

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082319\
 Data File : BF116501.D
 Acq On : 24 Aug 2019 2:17
 Operator : HP/JU
 Sample : K4087-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-082119

Quant Time: Aug 24 03:38:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 23 13:38:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	115159	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	431445	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	203128	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	320254	20.00	ng	0.00
76) Chrysene-d12	14.03	240	209954	20.00	ng	0.00
87) Perylene-d12	15.50	264	223195	20.00	ng	-0.01

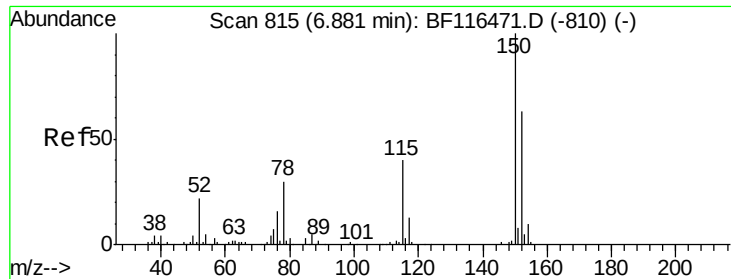
System Monitoring Compounds

5) 2-Fluorophenol	5.51	112	685953	87.03	ng	0.01
7) Phenol-d6	6.51	99	908094	93.97	ng	0.00
23) Nitrobenzene-d5	7.44	82	526626	66.78	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	137466	78.81	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	972242	77.08	ng	0.00
79) Terphenyl-d14	12.98	244	817053	72.69	ng	0.00

Target Compounds

						Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	71865	10.898	ng	# 78
25) Isophorone	7.44	82	526732	33.894	ng	# 67
50) Dimethylphthalate	9.63	163	199791	14.097	ng	99
57) 2,4-Dinitrotoluene	9.92	165	26639	7.217	ng	# 20
65) 4,6-Dinitro-2-methylphenol	10.70	198	134	7.092	ng	# 1
67) 4-Bromophenyl-phenylether	10.70	248	8989	2.677	ng	# 1
71) Phenanthrene	11.42	178	82410	4.724	ng	98
75) Fluoranthene	12.61	202	181104	10.041	ng	99
78) Pyrene	12.84	202	165939	9.883	ng	99
81) Benzo(a)anthracene	14.02	228	68881	5.066	ng	96
83) Chrysene	14.06	228	62800	4.557	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	40647	3.443	ng	94
88) Benzo(b)fluoranthene	15.07	252	114932	8.336	ng	# 95
89) Benzo(k)fluoranthene	15.07	252	114932	9.201	ng	# 94
90) Benzo(a)pyrene	15.43	252	63183	5.185	ng	96
92) Benzo(g,h,i)perylene	17.40	276	38886	4.073	ng	96

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

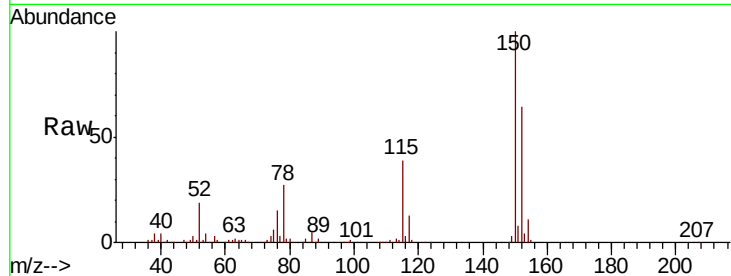


#1

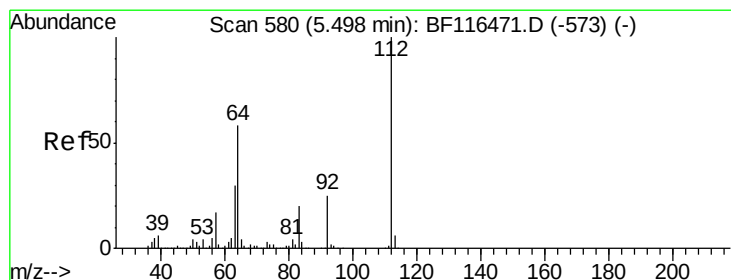
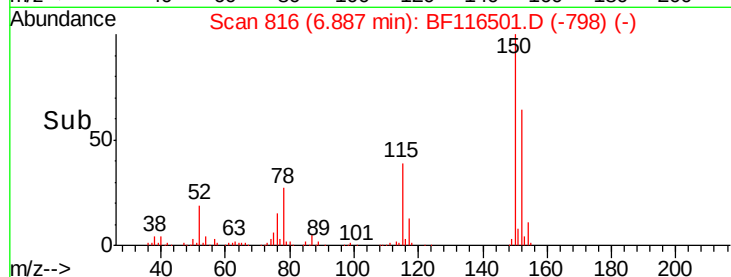
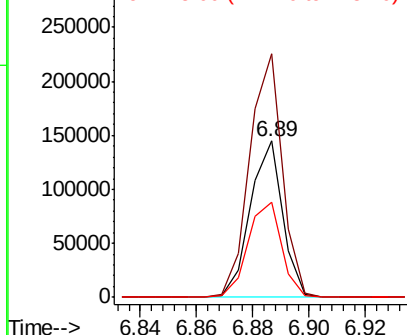
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. 0.01 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Instrument :
BNA_F
ClientSampleId :
HD-02-082119

Tgt Ion:152 Resp: 115159
Ion Ratio Lower Upper
152 100
150 156.0 126.7 190.1
115 60.9 50.9 76.3



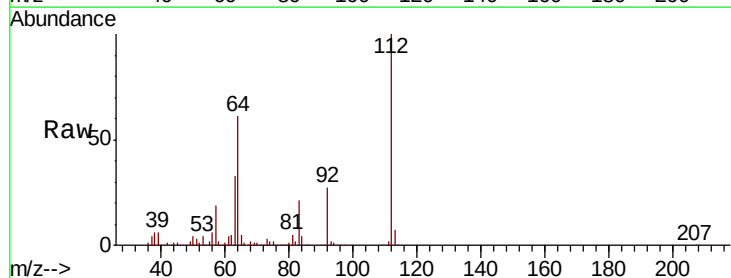
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



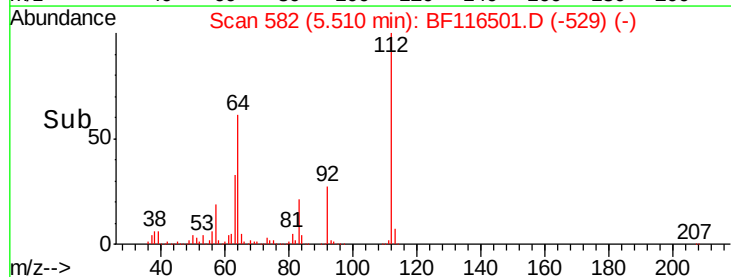
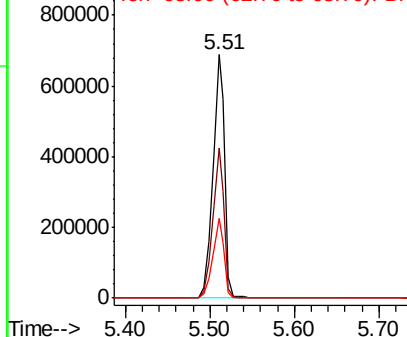
#5

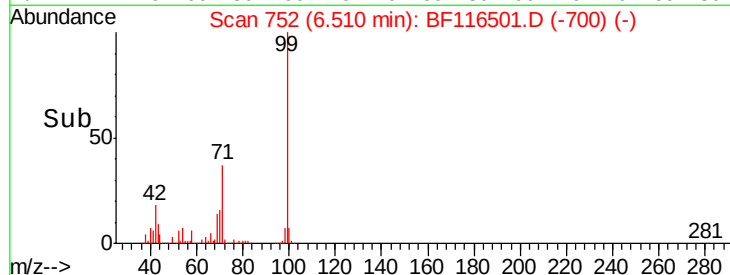
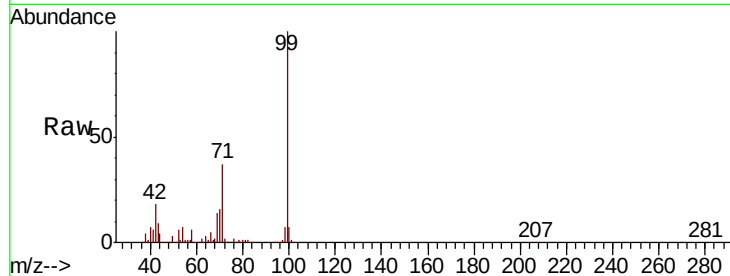
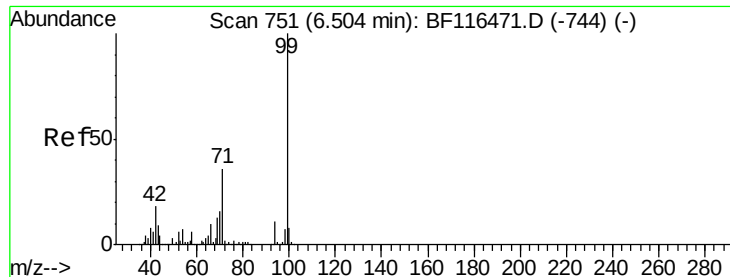
2-Fluorophenol
Concen: 87.034 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Tgt Ion:112 Resp: 685953
Ion Ratio Lower Upper
112 100
64 61.5 46.3 69.5
63 32.6 24.2 36.4



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





#7

Phenol-d6

Concen: 93.969 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Instrument :

BNA_F

ClientSampleId :

