

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
 Data File : BF109043.D
 Acq On : 17 Sep 2018 12:58
 Operator : JU/SJ
 Sample : J4775-05 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091418-A

Quant Time: Sep 17 14:29:04 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

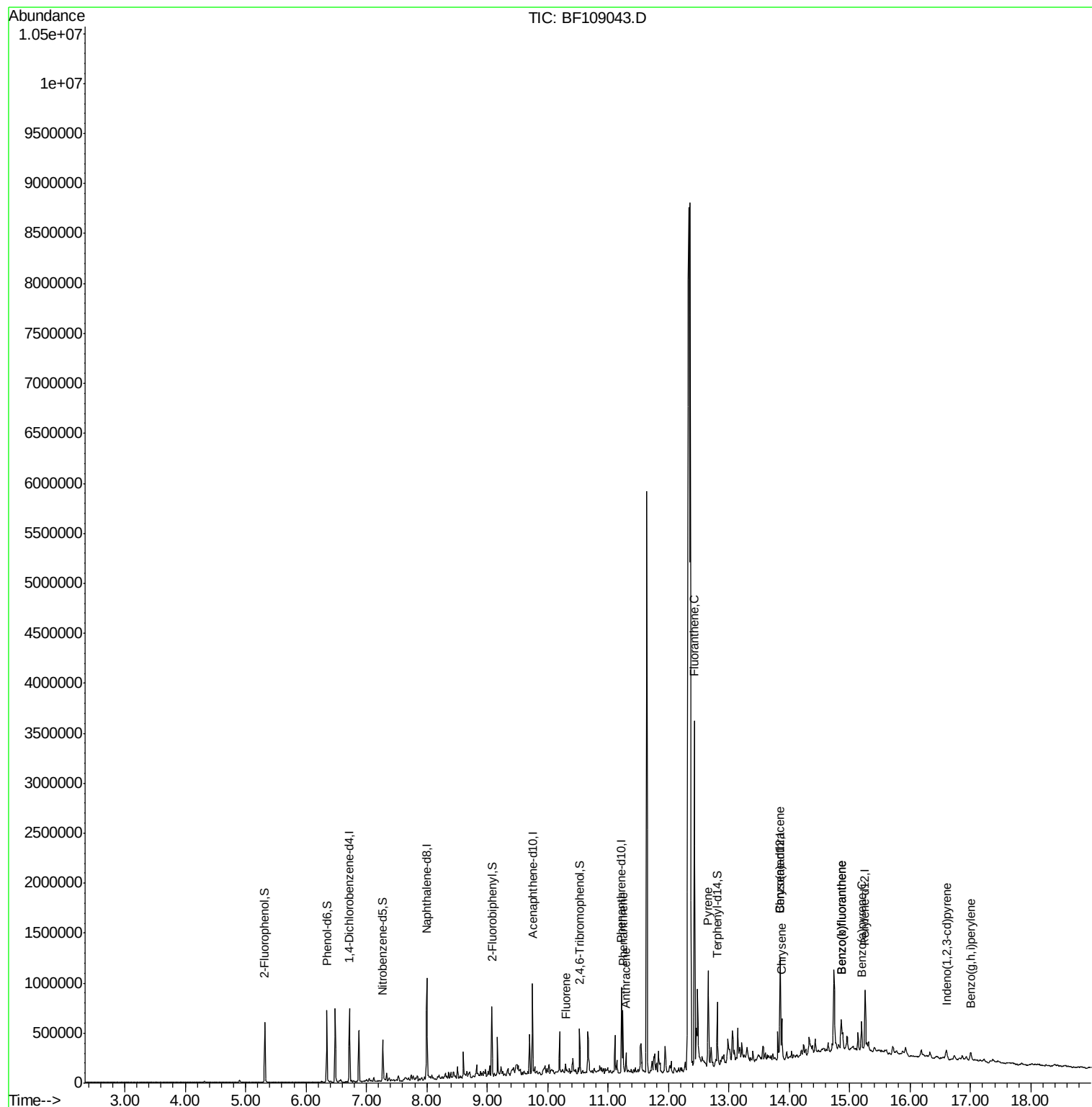
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	97489	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	343857	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	154112	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	291882	20.00	ng	0.00
75) Chrysene-d12	13.85	240	293760	20.00	ng	0.00
86) Perylene-d12	15.25	264	276680	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	163487	27.85	ng	0.00
7) Phenol-d6	6.34	99	204754	27.05	ng	-0.02
23) Nitrobenzene-d5	7.27	82	119451	19.48	ng	-0.02
41) 2,4,6-Tribromophenol	10.53	330	43024	25.72	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	214207	21.78	ng	0.00
78) Terphenyl-d14	12.81	244	216288	17.45	ng	0.00
Target Compounds						
57) Fluorene	10.30	166	20731	2.322	ng	Qvalue # 95
70) Phenanthrene	11.25	178	211321	14.769	ng	98
71) Anthracene	11.30	178	64353	4.437	ng	96
74) Fluoranthene	12.44	202	302938	20.055	ng	98
77) Pyrene	12.66	202	331377	15.187	ng	100
80) Benzo(a)anthracene	13.84	228	179839	10.112	ng	96
82) Chrysene	13.88	228	147496	8.289	ng	95
85) Indeno(1,2,3-cd)pyrene	16.60	276	57107	4.014	ng	93
87) Benzo(b)fluoranthene	14.86	252	229634	15.002	ng	98
88) Benzo(k)fluoranthene	14.86	252	229634	16.062	ng	99
89) Benzo(a)pyrene	15.19	252	123392	9.077	ng	95
91) Benzo(a,h,i)perylene	17.01	276	52061	4.560	ng	# 91

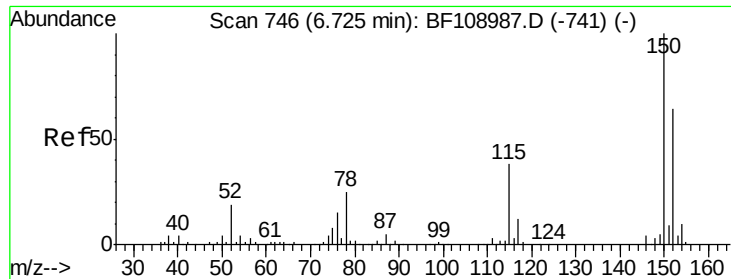
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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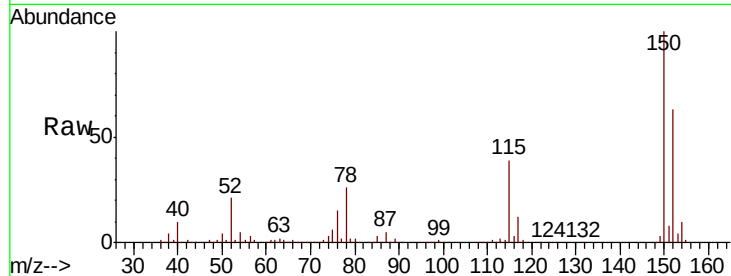


#1

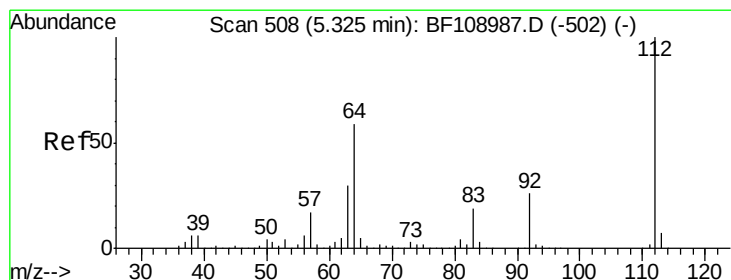
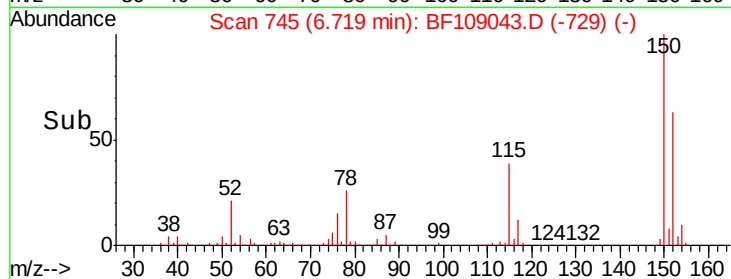
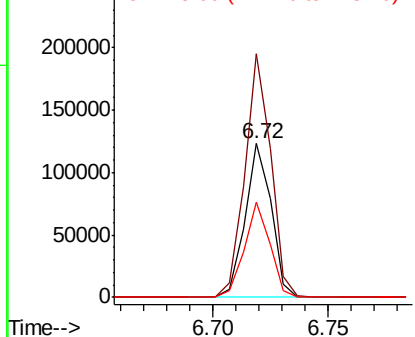
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

