

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121918\
 Data File : BF111615.D
 Acq On : 20 Dec 2018 2:47
 Operator : JU/SJ
 Sample : J6465-06 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EB08_1.5-3.5

Quant Time: Dec 20 04:42:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 19 17:39:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	198648	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	717349	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	325456	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	547979	20.00	ng	0.00
76) Chrysene-d12	14.04	240	483394	20.00	ng	0.00
87) Perylene-d12	15.52	264	334931	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	228796	19.63	ng	-0.01
7) Phenol-d6	6.51	99	296560	20.00	ng	-0.01
23) Nitrobenzene-d5	7.45	82	157219	12.76	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	63646	16.55	ng	-0.01
45) 2-Fluorobiphenyl	9.25	172	337890	15.13	ng	0.00
79) Terphenyl-d14	12.99	244	333538	13.09	ng	0.00

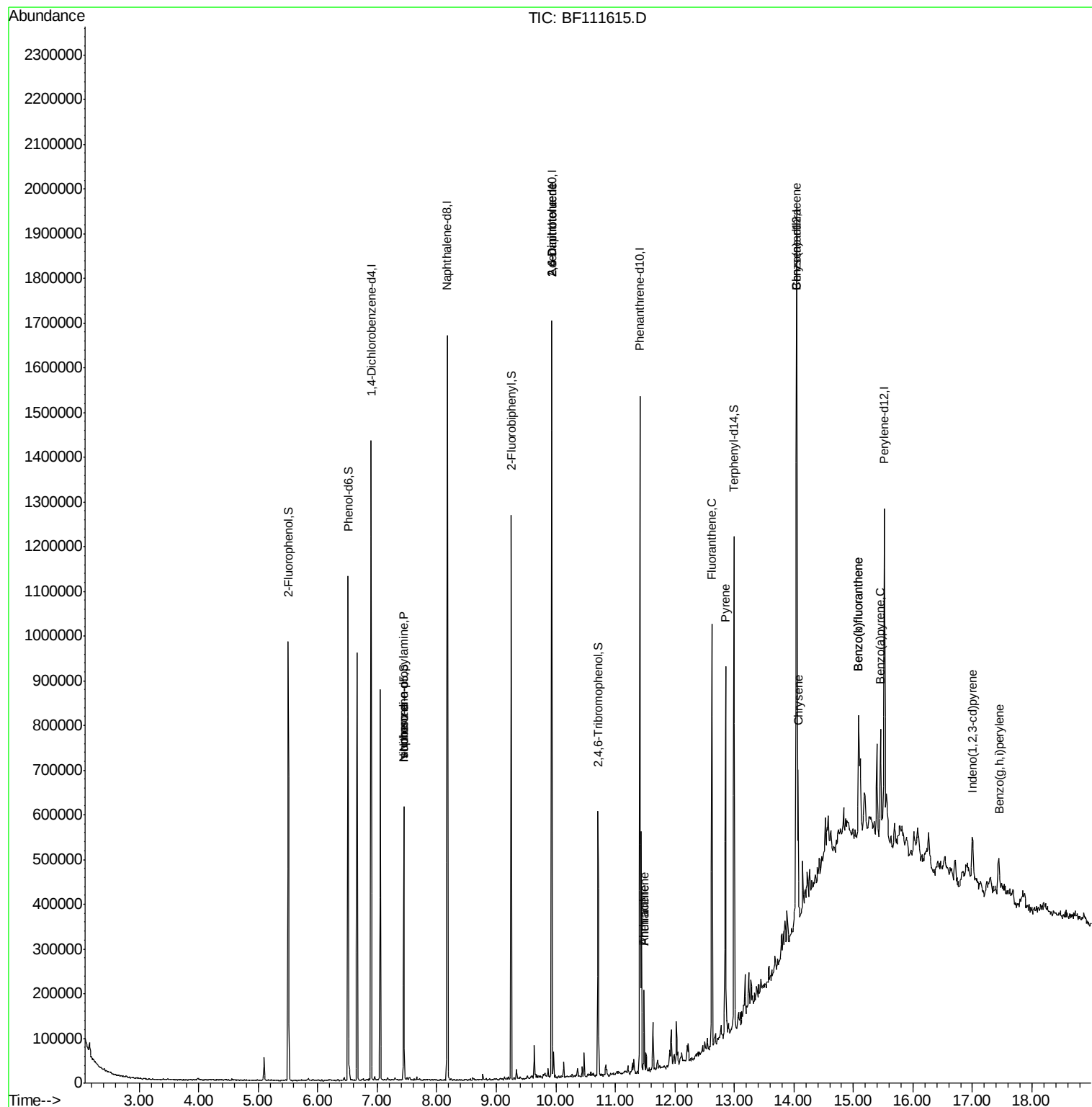
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.45	70	20866	2.118	ng	# 83
25) Isophorone	7.45	82	157023	7.177	ng	# 64
51) 2,6-Dinitrotoluene	9.93	165	41601	8.766	ng	# 29
57) 2,4-Dinitrotoluene	9.93	165	41601	7.294	ng	# 25
71) Phenanthrene	11.49	178	62594	2.154	ng	95
72) Anthracene	11.49	178	62594	2.146	ng	96
75) Fluoranthene	12.62	202	367588	12.491	ng	95
78) Pyrene	12.85	202	313656	9.188	ng	97
81) Benzo(a)anthracene	14.04	228	152483	5.527	ng	98
83) Chrysene	14.07	228	144409	5.326	ng	98
86) Indeno(1,2,3-cd)pyrene	17.00	276	74724	3.242	ng	# 86
88) Benzo(b)fluoranthene	15.09	252	217642	11.119	ng	100
89) Benzo(k)fluoranthene	15.09	252	217642	11.679	ng	99
90) Benzo(a)pyrene	15.46	252	117944	6.632	ng	96
92) Benzo(g,h,i)perylene	17.44	276	74837	4.921	ng	# 88

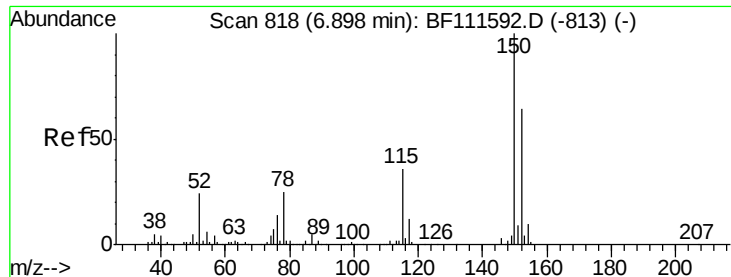
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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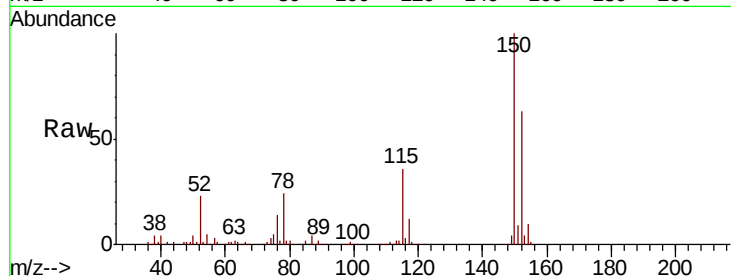


#1

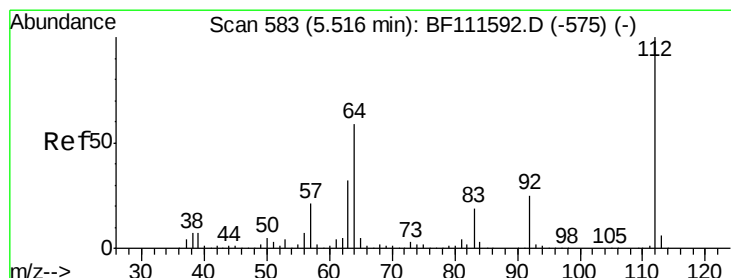
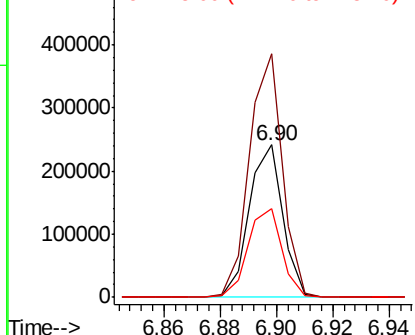
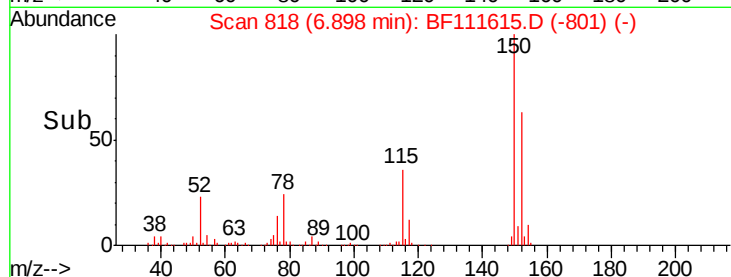
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.90 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Instrument :
 BNA_F
 ClientSampleId :
 EB08_1.5-3.5

Tgt Ion:152 Resp: 198648
 Ion Ratio Lower Upper
 152 100
 150 159.6 126.6 189.8
 115 57.9 50.7 76.1



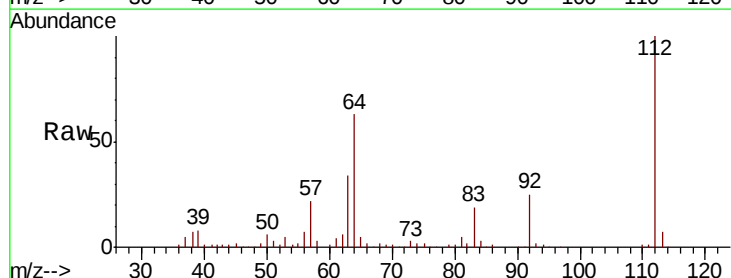
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



