

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083118\
 Data File : BF108705.D
 Acq On : 31 Aug 2018 22:31
 Operator : JU/SJ
 Sample : J4712-11 4X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 01 03:49:52 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 30 15:06:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	40076	20.00	ng	0.00
21) Naphthalene-d8	8.28	136	223078	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	111595	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	249671	20.00	ng	0.00
75) Chrysene-d12	14.20	240	222429	20.00	ng	0.00
86) Perylene-d12	15.76	264	160524	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.74	99	112	0.03	ng	0.09
23) Nitrobenzene-d5	7.66	82	2856	0.65	ng	0.09
41) 2,4,6-Tribromophenol	10.85	330	2554	1.73	ng	0.00
44) 2-Fluorobiphenyl	9.35	172	14838	1.79	ng	0.00
78) Terphenyl-d14	13.12	244	25905	2.26	ng	0.00

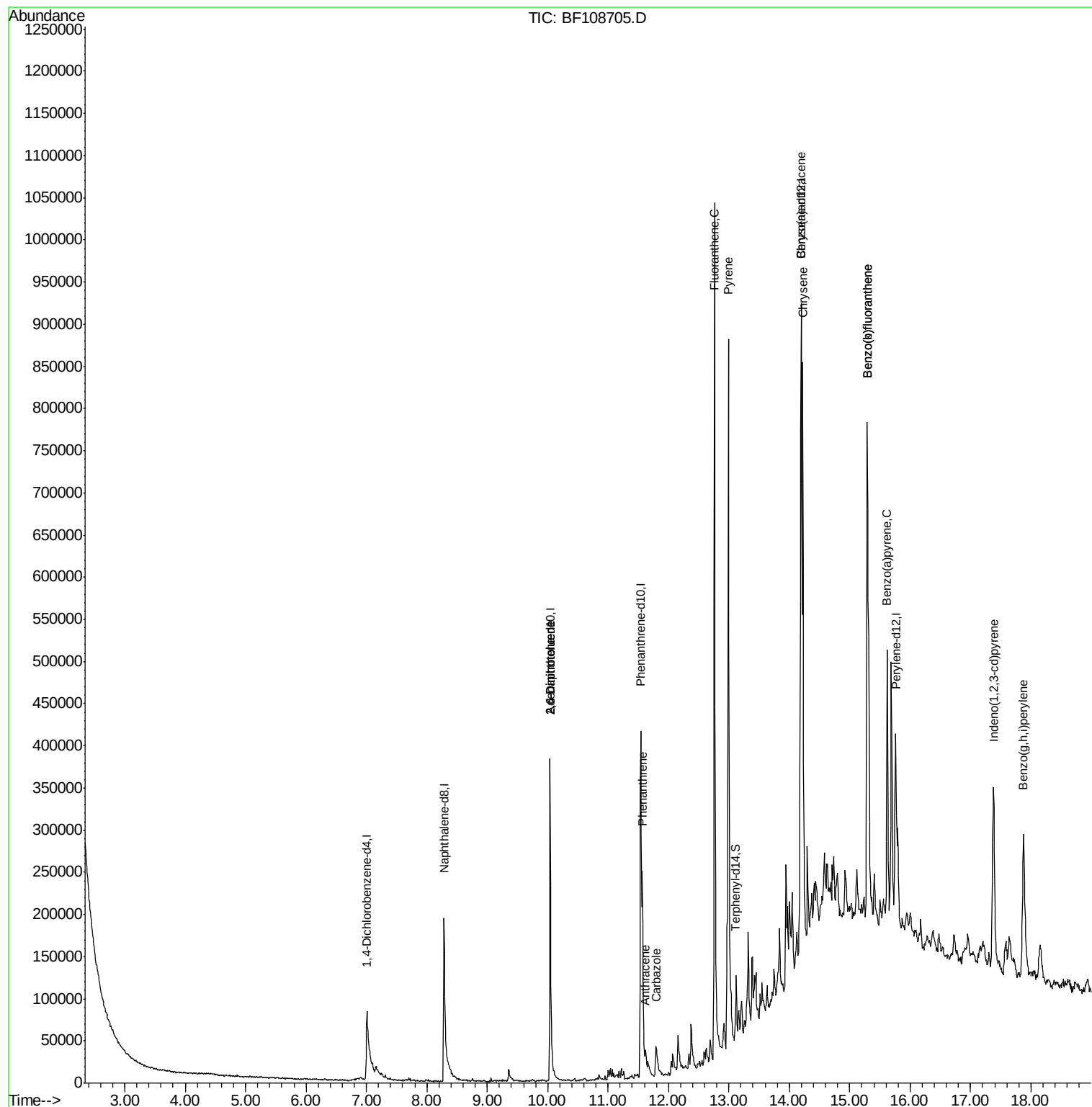
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	10.04	165	13419	6.928	ng	# 24
56) 2,4-Dinitrotoluene	10.04	165	13654	5.324	ng	# 21
70) Phenanthrene	11.57	178	109002	8.649	ng	97
71) Anthracene	11.62	178	28984	2.189	ng	96
72) Carbazole	11.79	167	43059	3.363	ng	98
74) Fluoranthene	12.76	202	570745	40.235	ng	94
77) Pyrene	12.99	202	475695	28.450	ng	100
80) Benzo(a)anthracene	14.19	228	217368	16.030	ng	98
82) Chrysene	14.22	228	345574	26.501	ng	99
85) Indeno(1,2,3-cd)pyrene	17.38	276	196928	21.719	ng	# 87
87) Benzo(b)fluoranthene	15.29	252	570157	57.820	ng	# 96
88) Benzo(k)fluoranthene	15.29	252	570157	58.368	ng	# 96
89) Benzo(a)pyrene	15.62	252	207896	23.330	ng	98
91) Benzo(a,h,i)perylene	17.88	276	204178	29.517	ng	# 86

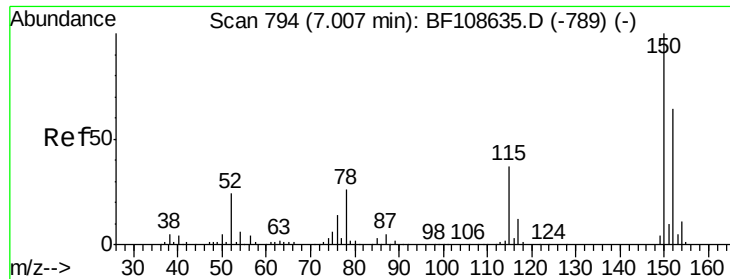
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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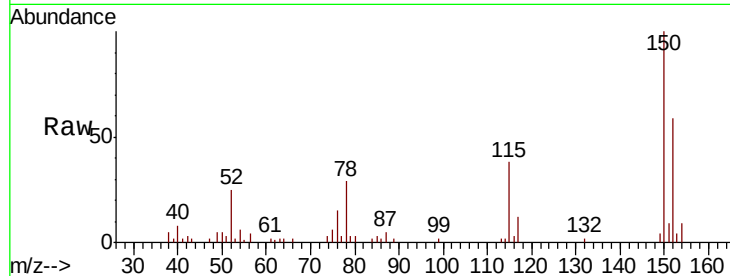


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 794
Delta R.T. -0.00 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	168.9	124.6	186.8
115	64.1	50.1	75.1

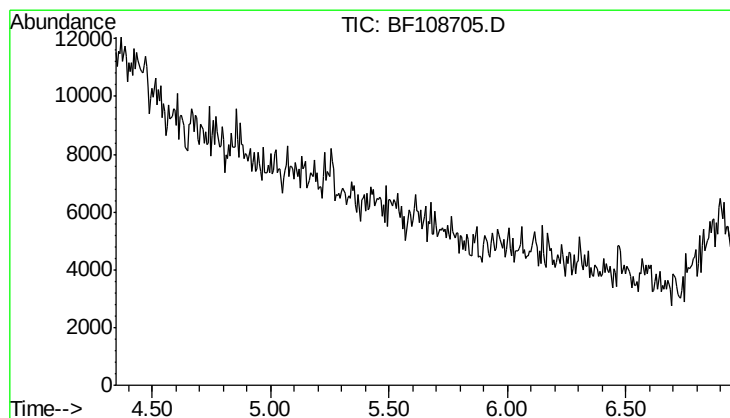
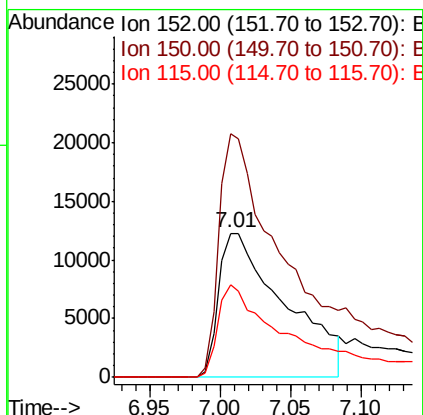
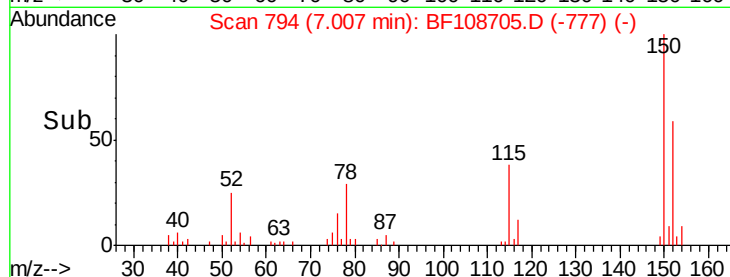


