

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091520\
 Data File : BF121571.D
 Acq On : 15 Sep 2020 11:30
 Operator : JU/CG
 Sample : L3981-04RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B18-0-2RE

Quant Time: Sep 15 12:25:05 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 10 16:47:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	191815	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	739898	20.00	ng	0.00
39) Acenaphthene-d10	9.86	164	383256	20.00	ng	0.00
64) Phenanthrene-d10	11.35	188	687332	20.00	ng	0.00
76) Chrysene-d12	13.99	240	478693	20.00	ng	0.00
86) Perylene-d12	15.45	264	489521	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	509060	39.44	ng	0.01
7) Phenol-d6	6.47	99	764317	45.14	ng	0.00
23) Nitrobenzene-d5	7.39	82	437232	31.73	ng	-0.01
42) 2,4,6-Tribromophenol	10.66	330	332823	69.87	ng	0.00
45) 2-Fluorobiphenyl	9.19	172	1089396	43.05	ng	0.00
79) Terphenyl-d14	12.94	244	1269150	53.71	ng	0.00

Target Compounds

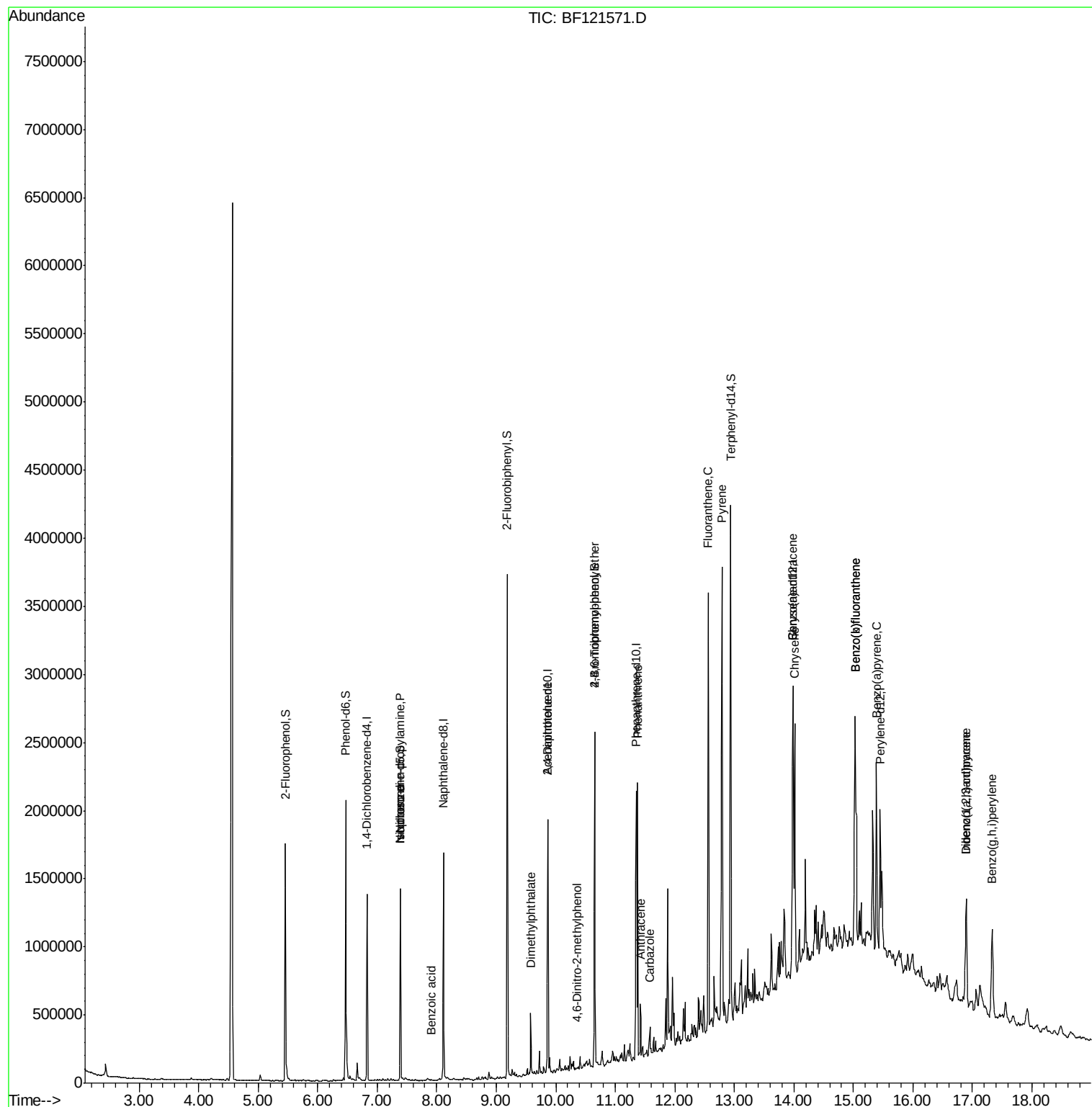
						Qvalue
19) n-Nitroso-di-n-propylamine	7.39	70	57771	5.920	ng	# 81
25) Isophorone	7.39	82	437223	15.761	ng	# 66
32) Benzoic acid	7.91	122	1321	7.058	ng	# 55
50) Dimethylphthalate	9.58	163	151446	5.452	ng	100
57) 2,4-Dinitrotoluene	9.86	165	52260	7.022	ng	# 24
65) 4,6-Dinitro-2-methylphenol	10.37	198	549	6.964	ng	# 1
67) 4-Bromophenyl-phenylether	10.66	248	20204	2.582	ng	# 1
71) Phenanthrene	11.37	178	674187	18.003	ng	99
72) Anthracene	11.42	178	142055	3.676	ng	98
73) Carbazole	11.58	167	71590	2.053	ng	98
75) Fluoranthene	12.56	202	1364082	34.122	ng	100
78) Pyrene	12.79	202	1383667	39.562	ng	100
81) Benzo(a)anthracene	13.98	228	673365	22.235	ng	98
83) Chrysene	14.02	228	705701	23.012	ng	98
87) Indeno(1,2,3-cd)pyrene	16.89	276	549381	17.233	ng	95
88) Benzo(b)fluoranthene	15.03	252	1298608	39.682	ng	98
89) Benzo(k)fluoranthene	15.03	252	1298608	43.334	ng	98
90) Benzo(a)pyrene	15.39	252	715019	25.704	ng	# 95
91) Dibenzo(a,h)anthracene	16.90	278	143908	5.423	ng	93
92) Benzo(a,h,i)perylene	17.33	276	528581	20.263	ng	98

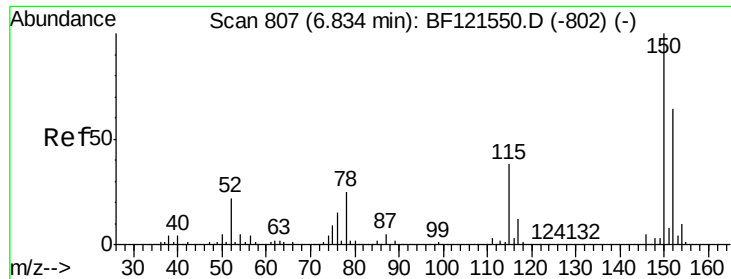
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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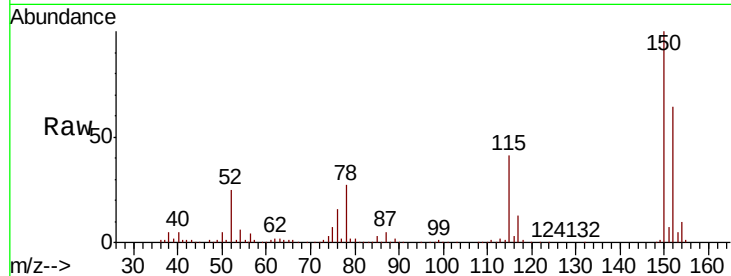


#1

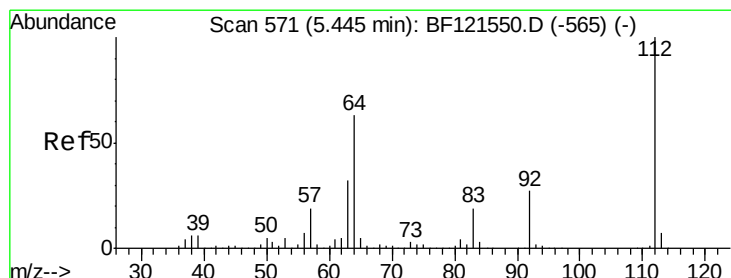
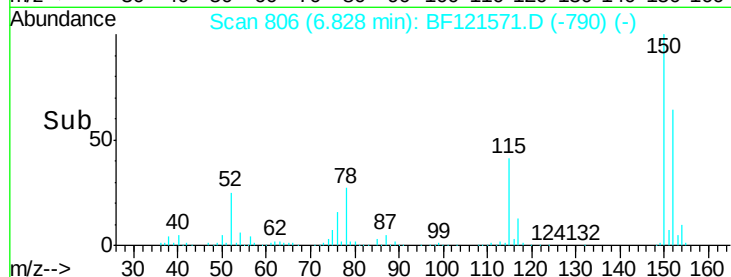
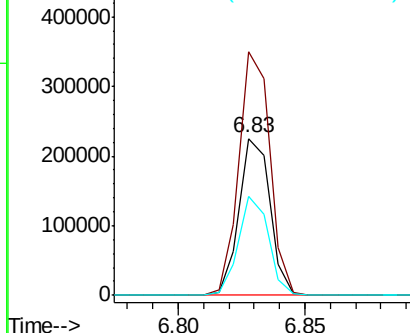
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 806
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

Tot Ion:152 Resp: 191815
Ion Ratio Lower Upper
152 100
150 155.4 125.8 188.6
115 63.5 47.8 71.8



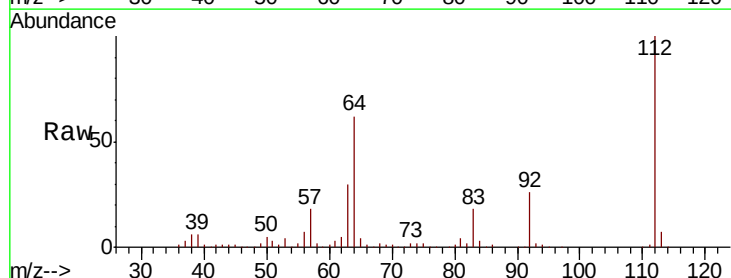
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



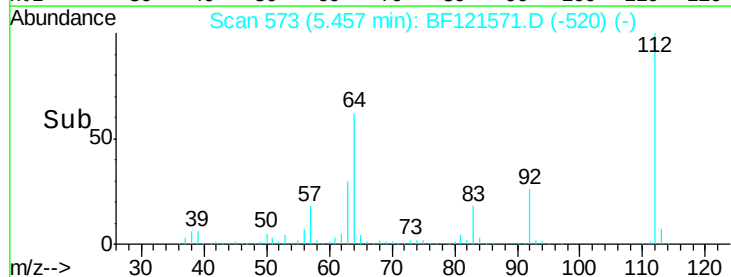
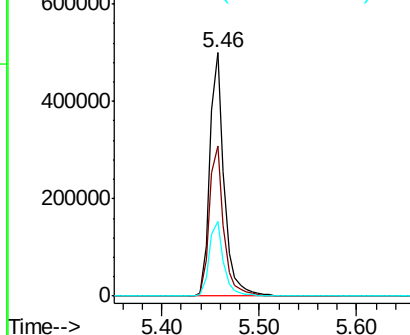
#5