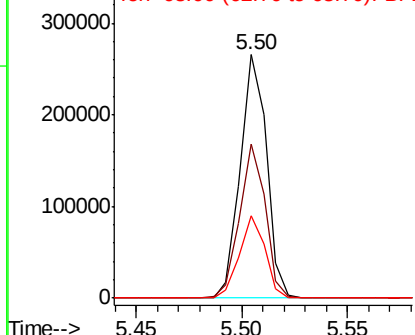
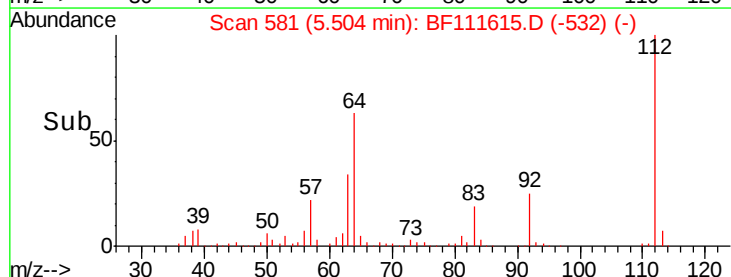
#5

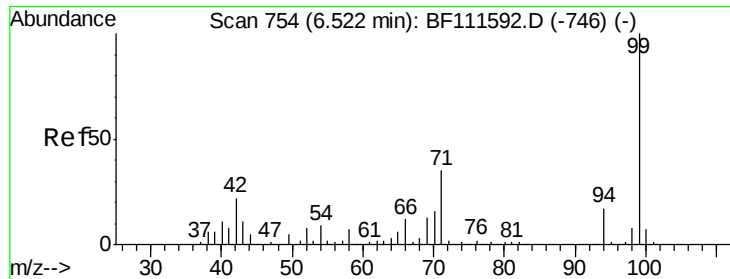
2-Fluorophenol
 Concen: 19.632 ng
 RT: 5.50 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Tgt Ion:112 Resp: 228796
 Ion Ratio Lower Upper
 112 100
 64 63.2 51.8 77.6
 63 33.9 26.8 40.2



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: 19.995 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

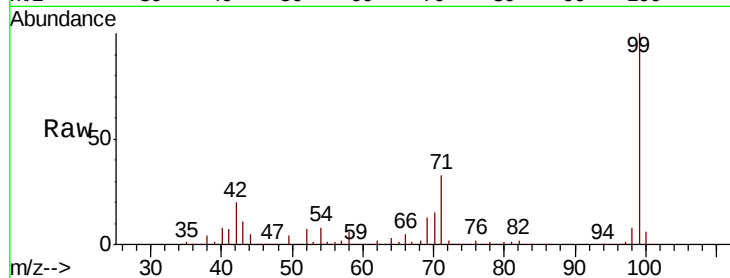
Tgt Ion: 99 Resp: 296560

Ion Ratio Lower Upper

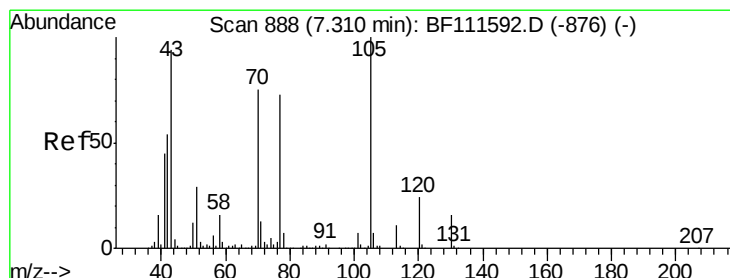
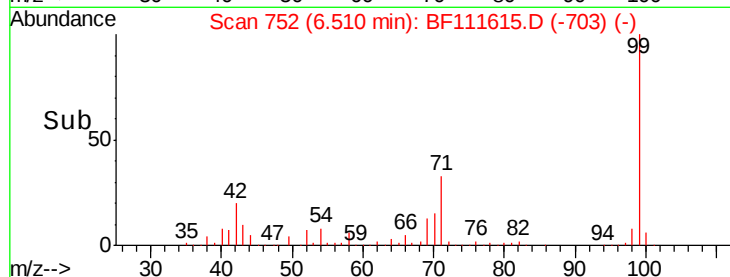
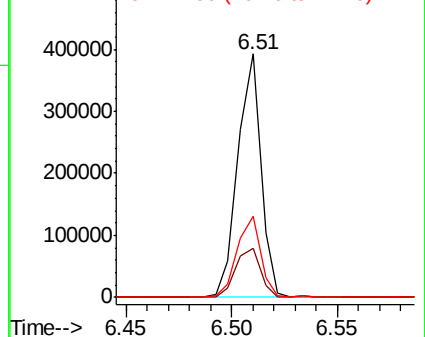
99 100

42 20.4 17.4 26.0

71 33.3 26.1 39.1



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: 2.118 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.14 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Tgt Ion: 70 Resp: 20866

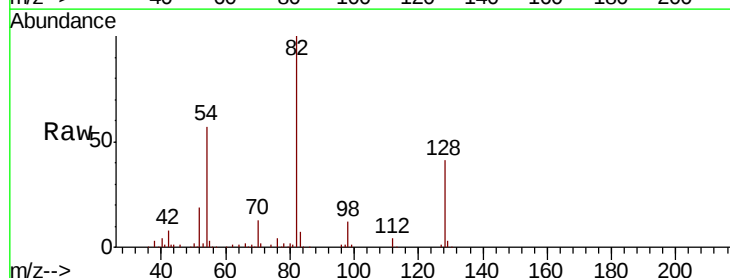
Ion Ratio Lower Upper

70 100

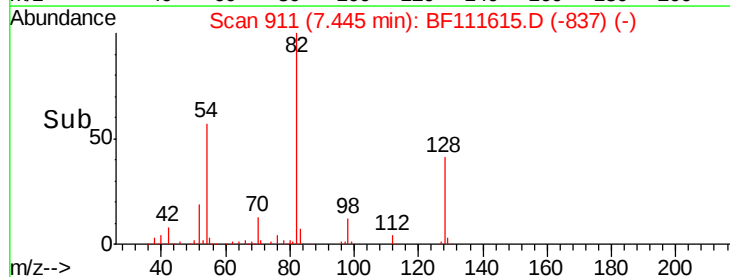
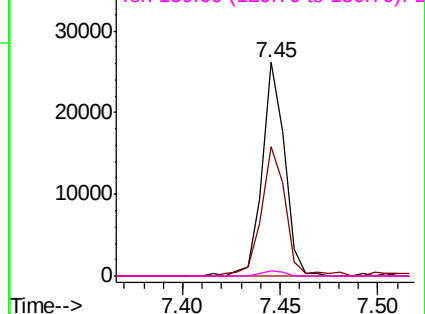
42 60.8 53.2 79.8

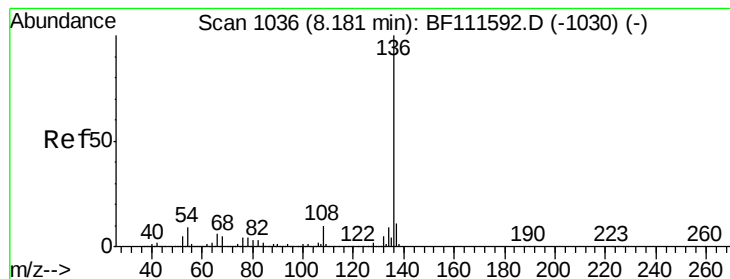
101 0.0 8.2 12.4#

130 2.2 18.1 27.1#



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: 8.18 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

Tgt Ion: 136 Resp: 717349

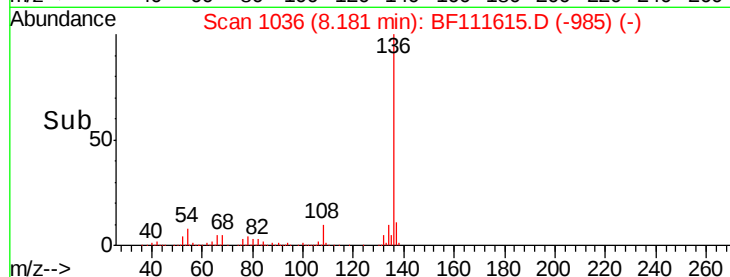
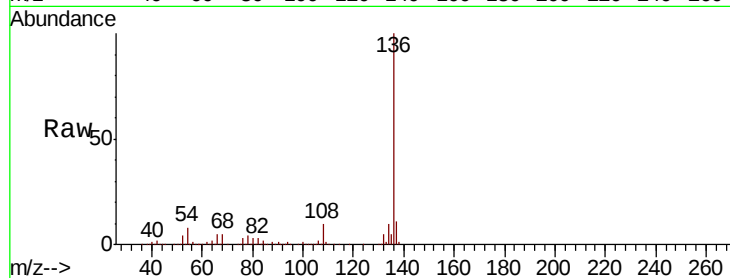
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 8.0 7.7 11.5

68 5.2 4.9 7.3



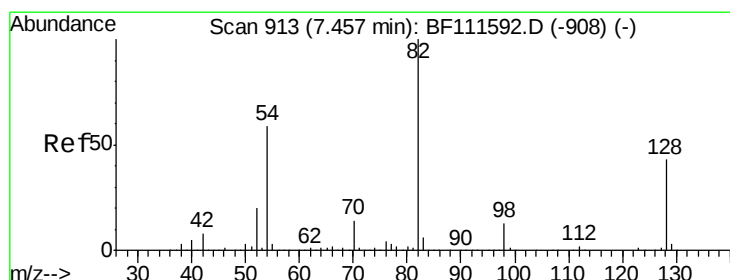
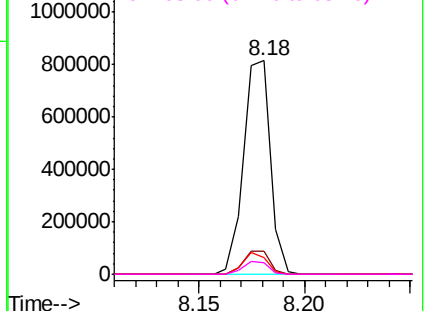
Abundance

