

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092123\
 Data File : BF135387.D
 Acq On : 21 Sep 2023 18:44
 Operator : CG\JU
 Sample : 04512-02 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11986

Quant Time: Sep 21 20:32:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

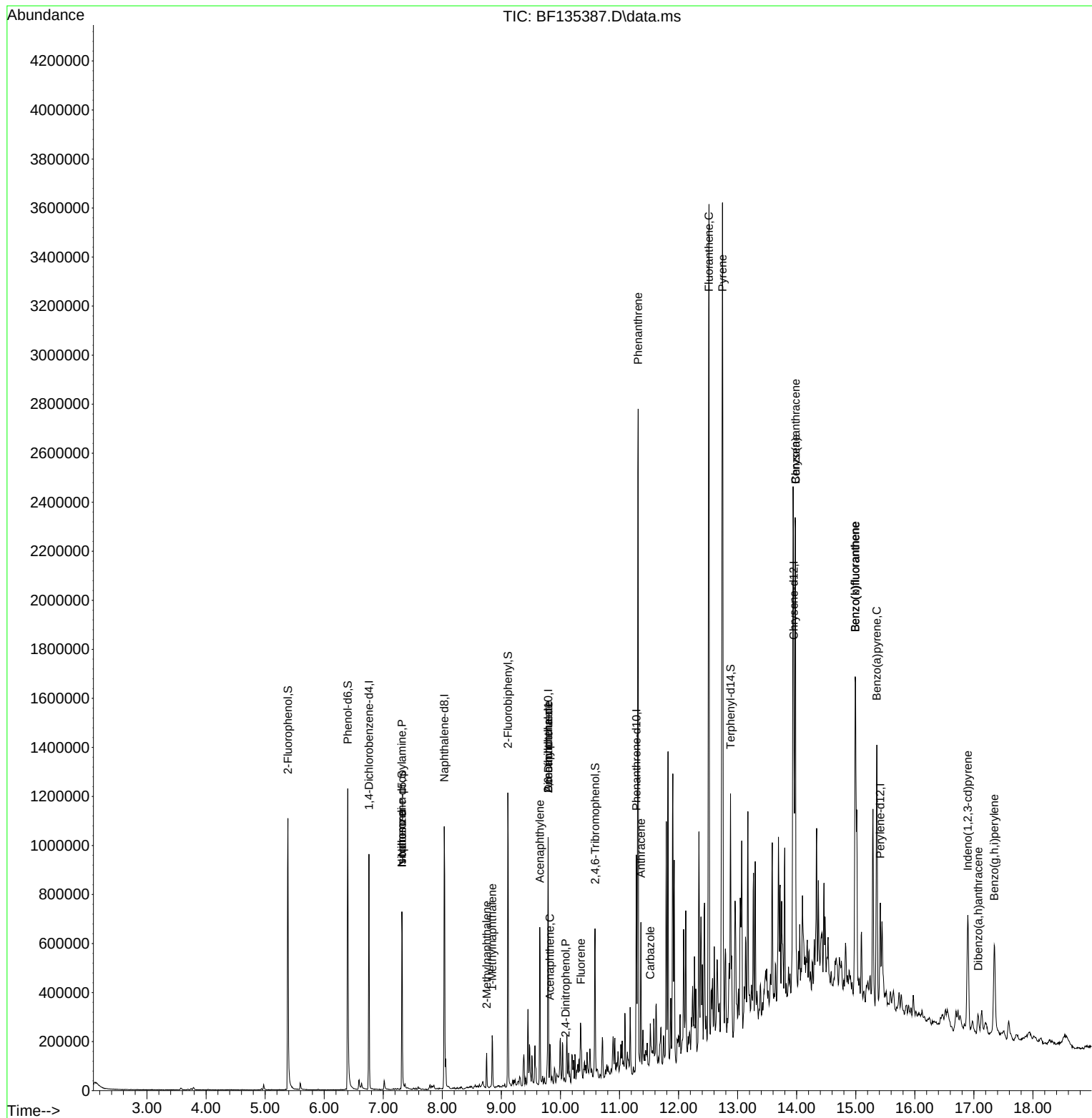
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	128600	20.000	ng	0.00
21) Naphthalene-d8	8.034	136	458520	20.000	ng	#-0.01
39) Acenaphthene-d10	9.792	164	185357	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	319036	20.000	ng	# 0.00
76) Chrysene-d12	13.951	240	211511	20.000	ng	0.00
86) Perylene-d12	15.415	264	186044	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	320352	40.516	ng	0.00
7) Phenol-d6	6.398	99	396568	39.444	ng	0.00
23) Nitrobenzene-d5	7.316	82	220273	26.100	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	59615	32.364	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	369135	30.046	ng	-0.02
79) Terphenyl-d14	12.880	244	299605	21.958	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.316	70	28608	4.594	ng	# 82
25) Isophorone	7.316	82	220268	14.213	ng	# 65
37) 2-Methylnaphthalene	8.751	142	37371	2.496	ng	96
38) 1-Methylnaphthalene	8.845	142	55396	3.951	ng	98
49) Acenaphthylene	9.651	152	233808	13.612	ng	97
50) Dimethylphthalate	9.792	163	36857	2.941	ng	# 1
51) 2,6-Dinitrotoluene	9.792	165	27629	10.064	ng	# 18
52) Acenaphthene	9.822	154	33090	3.261	ng	99
54) 2,4-Dinitrophenol	10.086	184	111	6.313	ng	# 1
58) Fluorene	10.345	166	69265	5.819	ng	96
71) Phenanthrene	11.316	178	1027170	68.074	ng	99
72) Anthracene	11.363	178	210465	13.570	ng	99
73) Carbazole	11.522	167	54107	3.832	ng	97
75) Fluoranthene	12.516	202	1578944	100.425	ng	99
78) Pyrene	12.745	202	1661753	82.520	ng	100
81) Benzo(a)anthracene	13.980	228	818949	59.962	ng	94
83) Chrysene	13.980	228	818949	60.310	ng	98
87) Indeno(1,2,3-cd)pyrene	16.898	276	307331	25.195	ng	99
88) Benzo(b)fluoranthene	14.992	252	1021645	101.442	ng	# 95
89) Benzo(k)fluoranthene	14.992	252	1021645	102.692	ng	# 95
90) Benzo(a)pyrene	15.357	252	525662	54.732	ng	98
91) Dibenzo(a,h)anthracene	17.074	278	64189	6.431	ng	93
92) Benzo(g,h,i)perylene	17.345	276	303735	29.139	ng	# 95

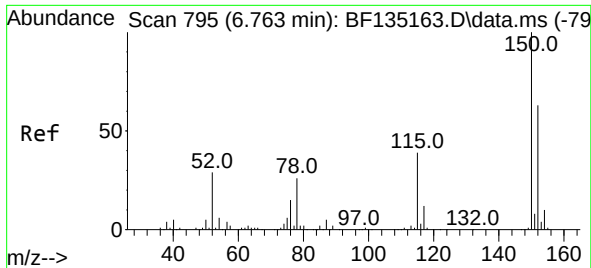
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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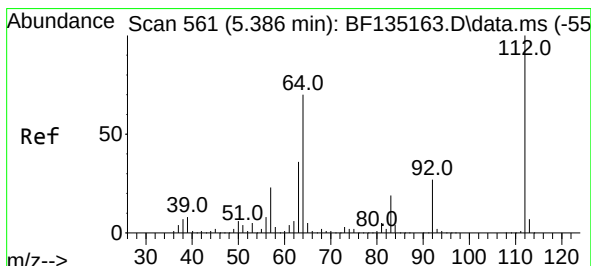
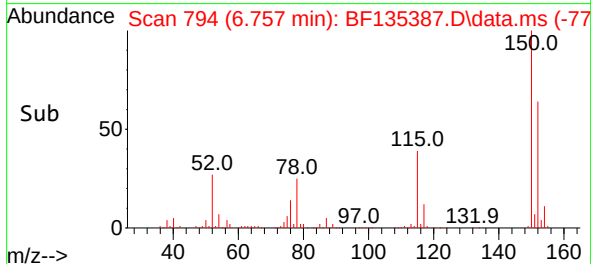
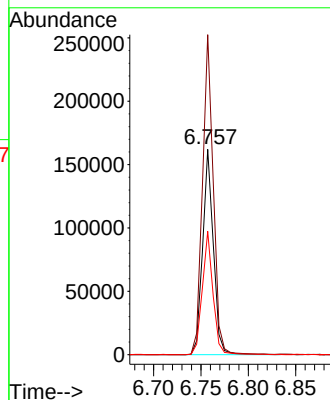
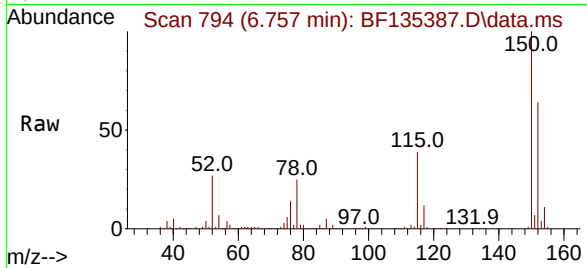




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

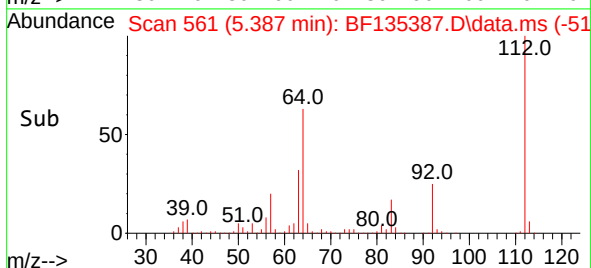
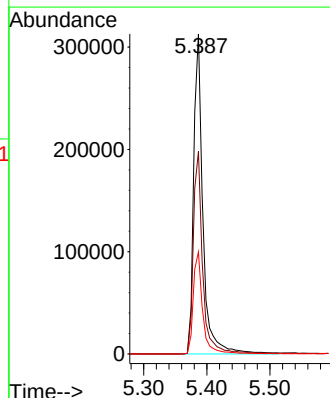
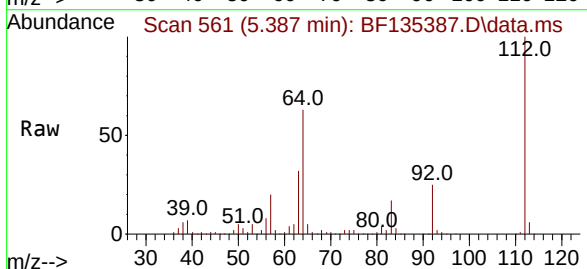
Instrument :
BNA_F
ClientSampleId :
72-11986

