

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032019\
 Data File : BF113173.D
 Acq On : 20 Mar 2019 16:10
 Operator : JU/SJ
 Sample : K1971-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 21 12:21:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 21 12:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	107083	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	406984	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	221892	20.00	ng	0.00
64) Phenanthrene-d10	11.23	188	470128	20.00	ng	0.00
76) Chrysene-d12	13.87	240	258547	20.00	ng	0.00
87) Perylene-d12	15.30	264	241244	20.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	600860	87.28	ng	0.00
7) Phenol-d6	6.37	99	802058	92.75	ng	0.00
23) Nitrobenzene-d5	7.28	82	483138	71.03	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	287418	122.01	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	907030	63.32	ng	0.00
79) Terphenyl-d14	12.82	244	897415	67.29	ng	0.00

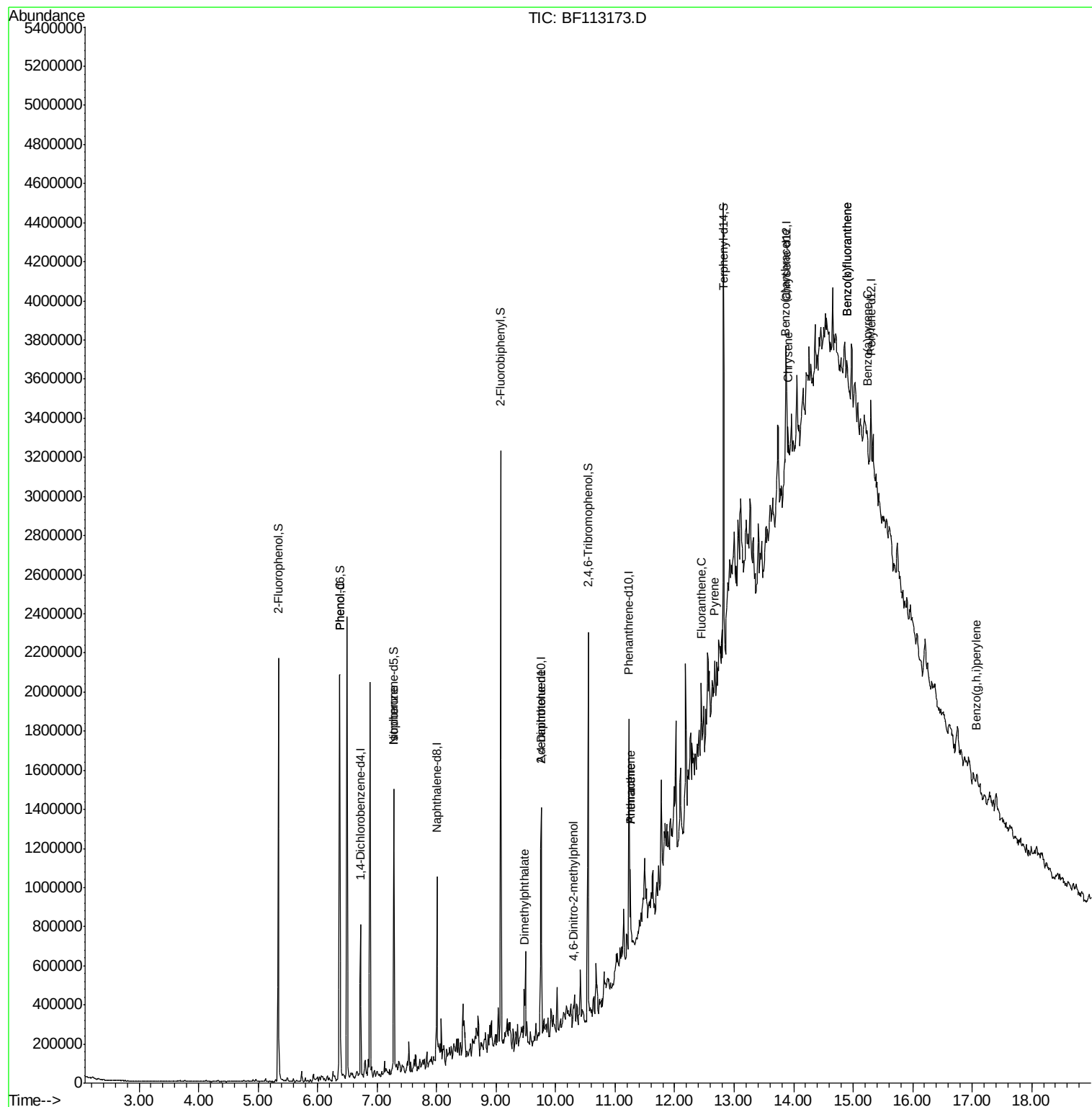
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.38	94	59475	5.894	ng	# 77
25) Isophorone	7.28	82	467269	31.890	ng	# 65
50) Dimethylphthalate	9.47	163	89093	5.445	ng	# 97
57) 2,4-Dinitrotoluene	9.76	165	28460	6.720	ng	# 23
65) 4,6-Dinitro-2-methylphenol	10.30	198	117	4.667	ng	# 1
71) Phenanthrene	11.26	178	107573	4.599	ng	97
72) Anthracene	11.26	178	107573	4.393	ng	97
75) Fluoranthene	12.45	202	92066	3.674	ng	96
78) Pyrene	12.67	202	119097	5.464	ng	97
81) Benzo(a)anthracene	13.86	228	41030	2.290	ng	# 85
83) Chrysene	13.90	228	57544	3.278	ng	# 81
88) Benzo(b)fluoranthene	14.90	252	76325	4.891	ng	# 6
89) Benzo(k)fluoranthene	14.90	252	76325	5.400	ng	# 4
90) Benzo(a)pyrene	15.24	252	38988	2.825	ng	# 1
92) Benzo(a,h,i)perylene	17.08	276	30132	2.548	ng	# 64

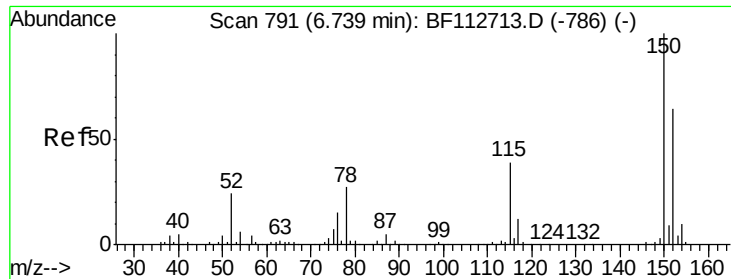
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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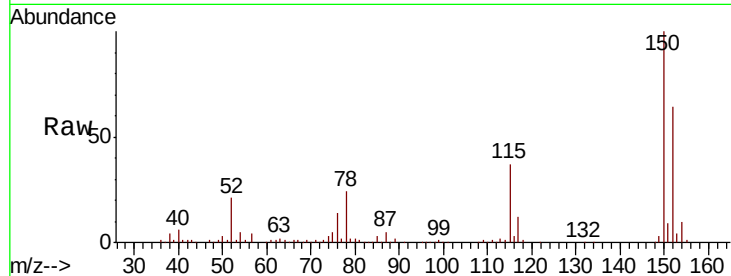


#1

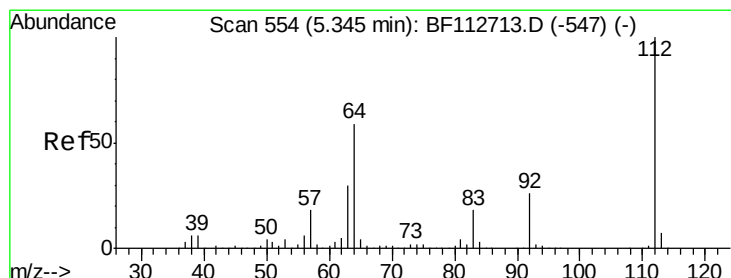
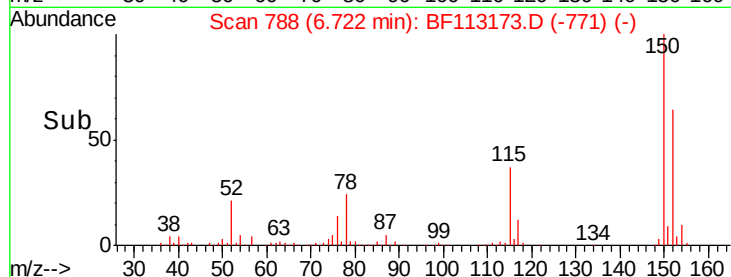
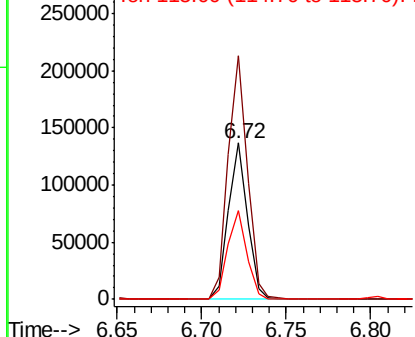
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.00 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 107083
Ion Ratio Lower Upper
152 100
150 156.0 123.0 184.6
115 57.2 45.9 68.9



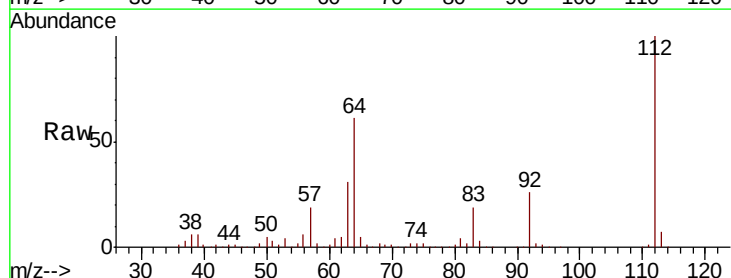
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