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: 12.757 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

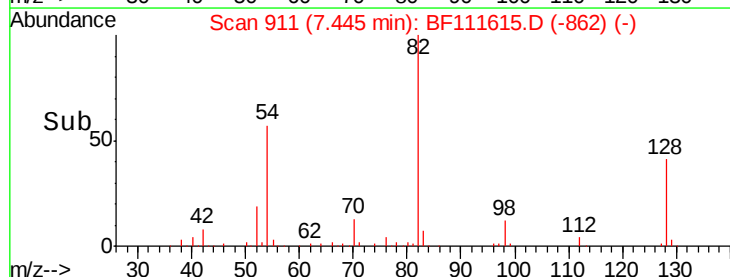
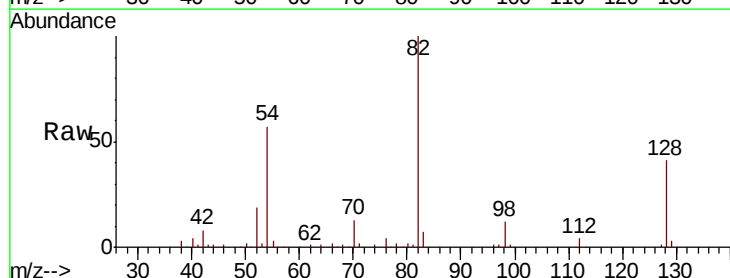
Tgt Ion: 82 Resp: 157219

Ion Ratio Lower Upper

82 100

128 41.2 37.4 56.2

54 56.9 47.6 71.4

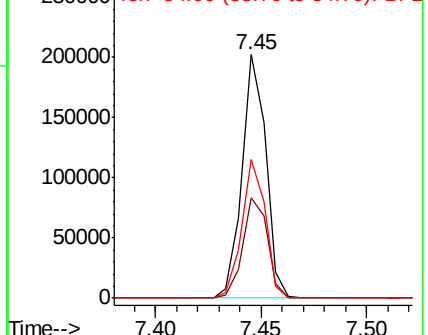


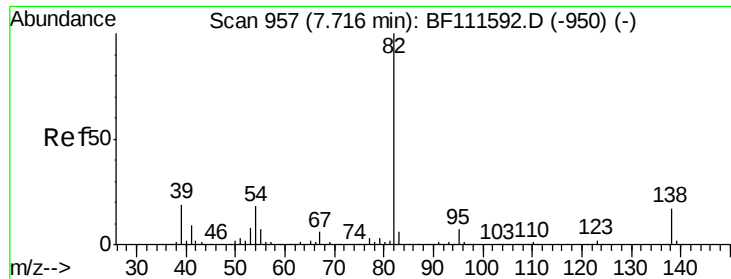
Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

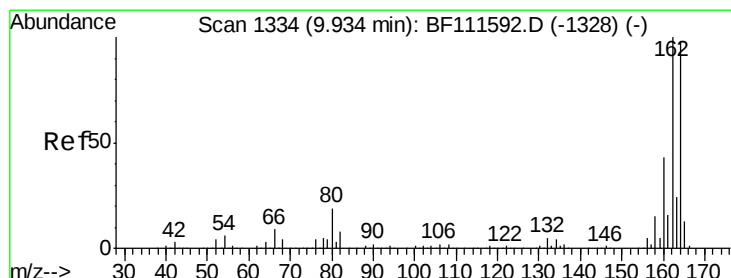
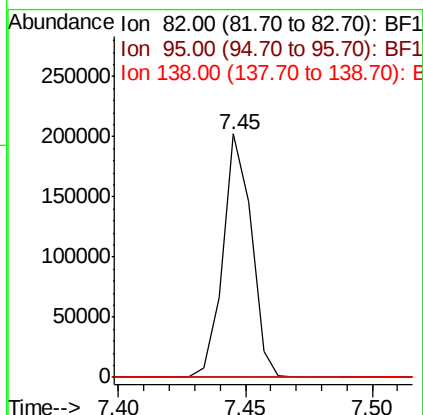
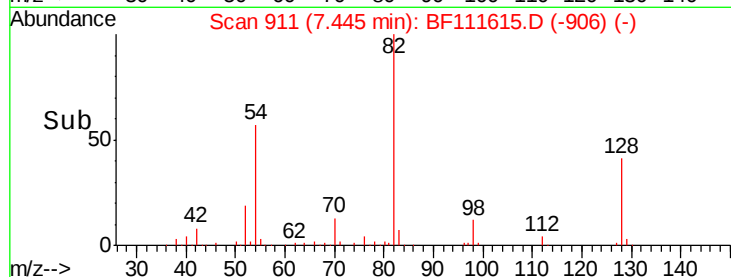
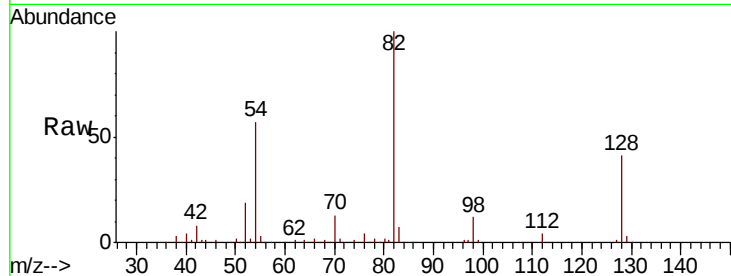




#25
Isophorone
Concen: 7.177 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.27 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

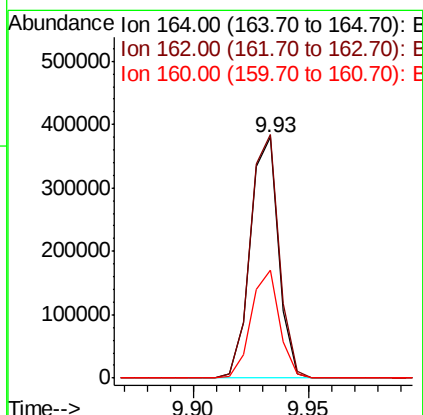
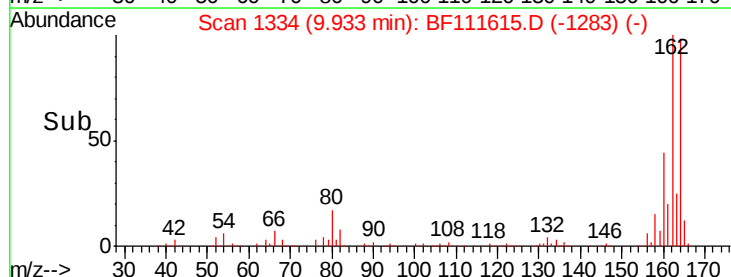
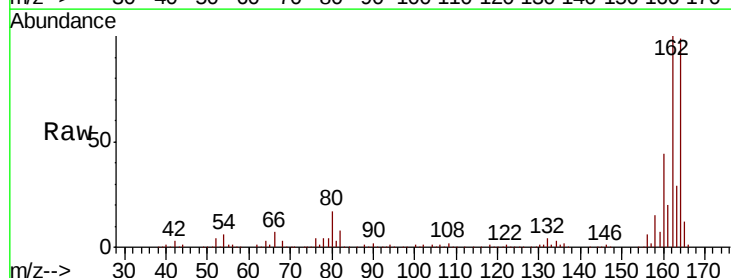
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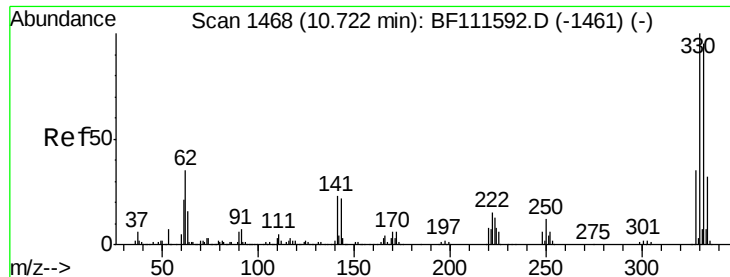
Tgt Ion: 82 Resp: 157023
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 15.1 22.7#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.00 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

Tgt Ion: 164 Resp: 325456
Ion Ratio Lower Upper
164 100
162 101.1 81.4 122.0
160 44.8 35.7 53.5