Abundance

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

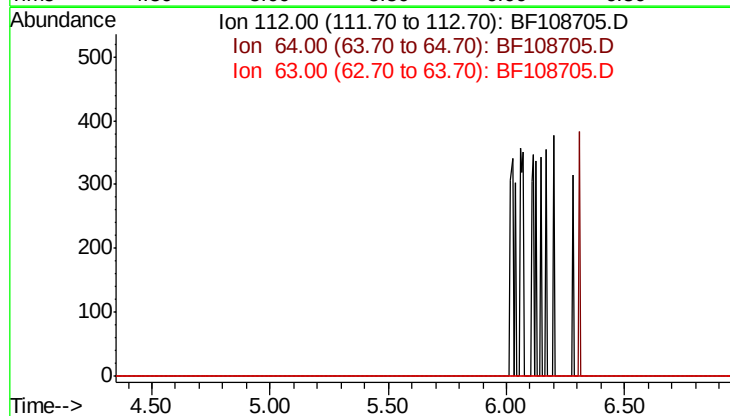


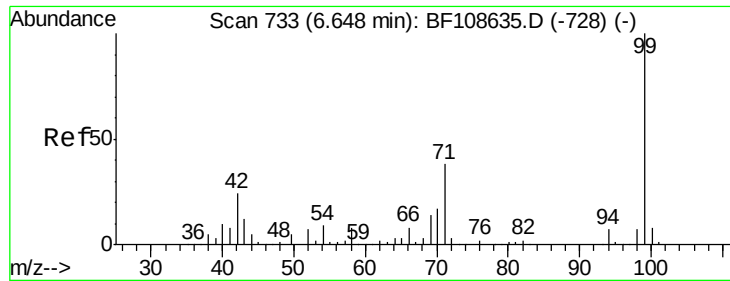
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.65 min

Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Tgt Ion	Sig	Exp Ratio
112	100	
64	59.9	
63	29.6	





#7

Phenol-d6

Concen: 0.034 ng

RT: 6.74 min Scan# 749

Delta R.T. 0.09 min

Lab File: BF108705.D

Acq: 31 Aug 2018 22:31

Instrument :

BNA_F

ClientSampleId :

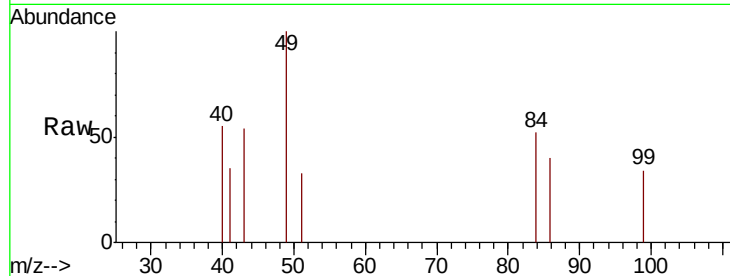
Tot Ion: 99 Resp: 112

Ion Ratio Lower Upper

99 100

42 0.0 14.5 21.7#

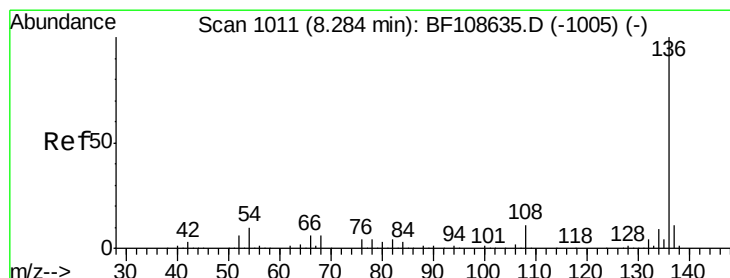
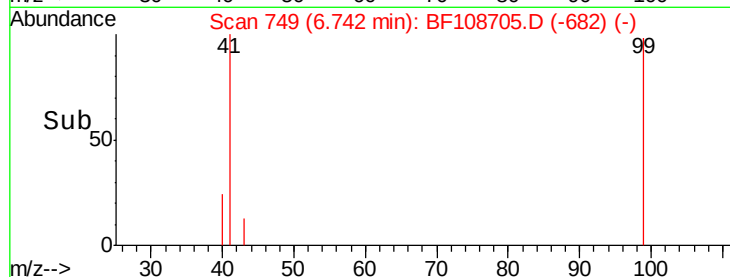
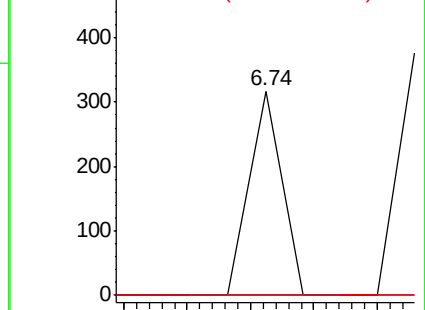
71 0.0 25.4 38.0#



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF108705.D

Acq: 31 Aug 2018 22:31

Tgt Ion: 136 Resp: 223078

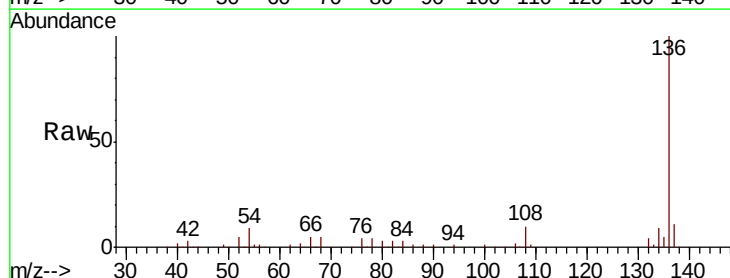
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.6 6.6 9.8

68 5.1 5.0 7.4

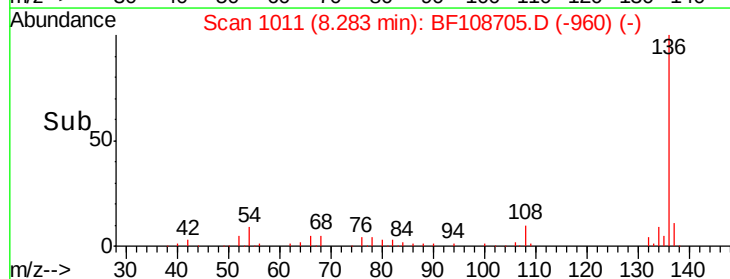
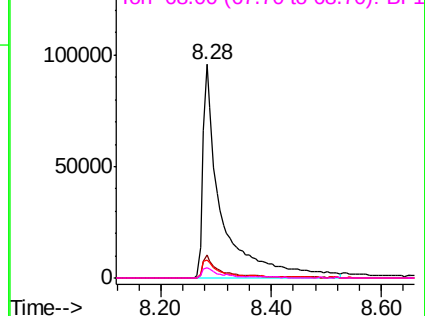


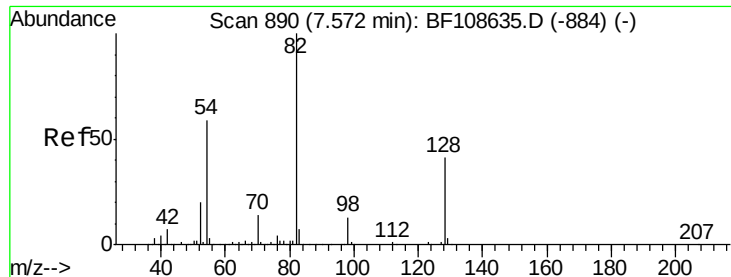
Abundance Ion 136.00 (135.70 to 136.70): E

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

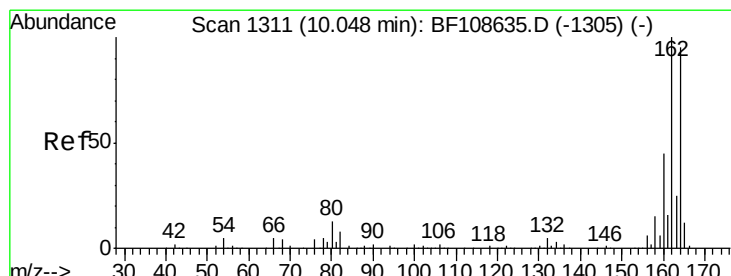
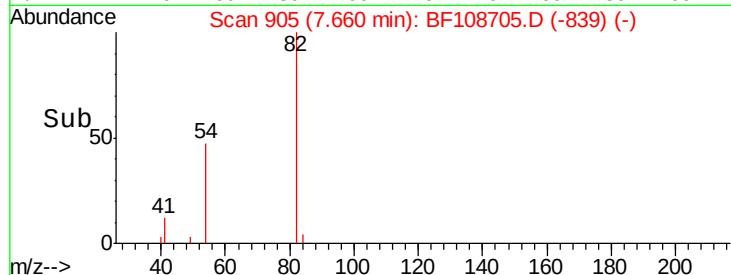
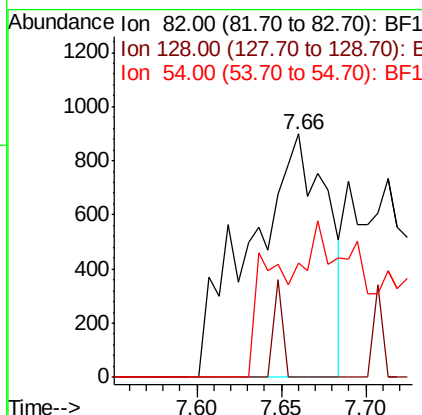
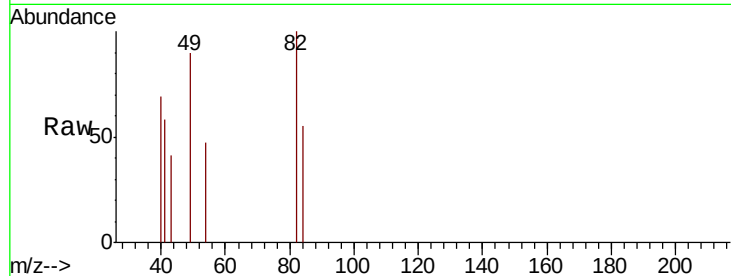




