

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021325\
 Data File : BF141620.D
 Acq On : 13 Feb 2025 17:42
 Operator : RC/JU
 Sample : Q1353-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 346

Quant Time: Feb 14 00:34:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

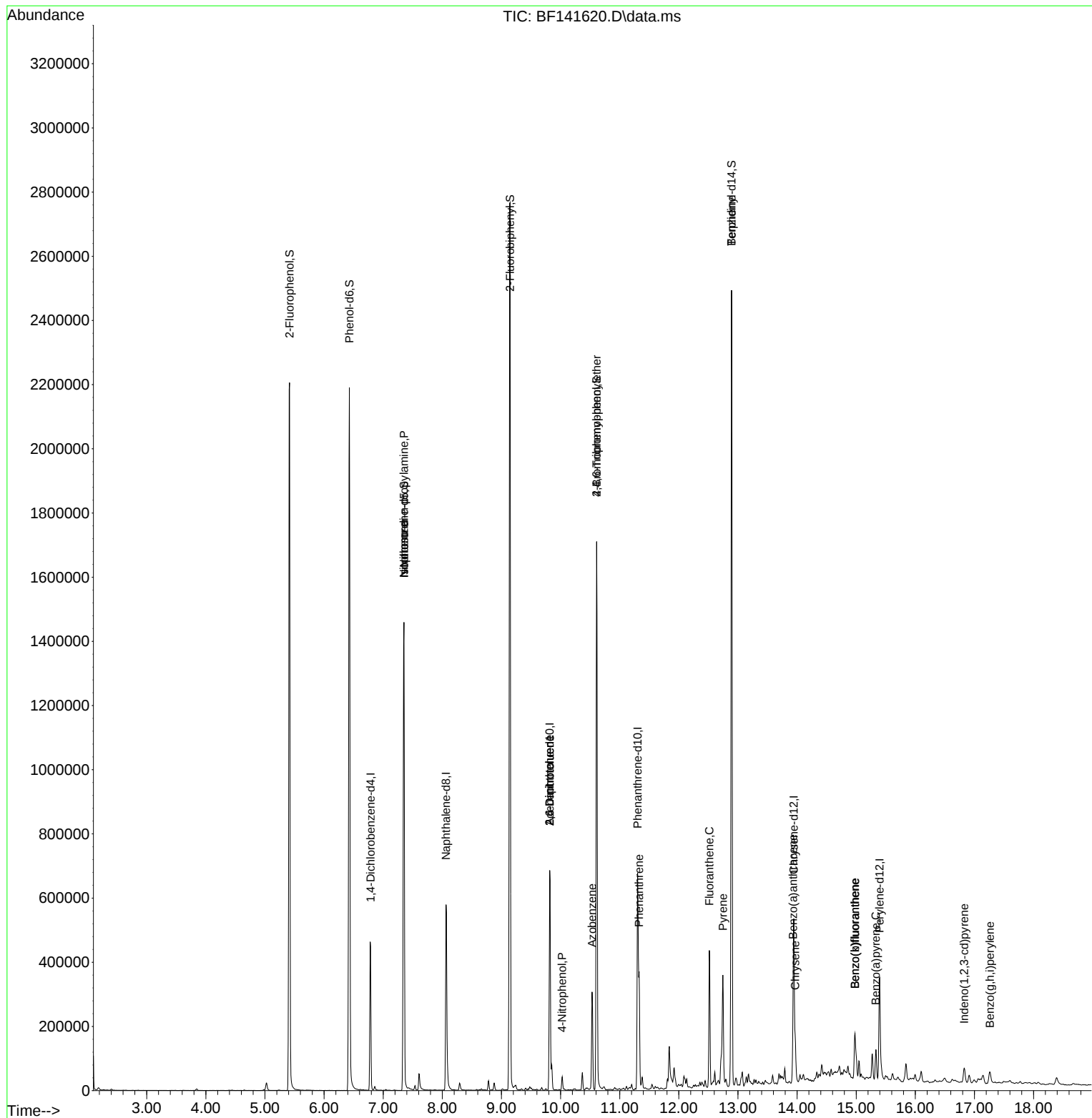
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	98392	20.000	ng	0.00
21) Naphthalene-d8	8.063	136	397060	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	214173	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	348327	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	203653	20.000	ng	-0.02
86) Perylene-d12	15.398	264	192301	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	853748	136.033	ng	0.00
7) Phenol-d6	6.428	99	1067130	134.528	ng	-0.01
23) Nitrobenzene-d5	7.351	82	709854	93.247	ng	-0.01
42) 2,4,6-Tribromophenol	10.610	330	281171	130.688	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1317849	94.799	ng	0.00
79) Terphenyl-d14	12.892	244	1228229	101.814	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.351	70	95511	20.129	ng	# 73
25) Isophorone	7.351	82	702029	57.837	ng	# 66
51) 2,6-Dinitrotoluene	9.816	165	29171	9.178	ng	# 23
56) 4-Nitrophenol	10.028	139	9997	3.937	ng	# 2
57) 2,4-Dinitrotoluene	9.816	165	29172	6.894	ng	# 19
63) Azobenzene	10.533	77	74815	5.261	ng	# 1
67) 4-Bromophenyl-phenylether	10.610	248	19364	4.974	ng	# 1
71) Phenanthrene	11.327	178	185322	9.665	ng	99
75) Fluoranthene	12.516	202	246473	12.125	ng	99
77) Benzidine	12.892	184	15985	3.559	ng	# 90
78) Pyrene	12.745	202	198244	11.435	ng	99
81) Benzo(a)anthracene	13.933	228	73481	5.428	ng	97
83) Chrysene	13.969	228	73626	5.890	ng	98
87) Indeno(1,2,3-cd)pyrene	16.827	276	33057	2.782	ng	94
88) Benzo(b)fluoranthene	14.980	252	120966	9.368	ng	99
89) Benzo(k)fluoranthene	14.980	252	120966	10.971	ng	99
90) Benzo(a)pyrene	15.333	252	54537	5.220	ng	98
92) Benzo(g,h,i)perylene	17.262	276	33137	3.289	ng	99

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

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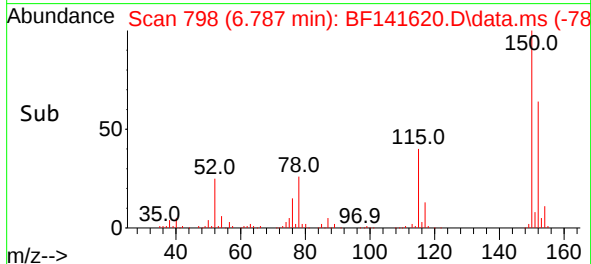
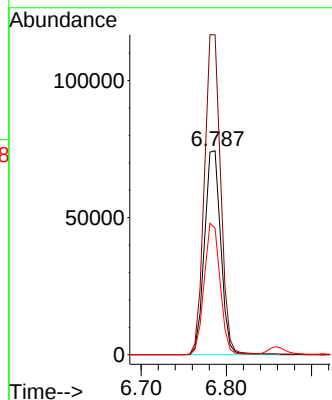
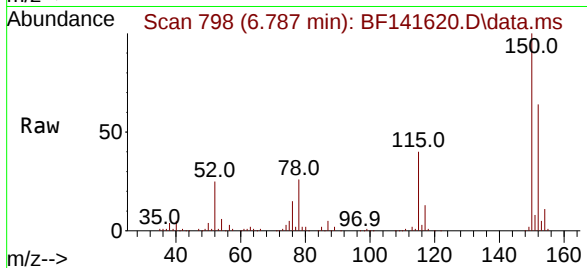




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

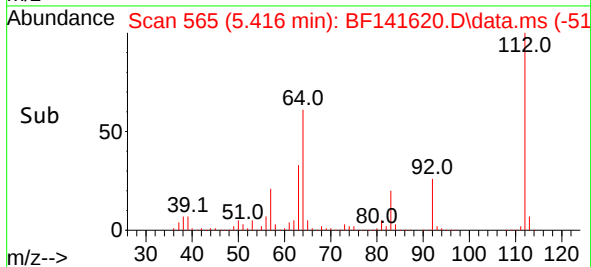
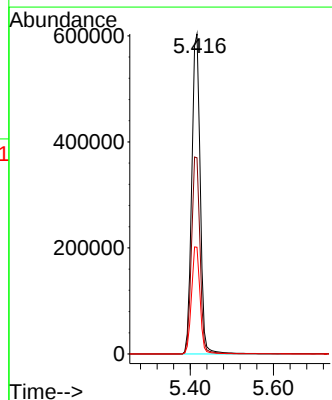
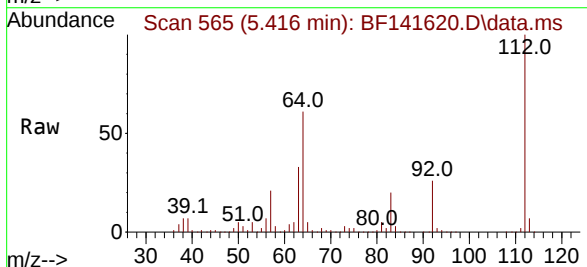
Instrument :
BNA_F
ClientSampleId :
346

