

Data Path : Z:\HPCHEM1\BNA_F\Data\BF051716\
 Data File : BF087139.D
 Acq On : 18 May 2016 9:02
 Operator : UM/SJ
 Sample : H2968-06 2X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

Quant Time: May 18 13:20:15 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	92954	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	353784	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	137517	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	237135	20.00	ng	-0.01
75) Chrysene-d12	13.74	240	212859	20.00	ng	-0.02
86) Perylene-d12	15.11	264	145324	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.18	112	548460	99.18	ng	-0.02
7) Phenol-d6	6.26	99	727754	98.12	ng	-0.02
23) Nitrobenzene-d5	7.16	82	464171	65.39	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	111100	73.11	ng	-0.02
44) 2-Fluorobiphenyl	8.96	172	599103	72.15	ng	-0.02
78) Terphenyl-d14	12.68	244	436244	46.36	ng	-0.02

Target Compounds

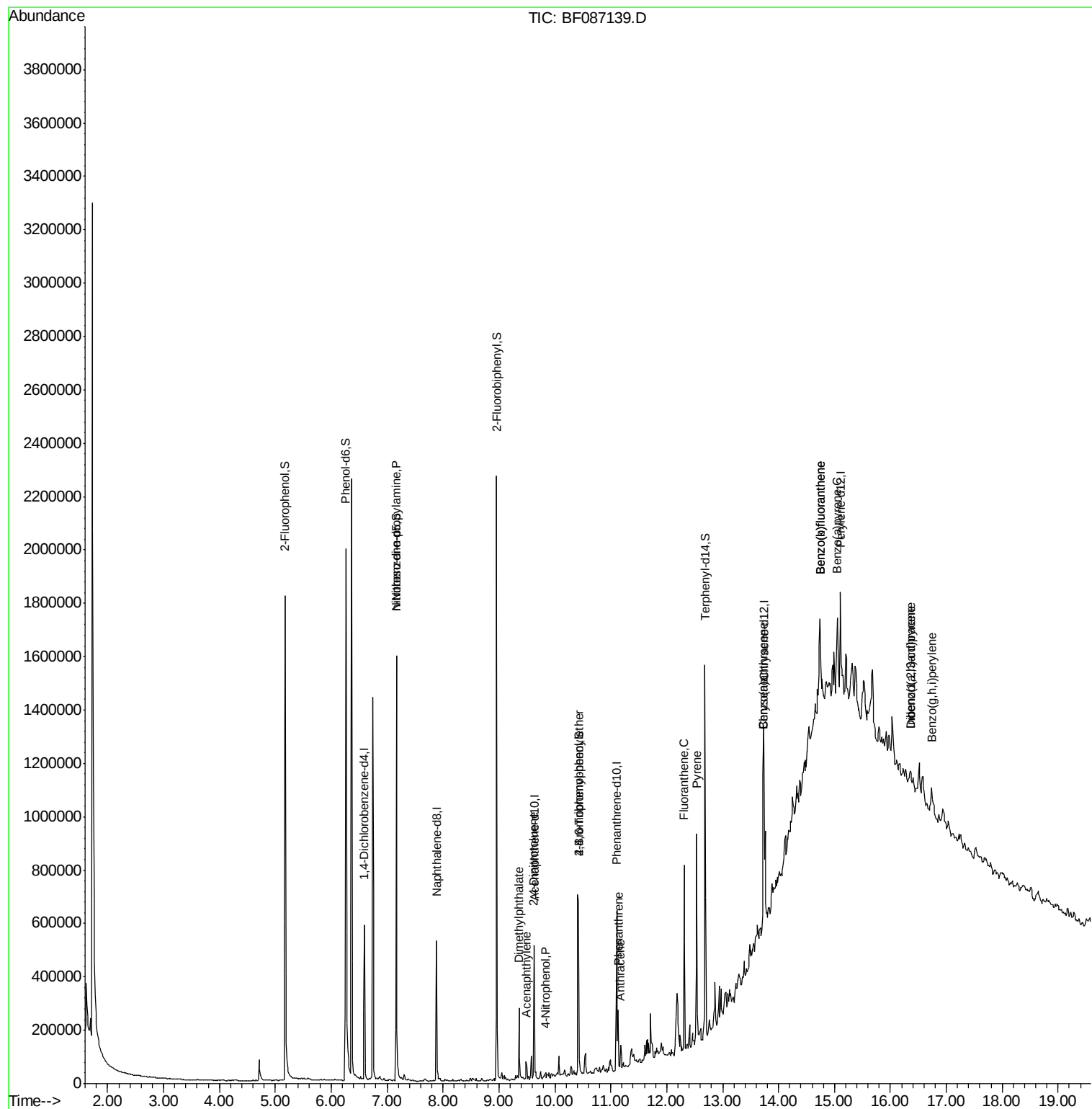
						Qvalue
9) Benzaldehyde	6.26	77	1066	Below Cal	#	4
19) n-Nitroso-di-n-propylamine	7.16	70	65917	11.69 ng	#	74
48) Acenaphthylene	9.48	152	37884	2.83 ng		97
49) Dimethylphthalate	9.36	163	95149	9.07 ng		99
55) 4-Nitrophenol	9.84	139	1828	2.44 ng	#	48
56) 2,4-Dinitrotoluene	9.62	165	17651	6.05 ng	#	16
66) 4-Bromophenyl-phenylether	10.42	248	6990	2.87 ng	#	1
70) Phenanthrene	11.13	178	85611	6.66 ng		97
71) Anthracene	11.18	178	41701	3.21 ng		99
74) Fluoranthene	12.31	202	336672	26.13 ng		99
77) Pyrene	12.54	202	291726	18.97 ng		99
80) Benzo(a)anthracene	13.73	228	187718	15.25 ng	#	91
82) Chrysene	13.73	228	187718	15.76 ng		92
85) Indeno(1,2,3-cd)pyrene	16.37	276	53987	5.17 ng		93
87) Benzo(b)fluoranthene	14.74	252	195926	20.32 ng	#	91
88) Benzo(k)fluoranthene	14.74	252	196598	27.39 ng	#	88
89) Benzo(a)pyrene	15.05	252	94349	11.71 ng	#	83
90) Dibenzo(a,h)anthracene	16.37	278	17268	2.55 ng	#	33
91) Benzo(g,h,i)perylene	16.74	276	49248	7.19 ng	#	90

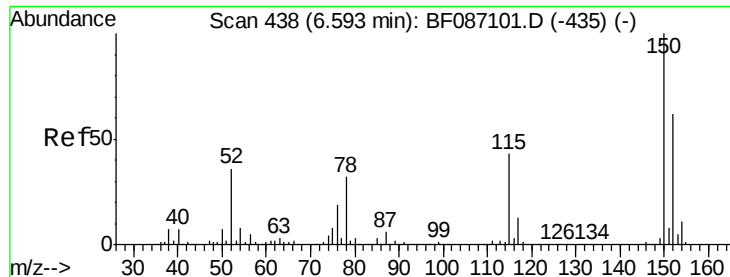
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

