

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081320\
 Data File : BF121284.D
 Acq On : 13 Aug 2020 22:12
 Operator : JU/CG
 Sample : L3504-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-081120

Quant Time: Aug 14 00:47:24 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 13 15:23:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	107352	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	407534	20.00	ng	0.00
39) Acenaphthene-d10	9.75	164	207617	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	369406	20.00	ng	0.00
76) Chrysene-d12	13.87	240	242870	20.00	ng	0.00
86) Perylene-d12	15.29	264	260611	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	98534	13.92	ng	0.01
7) Phenol-d6	6.35	99	122592	13.44	ng	0.00
23) Nitrobenzene-d5	7.28	82	77235	10.36	ng	0.00
42) 2,4,6-Tribromophenol	10.54	330	29393	11.50	ng	0.00
45) 2-Fluorobiphenyl	9.07	172	164875	10.99	ng	0.00
79) Terphenyl-d14	12.82	244	145786	11.70	ng	0.00

Target Compounds

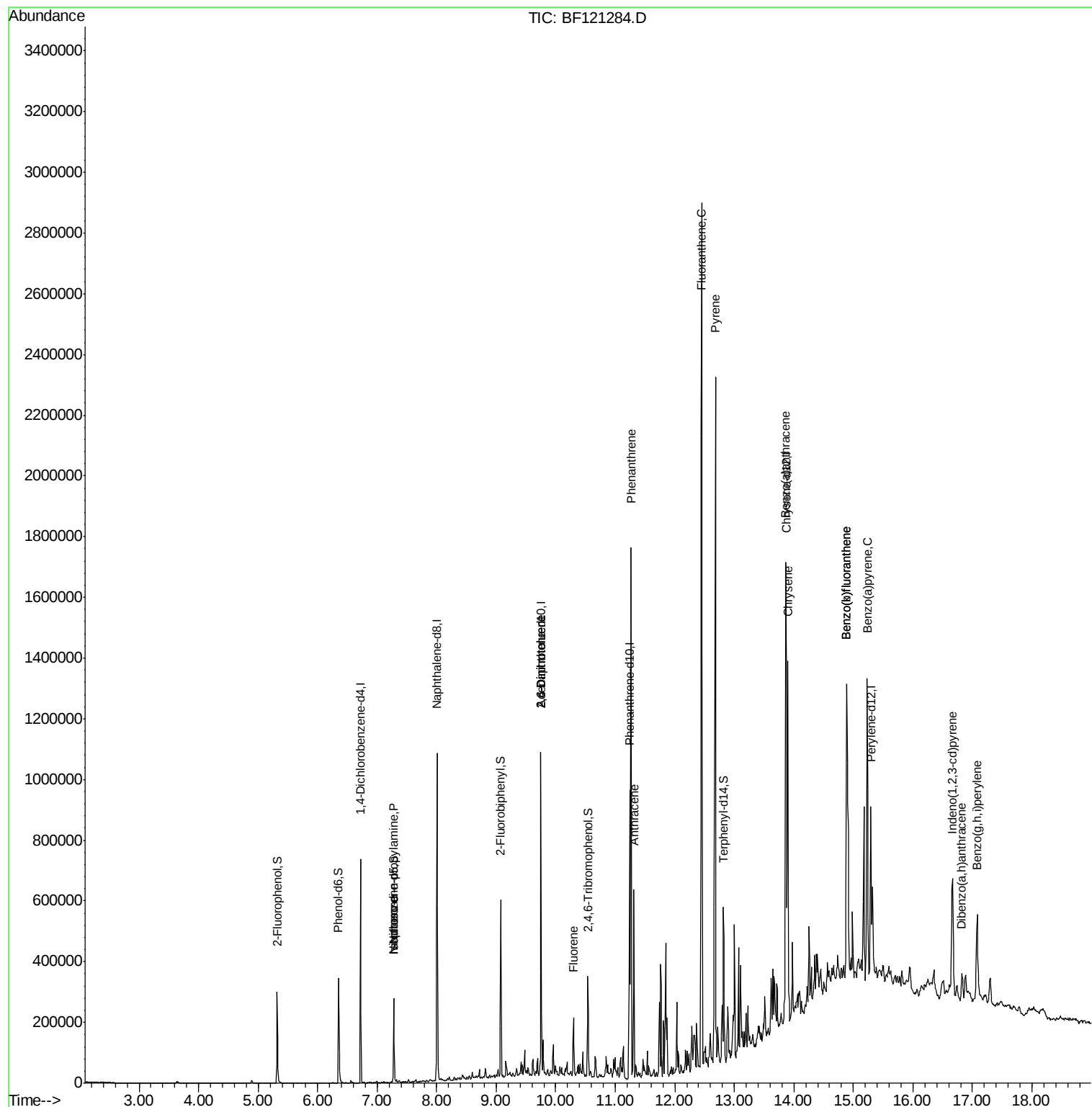
						Qvalue
19) n-Nitroso-di-n-propylamine	7.28	70	10552	2.081	ng	# 80
25) Isophorone	7.28	82	77233	5.159	ng	# 63
51) 2,6-Dinitrotoluene	9.75	165	27527	7.904	ng	# 26
57) 2,4-Dinitrotoluene	9.75	165	27527	6.023	ng	# 27
58) Fluorene	10.30	166	46208	2.952	ng	99
71) Phenanthrene	11.26	178	620672	29.369	ng	99
72) Anthracene	11.31	178	213776	10.080	ng	100
75) Fluoranthene	12.45	202	1146554	48.723	ng	99
78) Pyrene	12.68	202	1034997	57.227	ng	99
81) Benzo(a)anthracene	13.86	228	550588	33.424	ng	97
83) Chrysene	13.90	228	423150	25.160	ng	97
87) Indeno(1,2,3-cd)pyrene	16.66	276	261630	13.503	ng	96
88) Benzo(b)fluoranthene	14.89	252	761004	43.581	ng	# 98
89) Benzo(k)fluoranthene	14.89	252	761004	46.931	ng	99
90) Benzo(a)pyrene	15.23	252	435988	27.663	ng	100
91) Dibenzo(a,h)anthracene	16.83	278	57356	3.455	ng	92
92) Benzo(g,h,i)perylene	17.08	276	234523	14.314	ng	99

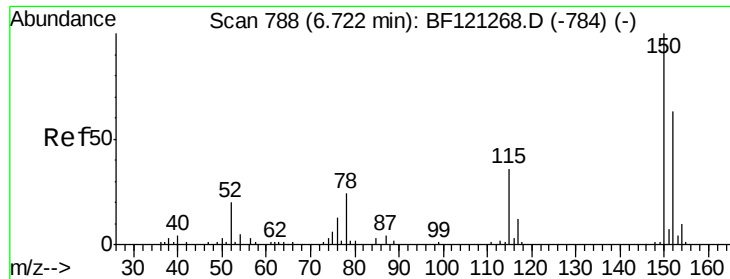
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.72 min Scan# 788

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

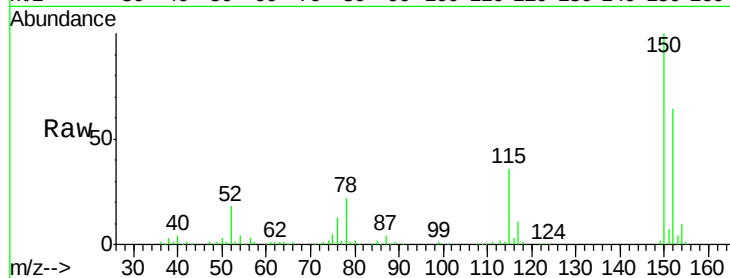
Tot Ion:152 Resp: 107352

Ion Ratio Lower Upper

152 100

150 155.0 129.0 193.6

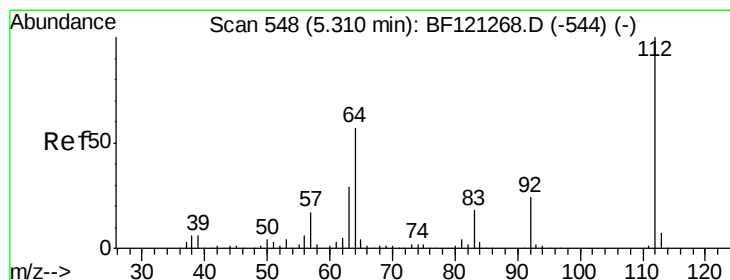
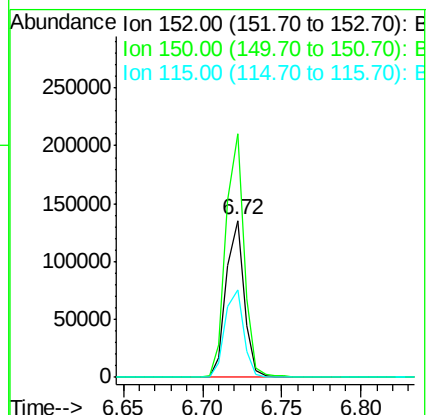
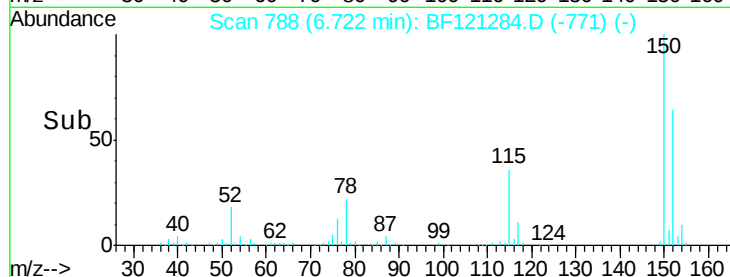
115 55.7 49.0 73.4