Tgt Ion:152 Resp: 98392
Ion Ratio Lower Upper
152 100
150 156.9 125.0 187.4
115 62.0 53.6 80.4



#5
2-Fluorophenol
Concen: 136.033 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion:112 Resp: 853748
Ion Ratio Lower Upper
112 100
64 61.3 51.1 76.7
63 33.3 28.4 42.6





#7
Phenol-d6
Concen: 134.528 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

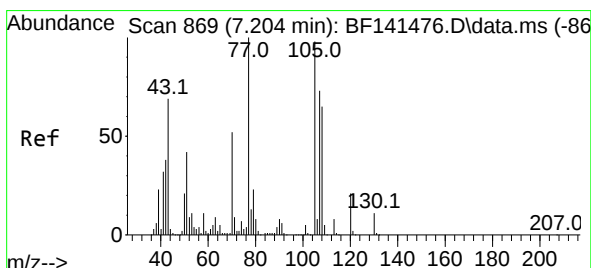
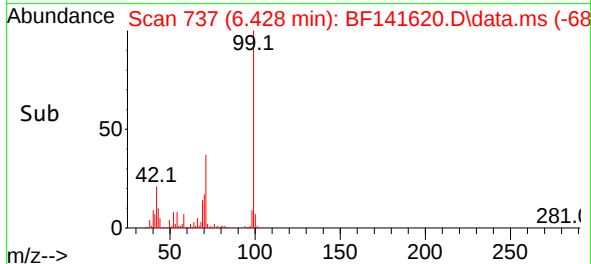
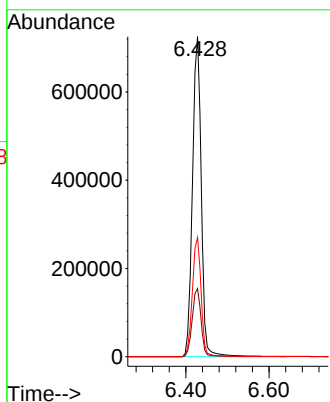
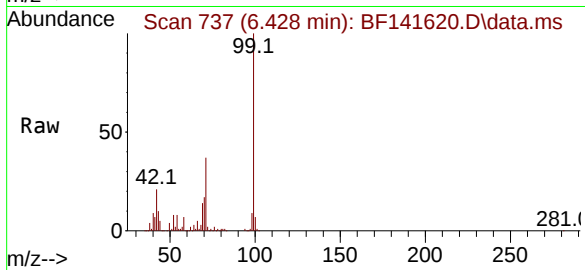
Instrument :

BNA_F

ClientSampleId :

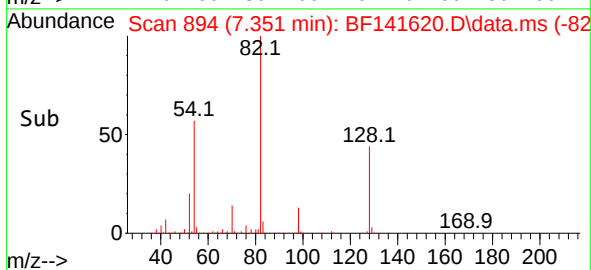
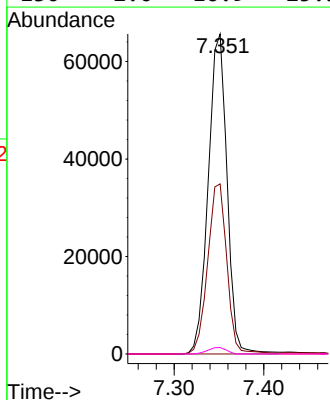
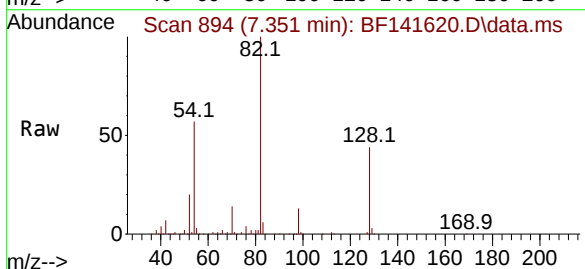
346

Tgt Ion: 99 Resp: 1067130
Ion Ratio Lower Upper
99 100
42 21.3 19.1 28.7
71 37.3 31.1 46.7



#19
n-Nitroso-di-n-propylamine
Concen: 20.129 ng
RT: 7.351 min Scan# 894
Delta R.T. 0.135 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion: 70 Resp: 95511
Ion Ratio Lower Upper
70 100
42 53.2 57.4 86.2#
101 0.0 8.0 12.0#
130 2.0 16.9 25.3#

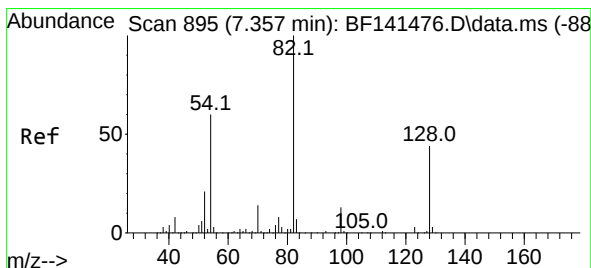
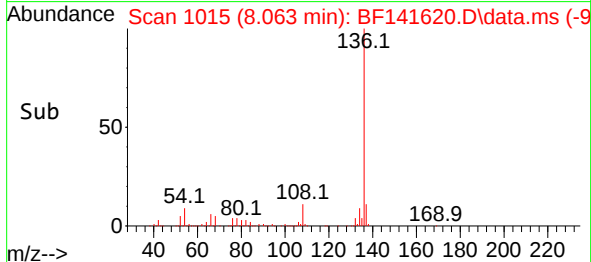
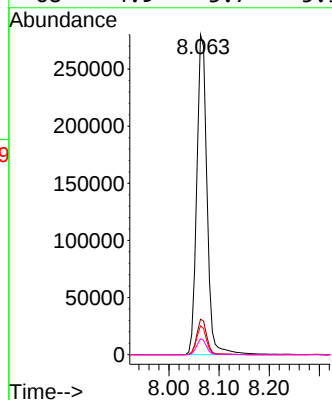
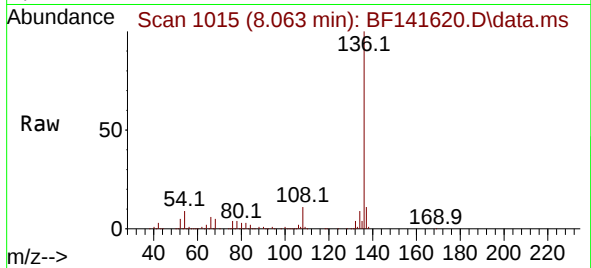




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

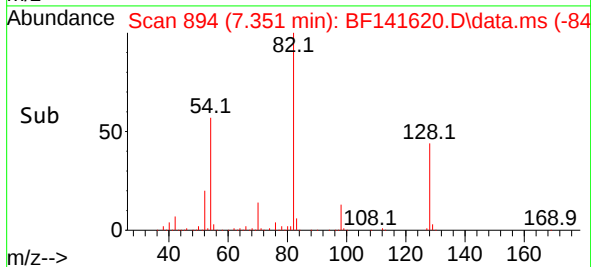
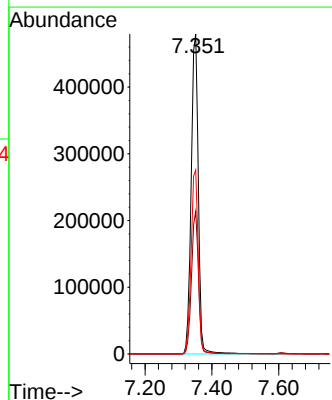
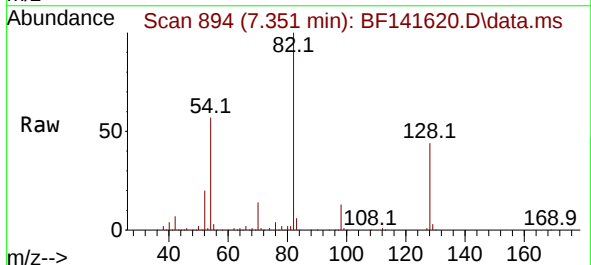
Instrument :
BNA_F
ClientSampleId :
346

