

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110321\
 Data File : BF126033.D
 Acq On : 3 Nov 2021 22:32
 Operator : JU/CG
 Sample : M4470-04 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

Quant Time: Nov 04 10:13:05 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 03 17:21:25 2021
 Response via : Initial Calibration

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

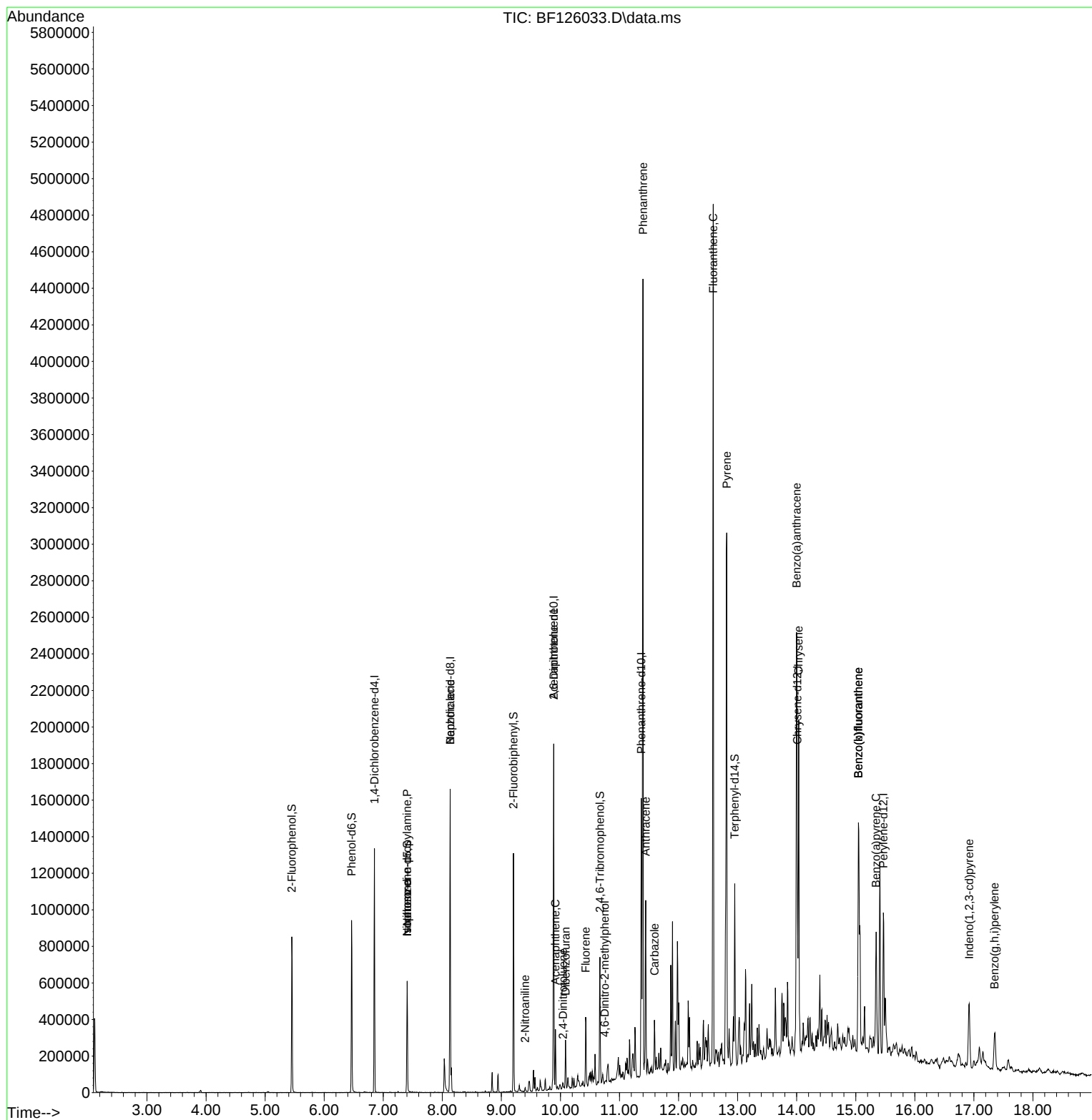
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	153975	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	577191	20.000	ng	# 0.00
39) Acenaphthene-d10	9.886	164	335200	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	525134	20.000	ng	0.00
76) Chrysene-d12	14.010	240	342629	20.000	ng	# 0.00
86) Perylene-d12	15.468	264	345312	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	174571	19.470	ng	-0.01
7) Phenol-d6	6.463	99	234669	18.566	ng	-0.02
23) Nitrobenzene-d5	7.404	82	161718	13.213	ng	-0.02
42) 2,4,6-Tribromophenol	10.669	330	51870	13.503	ng	-0.01
45) 2-Fluorobiphenyl	9.204	172	330497	13.324	ng	-0.01
79) Terphenyl-d14	12.951	244	260518	12.261	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	6.463	77	629	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	7.404	70	23446	2.814	ng	# 72
25) Isophorone	7.404	82	160076	7.264	ng	# 59
32) Benzoic acid	8.133	122	142	9.165	ng	# 1
48) 2-Nitroaniline	9.404	65	123	2.867	ng	# 1
51) 2,6-Dinitrotoluene	9.886	165	45584	10.897	ng	# 29
52) Acenaphthene	9.916	154	54141	2.783	ng	99
55) Dibenzofuran	10.086	168	65817	2.248	ng	94
57) 2,4-Dinitrotoluene	10.045	165	1556	3.406	ng	# 34
58) Fluorene	10.427	166	89875	3.823	ng	99
65) 4,6-Dinitro-2-methylph...	10.751	198	110	8.353	ng	# 1
71) Phenanthrene	11.398	178	1455956	51.125	ng	97
72) Anthracene	11.445	178	312670	10.997	ng	99
73) Carbazole	11.592	167	96549	3.661	ng	97
75) Fluoranthene	12.586	202	1686000	53.165	ng	95
78) Pyrene	12.815	202	1277661	46.499	ng	96
81) Benzo(a)anthracene	13.998	228	762936	32.413	ng	97
83) Chrysene	14.033	228	618803	28.254	ng	97
87) Indeno(1,2,3-cd)pyrene	16.921	276	230230	11.264	ng	# 83
88) Benzo(b)fluoranthene	15.045	252	952437	42.404	ng	# 93
89) Benzo(k)fluoranthene	15.045	252	952437	43.713	ng	98
90) Benzo(a)pyrene	15.345	252	300173	16.963	ng	97
92) Benzo(g,h,i)perylene	17.350	276	174186	10.819	ng	# 81

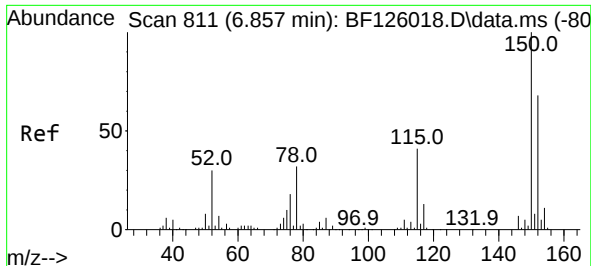
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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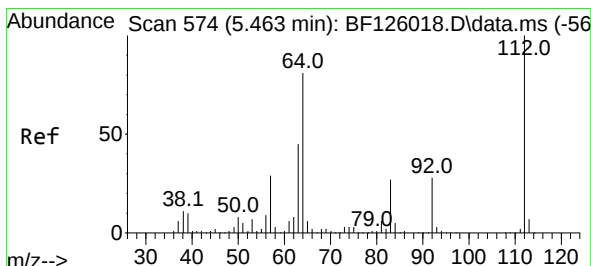
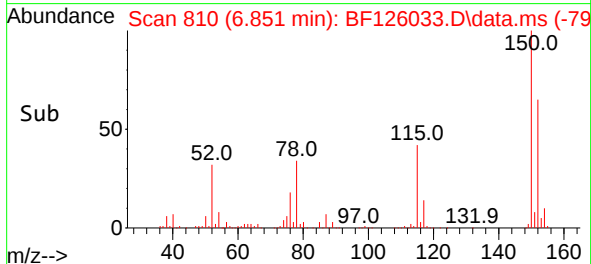
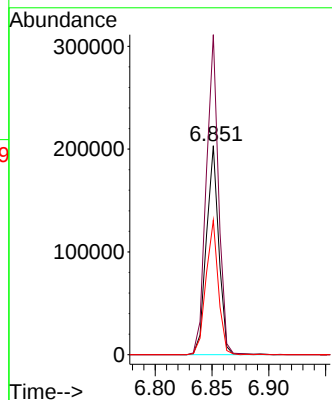
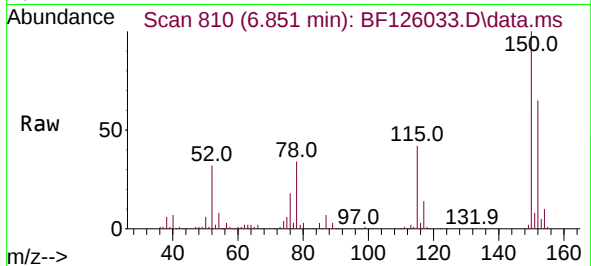




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

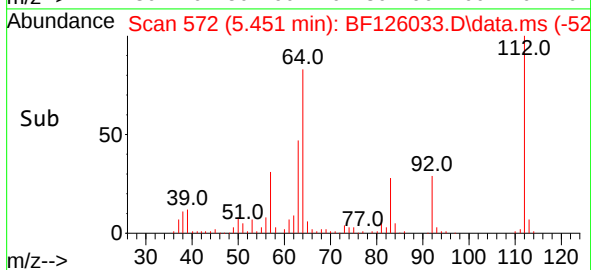
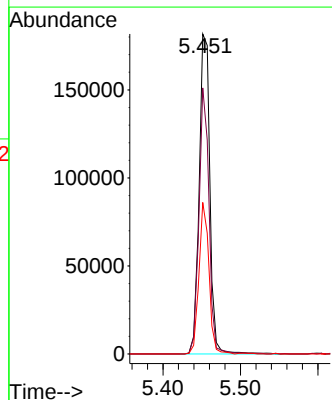
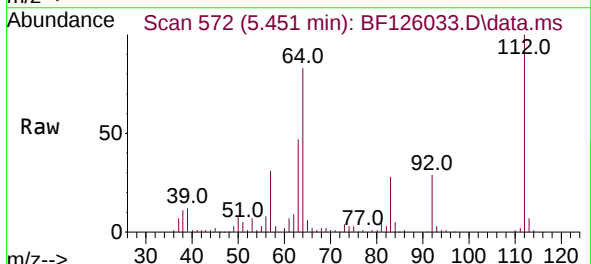
Instrument :
BNA_F
ClientSampleId :
SP-2