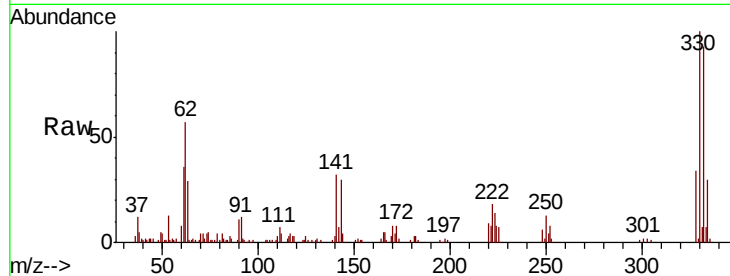




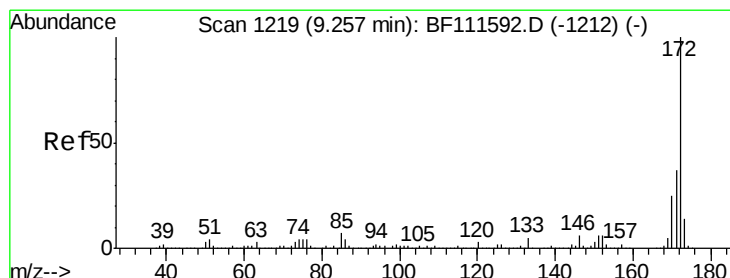
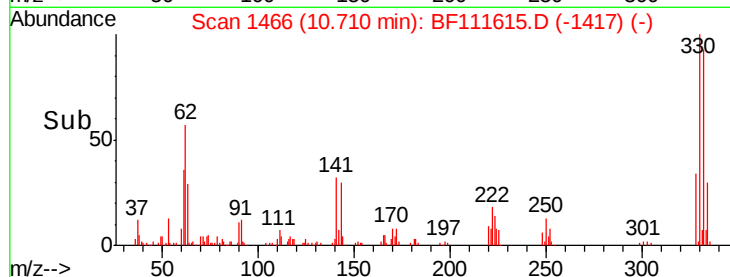
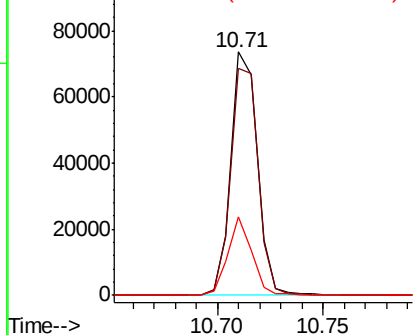
#42
 2,4,6-Tribromophenol
 Concen: 16.551 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Instrument :
 BNA_F
 ClientSampleId :
 EB08_1.5-3.5

Tgt Ion:330 Resp: 63646
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.0 114.0
 141 29.1 31.0 46.6#

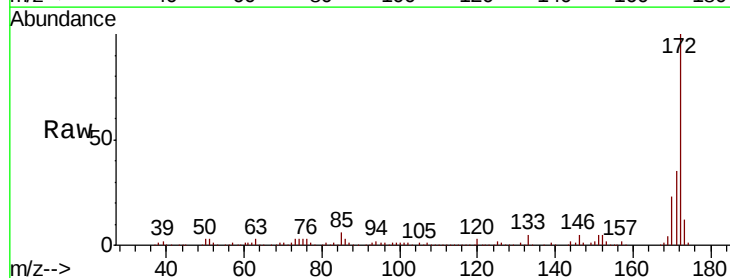


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

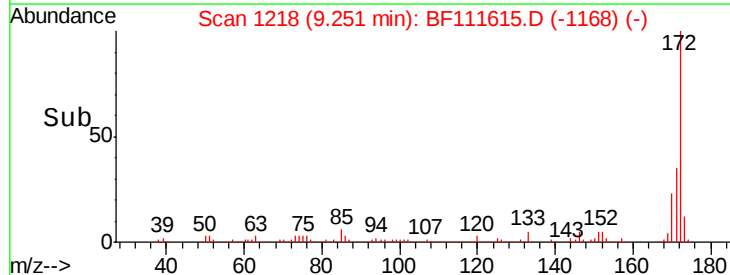
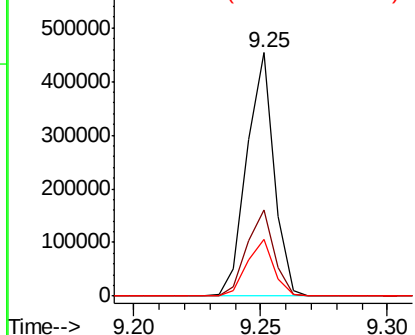


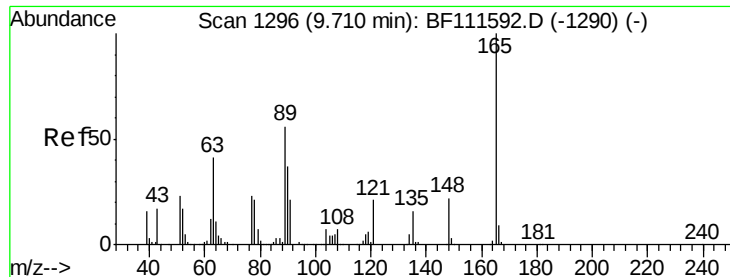
#45
 2-Fluorobiphenyl
 Concen: 15.133 ng
 RT: 9.25 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Tgt Ion:172 Resp: 337890
 Ion Ratio Lower Upper
 172 100
 171 35.3 33.0 49.4
 170 23.2 22.3 33.5



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

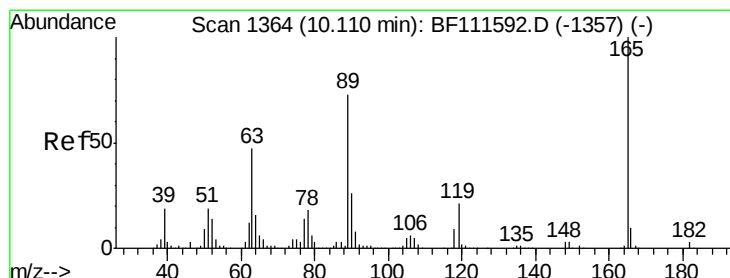
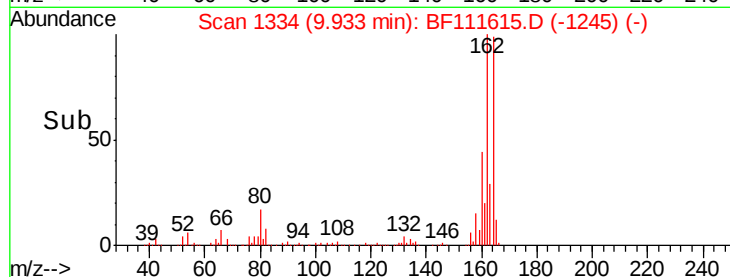
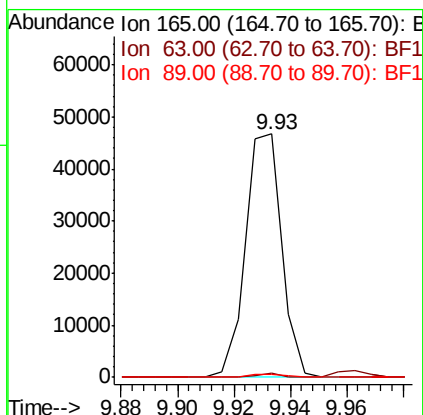
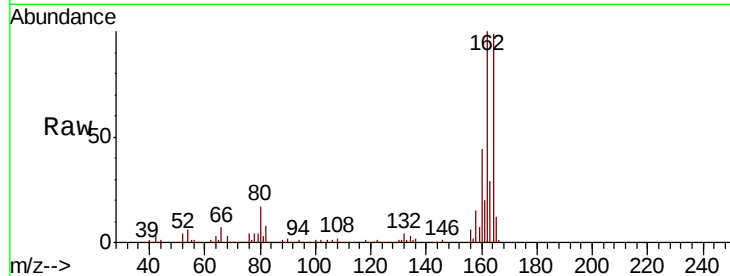




#51
 2,6-Dinitrotoluene
 Concen: 8.766 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. 0.22 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

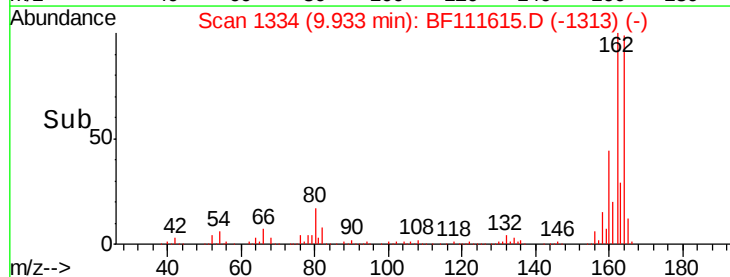
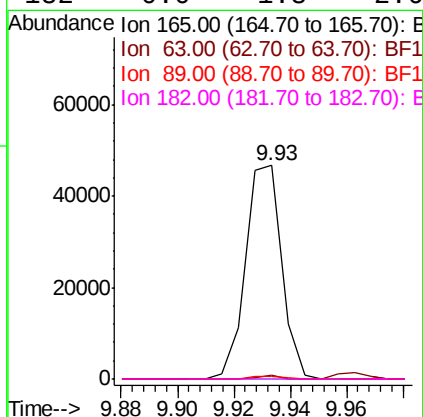
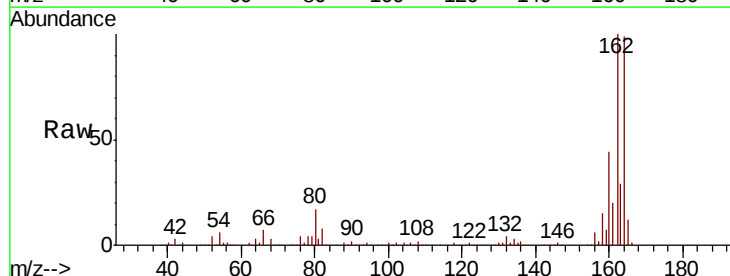
Instrument :
 BNA_F
 ClientSampleId :
 EB08_1.5-3.5

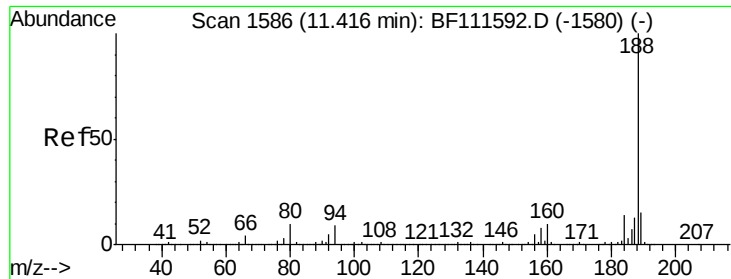
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	40.5	60.7#
89	1.4	40.0	60.0#