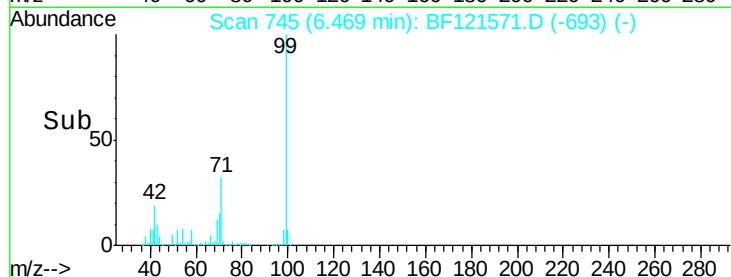
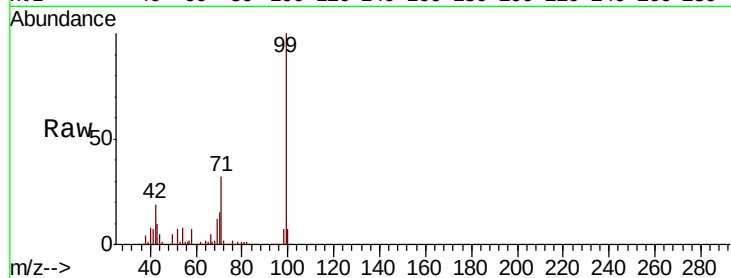
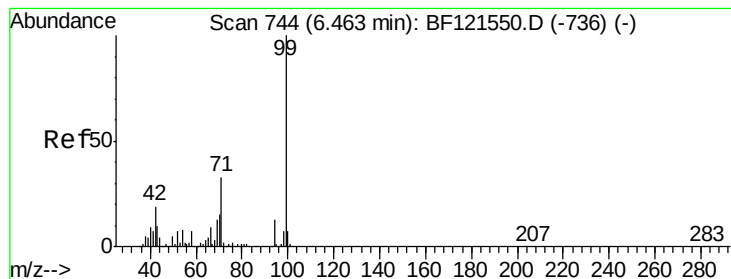
2-Fluorophenol
Concen: 39.440 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:112 Resp: 509060
Ion Ratio Lower Upper
112 100
64 61.6 50.3 75.5
63 30.5 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 45.137 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

Instrument :

BNA_F

ClientSampleId :

B18-0-2RE

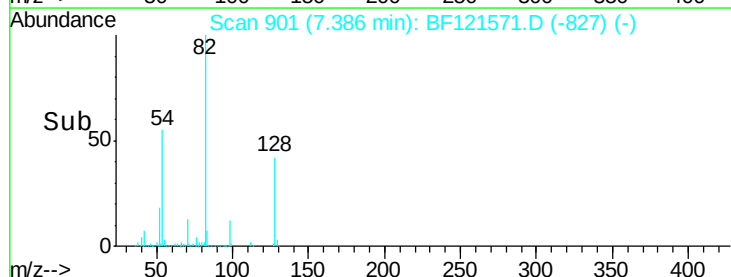
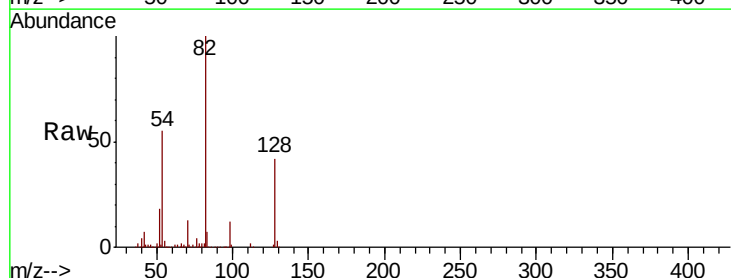
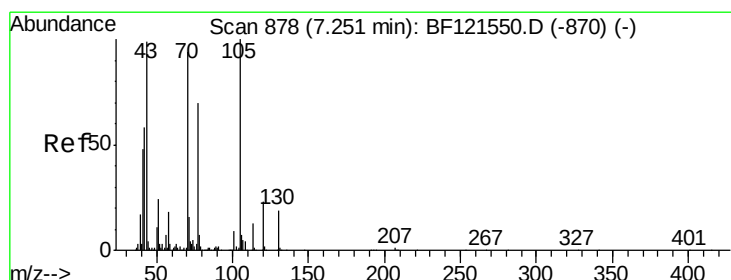
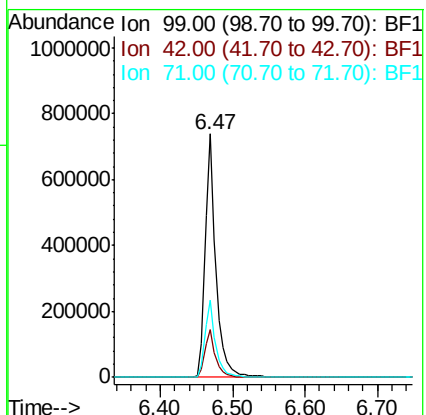
Tot Ion: 99 Resp: 764317

Ion Ratio Lower Upper

99 100

42 19.4 15.5 23.3

71 31.8 26.1 39.1



#19

n-Nitroso-di-n-propylamine

Concen: 5.920 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.14 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

Tgt Ion: 70 Resp: 57771

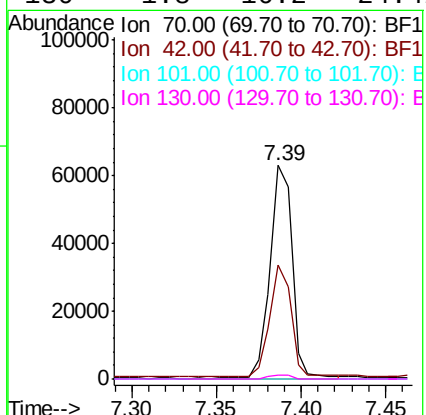
Ion Ratio Lower Upper

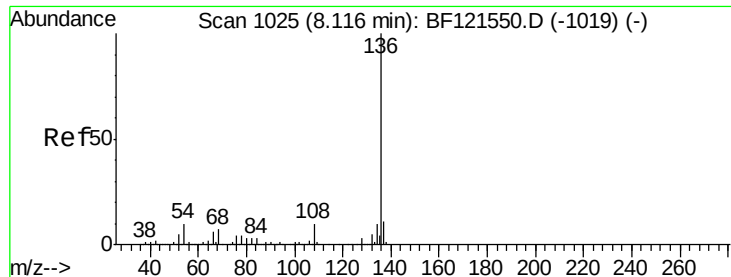
70 100

42 53.5 49.4 74.2

101 0.0 7.6 11.4#

130 1.8 16.2 24.4#

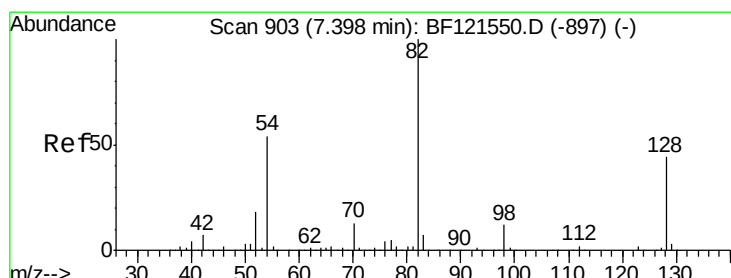
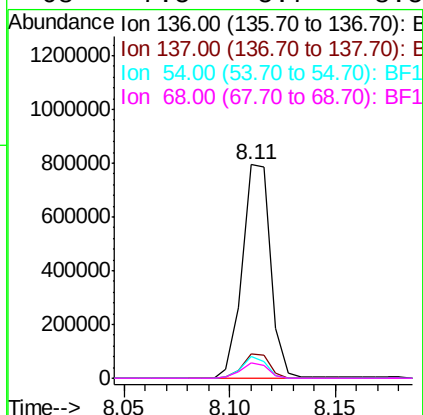
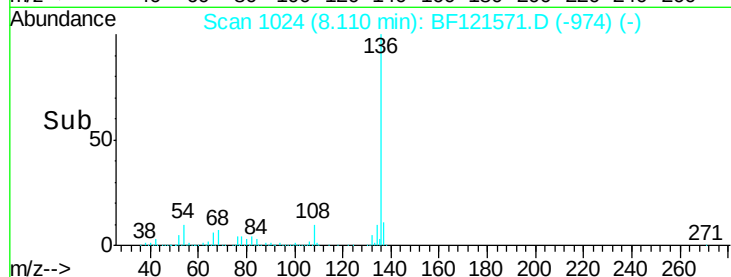
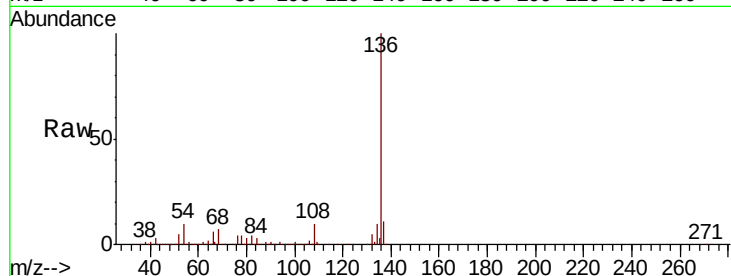




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

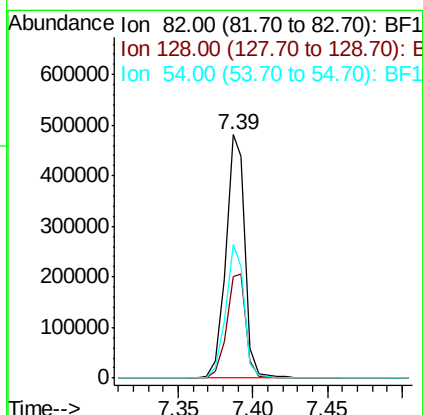
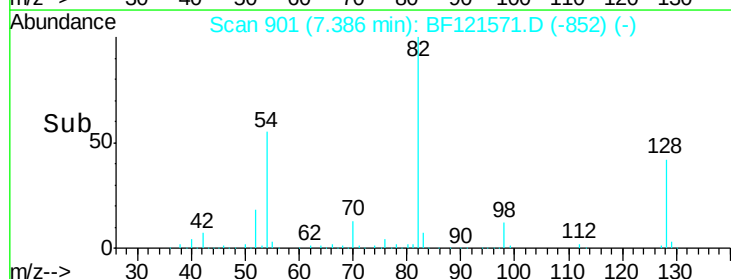
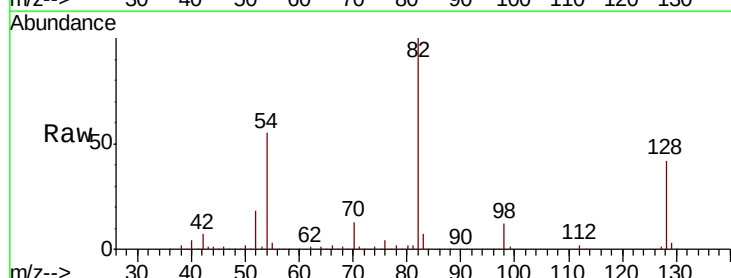
Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

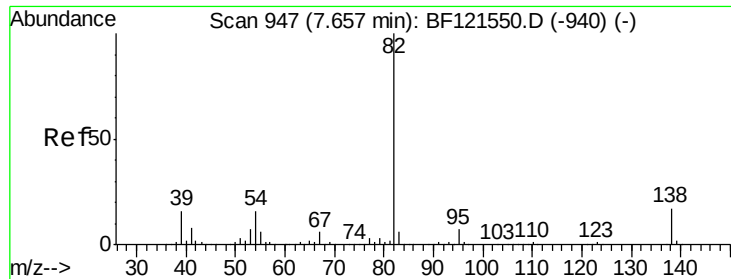
Tot Ion:136	Resp:	739898	
Ion Ratio	Lower	Upper	
136 100			
137 11.2	9.0	13.6	
54 10.1	7.6	11.4	
68 7.5	5.7	8.5	



