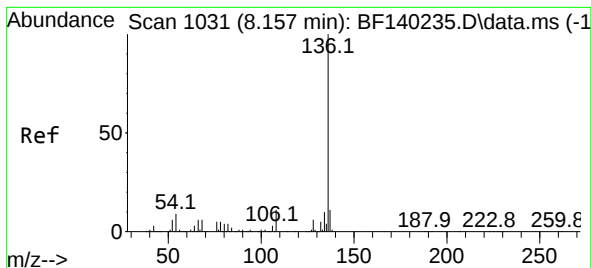
Tgt Ion: 99 Resp: 1082234
Ion Ratio Lower Upper
99 100
42 20.7 18.2 27.2
71 37.4 30.9 46.3



#19
n-Nitroso-di-n-propylamine
Concen: 16.424 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.141 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion: 70 Resp: 98333
Ion Ratio Lower Upper
70 100
42 50.7 52.8 79.2#
101 0.0 7.4 11.2#
130 2.0 15.1 22.7#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1031

Delta R.T. 0.000 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

Tgt Ion:136 Resp: 449073

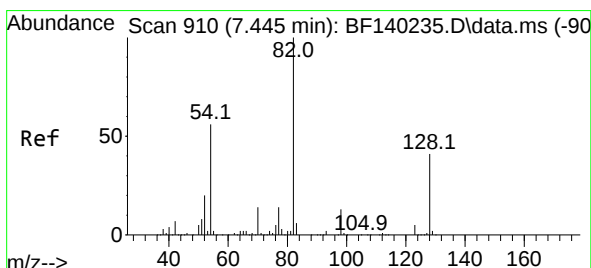
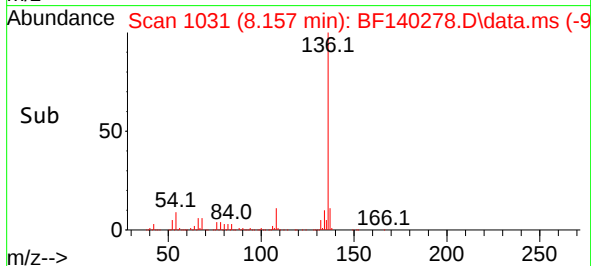
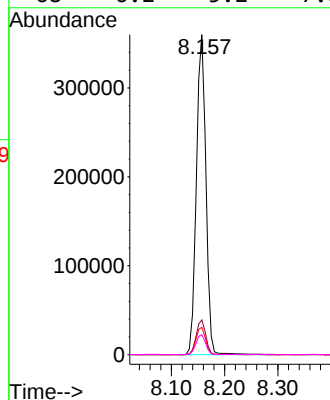
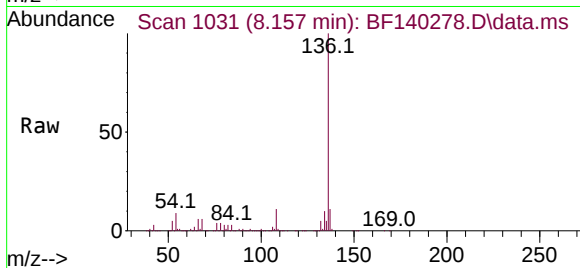
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.6

54 8.6 7.7 11.5

68 6.2 5.2 7.8



#23

Nitrobenzene-d5

Concen: 78.738 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.012 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

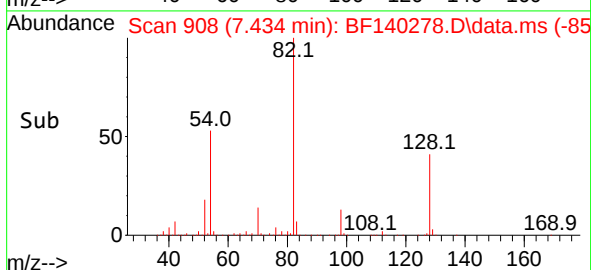
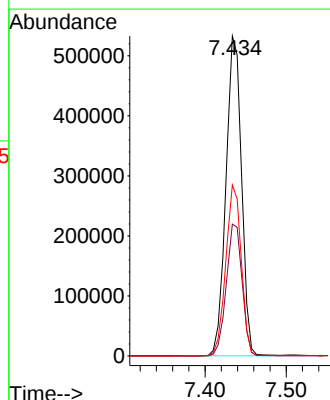
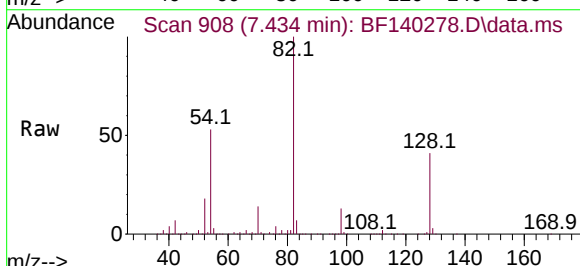
Tgt Ion: 82 Resp: 711188

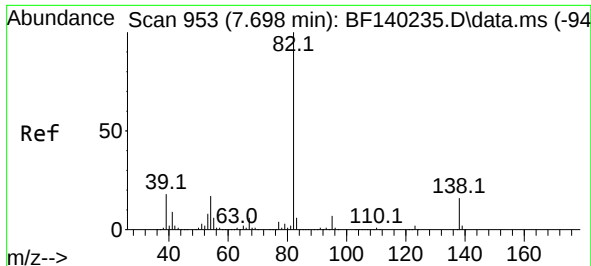
Ion Ratio Lower Upper

82 100

128 41.2 32.8 49.2

54 53.5 44.3 66.5

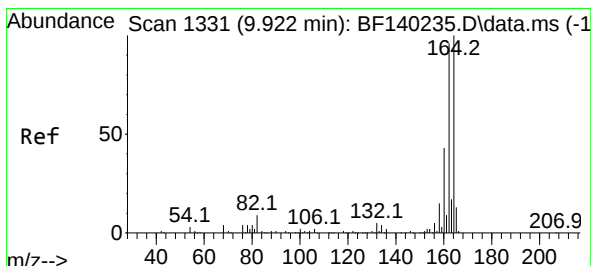
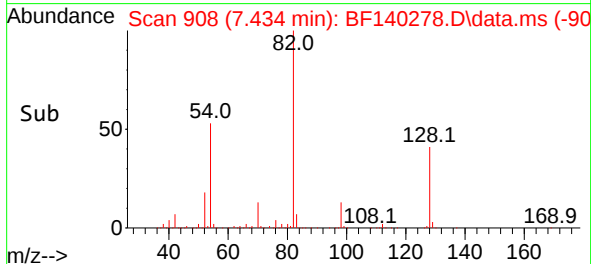
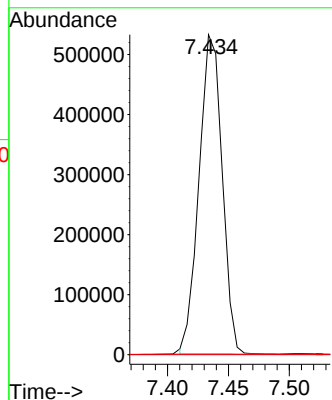
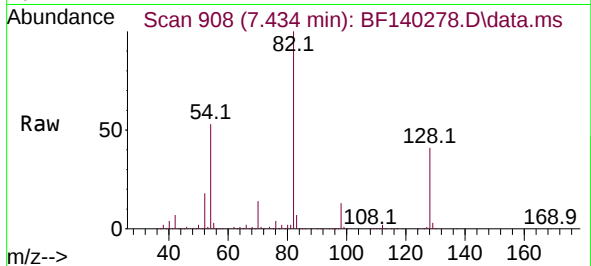




#25
Isophorone
Concen: 45.190 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

