

Data File : BF095815.D
Acq On : 9 Jun 2017 11:43
Operator : SJ/MA
Sample : I3457-04
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S-16

Quant Time: Jun 10 01:37:46 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	70826	20.00	ng	-0.03
21) Naphthalene-d8	9.40	136	285839	20.00	ng	-0.04
38) Acenaphthene-d10	12.22	164	129948	20.00	ng	-0.04
63) Phenanthrene-d10	14.62	188	227113	20.00	ng	-0.03
75) Chrysene-d12	18.33	240	148326	20.00	ng	-0.02
86) Perylene-d12	20.00	264	138398	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	521305	117.28	ng	-0.02
7) Phenol-d6	6.93	99	631375	118.65	ng	-0.03
23) Nitrobenzene-d5	8.28	82	356995	77.56	ng	-0.04
41) 2,4,6-Tribromophenol	13.52	330	126807	110.29	ng	-0.04
44) 2-Fluorobiphenyl	11.18	172	598321	64.07	ng	-0.04
78) Terphenyl-d14	16.99	244	426210	71.31	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	9.43	128	53247	3.71	ng	98
49) Dimethylphthalate	11.87	163	88652	8.99	ng	100
54) Dibenzofuran	12.56	168	30126	2.59	ng	95
70) Phenanthrene	14.65	178	324127	24.73	ng	98
71) Anthracene	14.74	178	45954m	3.36	ng	
72) Carbazole	15.04	167	28249	2.12	ng	99
74) Fluoranthene	16.43	202	331563	25.56	ng	98
77) Pyrene	16.73	202	283156	25.58	ng	97
80) Benzo(a)anthracene	18.32	228	90316	10.47	ng	95
82) Chrysene	18.36	228	98548	11.43	ng	99
83) Bis(2-ethylhexyl)phthalate	18.41	149	54136	7.94	ng	# 99
85) Indeno(1,2,3-cd)pyrene	21.18	276	42587	5.78	ng	# 90
87) Benzo(b)fluoranthene	19.60	252	98480m	11.36	ng	
88) Benzo(k)fluoranthene	19.63	252	34060m	4.11	ng	
89) Benzo(a)pyrene	19.94	252	72132	9.06	ng	# 91
91) Benzo(g,h,i)perylene	21.51	276	41706	6.05	ng	95

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

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Misc :

ALS Vial : 4 Sample Multiplier: 1

Instrument :

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ClientSampleId :

S-16

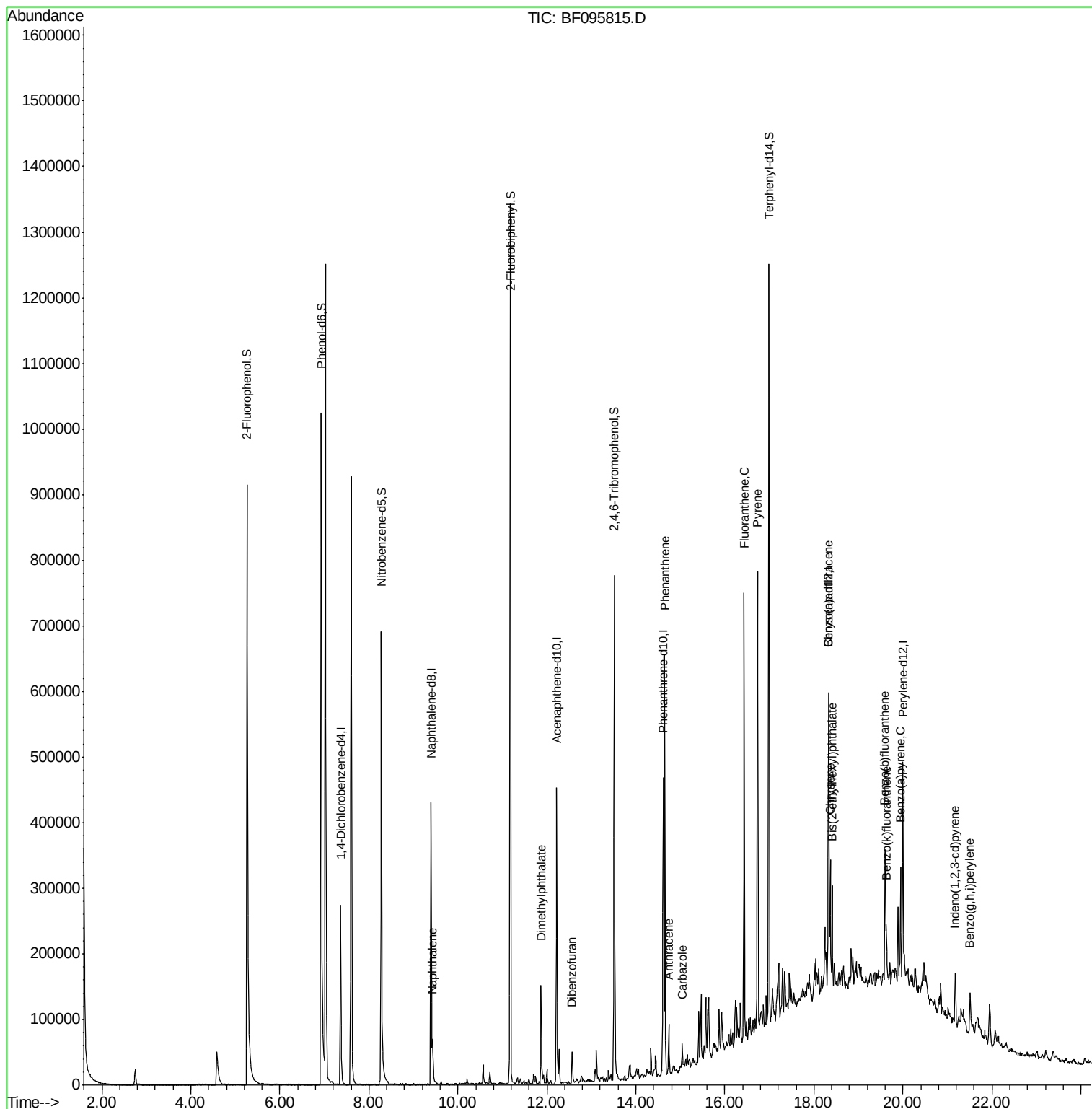
Quant Time: Jun 10 01:37:46 2017

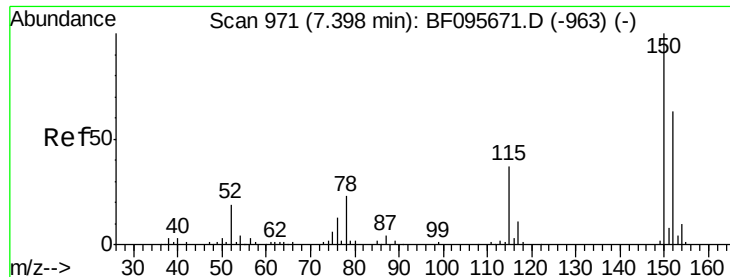
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060517.M

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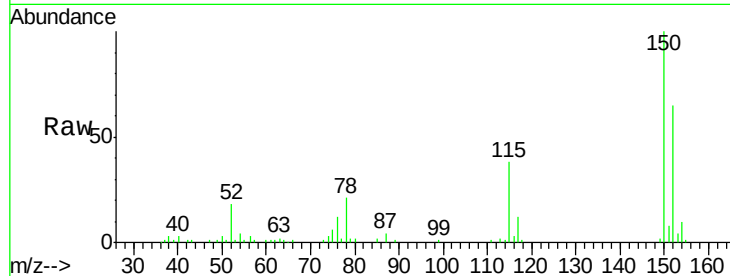


#1

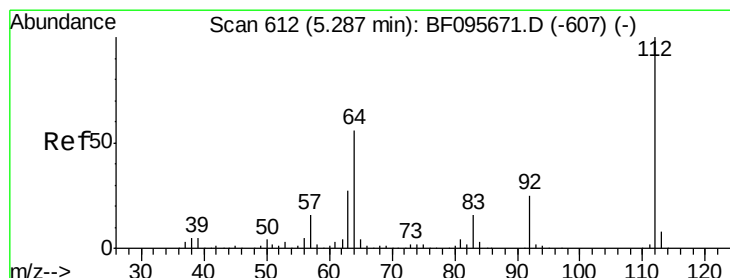
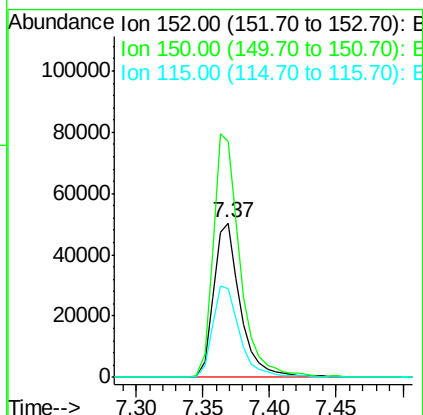
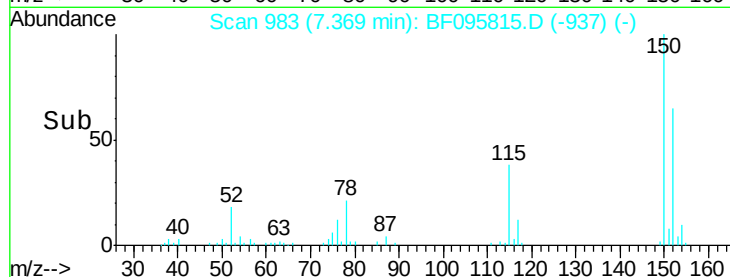
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.37 min Scan# 983
Delta R.T. -0.03 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Instrument :
BNA_F
ClientSampleId :
S-16

Tgt Ion:152 Resp: 70826
Ion Ratio Lower Upper
152 100
150 152.9 126.2 189.2
115 57.8 52.2 78.2



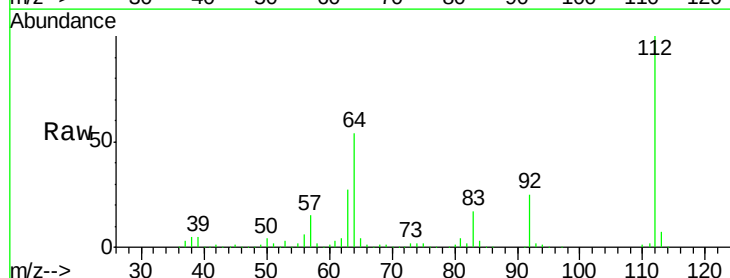
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



