

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\
 Data File : BF121355.D
 Acq On : 20 Aug 2020 19:18
 Operator : JU/CG
 Sample : L3499-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Quant Time: Aug 21 00:27:53 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	138456	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	499717	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	230237	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	397717	20.00	ng	0.00
76) Chrysene-d12	13.86	240	328039	20.00	ng	0.01
86) Perylene-d12	15.27	264	326473	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	132143	15.65	ng	0.00
7) Phenol-d6	6.33	99	162092	15.04	ng	0.00
23) Nitrobenzene-d5	7.26	82	91754	10.38	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	34410	12.83	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	196702	4.10	ng	0.00
79) Terphenyl-d14	12.80	244	181948	10.84	ng	0.00

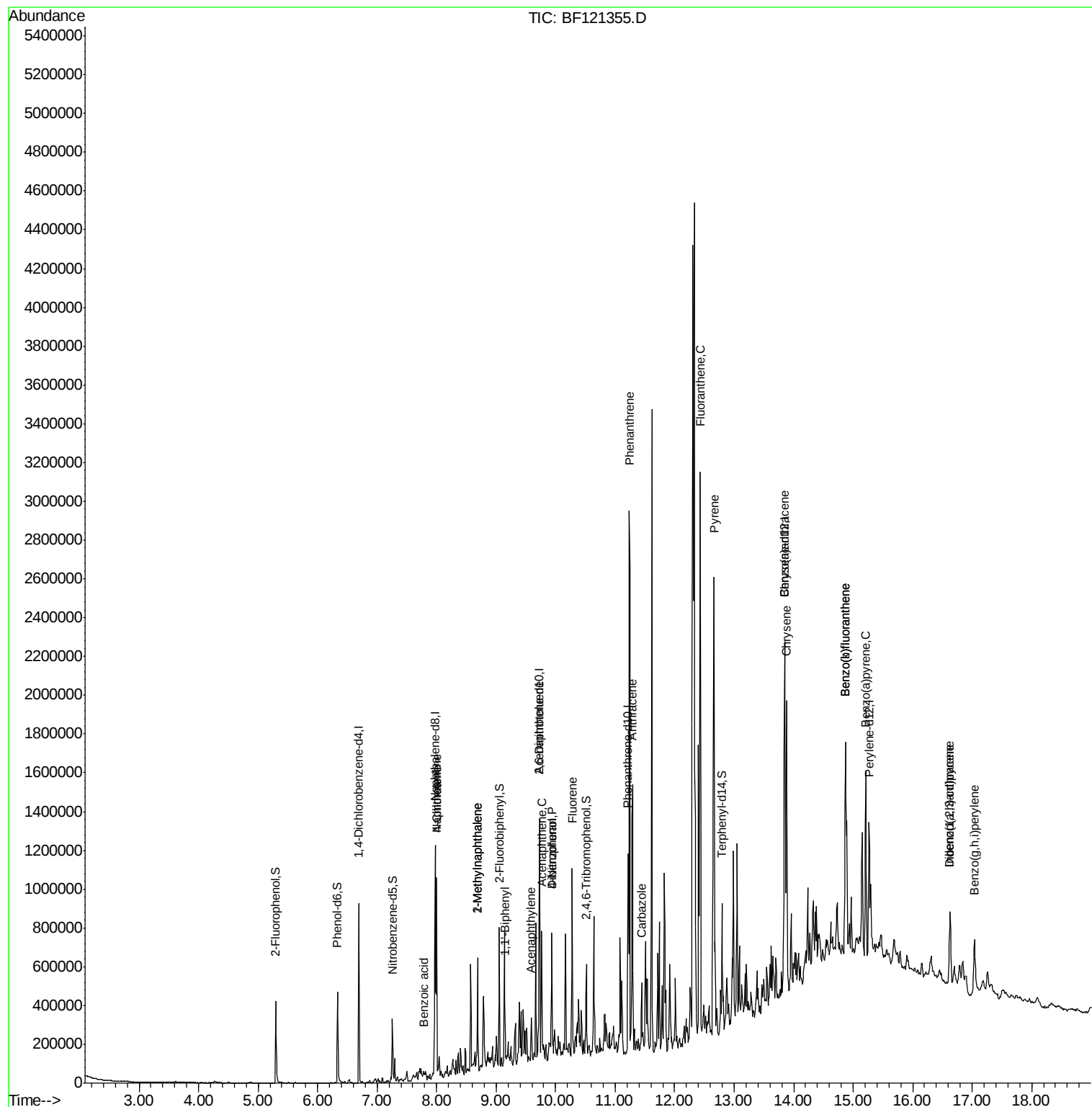
Target Compounds				Qvalue		
20) 3+4-Methylphenols	7.14	107	475	Below Cal	#	49
31) Naphthalene	8.00	128	425975	17.128	ng	100
32) Benzoic acid	7.79	122	636	7.171	ng	50
33) 4-Chloroaniline	8.00	127	55831	5.070	ng	32
37) 2-Methylnaphthalene	8.69	142	143944	8.930	ng	99
38) 1-Methylnaphthalene	8.69	142	143944	9.391	ng	95
46) 1,1'-Biphenyl	9.15	154	42896	2.486	ng	96
49) Acenaphthylene	9.59	152	70223	3.325	ng	98
51) 2,6-Dinitrotoluene	9.73	165	37226	10.406	ng	# 31
52) Acenaphthene	9.76	154	131644	10.260	ng	99
55) Dibenzofuran	9.93	168	198408	7.631	ng	99
56) 4-Nitrophenol	9.93	139	69164	25.061	ng	# 11
58) Fluorene	10.27	166	264618	18.306	ng	99
61) 4-Chlorophenyl-phenylether	10.12	204	523	Below Cal	#	1
71) Phenanthrene	11.24	178	1163409	56.520	ng	99
72) Anthracene	11.29	178	538090	27.146	ng	99
73) Carbazole	11.44	167	126037	6.663	ng	99
75) Fluoranthene	12.43	202	1280116	57.297	ng	98
78) Pyrene	12.66	202	1174397	47.660	ng	99
81) Benzo(a)anthracene	13.84	228	725790	35.622	ng	96
83) Chrysene	13.88	228	574664	27.577	ng	96
87) Indeno(1,2,3-cd)pyrene	16.63	276	243507	12.219	ng	97
88) Benzo(b)fluoranthene	14.87	252	899108	42.629	ng	97
89) Benzo(k)fluoranthene	14.87	252	899108	48.427	ng	97
90) Benzo(a)pyrene	15.21	252	496992	27.271	ng	98
91) Dibenzo(a,h)anthracene	16.63	278	69393	4.247	ng	# 84
92) Benzo(g,h,i)perylene	17.04	276	220847	13.825	ng	98

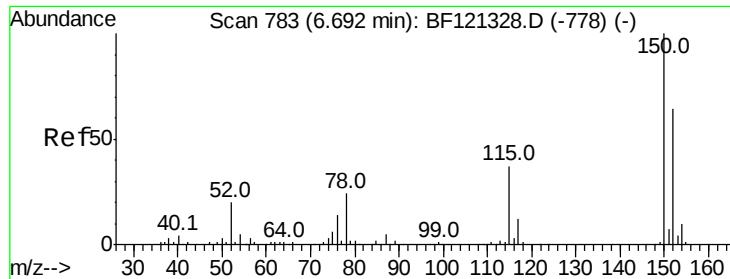
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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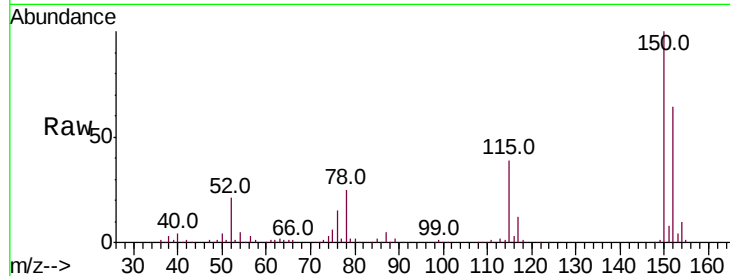


#1

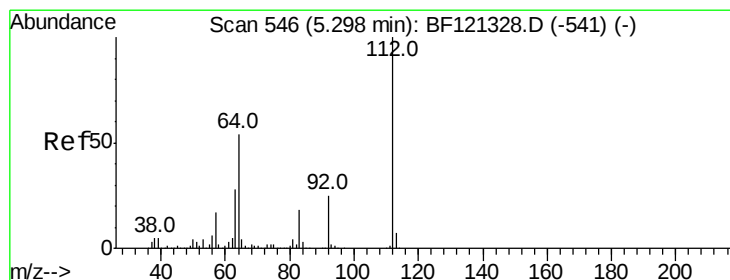
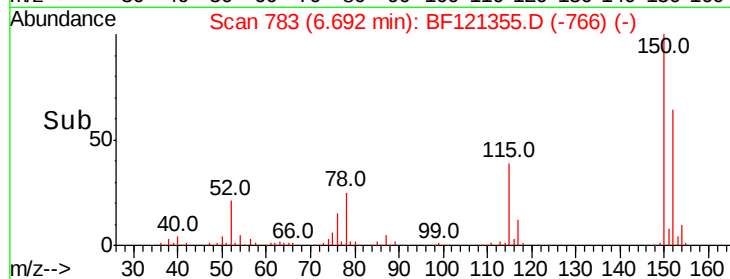
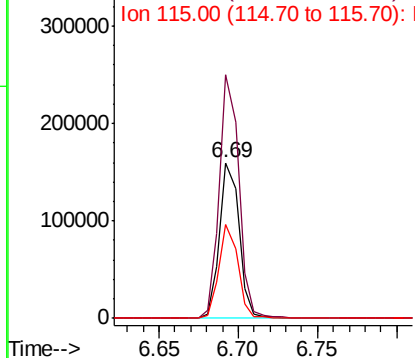
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
ClientSampleId :
HD-01-081820

Tot Ion:152 Resp: 138456
Ion Ratio Lower Upper
152 100
150 156.2 124.8 187.2
115 60.2 46.1 69.1



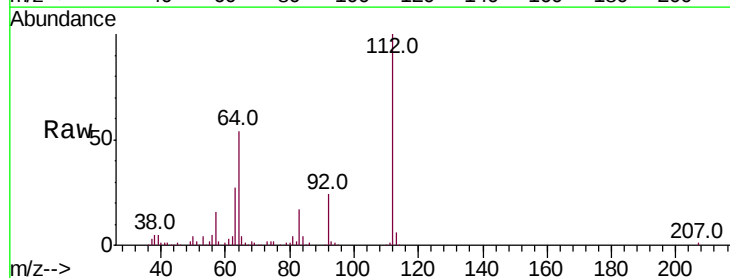
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



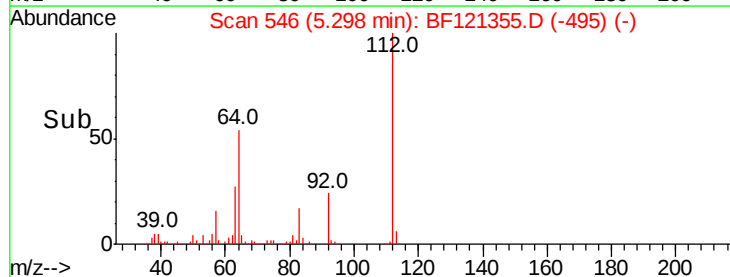
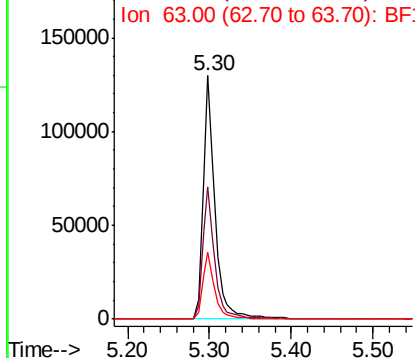
#5

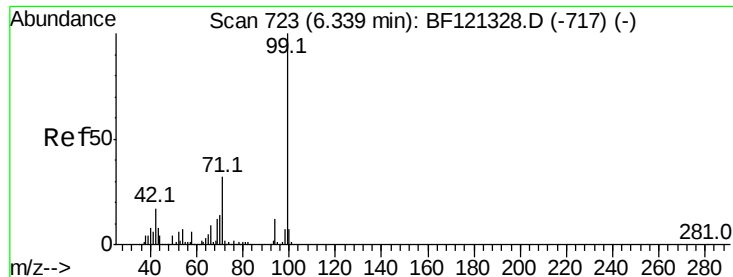
2-Fluorophenol
Concen: 15.650 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion:112 Resp: 132143
Ion Ratio Lower Upper
112 100
64 54.4 43.5 65.3
63 27.4 22.0 33.0



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: 15.037 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

