

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080219\
 Data File : BF115964.D
 Acq On : 2 Aug 2019 23:11
 Operator : HP/JU
 Sample : K4093-01 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080119

Quant Time: Aug 03 03:41:27 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	101973	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	408704	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	223276	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	413287	20.00	ng	0.00
76) Chrysene-d12	14.02	240	298184	20.00	ng	0.00
87) Perylene-d12	15.50	264	346650	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	107852	17.71	ng	0.00
7) Phenol-d6	6.48	99	152332	19.82	ng	0.00
23) Nitrobenzene-d5	7.41	82	84725	11.97	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	38696	17.88	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	182726	15.33	ng	0.00
79) Terphenyl-d14	12.96	244	199098	14.07	ng	-0.01

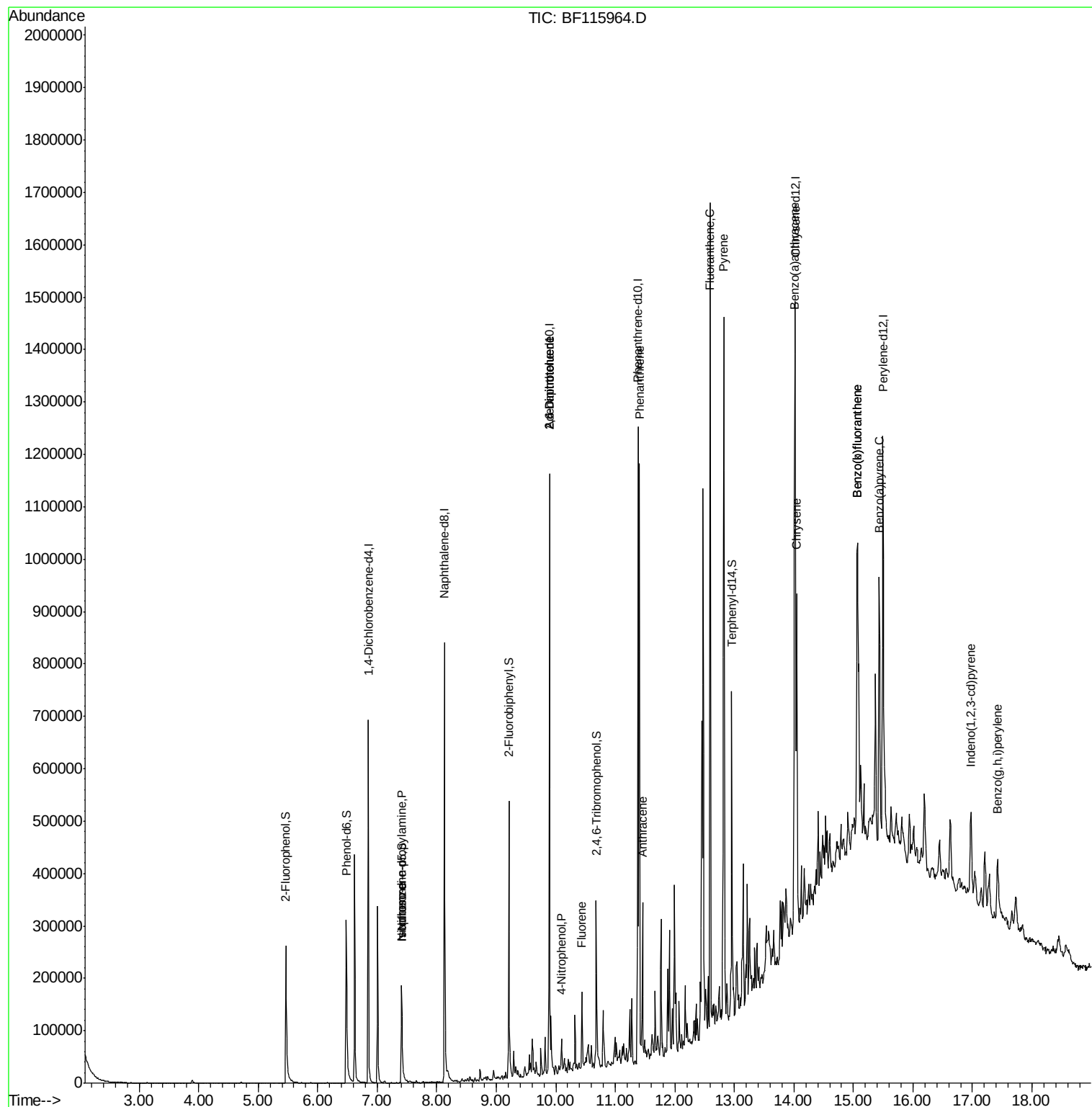
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.41	70	10736	2.254	ng	# 79
25) Isophorone	7.41	82	84724	6.258	ng	# 66
51) 2,6-Dinitrotoluene	9.89	165	30522	9.238	ng	# 28
56) 4-Nitrophenol	10.10	139	8667	3.314	ng	# 14
57) 2,4-Dinitrotoluene	9.89	165	30522	6.939	ng	# 25
58) Fluorene	10.44	166	44958	3.422	ng	99
71) Phenanthrene	11.40	178	393225	18.611	ng	99
72) Anthracene	11.46	178	128371	6.004	ng	98
75) Fluoranthene	12.59	202	640837	28.972	ng	99
78) Pyrene	12.82	202	552597	24.584	ng	99
81) Benzo(a)anthracene	14.01	228	280520	14.719	ng	97
83) Chrysene	14.04	228	241491	13.051	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	102340	6.585	ng	98
88) Benzo(b)fluoranthene	15.07	252	427361	21.321	ng	# 95
89) Benzo(k)fluoranthene	15.07	252	427361	21.890	ng	99
90) Benzo(a)pyrene	15.43	252	232409	12.971	ng	97
92) Benzo(g,h,i)perylene	17.42	276	92884	6.098	ng	96

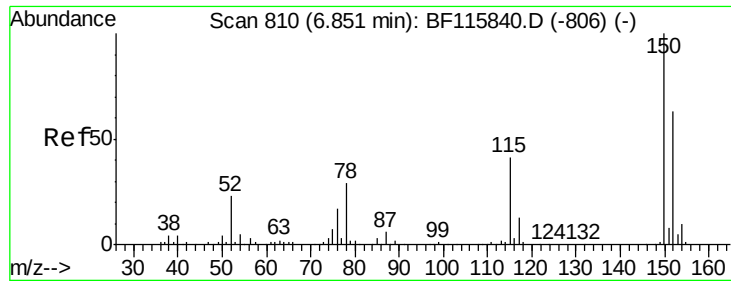
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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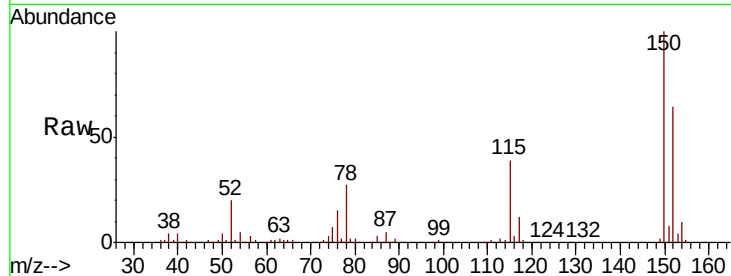


#1

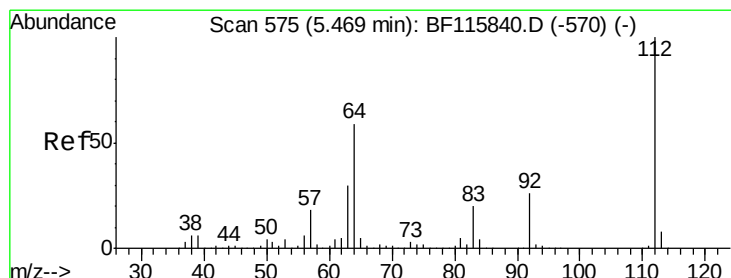
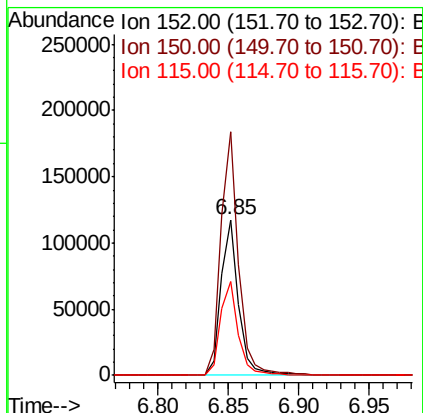
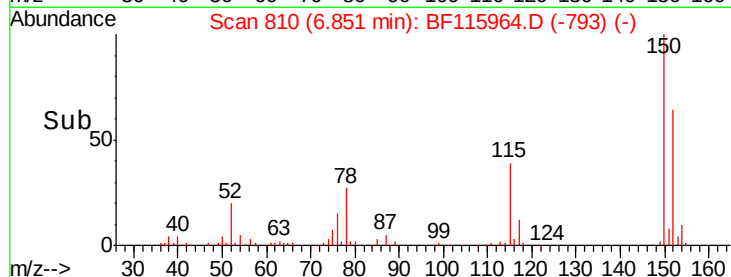
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080119

Tgt Ion:152 Resp: 101973
 Ion Ratio Lower Upper
 152 100
 150 156.5 127.4 191.0
 115 60.5 51.8 77.8



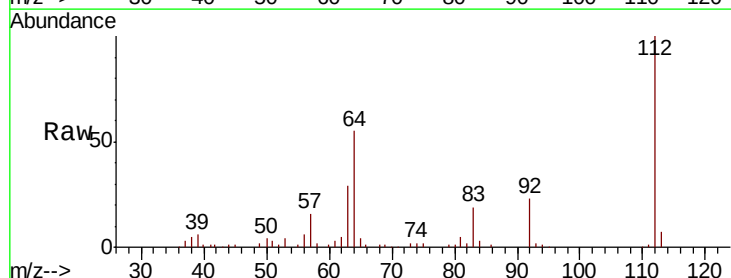
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



