

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092024\
 Data File : BF139498.D
 Acq On : 20 Sep 2024 13:19
 Operator : RC/JU
 Sample : P4103-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-14-5-7.5A

Quant Time: Sep 20 13:42:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 14 02:58:23 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	77808	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	274750	20.000	ng	# 0.00
39) Acenaphthene-d10	9.916	164	127776	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	192815	20.000	ng	# 0.00
76) Chrysene-d12	14.033	240	138154	20.000	ng	# 0.00
86) Perylene-d12	15.510	264	99507	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	345449	72.428	ng	0.00
7) Phenol-d6	6.504	99	462862	73.935	ng	0.00
23) Nitrobenzene-d5	7.439	82	308262	52.746	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	71466	52.536	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	499069	54.780	ng	0.00
79) Terphenyl-d14	12.980	244	425490	50.552	ng	0.00
Target Compounds						Qvalue
18) Hexachloroethane	7.410	117	19260	8.962	ng	# 1
22) Acetophenone	7.269	105	17703	2.465	ng	# 46
25) Isophorone	7.775	82	31519	3.410	ng	# 67
35) Caprolactam	8.581	113	14904	12.338	ng	# 16
37) 2-Methylnaphthalene	8.875	142	199809	21.947	ng	100
38) 1-Methylnaphthalene	8.969	142	175753	19.663	ng	100
52) Acenaphthene	9.945	154	25063	3.246	ng	# 74
55) Dibenzofuran	10.122	168	30219	2.808	ng	# 35
56) 4-Nitrophenol	10.022	139	13182	8.580	ng	# 42
57) 2,4-Dinitrotoluene	10.116	165	7723	3.079	ng	# 50
58) Fluorene	10.463	166	49715	5.661	ng	# 86
63) Azobenzene	10.628	77	23265	2.733	ng	# 1
66) n-Nitrosodiphenylamine	10.575	169	74817	13.272	ng	# 54
71) Phenanthrene	11.427	178	190425	20.470	ng	98
72) Anthracene	11.427	178	190425	20.937	ng	97
75) Fluoranthene	12.616	202	154999	15.602	ng	97
78) Pyrene	12.839	202	163231	13.760	ng	97
81) Benzo(a)anthracene	14.027	228	54148	5.917	ng	# 92
83) Chrysene	14.063	228	41394	4.917	ng	# 95
87) Indeno(1,2,3-cd)pyrene	16.980	276	12546	2.120	ng	97
88) Benzo(b)fluoranthene	15.080	252	49034	7.990	ng	# 93
89) Benzo(k)fluoranthene	15.080	252	49034	8.666	ng	# 92
90) Benzo(a)pyrene	15.445	252	24628	4.839	ng	# 92
92) Benzo(g,h,i)perylene	17.427	276	14522	3.000	ng	# 95

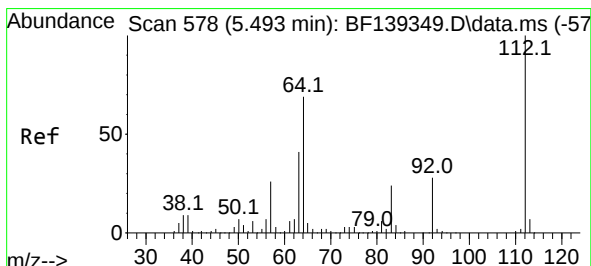
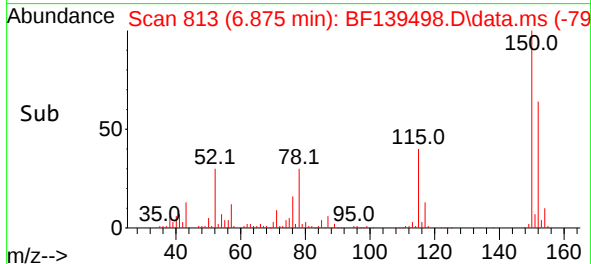
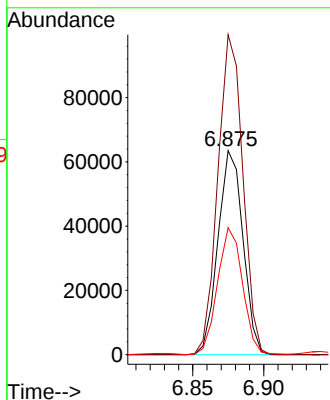
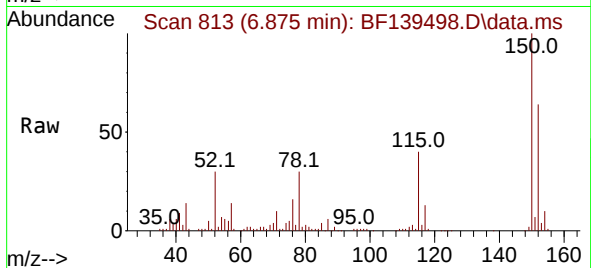
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

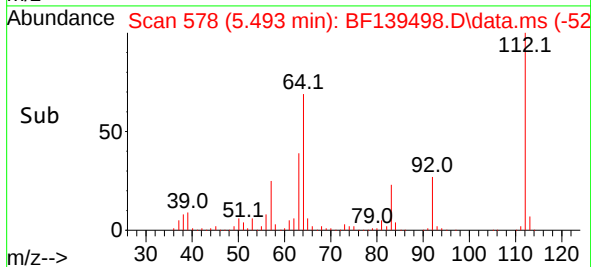
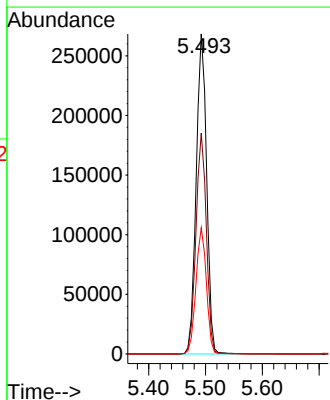
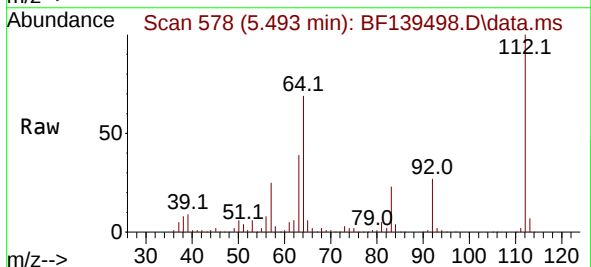
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

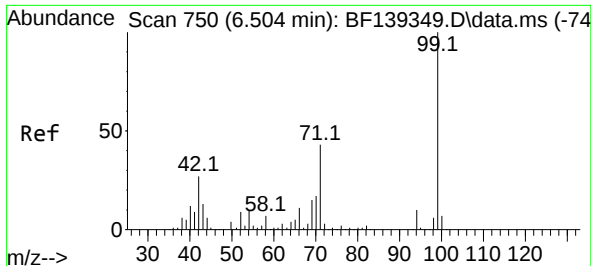
Tgt Ion:152 Resp: 77808
Ion Ratio Lower Upper
152 100
150 156.9 124.1 186.1
115 62.3 48.1 72.1



#5
2-Fluorophenol
Concen: 72.428 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:112 Resp: 345449
Ion Ratio Lower Upper
112 100
64 69.0 54.8 82.2
63 39.4 33.0 49.4

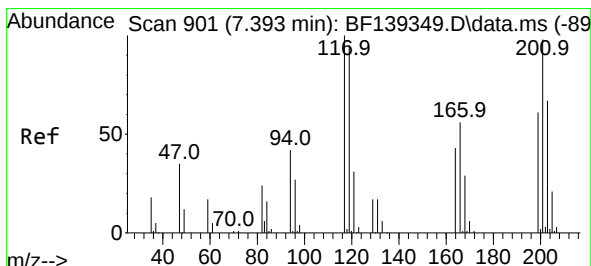
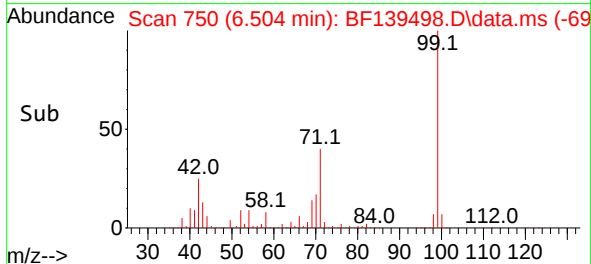
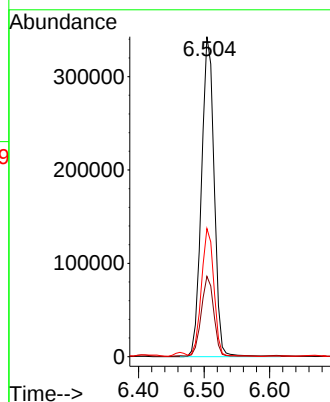
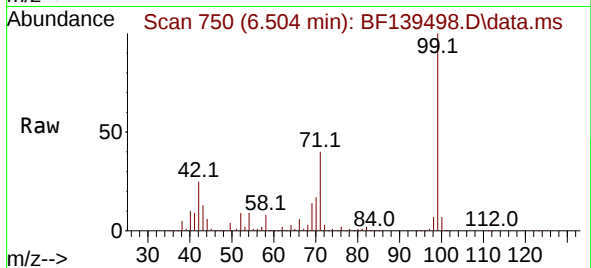




#7
Phenol-d6
Concen: 73.935 ng
RT: 6.504 min Scan# 711
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

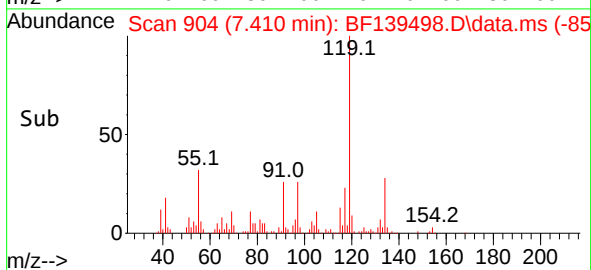
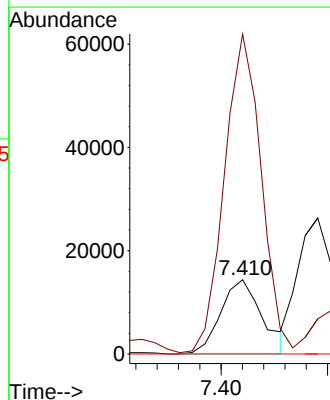
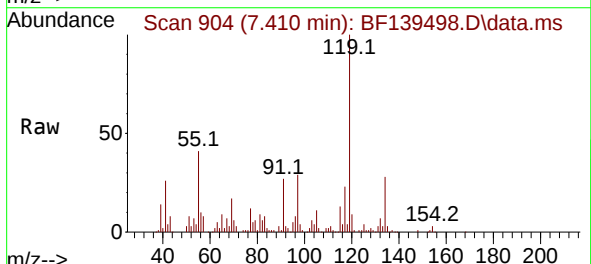
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

