

Data File : BF095840.D
Acq On : 10 Jun 2017 1:15
Operator : SJ/MA
Sample : I3457-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-X

Quant Time: Jun 10 03:38:50 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 05 16:15:31 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.37	152	69039	20.00	ng	-0.03
21) Naphthalene-d8	9.40	136	274815	20.00	ng	-0.04
38) Acenaphthene-d10	12.22	164	112977	20.00	ng	-0.04
63) Phenanthrene-d10	14.62	188	171405	20.00	ng	-0.03
75) Chrysene-d12	18.34	240	133578	20.00	ng	-0.02
86) Perylene-d12	20.01	264	111628	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	379219	87.53	ng	-0.03
7) Phenol-d6	6.93	99	497108	95.84	ng	-0.03
23) Nitrobenzene-d5	8.28	82	276364	62.45	ng	-0.04
41) 2,4,6-Tribromophenol	13.52	330	84743	84.78	ng	-0.04
44) 2-Fluorobiphenyl	11.18	172	427412	52.65	ng	-0.04
78) Terphenyl-d14	16.99	244	239988	44.59	ng	-0.02

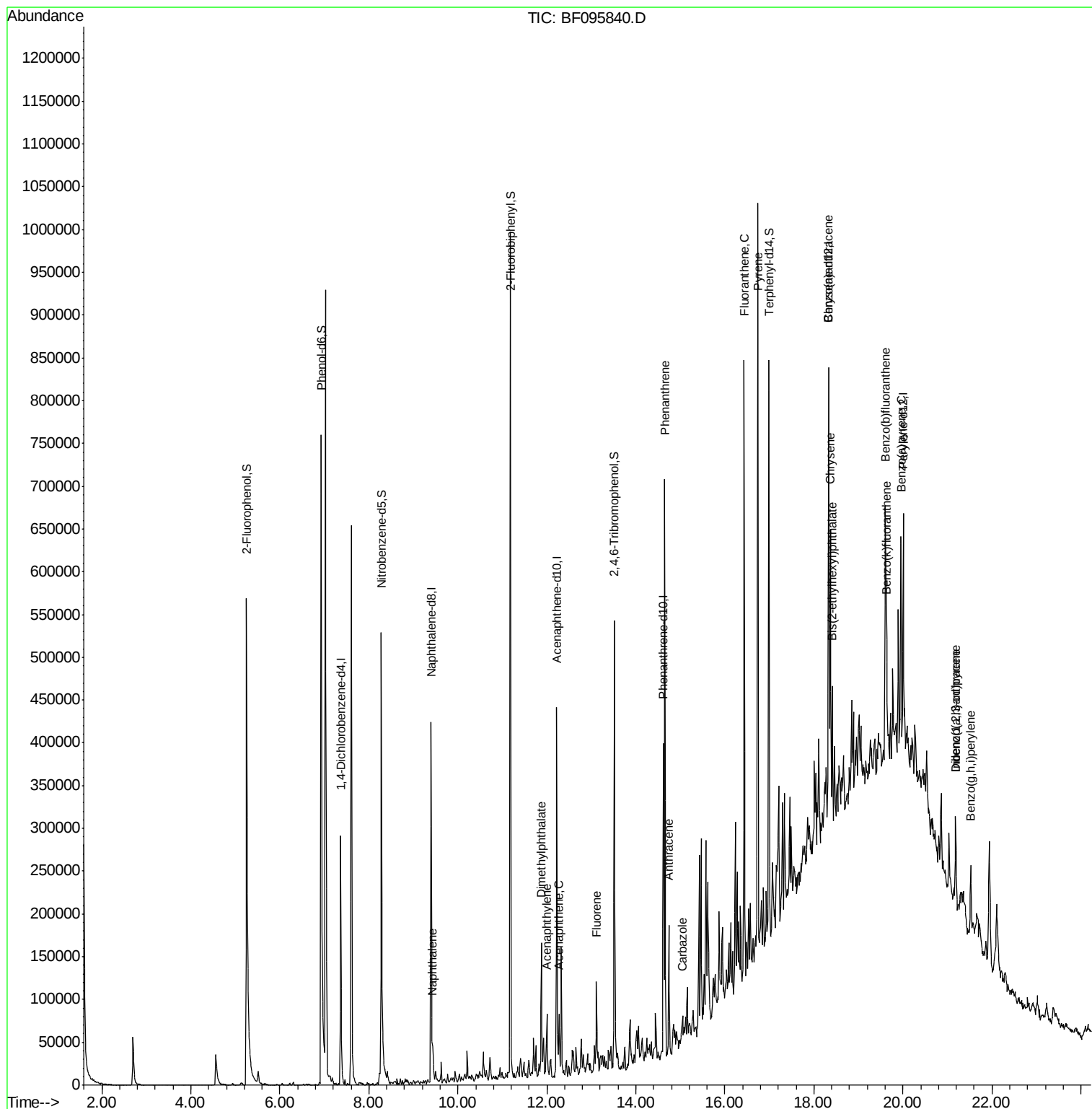
Target Compounds				Qvalue		
31) Naphthalene	9.43	128	31630	2.29	ng	97
48) Acenaphthylene	11.99	152	46227	3.72	ng	99
49) Dimethylphthalate	11.87	163	88500	10.32	ng	99
51) Acenaphthene	12.27	154	18403	2.56	ng	94
57) Fluorene	13.12	166	38507	4.38	ng	97
70) Phenanthrene	14.65	178	363568	36.76	ng	98
71) Anthracene	14.74	178	86590	8.39	ng	94
72) Carbazole	15.04	167	24005	2.39	ng	99
74) Fluoranthene	16.43	202	372475	38.05	ng	98
77) Pyrene	16.74	202	384848	38.61	ng	97
80) Benzo(a)anthracene	18.33	228	161522	20.80	ng	92
82) Chrysene	18.37	228	164565	21.20	ng	# 96
83) Bis(2-ethylhexyl)phthalate	18.42	149	53241	8.67	ng	# 98
85) Indeno(1,2,3-cd)pyrene	21.19	276	54755	8.25	ng	98
87) Benzo(b)fluoranthene	19.60	252	147597m	21.12	ng	
88) Benzo(k)fluoranthene	19.63	252	56265m	8.42	ng	
89) Benzo(a)pyrene	19.96	252	115548	17.99	ng	# 95
90) Dibenzo(a,h)anthracene	21.19	278	14478	2.66	ng	# 80
91) Benzo(g,h,i)perylene	21.52	276	54976	9.90	ng	93

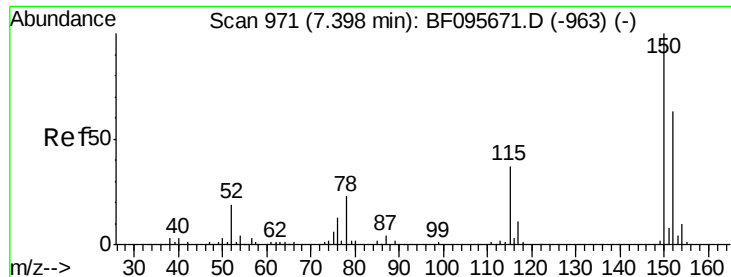
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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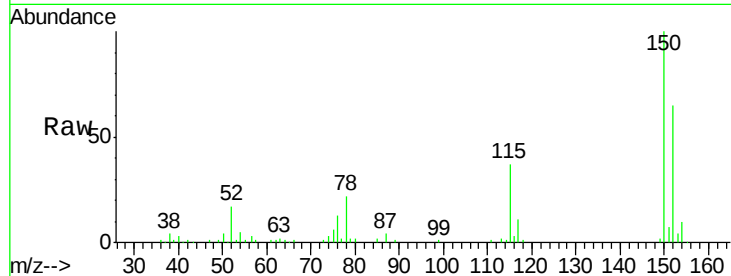


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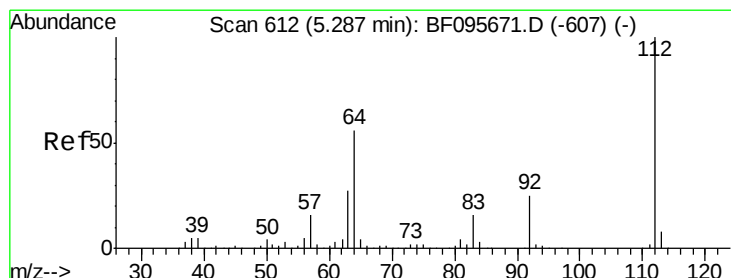
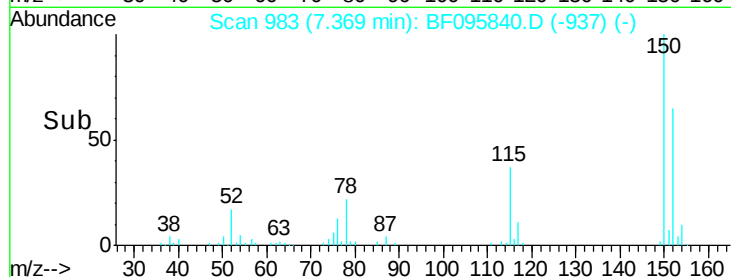
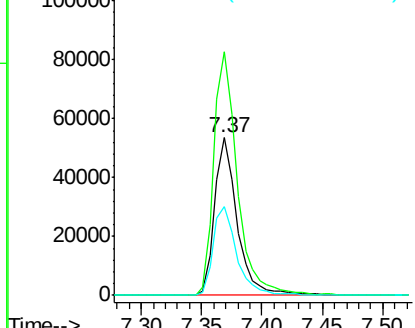
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.37 min Scan# 983
Delta R.T. -0.03 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Instrument :
BNA_F
ClientSampleId :
DUP-X

Tgt Ion:152 Resp: 69039
Ion Ratio Lower Upper
152 100
150 154.5 126.2 189.2
115 56.7 52.2 78.2



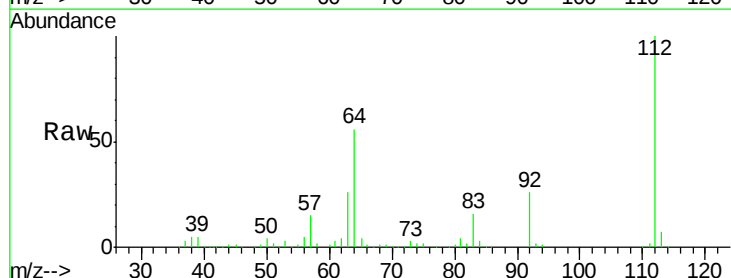
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



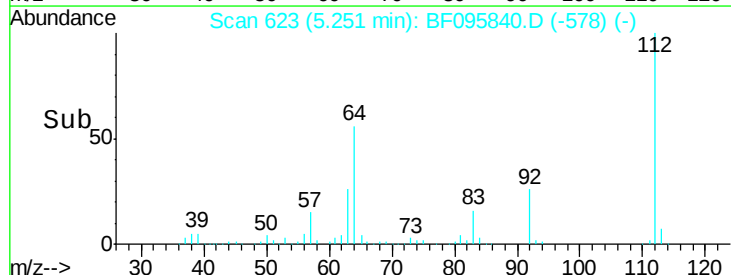
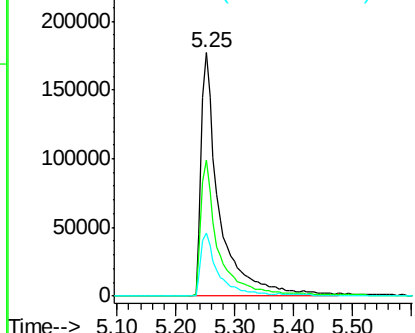
#5