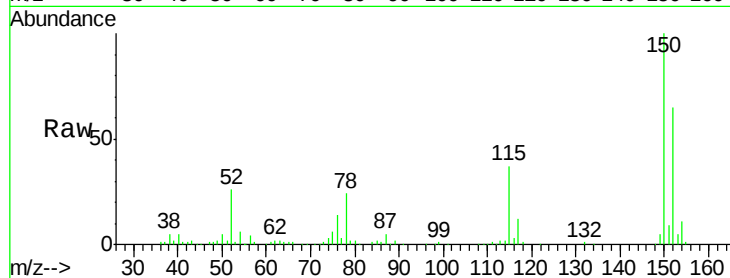
Tgt Ion:152 Resp: 92954

Ion Ratio Lower Upper

152 100

150 154.7 125.8 188.6

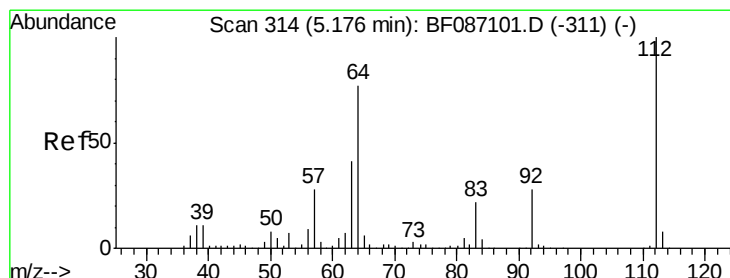
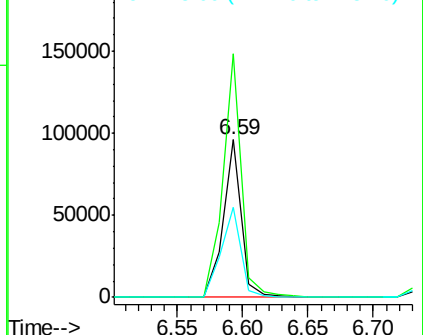
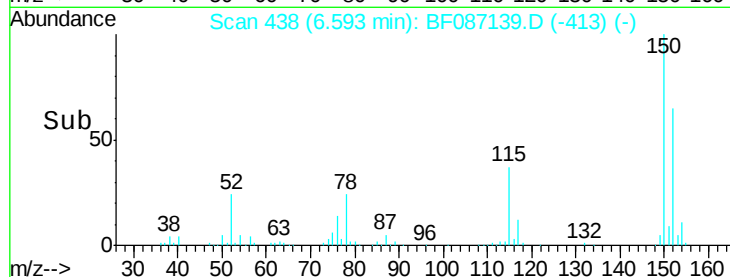
115 57.5 51.5 77.3



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: 99.18 ng

RT: 5.18 min Scan# 314

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

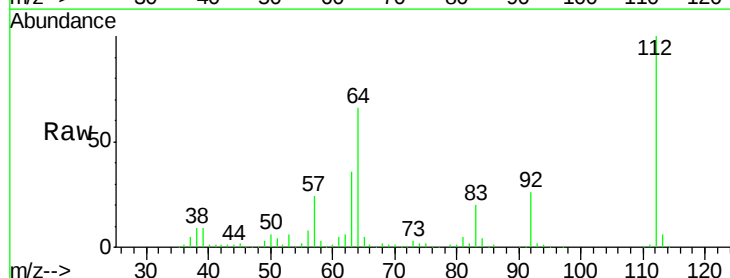
Tgt Ion:112 Resp: 548460

Ion Ratio Lower Upper

112 100

64 65.8 52.1 78.1

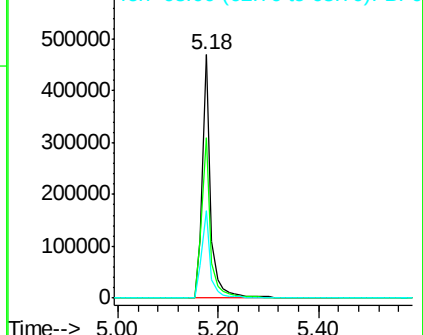
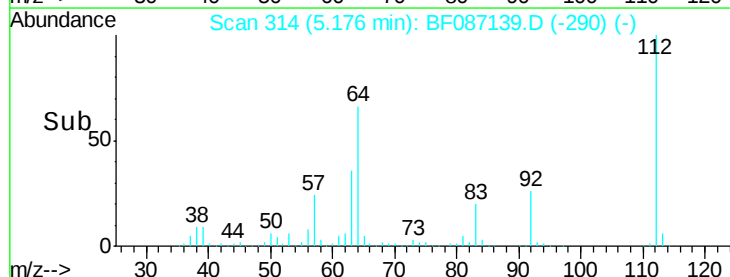
63 35.7 25.7 38.5



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: 98.12 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

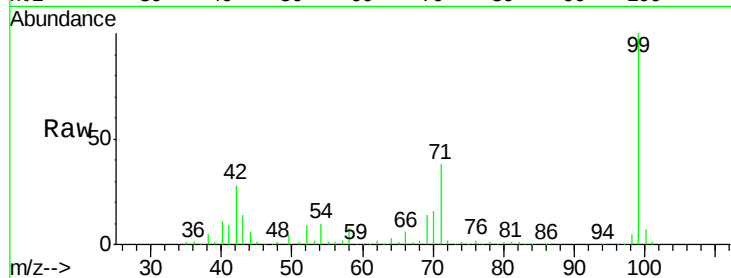
Tgt Ion: 99 Resp: 727754

Ion Ratio Lower Upper

99 100

42 28.0 13.6 20.4#

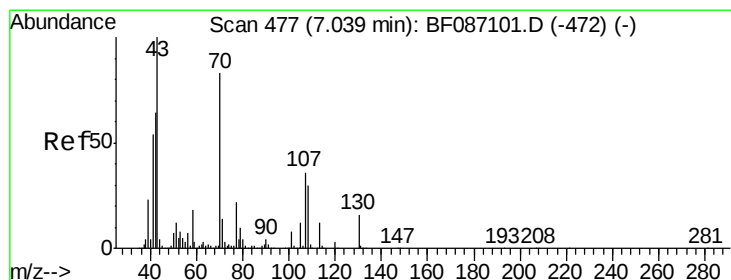
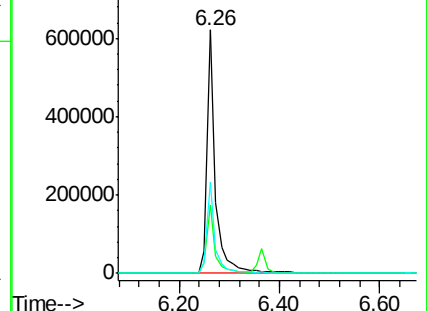
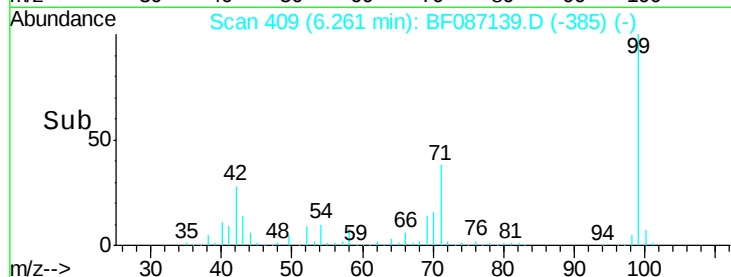
71 37.5 24.6 36.8#