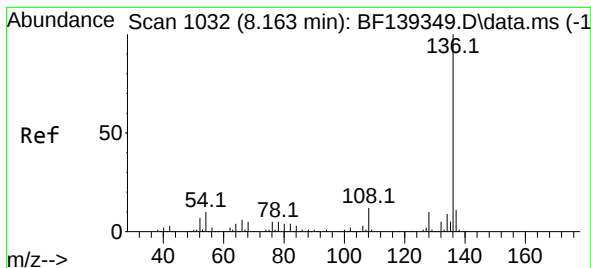
Tgt Ion: 99 Resp: 462862
Ion Ratio Lower Upper
99 100
42 25.1 21.9 32.9
71 40.0 34.6 52.0



#18
Hexachloroethane
Concen: 8.962 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.018 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion: 117 Resp: 19260
Ion Ratio Lower Upper
117 100
119 431.4 75.8 113.8#
201 0.0 78.6 118.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

Tgt Ion:136 Resp: 274750

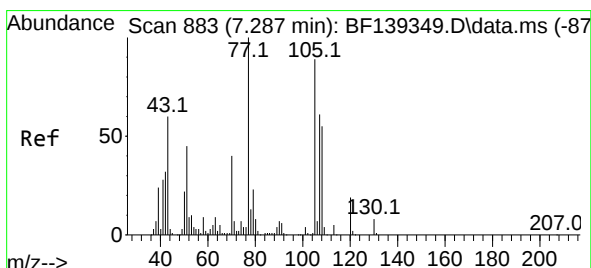
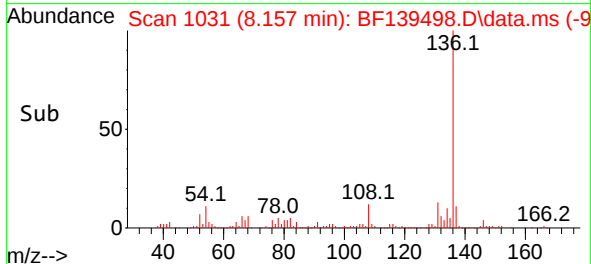
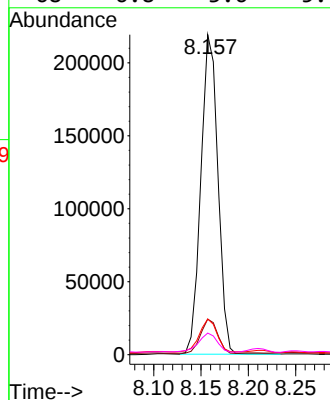
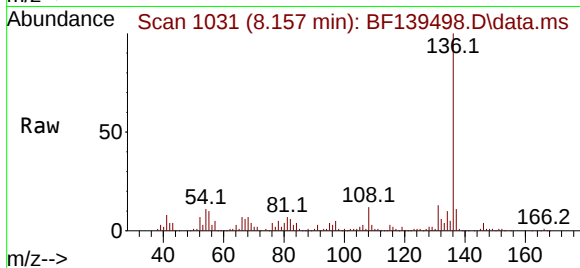
Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

54 11.2 7.8 11.8

68 6.8 3.6 5.4#



#22

Acetophenone

Concen: 2.465 ng

RT: 7.269 min Scan# 880

Delta R.T. -0.018 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Tgt Ion:105 Resp: 17703

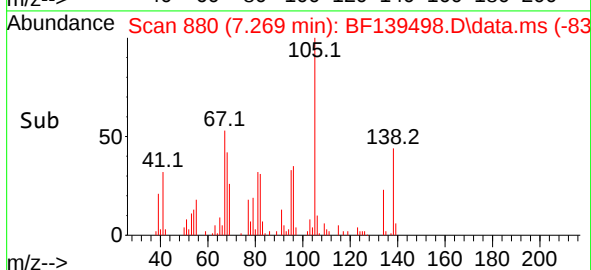
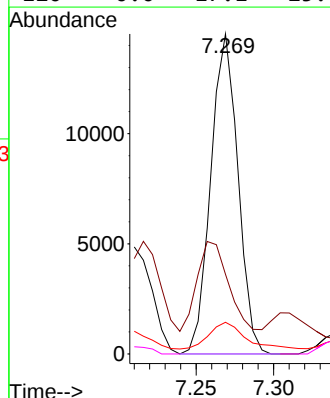
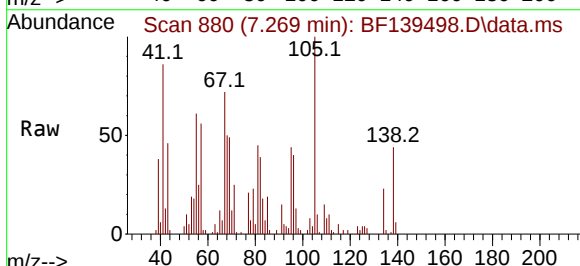
Ion Ratio Lower Upper

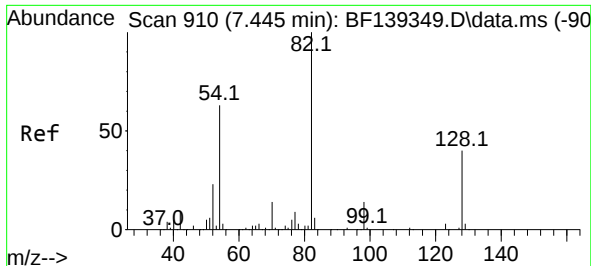
105 100

71 24.9 5.9 8.9#

51 9.9 40.0 60.0#

120 0.0 17.1 25.7#

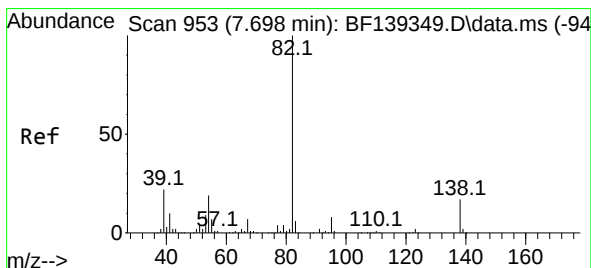
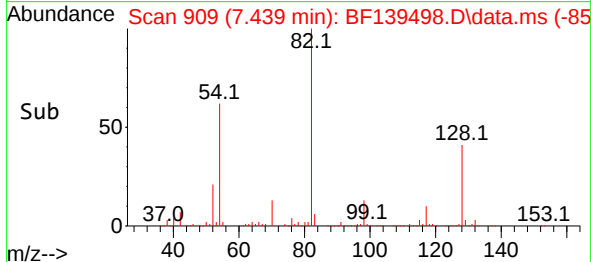
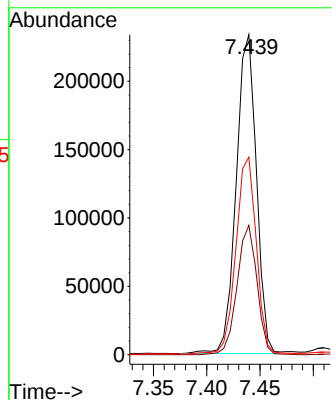
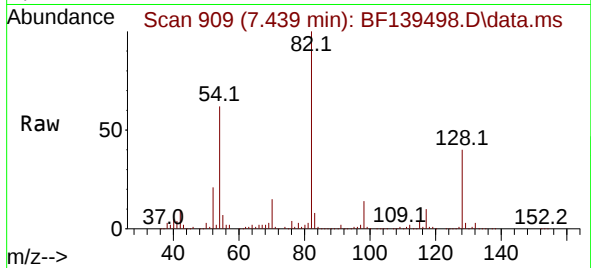




#23
Nitrobenzene-d5
Concen: 52.746 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

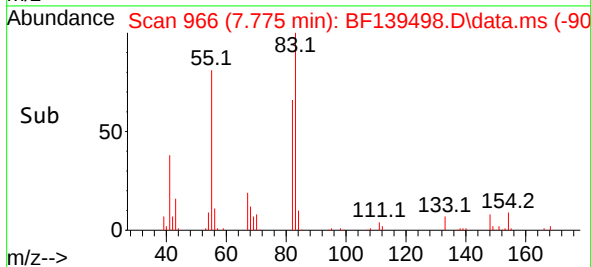
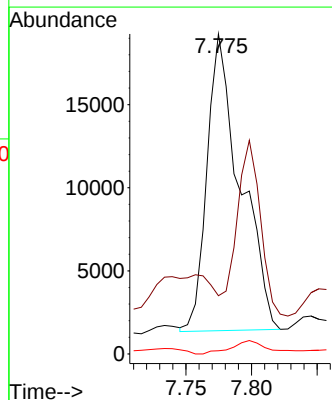
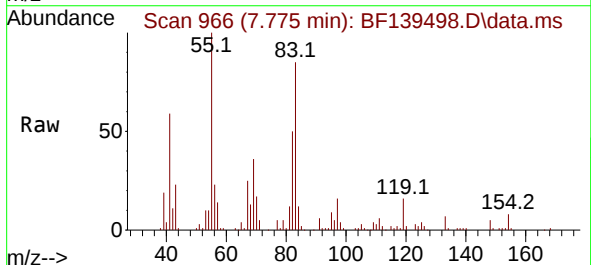
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

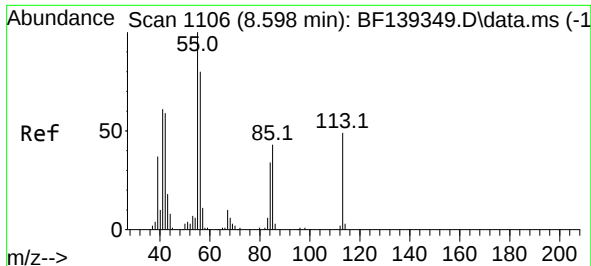
Tgt Ion: 82 Resp: 308262
Ion Ratio Lower Upper
82 100
128 40.4 31.8 47.6
54 61.8 50.6 75.8



#25
Isophorone
Concen: 3.410 ng
RT: 7.775 min Scan# 966
Delta R.T. 0.076 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion: 82 Resp: 31519
Ion Ratio Lower Upper
82 100
95 18.2 6.7 10.1#
138 1.0 13.3 19.9#