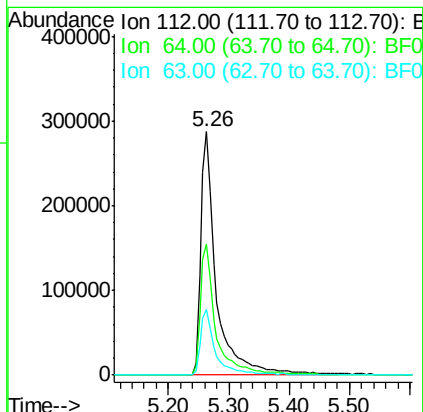
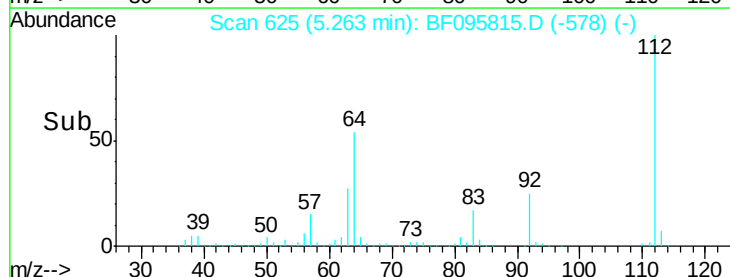
#5

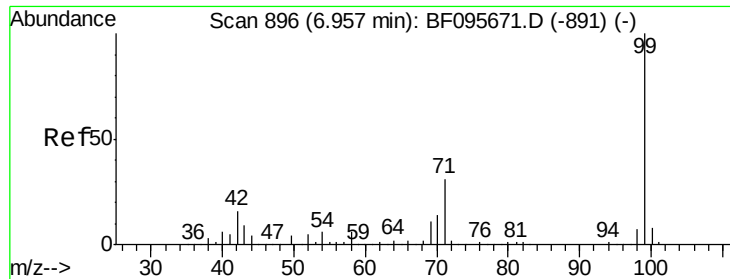
2-Fluorophenol
Concen: 117.28 ng
RT: 5.26 min Scan# 625
Delta R.T. -0.02 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Tgt Ion:112 Resp: 521305
Ion Ratio Lower Upper
112 100
64 53.6 46.0 69.0
63 26.8 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: 118.65 ng

RT: 6.93 min Scan# 908

Delta R.T. -0.03 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

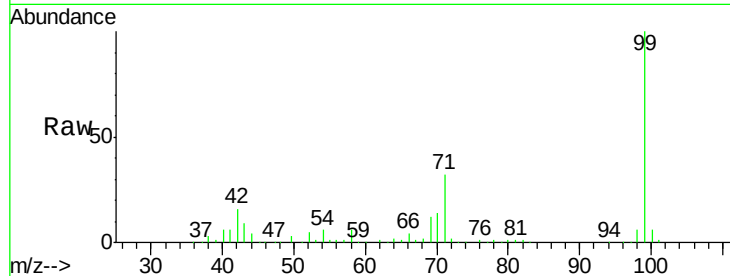
Tgt Ion: 99 Resp: 631375

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

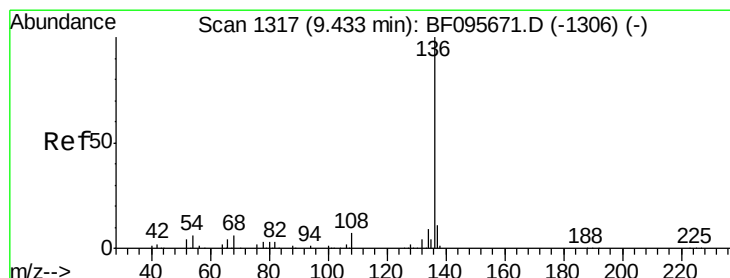
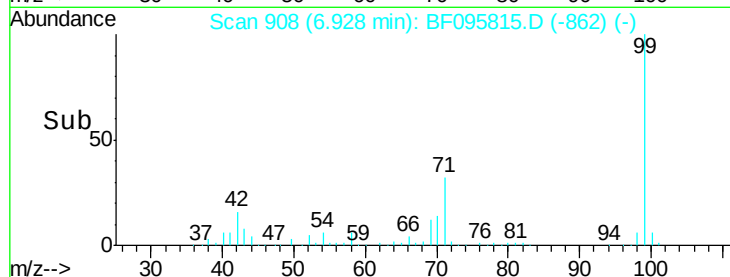
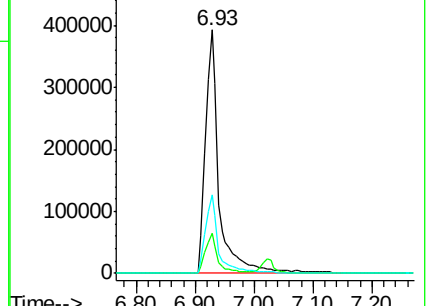
71 32.2 24.5 36.7



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: BF095815.D

Acq: 9 Jun 2017 11:43

Tgt Ion: 136 Resp: 285839

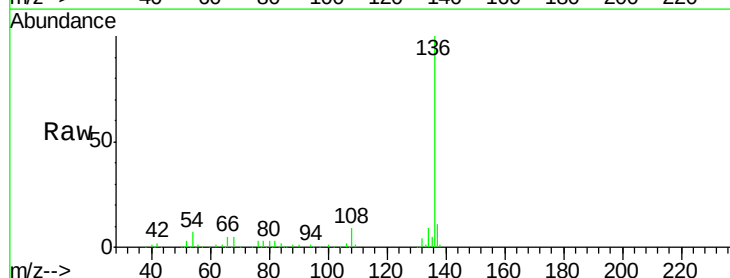
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.7 4.9 7.3

68 5.4 4.1 6.1

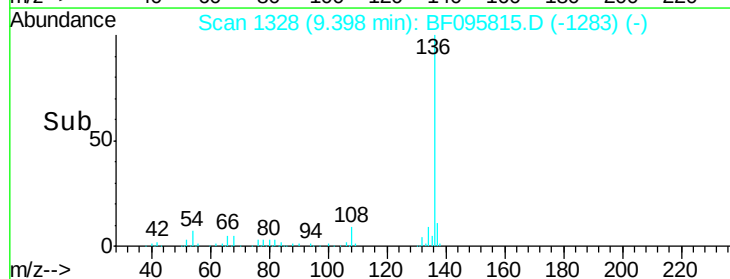
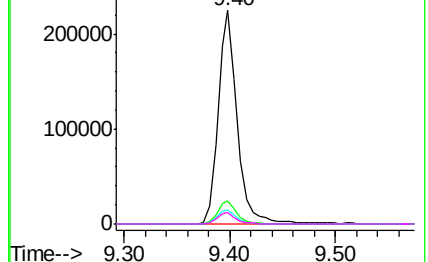


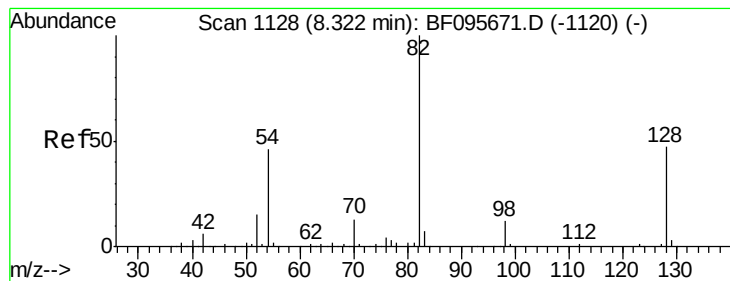
Abundance Ion 136.00 (135.70 to 136.70): E

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: 77.56 ng

RT: 8.28 min Scan# 1138

Delta R.T. -0.04 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

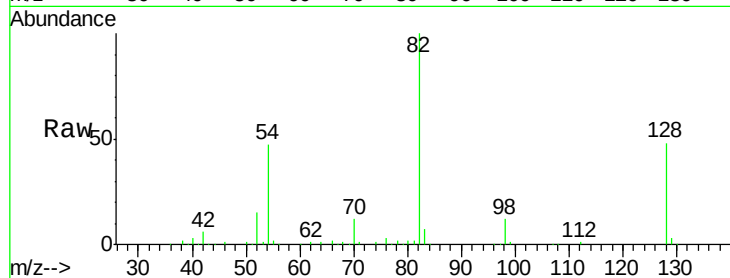
Tgt Ion: 82 Resp: 356995

Ion Ratio Lower Upper

82 100

128 47.9 34.0 51.0

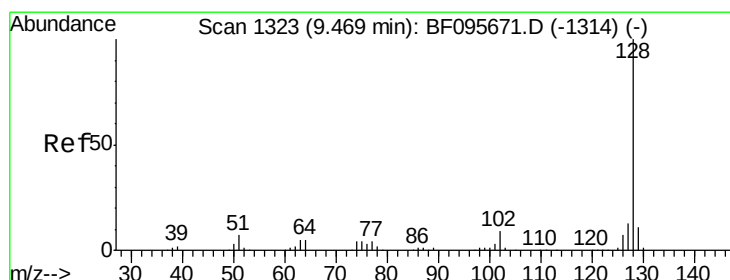
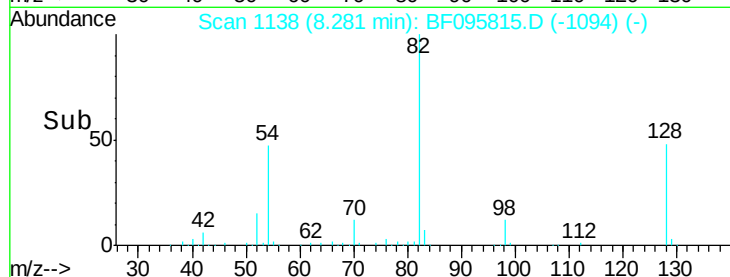
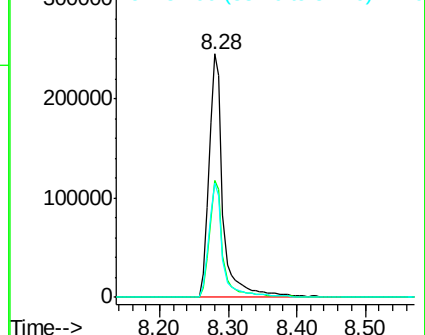
54 46.7 42.2 63.2