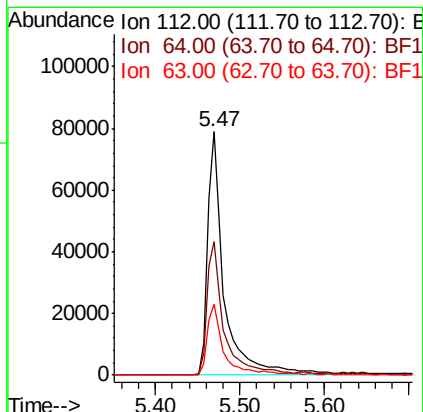
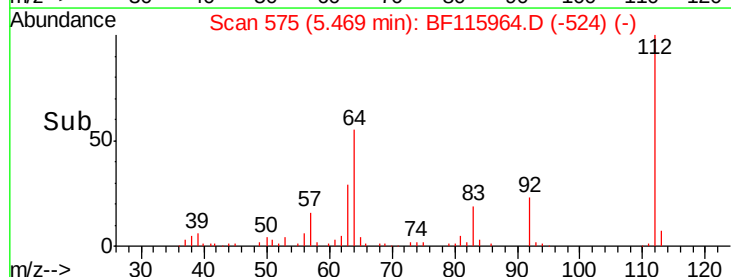
#5

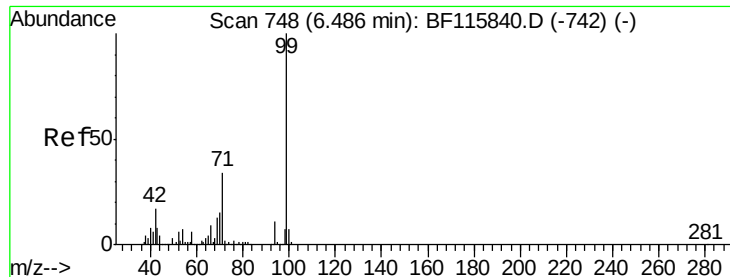
2-Fluorophenol
 Concen: 17.706 ng
 RT: 5.47 min Scan# 575
 Delta R.T. 0.00 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Tgt Ion:112 Resp: 107852
 Ion Ratio Lower Upper
 112 100
 64 55.0 46.8 70.2
 63 29.0 24.2 36.2



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: 19.821 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

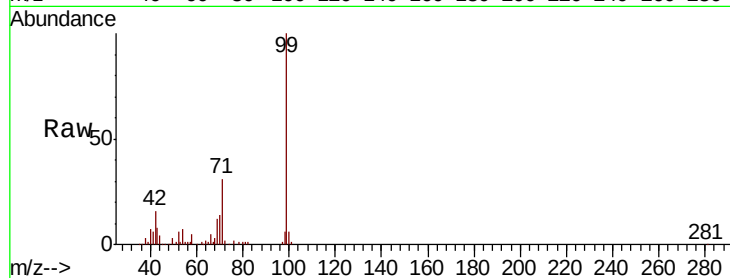
Tgt Ion: 99 Resp: 152332

Ion Ratio Lower Upper

99 100

42 16.3 13.8 20.6

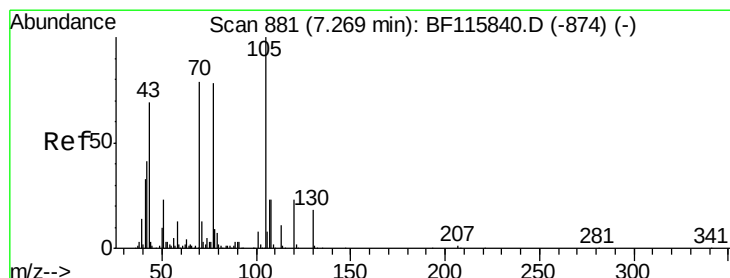
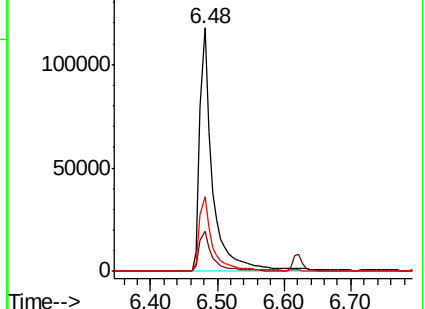
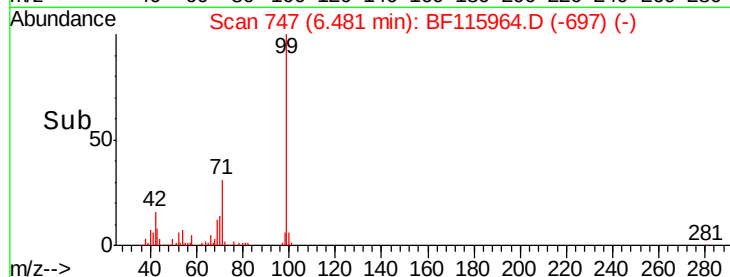
71 30.8 27.1 40.7



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.254 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Tgt Ion: 70 Resp: 10736

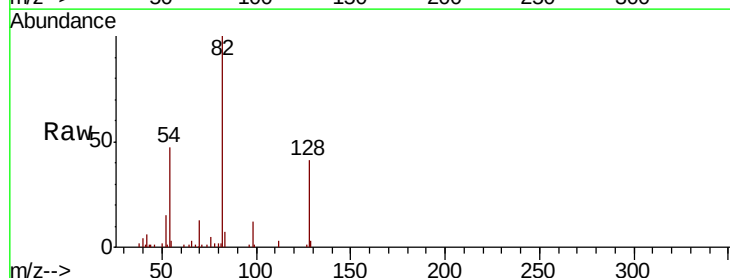
Ion Ratio Lower Upper

70 100

42 46.3 41.8 62.8

101 0.0 7.7 11.5#

130 0.0 17.8 26.6#

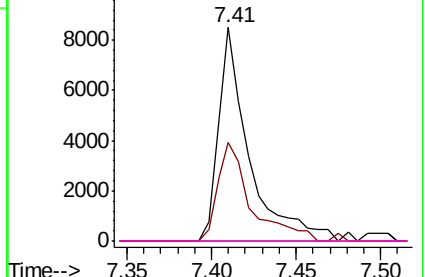
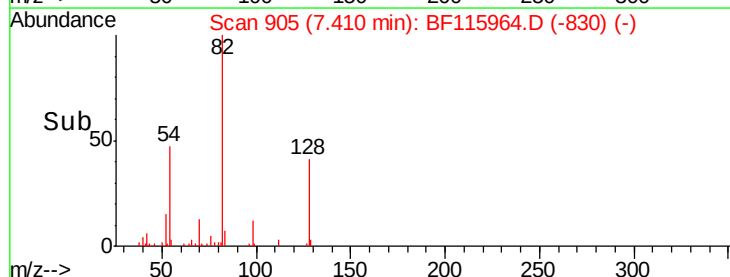


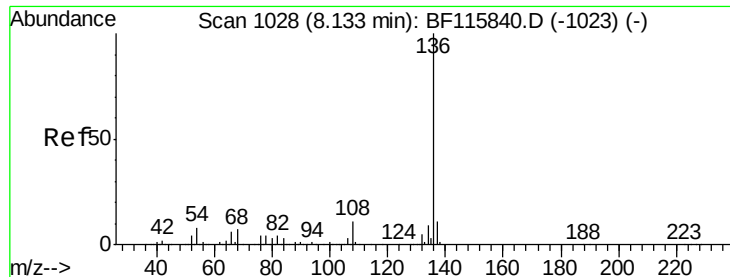
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

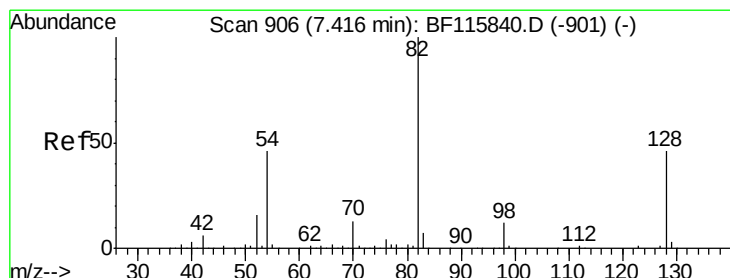
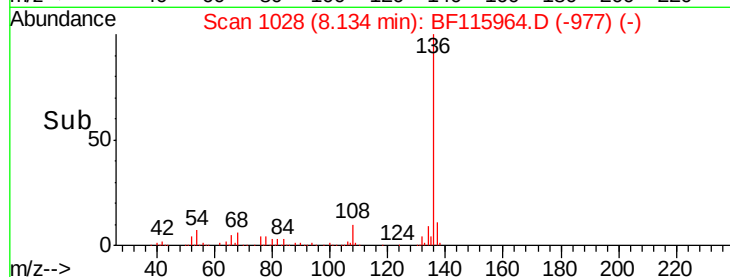
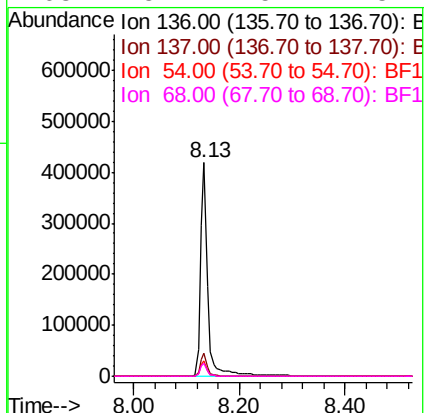
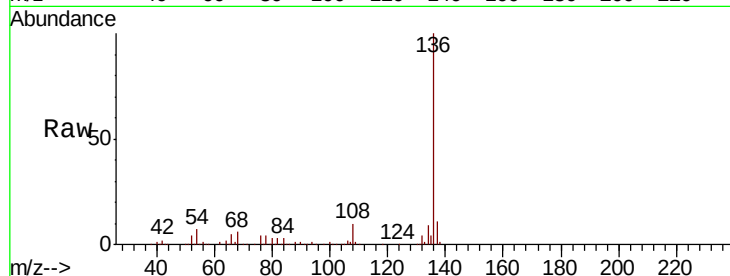