Instrument :
BNA_F
ClientSampleId :
OR-03-091418-A

Tot Ion:152 Resp: 97489
Ion Ratio Lower Upper
152 100
150 158.6 124.6 186.8
115 61.7 50.1 75.1



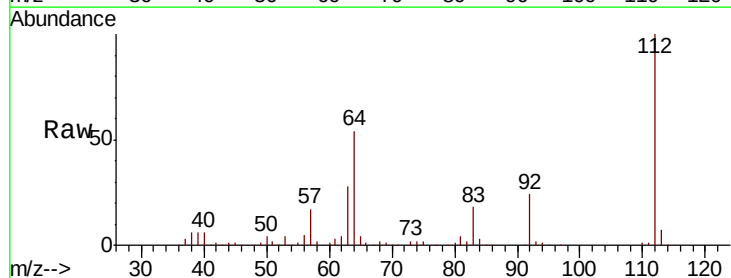
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



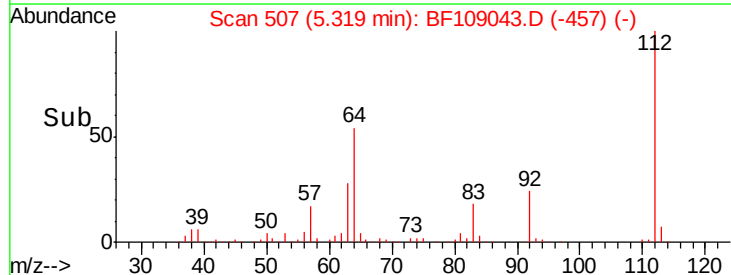
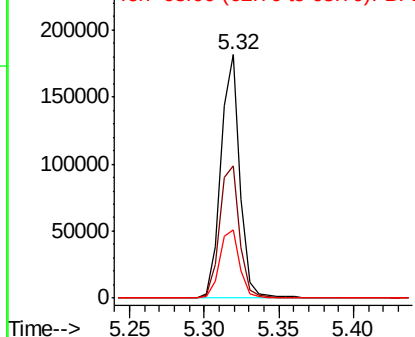
#5

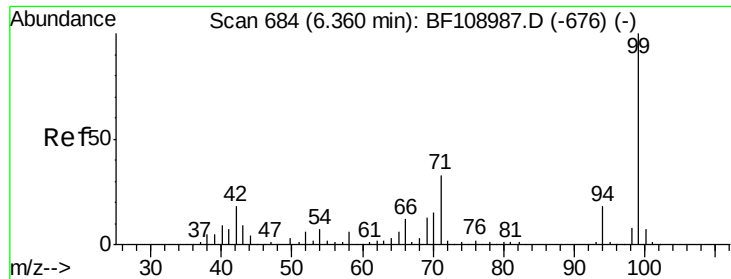
2-Fluorophenol
Concen: 27.853 ng
RT: 5.32 min Scan# 507
Delta R.T. -0.00 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

Tgt Ion:112 Resp: 163487
Ion Ratio Lower Upper
112 100
64 54.4 47.9 71.9
63 28.0 23.7 35.5



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: 27.053 ng

RT: 6.34 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

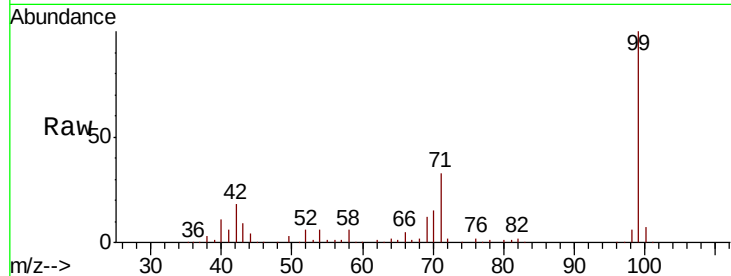
Tot Ion: 99 Resp: 204754

Ion Ratio Lower Upper

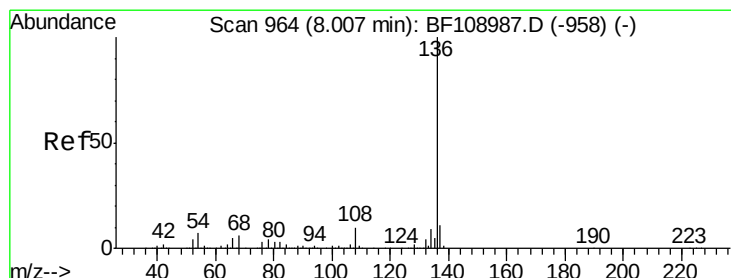
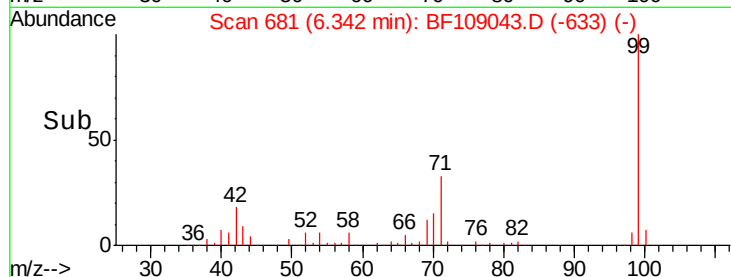
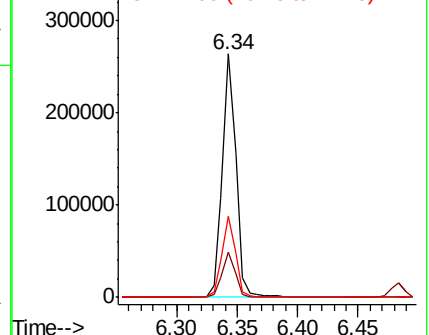
99 100

42 18.4 14.5 21.7

71 33.3 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: 8.00 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Tgt Ion: 136 Resp: 343857

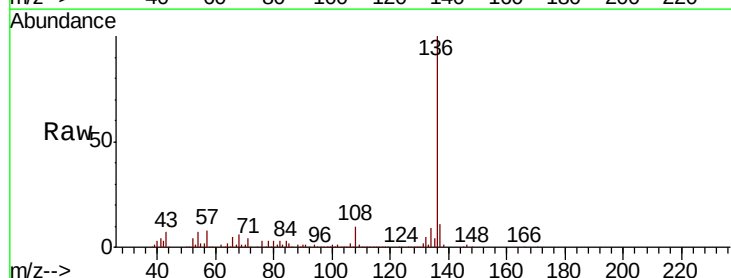
Ion Ratio Lower Upper

136 100

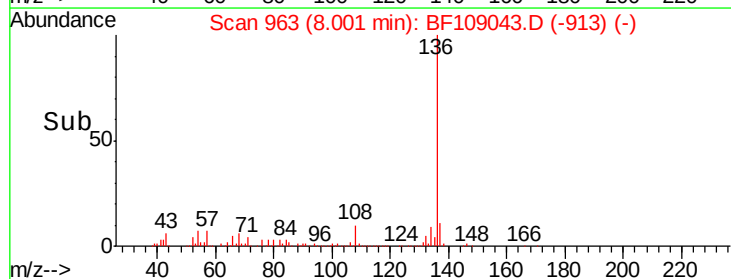
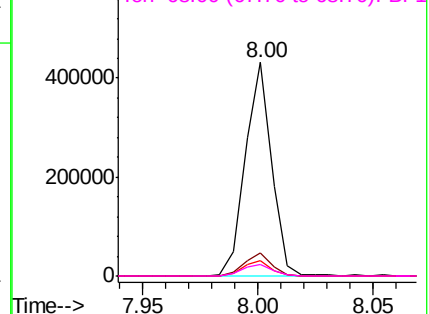
137 11.0 8.9 13.3

