

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
 Data File : BF111345.D
 Acq On : 13 Dec 2018 2:08
 Operator : JU/SJ
 Sample : J6214-43 20X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Quant Time: Dec 13 04:42:05 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	198691	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	748220	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	312136	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	537213	20.00	ng	0.00
76) Chrysene-d12	13.97	240	276060	20.00	ng	0.01
87) Perylene-d12	15.41	264	275757	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	72008	6.13	ng	0.00
7) Phenol-d6	6.42	99	89321	5.64	ng	-0.01
23) Nitrobenzene-d5	7.35	82	40581	3.06	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	14196	5.16	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	92108	4.74	ng	0.00
79) Terphenyl-d14	12.90	244	81303	6.48	ng	0.00

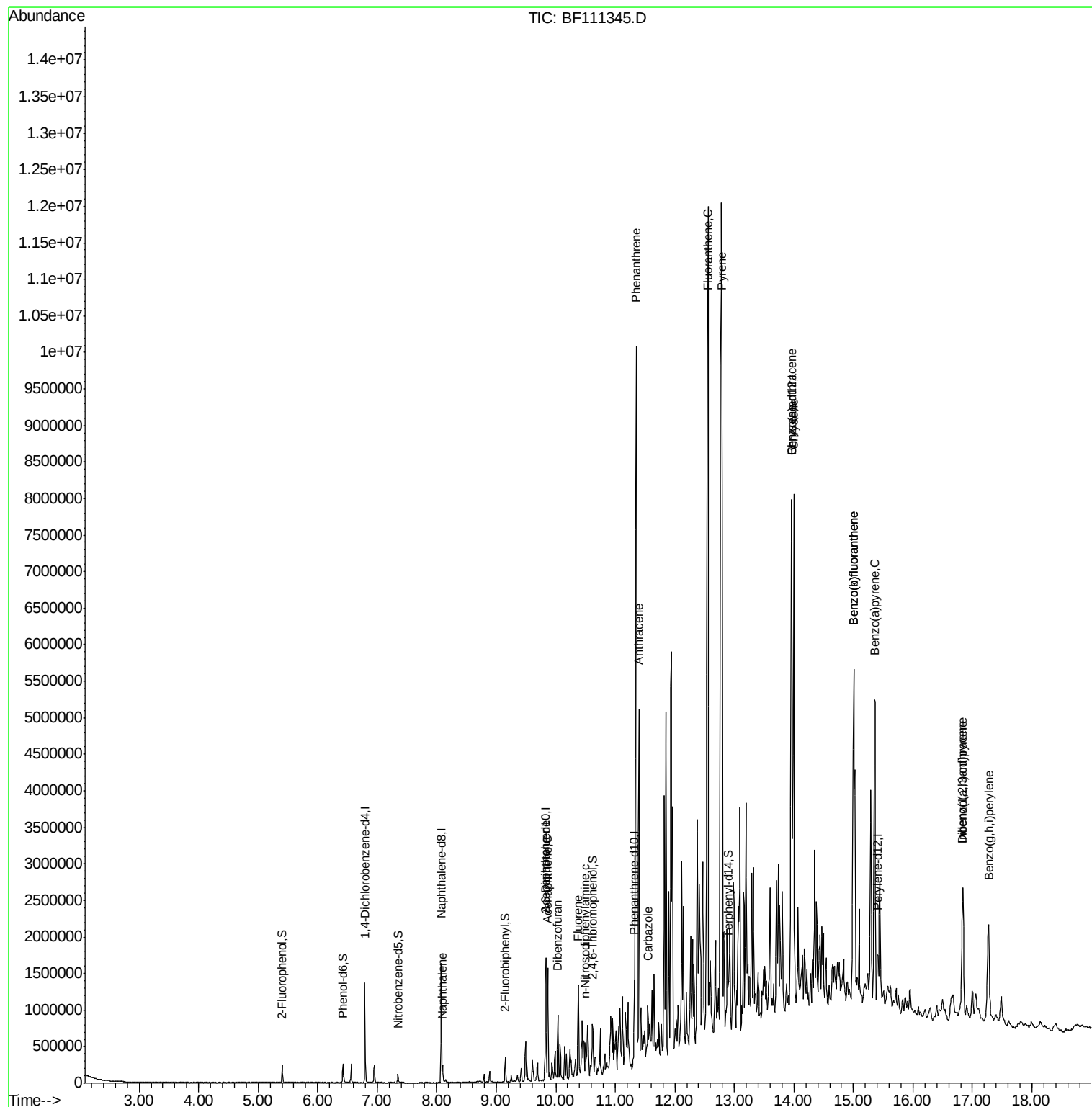
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.33	77	438	Below Cal		# 50
31) Naphthalene	8.10	128	86327	2.476	ng	96
51) 2,6-Dinitrotoluene	9.83	165	50541	10.158	ng	# 30
52) Acenaphthene	9.86	154	293131	15.596	ng	99
55) Dibenzofuran	10.03	168	178418	6.576	ng	# 95
58) Fluorene	10.38	166	317224	16.344	ng	98
66) n-Nitrosodiphenylamine	10.49	169	43604	2.282	ng	# 57
71) Phenanthrene	11.35	178	4531202	163.185	ng	100
72) Anthracene	11.40	178	1653362	58.477	ng	97
73) Carbazole	11.55	167	257851	8.820	ng	96
75) Fluoranthene	12.56	202	7139420	263.377	ng	93
78) Pyrene	12.79	202	7189292	337.438	ng	94
81) Benzo(a)anthracene	13.96	228	3395319	219.819	ng	97
83) Chrysene	14.00	228	2934382	186.206	ng	98
86) Indeno(1,2,3-cd)pyrene	16.84	276	1297573	105.277	ng	94
88) Benzo(b)fluoranthene	15.00	252	4114808	262.415	ng	99
89) Benzo(k)fluoranthene	15.00	252	4114808	262.897	ng	98
90) Benzo(a)pyrene	15.36	252	2450304	167.828	ng	97
91) Dibenzo(a,h)anthracene	16.84	278	331415	27.283	ng	94
92) Benzo(g,h,i)perylene	17.27	276	1257732	103.563	ng	95

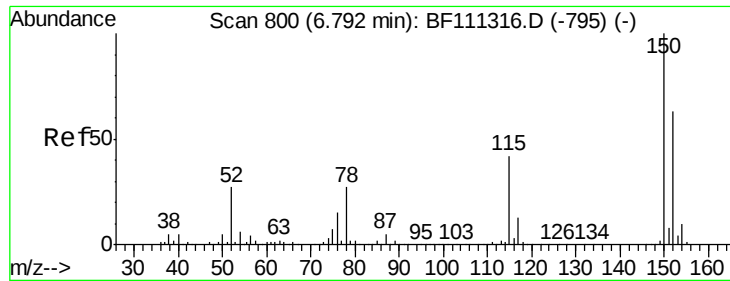
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 800

Delta R.T. 0.00 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

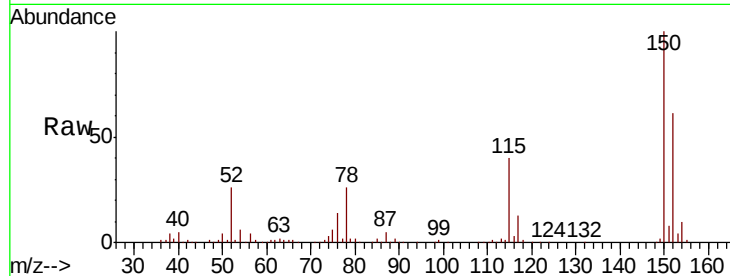
Tgt Ion:152 Resp: 198691

Ion Ratio Lower Upper

152 100

150 163.3 126.6 189.8

115 65.7 50.7 76.1

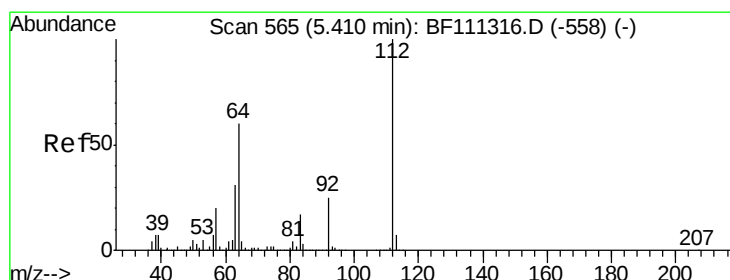
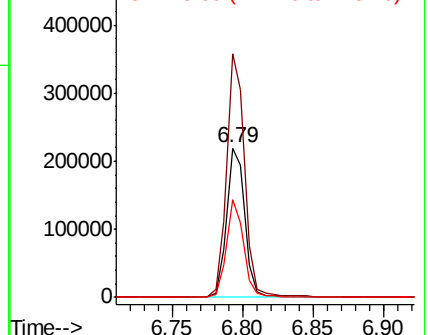
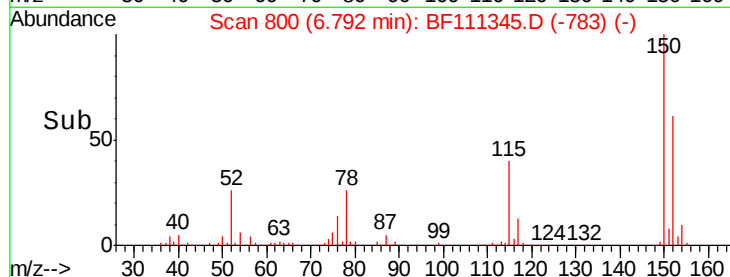


Abundance

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: 6.128 ng

RT: 5.40 min Scan# 564

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

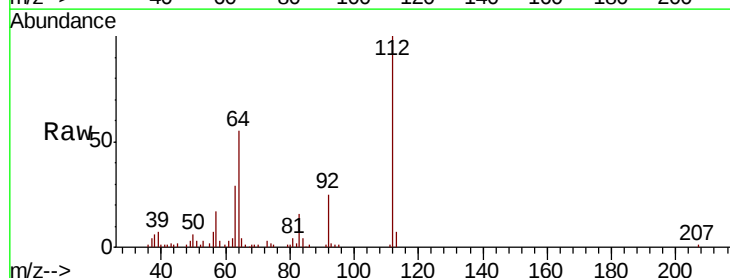
Tgt Ion:112 Resp: 72008

Ion Ratio Lower Upper

112 100

64 54.6 51.8 77.6

63 28.7 26.8 40.2

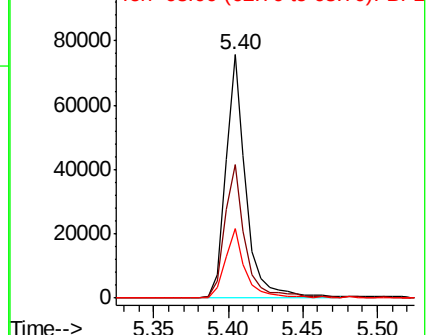
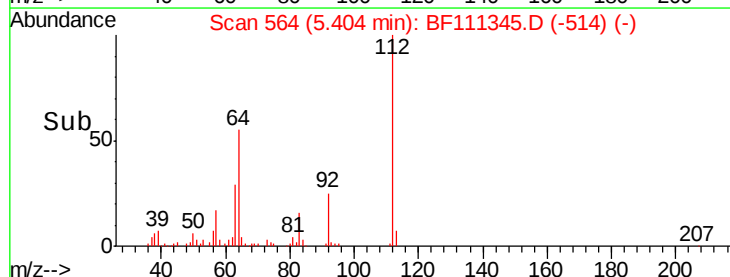