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

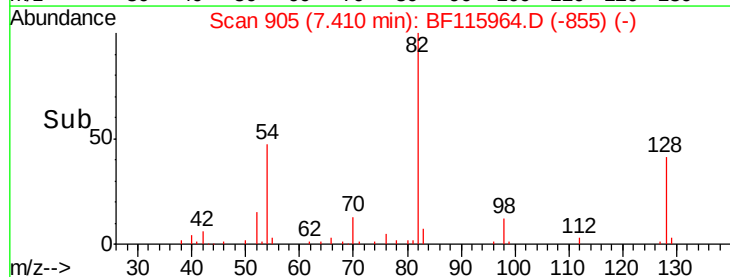
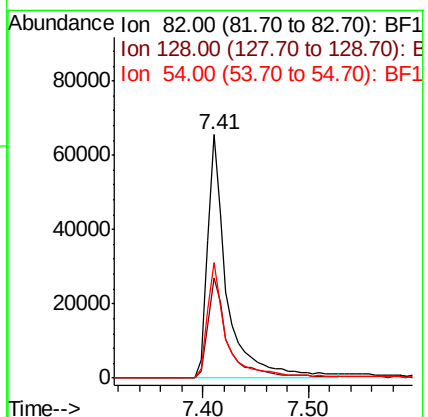
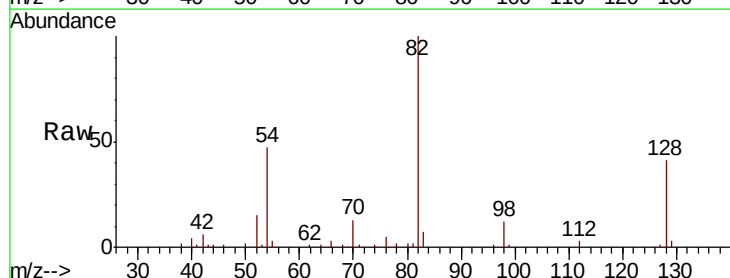
Instrument :
BNA_F
ClientSampleId :
PL-02-080119

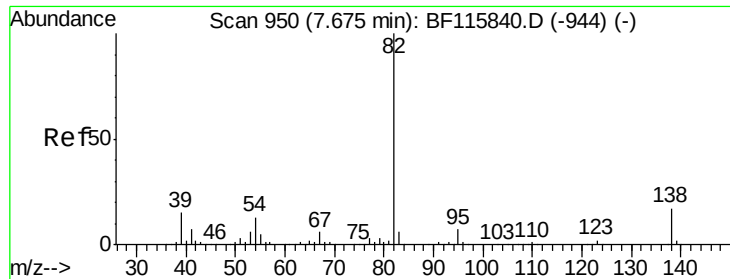
Tgt Ion:	136	Resp:	408704
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	7.0	6.1	9.1
68	5.7	5.4	8.2



#23
Nitrobenzene-d5
Concen: 11.966 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

Tgt Ion:	82	Resp:	84725
Ion	Ratio	Lower	Upper
82	100		
128	41.4	36.6	55.0
54	47.3	36.6	55.0





#25

Isophorone

Concen: 6.258 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

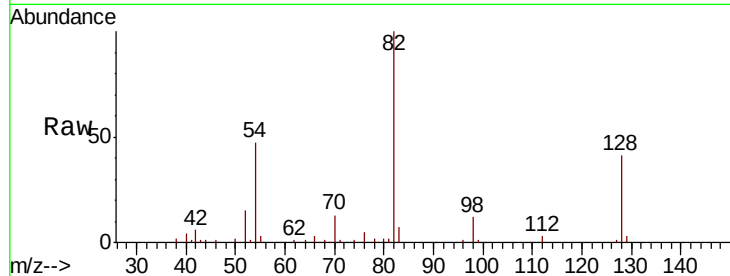
Tgt Ion: 82 Resp: 84724

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

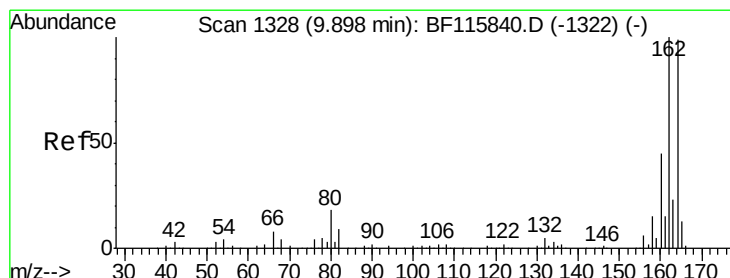
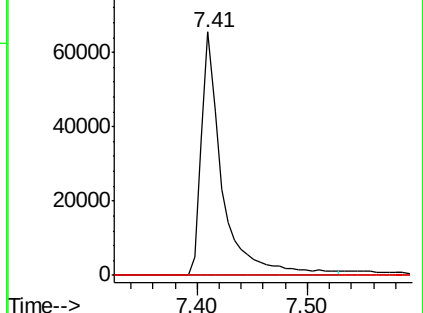
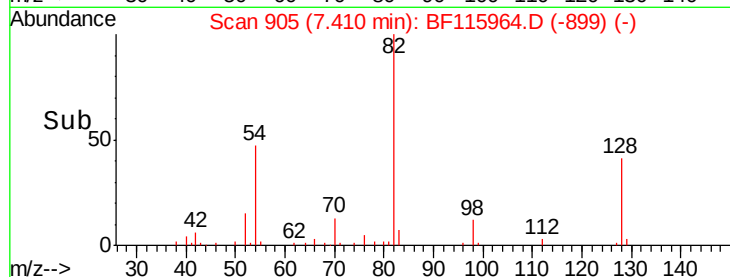
138 0.0 13.9 20.9#



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): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

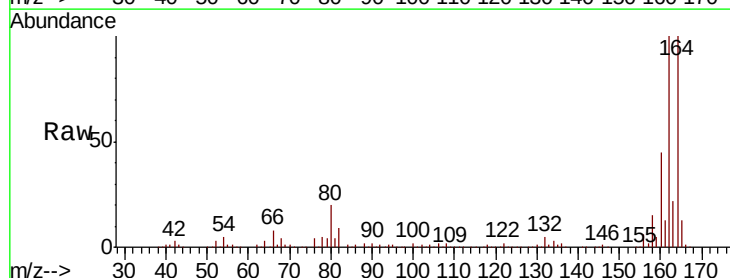
Tgt Ion: 164 Resp: 223276

Ion Ratio Lower Upper

164 100

162 99.8 80.8 121.2

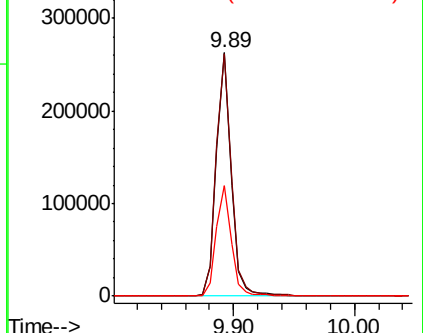
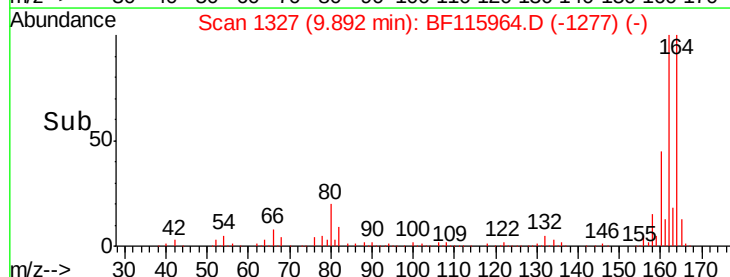
160 45.3 36.2 54.4

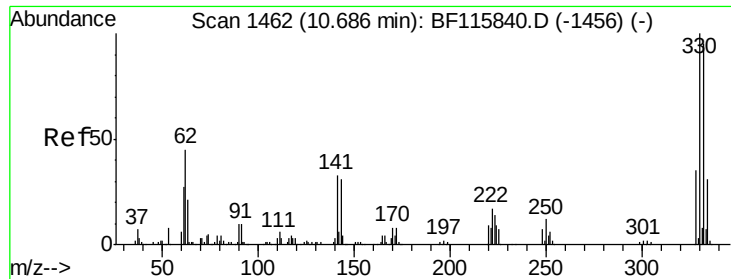


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

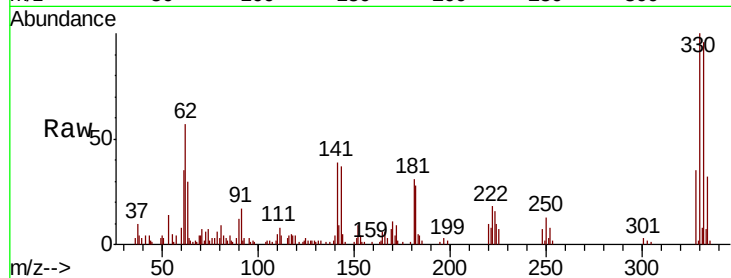




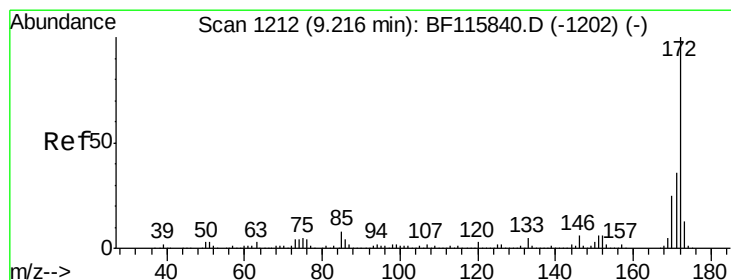
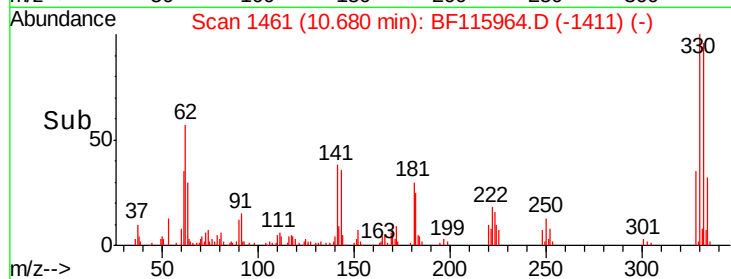
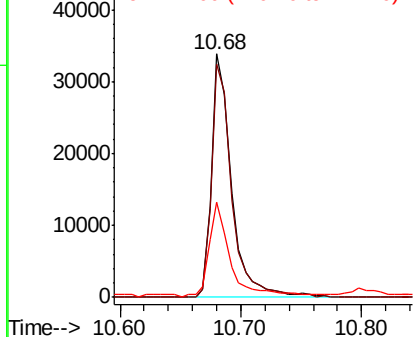
#42
 2,4,6-Tribromophenol
 Concen: 17.876 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Instrument :
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 ClientSampleId :
 PL-02-080119

Tgt Ion:330 Resp: 38696
 Ion Ratio Lower Upper
 330 100
 332 97.3 77.7 116.5
 141 42.8 28.1 42.1#