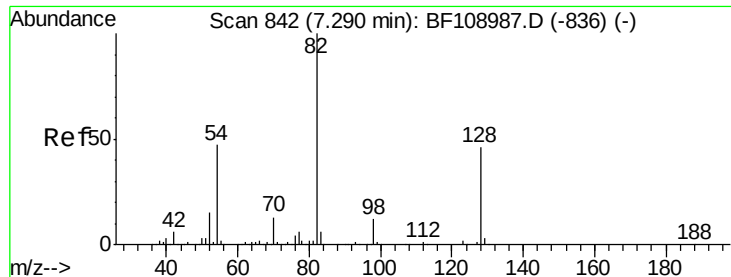
54 7.4 6.6 9.8

68 5.7 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

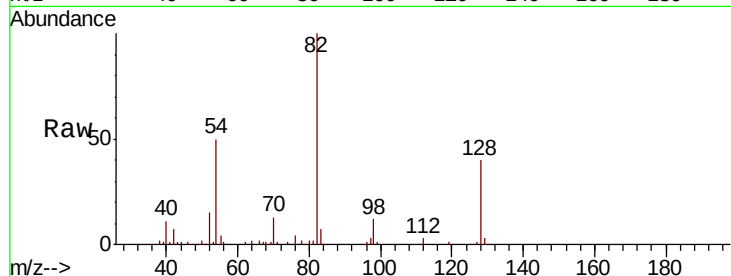




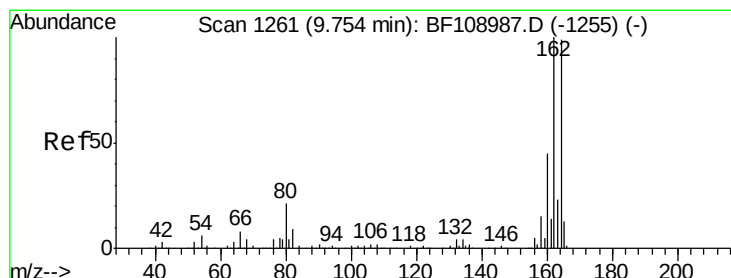
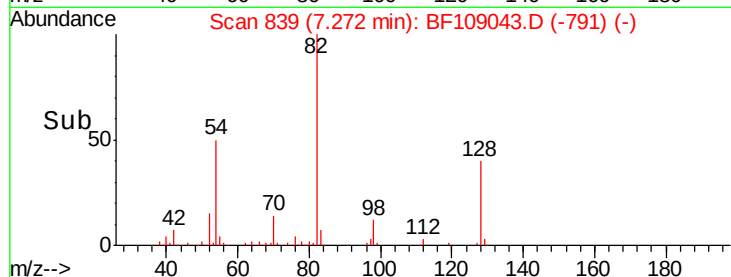
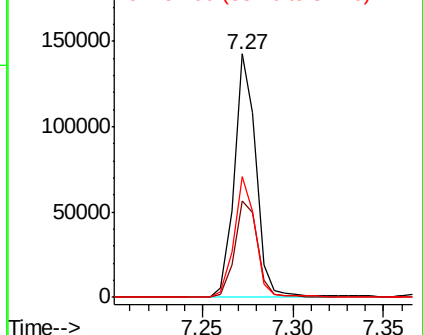
#23
Nitrobenzene-d5
Concen: 19.484 ng
RT: 7.27 min Scan# 839
Delta R.T. -0.02 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

Instrument :
BNA_F
ClientSampleId :
OR-03-091418-A

Tot Ion	82	Resp	119451
Ion Ratio	Lower	Upper	
82	100		
128	39.8	36.1	54.1
54	49.6	41.4	62.2

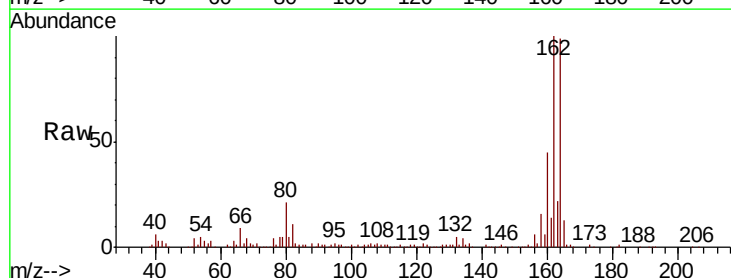


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

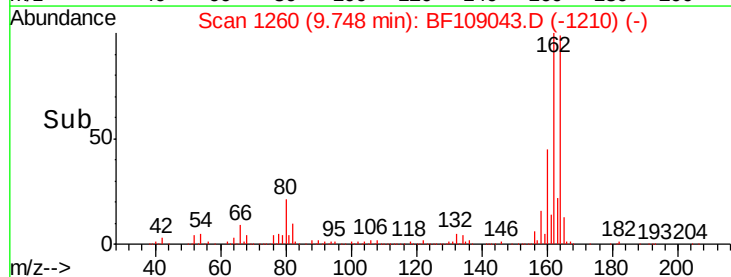
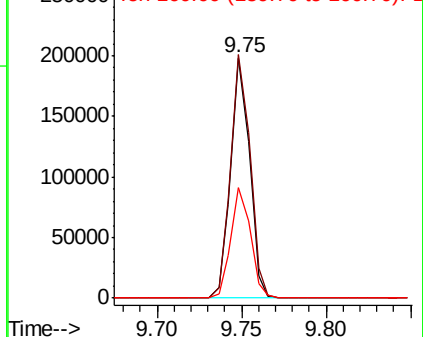


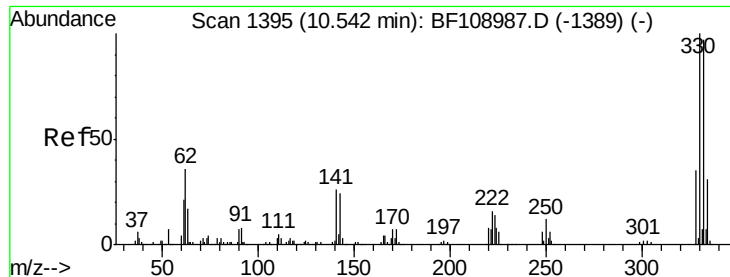
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

Tgt Ion	164	Resp	154112
Ion Ratio	Lower	Upper	
164	100		
162	101.5	86.1	129.1
160	46.1	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

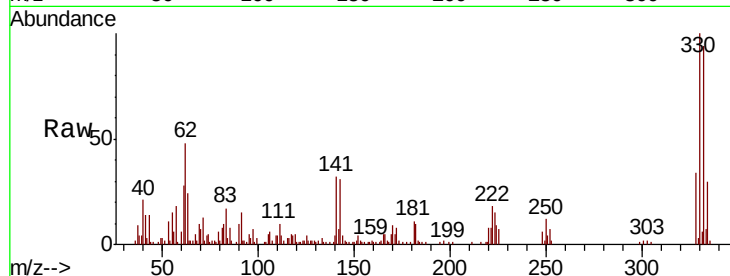




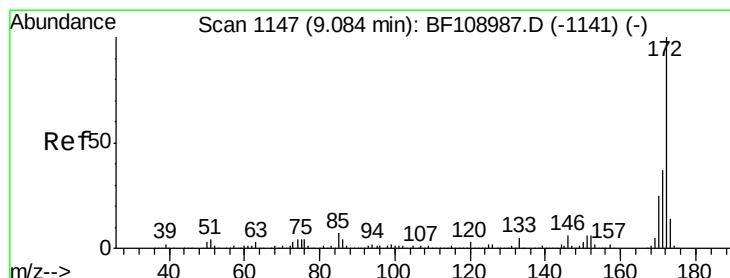
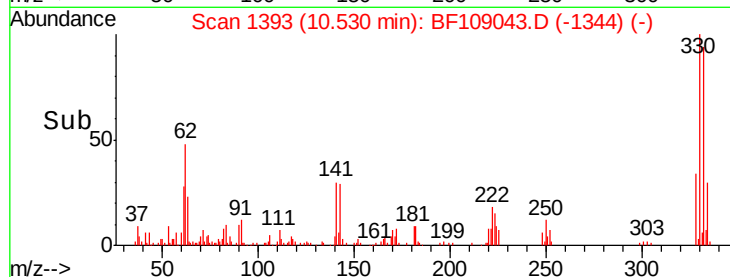
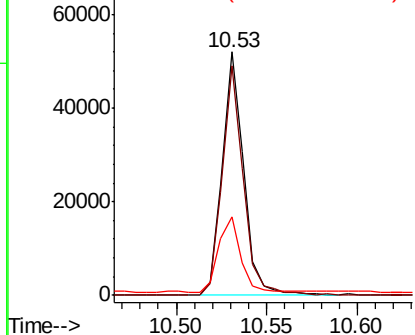
#41
 2,4,6-Tribromophenol
 Concen: 25.724 ng
 RT: 10.53 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091418-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.6	77.0	115.6
141	33.1	29.9	44.9