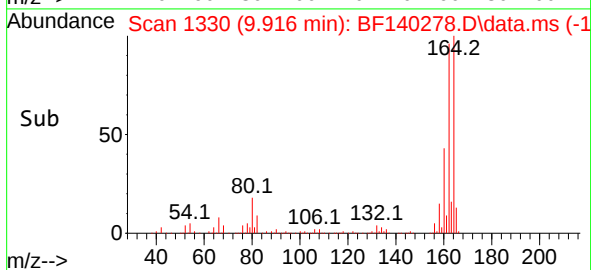
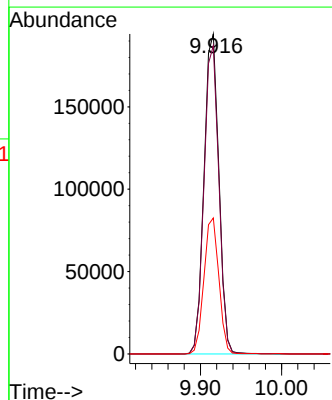
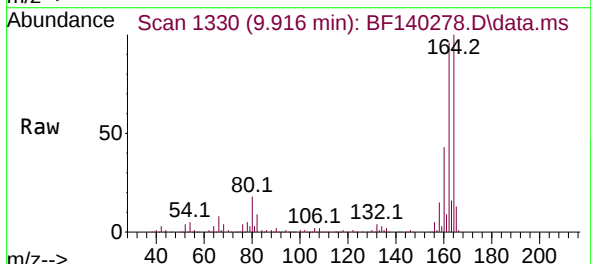
Instrument :
BNA_F
ClientSampleId :
Z-04

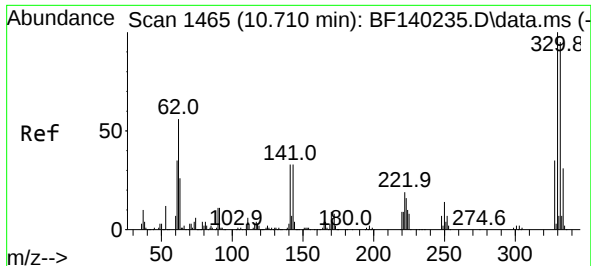
Tgt Ion: 82 Resp: 702821
Ion Ratio Lower Upper
82 100
95 0.2 6.0 9.0#
138 0.0 12.9 19.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:164 Resp: 246987
Ion Ratio Lower Upper
164 100
162 96.4 77.0 115.4
160 42.5 34.1 51.1





#42

2,4,6-Tribromophenol

Concen: 106.036 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.006 min

Lab File: BF140278.D

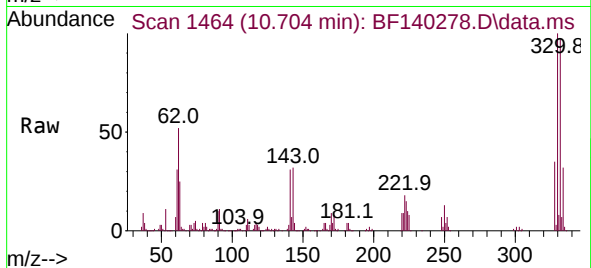
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Instrument :

BNA_F

ClientSampleId :

Z-04



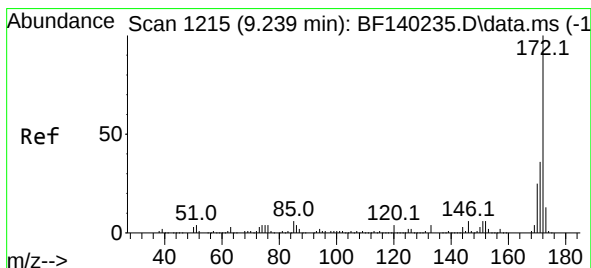
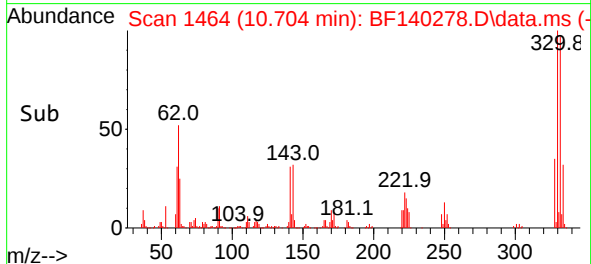
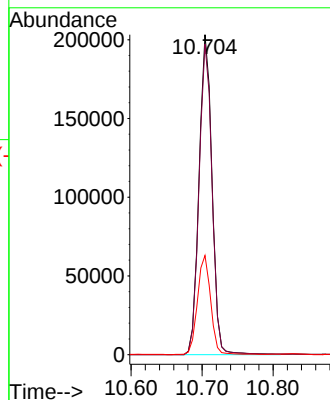
Tgt Ion:330 Resp: 258870

Ion Ratio Lower Upper

330 100

332 97.2 76.4 114.6

141 31.7 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 77.883 ng

RT: 9.234 min Scan# 1214

Delta R.T. -0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

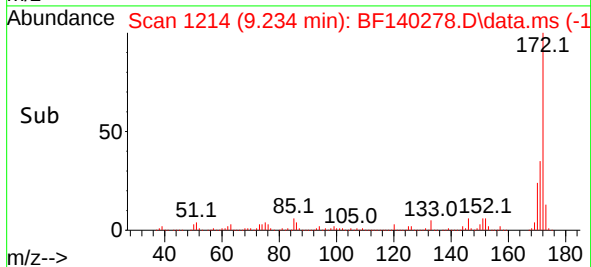
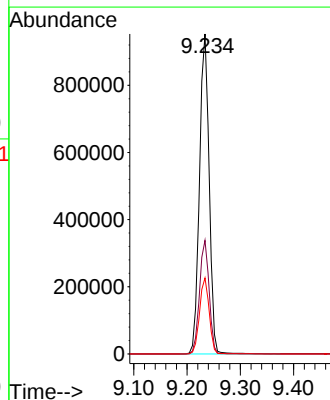
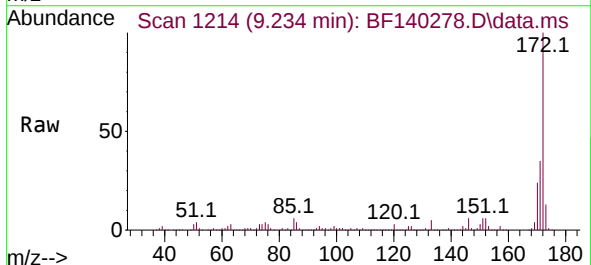
Tgt Ion:172 Resp: 1204664

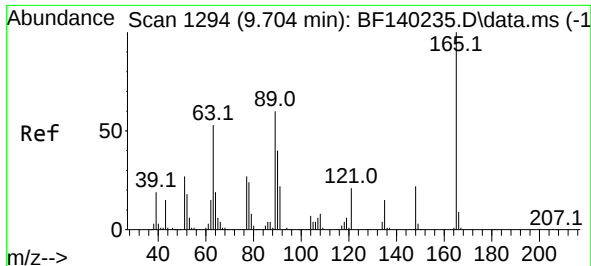
Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

170 23.8 19.6 29.4

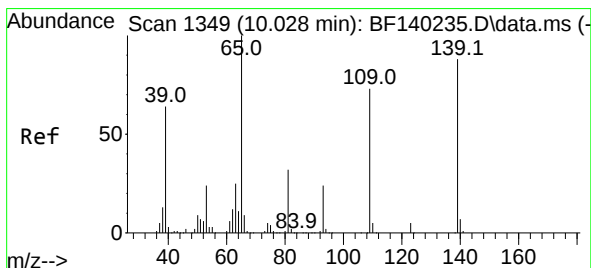
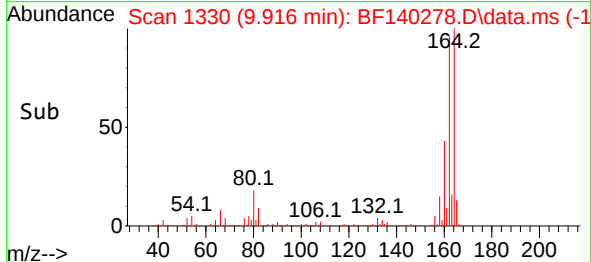
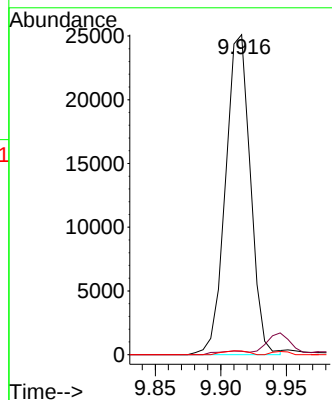
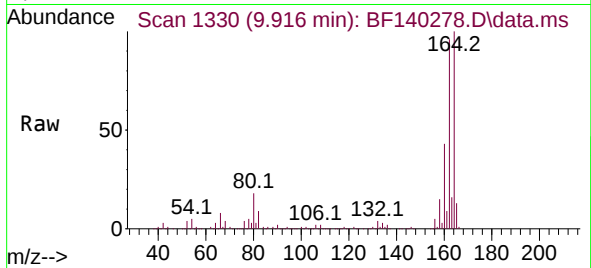