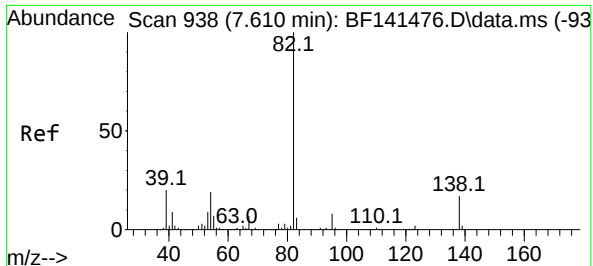
Tgt Ion:136	Resp: 397060
Ion Ratio	Lower Upper
136 100	
137 11.1	8.6 13.0
54 9.0	7.2 10.8
68 4.9	3.7 5.5



#23
Nitrobenzene-d5
Concen: 93.247 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.012 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion: 82	Resp: 709854
Ion Ratio	Lower Upper
82 100	
128 44.5	34.8 52.2
54 57.5	48.2 72.4

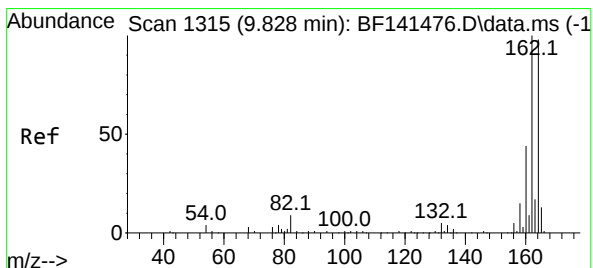
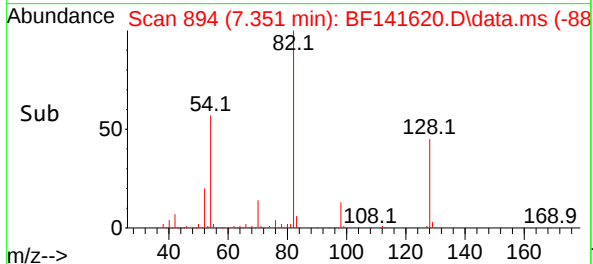
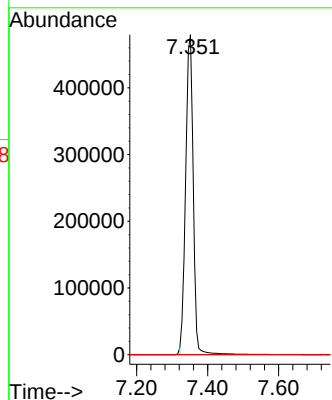
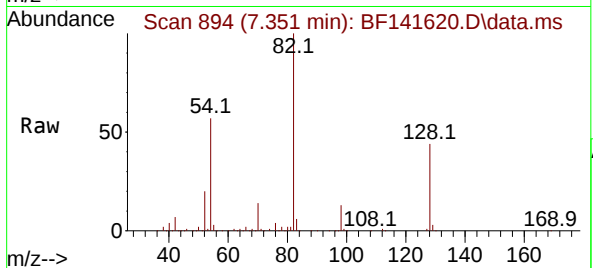




#25
Isophorone
Concen: 57.837 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.270 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

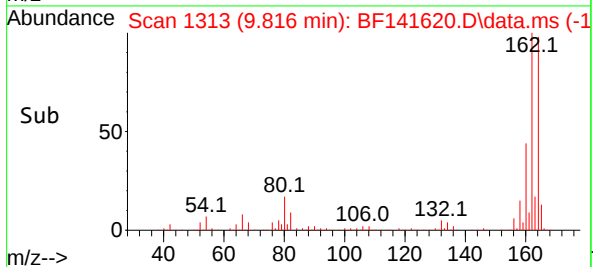
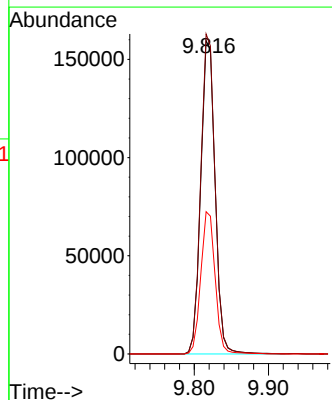
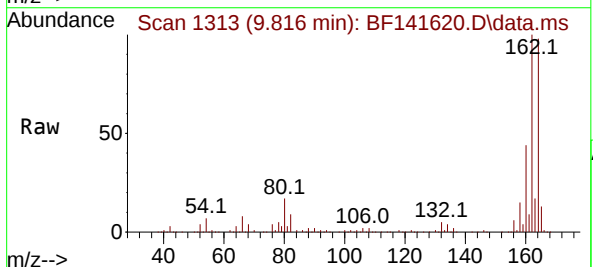
Instrument :
BNA_F
ClientSampleId :
346

Tgt Ion: 82 Resp: 702029
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 13.9 20.9#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion:164 Resp: 214173
Ion Ratio Lower Upper
164 100
162 102.2 81.3 121.9
160 45.4 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 130.688 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.017 min

Lab File: BF141620.D

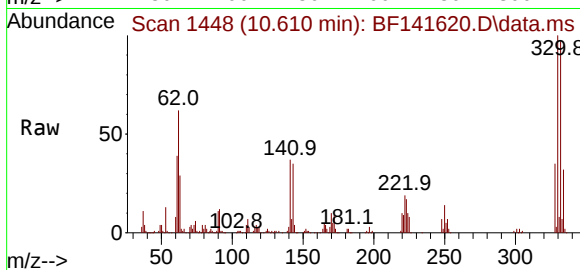
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Instrument :

BNA_F

ClientSampleId :

346



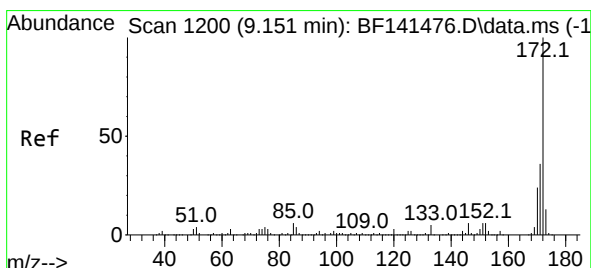
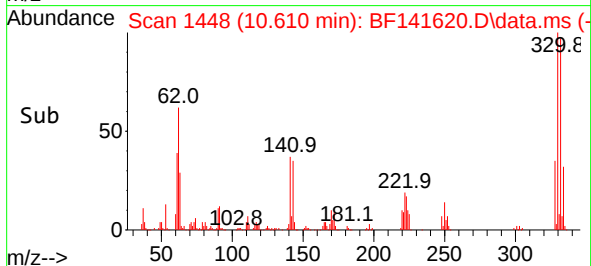
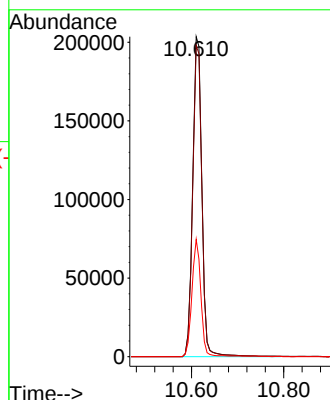
Tgt Ion:330 Resp: 281171

Ion Ratio Lower Upper

330 100

332 97.2 78.5 117.7

141 35.8 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 94.799 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

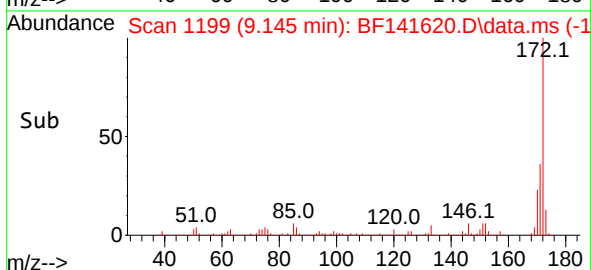
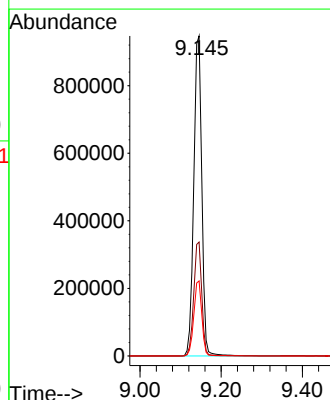
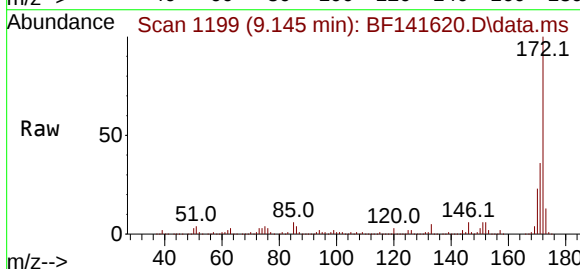
Tgt Ion:172 Resp: 1317849