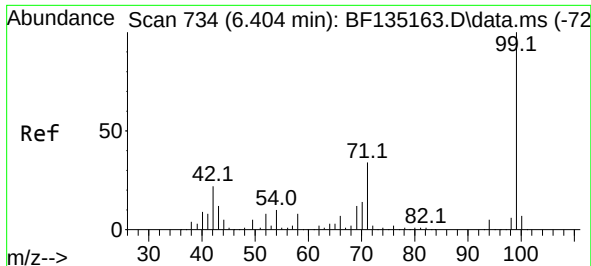
Tgt Ion:152 Resp: 128600
Ion Ratio Lower Upper
152 100
150 155.8 127.8 191.6
115 60.1 49.8 74.8



#5
2-Fluorophenol
Concen: 40.516 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:112 Resp: 320352
Ion Ratio Lower Upper
112 100
64 63.3 55.9 83.9
63 31.9 29.0 43.6





#7

Phenol-d6

Concen: 39.444 ng

RT: 6.398 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

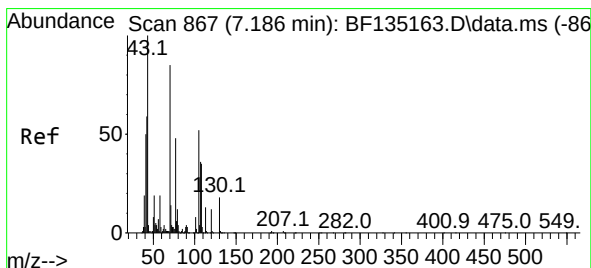
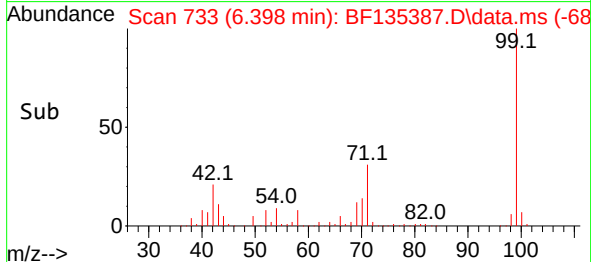
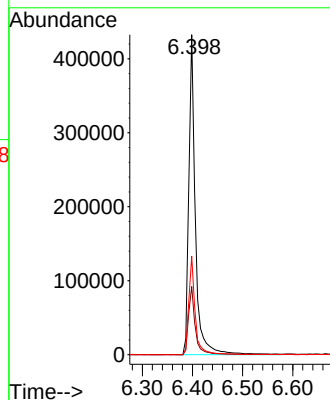
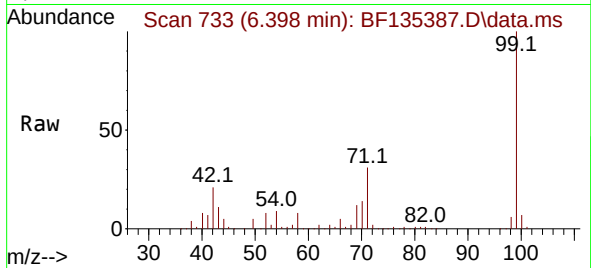
Tgt Ion: 99 Resp: 396568

Ion Ratio Lower Upper

99 100

42 21.3 17.9 26.9

71 30.8 27.0 40.6



#19

n-Nitroso-di-n-propylamine

Concen: 4.594 ng

RT: 7.316 min Scan# 889

Delta R.T. 0.130 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Tgt Ion: 70 Resp: 28608

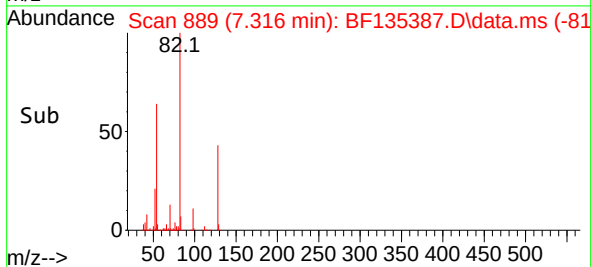
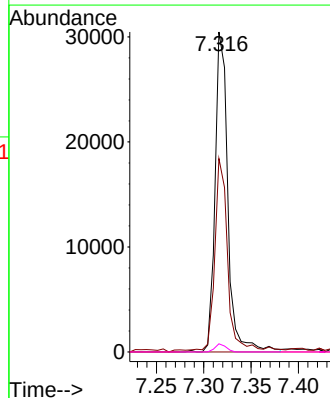
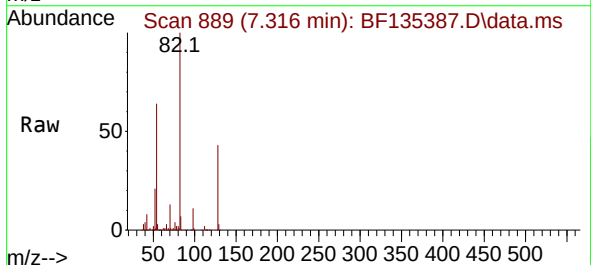
Ion Ratio Lower Upper

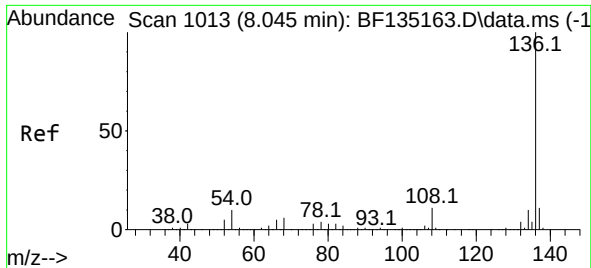
70 100

42 60.5 55.4 83.0

101 0.0 7.7 11.5#

130 2.6 17.0 25.6#

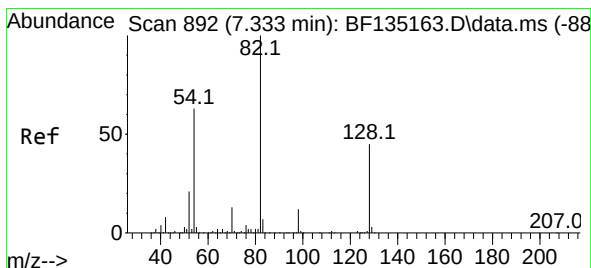
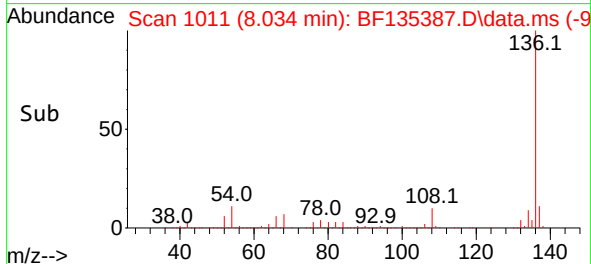
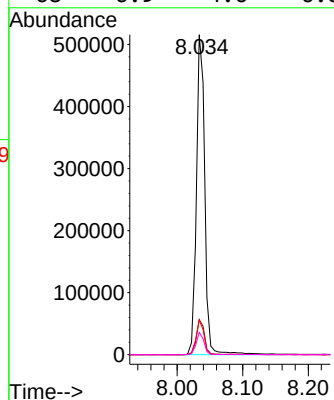
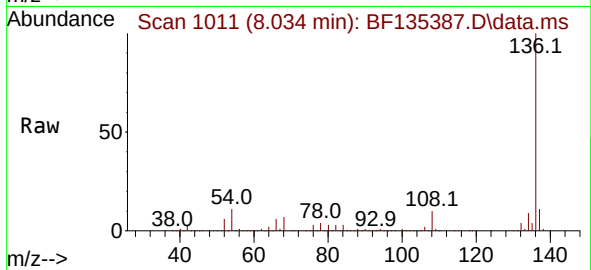




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.034 min Scan# 1013
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

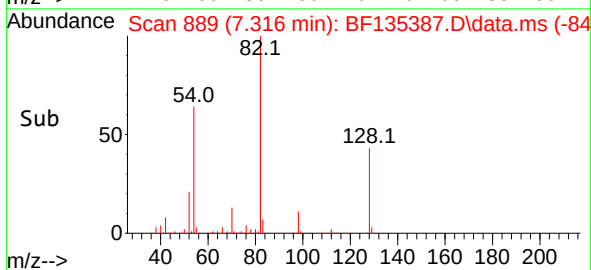
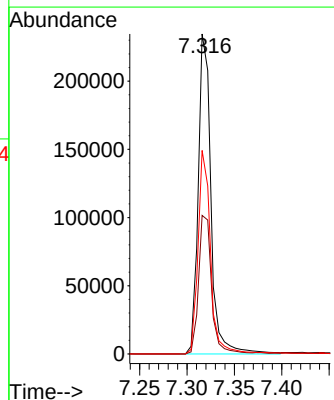
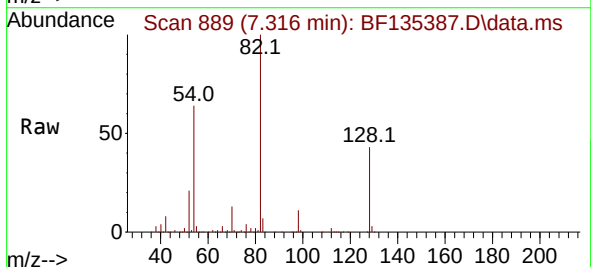
Instrument :
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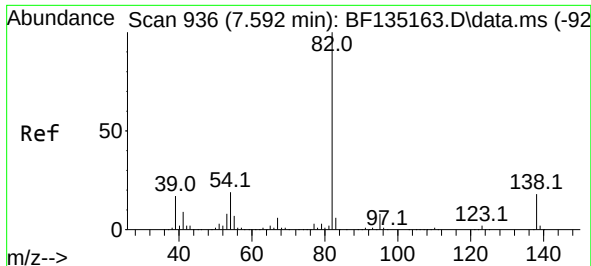
Tgt Ion:136 Resp: 458520
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.9 7.7 11.5
68 6.9 4.6 6.8#



#23
Nitrobenzene-d5
Concen: 26.100 ng
RT: 7.316 min Scan# 889
Delta R.T. -0.017 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion: 82 Resp: 220273
Ion Ratio Lower Upper
82 100
128 43.3 35.8 53.6
54 63.6 50.6 76.0