#51
2,6-Dinitrotoluene
Concen: 9.236 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

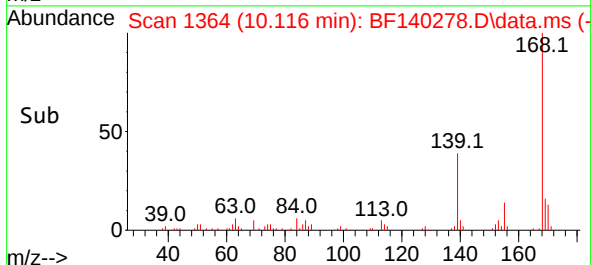
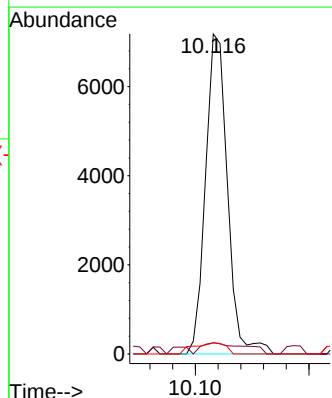
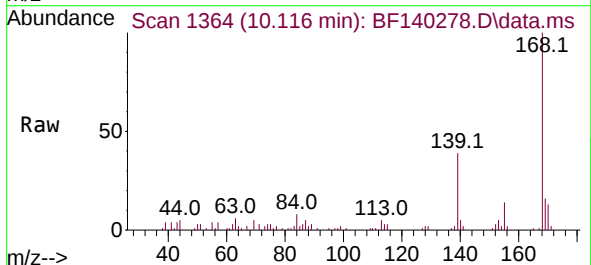
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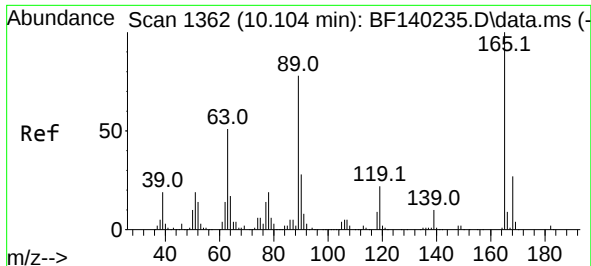
Tgt Ion:165 Resp: 33022
Ion Ratio Lower Upper
165 100
63 1.0 48.8 73.2#
89 1.1 48.1 72.1#



#56
4-Nitrophenol
Concen: 4.067 ng
RT: 10.116 min Scan# 1364
Delta R.T. 0.088 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:139 Resp: 9628
Ion Ratio Lower Upper
139 100
109 3.5 63.8 103.8#
65 3.5 94.7 134.7#

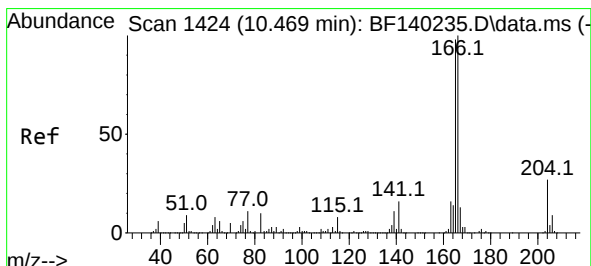
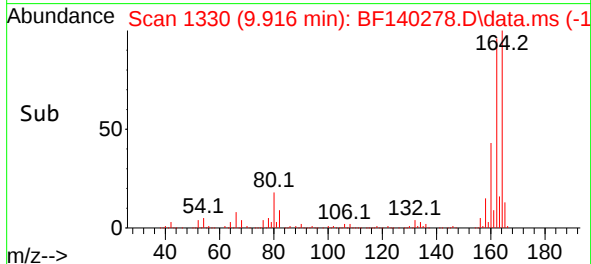
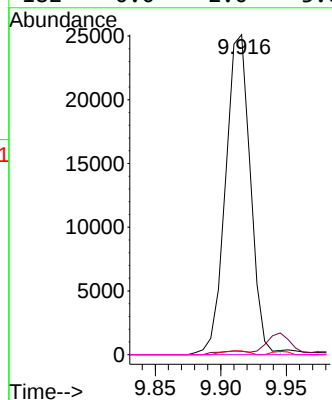
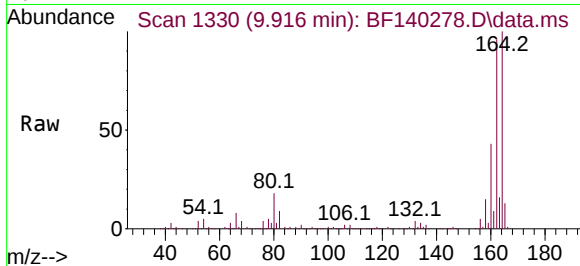




#57
2,4-Dinitrotoluene
Concen: 7.117 ng
RT: 9.916 min Scan# 11
Delta R.T. -0.188 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

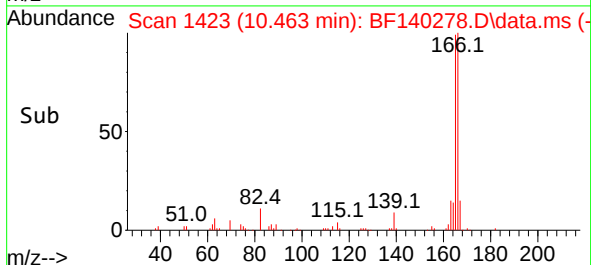
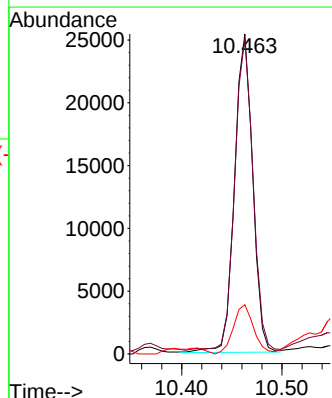
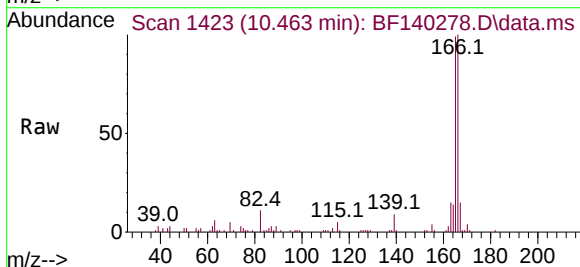
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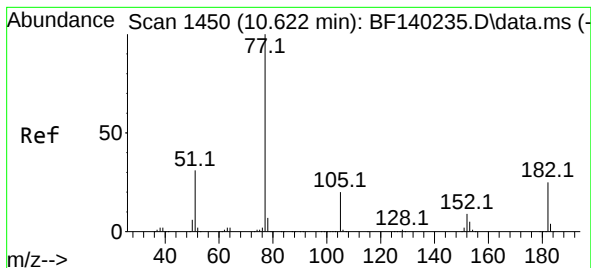
Tgt Ion:165 Resp: 33022
Ion Ratio Lower Upper
165 100
63 1.0 41.3 61.9#
89 1.1 62.6 94.0#
182 0.0 2.0 3.0#