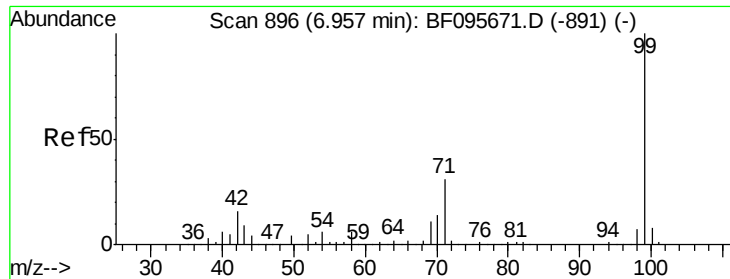
2-Fluorophenol
Concen: 87.53 ng
RT: 5.25 min Scan# 623
Delta R.T. -0.03 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Tgt Ion:112 Resp: 379219
Ion Ratio Lower Upper
112 100
64 56.1 46.0 69.0
63 26.1 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 95.84 ng

RT: 6.93 min Scan# 908

Delta R.T. -0.03 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

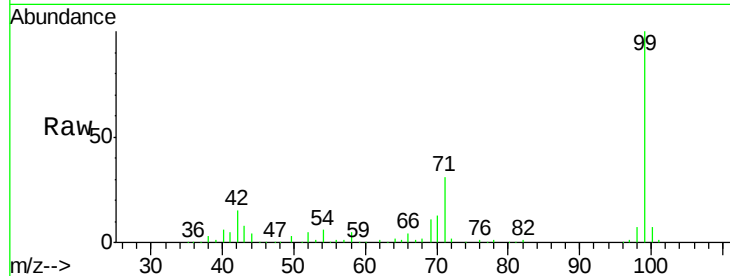
Tgt Ion: 99 Resp: 497108

Ion Ratio Lower Upper

99 100

42 15.4 13.5 20.3

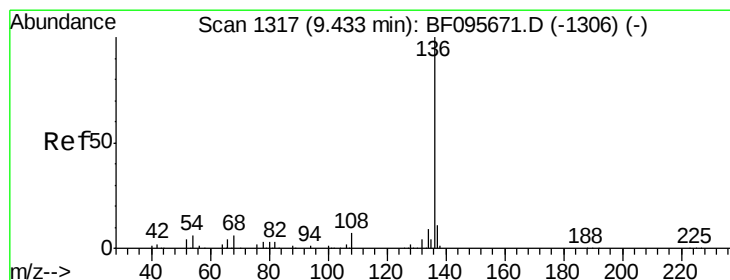
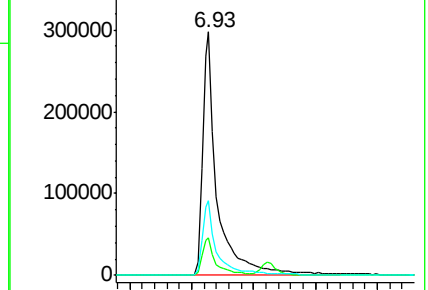
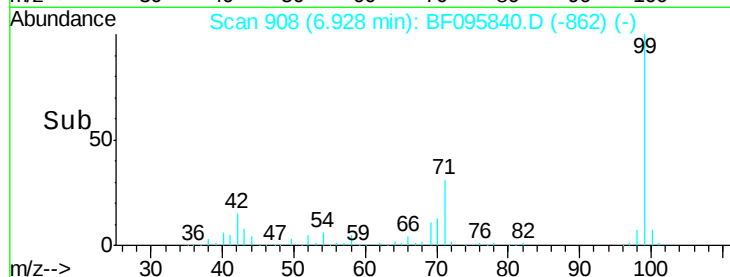
71 30.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.40 min Scan# 1328

Delta R.T. -0.04 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Tgt Ion: 136 Resp: 274815

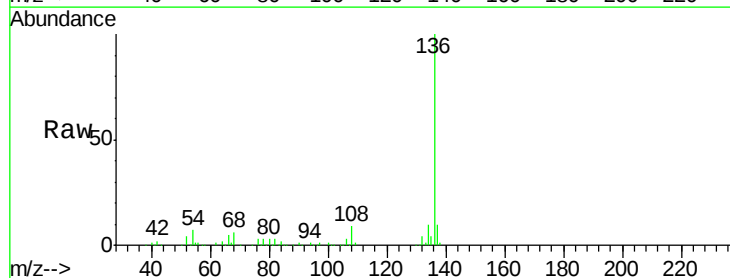
Ion Ratio Lower Upper

136 100

137 10.4 8.5 12.7

54 6.9 4.9 7.3

68 5.8 4.1 6.1

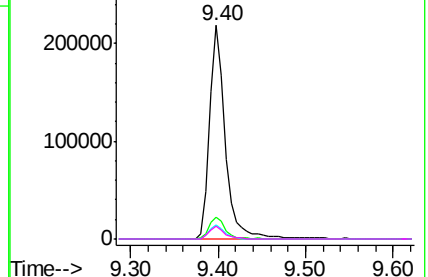
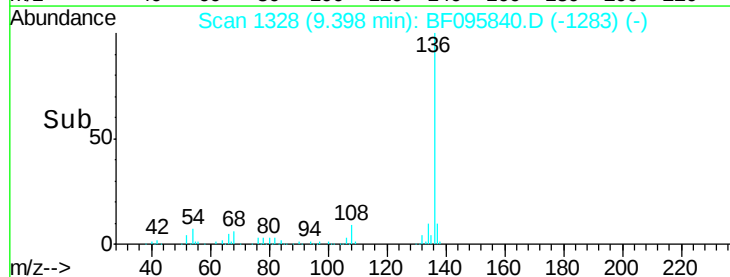


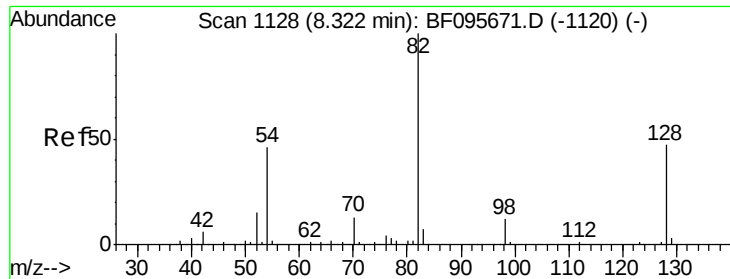
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

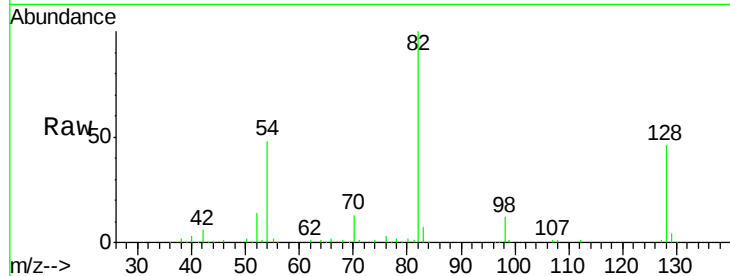




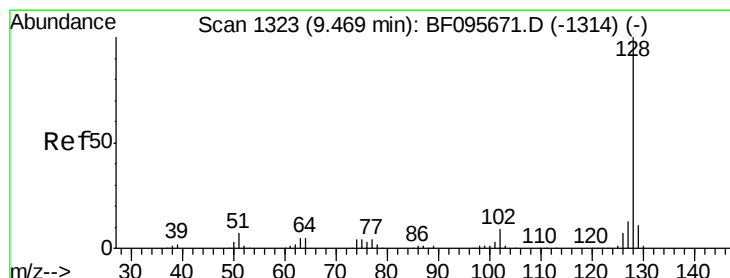
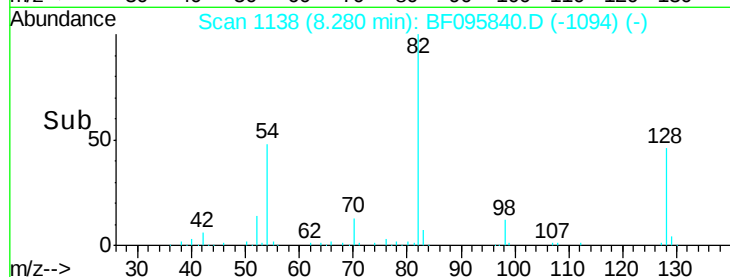
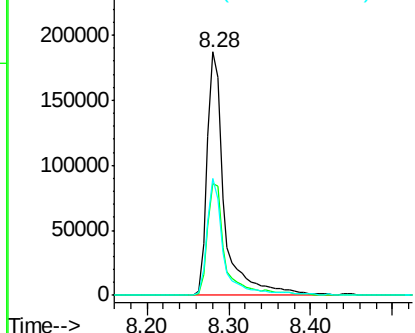
#23
Nitrobenzene-d5
Concen: 62.45 ng
RT: 8.28 min Scan# 1138
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Instrument :
BNA_F
ClientSampleId :
DUP-X

Tgt Ion: 82 Resp: 276364
Ion Ratio Lower Upper
82 100
128 46.0 34.0 51.0
54 47.9 42.2 63.2

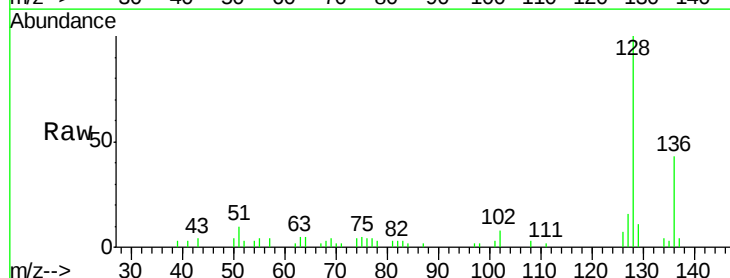


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

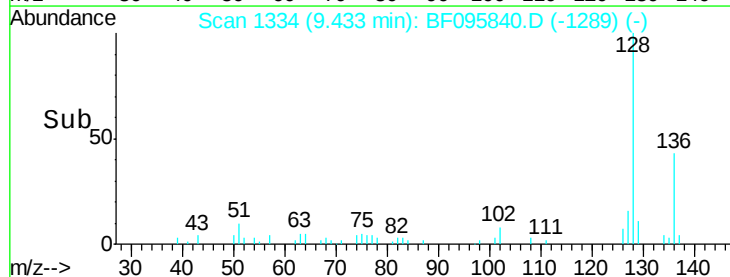
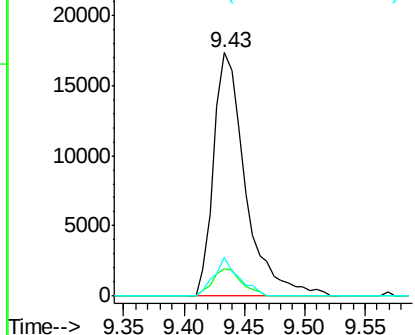