HD-02-082119

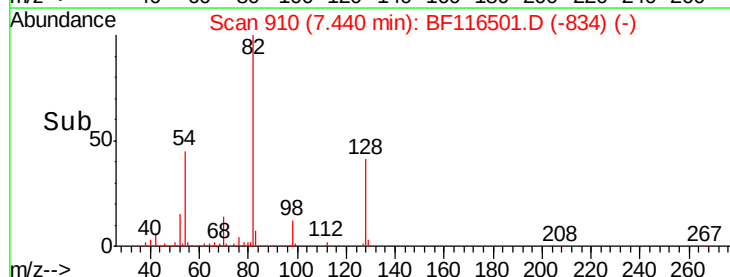
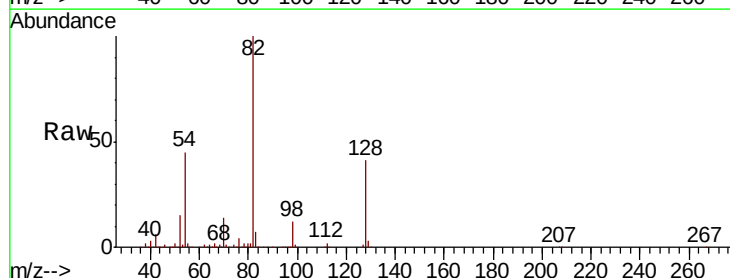
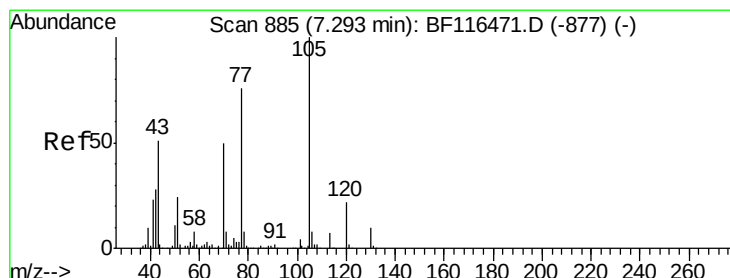
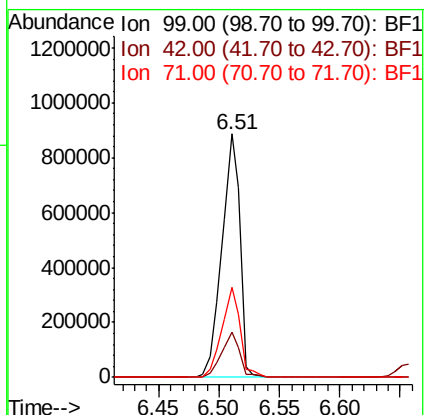
Tgt Ion: 99 Resp: 908094

Ion Ratio Lower Upper

99 100

42 18.5 14.6 21.8

71 37.2 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 10.898 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Tgt Ion: 70 Resp: 71865

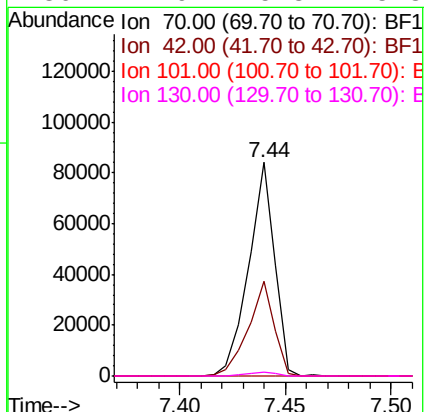
Ion Ratio Lower Upper

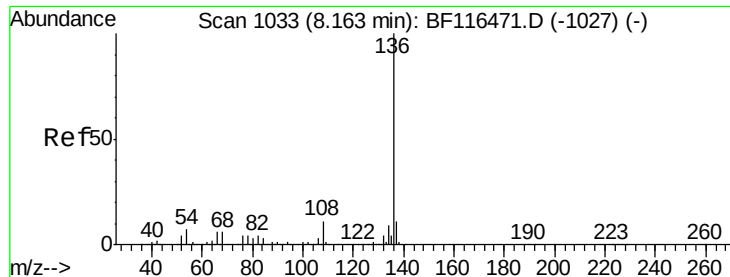
70 100

42 44.6 44.4 66.6

101 0.0 7.1 10.7#

130 1.9 15.8 23.8#

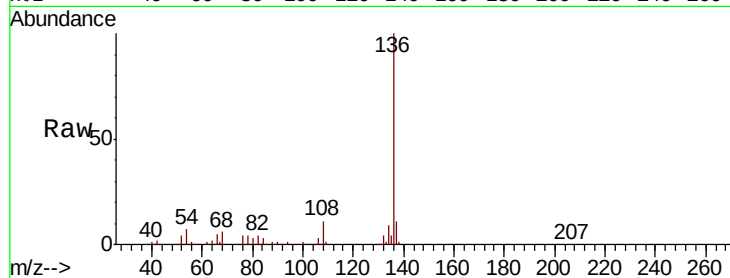




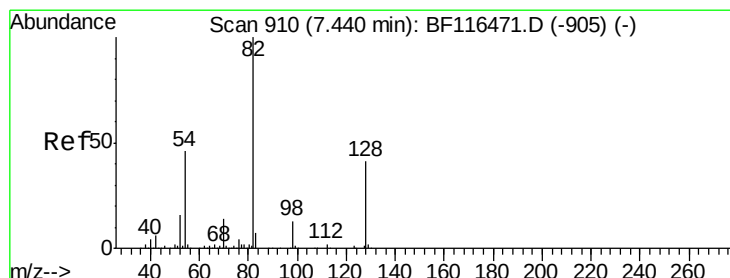
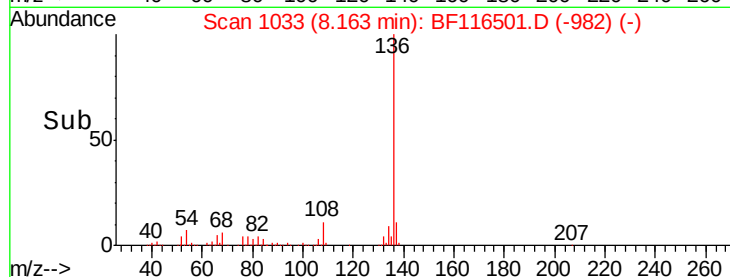
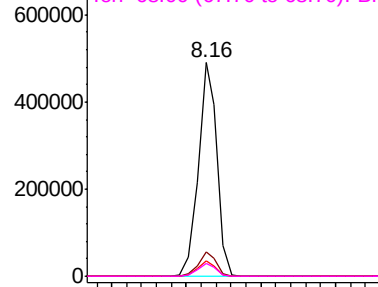
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.00 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Instrument :
BNA_F
ClientSampleId :
HD-02-082119

Tgt Ion:	136	Resp:	431445
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.2	5.8	8.6
68	6.0	5.1	7.7

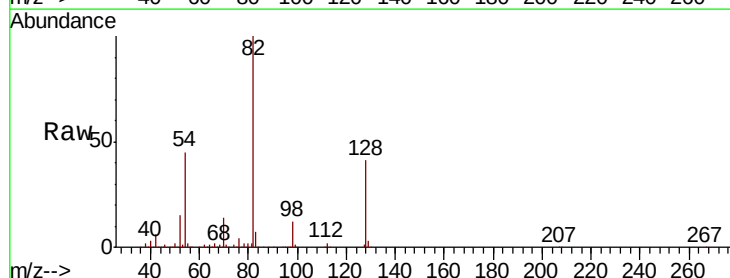


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

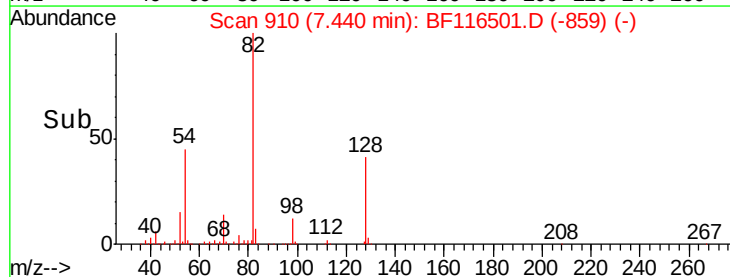
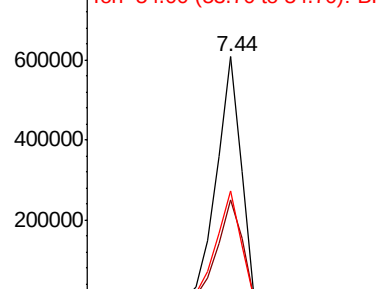


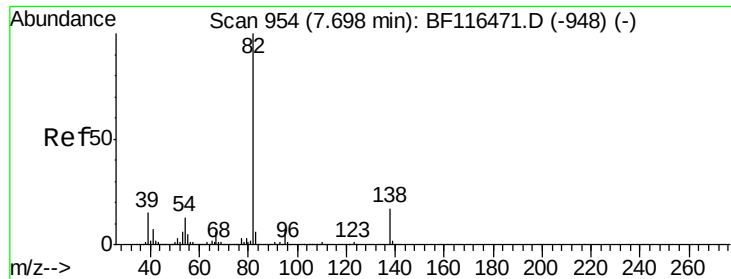
#23
Nitrobenzene-d5
Concen: 66.780 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.00 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Tgt Ion:	82	Resp:	526626
Ion	Ratio	Lower	Upper
82	100		
128	41.3	32.2	48.4
54	44.6	36.5	54.7



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: 33.894 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Instrument :

BNA_F

ClientSampleId :