#58
Fluorene
Concen: 2.130 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:166 Resp: 31986
Ion Ratio Lower Upper
166 100
165 98.6 78.7 118.1
167 15.4 10.8 16.2





#63

Azobenzene

Concen: 3.012 ng

RT: 10.628 min Scan# 1450

Delta R.T. 0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

Tgt Ion: 77 Resp: 47196

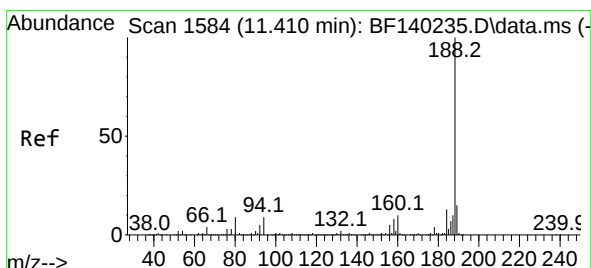
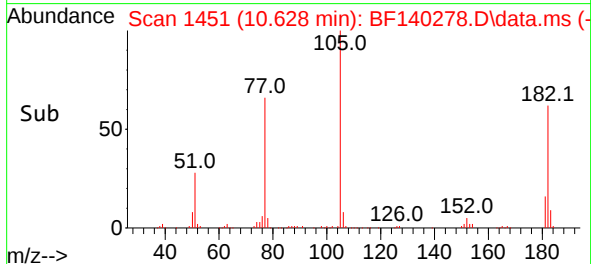
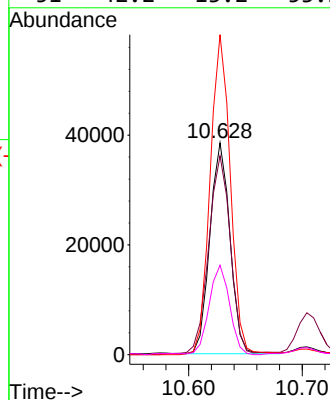
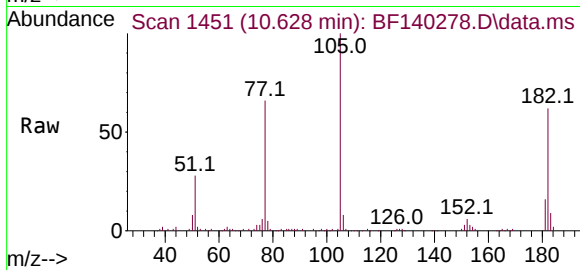
Ion Ratio Lower Upper

77 100

182 93.9 4.7 44.7#

105 151.0 0.0 40.0#

51 42.2 13.2 53.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1583

Delta R.T. -0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

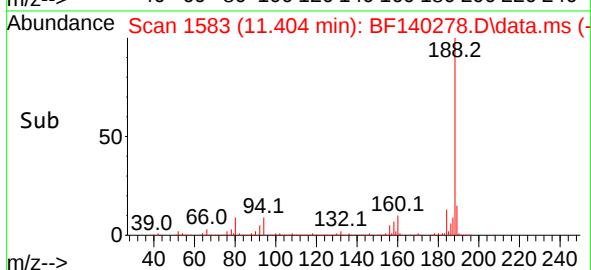
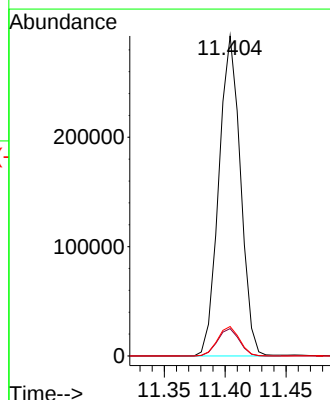
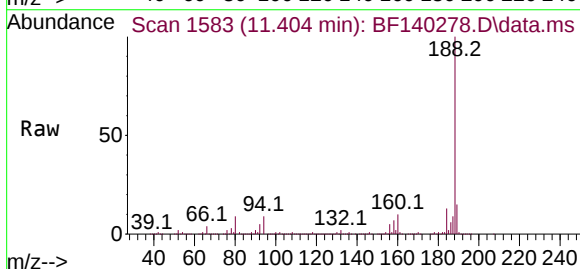
Tgt Ion: 188 Resp: 362206

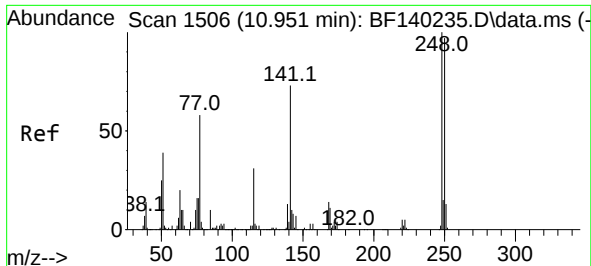
Ion Ratio Lower Upper

188 100

94 8.5 6.9 10.3

80 9.2 7.5 11.3

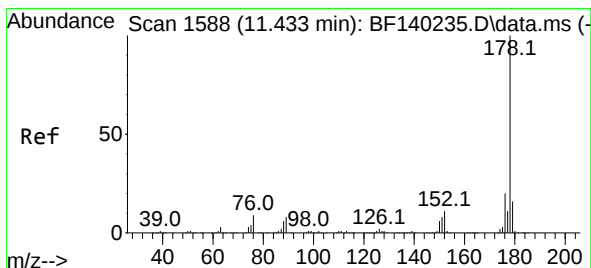
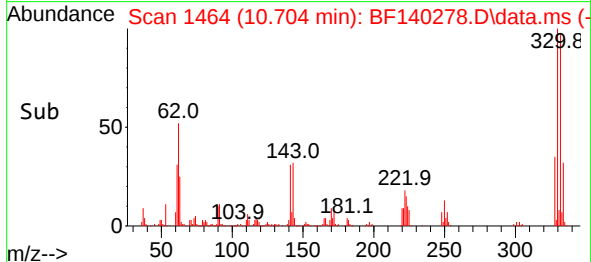
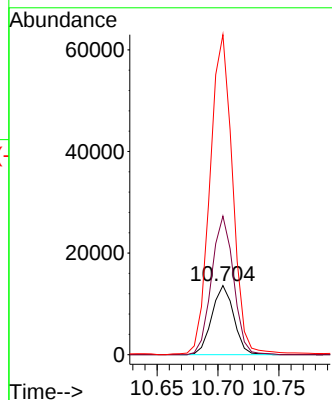
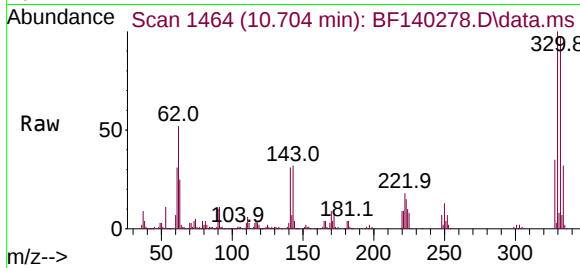




#67
4-Bromophenyl-phenylether
Concen: 4.373 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.247 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