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



#19

n-Nitroso-di-n-propylamine

Concen: 11.69 ng

RT: 7.16 min Scan# 488

Delta R.T. 0.11 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Tgt Ion: 70 Resp: 65917

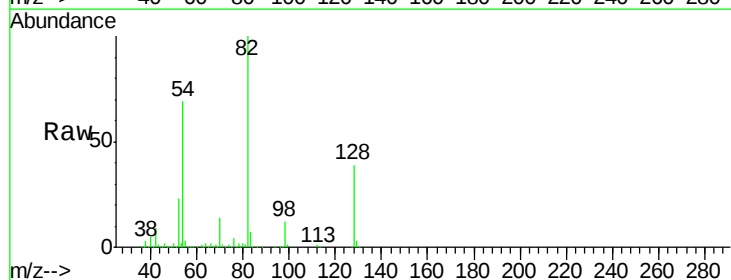
Ion Ratio Lower Upper

70 100

42 66.6 43.1 64.7#

101 0.0 8.1 12.1#

130 1.8 18.6 28.0#

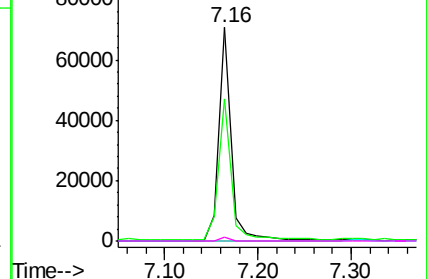
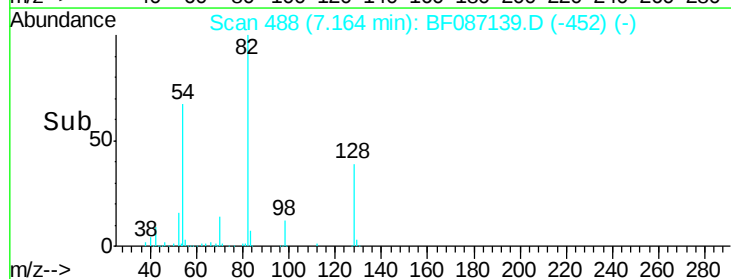


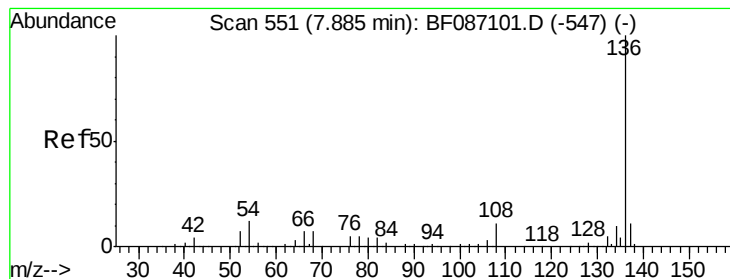
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

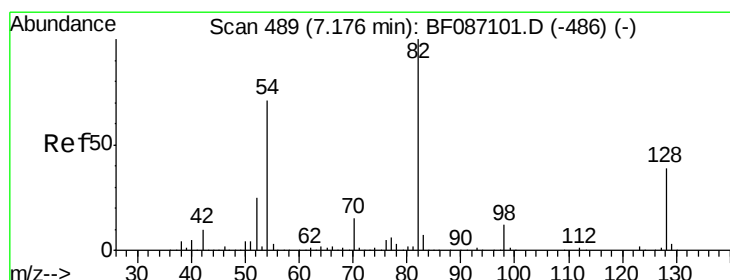
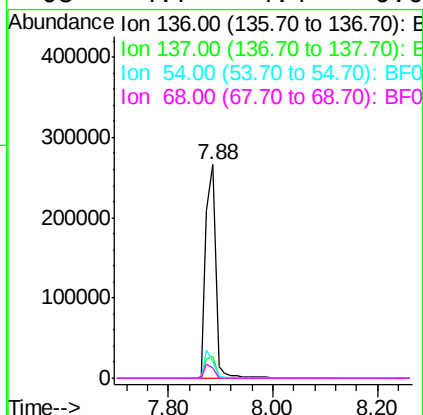
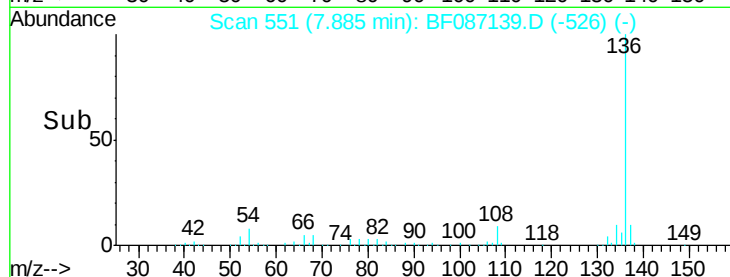
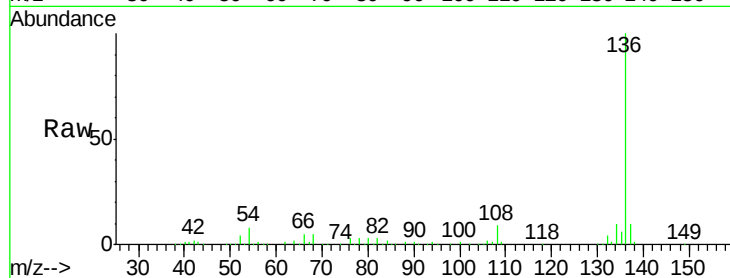




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.88 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

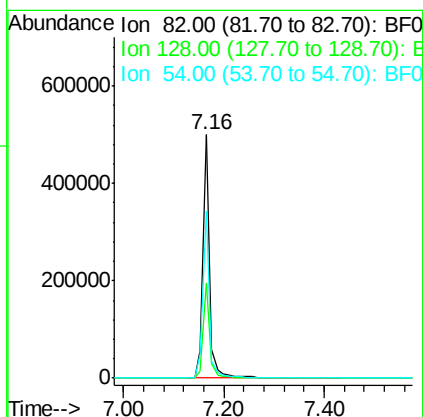
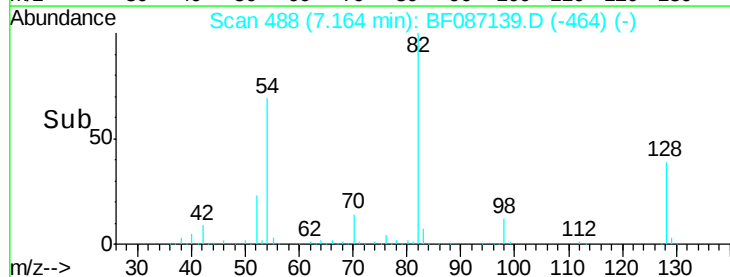
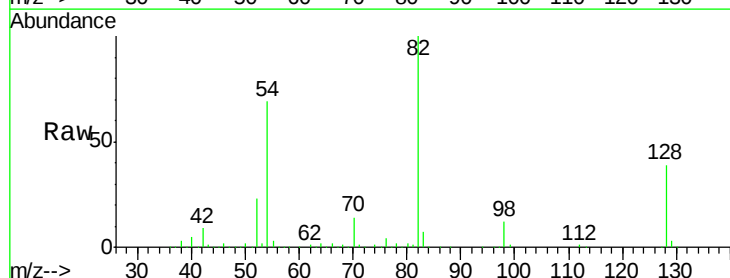
Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