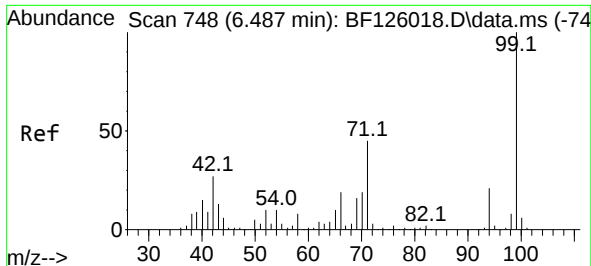
Tgt Ion:152 Resp: 153975
Ion Ratio Lower Upper
152 100
150 153.1 117.6 176.4
115 64.3 47.1 70.7



#5
2-Fluorophenol
Concen: 19.470 ng
RT: 5.451 min Scan# 572
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:112 Resp: 174571
Ion Ratio Lower Upper
112 100
64 83.1 44.2 66.2#
63 47.4 26.2 39.2#





#7

Phenol-d6

Concen: 18.566 ng

RT: 6.463 min Scan# 74

Delta R.T. -0.024 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

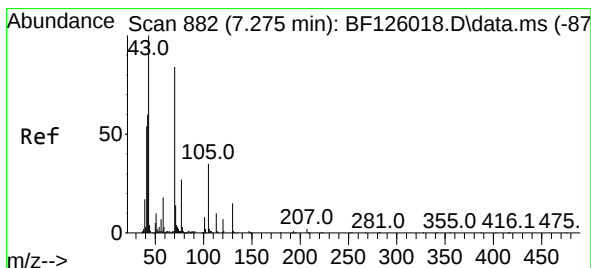
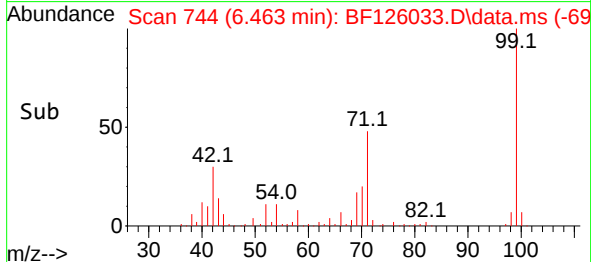
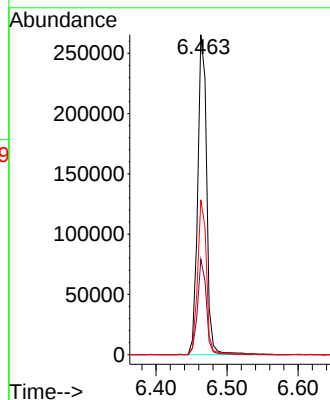
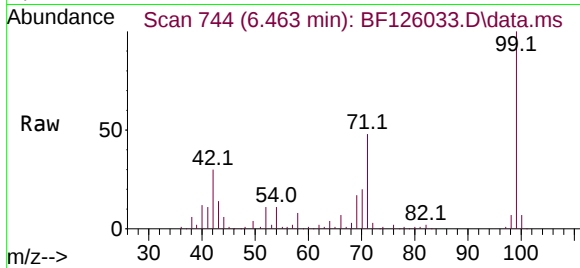
Tgt Ion: 99 Resp: 234669

Ion Ratio Lower Upper

99 100

42 29.8 23.5 35.3

71 48.4 25.6 38.4#



#19

n-Nitroso-di-n-propylamine

Concen: 2.814 ng

RT: 7.404 min Scan# 904

Delta R.T. 0.129 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Tgt Ion: 70 Resp: 23446

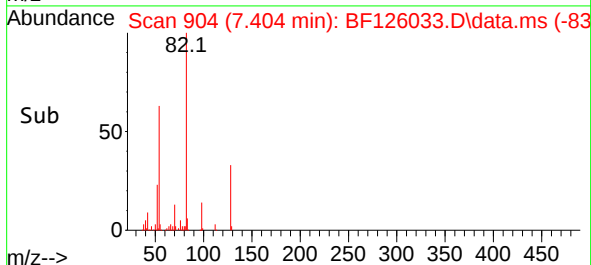
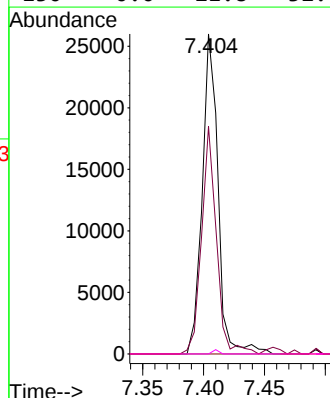
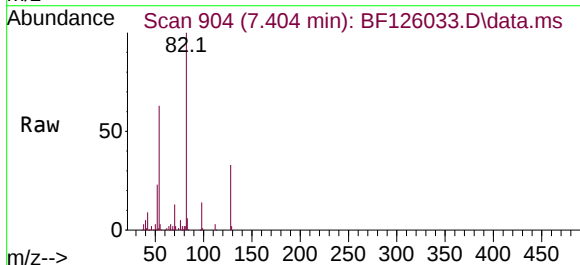
Ion Ratio Lower Upper

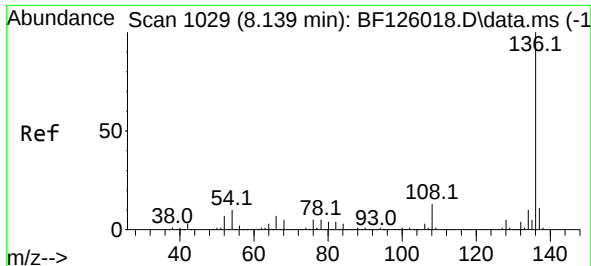
70 100

42 71.1 72.2 108.2#

101 0.0 7.8 11.8#

130 0.0 21.8 32.6#

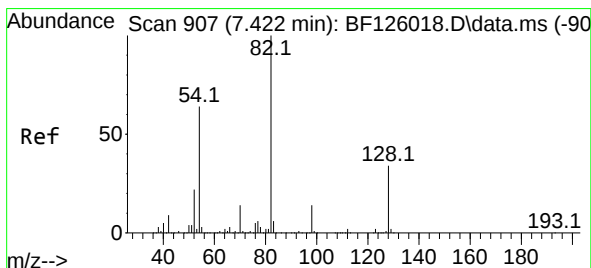
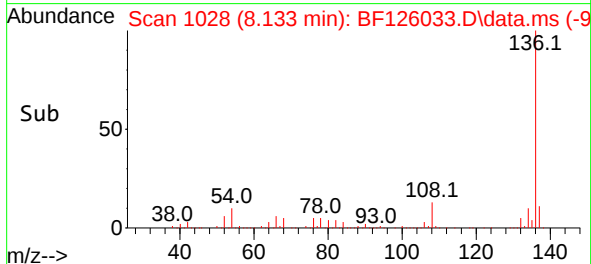
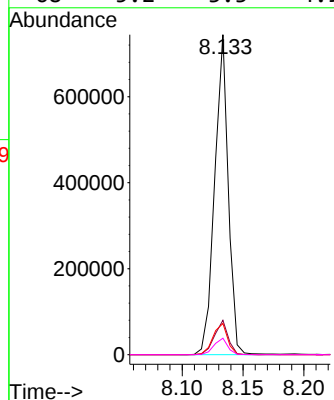
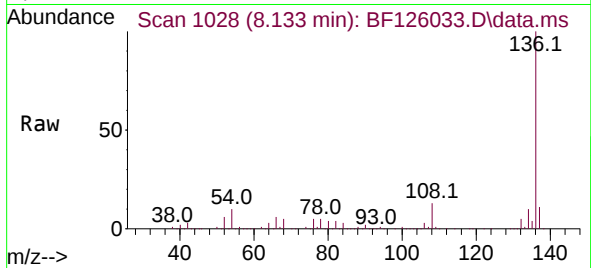




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

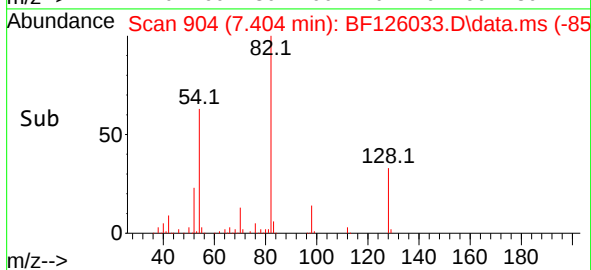
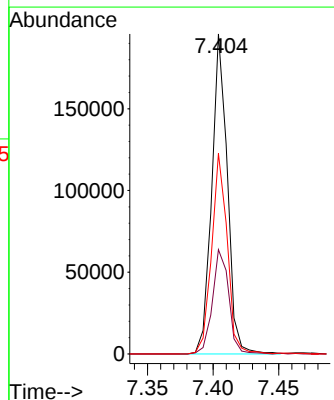
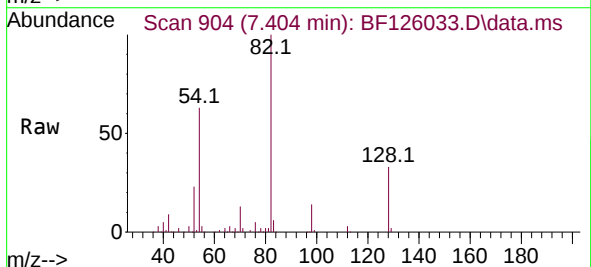
Instrument :
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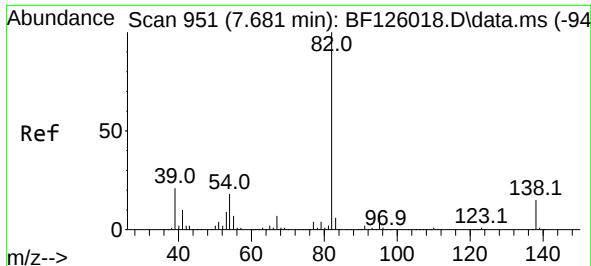
Tgt Ion:136 Resp: 577191
Ion Ratio Lower Upper
136 100
137 10.8 9.8 14.6
54 9.8 6.4 9.6#
68 5.2 3.3 4.9#



#23
Nitrobenzene-d5
Concen: 13.213 ng
RT: 7.404 min Scan# 904
Delta R.T. -0.018 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion: 82 Resp: 161718
Ion Ratio Lower Upper
82 100
128 32.6 40.6 60.8#
54 62.7 49.6 74.4