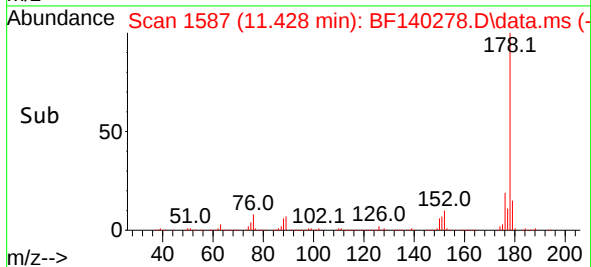
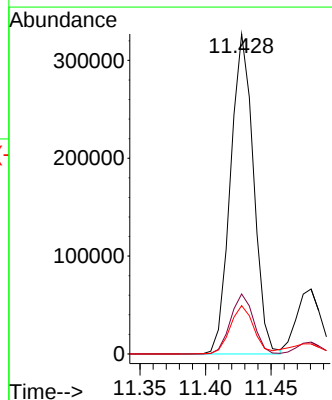
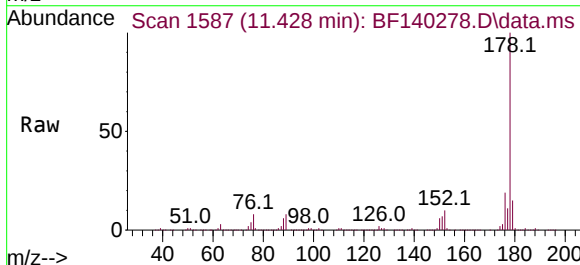
Instrument :
BNA_F
ClientSampleId :
Z-04

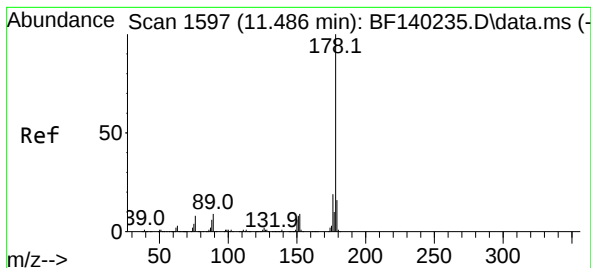
Tgt Ion:248 Resp: 17058
Ion Ratio Lower Upper
248 100
250 200.6 77.9 116.9#
141 463.3 58.6 88.0#



#71
Phenanthrene
Concen: 23.118 ng
RT: 11.428 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:178 Resp: 399618
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.1 12.6 18.8





#72

Anthracene

Concen: 5.084 ng

RT: 11.480 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

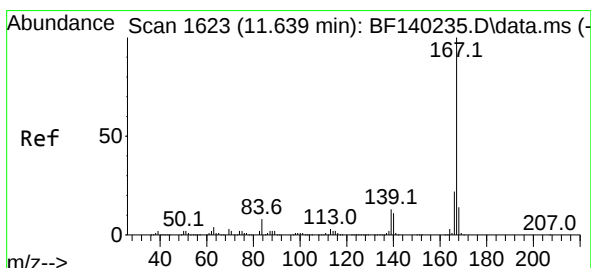
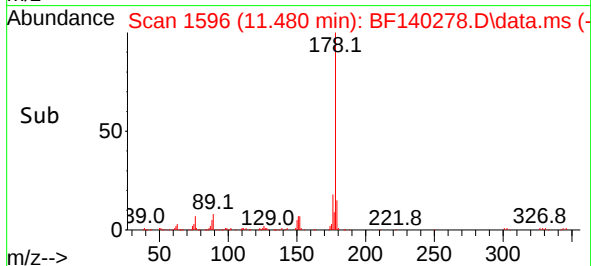
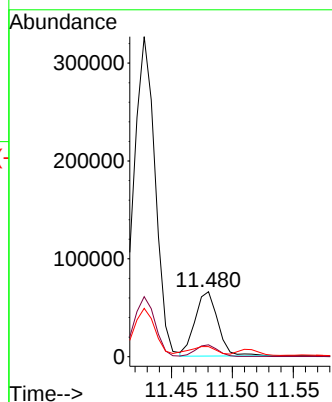
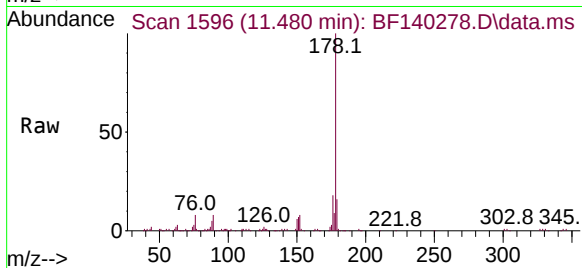
Tgt Ion:178 Resp: 86165

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.0

179 15.5 12.7 19.1



#73

Carbazole

Concen: 2.786 ng

RT: 11.633 min Scan# 1622

Delta R.T. -0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

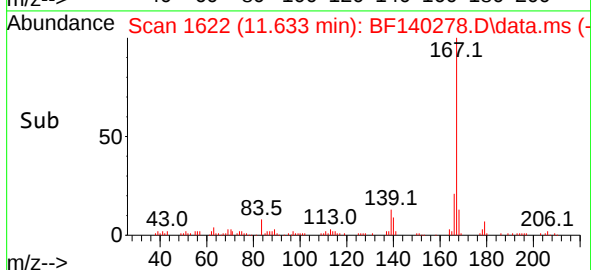
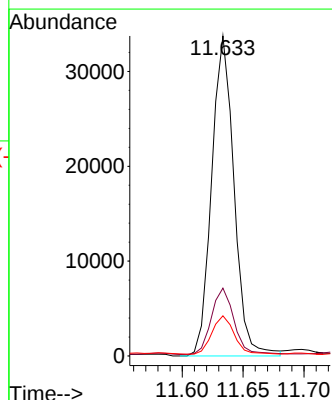
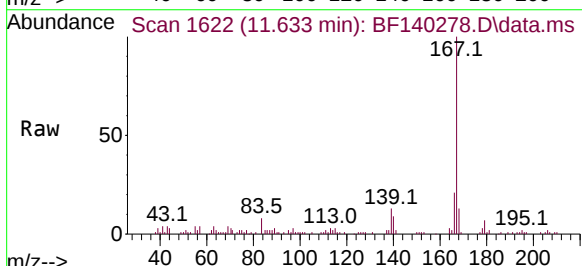
Tgt Ion:167 Resp: 43153

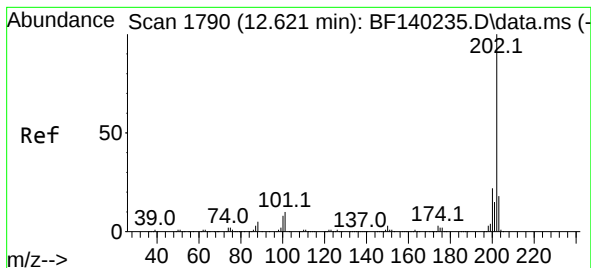
Ion Ratio Lower Upper

167 100

166 21.2 17.3 25.9

139 12.6 10.7 16.1





#75

Fluoranthene

Concen: 30.262 ng

RT: 12.622 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

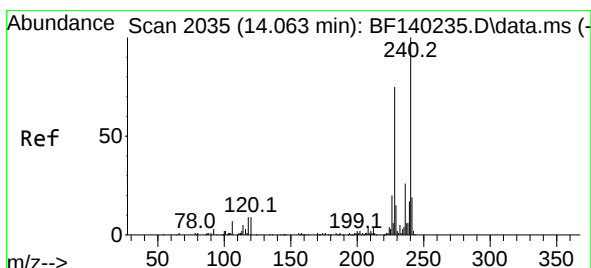
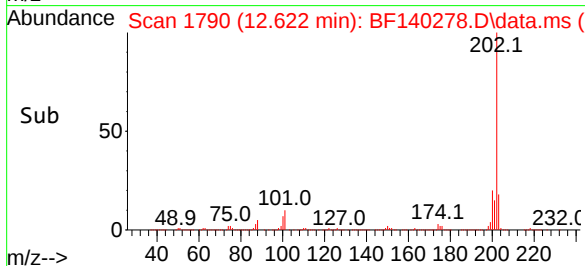
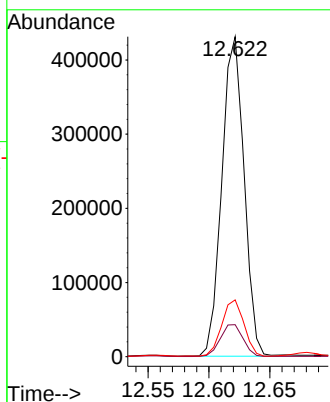
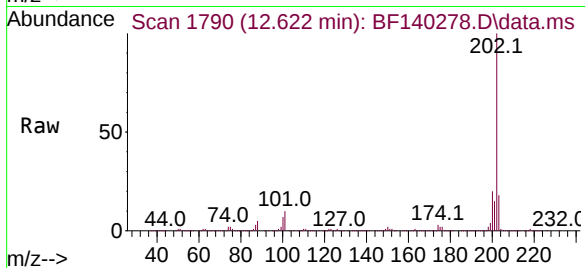
Tgt Ion:202 Resp: 546968