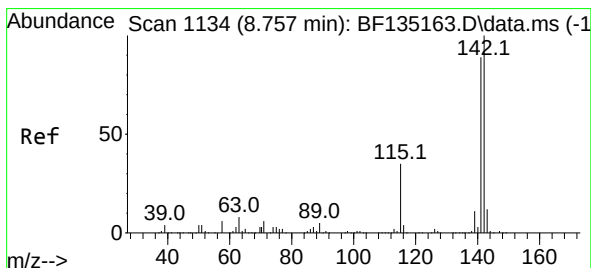
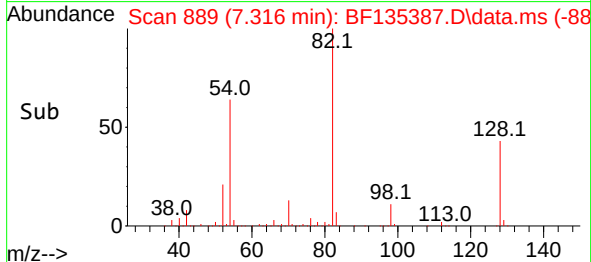
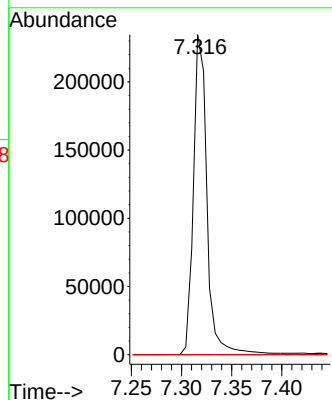
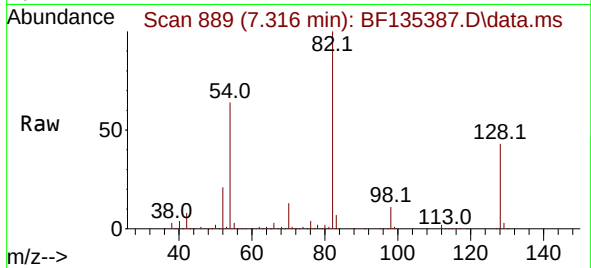




#25
Isophorone
Concen: 14.213 ng
RT: 7.316 min Scan# 81
Delta R.T. -0.276 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

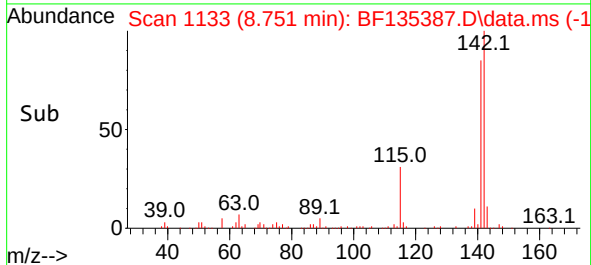
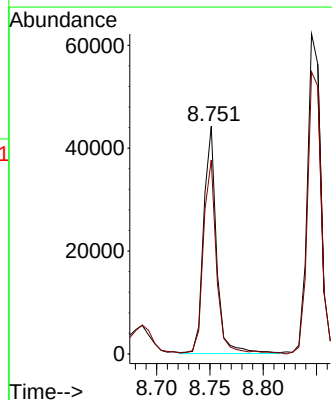
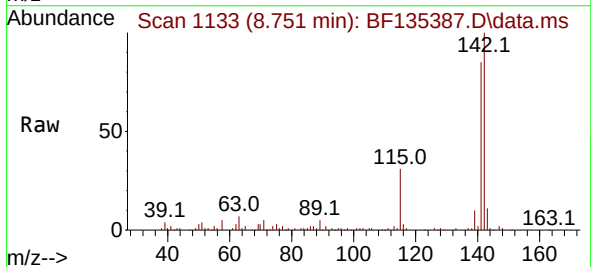
Instrument :
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ClientSampleId :
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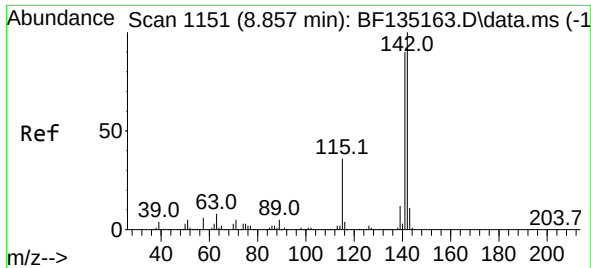
Tgt Ion: 82 Resp: 220268
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 14.5 21.7#



#37
2-Methylnaphthalene
Concen: 2.496 ng
RT: 8.751 min Scan# 1133
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion: 142 Resp: 37371
Ion Ratio Lower Upper
142 100
141 85.2 71.0 106.6

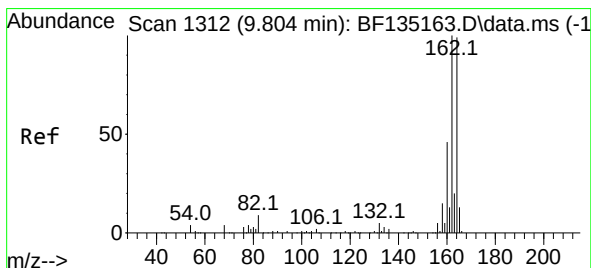
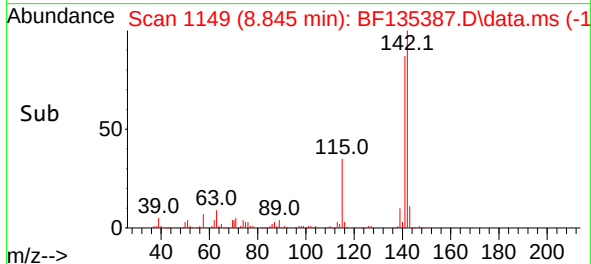
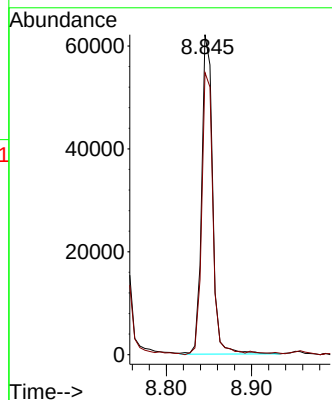
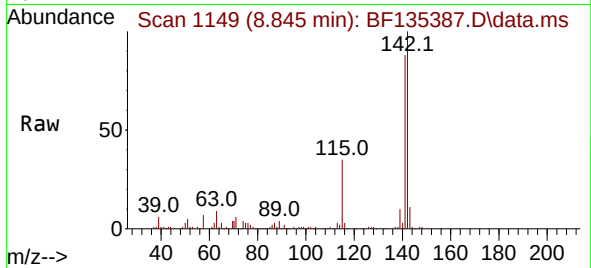




#38
1-Methylnaphthalene
Concen: 3.951 ng
RT: 8.845 min Scan# 1151
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

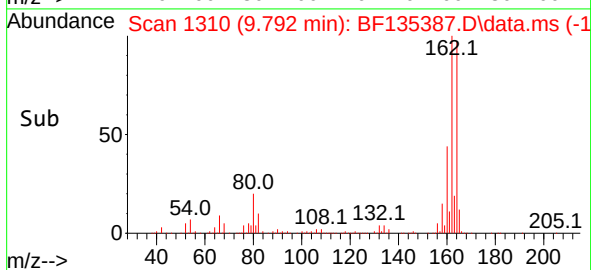
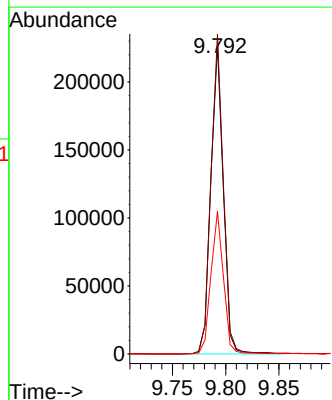
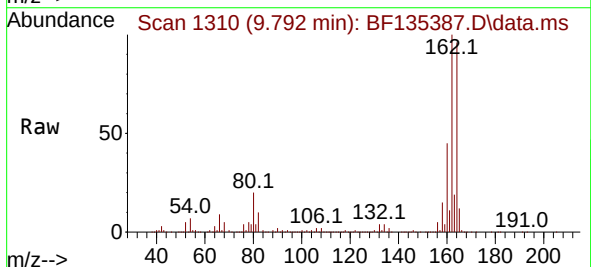
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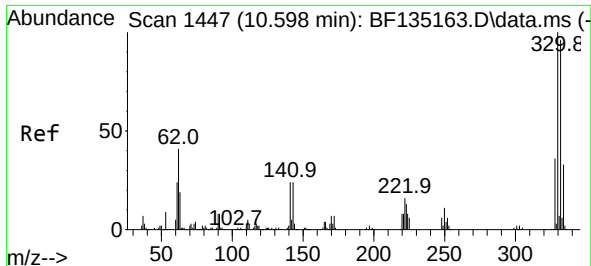
Tgt Ion:142 Resp: 55396
Ion Ratio Lower Upper
142 100
141 88.1 72.4 108.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 1310
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:164 Resp: 185357
Ion Ratio Lower Upper
164 100
162 103.6 81.0 121.4
160 46.2 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 32.364 ng

RT: 10.586 min Scan# 1445

Delta R.T. -0.012 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

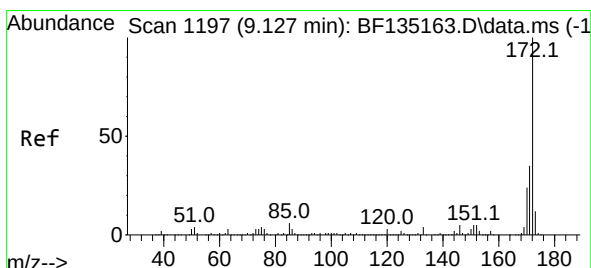
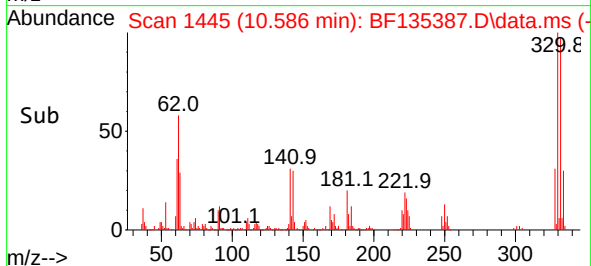
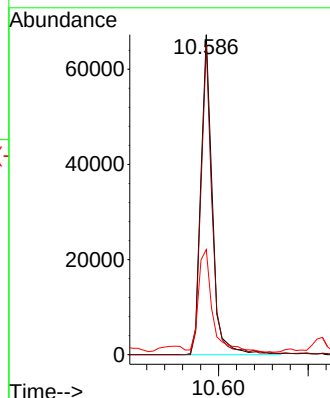
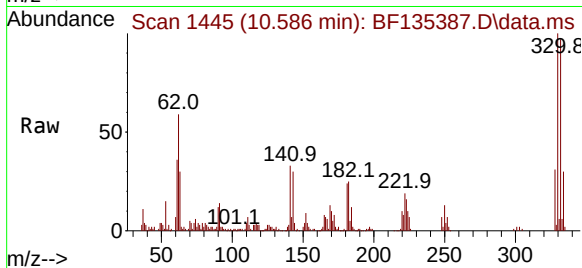
Tgt Ion:330 Resp: 59615