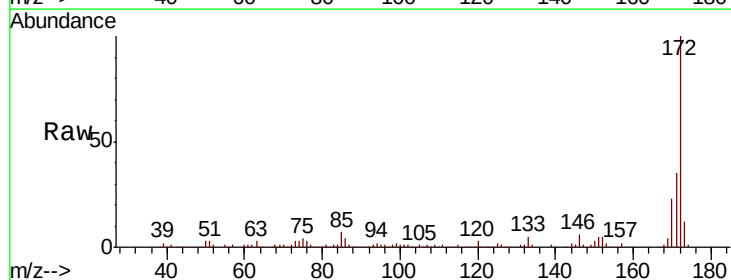


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

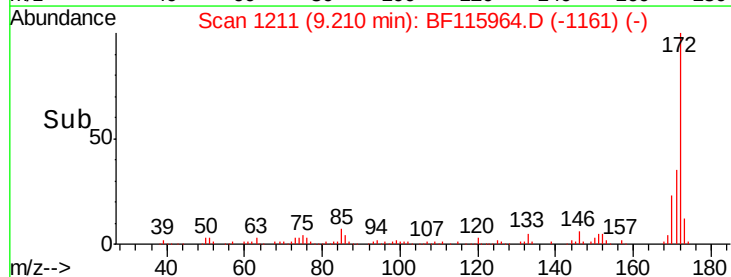
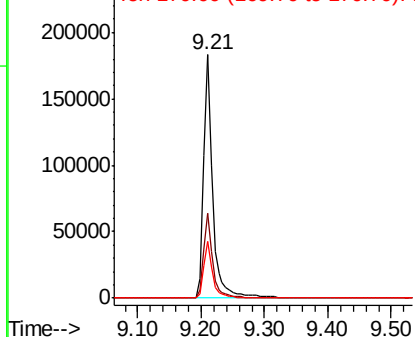


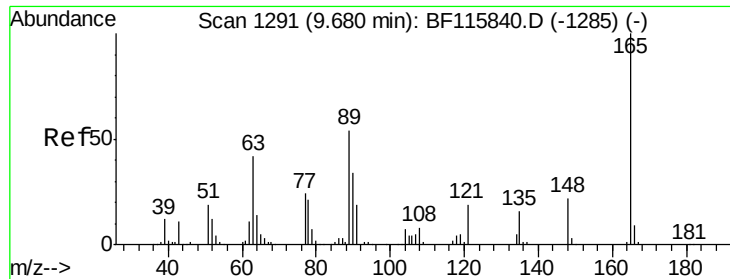
#45
 2-Fluorobiphenyl
 Concen: 15.329 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Tgt Ion:172 Resp: 182726
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.1 43.7
 170 23.5 20.1 30.1



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

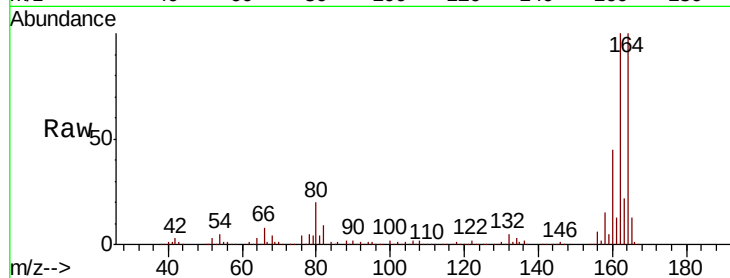




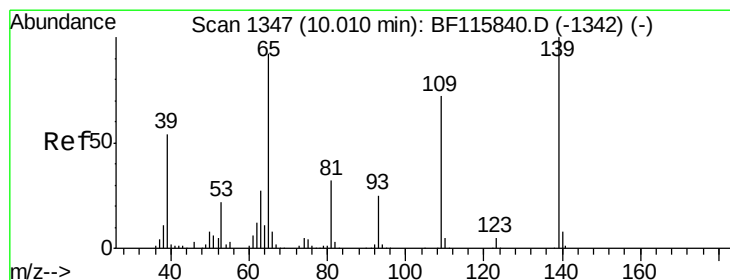
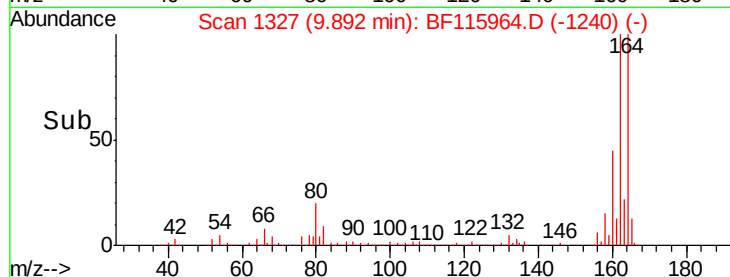
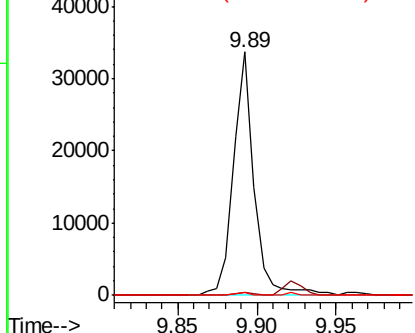
#51
 2,6-Dinitrotoluene
 Concen: 9.238 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. 0.21 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	39.4	59.2#
89	1.3	43.0	64.6#

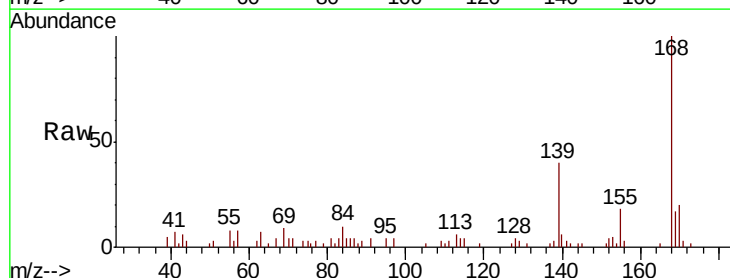


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

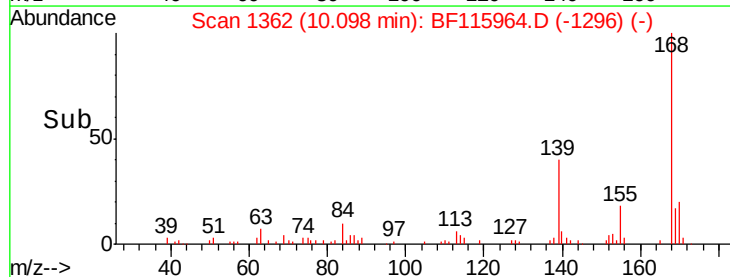
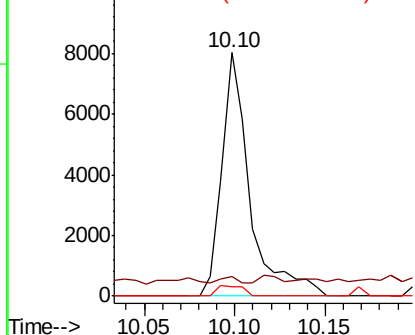


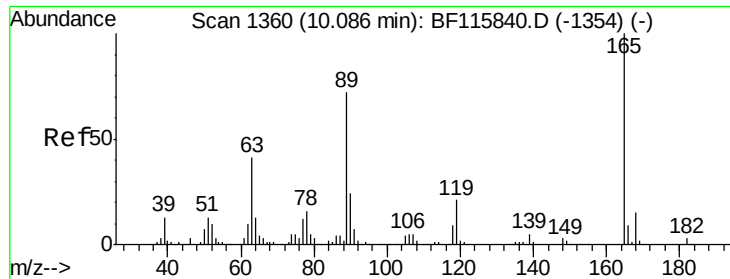
#56
 4-Nitrophenol
 Concen: 3.314 ng
 RT: 10.10 min Scan# 1362
 Delta R.T. 0.09 min
 Lab File: BF115964.D
 Acq: 2 Aug 2019 23:11

Tgt Ion	Ratio	Lower	Upper
139	100		
109	8.0	52.0	92.0#
65	4.1	72.6	112.6#



Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF1





#57

2,4-Dinitrotoluene

Concen: 6.939 ng

RT: 9.89 min Scan# 1327

Delta R.T. -0.19 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

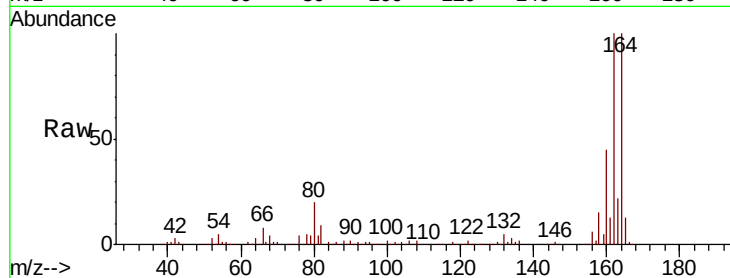
Instrument :

BNA_F

ClientSampleId :

PL-02-080119

Tgt Ion:	165	Resp:	30522
Ion	Ratio	Lower	Upper
165	100		
63	1.3	33.2	49.8#
89	1.3	57.3	85.9#
182	0.0	2.1	3.1#



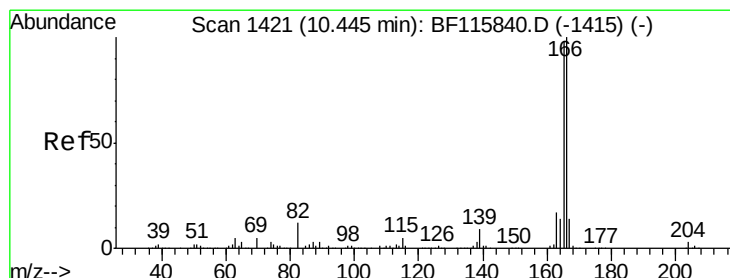
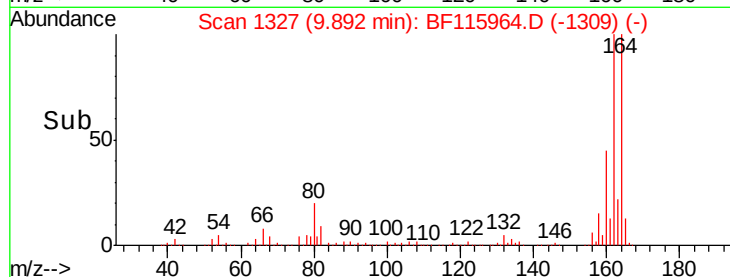
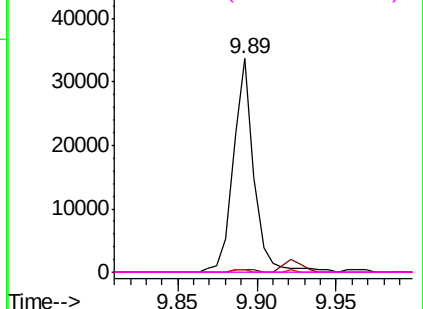
Abundance