HD-02-082119

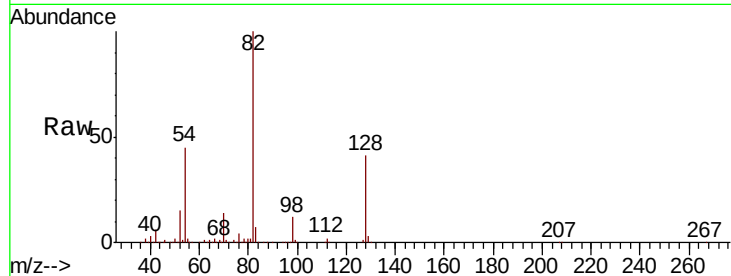
Tgt Ion: 82 Resp: 526732

Ion Ratio Lower Upper

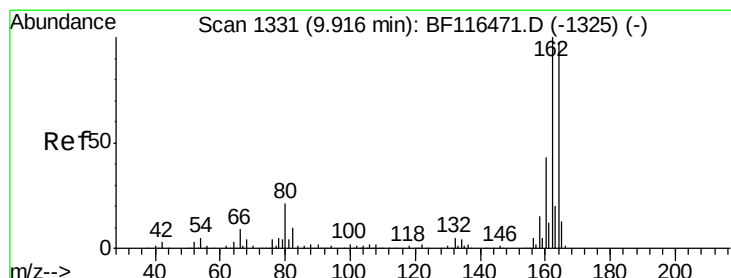
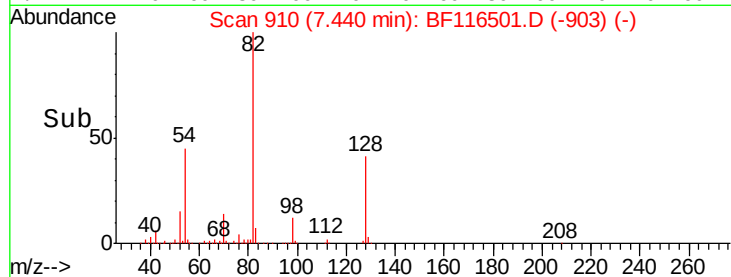
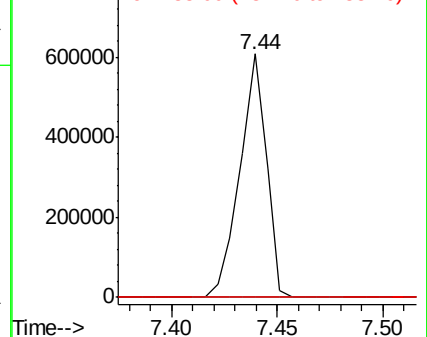
82 100

95 0.1 5.3 7.9#

138 0.0 13.3 19.9#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.00 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

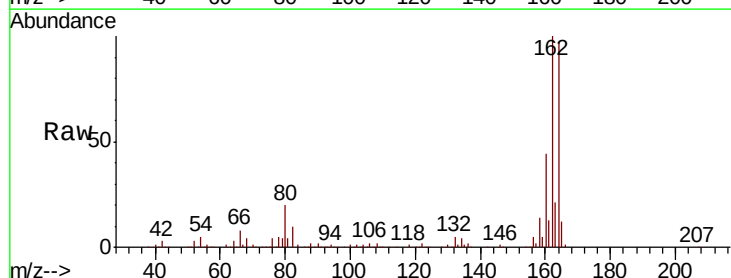
Tgt Ion: 164 Resp: 203128

Ion Ratio Lower Upper

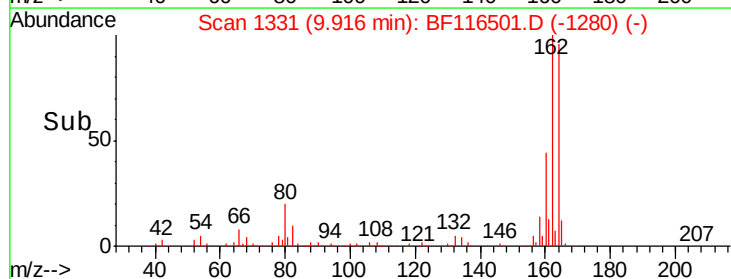
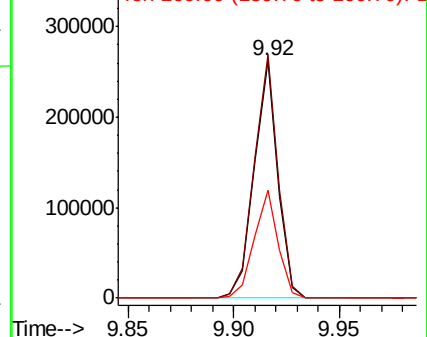
164 100

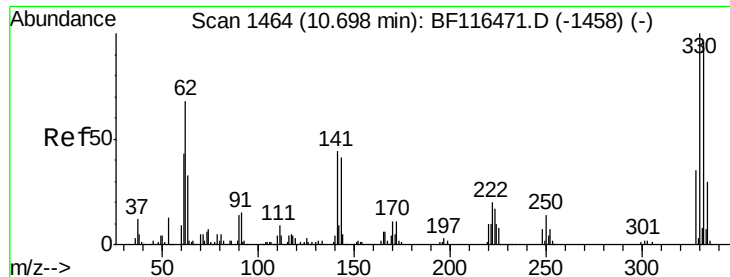
162 102.6 82.6 123.8

160 45.4 35.8 53.8



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: 78.813 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.00 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Instrument :

BNA_F

ClientSampleId :

HD-02-082119

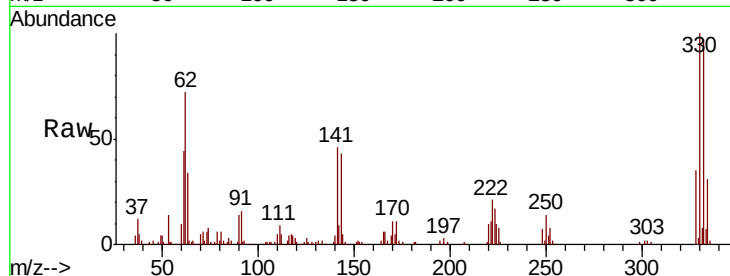
Tgt Ion:330 Resp: 137466

Ion Ratio Lower Upper

330 100

332 97.8 77.2 115.8

141 40.5 33.3 49.9

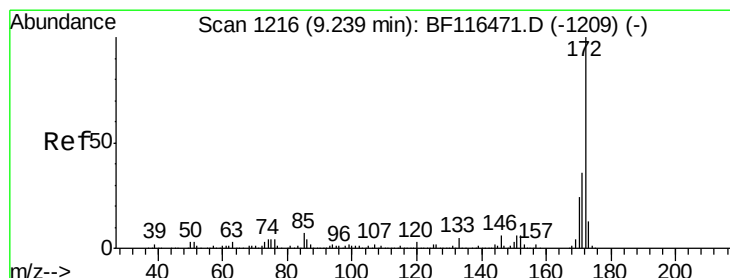
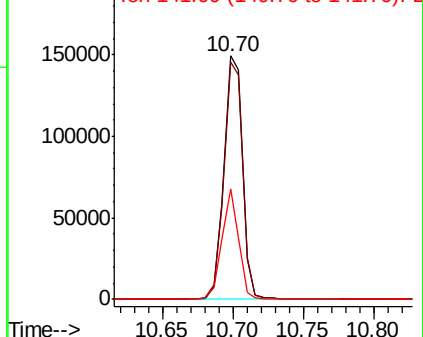
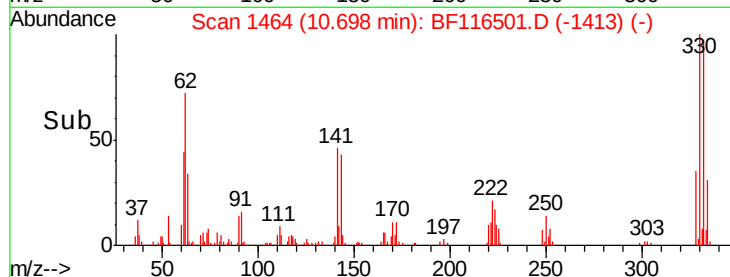


Abundance

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: 77.080 ng

RT: 9.24 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

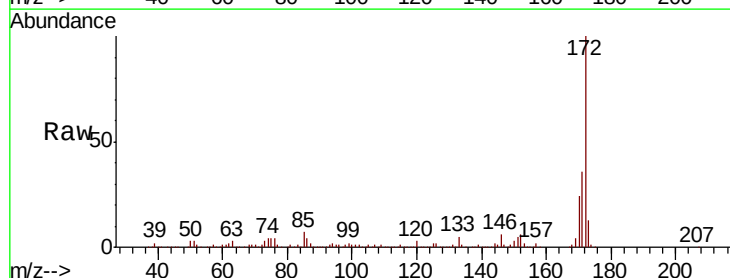
Tgt Ion:172 Resp: 972242

Ion Ratio Lower Upper

172 100

171 36.4 28.9 43.3

170 24.2 19.4 29.0

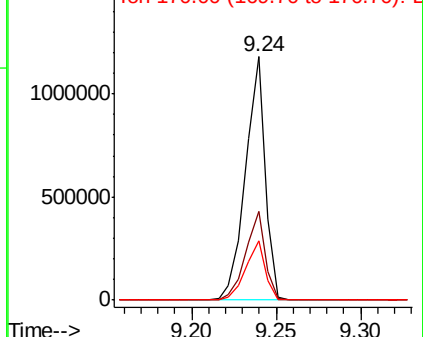
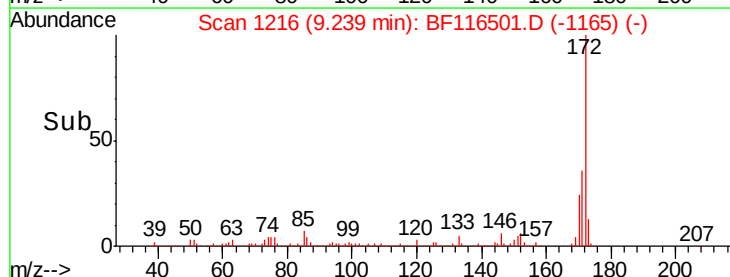