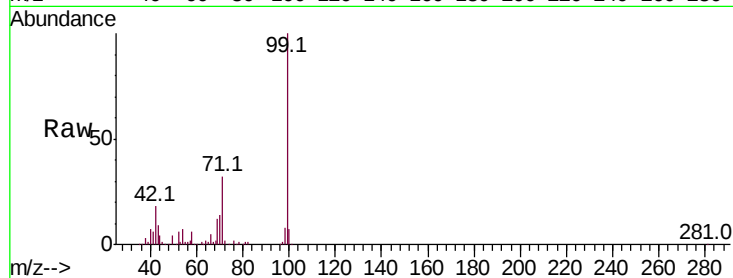
Tot Ion: 99 Resp: 162092

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

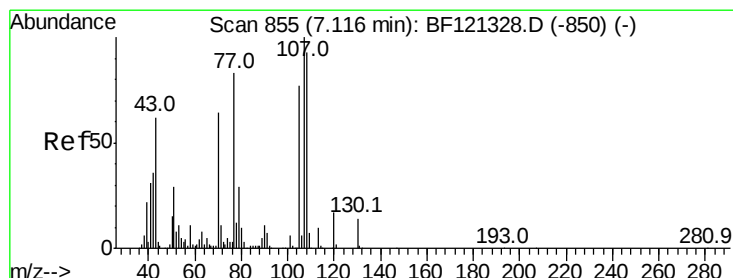
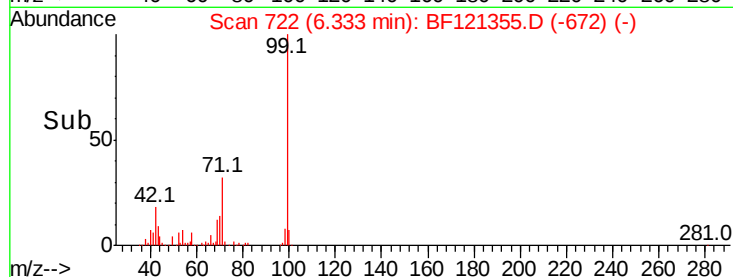
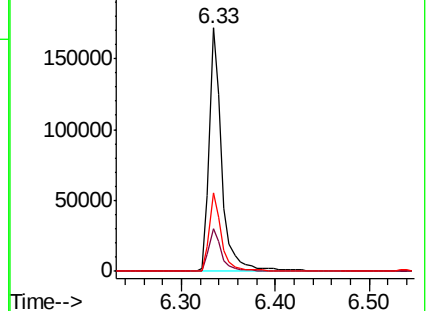
71 32.0 25.2 37.8



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: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion: 107 Resp: 475

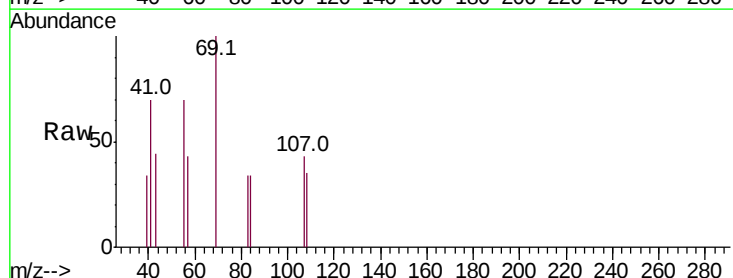
Ion Ratio Lower Upper

107 100

108 80.6 72.6 112.6

77 0.0 63.8 103.8#

79 0.0 9.1 49.1#

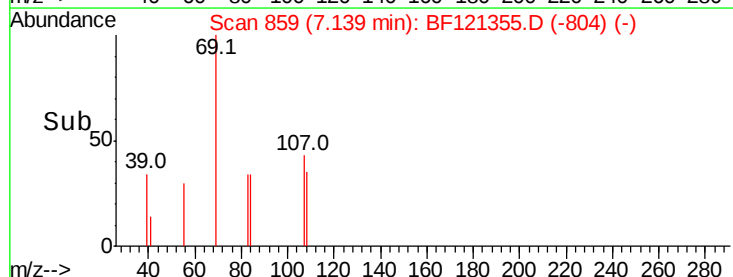
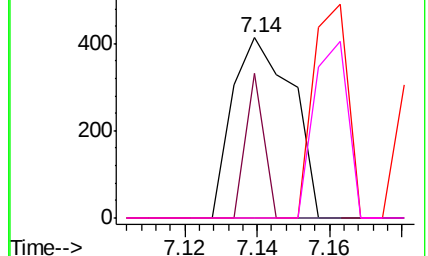


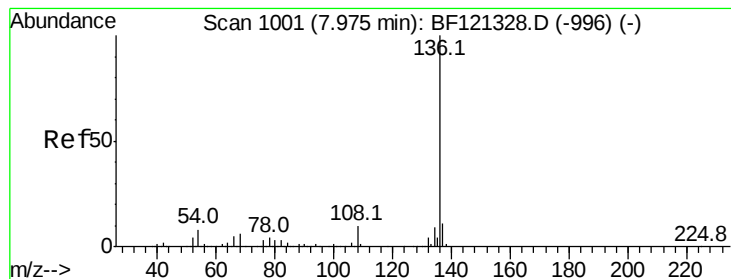
Abundance Ion 107.00 (106.70 to 107.70): E

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: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

Tot Ion:136 Resp: 499717

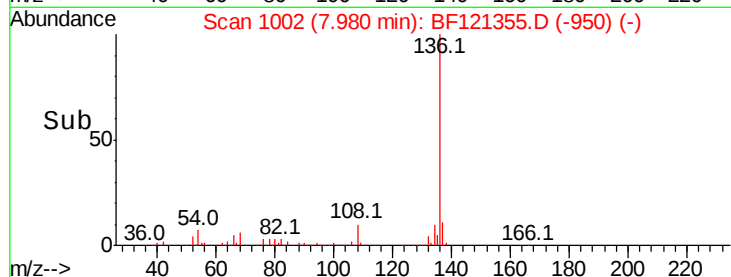
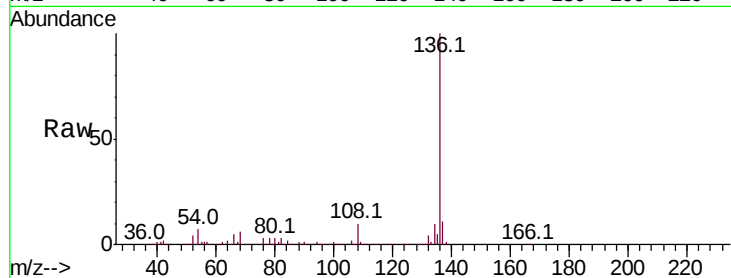
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 7.3 6.1 9.1

68 5.9 5.0 7.4

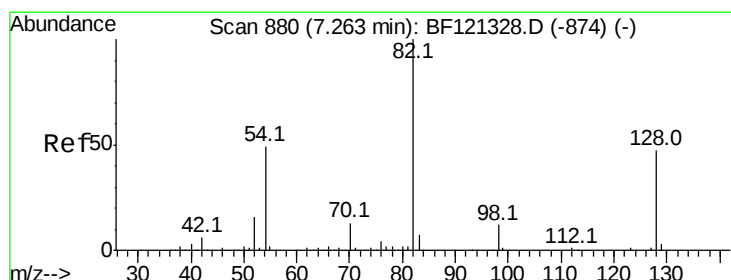
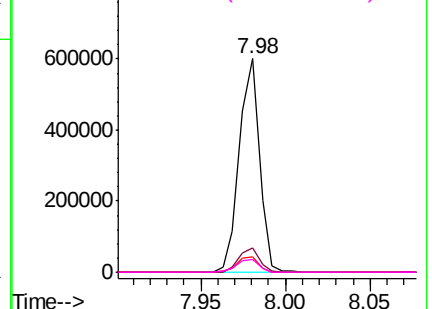


Abundance Ion 136.00 (135.70 to 136.70): E

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: 10.384 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

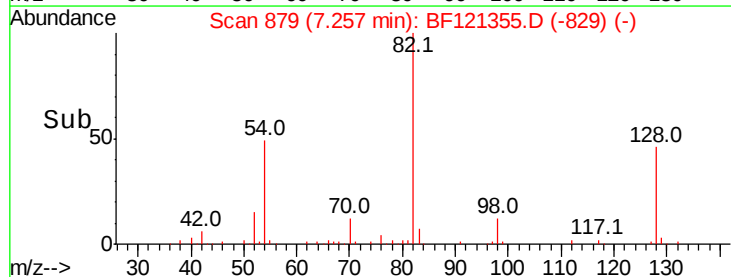
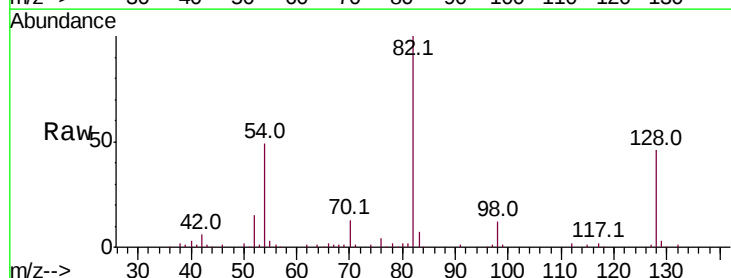
Tgt Ion: 82 Resp: 91754

Ion Ratio Lower Upper

82 100

128 46.1 37.9 56.9

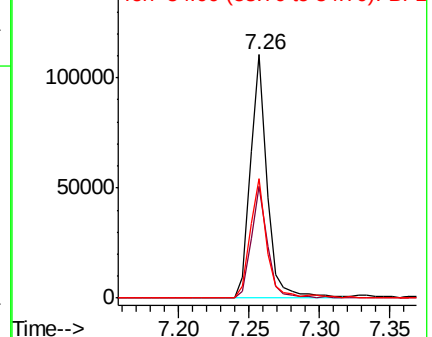
54 49.0 39.0 58.4

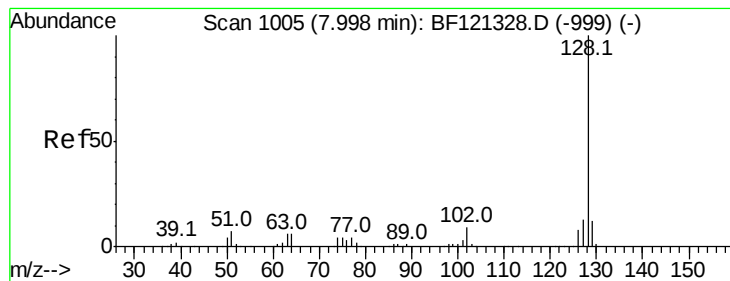


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 17.128 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

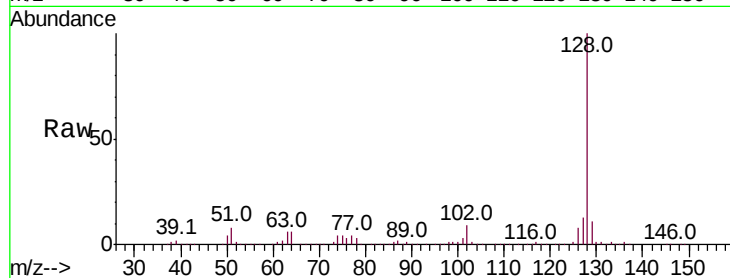
Tot Ion:128 Resp: 425975

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

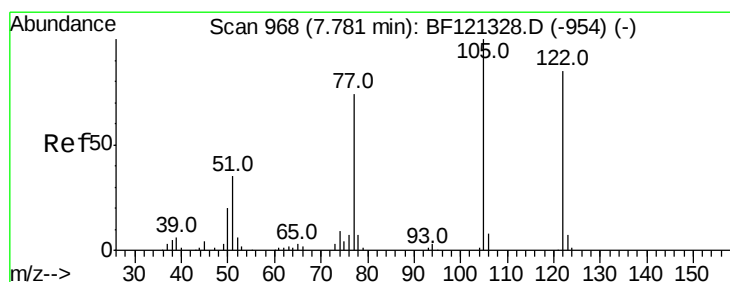
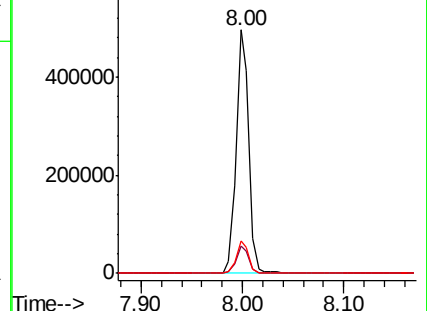
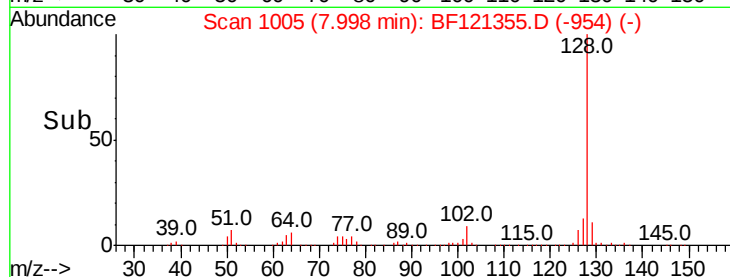
127 13.2 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 7.171 ng

RT: 7.79 min Scan# 969

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

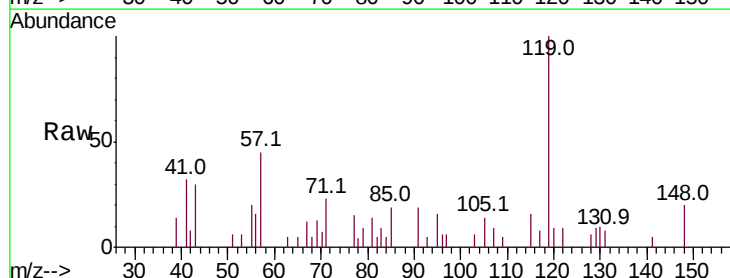
Tgt Ion:122 Resp: 636

Ion Ratio Lower Upper

122 100

105 145.1 96.7 136.7#

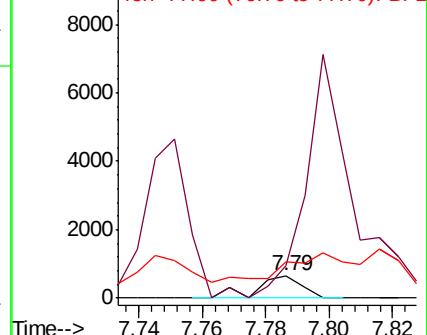
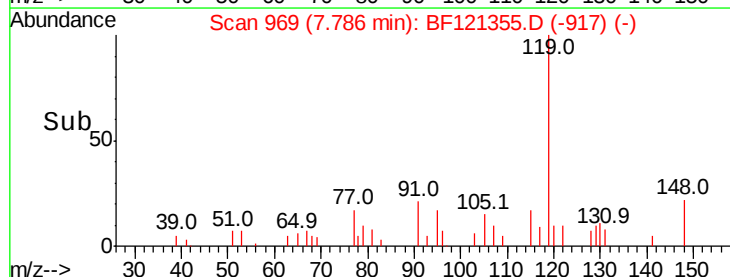
77 162.6 66.7 106.7#