#23
Nitrobenzene-d5
Concen: 31.728 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt	Ion: 82	Resp:	437232
Ion	Ratio	Lower	Upper
82	100		
128	41.6	35.1	52.7
54	54.9	43.0	64.6

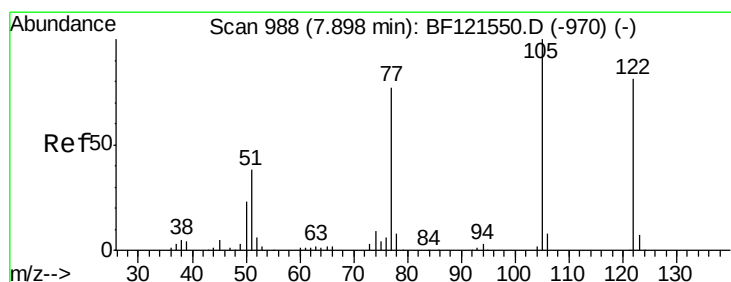
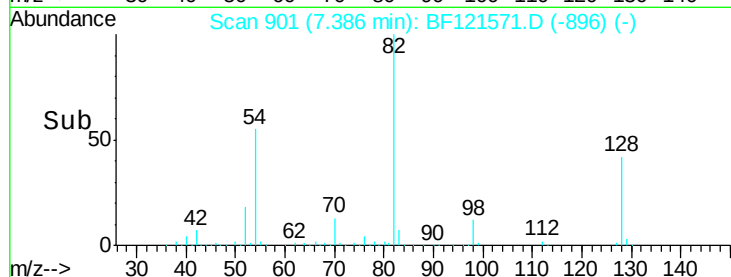
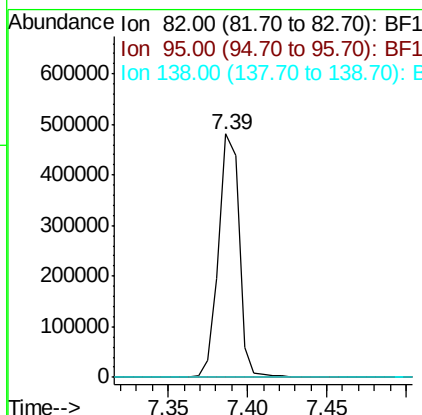
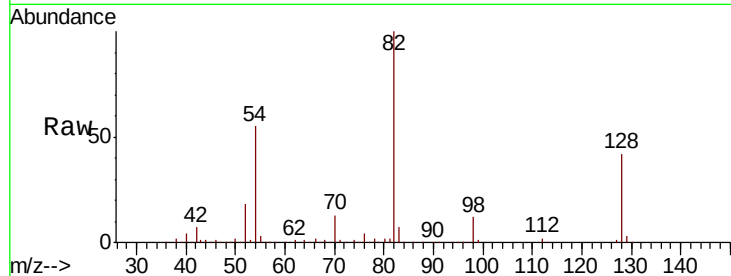




#25
Isophorone
Concen: 15.761 ng
RT: 7.39 min Scan# 901
Delta R.T. -0.27 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

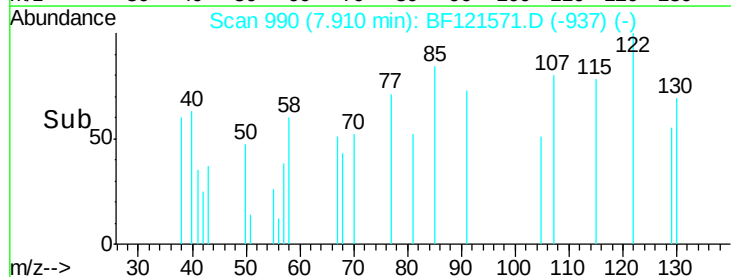
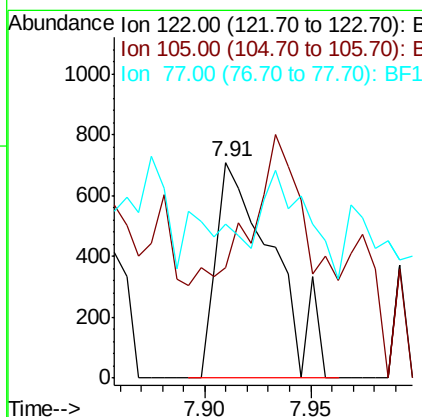
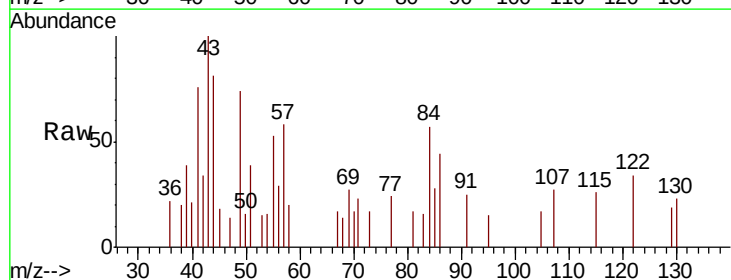
Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

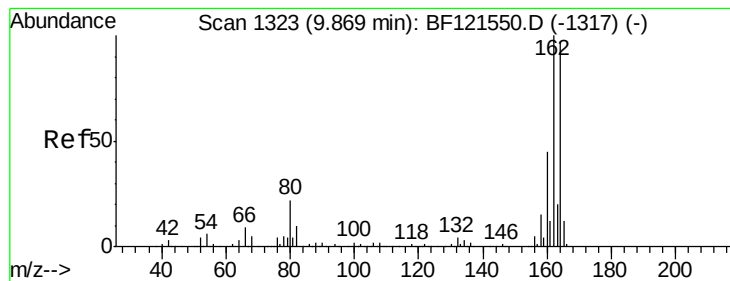
Tot Ion: 82 Resp: 437223
Ion Ratio Lower Upper
82 100
95 0.1 5.3 7.9#
138 0.0 13.7 20.5#



#32
Benzoic acid
Concen: 7.058 ng
RT: 7.91 min Scan# 990
Delta R.T. 0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion: 122 Resp: 1321
Ion Ratio Lower Upper
122 100
105 51.4 100.5 140.5#
77 71.3 72.6 112.6#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

Instrument :

BNA_F

ClientSampleId :

B18-0-2RE

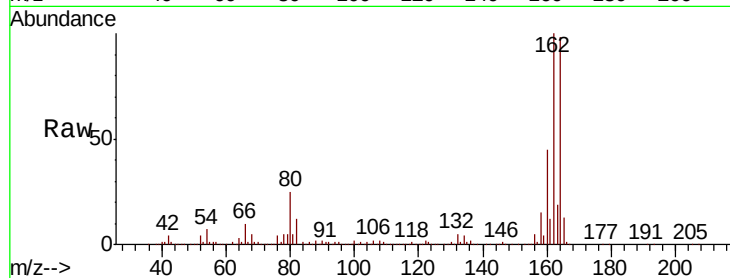
Tot Ion:164 Resp: 383256

Ion Ratio Lower Upper

164 100

162 102.2 82.3 123.5

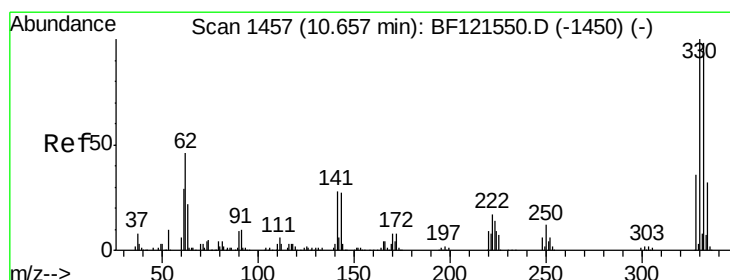
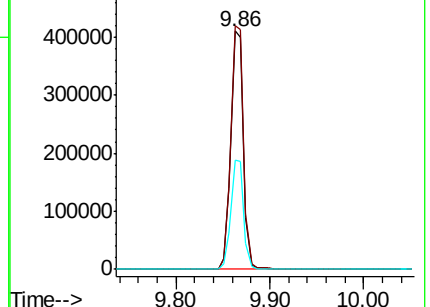
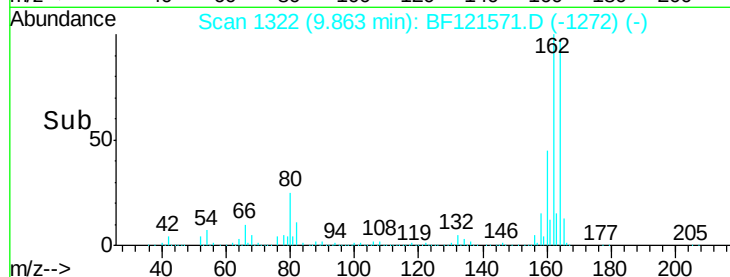
160 45.8 37.0 55.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 69.872 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.00 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

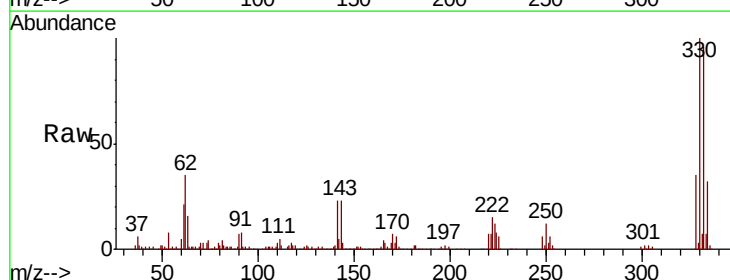
Tgt Ion:330 Resp: 332823

Ion Ratio Lower Upper

330 100

332 95.8 77.1 115.7

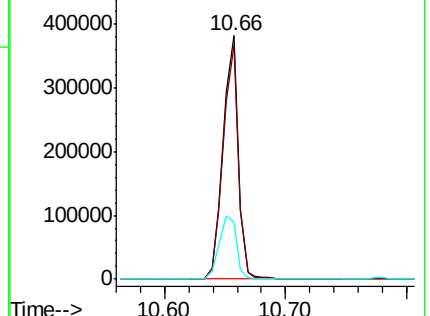
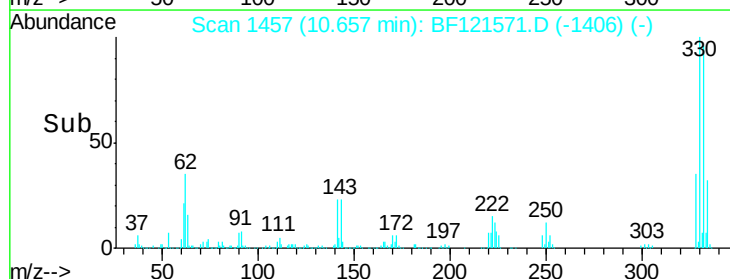
141 29.4 23.6 35.4