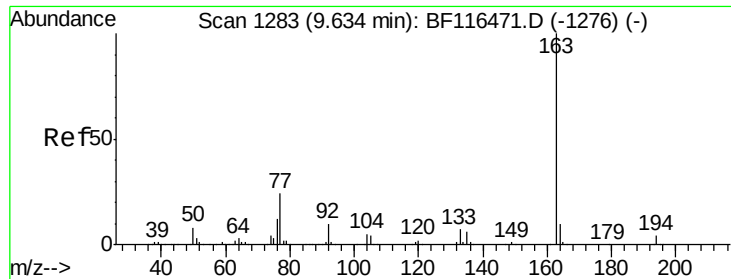
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

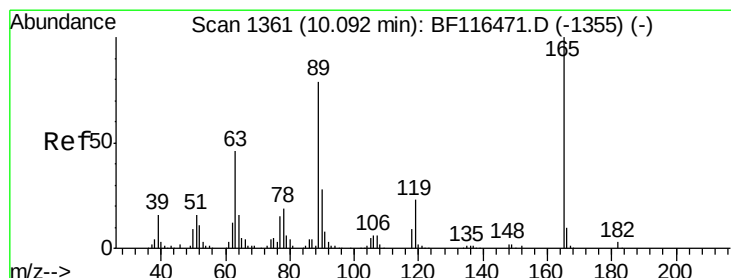
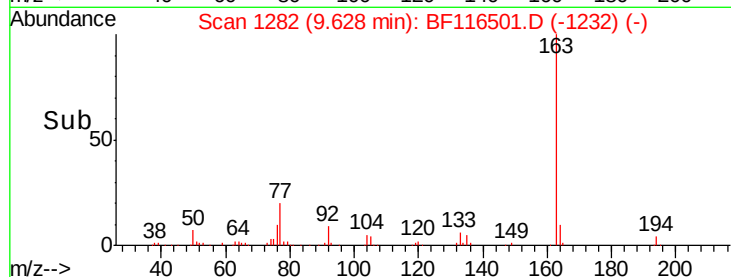
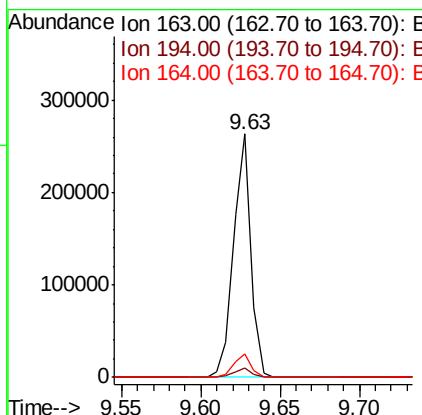
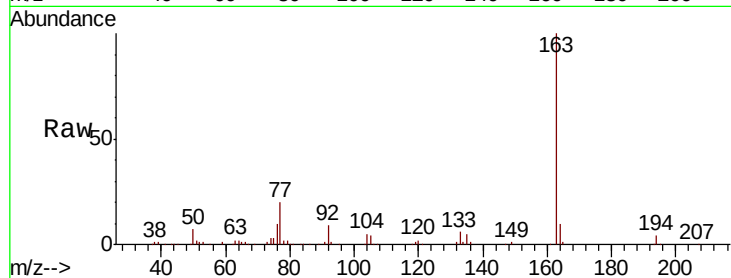




#50
Dimethylphthalate
Concen: 14.097 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

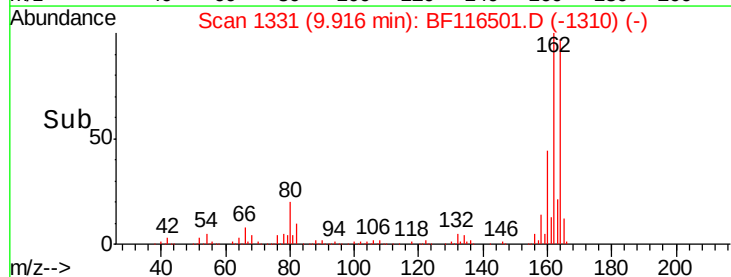
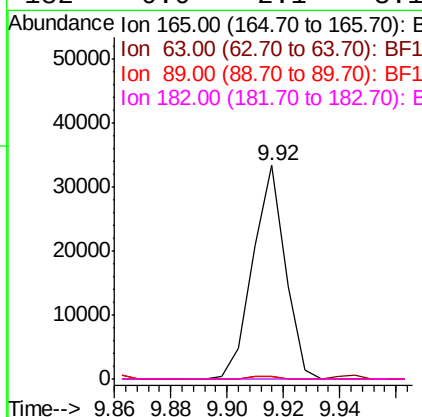
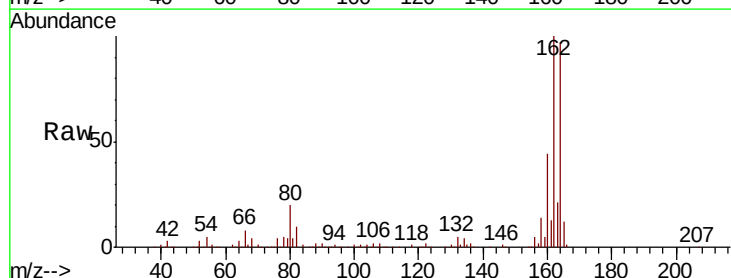
Instrument :
BNA_F
ClientSampleId :
HD-02-082119

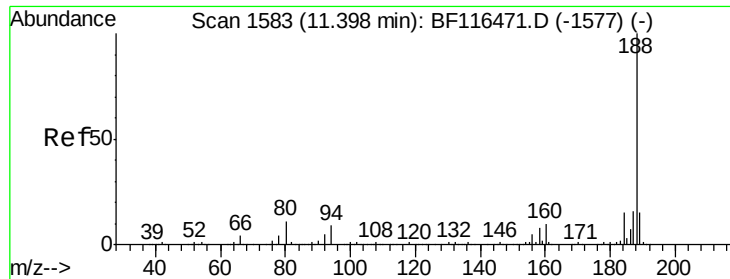
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.9	4.3
164	9.8	8.2	12.2



#57
2,4-Dinitrotoluene
Concen: 7.217 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.18 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	36.9	55.3#
89	1.2	63.4	95.0#
182	0.0	2.1	3.1#

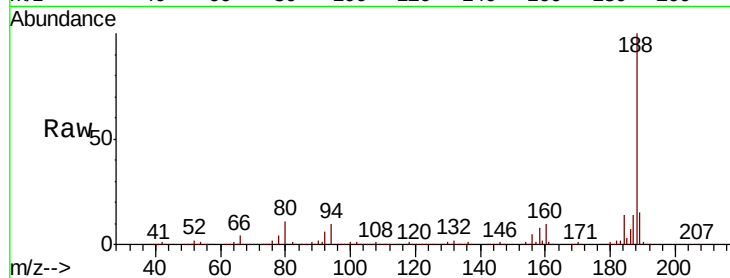




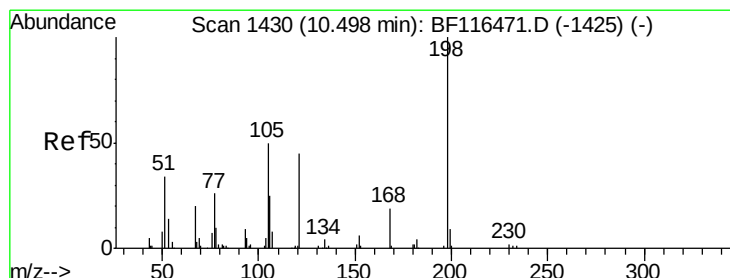
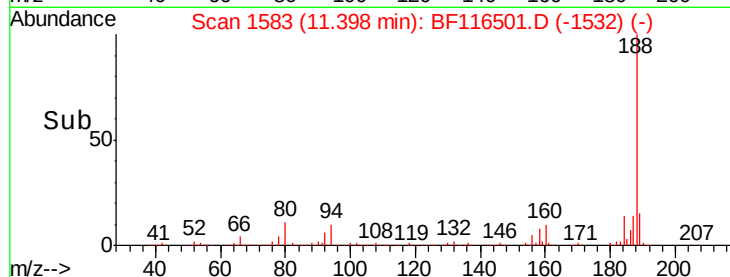
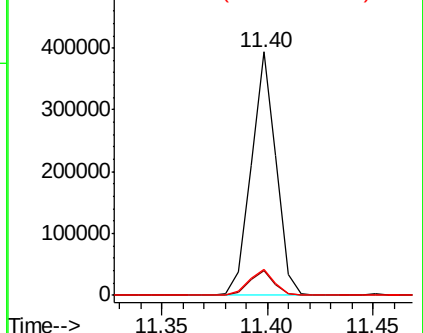
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-082119

Tgt Ion:188 Resp: 320254
 Ion Ratio Lower Upper
 188 100
 94 10.0 7.4 11.2
 80 10.9 8.6 12.8