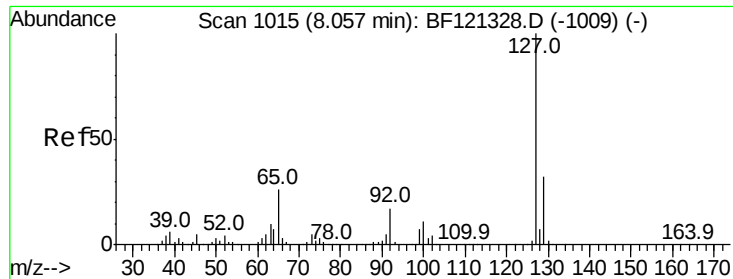


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

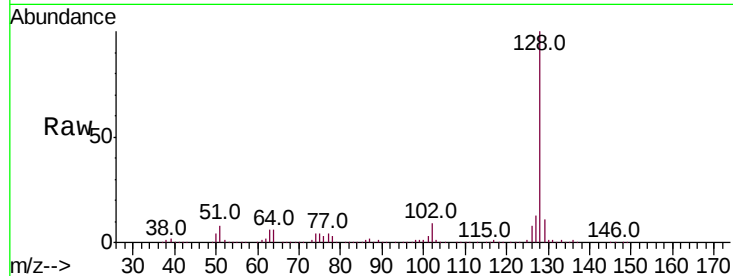




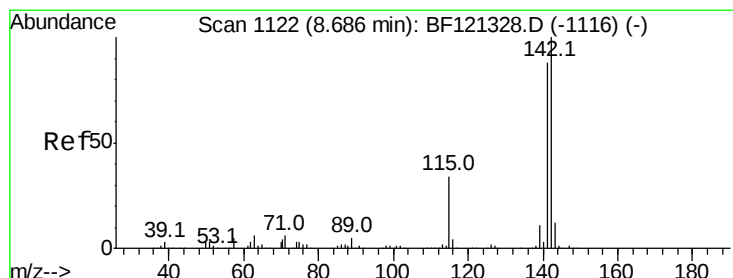
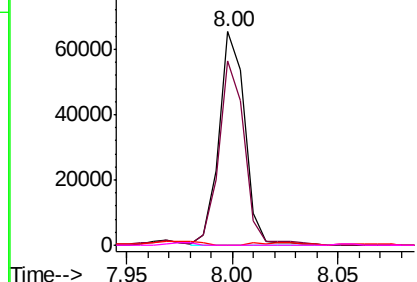
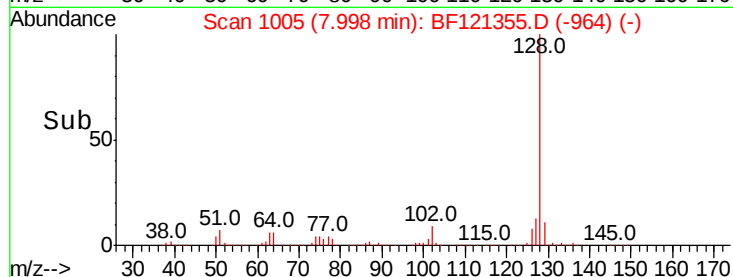
#33
4-Chloroaniline
Concen: 5.070 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.06 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Instrument :
BNA_F
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HD-01-081820

Tot Ion:127 Resp: 55831
Ion Ratio Lower Upper
127 100
129 86.0 25.7 38.5#
65 0.0 20.9 31.3#
92 0.0 13.8 20.8#

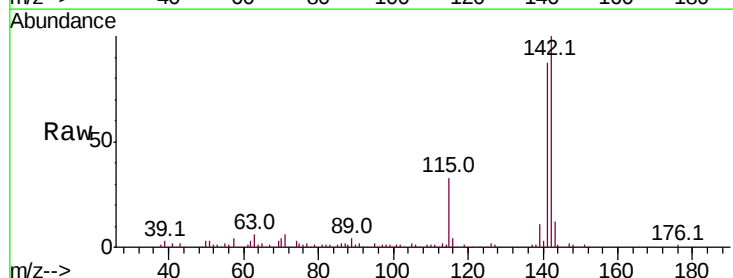


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1

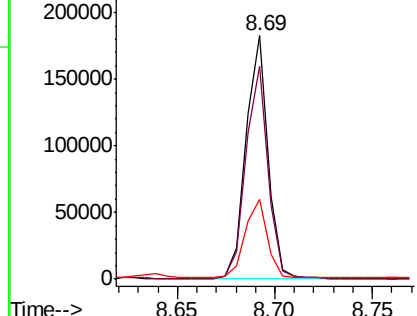
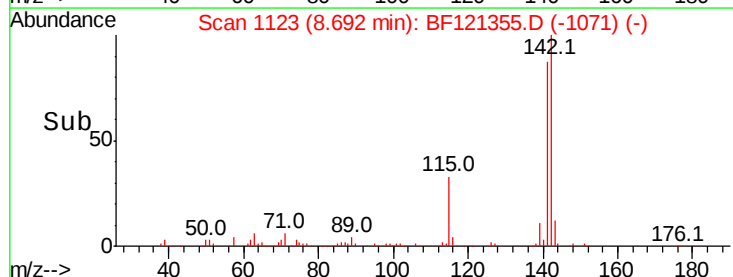


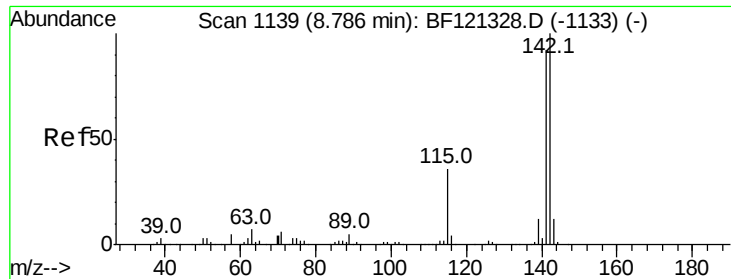
#37
2-Methylnaphthalene
Concen: 8.930 ng
RT: 8.69 min Scan# 1123
Delta R.T. 0.01 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion:142 Resp: 143944
Ion Ratio Lower Upper
142 100
141 87.4 70.3 105.5
115 32.8 26.9 40.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

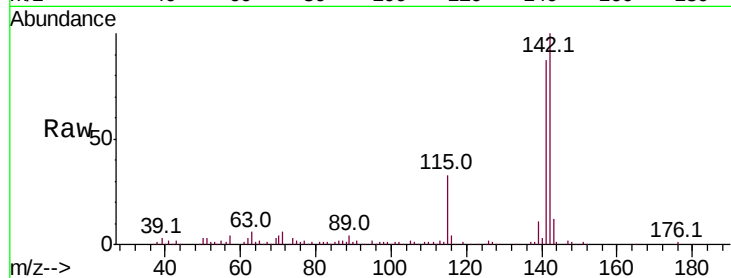




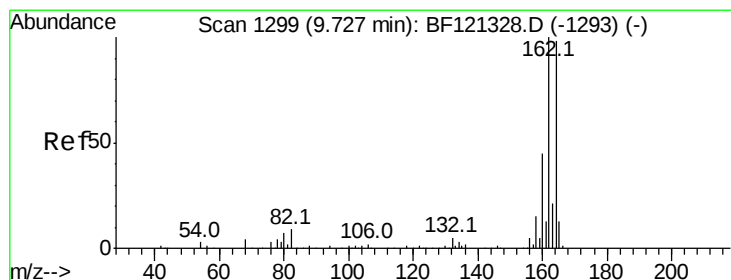
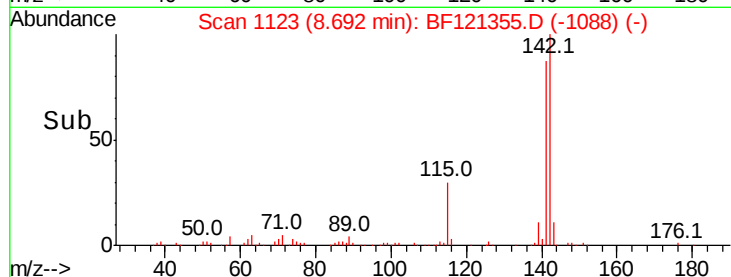
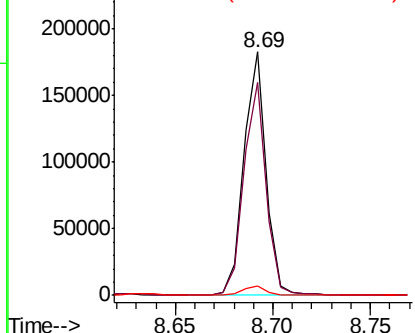
#38
 1-Methylnaphthalene
 Concen: 9.391 ng
 RT: 8.69 min Scan# 1123
 Delta R.T. -0.09 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion:142 Resp: 143944
 Ion Ratio Lower Upper
 142 100
 141 87.4 73.6 110.4
 116 3.7 3.0 4.4

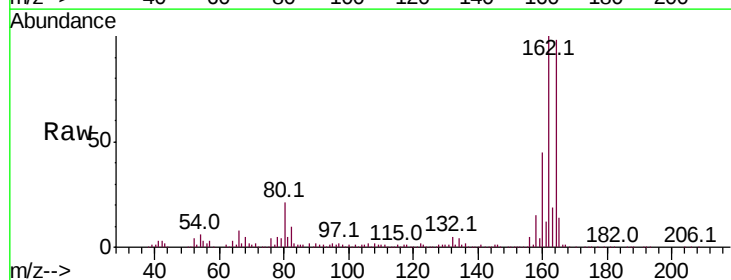


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 116.00 (115.70 to 116.70): E

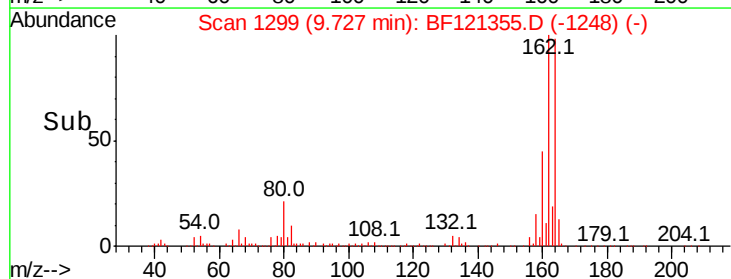
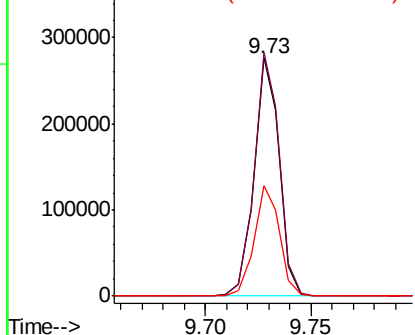


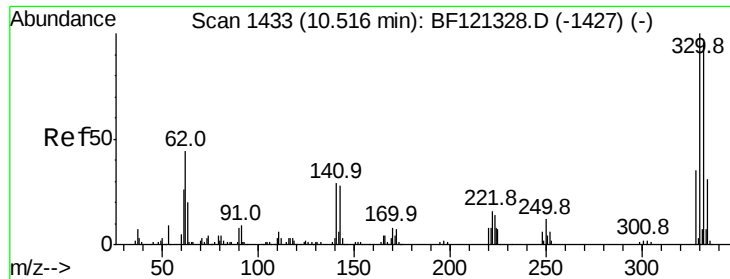
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion:164 Resp: 230237
 Ion Ratio Lower Upper
 164 100
 162 102.2 81.7 122.5
 160 46.2 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

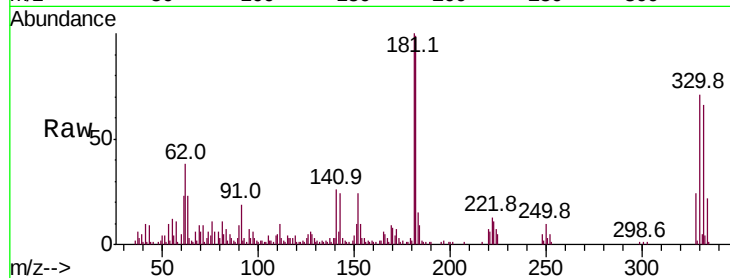




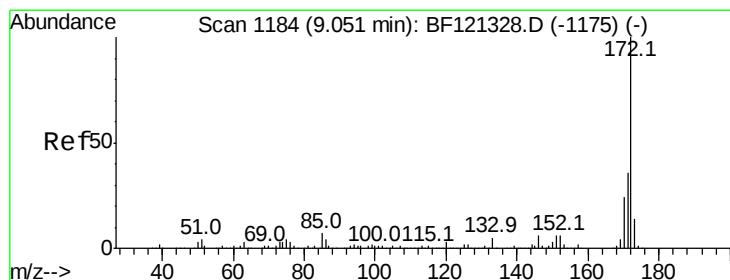
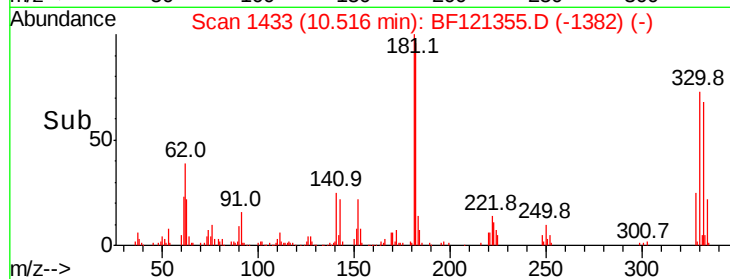
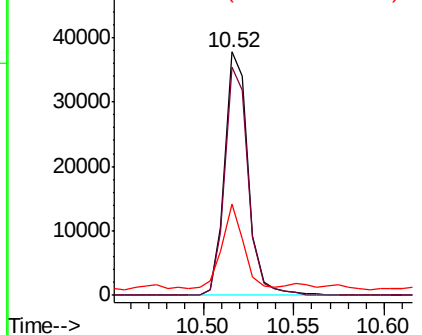
#42
 2,4,6-Tribromophenol
 Concen: 12.825 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion:330 Resp: 34410
 Ion Ratio Lower Upper
 330 100
 332 93.2 76.9 115.3
 141 30.8 22.8 34.2