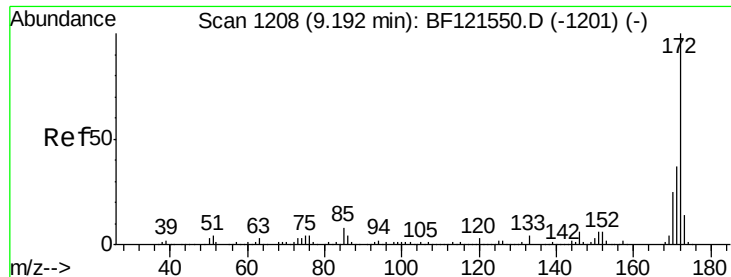


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

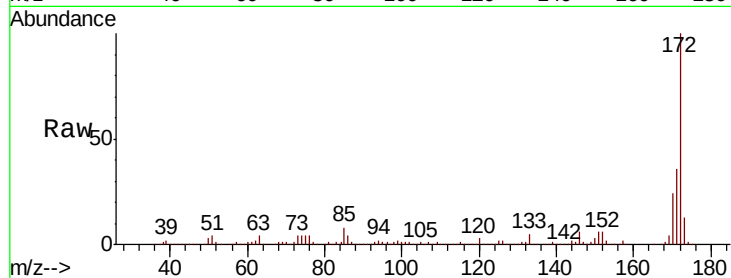




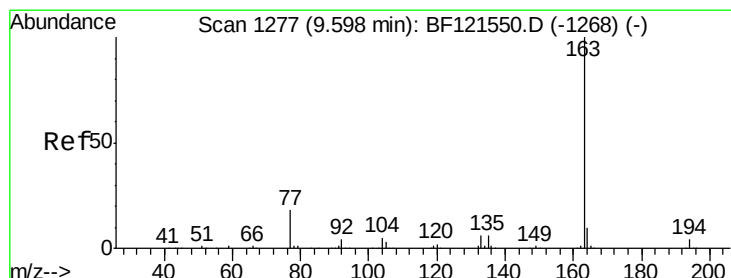
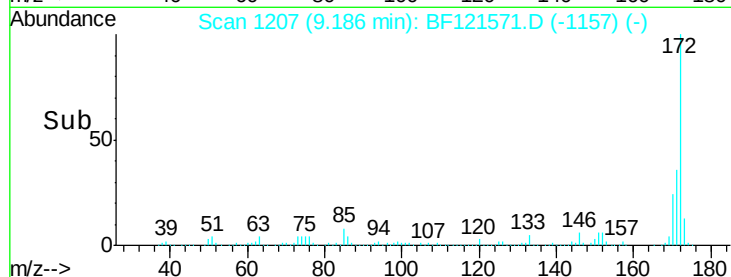
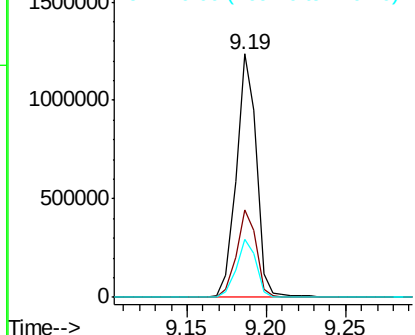
#45
2-Fluorobiphenyl
Concen: 43.050 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

Tot Ion:172 Resp: 1089396
Ion Ratio Lower Upper
172 100
171 36.1 29.8 44.6
170 24.0 19.8 29.8

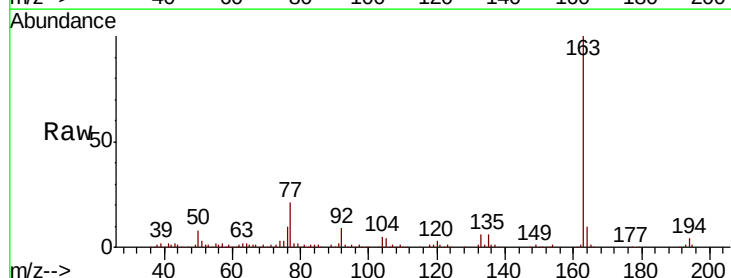


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

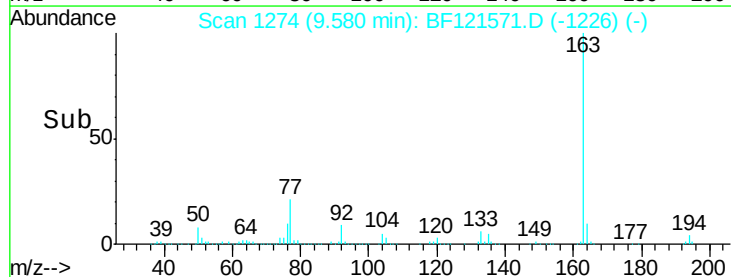
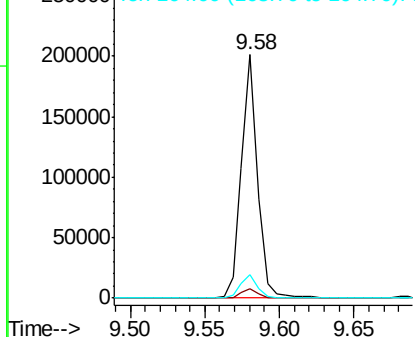


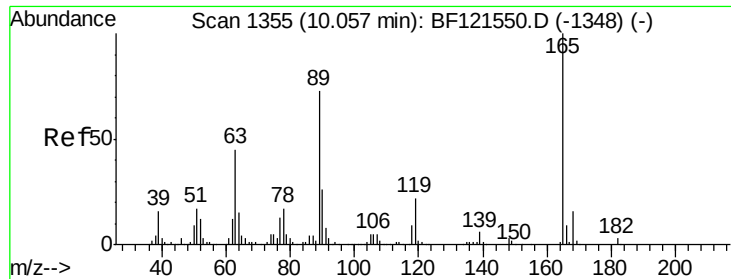
#50
Dimethylphthalate
Concen: 5.452 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:163 Resp: 151446
Ion Ratio Lower Upper
163 100
194 3.9 3.4 5.0
164 9.9 7.9 11.9



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

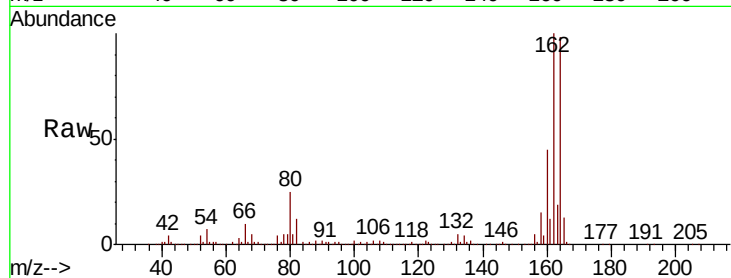




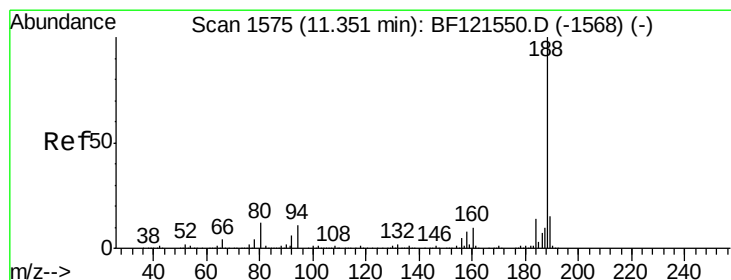
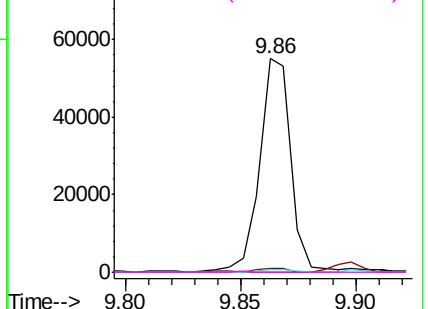
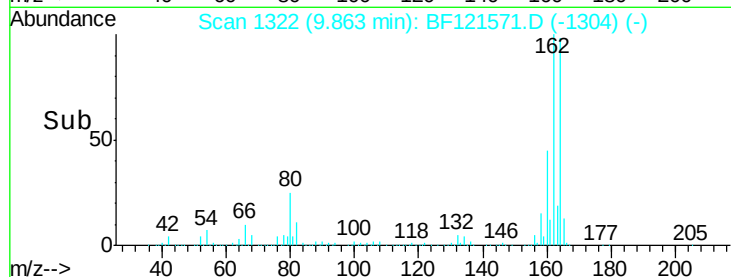
#57
 2,4-Dinitrotoluene
 Concen: 7.022 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.19 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

Instrument :
 BNA_F
 ClientSampleId :
 B18-0-2RE

Tot Ion:165 Resp: 52260
 Ion Ratio Lower Upper
 165 100
 63 1.7 36.2 54.4#
 89 1.4 58.2 87.4#
 182 0.0 2.2 3.2#

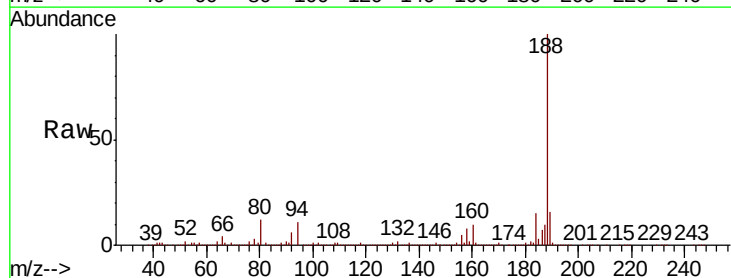


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

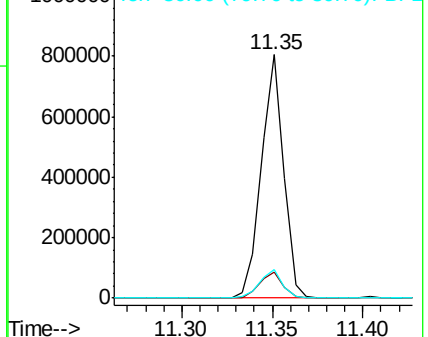
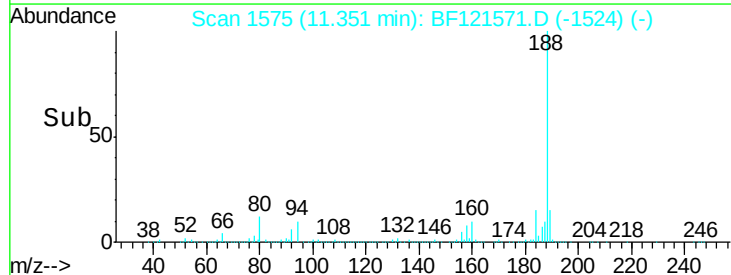


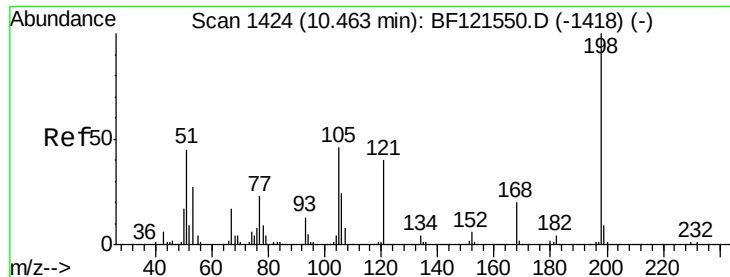
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

Tgt Ion:188 Resp: 687332
 Ion Ratio Lower Upper
 188 100
 94 10.5 8.7 13.1
 80 11.7 9.3 13.9



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 6.964 ng

RT: 10.37 min Scan# 1408

Delta R.T. -0.09 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

Instrument :

BNA_F

ClientSampleId :