#23
 Nitrobenzene-d5
 Concen: 0.650 ng
 RT: 7.66 min Scan# 905
 Delta R.T. 0.09 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

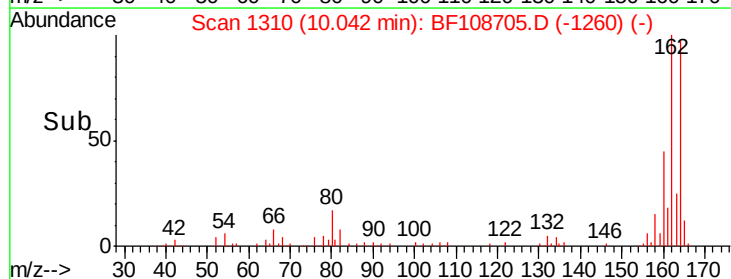
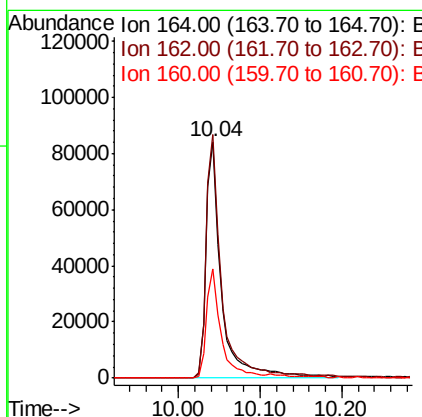
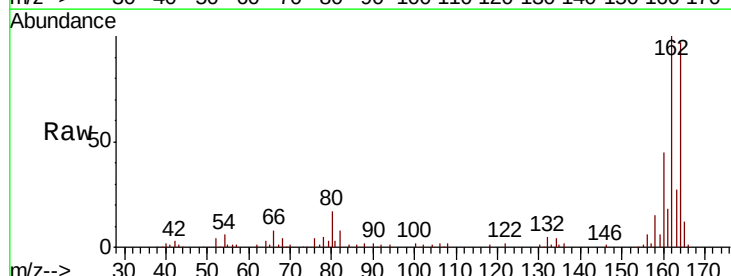
Instrument :
 BNA_F
 ClientSampled :

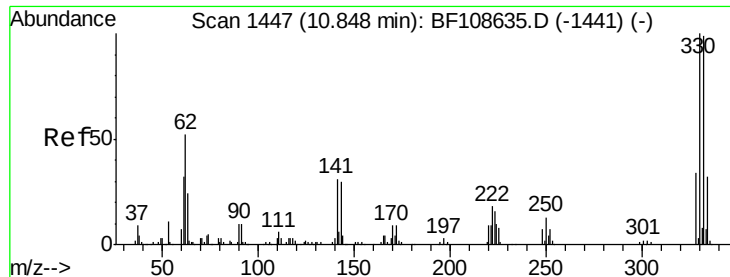
Tot Ion	82	Resp	2856
Ion Ratio	Lower	Upper	
82	100		
128	0.0	36.1	54.1#
54	46.7	41.4	62.2



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.04 min Scan# 1310
 Delta R.T. -0.01 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Tgt Ion	164	Resp	111595
Ion Ratio	Lower	Upper	
164	100		
162	103.0	86.1	129.1
160	46.2	38.3	57.5

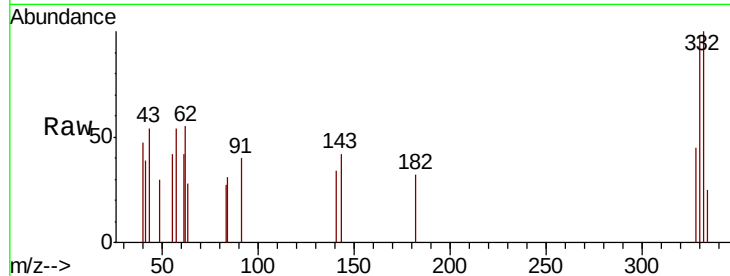




#41
 2,4,6-Tribromophenol
 Concen: 1.734 ng
 RT: 10.85 min Scan# 1447
 Delta R.T. -0.00 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.4	77.0	115.6
141	22.8	29.9	44.9

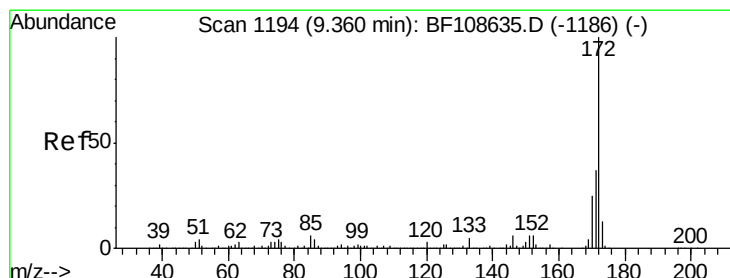
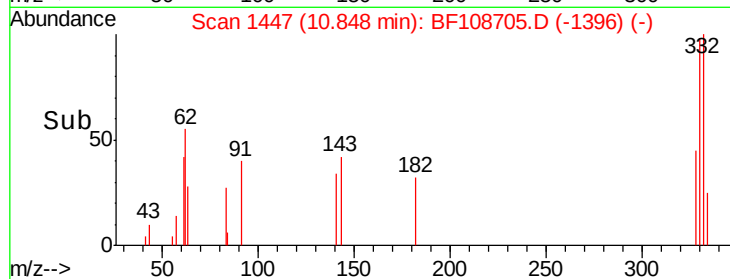
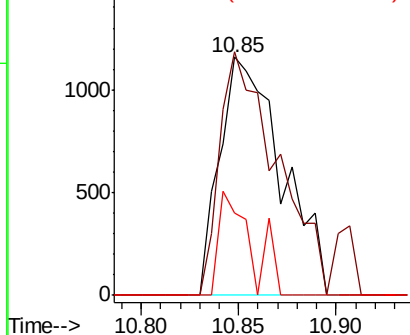


Abundance

Ion 329.80 (329.50 to 330.50): E

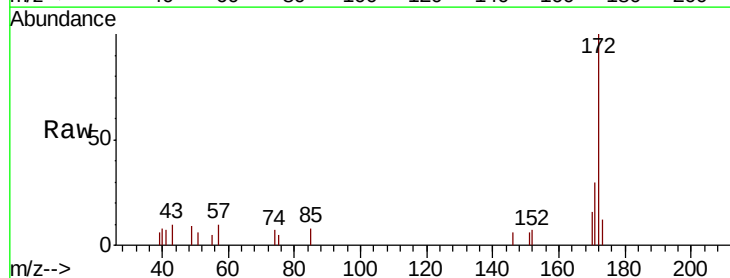
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 1.788 ng
 RT: 9.35 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	30.0	29.7	44.5
170	16.5	19.6	29.4

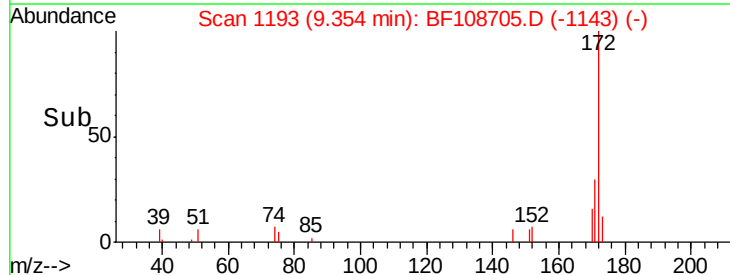
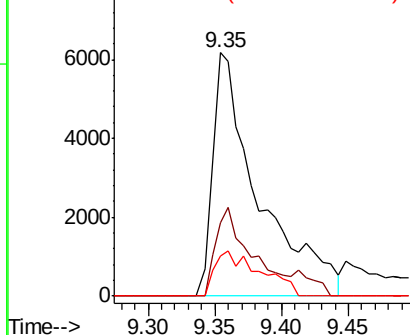


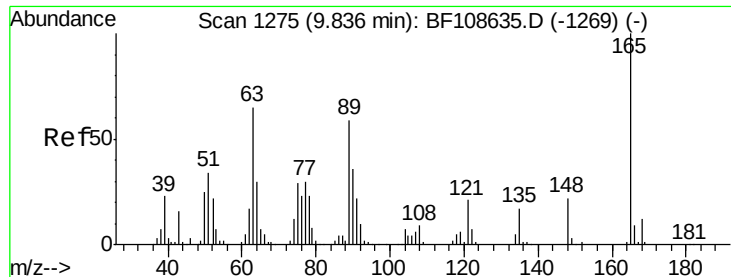
Abundance

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

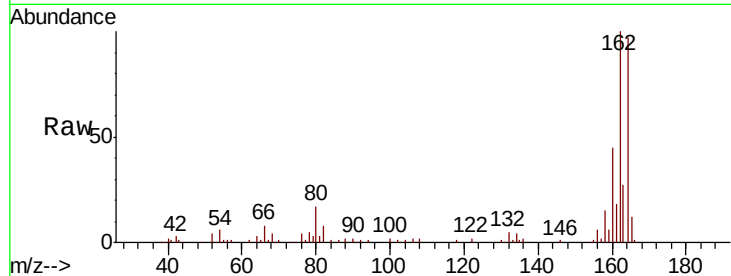




#50
 2,6-Dinitrotoluene
 Concen: 6.928 ng
 RT: 10.04 min Scan# 1310
 Delta R.T. 0.21 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#

