

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102017\
 Data File : BF099705.D
 Acq On : 20 Oct 2017 17:15
 Operator : SJ/JU
 Sample : I5988-01 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 21 21:23:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 20 13:11:43 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	89175	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	345413	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	128841	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	178671	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	155006	20.00	ng	0.00
86) Perylene-d12	15.44	264	175907	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.44	112	40954	7.31	ng	0.00
7) Phenol-d6	6.46	99	50996	7.38	ng	0.00
23) Nitrobenzene-d5	7.38	82	26970	5.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	5820	5.52	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	55140	7.14	ng	-0.01
78) Terphenyl-d14	12.92	244	32081	4.71	ng	0.00

Target Compounds

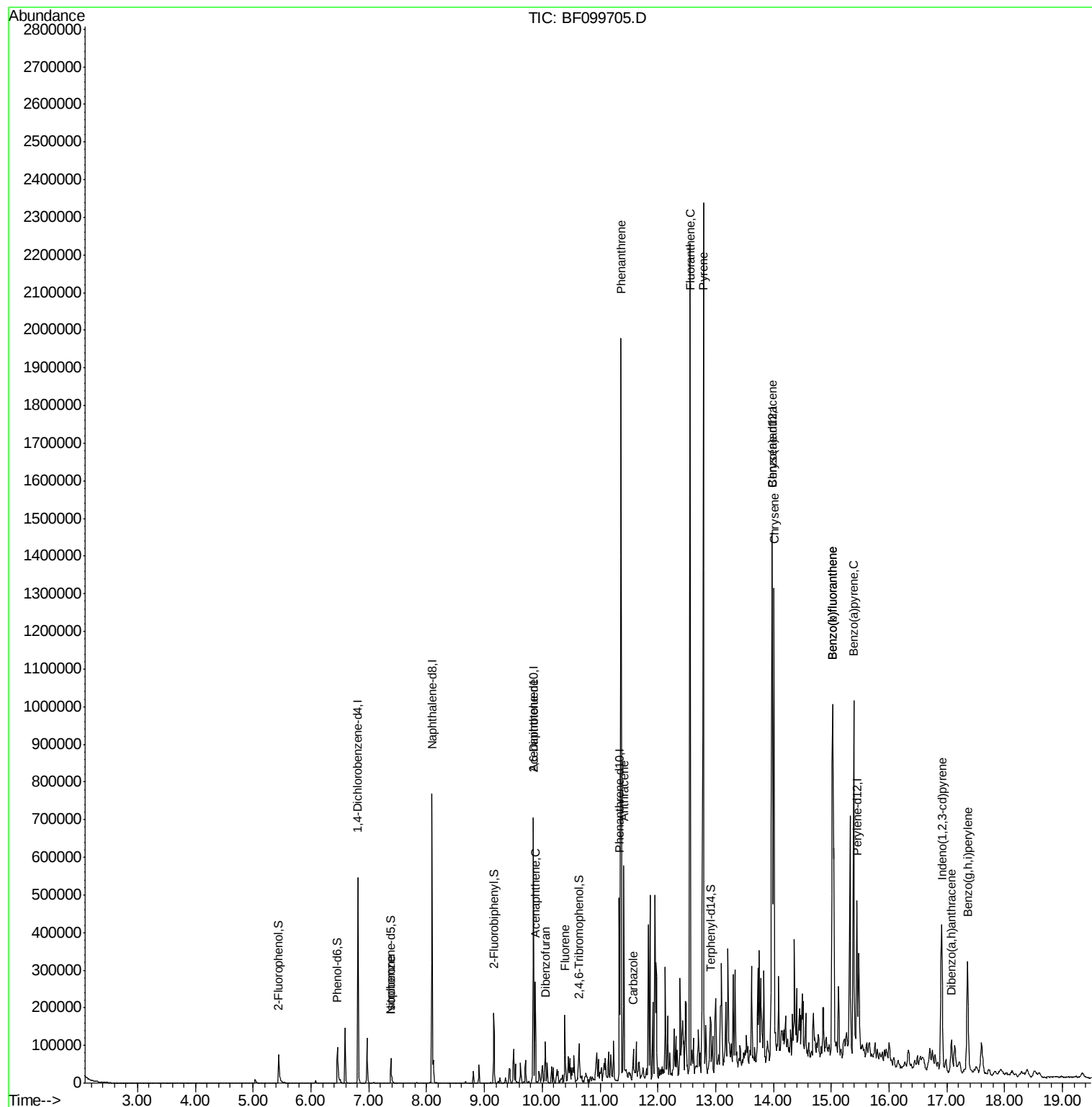
						Qvalue
25) Isophorone	7.38	82	26970	2.422	ng	# 64
50) 2,6-Dinitrotoluene	9.85	165	17773	8.395	ng	# 24
51) Acenaphthene	9.88	154	55577	6.894	ng	96
54) Dibenzofuran	10.05	168	32269	3.006	ng	# 97
57) Fluorene	10.39	166	49088	5.690	ng	100
70) Phenanthrene	11.36	178	701637	73.364	ng	99
71) Anthracene	11.41	178	216013	22.075	ng	98
72) Carbazole	11.57	167	23426	2.445	ng	96
74) Fluoranthene	12.56	202	899224	92.853	ng	99
77) Pyrene	12.79	202	1009931	85.444	ng	99
80) Benzo(a)anthracene	13.97	228	508942	54.224	ng	98
82) Chrysene	14.01	228	449172	50.266	ng	98
85) Indeno(1,2,3-cd)pyrene	16.91	276	220333	30.824	ng	98
87) Benzo(b)fluoranthene	15.02	252	681255	62.989	ng	# 94
88) Benzo(k)fluoranthene	15.02	252	681206	63.769	ng	97
89) Benzo(a)pyrene	15.39	252	431060	43.419	ng	97
90) Dibenzo(a,h)anthracene	17.07	278	52058	6.552	ng	95
91) Benzo(g,h,i)perylene	17.36	276	218222	27.786	ng	94

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

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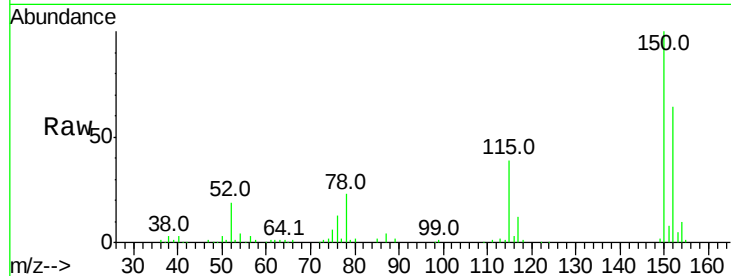


#1

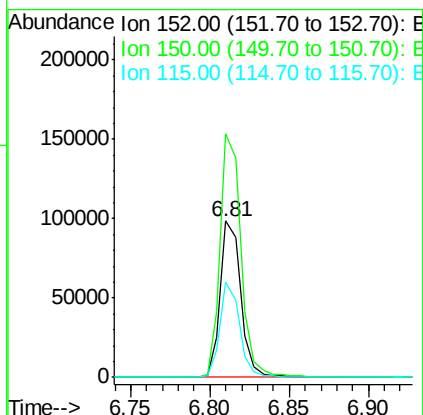
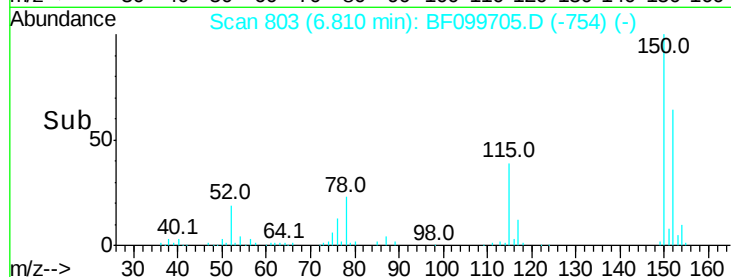
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 89175
Ion Ratio Lower Upper
152 100
150 155.7 124.6 186.8
115 60.4 50.1 75.1



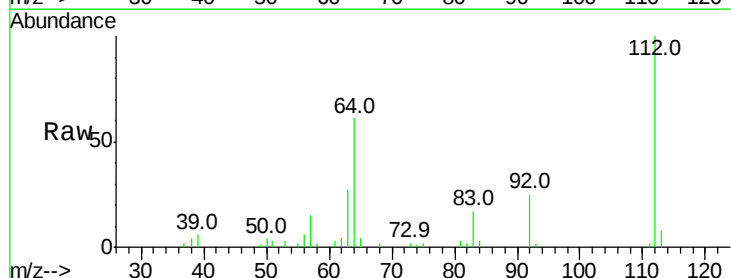
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



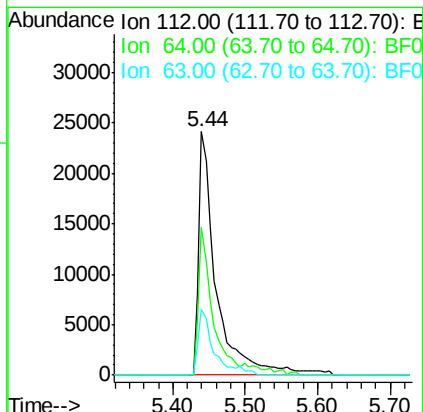
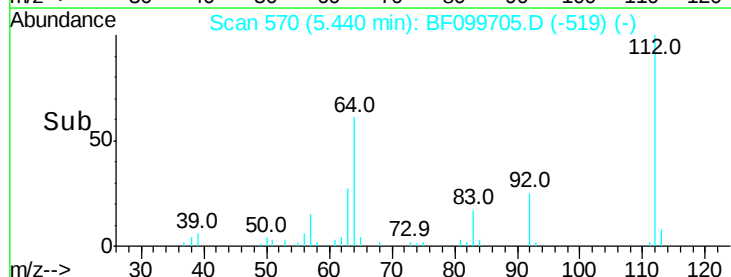
#5

2-Fluorophenol
Concen: 7.311 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion:112 Resp: 40954
Ion Ratio Lower Upper
112 100
64 60.7 47.9 71.9
63 26.9 23.7 35.5



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: 7.380 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