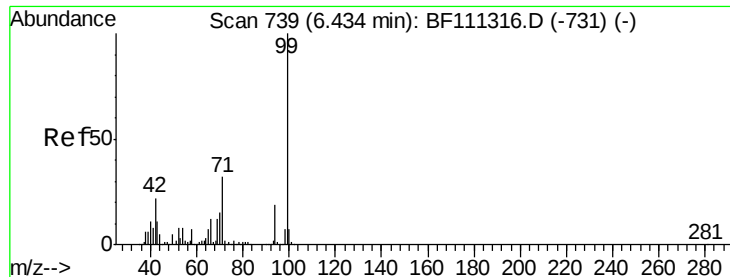
Abundance

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: 5.638 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

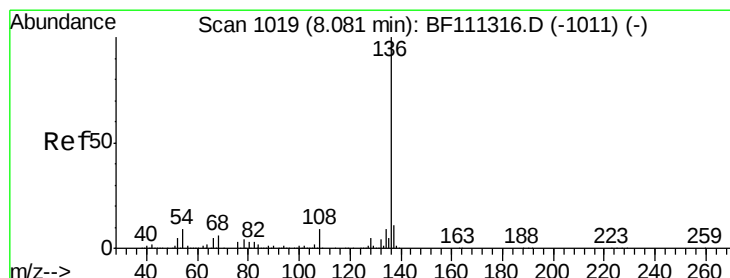
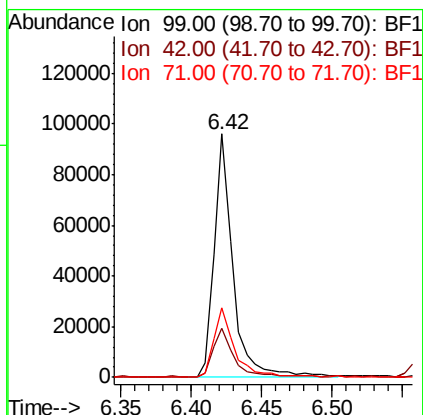
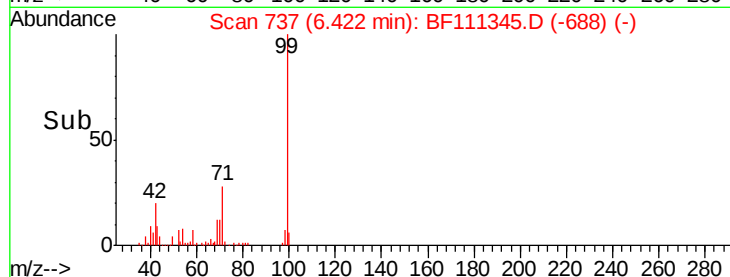
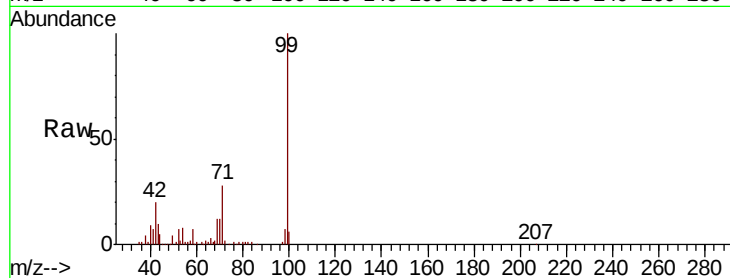
Tgt Ion: 99 Resp: 89321

Ion Ratio Lower Upper

99 100

42 20.2 17.4 26.0

71 28.4 26.1 39.1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Tgt Ion: 136 Resp: 748220

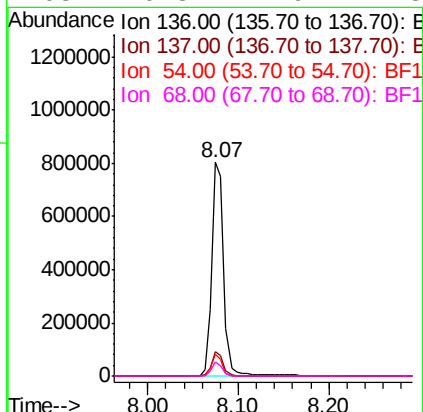
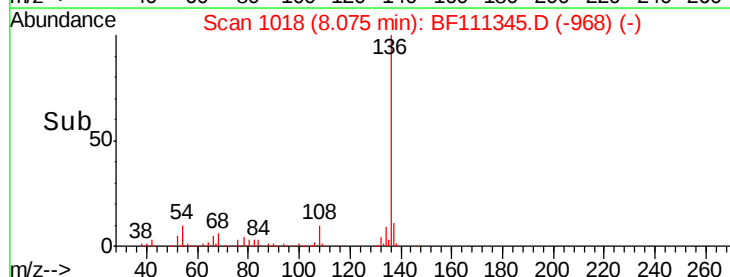
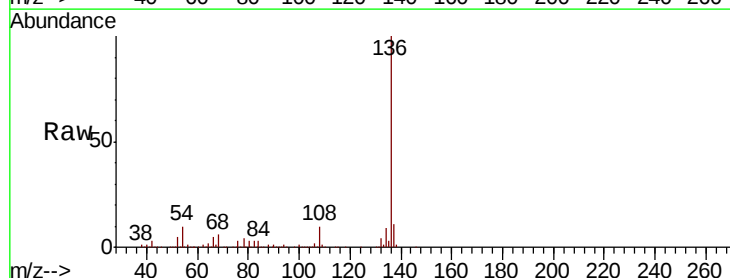
Ion Ratio Lower Upper

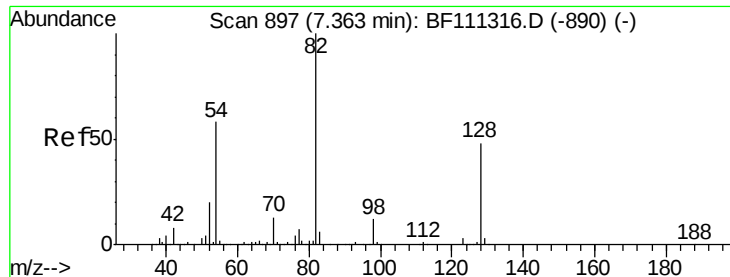
136 100

137 11.5 9.1 13.7

54 10.1 7.7 11.5

68 6.3 4.9 7.3

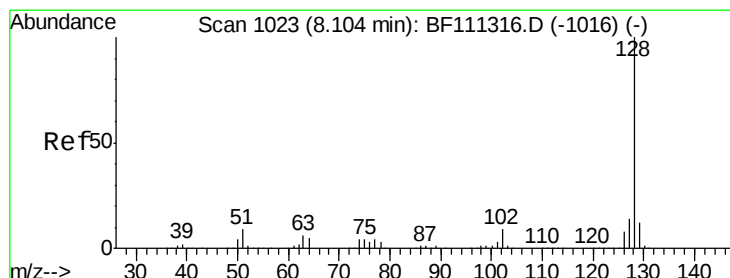
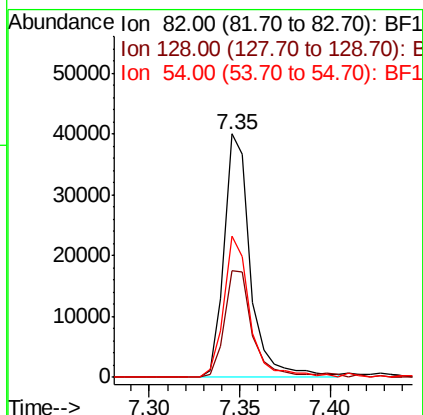
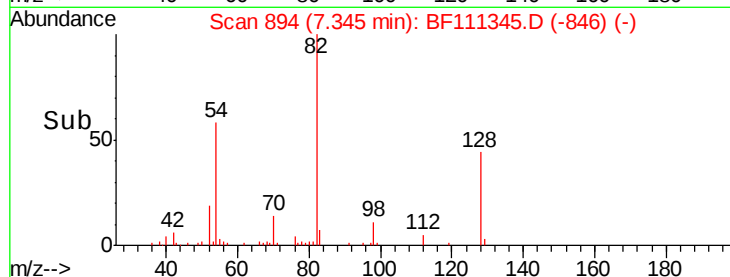
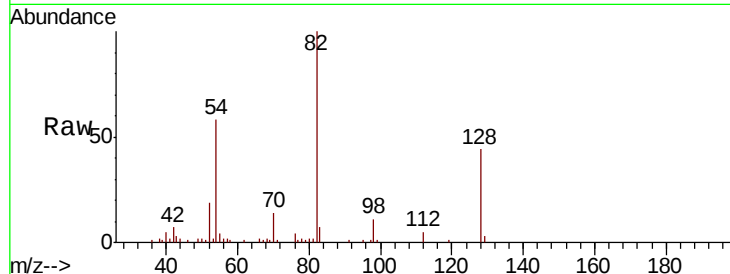




#23
Nitrobenzene-d5
Concen: 3.057 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

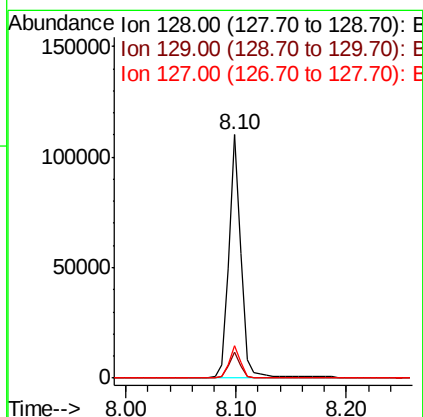
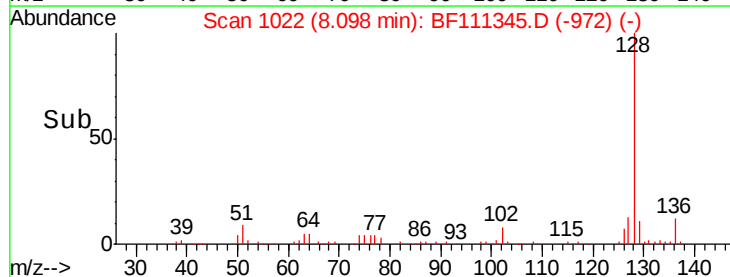
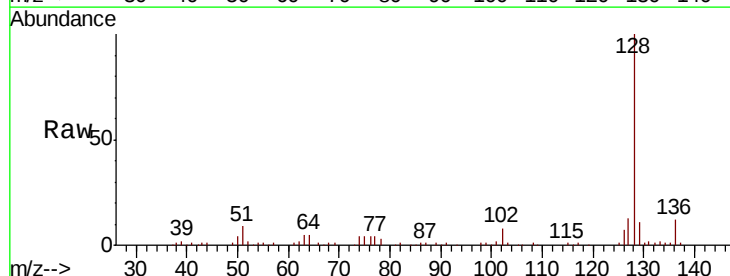
Instrument :
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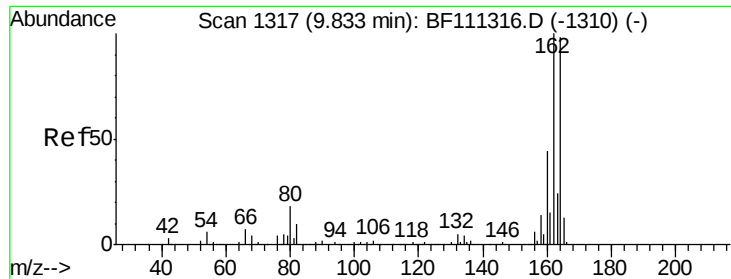
Tgt Ion: 82 Resp: 40581
Ion Ratio Lower Upper
82 100
128 43.9 37.4 56.2
54 58.0 47.6 71.4