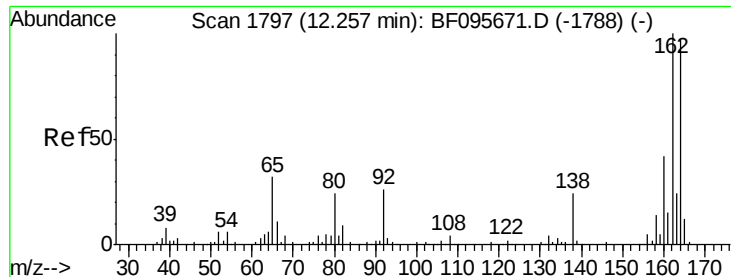
#31
Naphthalene
Concen: 2.29 ng
RT: 9.43 min Scan# 1334
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Tgt Ion: 128 Resp: 31630
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.6
127 15.7 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.22 min Scan# 1808

Delta R.T. -0.04 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

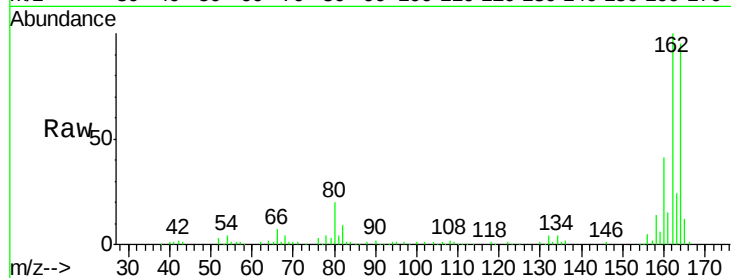
Tgt Ion:164 Resp: 112977

Ion Ratio Lower Upper

164 100

162 105.2 82.6 123.8

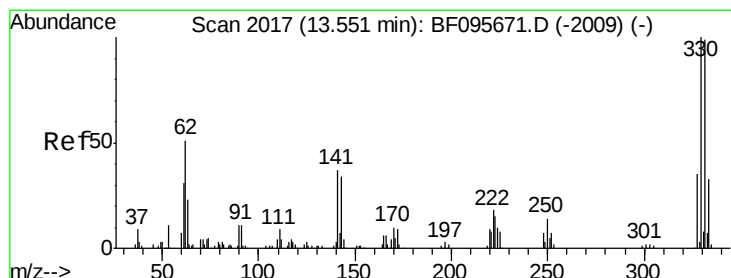
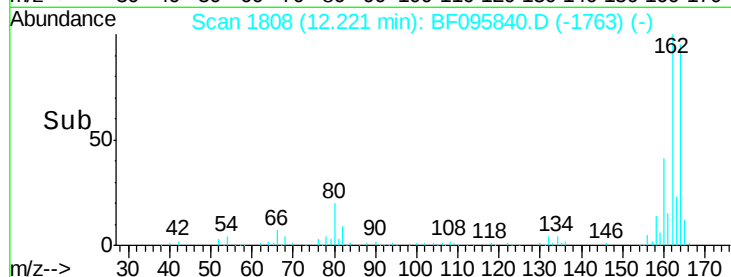
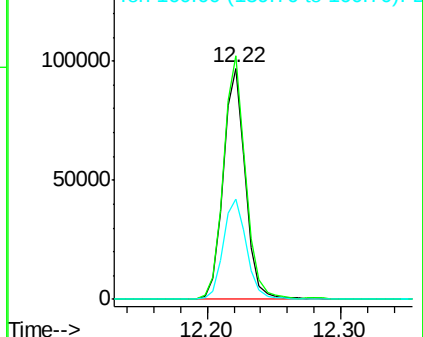
160 43.4 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 84.78 ng

RT: 13.52 min Scan# 2028

Delta R.T. -0.04 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

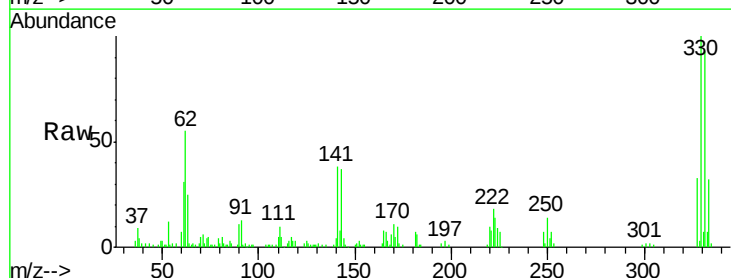
Tgt Ion:330 Resp: 84743

Ion Ratio Lower Upper

330 100

332 94.9 76.6 115.0

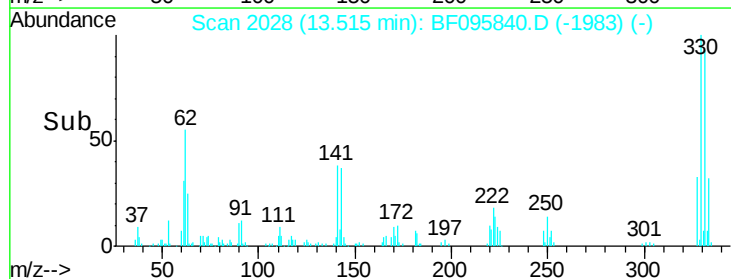
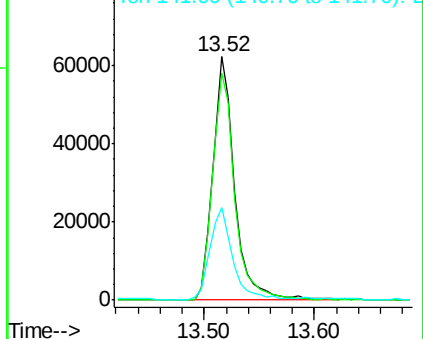
141 39.9 31.4 47.2

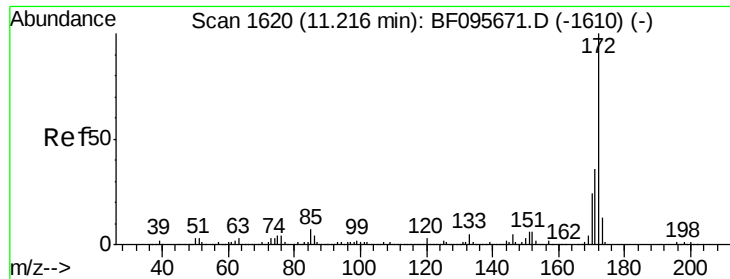


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

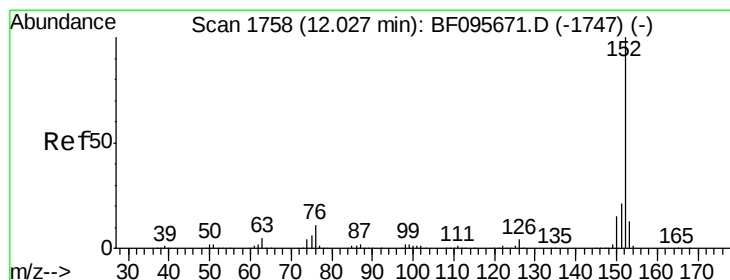
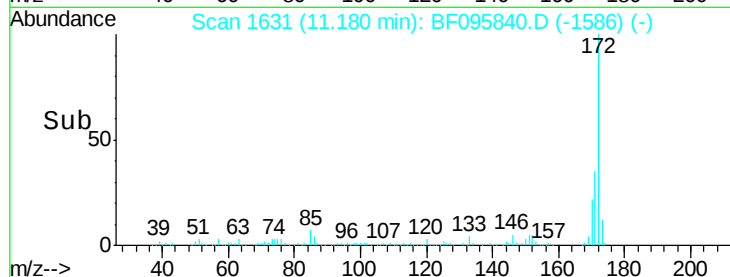
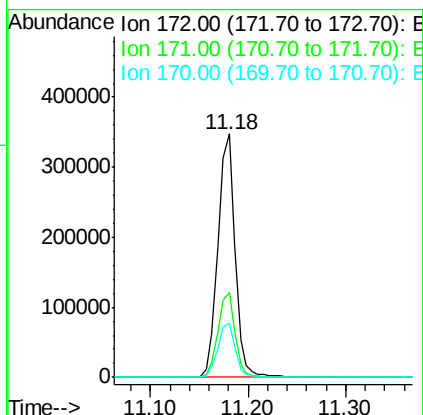
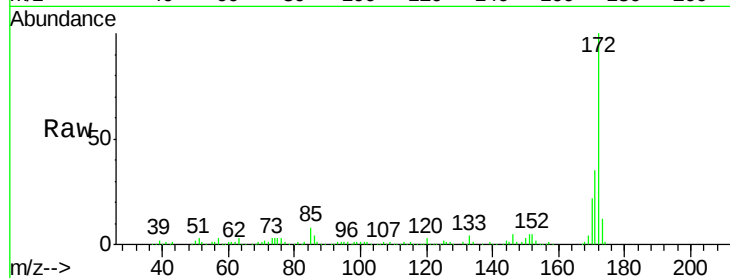




#44
2-Fluorobiphenyl
Concen: 52.65 ng
RT: 11.18 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

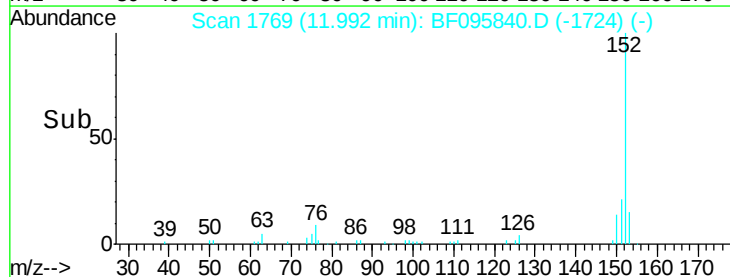
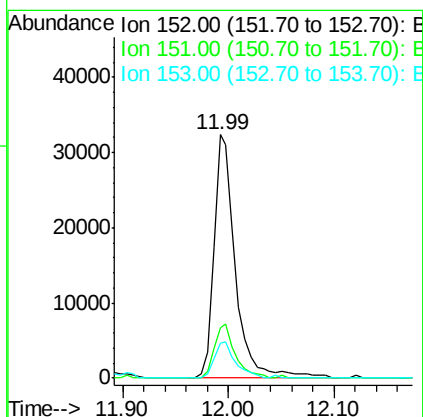
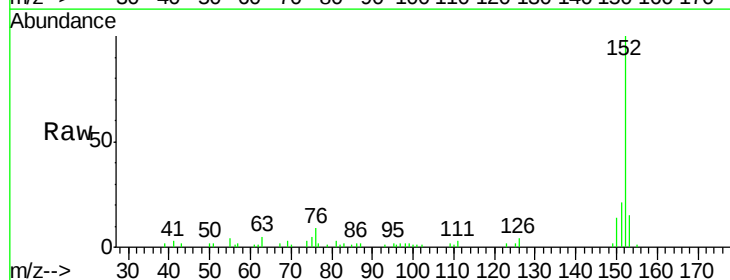
Instrument :
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DUP-X

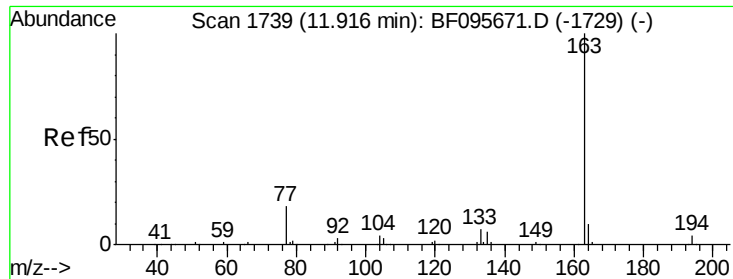
Tgt Ion:172 Resp: 427412
Ion Ratio Lower Upper
172 100
171 35.0 29.6 44.4
170 22.1 19.8 29.8