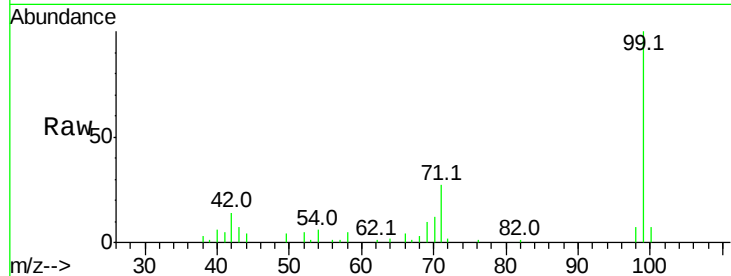
Tot Ion: 99 Resp: 50996

Ion Ratio Lower Upper

99 100

42 14.1 14.5 21.7#

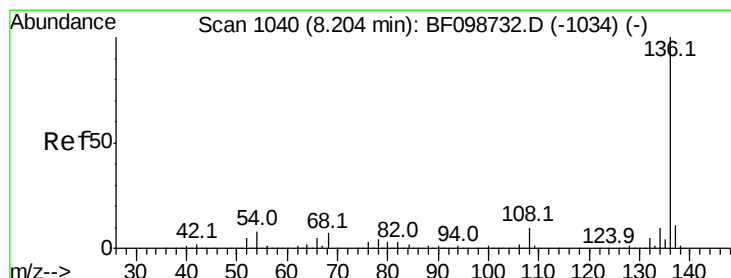
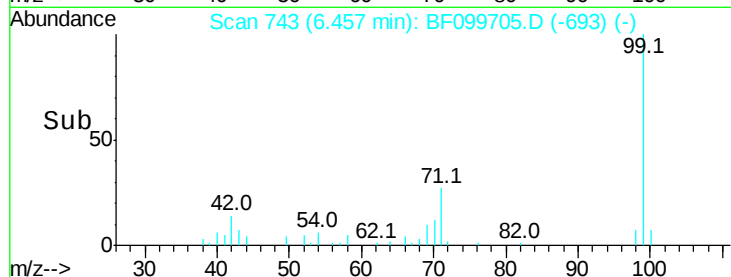
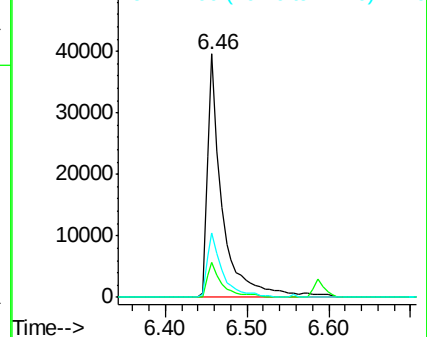
71 26.7 25.4 38.0



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: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Tgt Ion: 136 Resp: 345413

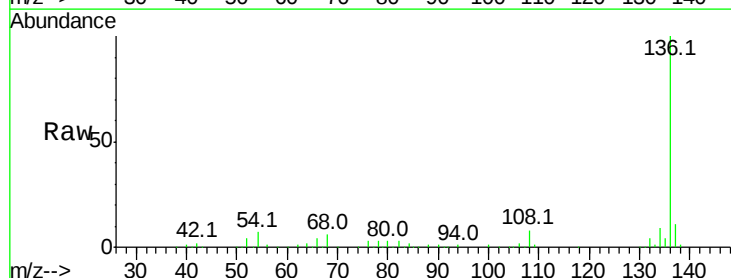
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 6.9 6.6 9.8

68 6.1 5.0 7.4

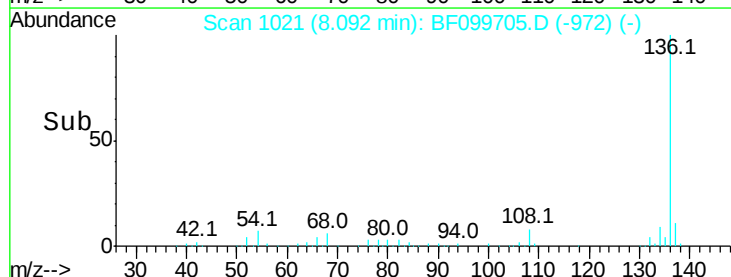
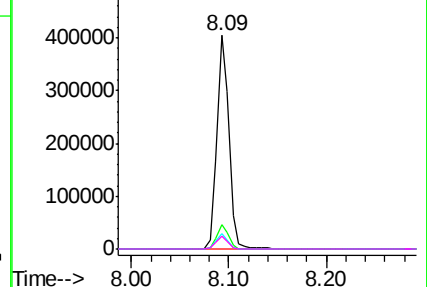


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

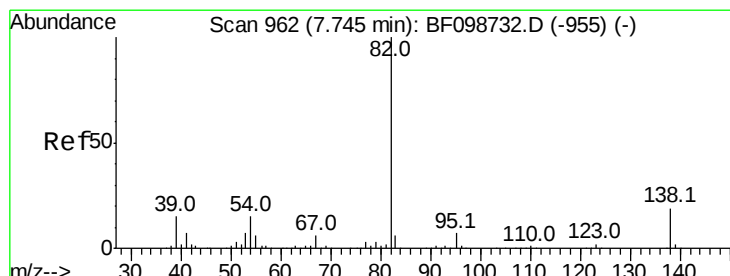
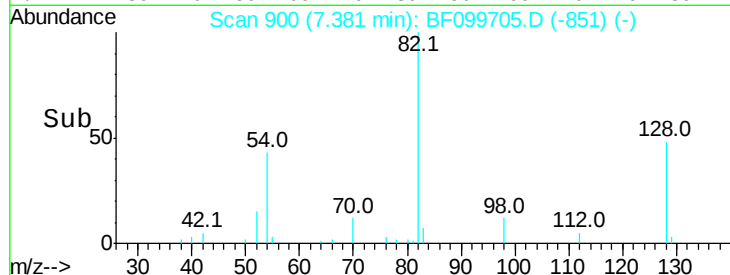
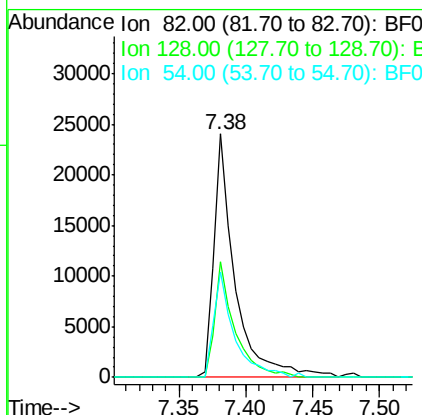
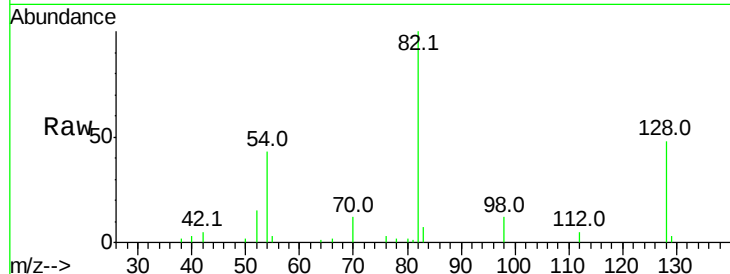




#23
Nitrobenzene-d5
Concen: 5.007 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

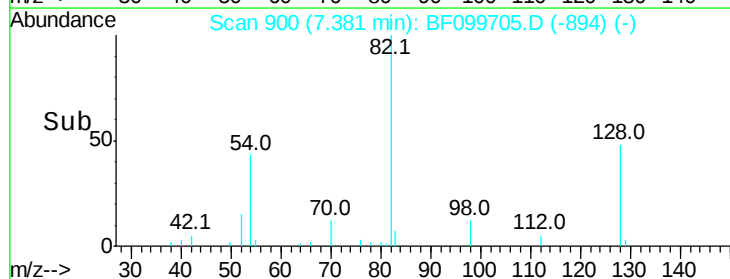
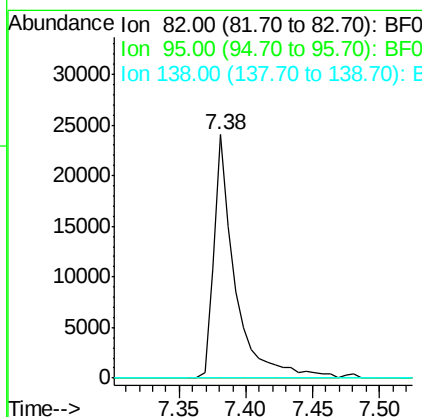
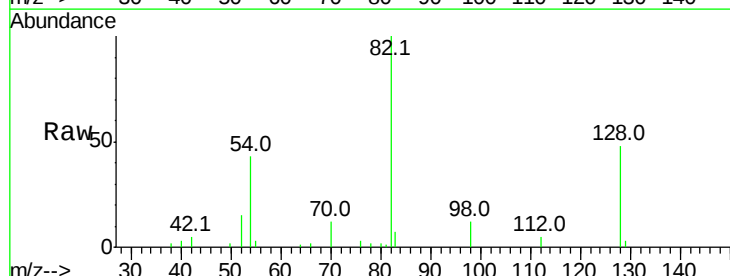
Instrument :
BNA_F
ClientSampleId :

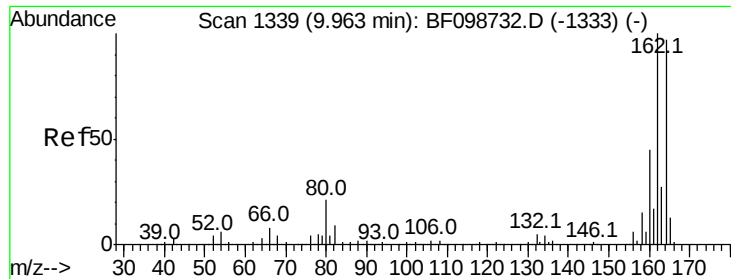
Tot Ion	82	Resp	26970
Ion Ratio	Lower	Upper	
82	100		
128	47.6	36.1	54.1
54	43.3	41.4	62.2



#25
Isophorone
Concen: 2.422 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.26 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	82	Resp	26970
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.2	7.8#
138	0.0	14.9	22.3#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