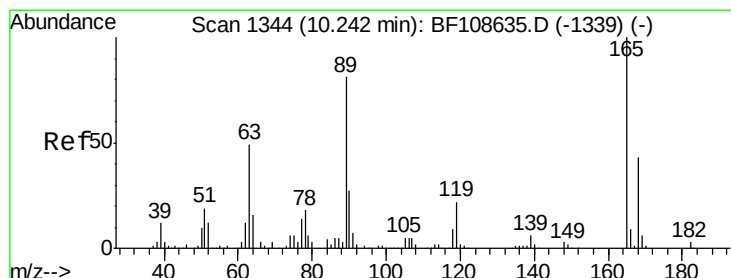
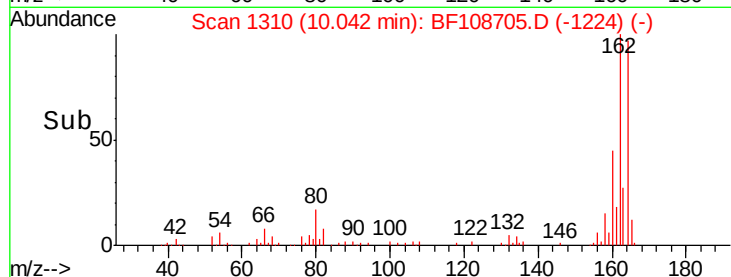
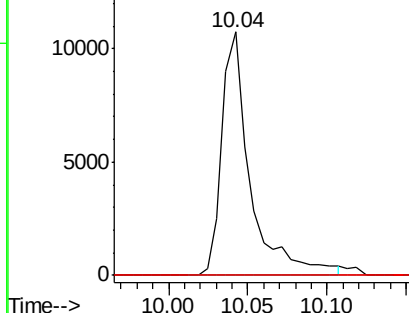


Abundance

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
 2,4-Dinitrotoluene
 Concen: 5.324 ng
 RT: 10.04 min Scan# 1310
 Delta R.T. -0.20 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#

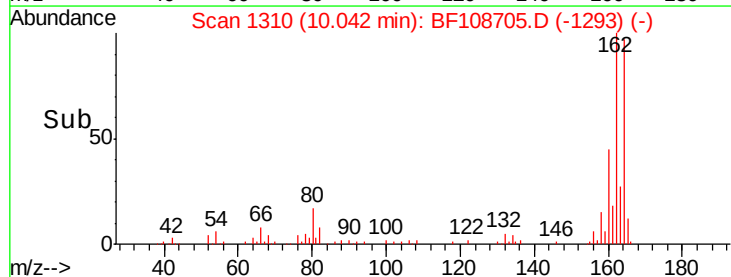
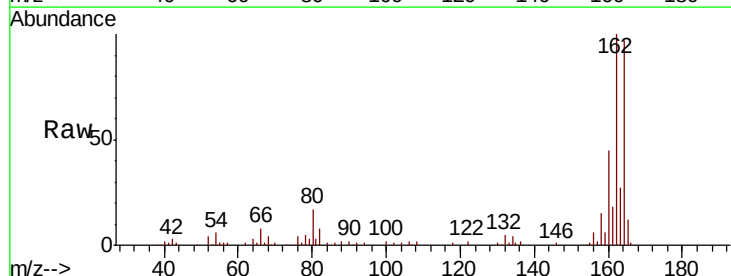
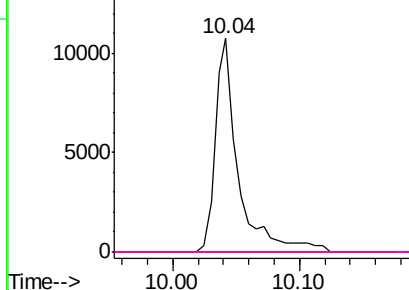
Abundance

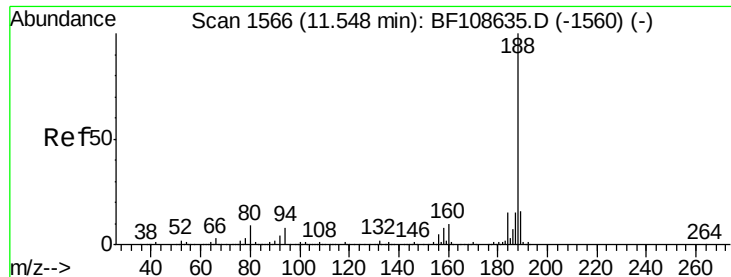
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

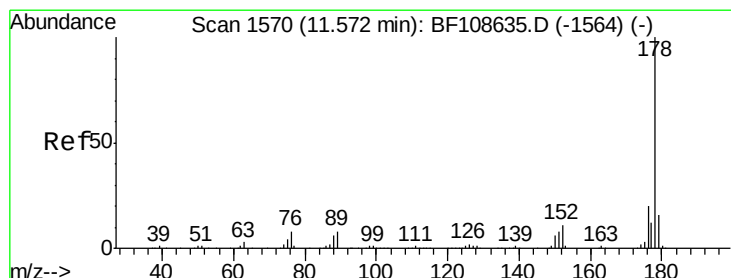
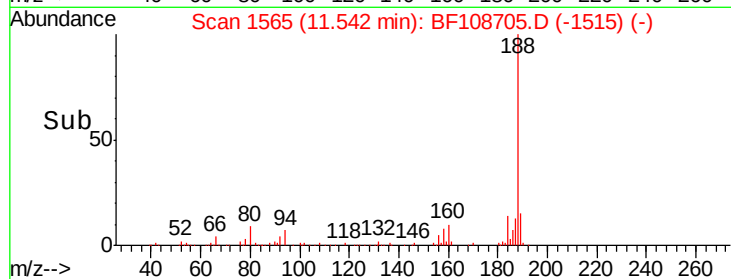
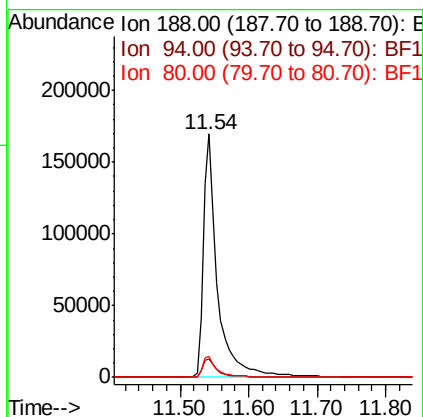
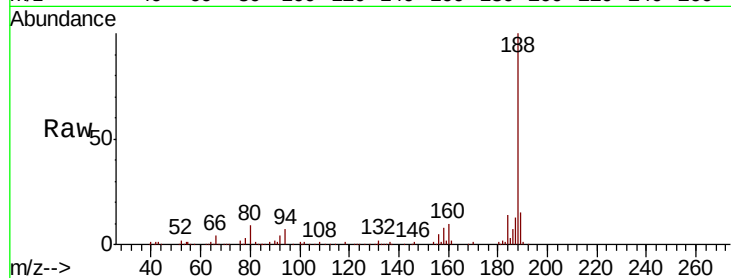




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.54 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

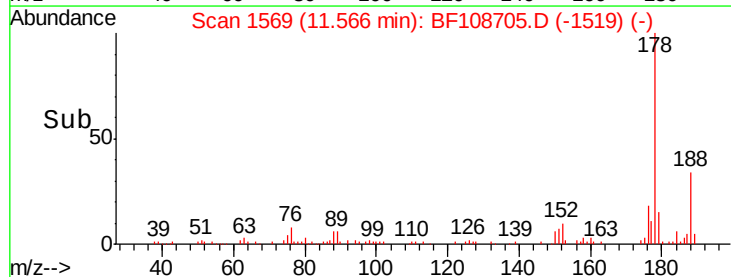
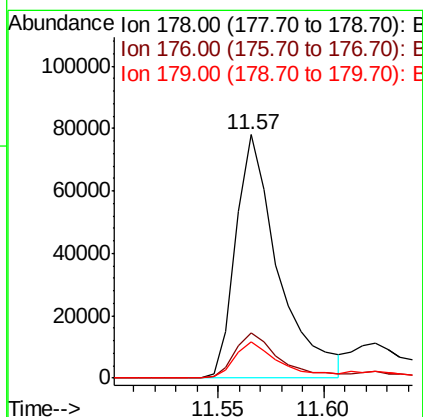
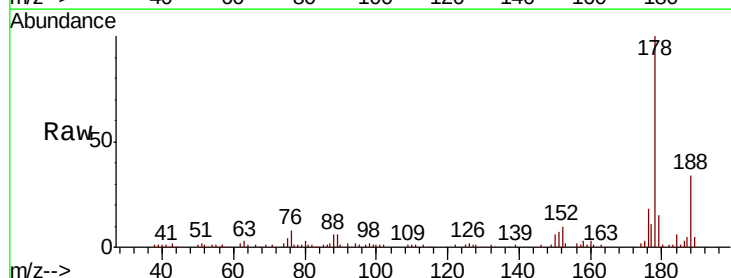
Instrument :
BNA_F
ClientSampleId :