#48
Acenaphthylene
Concen: 3.72 ng
RT: 11.99 min Scan# 1769
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Tgt Ion:152 Resp: 46227
Ion Ratio Lower Upper
152 100
151 20.6 16.8 25.2
153 14.5 10.8 16.2

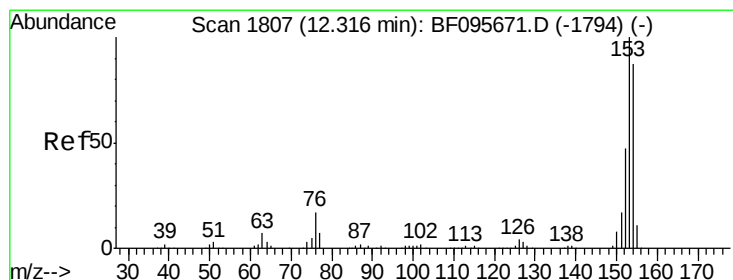
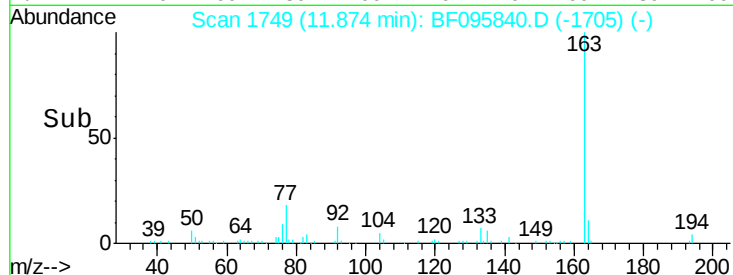
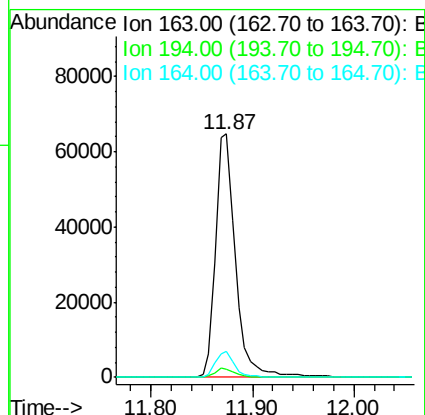
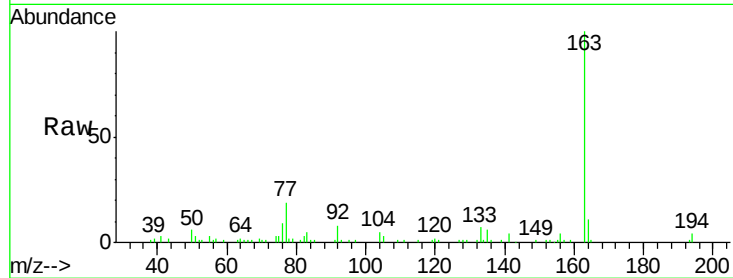




#49
Dimethylphthalate
Concen: 10.32 ng
RT: 11.87 min Scan# 1749
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

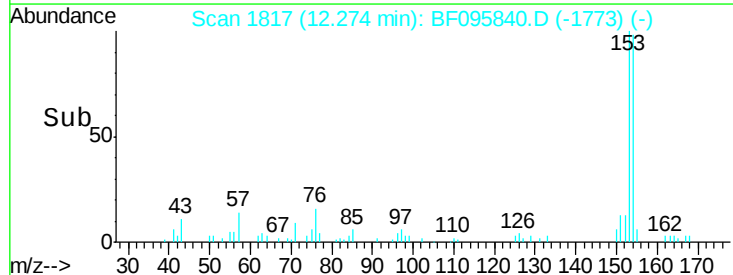
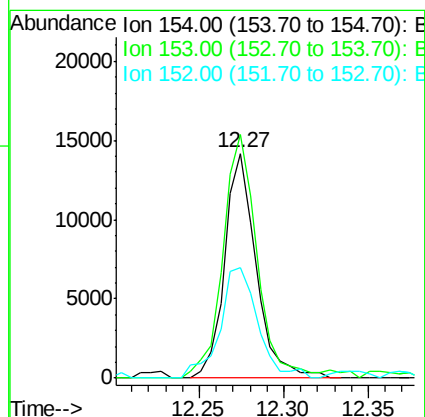
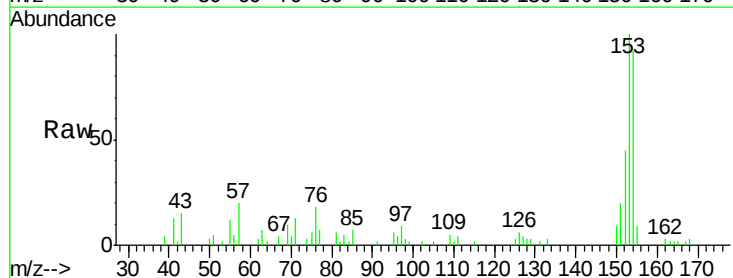
Instrument :
BNA_F
ClientSampleId :
DUP-X

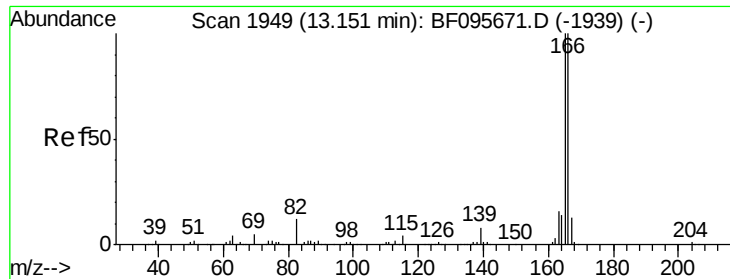
Tgt Ion:163 Resp: 88500
Ion Ratio Lower Upper
163 100
194 3.5 2.6 4.0
164 10.8 8.4 12.6



#51
Acenaphthene
Concen: 2.56 ng
RT: 12.27 min Scan# 1817
Delta R.T. -0.04 min
Lab File: BF095840.D
Acq: 10 Jun 2017 1:15

Tgt Ion:154 Resp: 18403
Ion Ratio Lower Upper
154 100
153 108.2 90.5 135.7
152 49.0 43.6 65.4

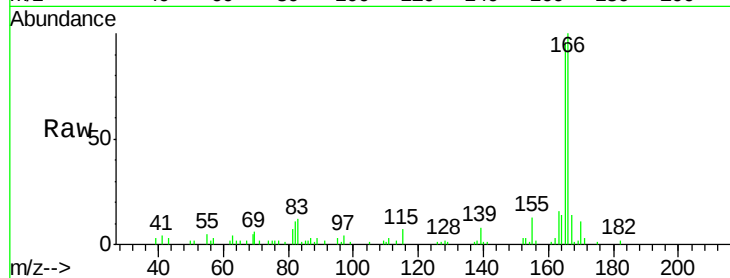




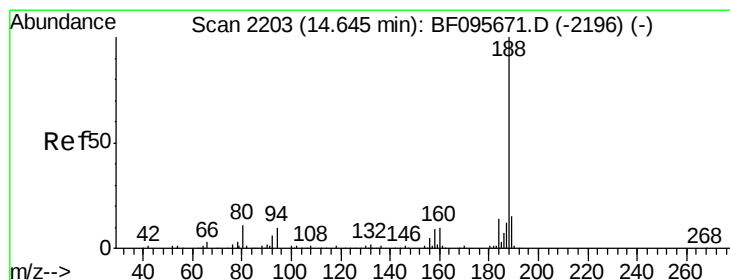
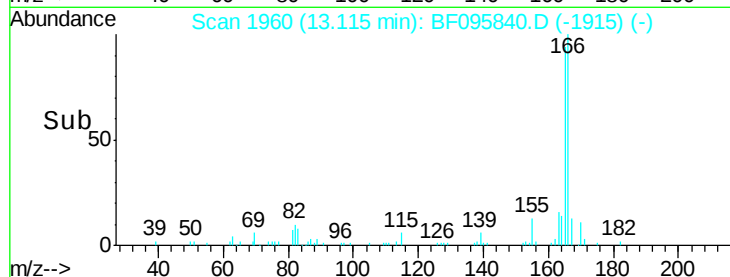
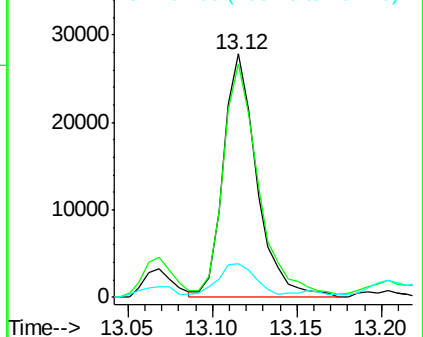
#57
Fluorene
 Concen: 4.38 ng
 RT: 13.12 min Scan# 1960
 Delta R.T. -0.04 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

Instrument :
 BNA_F
 ClientSampleId :
 DUP-X

Tgt Ion:166 Resp: 38507
 Ion Ratio Lower Upper
 166 100
 165 95.7 78.8 118.2
 167 14.0 10.6 16.0

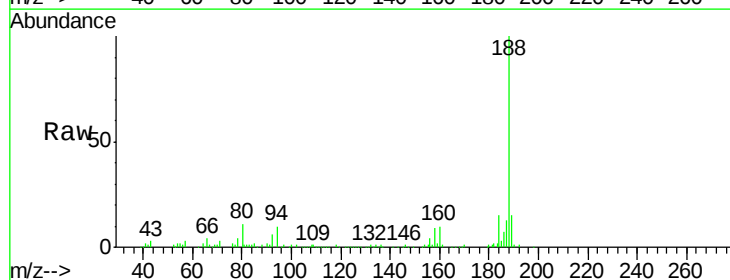


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

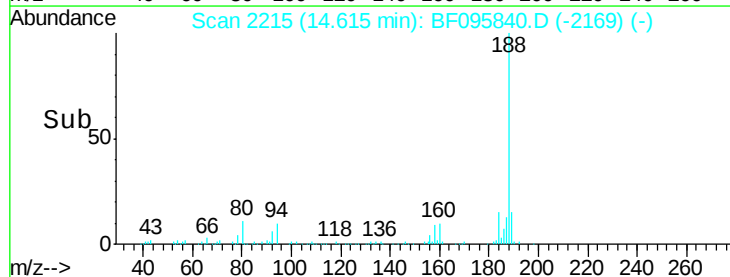
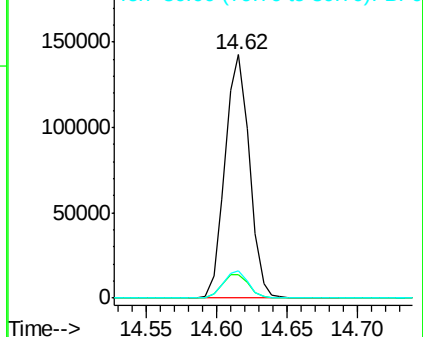


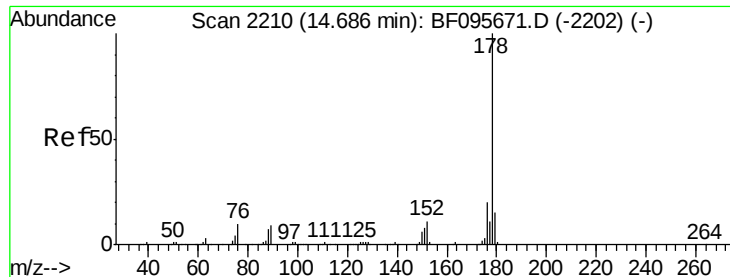
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.62 min Scan# 2215
 Delta R.T. -0.03 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