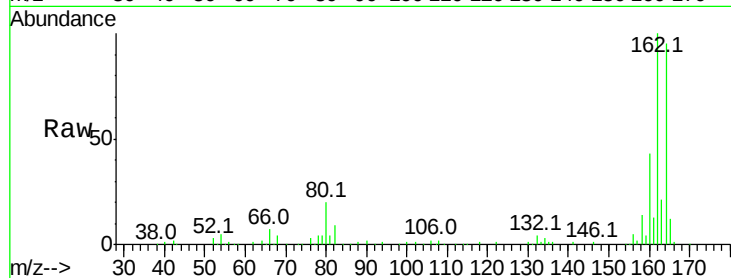
Tot Ion:164 Resp: 128841

Ion Ratio Lower Upper

164 100

162 105.8 86.1 129.1

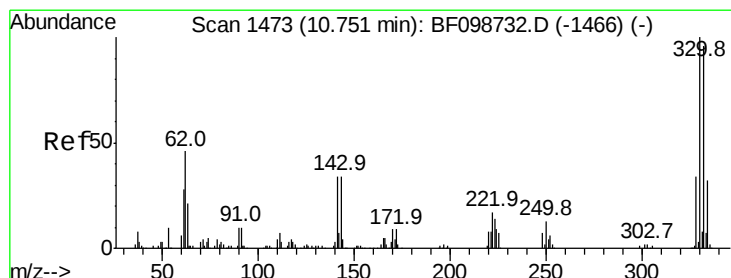
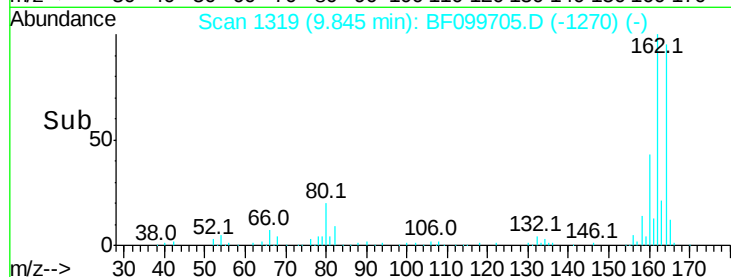
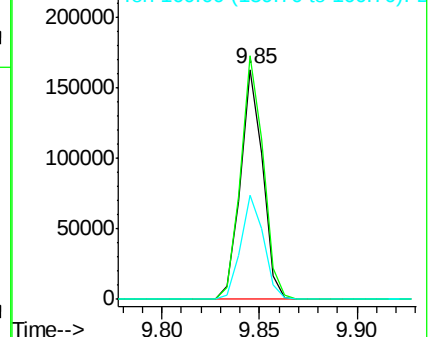
160 45.0 38.3 57.5



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



#41

2,4,6-Tribromophenol

Concen: 5.520 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

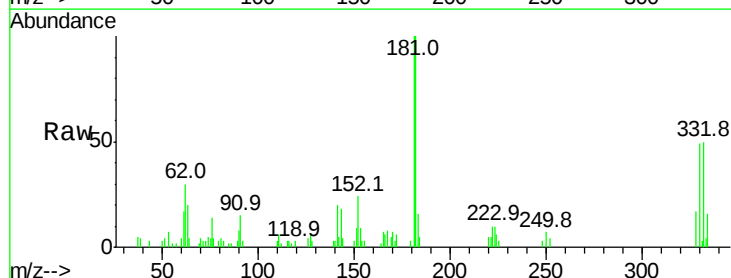
Tgt Ion:330 Resp: 5820

Ion Ratio Lower Upper

330 100

332 100.0 77.0 115.6

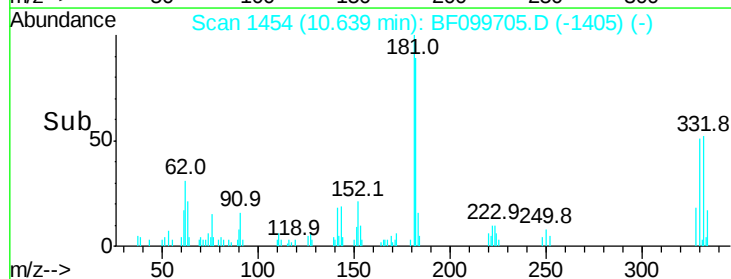
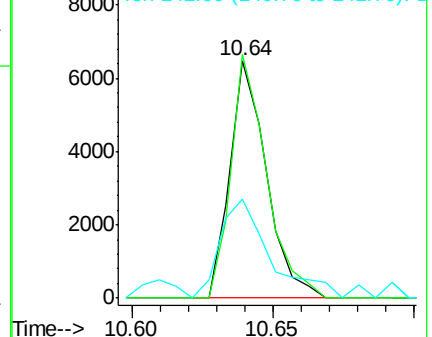
141 56.8 29.9 44.9#

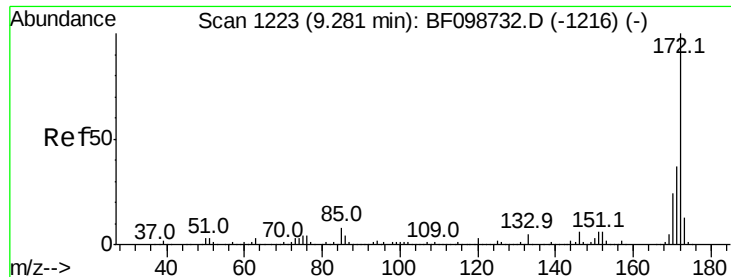


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

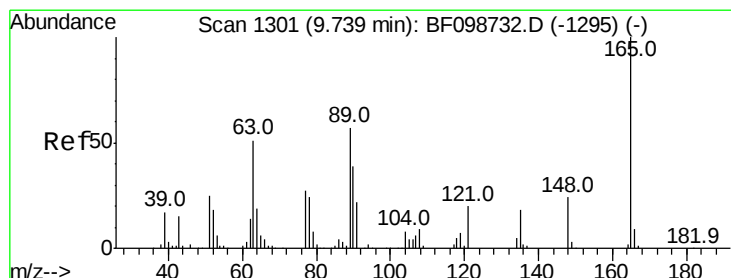
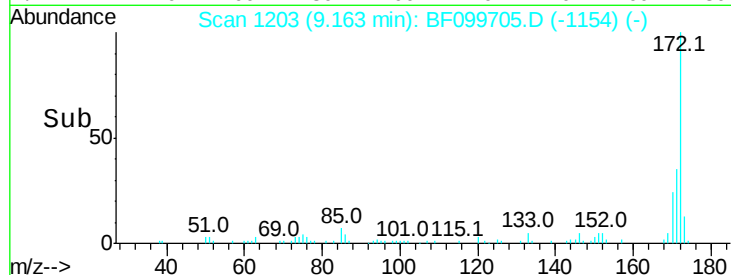
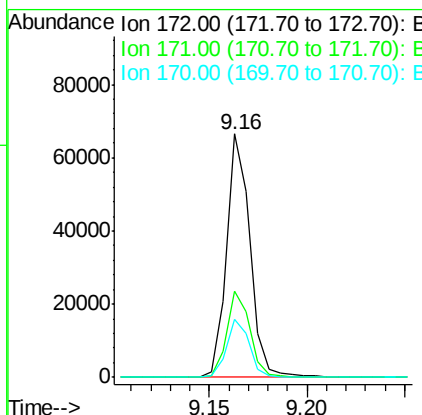
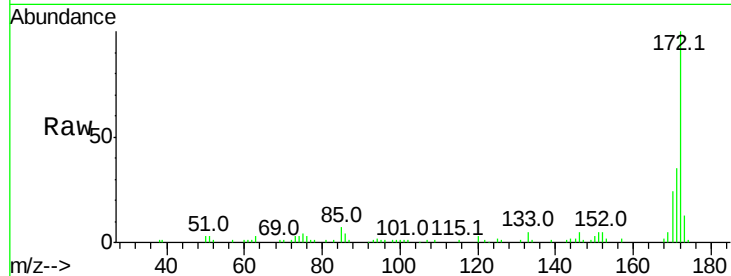




#44
 2-Fluorobiphenyl
 Concen: 7.145 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

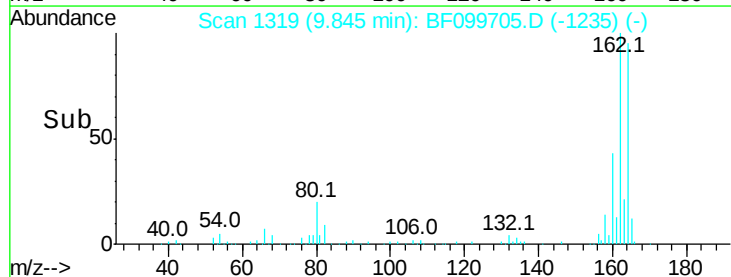
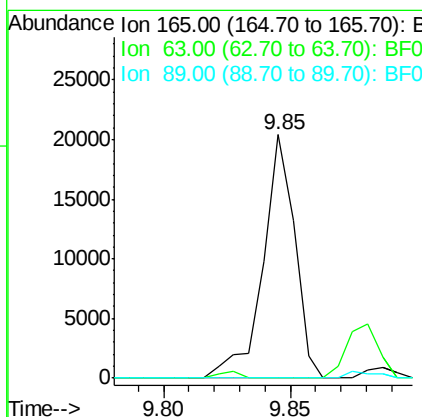
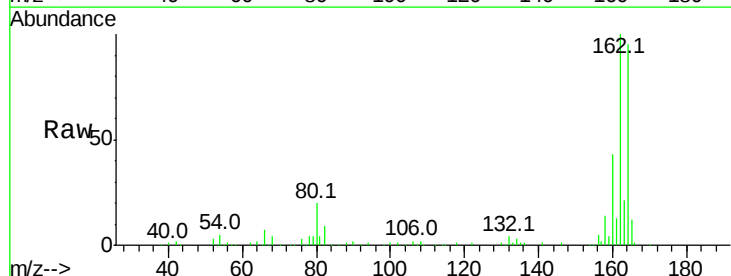
Instrument :
 BNA_F
 ClientSampleId :

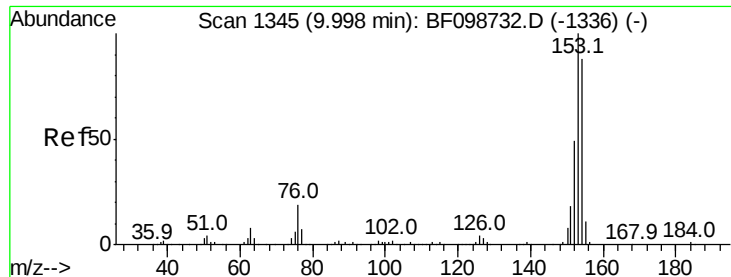
Tot Ion:172 Resp: 55140
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.7 44.5
 170 23.8 19.6 29.4