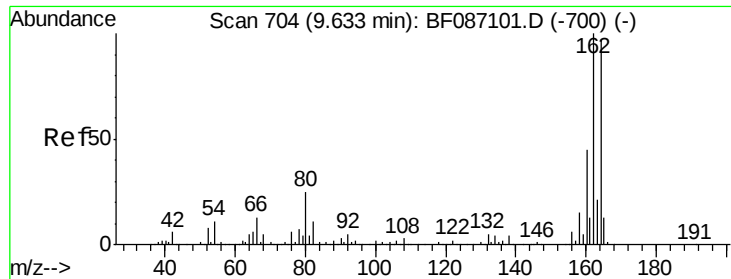
Tgt Ion:	136	Resp:	353784
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.8	13.2
54	7.7	5.0	7.4#
68	4.7	4.4	6.6



#23
Nitrobenzene-d5
Concen: 65.39 ng
RT: 7.16 min Scan# 488
Delta R.T. -0.02 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion:	82	Resp:	464171
Ion	Ratio	Lower	Upper
82	100		
128	39.2	40.6	61.0#
54	68.6	38.1	57.1#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

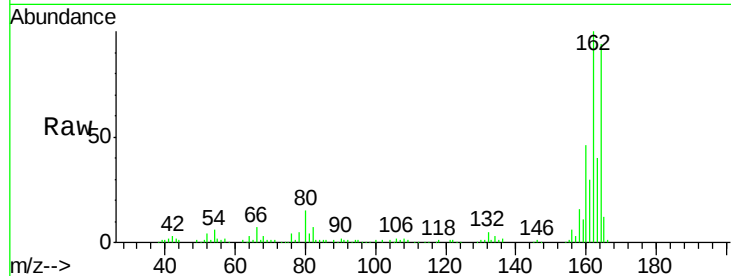
Tgt Ion:164 Resp: 137517

Ion Ratio Lower Upper

164 100

162 106.0 82.8 124.2

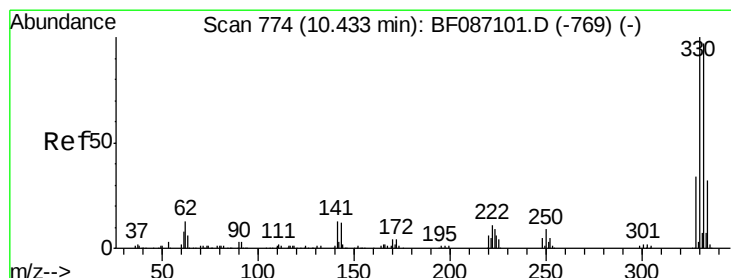
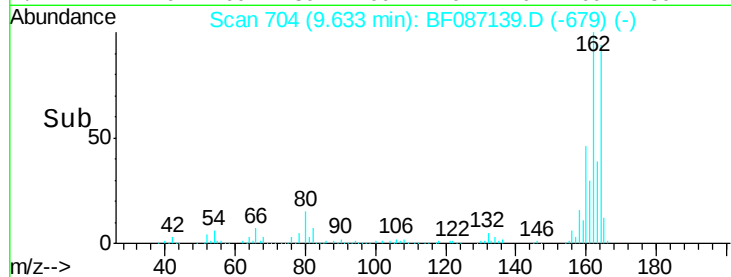
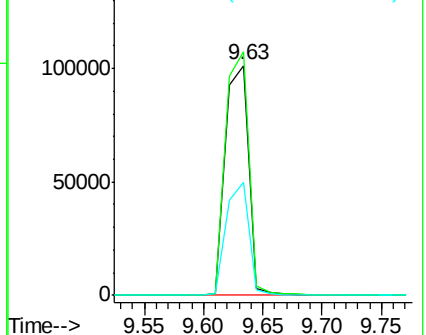
160 49.2 36.9 55.3



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: 73.11 ng

RT: 10.42 min Scan# 773

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

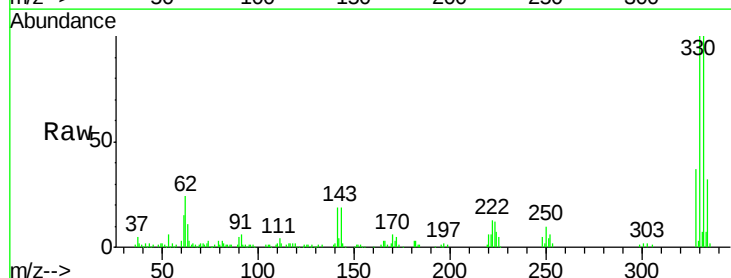
Tgt Ion:330 Resp: 111100

Ion Ratio Lower Upper

330 100

332 98.7 79.0 118.4

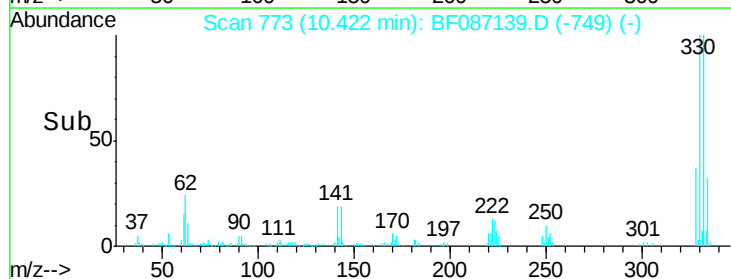
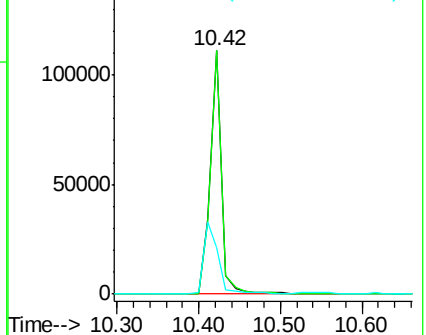
141 38.1 31.2 46.8