#57
 2,4-Dinitrotoluene
 Concen: 7.294 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. -0.18 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.6	52.0#
89	1.4	56.2	84.4#
182	0.0	1.8	2.6#

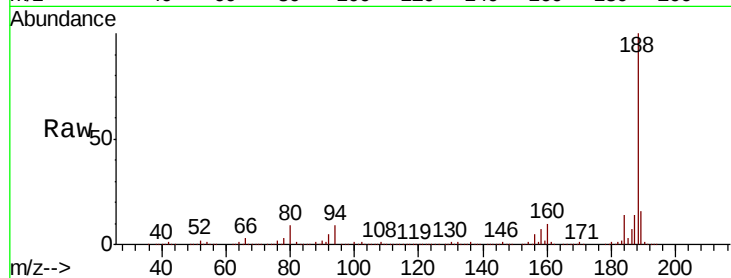




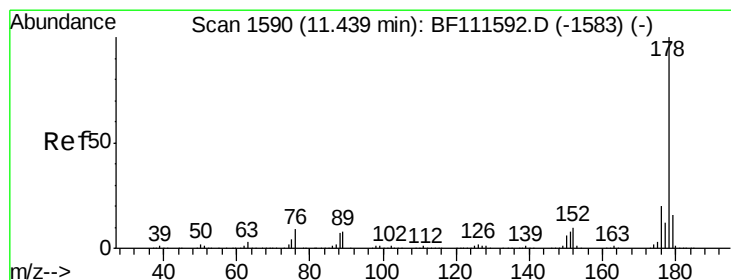
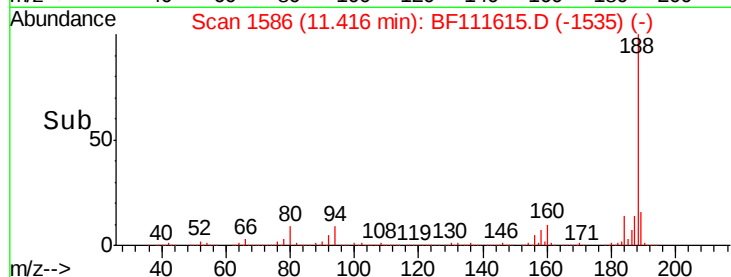
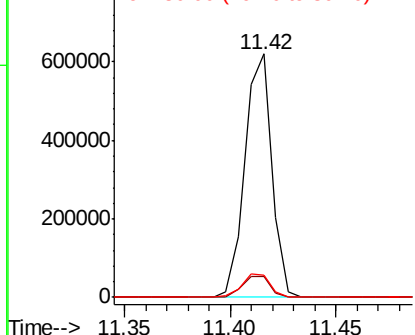
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.00 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

Instrument :
BNA_F
ClientSampleId :
EB08_1.5-3.5

Tgt Ion:188 Resp: 547979
Ion Ratio Lower Upper
188 100
94 8.8 9.6 14.4#
80 8.9 9.8 14.6#

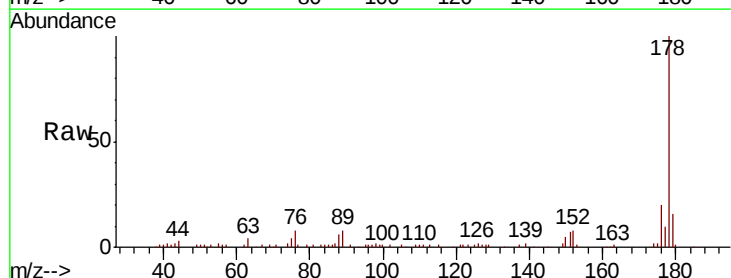


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

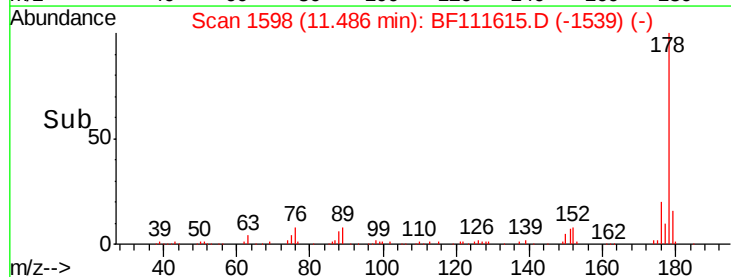
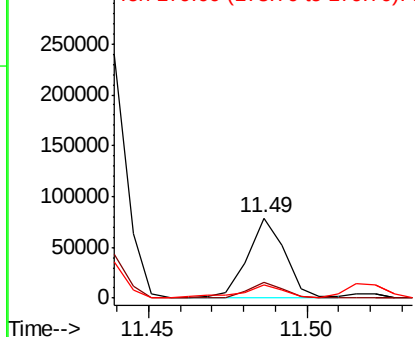


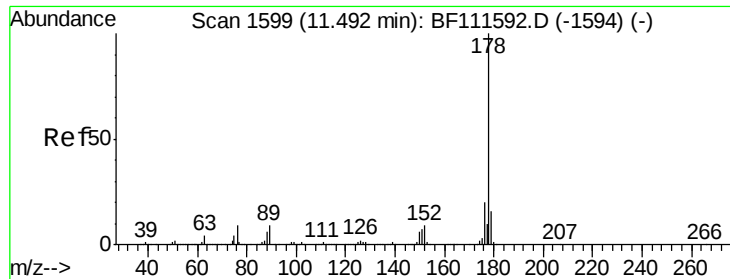
#71
Phenanthrene
Concen: 2.154 ng
RT: 11.49 min Scan# 1598
Delta R.T. 0.05 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

Tgt Ion:178 Resp: 62594
Ion Ratio Lower Upper
178 100
176 19.5 18.1 27.1
179 16.0 14.0 21.0



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





#72

Anthracene

Concen: 2.146 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

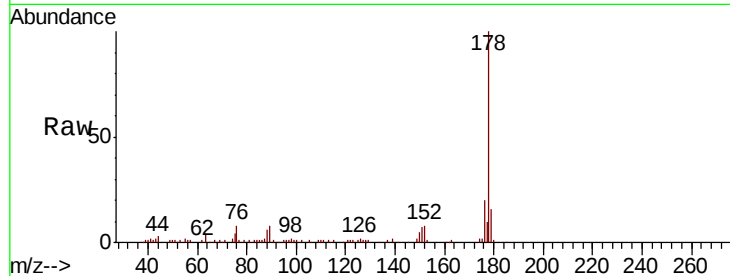
Tgt Ion:178 Resp: 62594

Ion Ratio Lower Upper

178 100

176 19.5 17.2 25.8

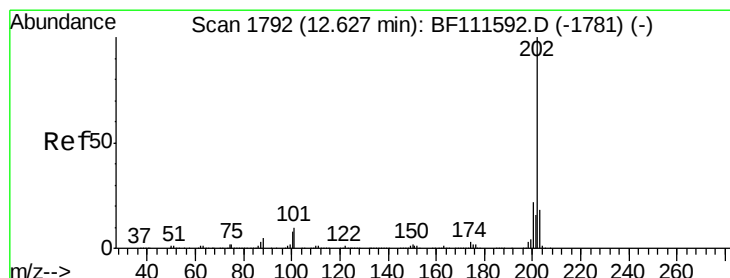
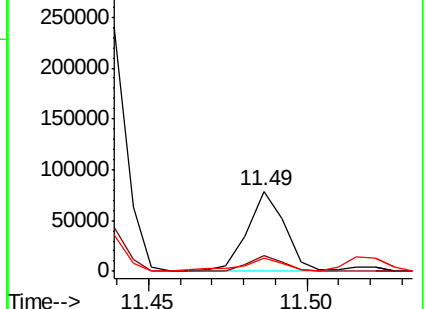
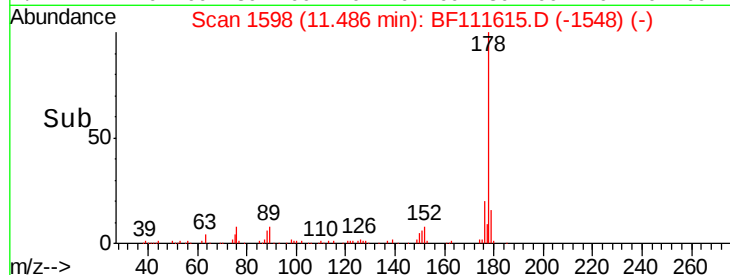
179 16.0 13.8 20.8



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



#75

Fluoranthene

Concen: 12.491 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

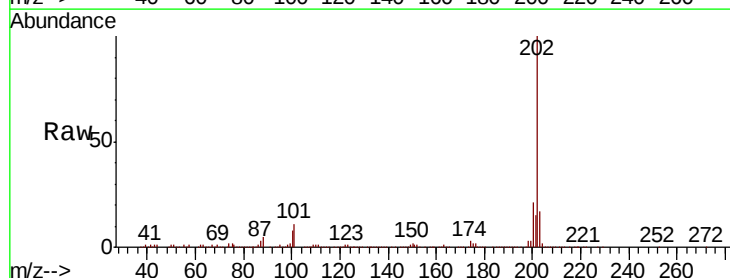
Tgt Ion:202 Resp: 367588

Ion Ratio Lower Upper

202 100

101 10.8 0.0 33.8

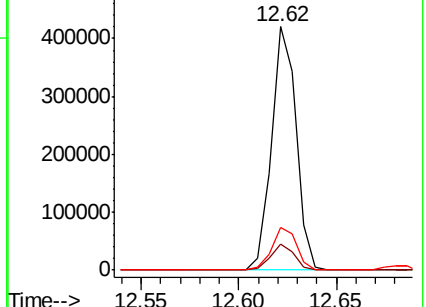
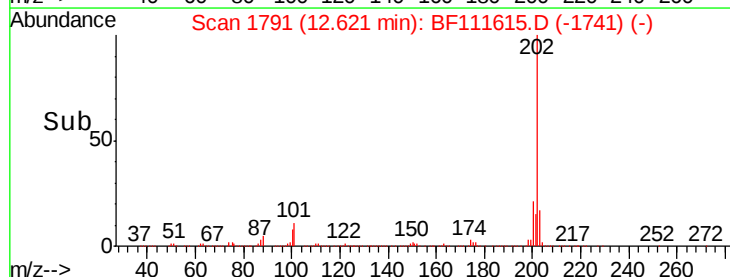
203 17.4 0.0 38.6