#31
Naphthalene
Concen: 2.476 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion: 128 Resp: 86327
Ion Ratio Lower Upper
128 100
129 10.7 9.8 14.8
127 13.1 12.0 18.0

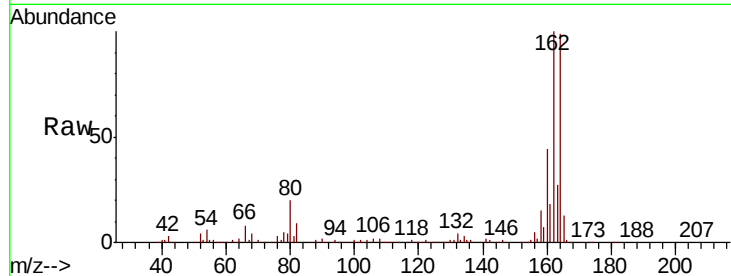




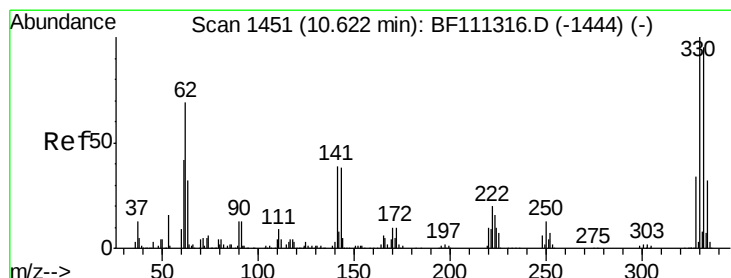
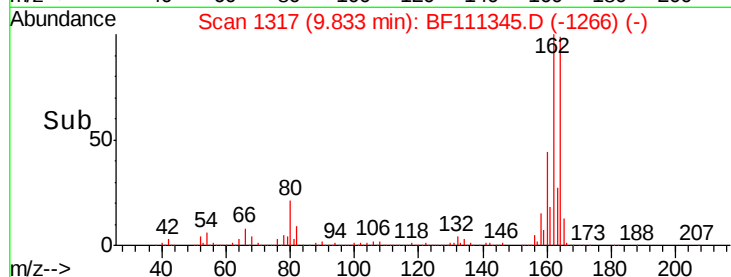
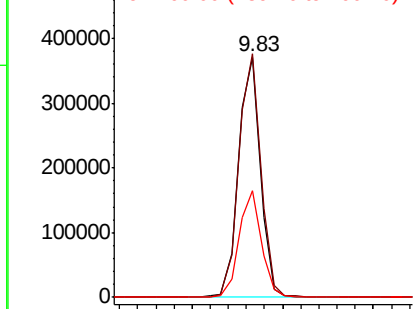
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	81.4	122.0
160	44.4	35.7	53.5

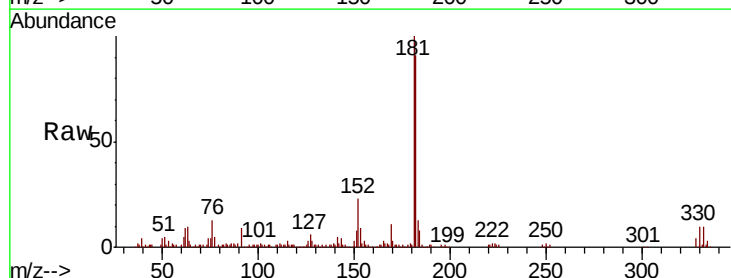


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

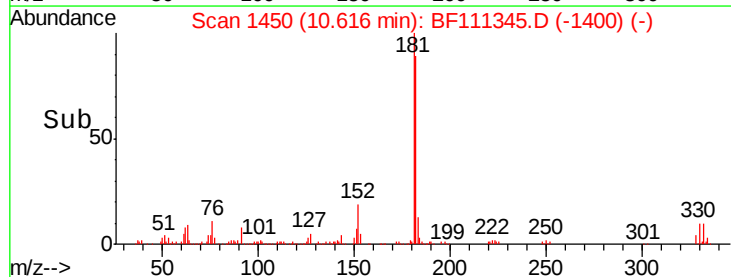
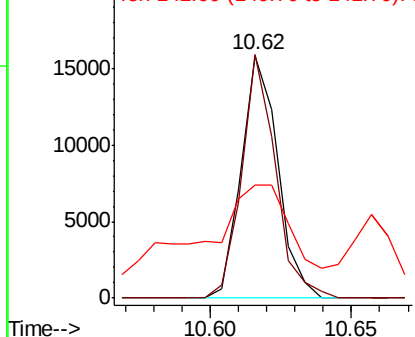


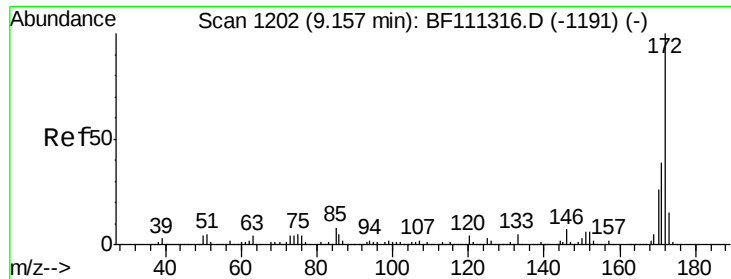
#42
2,4,6-Tribromophenol
Concen: 5.159 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.9	76.0	114.0
141	84.3	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

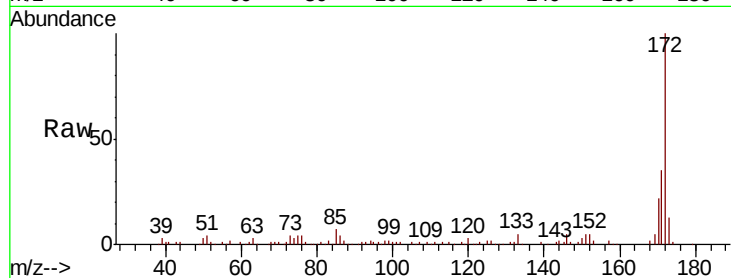




#45
2-Fluorobiphenyl
Concen: 4.738 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	33.0	49.4
170	22.3	22.3	33.5#

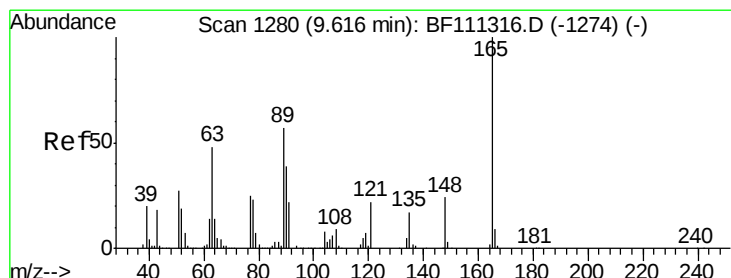
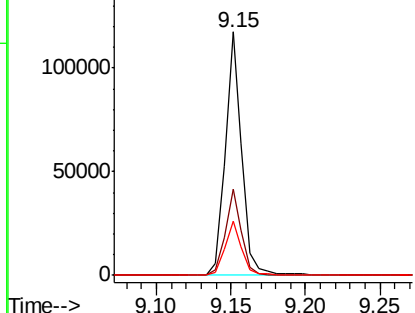
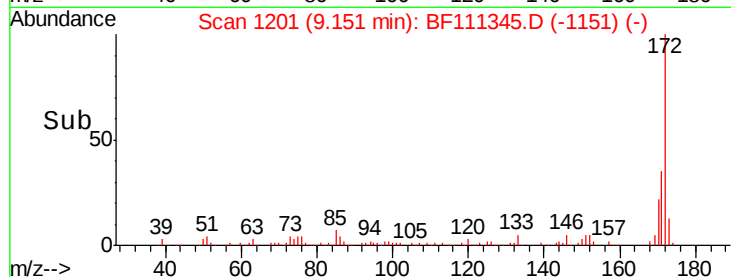


Abundance

Ion 172.00 (171.70 to 172.70): E

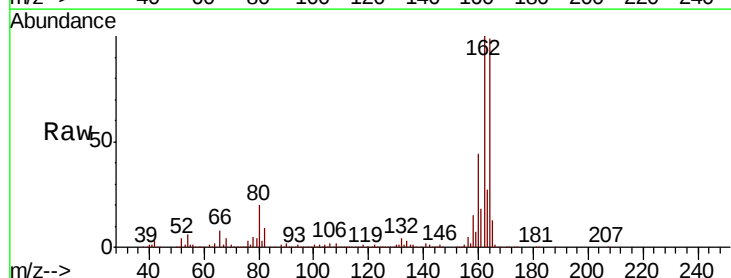
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51
2,6-Dinitrotoluene
Concen: 10.158 ng
RT: 9.83 min Scan# 1317
Delta R.T. 0.22 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	40.5	60.7#
89	1.8	40.0	60.0#

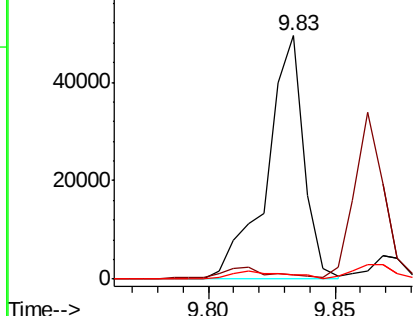
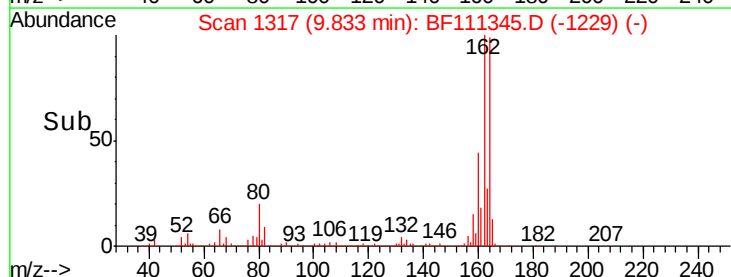