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: 3.71 ng

RT: 9.43 min Scan# 1334

Delta R.T. -0.04 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

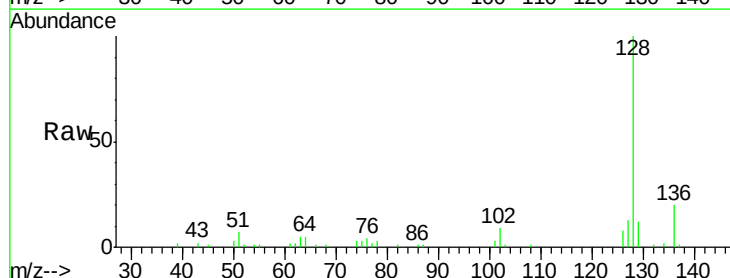
Tgt Ion: 128 Resp: 53247

Ion Ratio Lower Upper

128 100

129 12.5 9.0 13.6

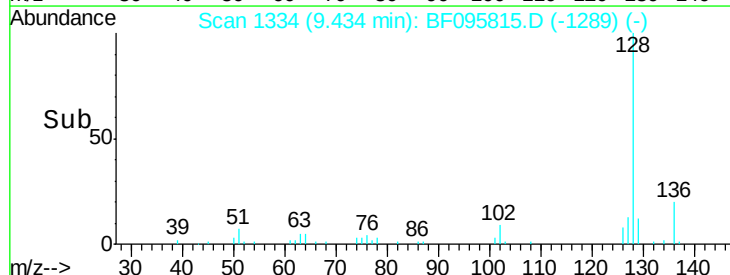
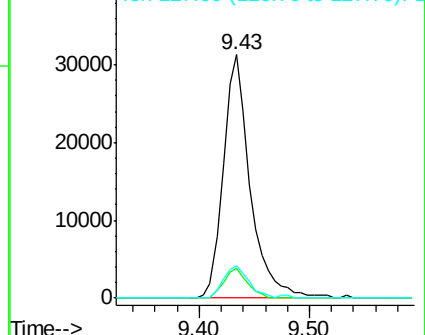
127 13.2 10.8 16.2

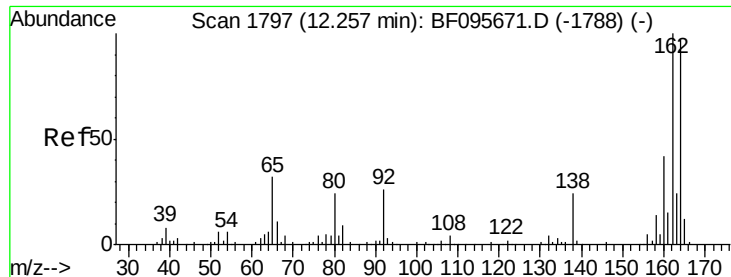


Abundance Ion 128.00 (127.70 to 128.70): E

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: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

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S-16

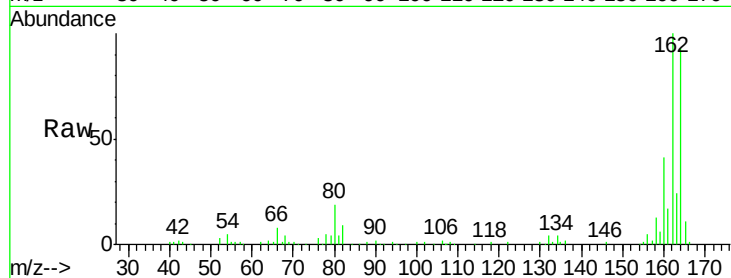
Tgt Ion:164 Resp: 129948

Ion Ratio Lower Upper

164 100

162 107.0 82.6 123.8

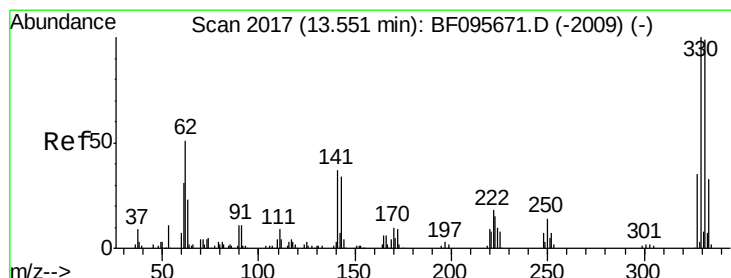
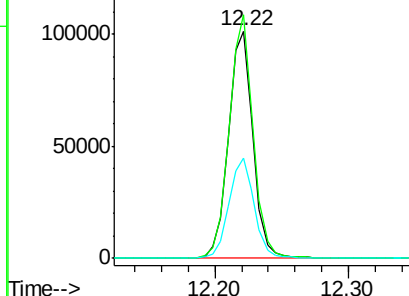
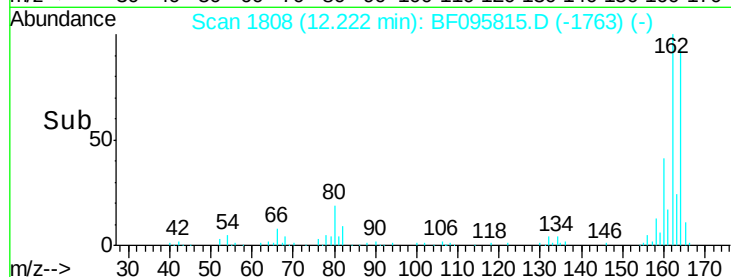
160 44.3 36.2 54.2



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: 110.29 ng

RT: 13.52 min Scan# 2028

Delta R.T. -0.04 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

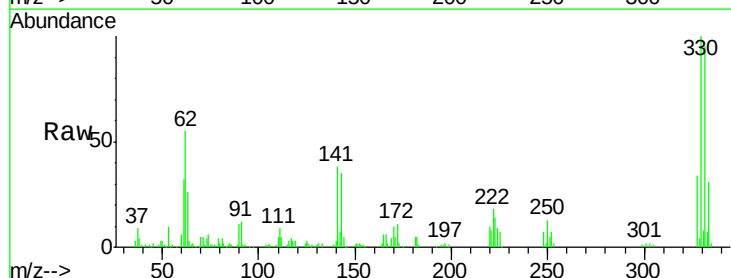
Tgt Ion:330 Resp: 126807

Ion Ratio Lower Upper

330 100

332 96.9 76.6 115.0

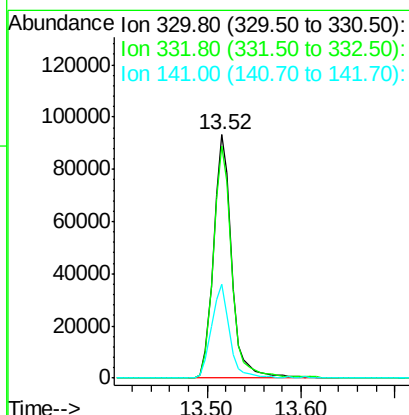
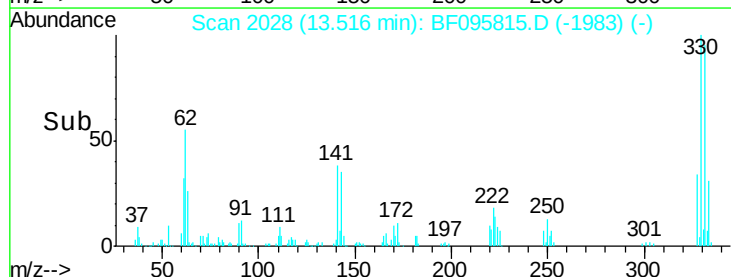
141 38.6 31.4 47.2

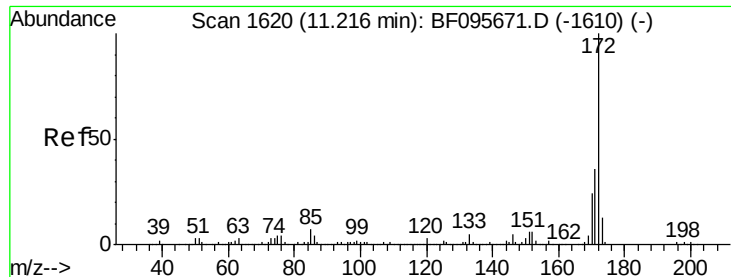


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

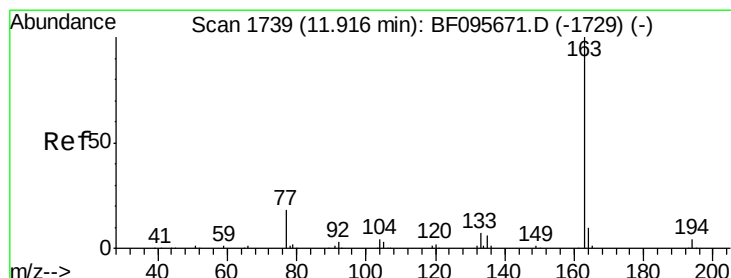
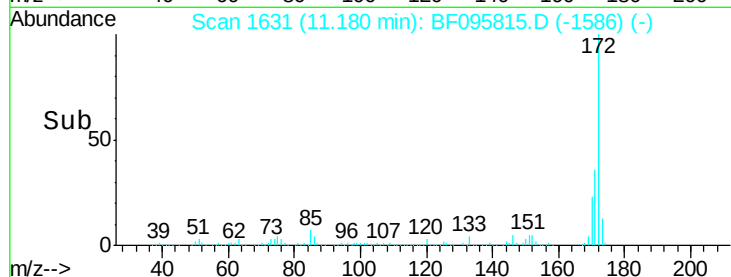
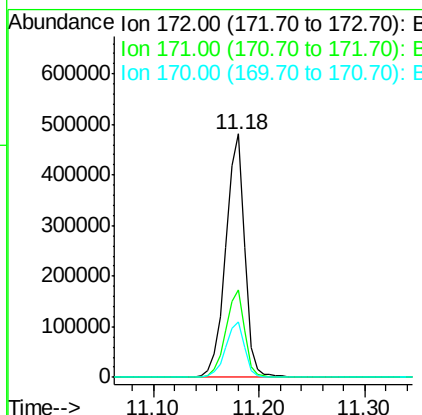
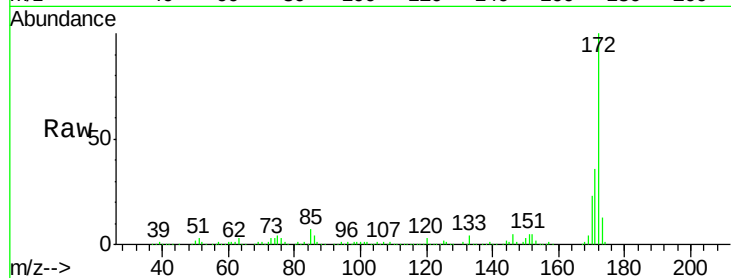