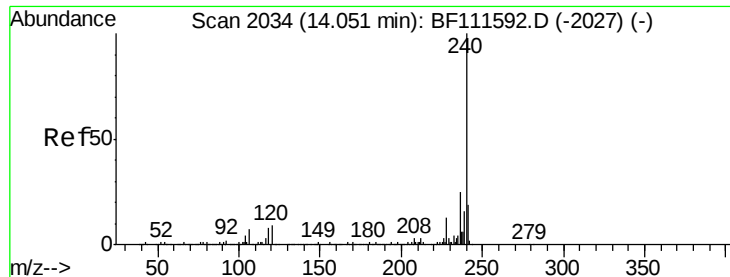


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

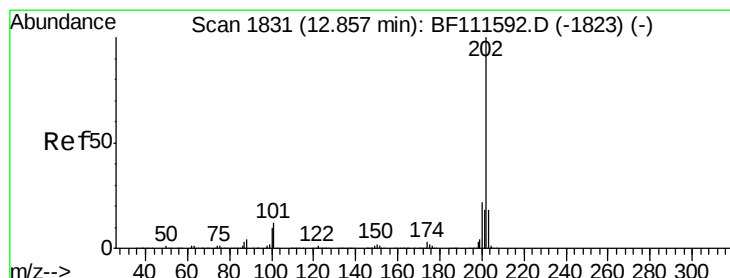
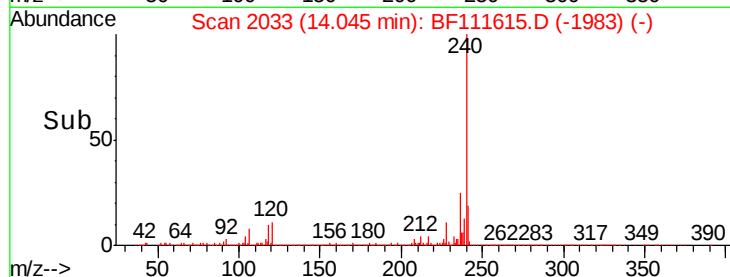
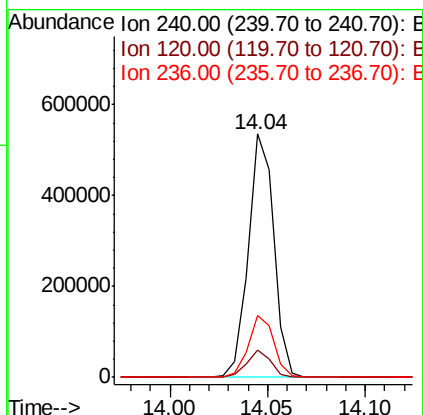
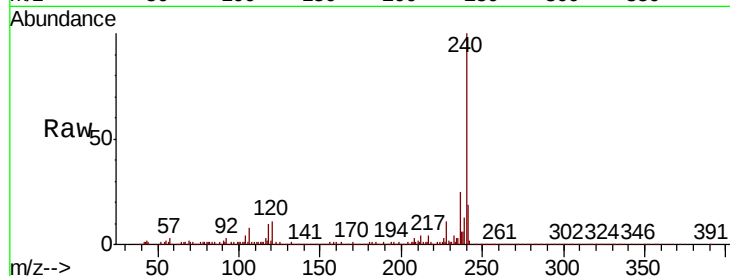
Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

Tgt Ion:	240	Resp:	483394
Ion	Ratio	Lower	Upper
240	100		
120	11.0	12.2	18.2#
236	25.4	20.2	30.2



#78

Pyrene

Concen: 9.188 ng

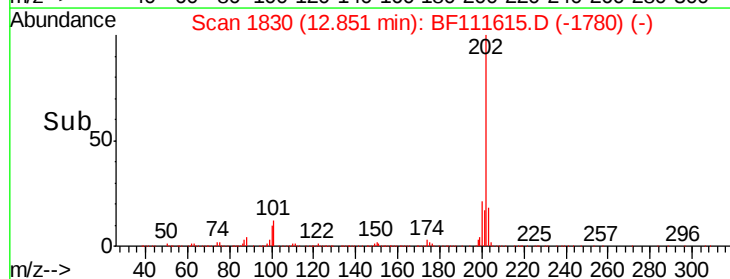
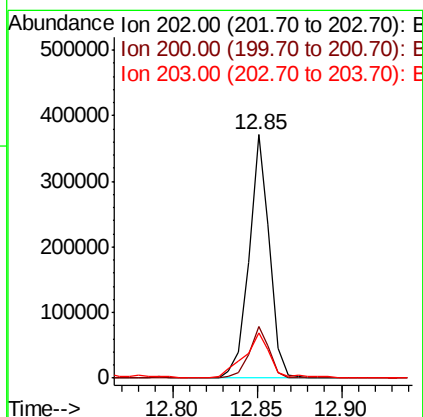
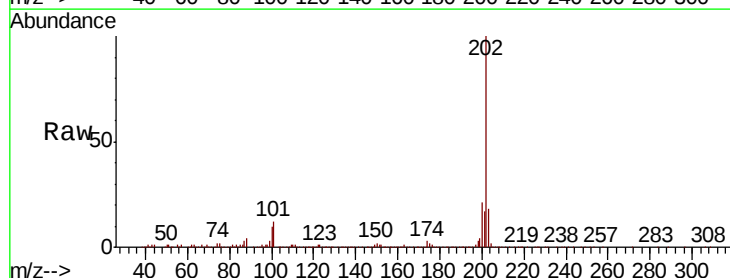
RT: 12.85 min Scan# 1830

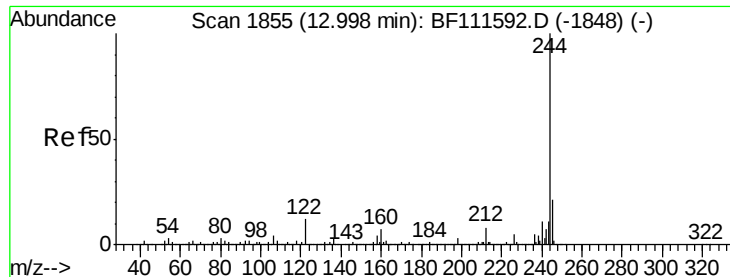
Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Tgt Ion:	202	Resp:	313656
Ion	Ratio	Lower	Upper
202	100		
200	21.1	19.0	28.4
203	18.5	15.2	22.8





#79

Terphenyl-d14

Concen: 13.085 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

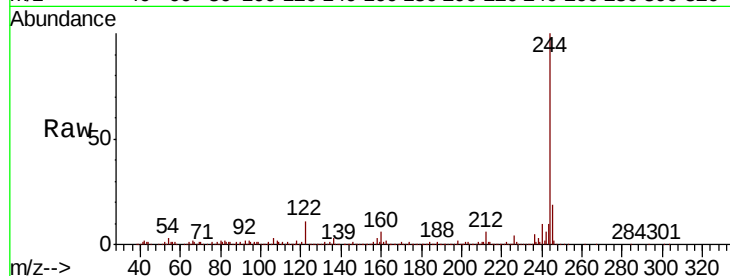
Tgt Ion:244 Resp: 333538

Ion Ratio Lower Upper

244 100

212 6.1 5.7 8.5

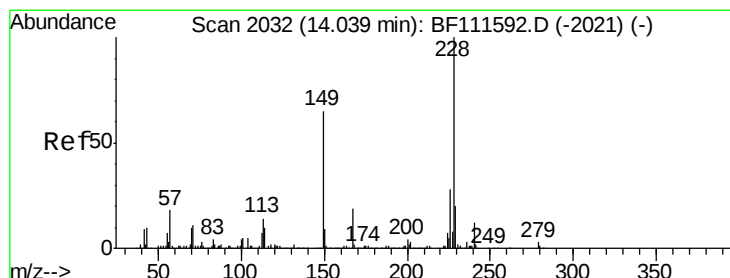
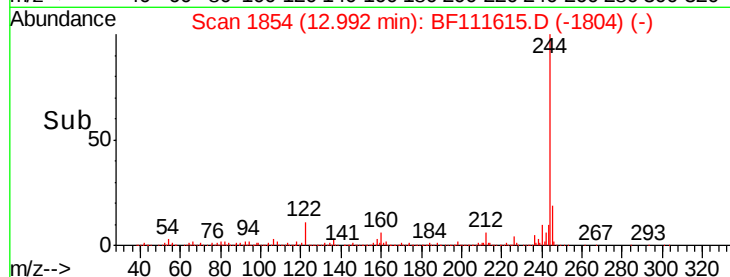
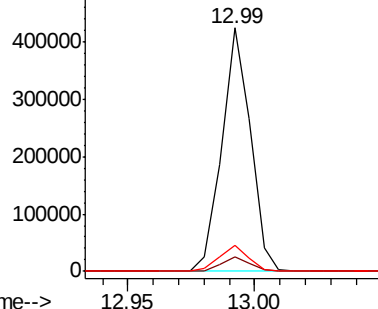
122 10.5 13.1 19.7#



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: 5.527 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