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: 3.422 ng

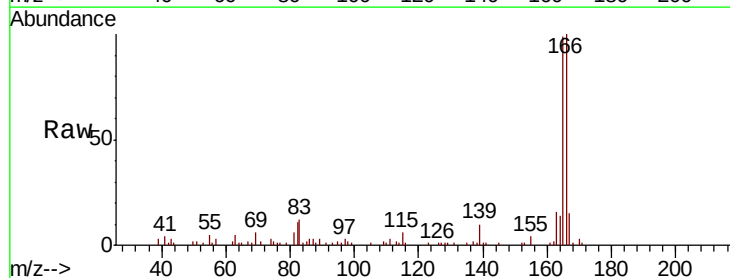
RT: 10.44 min Scan# 1420

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Tgt Ion:	166	Resp:	44958
Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.6	118.0
167	14.8	10.9	16.3

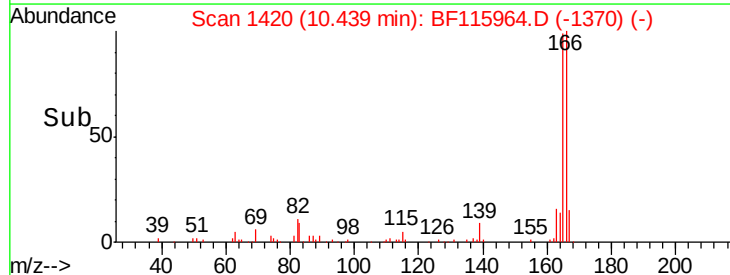
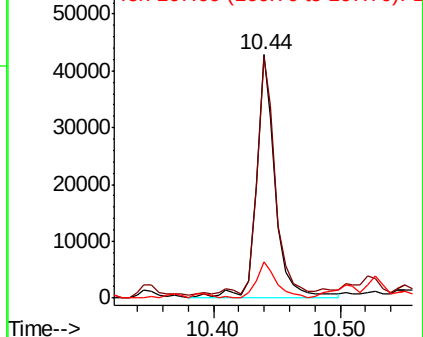


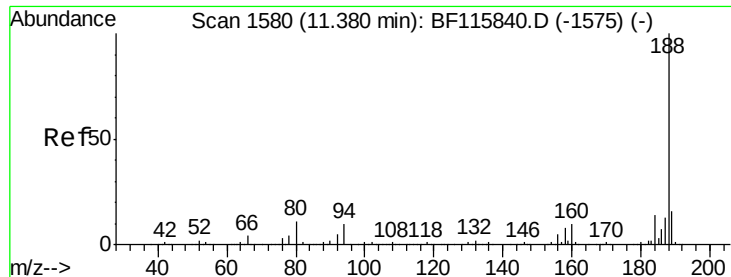
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

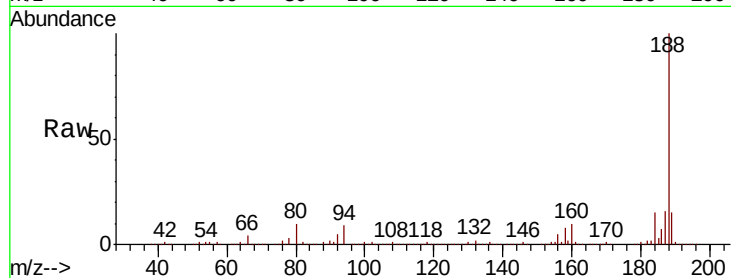
Tgt Ion:188 Resp: 413287

Ion Ratio Lower Upper

188 100

94 9.2 8.0 12.0

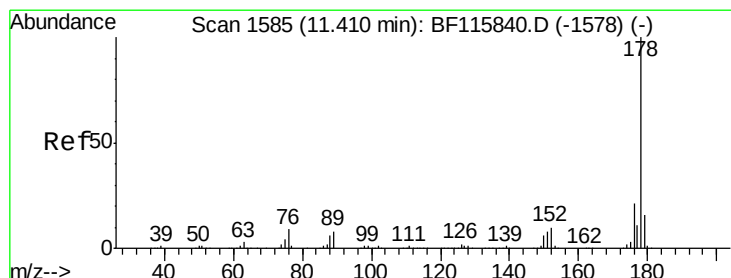
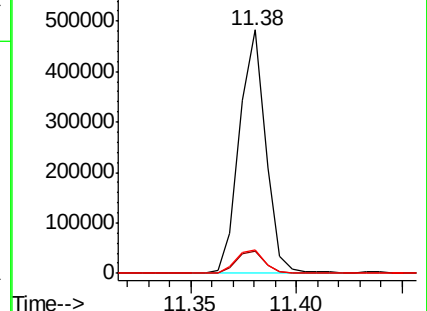
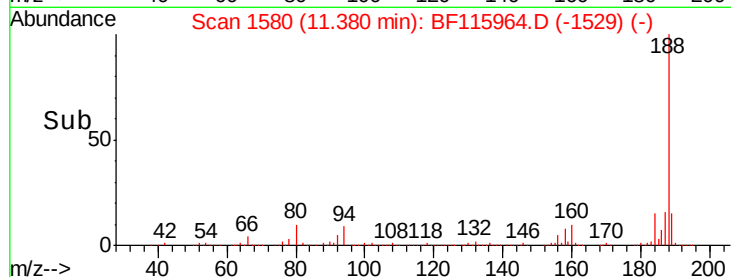
80 9.8 8.6 12.8



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



#71

Phenanthrene

Concen: 18.611 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

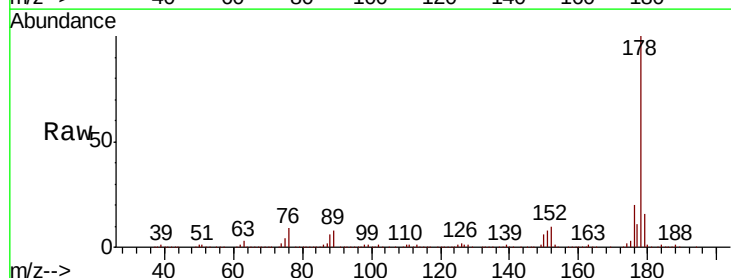
Tgt Ion:178 Resp: 393225

Ion Ratio Lower Upper

178 100

176 19.9 16.5 24.7

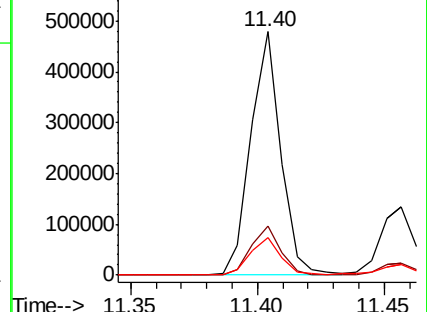
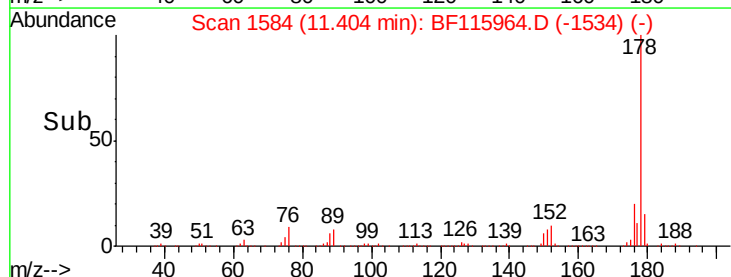
179 15.5 12.6 18.8

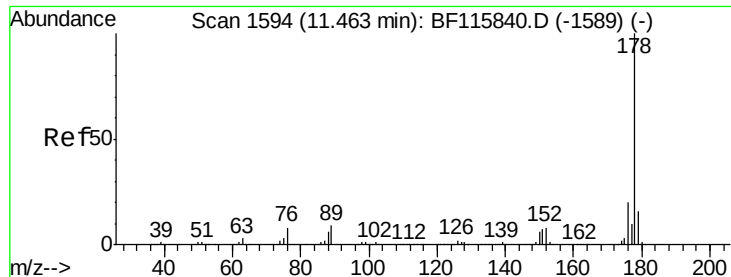


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 6.004 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

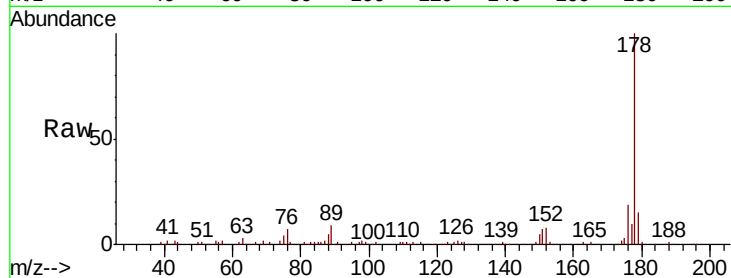
Tgt Ion:178 Resp: 128371

Ion Ratio Lower Upper

178 100

176 18.6 15.7 23.5

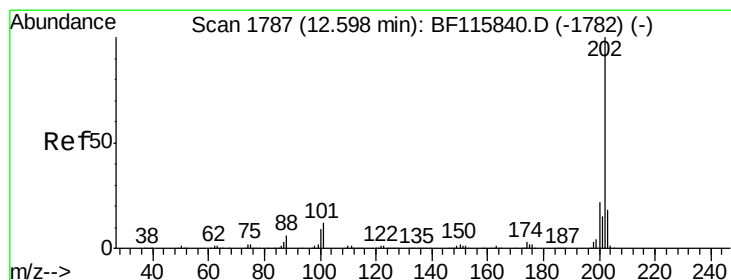
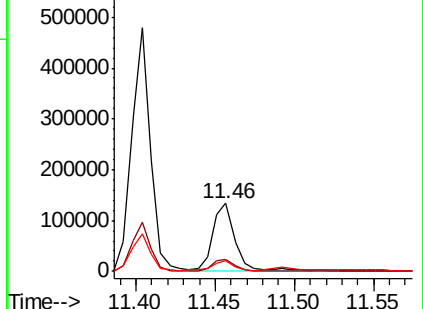
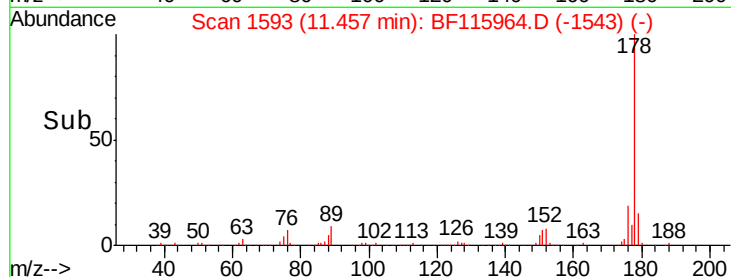
179 15.2 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 28.972 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

