

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
 Data File : BF121356.D
 Acq On : 20 Aug 2020 19:49
 Operator : JU/CG
 Sample : L3504-07 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

Quant Time: Aug 21 00:28:10 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 20 04:56:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	134223	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	517671	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	260534	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	448343	20.00	ng	0.00
76) Chrysene-d12	13.85	240	348168	20.00	ng	0.00
86) Perylene-d12	15.26	264	331423	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.30	112	114885	14.03	ng	0.00
7) Phenol-d6	6.33	99	144116	13.79	ng	0.00
23) Nitrobenzene-d5	7.26	82	80784	8.83	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	33033	10.88	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	182866	0.64	ng	0.00
79) Terphenyl-d14	12.79	244	159547	8.95	ng	0.00

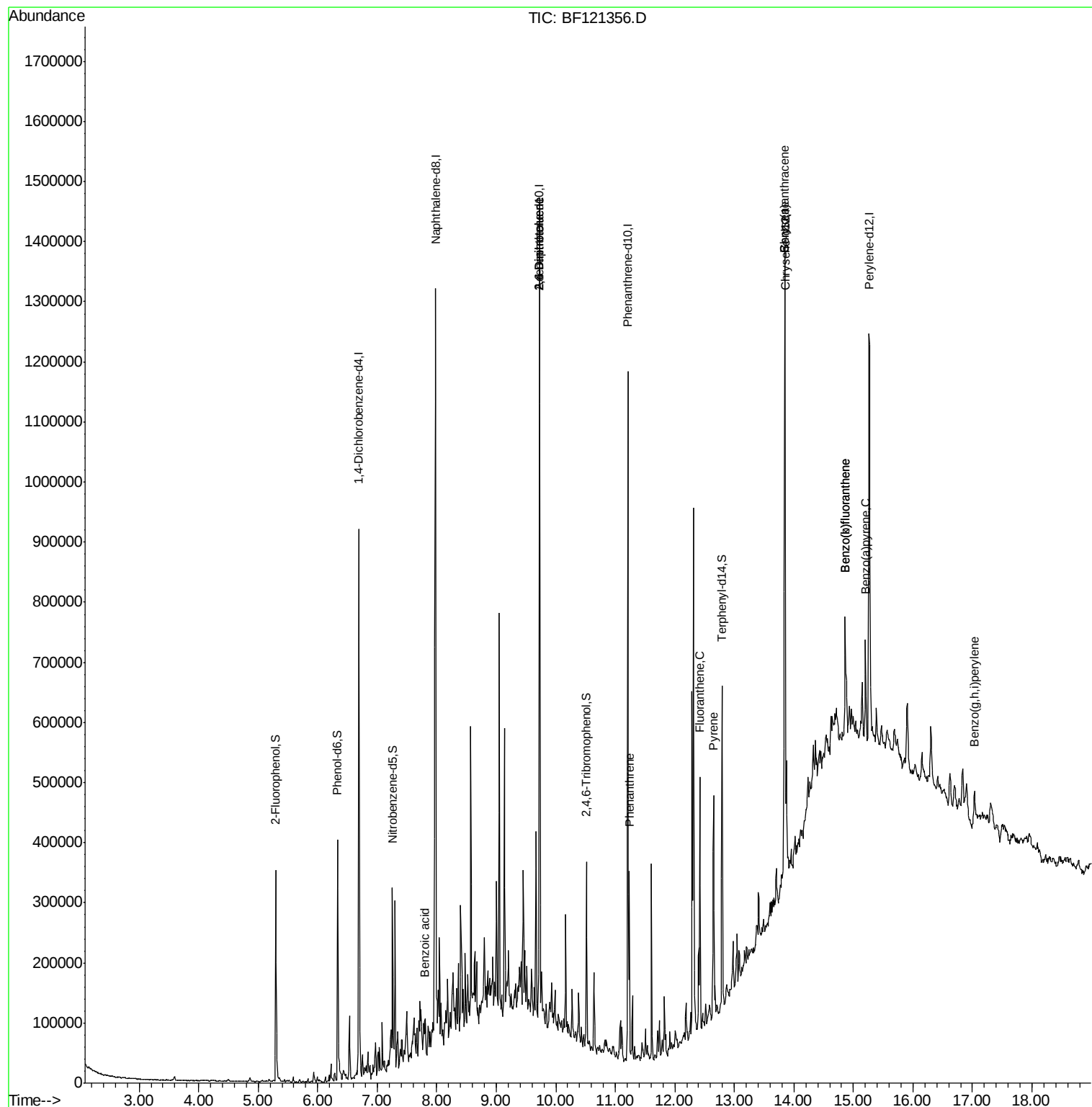
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) 3+4-Methylphenols	7.14	107	516	Below Cal	#	72
32) Benzoic acid	7.79	122	107	7.083 ng	#	1
51) 2,6-Dinitrotoluene	9.73	165	35209	8.698 ng	#	30
55) Dibenzofuran	9.93	168	14934	Below Cal	#	92
57) 2,4-Dinitrotoluene	9.73	165	35130	7.114 ng	#	25
58) Fluorene	10.27	166	20151	Below Cal	#	97
61) 4-Chlorophenyl-phenylether	10.09	204	1209	Below Cal	#	55
71) Phenanthrene	11.23	178	104890	4.520 ng		97
75) Fluoranthene	12.42	202	152332	6.048 ng		99
78) Pyrene	12.65	202	145059	5.546 ng		99
81) Benzo(a)anthracene	13.84	228	81835	3.784 ng	#	89
83) Chrysene	13.84	228	81835	3.700 ng		93
88) Benzo(b)fluoranthene	14.86	252	122486	5.721 ng	#	91
89) Benzo(k)fluoranthene	14.86	252	122486	6.499 ng	#	91
90) Benzo(a)pyrene	15.20	252	64056	3.462 ng	#	92
92) Benzo(g,h,i)perylene	17.03	276	34062	2.100 ng	#	91

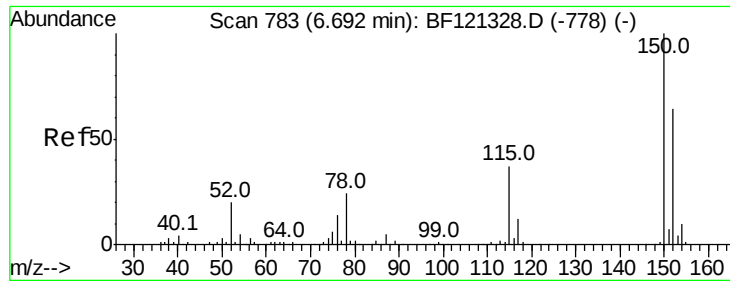
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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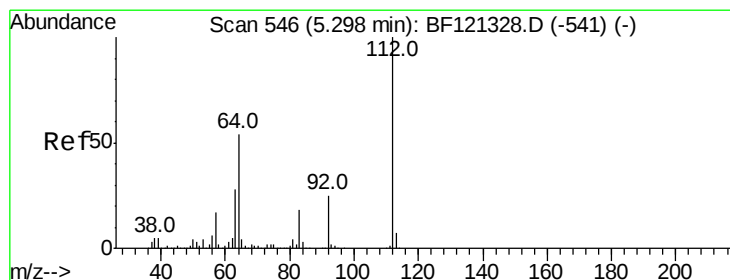
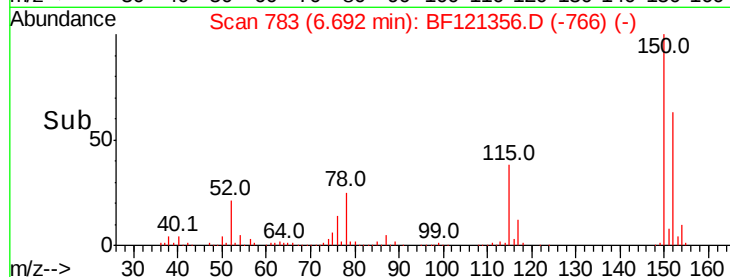
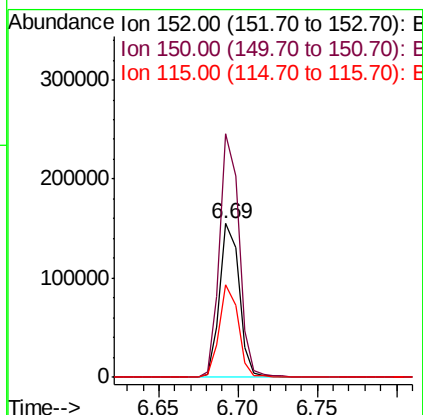
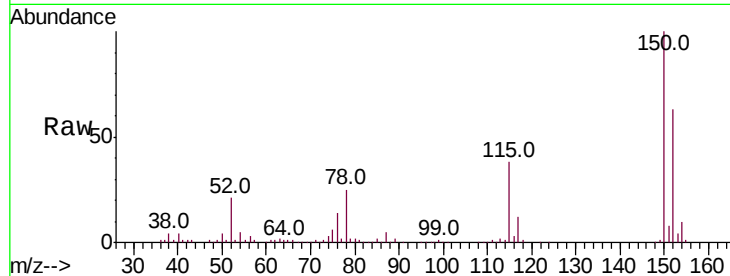


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

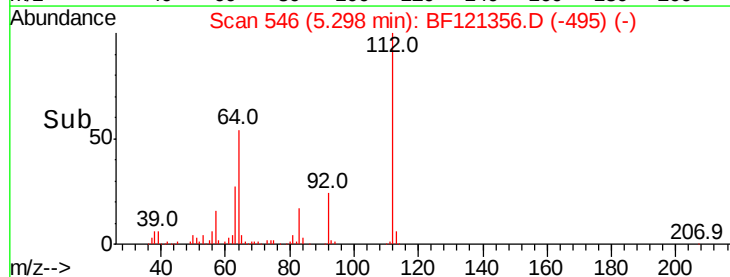
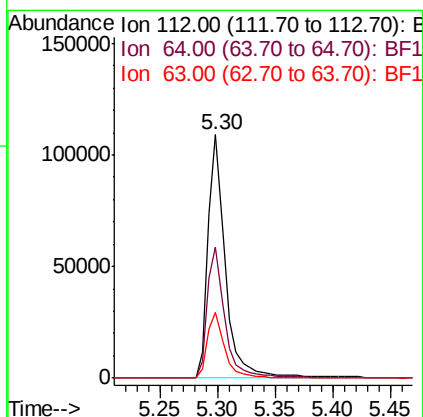
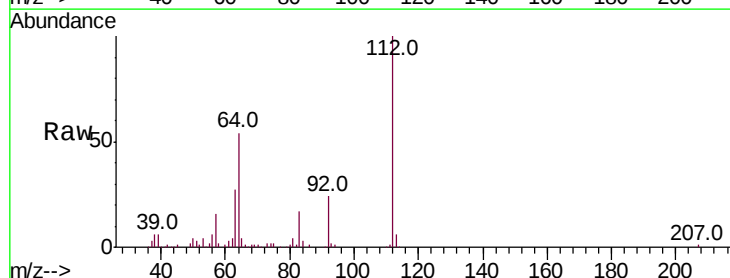
Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.8	187.2
115	60.4	46.1	69.1