Ion Ratio Lower Upper

330 100

332 94.1 77.3 115.9

141 39.3 25.8 38.8#



#45

2-Fluorobiphenyl

Concen: 30.046 ng

RT: 9.110 min Scan# 1194

Delta R.T. -0.017 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

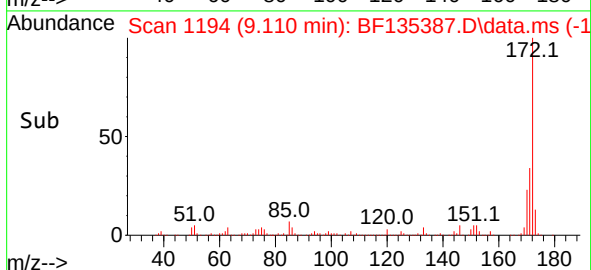
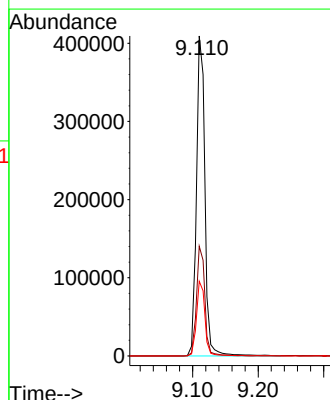
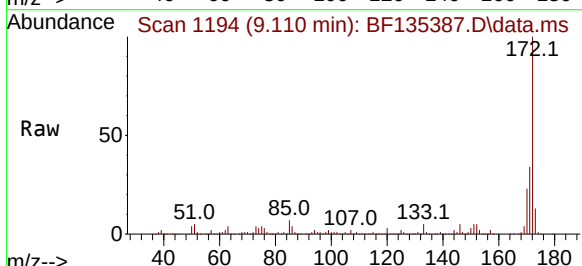
Tgt Ion:172 Resp: 369135

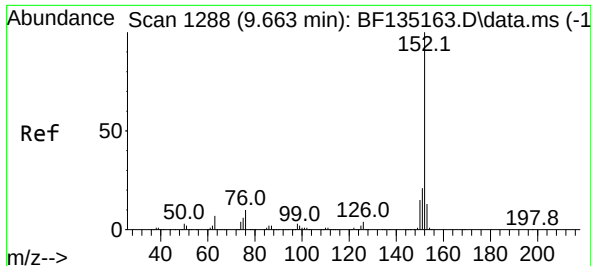
Ion Ratio Lower Upper

172 100

171 34.3 28.4 42.6

170 23.4 19.0 28.4





#49

Acenaphthylene

Concen: 13.612 ng

RT: 9.651 min Scan# 1310

Delta R.T. -0.012 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

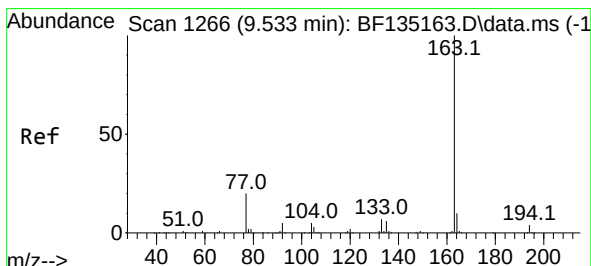
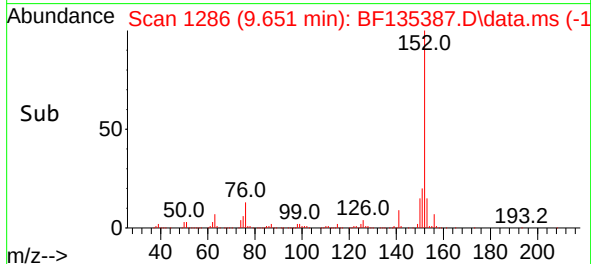
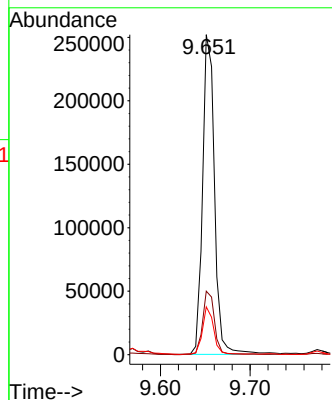
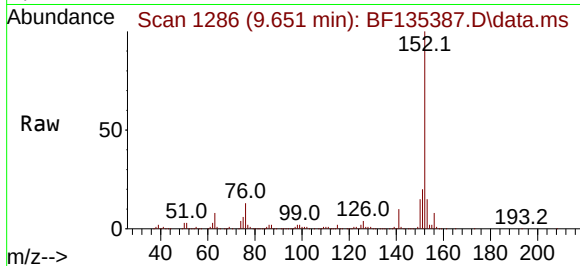
Tgt Ion:152 Resp: 233808

Ion Ratio Lower Upper

152 100

151 19.9 16.4 24.6

153 15.0 10.4 15.6



#50

Dimethylphthalate

Concen: 2.941 ng

RT: 9.792 min Scan# 1310

Delta R.T. 0.259 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

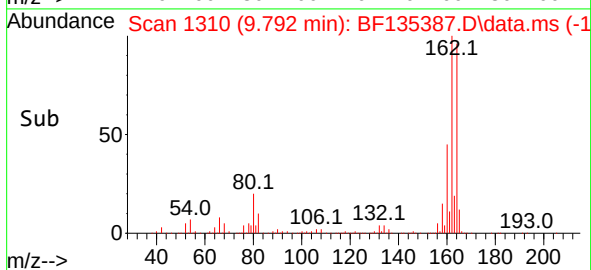
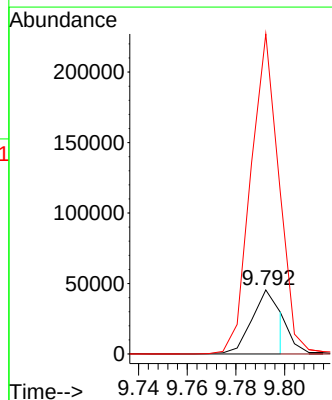
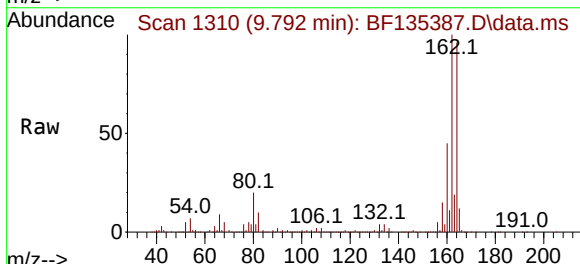
Tgt Ion:163 Resp: 36857

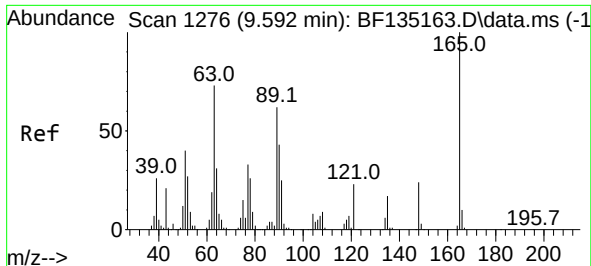
Ion Ratio Lower Upper

163 100

194 0.0 3.1 4.7#

164 500.5 8.1 12.1#

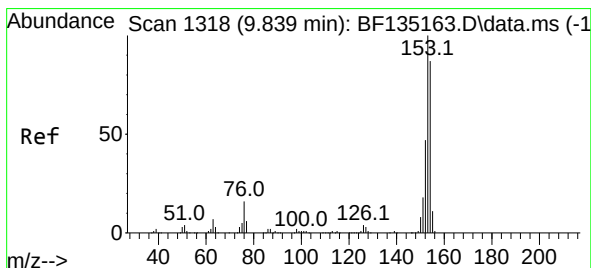
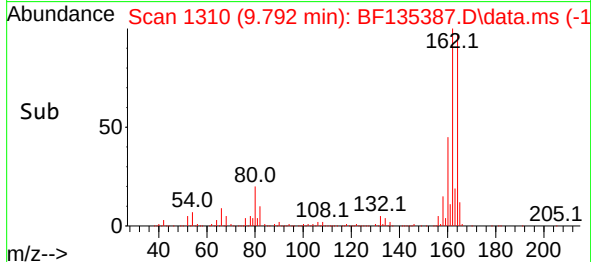
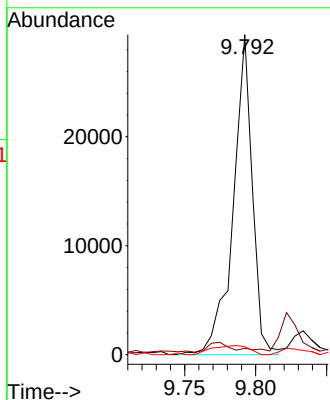
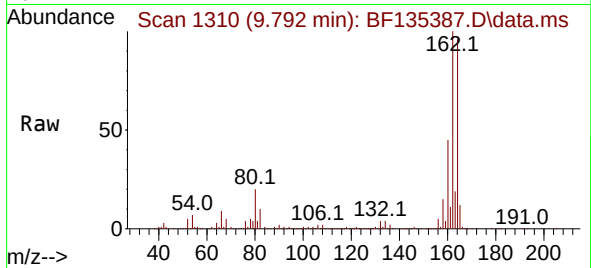




#51
2,6-Dinitrotoluene
Concen: 10.064 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

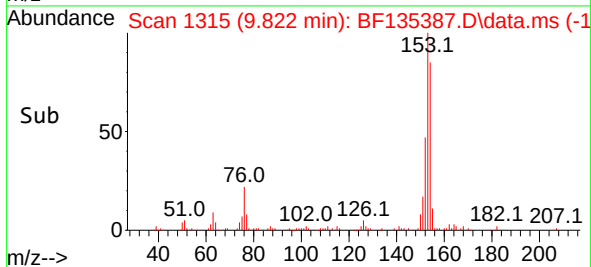
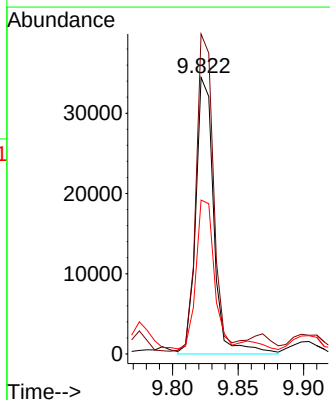
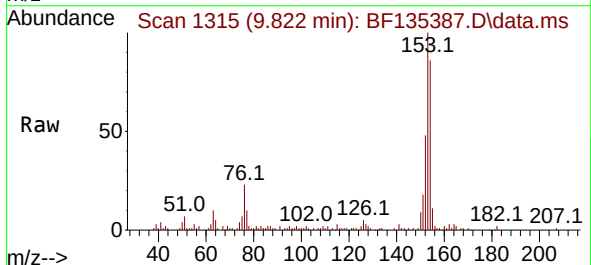
Instrument :
BNA_F
ClientSampleId :
72-11986