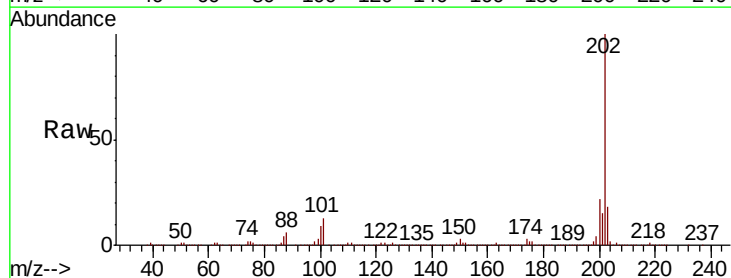
Tgt Ion:202 Resp: 640837

Ion Ratio Lower Upper

202 100

101 12.6 0.0 31.5

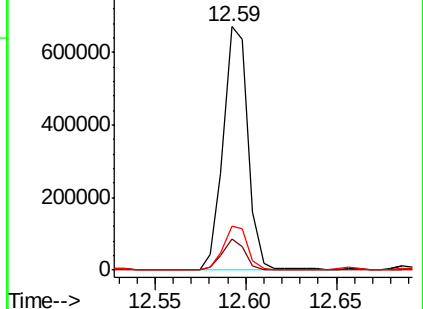
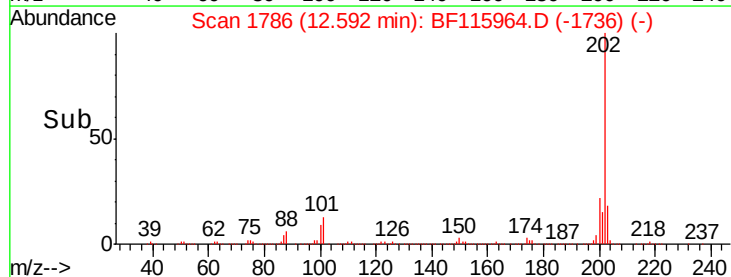
203 18.1 0.0 37.9

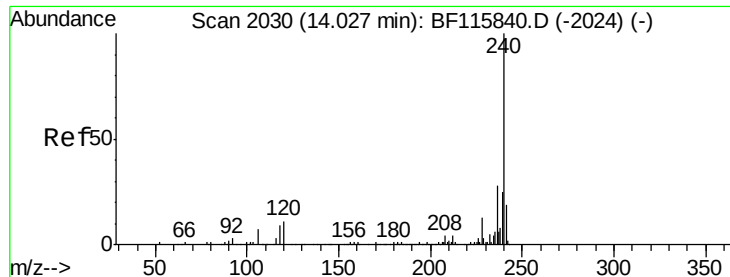


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

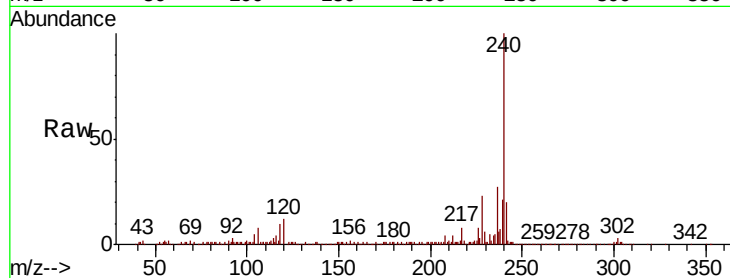
Tgt Ion:240 Resp: 298184

Ion Ratio Lower Upper

240 100

120 12.3 8.5 12.7

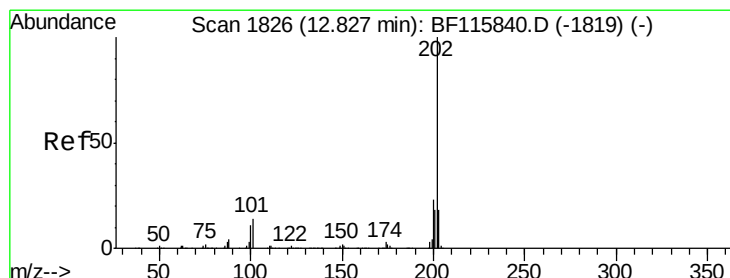
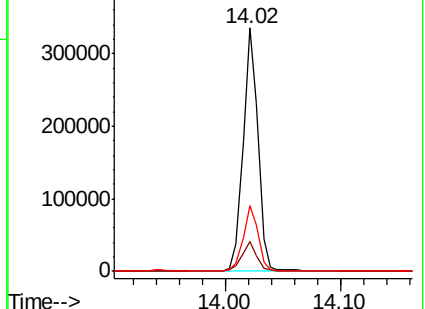
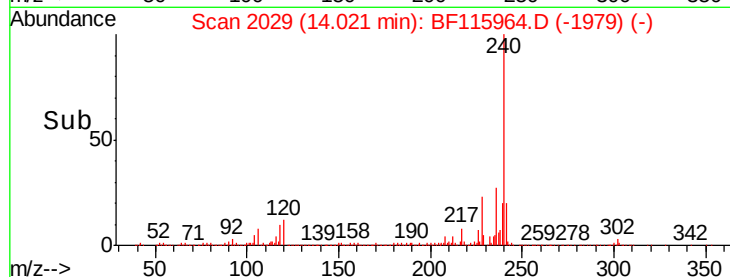
236 26.8 22.2 33.2



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: 24.584 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

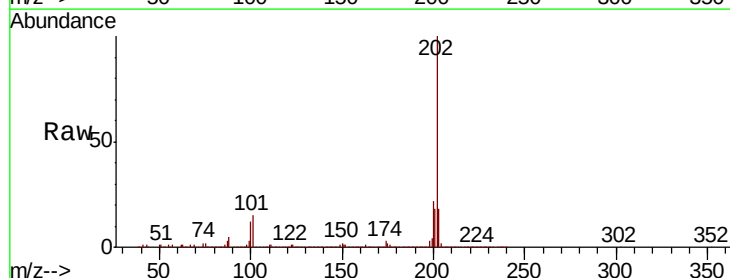
Tgt Ion:202 Resp: 552597

Ion Ratio Lower Upper

202 100

200 21.9 18.2 27.2

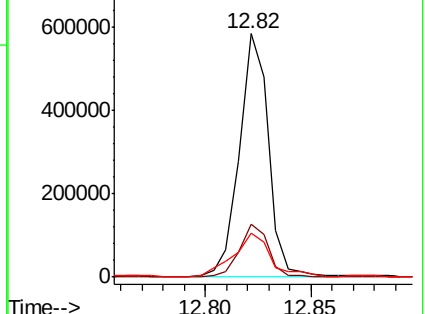
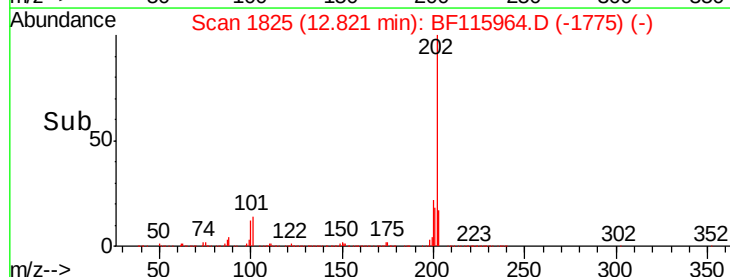
203 17.9 14.3 21.5

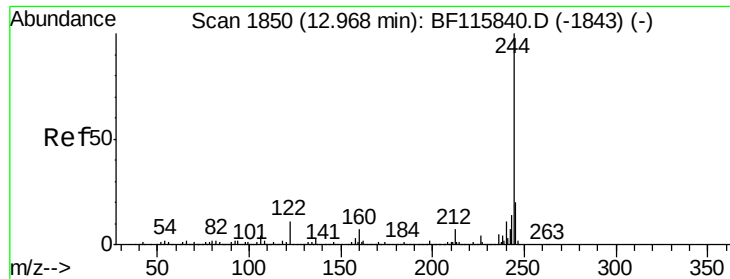


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 14.070 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

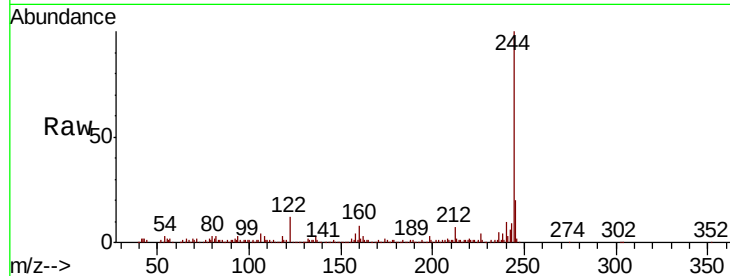
Tgt Ion:244 Resp: 199098

Ion Ratio Lower Upper

244 100

212 7.2 5.6 8.4

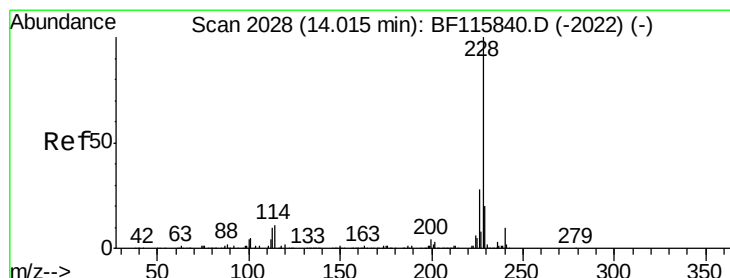
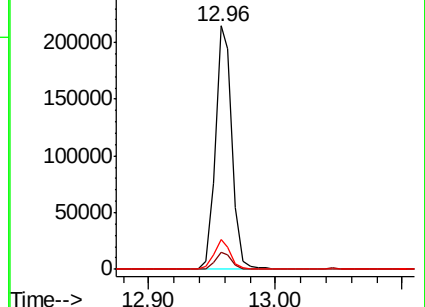
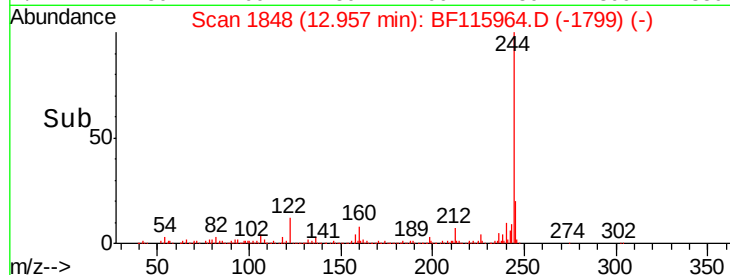
122 12.2 8.6 13.0