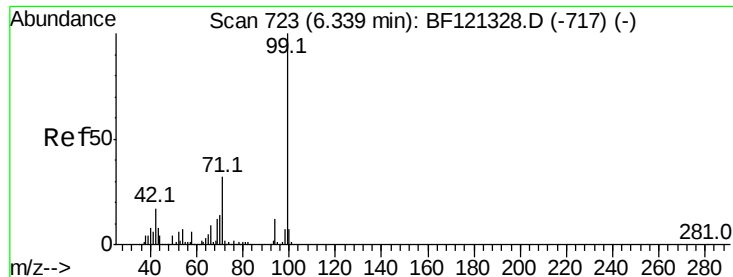


#5

2-Fluorophenol
 Concen: 14.035 ng
 RT: 5.30 min Scan# 546
 Delta R.T. 0.00 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.7	43.5	65.3
63	27.0	22.0	33.0





#7

Phenol-d6

Concen: 13.791 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Instrument :

BNA_F

ClientSampleId :

EO-01-081920

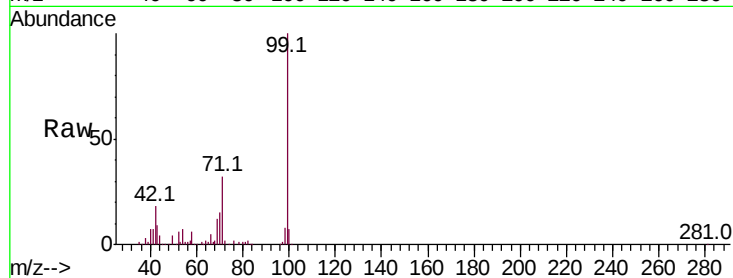
Tot Ion: 99 Resp: 144116

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

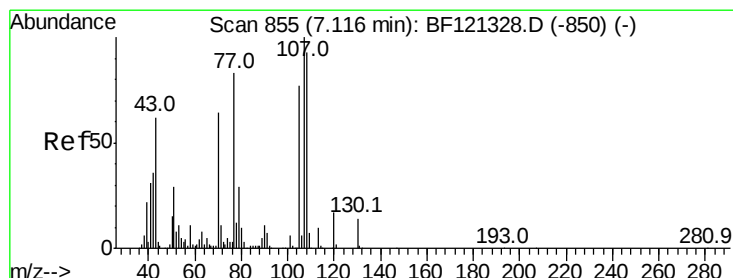
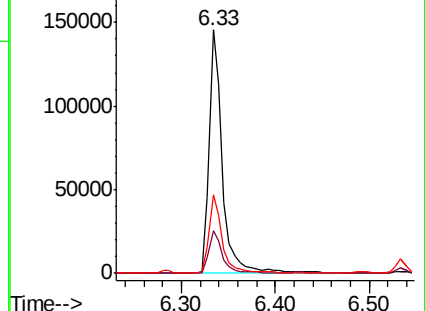
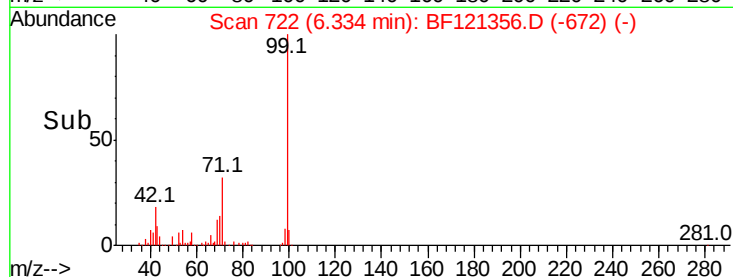
71 32.5 25.2 37.8



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



#20

3+4-Methylphenols

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. 0.02 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Tgt Ion:107 Resp: 516

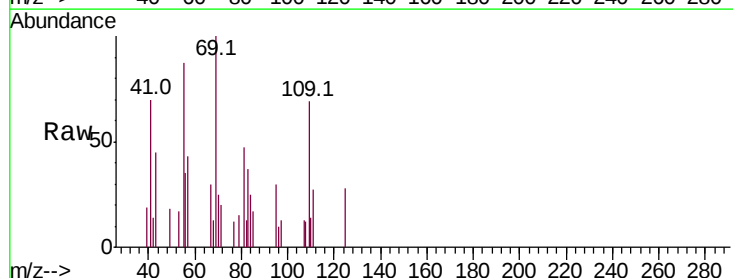
Ion Ratio Lower Upper

107 100

108 88.7 72.6 112.6

77 91.0 63.8 103.8

79 115.1 9.1 49.1#

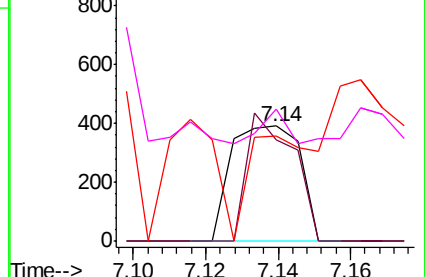
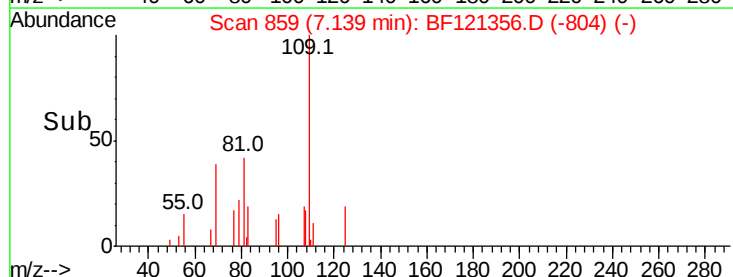


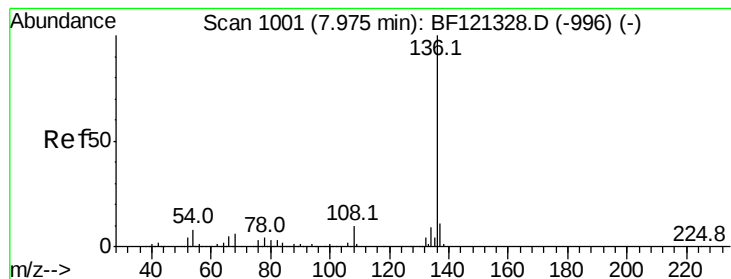
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Instrument :

BNA_F

ClientSampleId :

EO-01-081920

Tot Ion:136 Resp: 517671

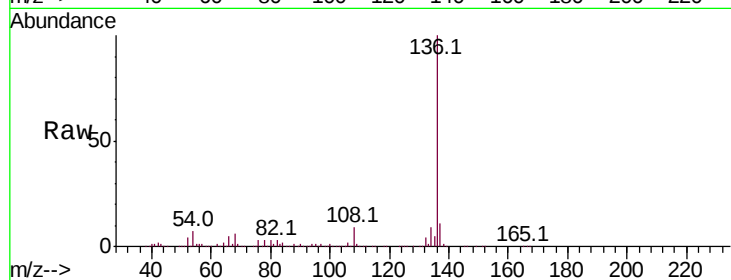
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.1 6.1 9.1

68 5.9 5.0 7.4

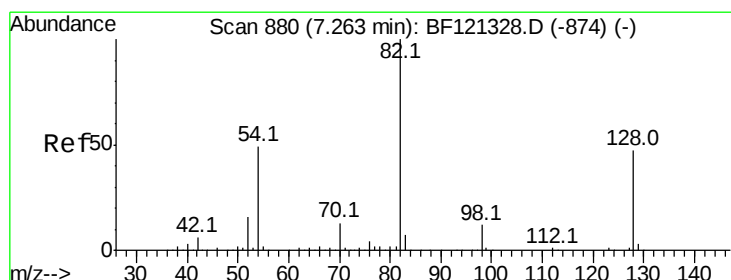
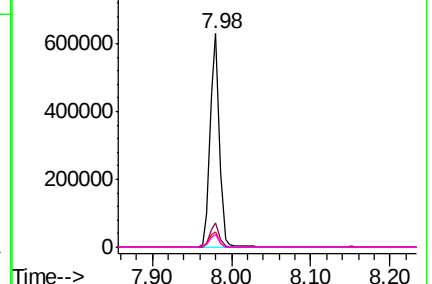
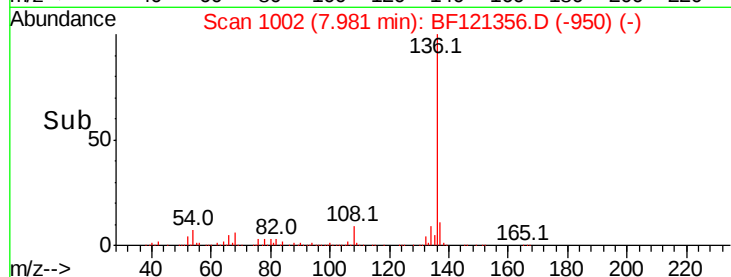


Abundance Ion 136.00 (135.70 to 136.70): E

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: 8.826 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