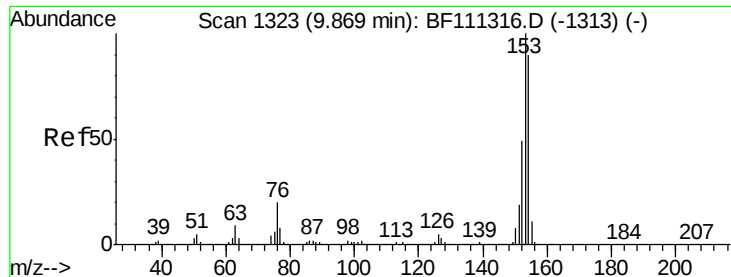
Abundance

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





#52

Acenaphthene

Concen: 15.596 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

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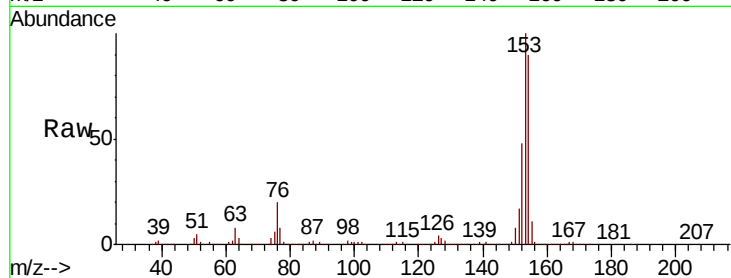
Tgt Ion:154 Resp: 293131

Ion Ratio Lower Upper

154 100

153 111.1 87.8 131.8

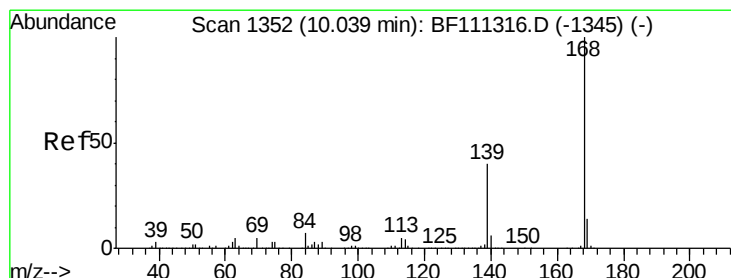
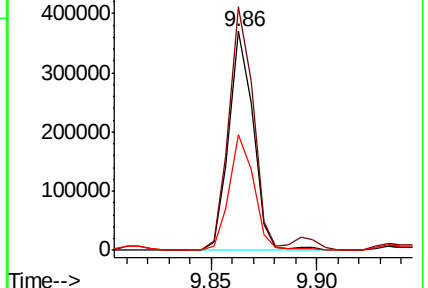
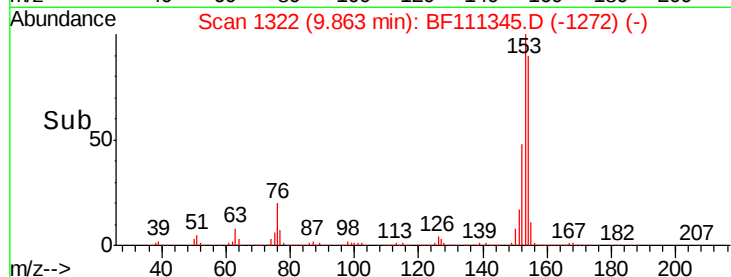
152 53.0 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 6.576 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

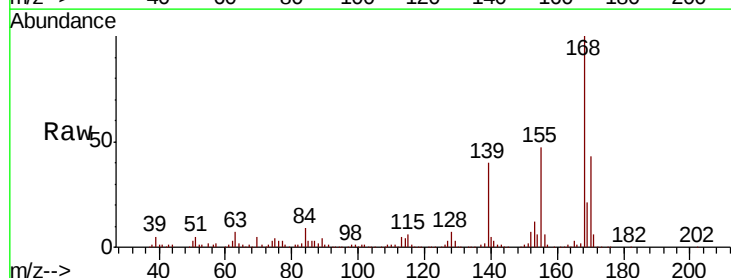
Tgt Ion:168 Resp: 178418

Ion Ratio Lower Upper

168 100

139 40.2 32.6 49.0

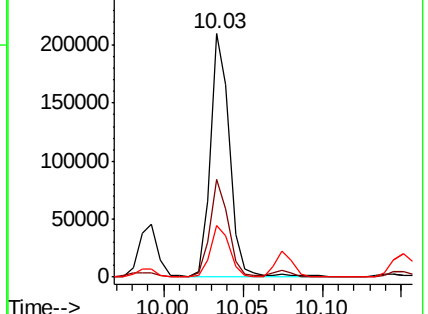
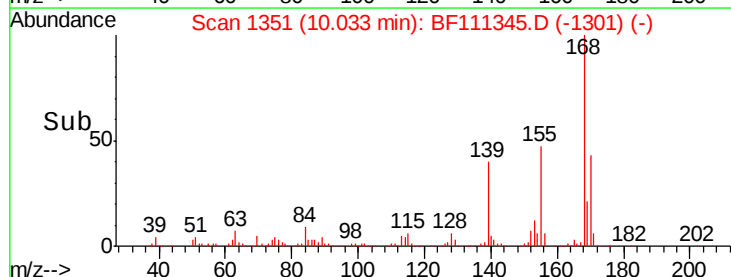
169 21.4 11.8 17.6#

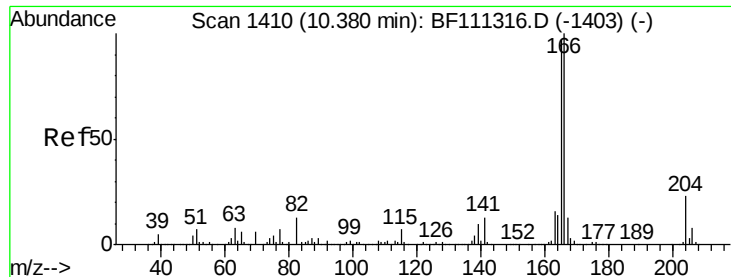


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 16.344 ng

RT: 10.38 min Scan# 1410

Delta R.T. 0.00 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

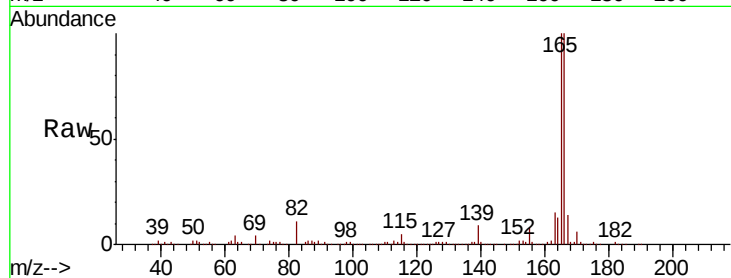
Tgt Ion:166 Resp: 317224

Ion Ratio Lower Upper

166 100

165 100.5 78.4 117.6

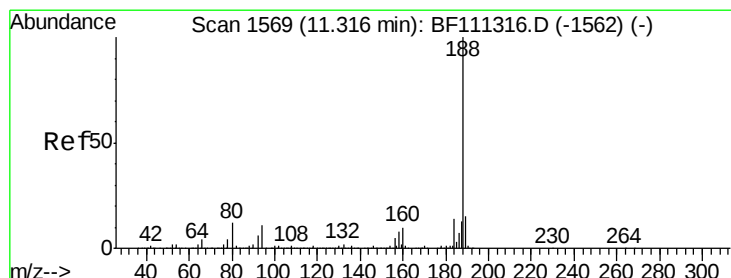
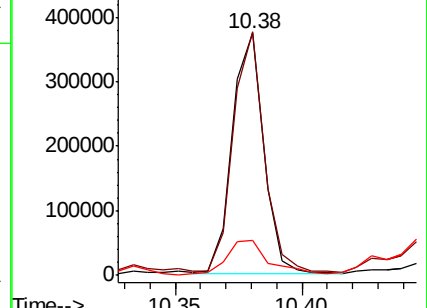
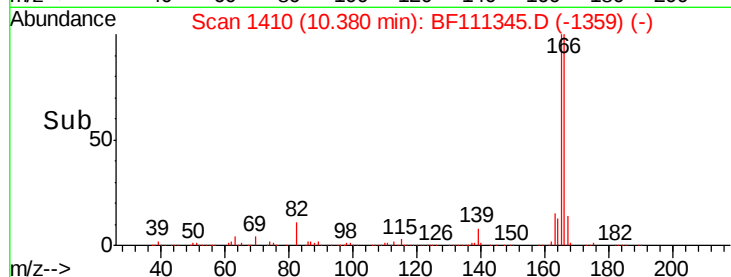
167 14.2 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

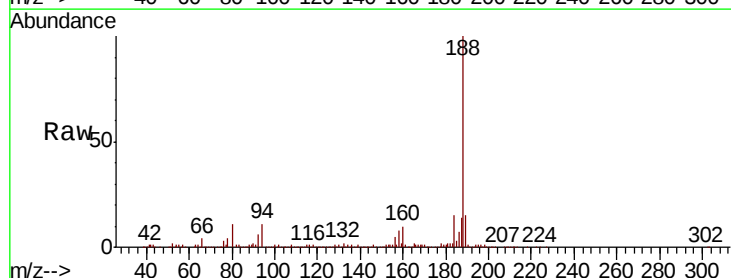
Tgt Ion:188 Resp: 537213

Ion Ratio Lower Upper

188 100

94 11.4 9.6 14.4

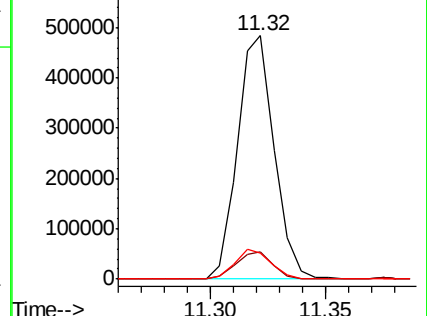
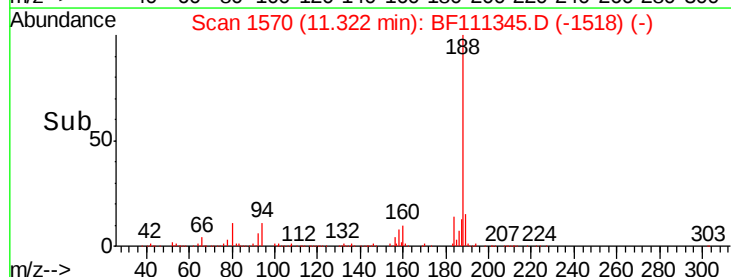
80 10.8 9.8 14.6