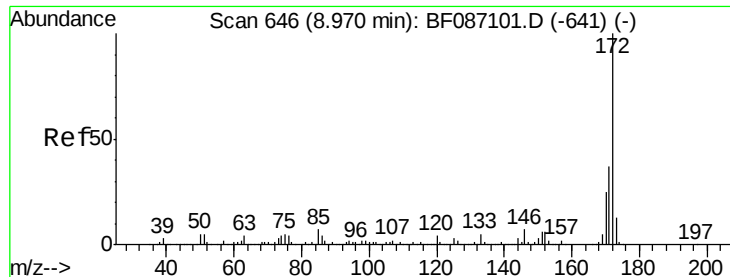


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

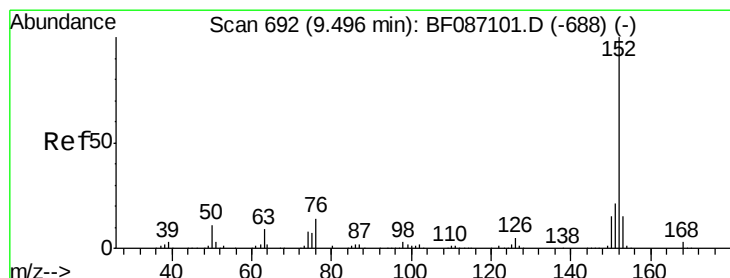
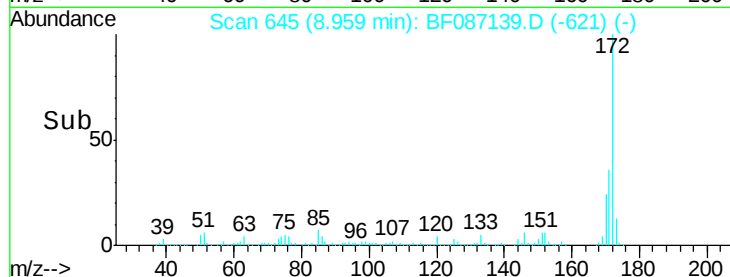
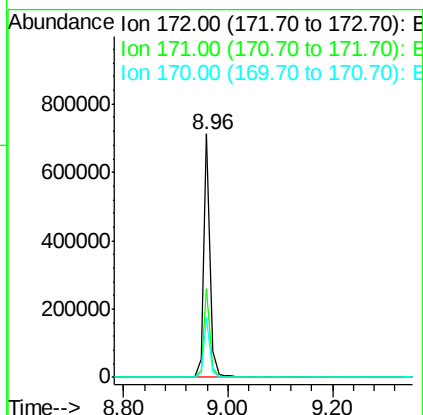
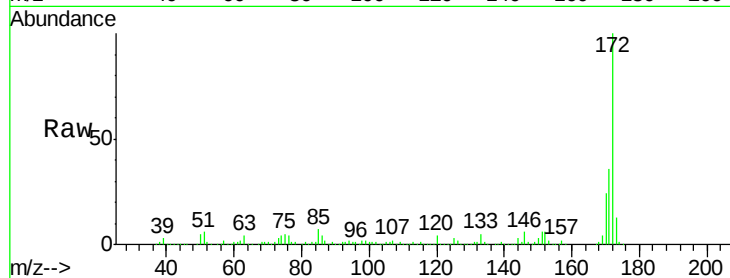




#44
 2-Fluorobiphenyl
 Concen: 72.15 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

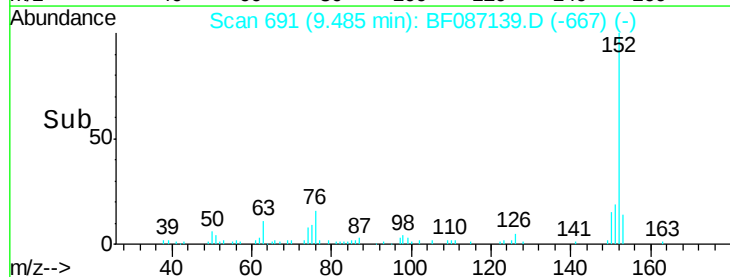
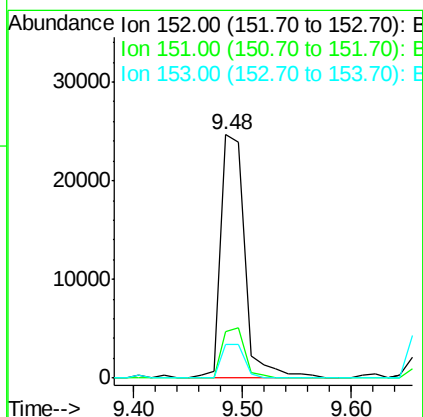
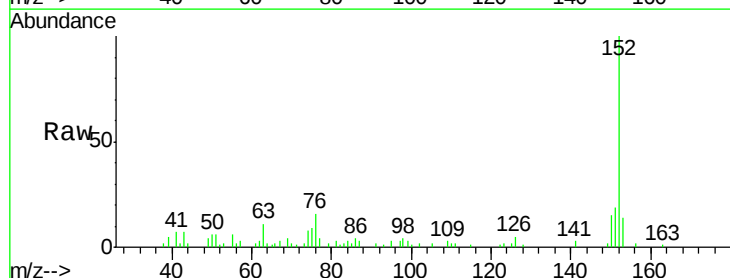
Instrument :
 BNA_F
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 TP42-4.5FTRE

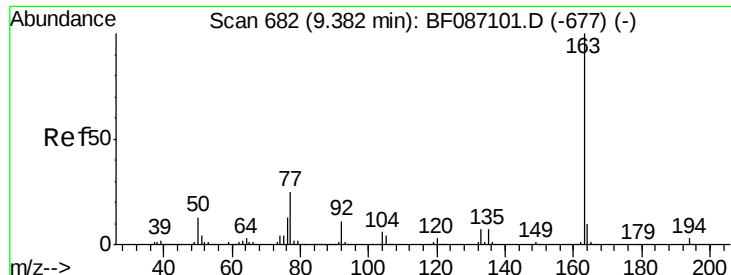
Tgt Ion:172 Resp: 599103
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.0 43.6
 170 24.2 19.8 29.8



#48
 Acenaphthylene
 Concen: 2.83 ng
 RT: 9.48 min Scan# 691
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion:152 Resp: 37884
 Ion Ratio Lower Upper
 152 100
 151 19.2 16.8 25.2
 153 14.1 10.9 16.3