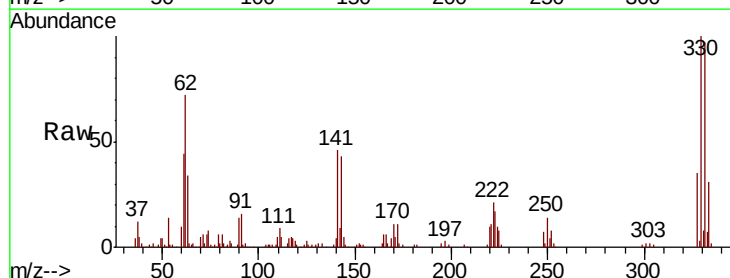


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

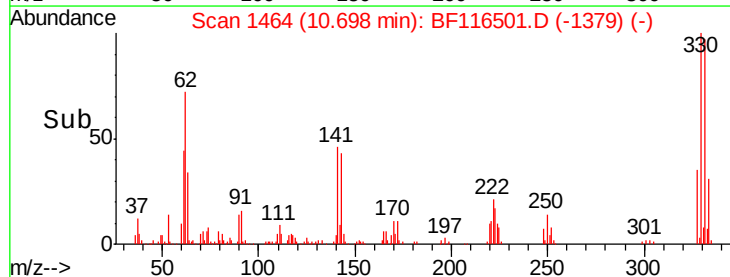
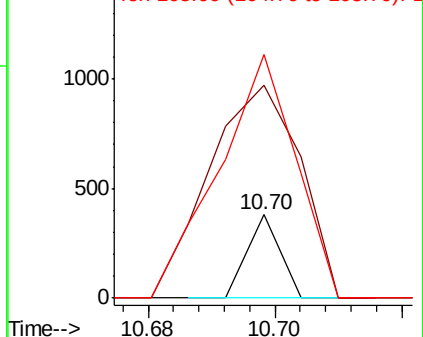


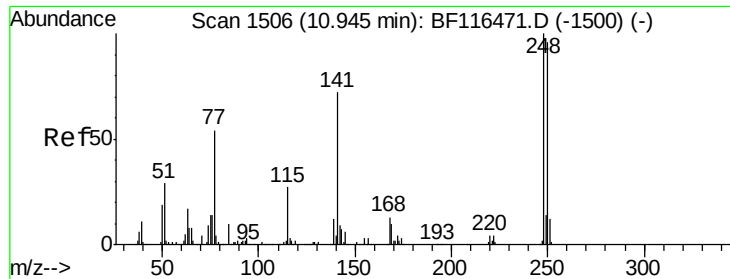
#65
 4,6-Dinitro-2-methylphenol
 Concen: 7.092 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.20 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

Tgt Ion:198 Resp: 134
 Ion Ratio Lower Upper
 198 100
 51 255.4 30.4 70.4#
 105 291.6 32.8 72.8#



Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

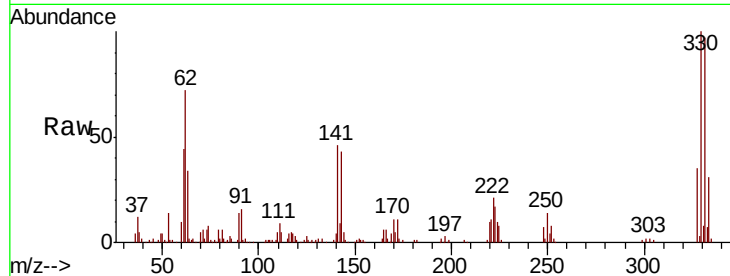




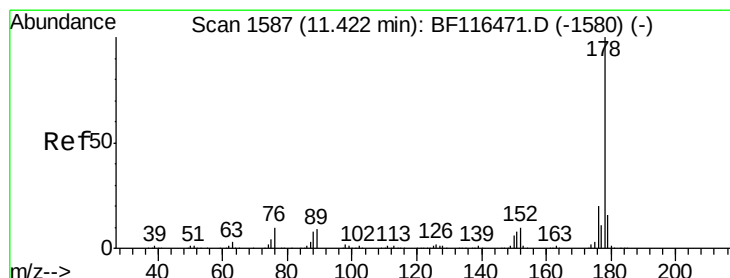
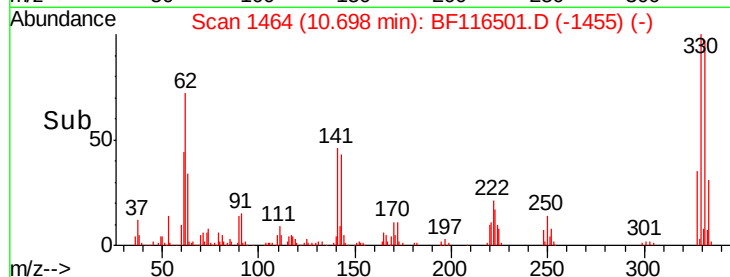
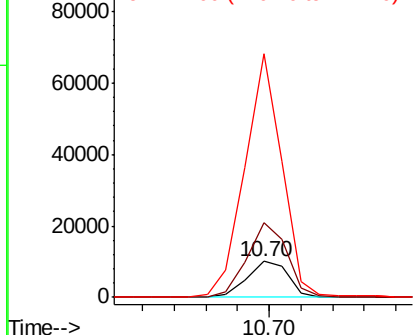
#67
 4-Bromophenyl-phenylether
 Concen: 2.677 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.25 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-082119

Tgt Ion: 248 Resp: 8989
 Ion Ratio Lower Upper
 248 100
 250 208.5 77.0 115.6#
 141 682.9 57.4 86.0#

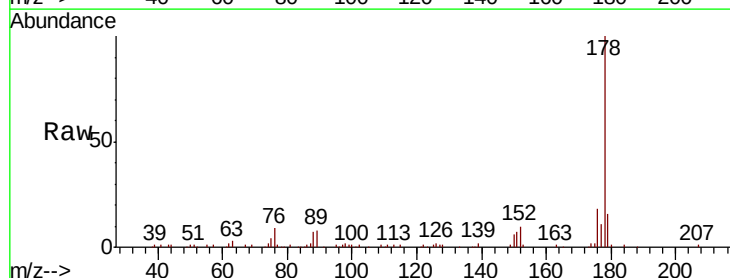


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

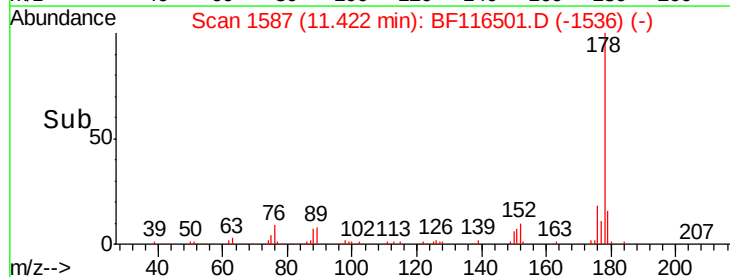
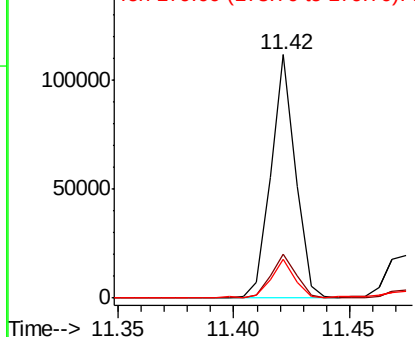


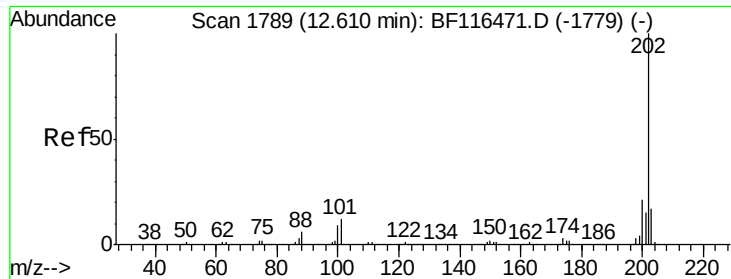
#71
 Phenanthrene
 Concen: 4.724 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

Tgt Ion: 178 Resp: 82410
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.8 23.6
 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





#75

Fluoranthene

Concen: 10.041 ng

RT: 12.61 min Scan# 1789

Delta R.T. -0.00 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

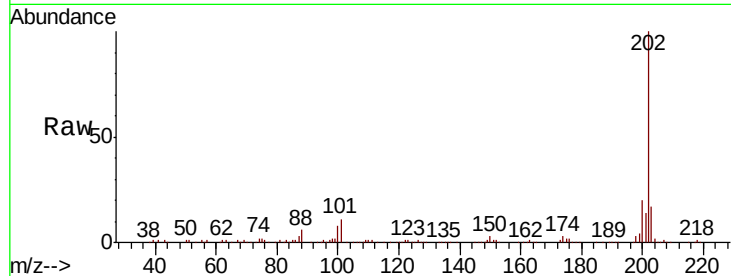
Instrument :

BNA_F

ClientSampleId :

HD-02-082119

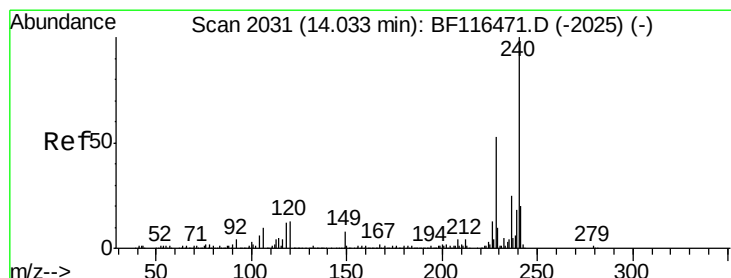
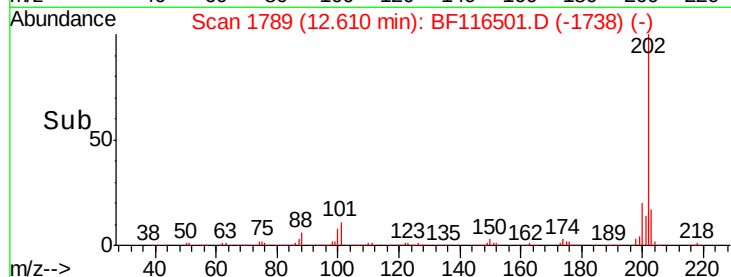
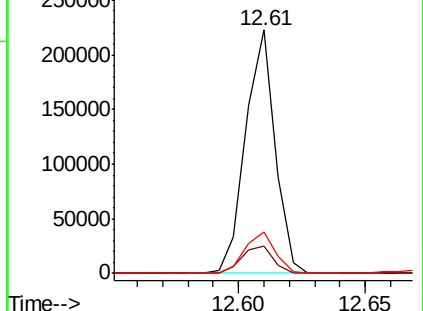
Tgt Ion:	202	Resp:	181104
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.5
203	17.2	0.0	37.5