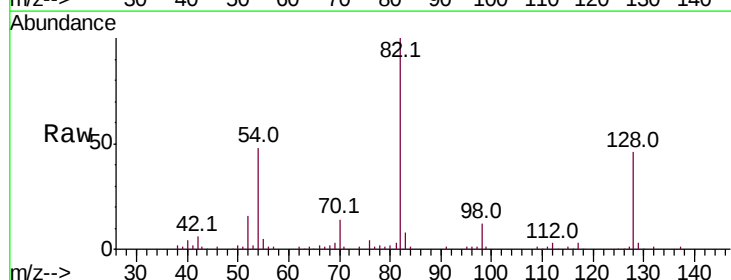
Tgt Ion: 82 Resp: 80784

Ion Ratio Lower Upper

82 100

128 45.7 37.9 56.9

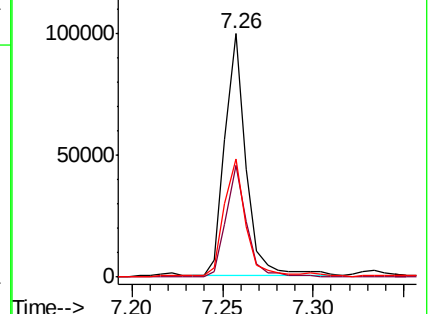
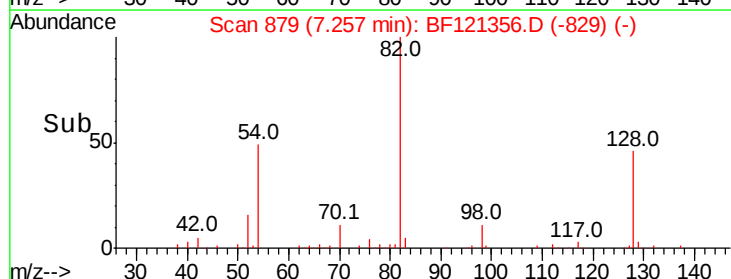
54 48.5 39.0 58.4

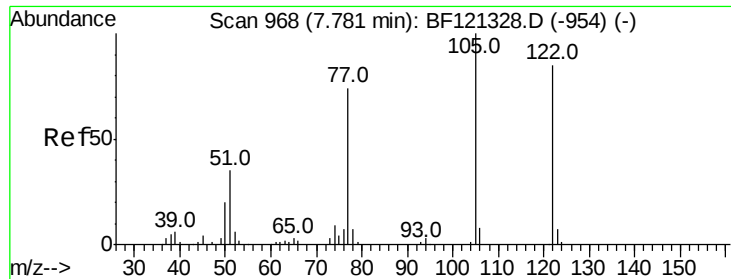


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

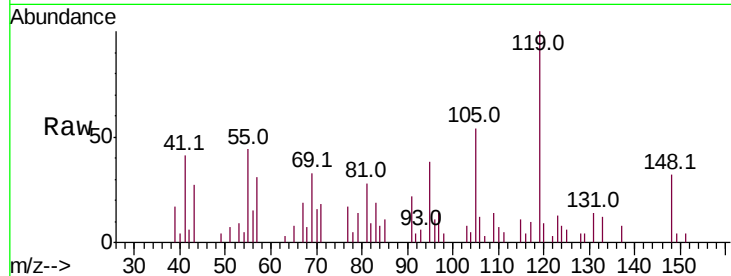




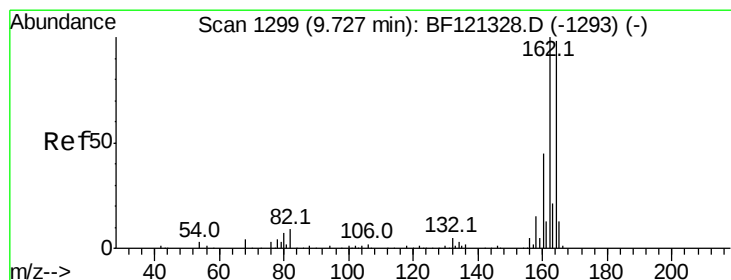
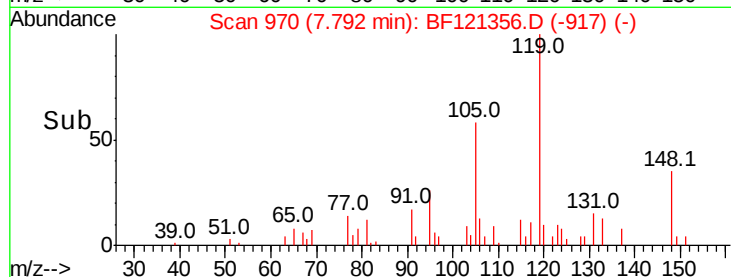
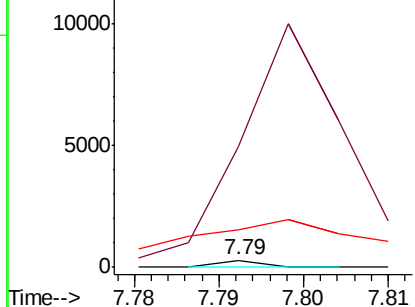
#32
Benzoic acid
Concen: 7.083 ng
RT: 7.79 min Scan# 970
Delta R.T. 0.01 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

Instrument :
BNA_F
ClientSampleId :
EO-01-081920

Tot Ion:122 Resp: 107
Ion Ratio Lower Upper
122 100
105 1637.4 96.7 136.7#
77 504.0 66.7 106.7#

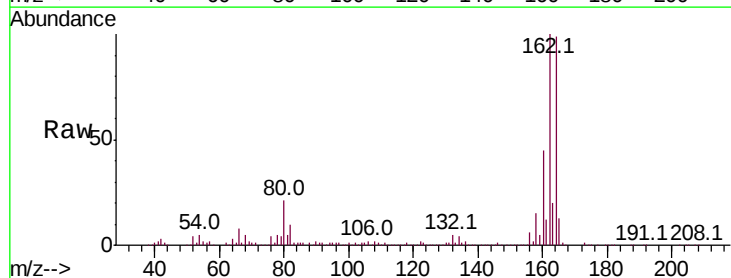


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1

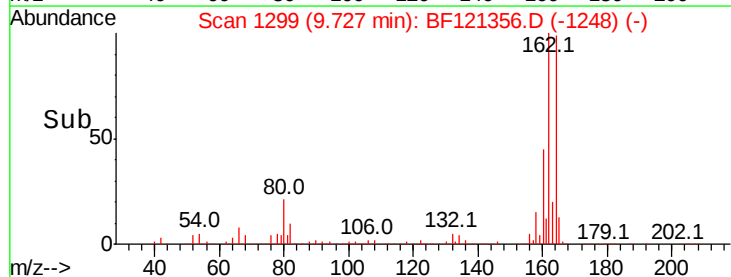
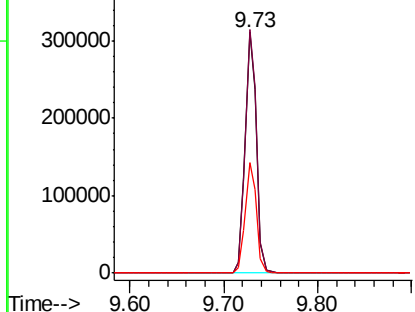


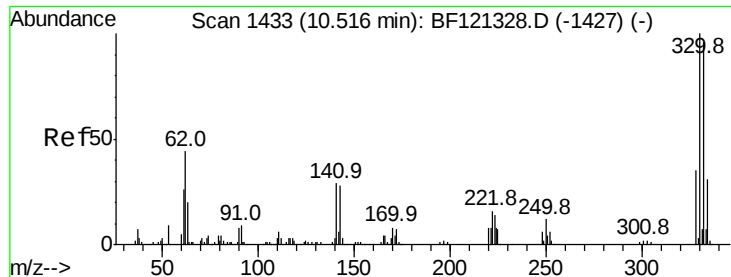
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

Tgt Ion:164 Resp: 260534
Ion Ratio Lower Upper
164 100
162 101.0 81.7 122.5
160 45.6 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: 10.880 ng

RT: 10.52 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Instrument :

BNA_F

ClientSampleId :

EO-01-081920

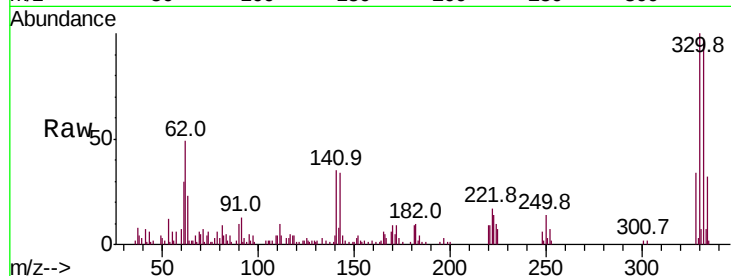
Tot Ion:330 Resp: 33033

Ion Ratio Lower Upper

330 100

332 97.1 76.9 115.3

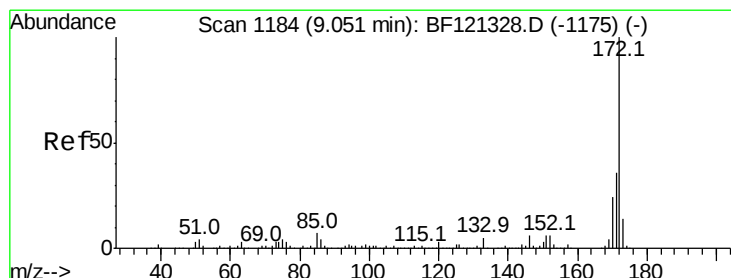
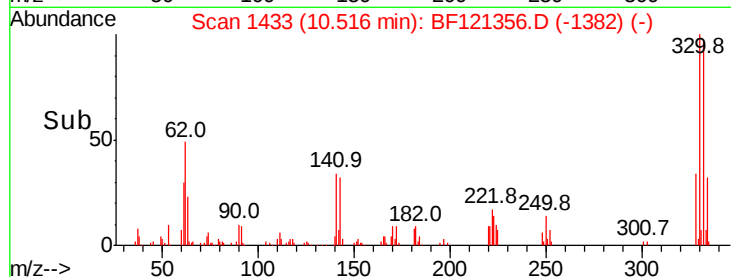
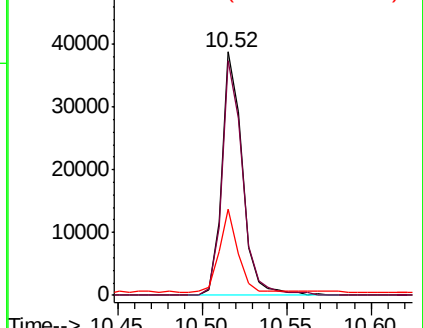
141 30.3 22.8 34.2