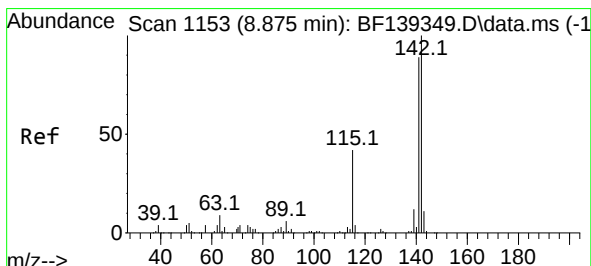
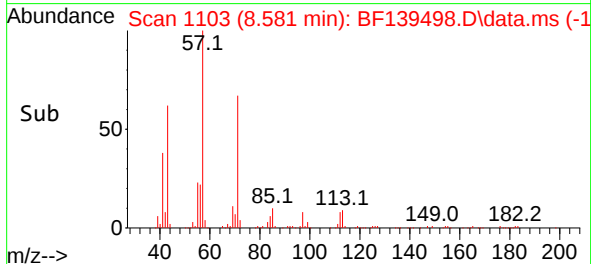
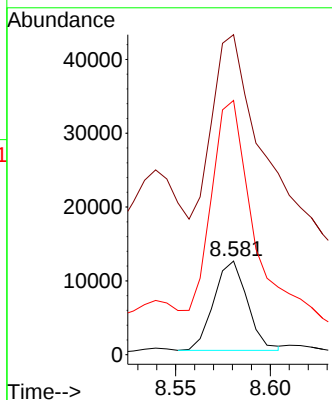
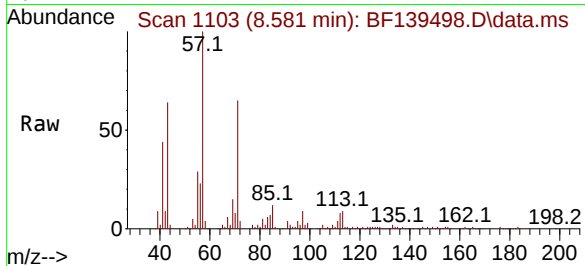




#35
 Caprolactam
 Concen: 12.338 ng
 RT: 8.581 min Scan# 1103
 Delta R.T. -0.018 min
 Lab File: BF139498.D
 Acq: 20 Sep 2024 13:19

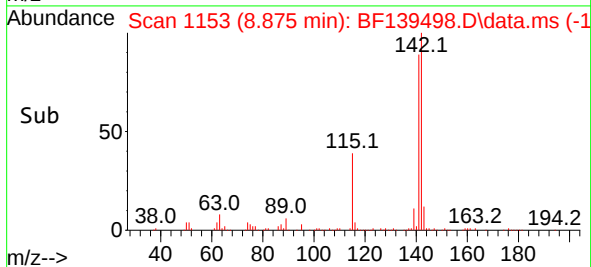
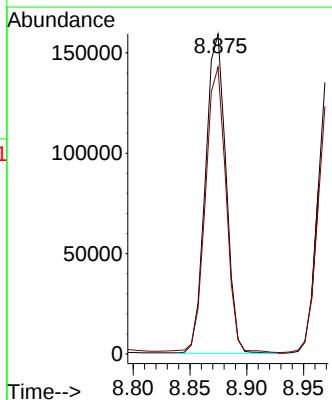
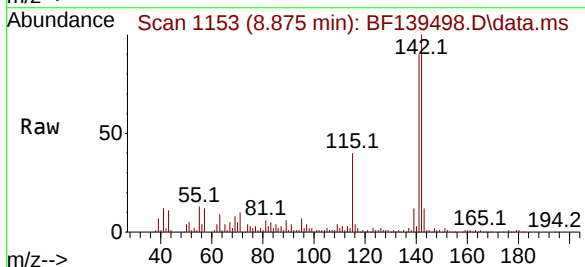
Instrument :
 BNA_F
 ClientSampleId :
 WC-14-5-7.5A

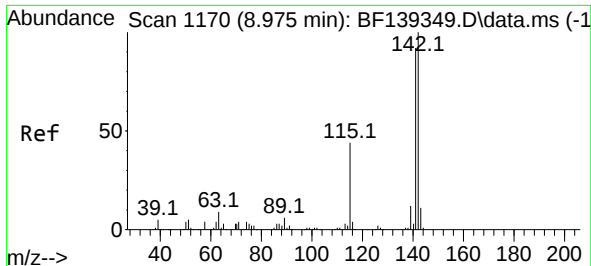
Tgt Ion:113 Resp: 14904
 Ion Ratio Lower Upper
 113 100
 55 341.8 186.1 226.1#
 56 271.5 144.9 184.9#



#37
 2-Methylnaphthalene
 Concen: 21.947 ng
 RT: 8.875 min Scan# 1153
 Delta R.T. -0.000 min
 Lab File: BF139498.D
 Acq: 20 Sep 2024 13:19

Tgt Ion:142 Resp: 199809
 Ion Ratio Lower Upper
 142 100
 141 89.6 71.6 107.4

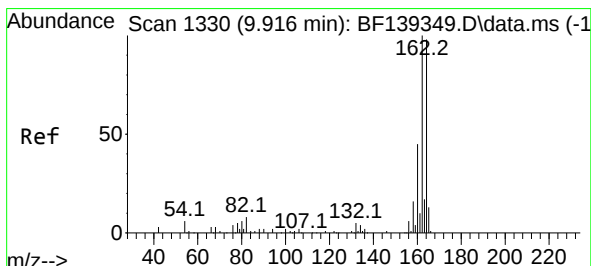
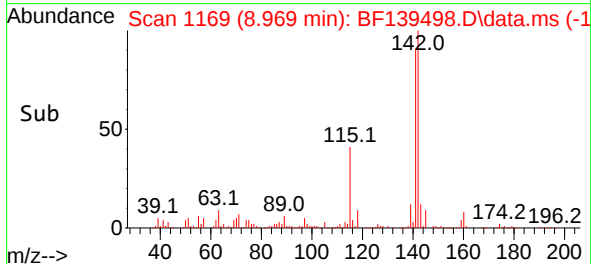
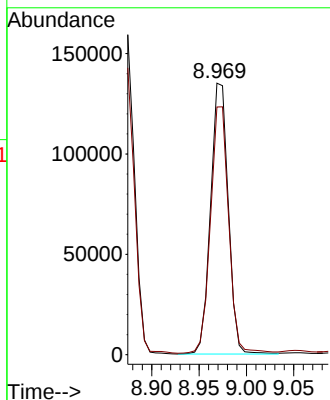
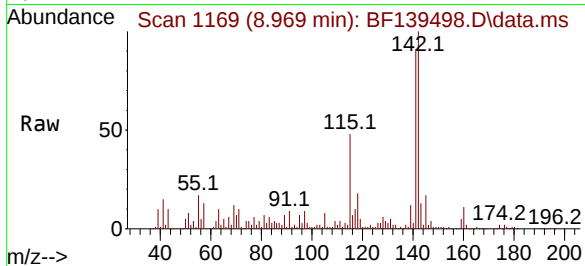




#38
1-Methylnaphthalene
Concen: 19.663 ng
RT: 8.969 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

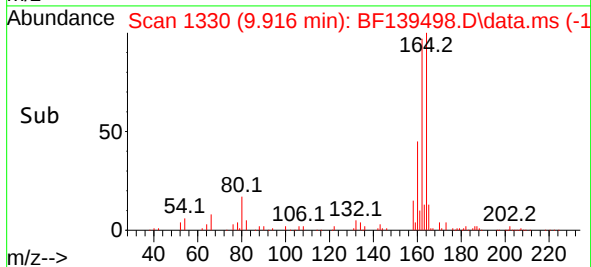
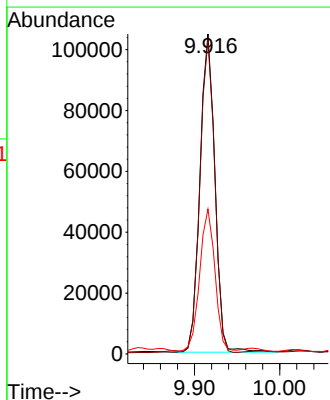
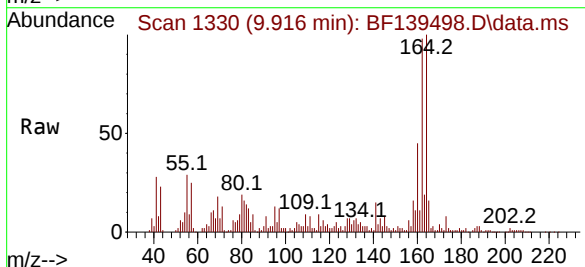
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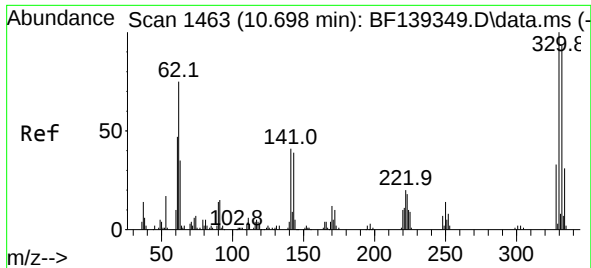
Tgt Ion:142 Resp: 175753
Ion Ratio Lower Upper
142 100
141 91.2 73.2 109.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:164 Resp: 127776
Ion Ratio Lower Upper
164 100
162 98.3 81.3 121.9
160 45.2 36.4 54.6