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

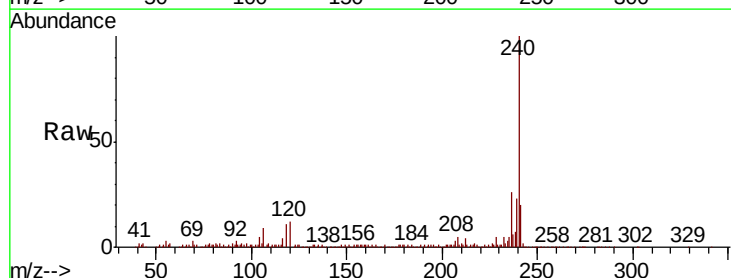
RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

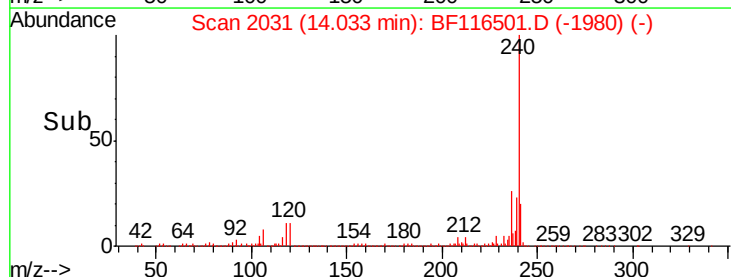
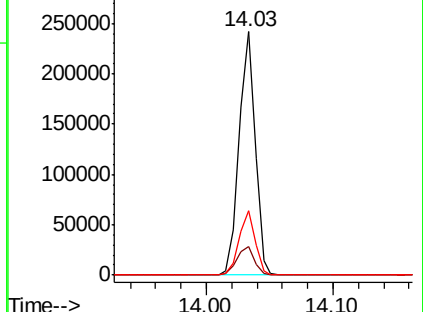
Tgt Ion:	240	Resp:	209954
Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.5	15.7
236	26.4	20.2	30.2

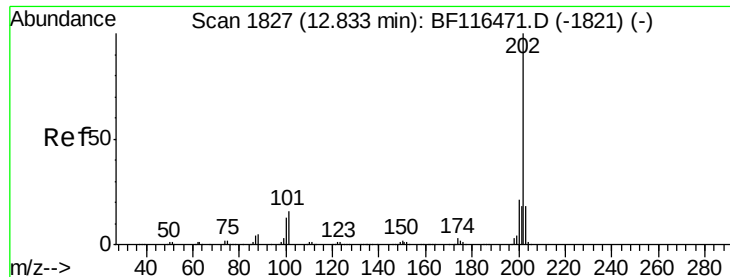


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

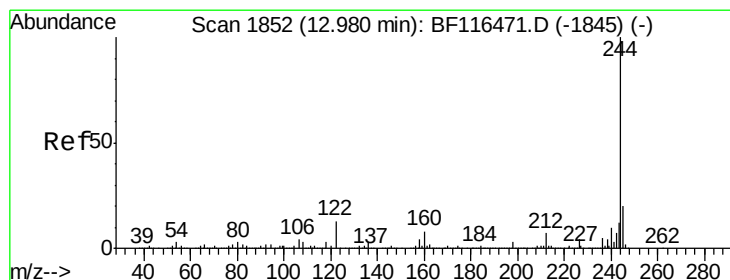
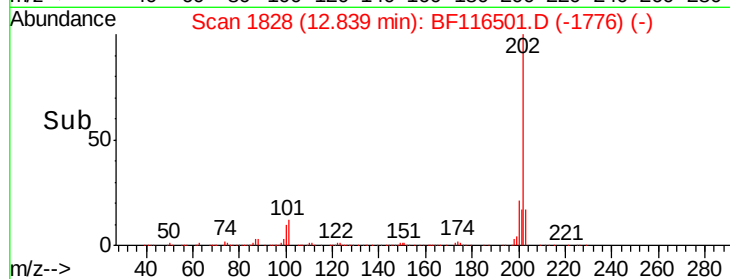
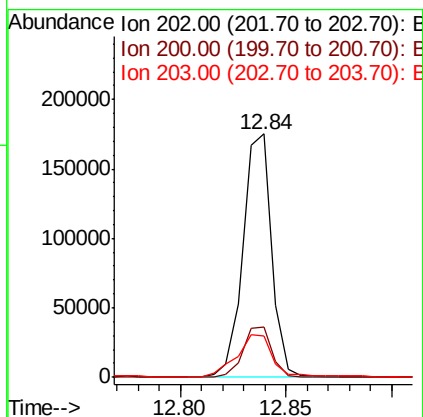
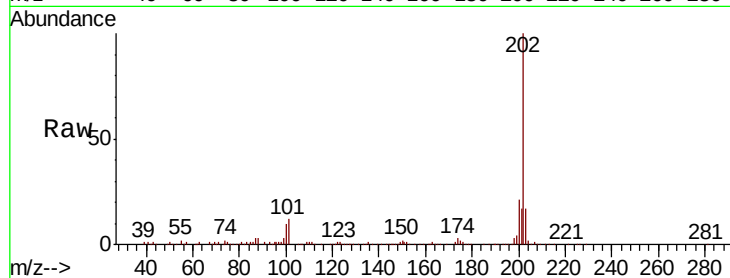




#78
 Pyrene
 Concen: 9.883 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. 0.01 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

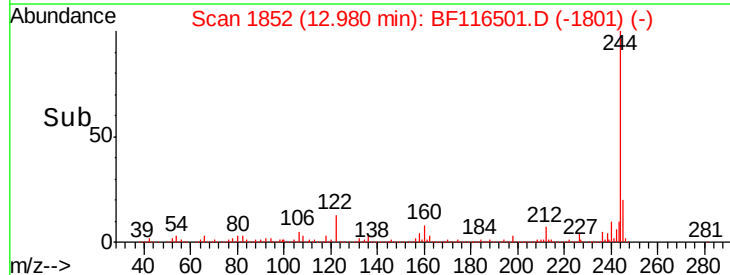
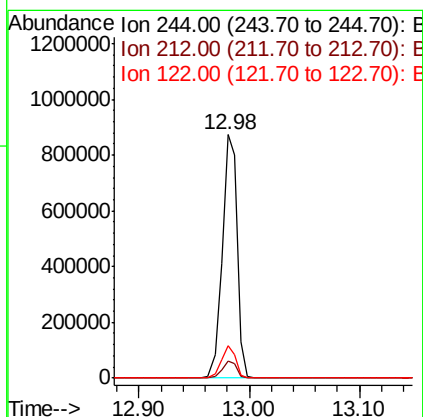
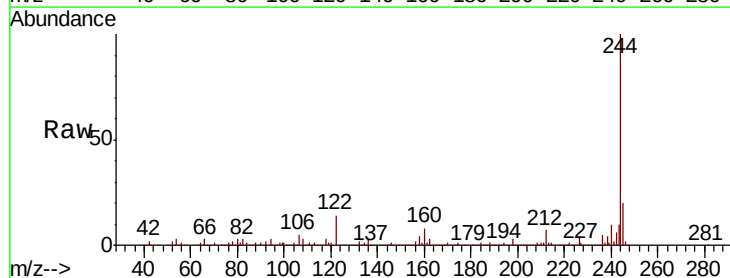
Instrument :
 BNA_F
 ClientSampleId :
 HD-02-082119

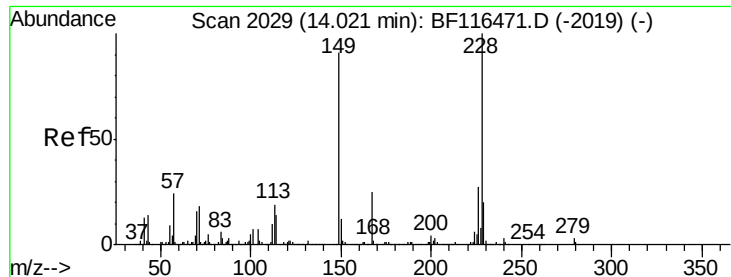
Tgt Ion:	202	Resp:	165939
Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	16.9	14.2	21.4



#79
 Terphenyl-d14
 Concen: 72.691 ng
 RT: 12.98 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: BF116501.D
 Acq: 24 Aug 2019 2:17

Tgt Ion:	244	Resp:	817053
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	13.5	10.2	15.4