Ion Ratio Lower Upper

172 100

171 35.6 28.7 43.1

170 23.4 18.9 28.3

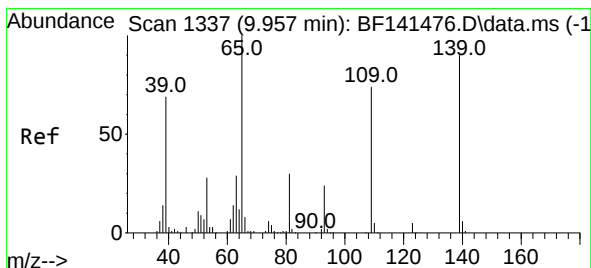
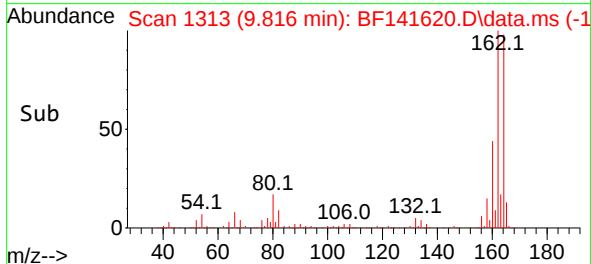
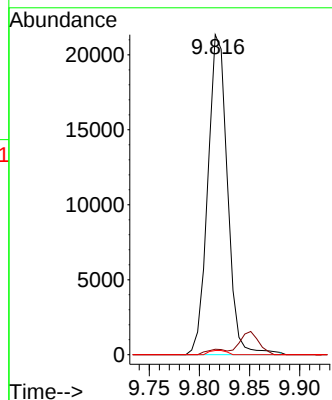
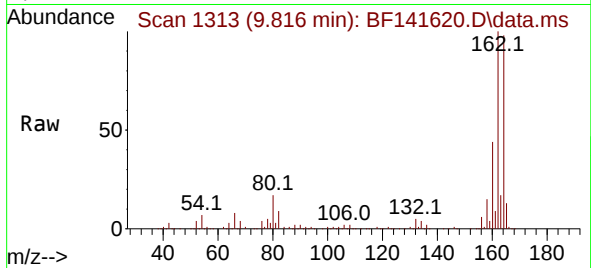




#51
2,6-Dinitrotoluene
Concen: 9.178 ng
RT: 9.816 min Scan# 11
Delta R.T. 0.194 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

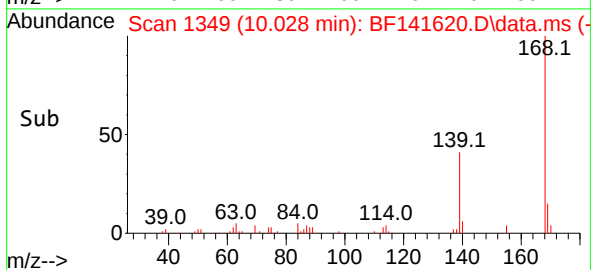
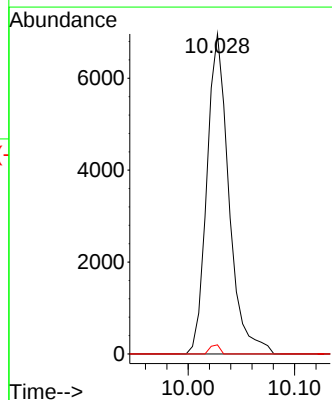
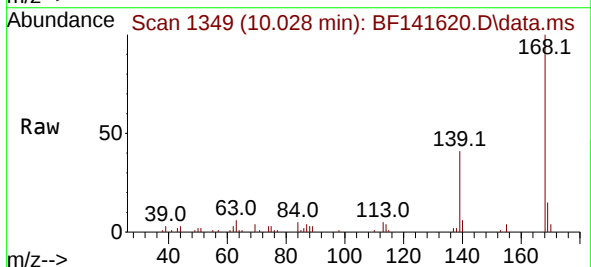
Instrument :
BNA_F
ClientSampleId :
346

Tgt Ion:165 Resp: 29171
Ion Ratio Lower Upper
165 100
63 1.7 49.4 74.0#
89 1.3 46.5 69.7#



#56
4-Nitrophenol
Concen: 3.937 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.059 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

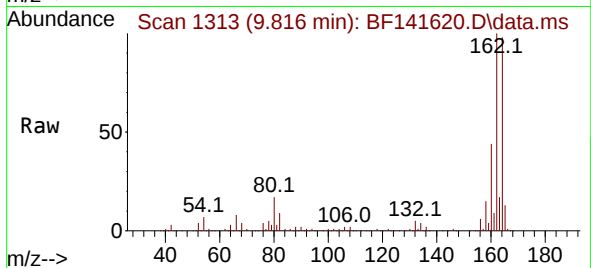
Tgt Ion:139 Resp: 9997
Ion Ratio Lower Upper
139 100
109 0.0 62.0 102.0#
65 2.8 91.2 131.2#



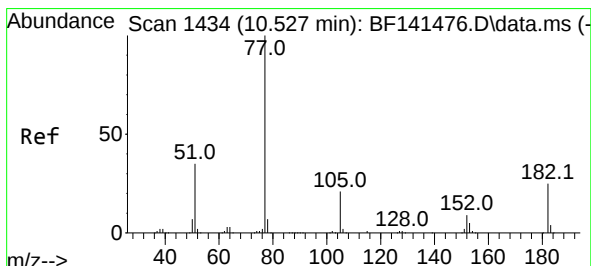
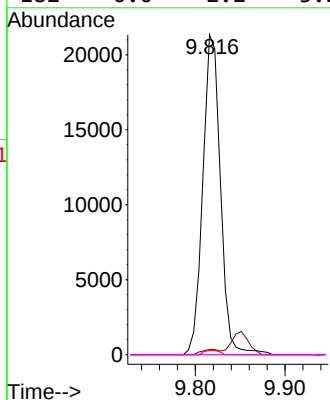
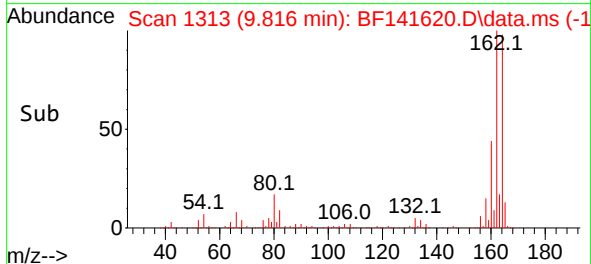


#57
2,4-Dinitrotoluene
Concen: 6.894 ng
RT: 9.816 min Scan# 11
Delta R.T. -0.212 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

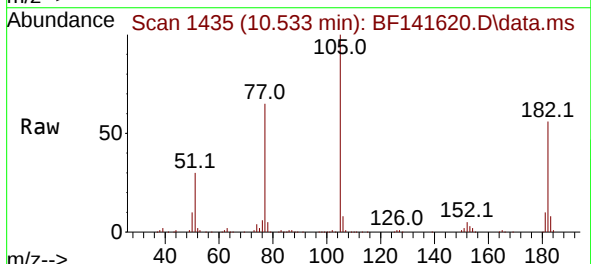
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BNA_F
ClientSampleId :
346



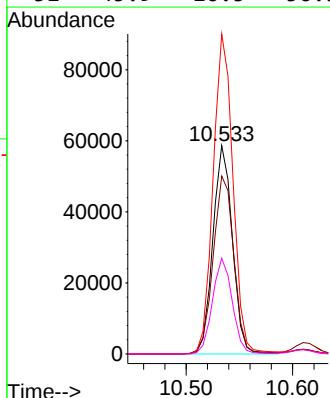
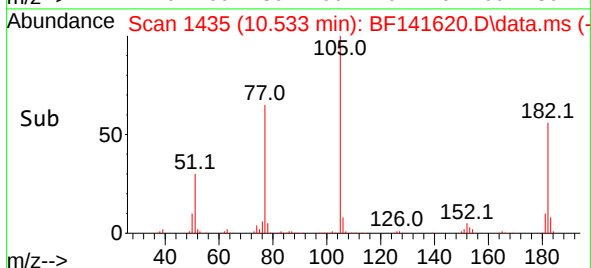
Tgt Ion:165 Resp: 29172
Ion Ratio Lower Upper
165 100
63 1.7 46.4 69.6#
89 1.3 61.8 92.6#
182 0.0 2.2 3.2#

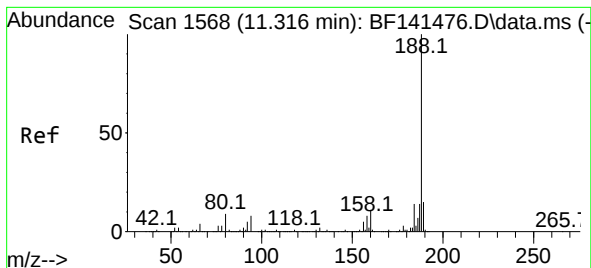


#63
Azobenzene
Concen: 5.261 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42



Tgt Ion: 77 Resp: 74815
Ion Ratio Lower Upper
77 100
182 85.4 4.7 44.7#
105 153.6 0.4 40.4#
51 45.9 16.5 56.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.304 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Instrument :

BNA_F

ClientSampleId :