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: 0.645 ng

RT: 9.05 min Scan# 1184

Delta R.T. 0.00 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

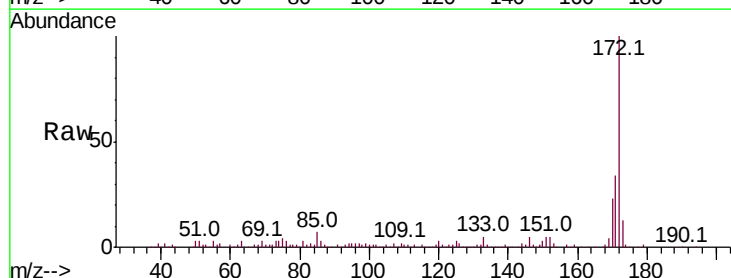
Tgt Ion:172 Resp: 182866

Ion Ratio Lower Upper

172 100

171 34.2 29.0 43.6

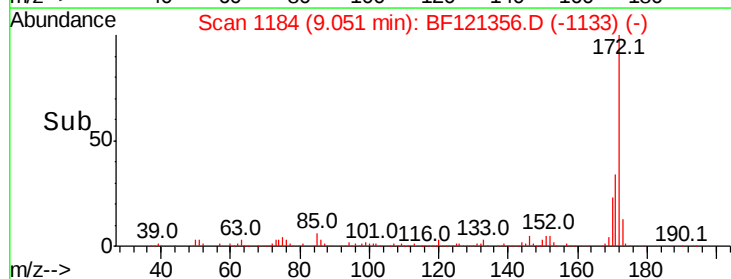
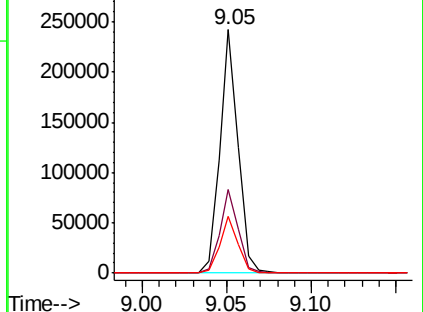
170 23.3 19.4 29.2

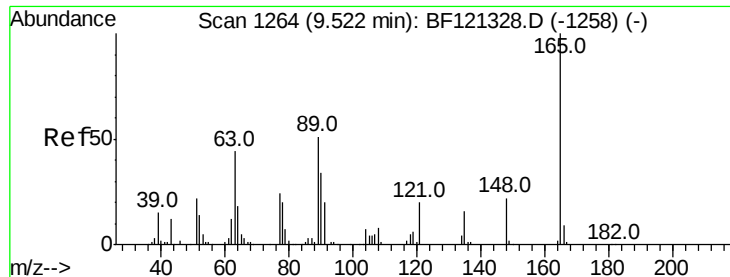


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 8.698 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.21 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Instrument :

BNA_F

ClientSampleId :

EO-01-081920

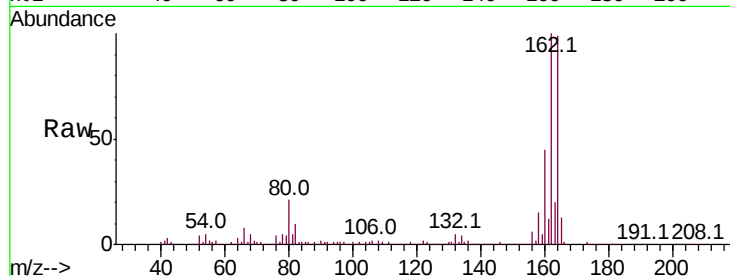
Tot Ion:165 Resp: 35209

Ion Ratio Lower Upper

165 100

63 1.3 38.5 57.7#

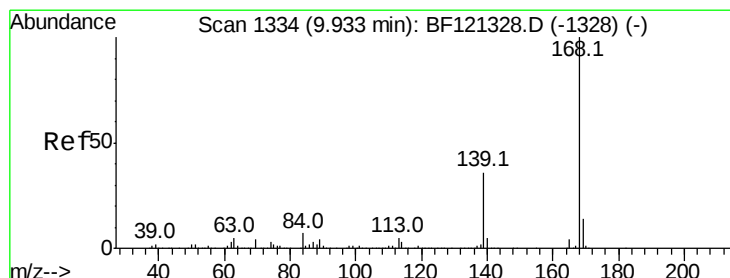
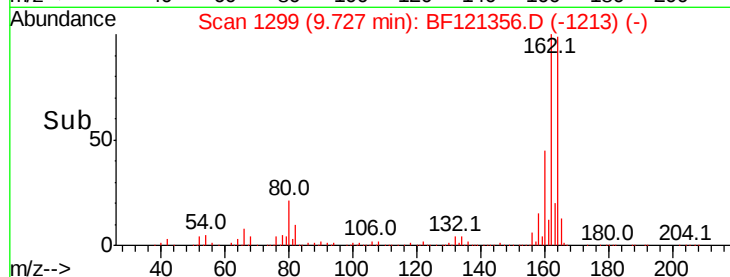
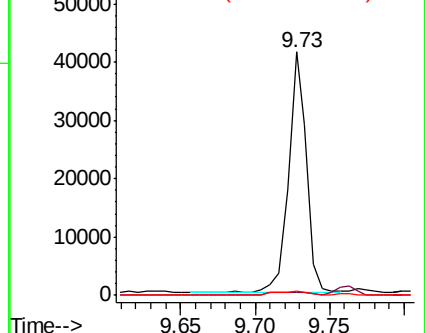
89 1.6 41.2 61.8#



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



#55

Dibenzofuran

Concen: Below Cal

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

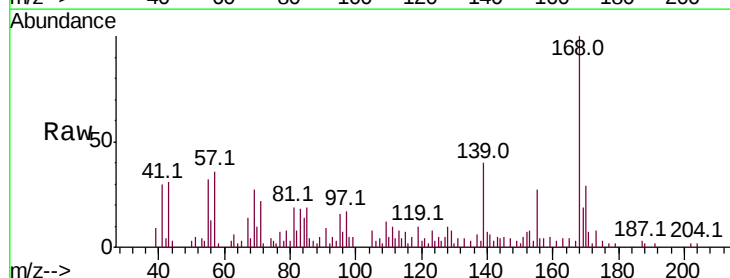
Tgt Ion:168 Resp: 14934

Ion Ratio Lower Upper

168 100

139 39.8 29.1 43.7

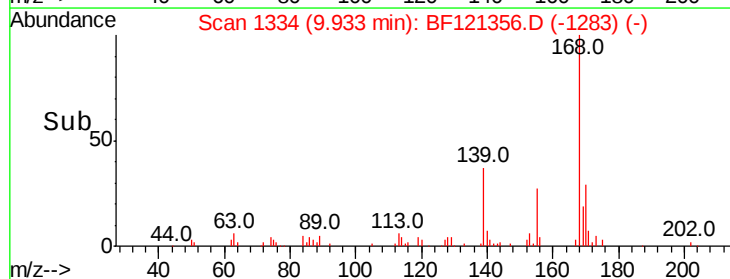
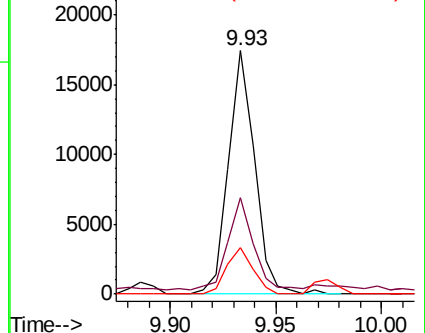
169 19.3 11.0 16.6#

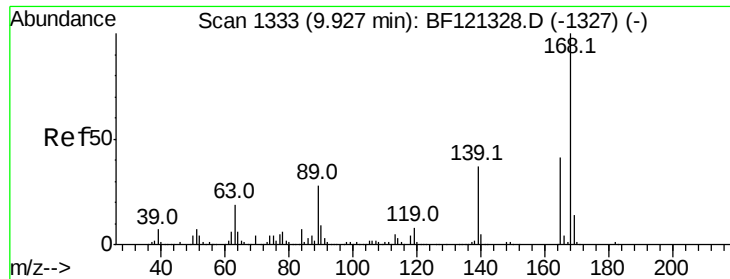


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

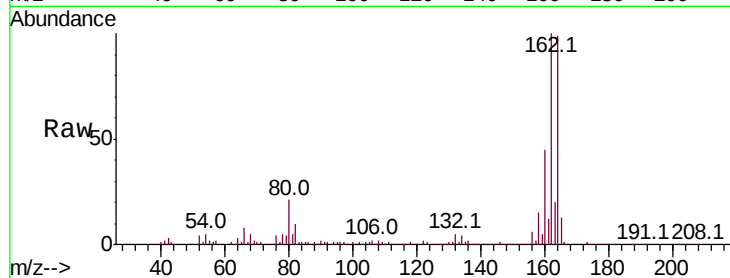




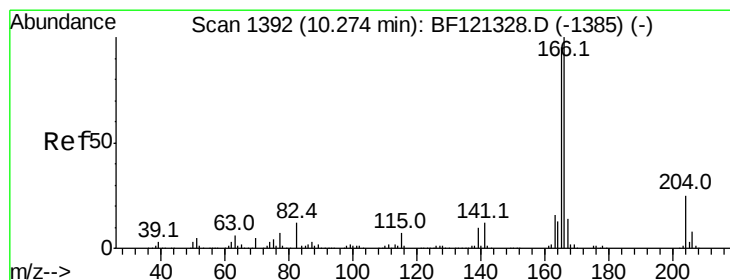
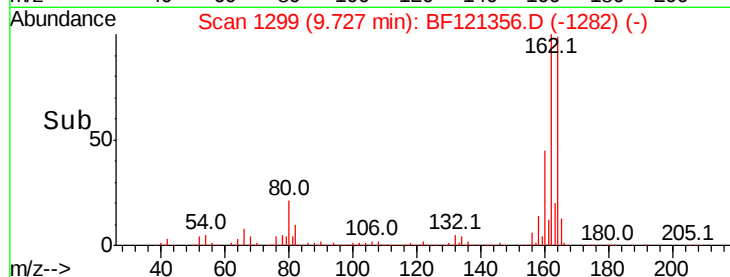
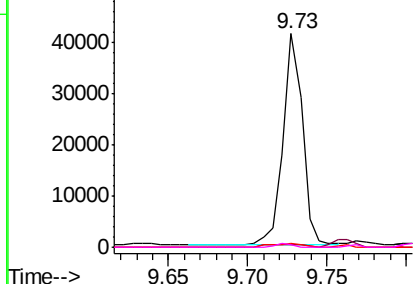
#57
 2,4-Dinitrotoluene
 Concen: 7.114 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. -0.20 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