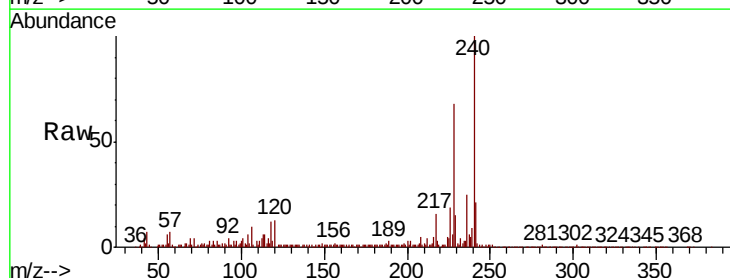
Tgt Ion:228 Resp: 152483

Ion Ratio Lower Upper

228 100

226 27.6 22.6 34.0

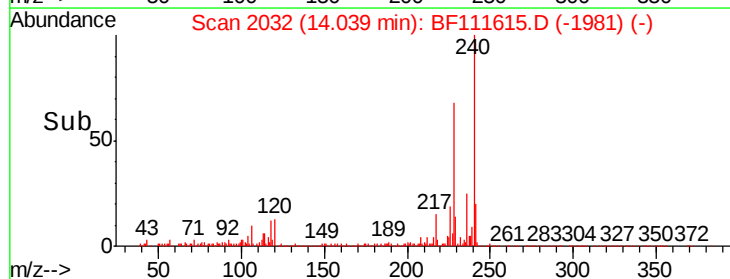
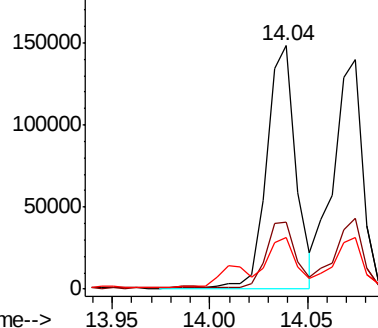
229 21.4 16.3 24.5

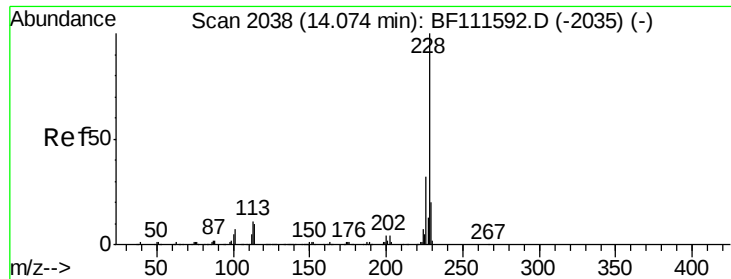


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 5.326 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

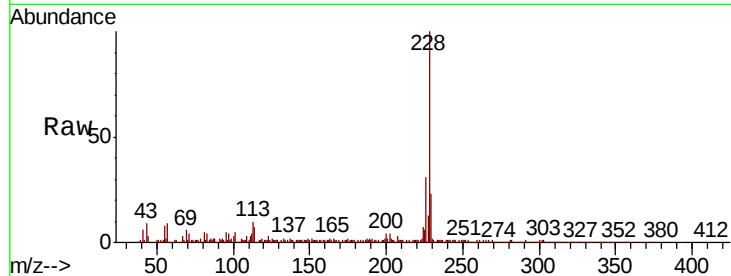
Tgt Ion:228 Resp: 144409

Ion Ratio Lower Upper

228 100

226 31.1 25.3 37.9

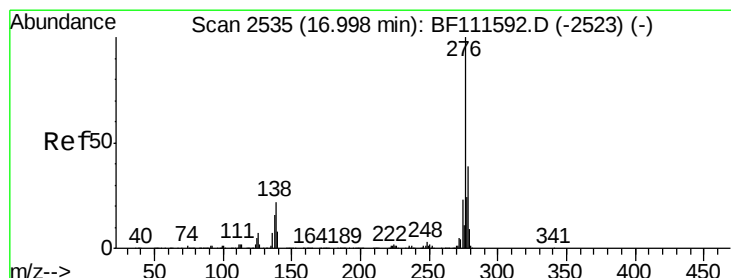
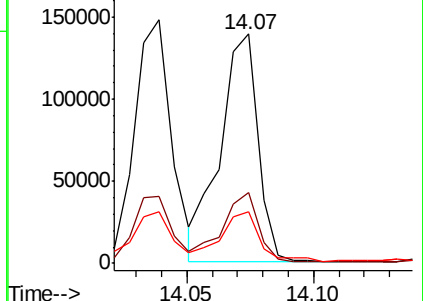
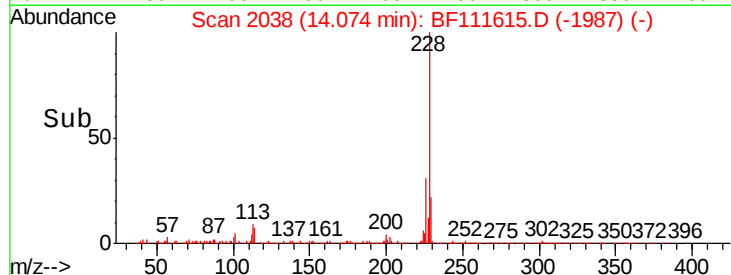
229 22.6 17.2 25.8



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: 3.242 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.00 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

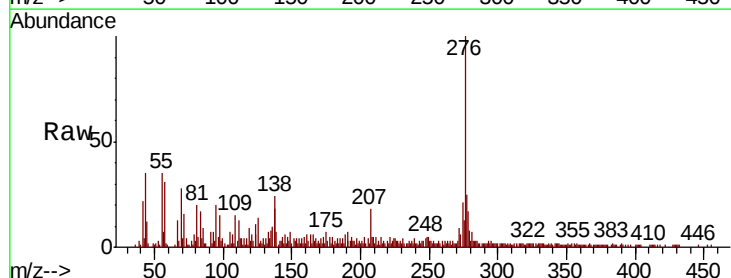
Tgt Ion:276 Resp: 74724

Ion Ratio Lower Upper

276 100

138 20.8 27.8 41.6#

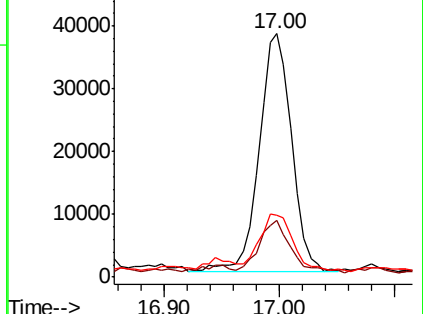
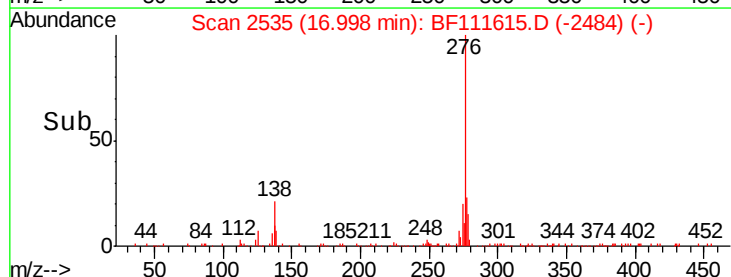
277 24.9 20.1 30.1

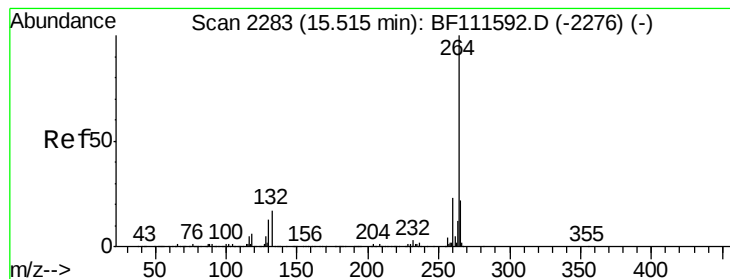


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.52 min Scan# 2284

Delta R.T. 0.01 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

Instrument :

BNA_F

ClientSampleId :

EB08_1.5-3.5

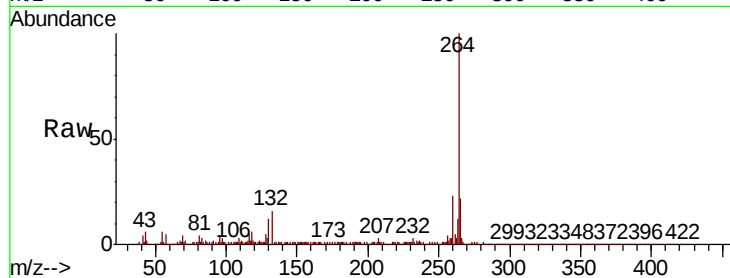
Tgt Ion:264 Resp: 334931

Ion Ratio Lower Upper

264 100

260 22.7 18.3 27.5

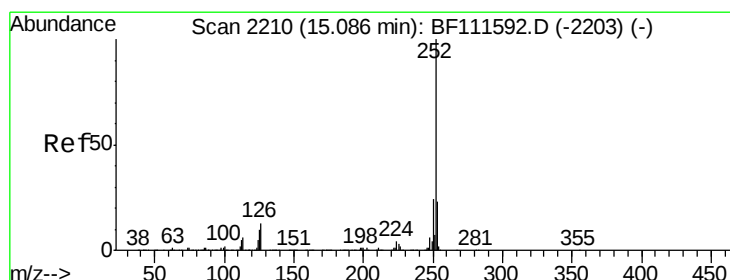
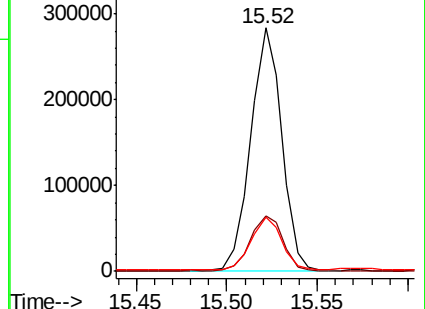
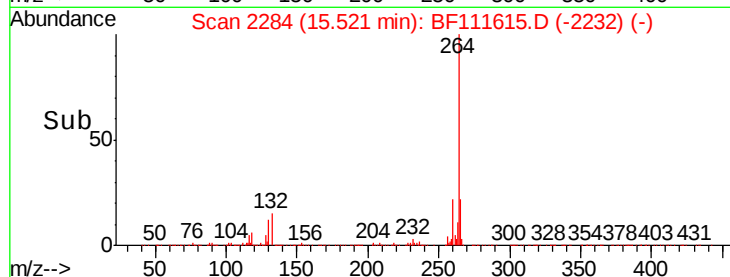
265 22.0 17.7 26.5