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: 13.915 ng

RT: 5.32 min Scan# 550

Delta R.T. 0.01 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

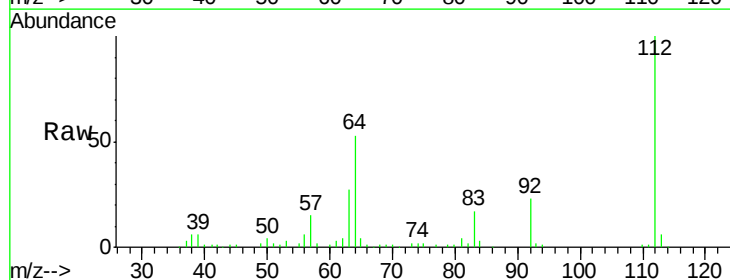
Tgt Ion:112 Resp: 98534

Ion Ratio Lower Upper

112 100

64 53.3 45.4 68.2

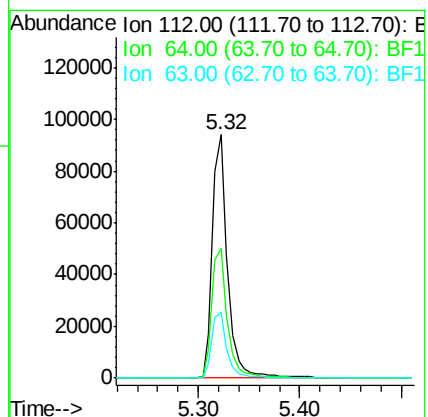
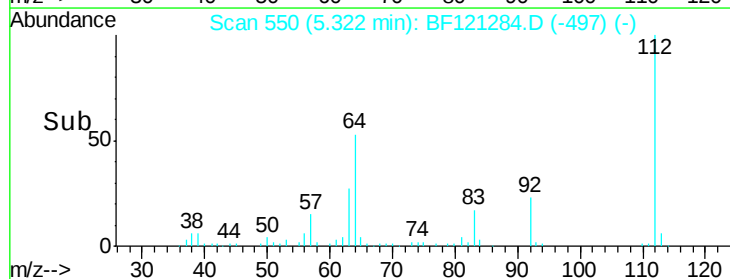
63 26.8 23.0 34.6

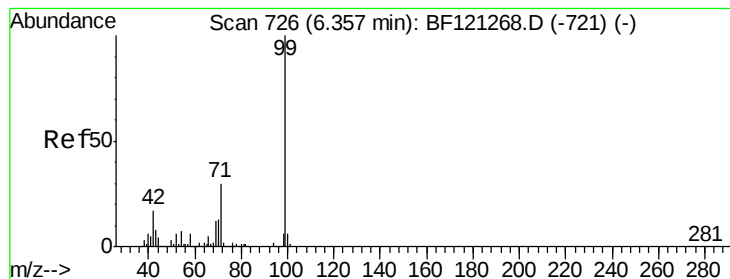


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 13.435 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

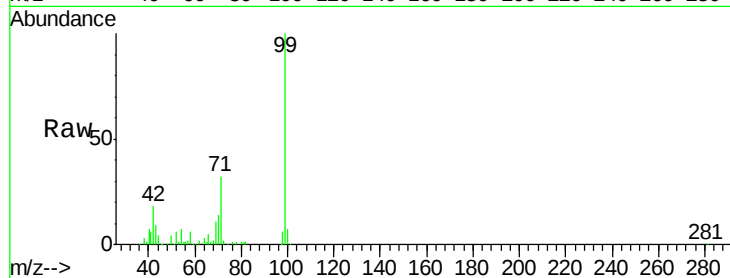
Tot Ion: 99 Resp: 122592

Ion Ratio Lower Upper

99 100

42 18.4 13.1 19.7

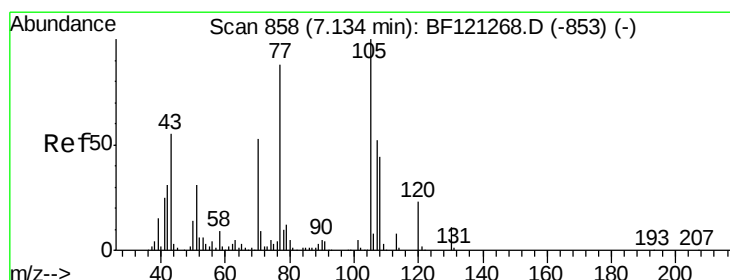
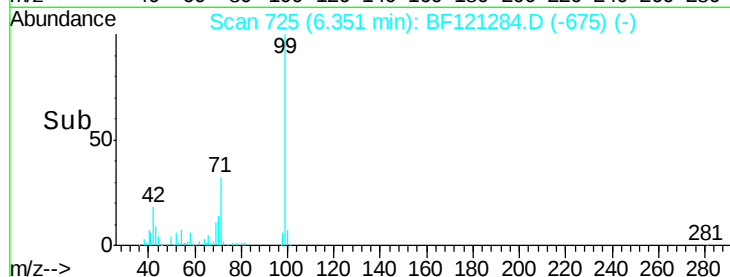
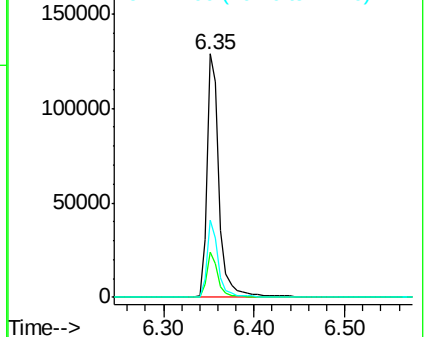
71 31.6 23.7 35.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.081 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.15 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Tgt Ion: 70 Resp: 10552

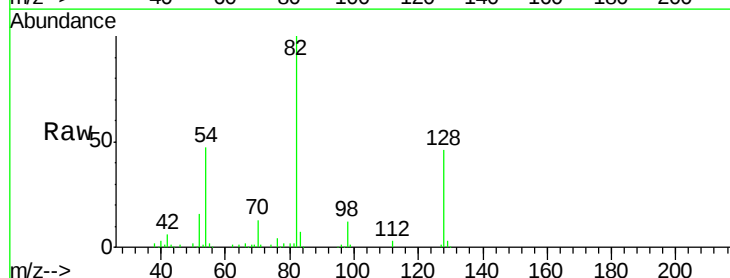
Ion Ratio Lower Upper

70 100

42 49.0 45.6 68.4

101 0.0 7.8 11.8#

130 2.7 18.2 27.2#

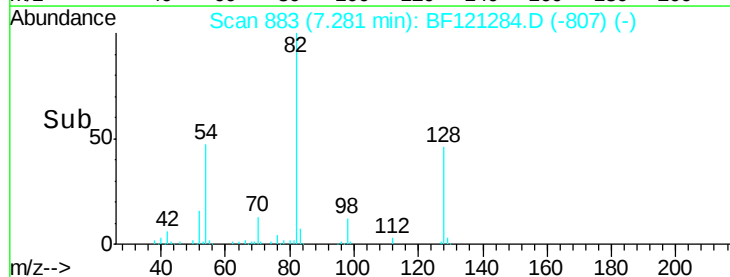
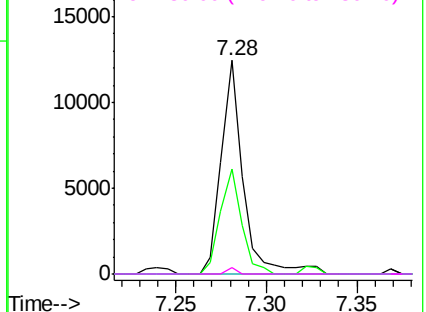


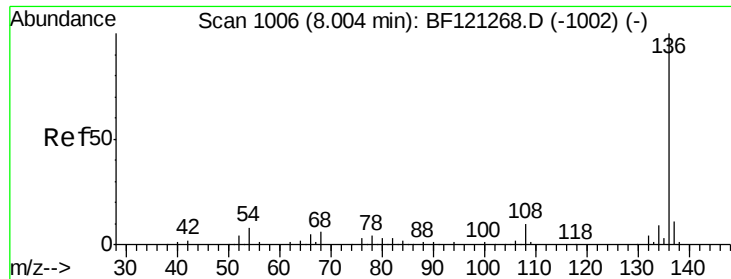
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

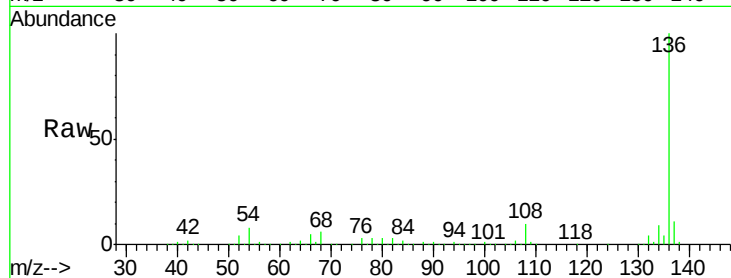




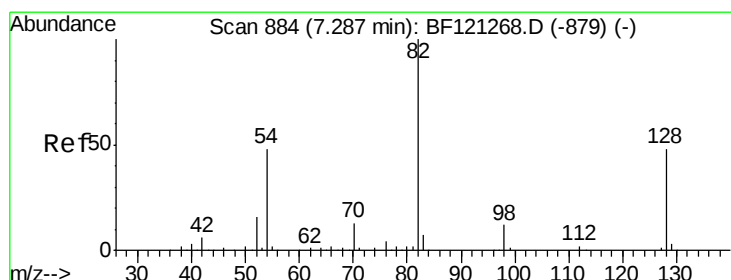
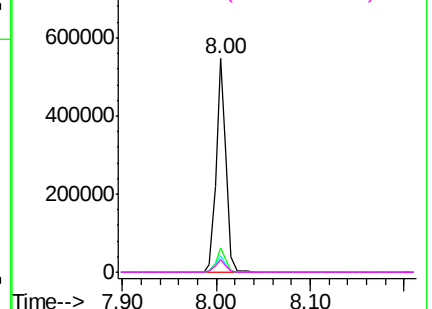
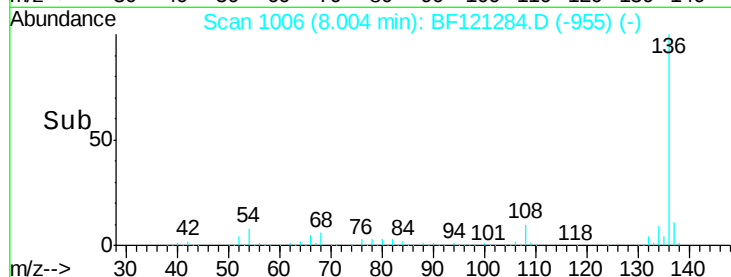
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1006
Delta R.T. 0.00 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Instrument :
BNA_F
ClientSampleId :
EO-02-081120

Tot Ion:136 Resp: 407534
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 7.7 5.3 7.9
68 6.1 4.2 6.2

