

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122223\
 Data File : BF136703.D
 Acq On : 23 Dec 2023 00:35
 Operator : CG\JU
 Sample : 05862-10 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-SOLIDS-20231213-01

Quant Time: Dec 23 01:58:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

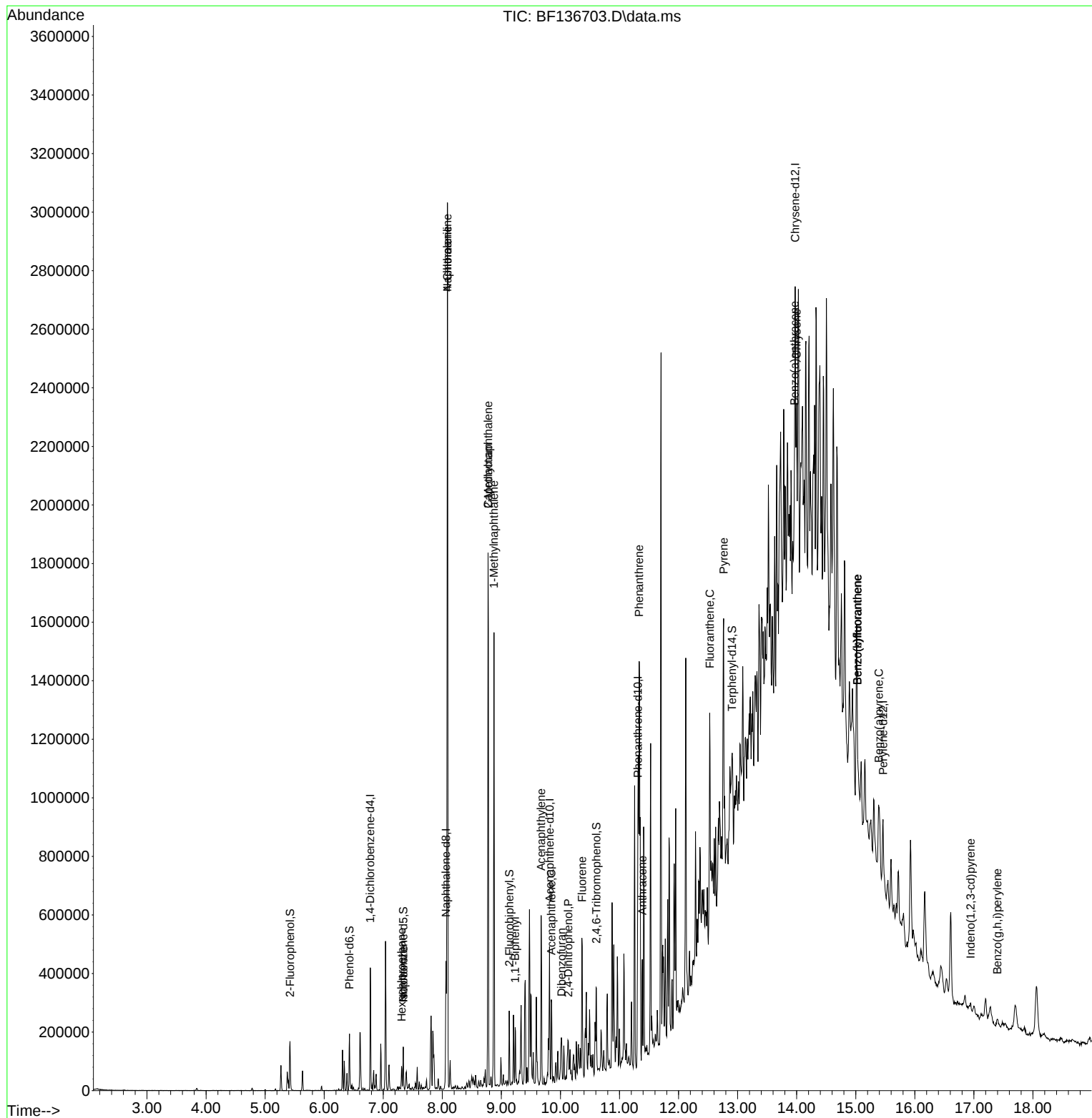
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	58771	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	194832	20.000	ng	0.00
39) Acenaphthene-d10	9.816	164	82045	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	143191	20.000	ng	0.00
76) Chrysene-d12	13.974	240	107040	20.000	ng	# 0.00
86) Perylene-d12	15.462	264	92980	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	47535	12.620	ng	0.00
7) Phenol-d6	6.428	99	61489	12.598	ng	-0.01
23) Nitrobenzene-d5	7.339	82	35653	9.364	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	11488	11.889	ng	-0.01
45) 2-Fluorobiphenyl	9.133	172	66418	10.888	ng	-0.02
79) Terphenyl-d14	12.904	244	67421	8.802	ng	-0.01
Target Compounds						
						Qvalue
18) Hexachloroethane	7.310	117	7712	4.622	ng	# 1
25) Isophorone	7.339	82	35548	5.131	ng	# 65
31) Naphthalene	8.086	128	1350970	126.217	ng	99
33) 4-Chloroaniline	8.086	127	183092	46.330	ng	# 34
35) Caprolactam	8.775	113	10418	11.041	ng	# 1
37) 2-Methylnaphthalene	8.775	142	484269	70.301	ng	99
38) 1-Methylnaphthalene	8.875	142	348571	51.578	ng	100
46) 1,1'-Biphenyl	9.233	154	62567	9.088	ng	94
49) Acenaphthylene	9.675	152	166070	20.759	ng	# 97
52) Acenaphthene	9.845	154	55482	11.188	ng	98
54) 2,4-Dinitrophenol	10.133	184	60	3.811	ng	# 1
55) Dibenzofuran	10.022	168	16050	2.135	ng	# 78
58) Fluorene	10.369	166	136871	22.947	ng	97
71) Phenanthrene	11.333	178	510988	69.548	ng	99
72) Anthracene	11.386	178	119857	16.108	ng	98
75) Fluoranthene	12.527	202	193347	24.602	ng	88
78) Pyrene	12.763	202	314603	29.940	ng	97
81) Benzo(a)anthracene	13.962	228	119835	16.123	ng	# 80
83) Chrysene	13.998	228	103782	14.278	ng	# 94
87) Indeno(1,2,3-cd)pyrene	16.945	276	14430	2.149	ng	96
88) Benzo(b)fluoranthene	15.027	252	60525	9.746	ng	# 73
89) Benzo(k)fluoranthene	15.027	252	60525	10.314	ng	# 72
90) Benzo(a)pyrene	15.392	252	50606	9.654	ng	# 86
92) Benzo(g,h,i)perylene	17.398	276	15591	2.764	ng	# 85

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

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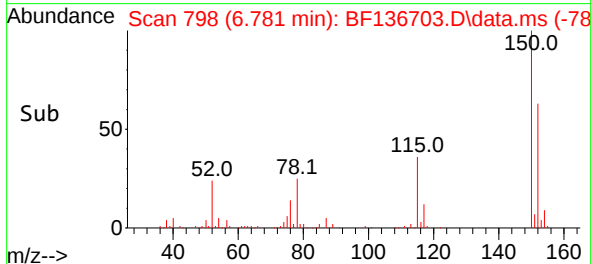
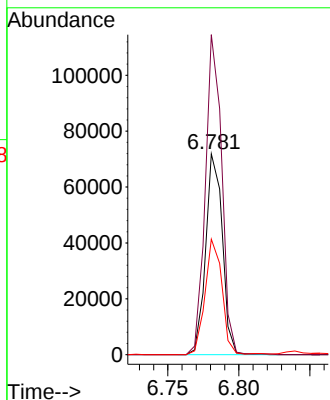
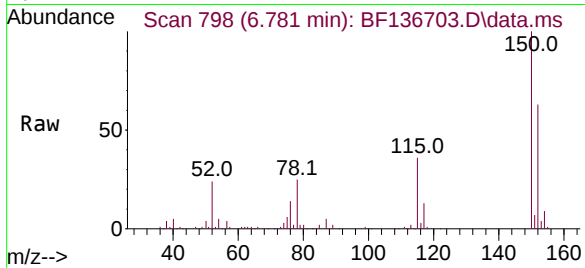




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

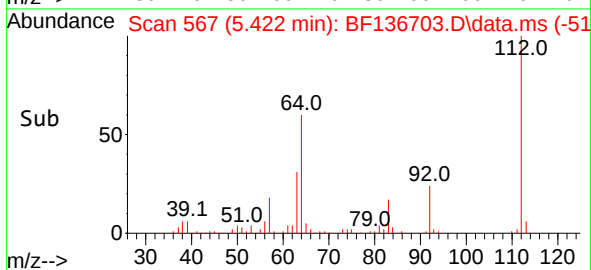
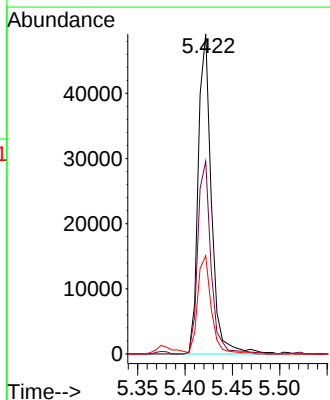
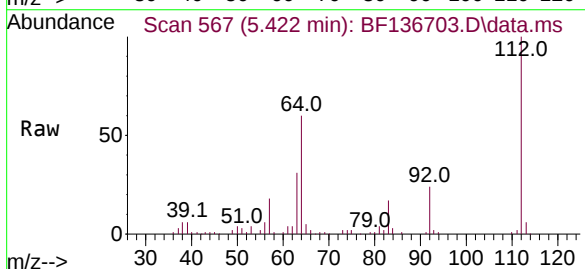
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

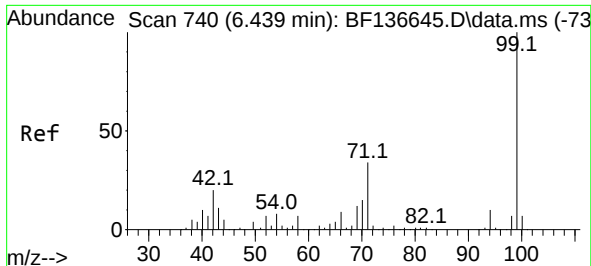
Tgt Ion:152 Resp: 58771
Ion Ratio Lower Upper
152 100
150 159.4 127.0 190.6
115 57.5 49.0 73.4



#5
2-Fluorophenol
Concen: 12.620 ng
RT: 5.422 min Scan# 567
Delta R.T. -0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:112 Resp: 47535
Ion Ratio Lower Upper
112 100
64 60.2 51.1 76.7
63 30.7 26.1 39.1