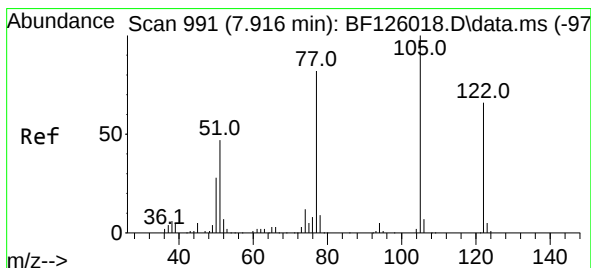
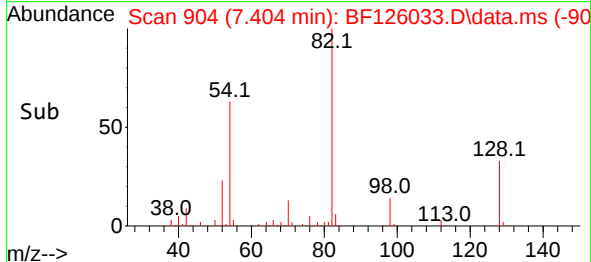
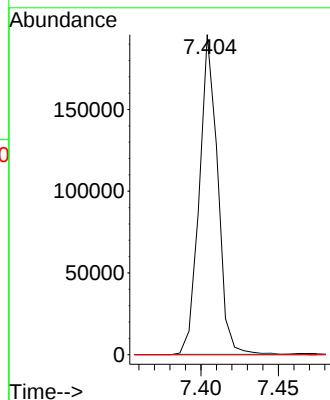
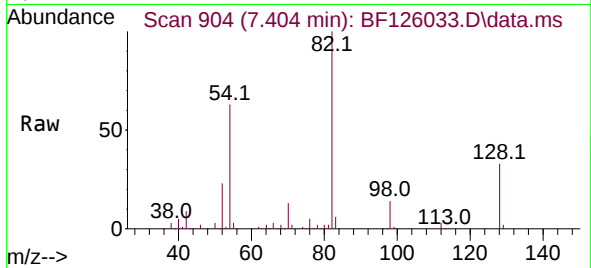




#25
Isophorone
Concen: 7.264 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.277 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

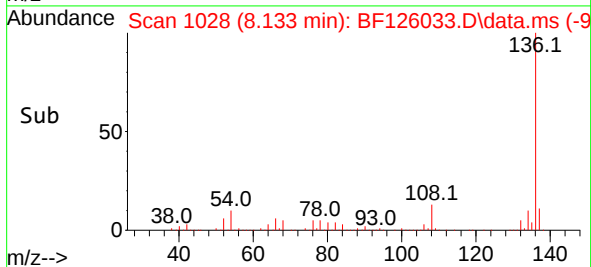
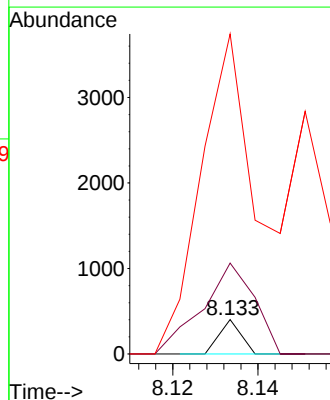
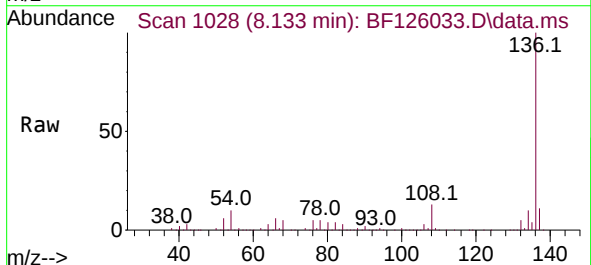
Instrument :
BNA_F
ClientSampleId :
SP-2

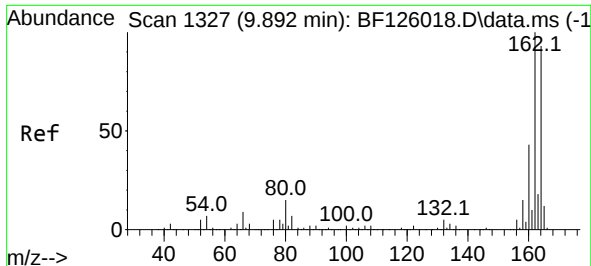
Tgt Ion: 82 Resp: 160076
Ion Ratio Lower Upper
82 100
95 0.0 6.5 9.7#
138 0.0 18.4 27.6#



#32
Benzoic acid
Concen: 9.165 ng
RT: 8.133 min Scan# 1028
Delta R.T. 0.217 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:122 Resp: 142
Ion Ratio Lower Upper
122 100
105 264.7 97.6 137.6#
77 931.1 59.6 99.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.886 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

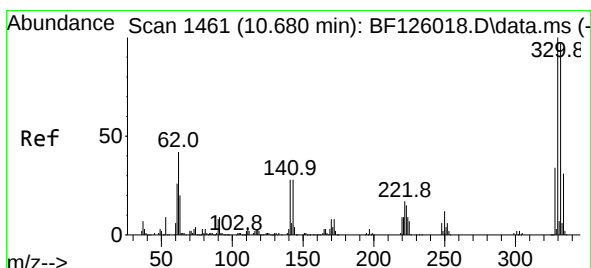
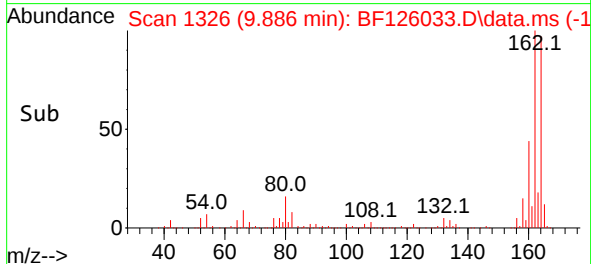
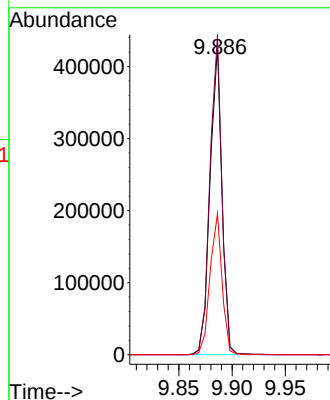
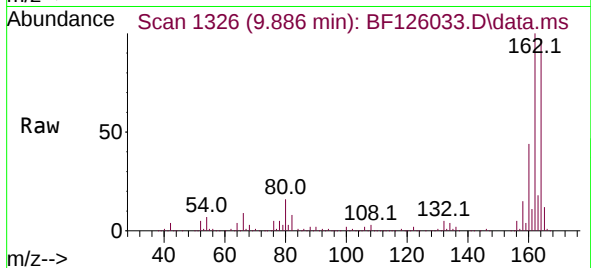
Tgt Ion:164 Resp: 335200

Ion Ratio Lower Upper

164 100

162 103.6 81.3 121.9

160 45.7 38.0 57.0



#42

2,4,6-Tribromophenol

Concen: 13.503 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.012 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

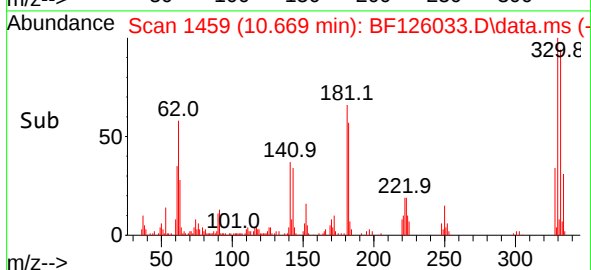
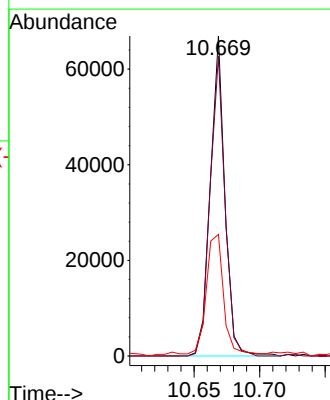
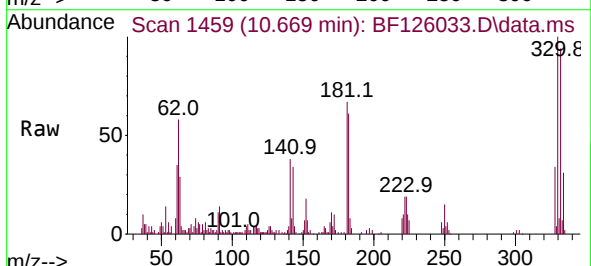
Tgt Ion:330 Resp: 51870

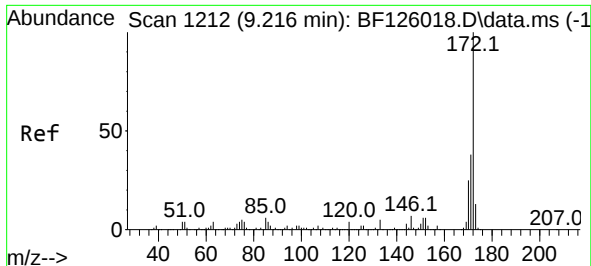
Ion Ratio Lower Upper

330 100

332 95.6 76.2 114.4

141 47.9 44.6 66.8

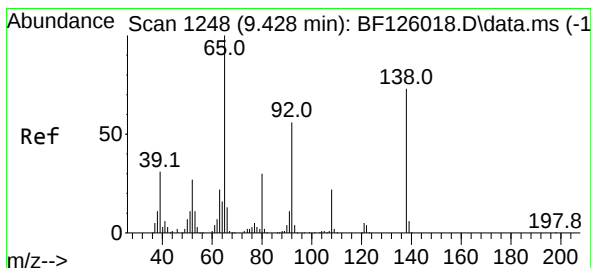
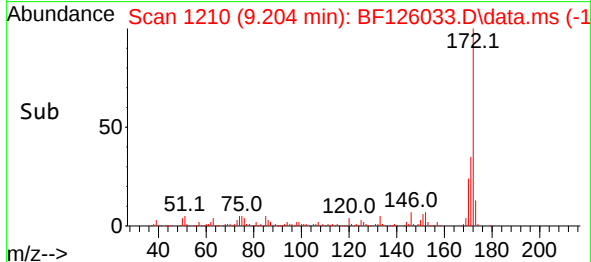
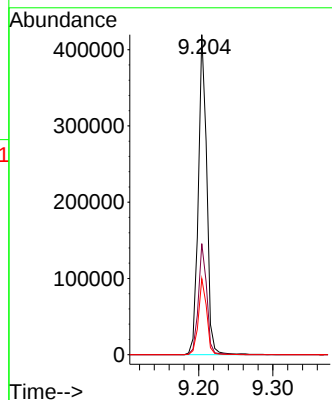
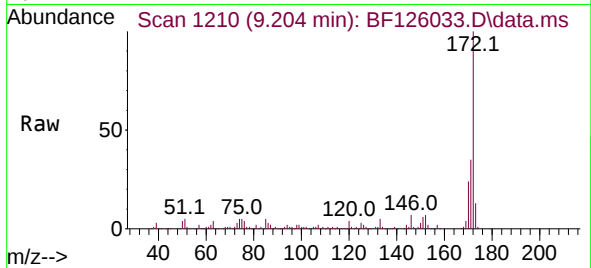