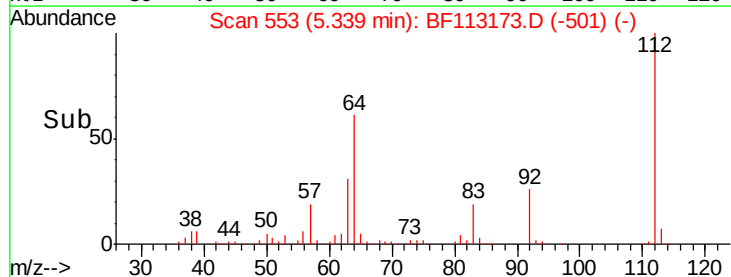
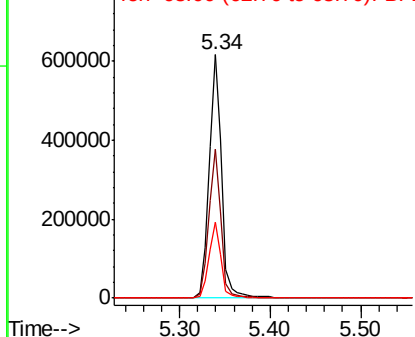
#5

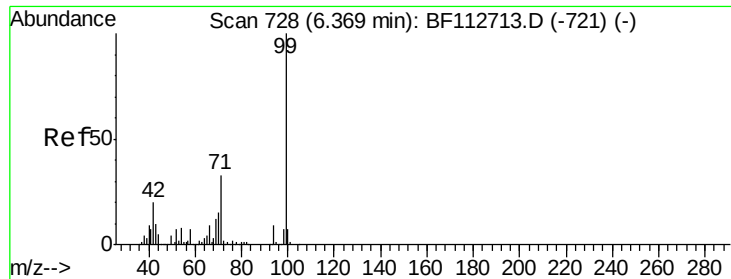
2-Fluorophenol
Concen: 87.284 ng
RT: 5.34 min Scan# 553
Delta R.T. 0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion:112 Resp: 600860
Ion Ratio Lower Upper
112 100
64 61.1 49.3 73.9
63 31.3 25.4 38.2



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: 92.752 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Instrument :

BNA_F

ClientSampleId :

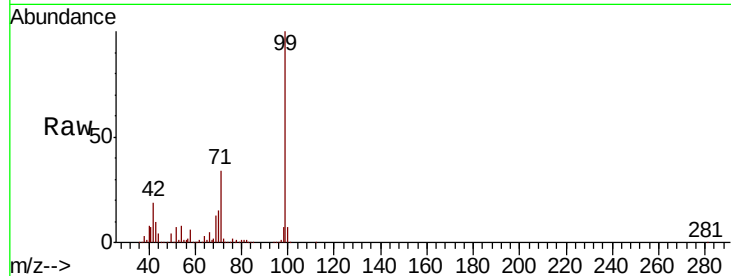
Tot Ion: 99 Resp: 802058

Ion Ratio Lower Upper

99 100

42 19.5 15.2 22.8

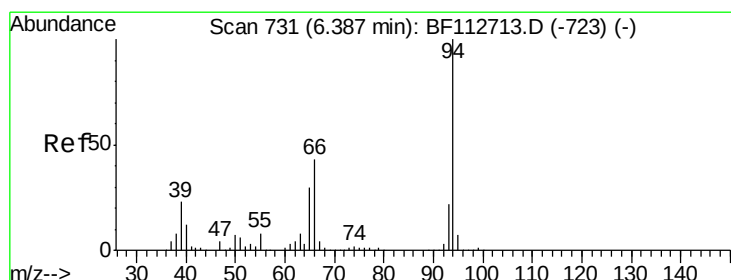
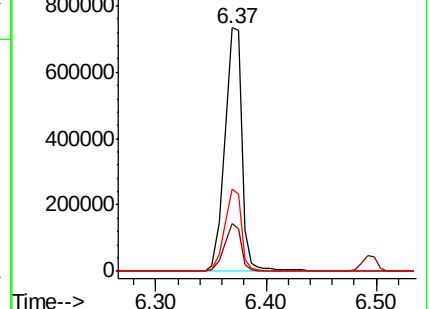
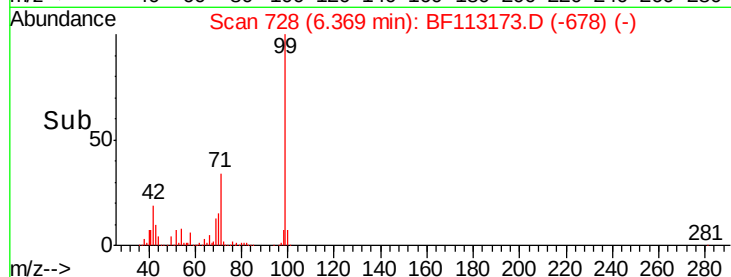
71 33.8 25.7 38.5



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 5.894 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

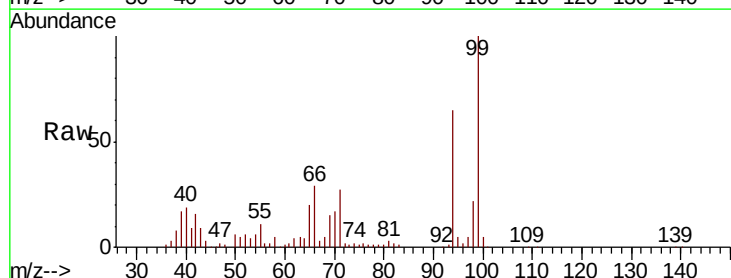
Tgt Ion: 94 Resp: 59475

Ion Ratio Lower Upper

94 100

65 30.1 21.7 61.7

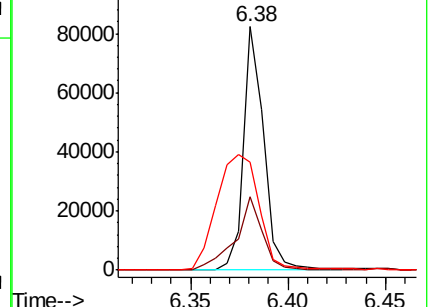
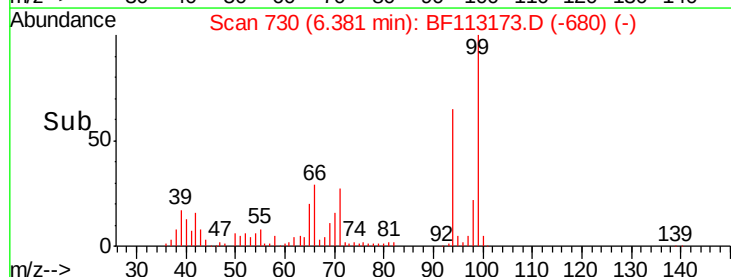
66 44.2 44.4 84.4#

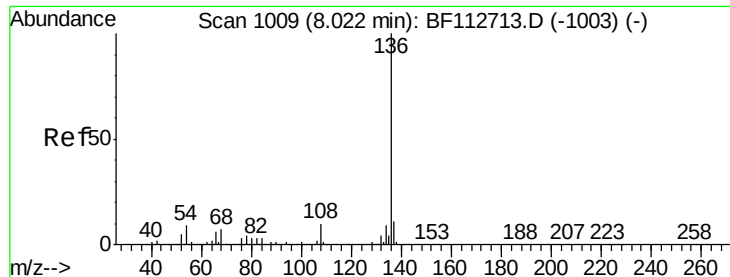


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

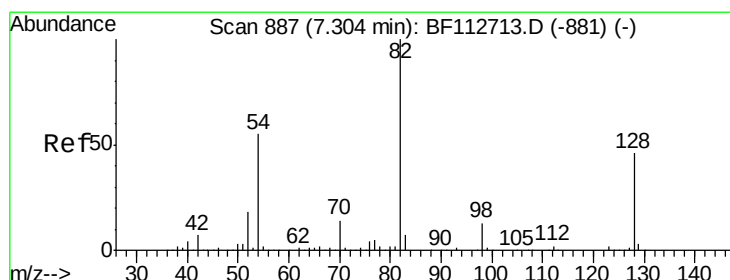
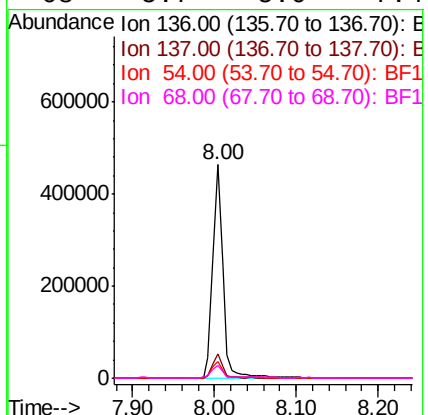
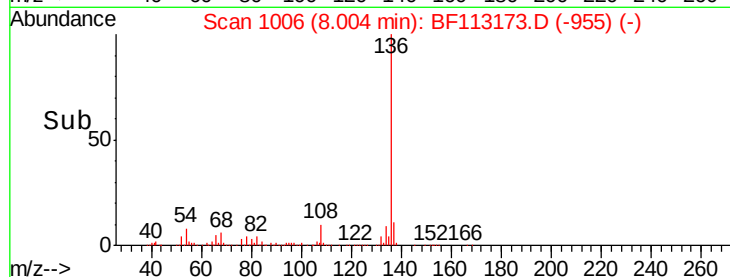
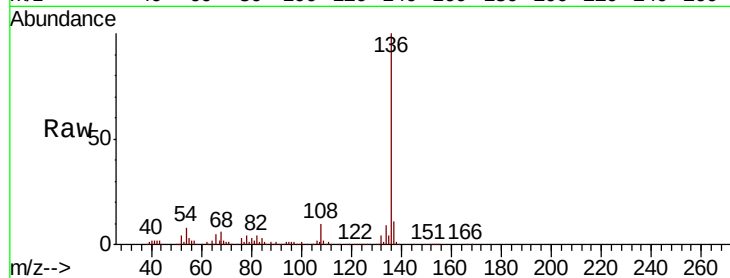