#50
 2,6-Dinitrotoluene
 Concen: 8.395 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. 0.19 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Tgt Ion:165 Resp: 17773
 Ion Ratio Lower Upper
 165 100
 63 0.0 44.7 67.1#
 89 0.0 44.0 66.0#





#51

Acenaphthene

Concen: 6.894 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

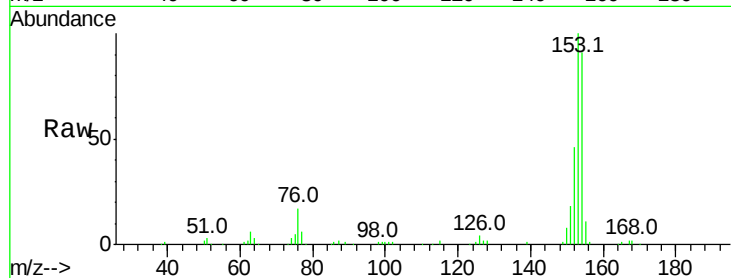
Tot Ion:154 Resp: 55577

Ion Ratio Lower Upper

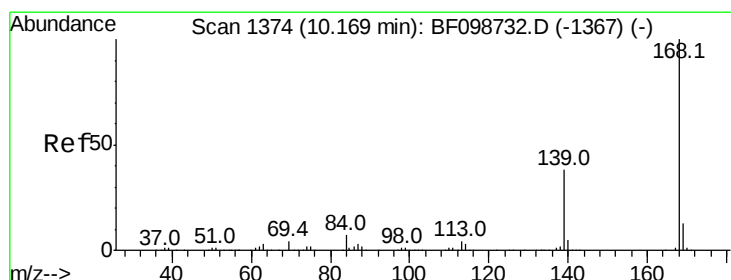
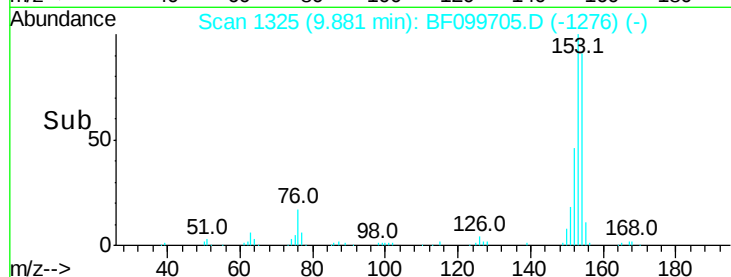
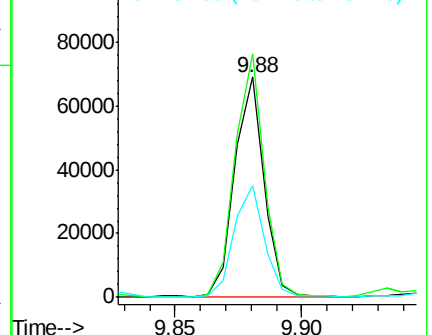
154 100

153 110.4 91.2 136.8

152 50.8 43.8 65.8



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



#54

Dibenzofuran

Concen: 3.006 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

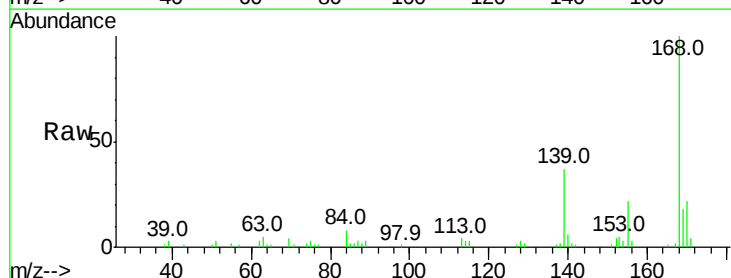
Tgt Ion:168 Resp: 32269

Ion Ratio Lower Upper

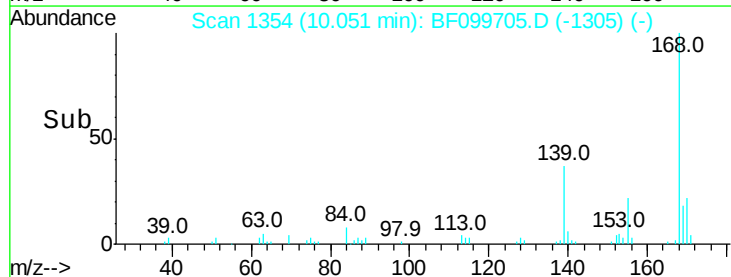
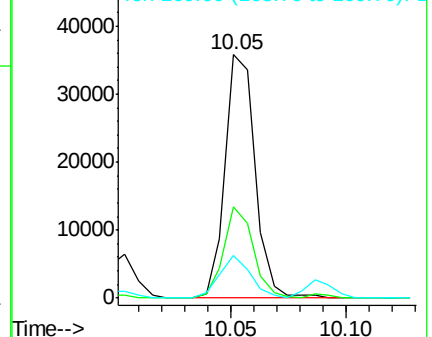
168 100

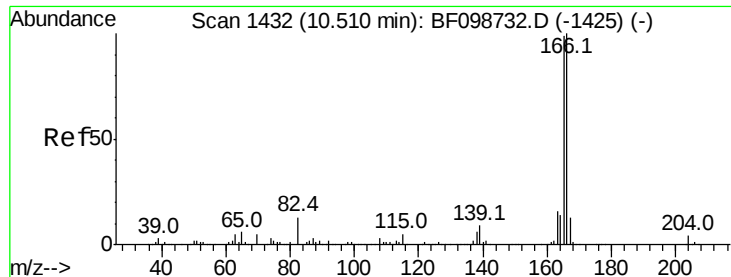
139 37.5 30.1 45.1

169 17.6 10.9 16.3#



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

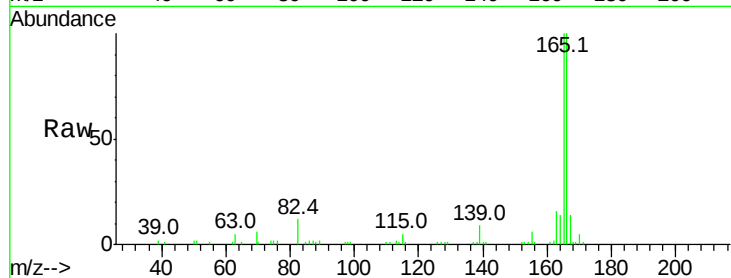




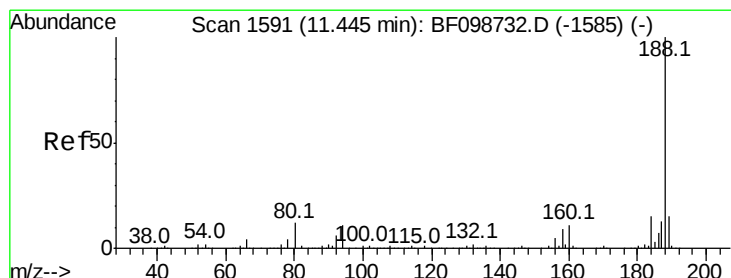
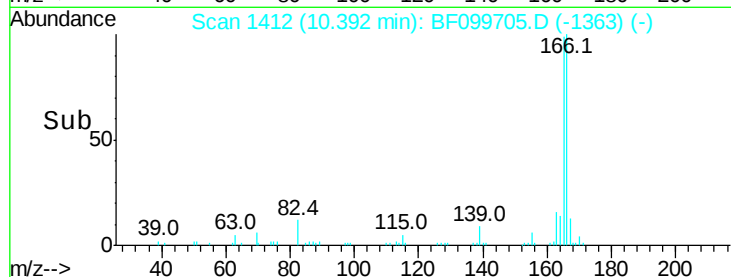
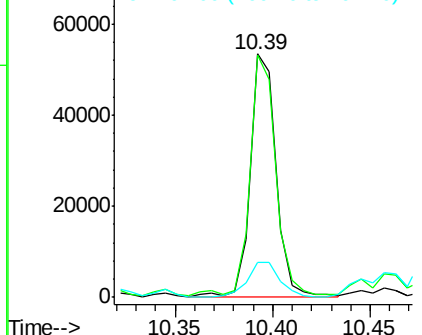
#57
Fluorene
 Concen: 5.690 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 49088
 Ion Ratio Lower Upper
 166 100
 165 99.7 79.8 119.8
 167 14.5 10.6 16.0

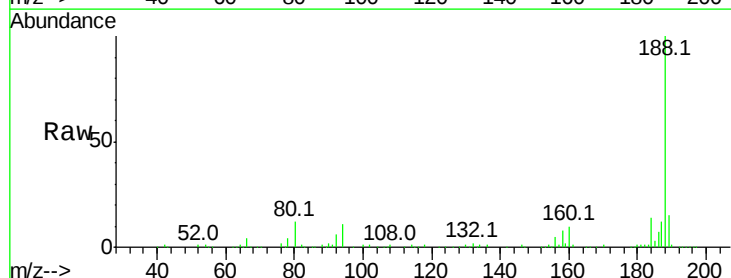


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

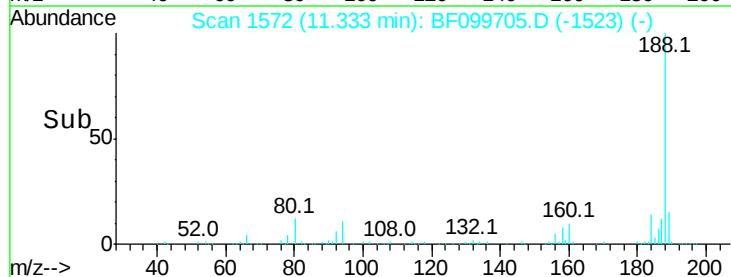
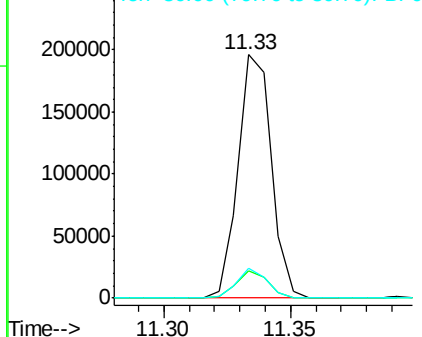