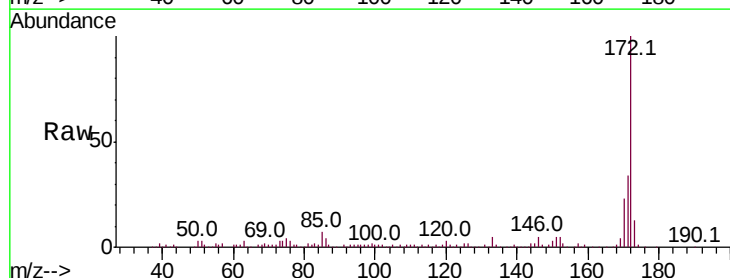


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

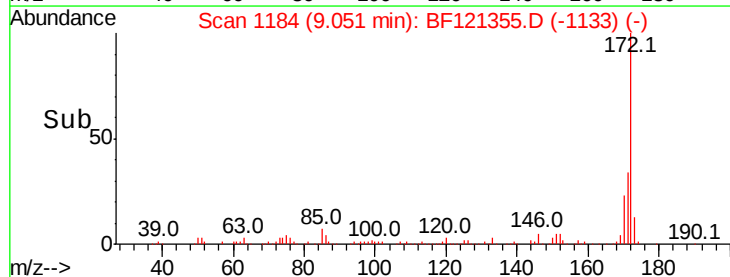
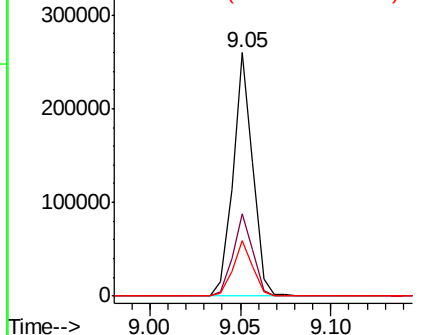


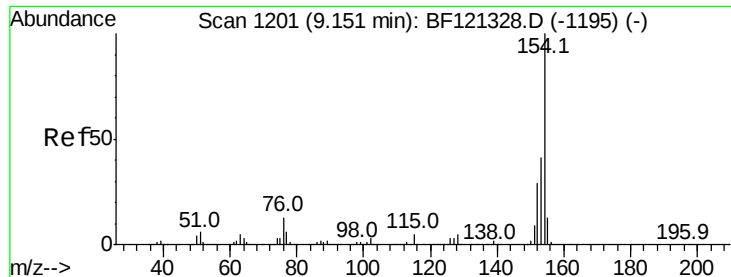
#45
 2-Fluorobiphenyl
 Concen: 4.096 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion:172 Resp: 196702
 Ion Ratio Lower Upper
 172 100
 171 34.0 29.0 43.6
 170 22.9 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

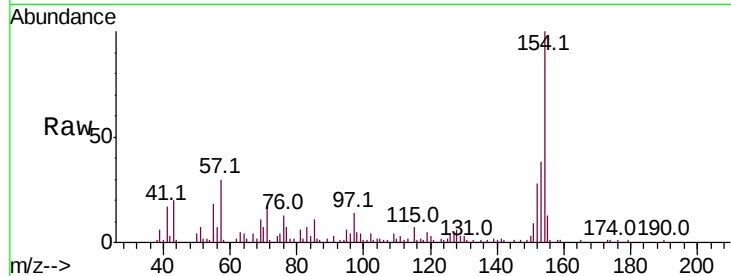




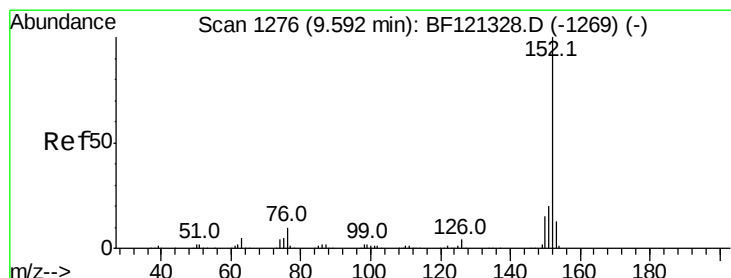
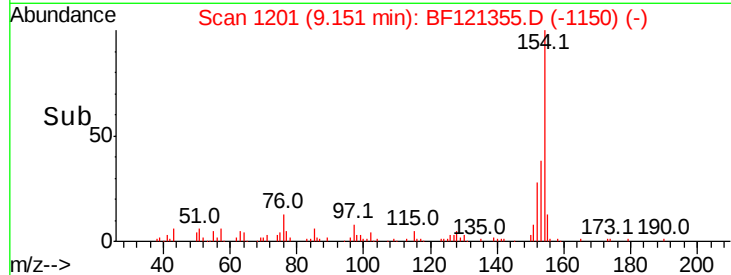
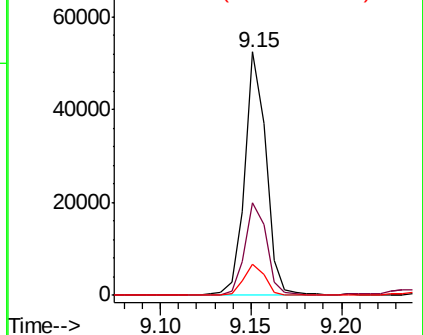
#46
 1,1'-Biphenyl
 Concen: 2.486 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion:154	Resp:	42896
Ion Ratio	Lower	Upper
154	100	
153	37.8	20.8 60.8
76	12.7	0.0 33.1

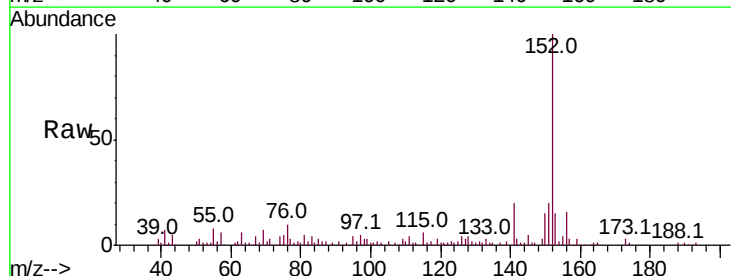


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF1

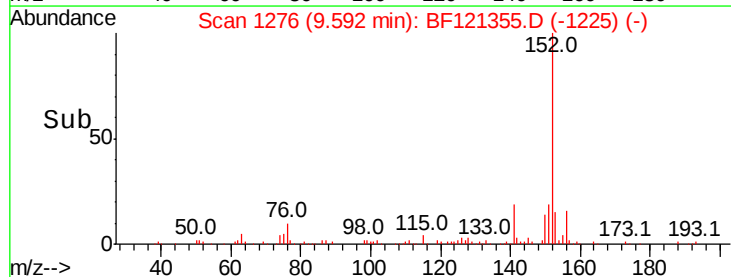
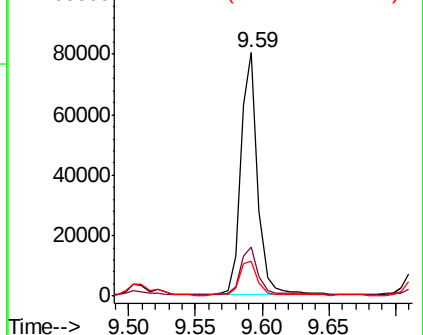


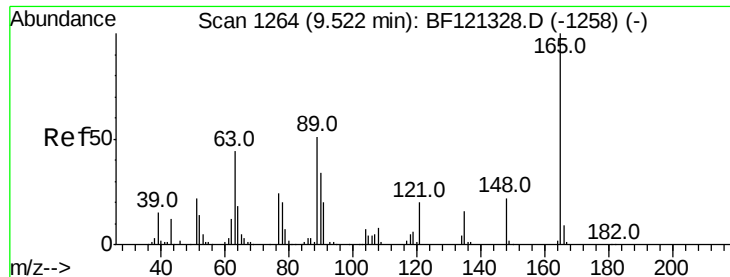
#49
 Acenaphthylene
 Concen: 3.325 ng
 RT: 9.59 min Scan# 1276
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion:152	Resp:	70223
Ion Ratio	Lower	Upper
152	100	
151	20.0	16.4 24.6
153	14.6	10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E

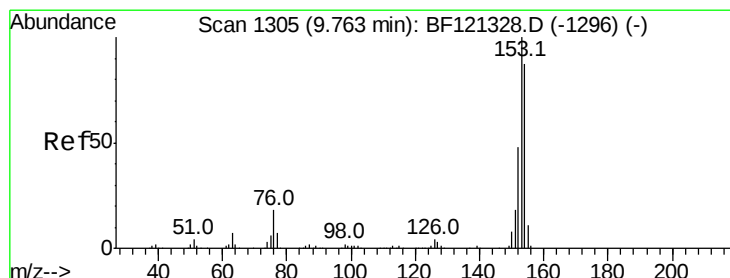
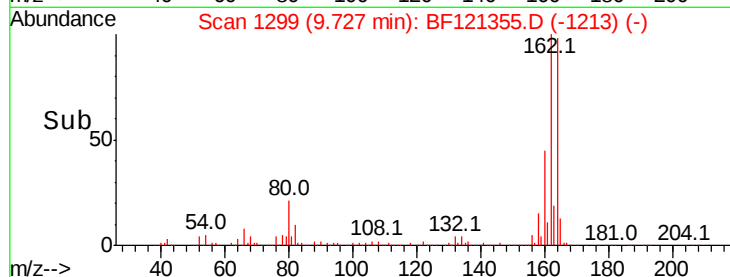
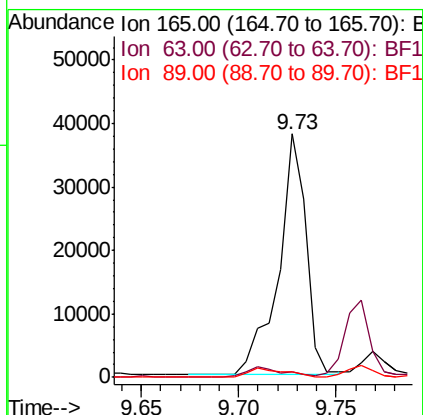
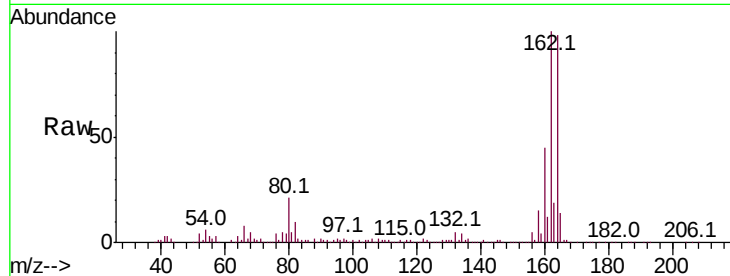




#51
 2,6-Dinitrotoluene
 Concen: 10.406 ng
 RT: 9.73 min Scan# 1299
 Delta R.T. 0.21 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

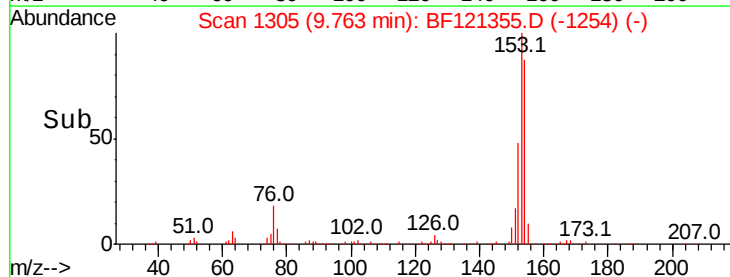
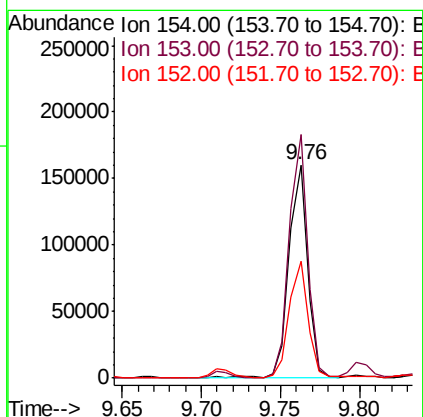
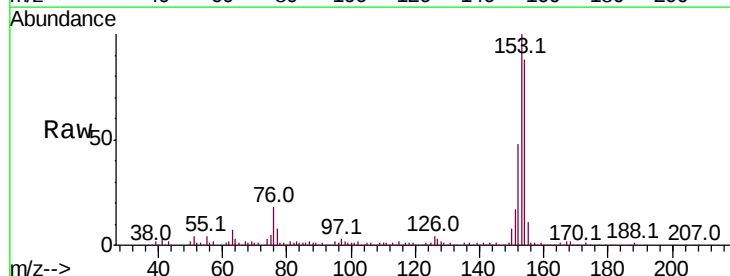
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

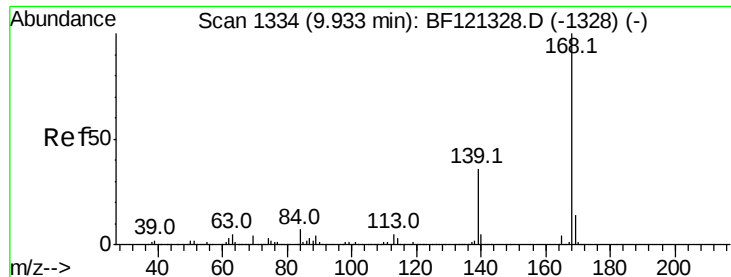
Tot Ion:165 Resp: 37226
 Ion Ratio Lower Upper
 165 100
 63 2.1 38.5 57.7#
 89 2.3 41.2 61.8#