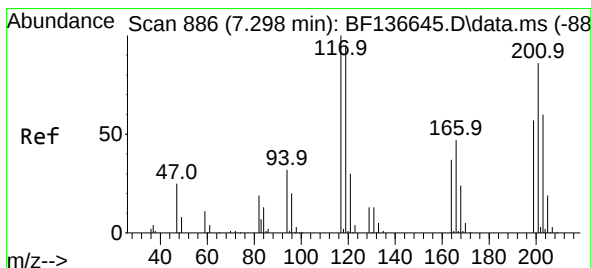
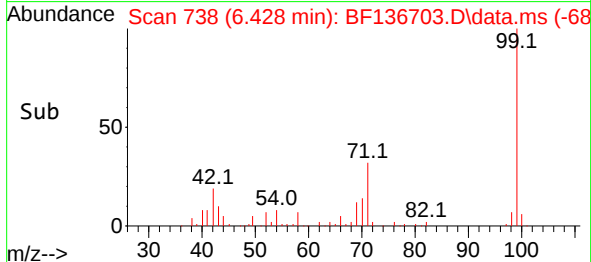
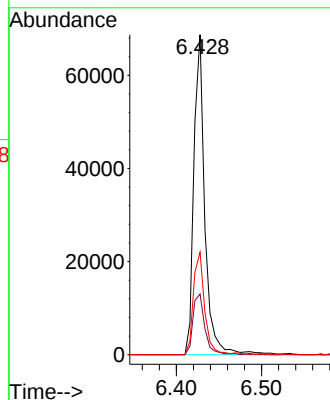
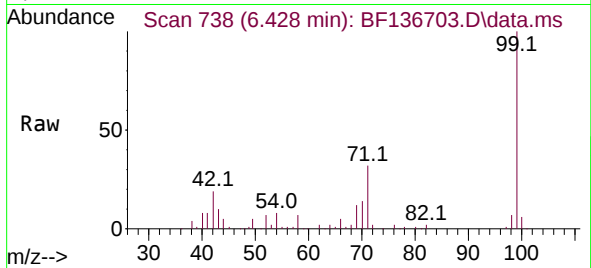




#7
Phenol-d6
Concen: 12.598 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

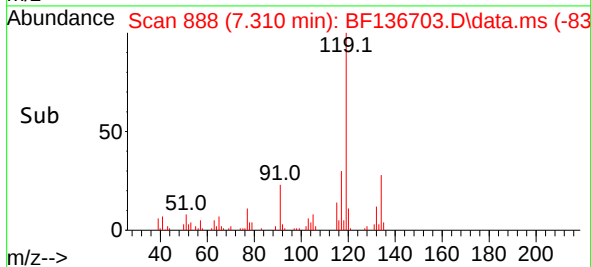
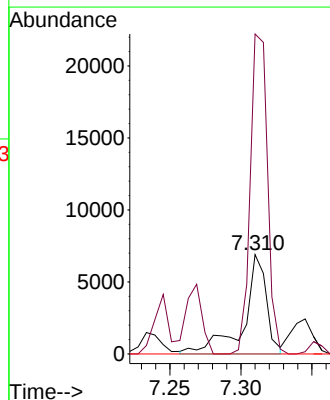
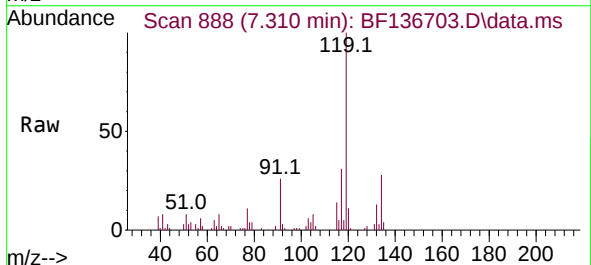
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

Tgt Ion: 99 Resp: 61489
Ion Ratio Lower Upper
99 100
42 18.9 16.1 24.1
71 32.1 27.4 41.2



#18
Hexachloroethane
Concen: 4.622 ng
RT: 7.310 min Scan# 888
Delta R.T. 0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion: 117 Resp: 7712
Ion Ratio Lower Upper
117 100
119 321.8 75.8 113.6#
201 0.0 69.1 103.7#

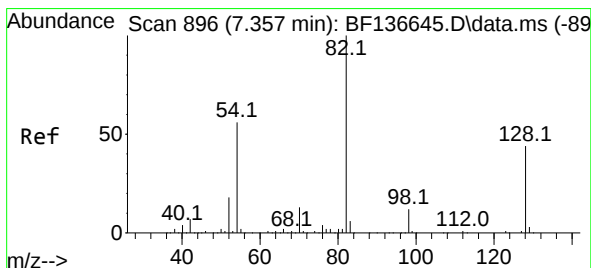
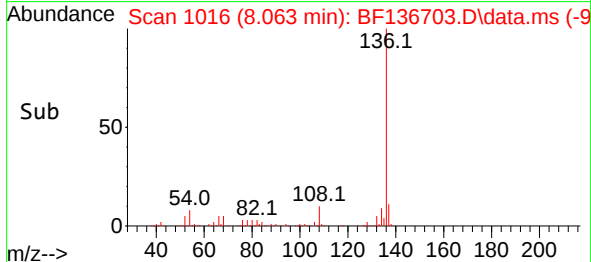
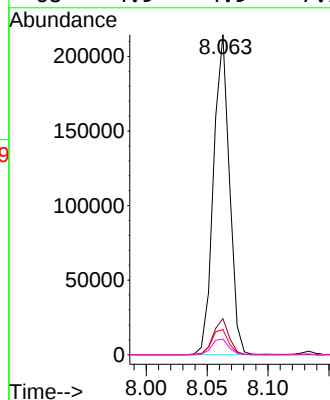
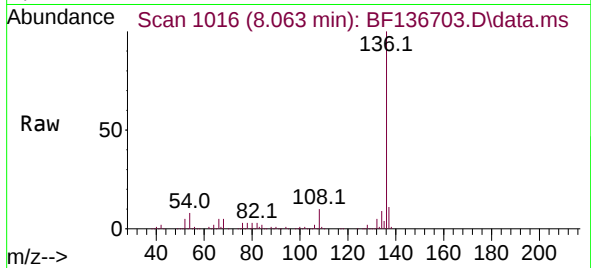




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

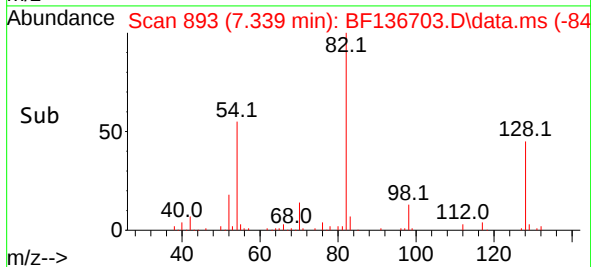
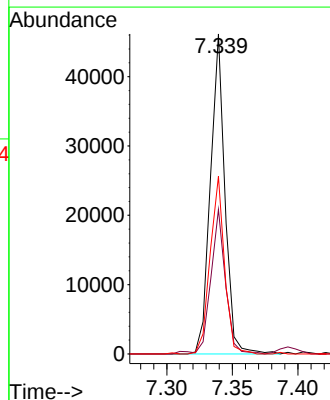
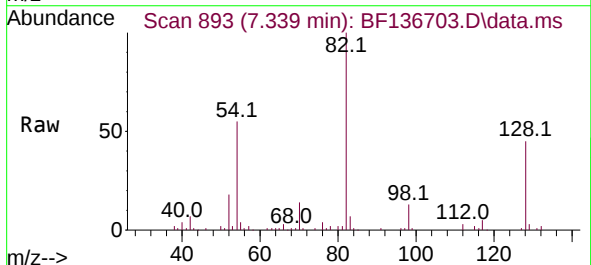
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

Tgt Ion:136 Resp: 194832
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 7.9 7.2 10.8
68 4.9 4.9 7.3



#23
Nitrobenzene-d5
Concen: 9.364 ng
RT: 7.339 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion: 82 Resp: 35653
Ion Ratio Lower Upper
82 100
128 45.1 35.3 52.9
54 55.5 44.5 66.7

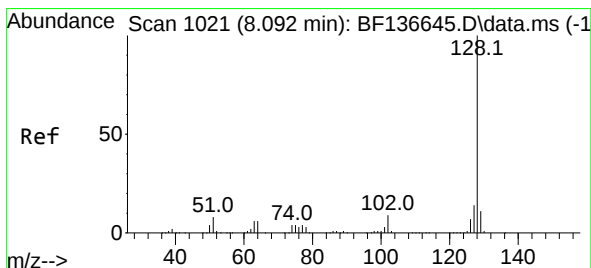
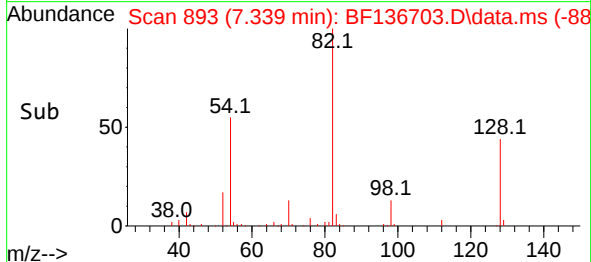
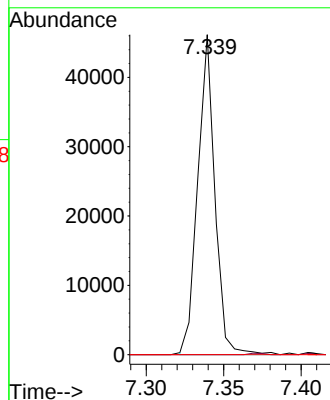
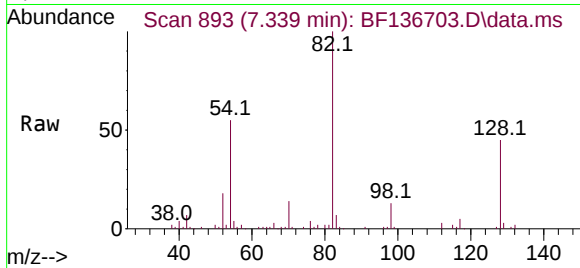




#25
Isophorone
Concen: 5.131 ng
RT: 7.339 min Scan# 893
Delta R.T. -0.276 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