Ion Ratio Lower Upper

202 100

101 10.0 0.0 30.4

203 17.7 0.0 38.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

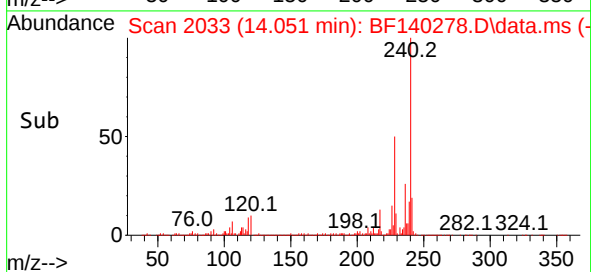
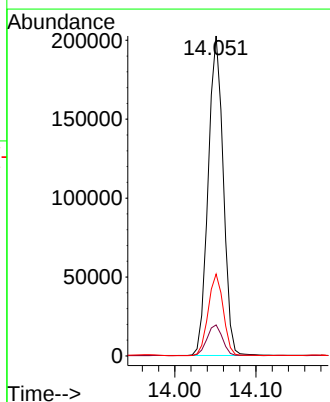
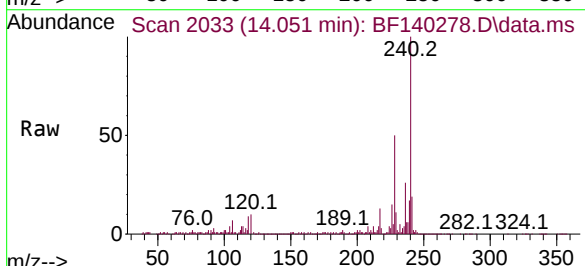
Tgt Ion:240 Resp: 260342

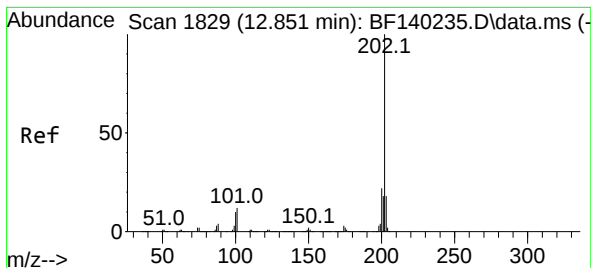
Ion Ratio Lower Upper

240 100

120 9.7 7.5 11.3

236 25.6 20.9 31.3





#78

Pyrene

Concen: 22.746 ng

RT: 12.851 min Scan# 1829

Delta R.T. 0.000 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

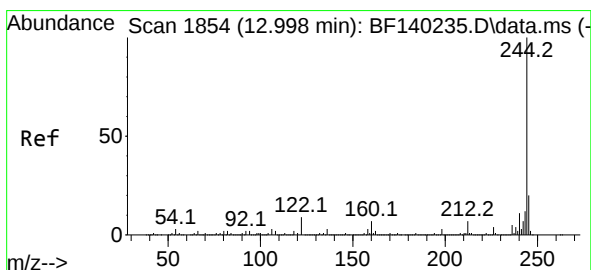
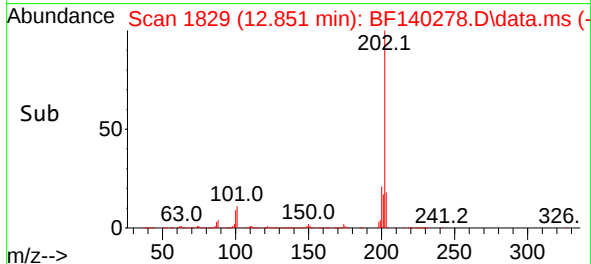
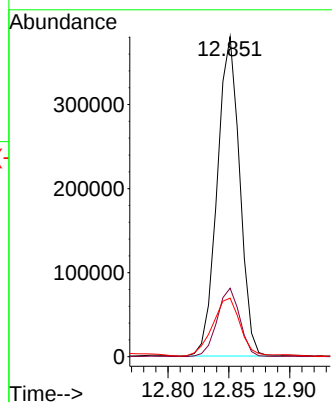
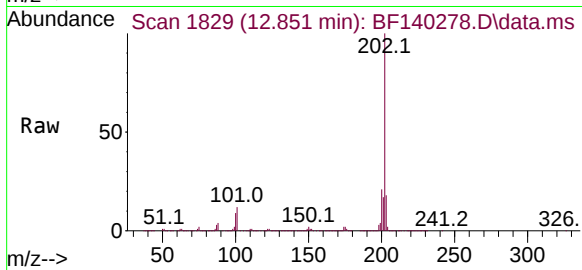
Tgt Ion:202 Resp: 488951

Ion Ratio Lower Upper

202 100

200 21.4 17.5 26.3

203 18.3 14.4 21.6



#79

Terphenyl-d14

Concen: 60.182 ng

RT: 12.992 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

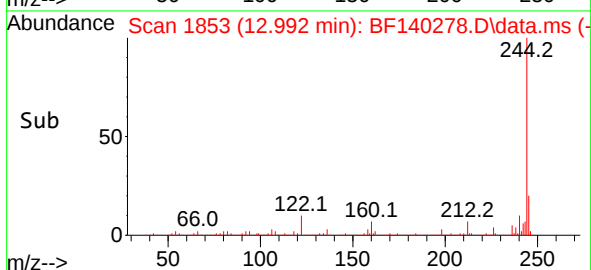
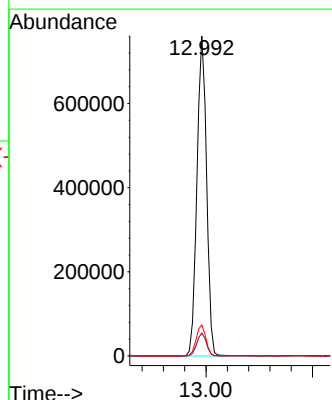
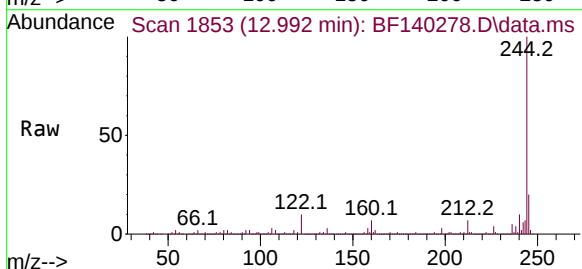
Tgt Ion:244 Resp: 956445

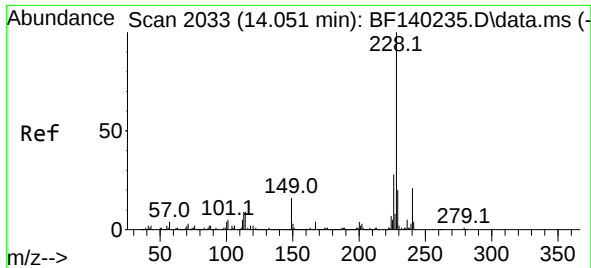
Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 9.7 7.6 11.4