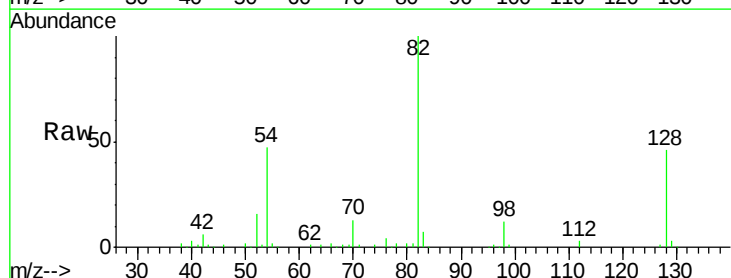


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

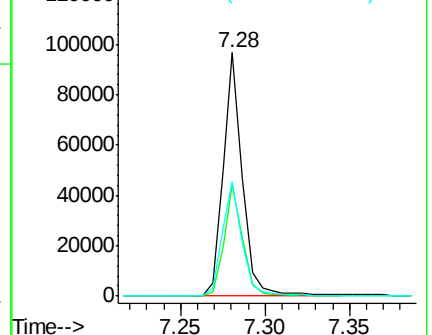
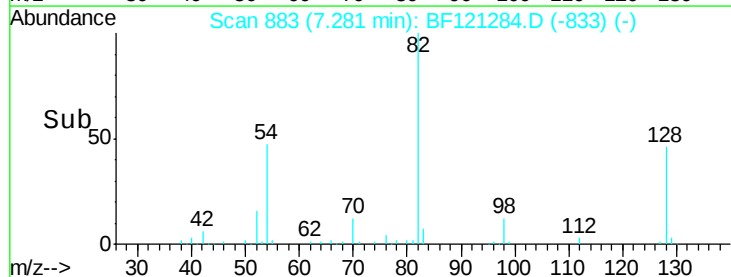


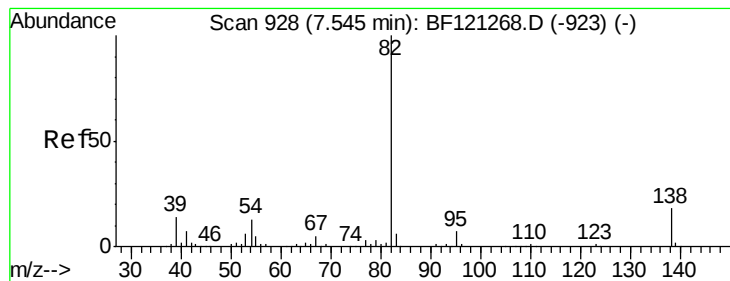
#23
Nitrobenzene-d5
Concen: 10.358 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Tgt Ion: 82 Resp: 77235
Ion Ratio Lower Upper
82 100
128 45.9 39.8 59.8
54 47.2 37.7 56.5



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 5.159 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

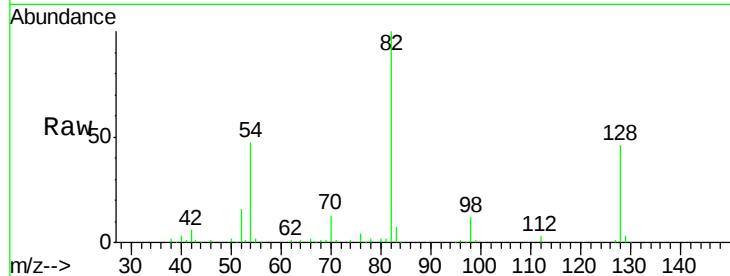
Tot Ion: 82 Resp: 77233

Ion Ratio Lower Upper

82 100

95 0.3 5.2 7.8#

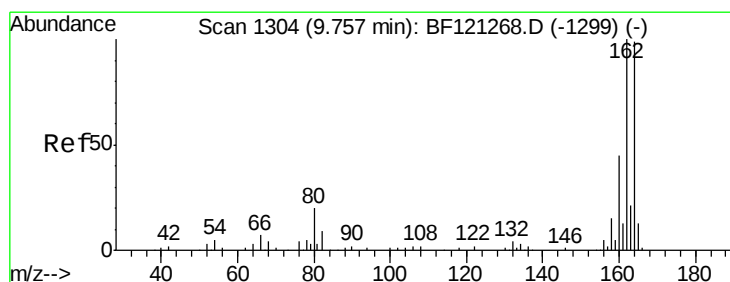
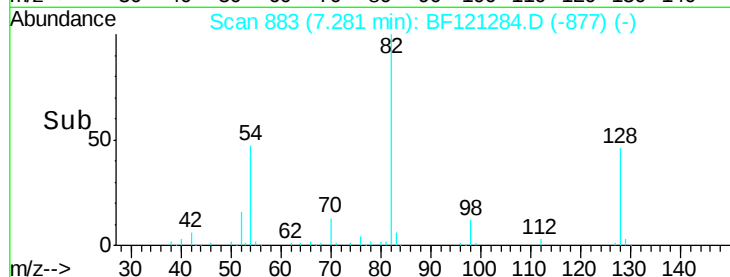
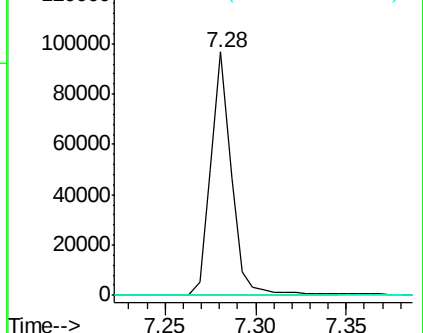
138 0.0 16.0 24.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

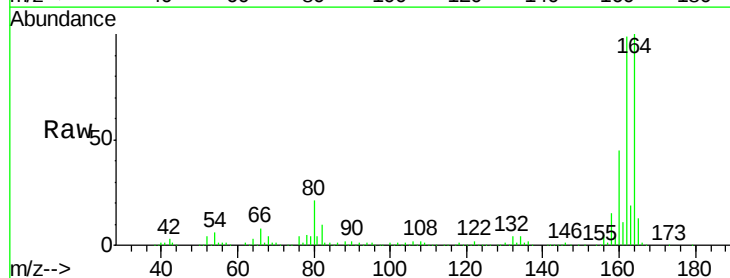
Tgt Ion: 164 Resp: 207617

Ion Ratio Lower Upper

164 100

162 99.0 81.2 121.8

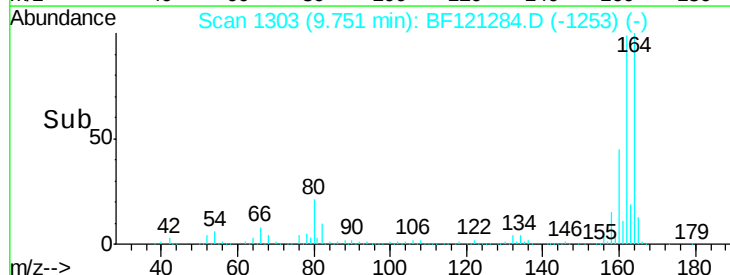
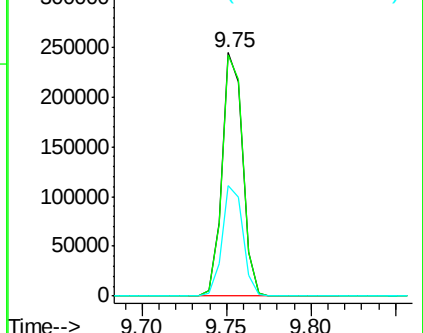
160 45.5 36.9 55.3

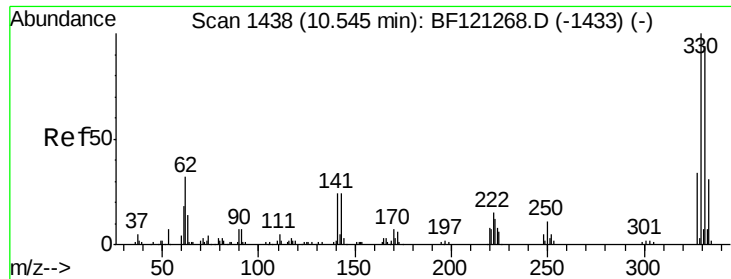


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

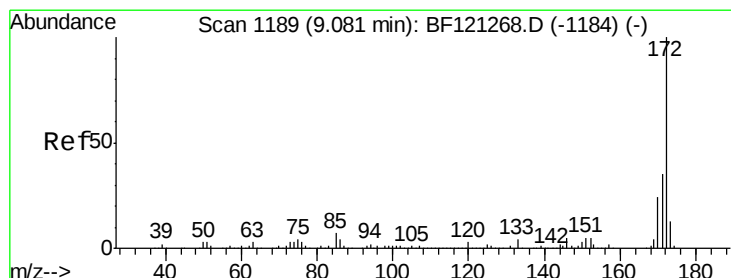
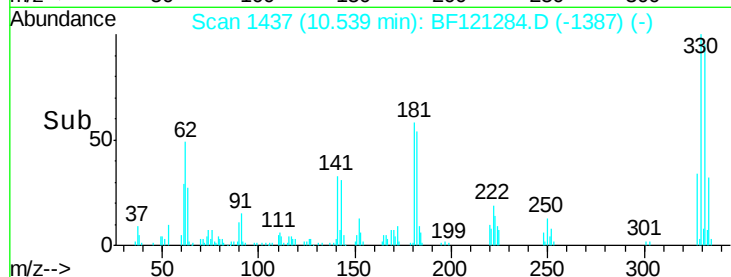
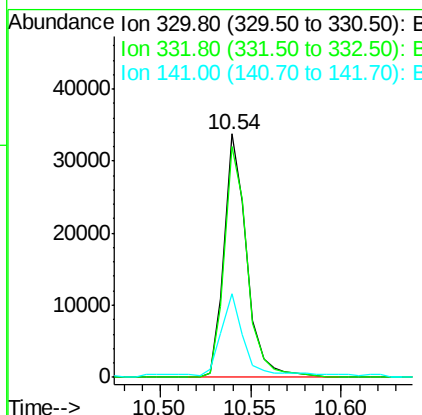
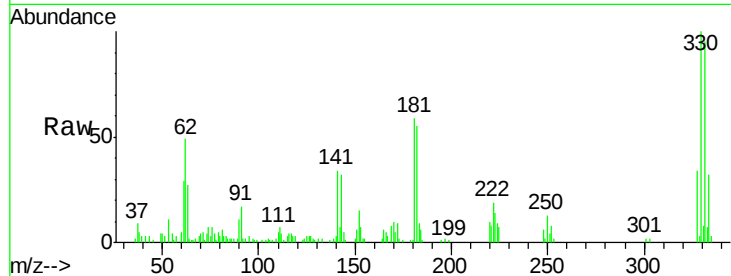




#42
 2,4,6-Tribromophenol
 Concen: 11.499 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF121284.D
 Acq: 13 Aug 2020 22:12