346

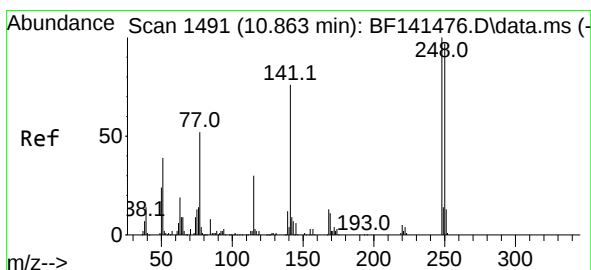
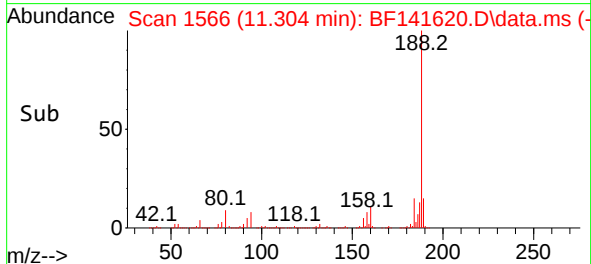
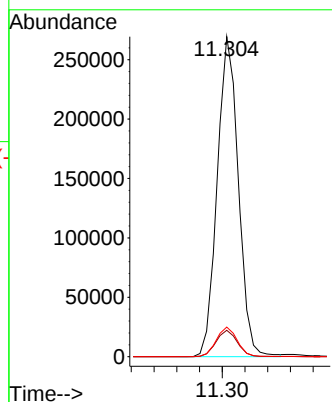
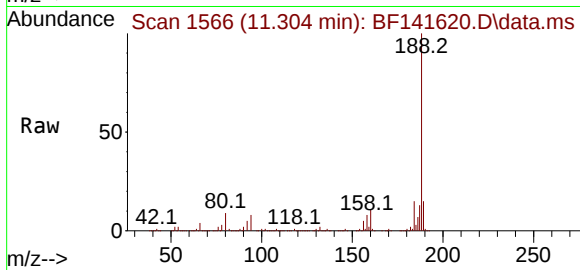
Tgt Ion:188 Resp: 348327

Ion Ratio Lower Upper

188 100

94 8.2 6.6 10.0

80 9.3 7.3 10.9



#67

4-Bromophenyl-phenylether

Concen: 4.974 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.253 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

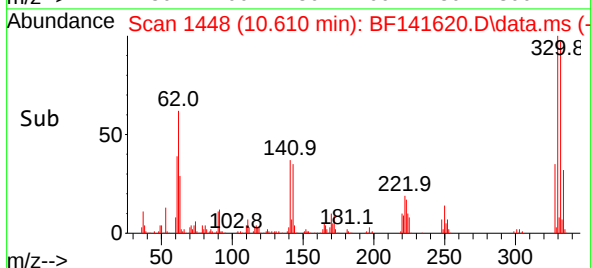
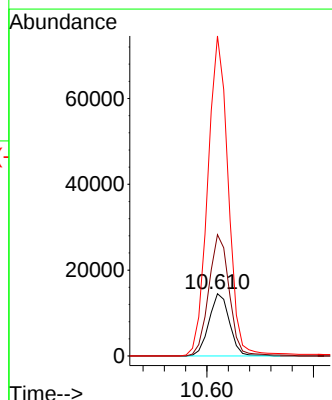
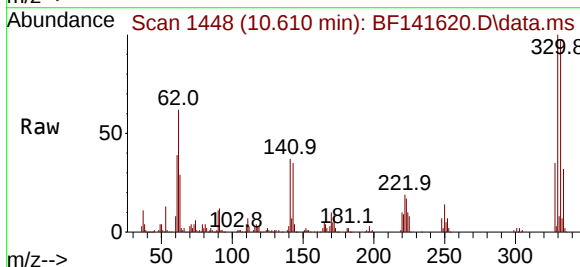
Tgt Ion:248 Resp: 19364

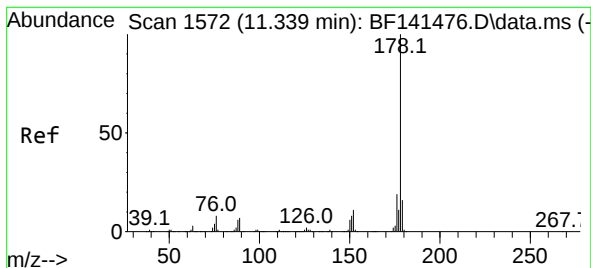
Ion Ratio Lower Upper

248 100

250 194.7 77.8 116.6#

141 513.5 60.6 90.8#





#71

Phenanthrene

Concen: 9.665 ng

RT: 11.327 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Instrument :

BNA_F

ClientSampleId :

346

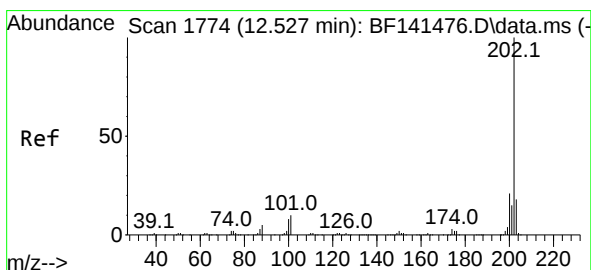
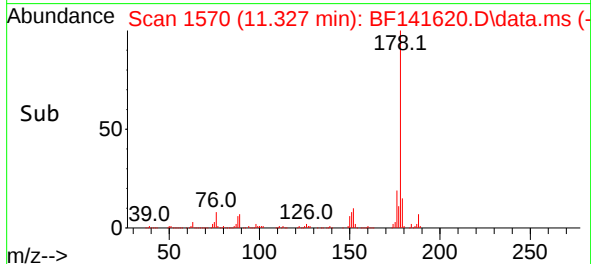
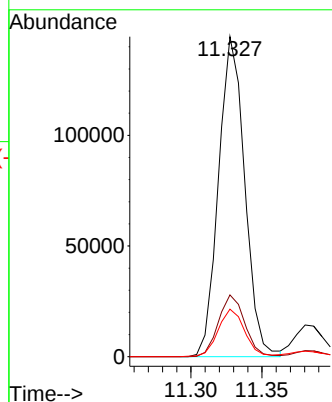
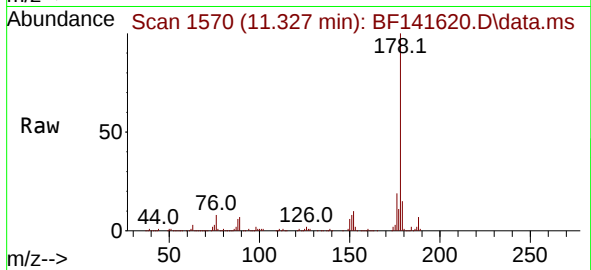
Tgt Ion:178 Resp: 185322

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

179 14.9 12.4 18.6



#75

Fluoranthene

Concen: 12.125 ng

RT: 12.516 min Scan# 1772

Delta R.T. -0.017 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

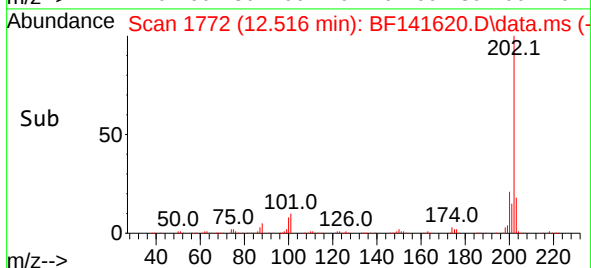
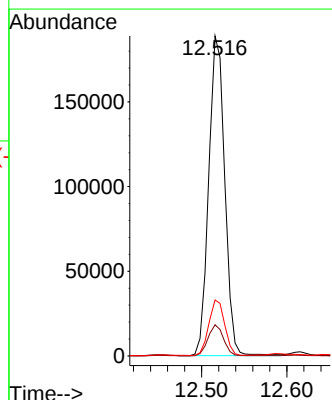
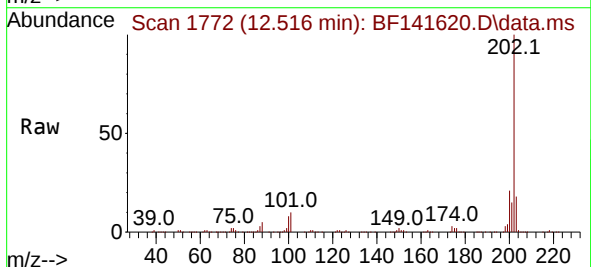
Tgt Ion:202 Resp: 246473