#52
 Acenaphthene
 Concen: 10.260 ng
 RT: 9.76 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Tgt Ion:154 Resp: 131644
 Ion Ratio Lower Upper
 154 100
 153 114.3 92.0 138.0
 152 54.6 44.6 66.8

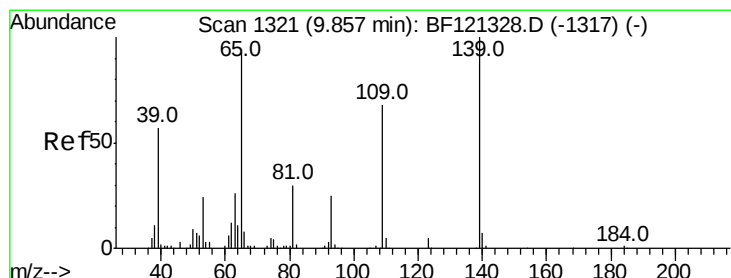
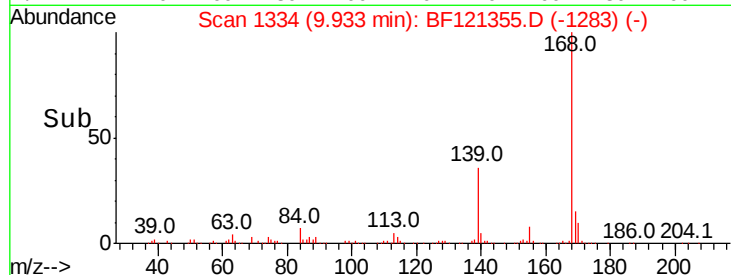
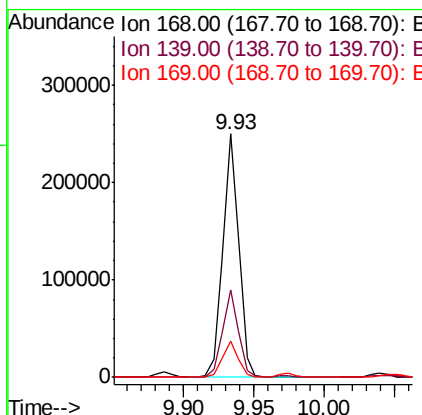
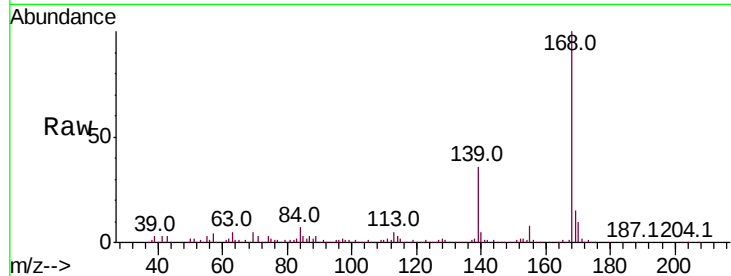




#55
Dibenzofuran
Concen: 7.631 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.00 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

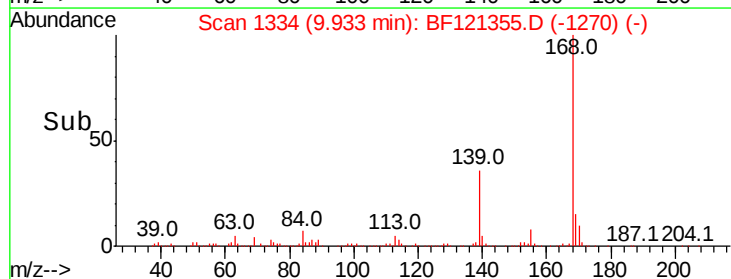
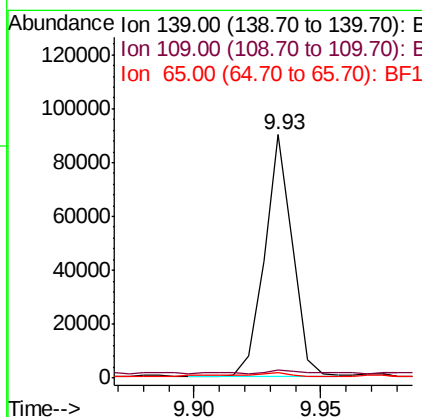
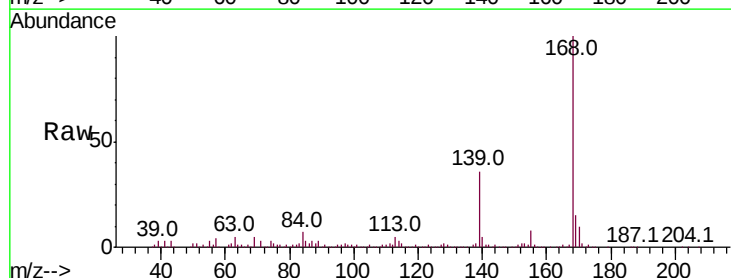
Instrument :
BNA_F
ClientSampleId :
HD-01-081820

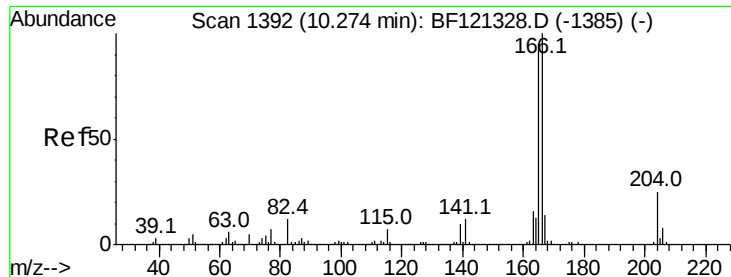
Tot Ion	Ratio	Lower	Upper
168	100		
139	36.1	29.1	43.7
169	14.9	11.0	16.6



#56
4-Nitrophenol
Concen: 25.061 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.08 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
139	100		
109	3.2	47.7	87.7#
65	2.1	73.2	113.2#





#58

Fluorene

Concen: 18.306 ng

RT: 10.27 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

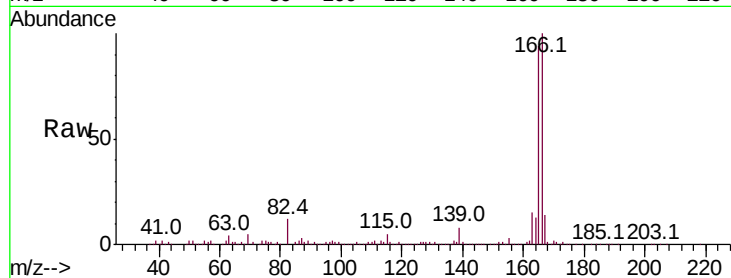
Tot Ion:166 Resp: 264618

Ion Ratio Lower Upper

166 100

165 94.4 75.8 113.8

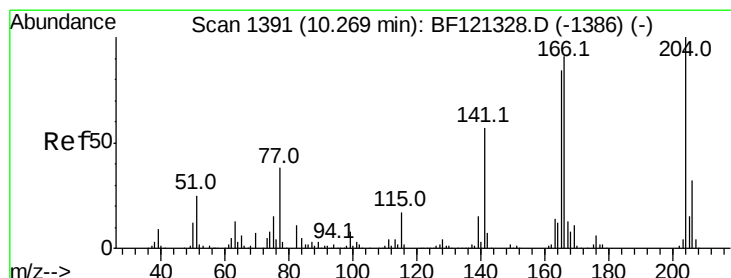
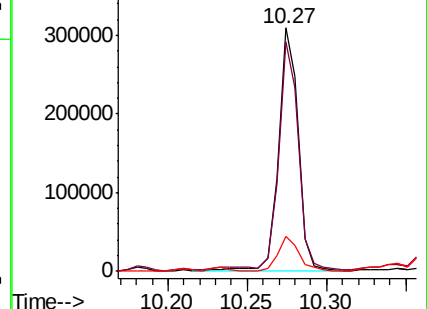
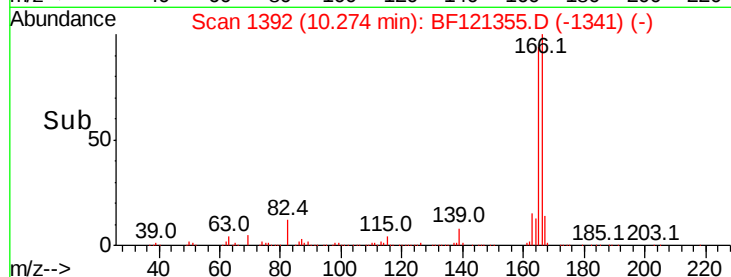
167 14.5 11.0 16.4



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: 10.12 min Scan# 1366

Delta R.T. -0.15 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

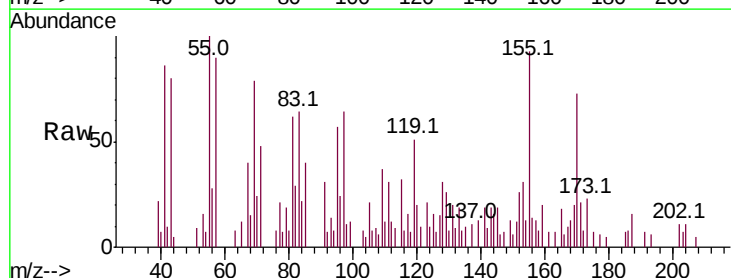
Tgt Ion:204 Resp: 523

Ion Ratio Lower Upper

204 100

206 0.0 25.9 38.9#

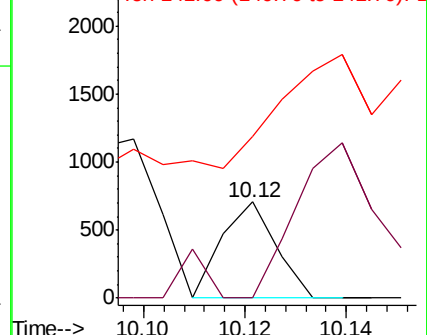
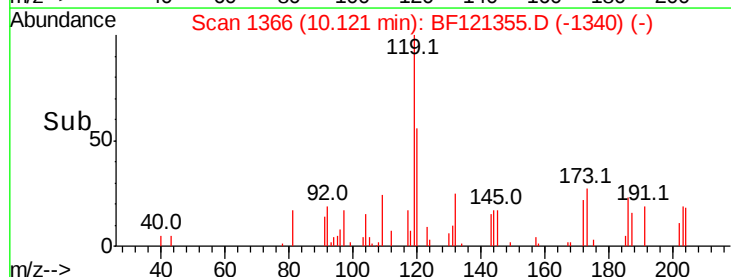
141 167.5 45.5 68.3#

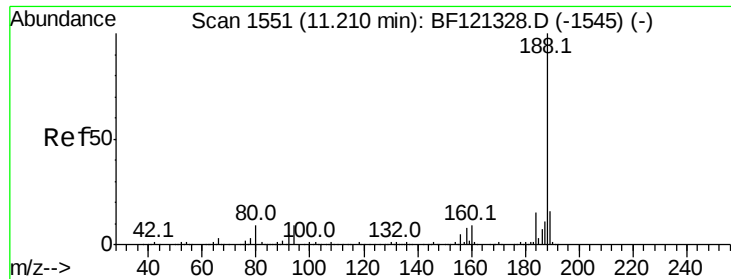


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.22 min Scan# 1552

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

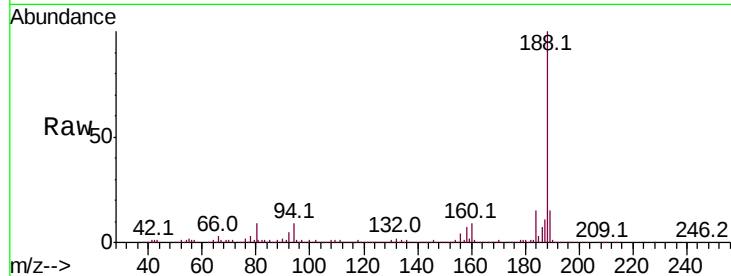
Tot Ion:188 Resp: 397717

Ion Ratio Lower Upper

188 100

94 9.0 7.2 10.8

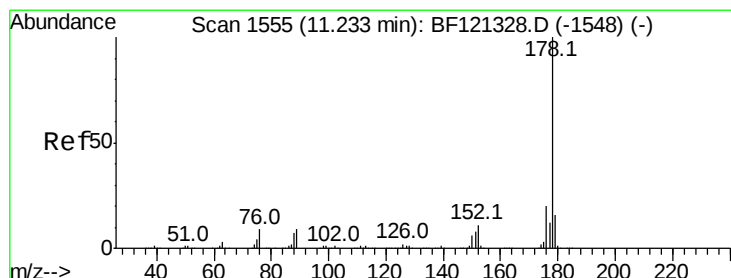
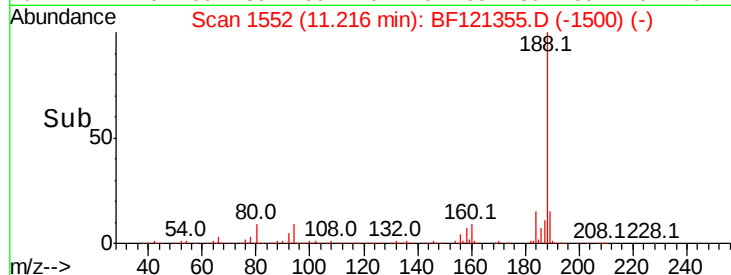
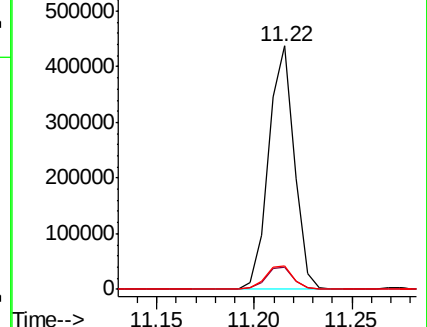
80 9.4 7.4 11.0