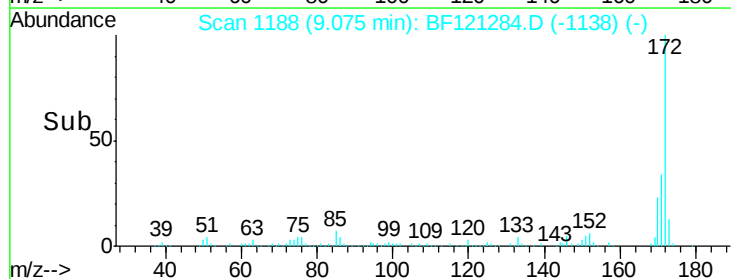
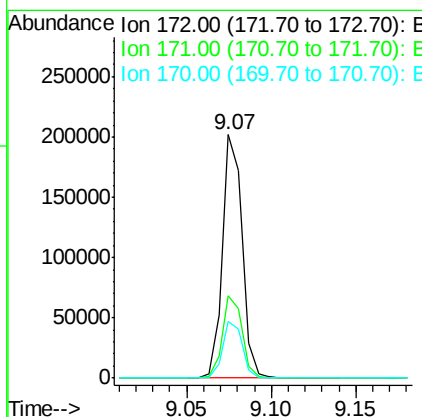
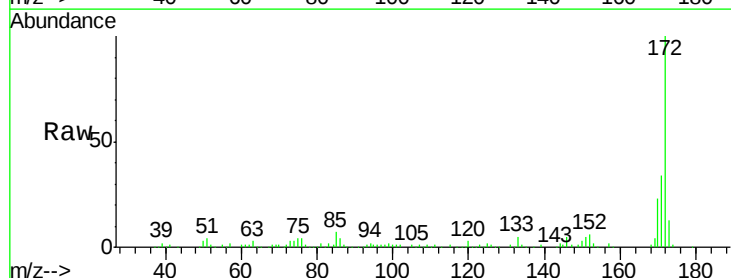
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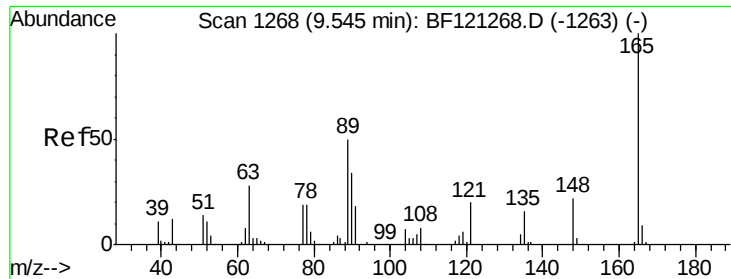
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.4	113.0
141	34.4	23.4	35.2



#45
 2-Fluorobiphenyl
 Concen: 10.985 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF121284.D
 Acq: 13 Aug 2020 22:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.3	42.5
170	23.5	19.3	28.9

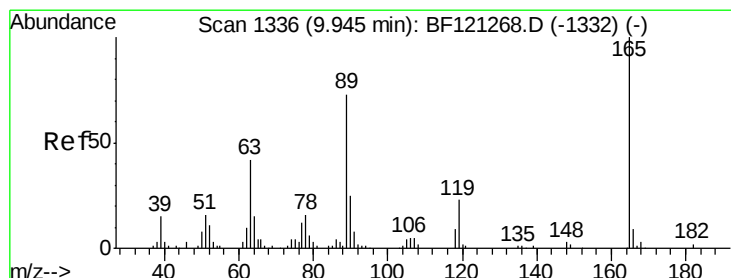
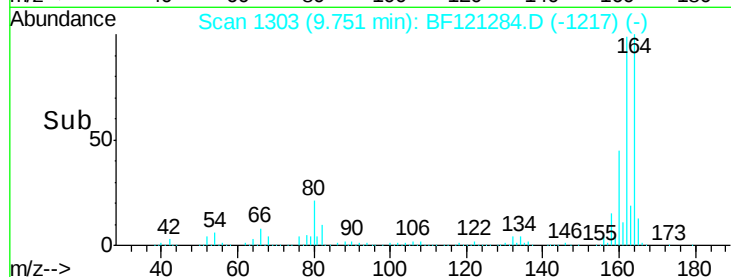
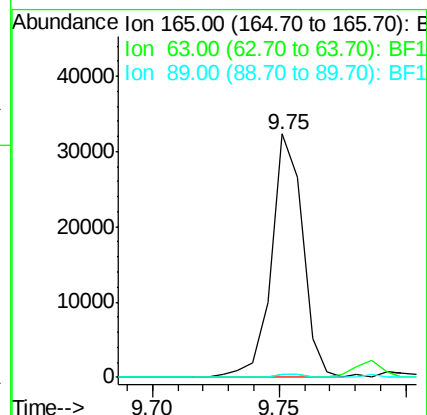
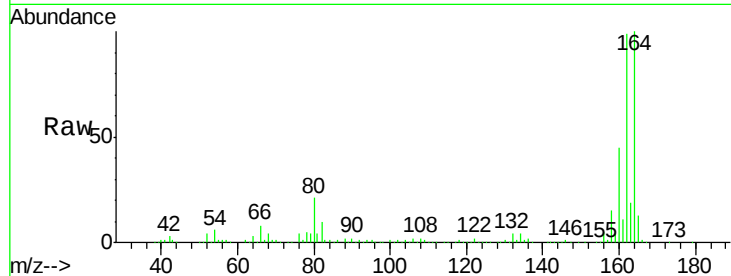




#51
 2,6-Dinitrotoluene
 Concen: 7.904 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. 0.21 min
 Lab File: BF121284.D
 Acq: 13 Aug 2020 22:12

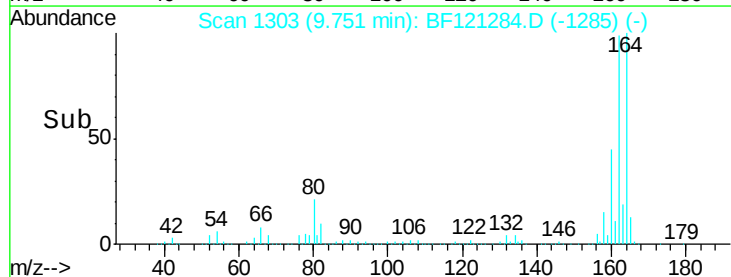
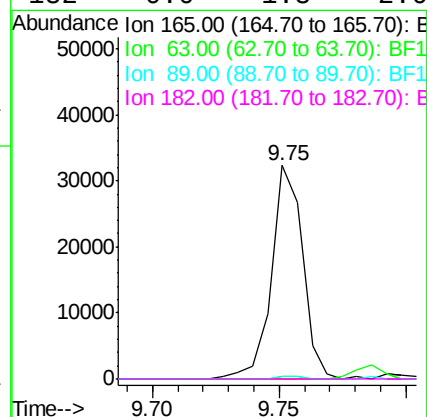
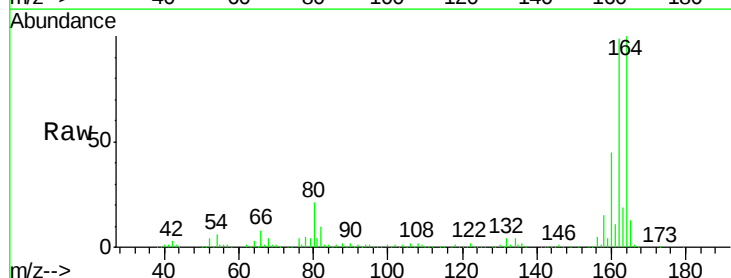
Instrument :
 BNA_F
 ClientSampleId :
 EO-02-081120

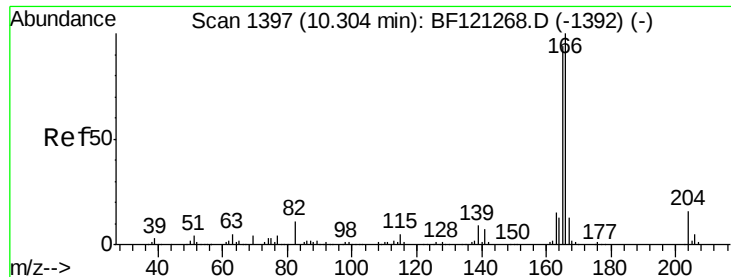
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.0	42.3	63.5#
89	1.3	45.0	67.4#



#57
 2,4-Dinitrotoluene
 Concen: 6.023 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.19 min
 Lab File: BF121284.D
 Acq: 13 Aug 2020 22:12

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	31.9	47.9#
89	1.3	53.6	80.4#
182	0.0	1.8	2.6#





#58

Fluorene

Concen: 2.952 ng

RT: 10.30 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

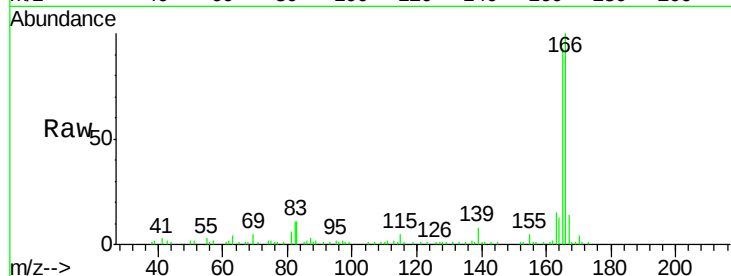
Tot Ion:166 Resp: 46208

Ion Ratio Lower Upper

166 100

165 93.3 75.0 112.6

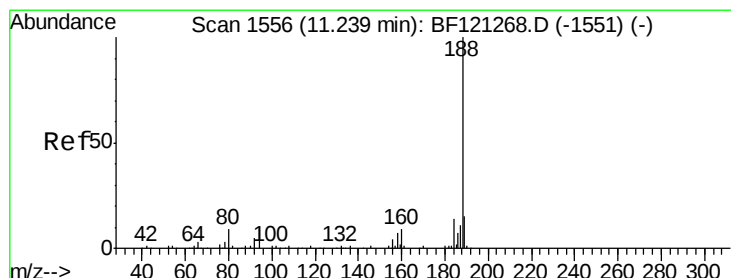
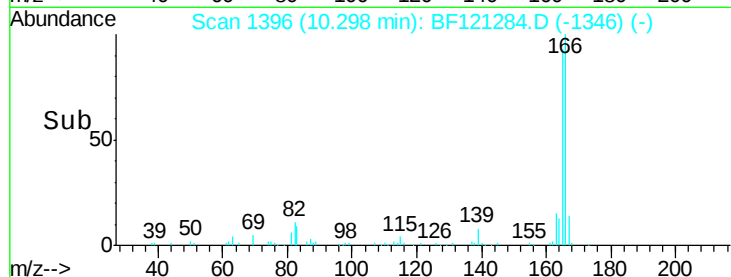
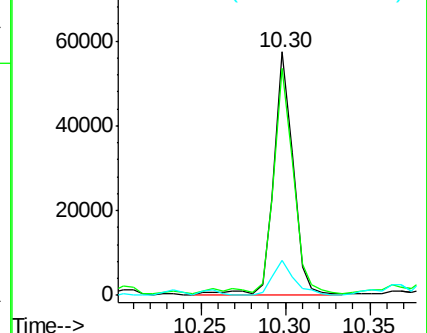
167 14.2 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