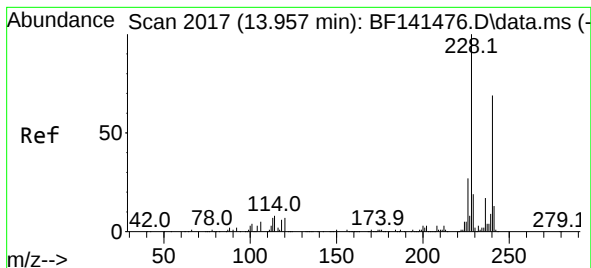
Ion Ratio Lower Upper

202 100

101 9.8 0.0 30.2

203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 20

Delta R.T. -0.018 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Instrument :

BNA_F

ClientSampleId :

346

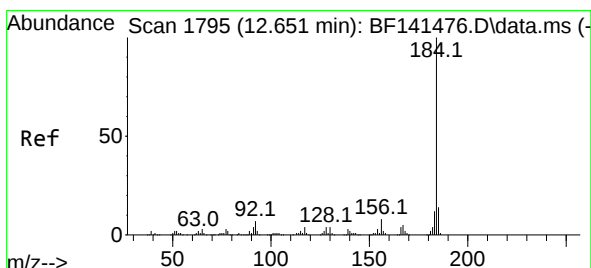
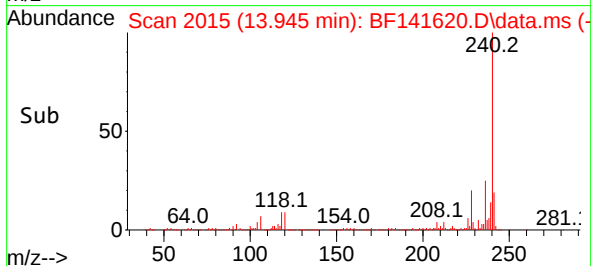
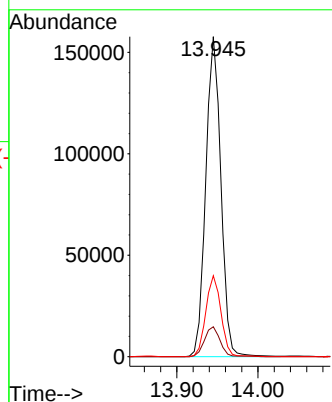
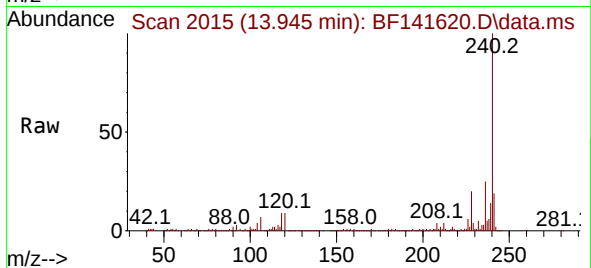
Tgt Ion:240 Resp: 203653

Ion Ratio Lower Upper

240 100

120 9.3 8.0 12.0

236 25.3 19.8 29.8



#77

Benzidine

Concen: 3.559 ng

RT: 12.892 min Scan# 1836

Delta R.T. 0.235 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

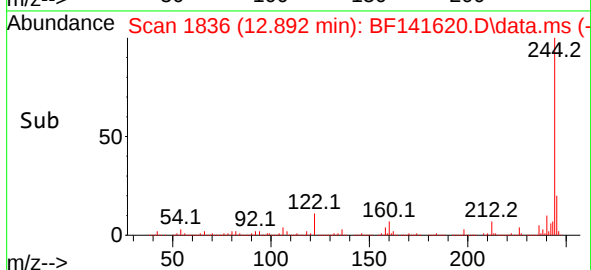
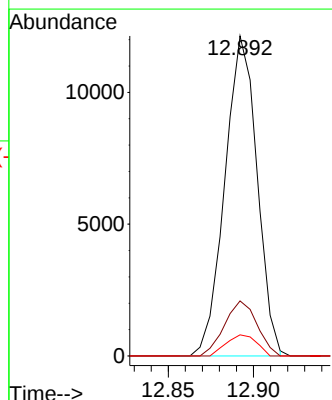
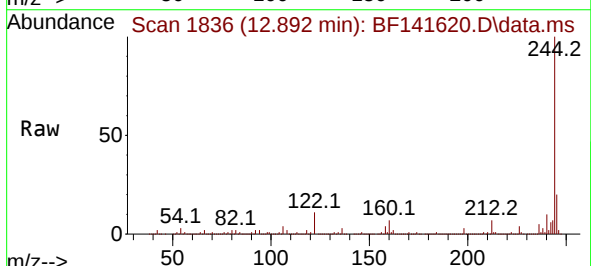
Tgt Ion:184 Resp: 15985

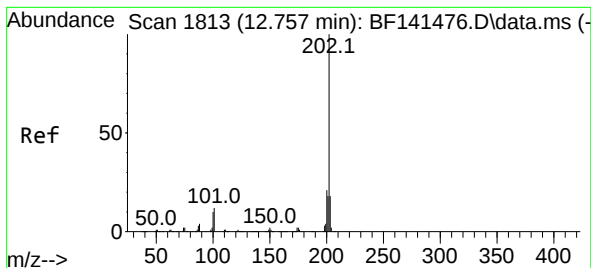
Ion Ratio Lower Upper

184 100

185 17.2 11.3 16.9#

183 6.6 9.3 13.9#





#78

Pyrene

Concen: 11.435 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.017 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Instrument :

BNA_F

ClientSampleId :

346

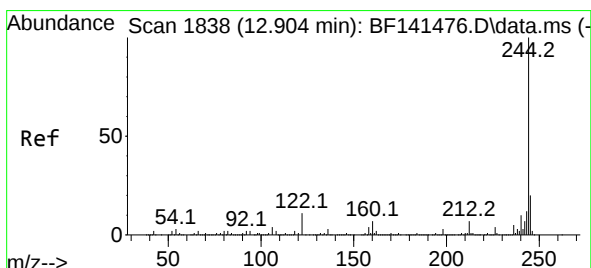
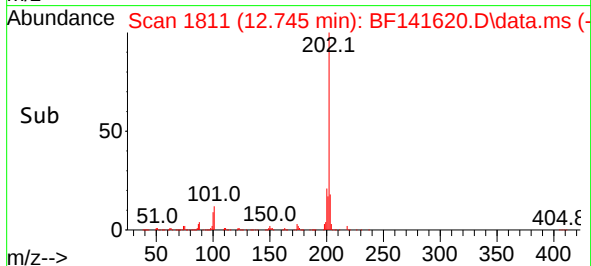
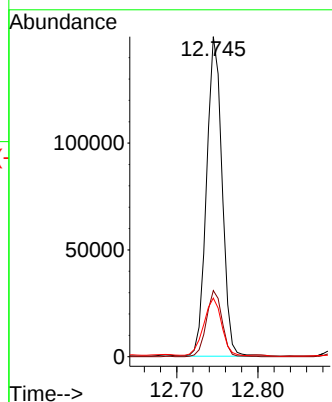
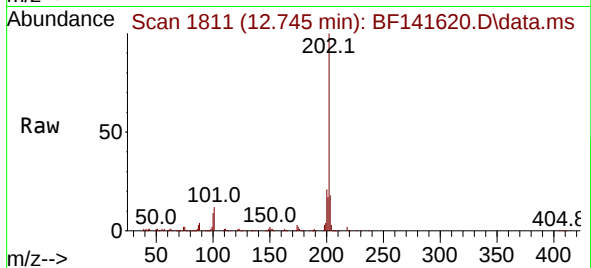
Tgt Ion:202 Resp: 198244

Ion Ratio Lower Upper

202 100

200 20.6 17.0 25.4

203 18.3 14.3 21.5



#79

Terphenyl-d14

Concen: 101.814 ng

RT: 12.892 min Scan# 1836

Delta R.T. -0.012 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

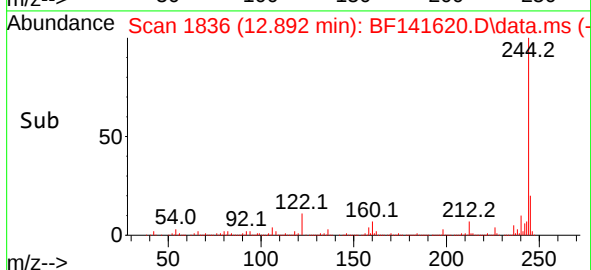
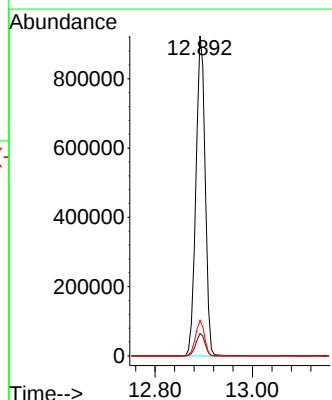
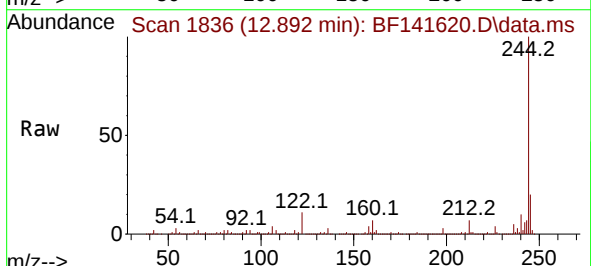
Tgt Ion:244 Resp: 1228229