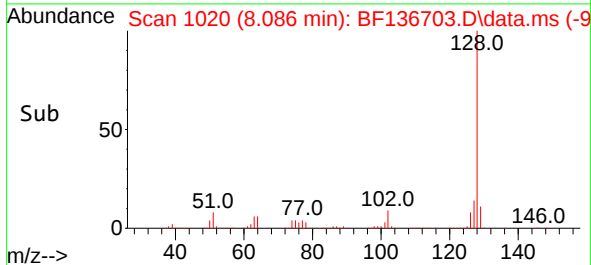
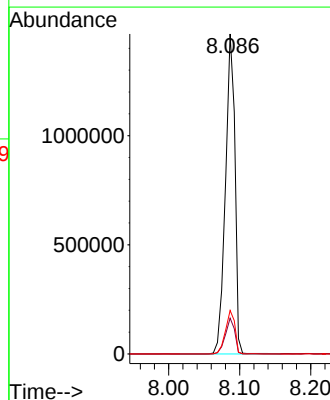
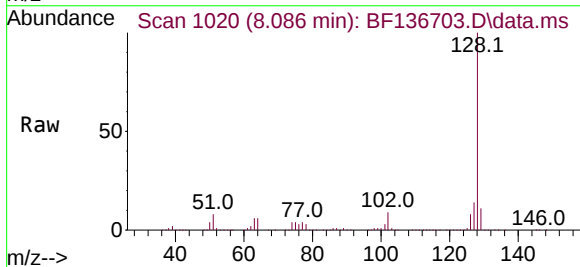
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

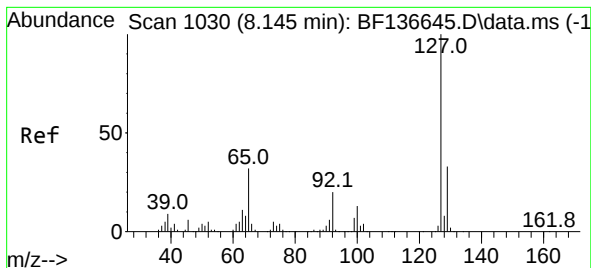
Tgt Ion: 82 Resp: 35548
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 14.5 21.7#



#31
Naphthalene
Concen: 126.217 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:128 Resp: 1350970
Ion Ratio Lower Upper
128 100
129 11.2 8.7 13.1
127 13.6 10.8 16.2





#33

4-Chloroaniline

Concen: 46.330 ng

RT: 8.086 min Scan# 1137

Delta R.T. -0.059 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

Tgt Ion:127 Resp: 183092

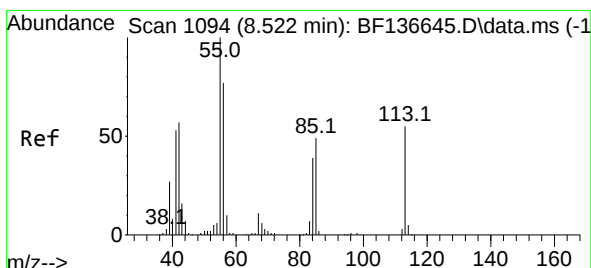
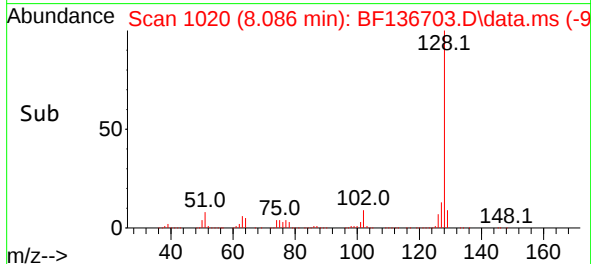
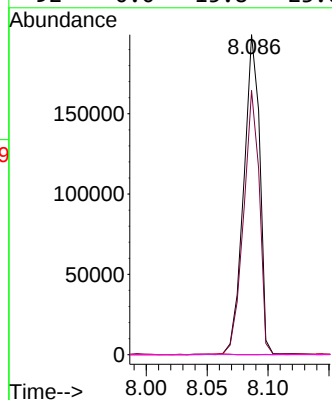
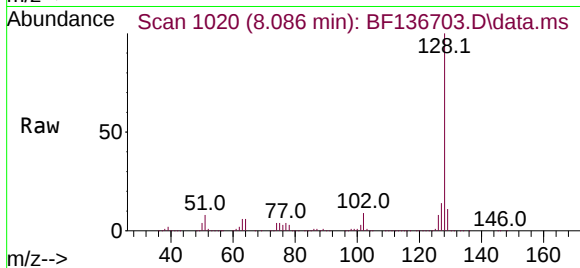
Ion Ratio Lower Upper

127 100

129 82.6 26.3 39.5#

65 0.0 25.8 38.8#

92 0.0 15.8 23.6#



#35

Caprolactam

Concen: 11.041 ng

RT: 8.775 min Scan# 1137

Delta R.T. 0.253 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

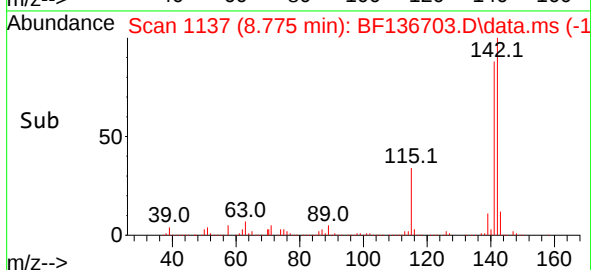
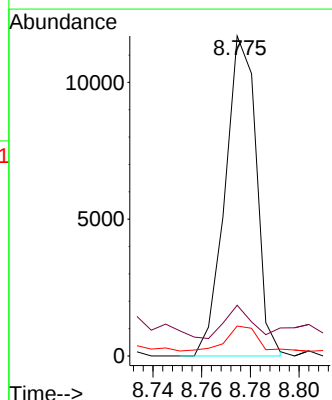
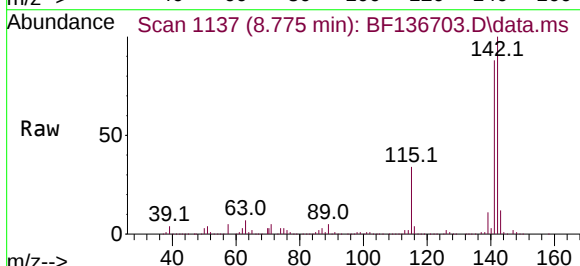
Tgt Ion:113 Resp: 10418

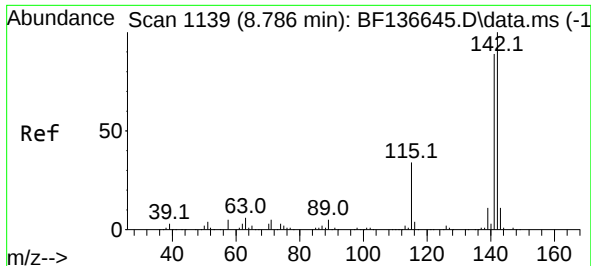
Ion Ratio Lower Upper

113 100

55 15.8 163.1 203.1#

56 9.3 121.7 161.7#





#37

2-Methylnaphthalene

Concen: 70.301 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

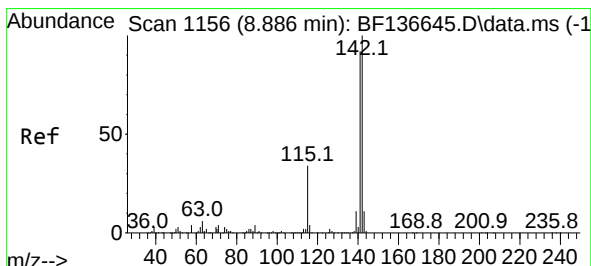
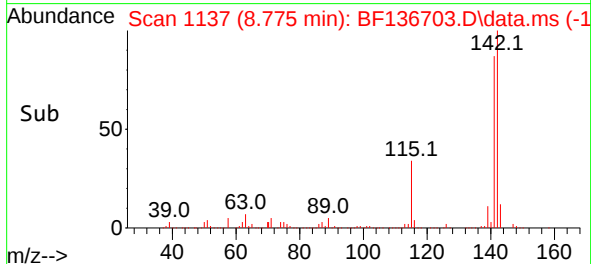
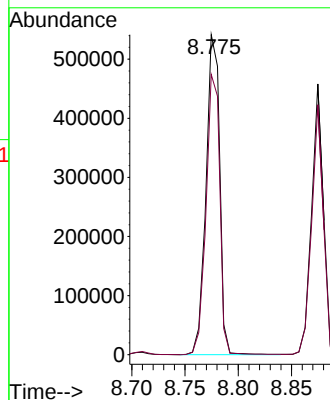
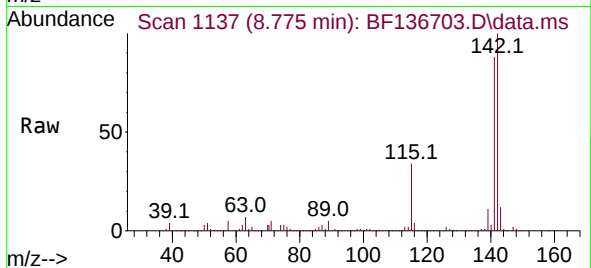
WC-SOLIDS-20231213-01

Tgt Ion:142 Resp: 484269

Ion Ratio Lower Upper

142 100

141 87.5 71.1 106.7



#38

1-Methylnaphthalene

Concen: 51.578 ng

RT: 8.875 min Scan# 1154

Delta R.T. -0.012 min

Lab File: BF136703.D

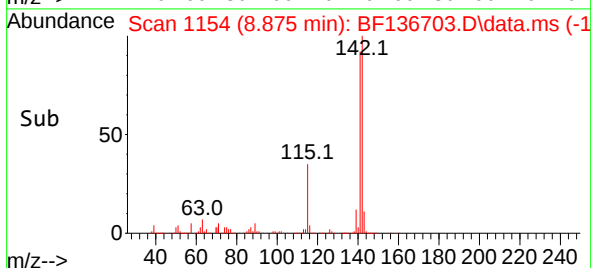
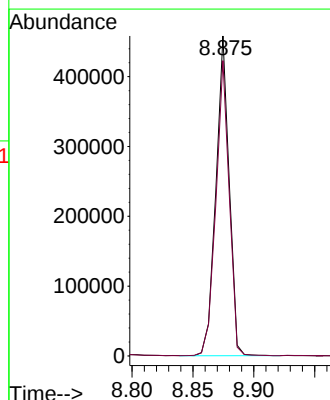
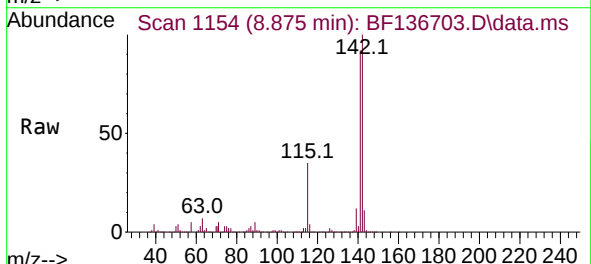
Acq: 23 Dec 2023 00:35