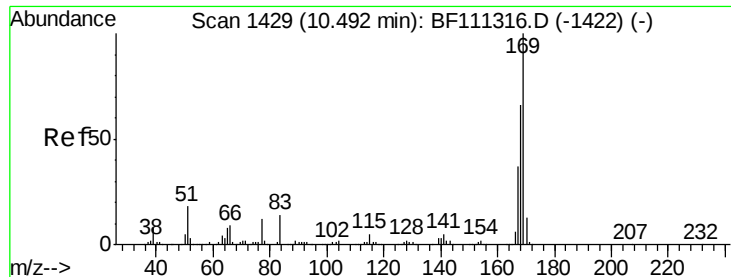


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

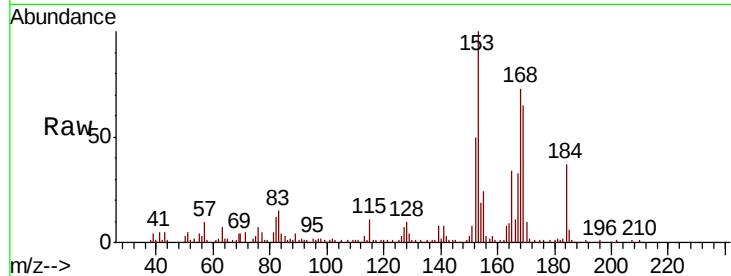




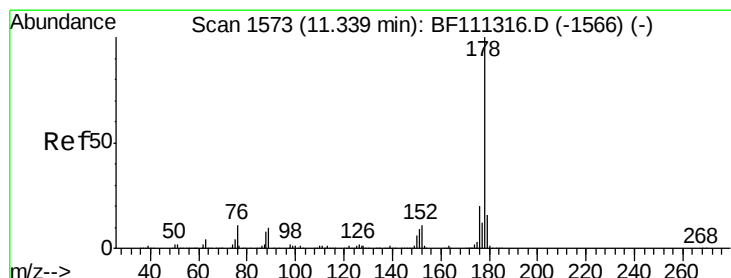
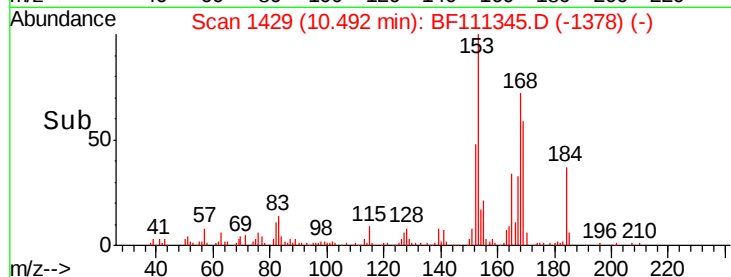
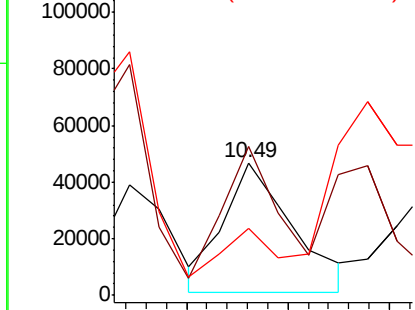
#66
 n-Nitrosodiphenylamine
 Concen: 2.282 ng
 RT: 10.49 min Scan# 1429
 Delta R.T. 0.00 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Tgt Ion:169 Resp: 43604
 Ion Ratio Lower Upper
 169 100
 168 112.3 54.4 81.6#
 167 50.8 30.5 45.7#

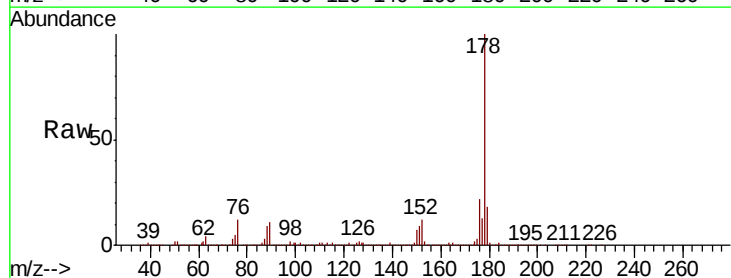


Abundance Ion 169.00 (168.70 to 169.70): E
 Ion 168.00 (167.70 to 168.70): E
 Ion 167.00 (166.70 to 167.70): E

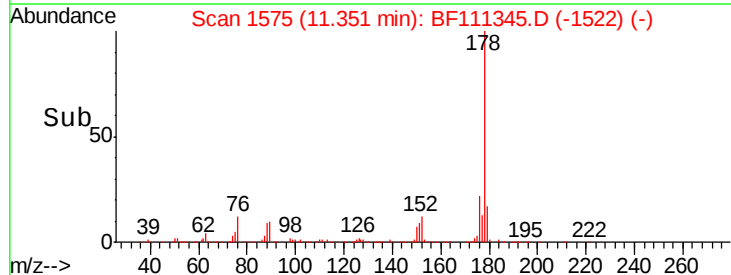
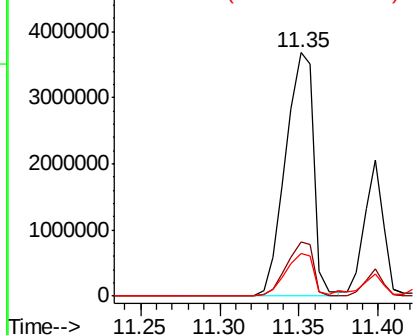


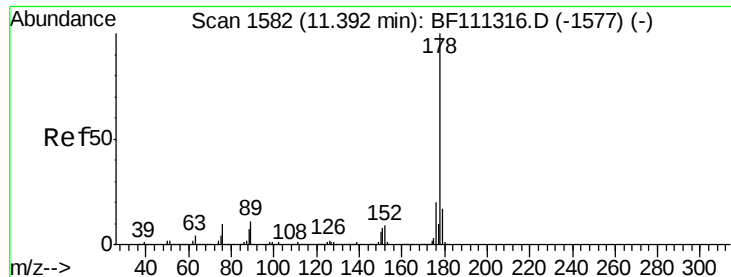
#71
 Phenanthrene
 Concen: 163.185 ng
 RT: 11.35 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Tgt Ion:178 Resp: 4531202
 Ion Ratio Lower Upper
 178 100
 176 22.5 18.1 27.1
 179 17.7 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

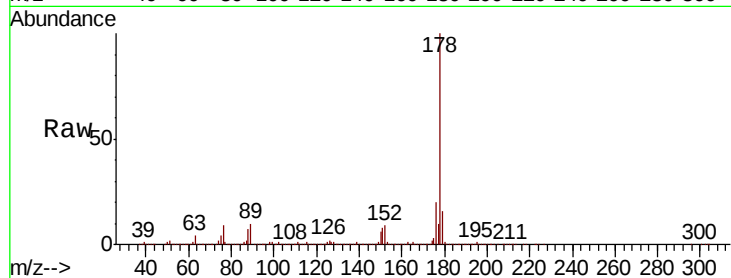




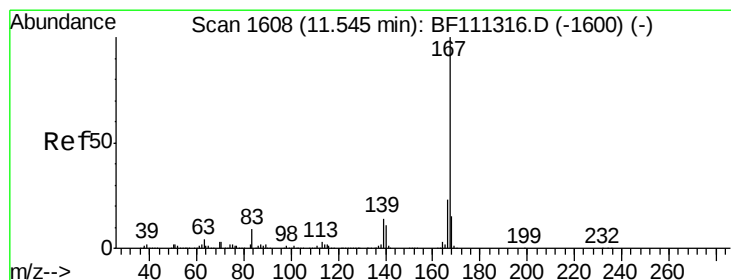
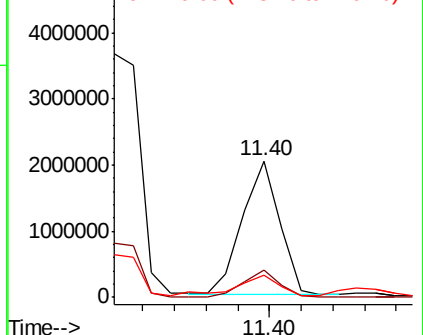
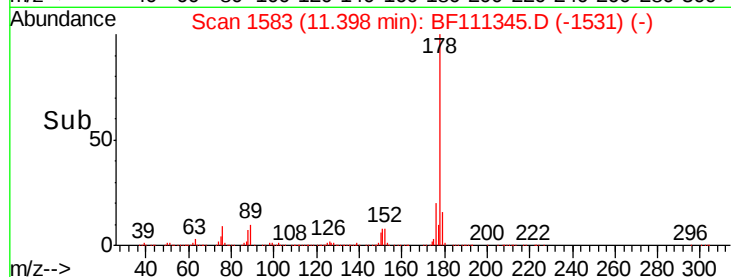
#72
 Anthracene
 Concen: 58.477 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-5(12.5-14.5)

Tgt Ion:178 Resp: 1653362
 Ion Ratio Lower Upper
 178 100
 176 19.8 17.2 25.8
 179 16.2 13.8 20.8

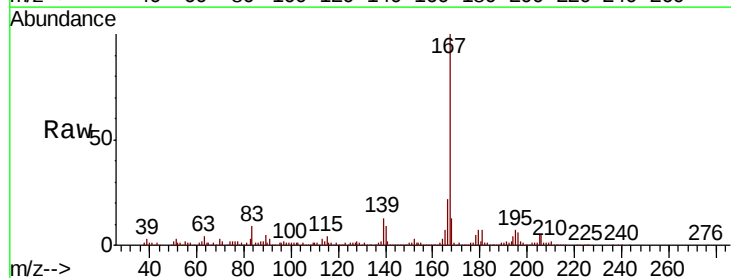


Abundance Ion 178.00 (177.70 to 178.70): E
 5000000
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

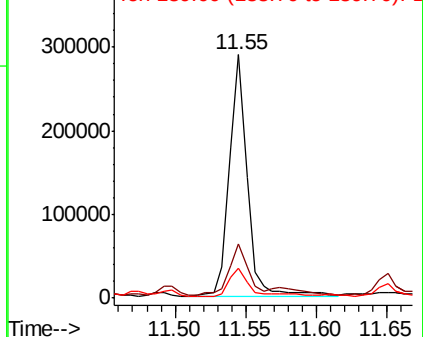
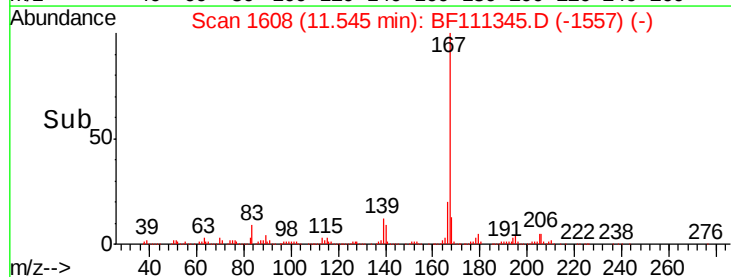


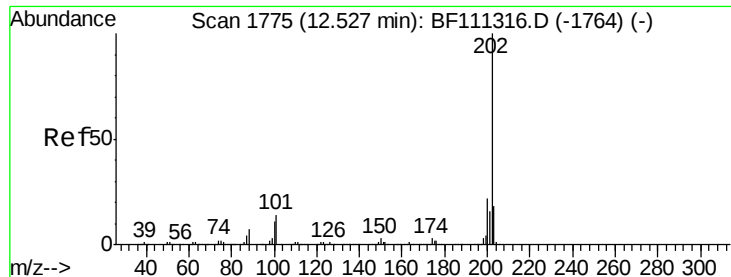
#73
 Carbazole
 Concen: 8.820 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. 0.00 min
 Lab File: BF111345.D
 Acq: 13 Dec 2018 2:08

Tgt Ion:167 Resp: 257851
 Ion Ratio Lower Upper
 167 100
 166 22.4 19.3 28.9
 139 12.5 11.9 17.9



Abundance Ion 167.00 (166.70 to 167.70): E
 400000
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 263.377 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.03 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