Tgt Ion:188 Resp: 171405
 Ion Ratio Lower Upper
 188 100
 94 9.8 9.4 14.2
 80 11.4 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 36.76 ng

RT: 14.65 min Scan# 2221

Delta R.T. -0.04 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

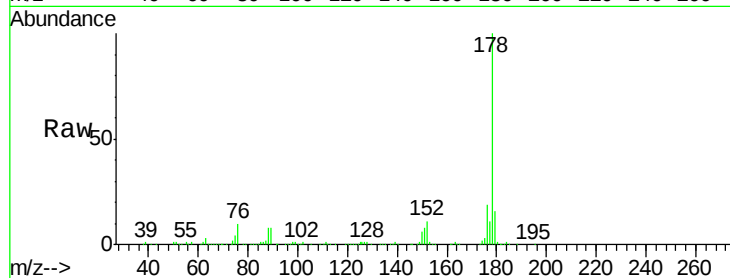
Tgt Ion:178 Resp: 363568

Ion Ratio Lower Upper

178 100

176 18.9 16.2 24.4

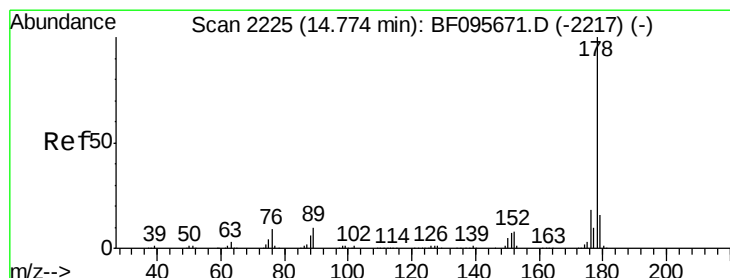
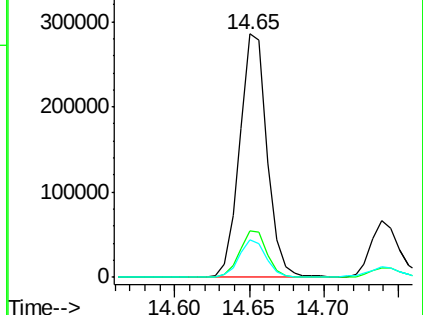
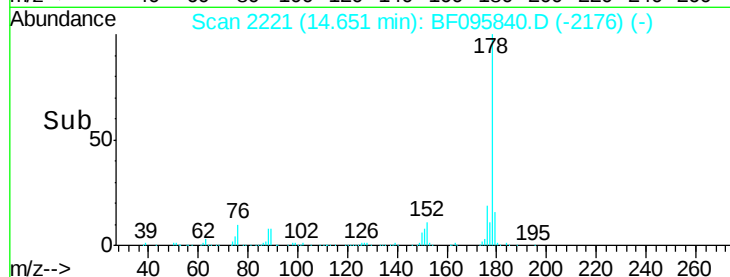
179 15.6 12.6 19.0



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



#71

Anthracene

Concen: 8.39 ng

RT: 14.74 min Scan# 2236

Delta R.T. -0.04 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

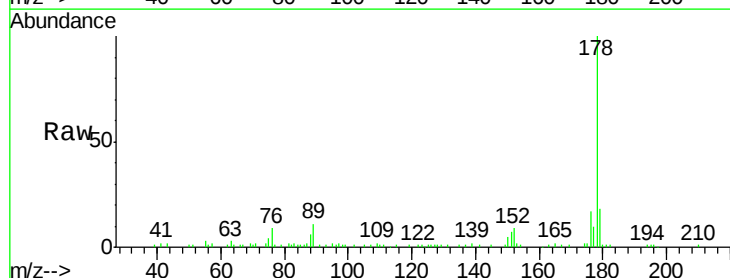
Tgt Ion:178 Resp: 86590

Ion Ratio Lower Upper

178 100

176 17.0 15.8 23.8

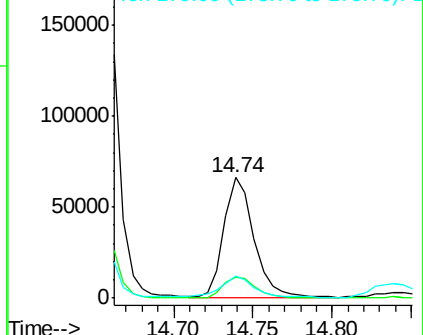
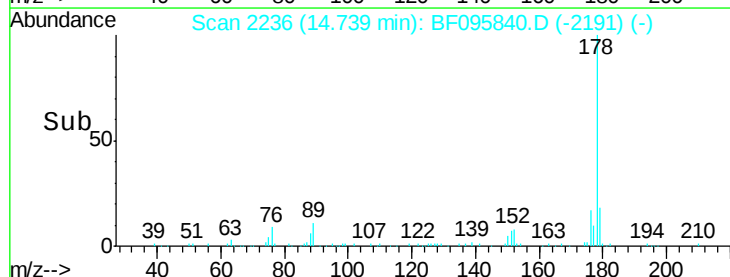
179 17.9 12.7 19.1

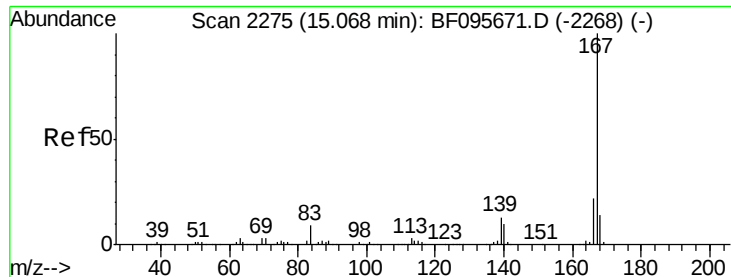


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.39 ng

RT: 15.04 min Scan# 2288

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

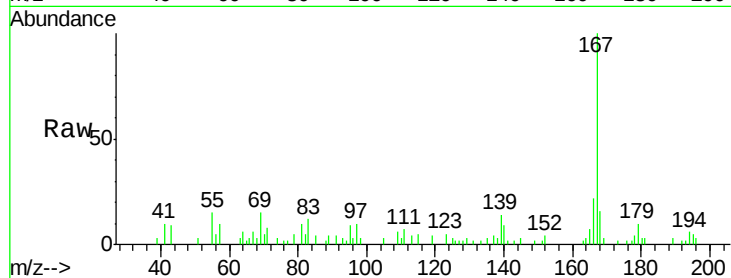
Tgt Ion:167 Resp: 24005

Ion Ratio Lower Upper

167 100

166 22.1 18.1 27.1

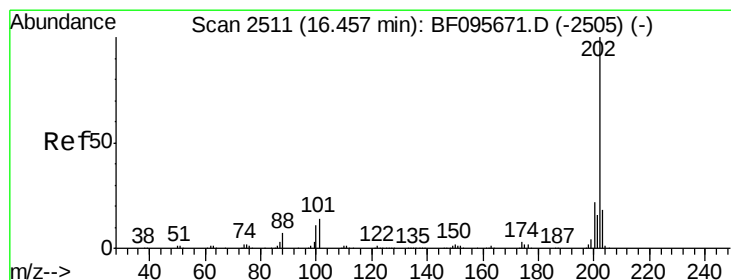
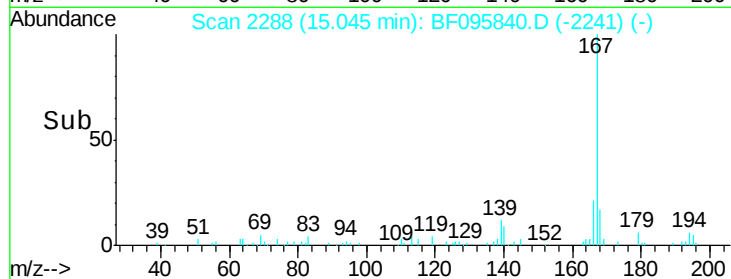
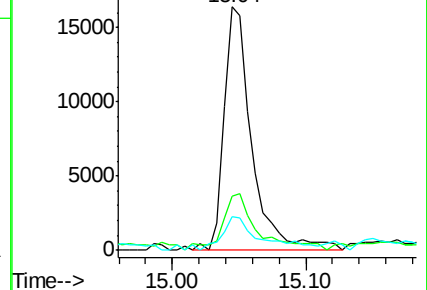
139 14.0 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 38.05 ng

RT: 16.43 min Scan# 2524

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

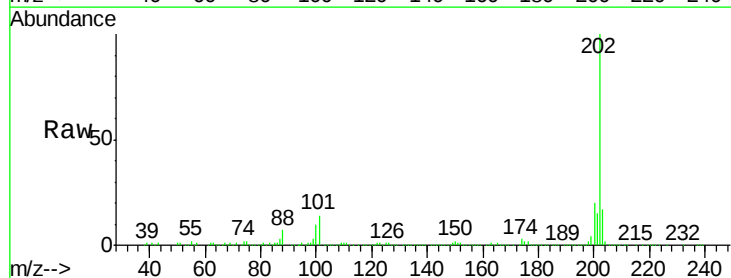
Tgt Ion:202 Resp: 372475

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

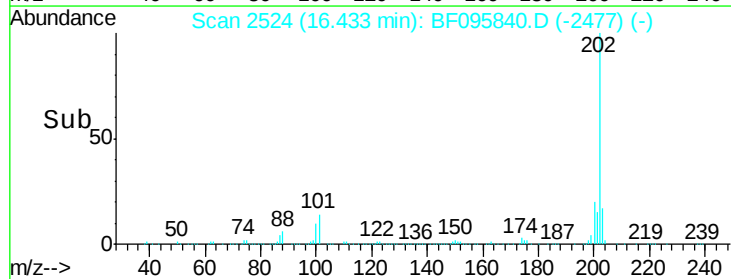
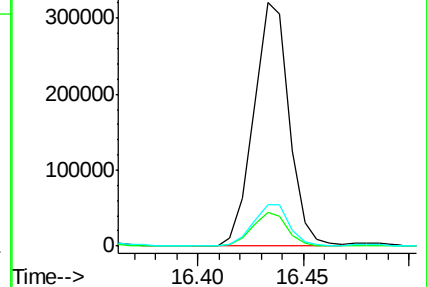
203 17.0 0.0 38.1