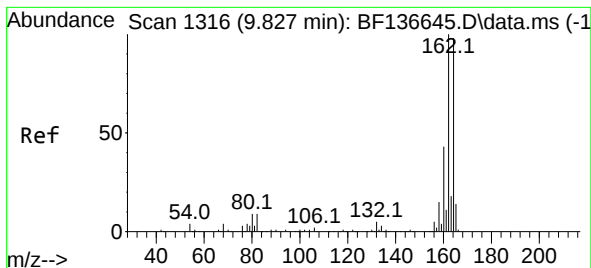
Tgt Ion:142 Resp: 348571

Ion Ratio Lower Upper

142 100

141 92.3 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

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ClientSampleId :

WC-SOLIDS-20231213-01

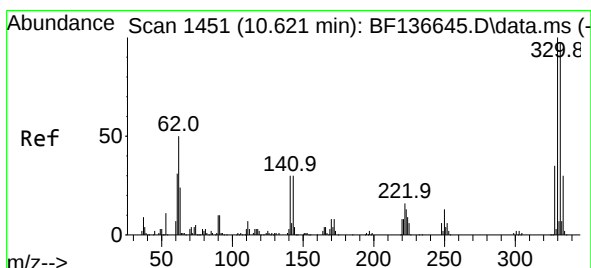
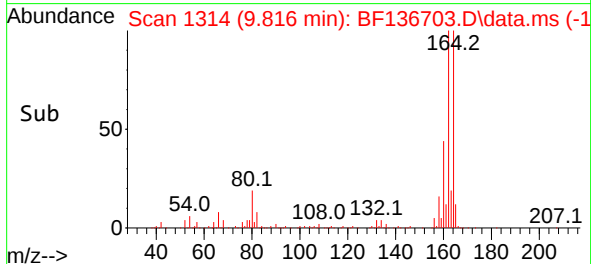
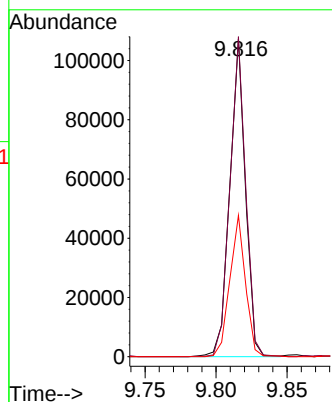
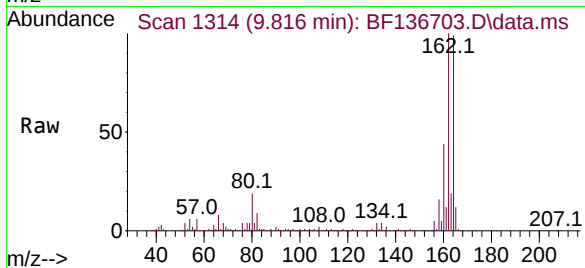
Tgt Ion:164 Resp: 82045

Ion Ratio Lower Upper

164 100

162 100.7 81.6 122.4

160 44.5 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 11.889 ng

RT: 10.610 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

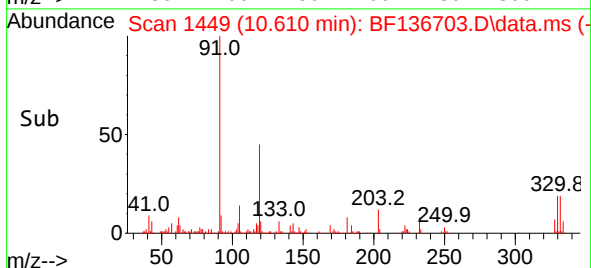
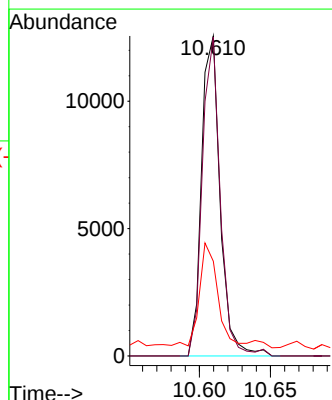
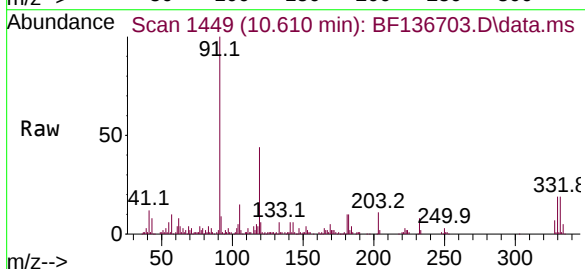
Tgt Ion:330 Resp: 11488

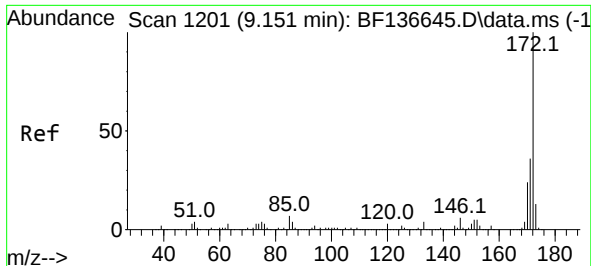
Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.0

141 30.4 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 10.888 ng

RT: 9.133 min Scan# 1198

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

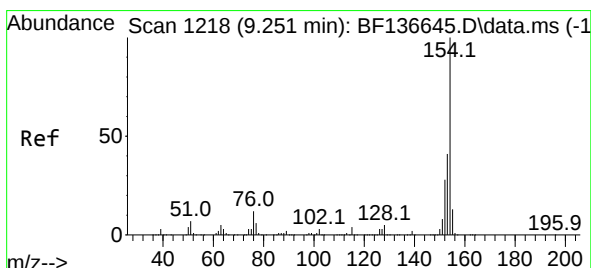
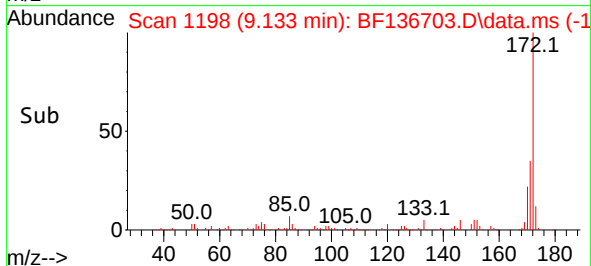
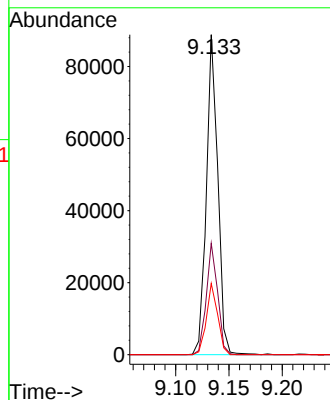
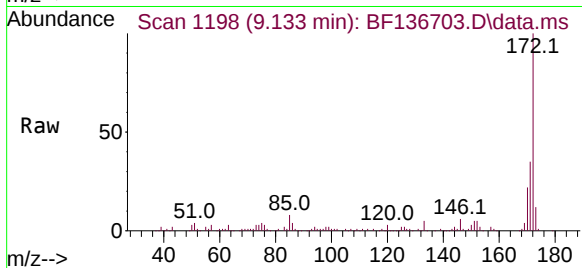
Tgt Ion:172 Resp: 66418

Ion Ratio Lower Upper

172 100

171 34.8 29.0 43.6

170 22.3 19.0 28.4



#46

1,1'-Biphenyl

Concen: 9.088 ng

RT: 9.233 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

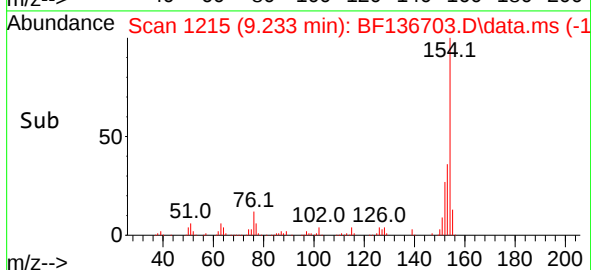
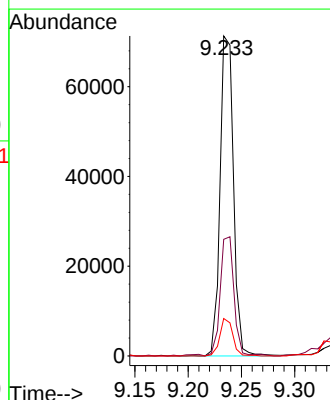
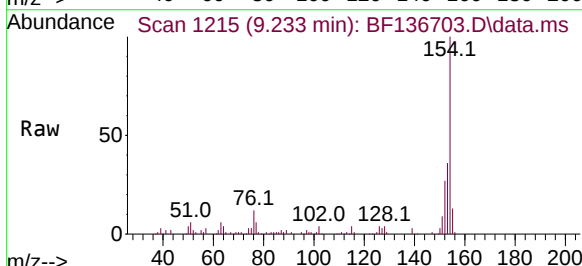
Tgt Ion:154 Resp: 62567

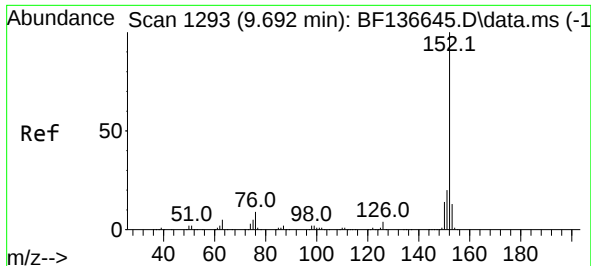
Ion Ratio Lower Upper

154 100

153 36.5 21.1 61.1

76 11.7 0.0 31.7





#49

Acenaphthylene

Concen: 20.759 ng

RT: 9.675 min Scan# 1319

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

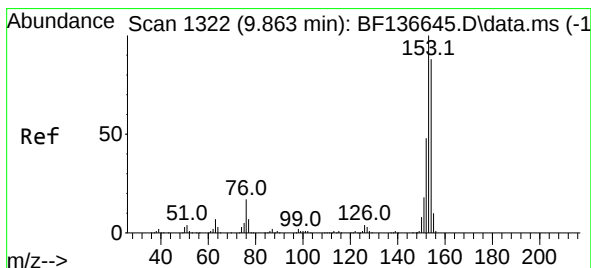
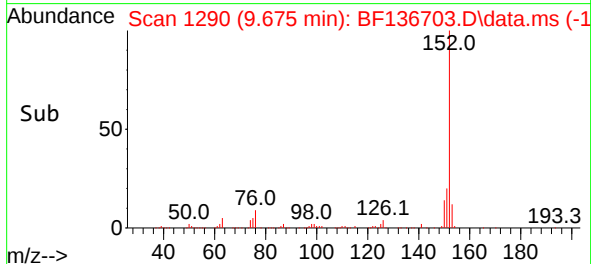
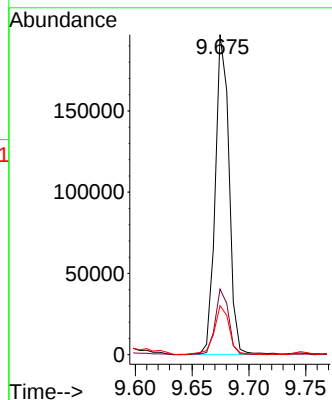
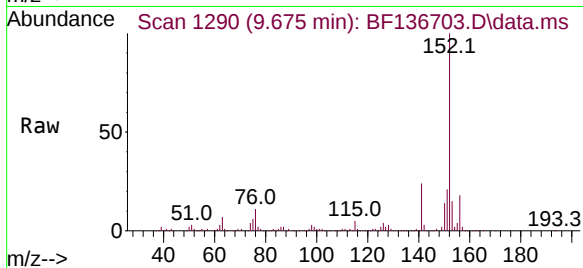
Tgt Ion:152 Resp: 166070