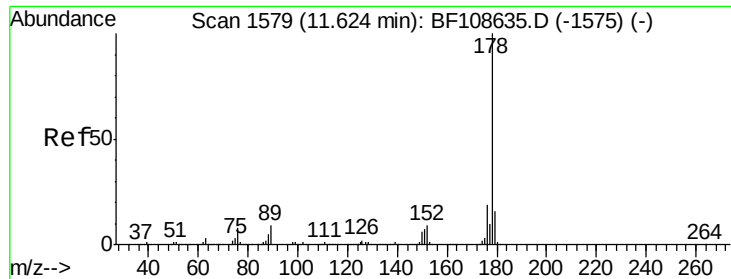
Tot Ion:188 Resp: 249671
Ion Ratio Lower Upper
188 100
94 7.3 8.5 12.7#
80 8.8 9.2 13.8#



#70
Phenanthrene
Concen: 8.649 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Tgt Ion:178 Resp: 109002
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.8
179 14.7 13.0 19.6

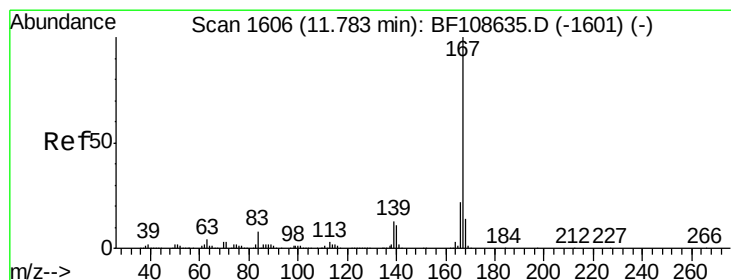
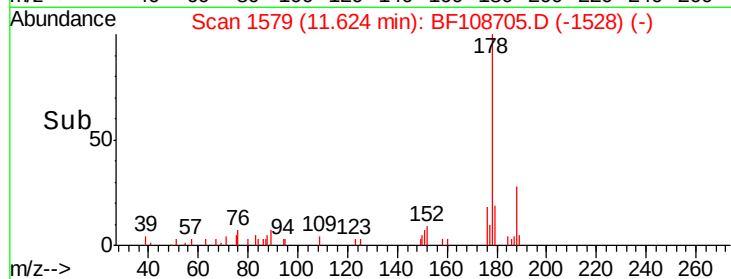
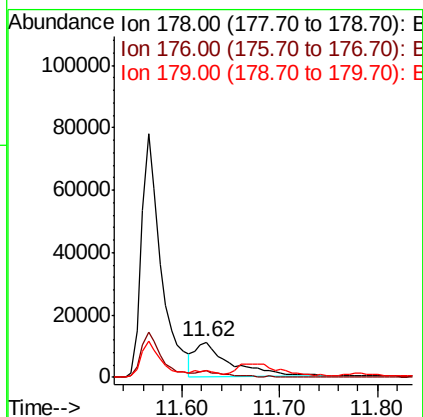
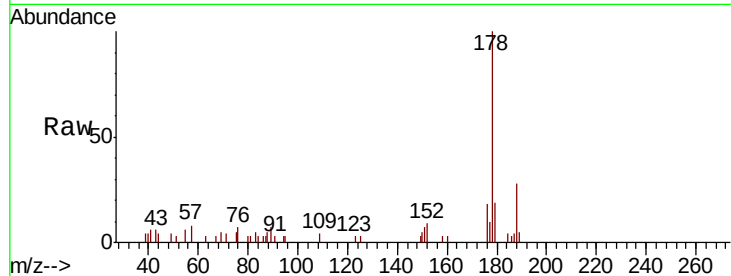




#71
 Anthracene
 Concen: 2.189 ng
 RT: 11.62 min Scan# 1579
 Delta R.T. -0.00 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

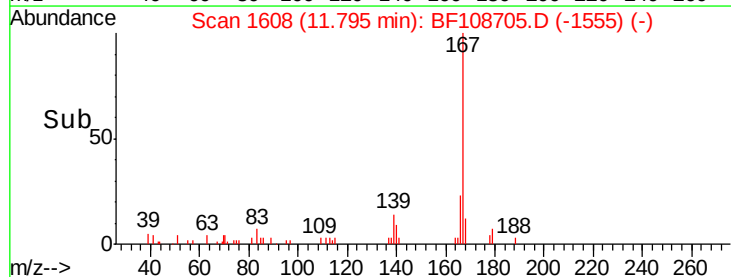
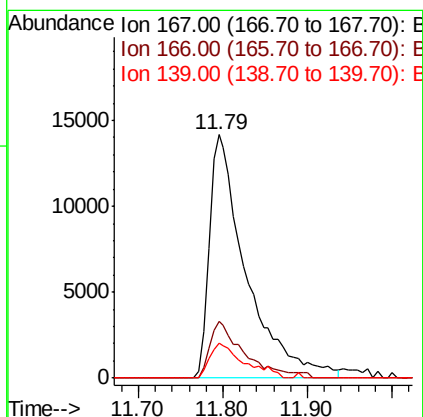
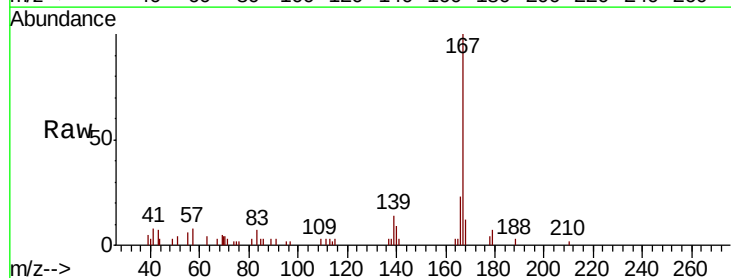
Instrument :
 BNA_F
 ClientSampleId :

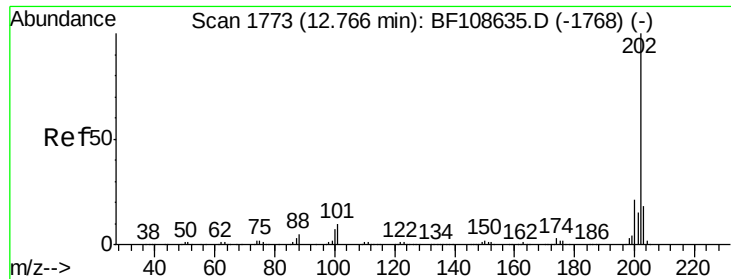
Tot Ion:178 Resp: 28984
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.4 23.2
 179 18.6 12.6 19.0



#72
 Carbazole
 Concen: 3.363 ng
 RT: 11.79 min Scan# 1608
 Delta R.T. 0.01 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Tgt Ion:167 Resp: 43059
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.6 26.4
 139 14.3 10.9 16.3





#74

Fluoranthene

Concen: 40.235 ng

RT: 12.76 min Scan# 1772

Delta R.T. -0.01 min

Lab File: BF108705.D

Acq: 31 Aug 2018 22:31

Instrument :

BNA_F

ClientSampleId :

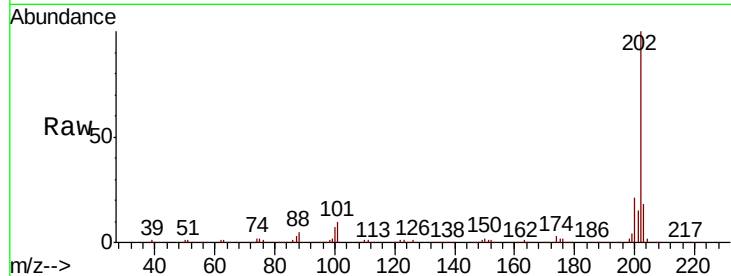
Tot Ion:202 Resp: 570745

Ion Ratio Lower Upper

202 100

101 9.5 0.0 34.1

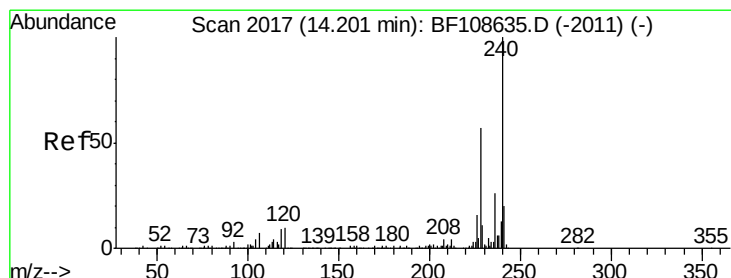
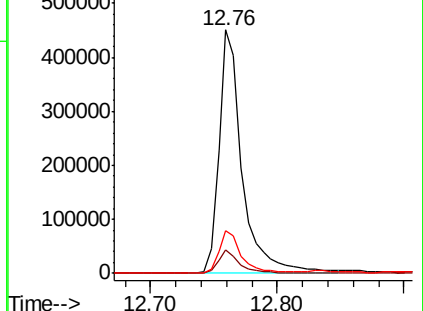
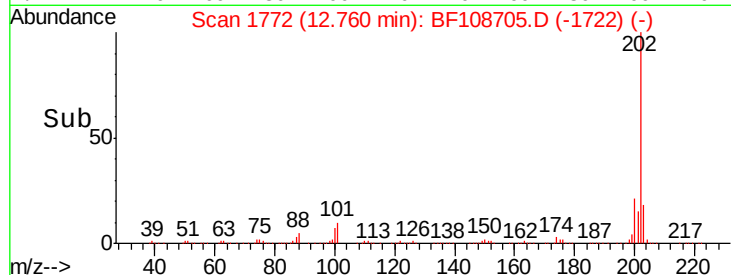
203 17.6 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BF108705.D