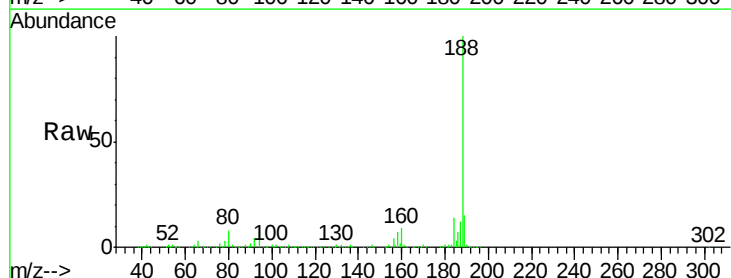
Tgt Ion:188 Resp: 369406

Ion Ratio Lower Upper

188 100

94 8.3 7.0 10.6

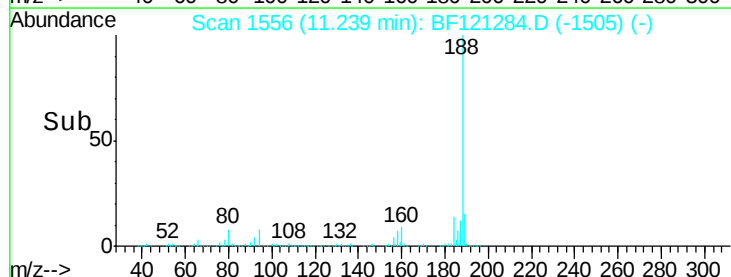
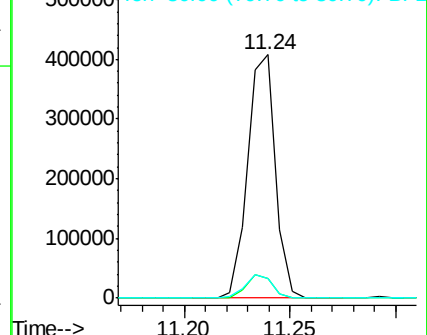
80 8.3 7.4 11.0

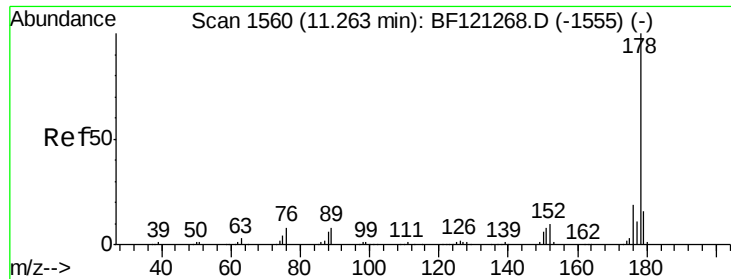


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

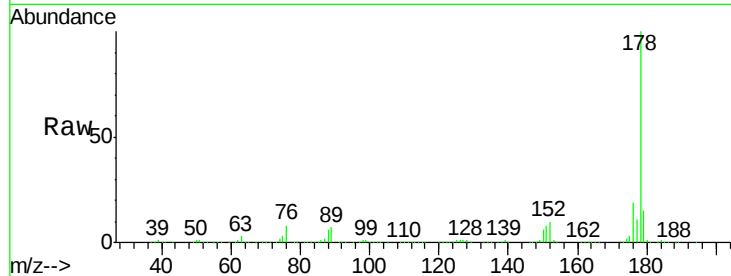




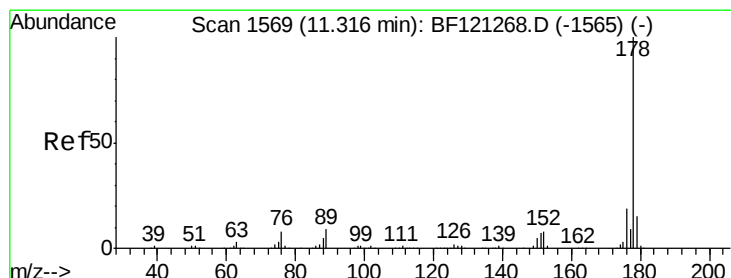
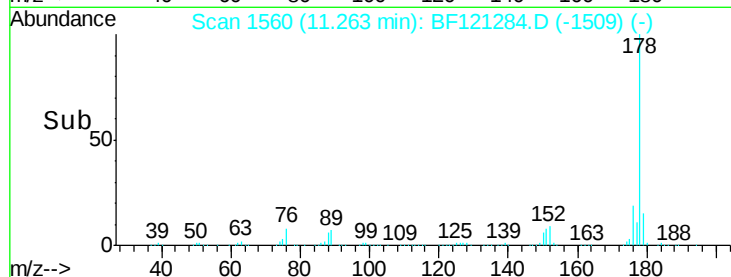
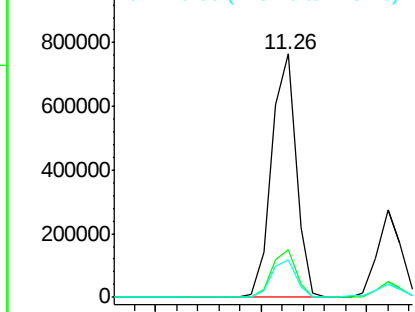
#71
Phenanthrene
Concen: 29.369 ng
RT: 11.26 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Instrument :
BNA_F
ClientSampleId :
EO-02-081120

Tot Ion:178 Resp: 620672
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.8
179 15.4 12.6 19.0

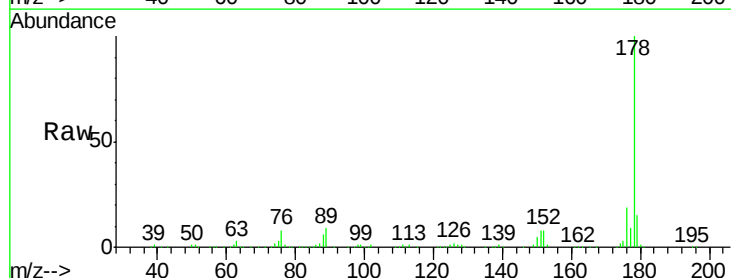


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

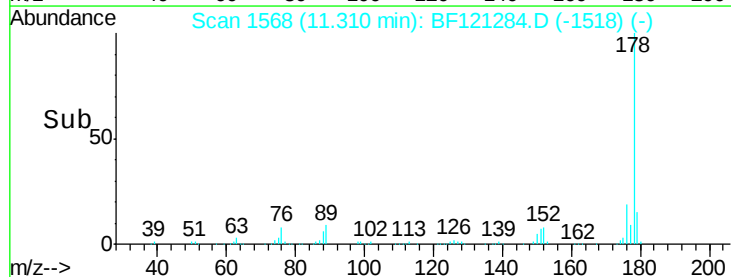
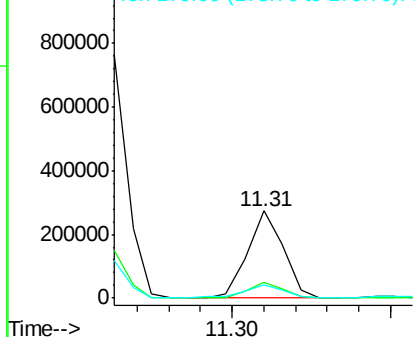


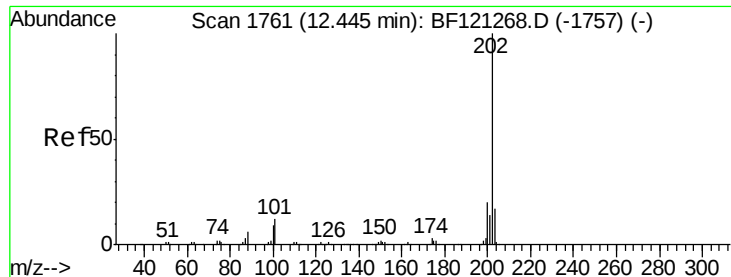
#72
Anthracene
Concen: 10.080 ng
RT: 11.31 min Scan# 1568
Delta R.T. -0.01 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Tgt Ion:178 Resp: 213776
Ion Ratio Lower Upper
178 100
176 18.7 15.2 22.8
179 15.5 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 48.723 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.01 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

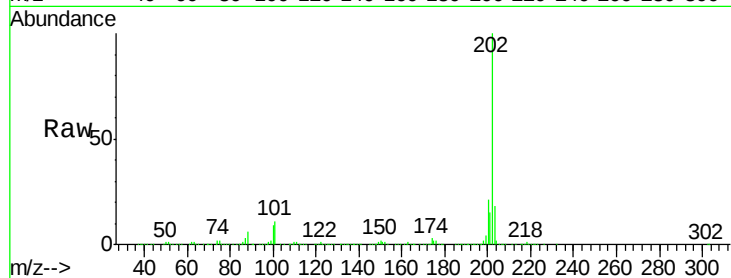
Tot Ion:202 Resp: 1146554

Ion Ratio Lower Upper

202 100

101 11.5 0.0 30.6

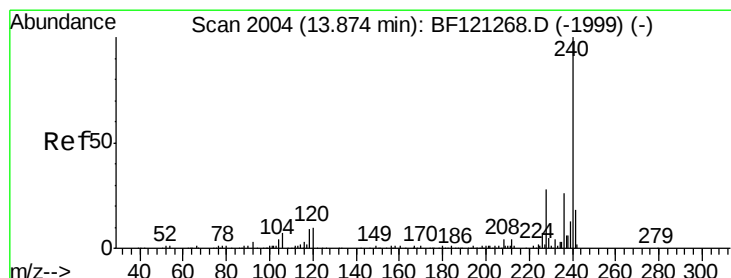
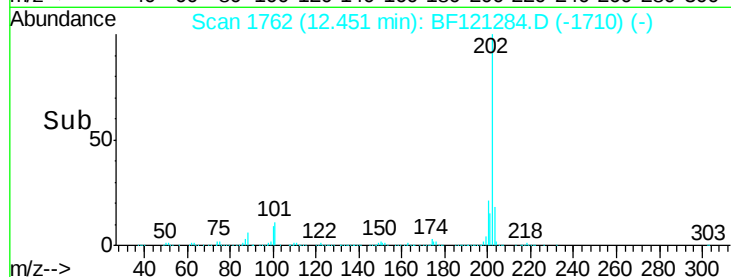
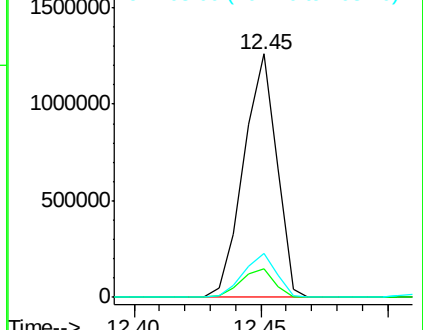
203 17.9 0.0 38.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