#44
2-Fluorobiphenyl
Concen: 64.07 ng
RT: 11.18 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

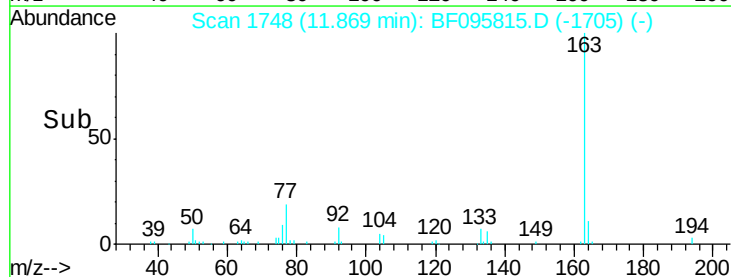
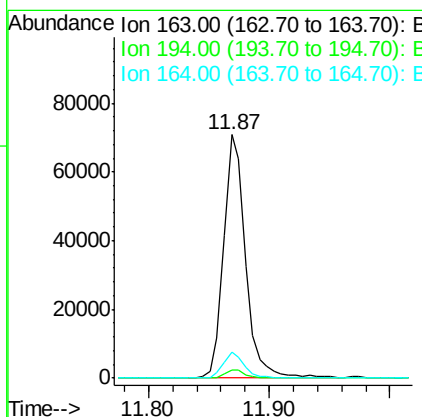
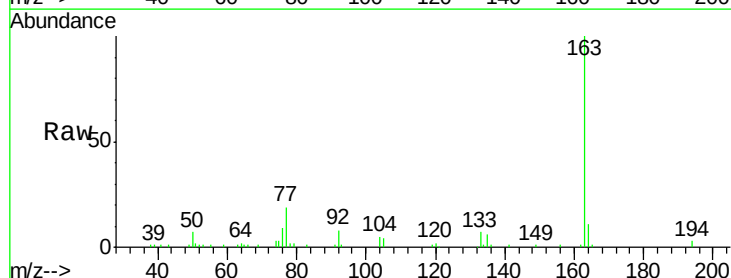
Instrument :
BNA_F
ClientSampleId :
S-16

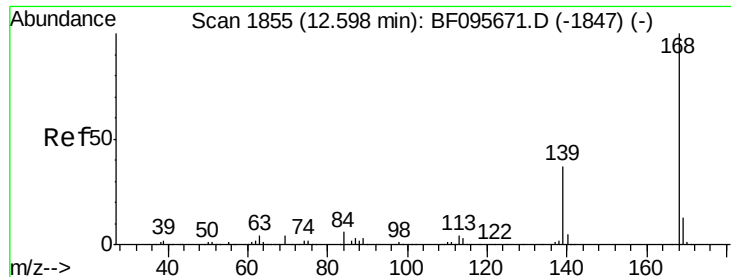
Tgt Ion:172 Resp: 598321
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 22.9 19.8 29.8



#49
Dimethylphthalate
Concen: 8.99 ng
RT: 11.87 min Scan# 1748
Delta R.T. -0.05 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Tgt Ion:163 Resp: 88652
Ion Ratio Lower Upper
163 100
194 3.2 2.6 4.0
164 10.5 8.4 12.6

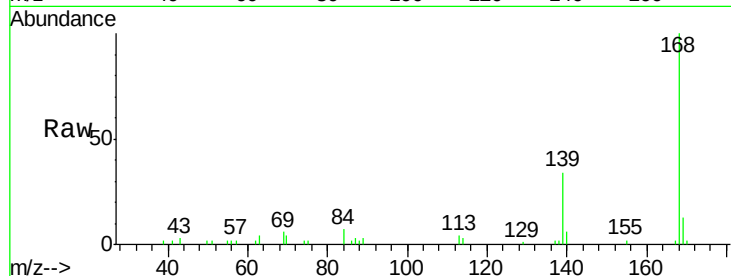




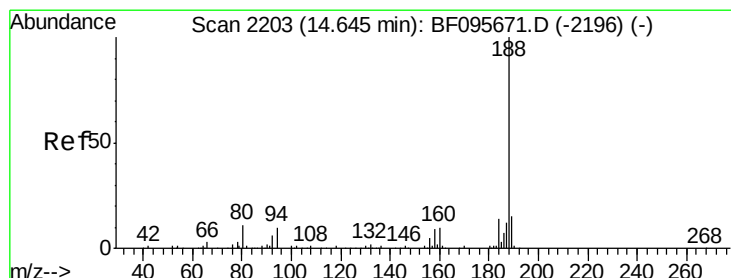
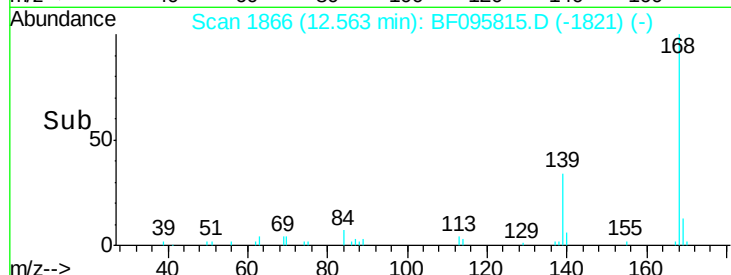
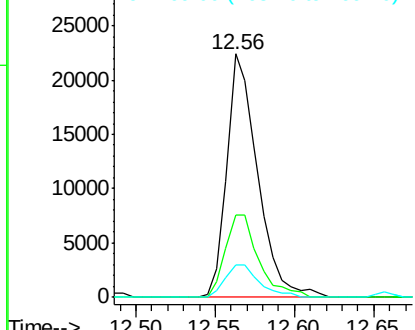
#54
Dibenzenofuran
Concen: 2.59 ng
RT: 12.56 min Scan# 1866
Delta R.T. -0.04 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Instrument :
BNA_F
ClientSampleId :
S-16

Tgt Ion:168 Resp: 30126
Ion Ratio Lower Upper
168 100
139 33.9 30.6 45.8
169 13.2 10.8 16.2

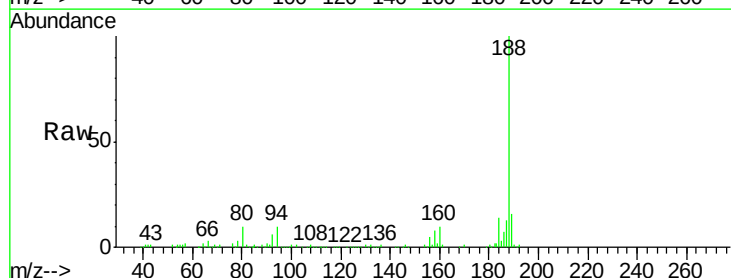


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

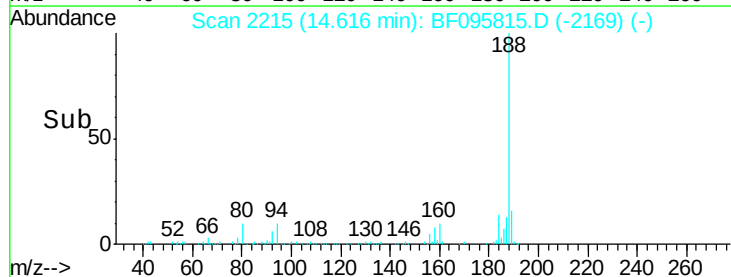
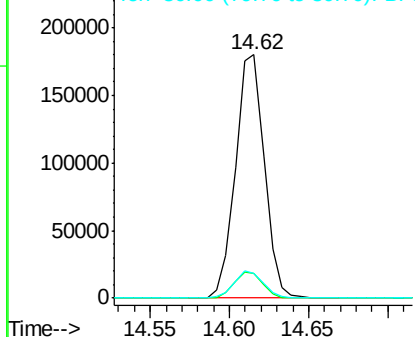


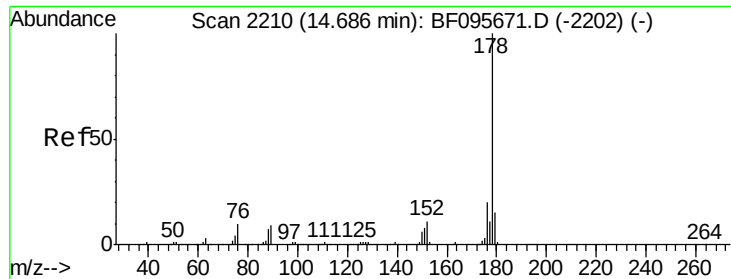
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.62 min Scan# 2215
Delta R.T. -0.03 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Tgt Ion:188 Resp: 227113
Ion Ratio Lower Upper
188 100
94 10.1 9.4 14.2
80 10.4 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