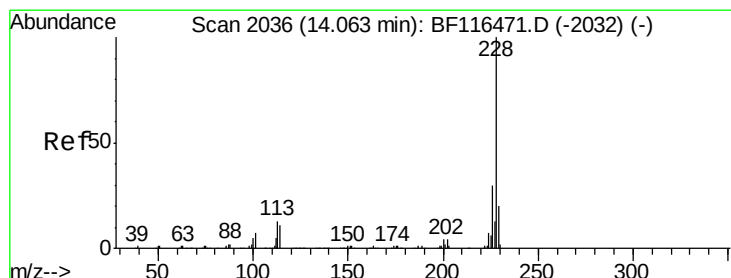
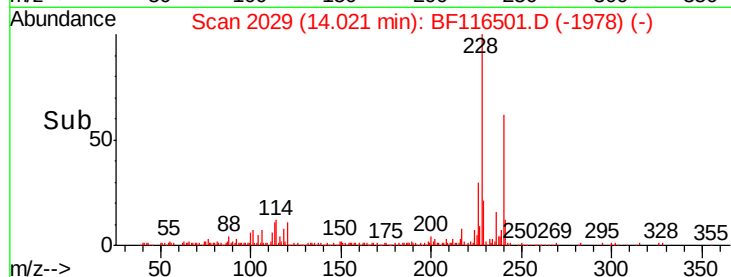
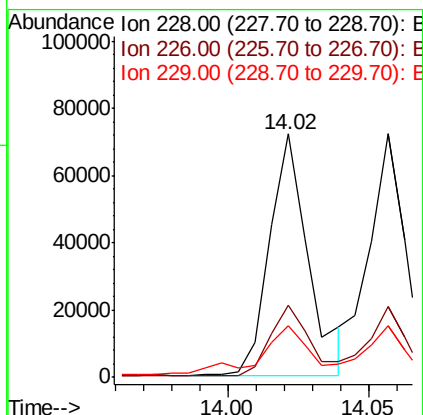
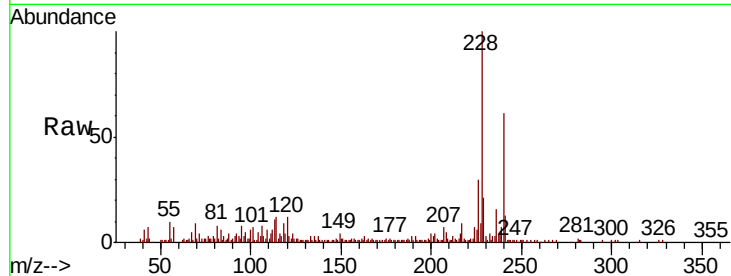




#81
Benzo(a)anthracene
Concen: 5.066 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.00 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

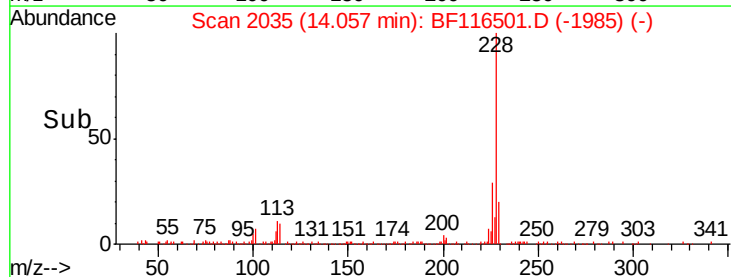
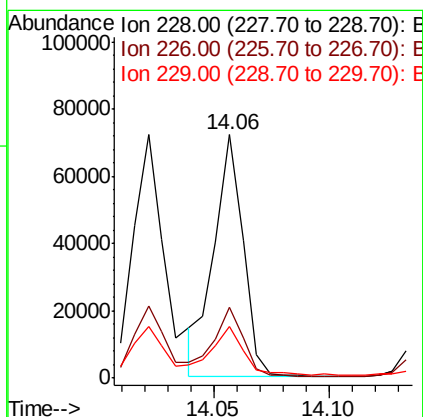
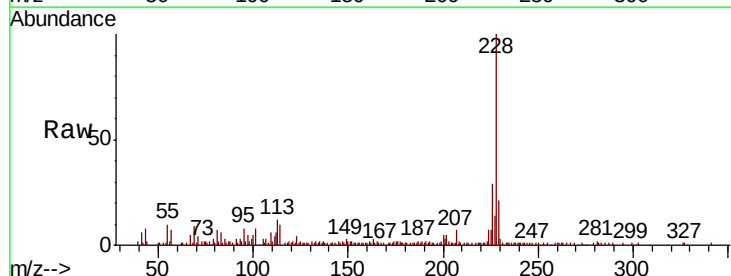
Instrument :
BNA_F
ClientSampleId :
HD-02-082119

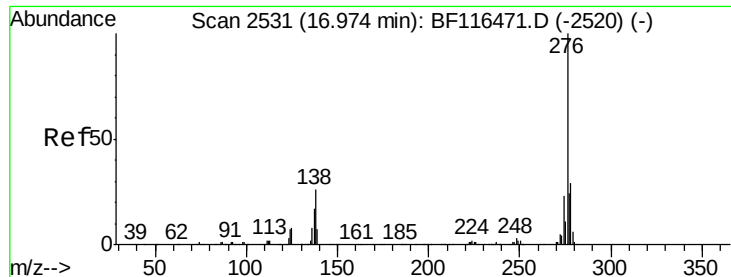
Tgt Ion:228 Resp: 68881
Ion Ratio Lower Upper
228 100
226 29.7 21.8 32.6
229 21.2 15.9 23.9



#83
Chrysene
Concen: 4.557 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.01 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Tgt Ion:228 Resp: 62800
Ion Ratio Lower Upper
228 100
226 29.2 24.2 36.2
229 21.0 15.8 23.6





#86

Indeno(1,2,3-cd)pyrene

Concen: 3.443 ng

RT: 16.96 min Scan# 2528

Delta R.T. -0.02 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Instrument :

BNA_F

ClientSampleId :

HD-02-082119

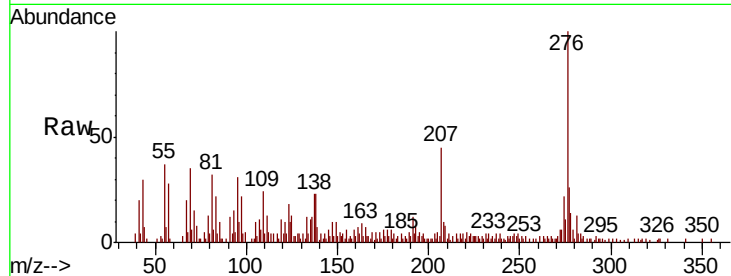
Tgt Ion: 276 Resp: 40647

Ion Ratio Lower Upper

276 100

138 24.2 22.9 34.3

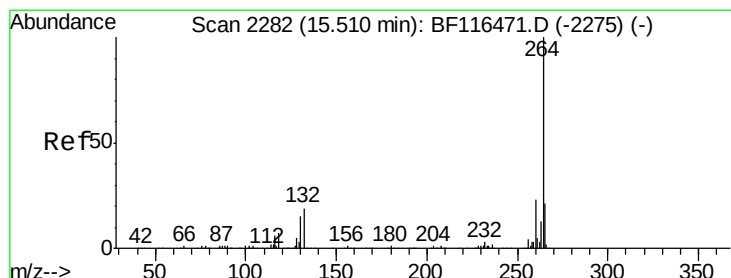
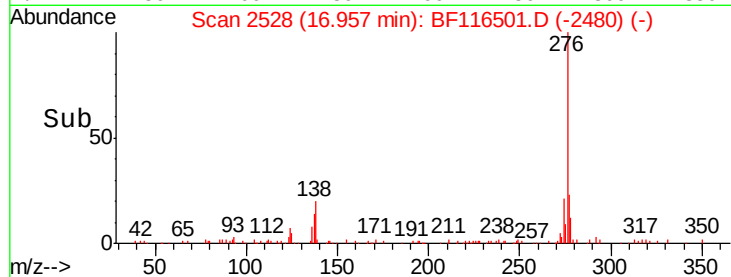
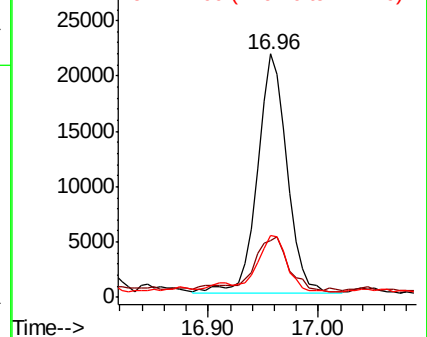
277 23.5 19.9 29.9



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

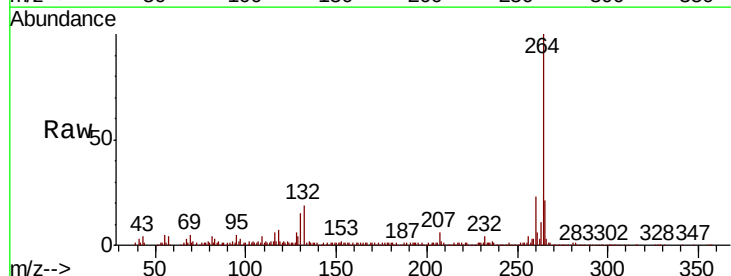
Tgt Ion: 264 Resp: 223195

Ion Ratio Lower Upper

264 100

260 23.4 18.8 28.2

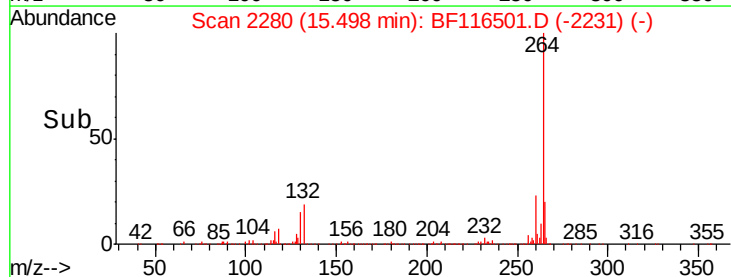
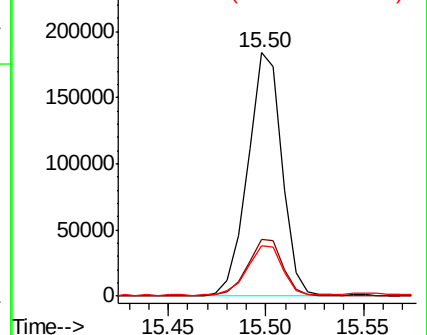
265 20.9 17.1 25.7