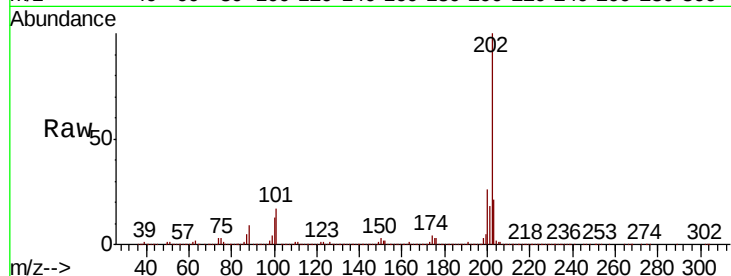
Tgt Ion:202 Resp: 7139420

Ion Ratio Lower Upper

202 100

101 17.3 0.0 33.8

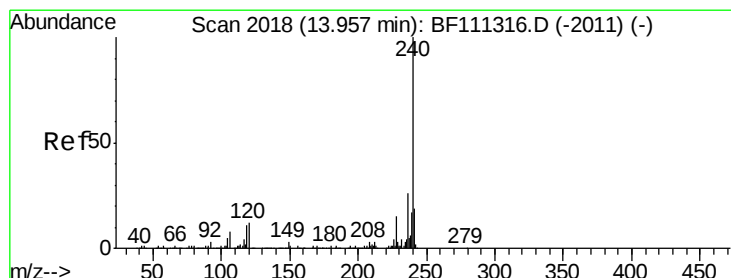
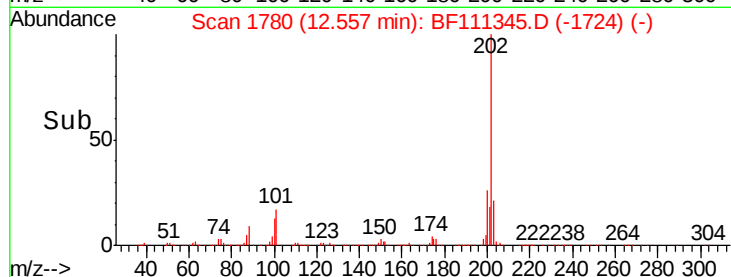
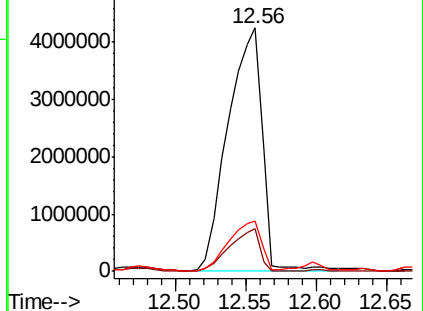
203 20.9 0.0 38.6



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: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

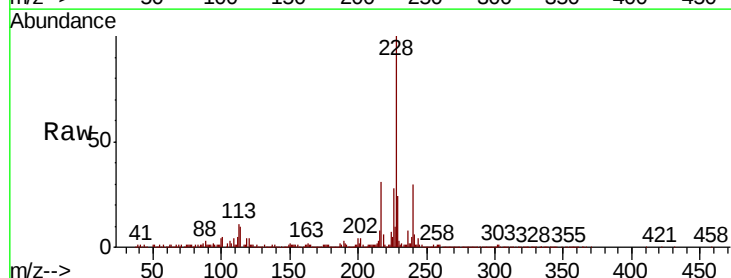
Tgt Ion:240 Resp: 276060

Ion Ratio Lower Upper

240 100

120 14.9 12.2 18.2

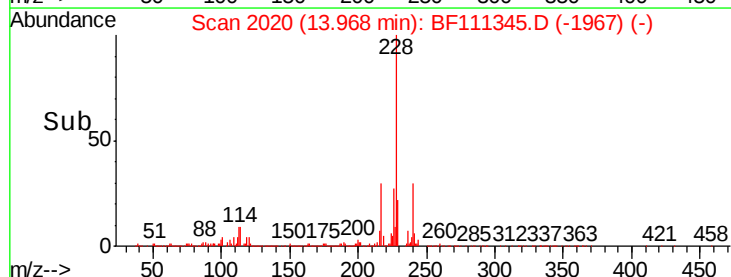
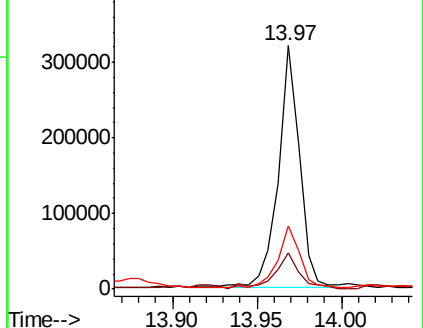
236 26.0 20.2 30.2

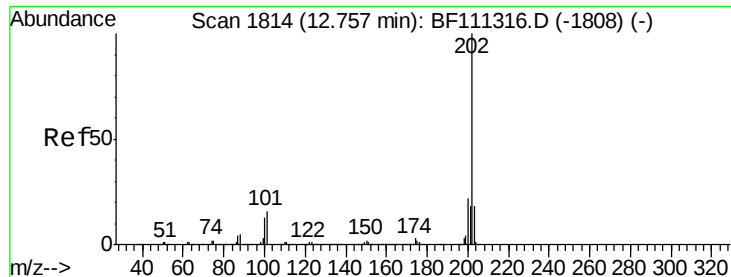


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 337.438 ng

RT: 12.79 min Scan# 1819

Delta R.T. 0.03 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

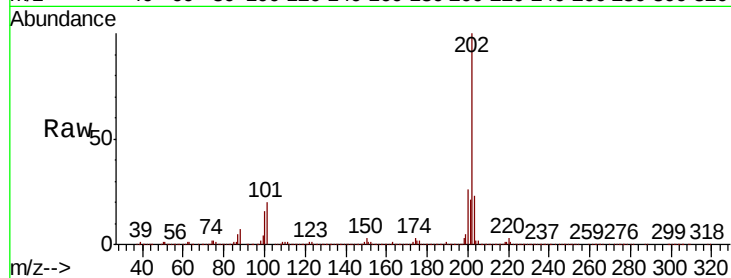
Tgt Ion:202 Resp: 7189292

Ion Ratio Lower Upper

202 100

200 25.7 19.0 28.4

203 22.6 15.2 22.8

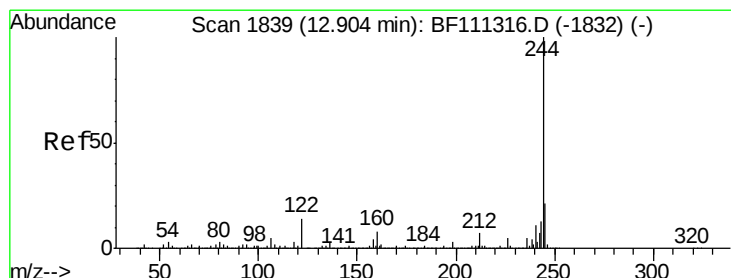
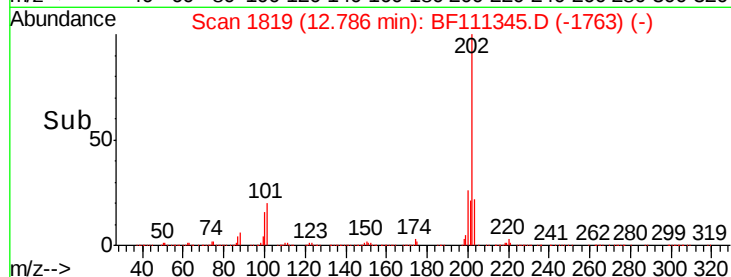
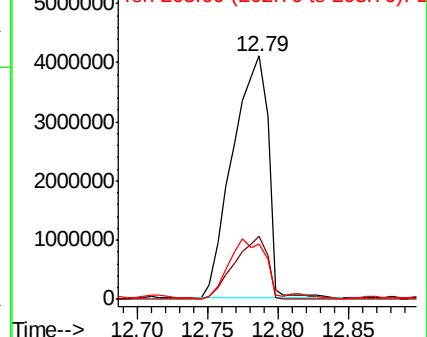


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 6.482 ng

RT: 12.90 min Scan# 1839

Delta R.T. 0.00 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

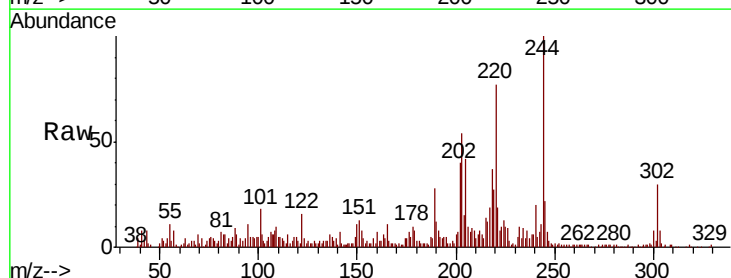
Tgt Ion:244 Resp: 81303

Ion Ratio Lower Upper

244 100

212 8.0 5.7 8.5

122 15.9 13.1 19.7

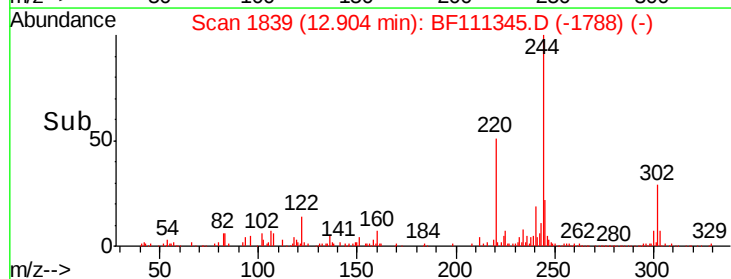
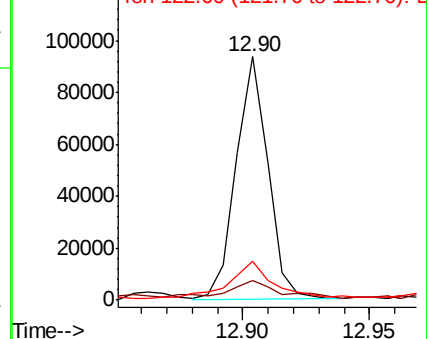


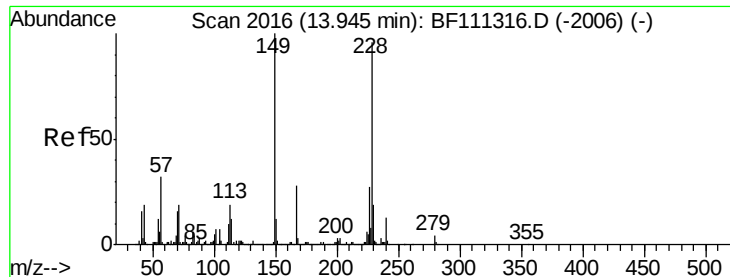
Abundance

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: 219.819 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