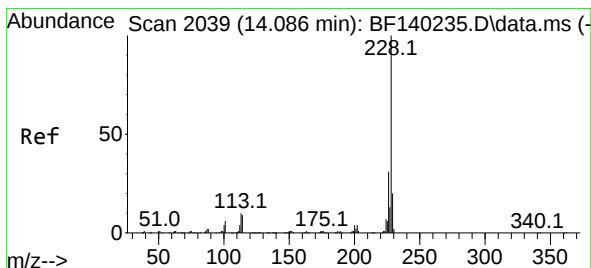
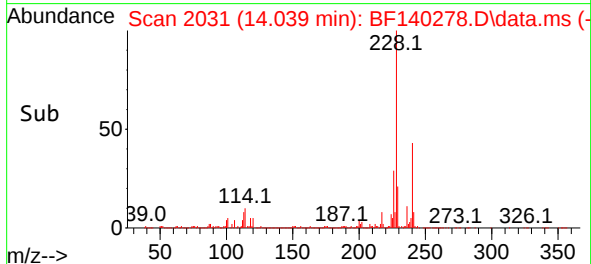
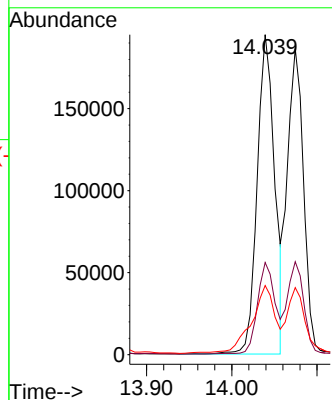
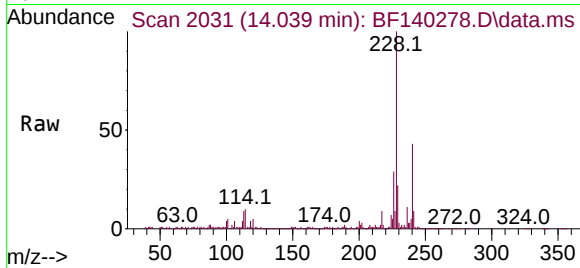




#81
Benzo(a)anthracene
Concen: 16.716 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

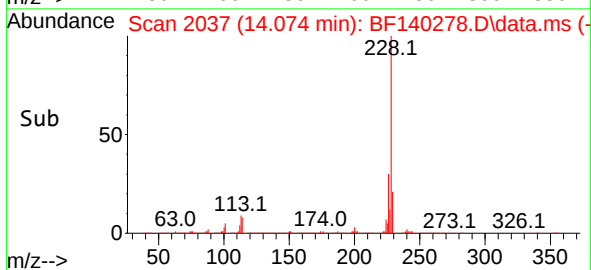
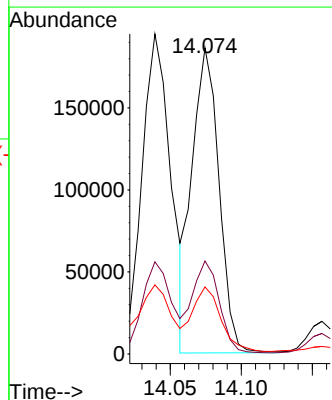
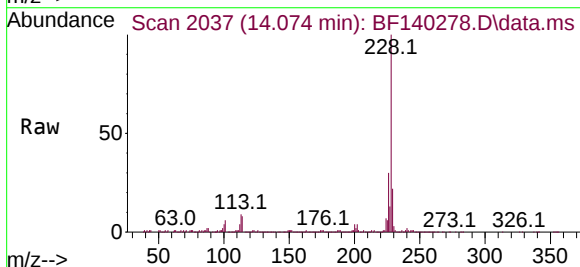
Instrument :
BNA_F
ClientSampleId :
Z-04

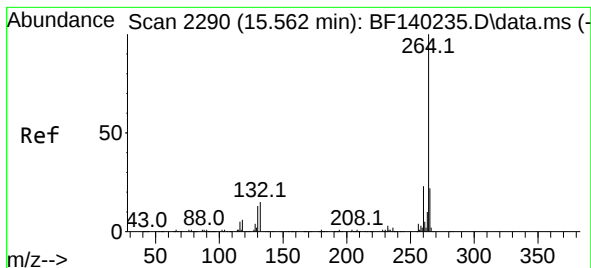
Tgt Ion:228 Resp: 279282
Ion Ratio Lower Upper
228 100
226 28.8 22.3 33.5
229 21.6 16.1 24.1



#83
Chrysene
Concen: 15.613 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.012 min
Lab File: BF140278.D
Acq: 07 Nov 2024 16:39

Tgt Ion:228 Resp: 244284
Ion Ratio Lower Upper
228 100
226 30.4 24.6 36.8
229 21.9 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

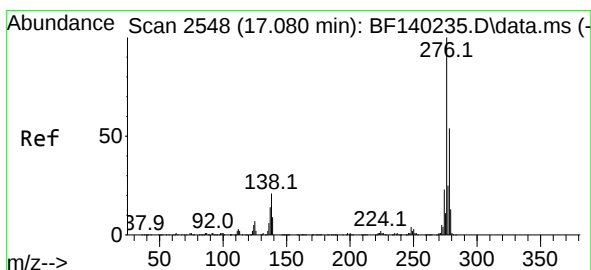
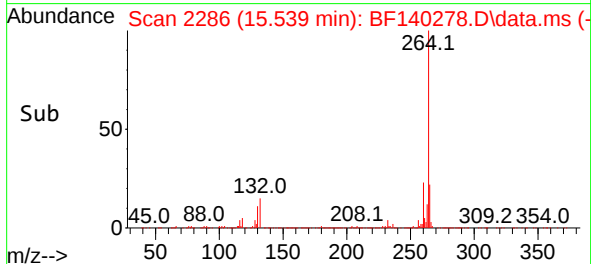
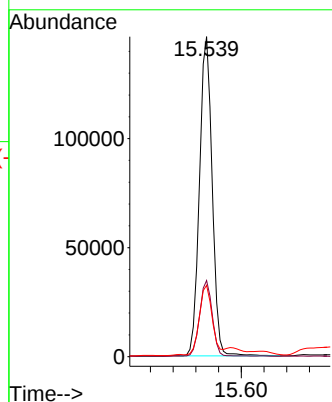
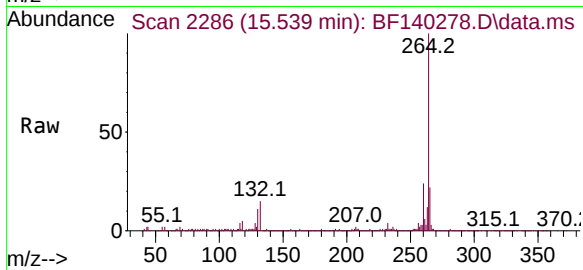
Tgt Ion:264 Resp: 227502

Ion Ratio Lower Upper

264 100

260 23.8 18.8 28.2

265 22.3 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.295 ng

RT: 17.033 min Scan# 2540

Delta R.T. -0.047 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

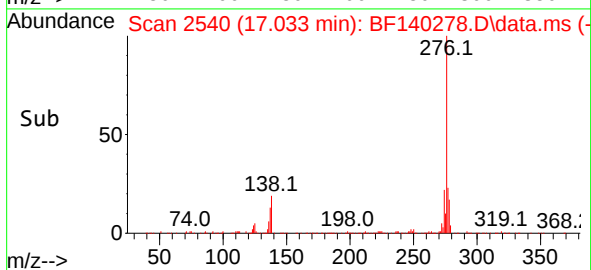
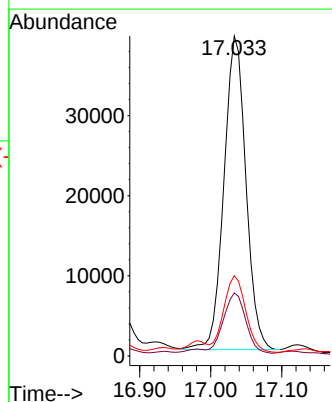
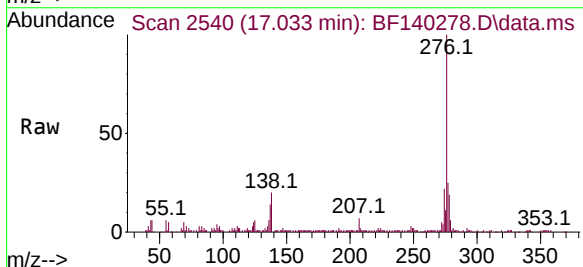
Tgt Ion:276 Resp: 84059