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: 56.520 ng

RT: 11.24 min Scan# 1556

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

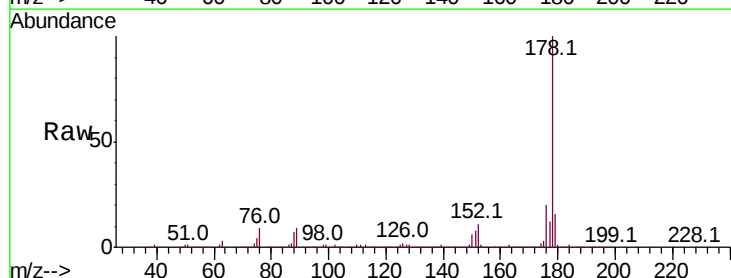
Tgt Ion:178 Resp: 1163409

Ion Ratio Lower Upper

178 100

176 20.3 16.0 24.0

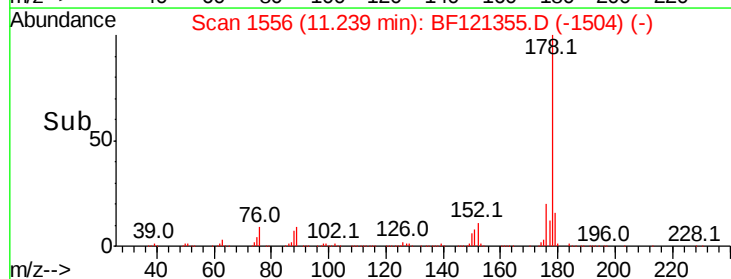
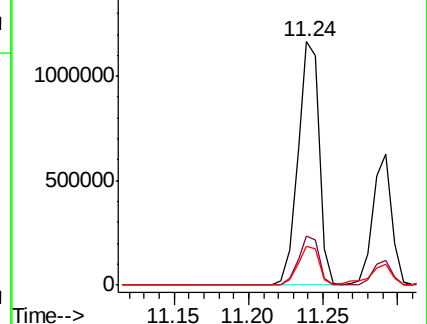
179 16.2 12.8 19.2

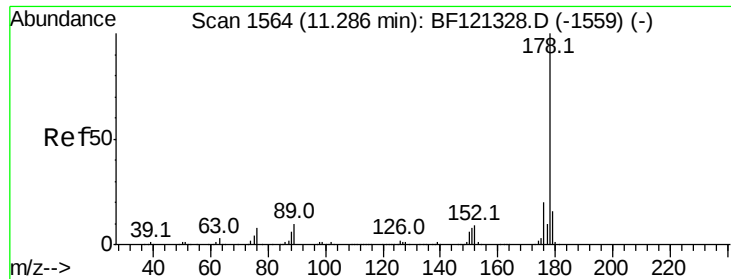


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 27.146 ng

RT: 11.29 min Scan# 1565

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

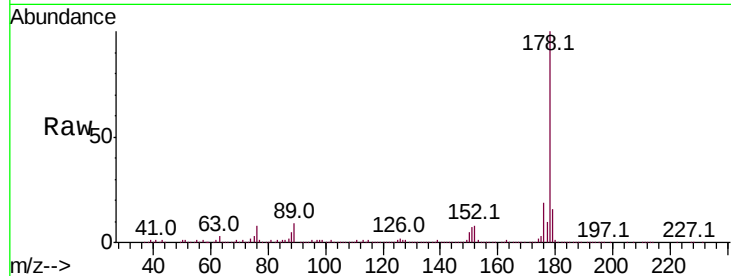
Tot Ion:178 Resp: 538090

Ion Ratio Lower Upper

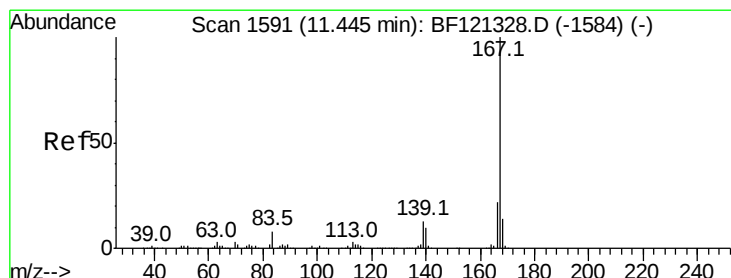
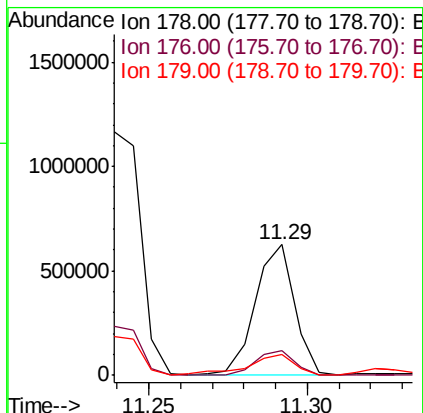
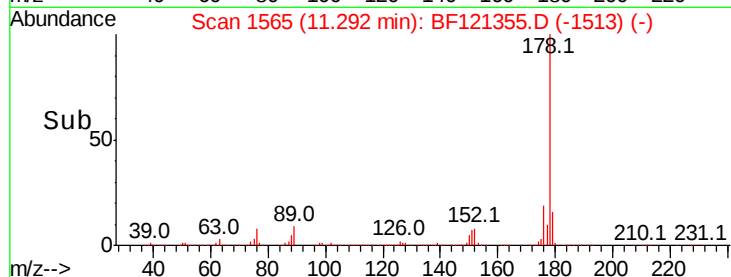
178 100

176 19.1 15.6 23.4

179 15.7 12.8 19.2



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



#73

Carbazole

Concen: 6.663 ng

RT: 11.44 min Scan# 1591

Delta R.T. -0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

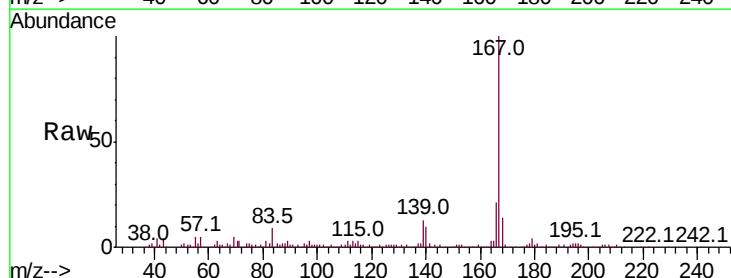
Tgt Ion:167 Resp: 126037

Ion Ratio Lower Upper

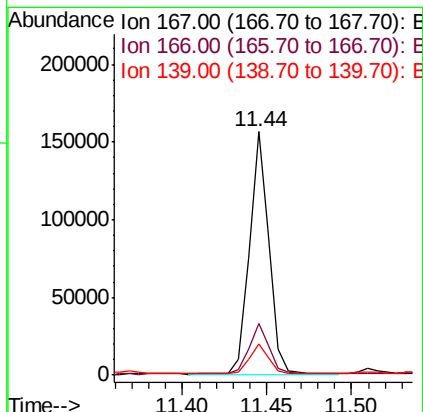
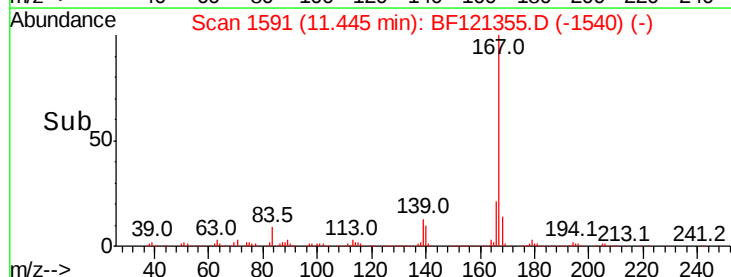
167 100

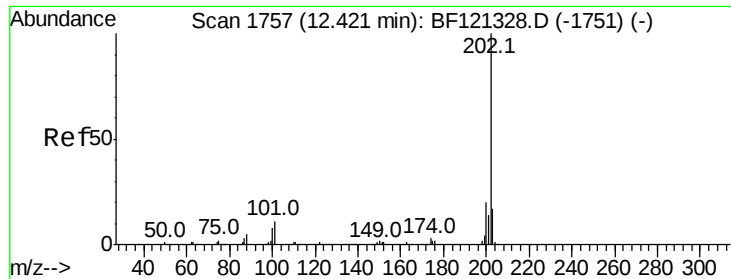
166 21.3 17.7 26.5

139 13.0 10.2 15.2



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 57.297 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

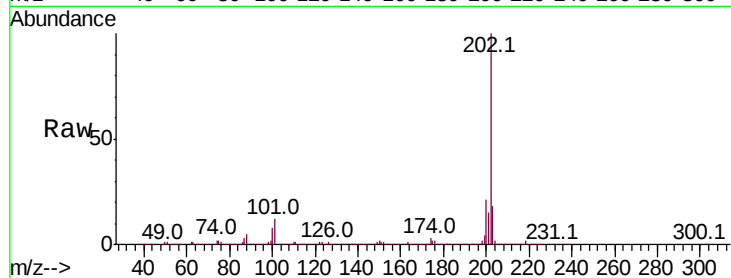
Tot Ion:202 Resp: 1280116

Ion Ratio Lower Upper

202 100

101 11.6 0.0 30.6

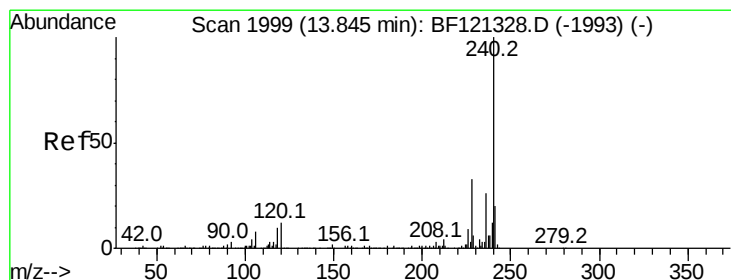
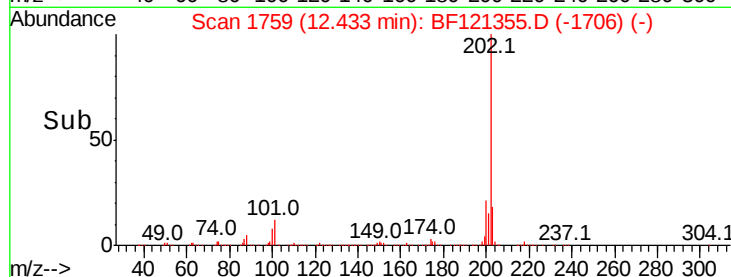
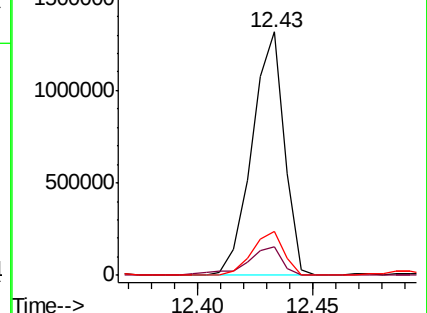
203 18.2 0.0 37.5



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: 13.86 min Scan# 2001

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

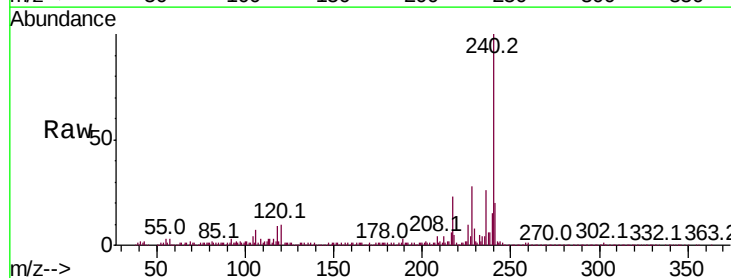
Tgt Ion:240 Resp: 328039

Ion Ratio Lower Upper

240 100

120 10.3 9.6 14.4

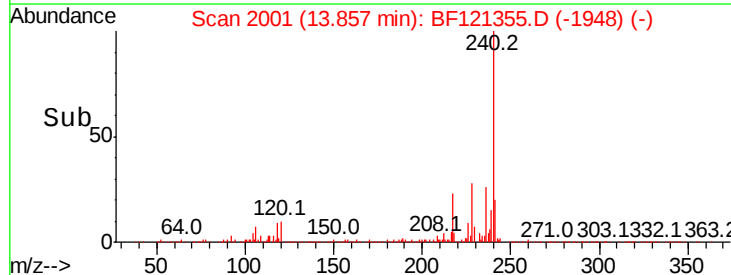
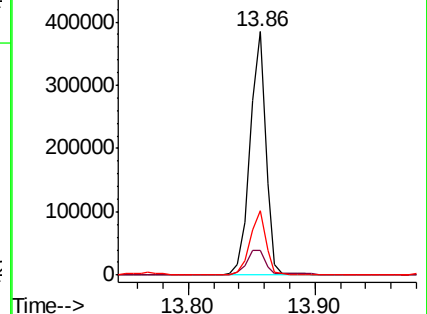
236 26.2 20.6 31.0