Ion Ratio Lower Upper

152 100

151 20.5 16.2 24.4

153 15.3 10.2 15.2#



#52

Acenaphthene

Concen: 11.188 ng

RT: 9.845 min Scan# 1319

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

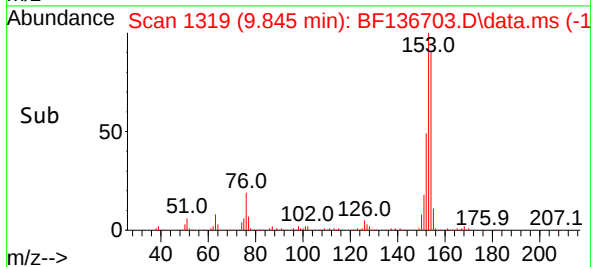
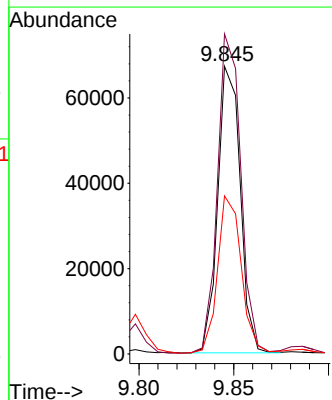
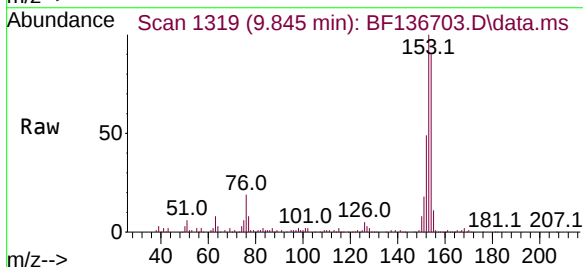
Tgt Ion:154 Resp: 55482

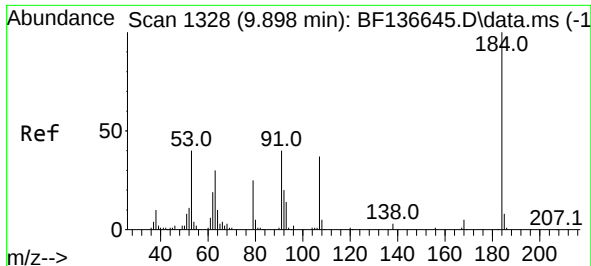
Ion Ratio Lower Upper

154 100

153 111.2 90.7 136.1

152 54.9 43.7 65.5

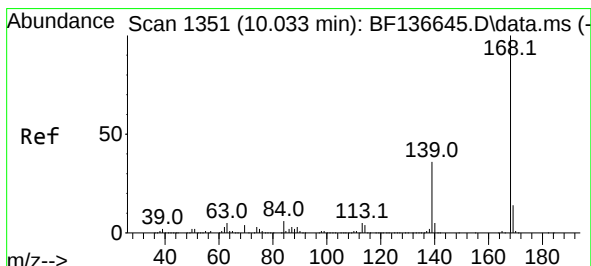
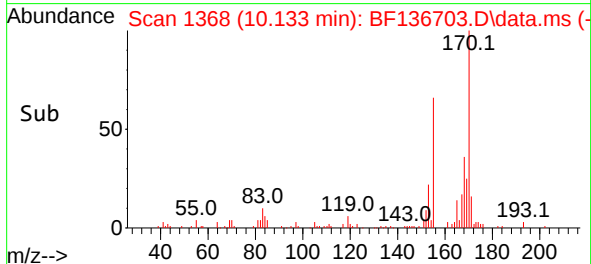
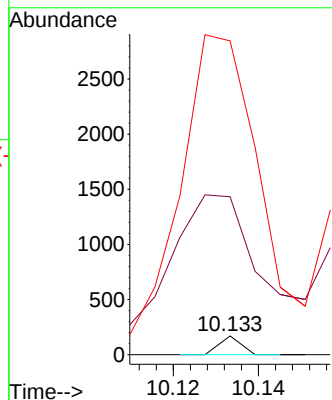
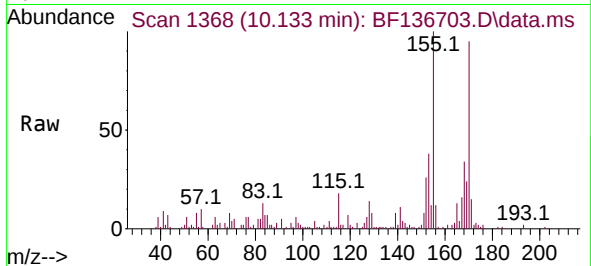




#54
2,4-Dinitrophenol
Concen: 3.811 ng
RT: 10.133 min Scan# 11
Delta R.T. 0.235 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

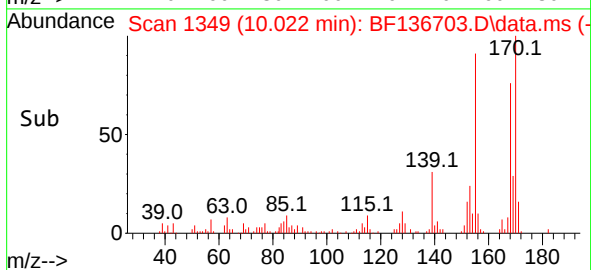
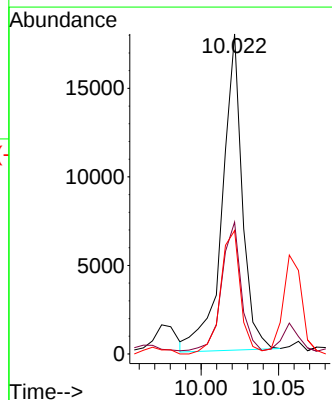
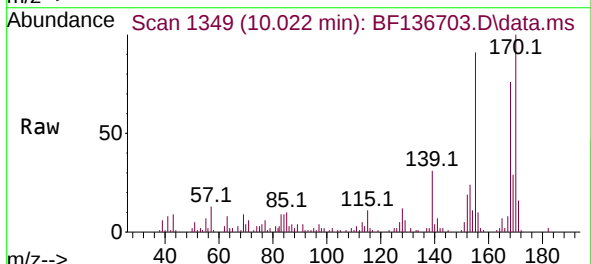
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

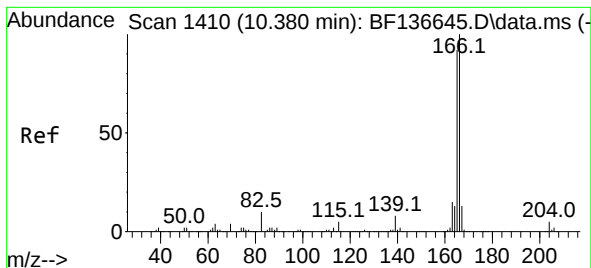
Tgt Ion:184 Resp: 60
Ion Ratio Lower Upper
184 100
63 842.4 40.9 61.3#
154 1673.5 42.7 64.1#



#55
Dibenzofuran
Concen: 2.135 ng
RT: 10.022 min Scan# 1349
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:168 Resp: 16050
Ion Ratio Lower Upper
168 100
139 41.2 29.3 43.9
169 38.5 11.0 16.4#





#58

Fluorene

Concen: 22.947 ng

RT: 10.369 min Scan# 1410

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

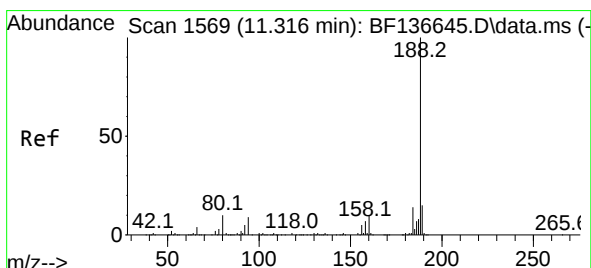
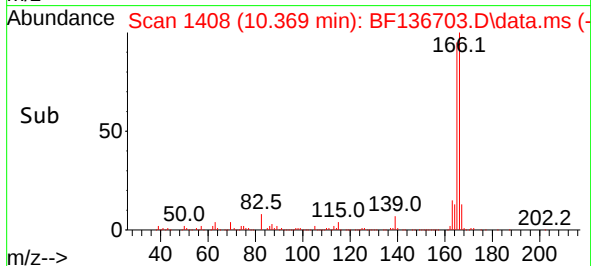
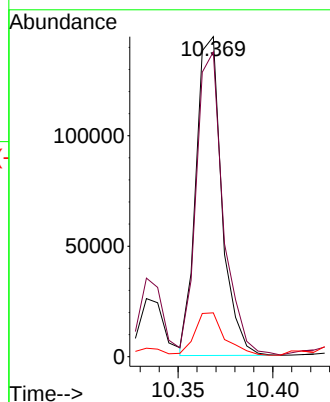
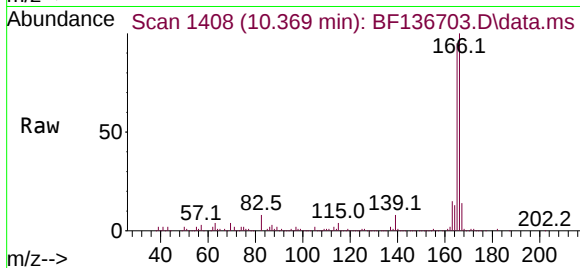
Tgt Ion:166 Resp: 136871