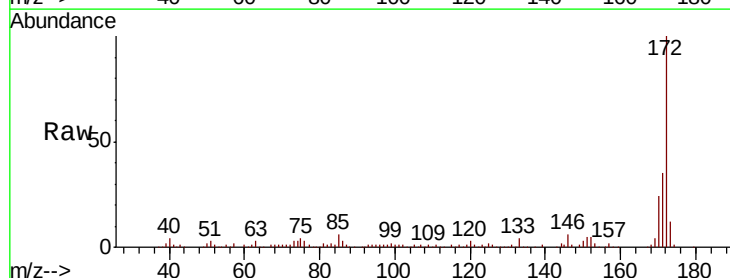


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

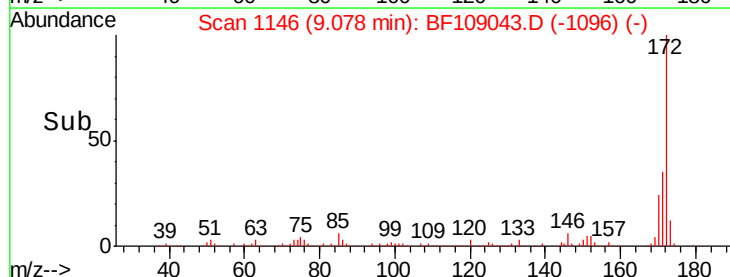
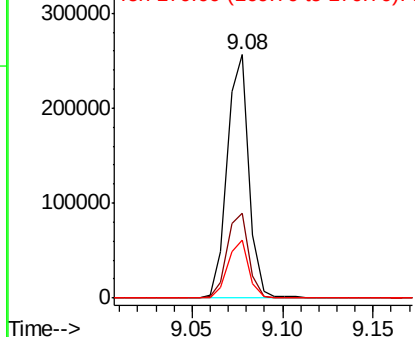


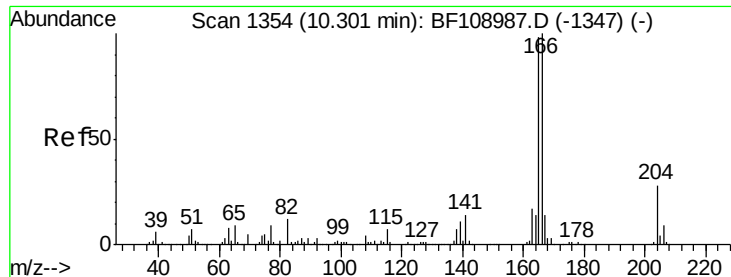
#44
 2-Fluorobiphenyl
 Concen: 21.777 ng
 RT: 9.08 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	23.9	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

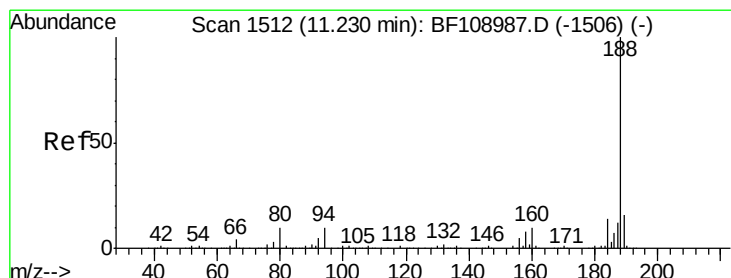
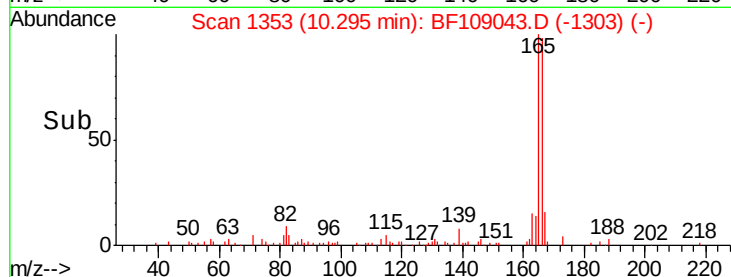
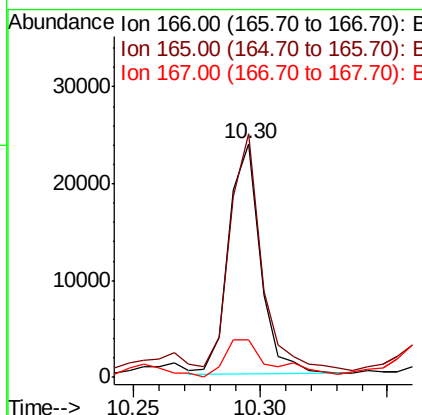
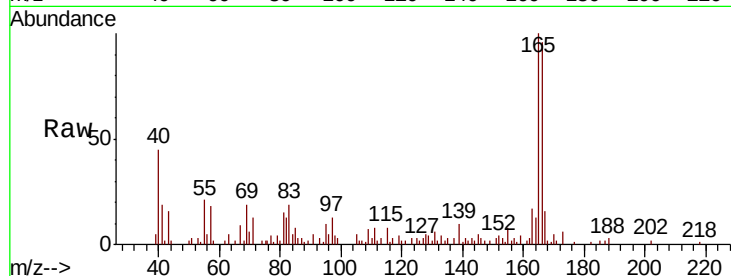




#57
 Fluorene
 Concen: 2.322 ng
 RT: 10.30 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

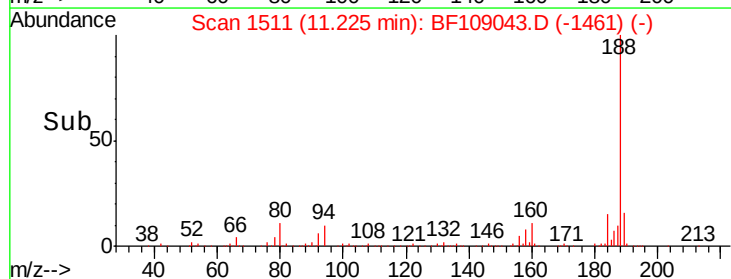
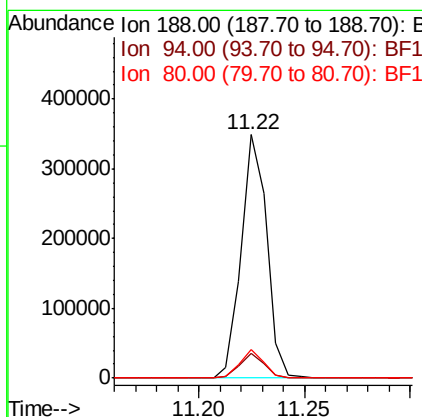
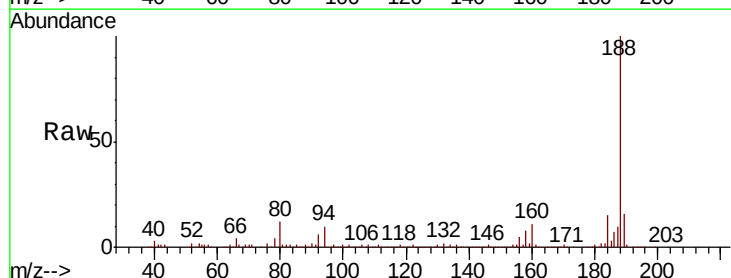
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091418-A

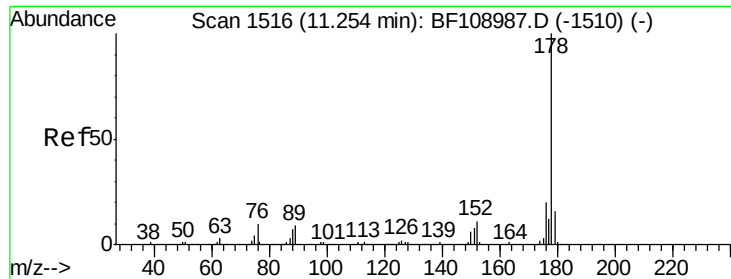
Tot Ion:166 Resp: 20731
 Ion Ratio Lower Upper
 166 100
 165 104.3 79.8 119.8
 167 16.3 10.6 16.0#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.22 min Scan# 1511
 Delta R.T. -0.01 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

Tgt Ion:188 Resp: 291882
 Ion Ratio Lower Upper
 188 100
 94 10.1 8.5 12.7
 80 11.6 9.2 13.8