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1006
Delta R.T. -0.00 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

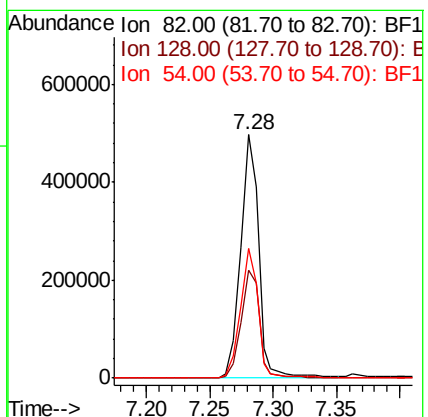
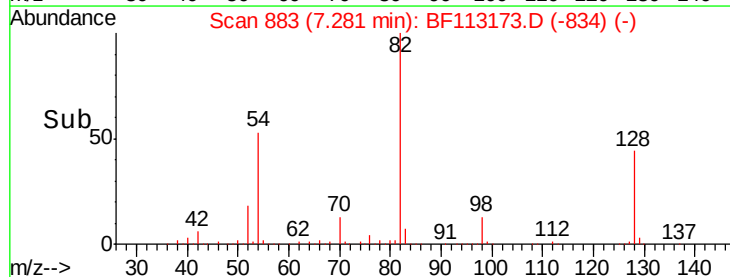
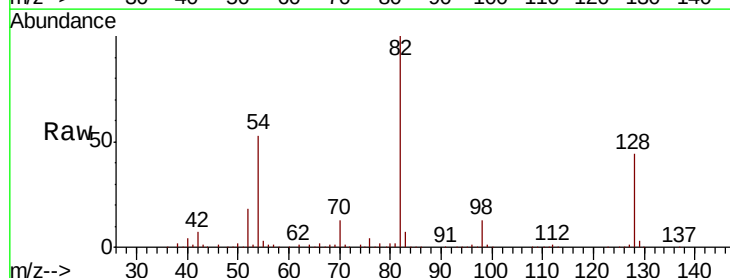
Instrument :
BNA_F
ClientSampleId :

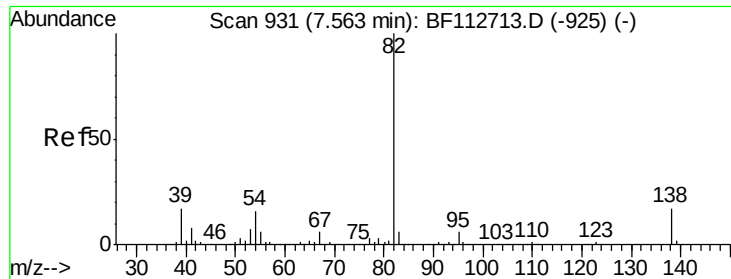
Tot Ion:136	Resp:	406984
Ion Ratio	Lower	Upper
136	100	
137	11.1	8.9 13.3
54	8.0	7.0 10.6
68	5.7	5.0 7.4



#23
Nitrobenzene-d5
Concen: 71.035 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion: 82	Resp:	483138
Ion Ratio	Lower	Upper
82	100	
128	44.4	37.9 56.9
54	53.3	41.2 61.8





#25

Isophorone

Concen: 31.890 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.27 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Instrument :

BNA_F

ClientSampleId :

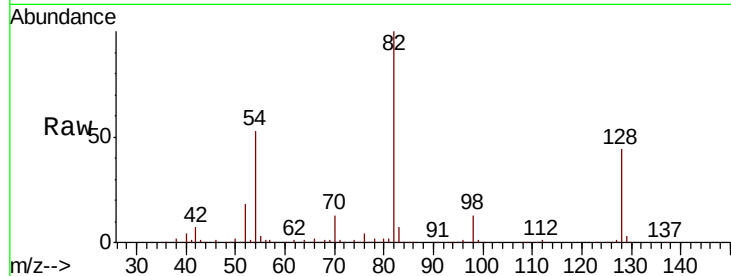
Tot Ion: 82 Resp: 467269

Ion Ratio Lower Upper

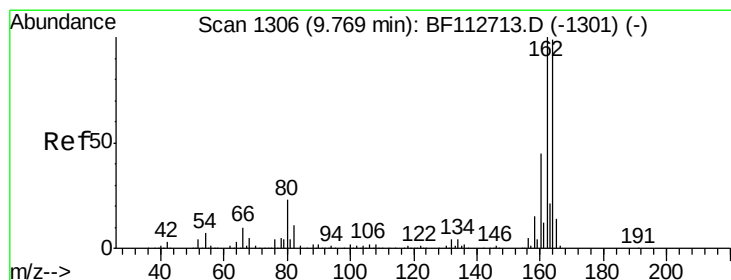
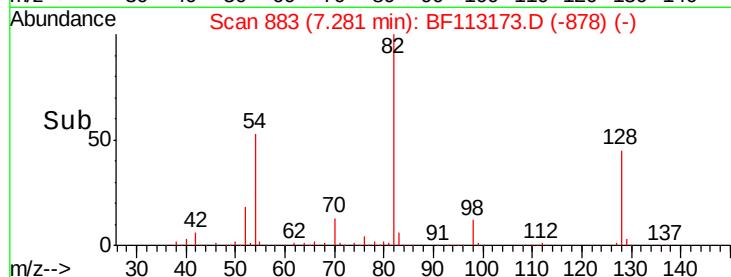
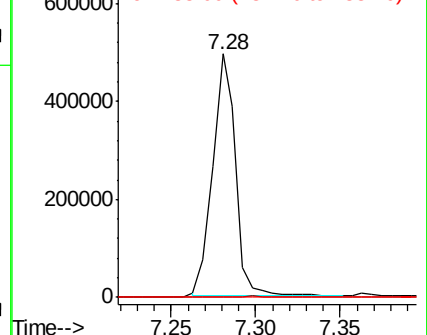
82 100

95 0.3 5.6 8.4#

138 0.0 14.5 21.7#



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: 9.76 min Scan# 1304

Delta R.T. -0.00 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

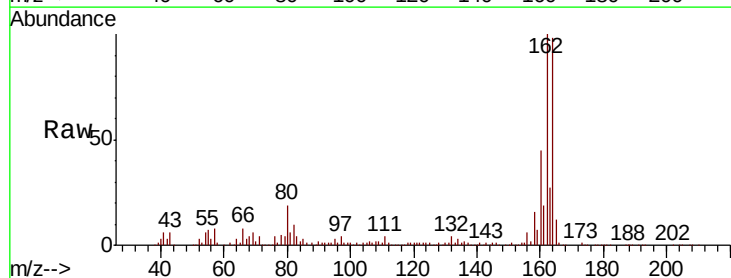
Tgt Ion: 164 Resp: 221892

Ion Ratio Lower Upper

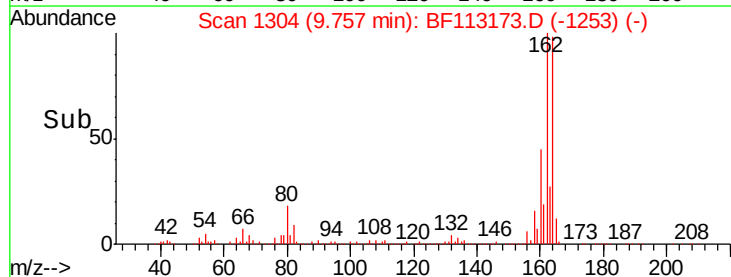
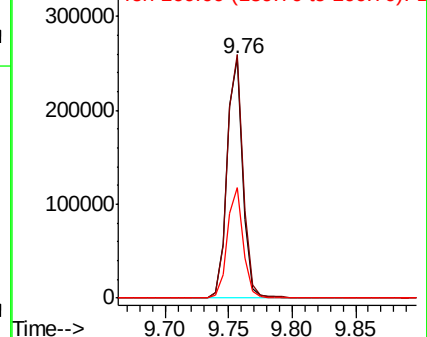
164 100

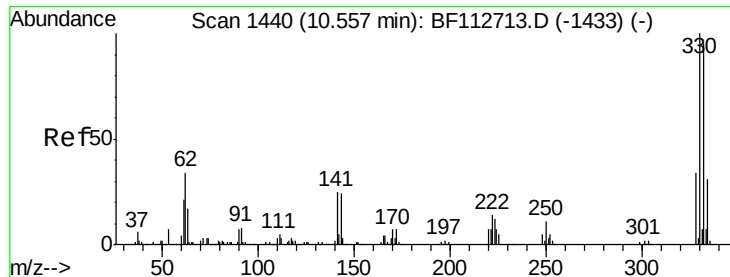
162 101.8 80.8 121.2

160 46.3 36.2 54.2



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

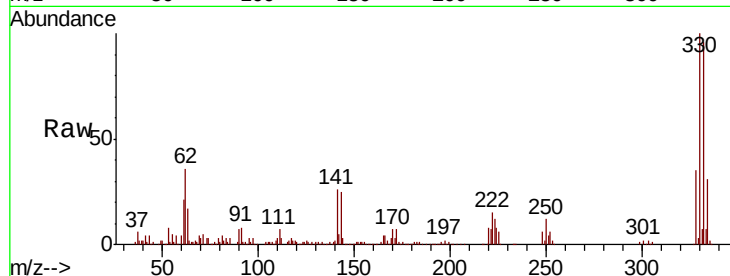




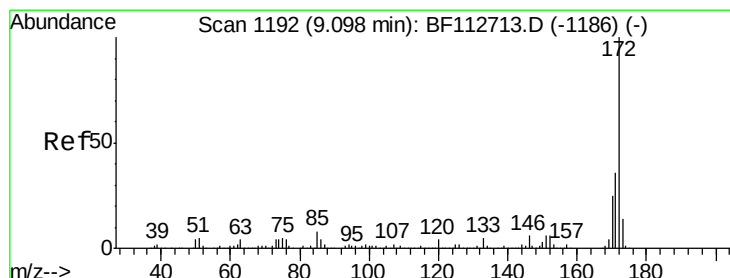
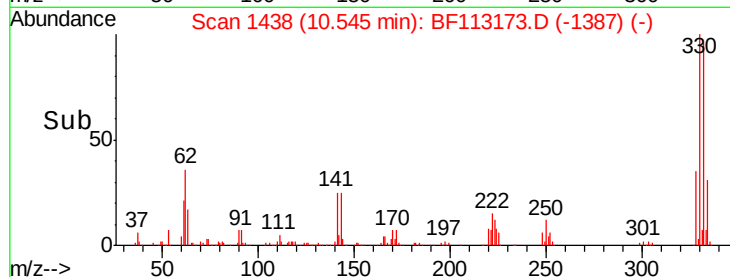
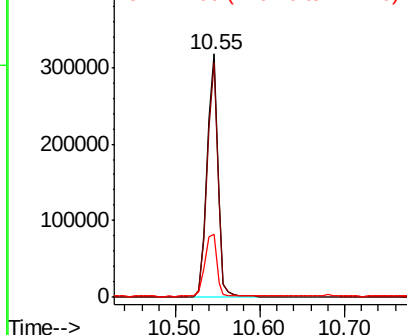
#42
 2,4,6-Tribromophenol
 Concen: 122.012 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: BF113173.D
 Acq: 20 Mar 2019 16:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 287418
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.3 114.5
 141 28.8 22.3 33.5