Tot Ion:	165	Resp:	35130
Ion	Ratio	Lower	Upper
165	100		
63	1.3	37.5	56.3#
89	1.6	54.2	81.4#
182	1.1	2.2	3.4#

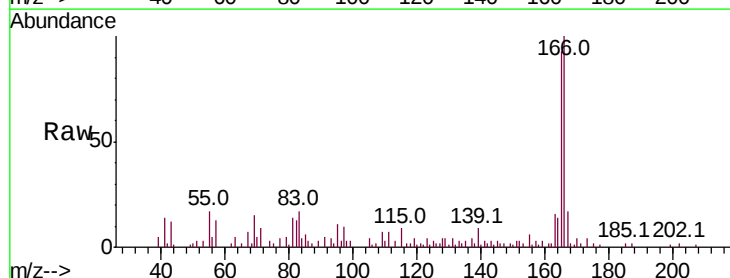


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

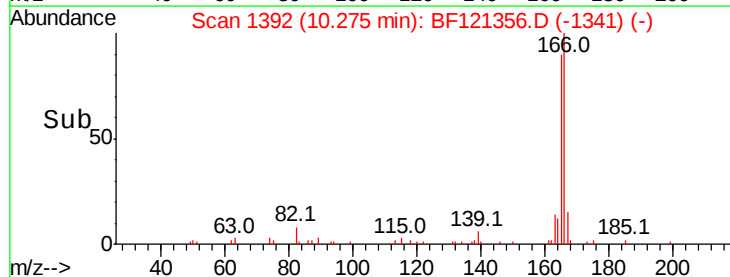
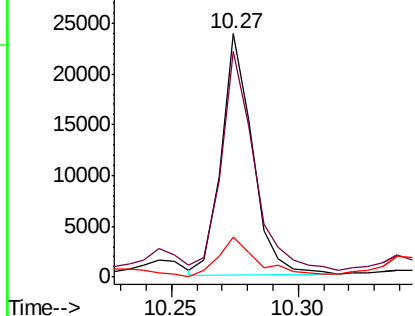


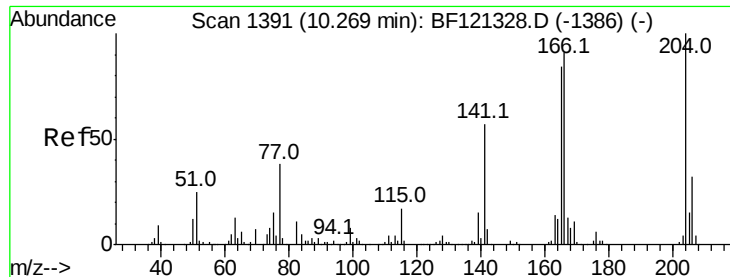
#58
 Fluorene
 Concen: Below Cal
 RT: 10.27 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Tgt Ion:	166	Resp:	20151
Ion	Ratio	Lower	Upper
166	100		
165	92.8	75.8	113.8
167	16.6	11.0	16.4#



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

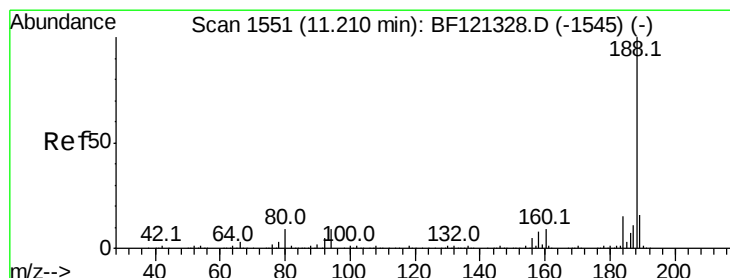
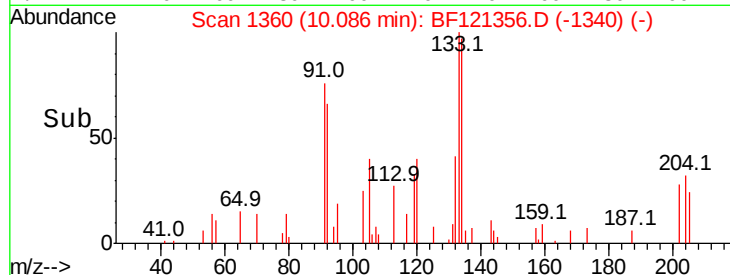
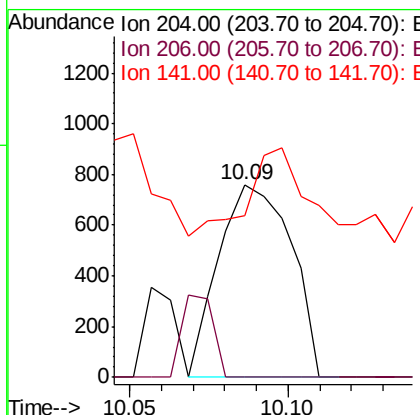
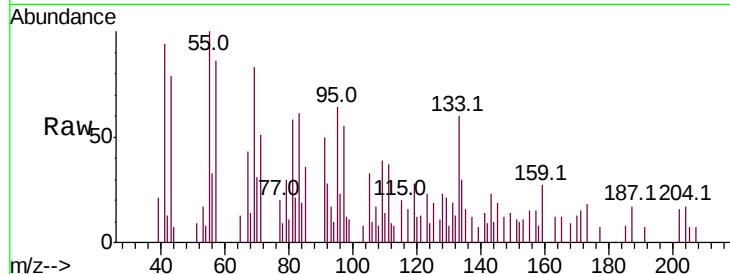




#61
 4-Chlorophenyl-phenylether
 Concen: Below Cal
 RT: 10.09 min Scan# 1360
 Delta R.T. -0.18 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

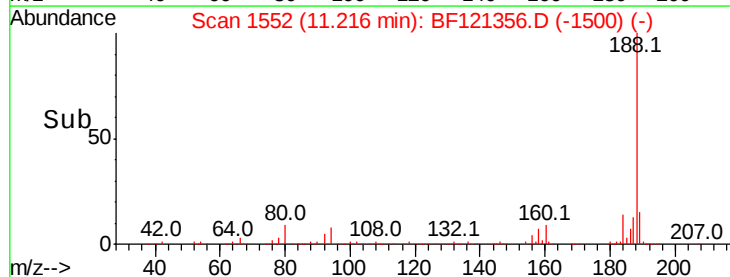
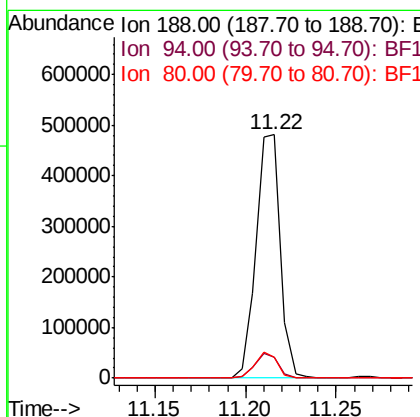
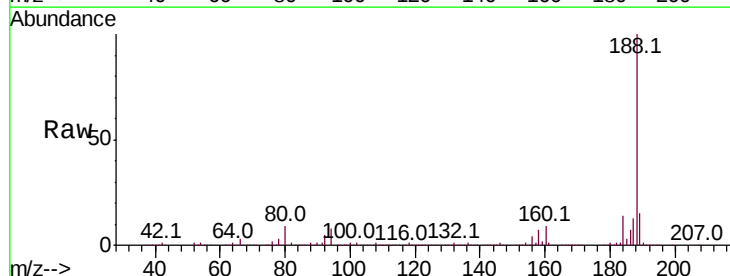
Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

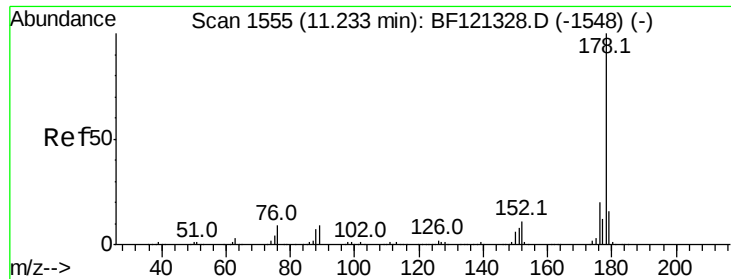
Tot Ion:204 Resp: 1209
 Ion Ratio Lower Upper
 204 100
 206 0.0 25.9 38.9#
 141 84.2 45.5 68.3#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.22 min Scan# 1552
 Delta R.T. 0.01 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Tgt Ion:188 Resp: 448343
 Ion Ratio Lower Upper
 188 100
 94 8.5 7.2 10.8
 80 8.6 7.4 11.0

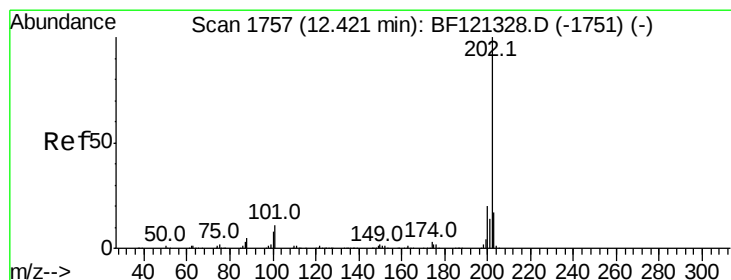
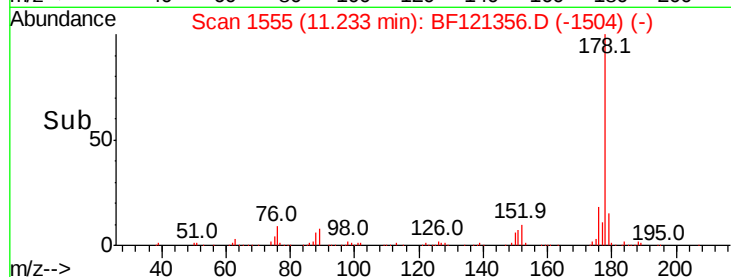
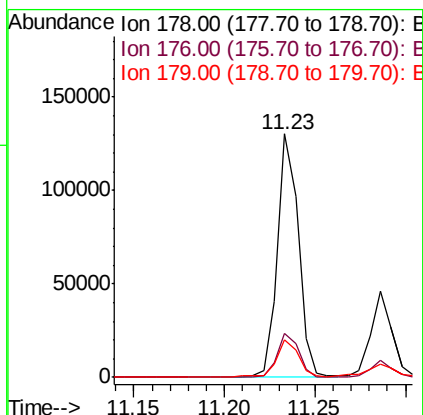
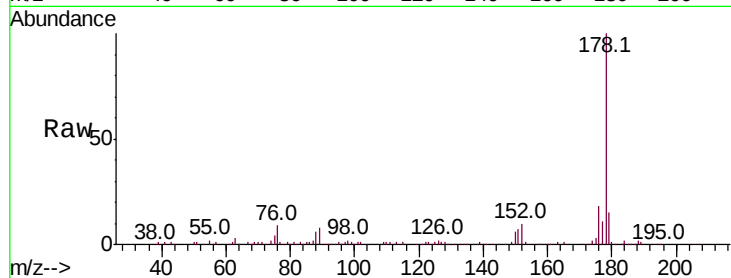