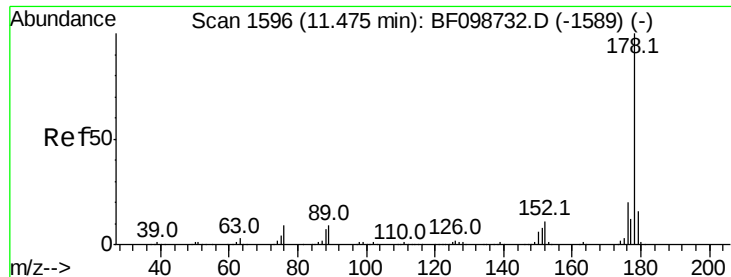
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Tgt Ion:188 Resp: 178671
 Ion Ratio Lower Upper
 188 100
 94 11.2 8.5 12.7
 80 12.0 9.2 13.8



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: 73.364 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

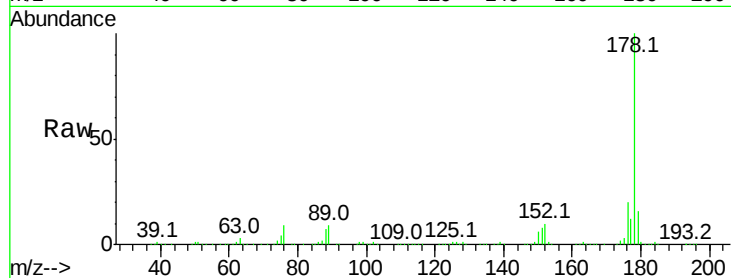
Tot Ion:178 Resp: 701637

Ion Ratio Lower Upper

178 100

176 19.8 15.8 23.8

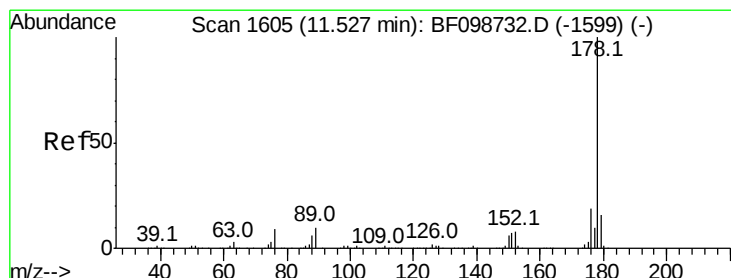
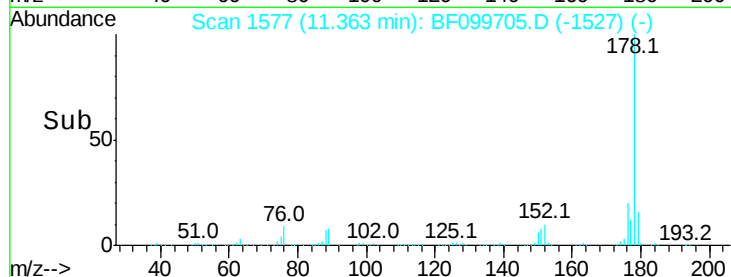
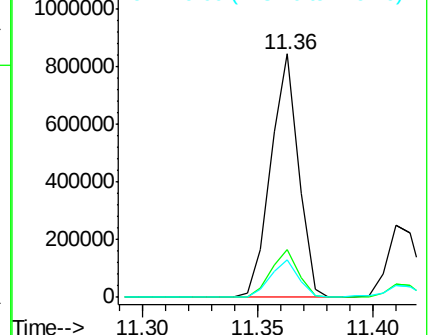
179 15.6 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 22.075 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

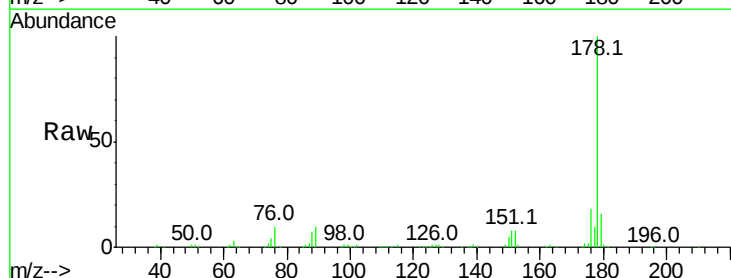
Tgt Ion:178 Resp: 216013

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

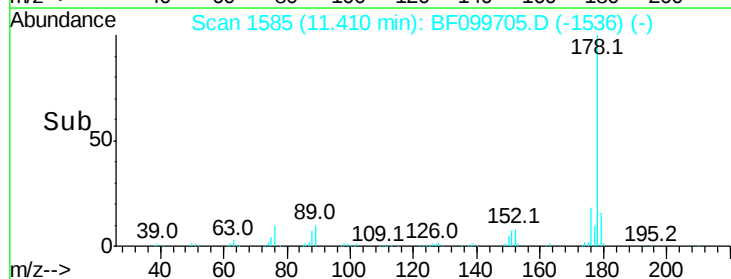
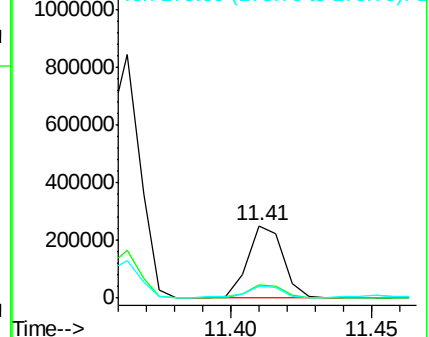
179 16.0 12.6 19.0

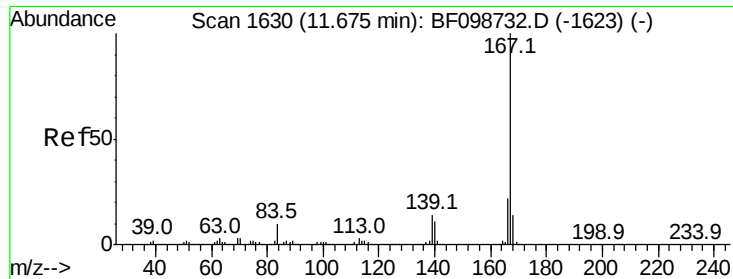


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.445 ng

RT: 11.57 min Scan# 1613

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

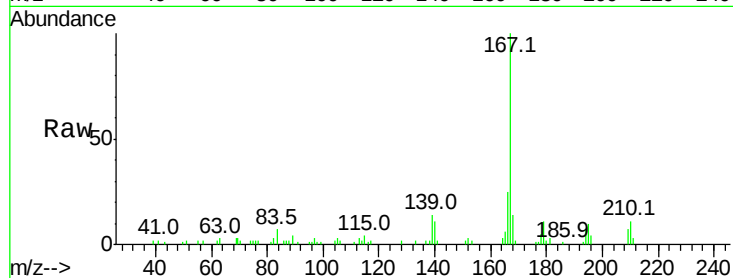
Tot Ion:167 Resp: 23426

Ion Ratio Lower Upper

167 100

166 24.7 17.6 26.4

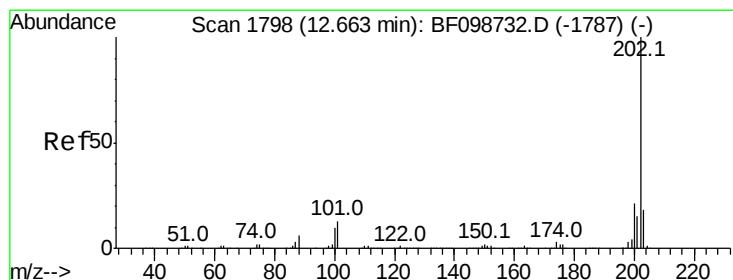
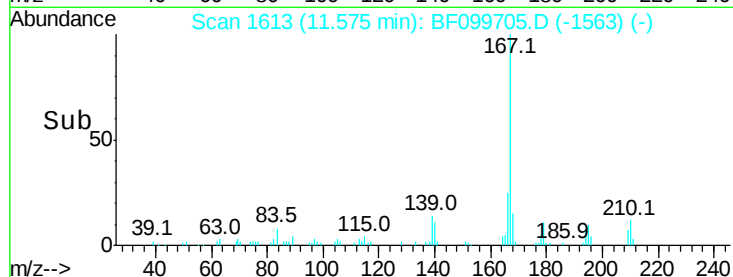
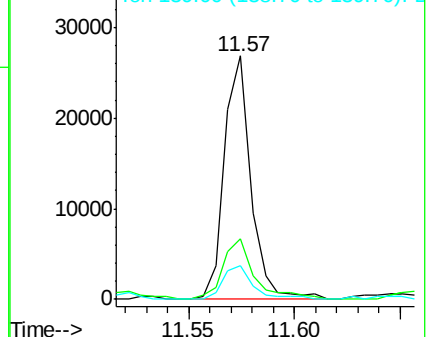
139 13.6 10.9 16.3



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: 92.853 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

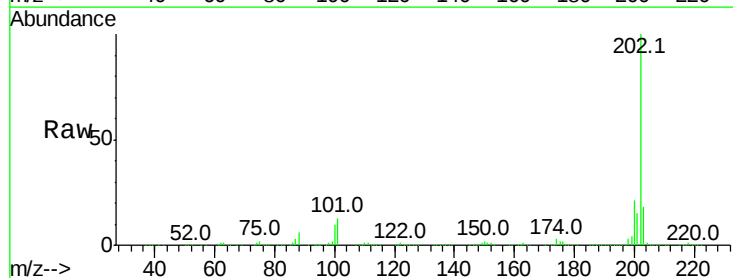
Tgt Ion:202 Resp: 899224

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

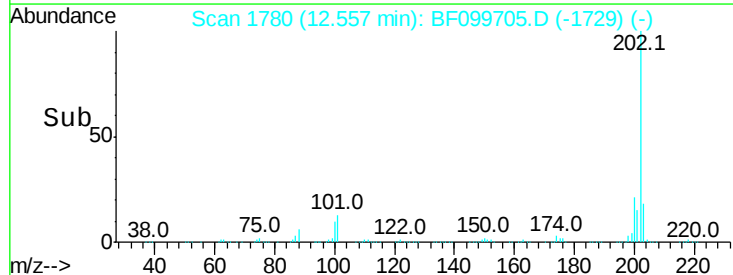
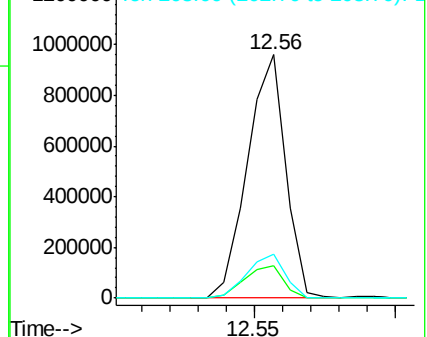
203 17.9 0.0 38.1