#49

Dimethylphthalate

Concen: 9.07 ng

RT: 9.36 min Scan# 680

Delta R.T. -0.03 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

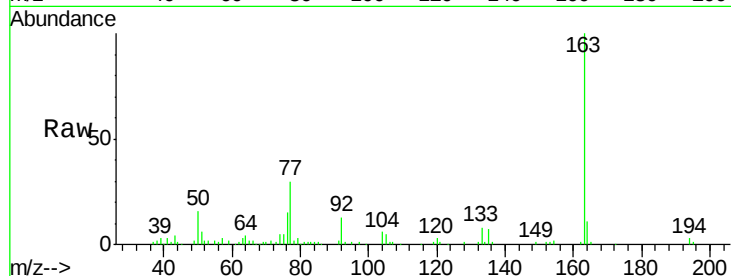
Tgt Ion:163 Resp: 95149

Ion Ratio Lower Upper

163 100

194 3.0 2.6 4.0

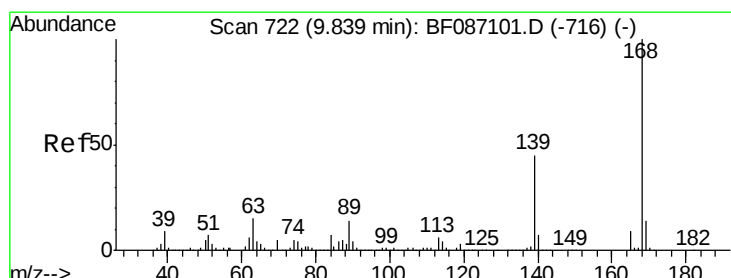
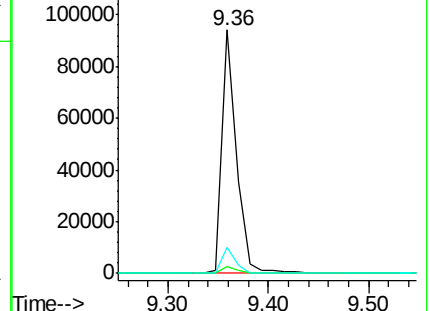
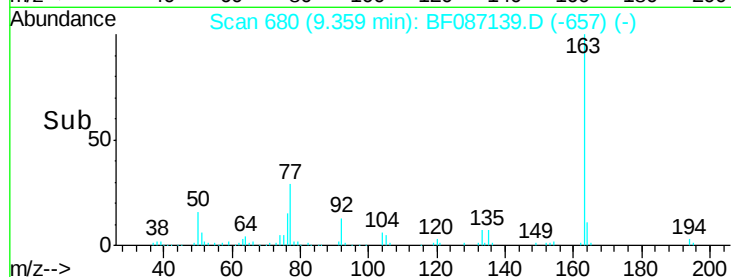
164 10.5 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55

4-Nitrophenol

Concen: 2.44 ng

RT: 9.84 min Scan# 722

Delta R.T. 0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

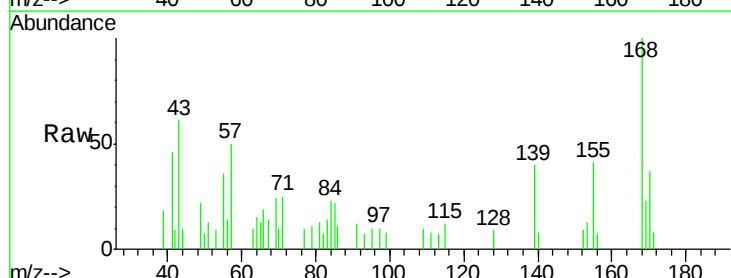
Tgt Ion:139 Resp: 1828

Ion Ratio Lower Upper

139 100

109 24.0 36.9 76.9#

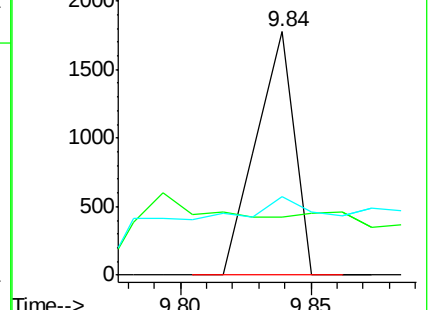
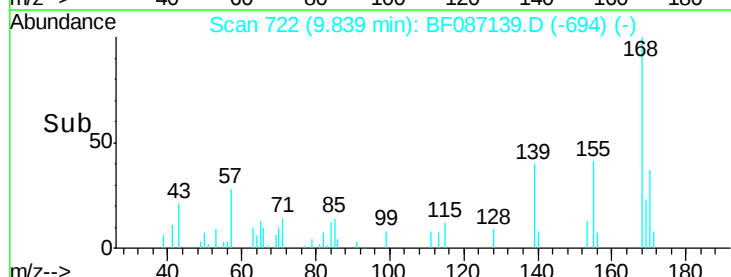
65 32.3 64.0 104.0#

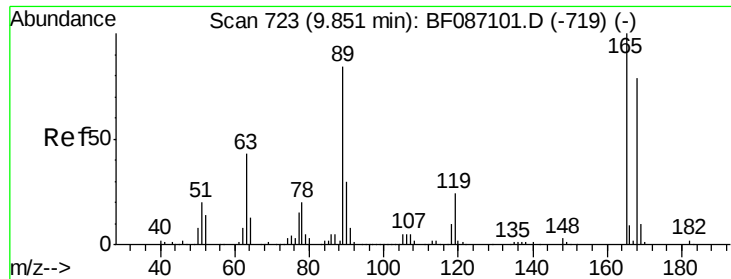


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

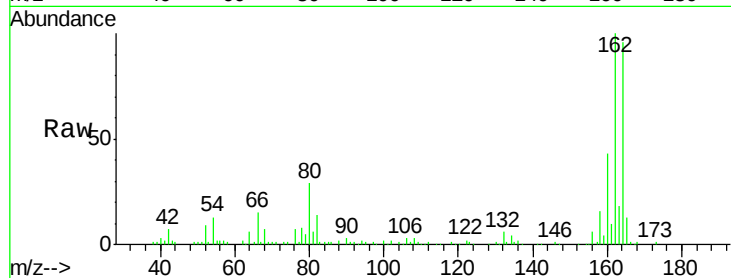




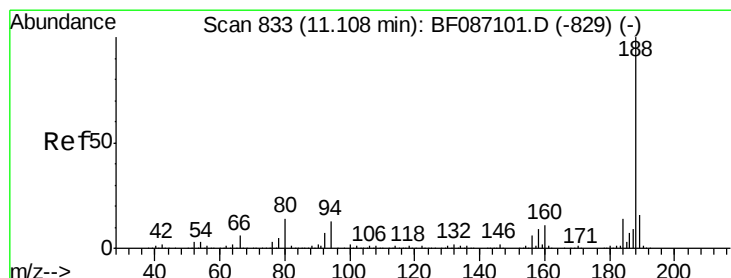
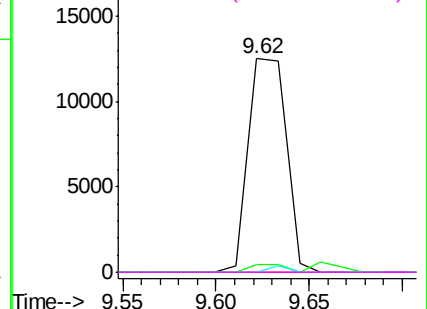
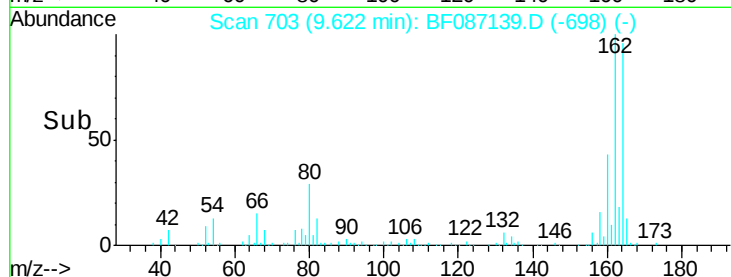
#56
 2,4-Dinitrotoluene
 Concen: 6.05 ng
 RT: 9.62 min Scan# 703
 Delta R.T. -0.24 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