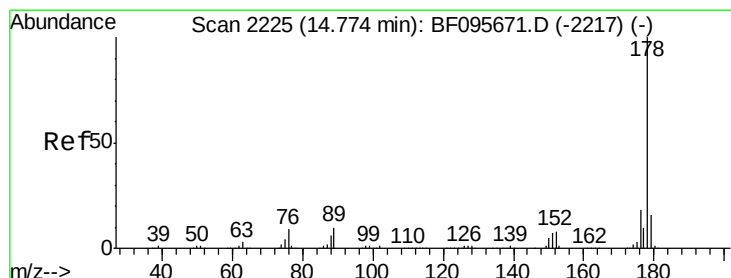
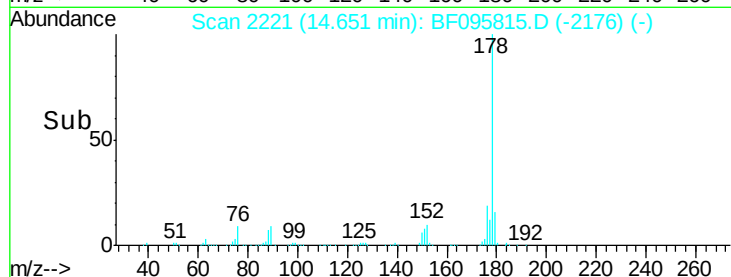
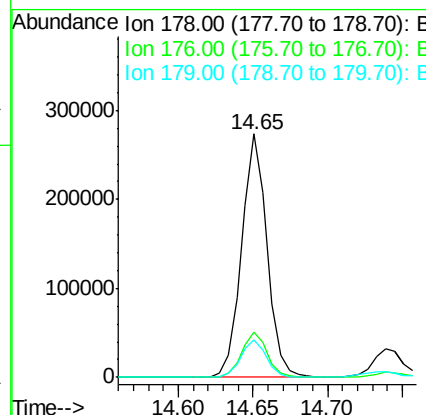
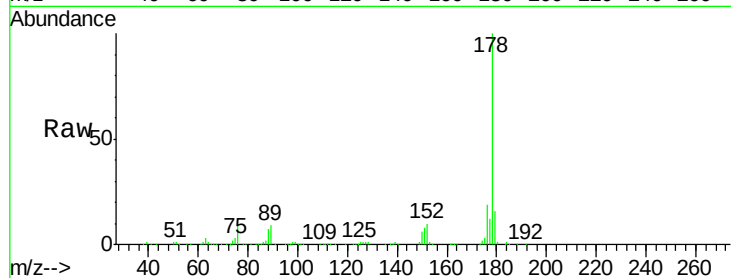




#70
Phenanthrene
Concen: 24.73 ng
RT: 14.65 min Scan# 2221
Delta R.T. -0.04 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

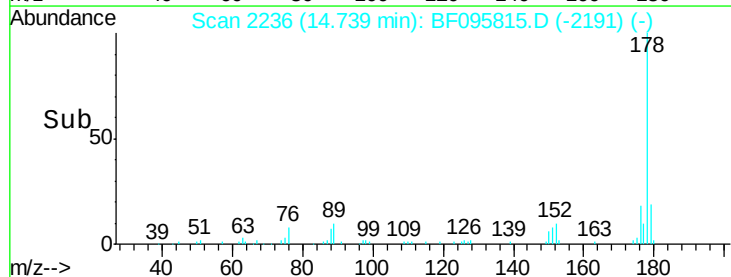
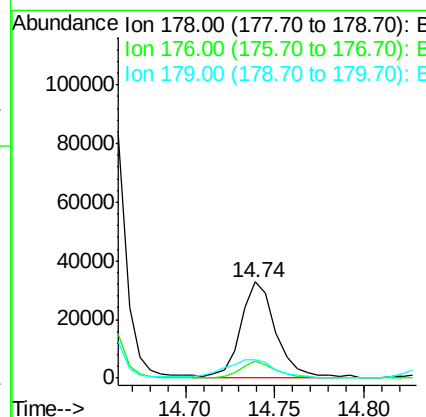
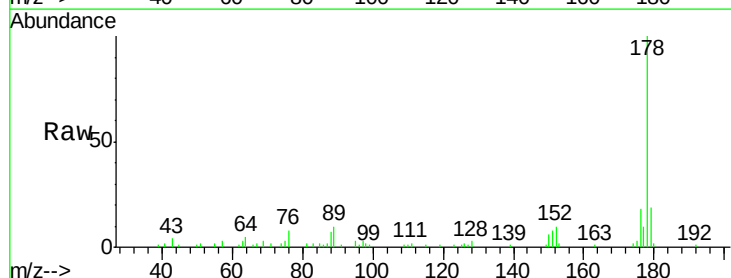
Instrument :
BNA_F
ClientSampleId :
S-16

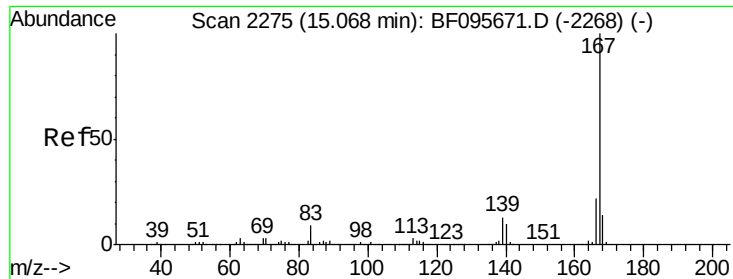
Tgt Ion:178 Resp: 324127
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.4
179 15.6 12.6 19.0



#71
Anthracene
Concen: 3.36 ng m
RT: 14.74 min Scan# 2236
Delta R.T. -0.04 min
Lab File: BF095815.D
Acq: 9 Jun 2017 11:43

Tgt Ion:178 Resp: 45954
Ion Ratio Lower Upper
178 100
176 17.7 15.8 23.8
179 19.2 12.7 19.1#

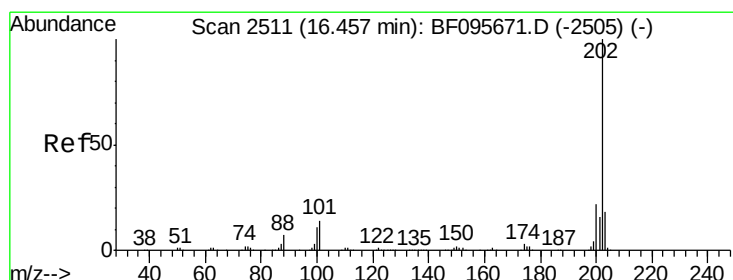
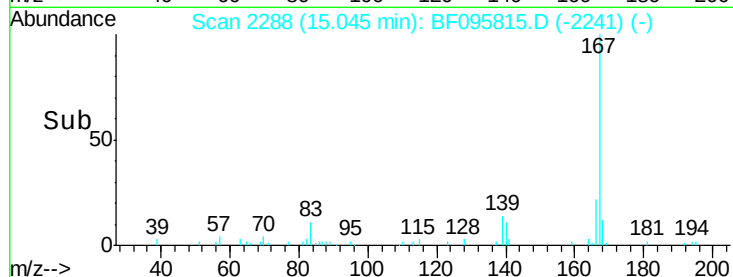
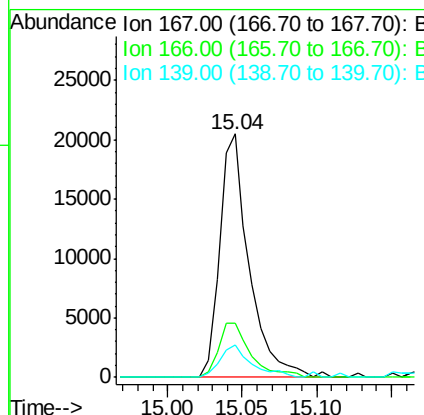
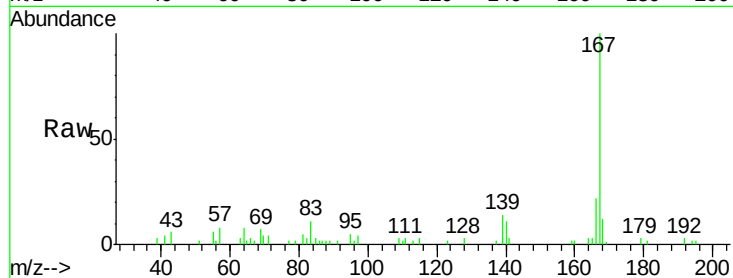




#72
 Carbazole
 Concen: 2.12 ng
 RT: 15.04 min Scan# 2288
 Delta R.T. -0.02 min
 Lab File: BF095815.D
 Acq: 9 Jun 2017 11:43

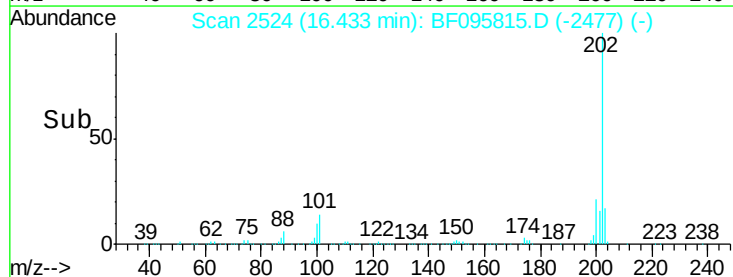
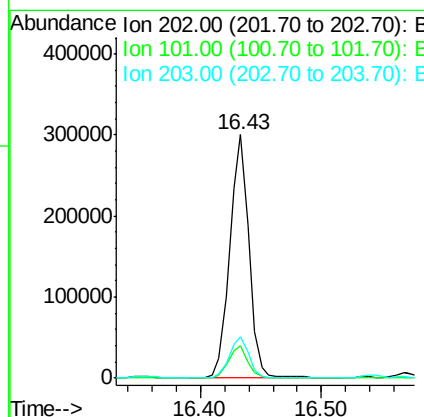
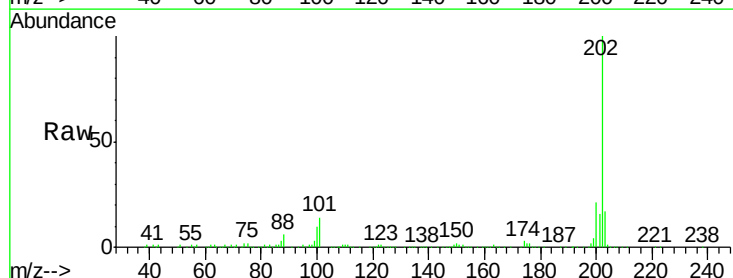
Instrument :
 BNA_F
 ClientSampleId :
 S-16

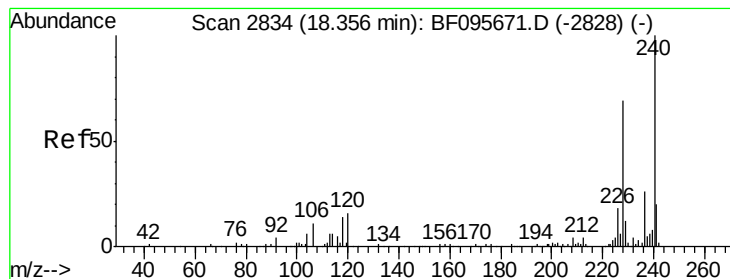
Tgt Ion:167 Resp: 28249
 Ion Ratio Lower Upper
 167 100
 166 22.4 18.1 27.1
 139 13.5 11.7 17.5