#45
2-Fluorobiphenyl
Concen: 13.324 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

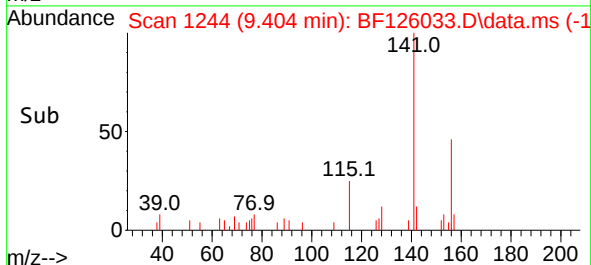
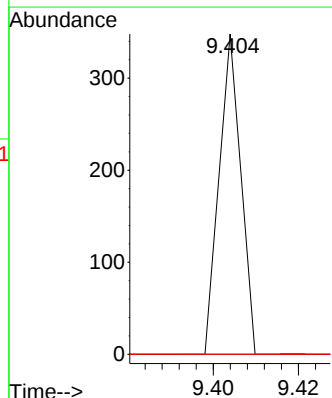
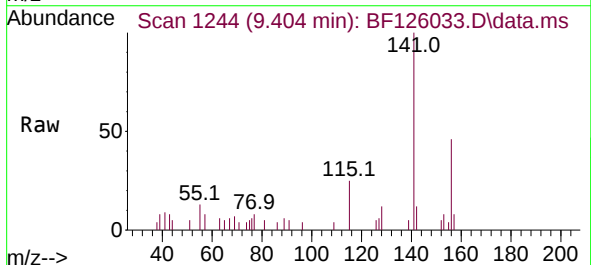
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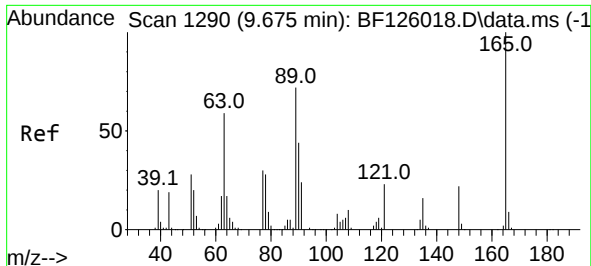
Tgt Ion:172 Resp: 330497
Ion Ratio Lower Upper
172 100
171 34.7 26.5 39.7
170 23.8 18.8 28.2



#48
2-Nitroaniline
Concen: 2.867 ng
RT: 9.404 min Scan# 1244
Delta R.T. -0.024 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion: 65 Resp: 123
Ion Ratio Lower Upper
65 100
92 0.0 55.5 83.3#
138 0.0 93.5 140.3#

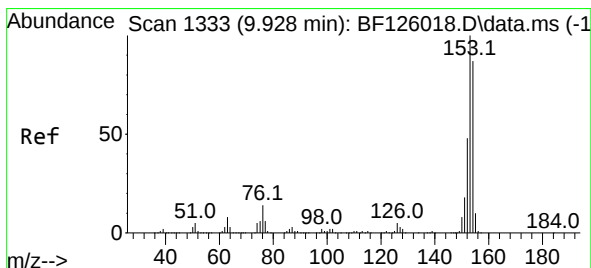
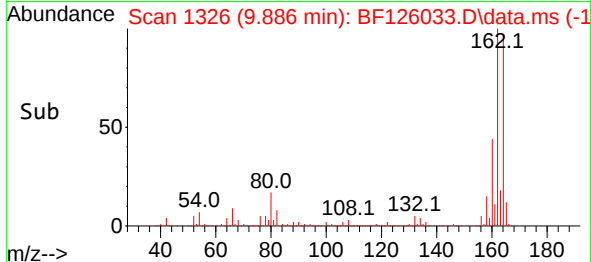
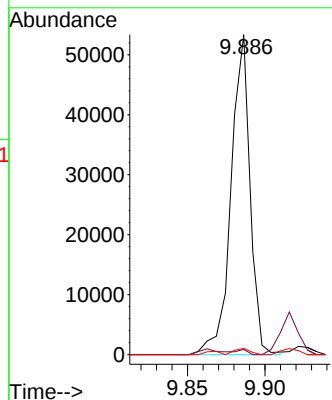
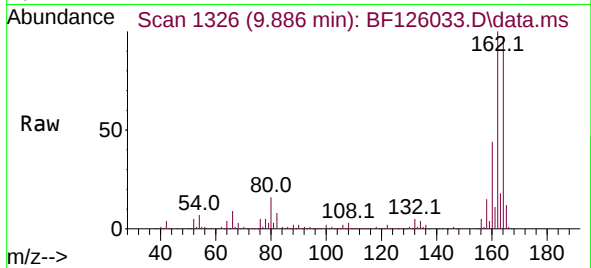




#51
2,6-Dinitrotoluene
Concen: 10.897 ng
RT: 9.886 min Scan# 11
Delta R.T. 0.211 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

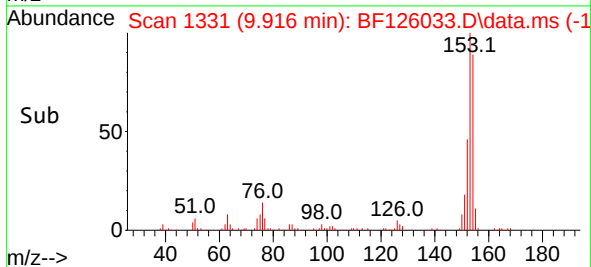
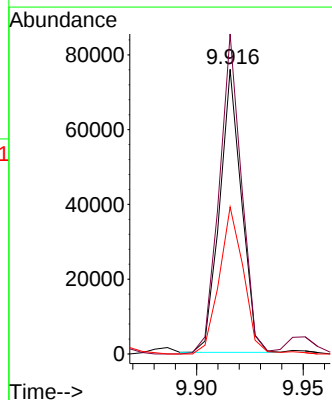
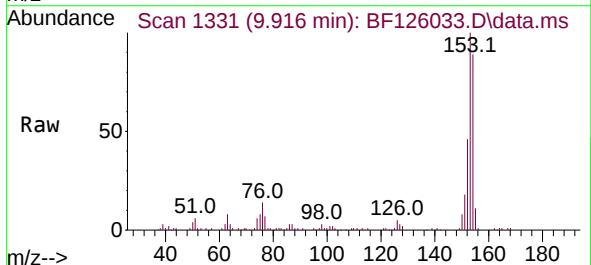
Instrument :
BNA_F
ClientSampleId :
SP-2

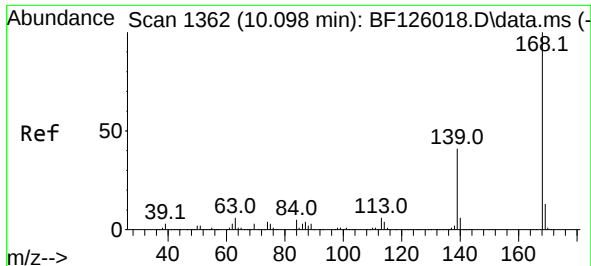
Tgt Ion:165 Resp: 45584
Ion Ratio Lower Upper
165 100
63 1.6 42.6 63.8#
89 2.0 40.6 60.8#



#52
Acenaphthene
Concen: 2.783 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:154 Resp: 54141
Ion Ratio Lower Upper
154 100
153 112.4 89.4 134.2
152 51.6 40.5 60.7

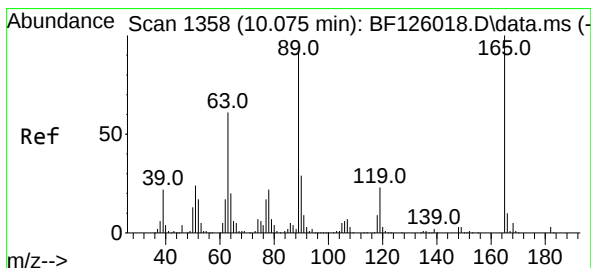
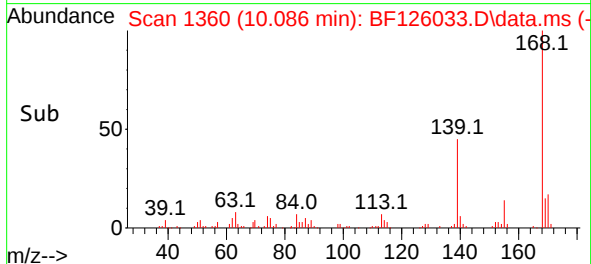
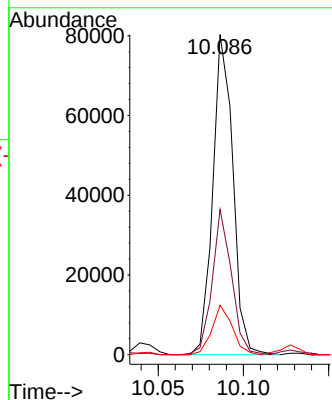
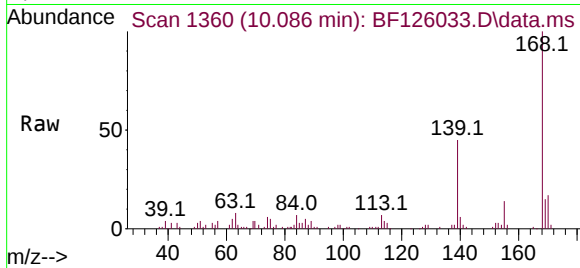




#55
 Dibenzenofuran
 Concen: 2.248 ng
 RT: 10.086 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32