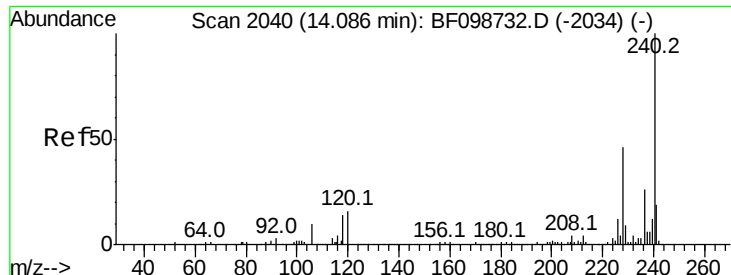


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

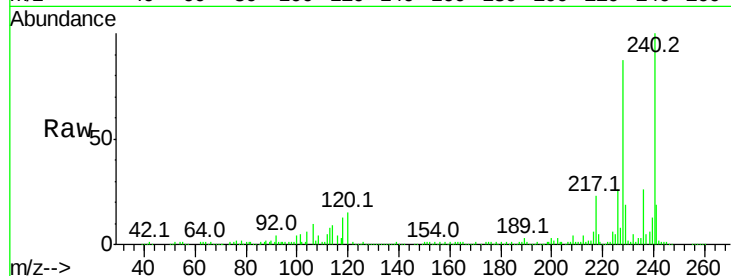
Tot Ion:240 Resp: 155006

Ion Ratio Lower Upper

240 100

120 15.4 9.5 14.3#

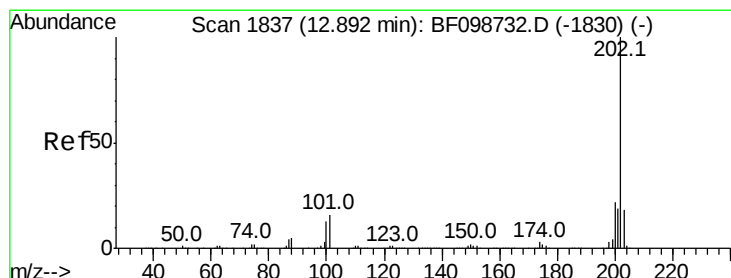
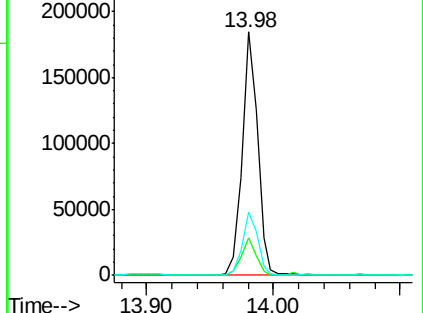
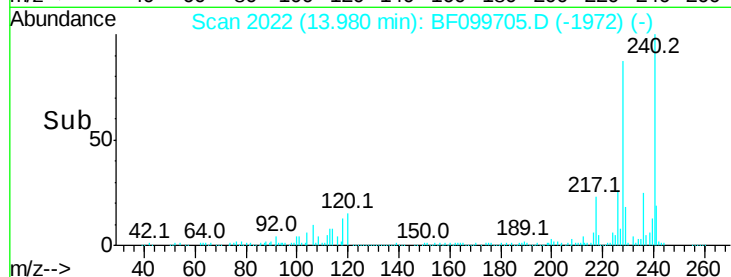
236 25.8 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 85.444 ng

RT: 12.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

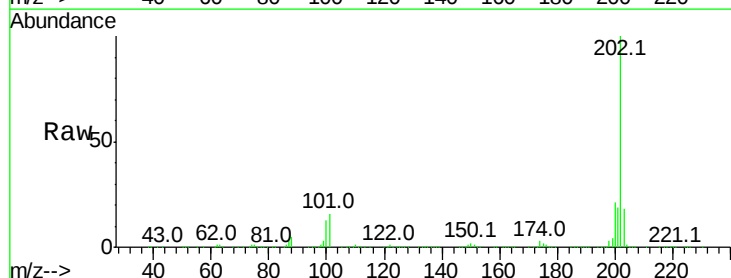
Tgt Ion:202 Resp: 1009931

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

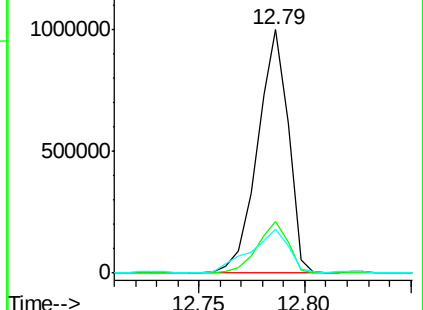
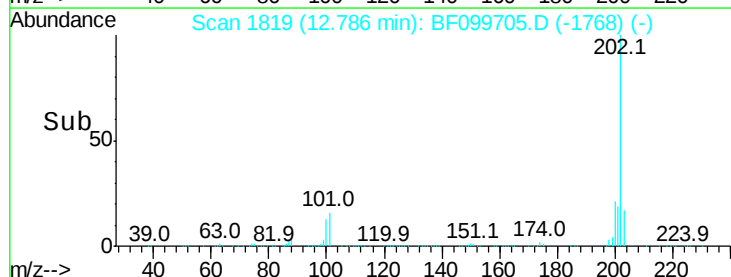
203 17.9 14.3 21.5

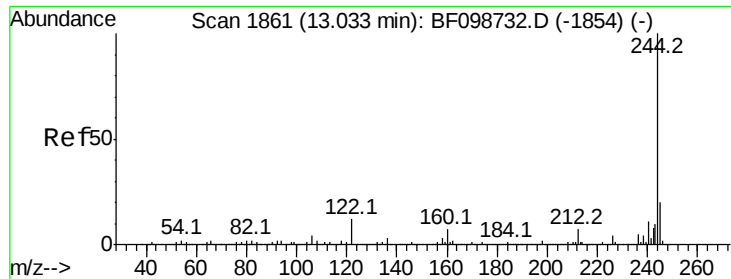


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

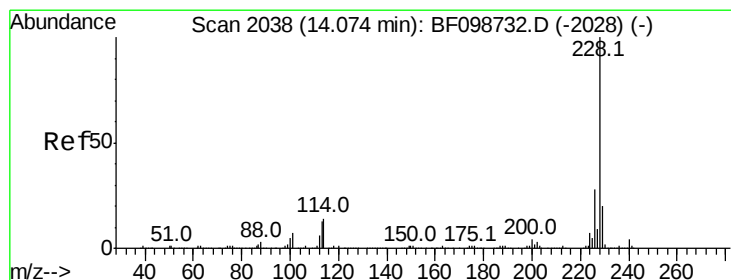
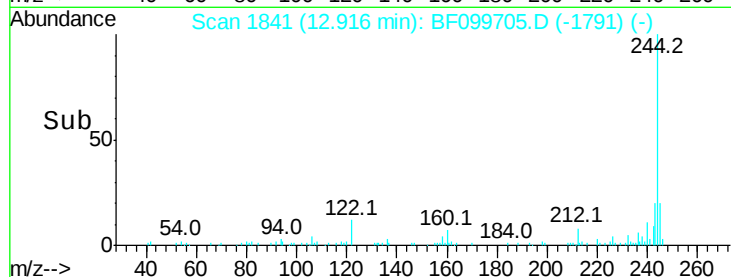
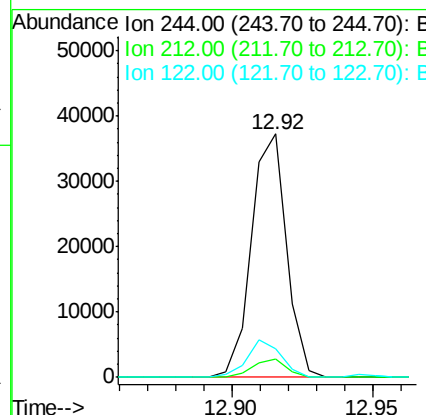
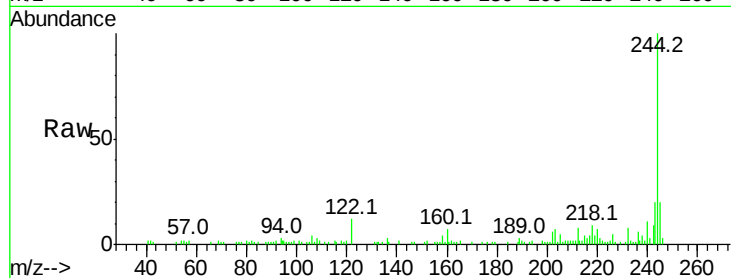




#78
 Terphenyl-d14
 Concen: 4.707 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

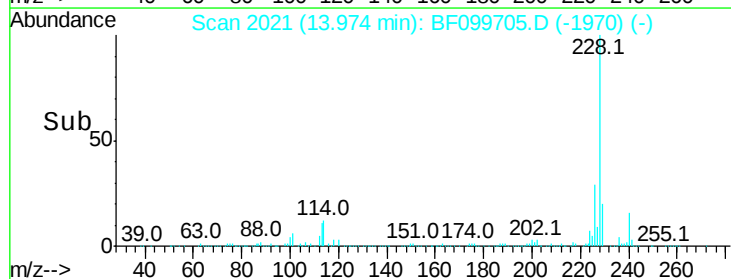
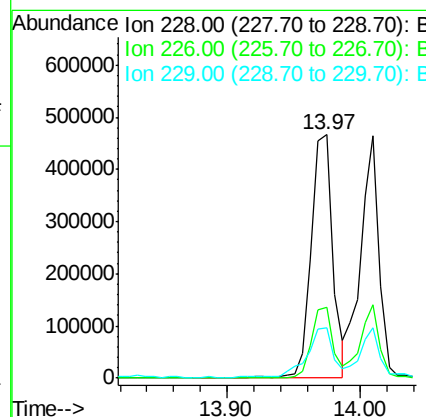
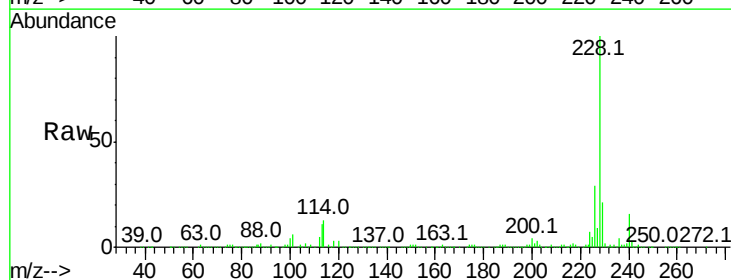
Instrument :
 BNA_F
 ClientSampleId :