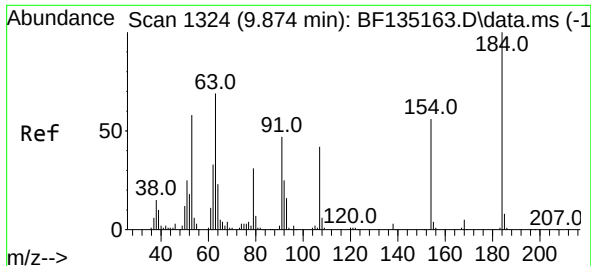
Tgt Ion:165 Resp: 27629
Ion Ratio Lower Upper
165 100
63 2.0 59.4 89.2#
89 2.5 49.8 74.8#



#52
Acenaphthene
Concen: 3.261 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.017 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:154 Resp: 33090
Ion Ratio Lower Upper
154 100
153 115.8 92.1 138.1
152 55.7 43.1 64.7

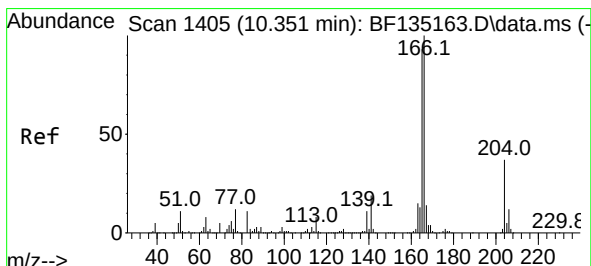
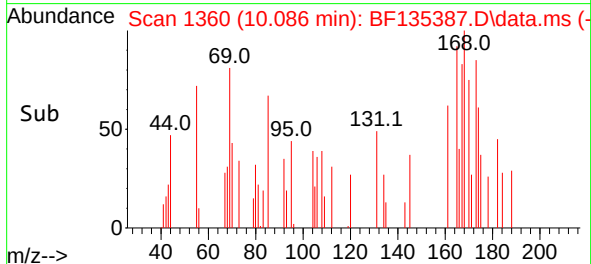
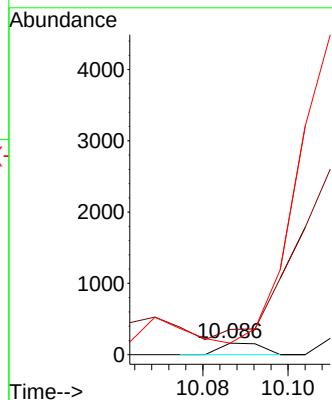
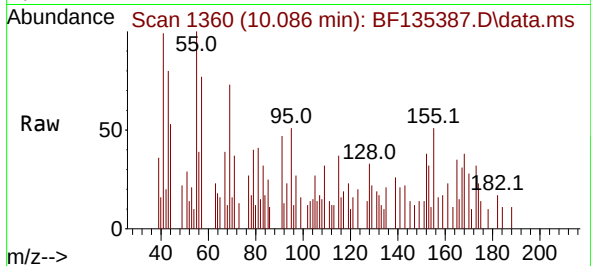




#54
2,4-Dinitrophenol
Concen: 6.313 ng
RT: 10.086 min Scan# 111
Delta R.T. 0.212 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

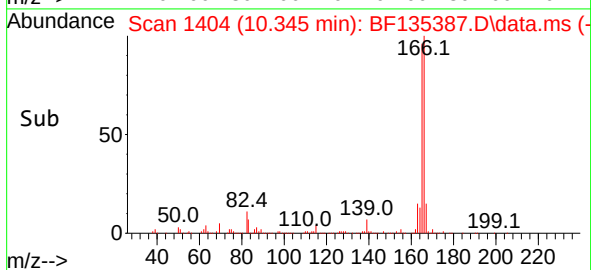
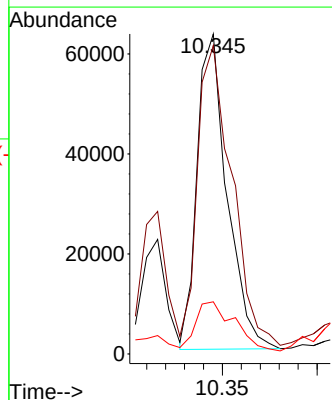
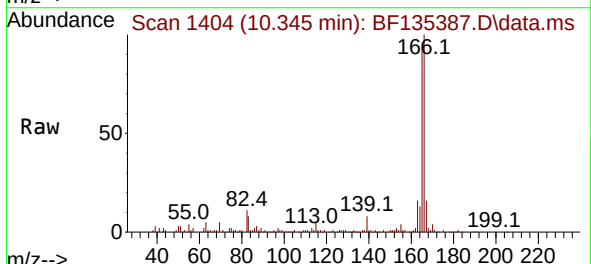
Instrument :
BNA_F
ClientSampleId :
72-11986

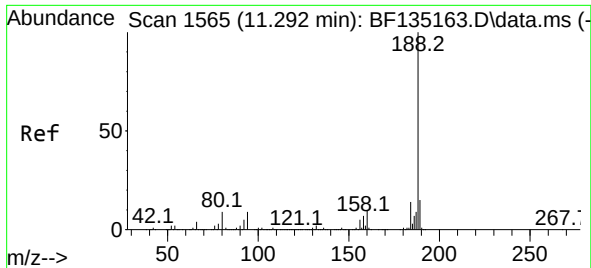
Tgt Ion:184 Resp: 111
Ion Ratio Lower Upper
184 100
63 218.5 55.1 82.7#
154 100.0 48.4 72.6#



#58
Fluorene
Concen: 5.819 ng
RT: 10.345 min Scan# 1404
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:166 Resp: 69265
Ion Ratio Lower Upper
166 100
165 96.4 74.3 111.5
167 16.3 10.9 16.3

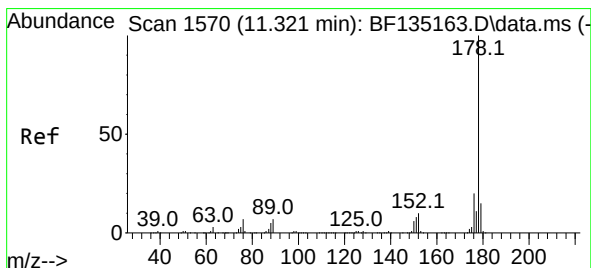
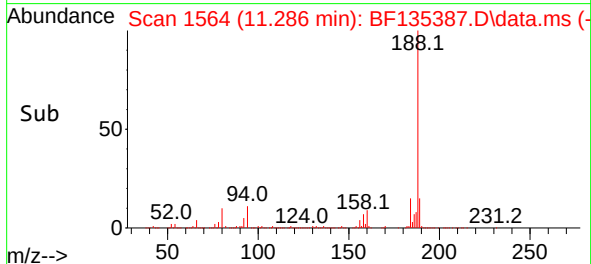
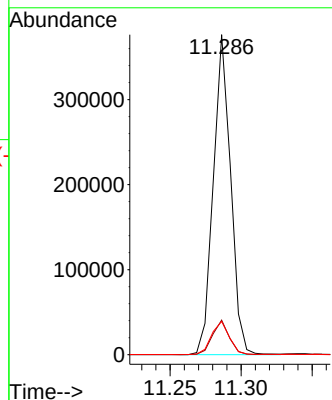
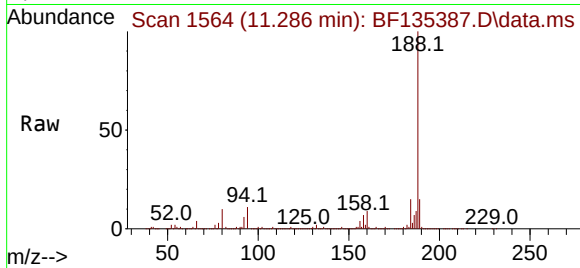




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

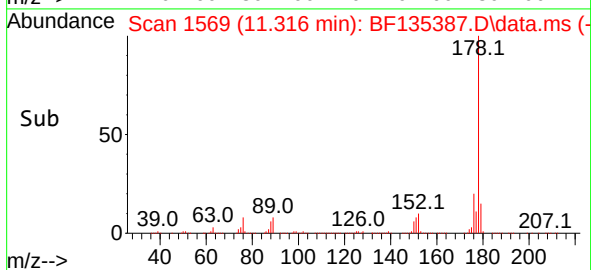
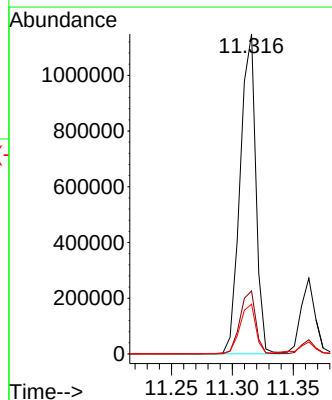
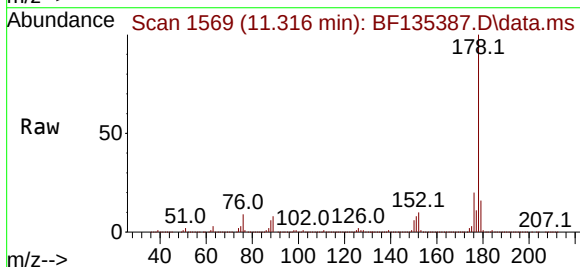
Instrument :
BNA_F
ClientSampleId :
72-11986

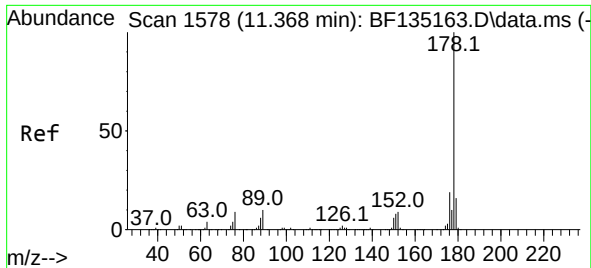
Tgt Ion:188 Resp: 319036
Ion Ratio Lower Upper
188 100
94 10.8 7.0 10.6#
80 10.4 7.5 11.3



#71
Phenanthrene
Concen: 68.074 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:178 Resp: 1027170
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.6 12.0 18.0