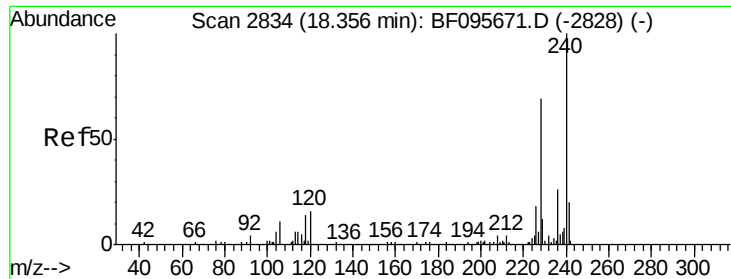


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.34 min Scan# 2848

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

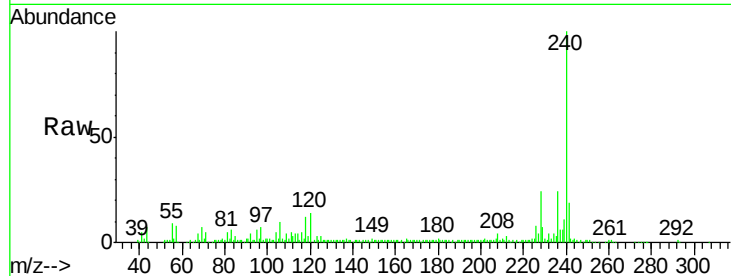
Tgt Ion:240 Resp: 133578

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

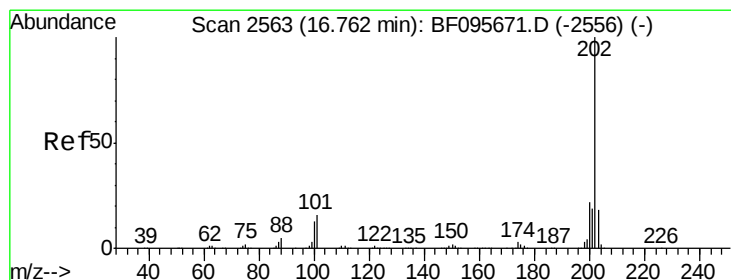
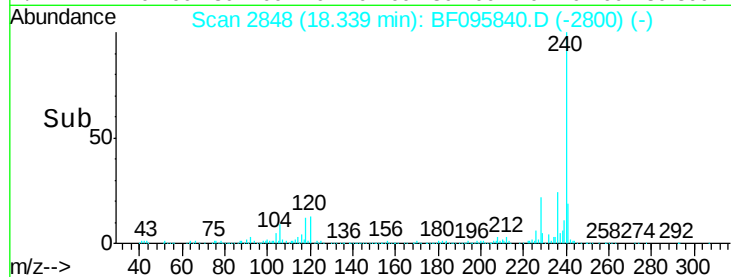
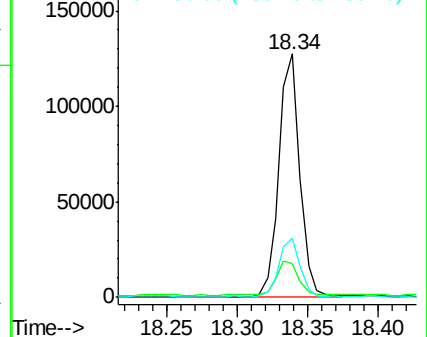
236 24.2 20.5 30.7



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

Pyrene

Concen: 38.61 ng

RT: 16.74 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

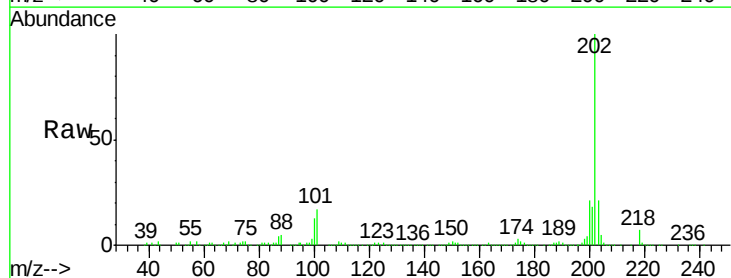
Tgt Ion:202 Resp: 384848

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

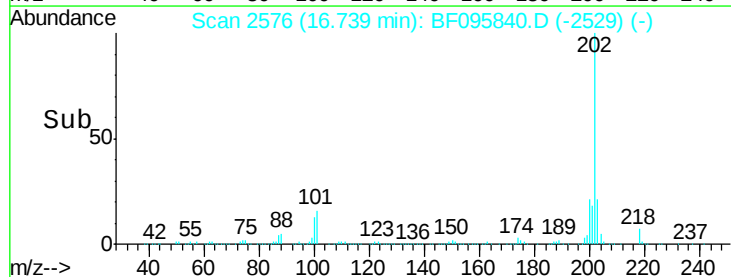
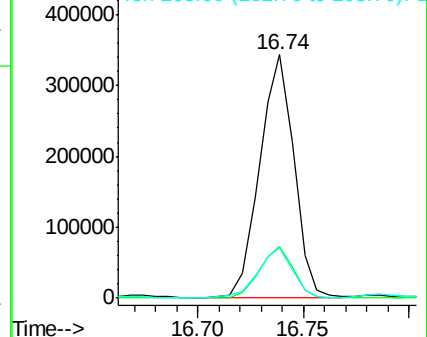
203 20.8 14.4 21.6

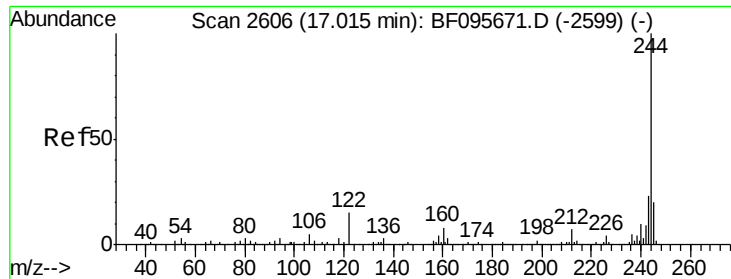


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

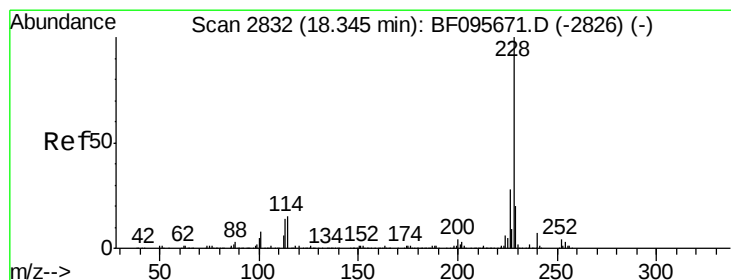
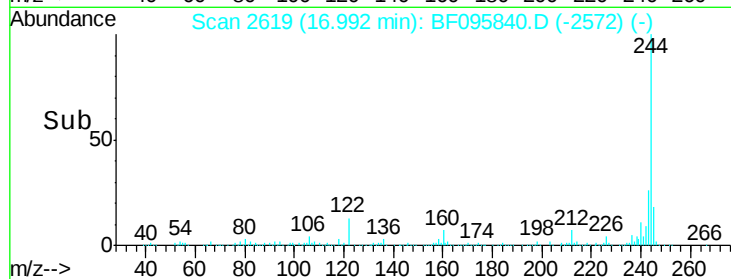
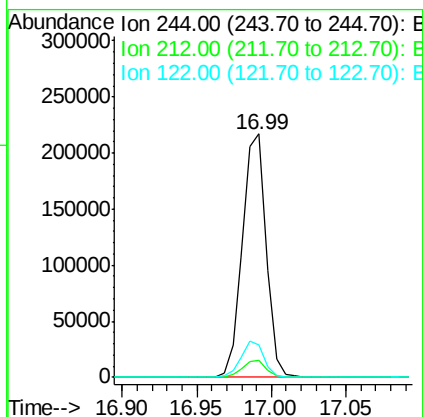
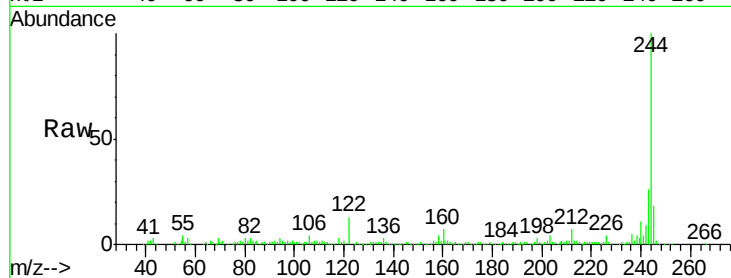




#78
 Terphenyl-d14
 Concen: 44.59 ng
 RT: 16.99 min Scan# 2619
 Delta R.T. -0.02 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

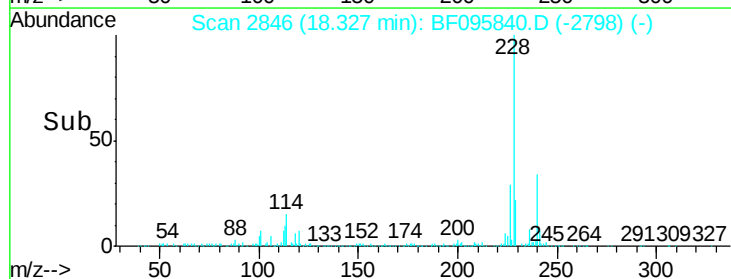
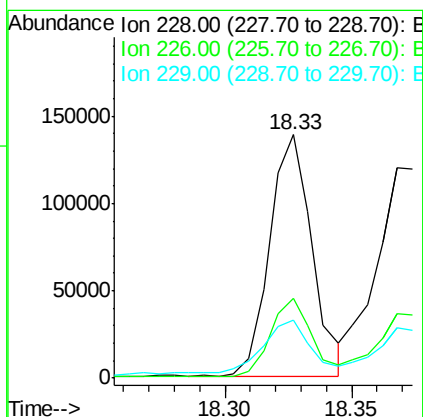
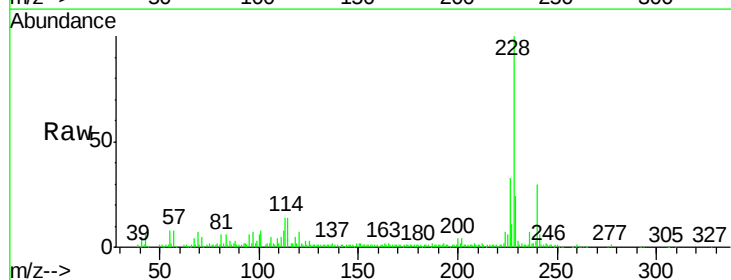
Instrument :
 BNA_F
 ClientSampled :
 DUP-X

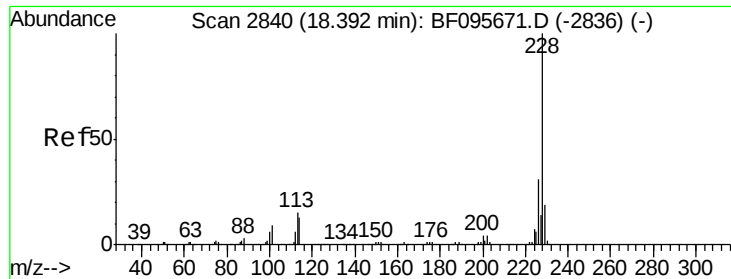
Tgt Ion: 244 Resp: 239988
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 13.1 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 20.80 ng
 RT: 18.33 min Scan# 2846
 Delta R.T. -0.02 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

Tgt Ion: 228 Resp: 161522
 Ion Ratio Lower Upper
 228 100
 226 33.0 22.6 33.8
 229 23.7 16.3 24.5