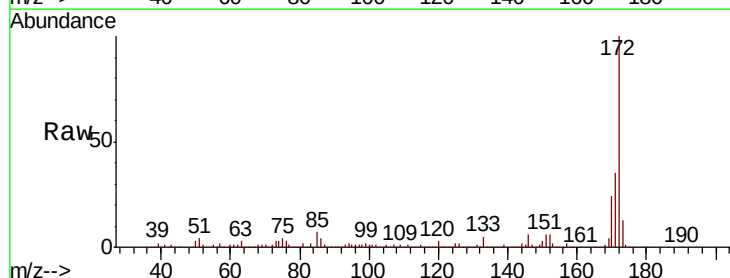


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

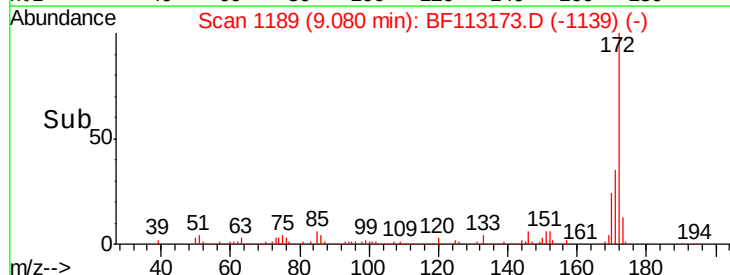
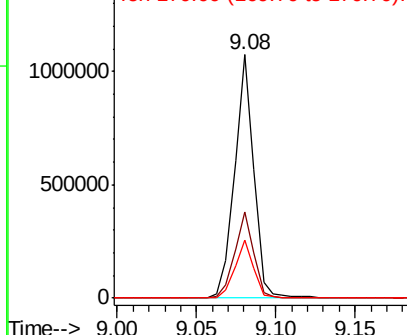


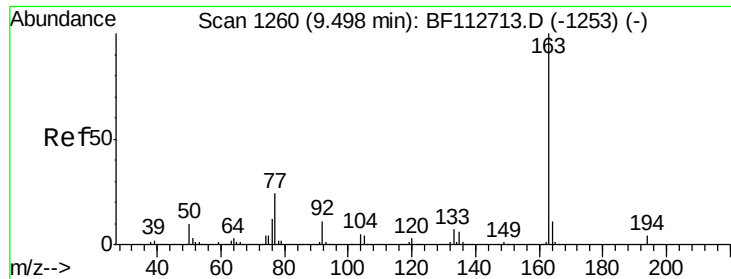
#45
 2-Fluorobiphenyl
 Concen: 63.322 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113173.D
 Acq: 20 Mar 2019 16:10

Tgt Ion:172 Resp: 907030
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.0 43.4
 170 23.9 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

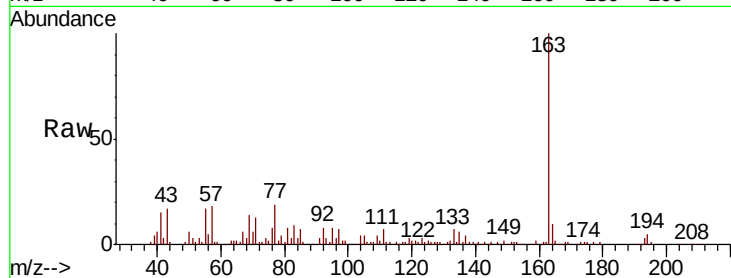




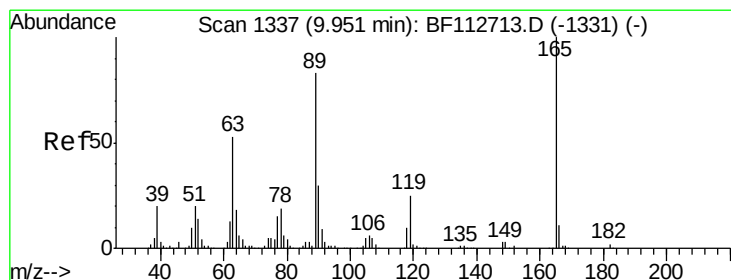
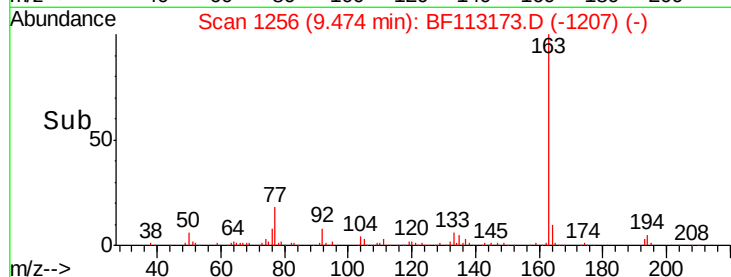
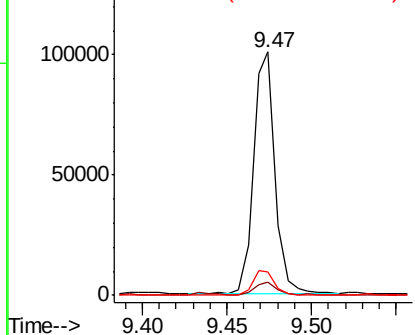
#50
Dimethylphthalate
Concen: 5.445 ng
RT: 9.47 min Scan# 1256
Delta R.T. -0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	5.2	3.3	4.9#
164	9.9	8.6	12.8



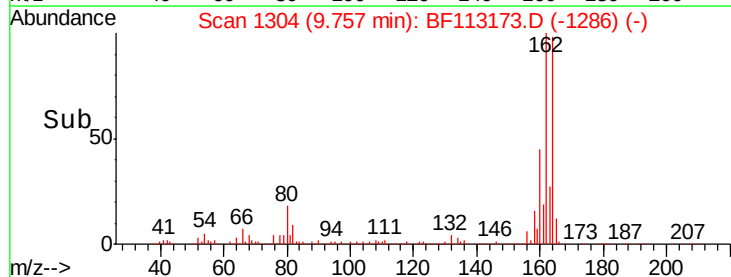
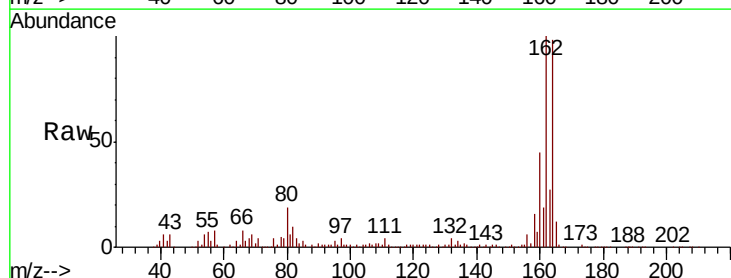
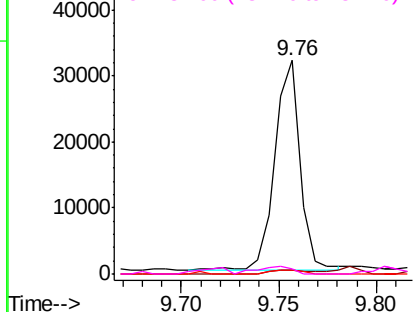
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

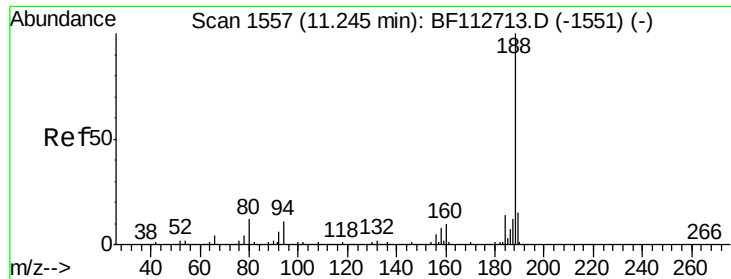


#57
2,4-Dinitrotoluene
Concen: 6.720 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.19 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	37.9	56.9#
89	1.6	58.5	87.7#
182	2.4	2.2	3.2