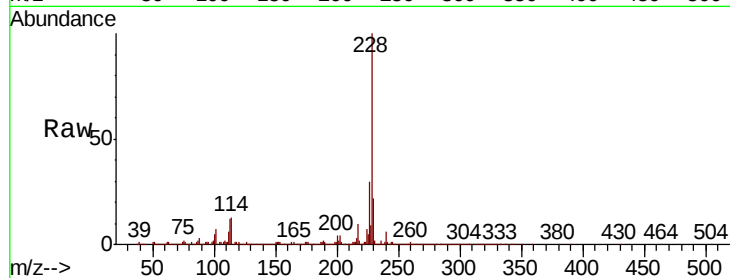
Tgt Ion:228 Resp: 3395319

Ion Ratio Lower Upper

228 100

226 29.5 22.6 34.0

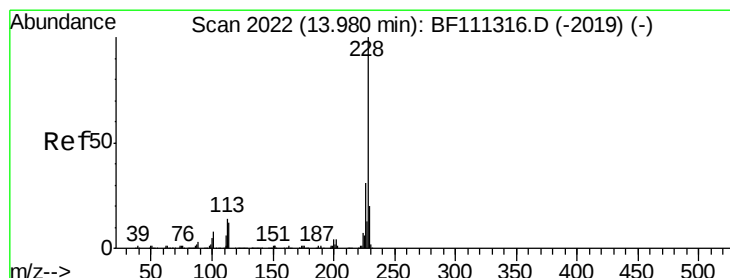
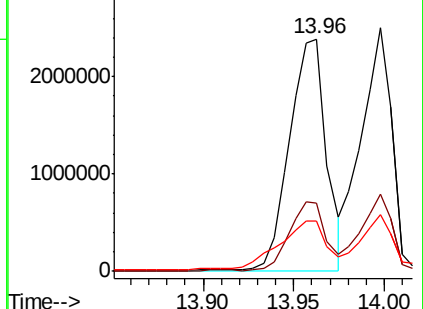
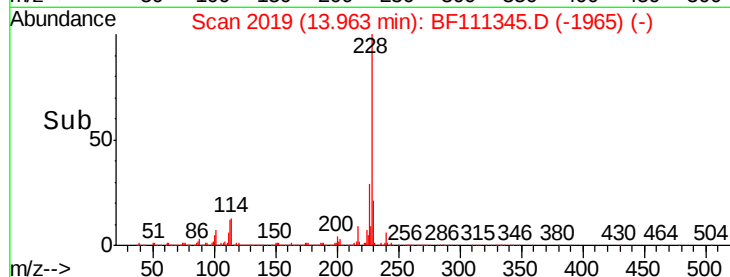
229 21.7 16.3 24.5



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: 186.206 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

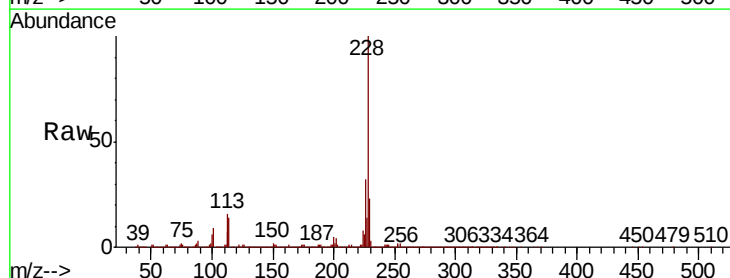
Tgt Ion:228 Resp: 2934382

Ion Ratio Lower Upper

228 100

226 31.9 25.3 37.9

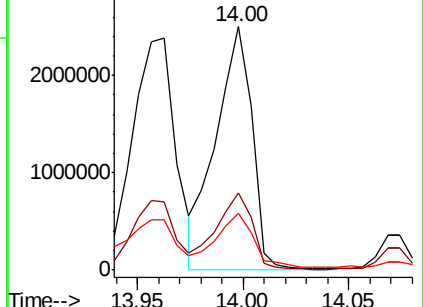
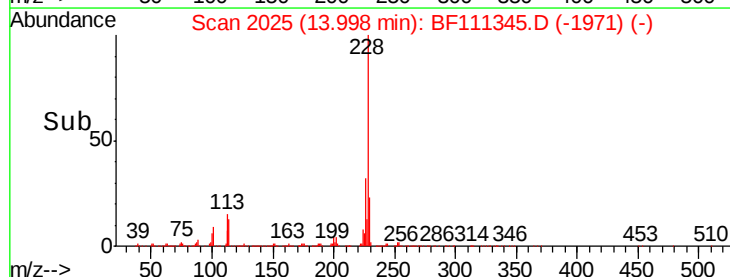
229 23.4 17.2 25.8

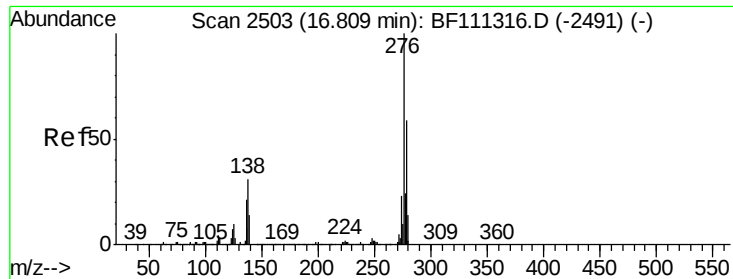


Abundance Ion 228.00 (227.70 to 228.70): E

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: 105.277 ng

RT: 16.84 min Scan# 2508

Delta R.T. 0.03 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

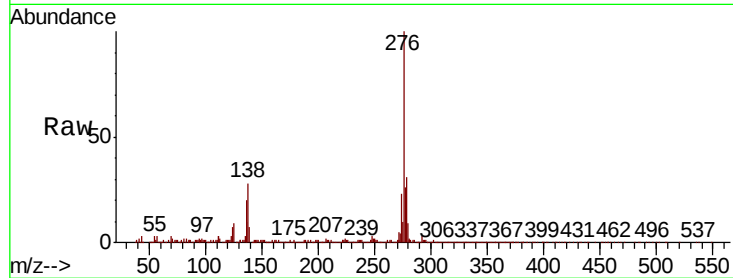
Tgt Ion:276 Resp: 1297573

Ion Ratio Lower Upper

276 100

138 29.2 27.8 41.6

277 25.6 20.1 30.1

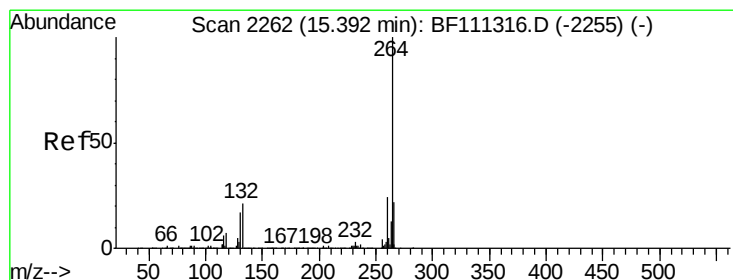
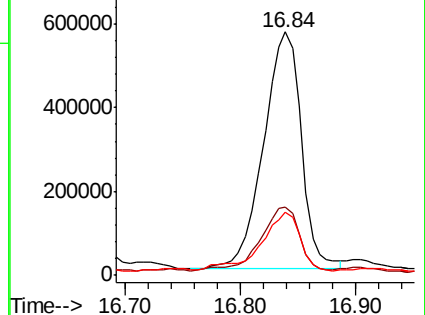
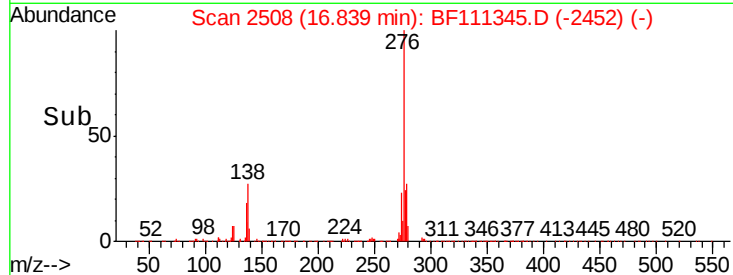


Abundance

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: 15.41 min Scan# 2265

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

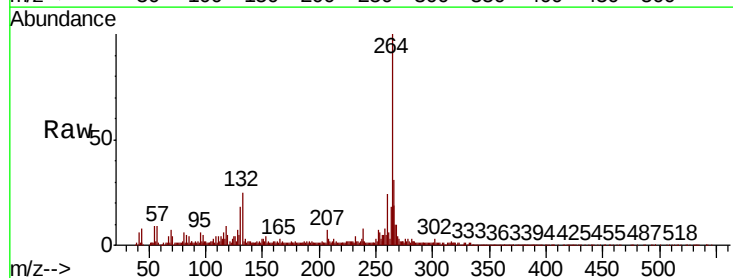
Tgt Ion:264 Resp: 275757

Ion Ratio Lower Upper

264 100

260 23.8 18.3 27.5

265 31.1 17.7 26.5#

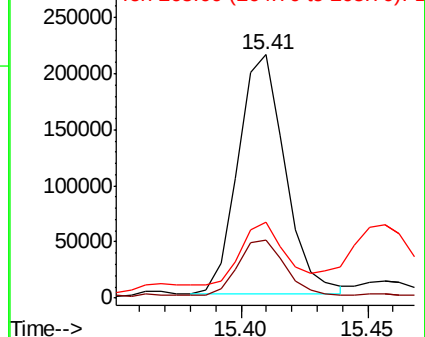
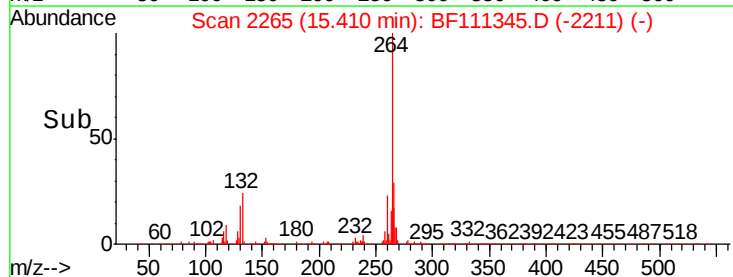