#82

Chrysene

Concen: 21.20 ng

RT: 18.37 min Scan# 2853

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

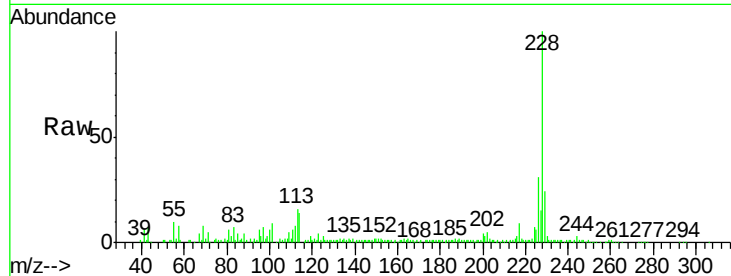
Tgt Ion: 228 Resp: 164565

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

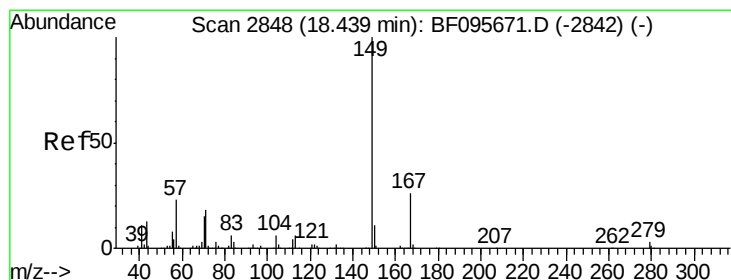
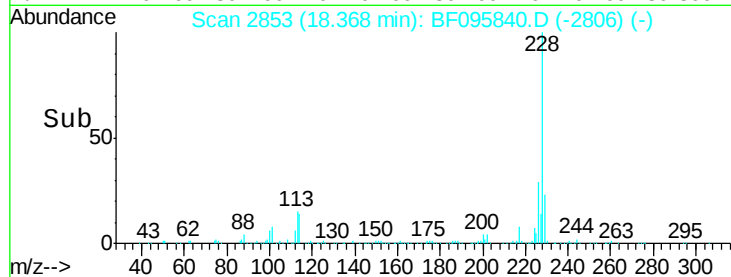
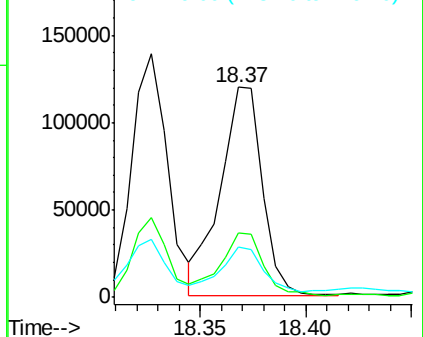
229 24.2 15.8 23.6#



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

Bis(2-ethylhexyl)phthalate

Concen: 8.67 ng

RT: 18.42 min Scan# 2861

Delta R.T. -0.02 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

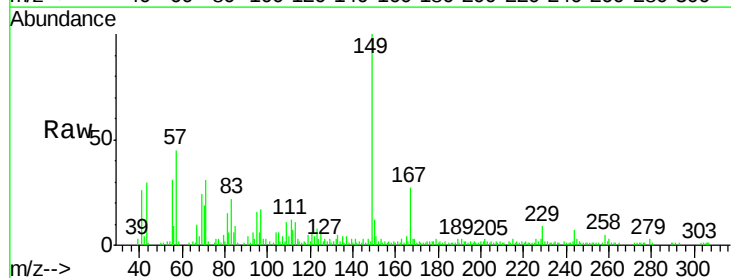
Tgt Ion: 149 Resp: 53241

Ion Ratio Lower Upper

149 100

167 27.4 21.0 31.4

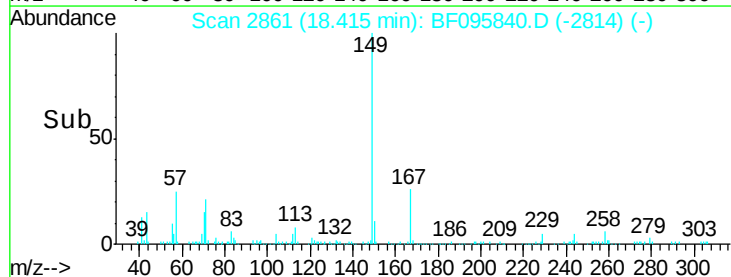
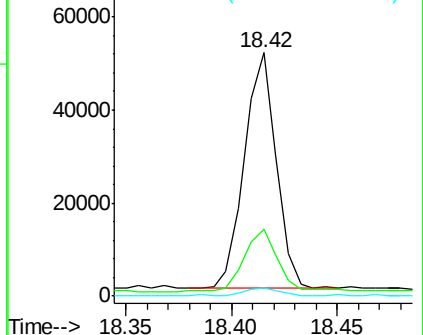
279 3.4 1.9 2.9#

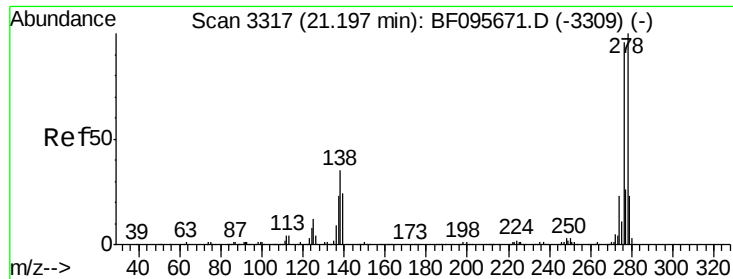


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

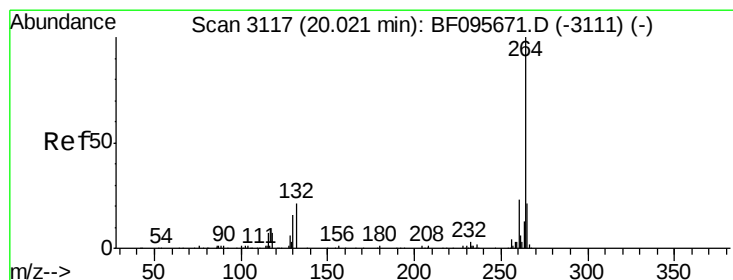
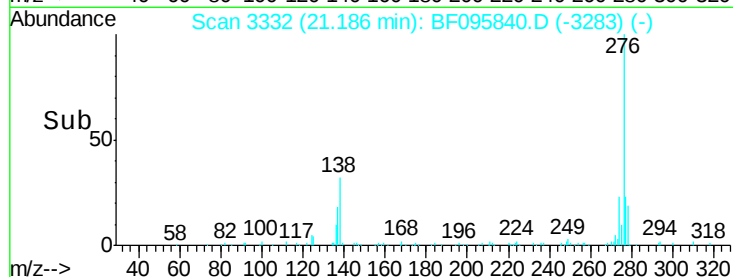
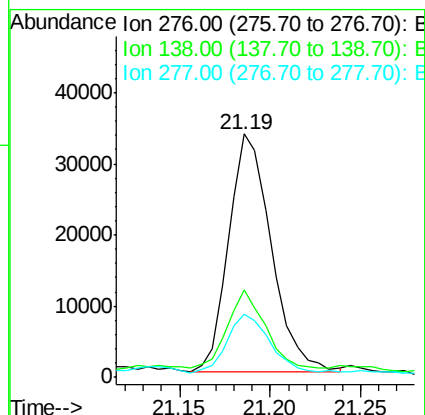
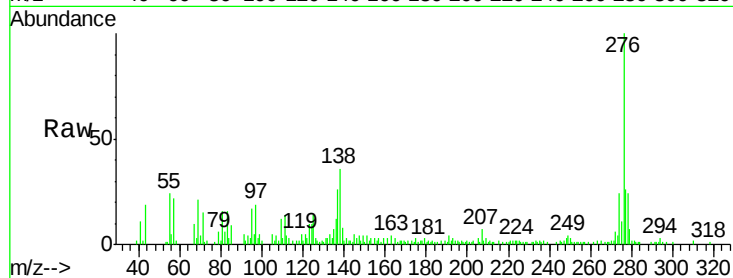




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.25 ng
 RT: 21.19 min Scan# 3332
 Delta R.T. -0.01 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

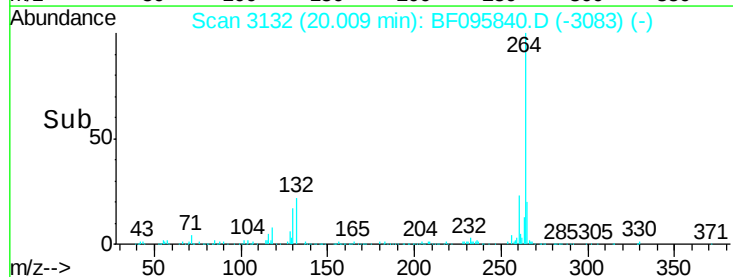
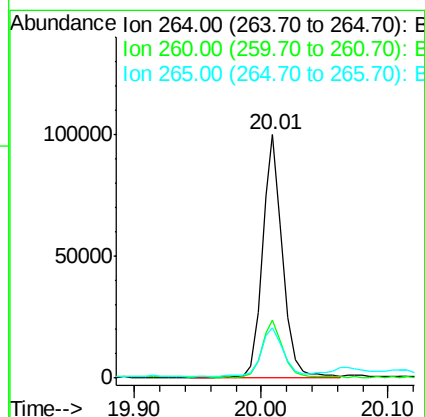
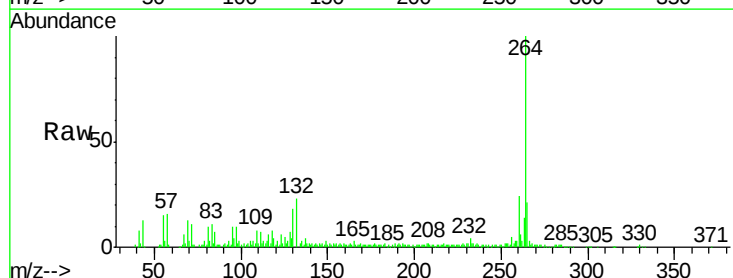
Instrument :
 BNA_F
 ClientSampleId :
 DUP-X

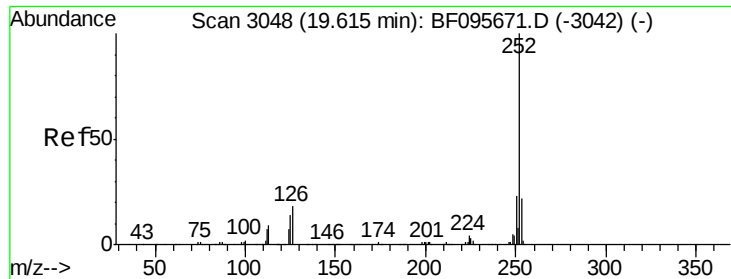
Tgt Ion:276 Resp: 54755
 Ion Ratio Lower Upper
 276 100
 138 32.7 27.8 41.6
 277 24.8 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.01 min Scan# 3132
 Delta R.T. -0.01 min
 Lab File: BF095840.D
 Acq: 10 Jun 2017 1:15

Tgt Ion:264 Resp: 111628
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.5 29.3
 265 20.9 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 21.12 ng m