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

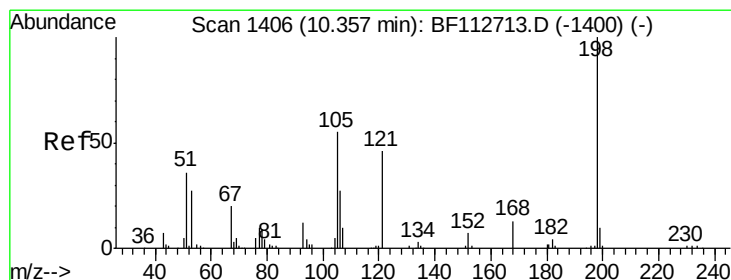
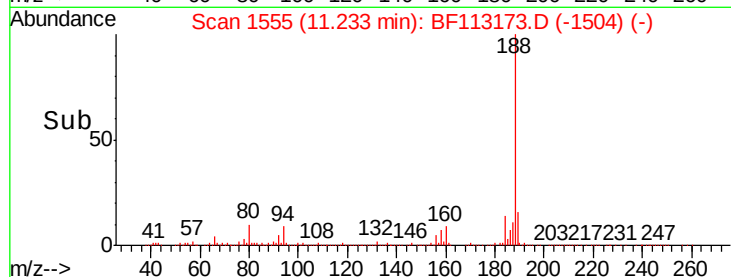
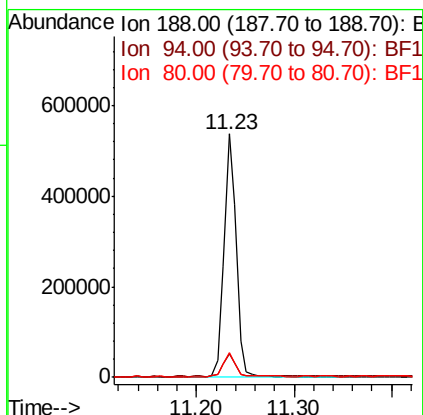
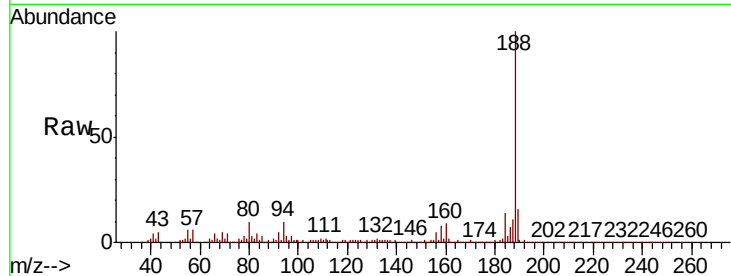




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

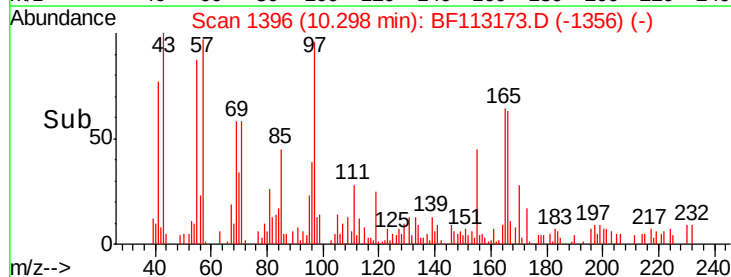
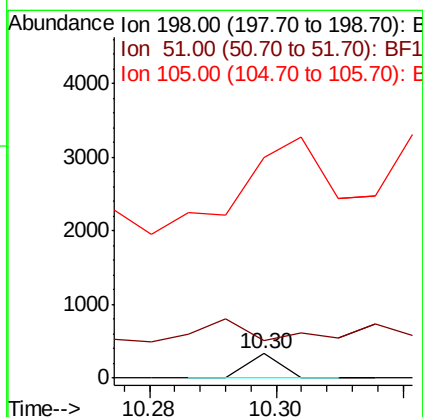
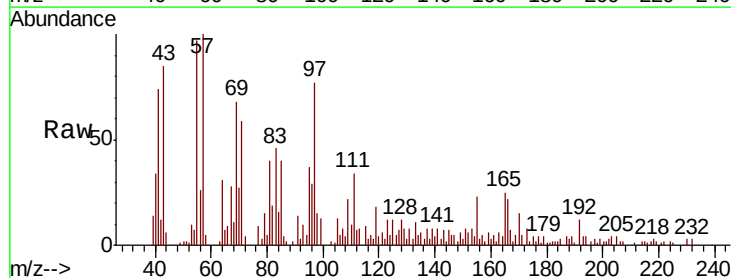
Instrument :
BNA_F
ClientSampleId :

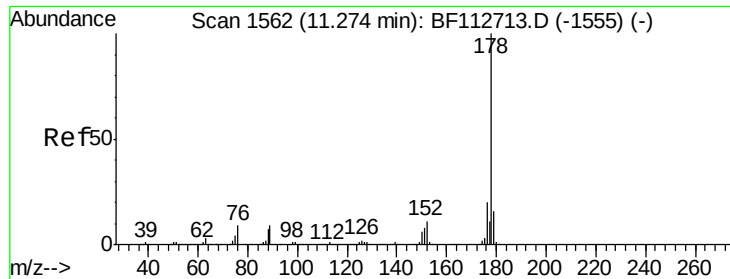
Tot Ion:188 Resp: 470128
Ion Ratio Lower Upper
188 100
94 9.7 7.4 11.2
80 10.3 7.9 11.9



#65
4,6-Dinitro-2-methylphenol
Concen: 4.667 ng
RT: 10.30 min Scan# 1396
Delta R.T. -0.06 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion:198 Resp: 117
Ion Ratio Lower Upper
198 100
51 151.2 25.5 65.5#
105 900.9 23.2 63.2#

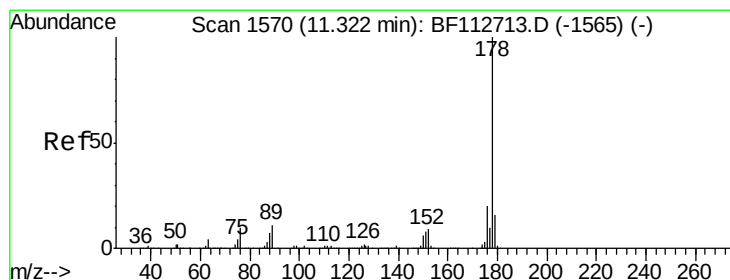
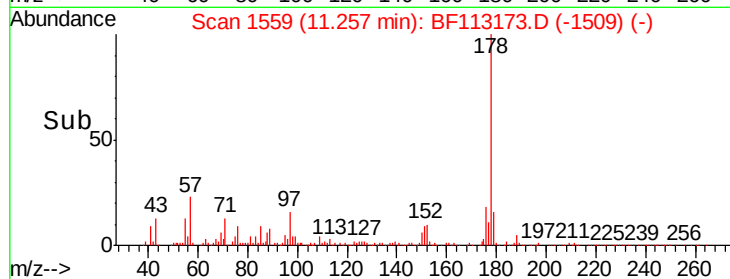
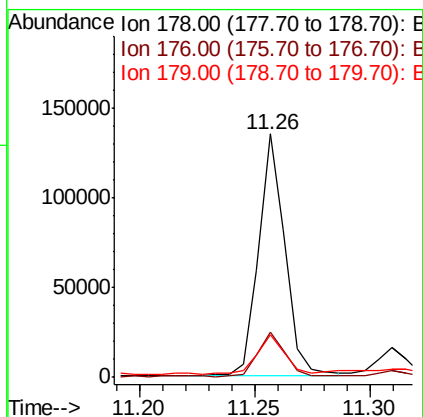
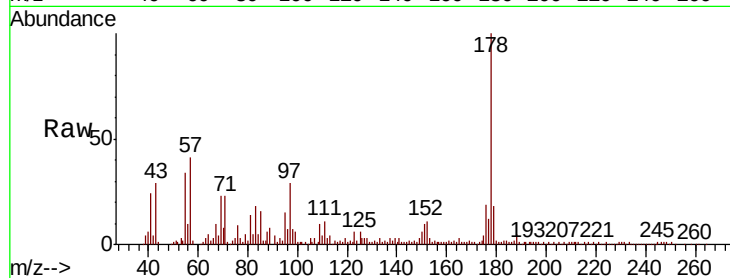




#71
Phenanthrene
Concen: 4.599 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

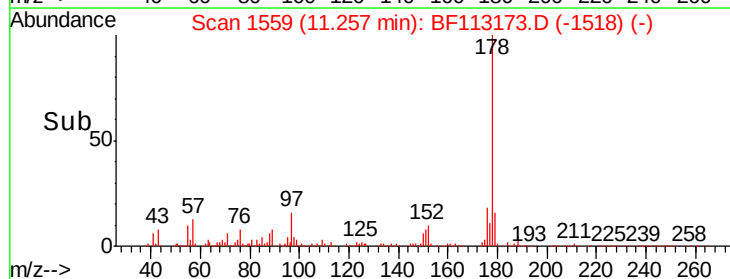
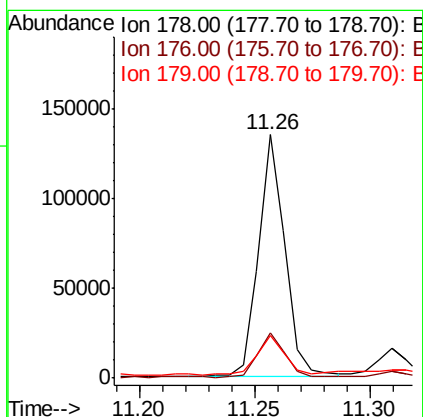
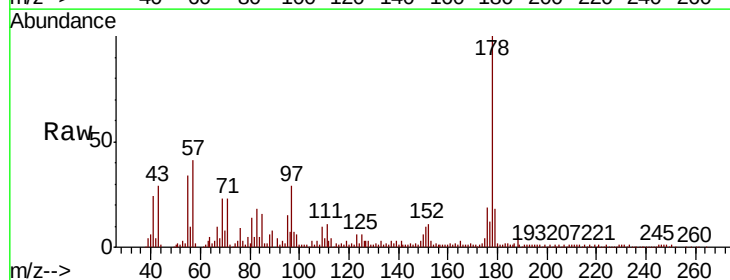
Instrument :
BNA_F
ClientSampleId :