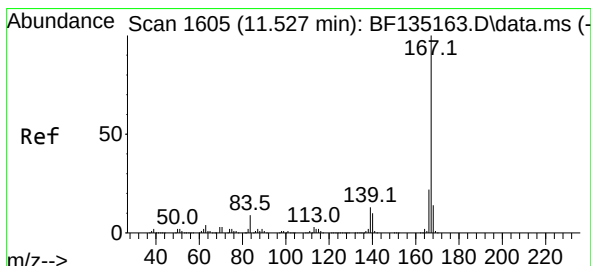
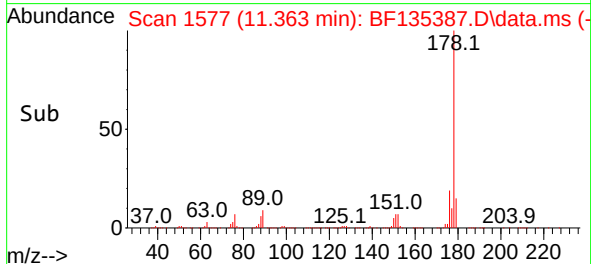
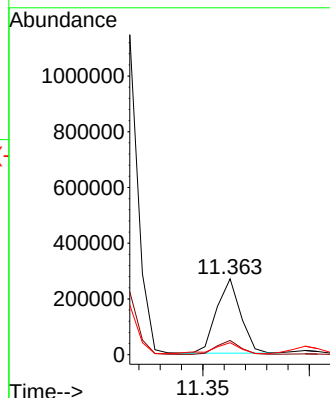
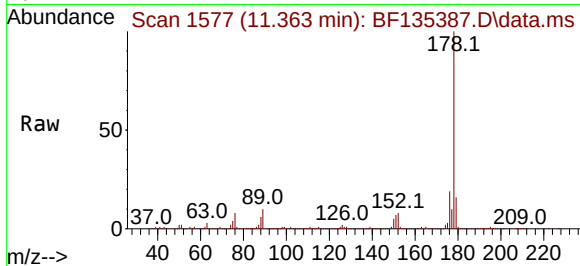




#72
 Anthracene
 Concen: 13.570 ng
 RT: 11.363 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135387.D
 Acq: 21 Sep 2023 18:44

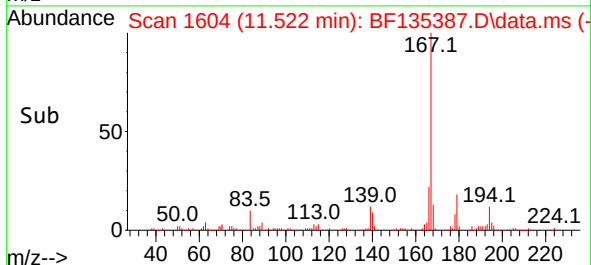
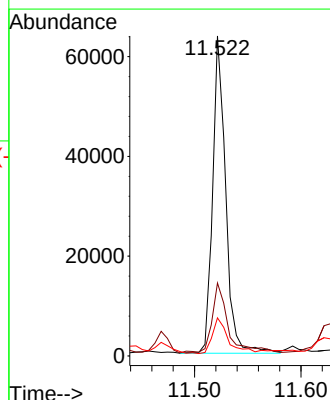
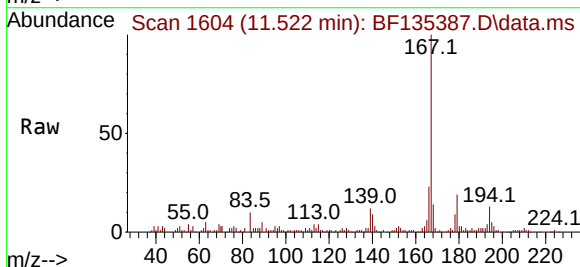
Instrument :
 BNA_F
 ClientSampleId :
 72-11986

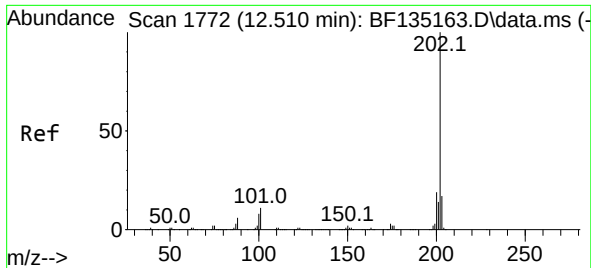
Tgt Ion:178 Resp: 210465
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.8 12.6 19.0



#73
 Carbazole
 Concen: 3.832 ng
 RT: 11.522 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135387.D
 Acq: 21 Sep 2023 18:44

Tgt Ion:167 Resp: 54107
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.4 26.0
 139 11.9 10.6 15.8

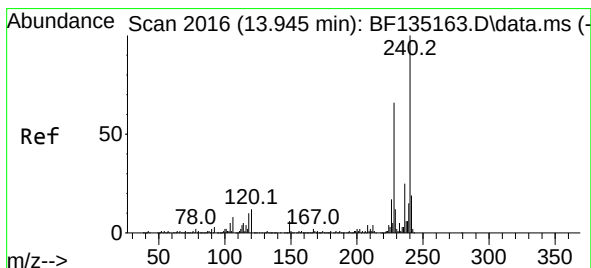
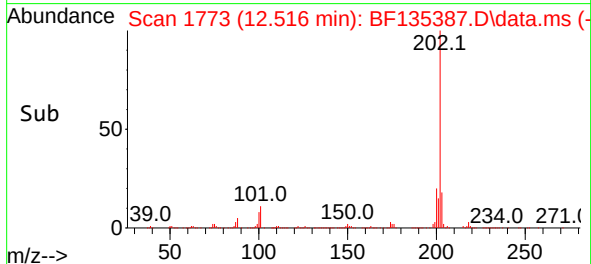
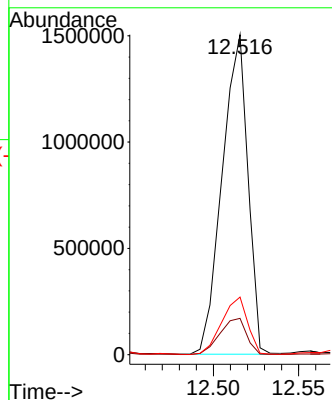
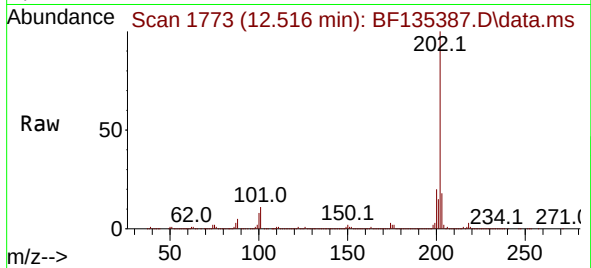




#75
Fluoranthene
Concen: 100.425 ng
RT: 12.516 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

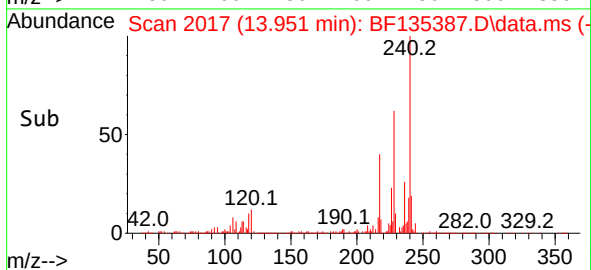
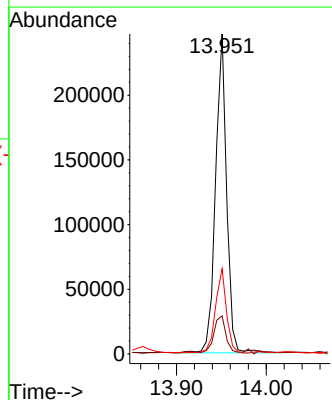
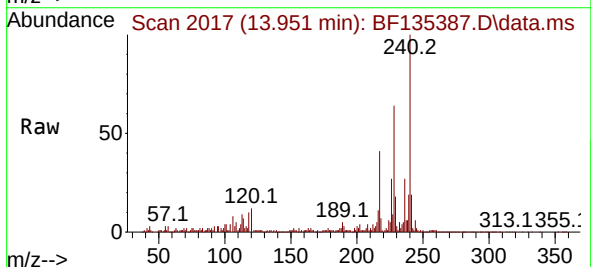
Instrument :
BNA_F
ClientSampleId :
72-11986

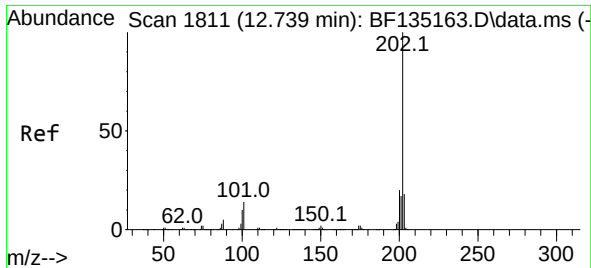
Tgt Ion:202 Resp: 1578944
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.3
203 18.0 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:240 Resp: 211511
Ion Ratio Lower Upper
240 100
120 11.9 9.4 14.2
236 26.6 19.8 29.8

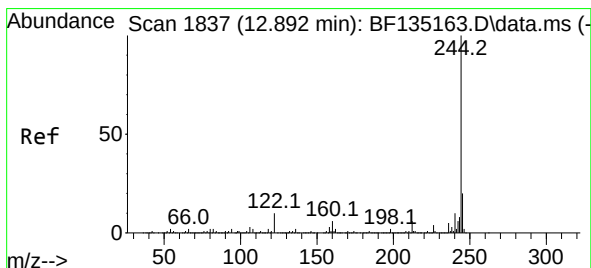
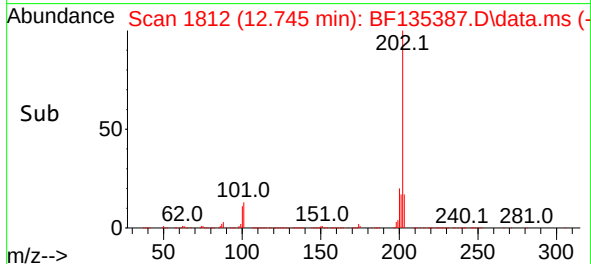
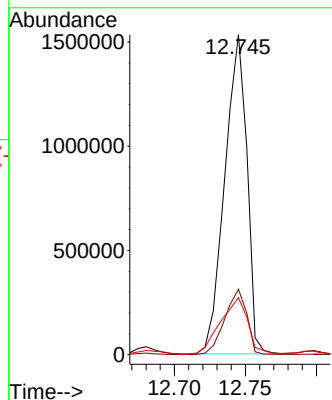
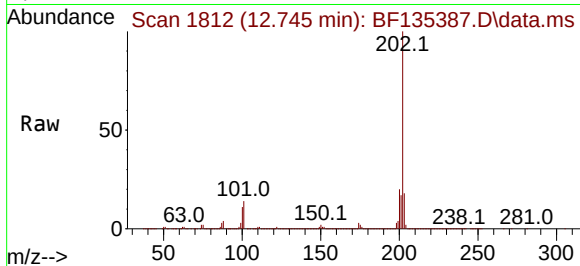