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: 11.119 ng

RT: 15.09 min Scan# 2210

Delta R.T. -0.00 min

Lab File: BF111615.D

Acq: 20 Dec 2018 2:47

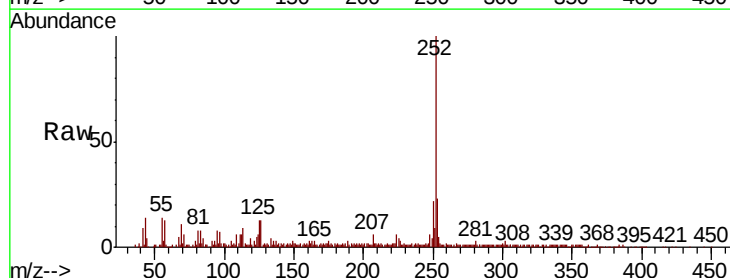
Tgt Ion:252 Resp: 217642

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

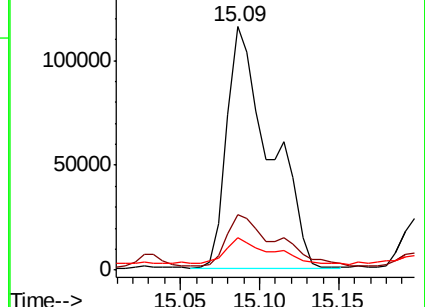
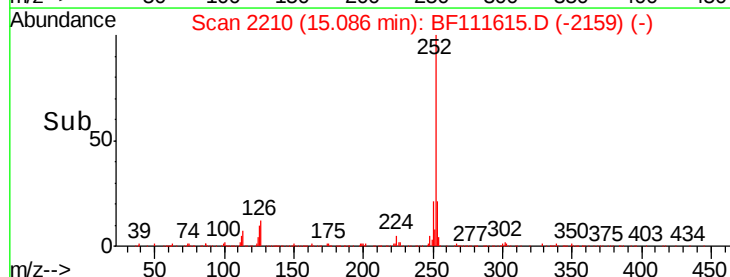
125 13.3 10.4 15.6

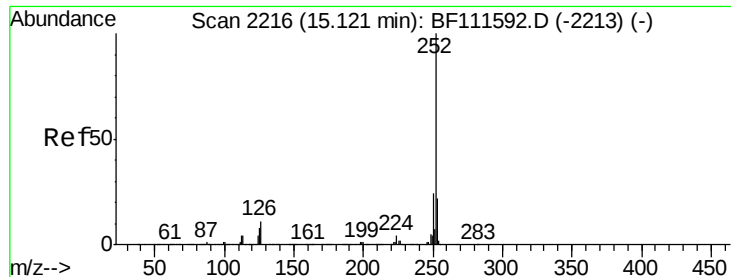


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

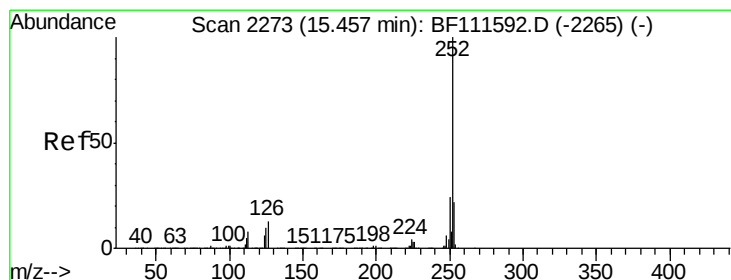
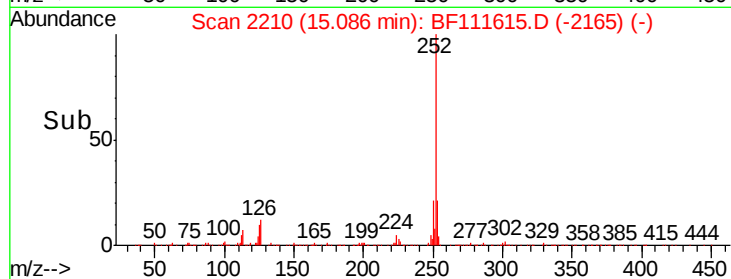
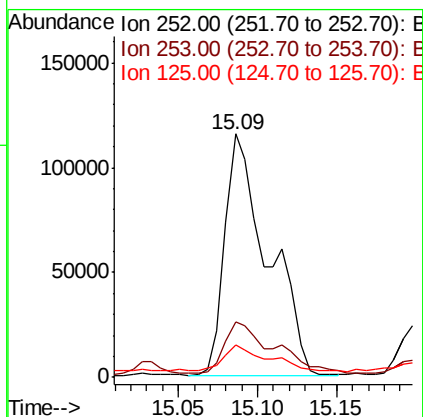
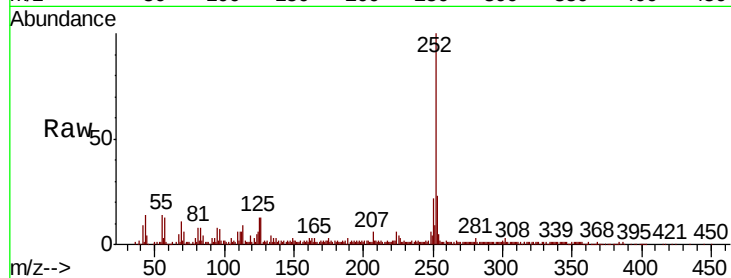




#89
Benzo(k)fluoranthene
Concen: 11.679 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.04 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

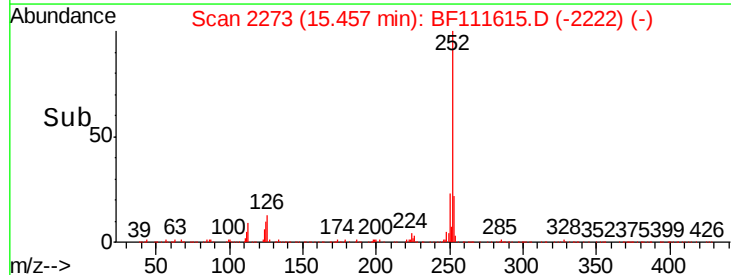
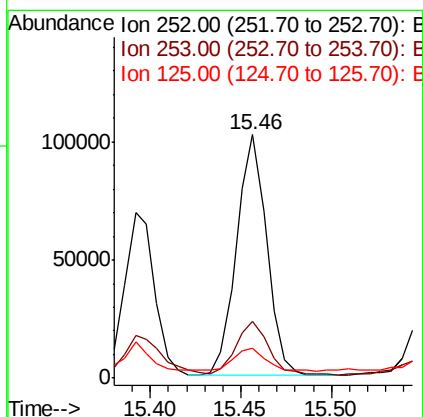
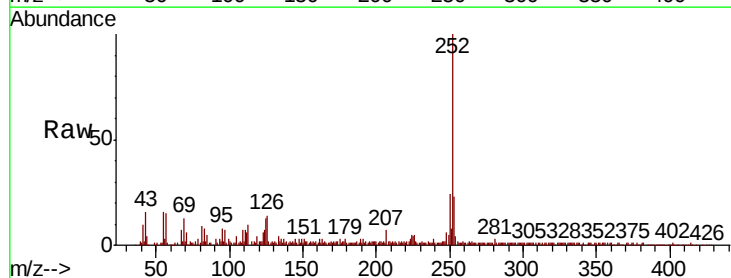
Instrument :
BNA_F
ClientSampleId :
EB08_1.5-3.5

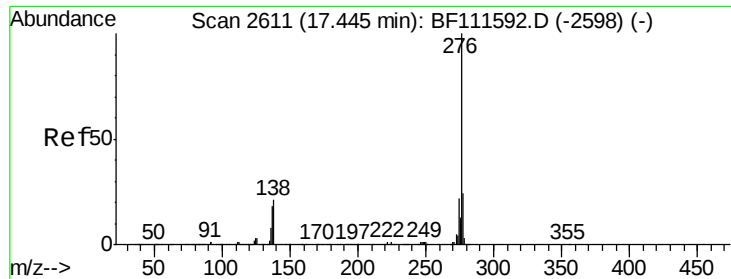
Tgt Ion: 252 Resp: 217642
Ion Ratio Lower Upper
252 100
253 22.7 18.1 27.1
125 13.3 9.8 14.8



#90
Benzo(a)pyrene
Concen: 6.632 ng
RT: 15.46 min Scan# 2273
Delta R.T. -0.00 min
Lab File: BF111615.D
Acq: 20 Dec 2018 2:47

Tgt Ion: 252 Resp: 117944
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.8
125 12.5 12.3 18.5





#92
 Benzo(g,h,i)perylene
 Concen: 4.921 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. -0.01 min
 Lab File: BF111615.D
 Acq: 20 Dec 2018 2:47

Instrument :
 BNA_F
 ClientSampleId :
 EB08_1.5-3.5

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.2	28.8
138	20.8	24.9	37.3