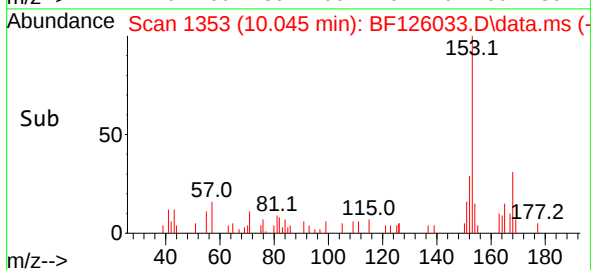
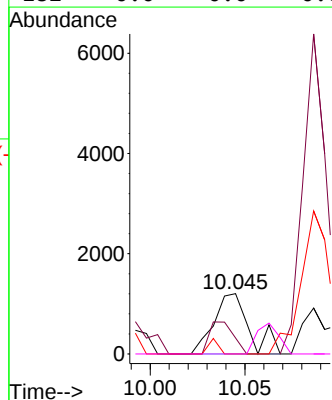
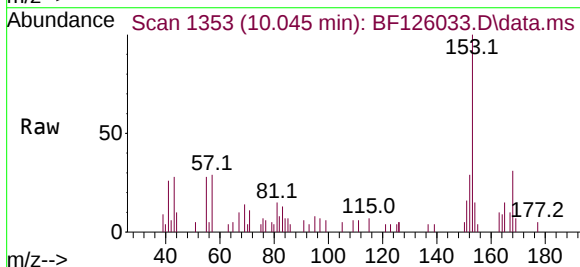
Instrument :
 BNA_F
 ClientSampleId :
 SP-2

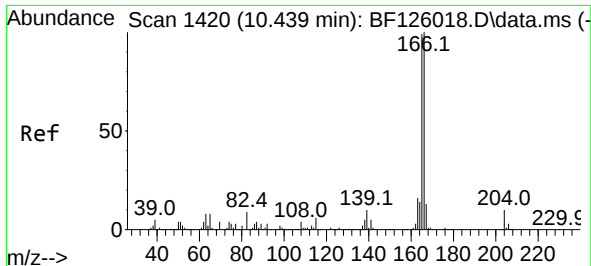
Tgt Ion:168 Resp: 65817
 Ion Ratio Lower Upper
 168 100
 139 45.4 32.7 49.1
 169 15.5 11.2 16.8



#57
 2,4-Dinitrotoluene
 Concen: 3.406 ng
 RT: 10.045 min Scan# 1353
 Delta R.T. -0.030 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32

Tgt Ion:165 Resp: 1556
 Ion Ratio Lower Upper
 165 100
 63 26.5 40.9 61.3#
 89 0.0 59.7 89.5#
 182 0.0 0.0 0.0

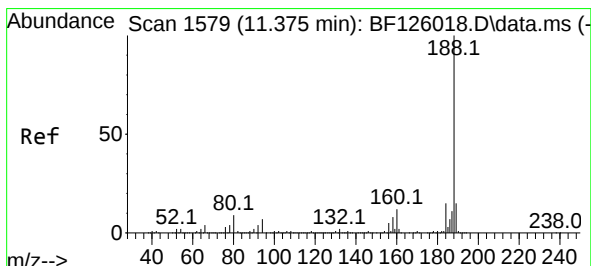
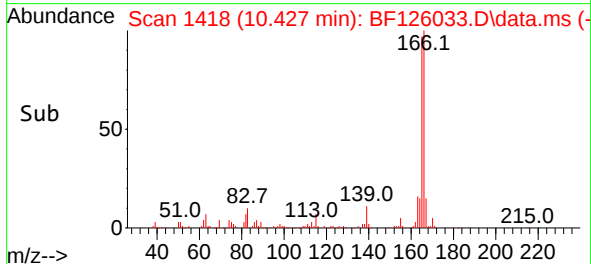
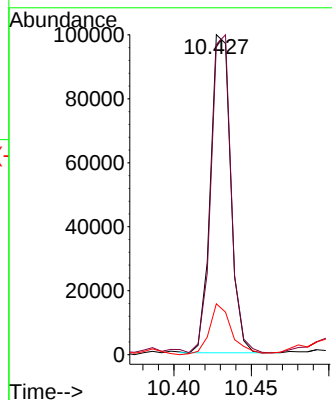
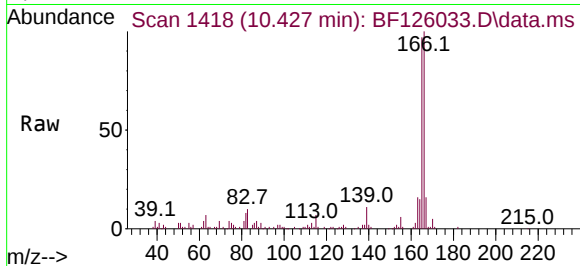




#58
Fluorene
Concen: 3.823 ng
RT: 10.427 min Scan# 1418
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

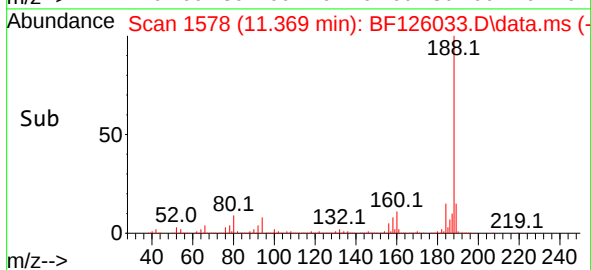
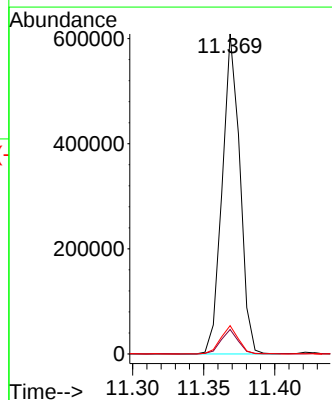
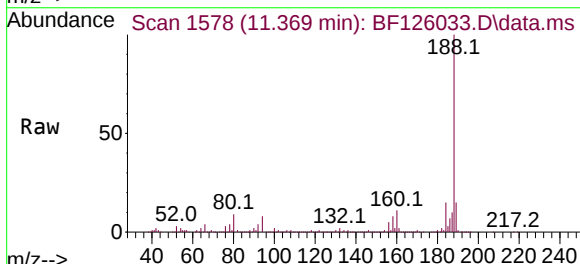
Instrument :
BNA_F
ClientSampleId :
SP-2

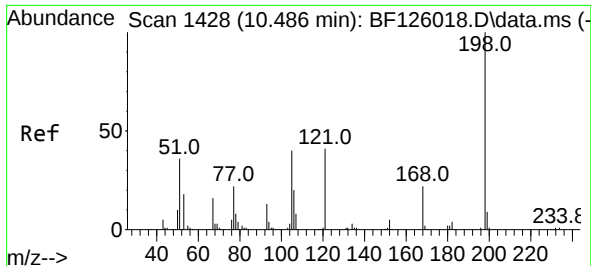
Tgt Ion:166 Resp: 89875
Ion Ratio Lower Upper
166 100
165 96.9 78.1 117.1
167 15.9 11.1 16.7



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:188 Resp: 525134
Ion Ratio Lower Upper
188 100
94 7.6 6.7 10.1
80 8.9 7.5 11.3

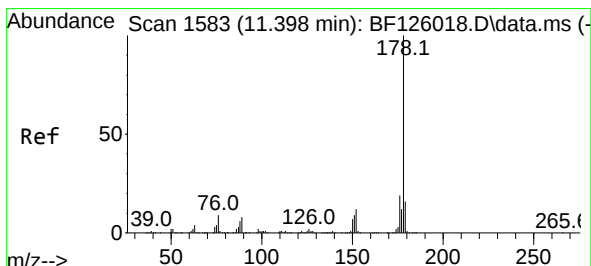
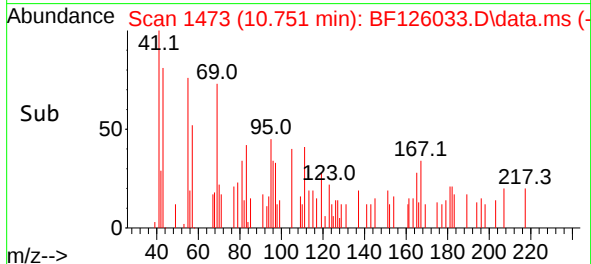
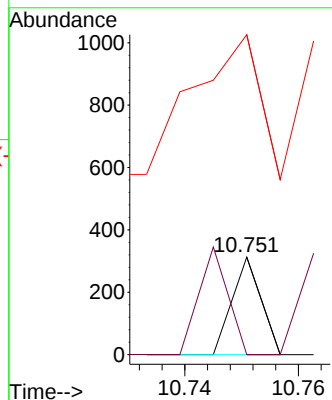
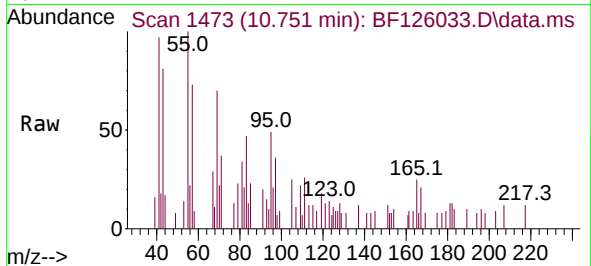




#65
4,6-Dinitro-2-methylphenol
Concen: 8.353 ng
RT: 10.751 min Scan# 1428
Delta R.T. 0.265 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

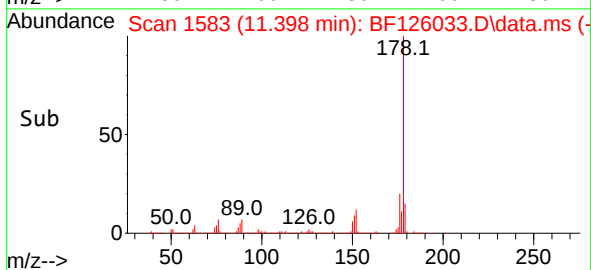
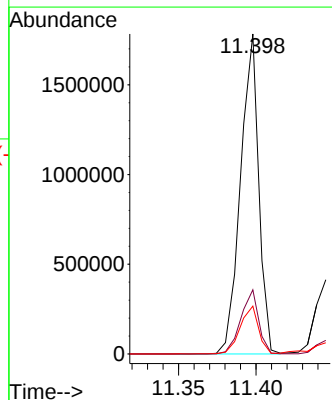
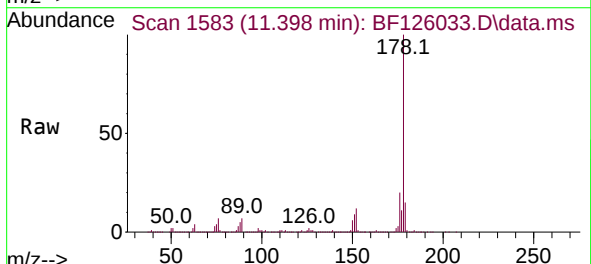
Instrument :
BNA_F
ClientSampleId :
SP-2