Acq: 31 Aug 2018 22:31

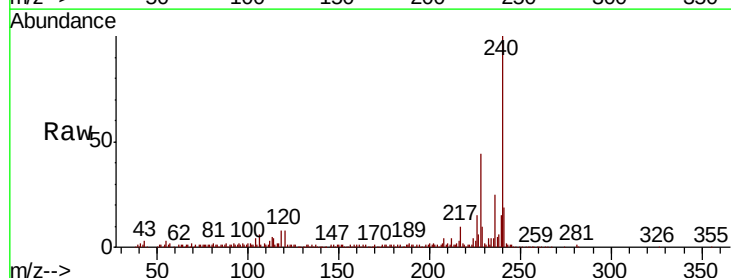
Tgt Ion:240 Resp: 222429

Ion Ratio Lower Upper

240 100

120 8.1 9.5 14.3#

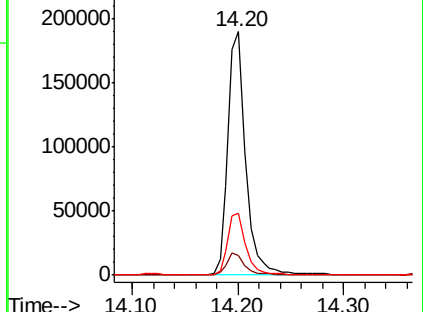
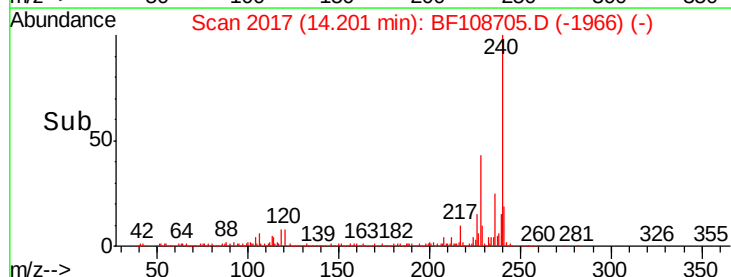
236 25.4 20.7 31.1

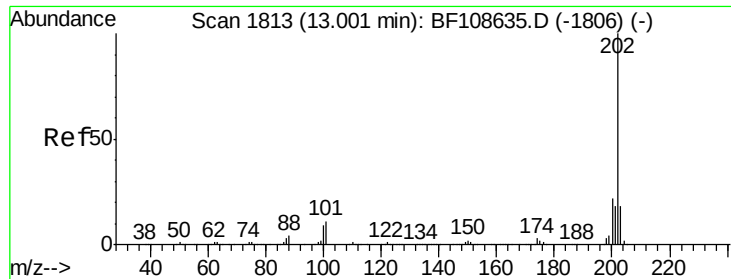


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

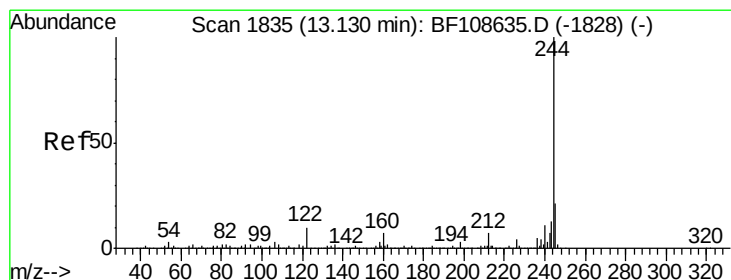
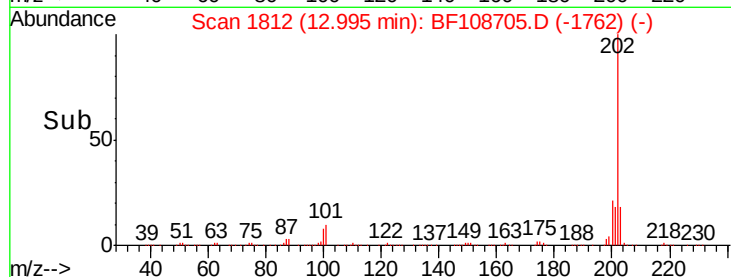
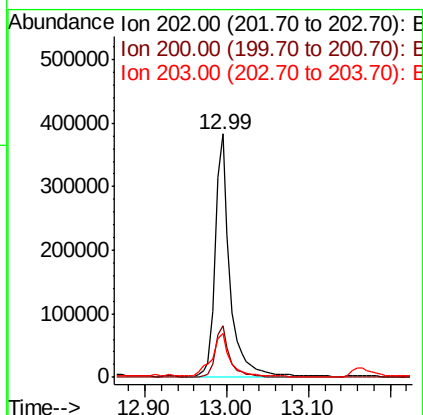
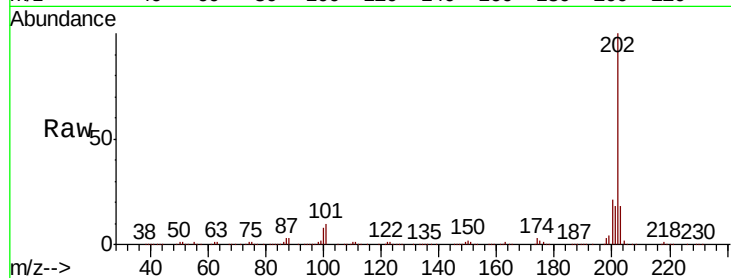




#77
Pvrene
Concen: 28.450 ng
RT: 12.99 min Scan# 1812
Delta R.T. -0.01 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

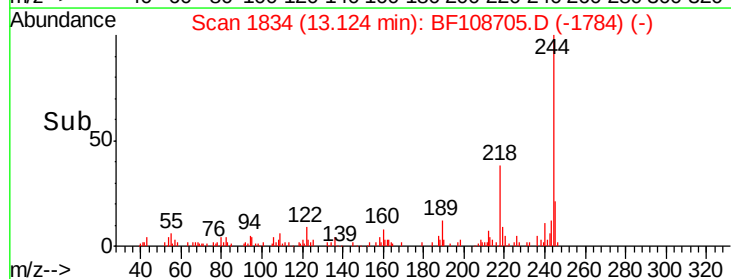
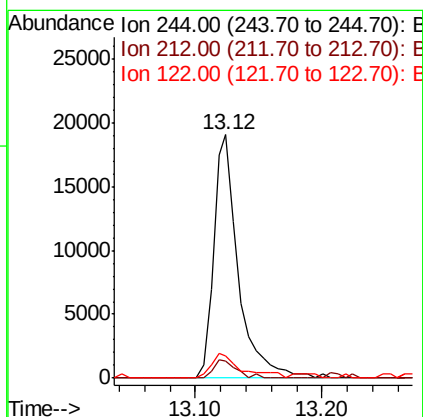
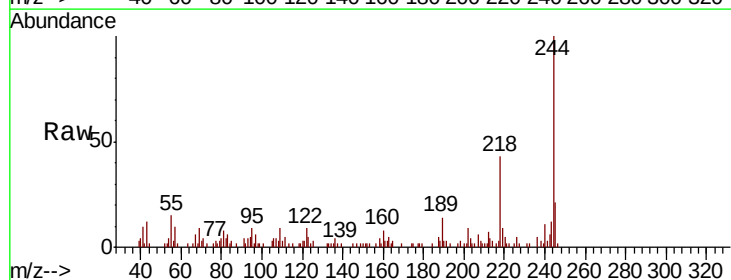
Instrument :
BNA_F
ClientSampleId :

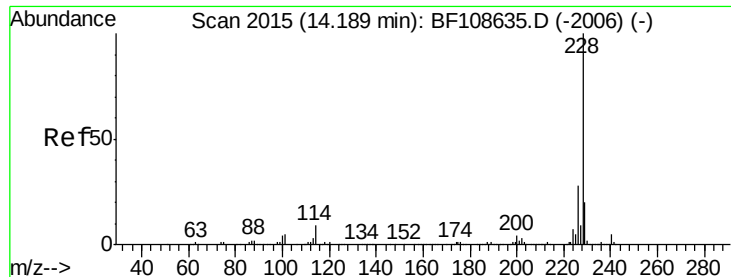
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	18.0	14.3	21.5



#78
Terphenyl-d14
Concen: 2.263 ng
RT: 13.12 min Scan# 1834
Delta R.T. -0.01 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	9.3	11.0	16.4#

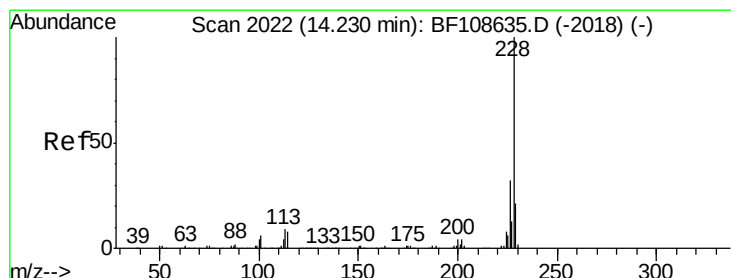
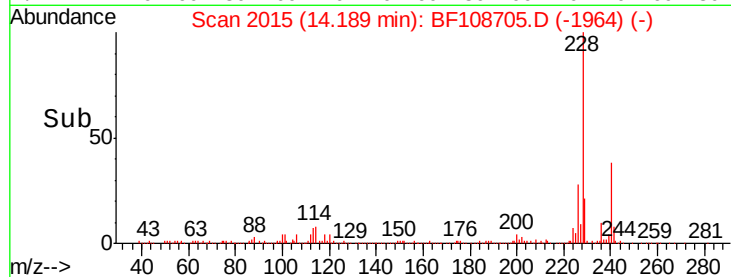
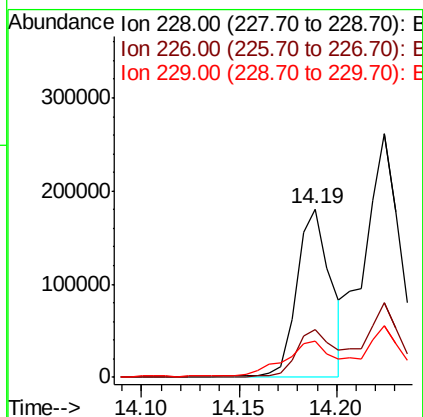
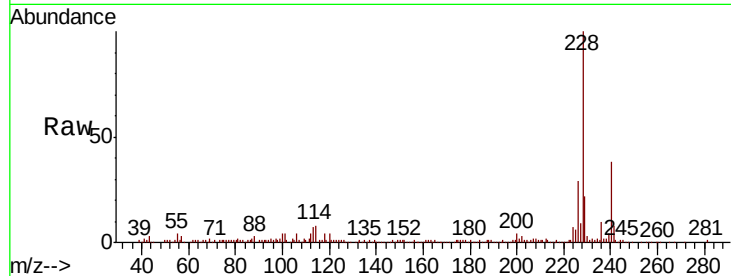