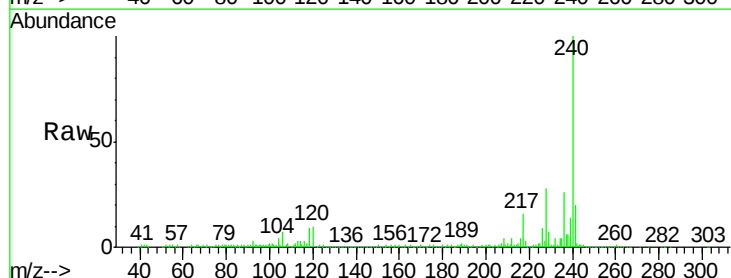
Tgt Ion:240 Resp: 242870

Ion Ratio Lower Upper

240 100

120 10.1 9.2 13.8

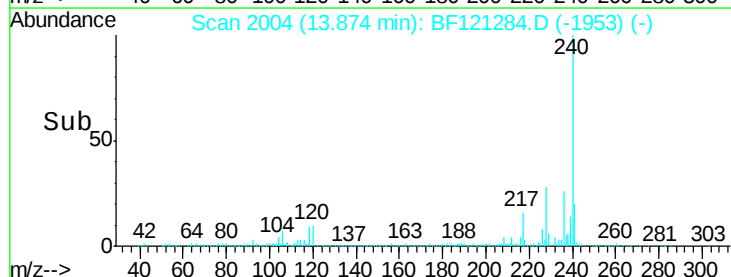
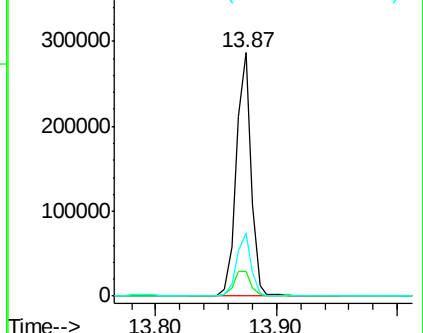
236 26.0 21.0 31.4

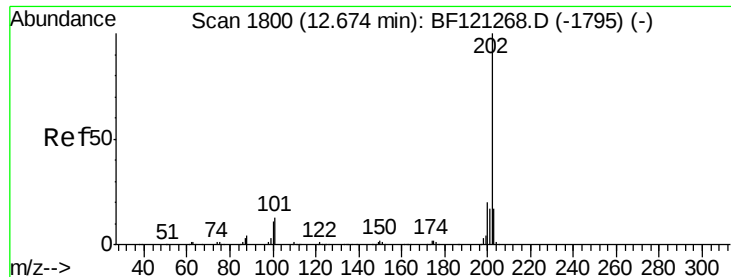


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

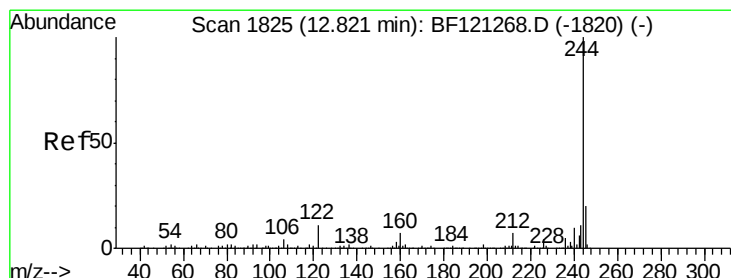
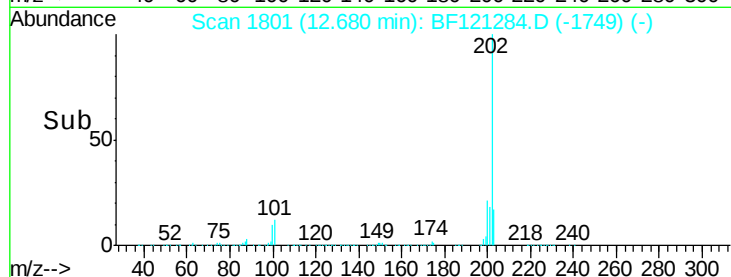
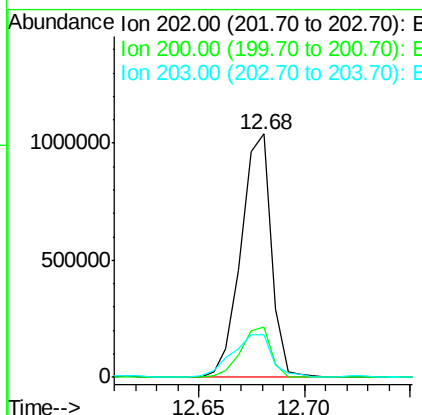
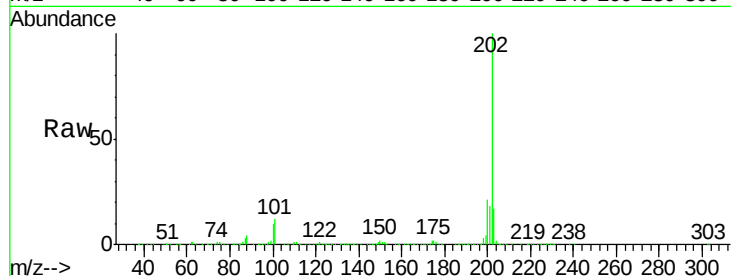




#78
Pvrene
Concen: 57.227 ng
RT: 12.68 min Scan# 1801
Delta R.T. 0.01 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

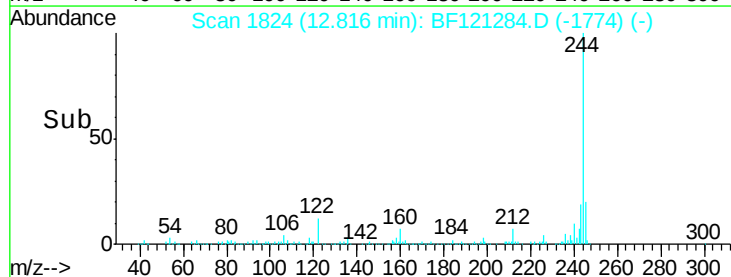
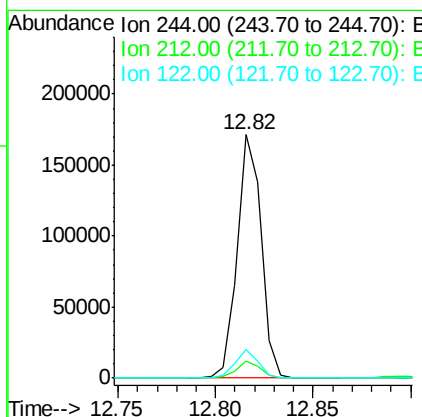
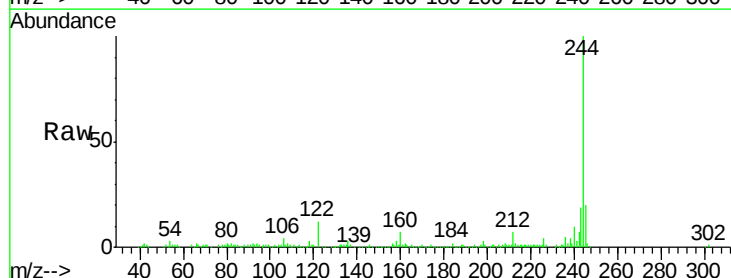
Instrument :
BNA_F
ClientSampleId :
EO-02-081120

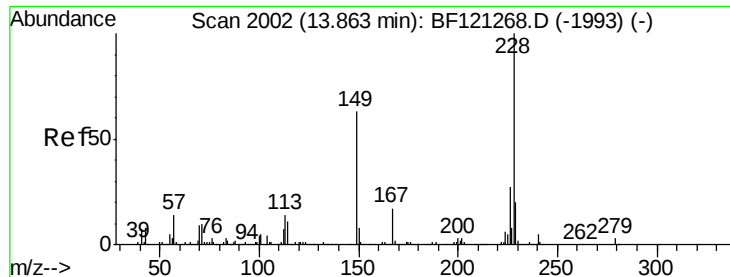
Tot Ion:202 Resp: 1034997
Ion Ratio Lower Upper
202 100
200 20.7 16.3 24.5
203 17.5 13.8 20.8



#79
Terphenyl-d14
Concen: 11.701 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Tgt Ion:244 Resp: 145786
Ion Ratio Lower Upper
244 100
212 6.8 5.5 8.3
122 11.7 9.1 13.7





#81

Benzo(a)anthracene

Concen: 33.424 ng

RT: 13.86 min Scan# 2002

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

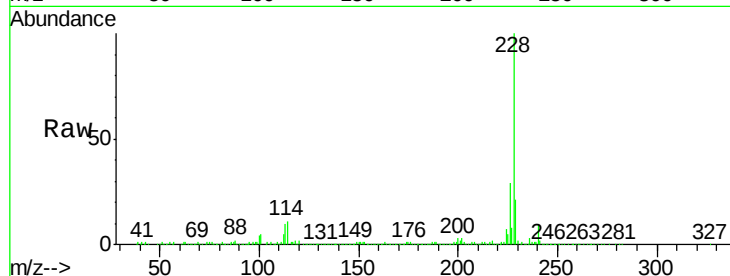
Tot Ion:228 Resp: 550588

Ion Ratio Lower Upper

228 100

226 28.9 22.0 33.0

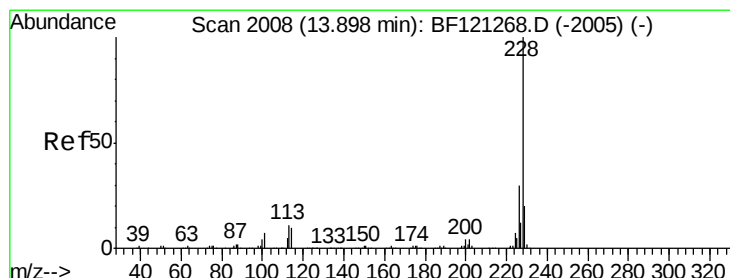
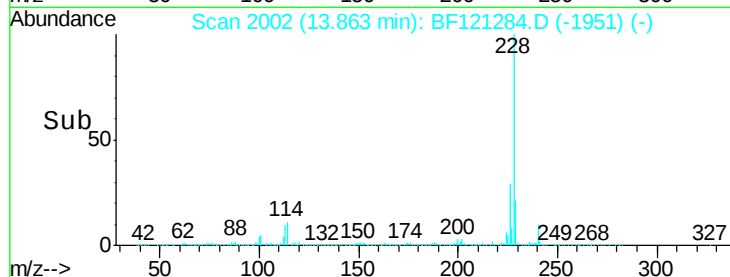
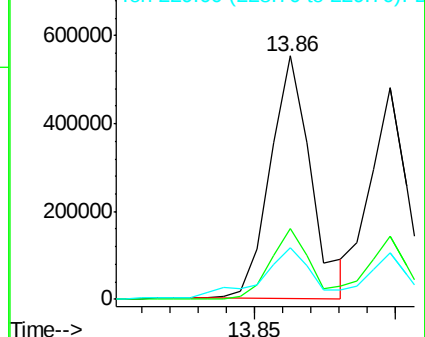
229 21.3 16.0 24.0