#70

Phenanthrene

Concen: 14.769 ng

RT: 11.25 min Scan# 1515

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

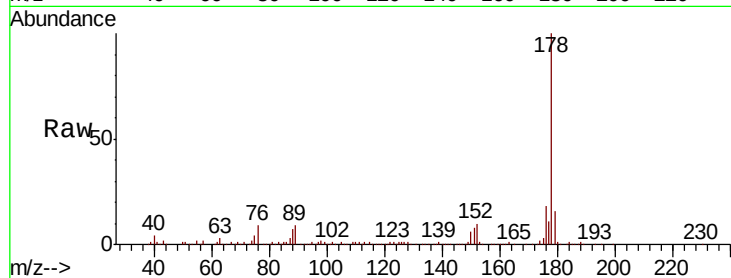
Tot Ion:178 Resp: 211321

Ion Ratio Lower Upper

178 100

176 18.3 15.8 23.8

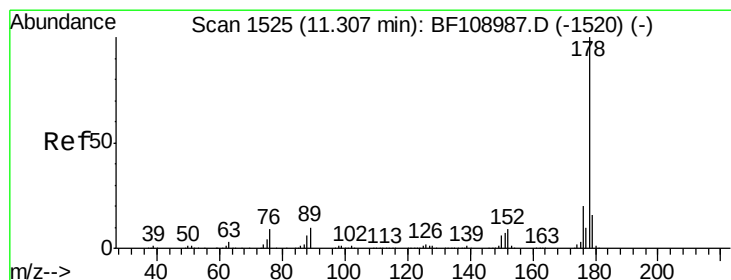
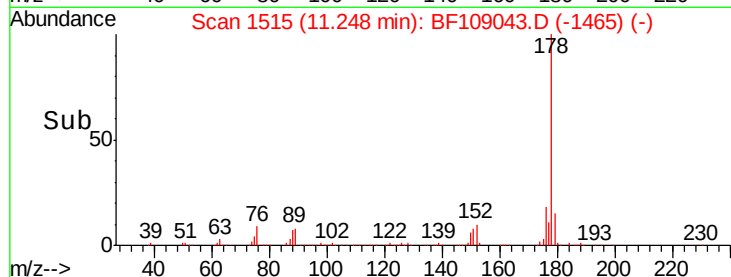
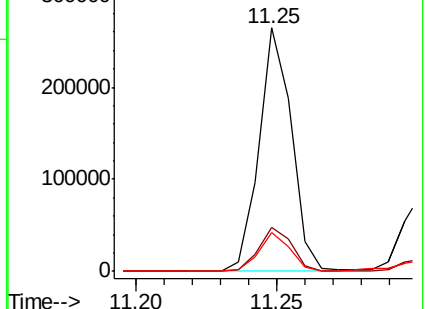
179 15.7 13.0 19.6



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



#71

Anthracene

Concen: 4.437 ng

RT: 11.30 min Scan# 1524

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

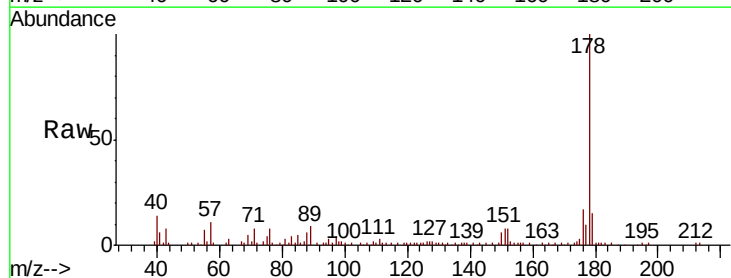
Tgt Ion:178 Resp: 64353

Ion Ratio Lower Upper

178 100

176 17.1 15.4 23.2

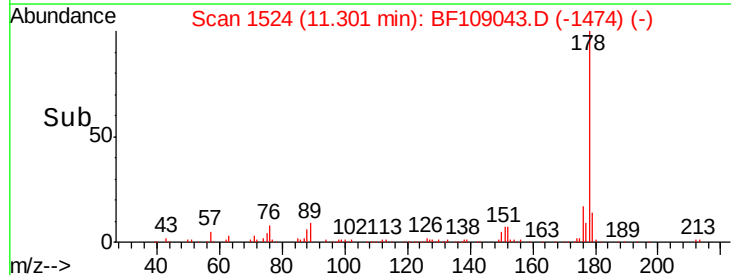
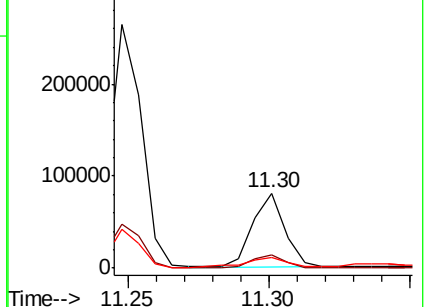
179 14.8 12.6 19.0

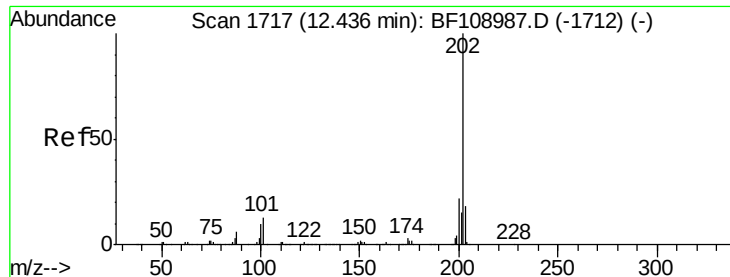


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 20.055 ng

RT: 12.44 min Scan# 1717

Delta R.T. -0.00 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

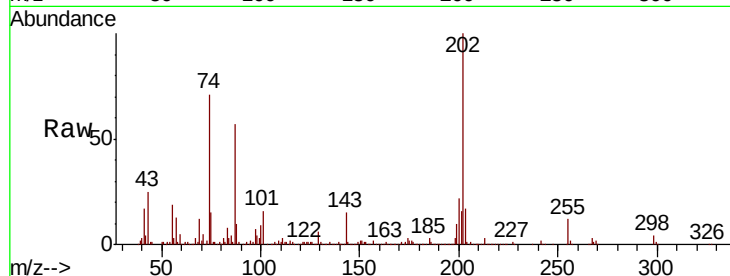
Tot Ion:202 Resp: 302938

Ion Ratio Lower Upper

202 100

101 15.6 0.0 34.1

203 17.5 0.0 38.1

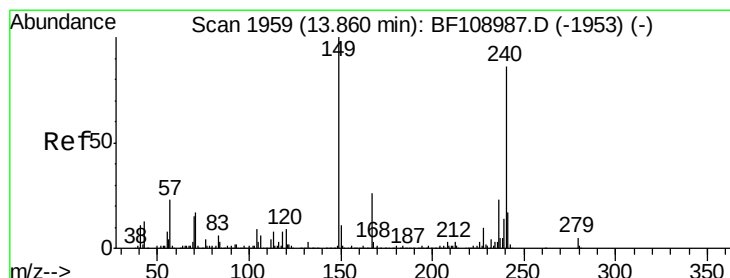
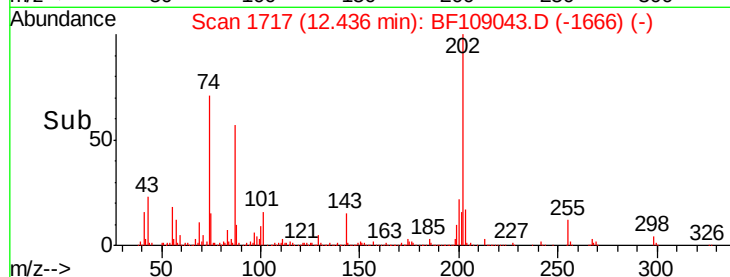
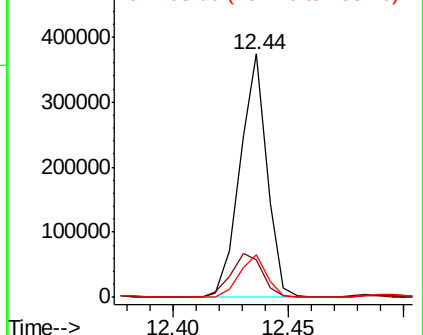


Abundance

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: 13.85 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

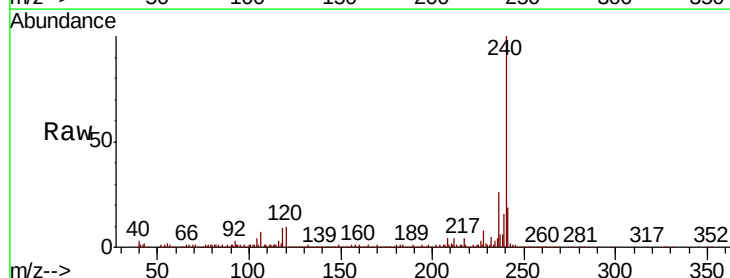
Tgt Ion:240 Resp: 293760

Ion Ratio Lower Upper

240 100

120 10.3 9.5 14.3

236 25.8 20.7 31.1

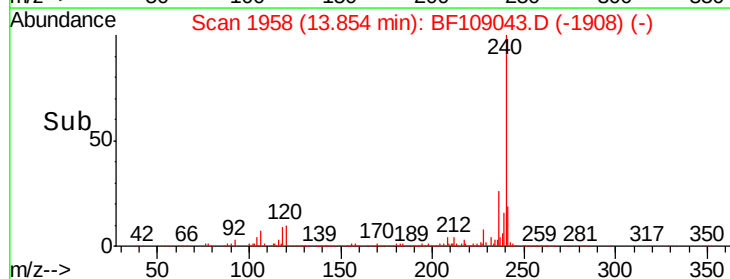
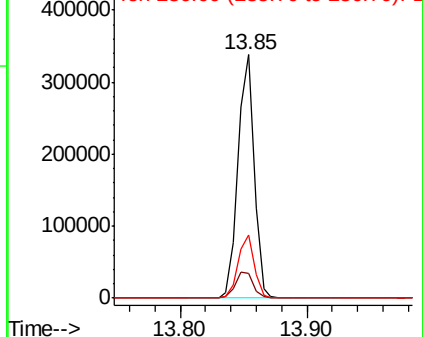