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Tgt Ion	Ratio	Lower	Upper
165	100		
63	3.8	44.3	66.5#
89	0.0	70.0	105.0#
182	0.0	1.8	2.6#

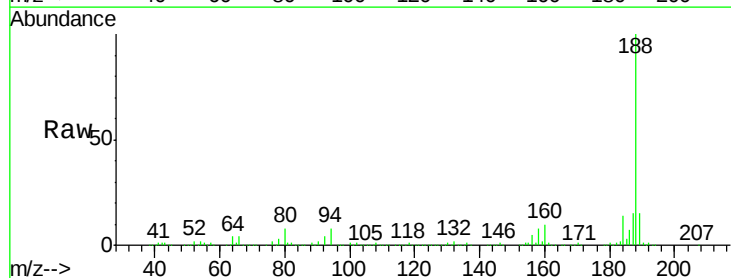


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

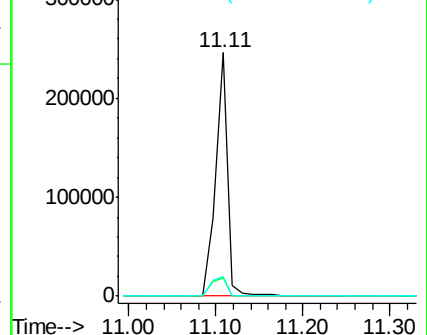
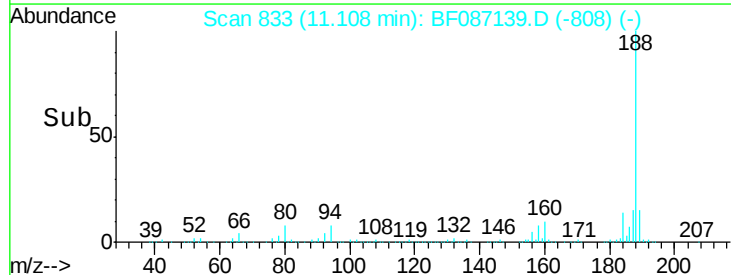


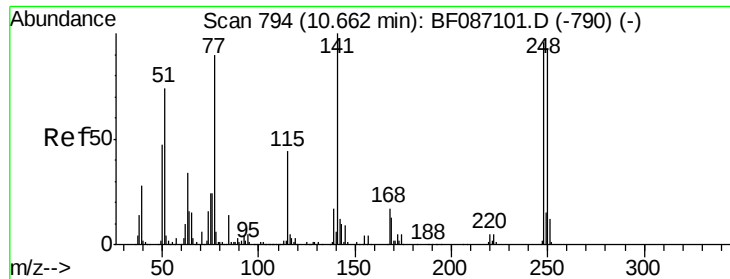
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.11 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.8	10.2
80	8.3	7.1	10.7



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

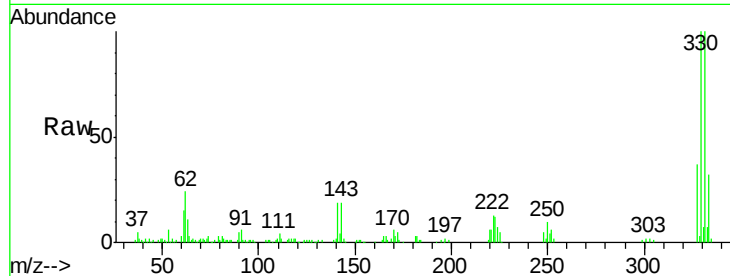




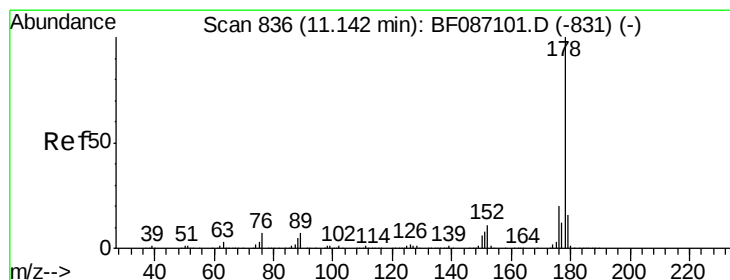
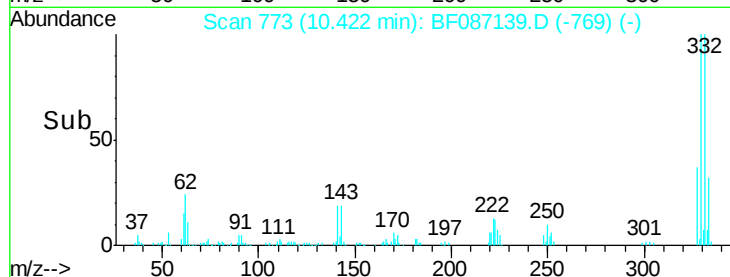
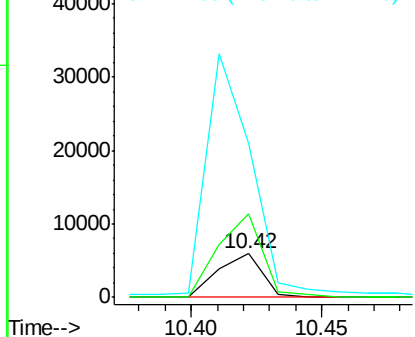
#66
 4-Bromophenyl-phenylether
 Concen: 2.87 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.25 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

Tgt Ion:248 Resp: 6990
 Ion Ratio Lower Upper
 248 100
 250 192.1 78.6 117.8#
 141 355.5 76.0 114.0#

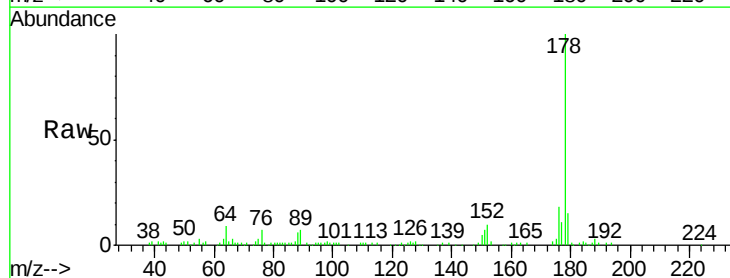


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

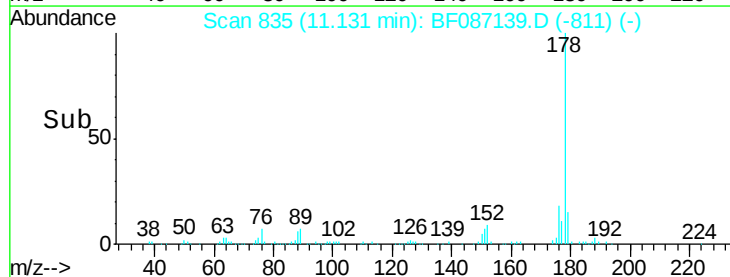
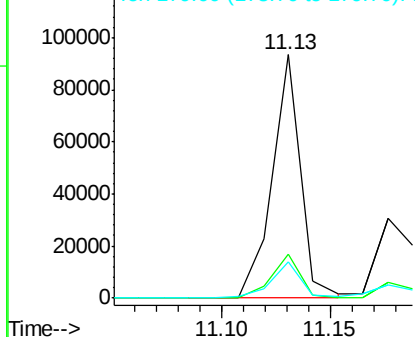