RT: 19.60 min Scan# 3063

Delta R.T. -0.01 min

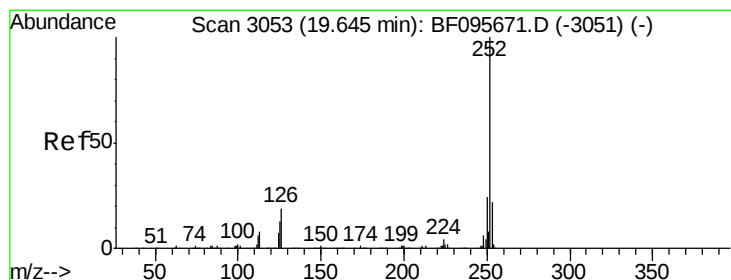
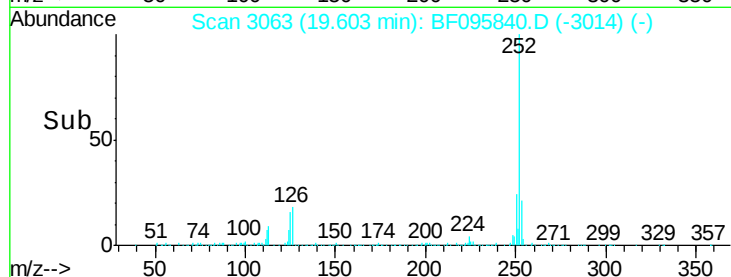
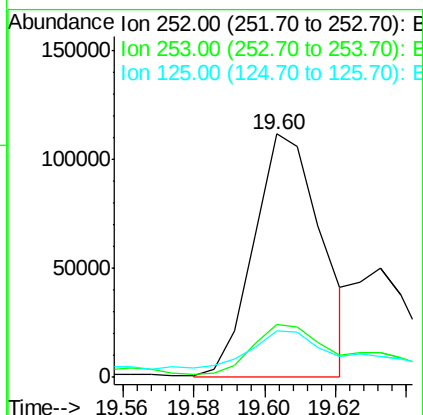
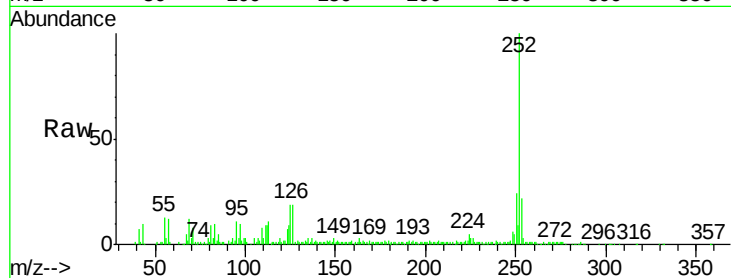
Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :
BNA_F
ClientSampled :
DUP-X

Tgt Ion: 252 Resp: 147597

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	19.3	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 8.42 ng m

RT: 19.63 min Scan# 3068

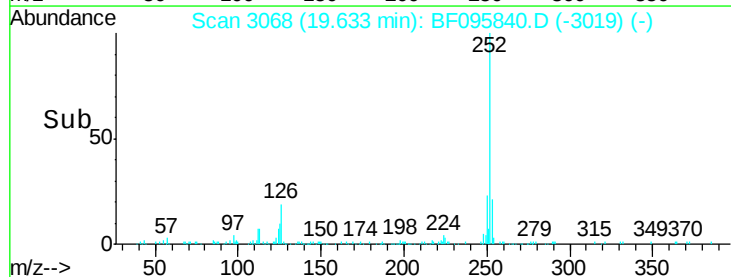
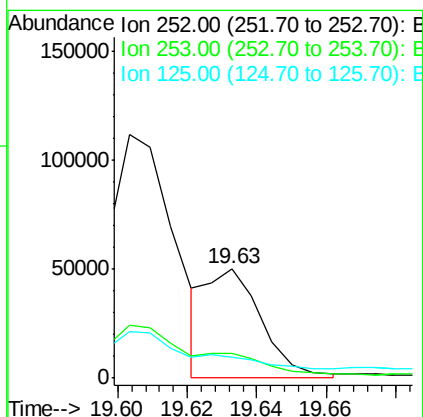
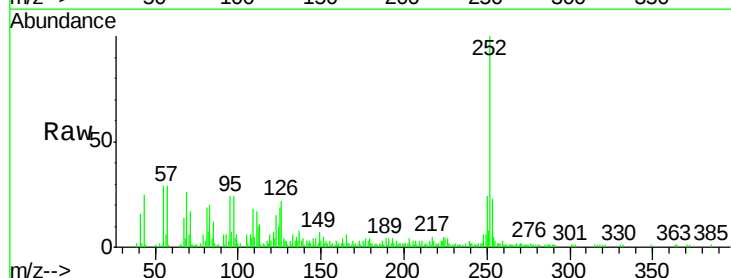
Delta R.T. -0.01 min

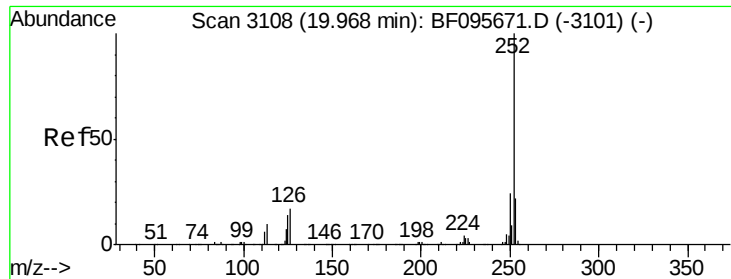
Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Tgt Ion: 252 Resp: 56265

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	19.4	13.1	19.7





#89

Benzo(a)pyrene

Concen: 17.99 ng

RT: 19.96 min Scan# 3123

Delta R.T. -0.01 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

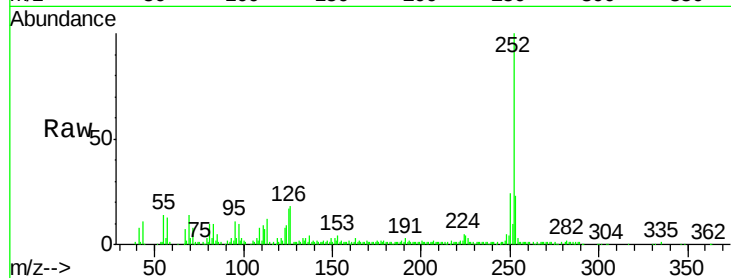
Tgt Ion:252 Resp: 115548

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

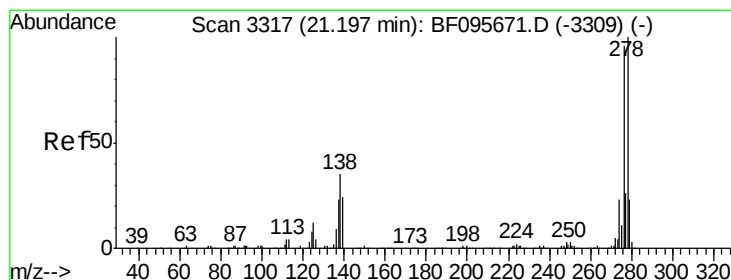
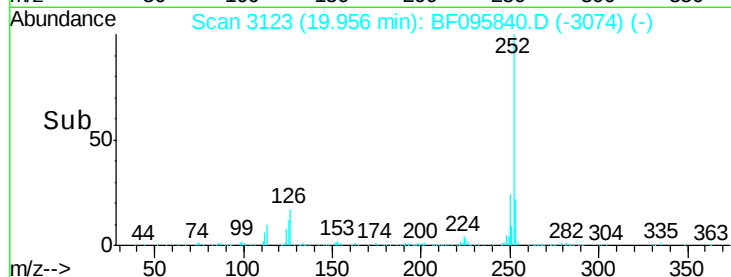
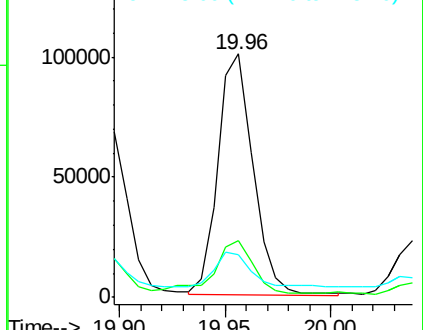
125 17.3 11.0 16.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.66 ng

RT: 21.19 min Scan# 3332

Delta R.T. -0.01 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

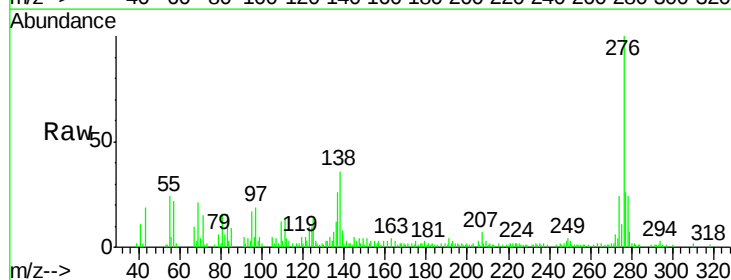
Tgt Ion:278 Resp: 14478

Ion Ratio Lower Upper

278 100

139 34.5 16.6 24.8#

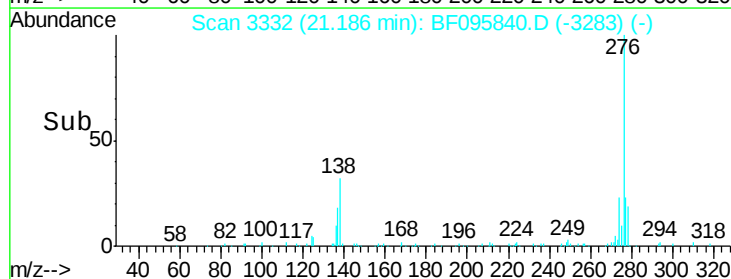
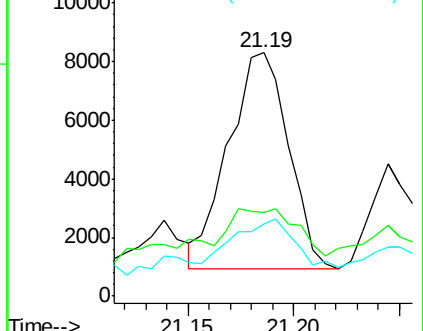
279 29.8 19.3 28.9#

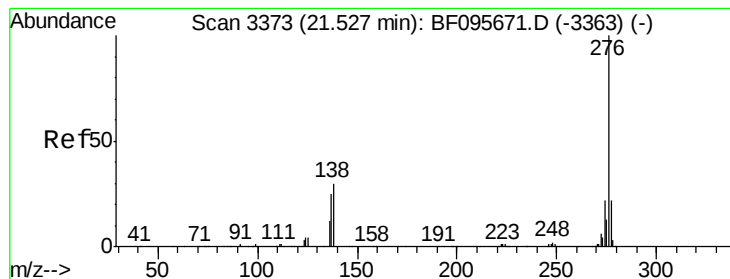


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 9.90 ng

RT: 21.52 min Scan# 3389

Delta R.T. -0.01 min

Lab File: BF095840.D

Acq: 10 Jun 2017 1:15

Instrument :

BNA_F

ClientSampleId :

DUP-X

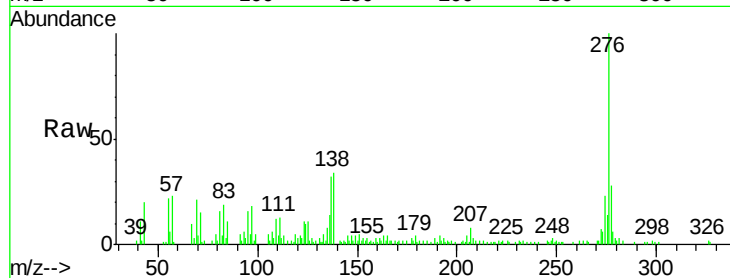
Tgt Ion: 276 Resp: 54976

Ion Ratio Lower Upper

276 100

277 27.8 18.6 28.0

138 34.4 25.4 38.0



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