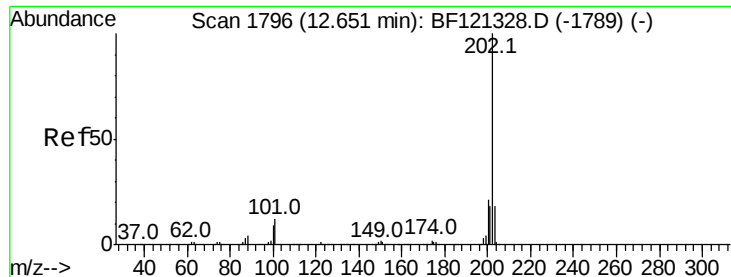


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 47.660 ng

RT: 12.66 min Scan# 1798

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

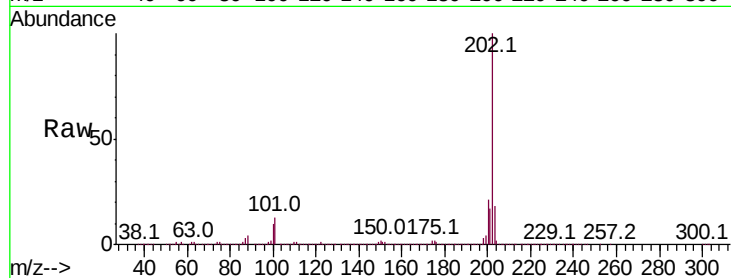
BNA_F

ClientSampleId :

HD-01-081820

Tot Ion:202 Resp: 1174397

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	24.8
203	18.3	14.2	21.2

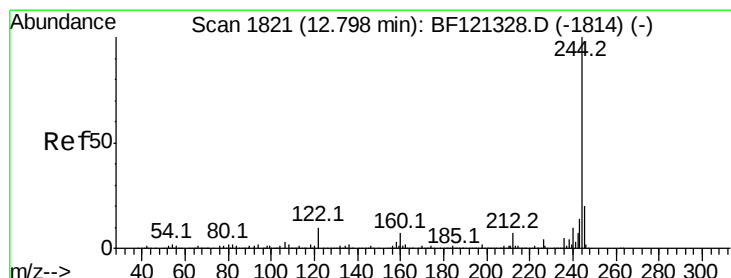
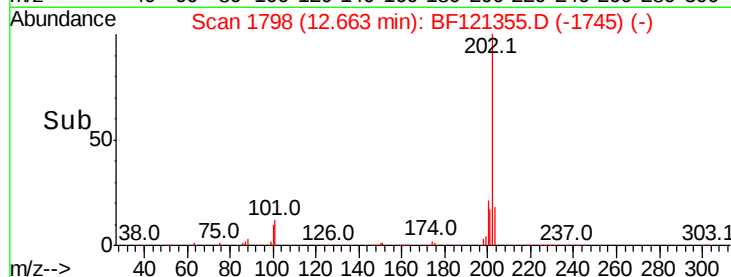
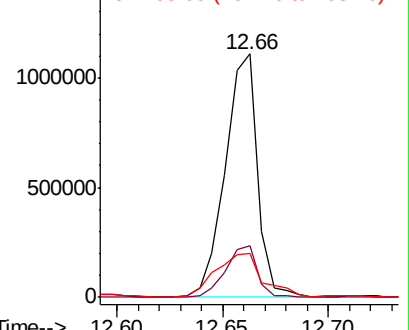


Abundance

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: 10.839 ng

RT: 12.80 min Scan# 1821

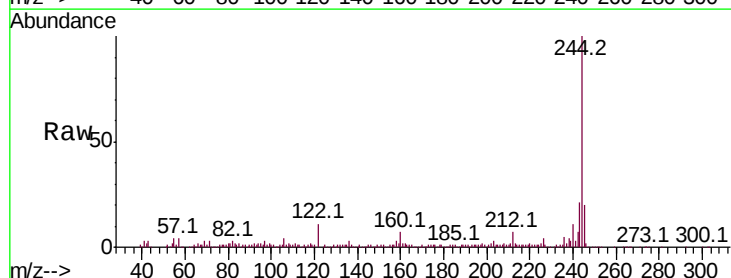
Delta R.T. 0.00 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Tgt Ion:244 Resp: 181948

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.9	7.8	11.8

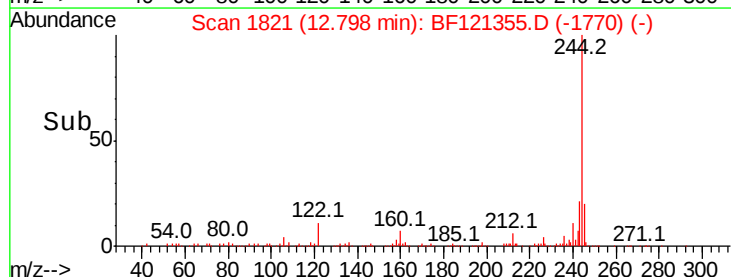
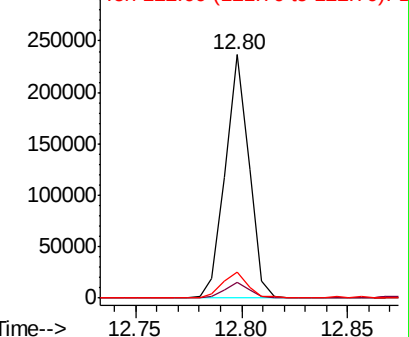


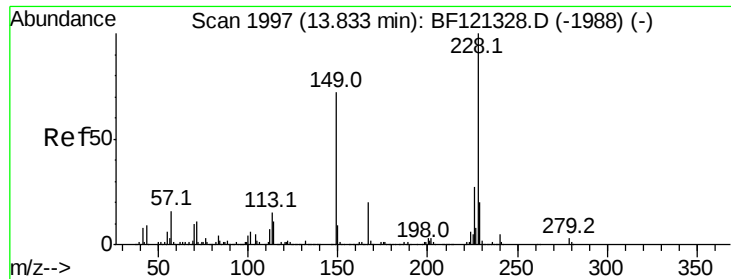
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 35.622 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

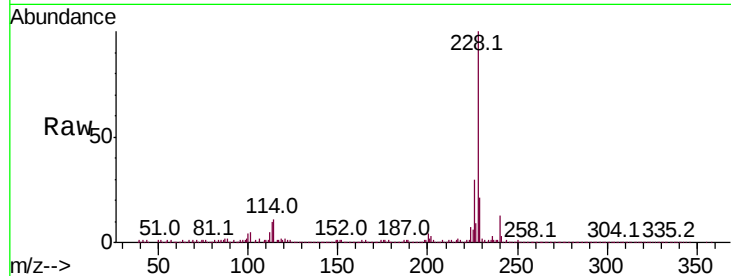
Tot Ion:228 Resp: 725790

Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.6

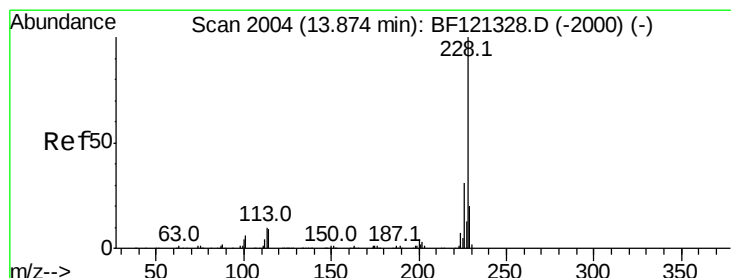
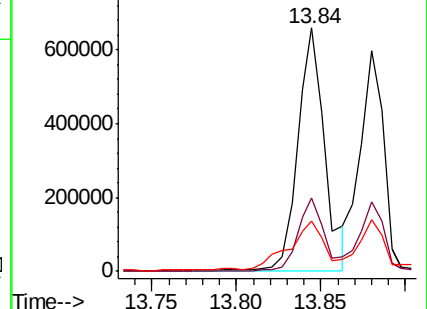
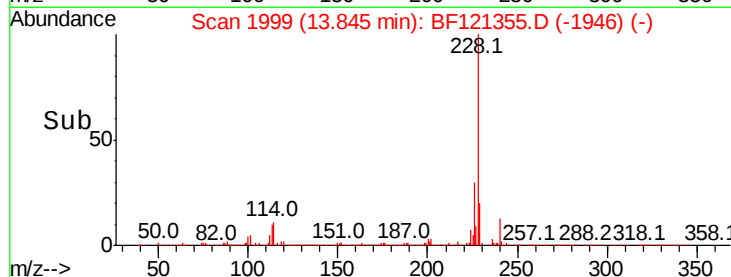
229 20.7 15.8 23.8



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: 27.577 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

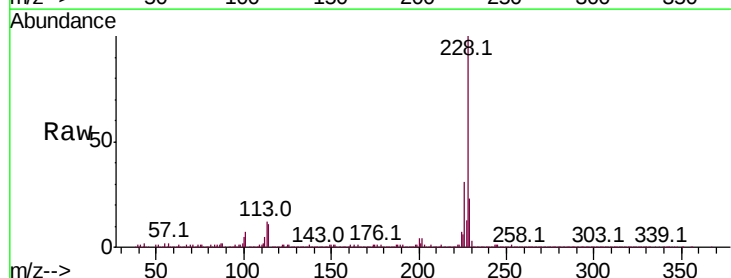
Tgt Ion:228 Resp: 574664

Ion Ratio Lower Upper

228 100

226 31.3 24.6 36.8

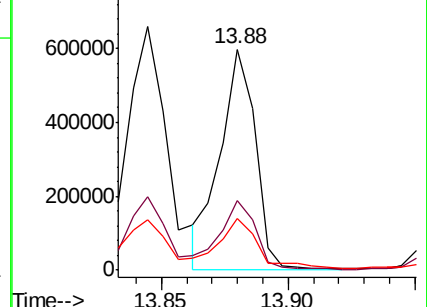
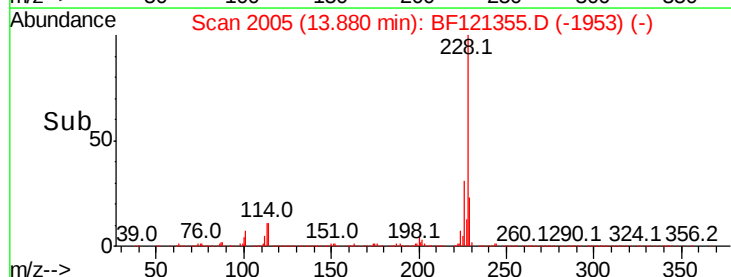
229 23.5 15.9 23.9

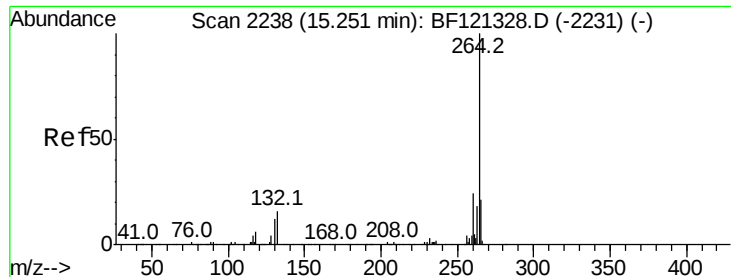


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

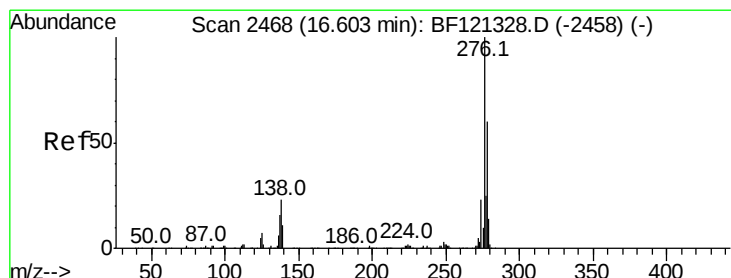
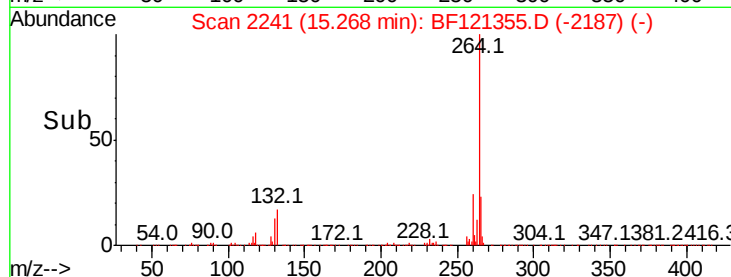
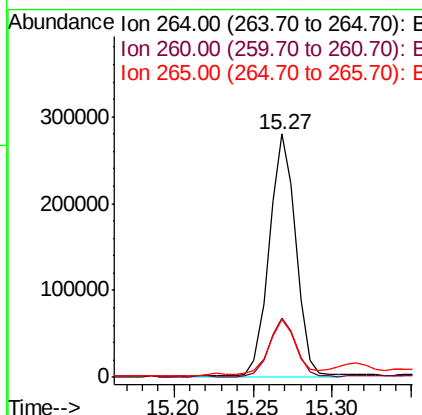
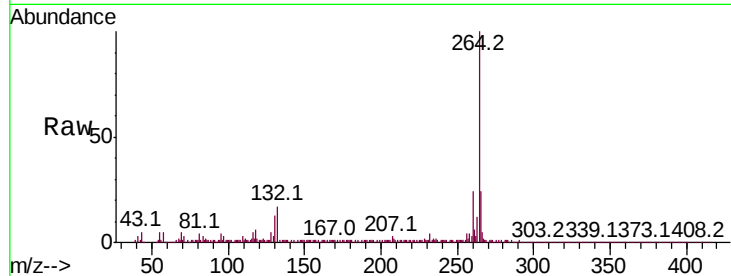