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: 14.719 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

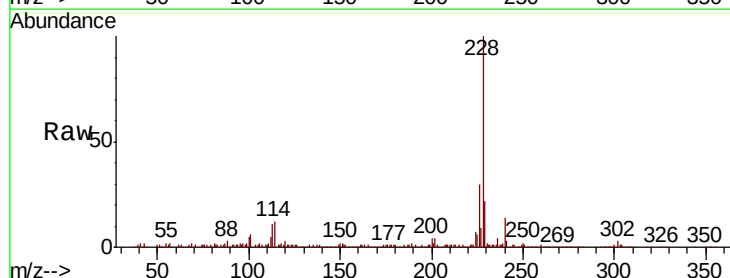
Tgt Ion:228 Resp: 280520

Ion Ratio Lower Upper

228 100

226 29.6 22.5 33.7

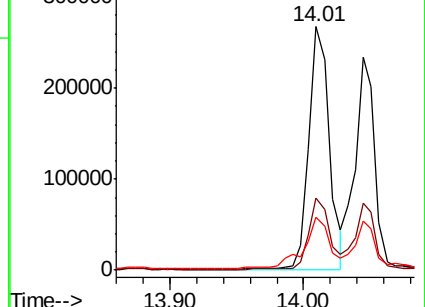
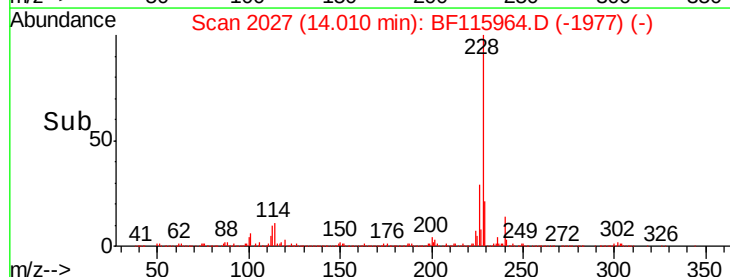
229 21.5 16.1 24.1

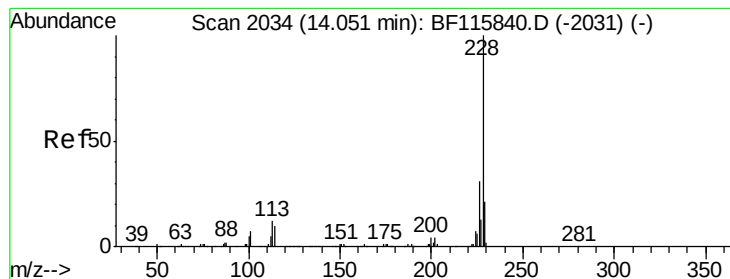


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 13.051 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

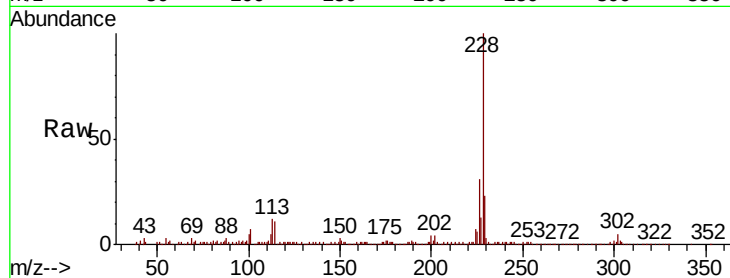
Tgt Ion:228 Resp: 241491

Ion Ratio Lower Upper

228 100

226 31.1 24.8 37.2

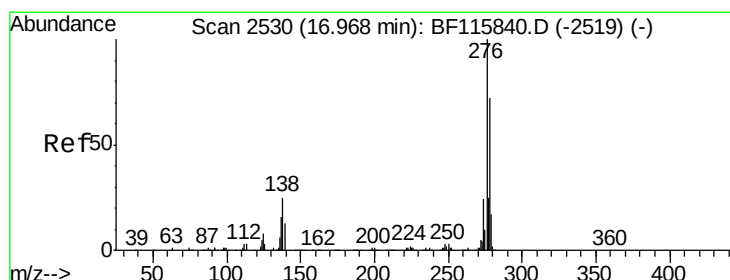
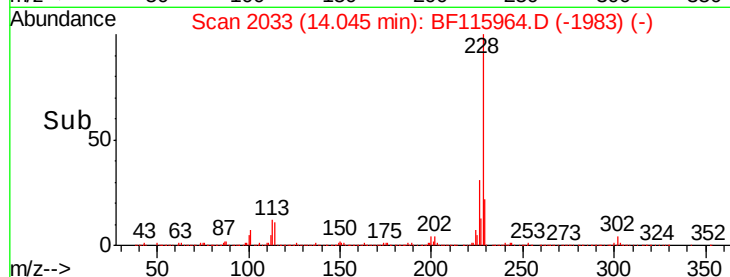
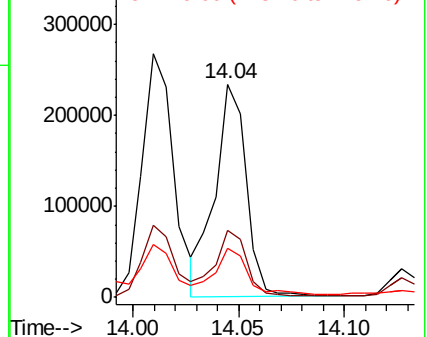
229 22.9 16.4 24.6



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

Indeno(1,2,3-cd)pyrene

Concen: 6.585 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

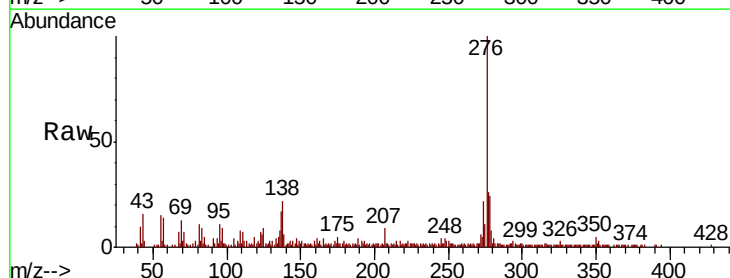
Tgt Ion:276 Resp: 102340

Ion Ratio Lower Upper

276 100

138 22.4 19.6 29.4

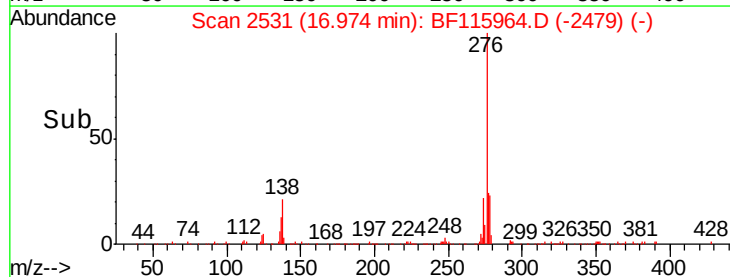
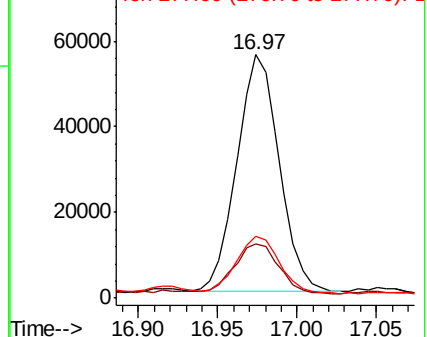
277 25.0 20.1 30.1

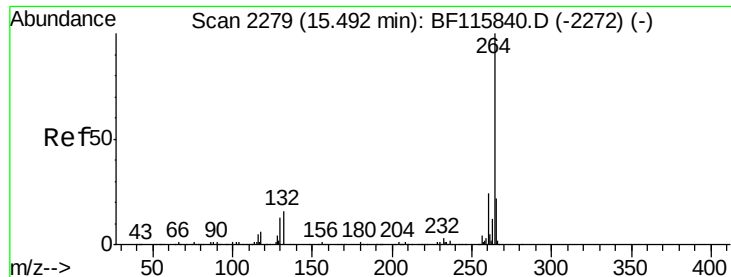


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

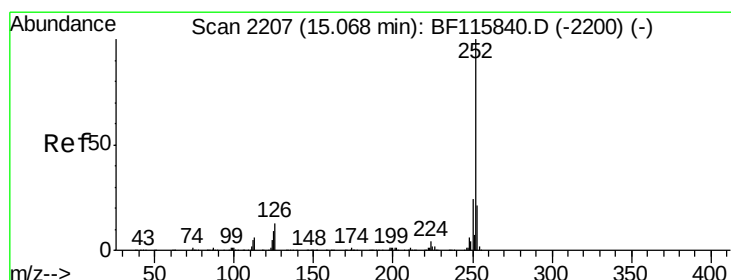
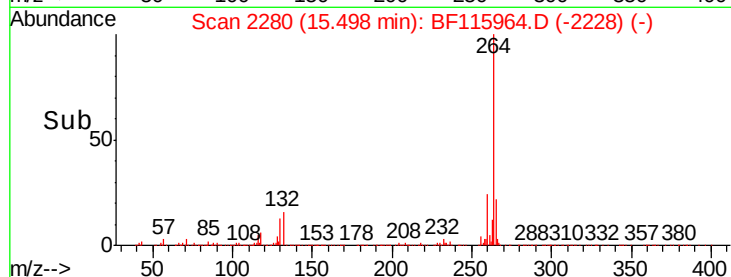
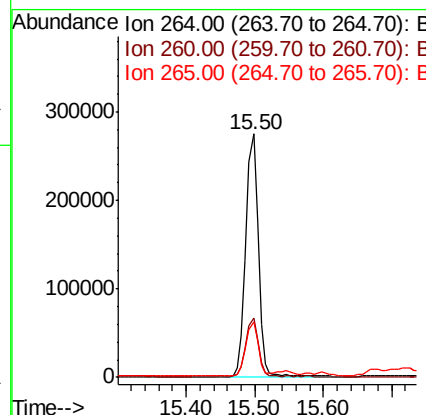
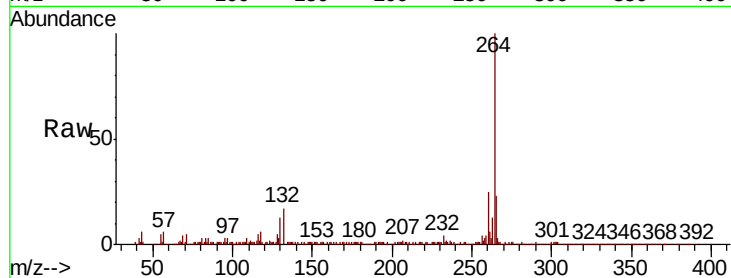