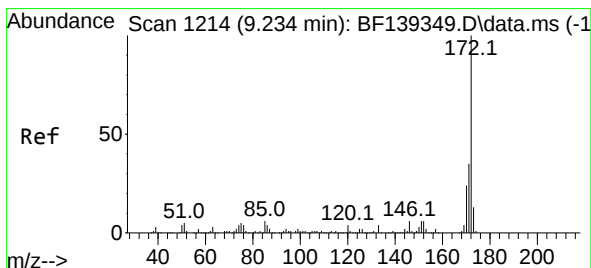
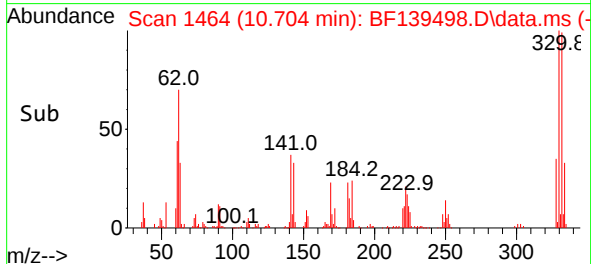
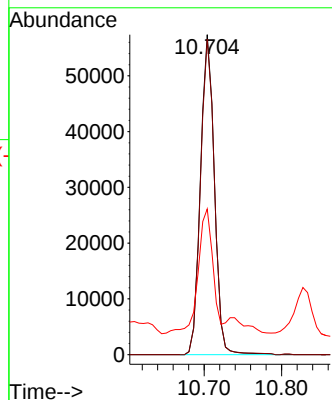
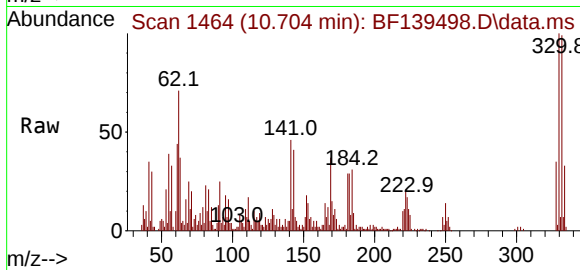




#42
2,4,6-Tribromophenol
Concen: 52.536 ng
RT: 10.704 min Scan# 1464
Delta R.T. 0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

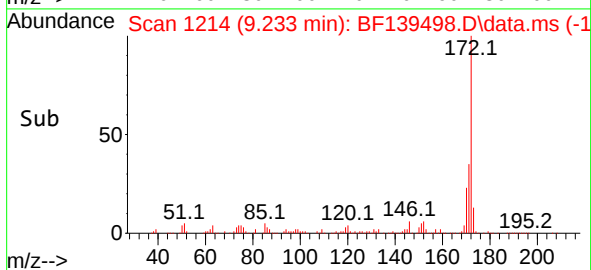
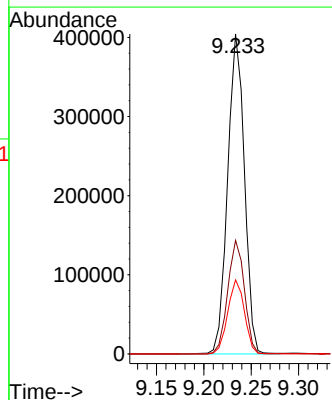
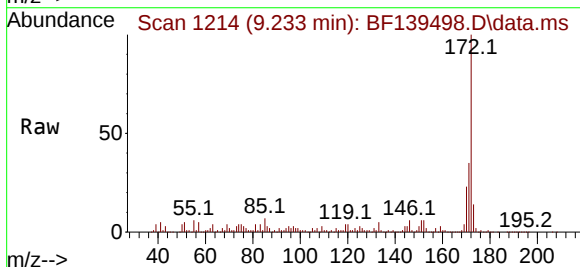
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

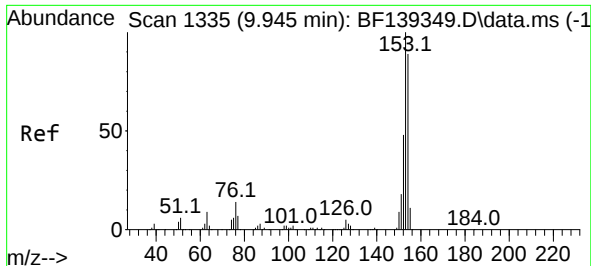
Tgt Ion: 330 Resp: 71466
Ion Ratio Lower Upper
330 100
332 99.0 75.2 112.8
141 42.3 31.2 46.8



#45
2-Fluorobiphenyl
Concen: 54.780 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion: 172 Resp: 499069
Ion Ratio Lower Upper
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171 35.5 28.3 42.5
170 23.1 19.0 28.6

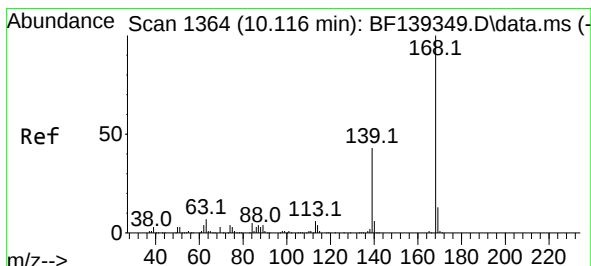
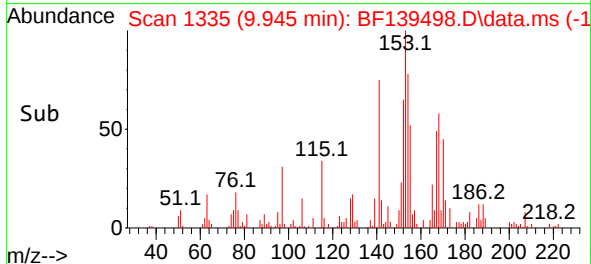
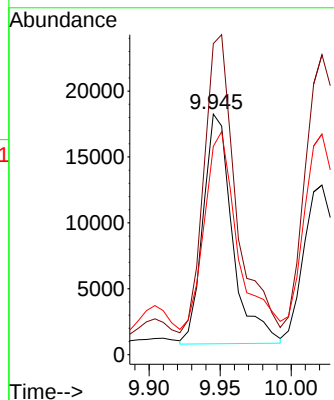
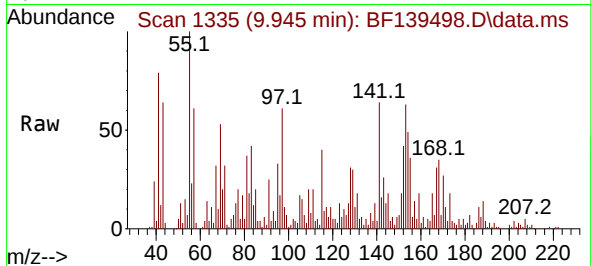




#52
Acenaphthene
Concen: 3.246 ng
RT: 9.945 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

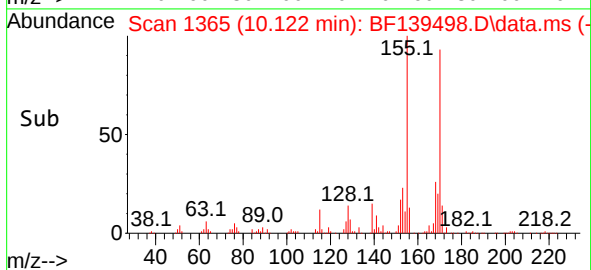
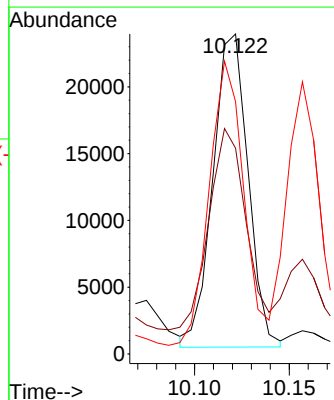
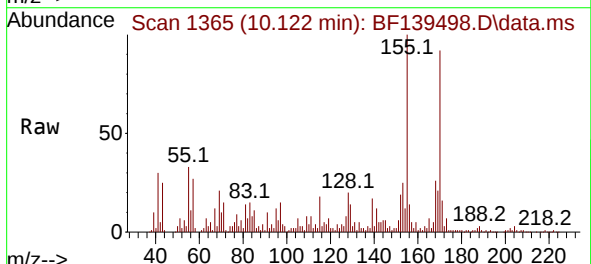
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

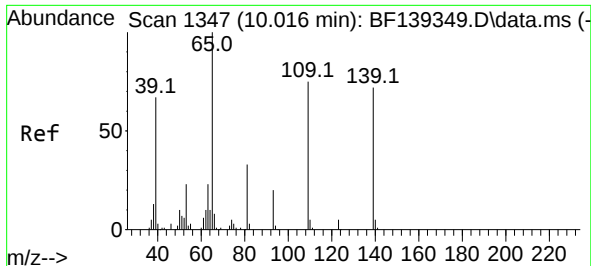
Tgt Ion:154 Resp: 25063
Ion Ratio Lower Upper
154 100
153 129.3 89.5 134.3
152 86.6 42.6 64.0#



#55
Dibenzofuran
Concen: 2.808 ng
RT: 10.122 min Scan# 1365
Delta R.T. 0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:168 Resp: 30219
Ion Ratio Lower Upper
168 100
139 64.3 34.1 51.1#
169 78.8 10.5 15.7#

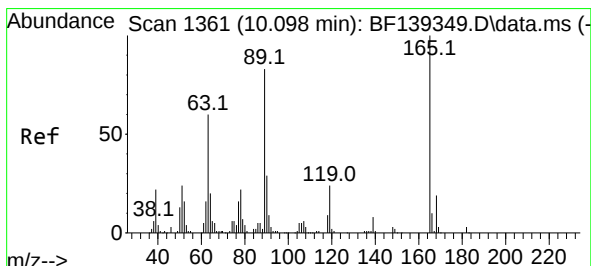
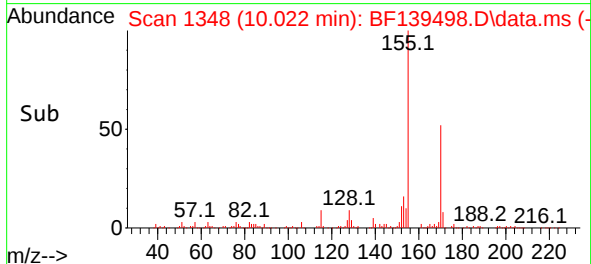
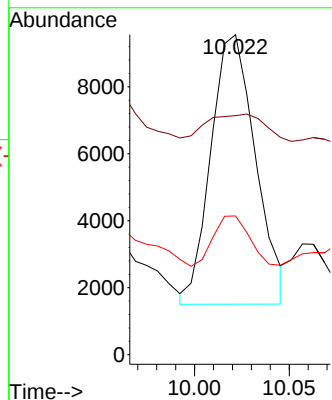
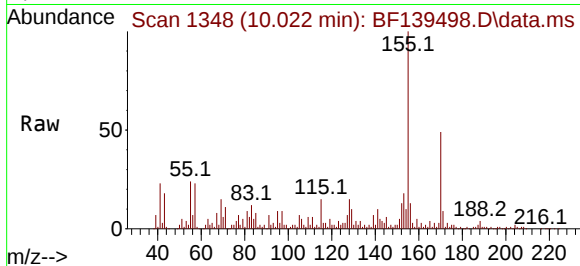




#56
4-Nitrophenol
Concen: 8.580 ng
RT: 10.022 min Scan# 1347
Delta R.T. 0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