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



#83

Chrysene

Concen: 25.160 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

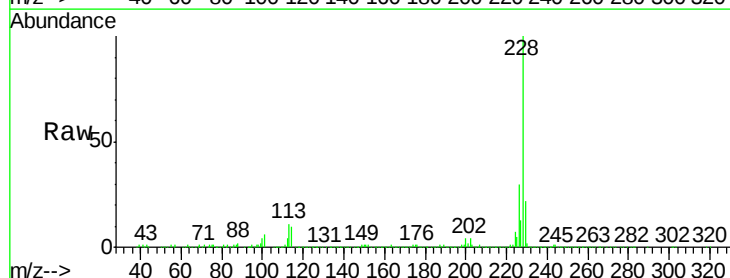
Tgt Ion:228 Resp: 423150

Ion Ratio Lower Upper

228 100

226 29.7 24.8 37.2

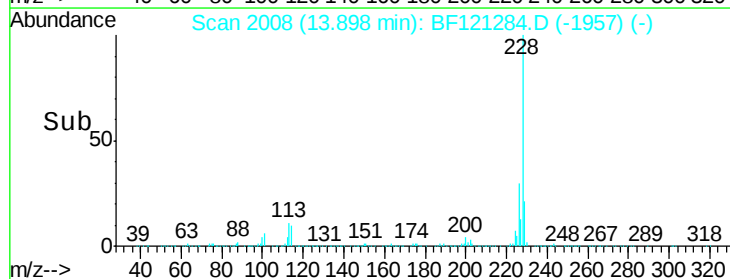
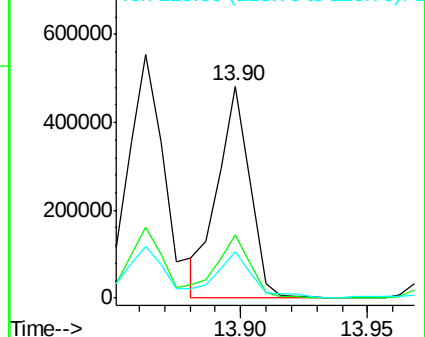
229 21.7 16.2 24.2

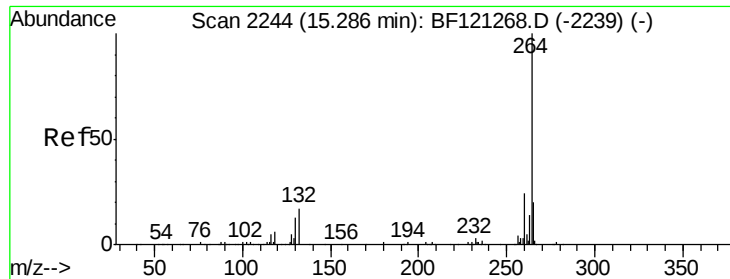


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

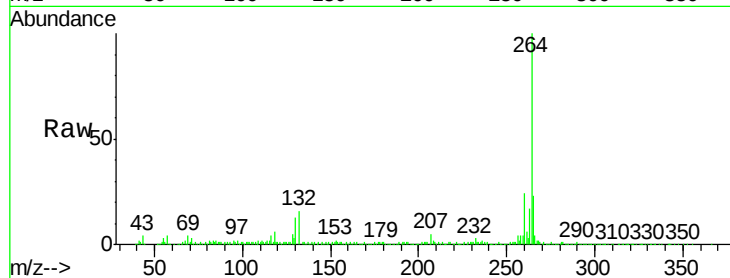




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.01 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Instrument :
BNA_F
ClientSampleId :
EO-02-081120

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.7	17.1	25.7

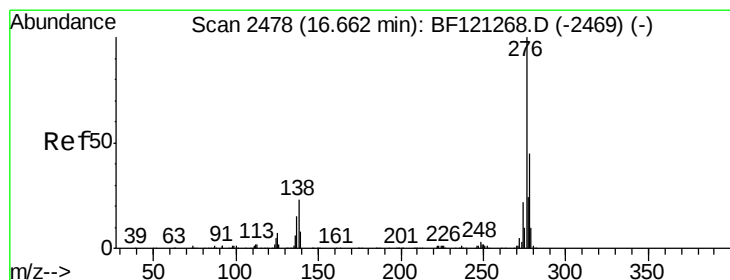
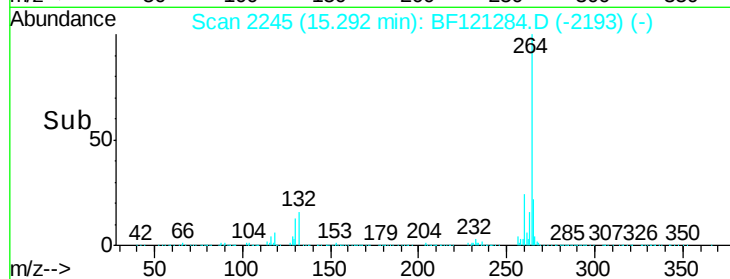
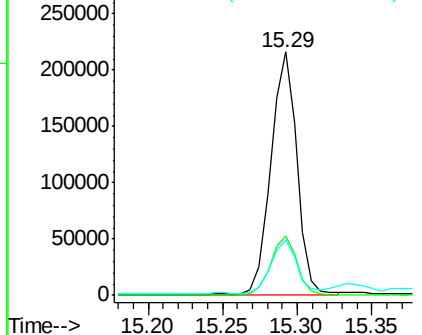


Abundance

Ion 264.00 (263.70 to 264.70): E

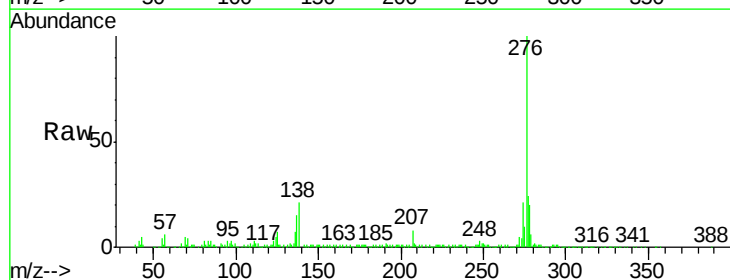
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Indeno(1,2,3-cd)pyrene
Concen: 13.503 ng
RT: 16.66 min Scan# 2478
Delta R.T. 0.00 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.1	19.6	29.4
277	24.2	20.0	30.0

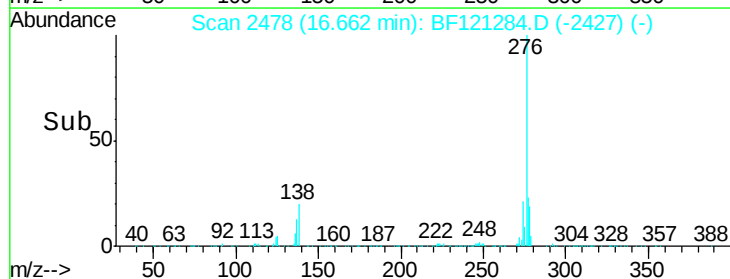
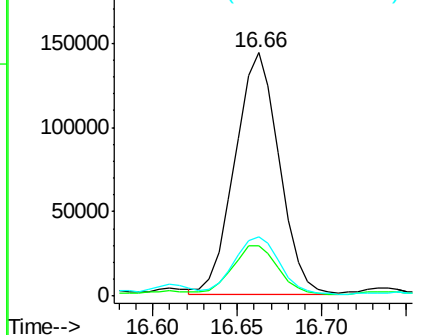


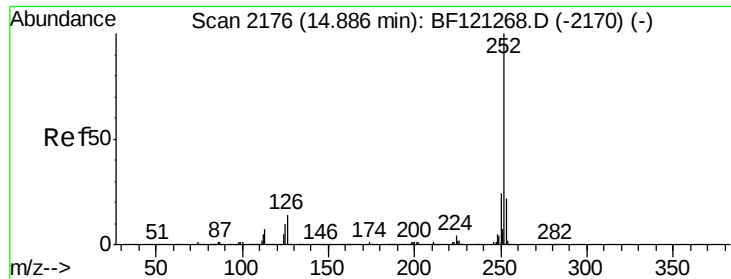
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

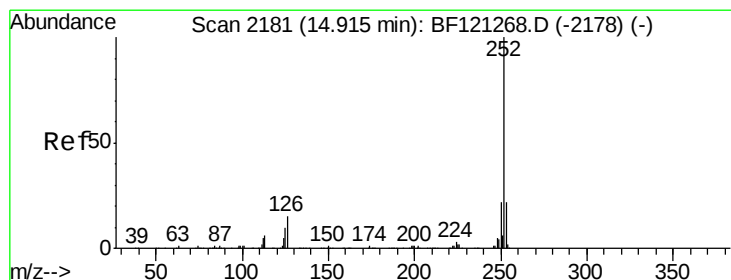
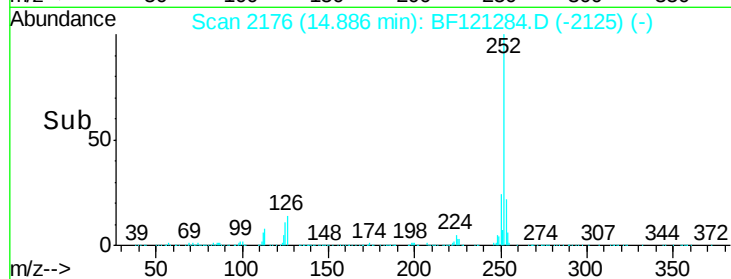
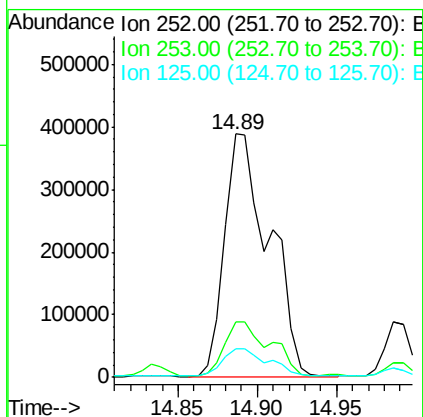
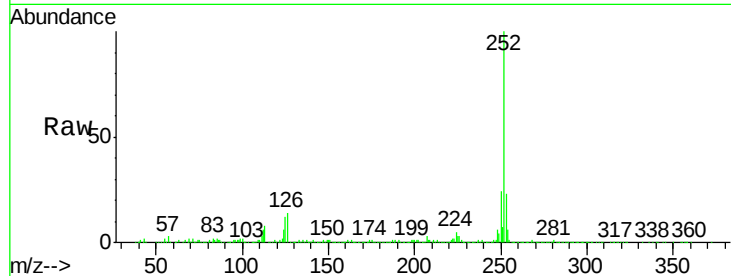