#71
Phenanthrene
Concen: 4.520 ng
RT: 11.23 min Scan# 1555
Delta R.T. 0.00 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

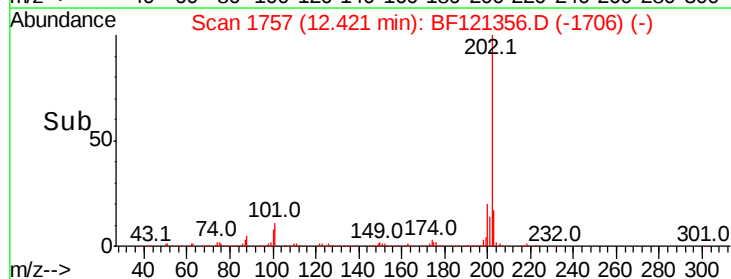
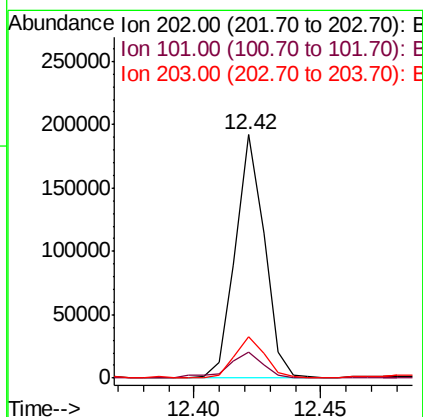
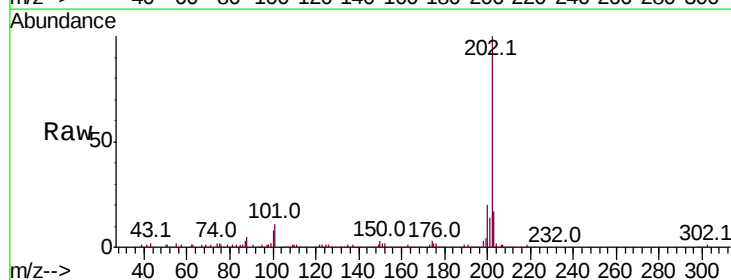
Instrument :
BNA_F
ClientSampleId :
EO-01-081920

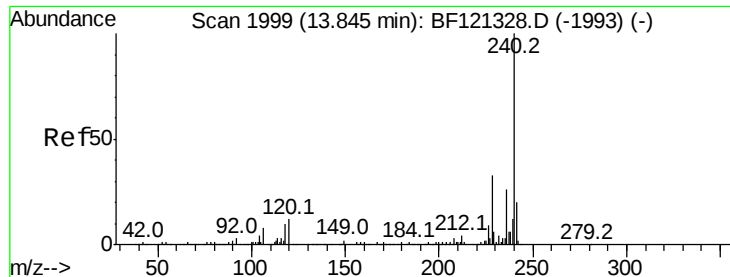
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	16.0	24.0
179	15.3	12.8	19.2



#75
Fluoranthene
Concen: 6.048 ng
RT: 12.42 min Scan# 1757
Delta R.T. 0.00 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	30.6
203	17.0	0.0	37.5

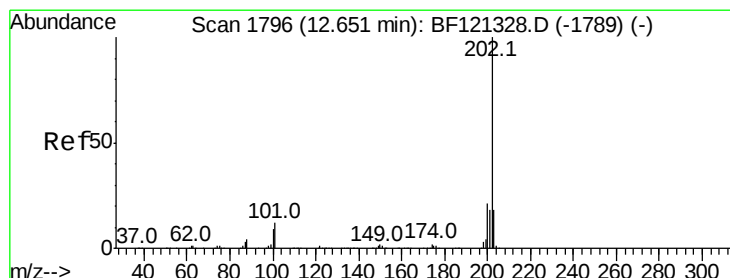
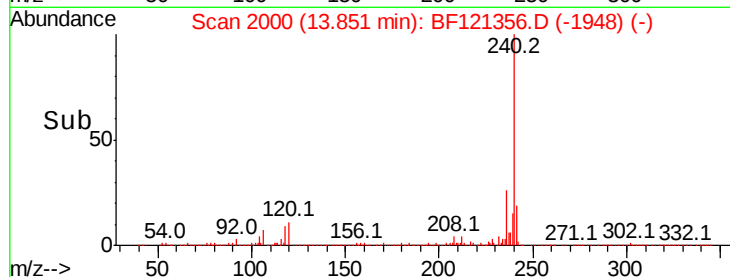
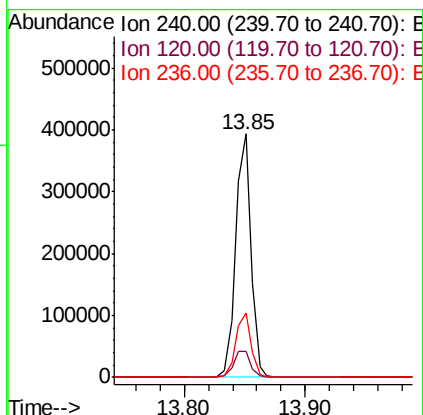
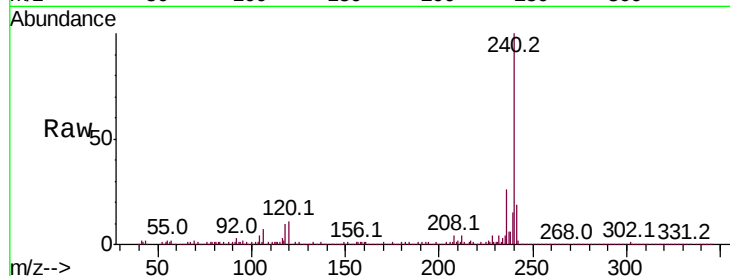




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.85 min Scan# 2000
 Delta R.T. 0.01 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

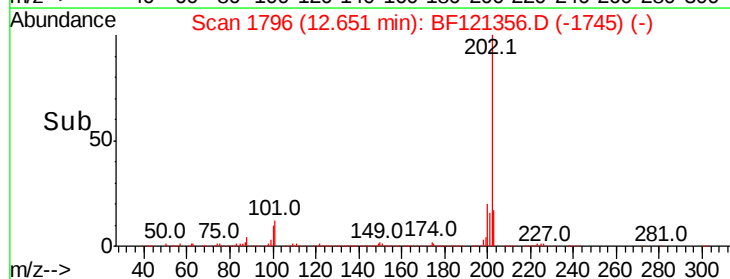
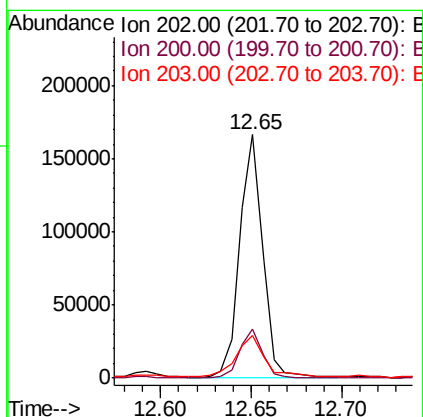
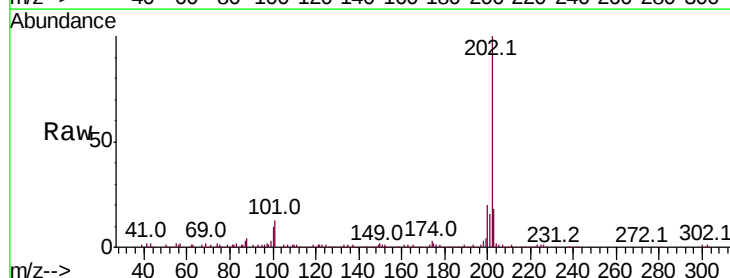
Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

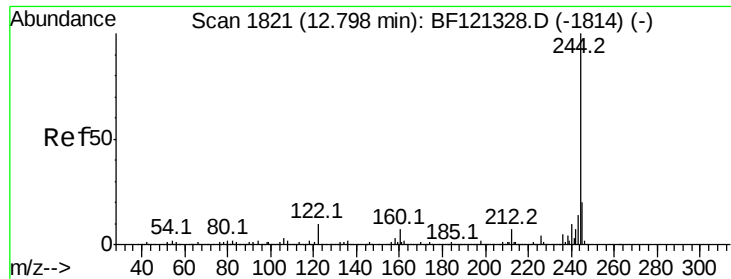
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.6	14.4
236	26.4	20.6	31.0



#78
 Pyrene
 Concen: 5.546 ng
 RT: 12.65 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.6	24.8
203	17.7	14.2	21.2