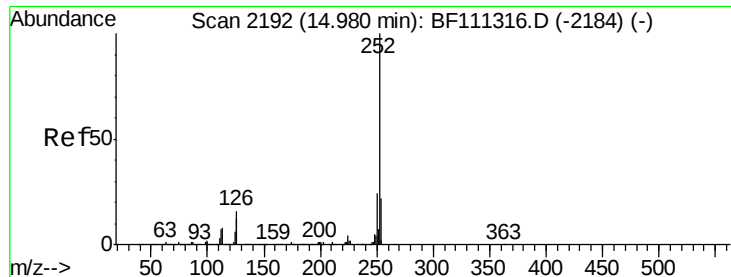
Abundance

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

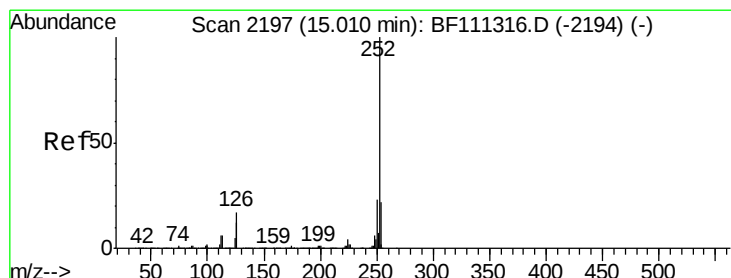
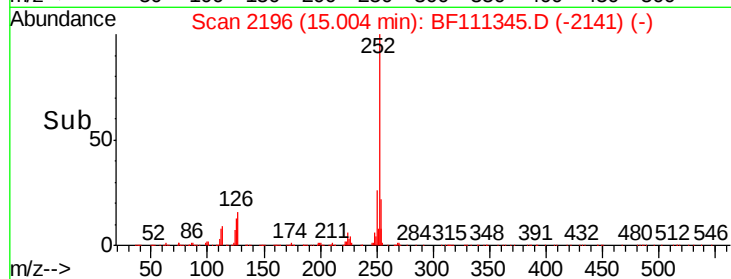
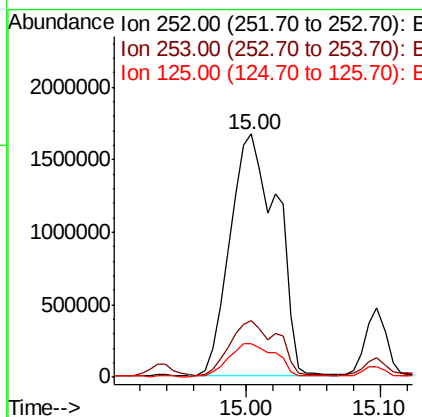
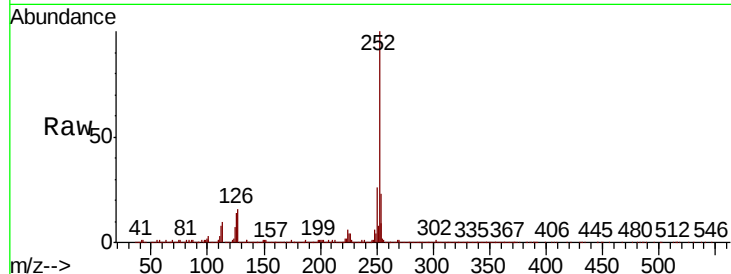




#88
Benzo(b)fluoranthene
Concen: 262.415 ng
RT: 15.00 min Scan# 2196
Delta R.T. 0.02 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

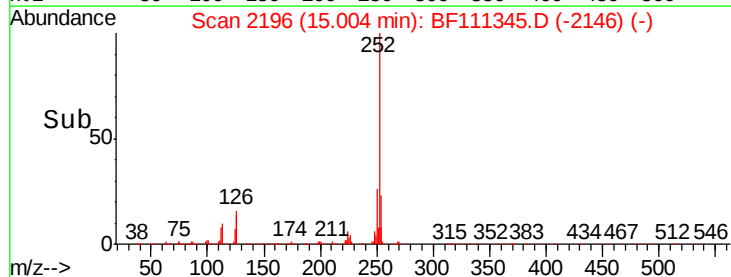
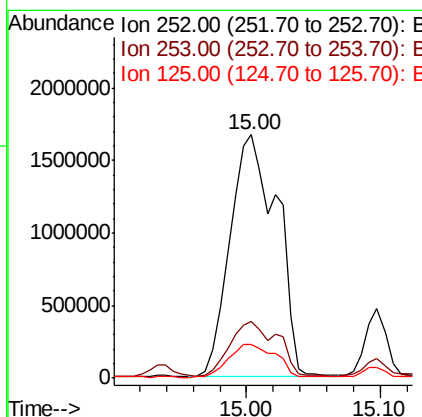
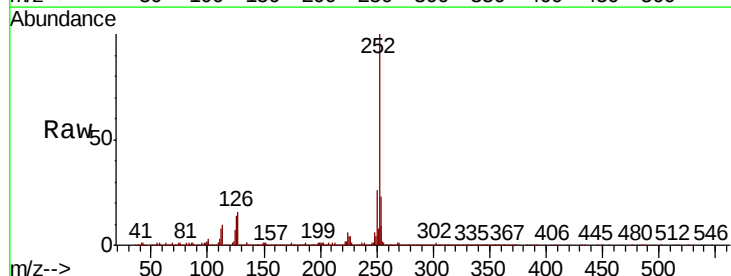
Instrument :
BNA_F
ClientSampleId :
SB-5(12.5-14.5)

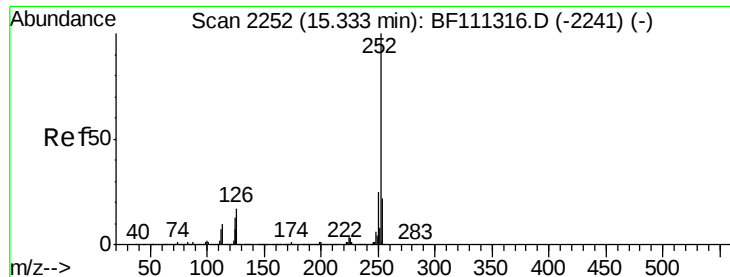
Tgt Ion:252 Resp: 4114808
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 13.9 10.4 15.6



#89
Benzo(k)fluoranthene
Concen: 262.897 ng
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF111345.D
Acq: 13 Dec 2018 2:08

Tgt Ion:252 Resp: 4114808
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 13.9 9.8 14.8





#90

Benzo(a)pyrene

Concen: 167.828 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.03 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

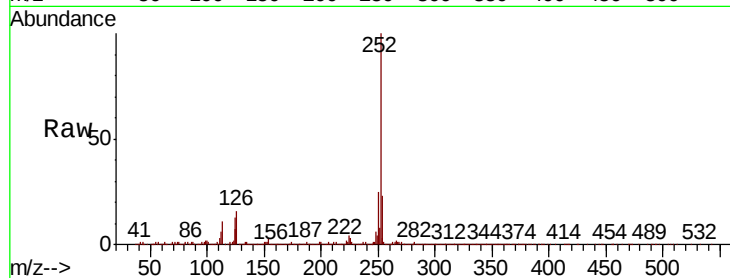
Tgt Ion:252 Resp: 2450304

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

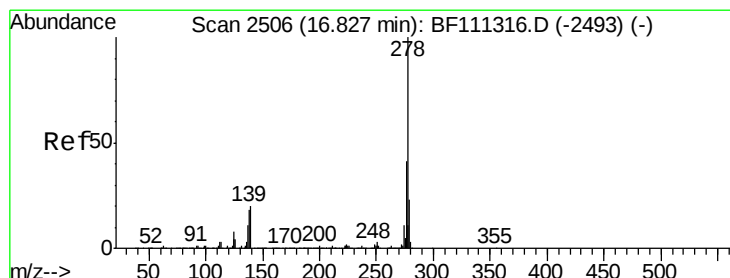
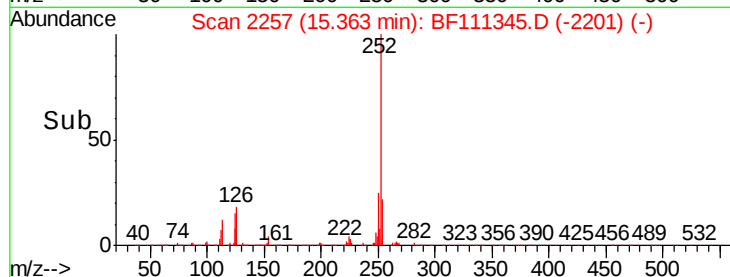
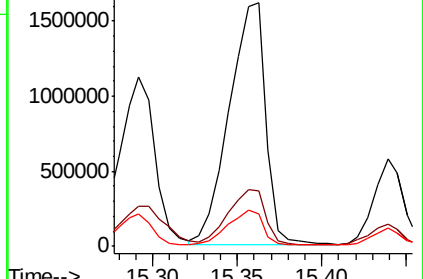
125 13.4 12.3 18.5



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

Dibenzo(a,h)anthracene

Concen: 27.283 ng

RT: 16.84 min Scan# 2509

Delta R.T. 0.02 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

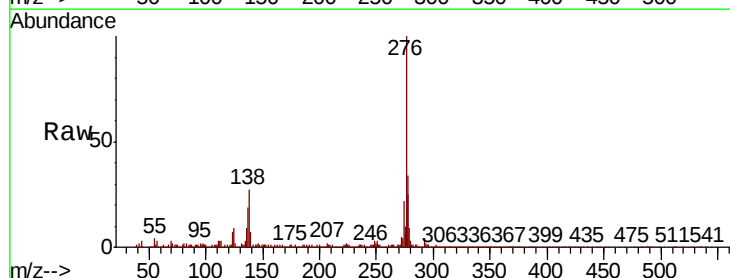
Tgt Ion:278 Resp: 331415

Ion Ratio Lower Upper

278 100

139 21.5 18.2 27.4

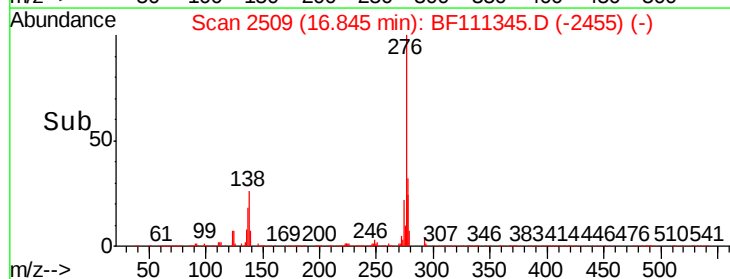
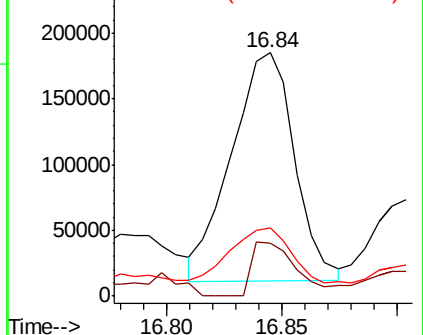
279 27.8 19.0 28.6

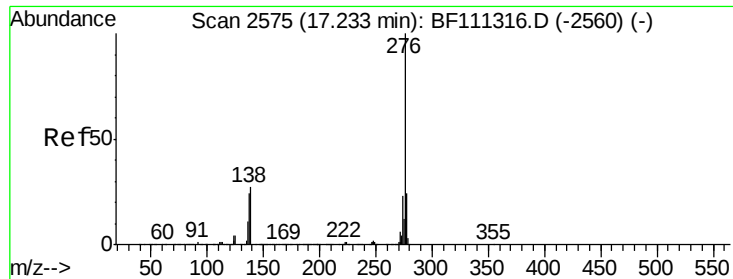


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 103.563 ng

RT: 17.27 min Scan# 2582

Delta R.T. 0.04 min

Lab File: BF111345.D

Acq: 13 Dec 2018 2:08

Instrument :

BNA_F

ClientSampleId :

SB-5(12.5-14.5)

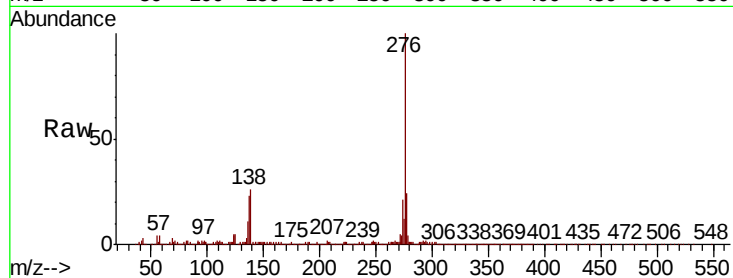
Tgt Ion:276 Resp: 1257732

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 26.3 24.9 37.3



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