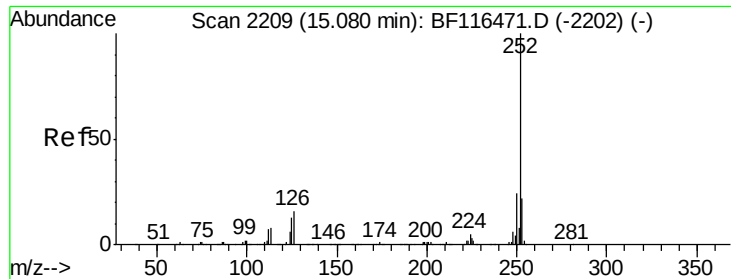


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

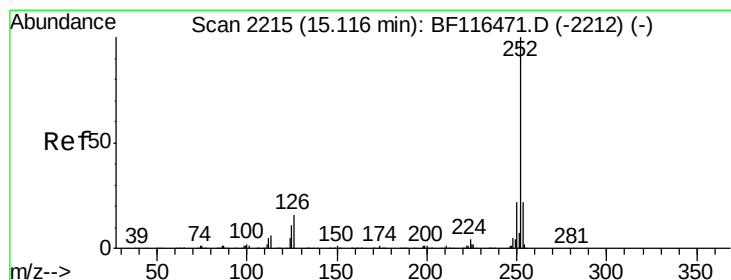
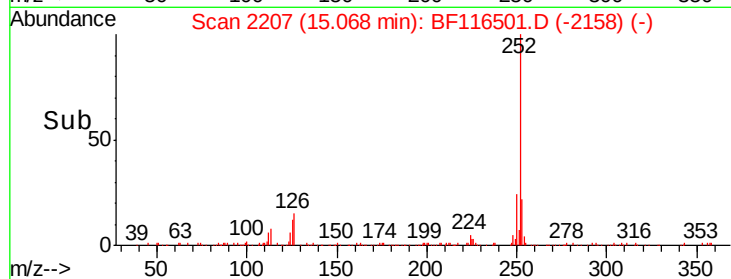
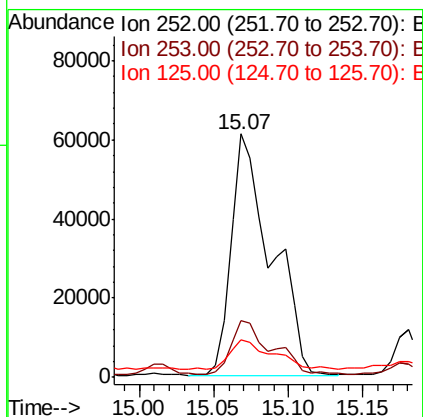
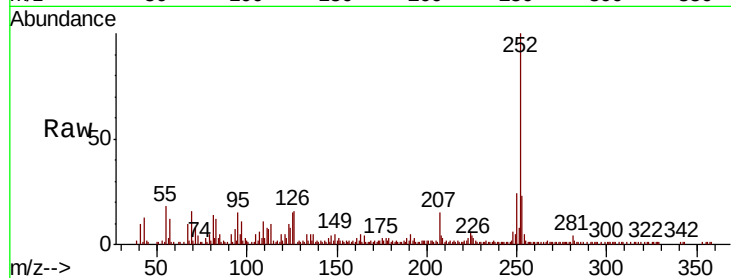




#88
Benzo(b)fluoranthene
Concen: 8.336 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

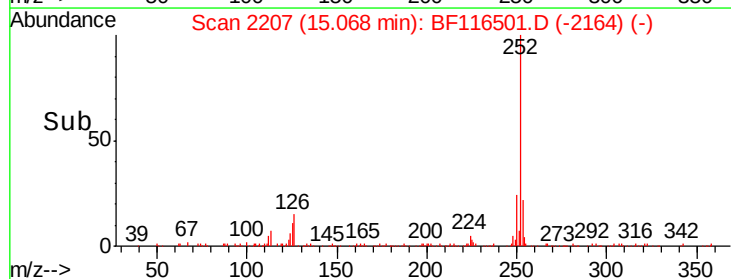
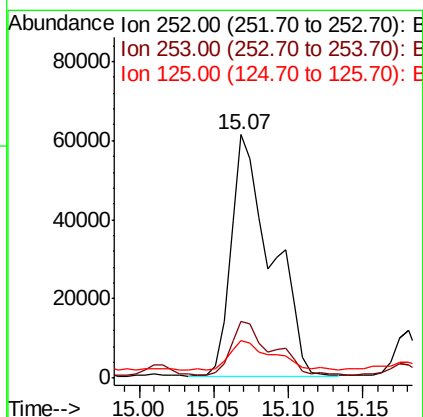
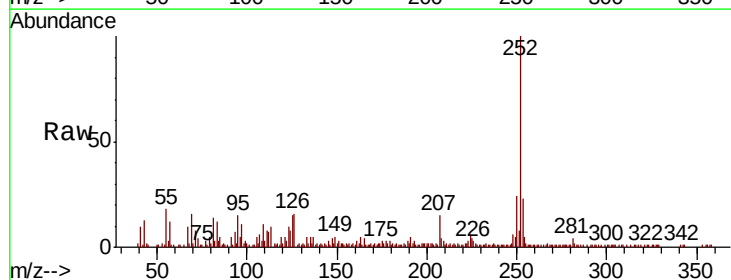
Instrument :
BNA_F
ClientSampleId :
HD-02-082119

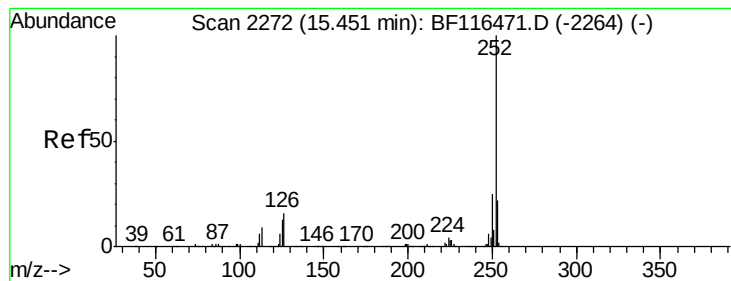
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	15.4	10.1	15.1#



#89
Benzo(k)fluoranthene
Concen: 9.201 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.05 min
Lab File: BF116501.D
Acq: 24 Aug 2019 2:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2
125	15.4	9.1	13.7#





#90

Benzo(a)pyrene

Concen: 5.185 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.02 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

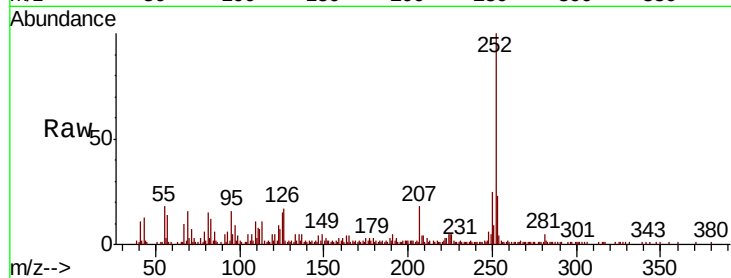
Instrument :

BNA_F

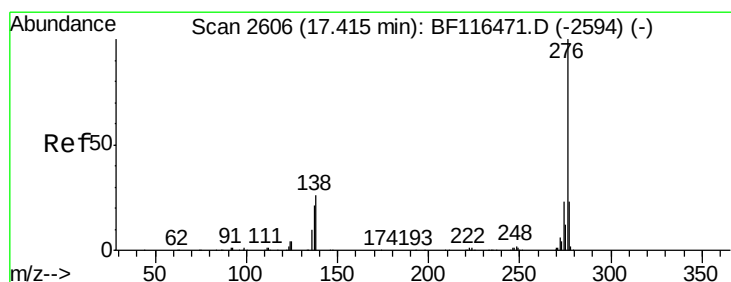
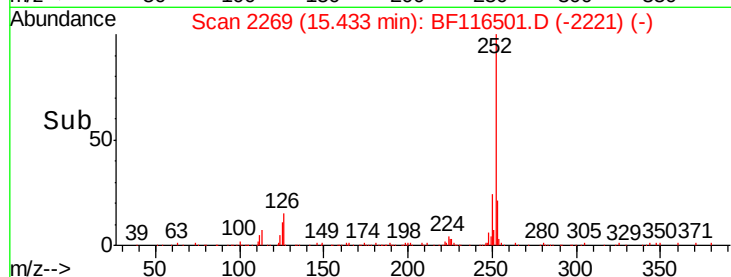
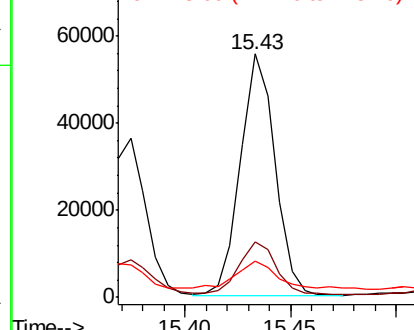
ClientSampleId :

HD-02-082119

Tgt Ion:	252	Resp:	63183
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.2	25.8
125	15.1	10.2	15.4



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: 4.073 ng

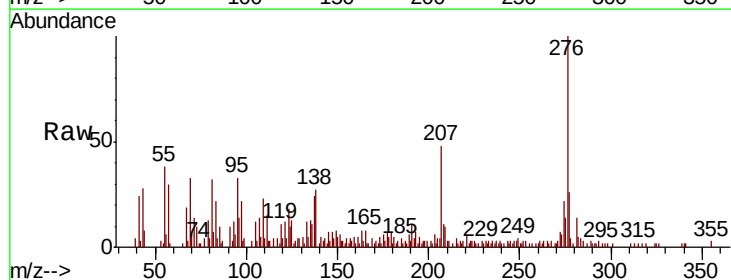
RT: 17.40 min Scan# 2604

Delta R.T. -0.01 min

Lab File: BF116501.D

Acq: 24 Aug 2019 2:17

Tgt Ion:	276	Resp:	38886
Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.7	28.1
138	27.0	20.8	31.2



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