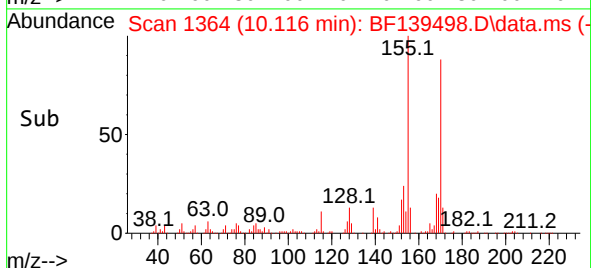
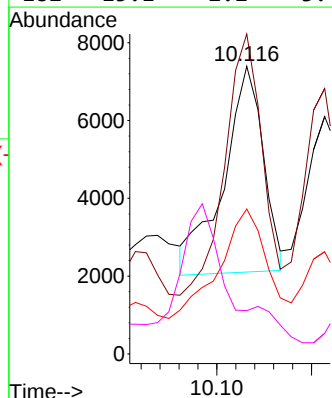
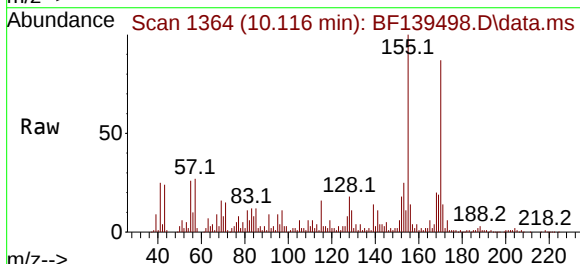
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

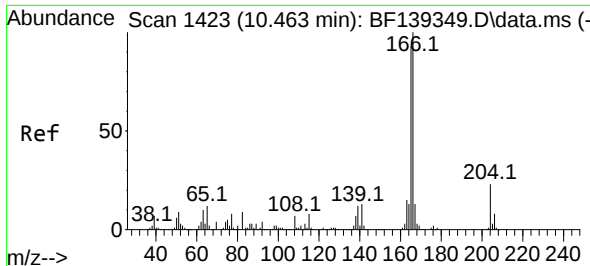
Tgt Ion:139 Resp: 13182
Ion Ratio Lower Upper
139 100
109 74.7 84.1 124.1#
65 43.4 120.0 160.0#



#57
2,4-Dinitrotoluene
Concen: 3.079 ng
RT: 10.116 min Scan# 1364
Delta R.T. 0.018 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:165 Resp: 7723
Ion Ratio Lower Upper
165 100
63 111.2 47.8 71.6#
89 50.4 66.7 100.1#
182 15.1 2.2 3.4#

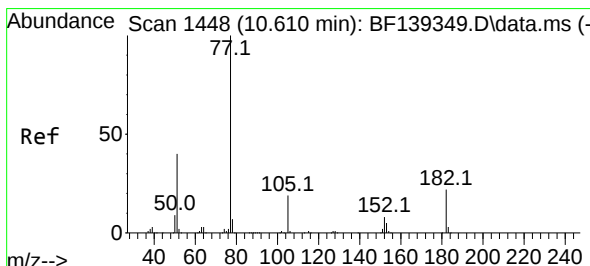
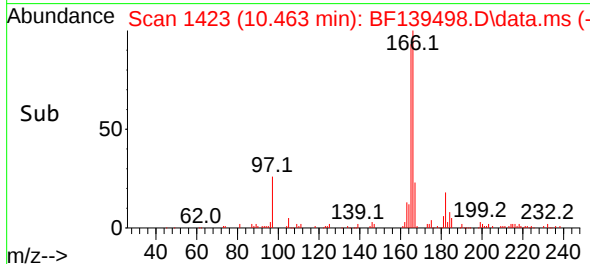
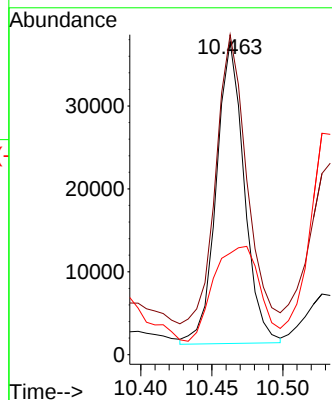
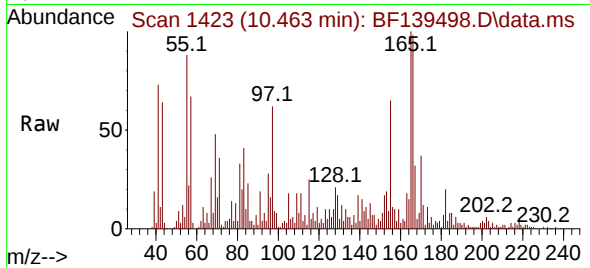




#58
Fluorene
Concen: 5.661 ng
RT: 10.463 min Scan# 1423
Delta R.T. -0.000 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

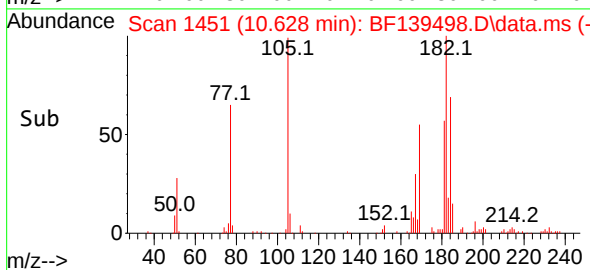
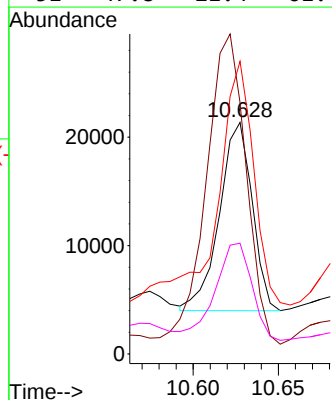
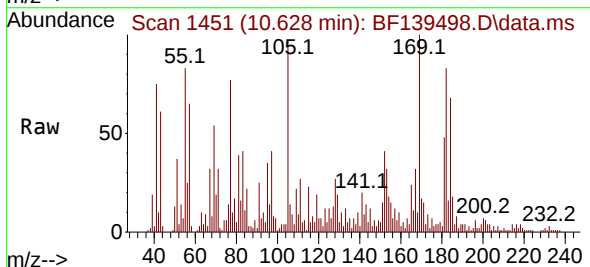
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

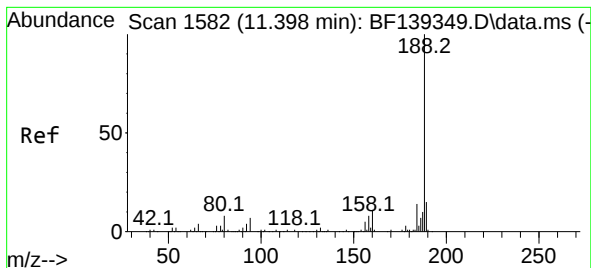
Tgt Ion:166 Resp: 49715
Ion Ratio Lower Upper
166 100
165 102.2 74.5 111.7
167 32.4 10.6 16.0#



#63
Azobenzene
Concen: 2.733 ng
RT: 10.628 min Scan# 1451
Delta R.T. 0.018 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion: 77 Resp: 23265
Ion Ratio Lower Upper
77 100
182 108.5 1.8 41.8#
105 126.4 0.0 38.6#
51 47.8 21.4 61.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

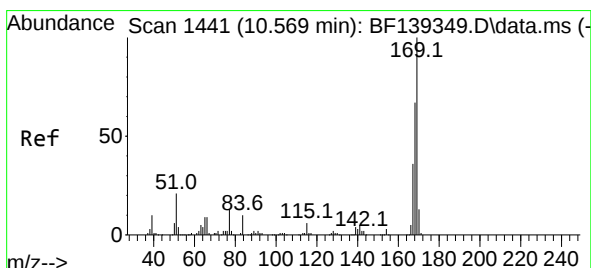
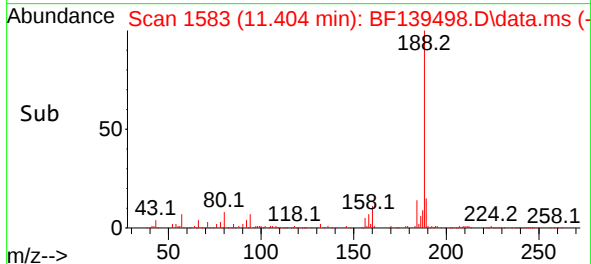
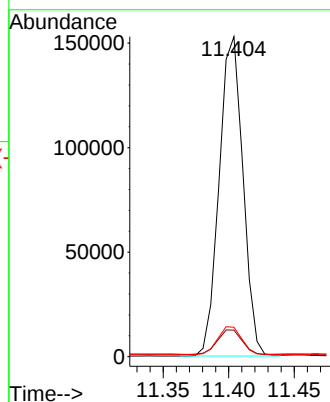
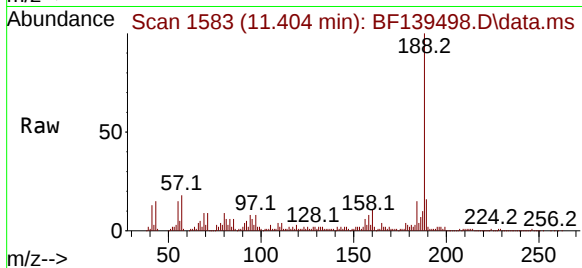
Tgt Ion:188 Resp: 192815

Ion Ratio Lower Upper

188 100

94 8.3 5.5 8.3#

80 9.2 6.6 9.8



#66

n-Nitrosodiphenylamine

Concen: 13.272 ng

RT: 10.575 min Scan# 1442

Delta R.T. 0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

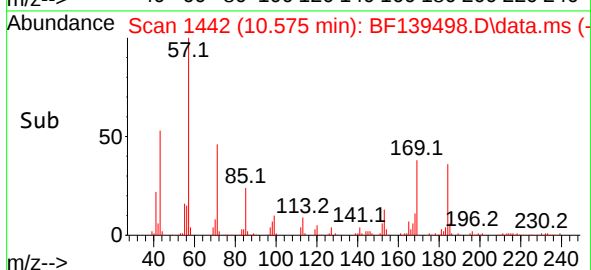
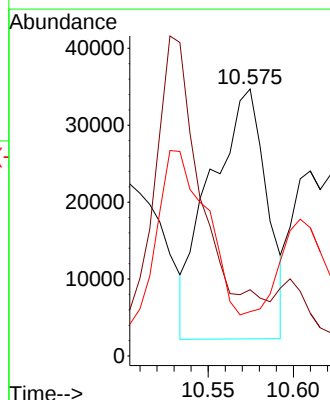
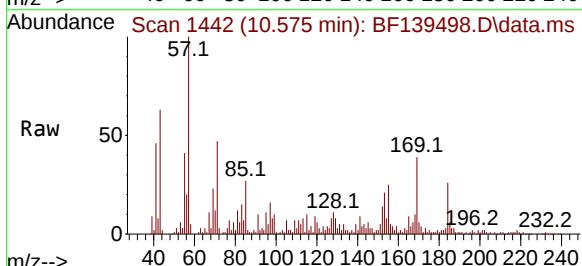
Tgt Ion:169 Resp: 74817