Ion Ratio Lower Upper

166 100

165 95.3 73.7 110.5

167 13.7 10.4 15.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1568

Delta R.T. -0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

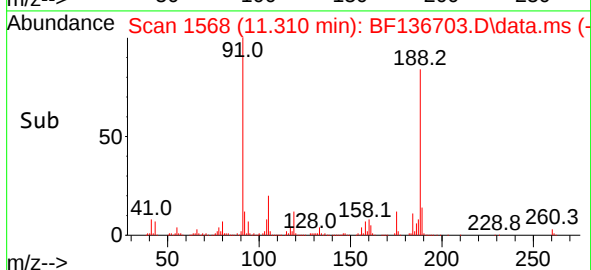
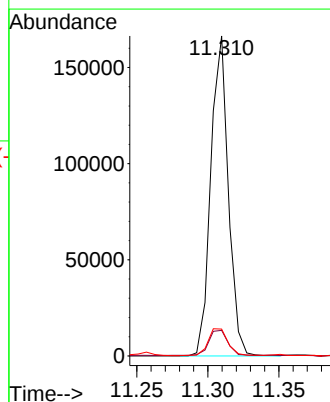
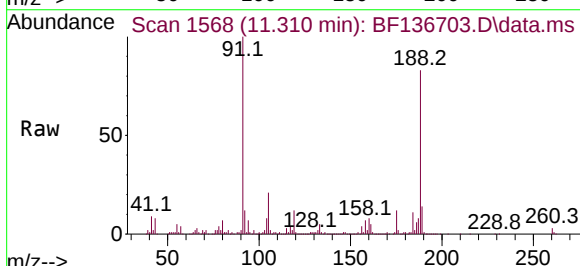
Tgt Ion:188 Resp: 143191

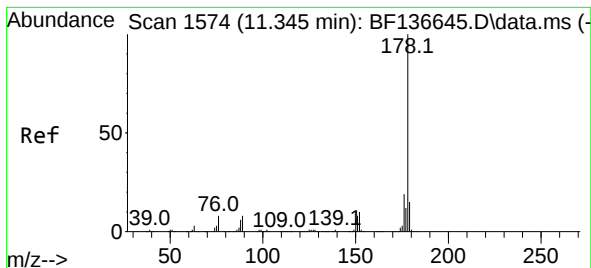
Ion Ratio Lower Upper

188 100

94 8.0 7.5 11.3

80 8.4 8.1 12.1





#71

Phenanthrene

Concen: 69.548 ng

RT: 11.333 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

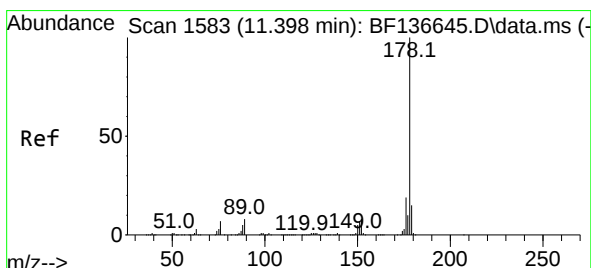
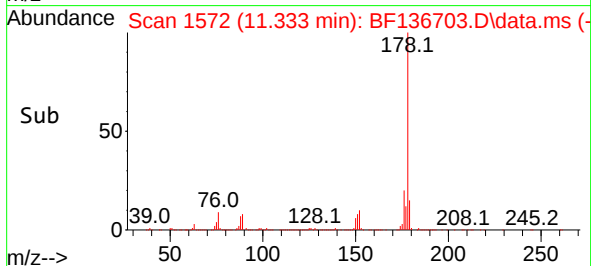
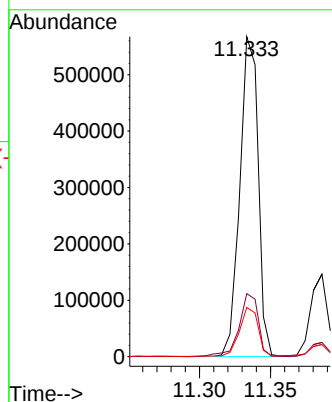
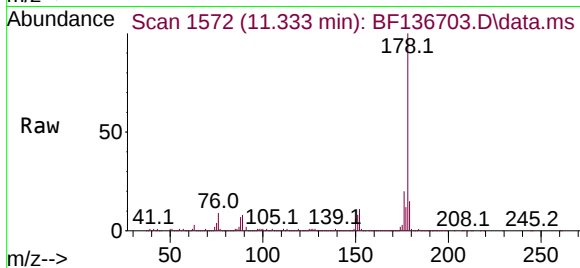
Tgt Ion:178 Resp: 510988

Ion Ratio Lower Upper

178 100

176 19.7 15.3 22.9

179 15.4 11.9 17.9



#72

Anthracene

Concen: 16.108 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

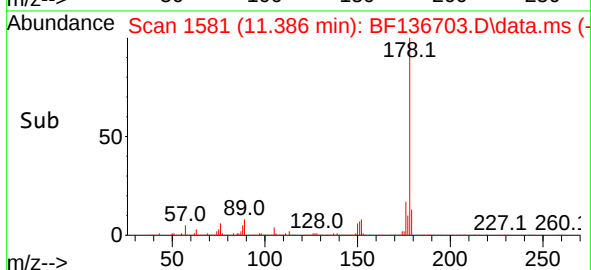
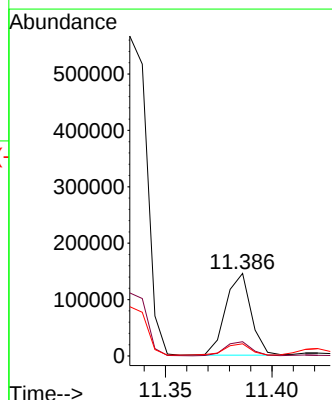
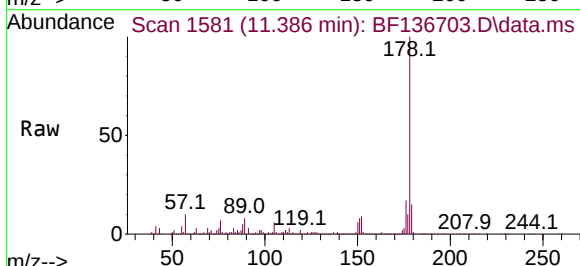
Tgt Ion:178 Resp: 119857

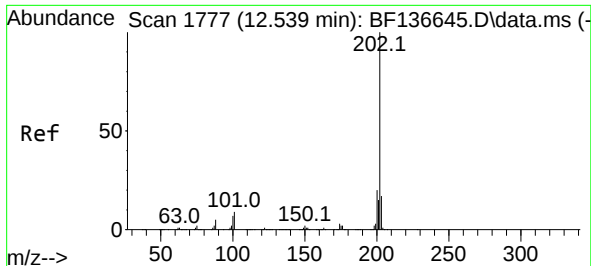
Ion Ratio Lower Upper

178 100

176 17.3 14.9 22.3

179 14.7 11.8 17.6

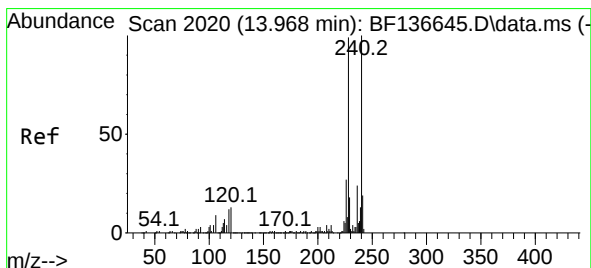
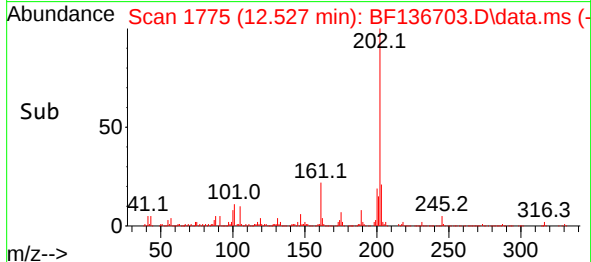
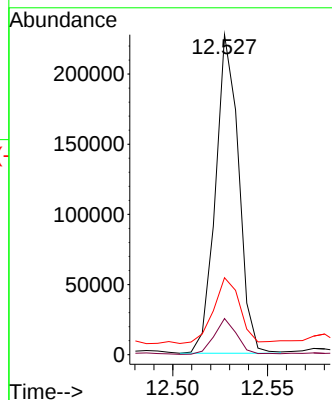
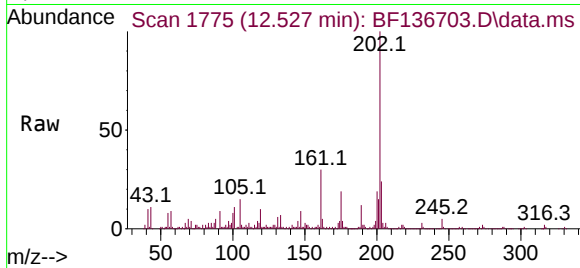




#75
Fluoranthene
Concen: 24.602 ng
RT: 12.527 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

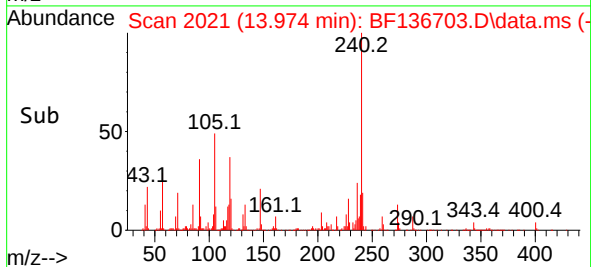
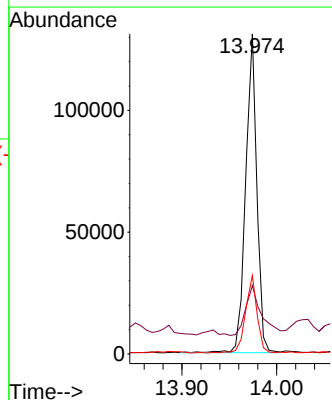
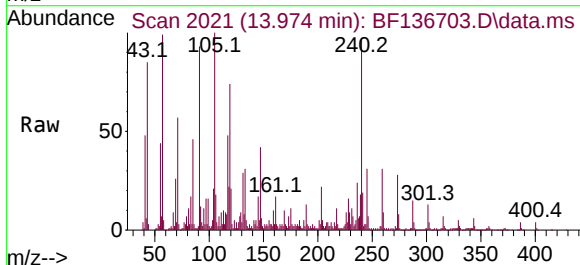
Instrument :
BNA_F
ClientSampleId :
WC-SOLIDS-20231213-01