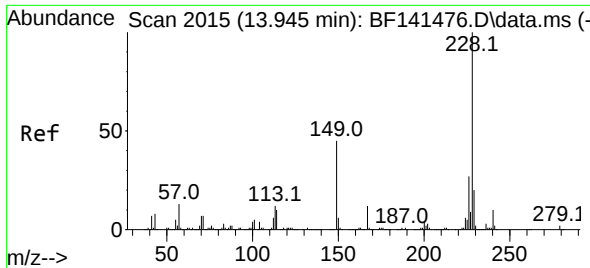
Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 11.1 8.4 12.6

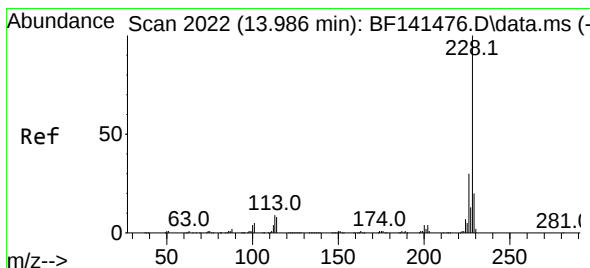
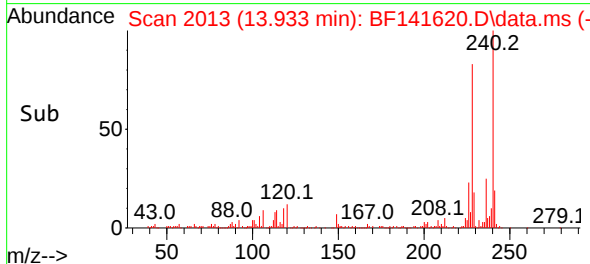
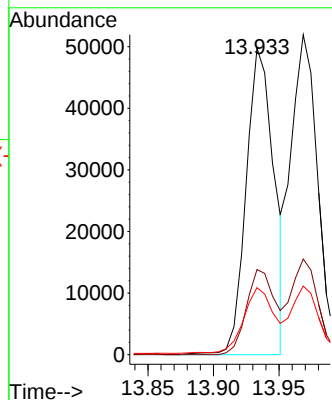
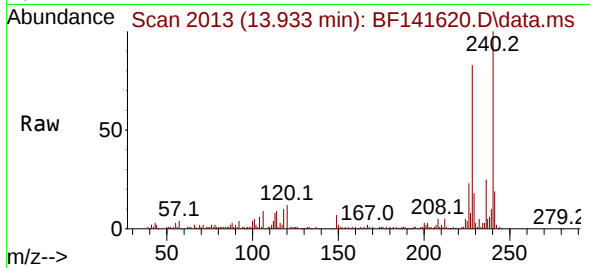




#81
Benzo(a)anthracene
Concen: 5.428 ng
RT: 13.933 min Scan# 2019
Delta R.T. -0.018 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

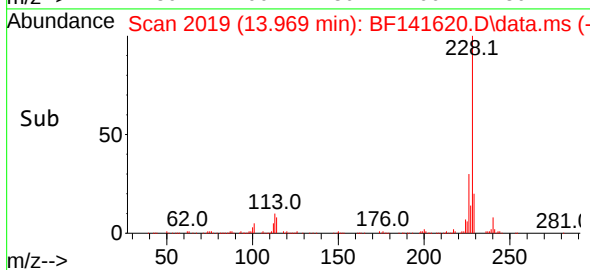
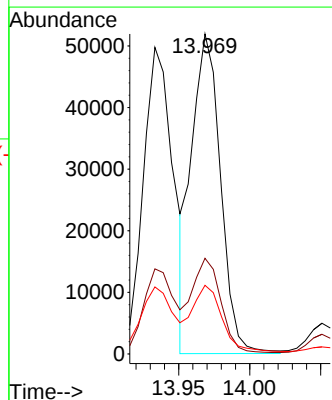
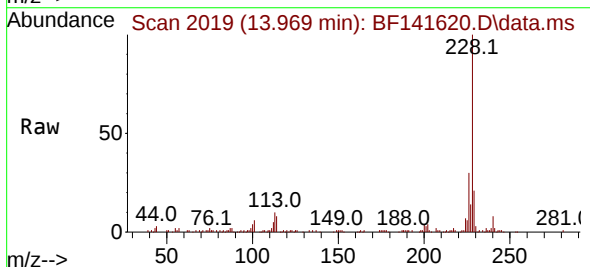
Instrument :
BNA_F
ClientSampleId :
346

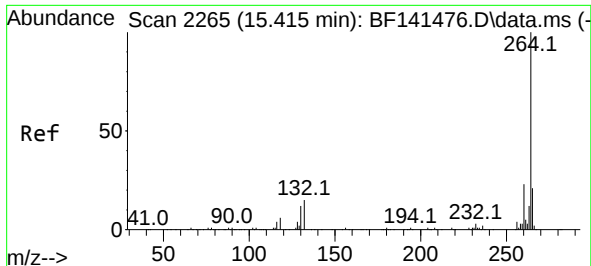
Tgt Ion:228 Resp: 73481
Ion Ratio Lower Upper
228 100
226 27.8 21.8 32.8
229 21.9 15.8 23.6



#83
Chrysene
Concen: 5.890 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.023 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

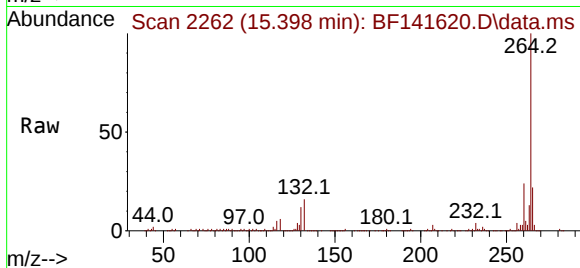
Tgt Ion:228 Resp: 73626
Ion Ratio Lower Upper
228 100
226 29.9 24.0 36.0
229 21.4 15.7 23.5



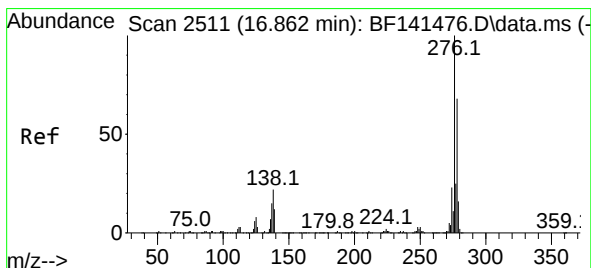
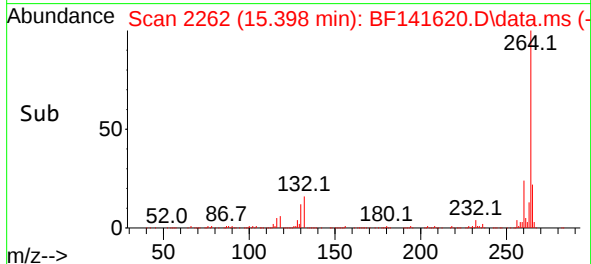
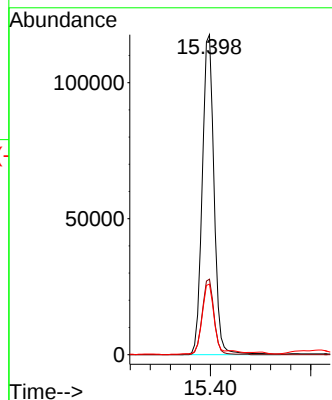


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 21
Delta R.T. -0.017 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Instrument :
BNA_F
ClientSampleId :
346

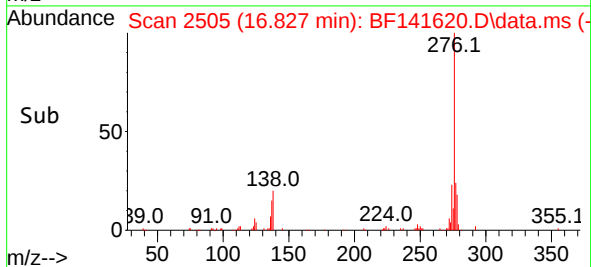
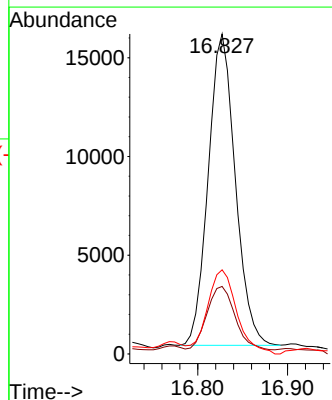
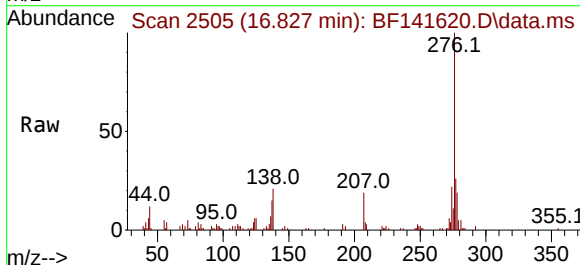