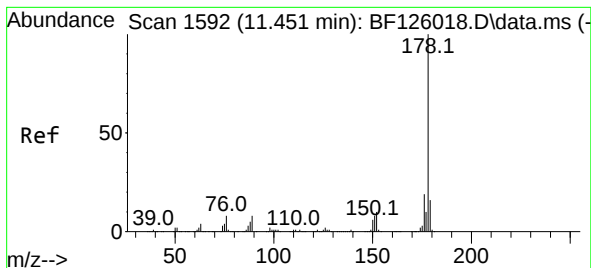
Tgt Ion:198 Resp: 110
Ion Ratio Lower Upper
198 100
51 0.0 45.3 85.3#
105 327.8 30.6 70.6#



#71
Phenanthrene
Concen: 51.125 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:178 Resp: 1455956
Ion Ratio Lower Upper
178 100
176 20.1 14.7 22.1
179 14.9 11.5 17.3





#72

Anthracene

Concen: 10.997 ng

RT: 11.445 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

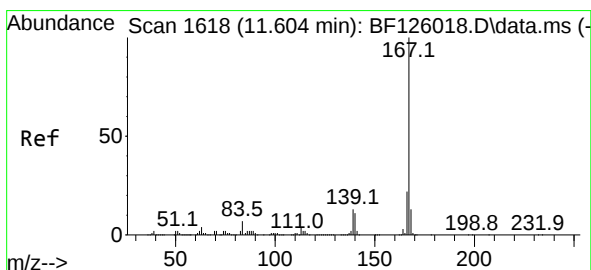
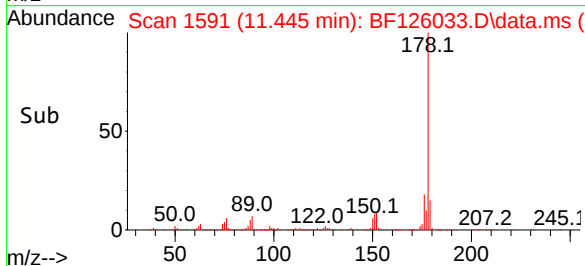
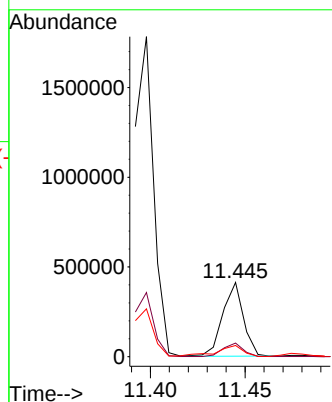
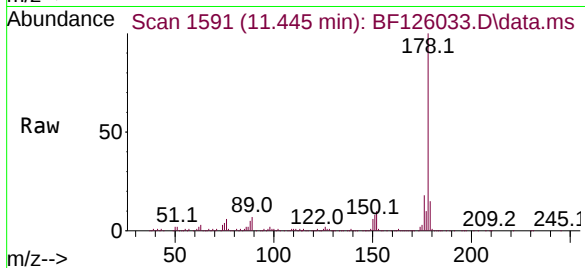
Tgt Ion:178 Resp: 312670

Ion Ratio Lower Upper

178 100

176 18.4 14.3 21.5

179 15.2 12.2 18.4



#73

Carbazole

Concen: 3.661 ng

RT: 11.592 min Scan# 1616

Delta R.T. -0.012 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

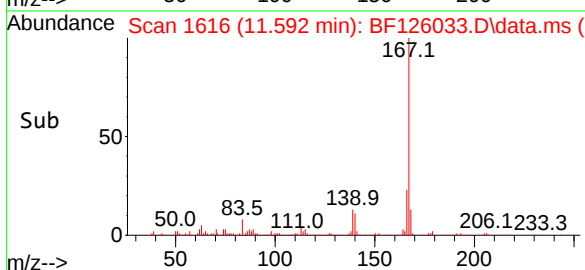
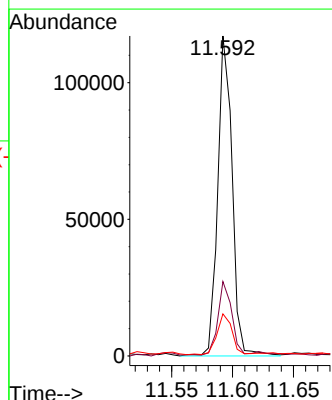
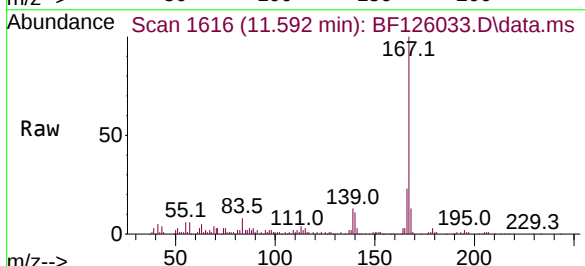
Tgt Ion:167 Resp: 96549

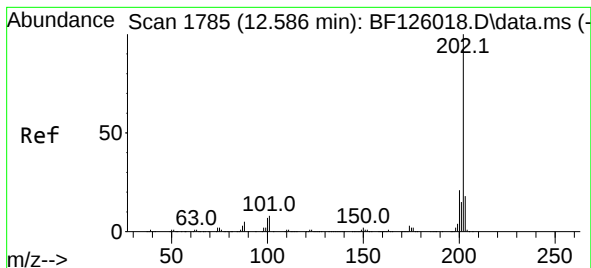
Ion Ratio Lower Upper

167 100

166 23.3 17.4 26.0

139 13.2 11.0 16.4





#75

Fluoranthene

Concen: 53.165 ng

RT: 12.586 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

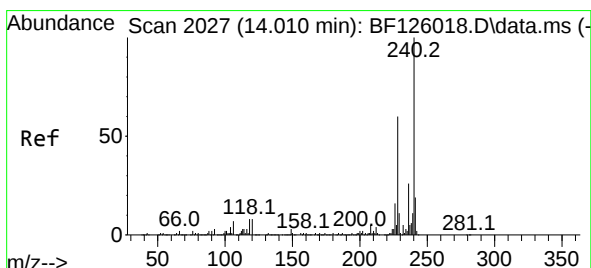
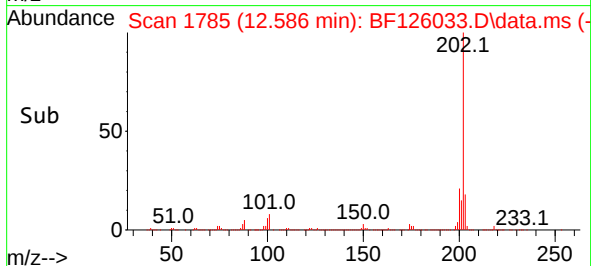
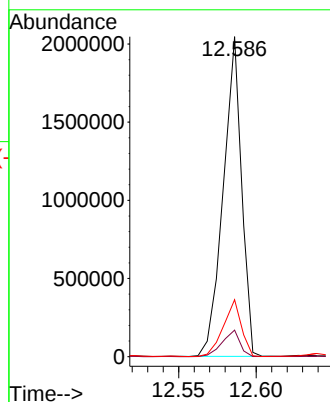
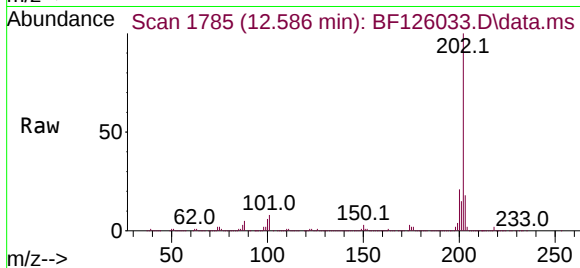
Tgt Ion:202 Resp: 1686000

Ion Ratio Lower Upper

202 100

101 8.3 0.0 30.7

203 17.8 0.0 36.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.000 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

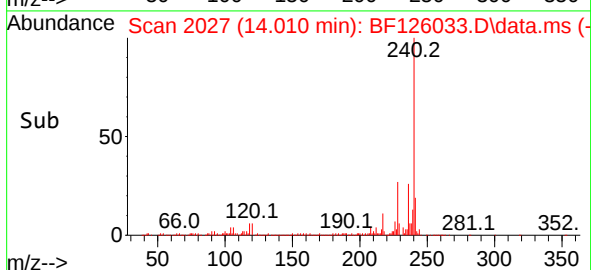
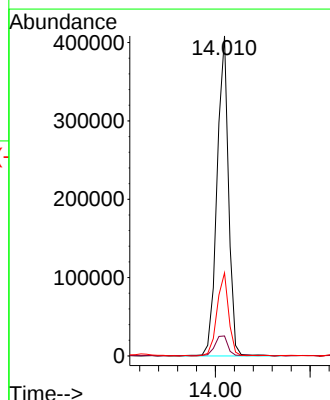
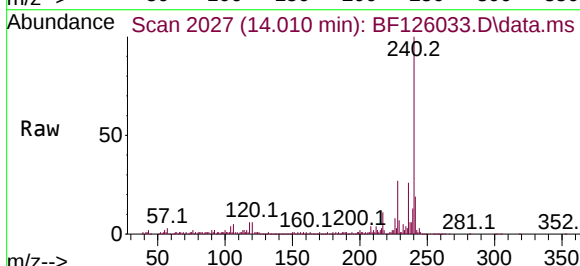
Tgt Ion:240 Resp: 342629