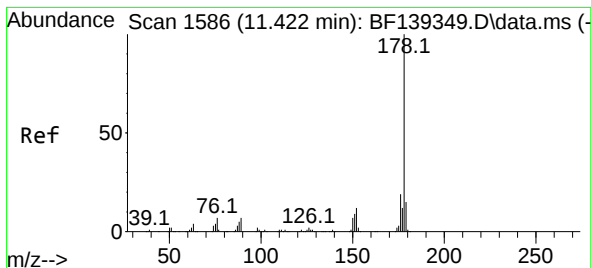
Ion Ratio Lower Upper

169 100

168 24.8 53.6 80.4#

167 16.6 28.7 43.1#





#71

Phenanthrene

Concen: 20.470 ng

RT: 11.427 min Scan# 1587

Delta R.T. 0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

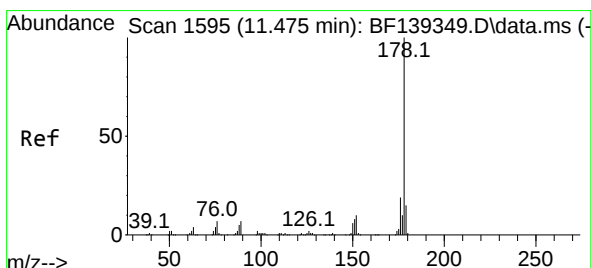
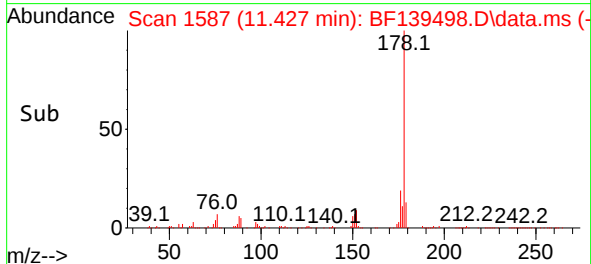
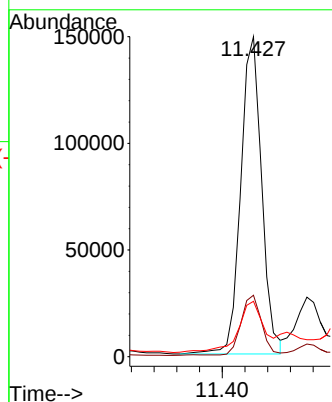
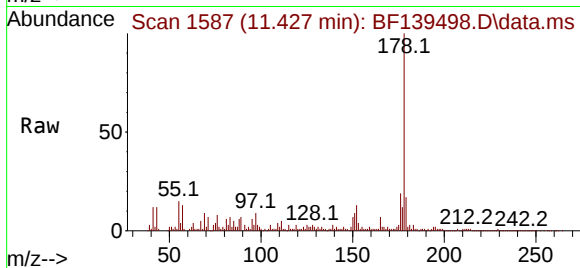
Tgt Ion:178 Resp: 190425

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 17.3 12.2 18.4



#72

Anthracene

Concen: 20.937 ng

RT: 11.427 min Scan# 1587

Delta R.T. -0.047 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

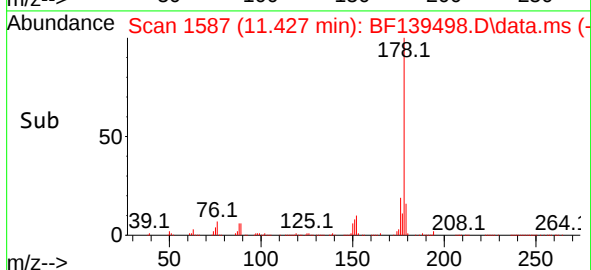
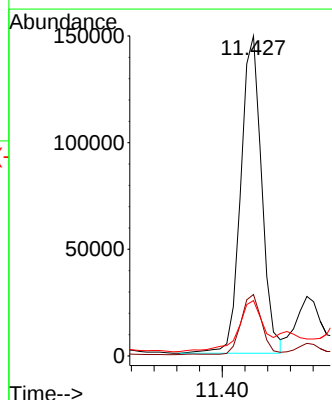
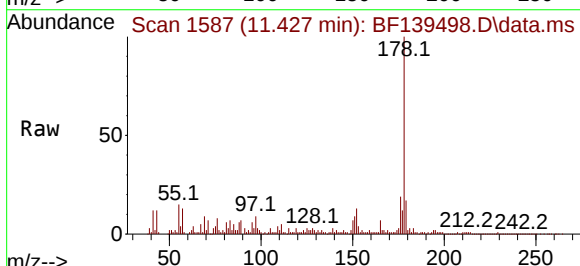
Tgt Ion:178 Resp: 190425

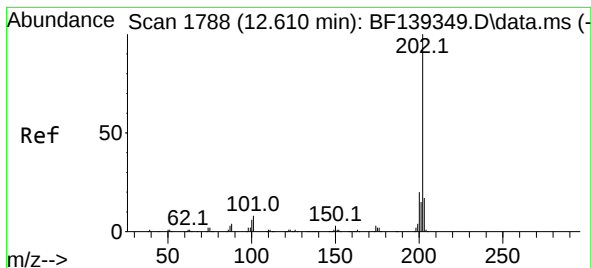
Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

179 17.3 12.0 18.0





#75

Fluoranthene

Concen: 15.602 ng

RT: 12.616 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

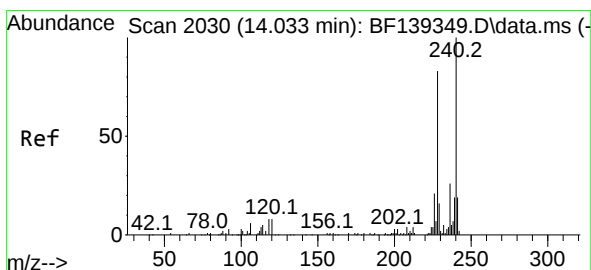
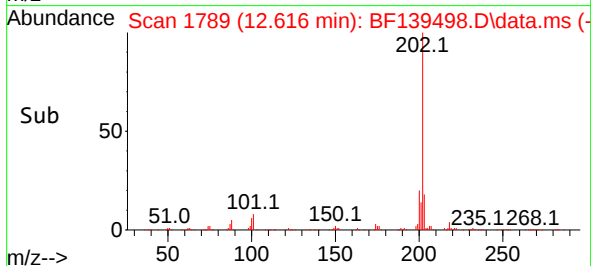
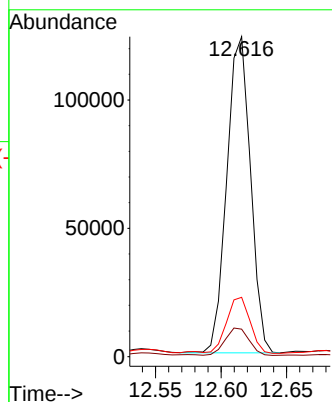
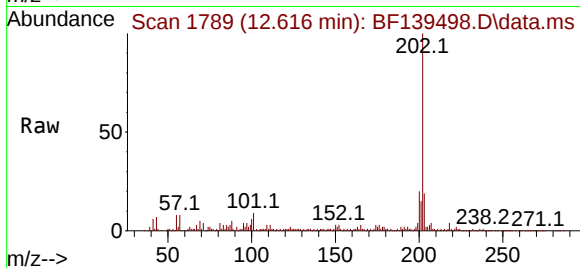
Tgt Ion:202 Resp: 154999

Ion Ratio Lower Upper

202 100

101 8.6 0.0 27.7

203 18.5 0.0 37.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

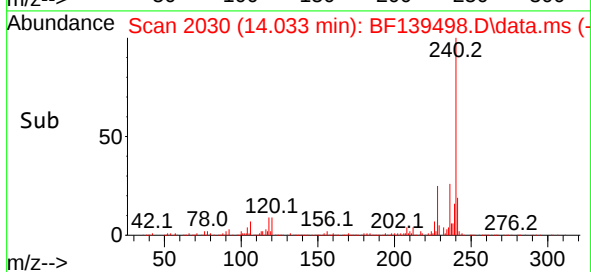
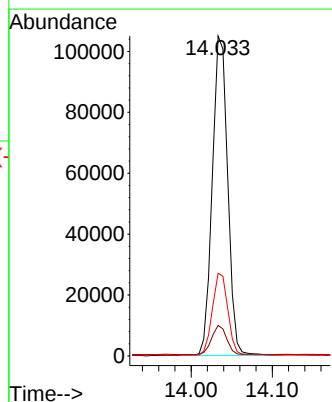
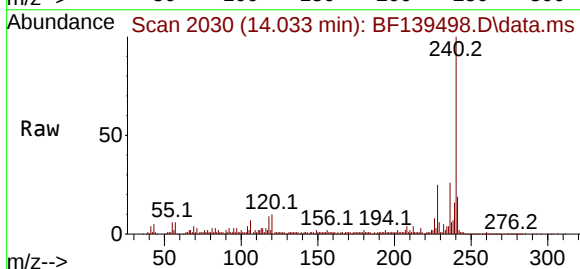
Tgt Ion:240 Resp: 138154