B18-0-2RE

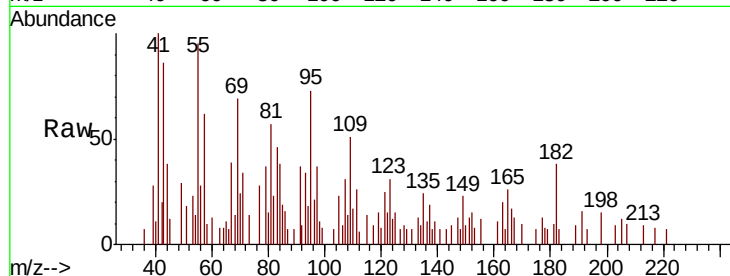
Tot Ion:198 Resp: 549

Ion Ratio Lower Upper

198 100

51 116.7 31.1 71.1#

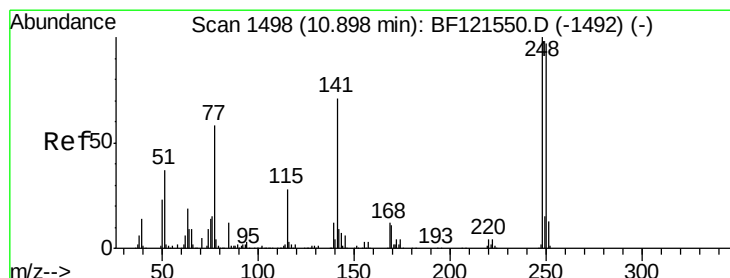
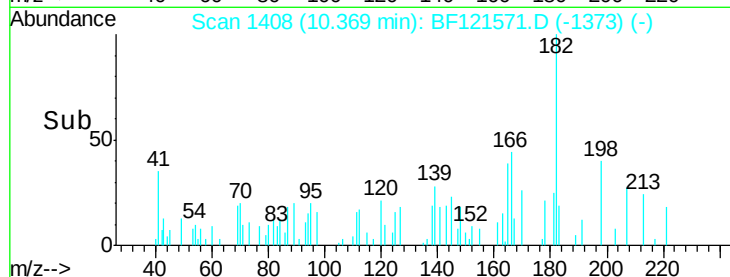
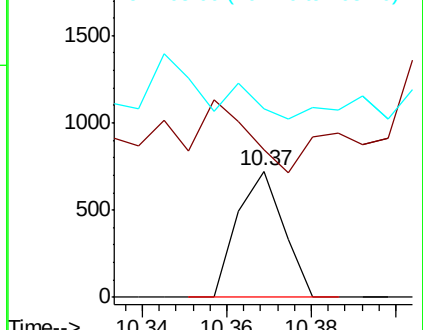
105 148.8 26.6 66.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 2.582 ng

RT: 10.66 min Scan# 1457

Delta R.T. -0.24 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

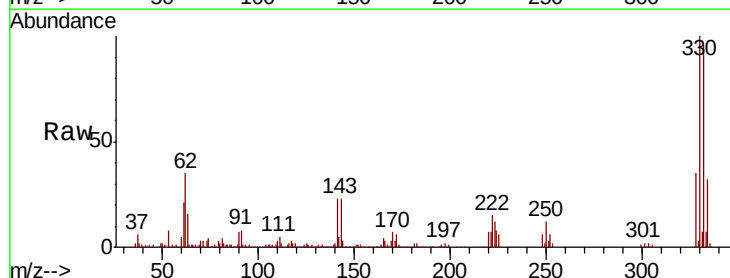
Tgt Ion:248 Resp: 20204

Ion Ratio Lower Upper

248 100

250 200.4 77.4 116.0#

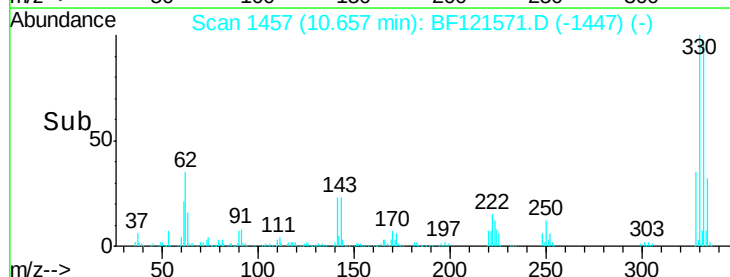
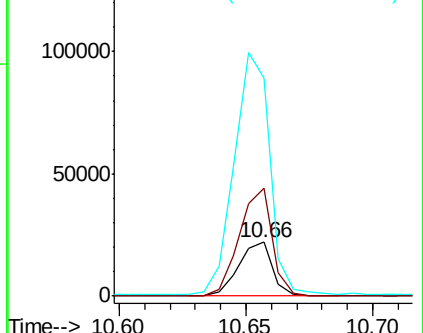
141 407.1 56.7 85.1#

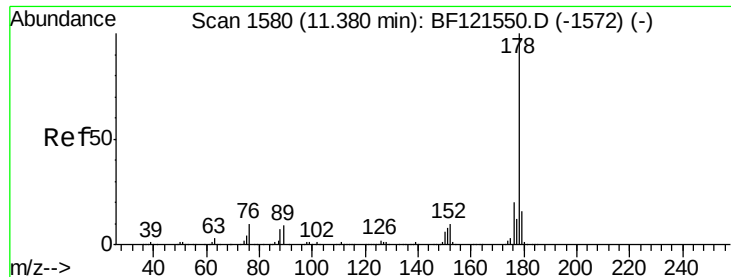


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

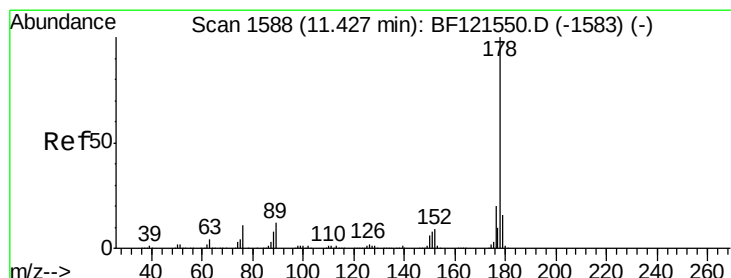
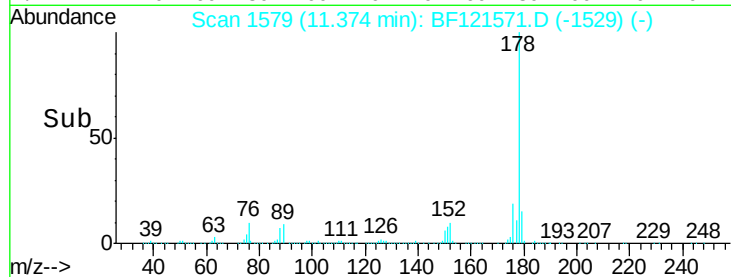
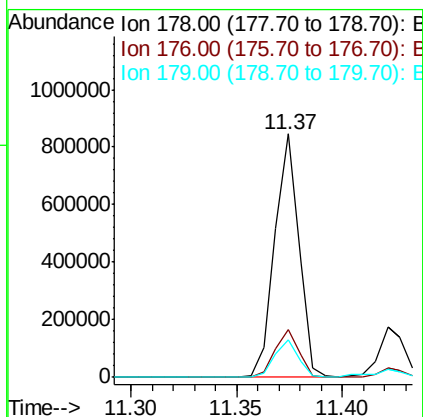
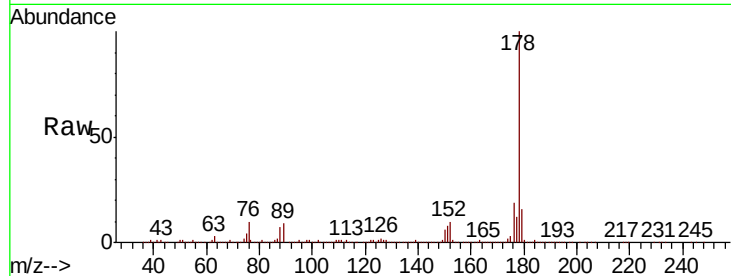




#71
Phenanthrene
Concen: 18.003 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

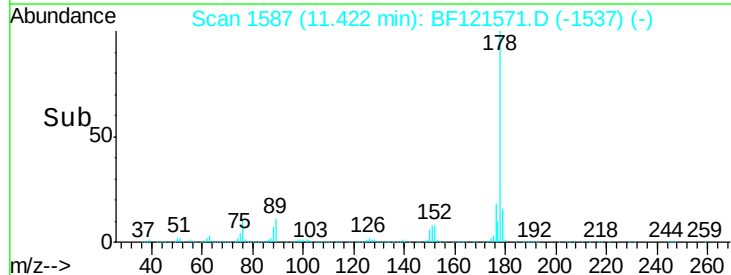
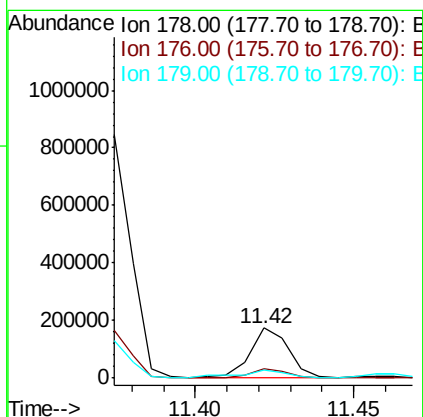
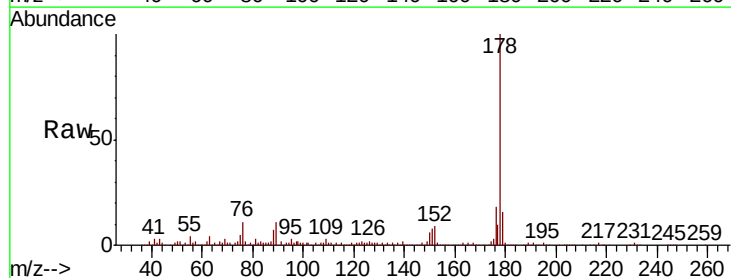
Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

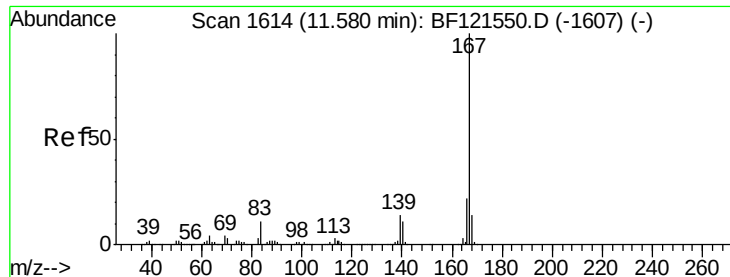
Tot Ion:178 Resp: 674187
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.6 12.6 19.0



#72
Anthracene
Concen: 3.676 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:178 Resp: 142055
Ion Ratio Lower Upper
178 100
176 18.0 15.7 23.5
179 16.0 12.8 19.2

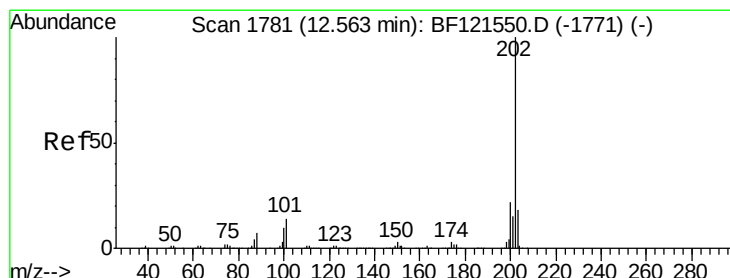
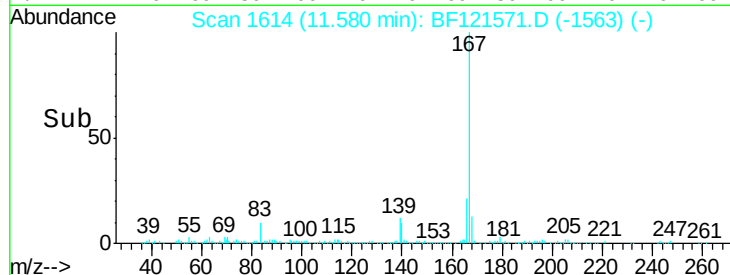
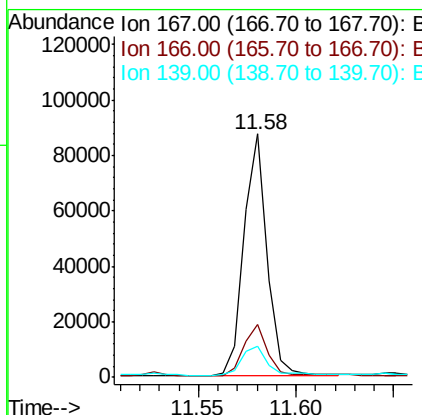
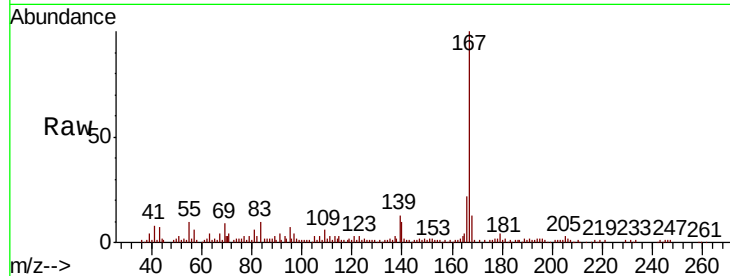