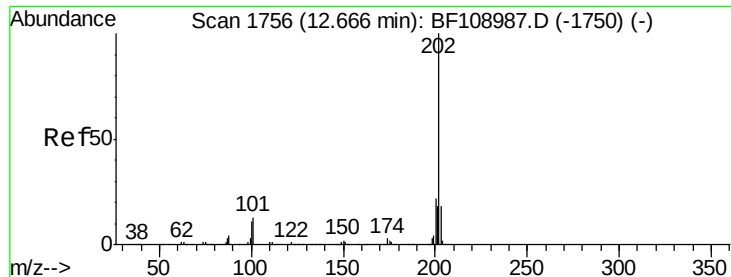
Abundance

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: 15.187 ng

RT: 12.66 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

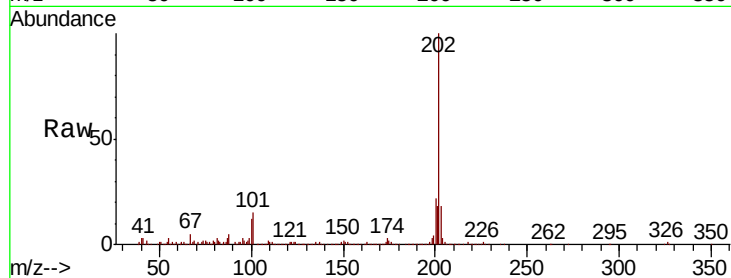
Tot Ion:202 Resp: 331377

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

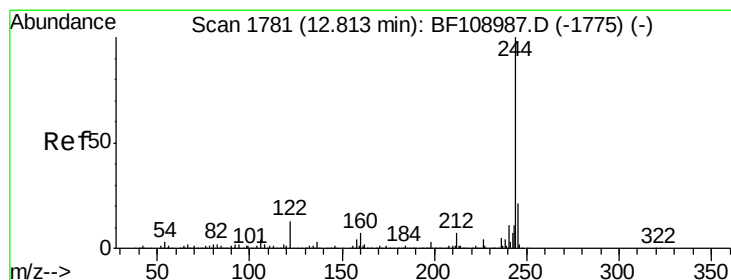
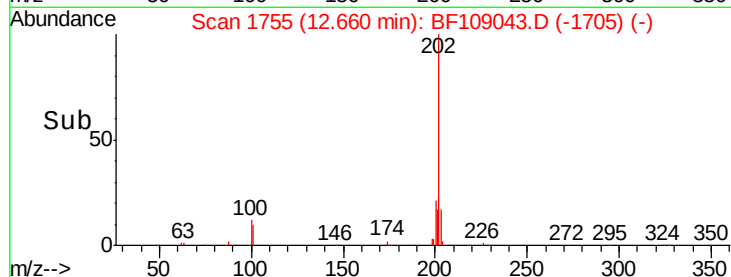
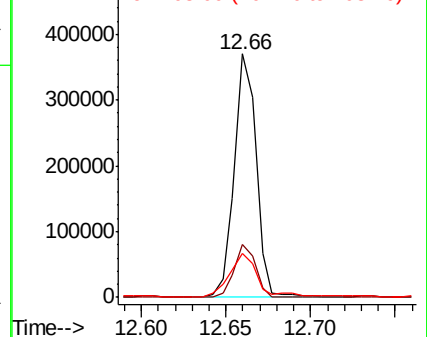
203 18.0 14.3 21.5



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



#78

Terphenyl-d14

Concen: 17.452 ng

RT: 12.81 min Scan# 1781

Delta R.T. -0.00 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

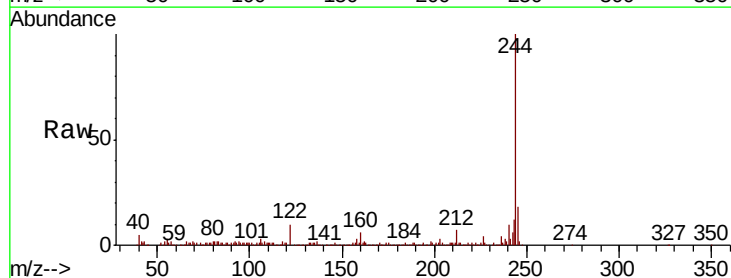
Tgt Ion:244 Resp: 216288

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

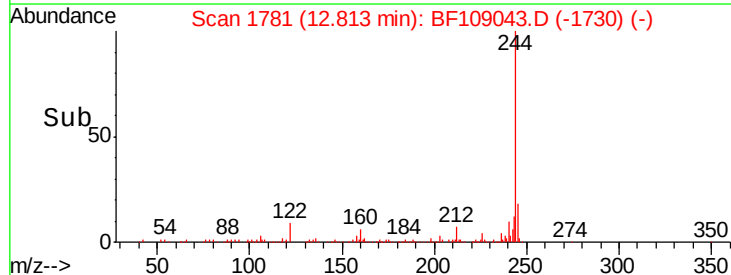
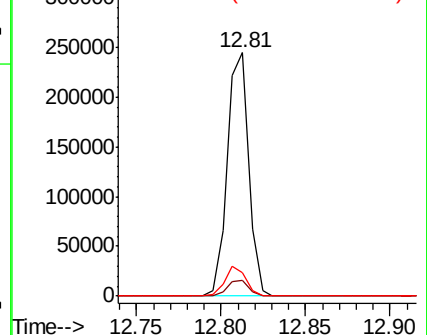
122 9.8 11.0 16.4#

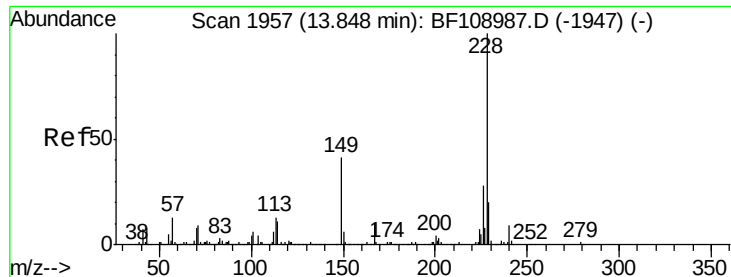


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

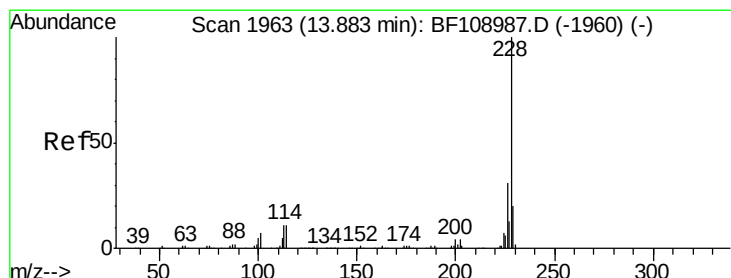
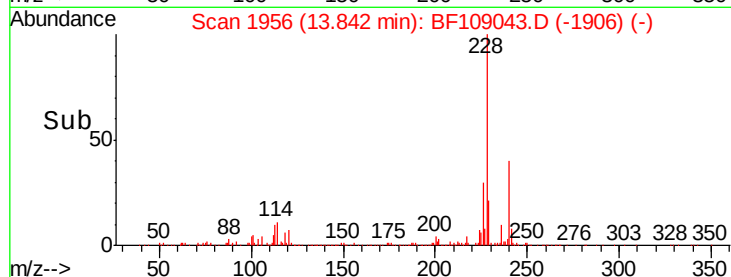
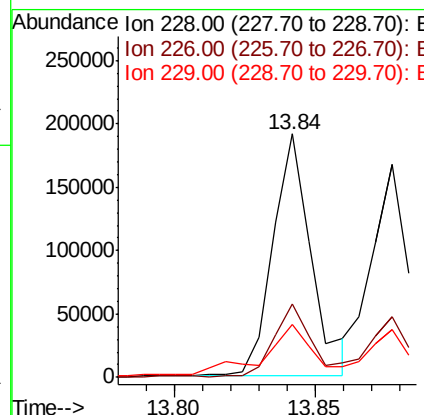
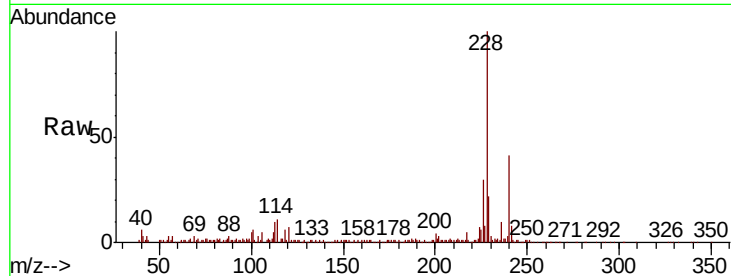