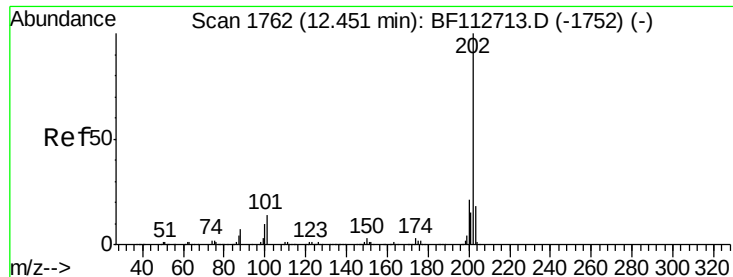
Tot Ion:178 Resp: 107573
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.4
179 17.5 13.0 19.4



#72
Anthracene
Concen: 4.393 ng
RT: 11.26 min Scan# 1559
Delta R.T. -0.06 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion:178 Resp: 107573
Ion Ratio Lower Upper
178 100
176 18.6 15.7 23.5
179 17.5 12.4 18.6





#75

Fluoranthene

Concen: 3.674 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.01 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Instrument :

BNA_F

ClientSampled :

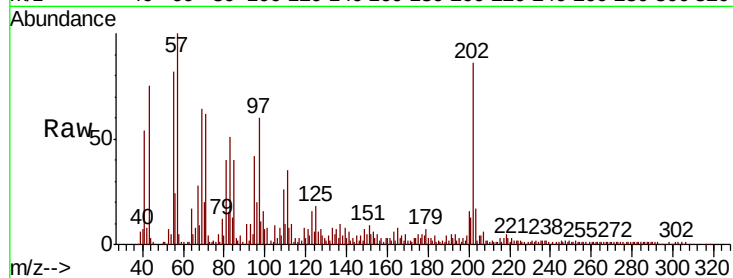
Tot Ion:202 Resp: 92066

Ion Ratio Lower Upper

202 100

101 9.4 0.0 31.9

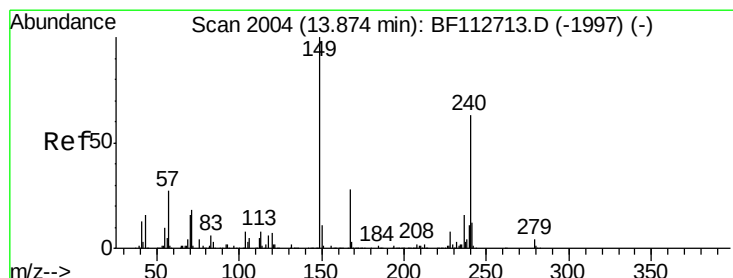
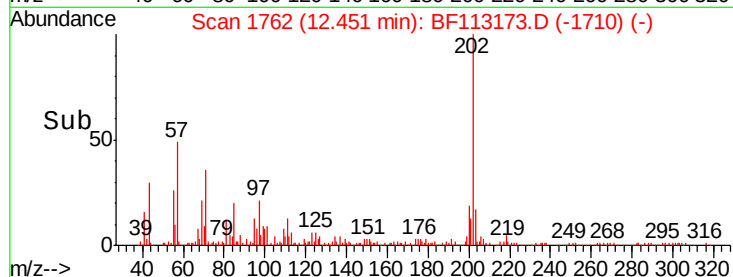
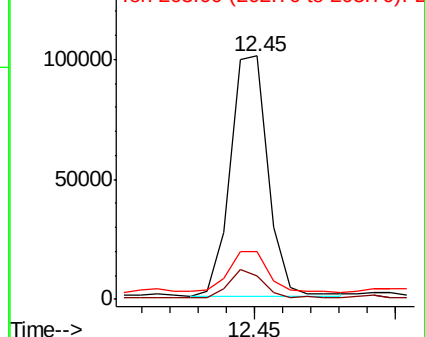
203 19.5 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

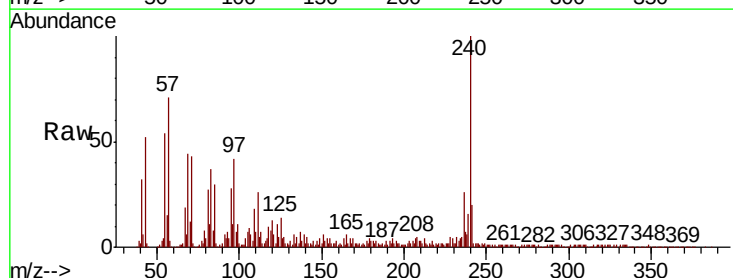
Tgt Ion:240 Resp: 258547

Ion Ratio Lower Upper

240 100

120 12.9 8.6 12.8#

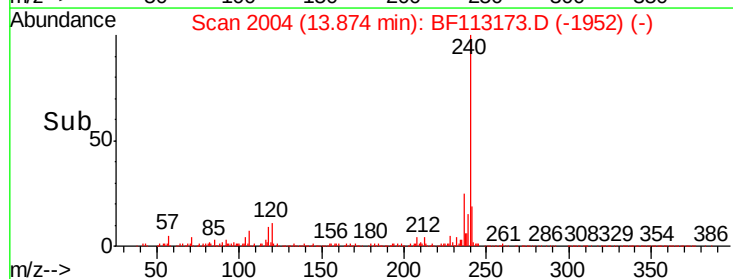
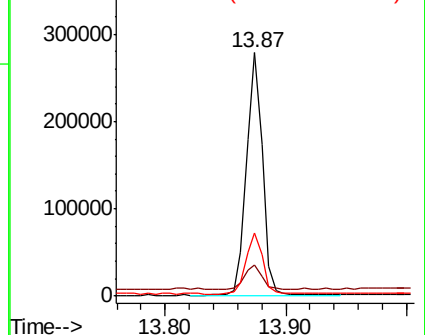
236 26.1 21.2 31.8

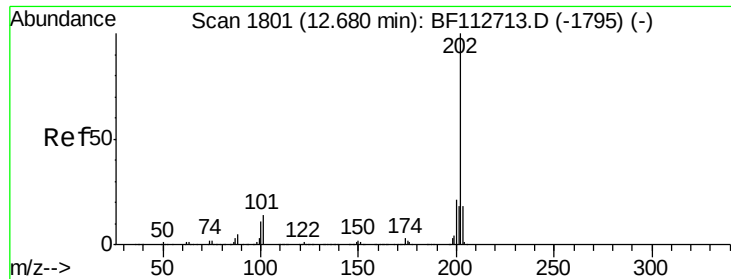


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

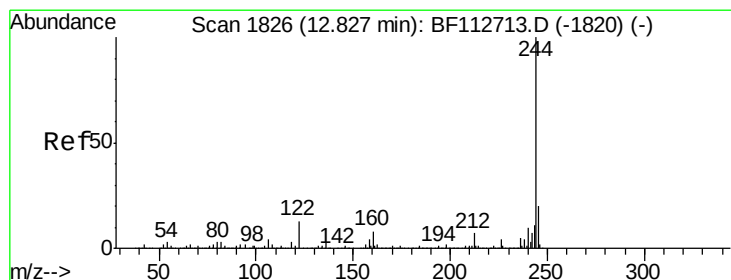
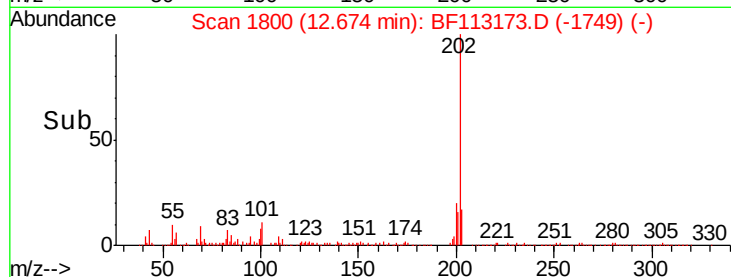
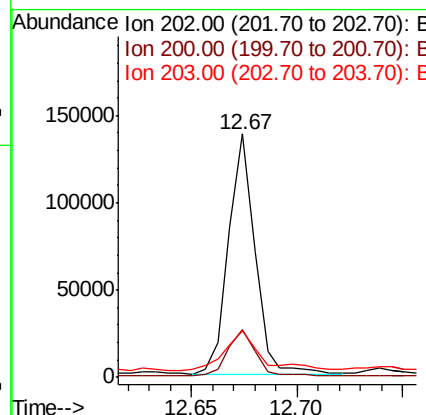
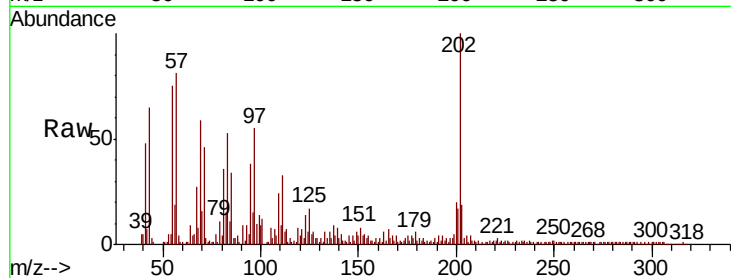