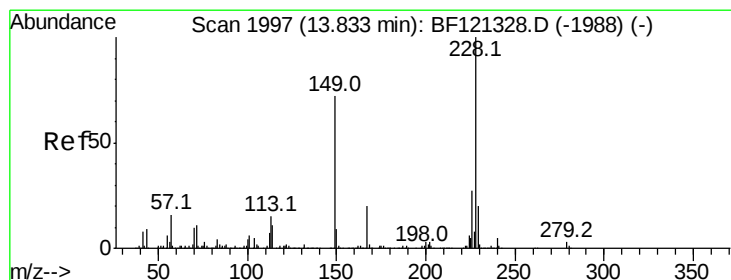
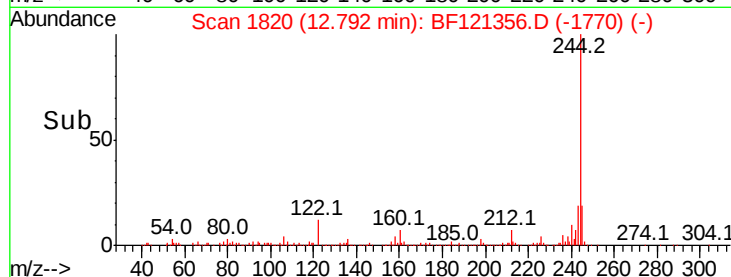
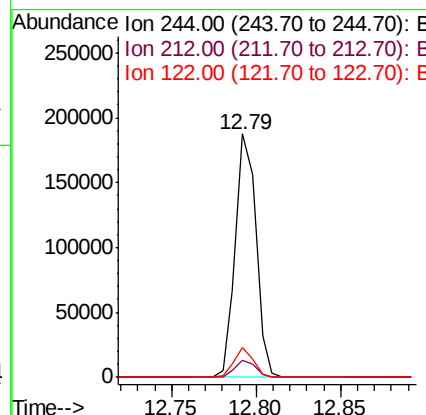
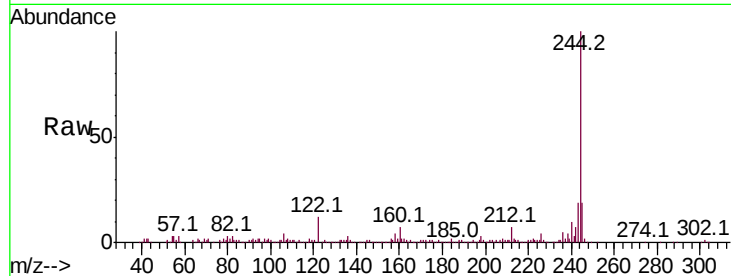




#79
 Terphenyl-d14
 Concen: 8.955 ng
 RT: 12.79 min Scan# 1820
 Delta R.T. -0.01 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

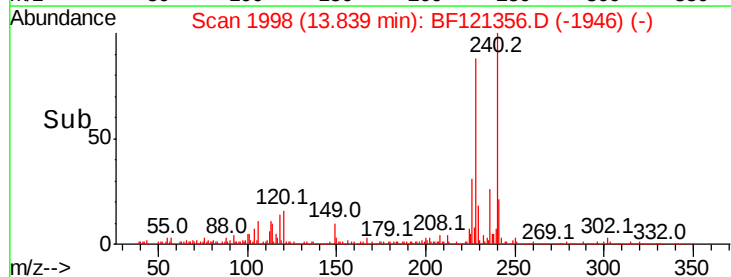
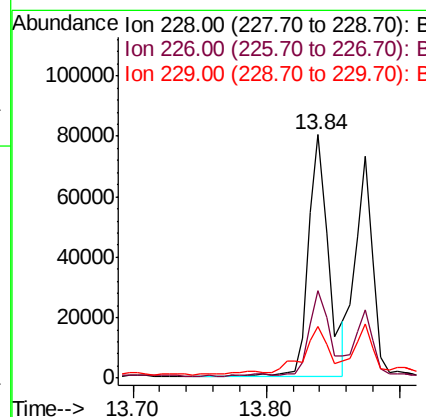
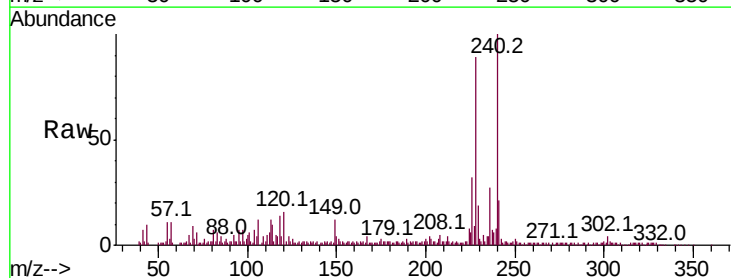
Instrument :
 BNA_F
 ClientSampleId :
 EO-01-081920

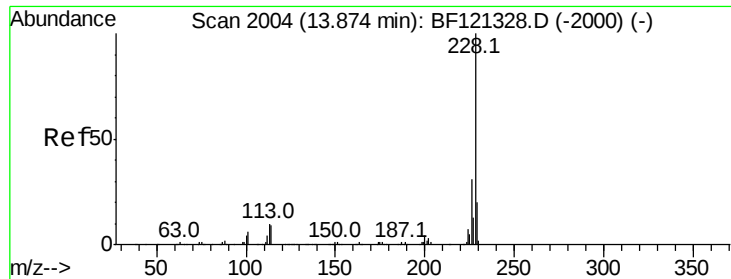
Tot Ion:244 Resp: 159547
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 12.3 7.8 11.8#



#81
 Benzo(a)anthracene
 Concen: 3.784 ng
 RT: 13.84 min Scan# 1998
 Delta R.T. 0.01 min
 Lab File: BF121356.D
 Acq: 20 Aug 2020 19:49

Tgt Ion:228 Resp: 81835
 Ion Ratio Lower Upper
 228 100
 226 35.8 21.8 32.6#
 229 21.2 15.8 23.8

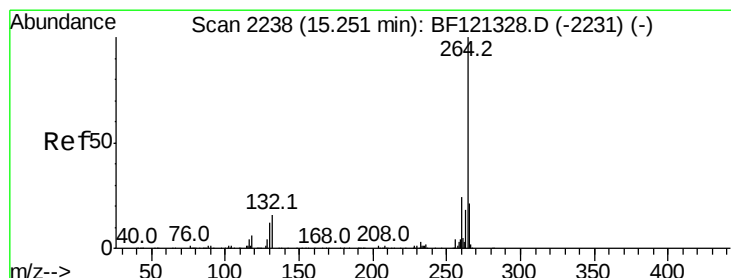
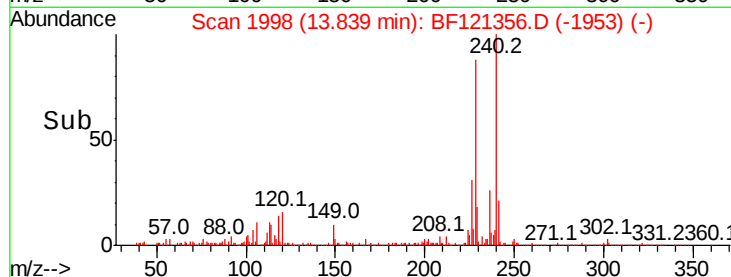
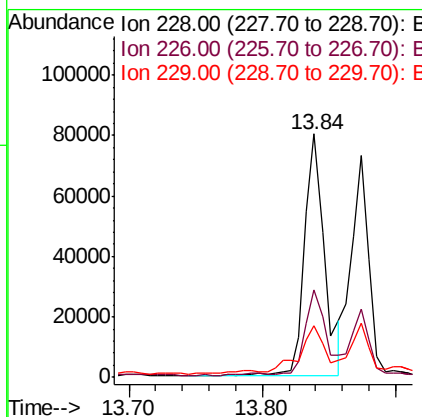
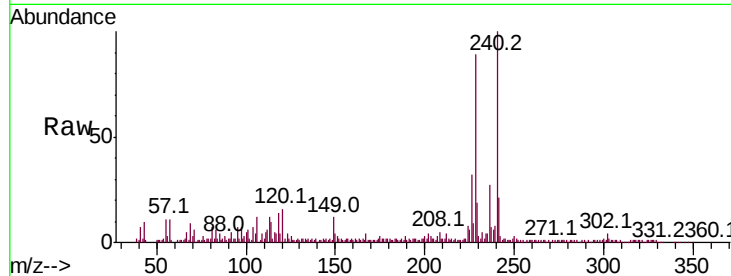




#83
Chrysene
Concen: 3.700 ng
RT: 13.84 min Scan# 1998
Delta R.T. -0.04 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

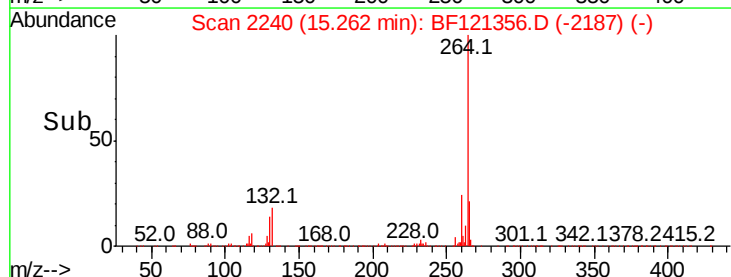
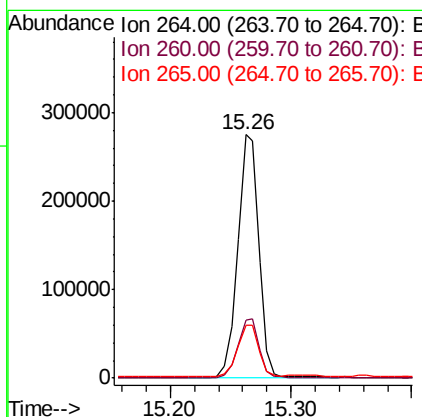
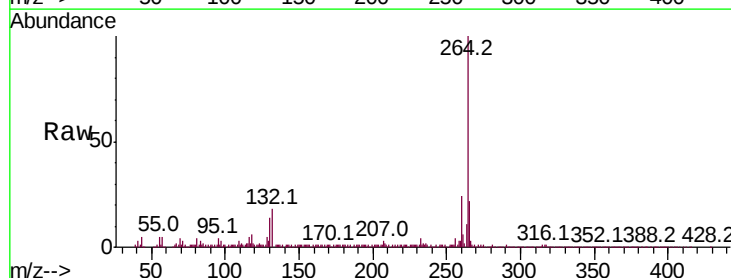
Instrument :
BNA_F
ClientSampleId :
EO-01-081920