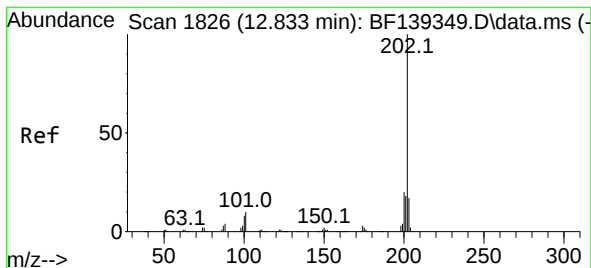
Ion Ratio Lower Upper

240 100

120 9.6 6.2 9.2#

236 25.9 20.9 31.3





#78

Pyrene

Concen: 13.760 ng

RT: 12.839 min Scan# 1826

Delta R.T. 0.006 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

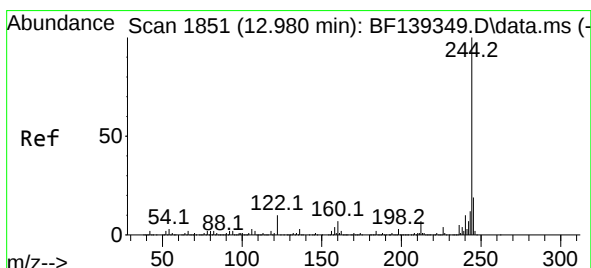
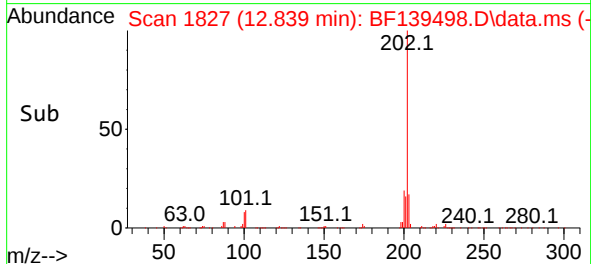
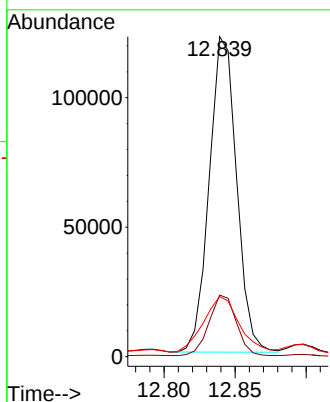
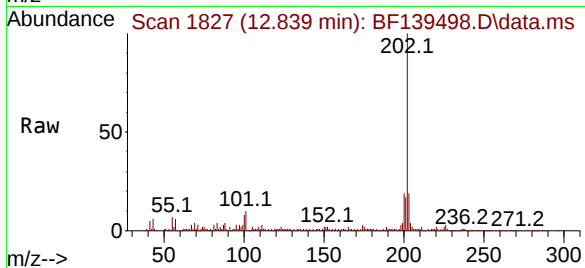
Tgt Ion:202 Resp: 163231

Ion Ratio Lower Upper

202 100

200 19.3 16.2 24.2

203 18.8 13.9 20.9



#79

Terphenyl-d14

Concen: 50.552 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

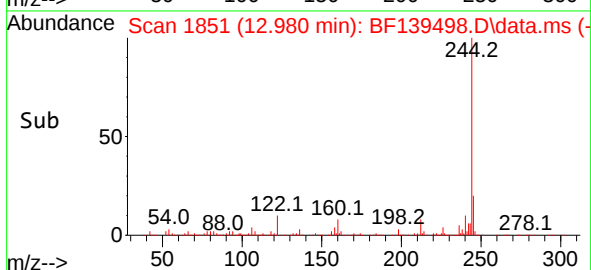
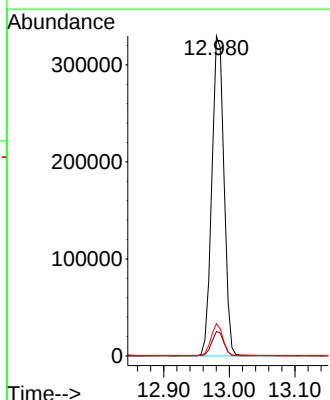
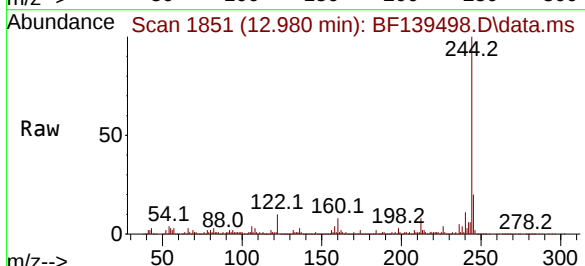
Tgt Ion:244 Resp: 425490

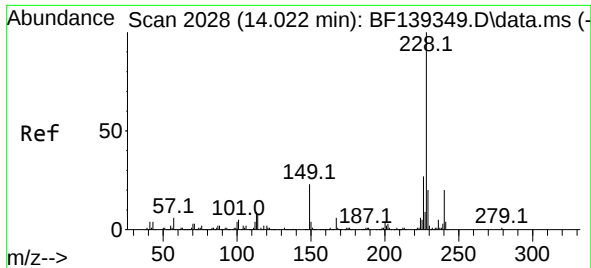
Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

122 10.1 7.6 11.4

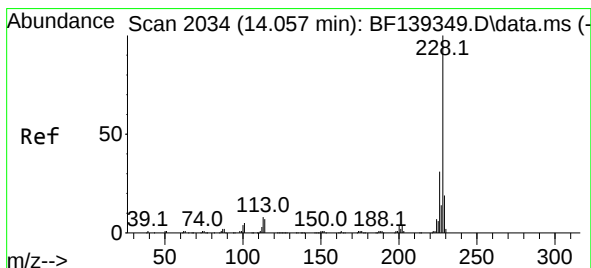
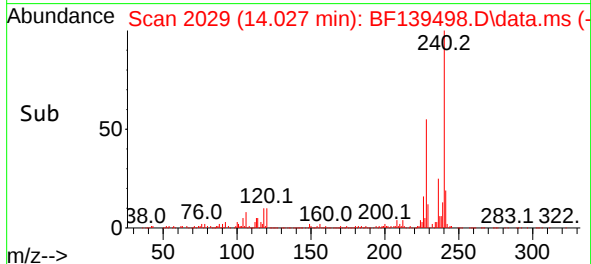
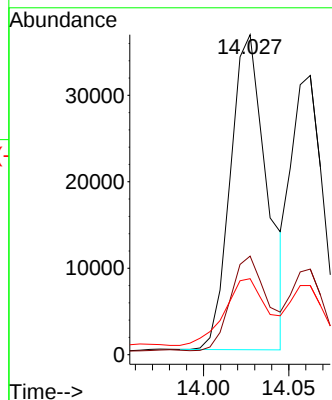
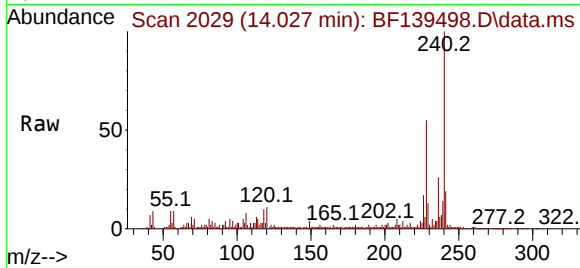




#81
Benzo(a)anthracene
Concen: 5.917 ng
RT: 14.027 min Scan# 2028
Delta R.T. 0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

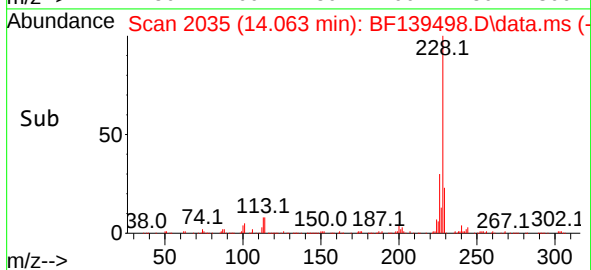
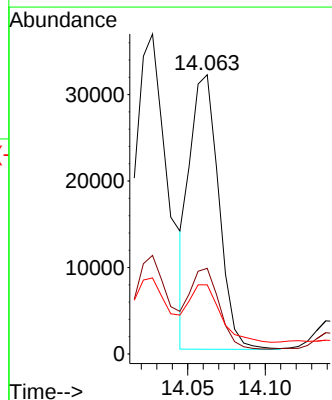
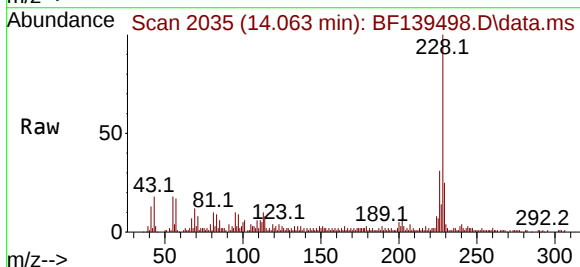
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

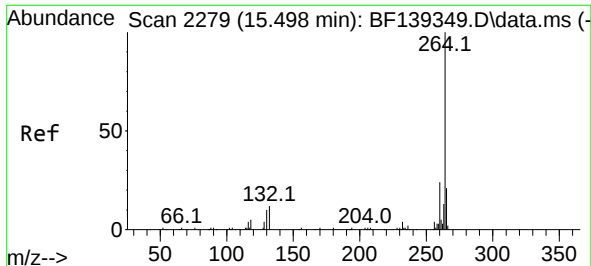
Tgt Ion:228 Resp: 54148
Ion Ratio Lower Upper
228 100
226 30.8 21.6 32.4
229 23.8 15.7 23.5#



#83
Chrysene
Concen: 4.917 ng
RT: 14.063 min Scan# 2035
Delta R.T. 0.006 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:228 Resp: 41394
Ion Ratio Lower Upper
228 100
226 30.7 24.1 36.1
229 24.8 15.4 23.0#

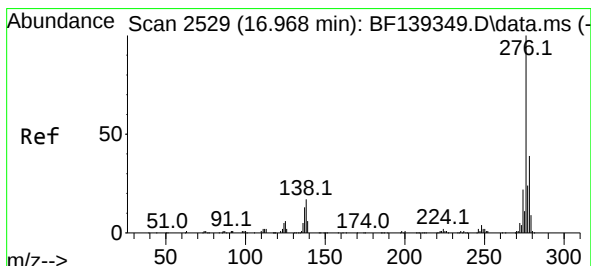
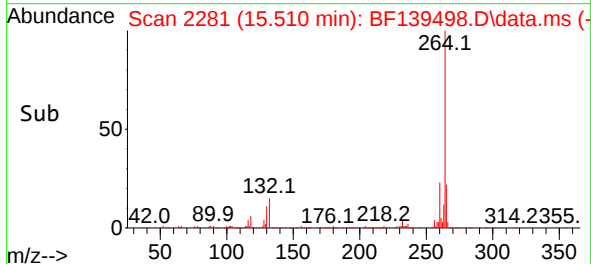
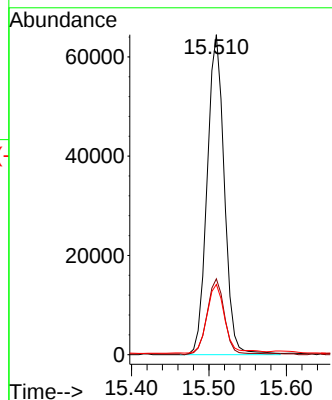
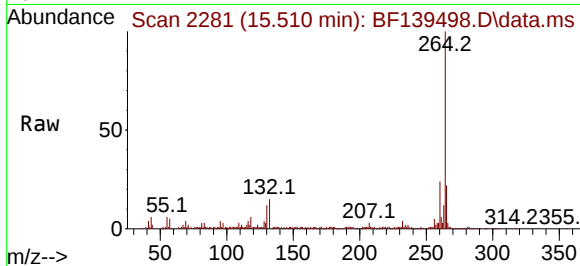