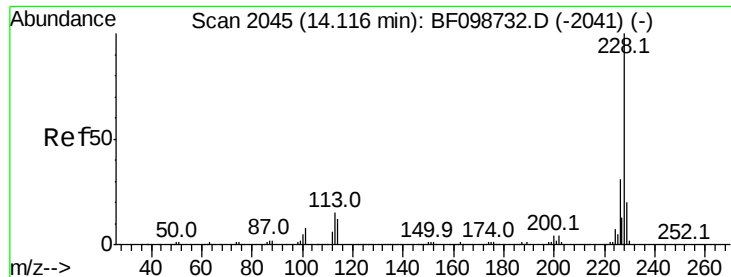
Tot Ion:244 Resp: 32081
 Ion Ratio Lower Upper
 244 100
 212 7.8 5.4 8.0
 122 11.9 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 54.224 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Tgt Ion:228 Resp: 508942
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.6 33.8
 229 20.6 15.8 23.6





#82

Chrysene

Concen: 50.266 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

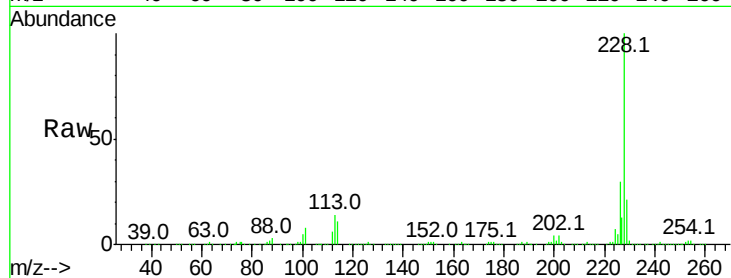
Tot Ion:228 Resp: 449172

Ion Ratio Lower Upper

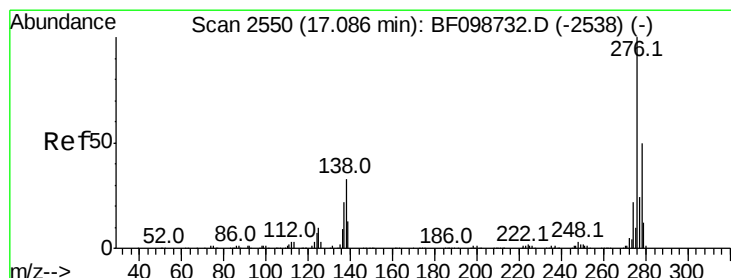
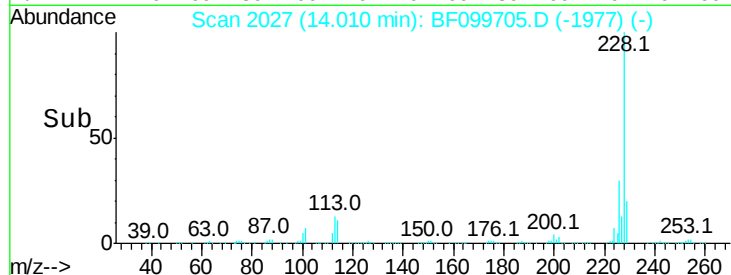
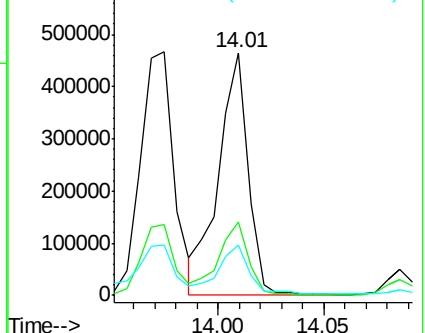
228 100

226 30.4 25.0 37.6

229 21.0 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 30.824 ng

RT: 16.91 min Scan# 2520

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

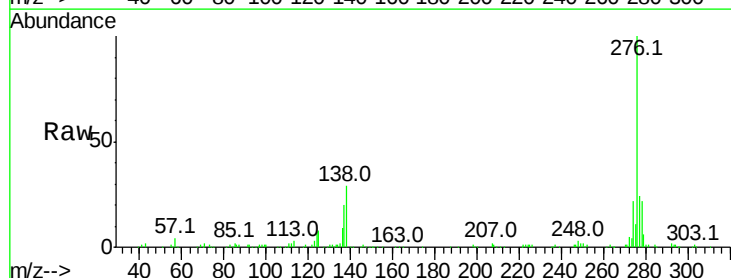
Tgt Ion:276 Resp: 220333

Ion Ratio Lower Upper

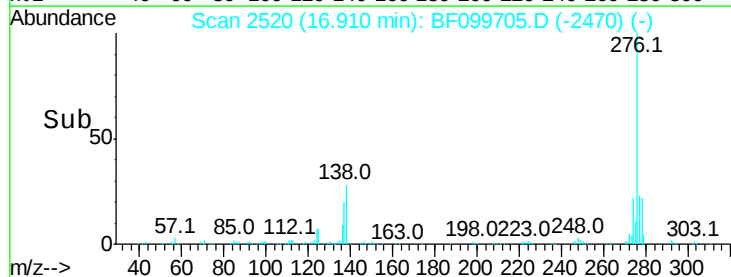
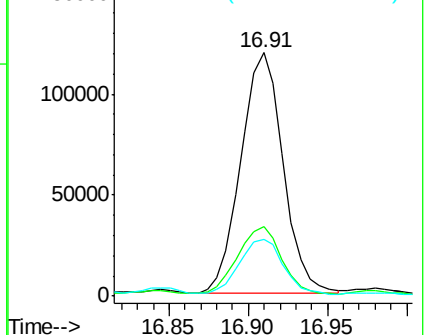
276 100

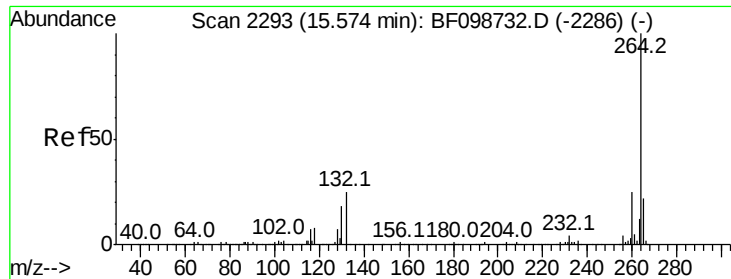
138 29.5 25.0 37.6

277 24.3 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

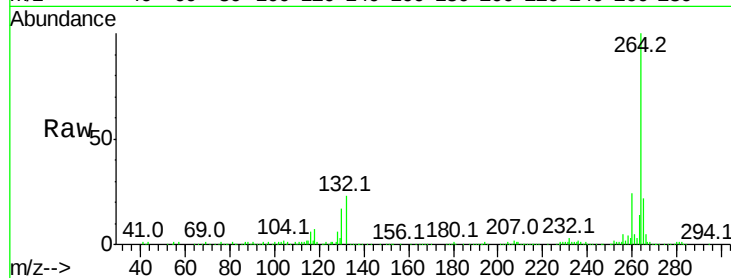




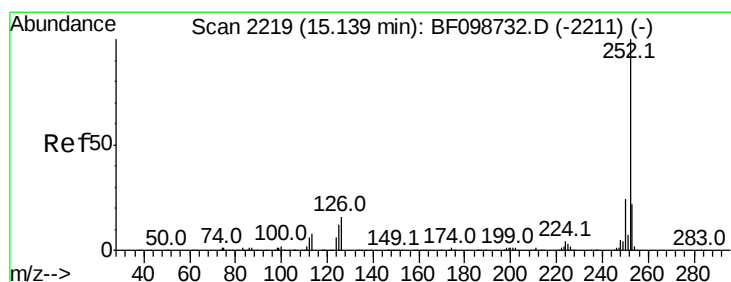
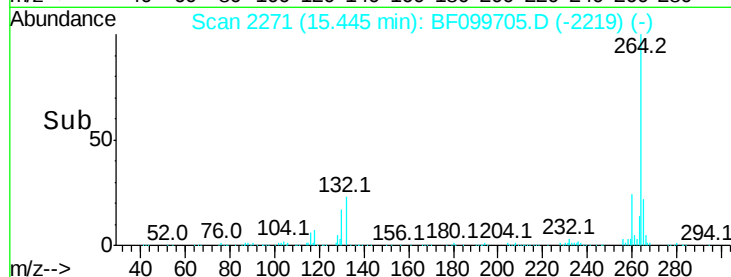
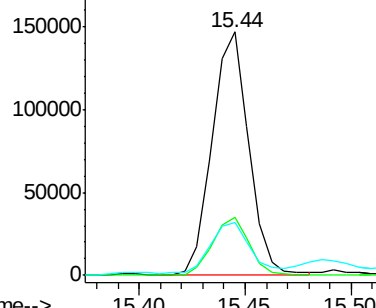
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 175907
Ion Ratio Lower Upper
264 100
260 23.9 19.2 28.8
265 21.9 17.5 26.3

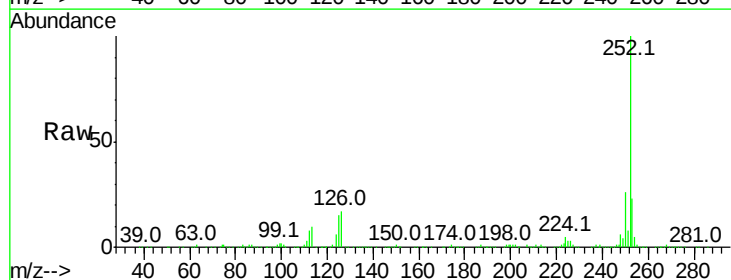


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

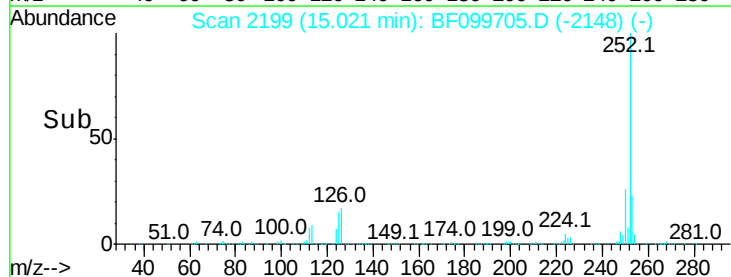
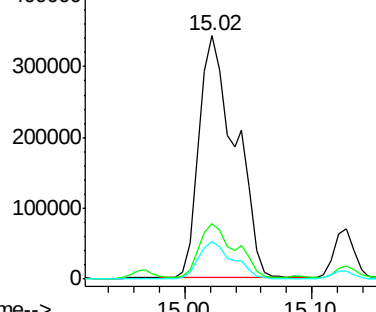