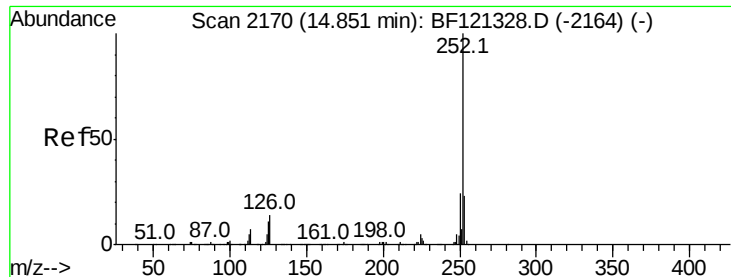
Tot Ion:228 Resp: 81835
Ion Ratio Lower Upper
228 100
226 35.8 24.6 36.8
229 21.2 15.9 23.9



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.01 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

Tgt Ion:264 Resp: 331423
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 21.9 17.1 25.7

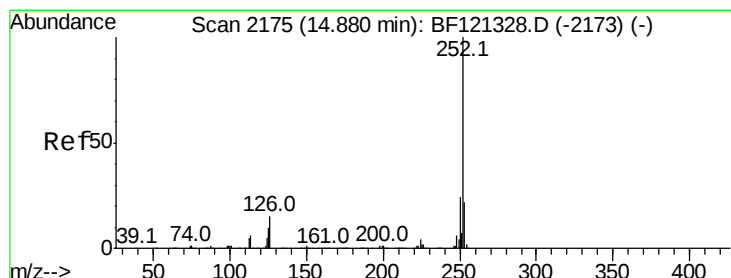
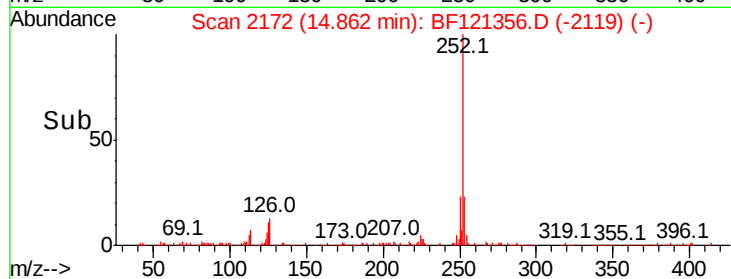
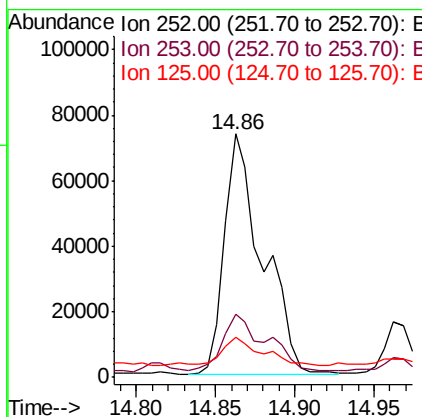
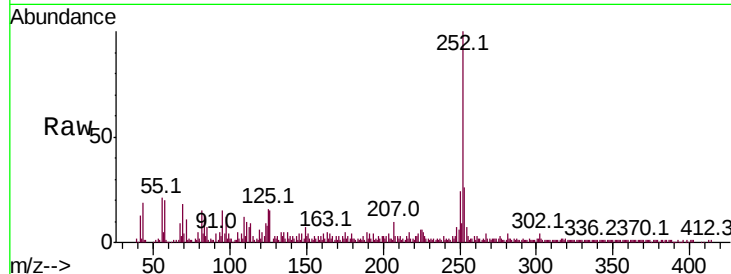




#88
Benzo(b)fluoranthene
Concen: 5.721 ng
RT: 14.86 min Scan# 2172
Delta R.T. 0.01 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

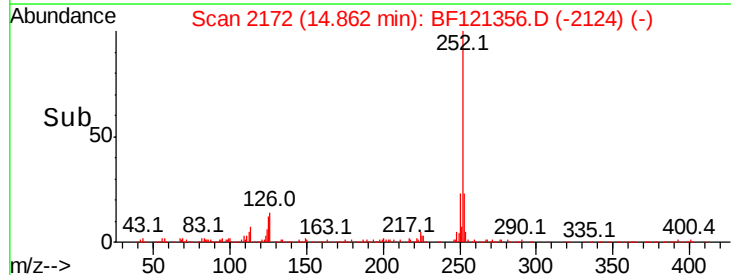
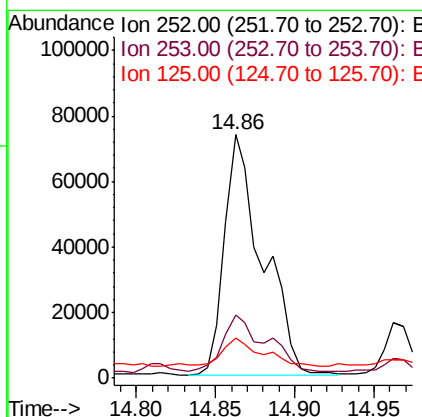
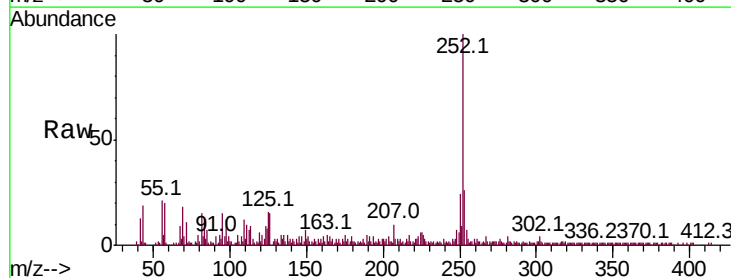
Instrument :
BNA_F
ClientSampleId :
EO-01-081920

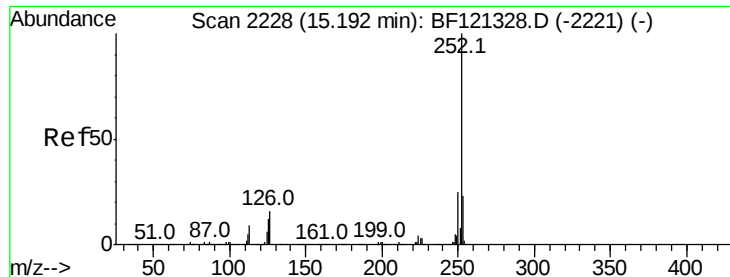
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.0	27.0
125	16.4	8.6	12.8#



#89
Benzo(k)fluoranthene
Concen: 6.499 ng
RT: 14.86 min Scan# 2172
Delta R.T. -0.02 min
Lab File: BF121356.D
Acq: 20 Aug 2020 19:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.9	26.9
125	16.4	8.6	12.8#





#90

Benzo(a)pyrene

Concen: 3.462 ng

RT: 15.20 min Scan# 2230

Delta R.T. 0.01 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

Instrument :

BNA_F

ClientSampleId :

EO-01-081920

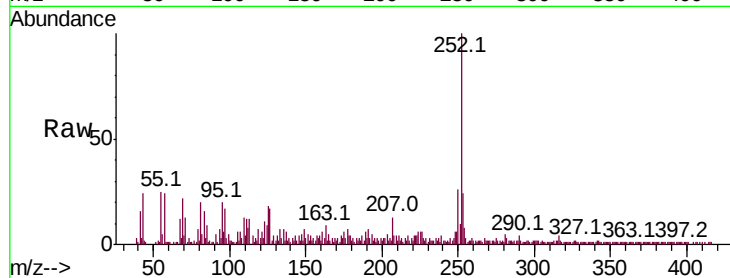
Tot Ion:252 Resp: 64056

Ion Ratio Lower Upper

252 100

253 24.1 18.0 27.0

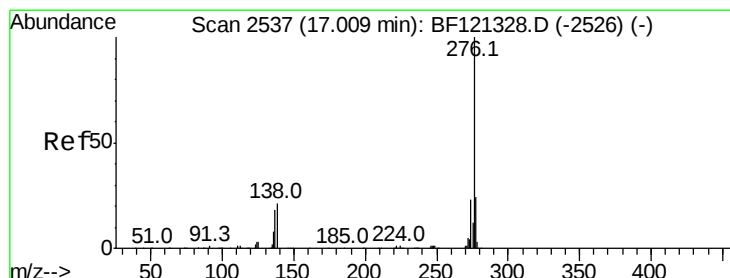
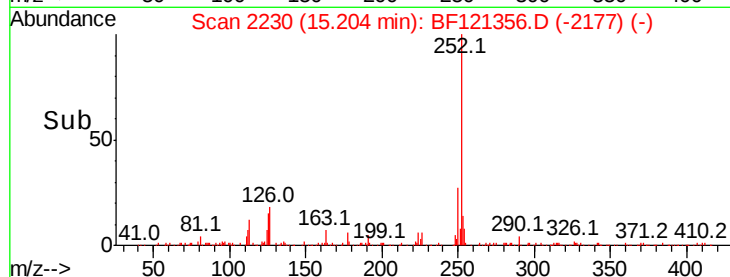
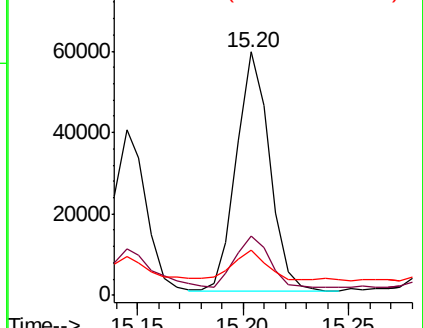
125 18.4 9.4 14.0#



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



#92

Benzo(g,h,i)perylene

Concen: 2.100 ng

RT: 17.03 min Scan# 2541

Delta R.T. 0.02 min

Lab File: BF121356.D

Acq: 20 Aug 2020 19:49

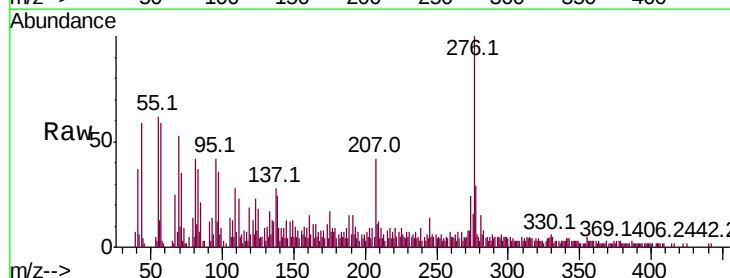
Tgt Ion:276 Resp: 34062

Ion Ratio Lower Upper

276 100

277 29.4 19.3 28.9#

138 23.8 16.8 25.2



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