#78
Pvrene
Concen: 5.464 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

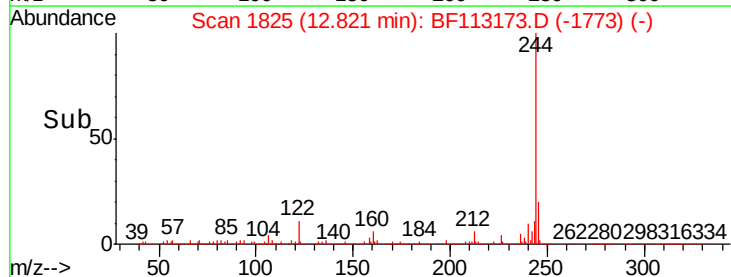
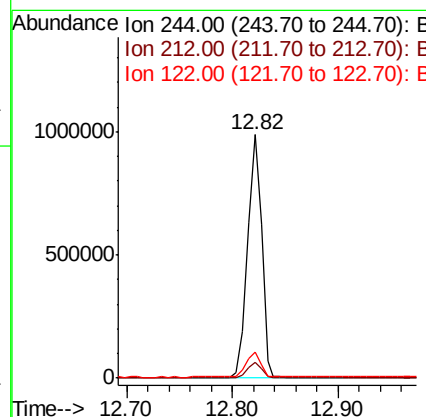
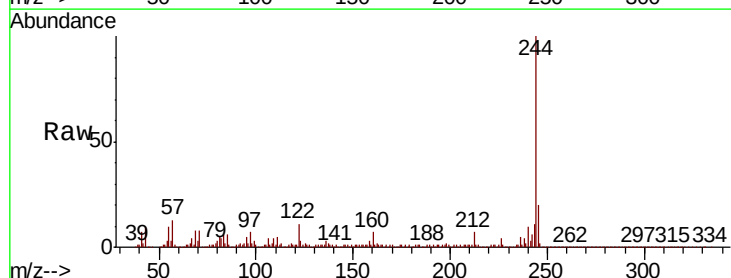
Instrument :
BNA_F
ClientSampleId :

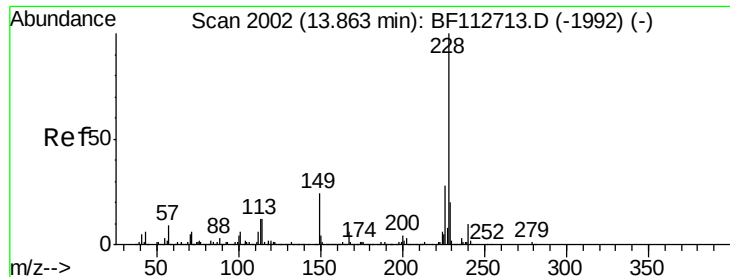
Tot Ion	Ratio	Lower	Upper
202	100		
200	19.8	17.1	25.7
203	19.2	14.6	21.8



#79
Terphenyl-d14
Concen: 67.285 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.7	8.5
122	10.9	9.4	14.2





#81

Benzo(a)anthracene

Concen: 2.290 ng

RT: 13.86 min Scan# 2002

Delta R.T. 0.01 min

Lab File: BF113173.D

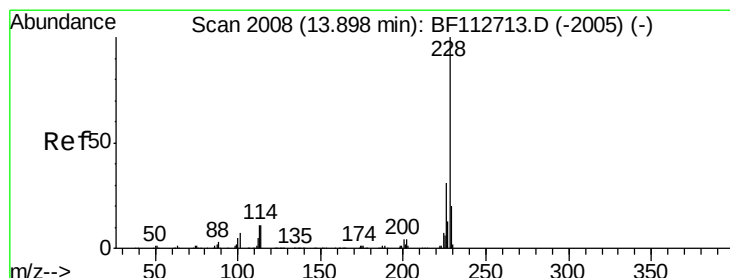
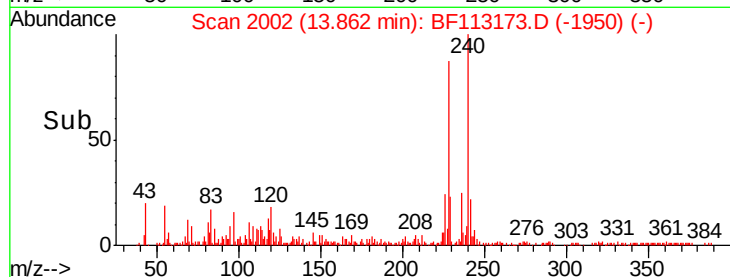
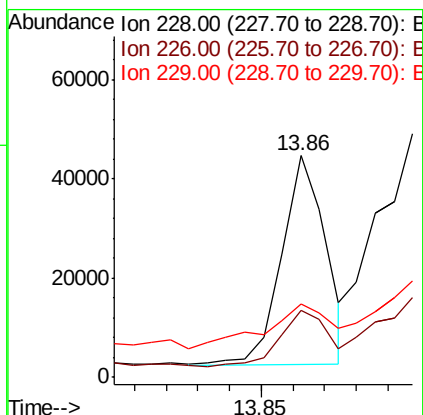
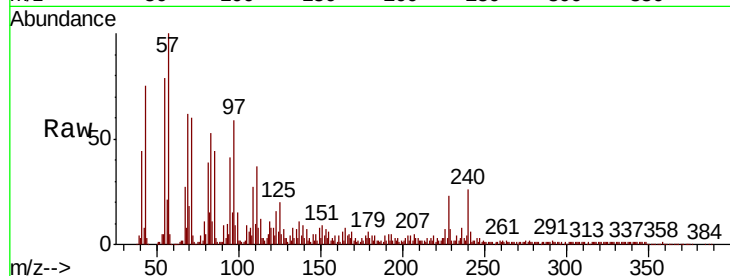
Acq: 20 Mar 2019 16:10

Instrument :

BNA_F

ClientSampleId :

Tot Ion:228	Resp:	41030
Ion Ratio	Lower	Upper
228	100	
226	30.4	22.0 33.0
229	33.0	16.0 24.0#



#83

Chrysene

Concen: 3.278 ng

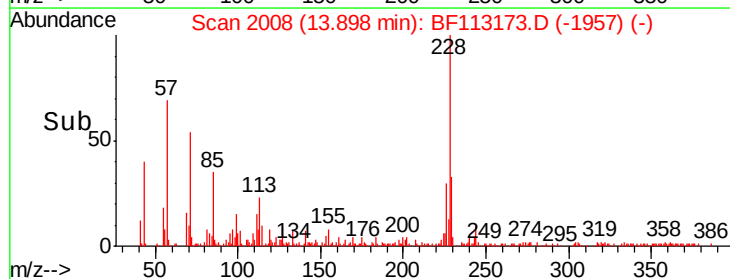
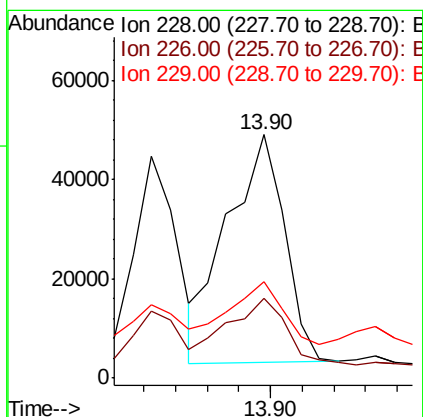
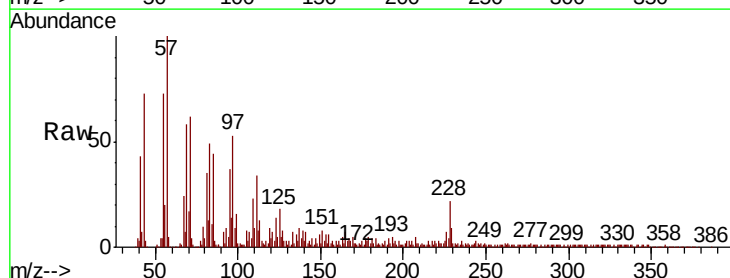
RT: 13.90 min Scan# 2008

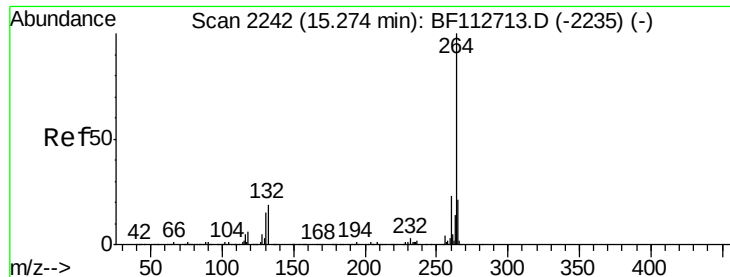
Delta R.T. -0.00 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Tgt Ion:228	Resp:	57544
Ion Ratio	Lower	Upper
228	100	
226	32.7	24.6 36.8
229	39.4	16.2 24.2#





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2246

Delta R.T. 0.03 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

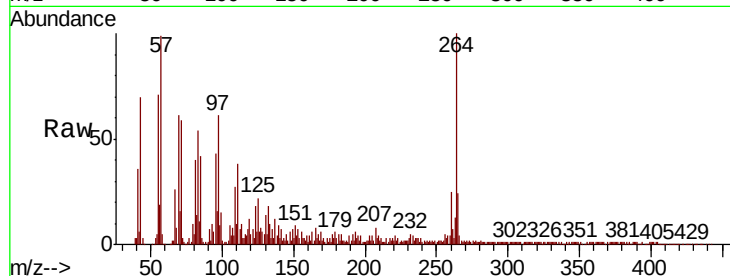
Instrument :

BNA_F

ClientSampled :

Tot Ion:264 Resp: 241244

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	24.1	17.7	26.5

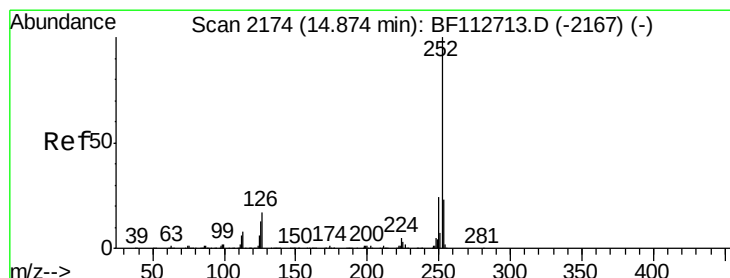
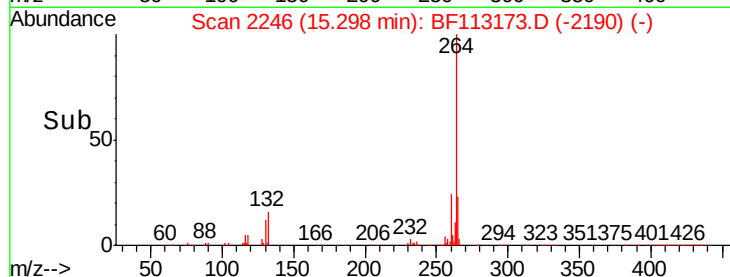
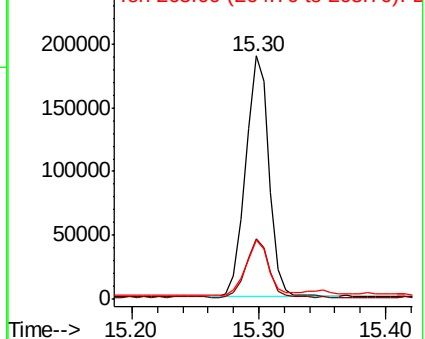