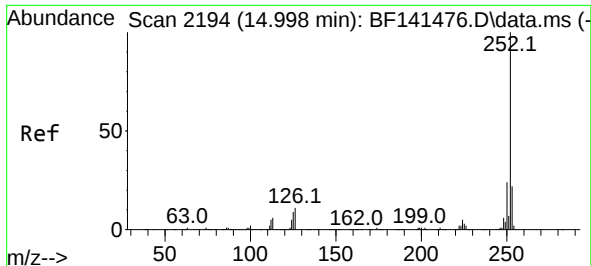
Tgt Ion:264 Resp: 192301
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 22.1 17.0 25.4



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.782 ng
RT: 16.827 min Scan# 2505
Delta R.T. -0.047 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion:276 Resp: 33057
Ion Ratio Lower Upper
276 100
138 24.8 18.0 27.0
277 29.5 20.4 30.6

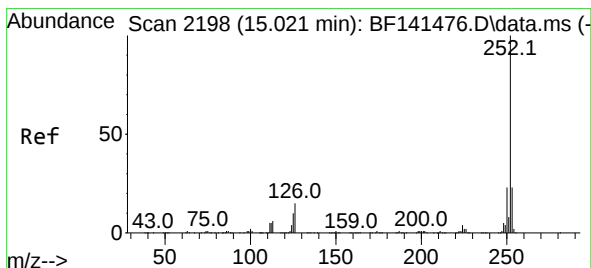
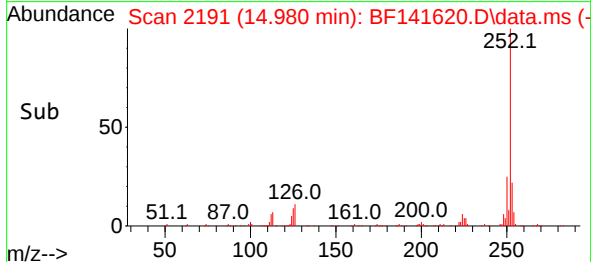
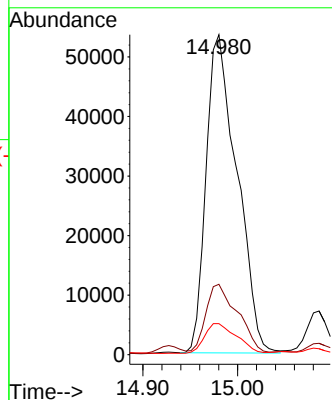
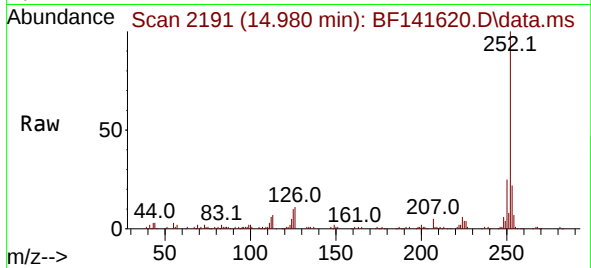




#88
Benzo(b)fluoranthene
Concen: 9.368 ng
RT: 14.980 min Scan# 2191
Delta R.T. -0.023 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

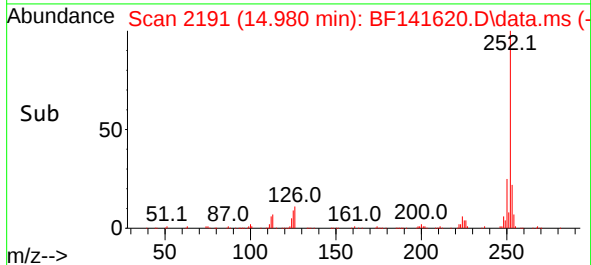
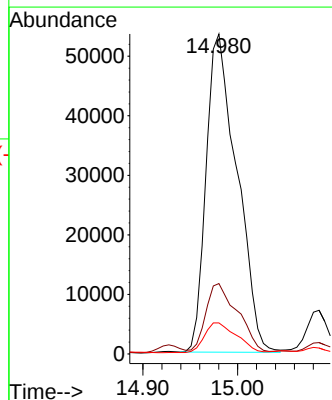
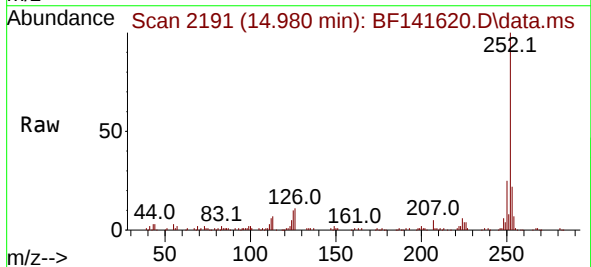
Instrument :
BNA_F
ClientSampleId :
346

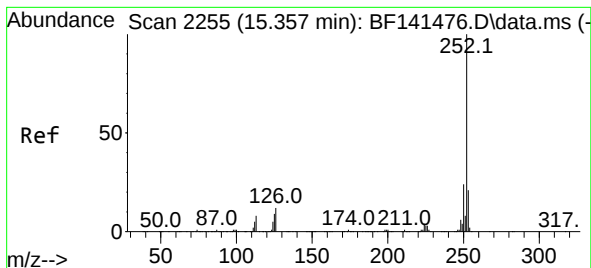
Tgt Ion:252 Resp: 120966
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 9.7 7.0 10.6



#89
Benzo(k)fluoranthene
Concen: 10.971 ng
RT: 14.980 min Scan# 2191
Delta R.T. -0.053 min
Lab File: BF141620.D
Acq: 13 Feb 2025 17:42

Tgt Ion:252 Resp: 120966
Ion Ratio Lower Upper
252 100
253 22.0 18.0 27.0
125 9.7 7.4 11.0





#90

Benzo(a)pyrene

Concen: 5.220 ng

RT: 15.333 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Instrument :

BNA_F

ClientSampleId :

346

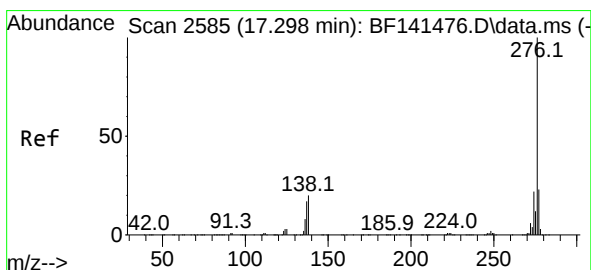
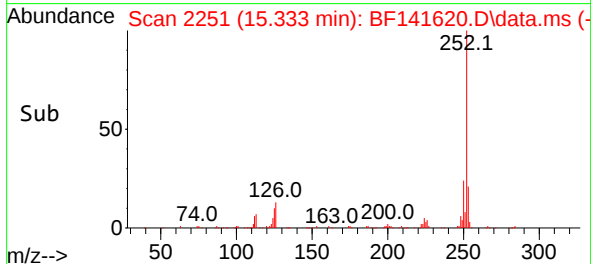
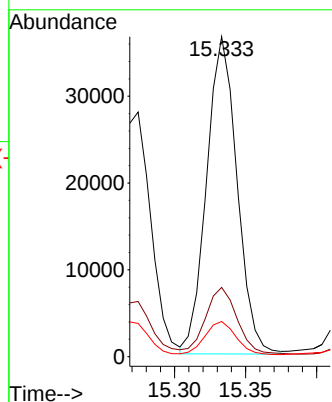
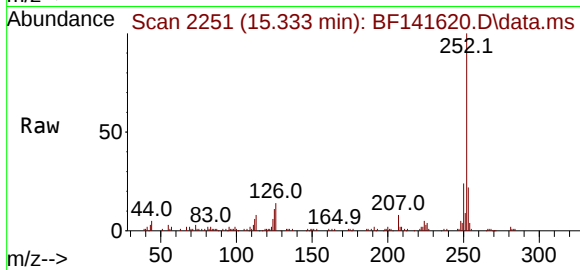
Tgt Ion:252 Resp: 54537

Ion Ratio Lower Upper

252 100

253 21.6 17.1 25.7

125 11.0 7.4 11.2



#92

Benzo(g,h,i)perylene

Concen: 3.289 ng

RT: 17.262 min Scan# 2579

Delta R.T. -0.053 min

Lab File: BF141620.D

Acq: 13 Feb 2025 17:42

Tgt Ion:276 Resp: 33137

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 19.4 15.9 23.9