#73
 Carbazole
 Concen: 2.053 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.00 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

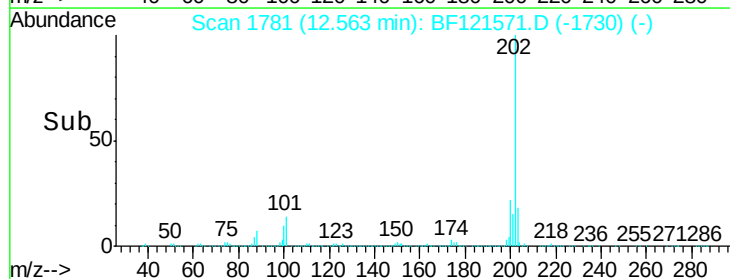
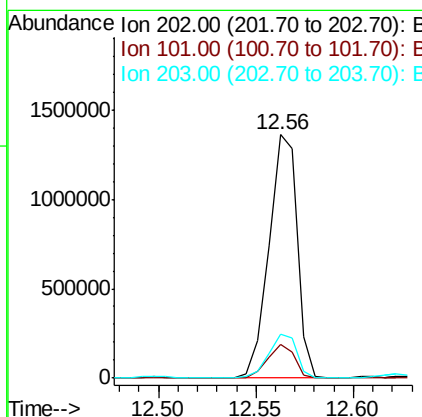
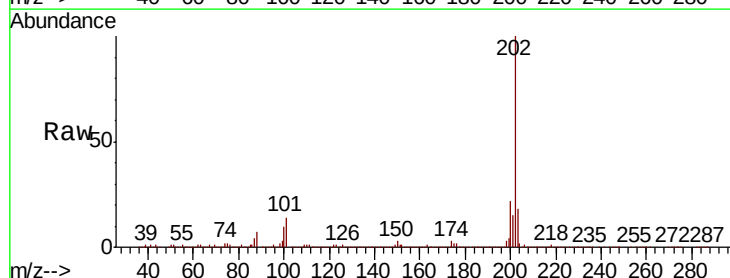
Instrument :
 BNA_F
 ClientSampleId :
 B18-0-2RE

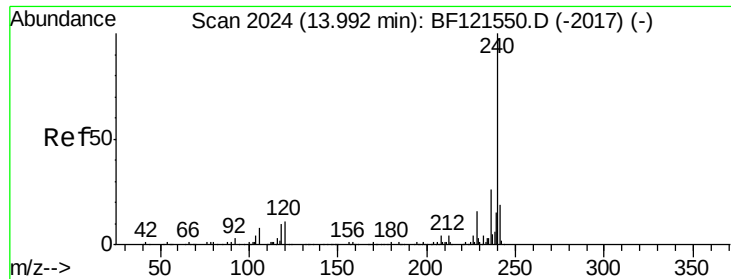
Tot Ion:167 Resp: 71590
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.9 26.9
 139 13.0 11.2 16.8



#75
 Fluoranthene
 Concen: 34.122 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. -0.00 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

Tgt Ion:202 Resp: 1364082
 Ion Ratio Lower Upper
 202 100
 101 14.0 0.0 34.0
 203 18.2 0.0 38.2

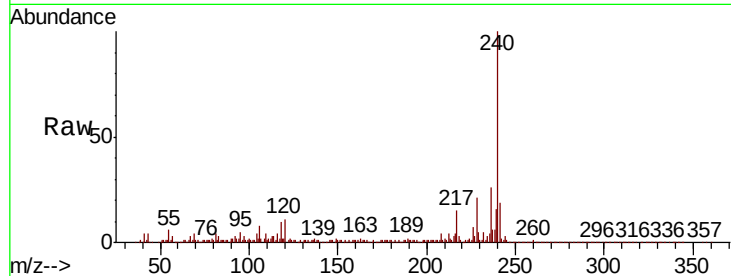




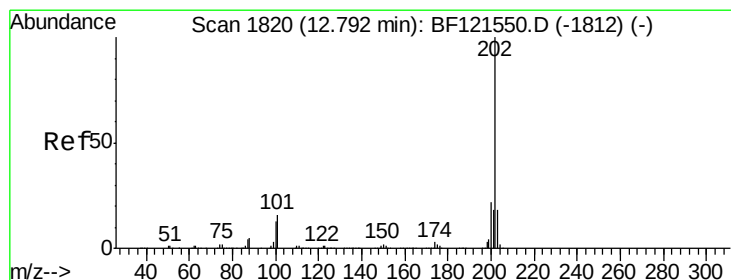
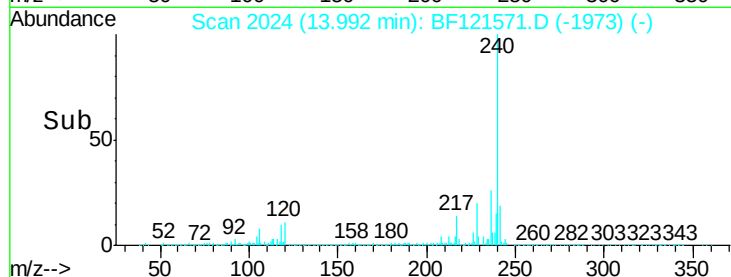
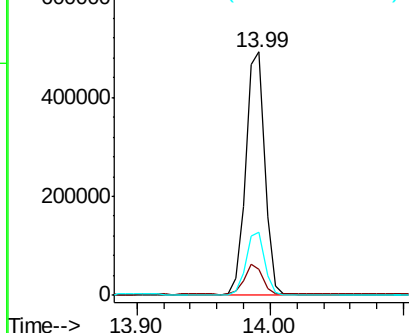
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2024
Delta R.T. -0.00 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

Tot Ion:240 Resp: 478693
Ion Ratio Lower Upper
240 100
120 10.9 9.2 13.8
236 26.2 20.5 30.7

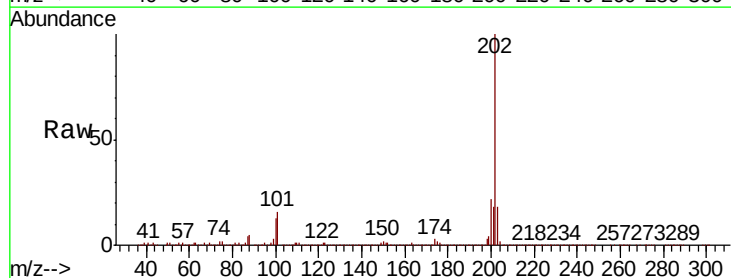


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

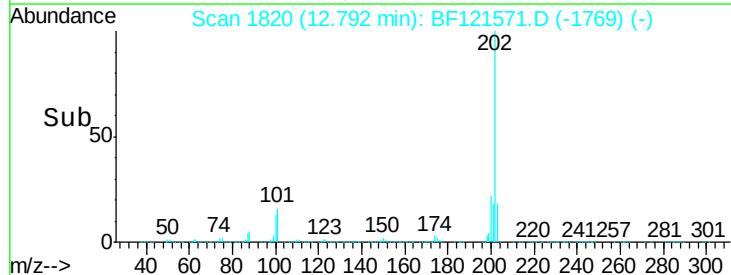
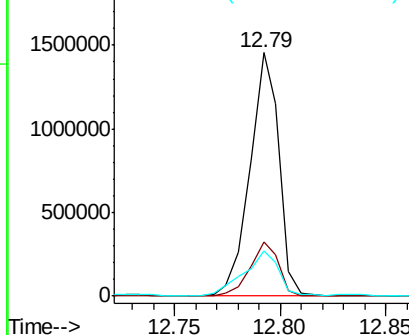


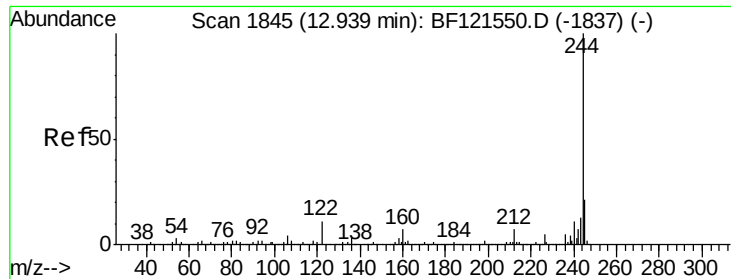
#78
Pyrene
Concen: 39.562 ng
RT: 12.79 min Scan# 1820
Delta R.T. -0.00 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:202 Resp: 1383667
Ion Ratio Lower Upper
202 100
200 22.1 17.8 26.8
203 18.3 14.6 22.0



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

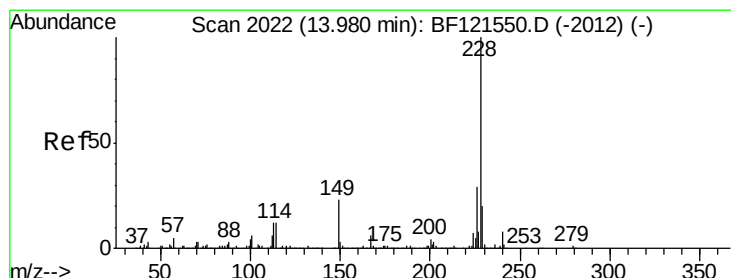
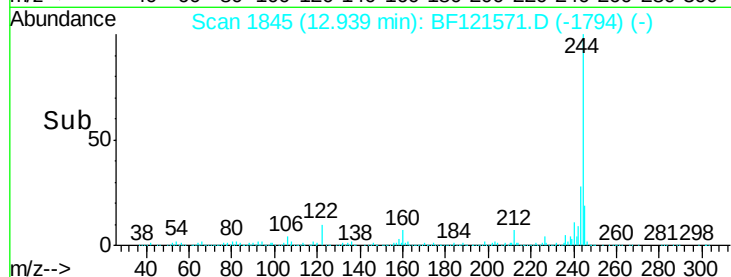
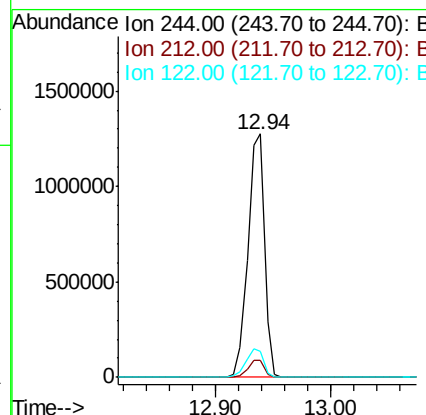
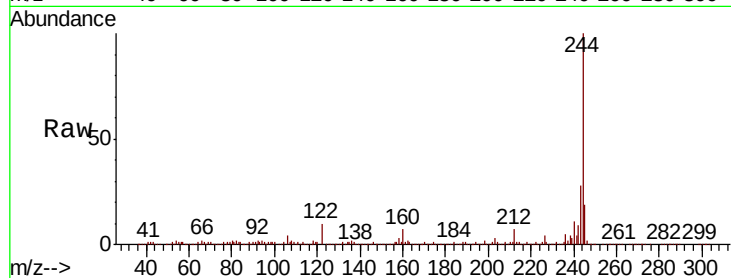