#78
Pyrene
Concen: 82.520 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

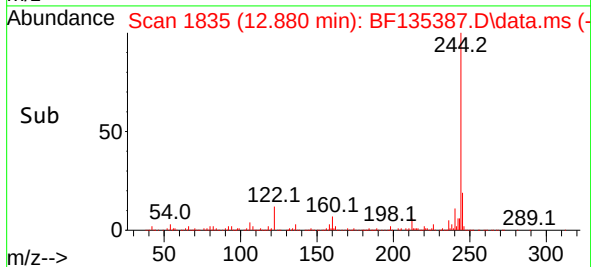
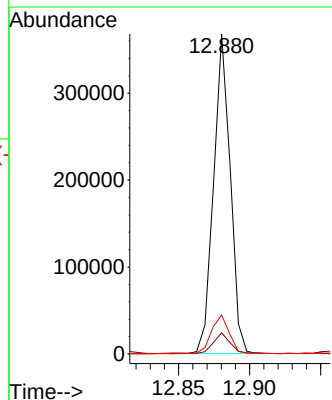
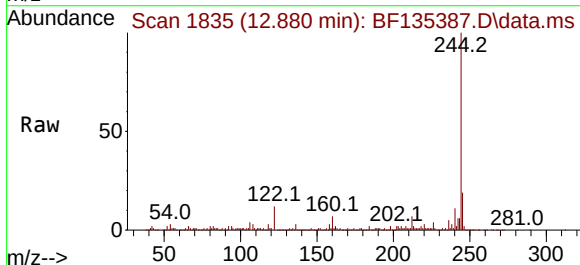
Instrument :
BNA_F
ClientSampleId :
72-11986

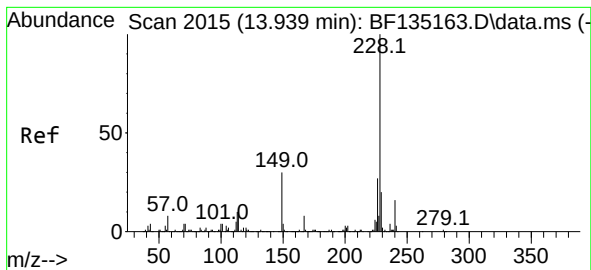
Tgt Ion:202 Resp: 1661753
Ion Ratio Lower Upper
202 100
200 20.4 16.2 24.2
203 17.8 14.2 21.4



#79
Terphenyl-d14
Concen: 21.958 ng
RT: 12.880 min Scan# 1835
Delta R.T. -0.012 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:244 Resp: 299605
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 12.2 7.9 11.9#





#81

Benzo(a)anthracene

Concen: 59.962 ng

RT: 13.980 min Scan# 20

Delta R.T. 0.041 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

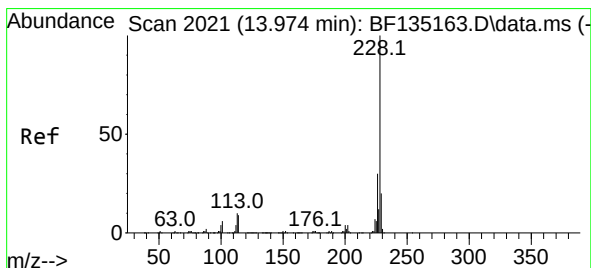
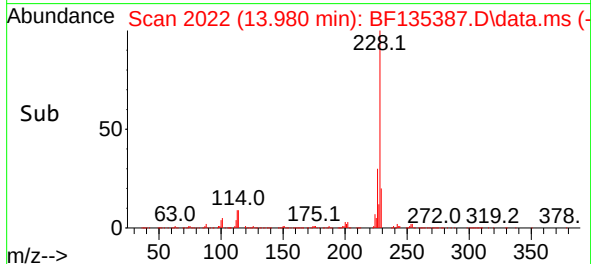
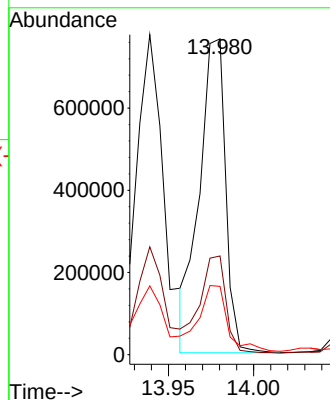
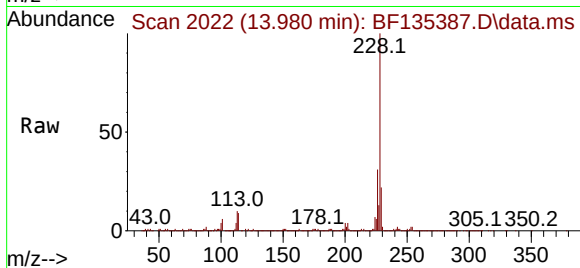
Tgt Ion:228 Resp: 818949

Ion Ratio Lower Upper

228 100

226 31.3 21.7 32.5

229 21.6 15.8 23.8



#83

Chrysene

Concen: 60.310 ng

RT: 13.980 min Scan# 2022

Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

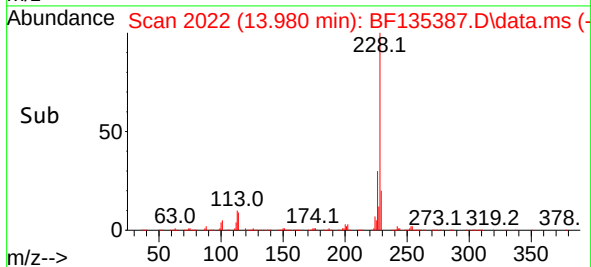
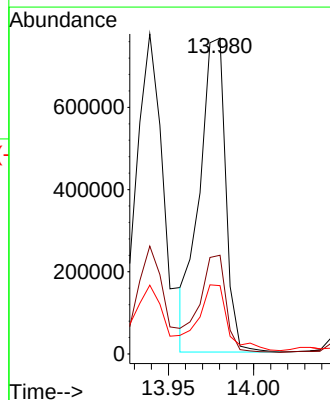
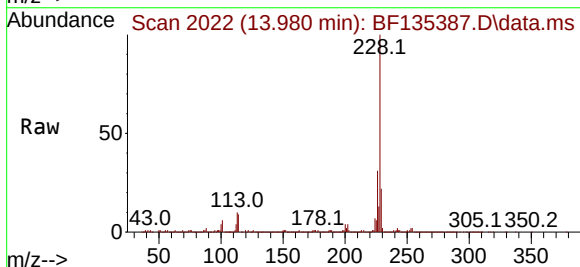
Tgt Ion:228 Resp: 818949

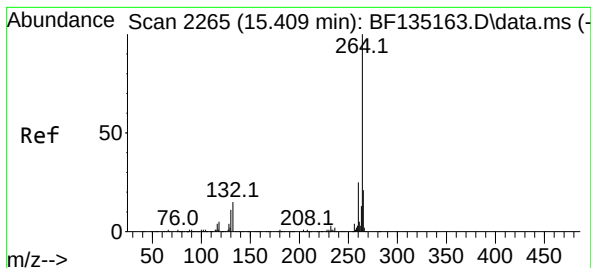
Ion Ratio Lower Upper

228 100

226 31.3 24.3 36.5

229 21.6 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

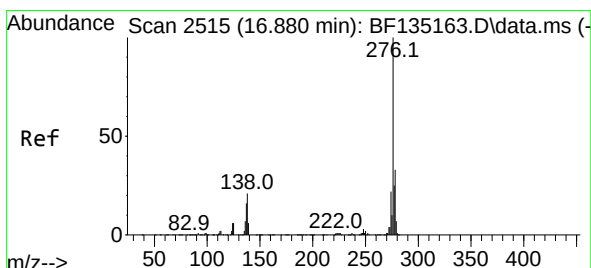
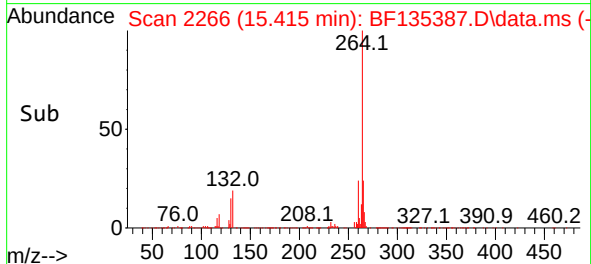
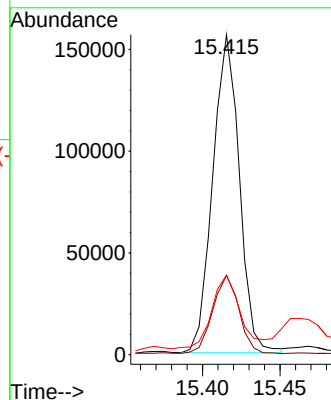
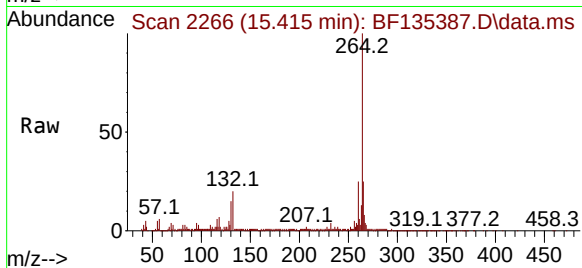
Tgt Ion:264 Resp: 186044

Ion Ratio Lower Upper

264 100

260 24.8 19.8 29.6

265 24.8 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 25.195 ng

RT: 16.898 min Scan# 2518

Delta R.T. 0.018 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

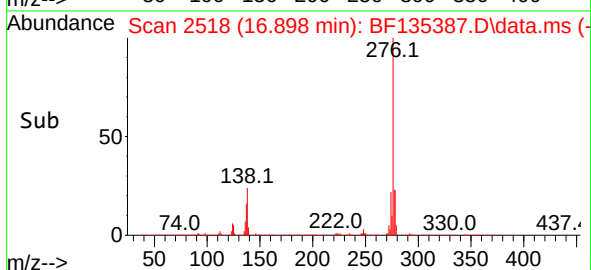
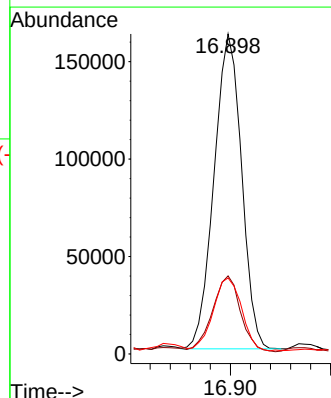
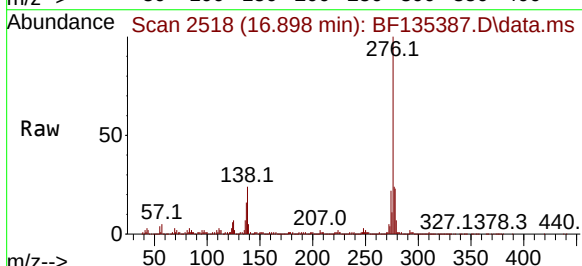
Tgt Ion:276 Resp: 307331