#74
 Fluoranthene
 Concen: 25.56 ng
 RT: 16.43 min Scan# 2524
 Delta R.T. -0.02 min
 Lab File: BF095815.D
 Acq: 9 Jun 2017 11:43

Tgt Ion:202 Resp: 331563
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 33.2
 203 17.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.33 min Scan# 2847

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

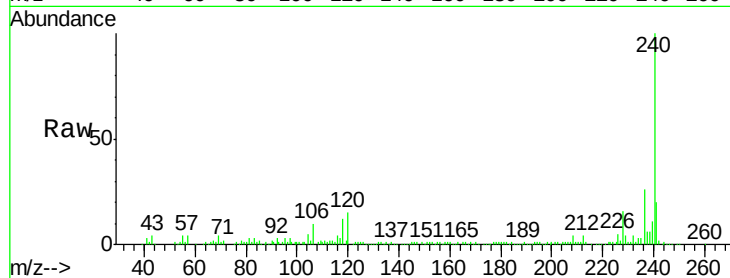
Tgt Ion:240 Resp: 148326

Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

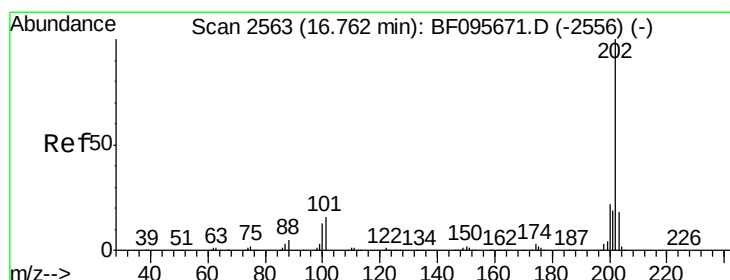
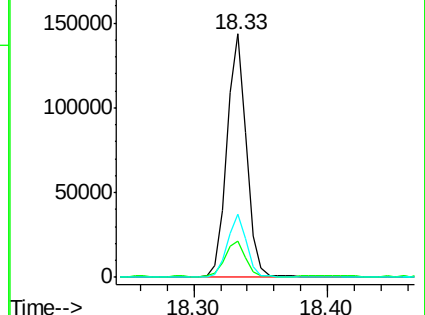
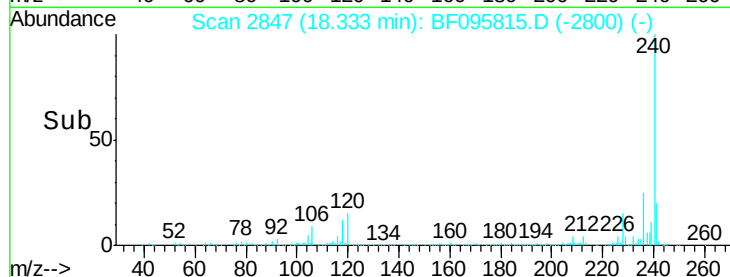
236 25.7 20.5 30.7



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: 25.58 ng

RT: 16.73 min Scan# 2575

Delta R.T. -0.03 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

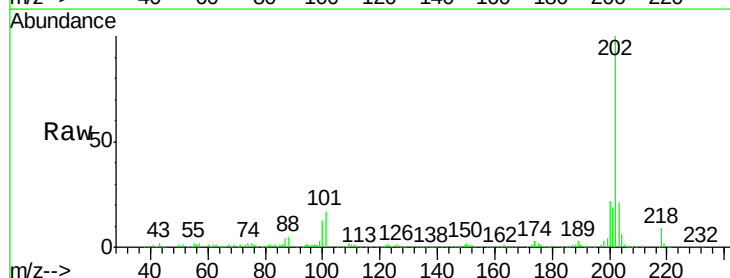
Tgt Ion:202 Resp: 283156

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

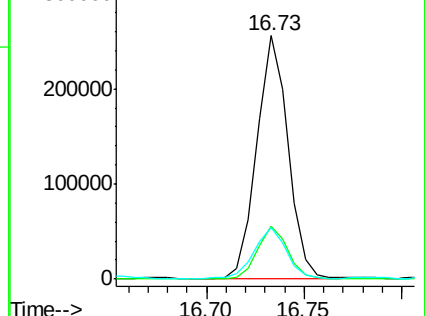
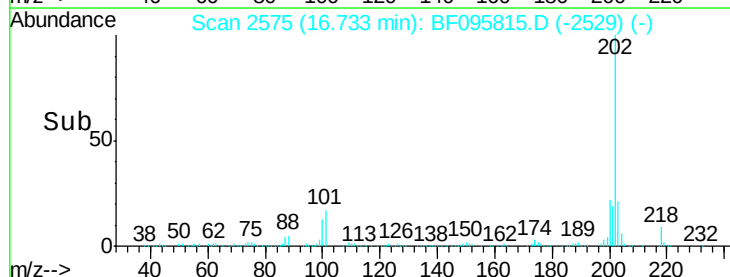
203 21.1 14.4 21.6

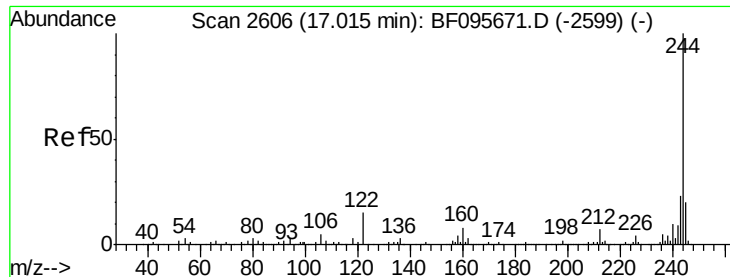


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 71.31 ng

RT: 16.99 min Scan# 2619

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

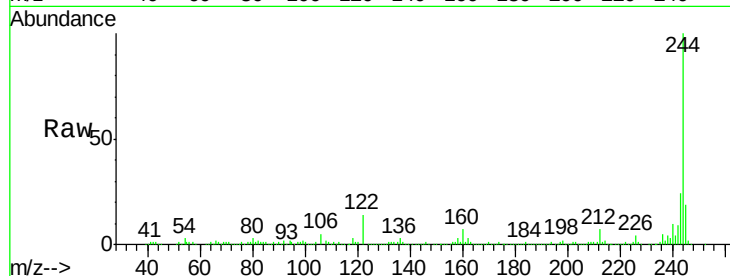
Tgt Ion:244 Resp: 426210

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

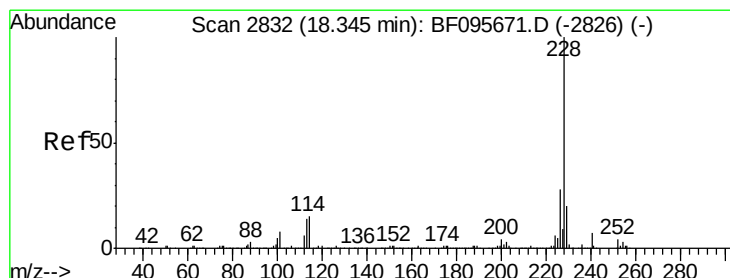
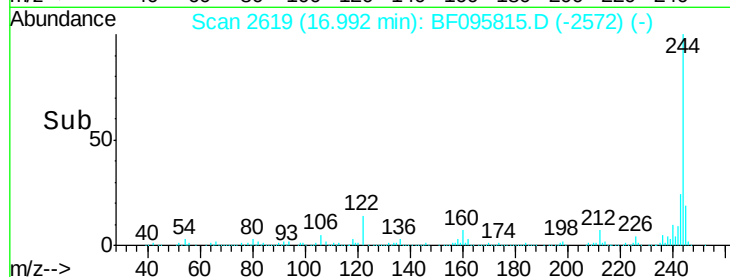
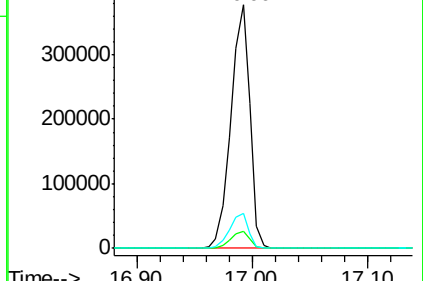
122 14.2 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 10.47 ng

RT: 18.32 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

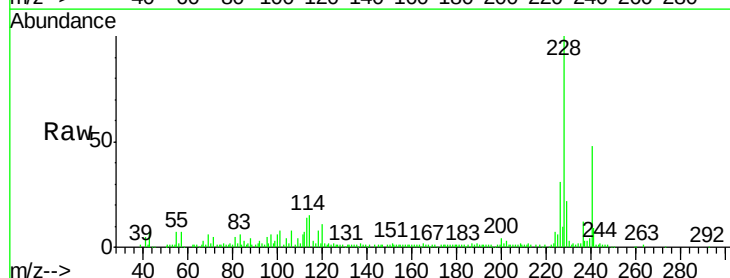
Tgt Ion:228 Resp: 90316

Ion Ratio Lower Upper

228 100

226 31.0 22.6 33.8

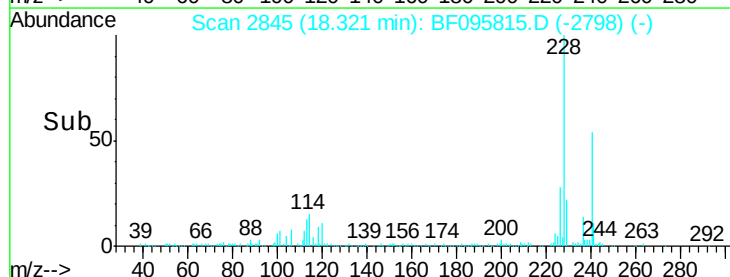
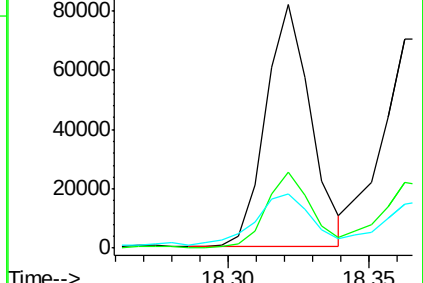
229 22.2 16.3 24.5