#80
Benzo(a)anthracene
Concen: 10.112 ng
RT: 13.84 min Scan# 1956
Delta R.T. -0.01 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

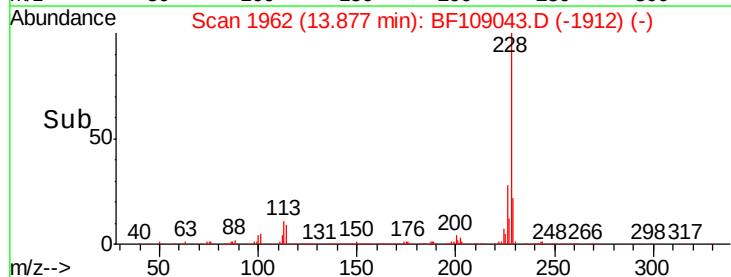
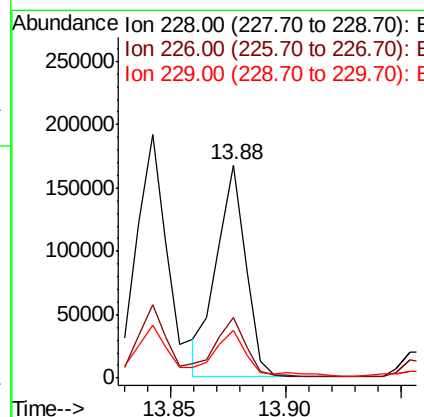
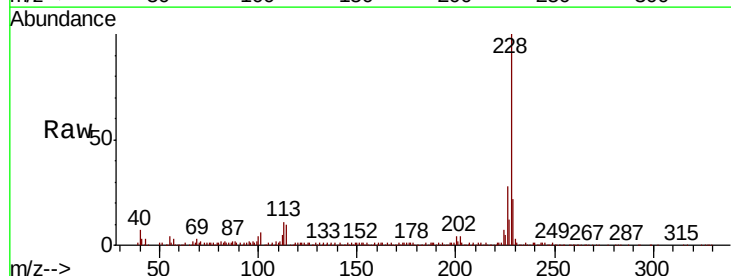
Instrument :
BNA_F
ClientSampleId :
OR-03-091418-A

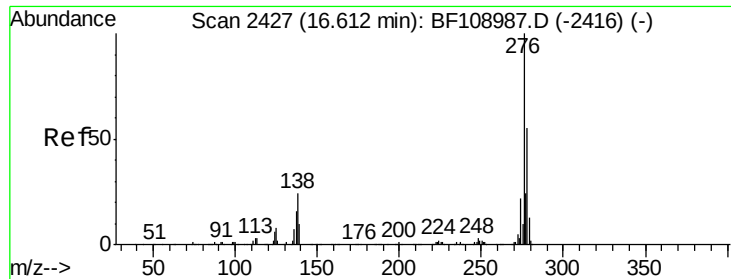
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	21.6	15.8	23.6



#82
Chrysene
Concen: 8.289 ng
RT: 13.88 min Scan# 1962
Delta R.T. -0.01 min
Lab File: BF109043.D
Acq: 17 Sep 2018 12:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	25.0	37.6
229	22.4	16.2	24.4

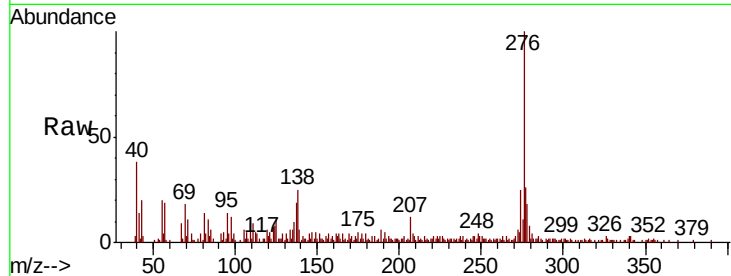




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.014 ng
 RT: 16.60 min Scan# 2425
 Delta R.T. -0.01 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-091418-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.1	25.0	37.6
277	24.7	20.1	30.1

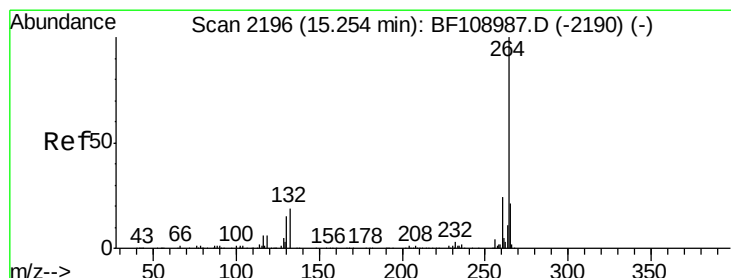
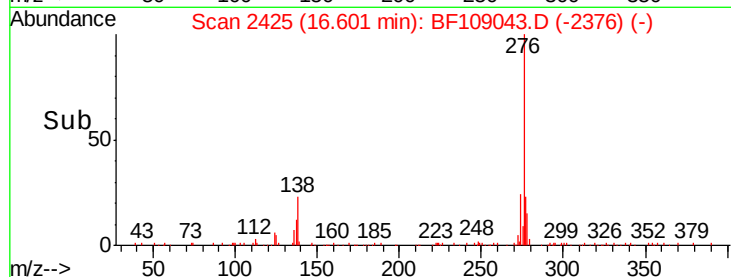
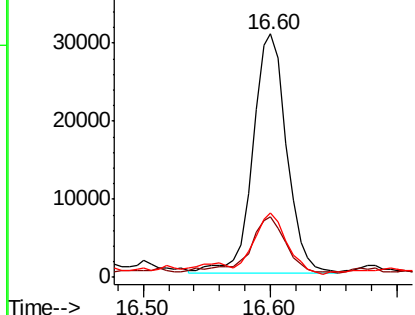


Abundance

Ion 276.00 (275.70 to 276.70): E

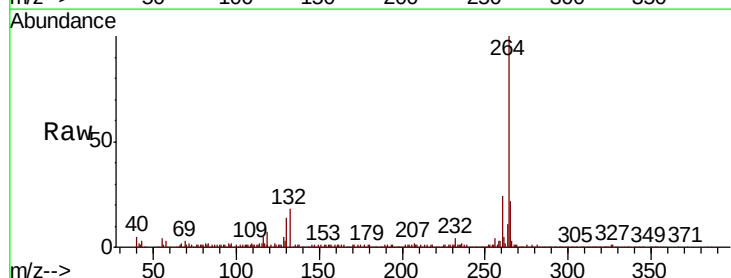
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.25 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: BF109043.D
 Acq: 17 Sep 2018 12:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.4	17.5	26.3

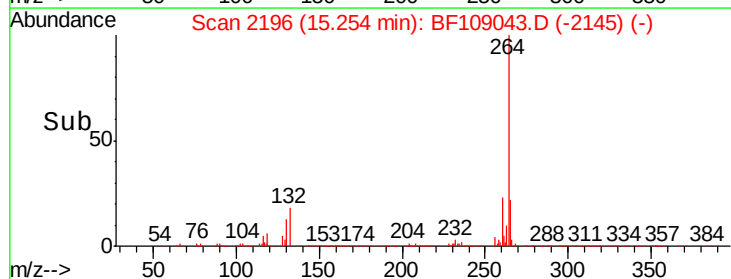
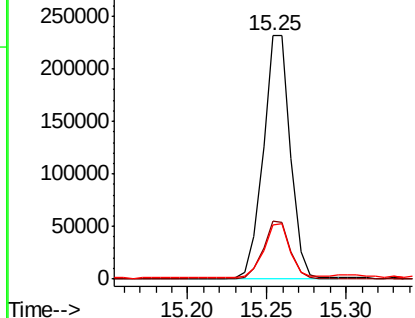