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

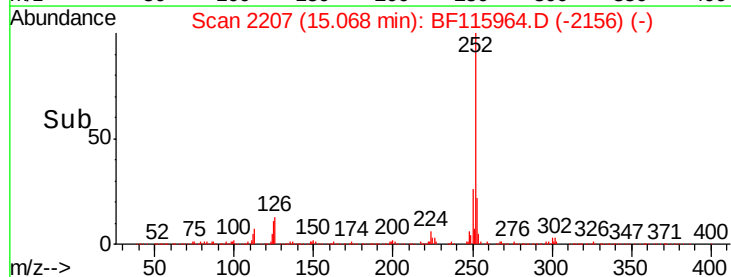
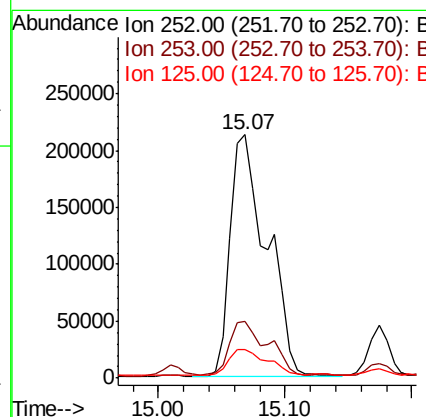
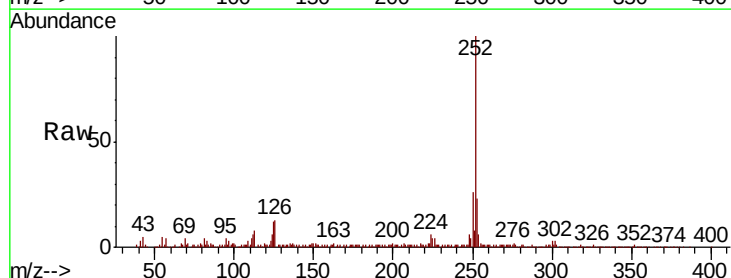
Instrument :
BNA_F
ClientSampleId :
PL-02-080119

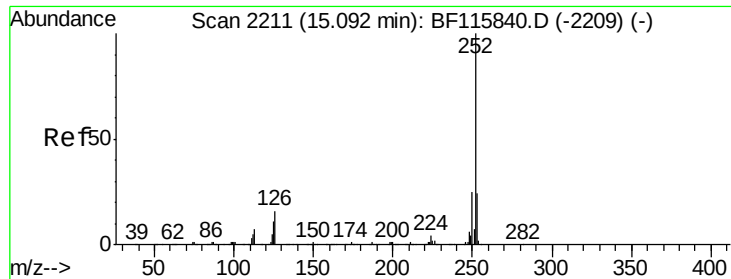
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.4	29.2
265	22.6	17.5	26.3



#88
Benzo(b)fluoranthene
Concen: 21.321 ng
RT: 15.07 min Scan# 2207
Delta R.T. 0.00 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	11.8	7.4	11.0

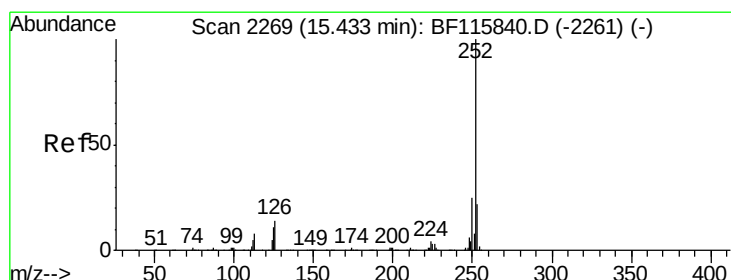
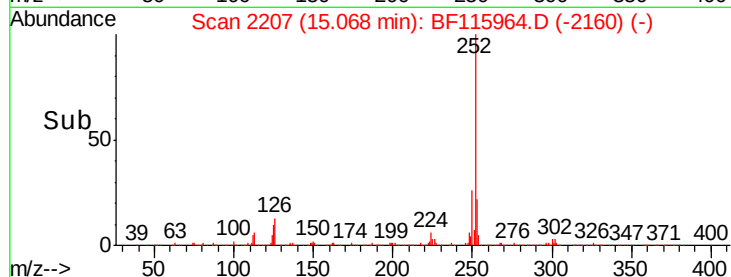
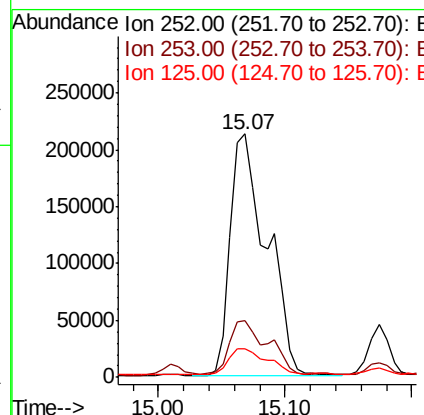
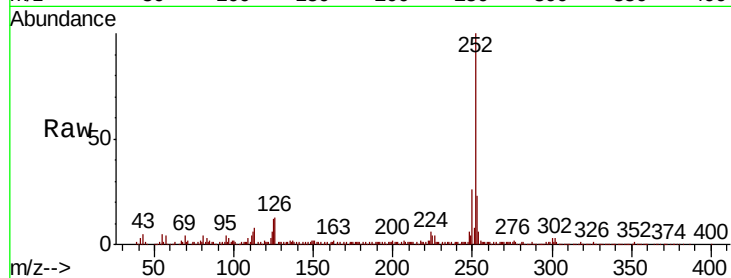




#89
Benzo(k)fluoranthene
Concen: 21.890 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

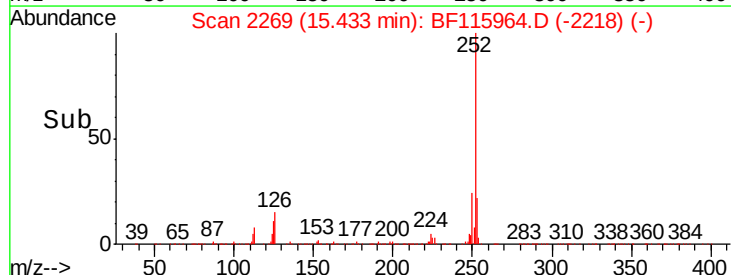
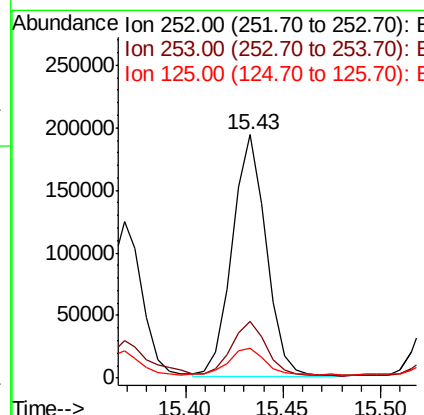
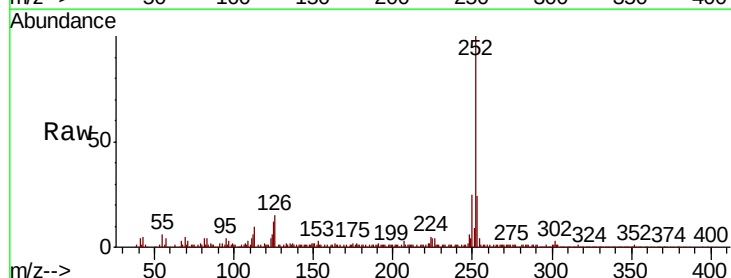
Instrument :
BNA_F
ClientSampleId :
PL-02-080119

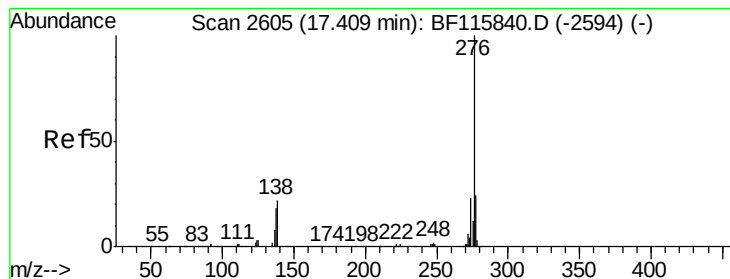
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	11.8	8.9	13.3



#90
Benzo(a)pyrene
Concen: 12.971 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF115964.D
Acq: 2 Aug 2019 23:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	12.4	8.8	13.2





#92

Benzo(g,h,i)perylene

Concen: 6.098 ng

RT: 17.42 min Scan# 2607

Delta R.T. 0.01 min

Lab File: BF115964.D

Acq: 2 Aug 2019 23:11

Instrument :

BNA_F

ClientSampleId :

PL-02-080119

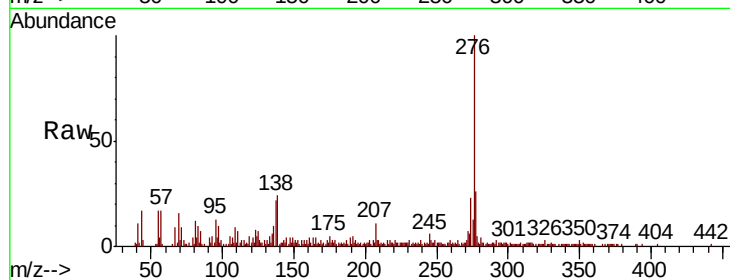
Tgt Ion: 276 Resp: 92884

Ion Ratio Lower Upper

276 100

277 26.4 19.5 29.3

138 23.8 17.8 26.8



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