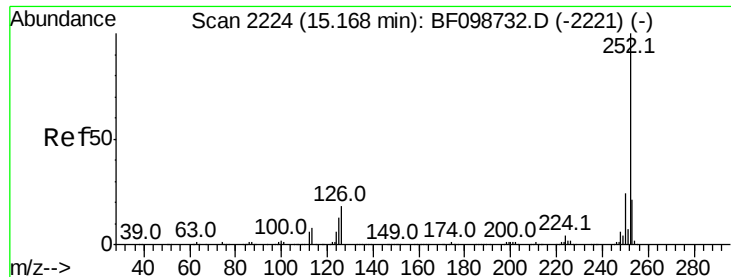
#87
Benzo(b)fluoranthene
Concen: 62.989 ng
RT: 15.02 min Scan# 2199
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion:252 Resp: 681255
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.6
125 15.2 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 63.769 ng

RT: 15.02 min Scan# 2199

Delta R.T. -0.03 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

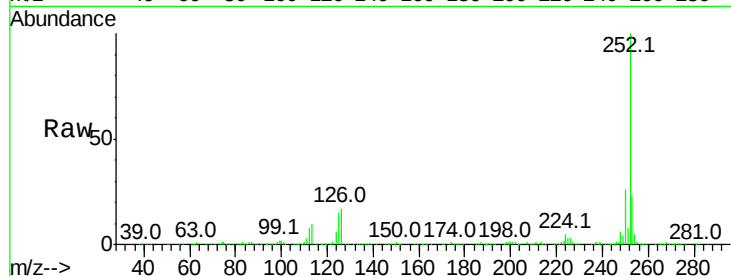
Tot Ion:252 Resp: 681206

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

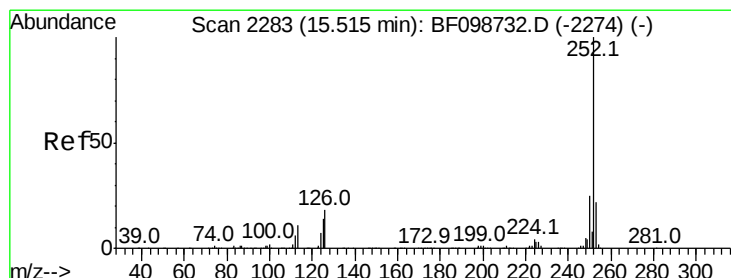
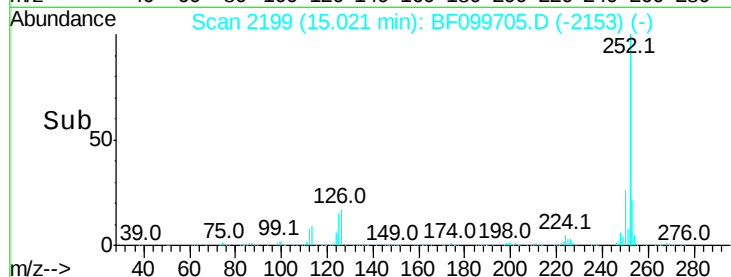
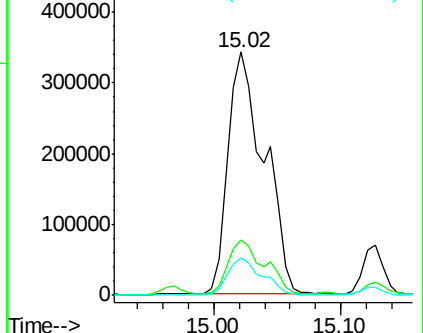
125 15.2 10.2 15.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 43.419 ng

RT: 15.39 min Scan# 2261

Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

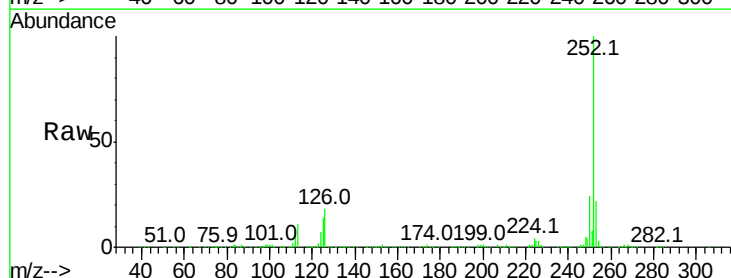
Tgt Ion:252 Resp: 431060

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

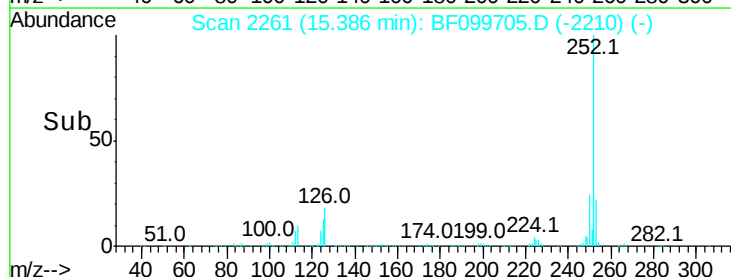
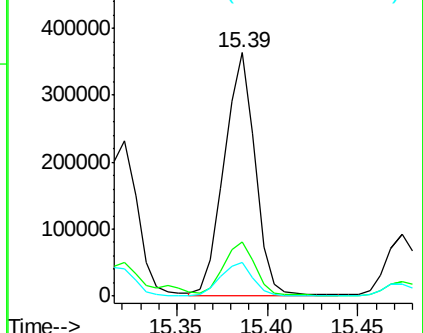
125 13.6 9.8 14.6

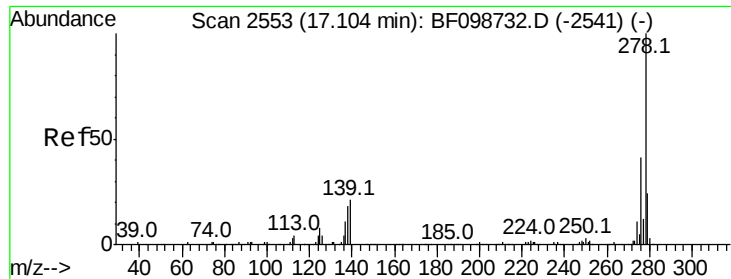


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 6.552 ng

RT: 17.07 min Scan# 2548

Delta R.T. 0.15 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

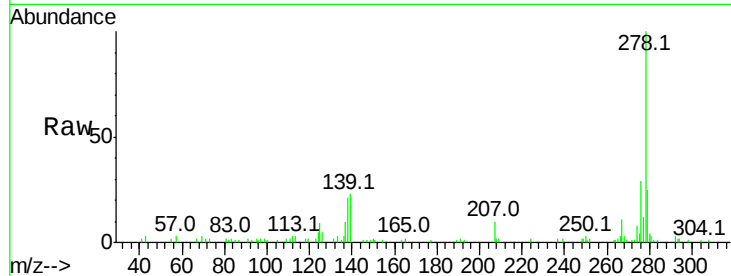
Tot Ion:278 Resp: 52058

Ion Ratio Lower Upper

278 100

139 22.9 15.9 23.9

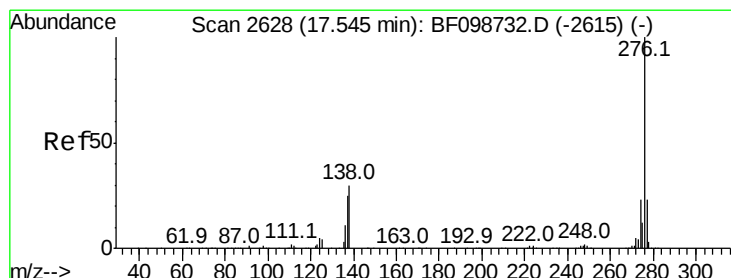
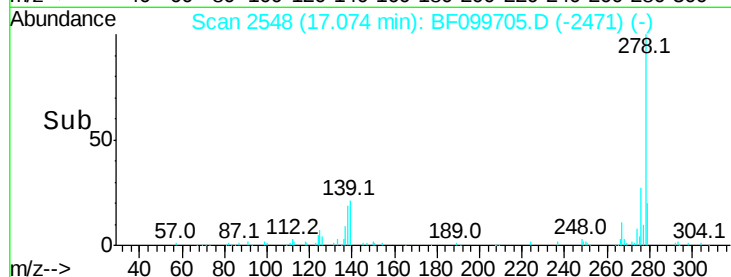
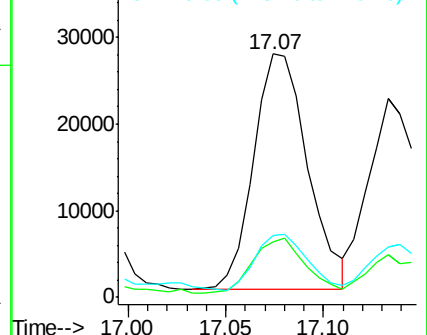
279 25.4 19.0 28.4



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: 27.786 ng

RT: 17.36 min Scan# 2596

Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

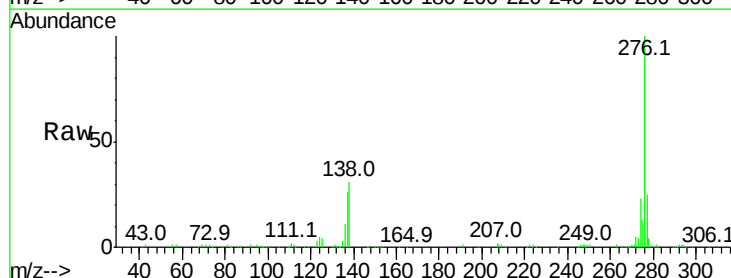
Tgt Ion:276 Resp: 218222

Ion Ratio Lower Upper

276 100

277 24.7 17.9 26.9

138 31.3 21.8 32.8



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