#79
 Terphenyl-d14
 Concen: 53.712 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

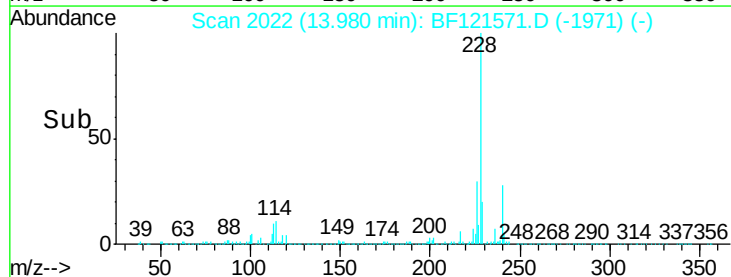
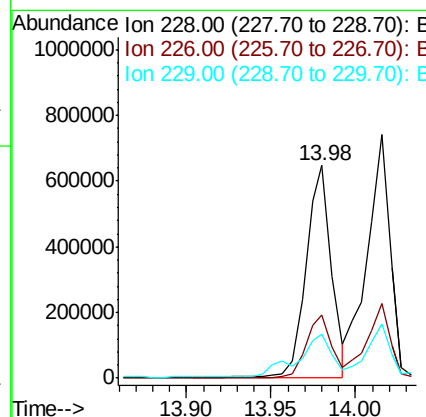
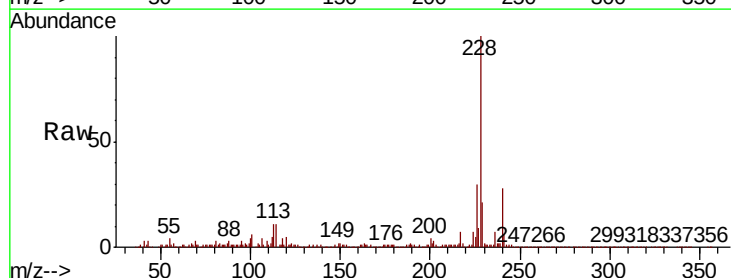
Instrument :
 BNA_F
 ClientSampleId :
 B18-0-2RE

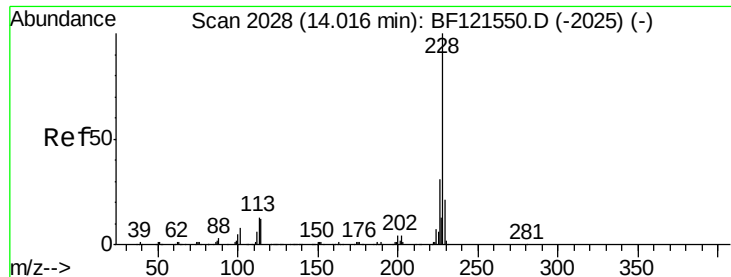
Tot Ion:244 Resp: 1269150
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.7 8.5
 122 10.5 8.7 13.1



#81
 Benzo(a)anthracene
 Concen: 22.235 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. -0.00 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

Tgt Ion:228 Resp: 673365
 Ion Ratio Lower Upper
 228 100
 226 29.9 22.9 34.3
 229 20.8 16.3 24.5





#83

Chrysene

Concen: 23.012 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

Instrument :

BNA_F

ClientSampleId :

B18-0-2RE

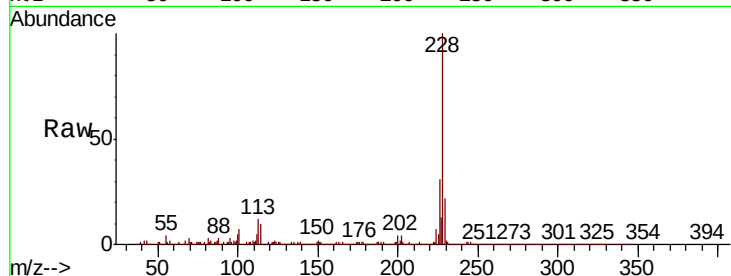
Tot Ion:228 Resp: 705701

Ion Ratio Lower Upper

228 100

226 30.8 25.1 37.7

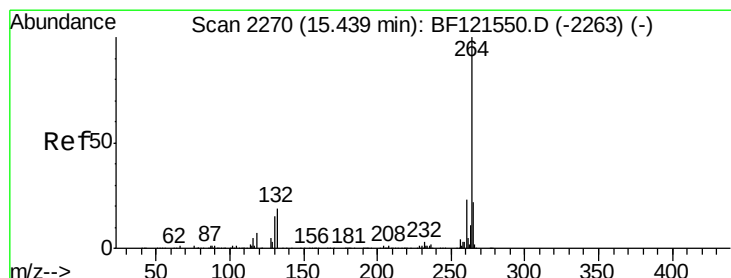
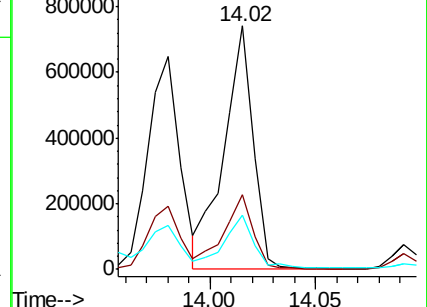
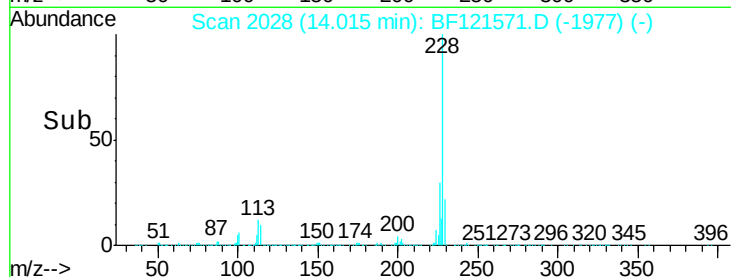
229 22.4 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.01 min

Lab File: BF121571.D

Acq: 15 Sep 2020 11:30

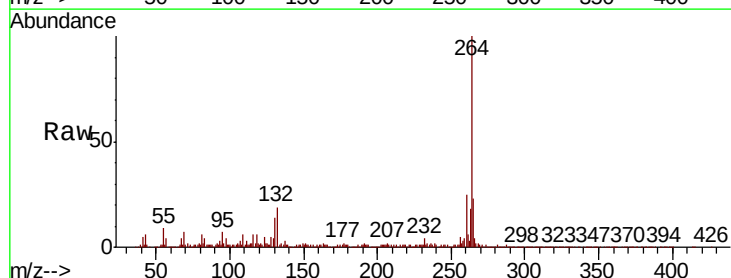
Tgt Ion:264 Resp: 489521

Ion Ratio Lower Upper

264 100

260 24.6 18.8 28.2

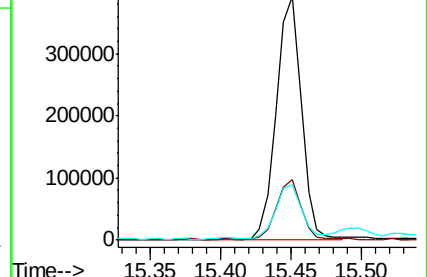
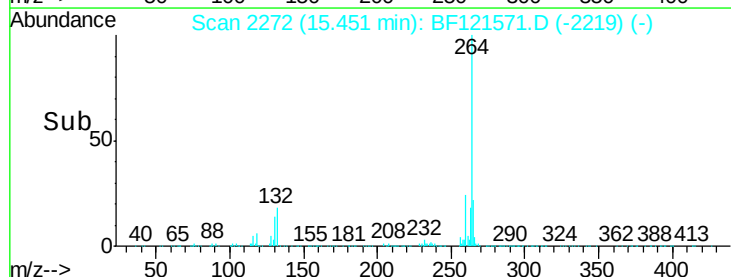
265 22.7 17.8 26.6

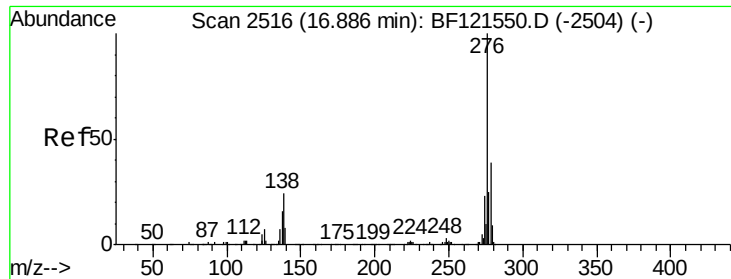


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

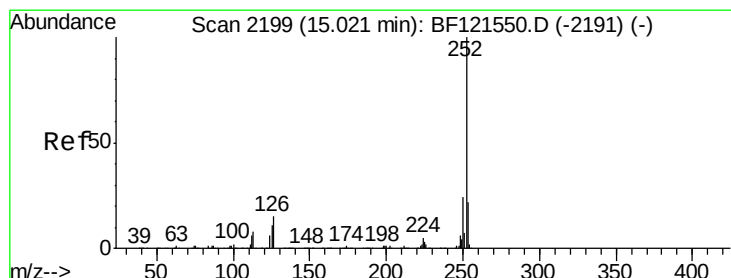
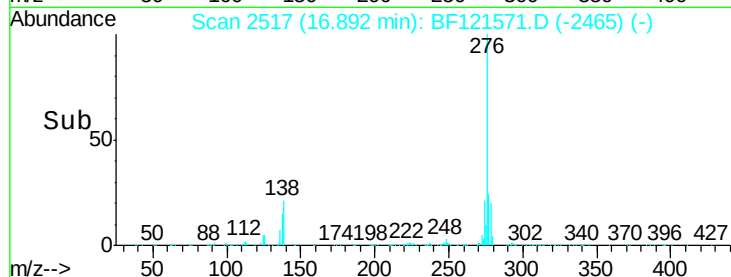
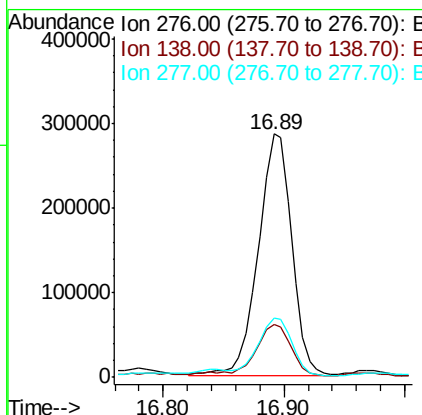
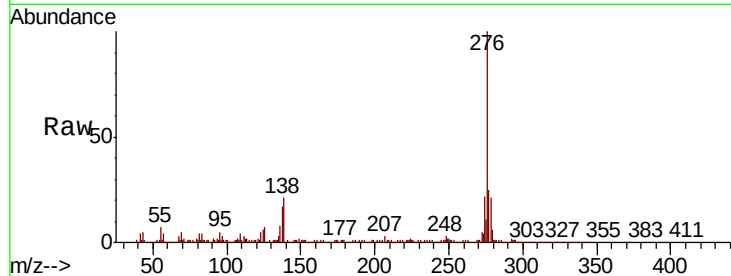




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 17.233 ng
 RT: 16.89 min Scan# 2517
 Delta R.T. 0.01 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