#88
Benzo(b)fluoranthene
Concen: 43.581 ng
RT: 14.89 min Scan# 2176
Delta R.T. 0.00 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

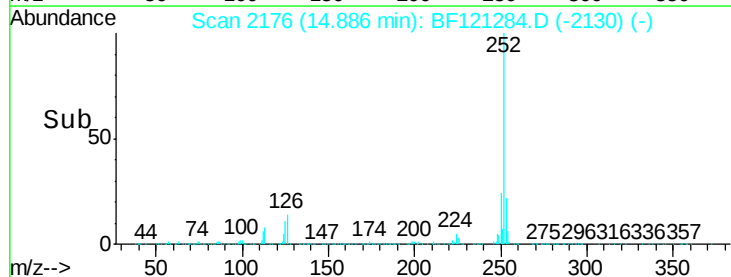
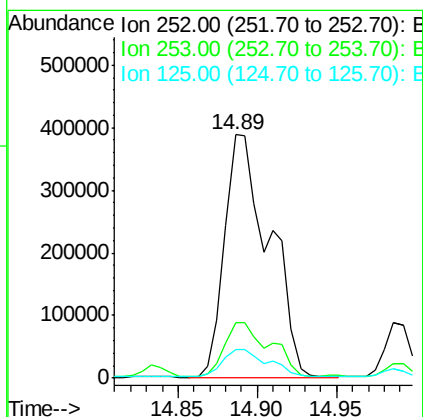
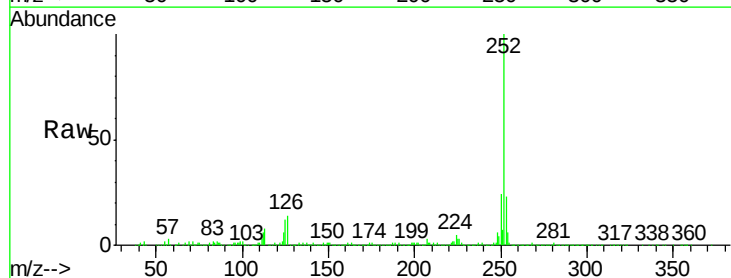
Instrument :
BNA_F
ClientSampleId :
EO-02-081120

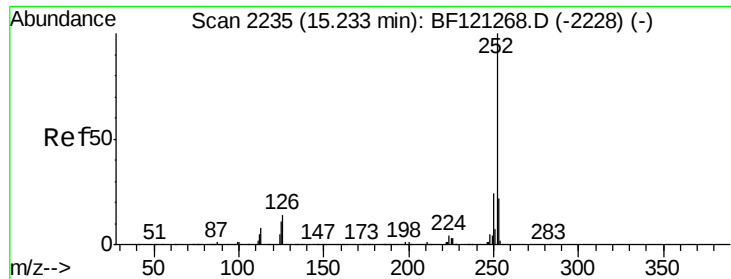
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	11.7	7.6	11.4



#89
Benzo(k)fluoranthene
Concen: 46.931 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.03 min
Lab File: BF121284.D
Acq: 13 Aug 2020 22:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.7	8.8	13.2





#90

Benzo(a)pyrene

Concen: 27.663 ng

RT: 15.23 min Scan# 2235

Delta R.T. 0.00 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

Instrument :

BNA_F

ClientSampleId :

EO-02-081120

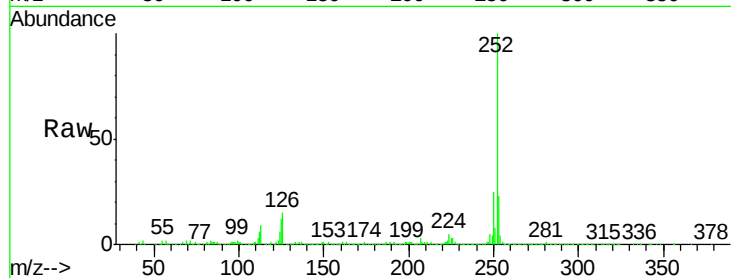
Tot Ion:252 Resp: 435988

Ion Ratio Lower Upper

252 100

253 22.8 18.0 27.0

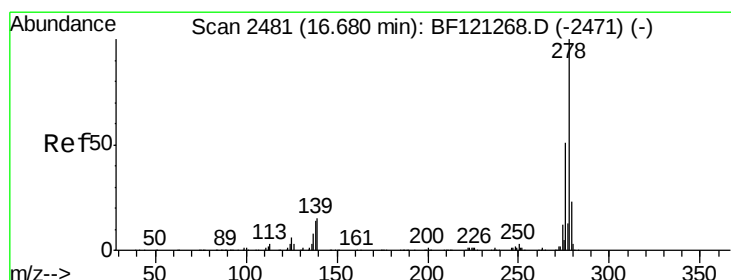
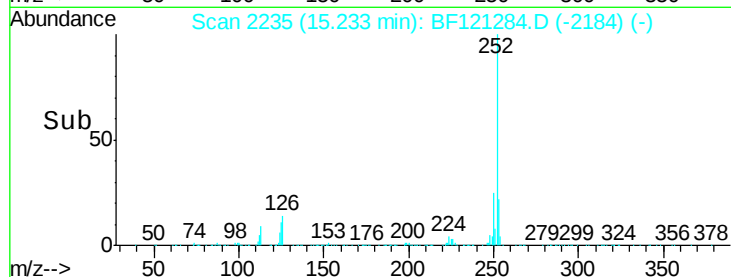
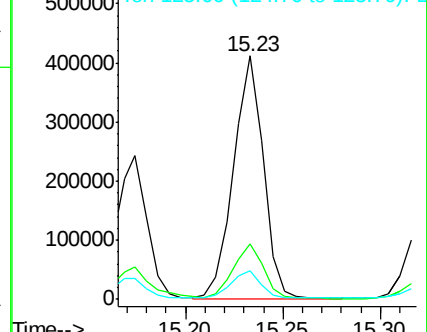
125 11.6 9.3 13.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 3.455 ng

RT: 16.83 min Scan# 2506

Delta R.T. 0.15 min

Lab File: BF121284.D

Acq: 13 Aug 2020 22:12

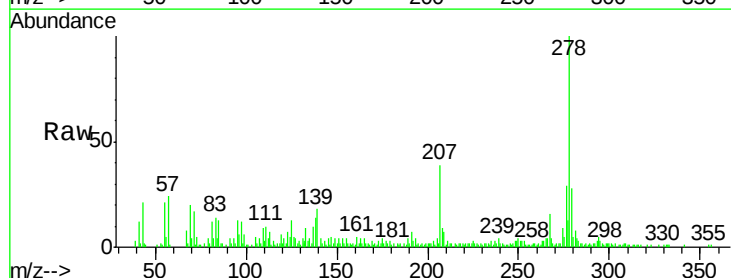
Tgt Ion:278 Resp: 57356

Ion Ratio Lower Upper

278 100

139 18.4 12.6 19.0

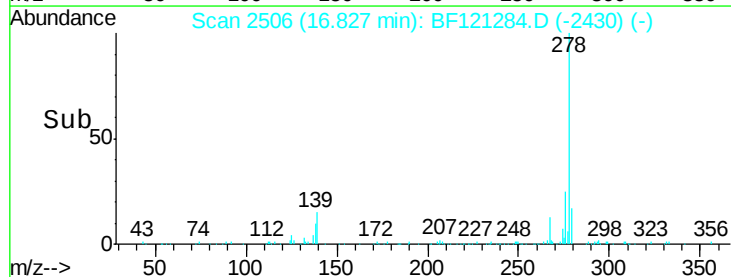
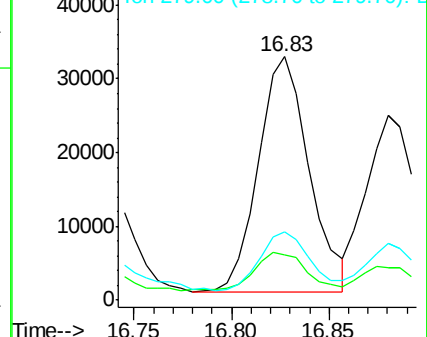
279 27.8 18.8 28.2

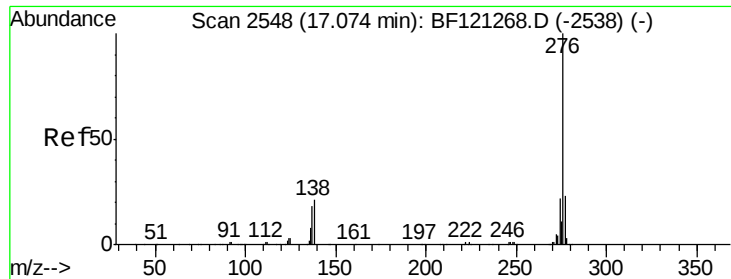


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

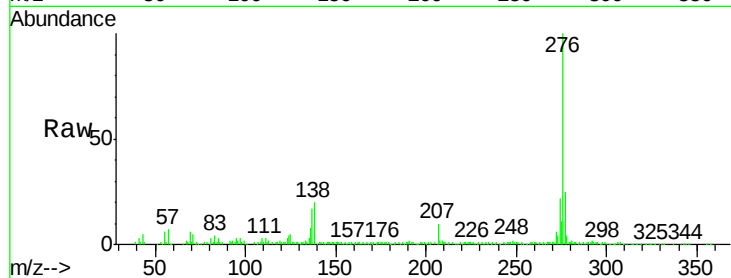




#92
 Benzo(a,h,i)perylene
 Concen: 14.314 ng
 RT: 17.08 min Scan# 2549
 Delta R.T. 0.01 min
 Lab File: BF121284.D
 Acq: 13 Aug 2020 22:12

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-081120

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.1	28.7
138	20.5	16.2	24.2



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