Abundance

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: 4.891 ng

RT: 14.90 min Scan# 2178

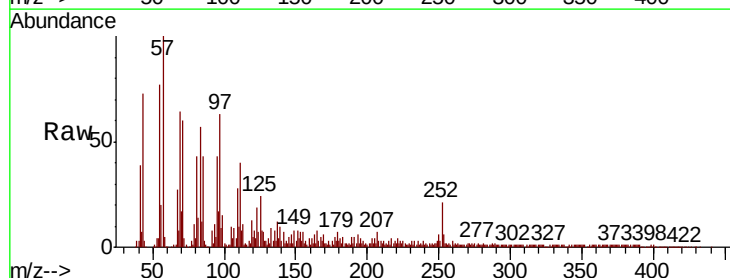
Delta R.T. 0.02 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Tgt Ion:252 Resp: 76325

Ion	Ratio	Lower	Upper
252	100		
253	28.2	18.2	27.4#
125	114.5	8.0	12.0#

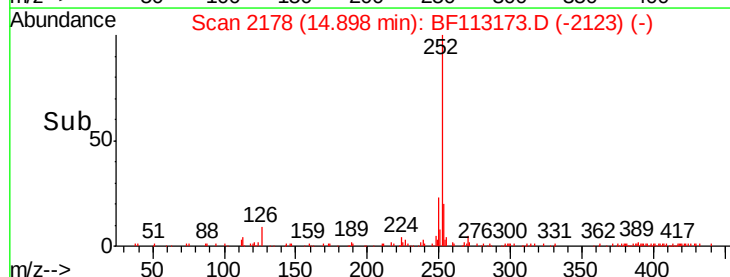
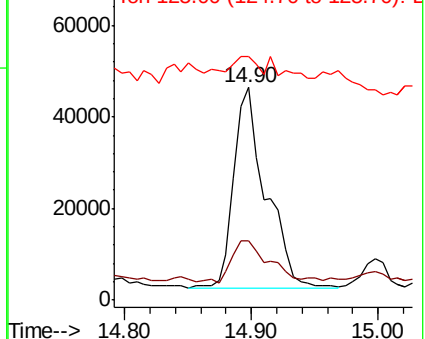


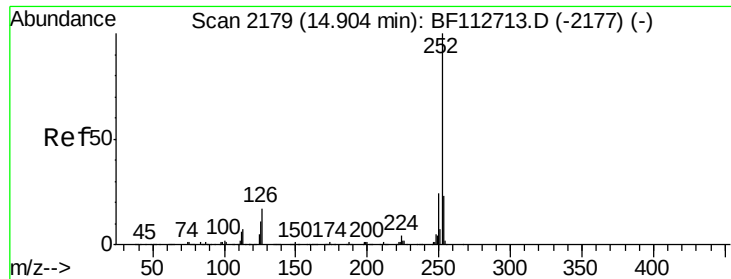
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

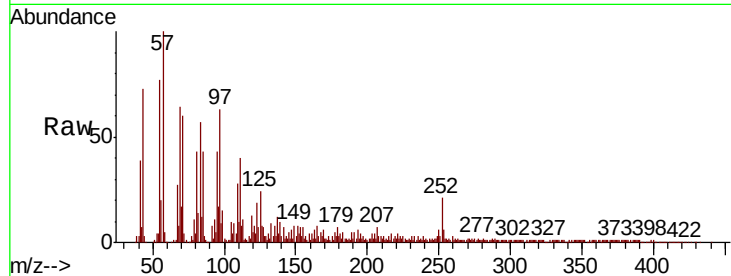




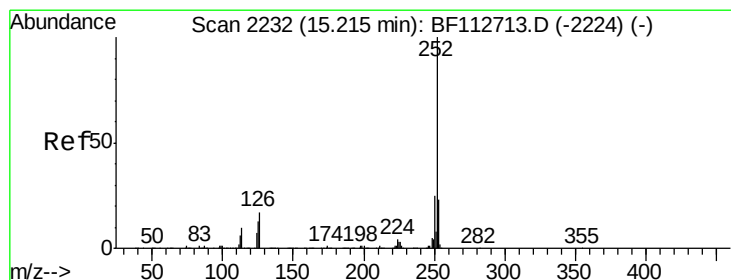
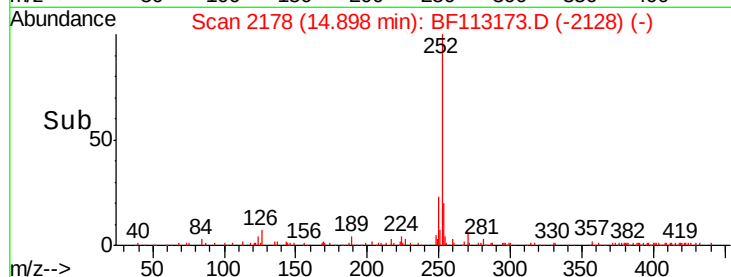
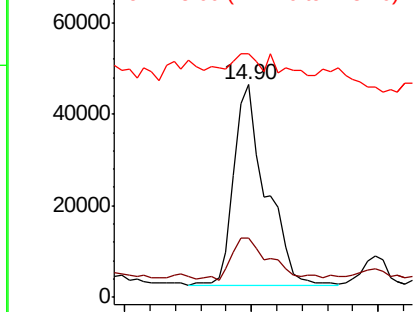
#89
Benzo(k)fluoranthene
Concen: 5.400 ng
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.2	17.9	26.9#
125	114.5	8.2	12.2#

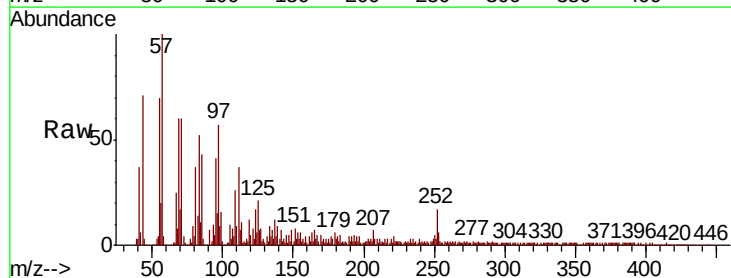


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

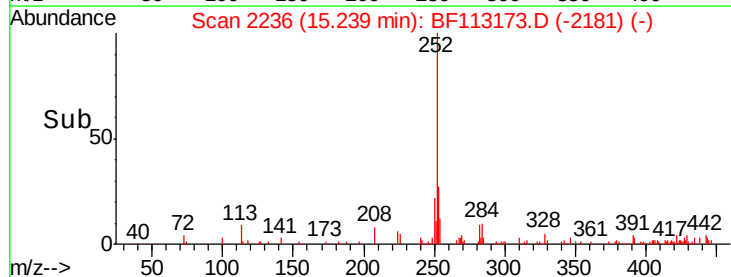
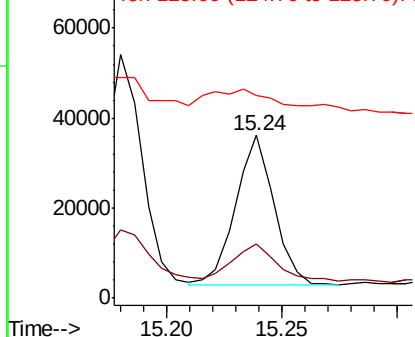


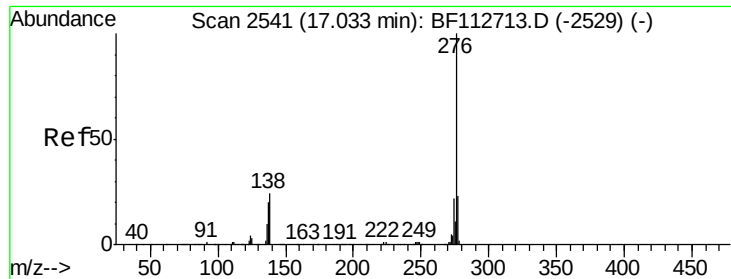
#90
Benzo(a)pyrene
Concen: 2.825 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.02 min
Lab File: BF113173.D
Acq: 20 Mar 2019 16:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.5	17.8	26.6#
125	124.7	9.1	13.7#



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(a,h,i)perylene

Concen: 2.548 ng

RT: 17.08 min Scan# 2549

Delta R.T. 0.04 min

Lab File: BF113173.D

Acq: 20 Mar 2019 16:10

Instrument :

BNA_F

ClientSampleId :

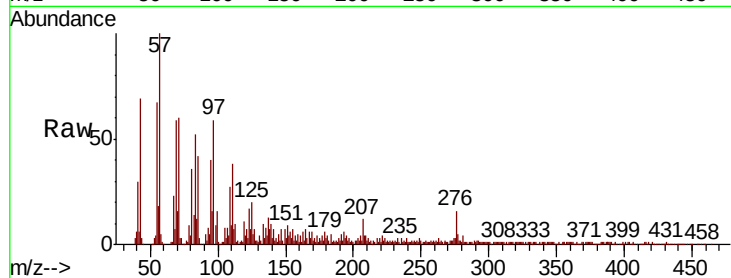
Tot Ion: 276 Resp: 30132

Ion Ratio Lower Upper

276 100

277 31.7 19.4 29.0#

138 48.0 16.2 24.4#



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