#80
Benzo(a)anthracene
Concen: 16.030 ng
RT: 14.19 min Scan# 2015
Delta R.T. -0.00 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

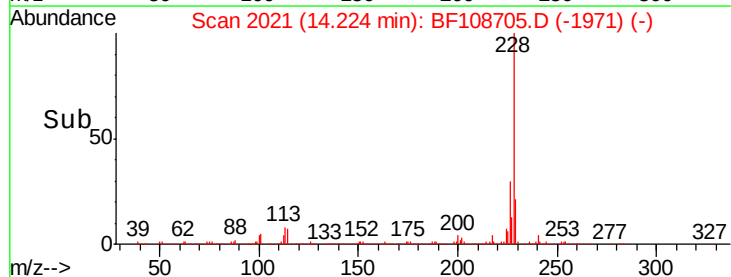
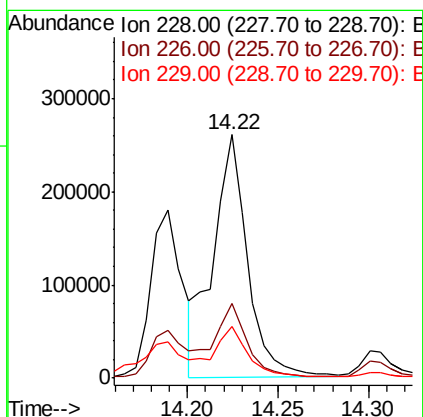
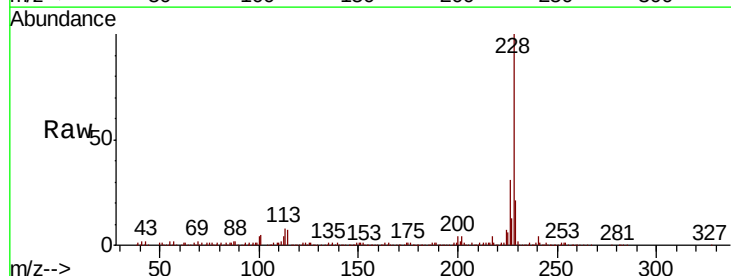
Instrument :
BNA_F
ClientSampleId :

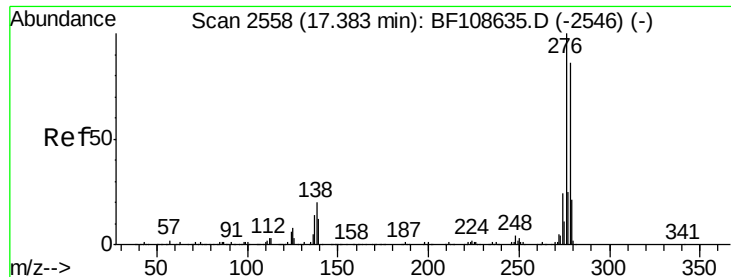
Tot Ion:228 Resp: 217368
Ion Ratio Lower Upper
228 100
226 28.6 22.6 33.8
229 21.6 15.8 23.6



#82
Chrysene
Concen: 26.501 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Tgt Ion:228 Resp: 345574
Ion Ratio Lower Upper
228 100
226 30.7 25.0 37.6
229 21.0 16.2 24.4

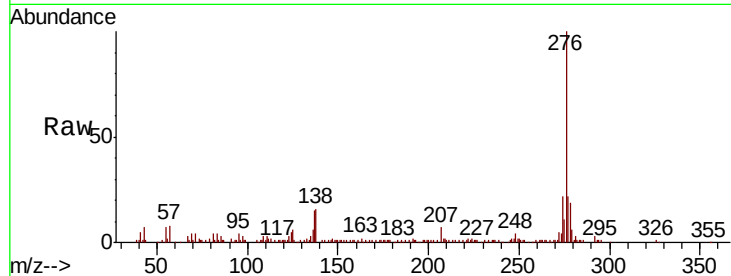




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 21.719 ng
 RT: 17.38 min Scan# 2558
 Delta R.T. -0.00 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.7	25.0	37.6#
277	23.5	20.1	30.1

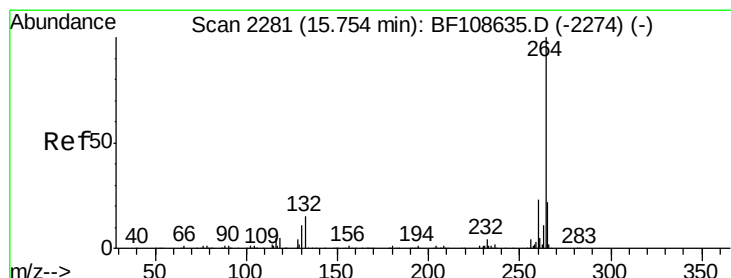
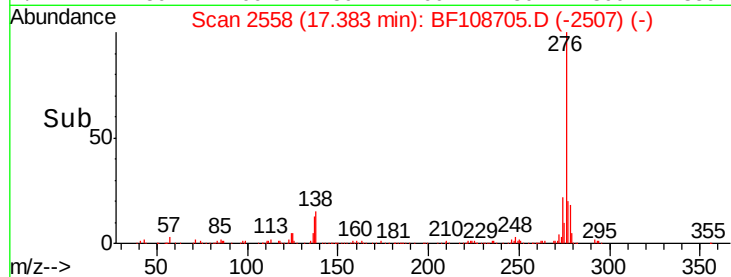
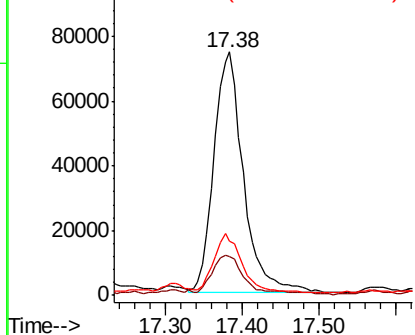


Abundance

Ion 276.00 (275.70 to 276.70): E

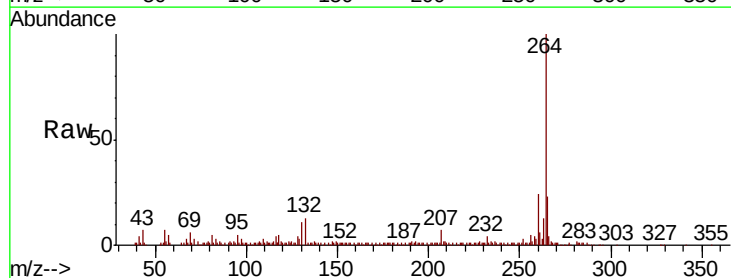
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.76 min Scan# 2282
 Delta R.T. 0.01 min
 Lab File: BF108705.D
 Acq: 31 Aug 2018 22:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	22.5	17.5	26.3

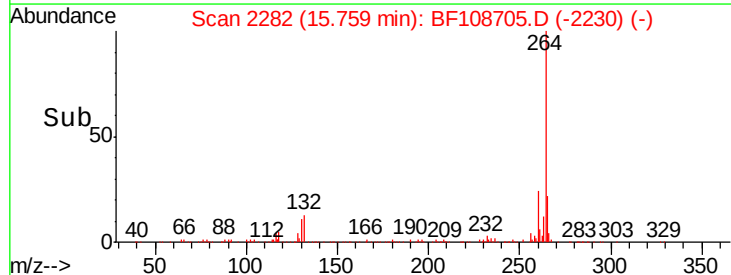
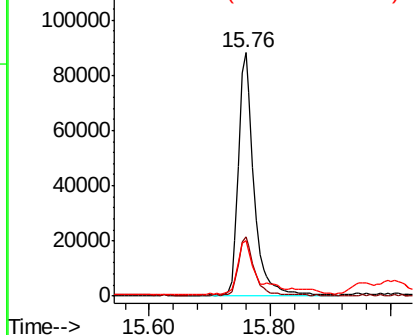