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

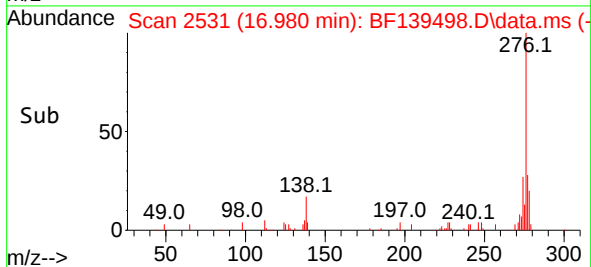
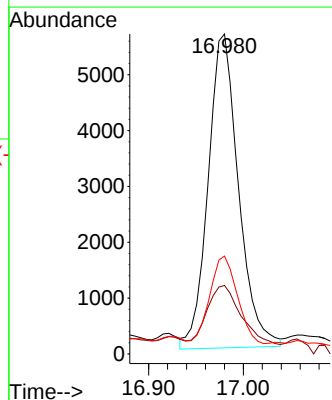
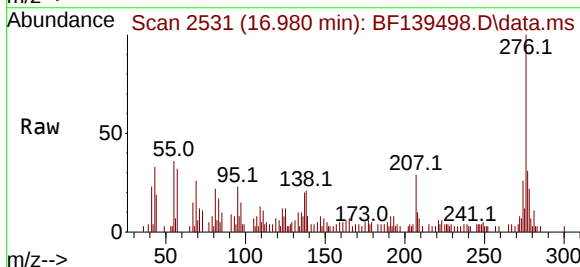
Instrument :
BNA_F
ClientSampleId :
WC-14-5-7.5A

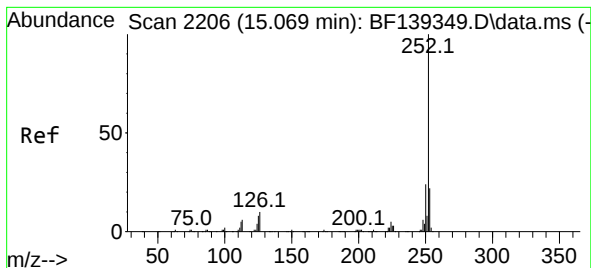
Tgt Ion:264 Resp: 99507
Ion Ratio Lower Upper
264 100
260 23.7 19.5 29.3
265 22.0 16.6 25.0



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.120 ng
RT: 16.980 min Scan# 2531
Delta R.T. 0.012 min
Lab File: BF139498.D
Acq: 20 Sep 2024 13:19

Tgt Ion:276 Resp: 12546
Ion Ratio Lower Upper
276 100
138 21.8 15.4 23.2
277 26.2 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 7.990 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.012 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

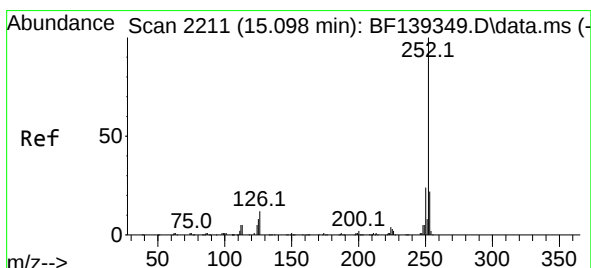
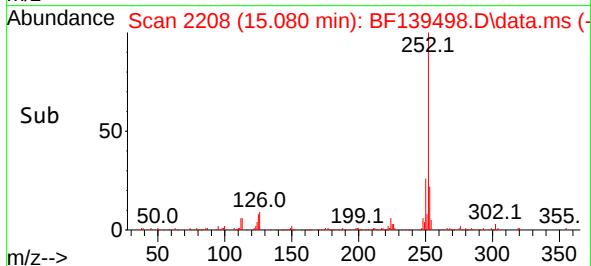
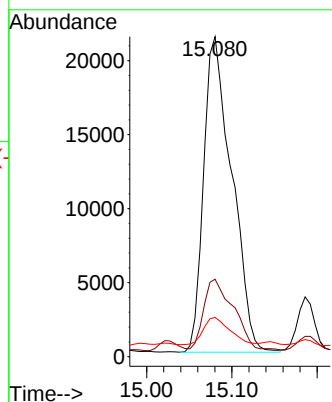
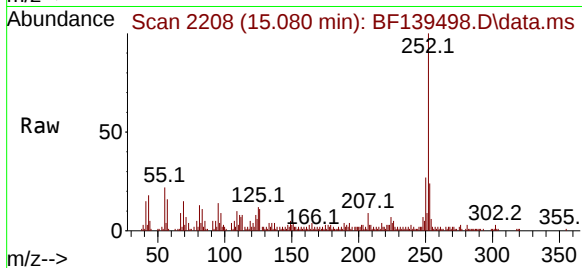
Tgt Ion:252 Resp: 49034

Ion Ratio Lower Upper

252 100

253 24.2 17.6 26.4

125 12.3 6.2 9.2#



#89

Benzo(k)fluoranthene

Concen: 8.666 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.018 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

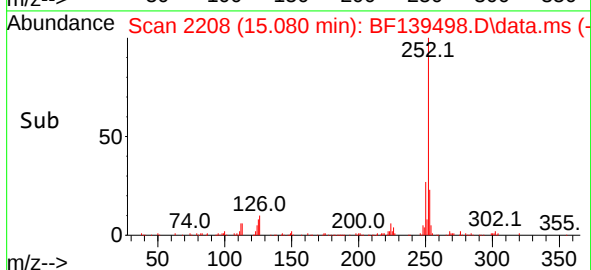
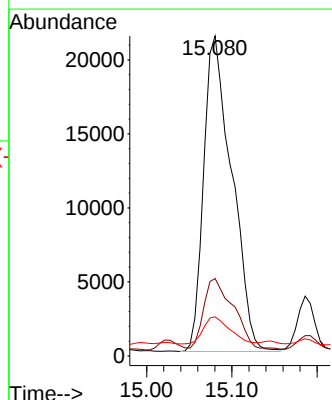
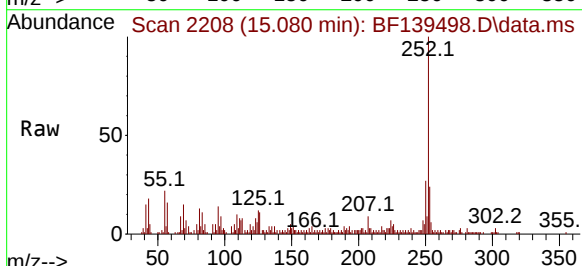
Tgt Ion:252 Resp: 49034

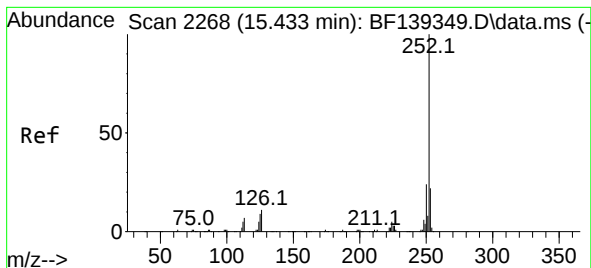
Ion Ratio Lower Upper

252 100

253 24.2 17.3 25.9

125 12.3 5.9 8.9#





#90

Benzo(a)pyrene

Concen: 4.839 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Instrument :

BNA_F

ClientSampleId :

WC-14-5-7.5A

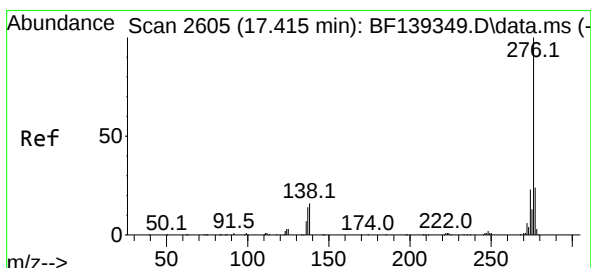
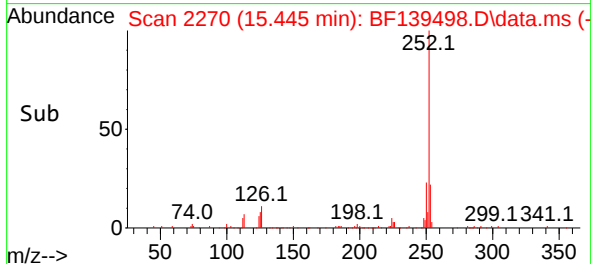
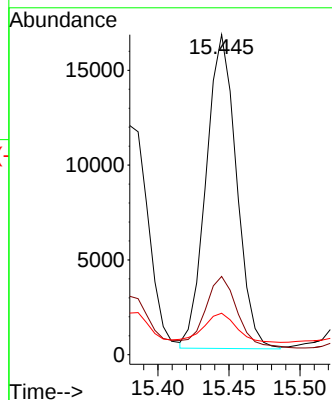
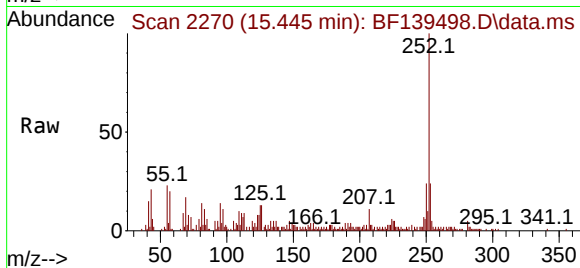
Tgt Ion:252 Resp: 24628

Ion Ratio Lower Upper

252 100

253 24.5 17.3 25.9

125 12.9 6.8 10.2#



#92

Benzo(g,h,i)perylene

Concen: 3.000 ng

RT: 17.427 min Scan# 2607

Delta R.T. 0.012 min

Lab File: BF139498.D

Acq: 20 Sep 2024 13:19

Tgt Ion:276 Resp: 14522

Ion Ratio Lower Upper

276 100

277 24.4 18.9 28.3

138 20.4 13.0 19.6#