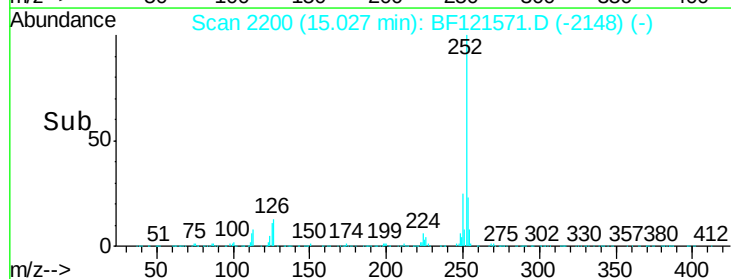
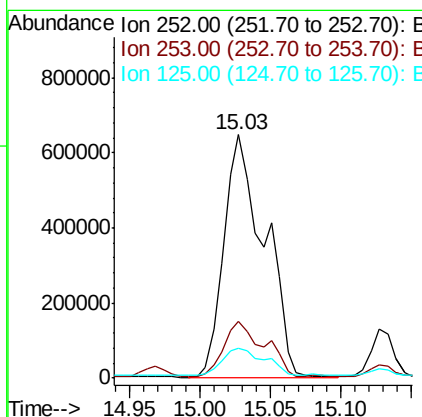
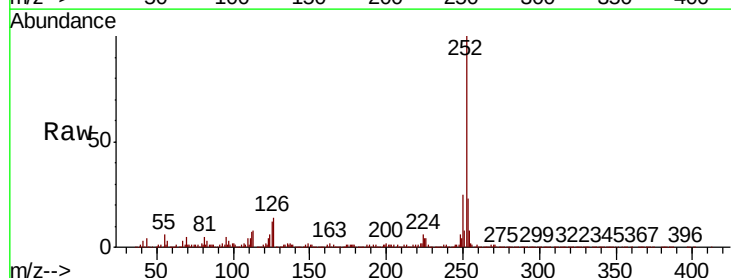
Instrument :
 BNA_F
 ClientSampleId :
 B18-0-2RE

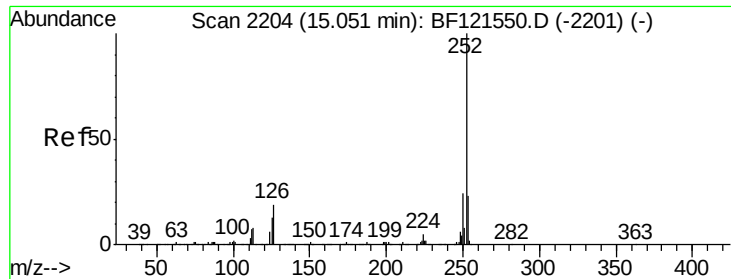
Tot	Ion:276	Resp:	549381
Ion	Ratio	Lower	Upper
276	100		
138	22.3	20.6	31.0
277	24.3	20.2	30.4



#88
 Benzo(b)fluoranthene
 Concen: 39.682 ng
 RT: 15.03 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BF121571.D
 Acq: 15 Sep 2020 11:30

Tgt	Ion:252	Resp:	1298608
Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.5	9.2	13.8

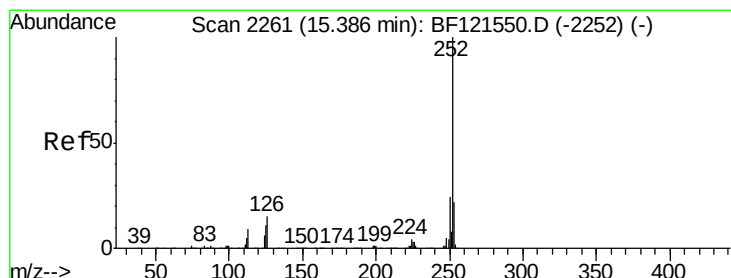
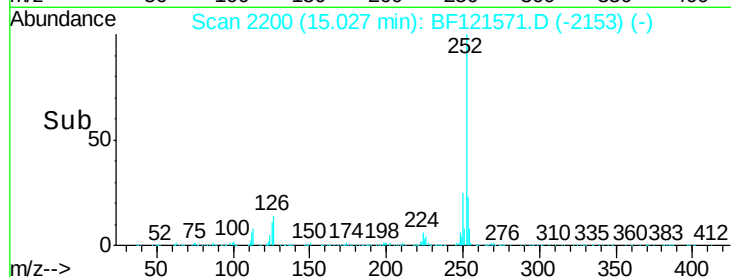
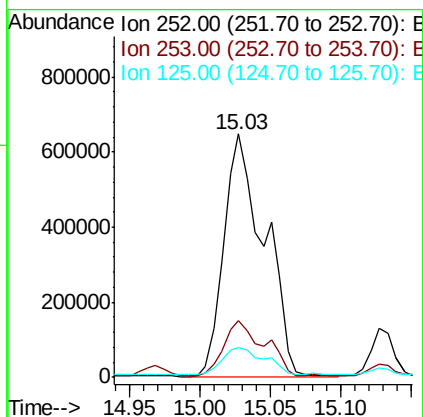
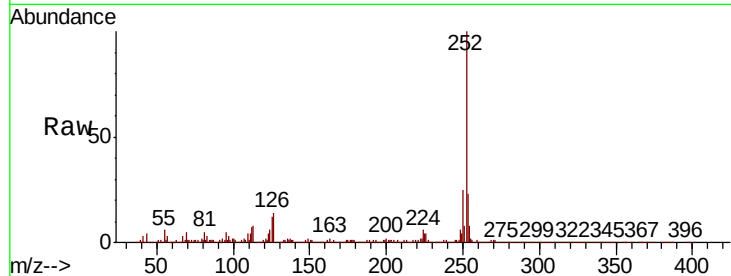




#89
Benzo(k)fluoranthene
Concen: 43.334 ng
RT: 15.03 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

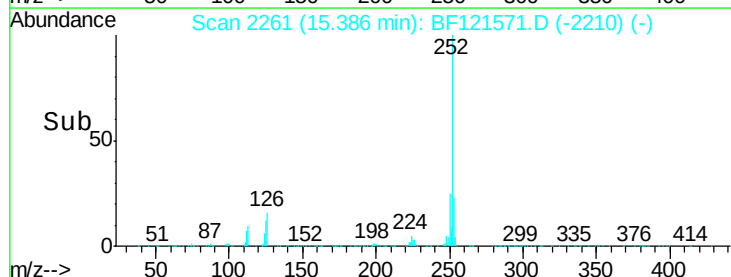
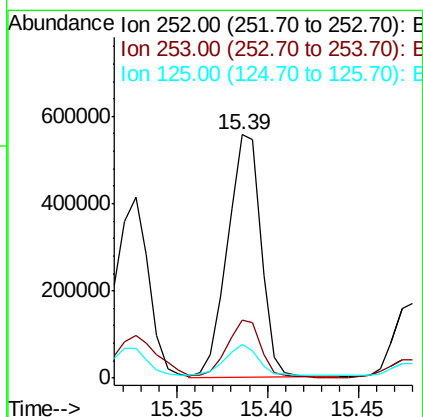
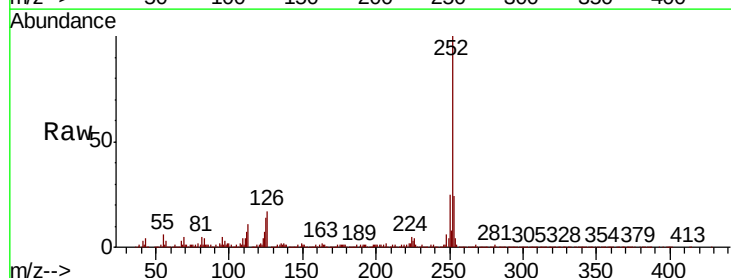
Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

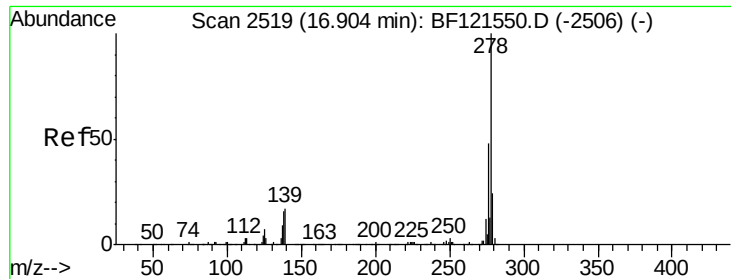
Tot Ion:252 Resp: 1298608
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.8
125 12.5 9.8 14.6



#90
Benzo(a)pyrene
Concen: 25.704 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.00 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:252 Resp: 715019
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 13.6 9.0 13.4#

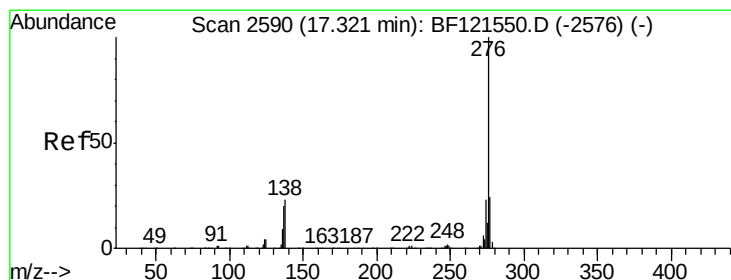
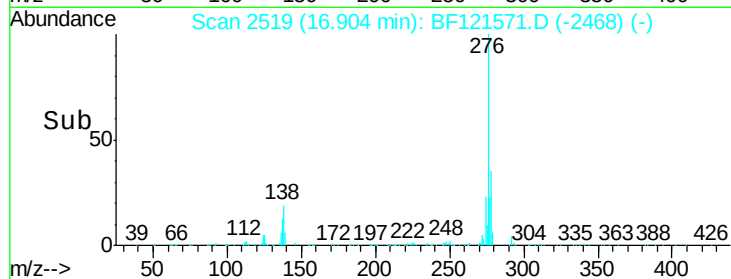
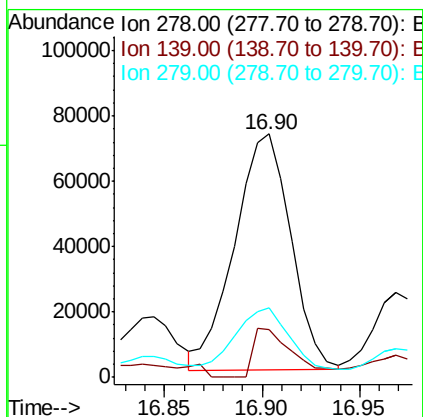
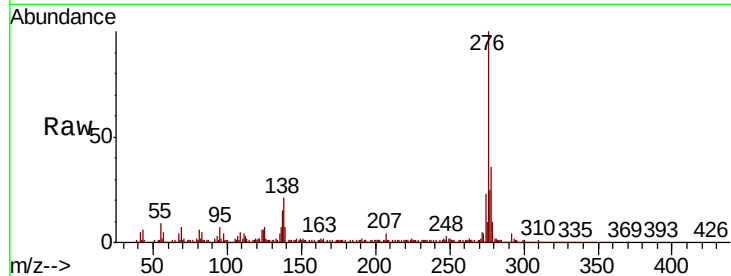




#91
Dibenzo(a,h)anthracene
Concen: 5.423 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.00 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Instrument :
BNA_F
ClientSampleId :
B18-0-2RE

Tot Ion:278 Resp: 143908
Ion Ratio Lower Upper
278 100
139 19.4 13.9 20.9
279 28.4 19.2 28.8



#92
Benzo(g,h,i)perylene
Concen: 20.263 ng
RT: 17.33 min Scan# 2592
Delta R.T. 0.01 min
Lab File: BF121571.D
Acq: 15 Sep 2020 11:30

Tgt Ion:276 Resp: 528581
Ion Ratio Lower Upper
276 100
277 22.9 19.4 29.0
138 22.4 18.7 28.1