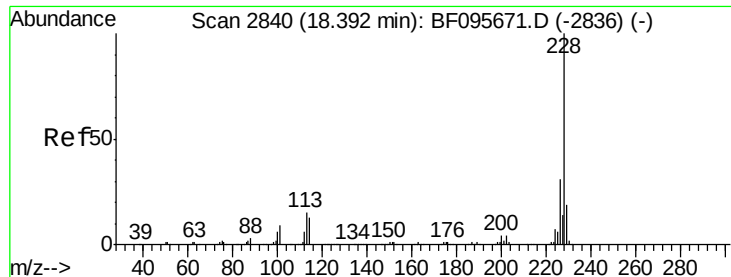


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.43 ng

RT: 18.36 min Scan# 2852

Delta R.T. -0.03 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampled :

S-16

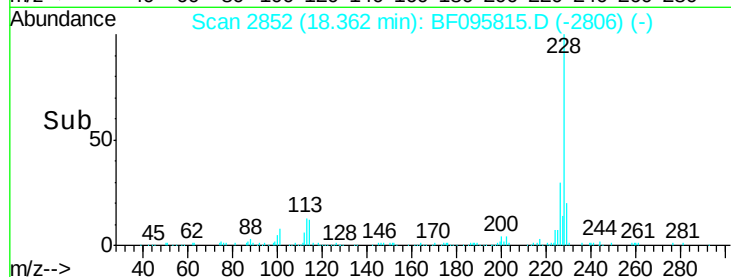
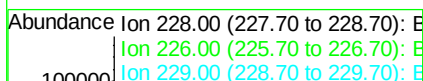
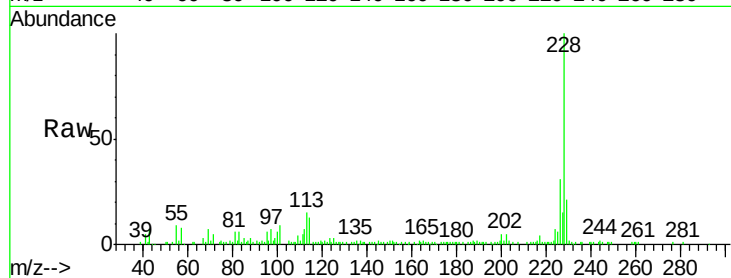
Tgt Ion:228 Resp: 98548

Ion Ratio Lower Upper

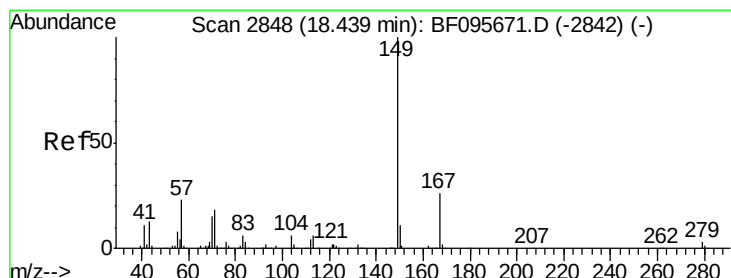
228 100

226 31.4 24.9 37.3

229 20.9 15.8 23.6



Time--> 18.30 18.35 18.40 18.45



#83

Bis(2-ethylhexyl)phthalate

Concen: 7.94 ng

RT: 18.41 min Scan# 2860

Delta R.T. -0.03 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

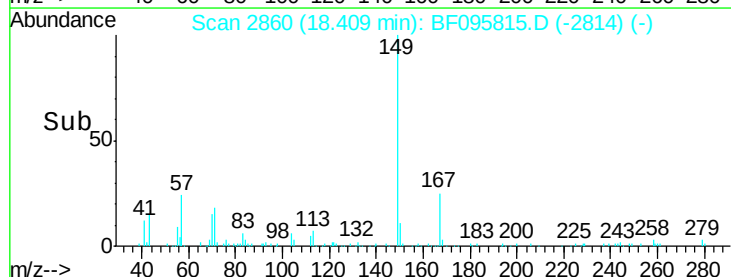
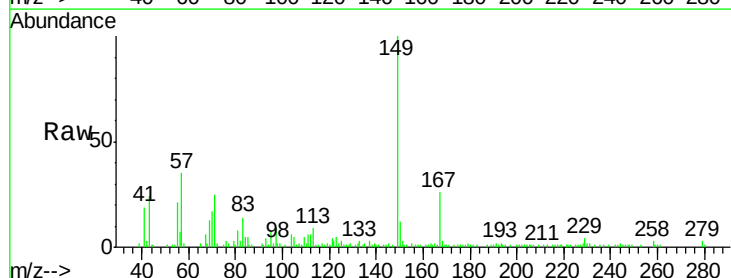
Tgt Ion:149 Resp: 54136

Ion Ratio Lower Upper

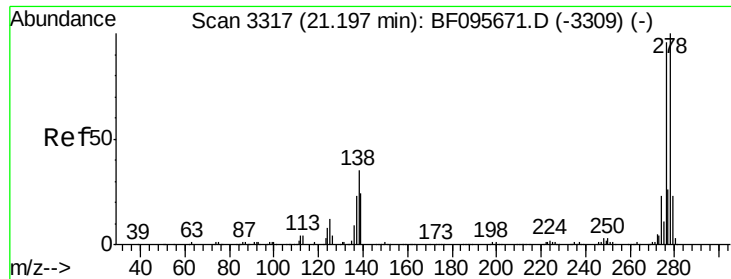
149 100

167 25.5 21.0 31.4

279 3.4 1.9 2.9#



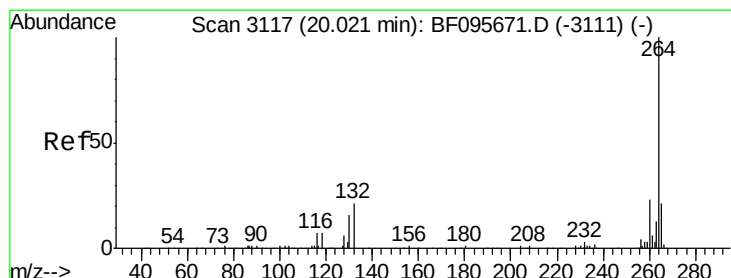
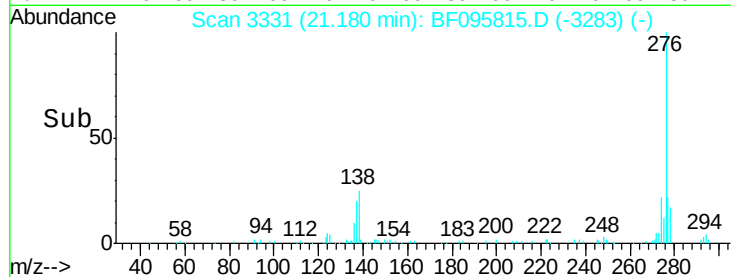
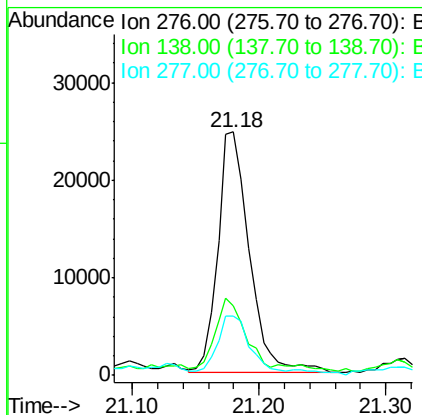
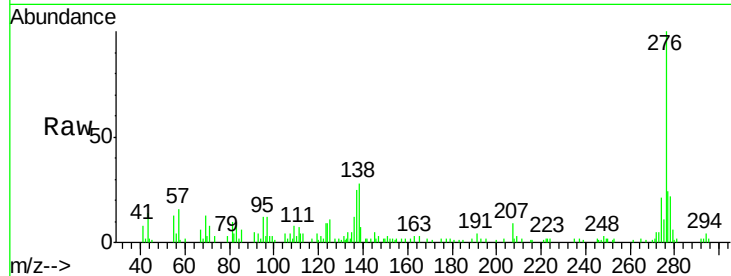
Time--> 18.40 18.45



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.78 ng
 RT: 21.18 min Scan# 3331
 Delta R.T. -0.02 min
 Lab File: BF095815.D
 Acq: 9 Jun 2017 11:43

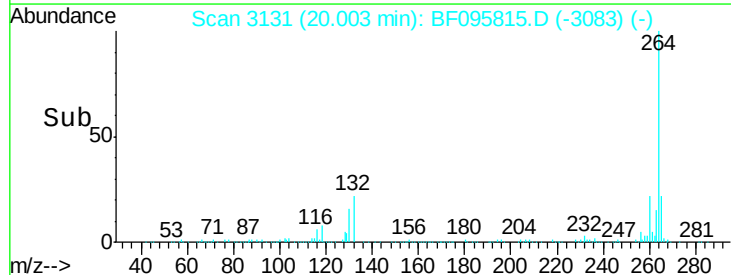
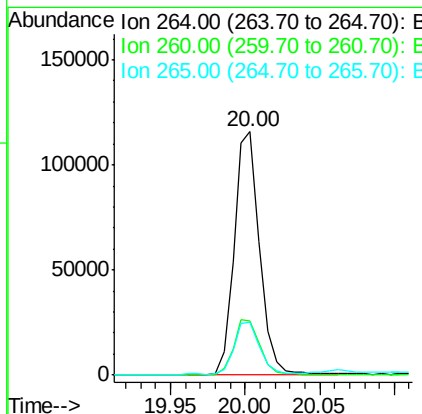
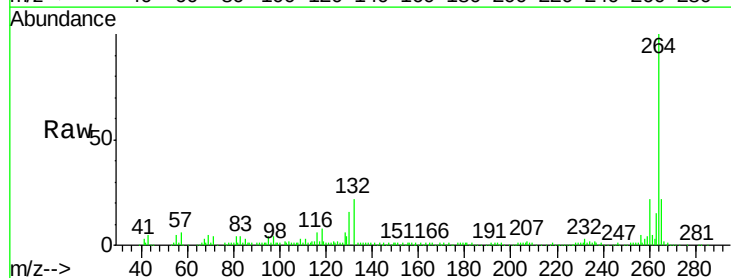
Instrument :
 BNA_F
 ClientSampleId :
 S-16