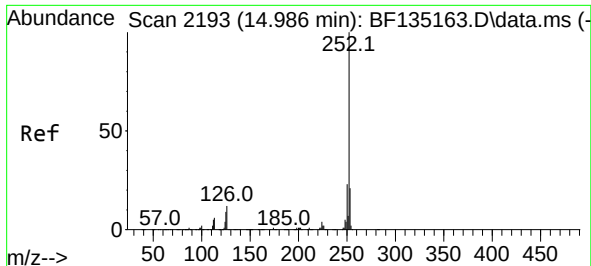
Ion Ratio Lower Upper

276 100

138 24.6 19.2 28.8

277 23.9 19.7 29.5

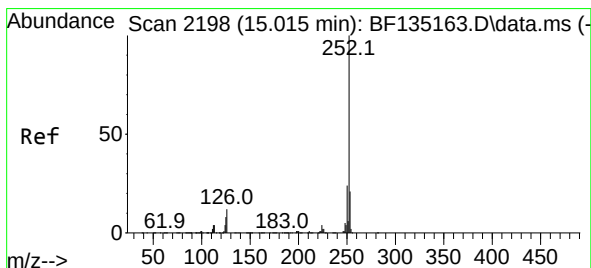
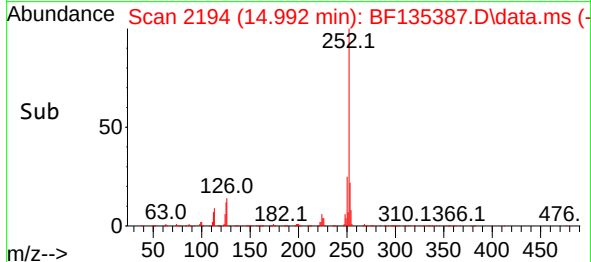
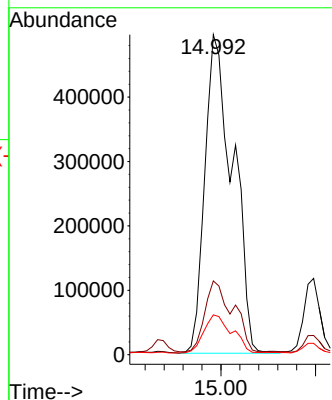
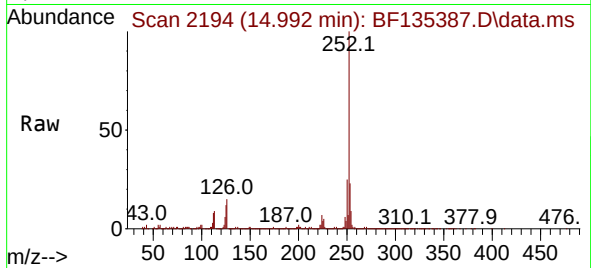




#88
Benzo(b)fluoranthene
Concen: 101.442 ng
RT: 14.992 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

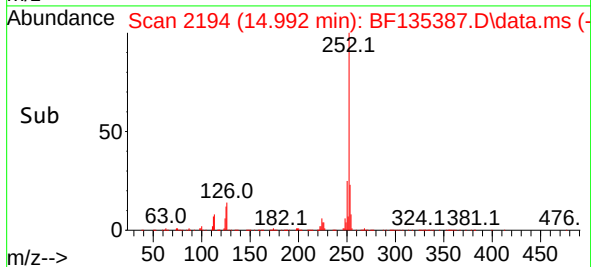
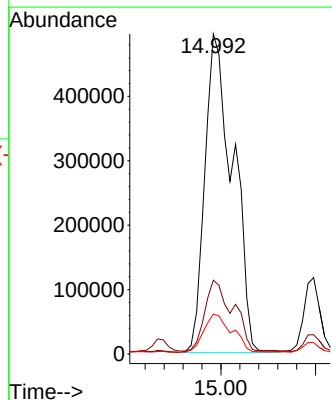
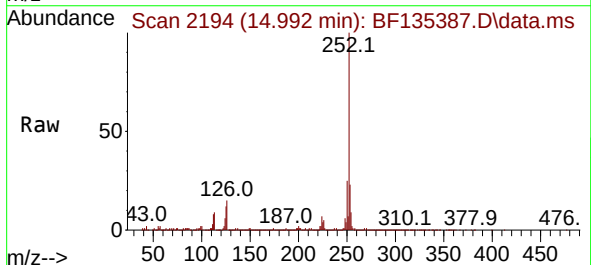
Instrument :
BNA_F
ClientSampleId :
72-11986

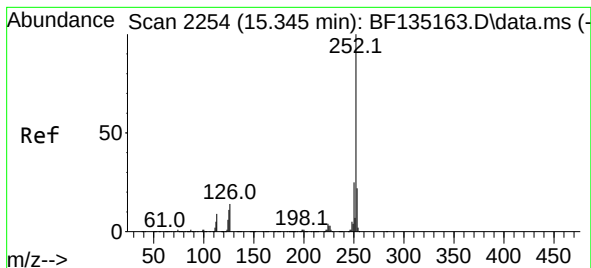
Tgt Ion:252 Resp: 1021645
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 12.5 7.1 10.7#



#89
Benzo(k)fluoranthene
Concen: 102.692 ng
RT: 14.992 min Scan# 2194
Delta R.T. -0.023 min
Lab File: BF135387.D
Acq: 21 Sep 2023 18:44

Tgt Ion:252 Resp: 1021645
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 12.5 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 54.732 ng

RT: 15.357 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

Instrument :

BNA_F

ClientSampleId :

72-11986

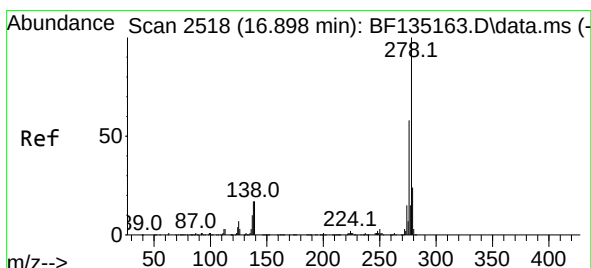
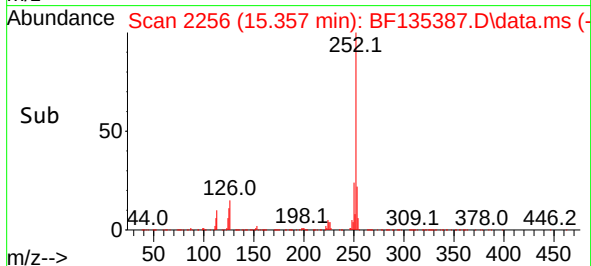
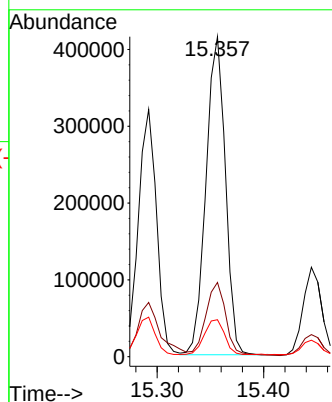
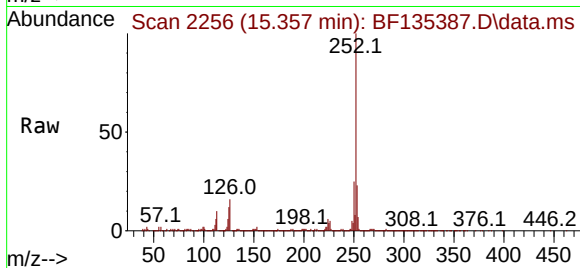
Tgt Ion:252 Resp: 525662

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 11.5 9.2 13.8



#91

Dibenzo(a,h)anthracene

Concen: 6.431 ng

RT: 17.074 min Scan# 2548

Delta R.T. 0.177 min

Lab File: BF135387.D

Acq: 21 Sep 2023 18:44

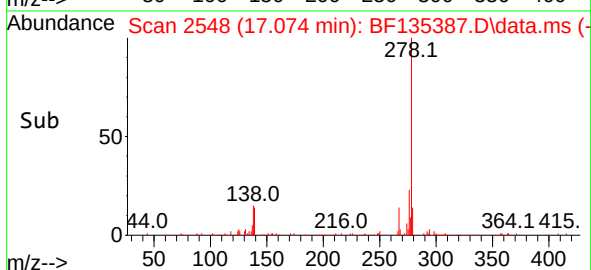
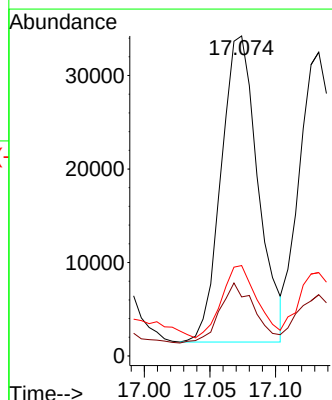
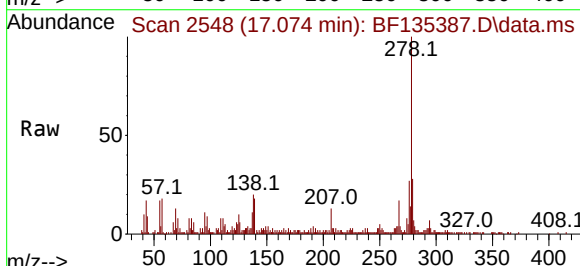
Tgt Ion:278 Resp: 64189

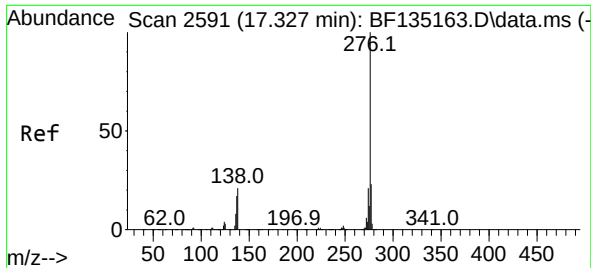
Ion Ratio Lower Upper

278 100

139 18.5 13.4 20.0

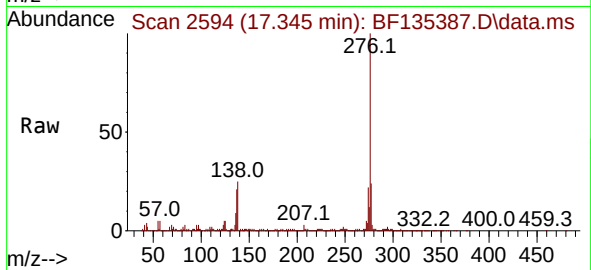
279 28.2 19.0 28.6





#92
 Benzo(g,h,i)perylene
 Concen: 29.139 ng
 RT: 17.345 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: BF135387.D
 Acq: 21 Sep 2023 18:44

Instrument :
 BNA_F
 ClientSampleId :
 72-11986



Tgt Ion:276 Resp: 303735
 Ion Ratio Lower Upper
 276 100
 277 24.4 18.8 28.2
 138 25.4 16.9 25.3#