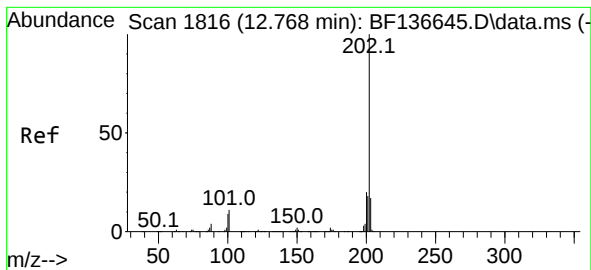
Tgt Ion:202 Resp: 193347
Ion Ratio Lower Upper
202 100
101 11.3 0.0 29.3
203 24.1 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF136703.D
Acq: 23 Dec 2023 00:35

Tgt Ion:240 Resp: 107040
Ion Ratio Lower Upper
240 100
120 21.4 10.3 15.5#
236 24.5 19.4 29.2





#78

Pyrene

Concen: 29.940 ng

RT: 12.763 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

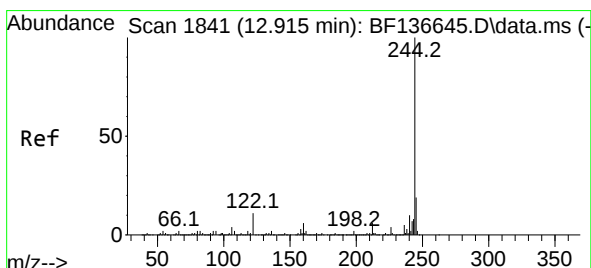
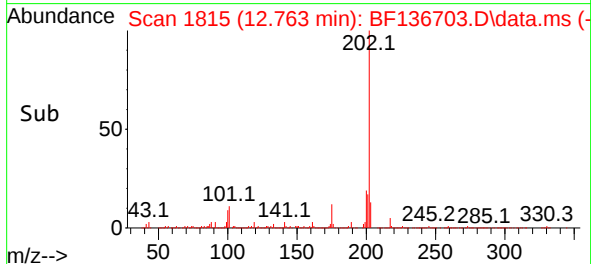
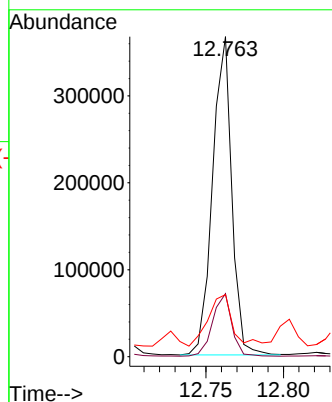
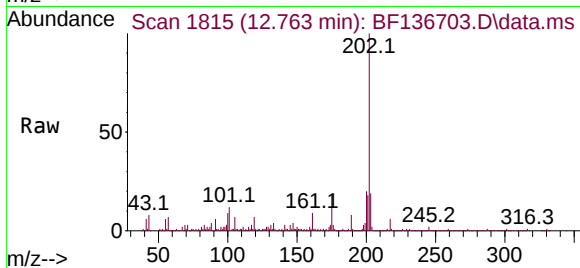
Tgt Ion:202 Resp: 314603

Ion Ratio Lower Upper

202 100

200 19.7 15.9 23.9

203 19.4 13.8 20.6



#79

Terphenyl-d14

Concen: 8.802 ng

RT: 12.904 min Scan# 1839

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

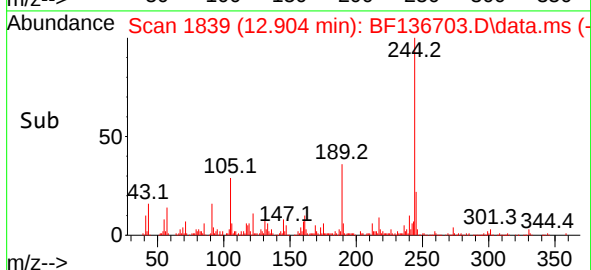
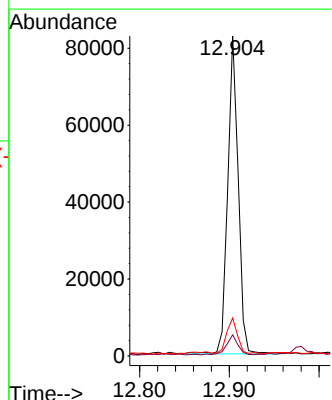
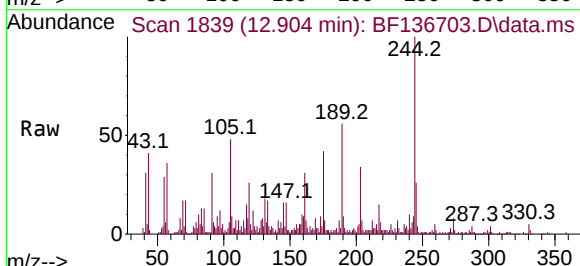
Tgt Ion:244 Resp: 67421

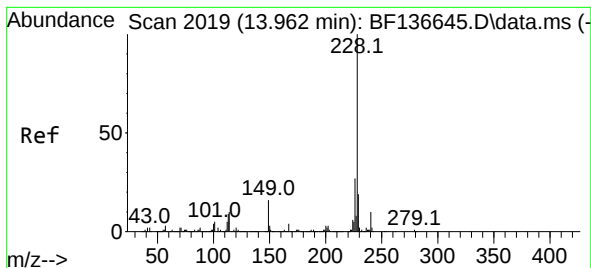
Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

122 11.9 9.0 13.4





#81

Benzo(a)anthracene

Concen: 16.123 ng

RT: 13.962 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

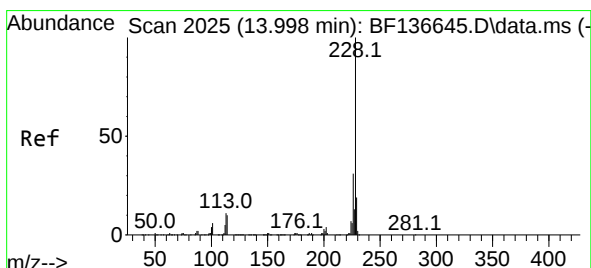
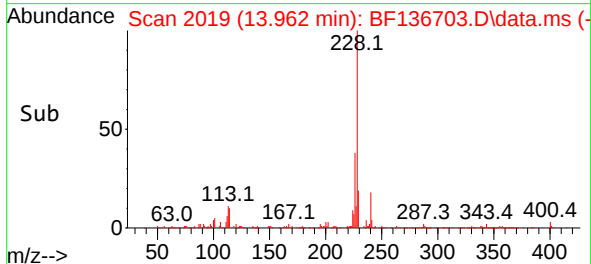
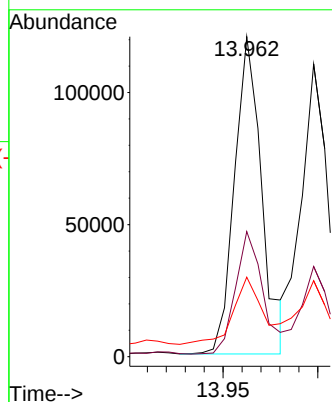
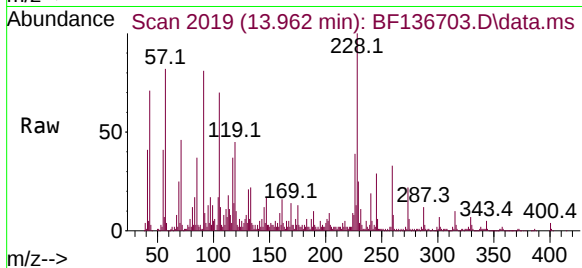
Tgt Ion:228 Resp: 119835

Ion Ratio Lower Upper

228 100

226 39.1 21.4 32.0#

229 24.8 14.9 22.3#



#83

Chrysene

Concen: 14.278 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.000 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

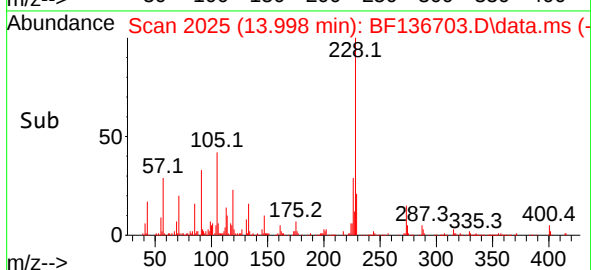
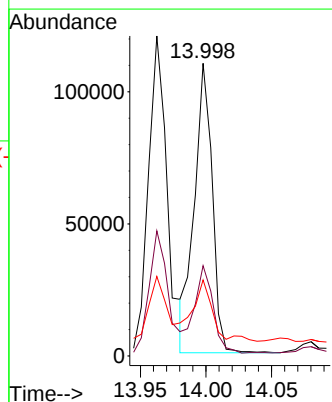
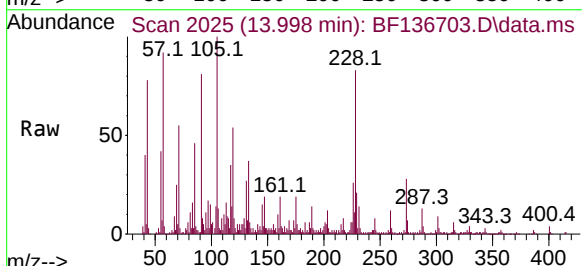
Tgt Ion:228 Resp: 103782

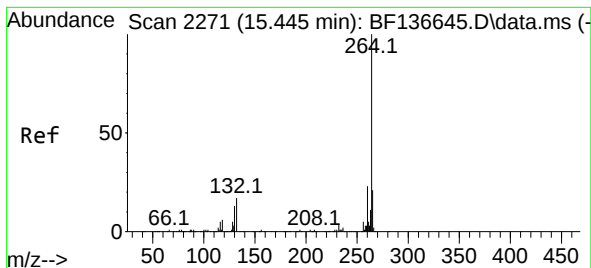
Ion Ratio Lower Upper

228 100

226 30.8 24.7 37.1

229 26.0 15.4 23.0#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

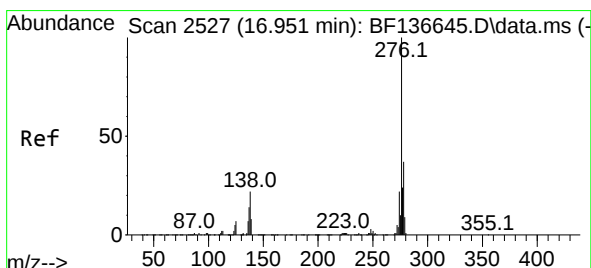
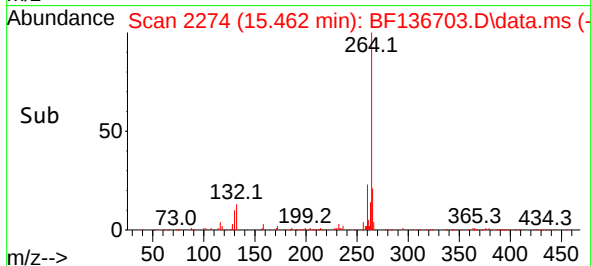
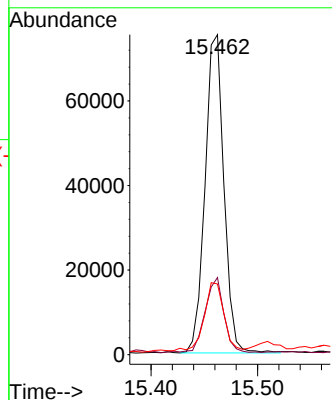
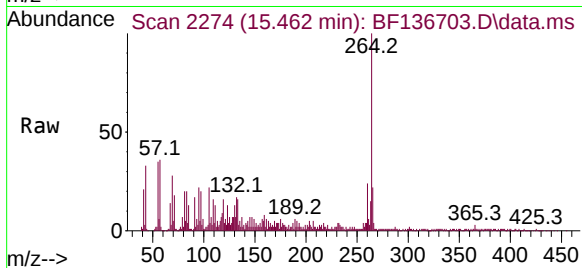
Tgt Ion:264 Resp: 92980