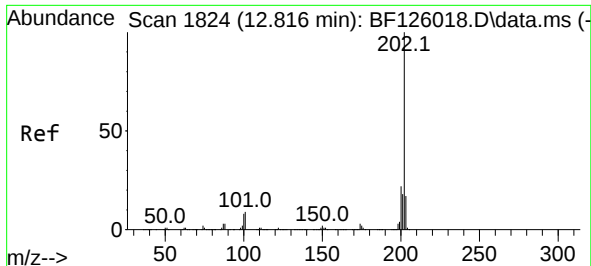
Ion Ratio Lower Upper

240 100

120 6.2 10.8 16.2#

236 26.0 21.6 32.4

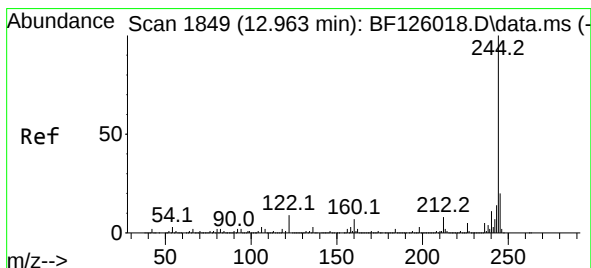
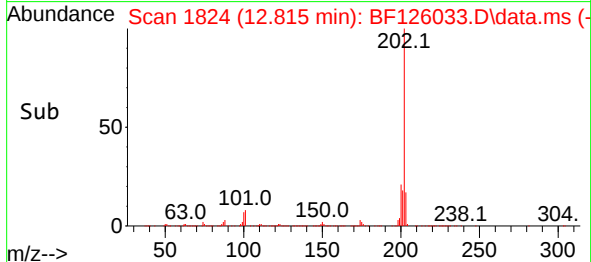
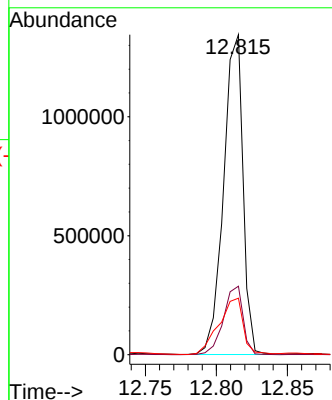
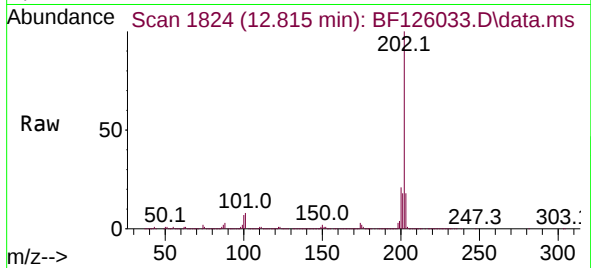




#78
Pyrene
Concen: 46.499 ng
RT: 12.815 min Scan# 1824
Delta R.T. -0.001 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

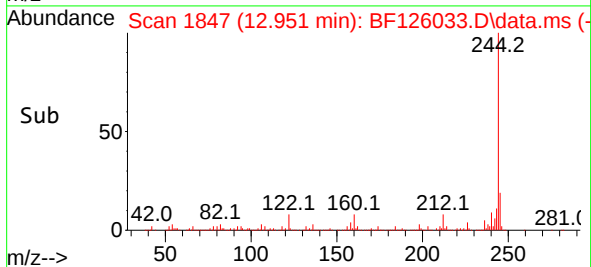
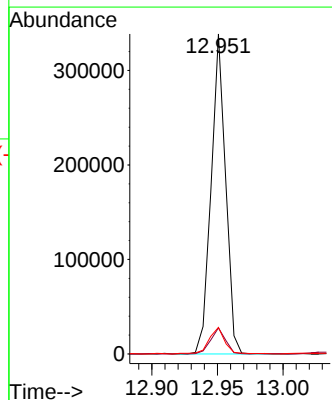
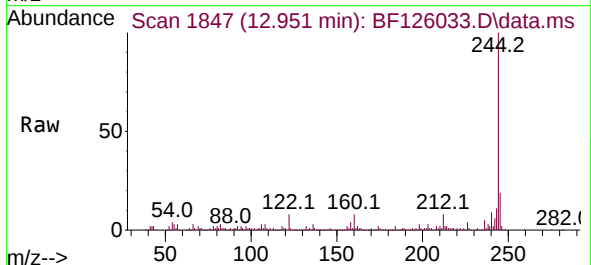
Instrument :
BNA_F
ClientSampleId :
SP-2

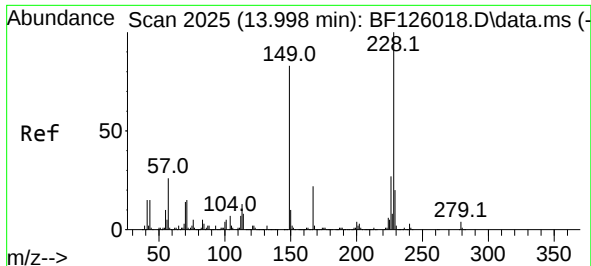
Tgt Ion:202 Resp: 1277661
Ion Ratio Lower Upper
202 100
200 21.4 15.3 22.9
203 17.7 13.4 20.0



#79
Terphenyl-d14
Concen: 12.261 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:244 Resp: 260518
Ion Ratio Lower Upper
244 100
212 8.1 5.9 8.9
122 8.3 9.0 13.4#

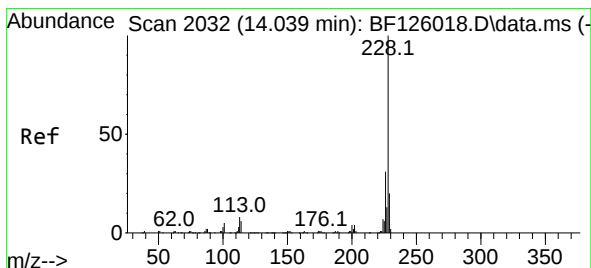
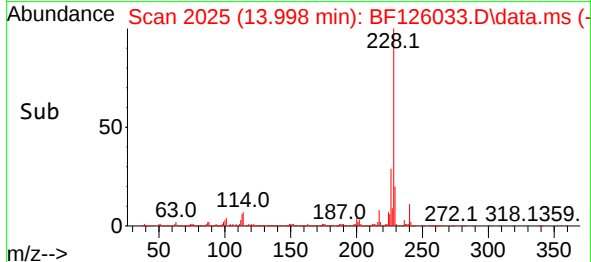
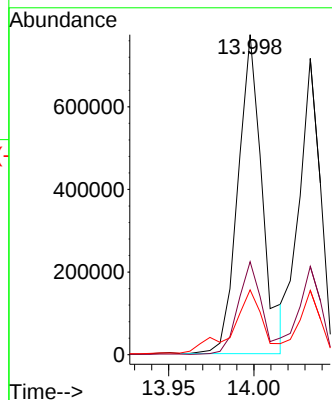
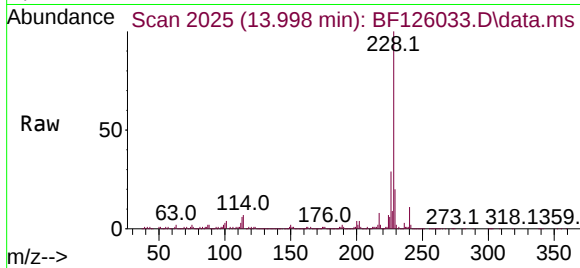




#81
Benzo(a)anthracene
Concen: 32.413 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

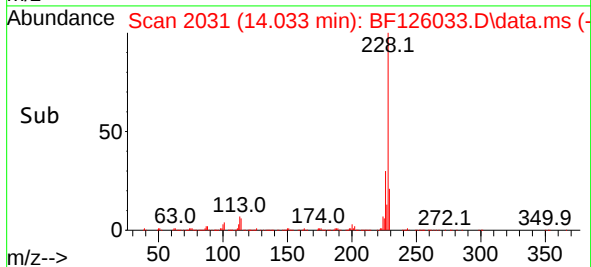
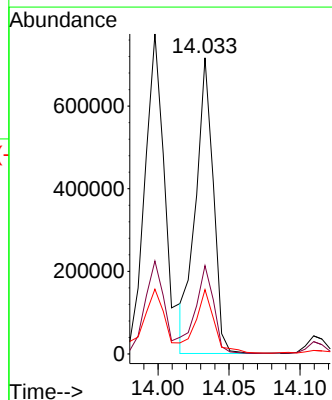
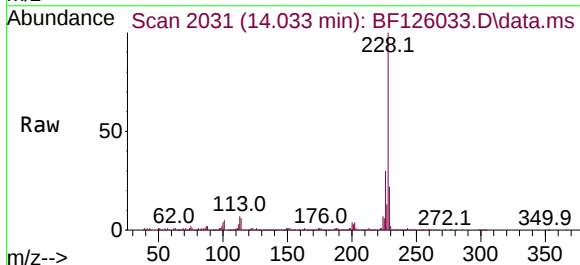
Instrument :
BNA_F
ClientSampleId :
SP-2

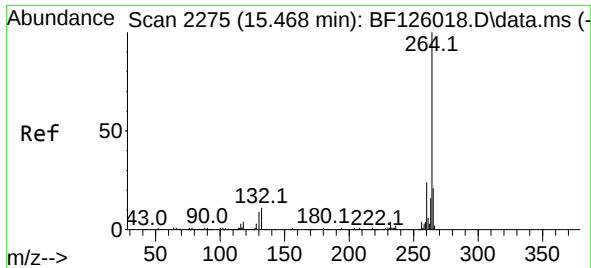
Tgt Ion:228 Resp: 762936
Ion Ratio Lower Upper
228 100
226 29.1 21.6 32.4
229 20.3 15.6 23.4



#83
Chrysene
Concen: 28.254 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:228 Resp: 618803
Ion Ratio Lower Upper
228 100
226 29.8 22.6 34.0
229 21.7 15.9 23.9



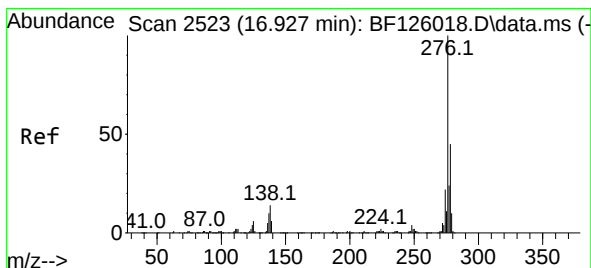
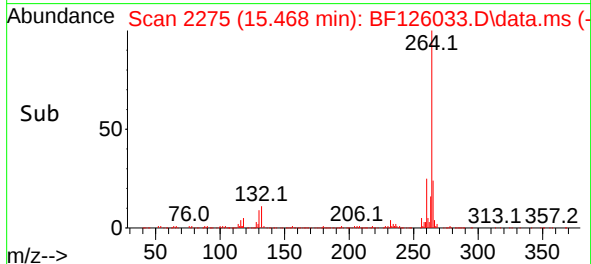
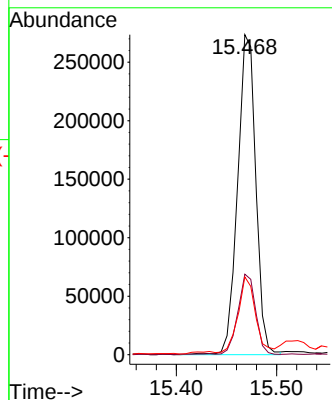
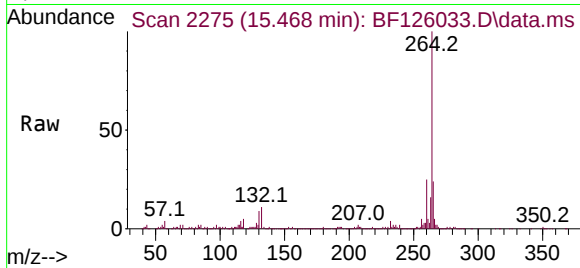