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

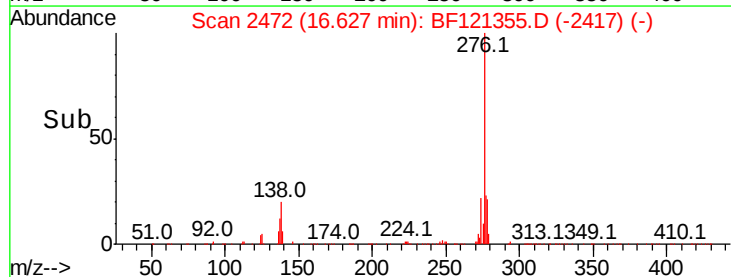
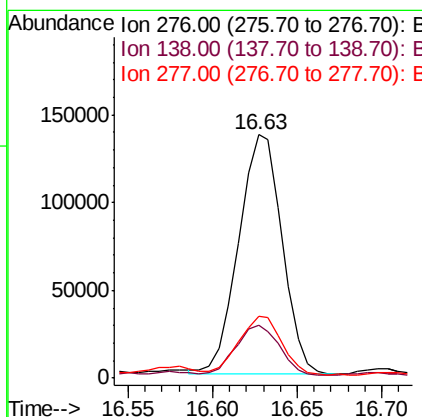
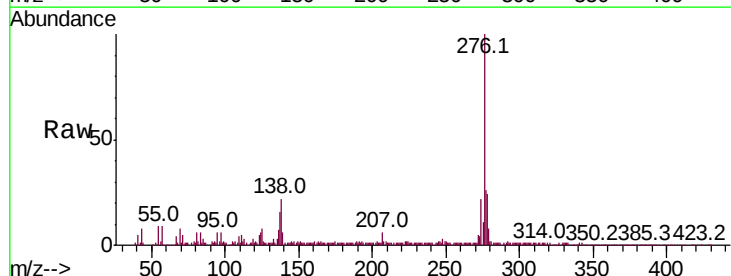
Instrument :
BNA_F
ClientSampleId :
HD-01-081820

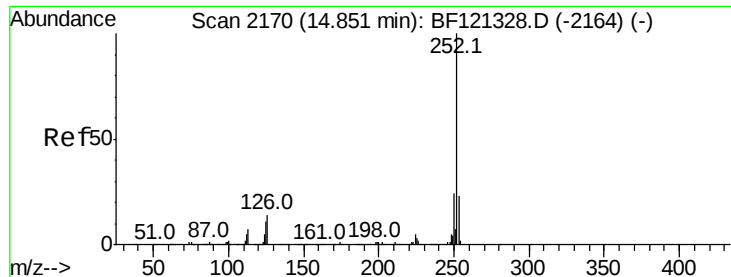
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	23.6	17.1	25.7



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.219 ng
RT: 16.63 min Scan# 2472
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.9	19.4	29.0
277	24.8	19.9	29.9





#88

Benzo(b)fluoranthene

Concen: 42.629 ng

RT: 14.87 min Scan# 2174

Delta R.T. 0.02 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

Instrument :

BNA_F

ClientSampleId :

HD-01-081820

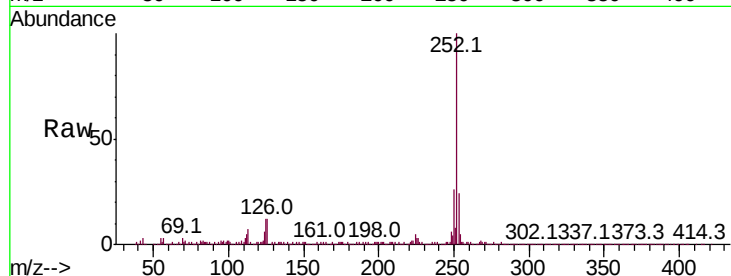
Tot Ion:252 Resp: 899108

Ion Ratio Lower Upper

252 100

253 24.0 18.0 27.0

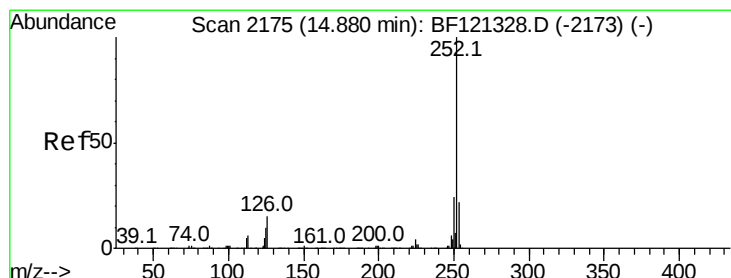
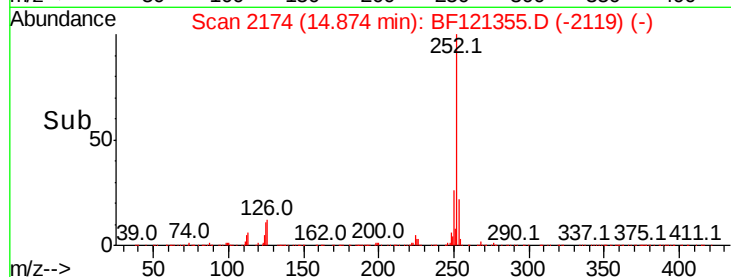
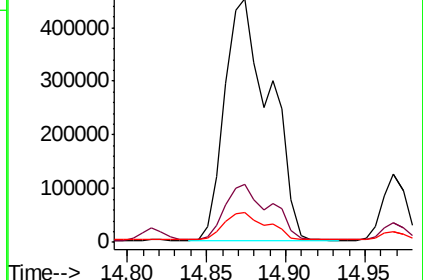
125 12.1 8.6 12.8



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



#89

Benzo(k)fluoranthene

Concen: 48.427 ng

RT: 14.87 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BF121355.D

Acq: 20 Aug 2020 19:18

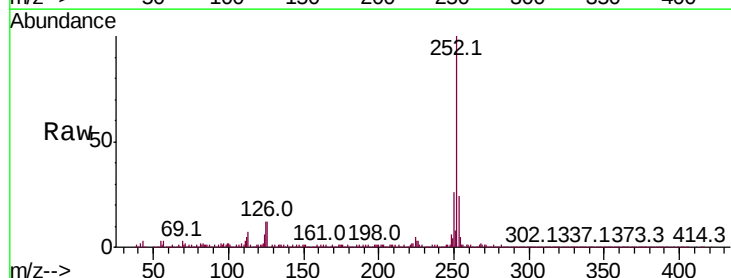
Tgt Ion:252 Resp: 899108

Ion Ratio Lower Upper

252 100

253 24.0 17.9 26.9

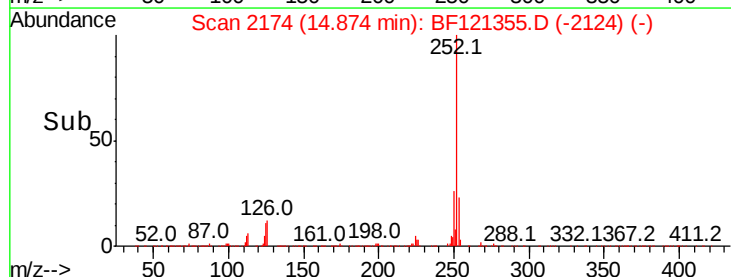
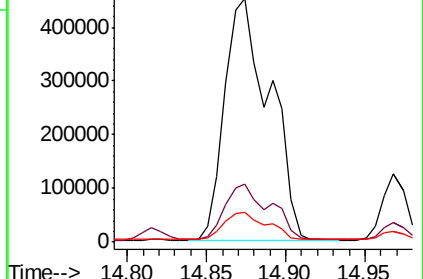
125 12.1 8.6 12.8

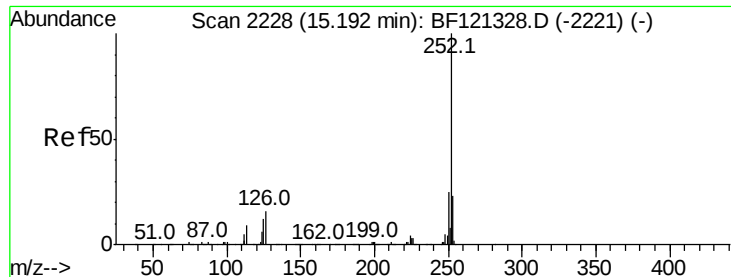


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

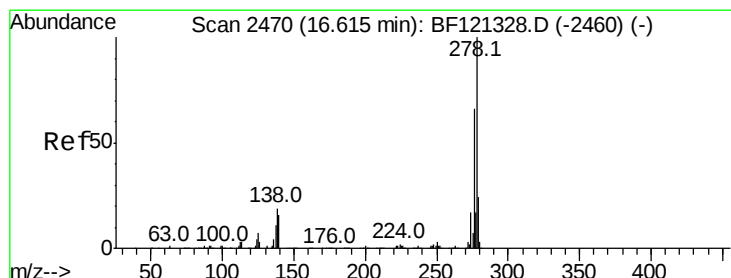
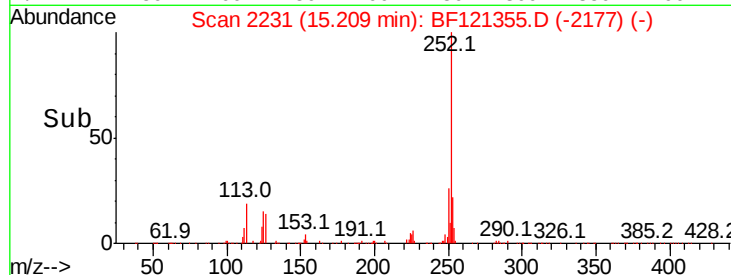
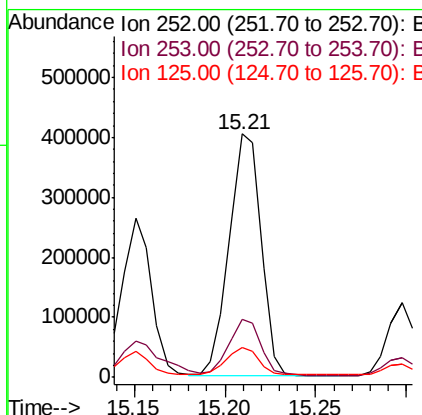
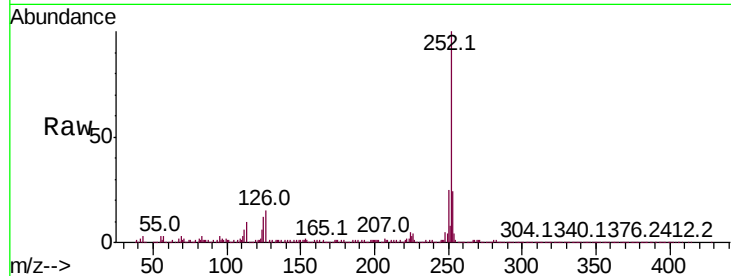




#90
Benzo(a)pyrene
Concen: 27.271 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

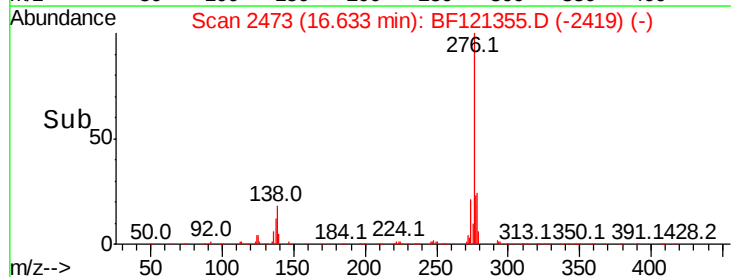
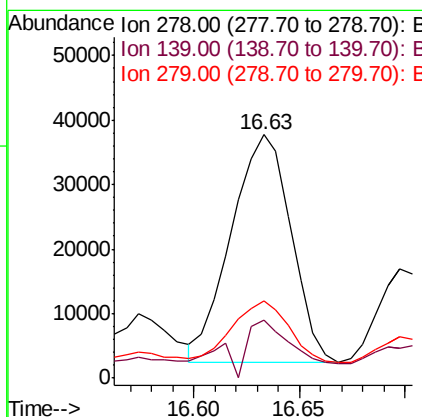
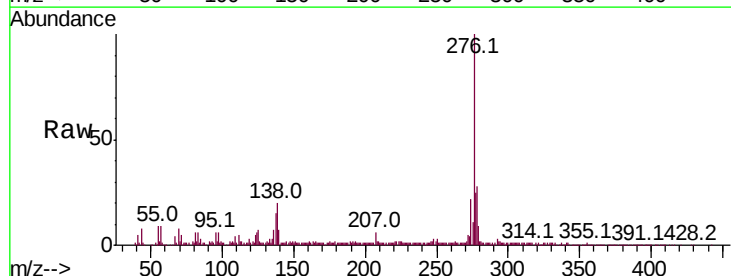
Instrument :
BNA_F
ClientSampleId :
HD-01-081820

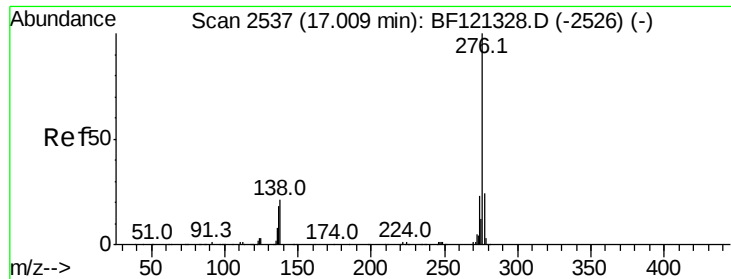
Tot Ion:252 Resp: 496992
Ion Ratio Lower Upper
252 100
253 23.6 18.0 27.0
125 12.4 9.4 14.0



#91
Dibenzo(a,h)anthracene
Concen: 4.247 ng
RT: 16.63 min Scan# 2473
Delta R.T. 0.02 min
Lab File: BF121355.D
Acq: 20 Aug 2020 19:18

Tgt Ion:278 Resp: 69393
Ion Ratio Lower Upper
278 100
139 23.6 13.1 19.7#
279 31.6 19.4 29.2#





#92
 Benzo(a,h,i)perylene
 Concen: 13.825 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.03 min
 Lab File: BF121355.D
 Acq: 20 Aug 2020 19:18

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-081820

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.5	19.3	28.9	
138	22.3	16.8	25.2	