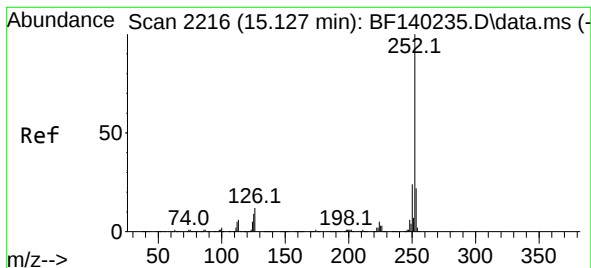
Ion Ratio Lower Upper

276 100

138 19.4 17.6 26.4

277 24.5 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 26.482 ng

RT: 15.104 min Scan# 2112

Delta R.T. -0.023 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

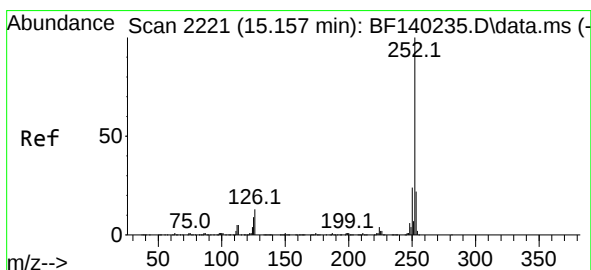
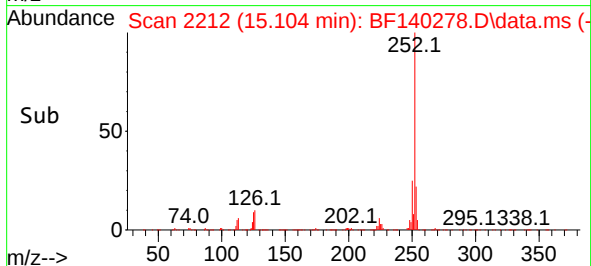
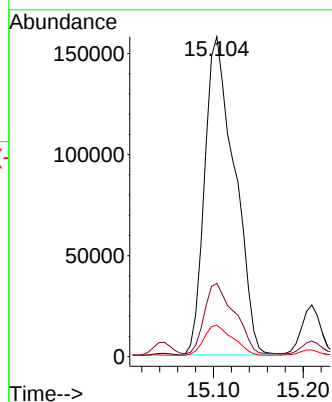
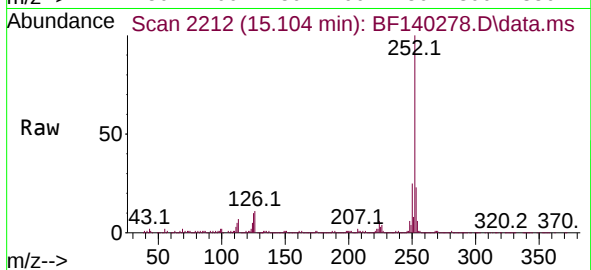
Tgt Ion:252 Resp: 364421

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

125 9.8 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 28.860 ng

RT: 15.104 min Scan# 2212

Delta R.T. -0.053 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

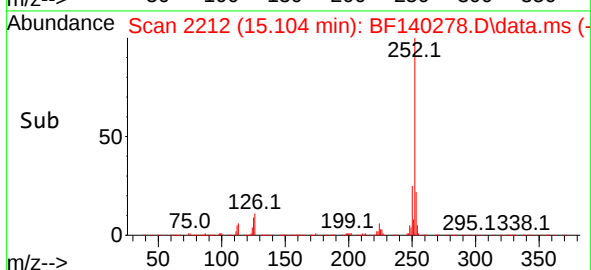
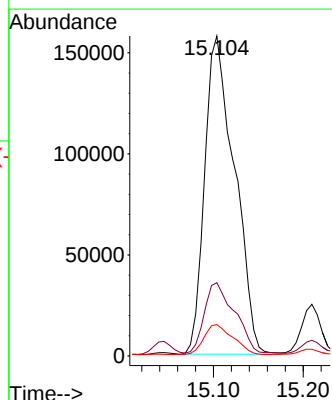
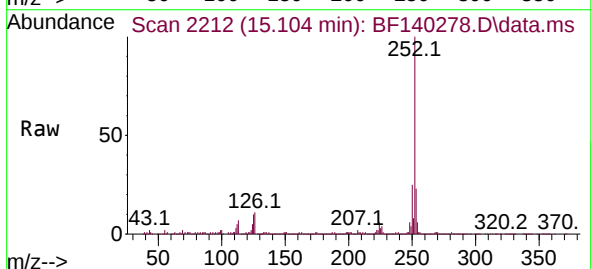
Tgt Ion:252 Resp: 364421

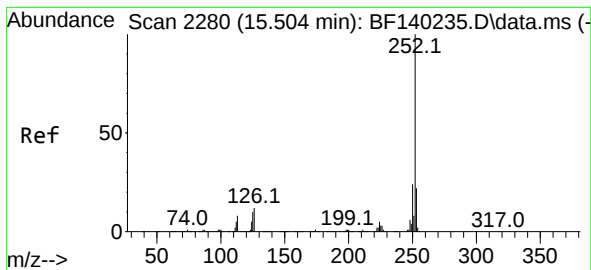
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 9.8 7.2 10.8





#90

Benzo(a)pyrene

Concen: 15.843 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Instrument :

BNA_F

ClientSampleId :

Z-04

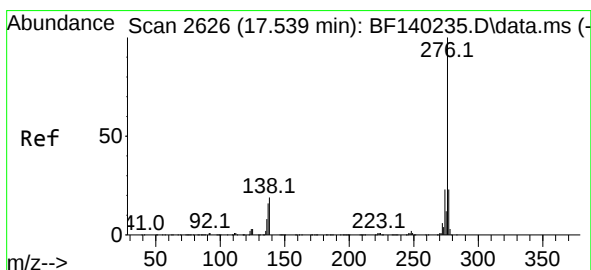
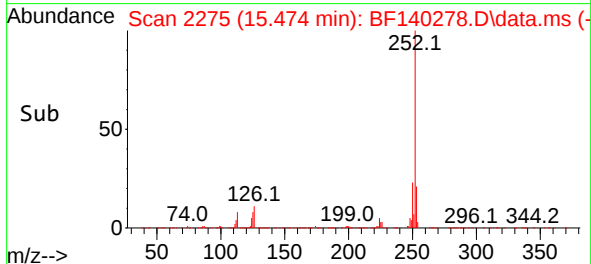
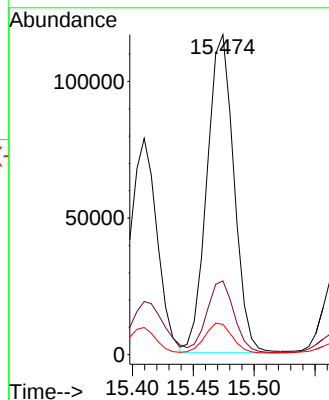
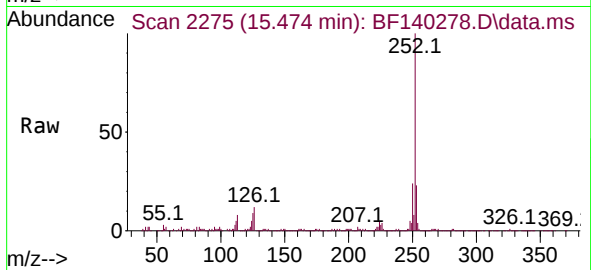
Tgt Ion:252 Resp: 179747

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 9.5 7.6 11.4



#92

Benzo(g,h,i)perylene

Concen: 6.998 ng

RT: 17.492 min Scan# 2618

Delta R.T. -0.047 min

Lab File: BF140278.D

Acq: 07 Nov 2024 16:39

Tgt Ion:276 Resp: 78431

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 17.8 15.3 22.9