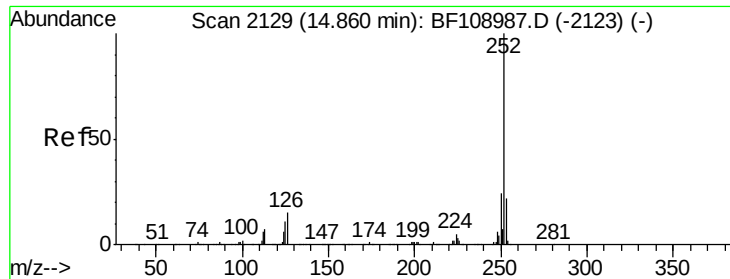
Abundance

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: 15.002 ng

RT: 14.86 min Scan# 2129

Delta R.T. -0.00 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

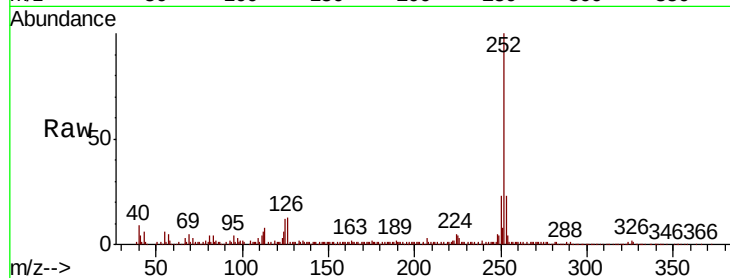
Tot Ion:252 Resp: 229634

Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.6

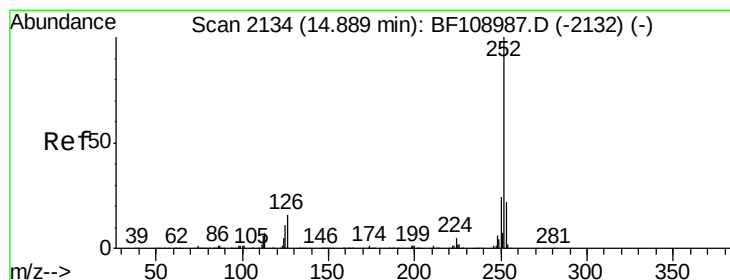
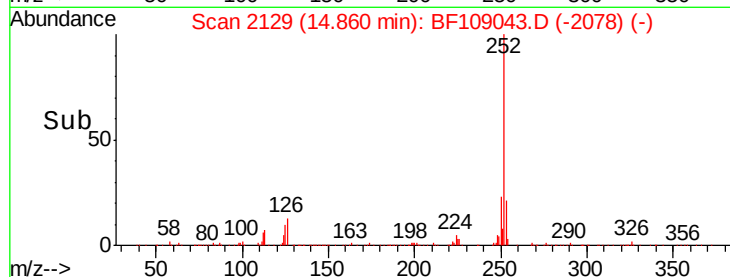
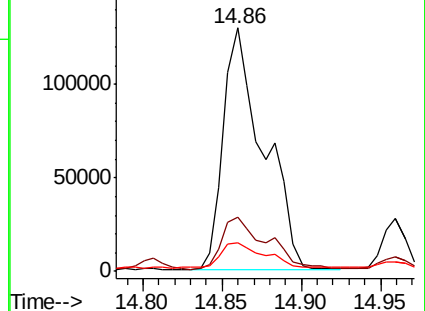
125 11.7 9.0 13.6



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



#88

Benzo(k)fluoranthene

Concen: 16.062 ng

RT: 14.86 min Scan# 2129

Delta R.T. -0.03 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

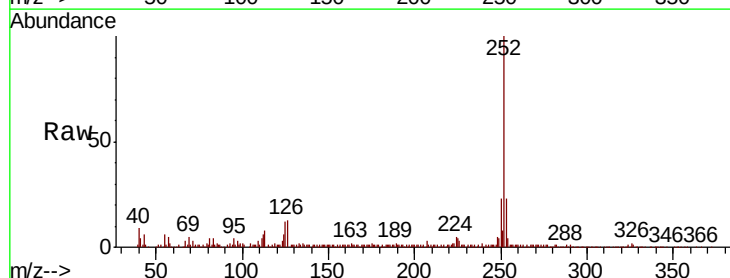
Tgt Ion:252 Resp: 229634

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

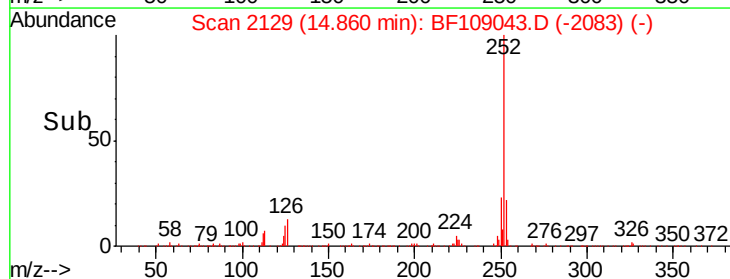
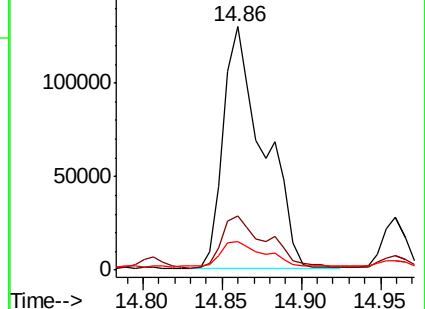
125 11.7 10.2 15.2

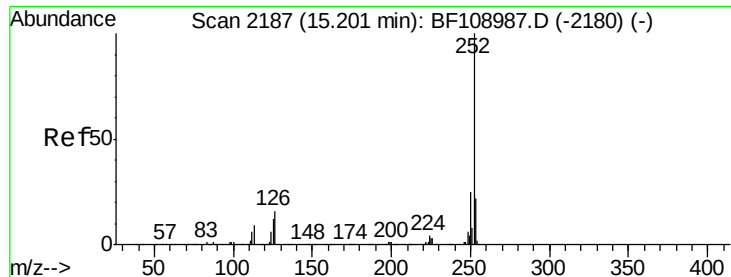


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.077 ng

RT: 15.19 min Scan# 2186

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

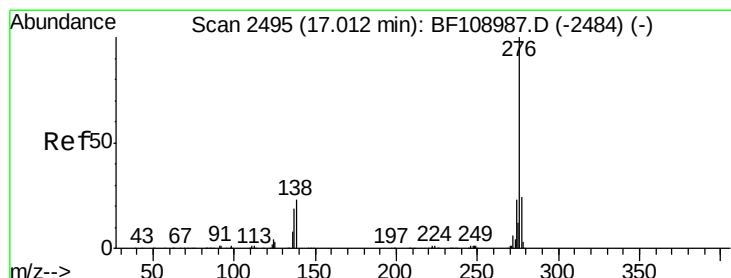
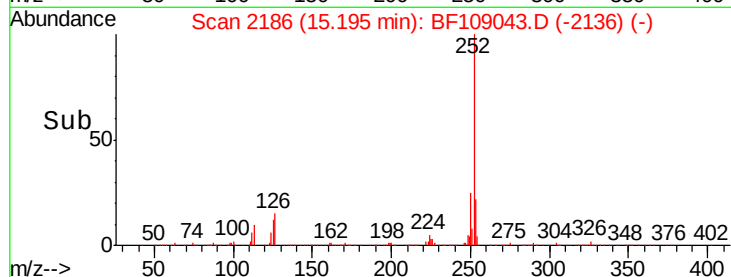
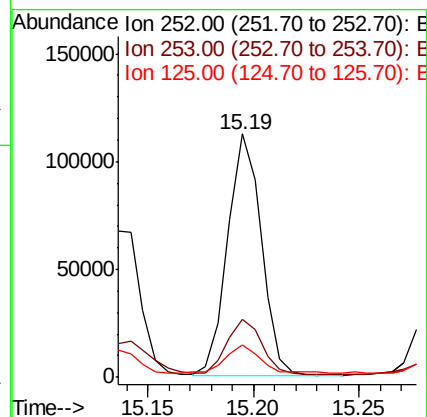
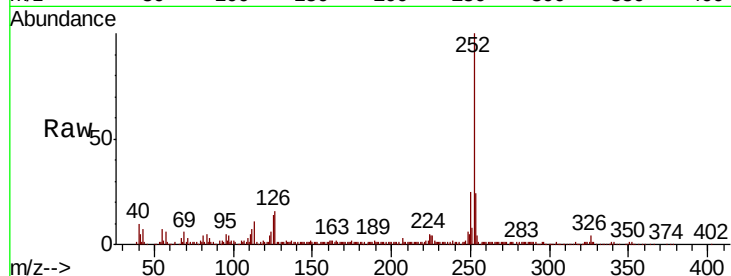
Instrument :

BNA_F

ClientSampleId :

OR-03-091418-A

Tot Ion:	252	Resp:	123392
Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.1	25.7
125	13.6	9.8	14.6



#91

Benzo(g,h,i)perylene

Concen: 4.560 ng

RT: 17.01 min Scan# 2494

Delta R.T. -0.01 min

Lab File: BF109043.D

Acq: 17 Sep 2018 12:58

Tgt Ion:	276	Resp:	52061
Ion	Ratio	Lower	Upper
276	100		
277	27.5	17.9	26.9#
138	23.4	21.8	32.8