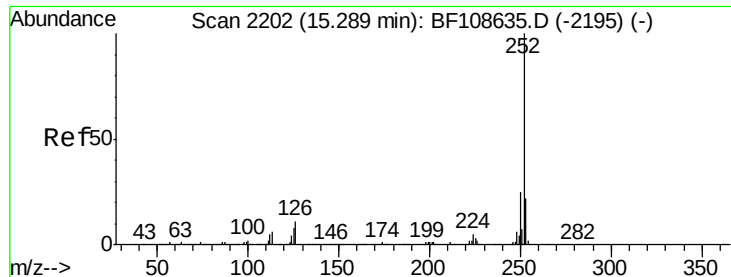
Abundance

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





#87

Benzo(b)fluoranthene

Concen: 57.820 ng

RT: 15.29 min Scan# 2202

Delta R.T. -0.00 min

Lab File: BF108705.D

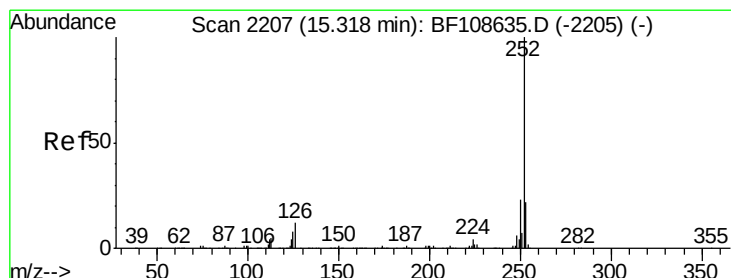
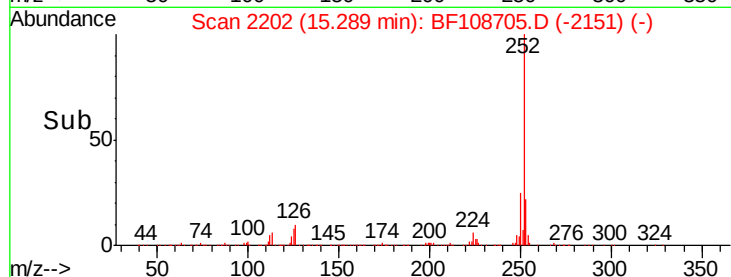
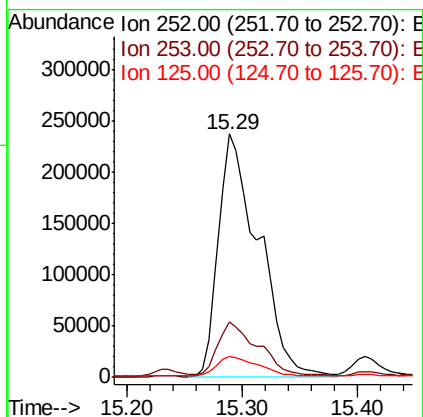
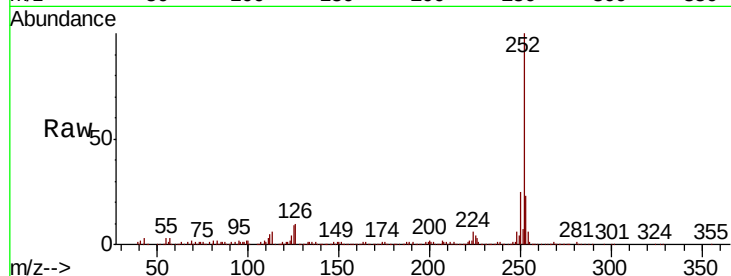
Acq: 31 Aug 2018 22:31

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	570157
Ion Ratio	Lower	Upper
252	100	
253	22.7	17.0 25.6
125	8.5	9.0 13.6#



#88

Benzo(k)fluoranthene

Concen: 58.368 ng

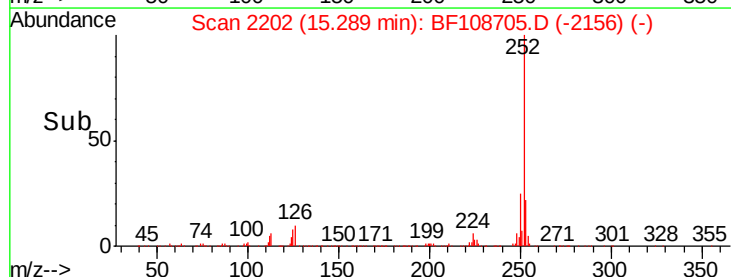
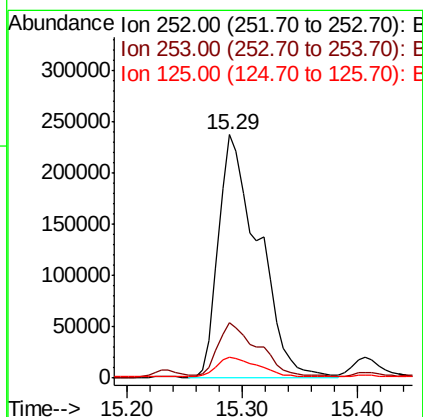
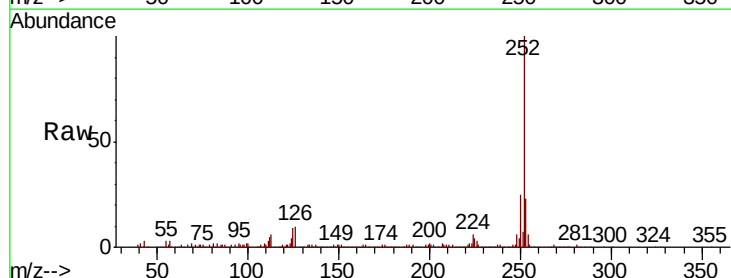
RT: 15.29 min Scan# 2202

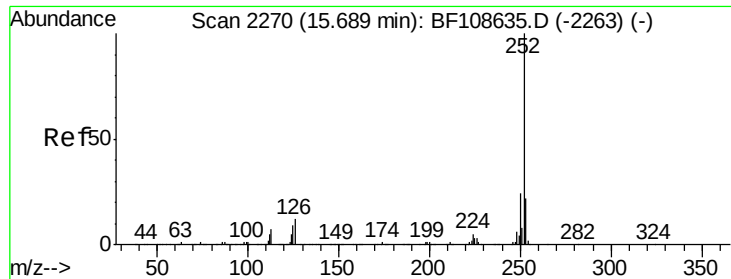
Delta R.T. -0.03 min

Lab File: BF108705.D

Acq: 31 Aug 2018 22:31

Tgt Ion:252	Resp:	570157
Ion Ratio	Lower	Upper
252	100	
253	22.7	17.9 26.9
125	8.5	10.2 15.2#

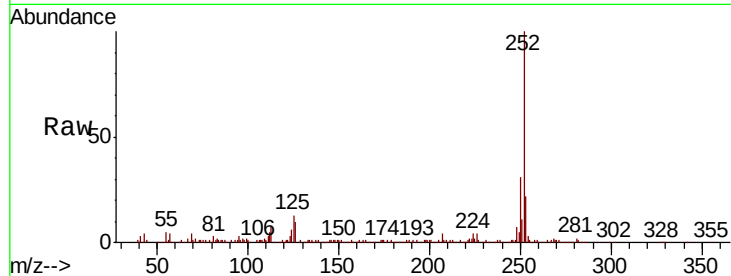




#89
Benzo(a)pyrene
Concen: 23.330 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.07 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	13.3	9.8	14.6

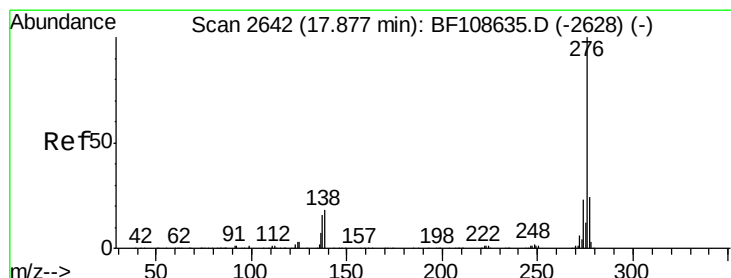
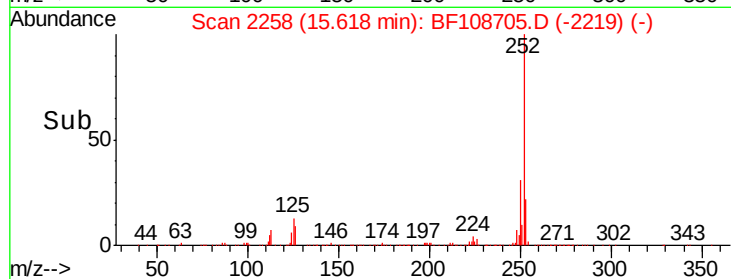
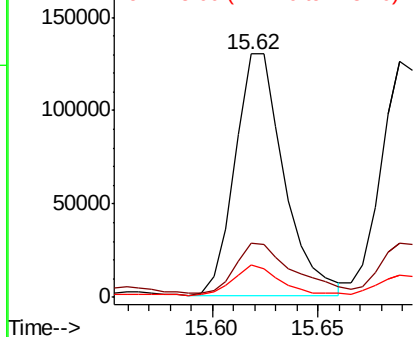


Abundance

Ion 252.00 (251.70 to 252.70): E

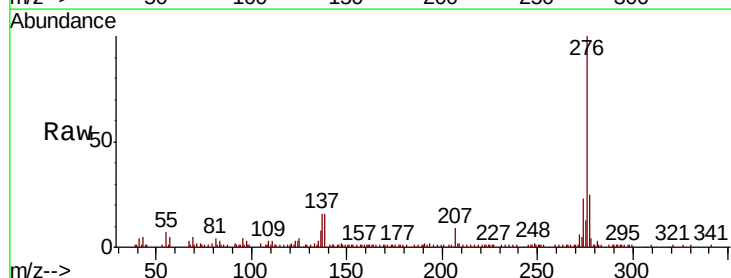
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 29.517 ng
RT: 17.88 min Scan# 2642
Delta R.T. -0.00 min
Lab File: BF108705.D
Acq: 31 Aug 2018 22:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	17.9	26.9
138	16.3	21.8	32.8



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