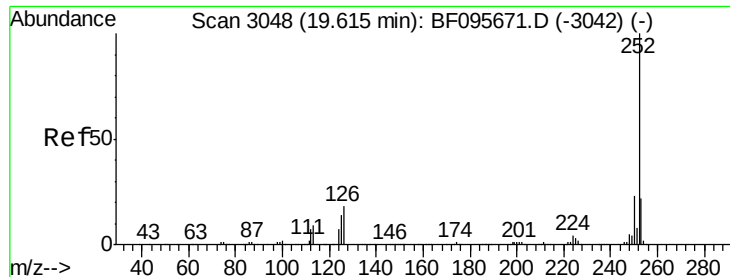
Tgt Ion:276 Resp: 42587
 Ion Ratio Lower Upper
 276 100
 138 27.6 27.8 41.6#
 277 22.4 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.00 min Scan# 3131
 Delta R.T. -0.02 min
 Lab File: BF095815.D
 Acq: 9 Jun 2017 11:43

Tgt Ion:264 Resp: 138398
 Ion Ratio Lower Upper
 264 100
 260 22.4 19.5 29.3
 265 21.6 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 11.36 ng m

RT: 19.60 min Scan# 3062

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

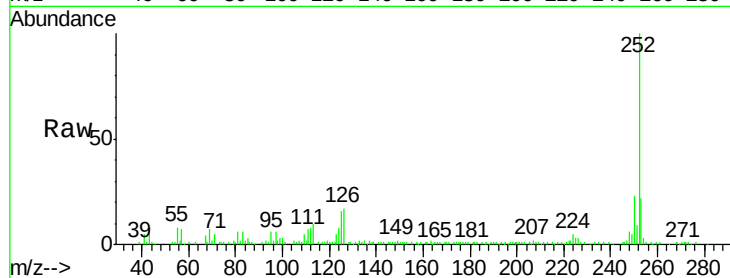
Tgt Ion:252 Resp: 98480

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

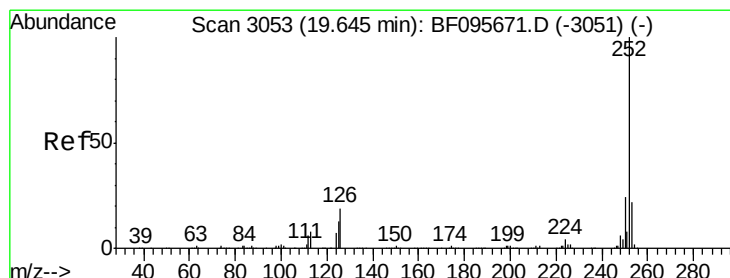
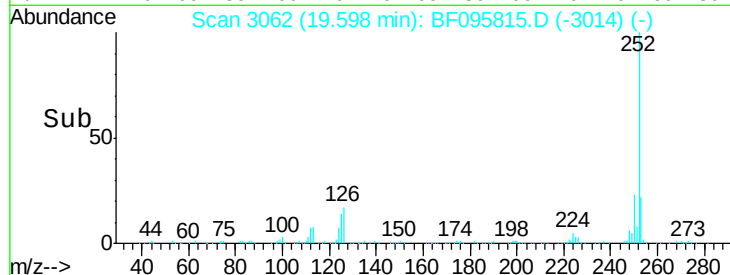
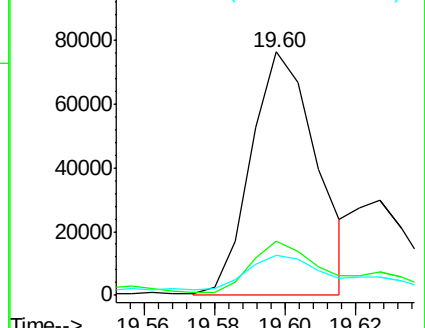
125 16.5 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 4.11 ng m

RT: 19.63 min Scan# 3067

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

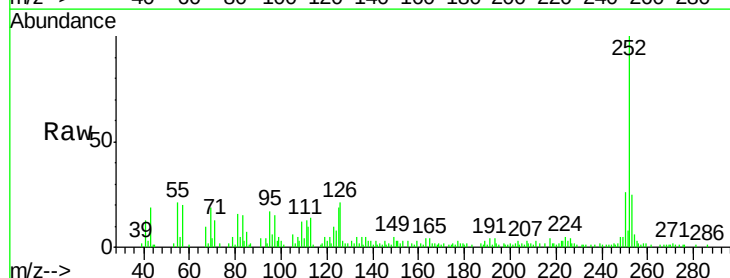
Tgt Ion:252 Resp: 34060

Ion Ratio Lower Upper

252 100

253 25.2 18.4 27.6

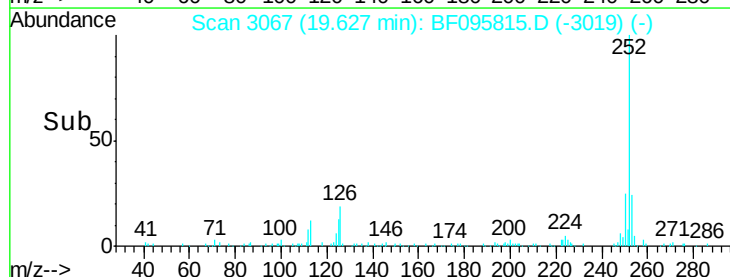
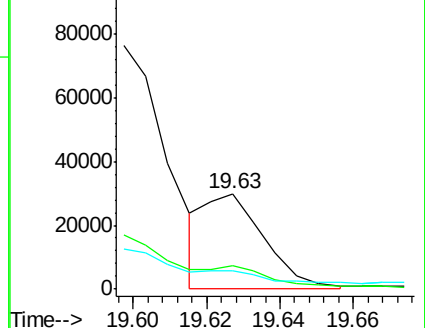
125 18.9 13.1 19.7

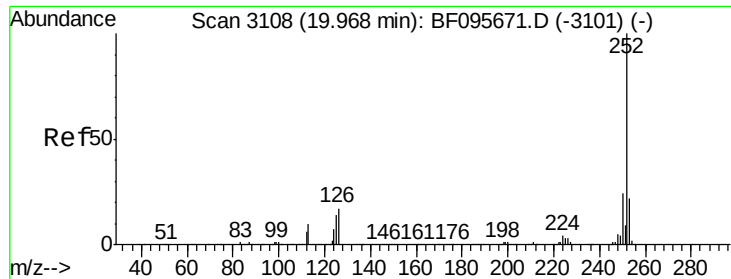


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.06 ng

RT: 19.94 min Scan# 3121

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

Instrument :

BNA_F

ClientSampleId :

S-16

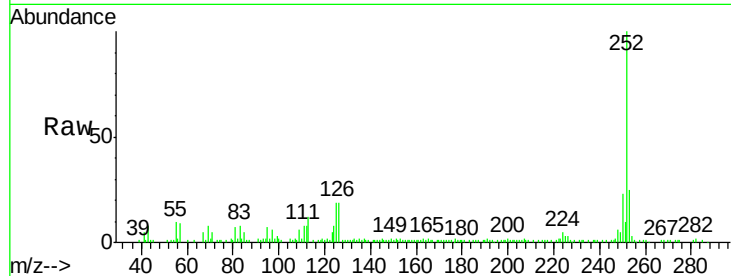
Tgt Ion:252 Resp: 72132

Ion Ratio Lower Upper

252 100

253 24.7 17.5 26.3

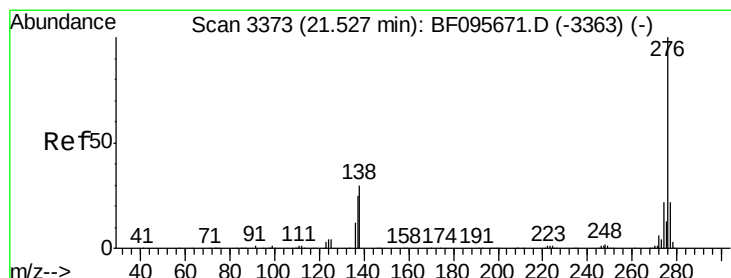
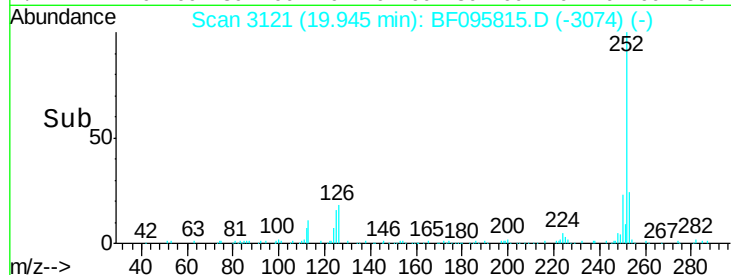
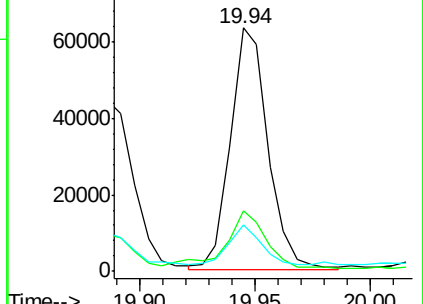
125 19.4 11.0 16.4#



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



#91

Benzo(g,h,i)perylene

Concen: 6.05 ng

RT: 21.51 min Scan# 3387

Delta R.T. -0.02 min

Lab File: BF095815.D

Acq: 9 Jun 2017 11:43

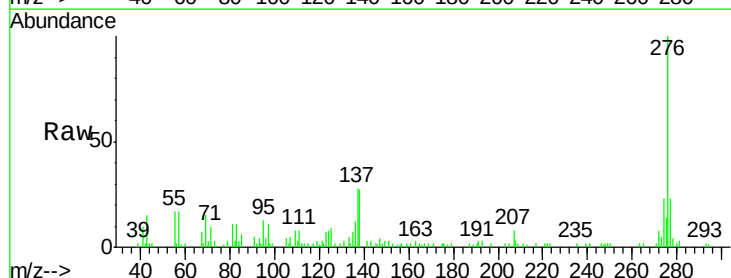
Tgt Ion:276 Resp: 41706

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 27.4 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