Ion Ratio Lower Upper

264 100

260 24.1 18.3 27.5

265 22.1 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.149 ng

RT: 16.945 min Scan# 2526

Delta R.T. -0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

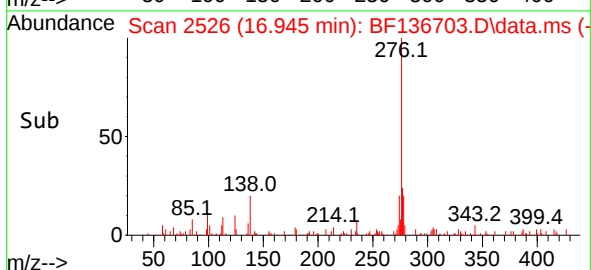
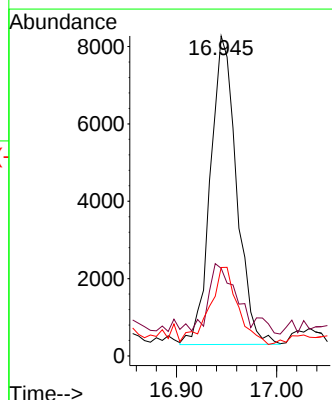
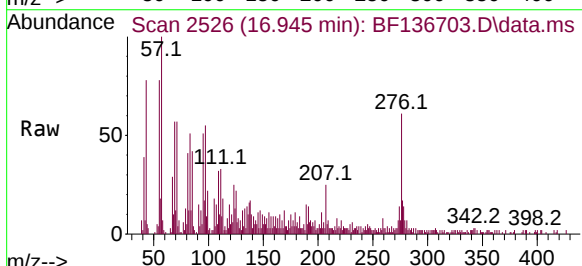
Tgt Ion:276 Resp: 14430

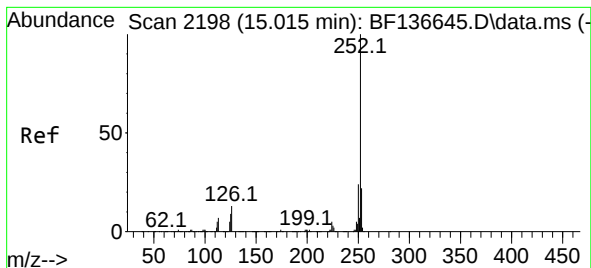
Ion Ratio Lower Upper

276 100

138 26.0 18.7 28.1

277 26.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 9.746 ng

RT: 15.027 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

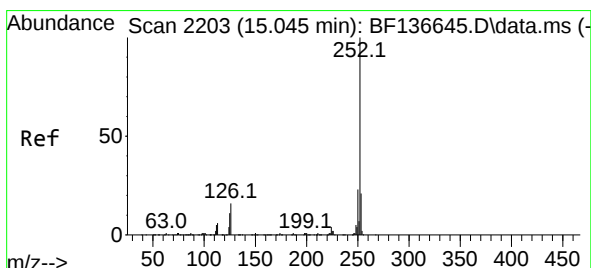
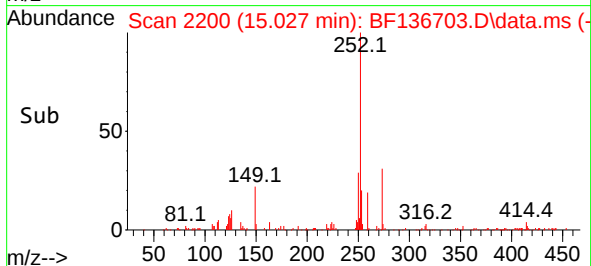
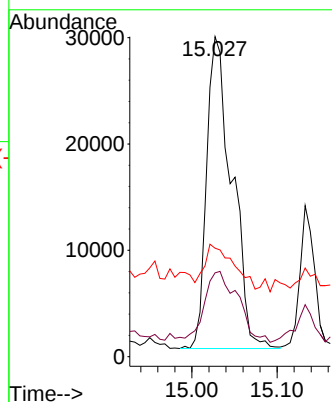
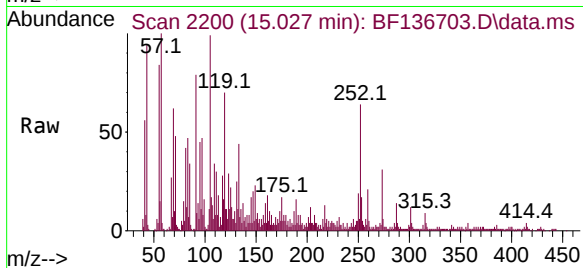
Tgt Ion:252 Resp: 60525

Ion Ratio Lower Upper

252 100

253 26.2 17.4 26.0#

125 33.9 7.4 11.2#



#89

Benzo(k)fluoranthene

Concen: 10.314 ng

RT: 15.027 min Scan# 2200

Delta R.T. -0.018 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

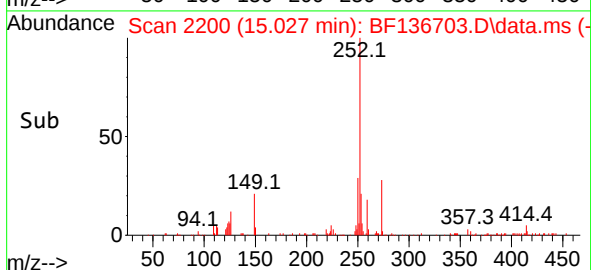
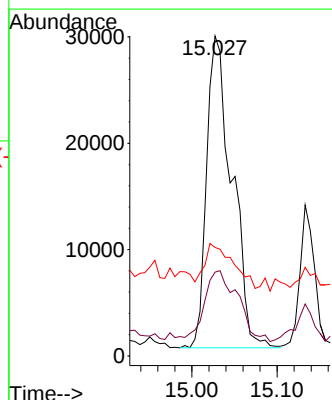
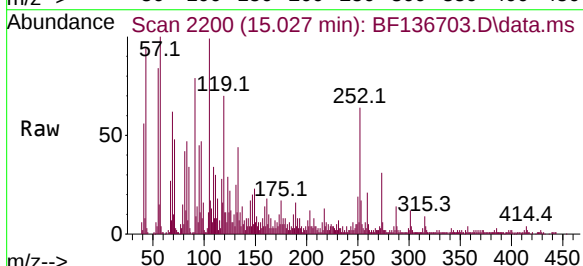
Tgt Ion:252 Resp: 60525

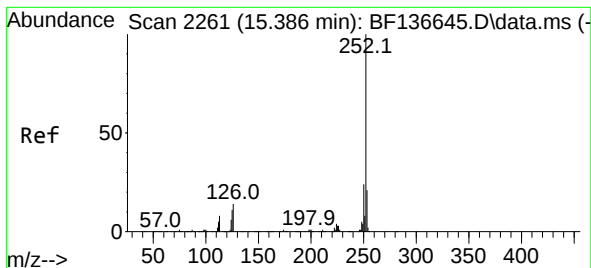
Ion Ratio Lower Upper

252 100

253 26.2 17.0 25.6#

125 33.9 8.2 12.4#





#90

Benzo(a)pyrene

Concen: 9.654 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Instrument :

BNA_F

ClientSampleId :

WC-SOLIDS-20231213-01

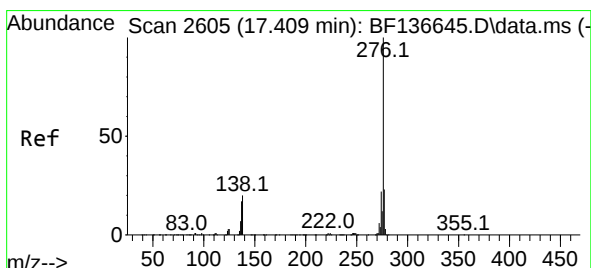
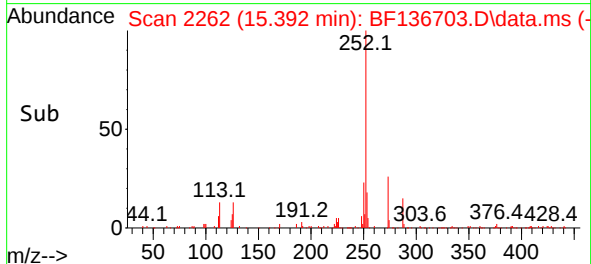
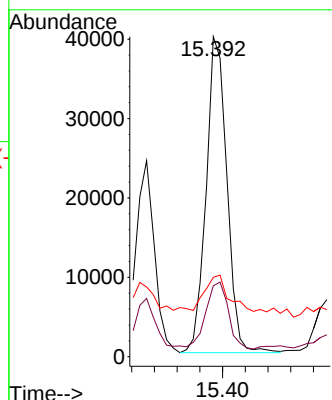
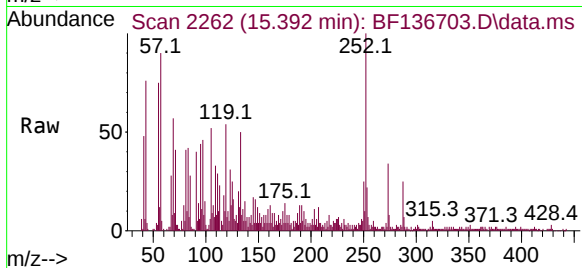
Tgt Ion:252 Resp: 50606

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.6

125 24.8 8.8 13.2#



#92

Benzo(g,h,i)perylene

Concen: 2.764 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.012 min

Lab File: BF136703.D

Acq: 23 Dec 2023 00:35

Tgt Ion:276 Resp: 15591

Ion Ratio Lower Upper

276 100

277 31.4 18.3 27.5#

138 25.4 15.6 23.4#