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Instrument :
BNA_F
ClientSampleId :
SP-2

Tgt Ion:264 Resp: 345312

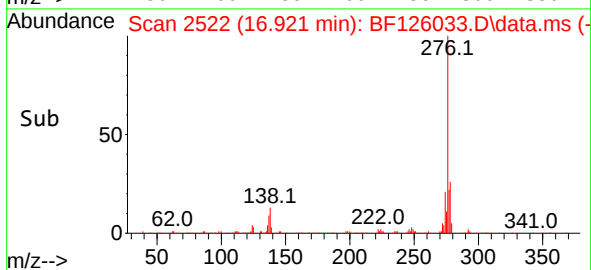
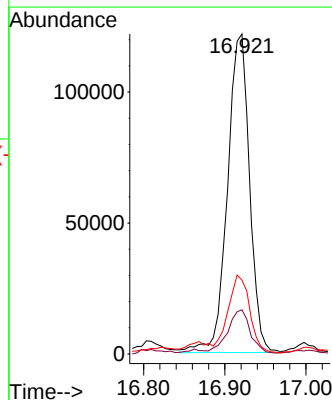
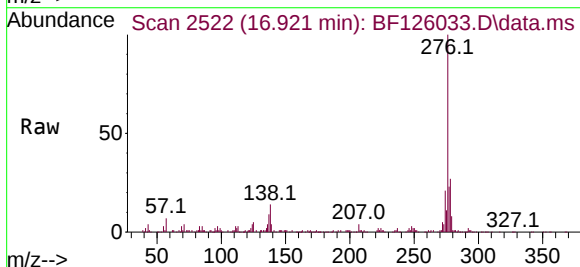
Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.6	29.4
265	24.3	17.2	25.8

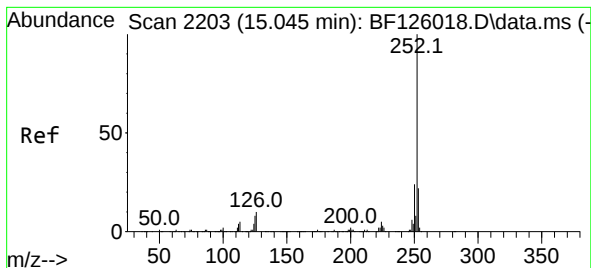


#87
Indeno(1,2,3-cd)pyrene
Concen: 11.264 ng
RT: 16.921 min Scan# 2522
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:276 Resp: 230230

Ion	Ratio	Lower	Upper
276	100		
138	14.0	24.1	36.1#
277	23.8	18.8	28.2





#88

Benzo(b)fluoranthene

Concen: 42.404 ng

RT: 15.045 min Scan# 2203

Delta R.T. -0.000 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

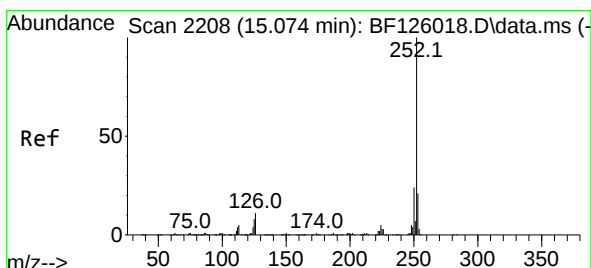
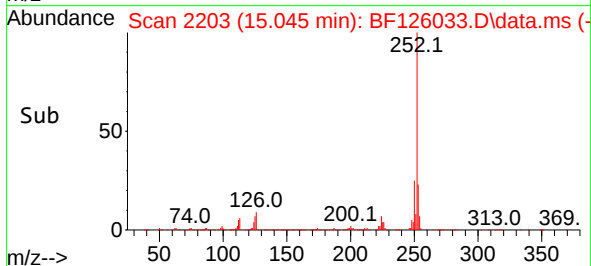
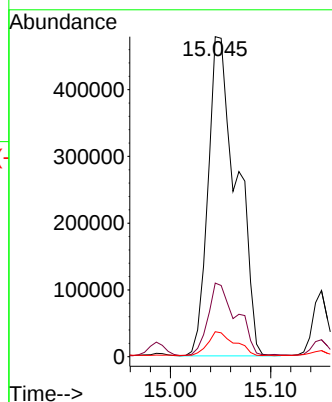
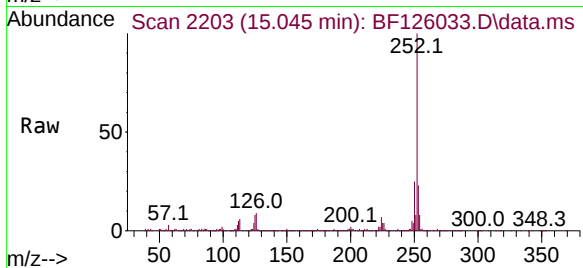
Tgt Ion:252 Resp: 952437

Ion Ratio Lower Upper

252 100

253 23.0 16.8 25.2

125 7.8 9.8 14.8#



#89

Benzo(k)fluoranthene

Concen: 43.713 ng

RT: 15.045 min Scan# 2203

Delta R.T. -0.030 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

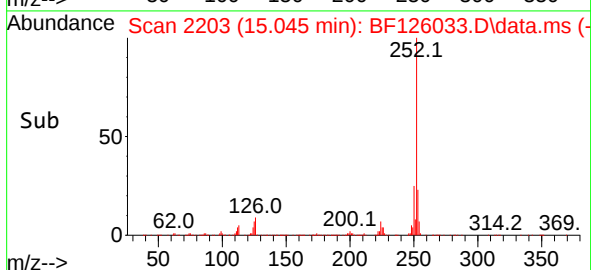
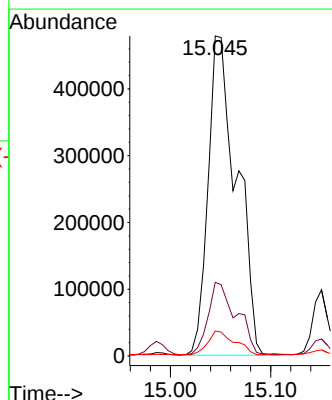
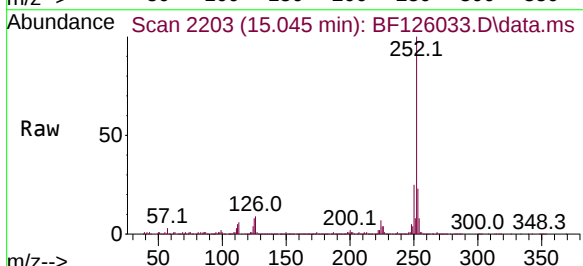
Tgt Ion:252 Resp: 952437

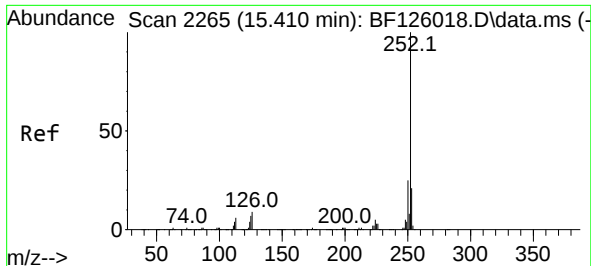
Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.8

125 7.8 7.2 10.8

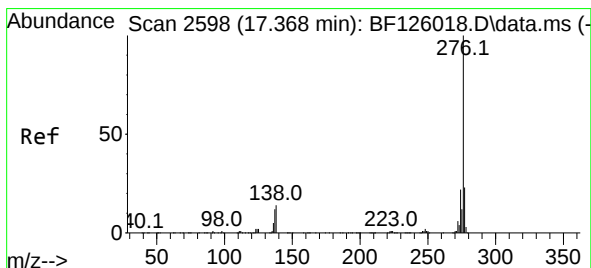
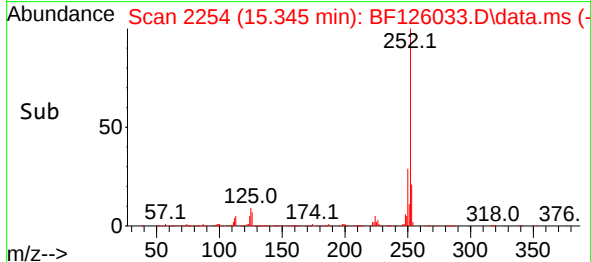
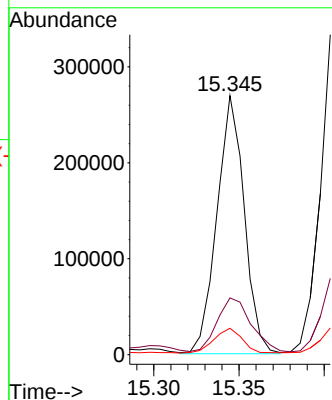
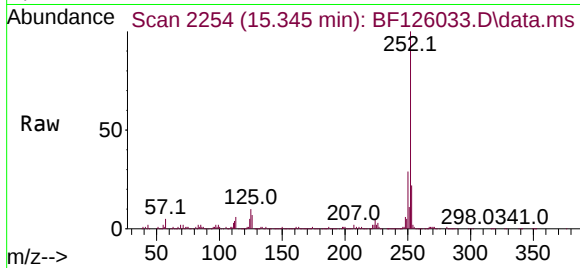




#90
Benzo(a)pyrene
Concen: 16.963 ng
RT: 15.345 min Scan# 21
Delta R.T. -0.065 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Instrument :
BNA_F
ClientSampleId :
SP-2

Tgt Ion:252 Resp: 300173
Ion Ratio Lower Upper
252 100
253 21.9 18.4 27.6
125 10.2 9.9 14.9



#92
Benzo(g,h,i)perylene
Concen: 10.819 ng
RT: 17.350 min Scan# 2595
Delta R.T. -0.018 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:276 Resp: 174186
Ion Ratio Lower Upper
276 100
277 21.4 22.0 33.0#
138 13.7 22.2 33.4#