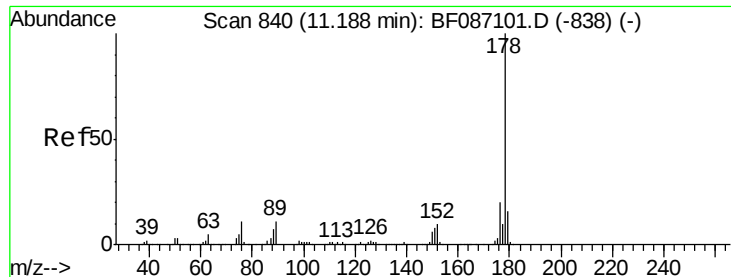
#70
 Phenanthrene
 Concen: 6.66 ng
 RT: 11.13 min Scan# 835
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion:178 Resp: 85611
 Ion Ratio Lower Upper
 178 100
 176 18.3 16.0 24.0
 179 15.0 12.6 18.8



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

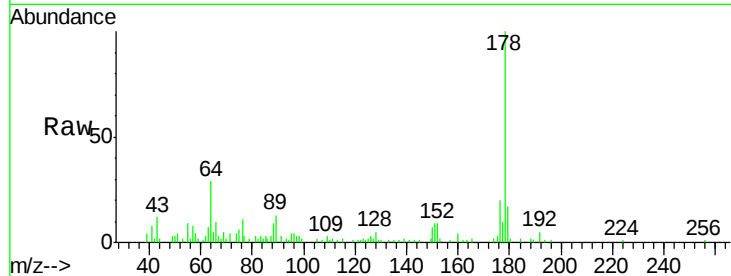




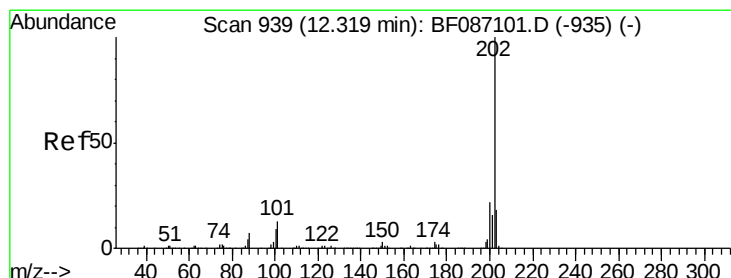
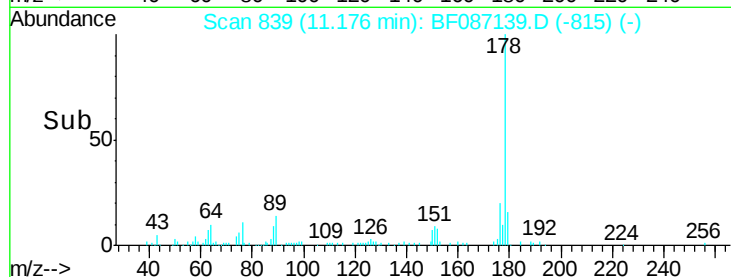
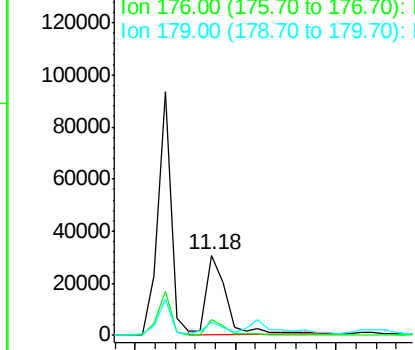
#71
 Anthracene
 Concen: 3.21 ng
 RT: 11.18 min Scan# 839
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

Tgt Ion:178 Resp: 41701
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.6 23.4
 179 16.6 12.7 19.1

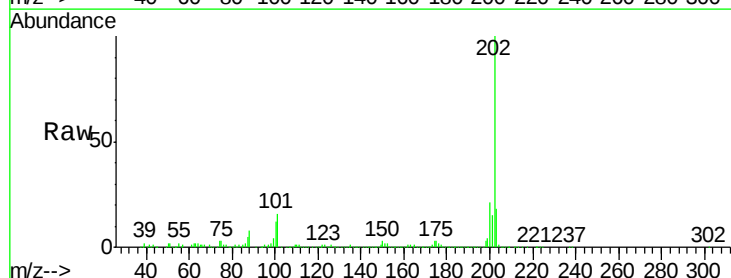


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

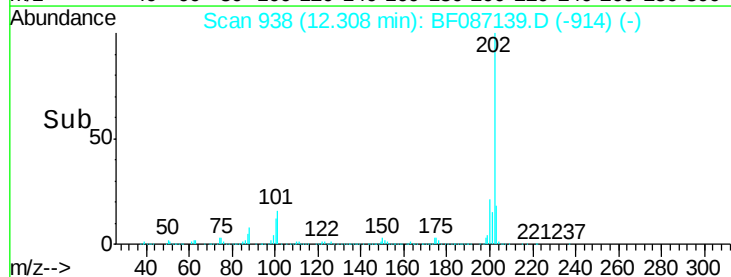
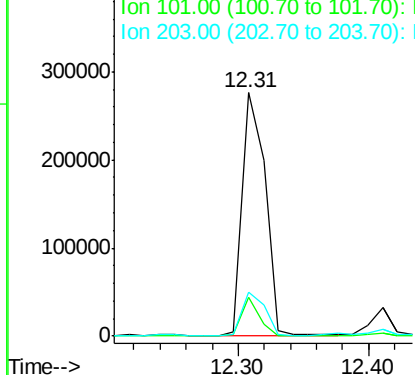


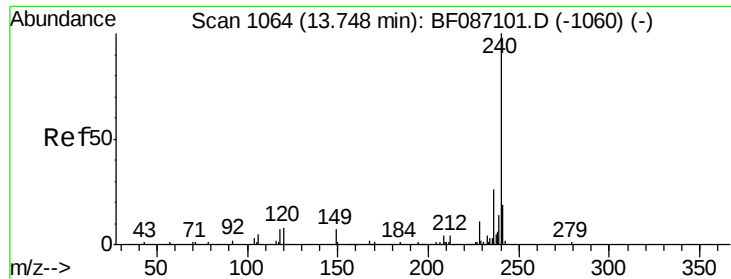
#74
 Fluoranthene
 Concen: 26.13 ng
 RT: 12.31 min Scan# 938
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion:202 Resp: 336672
 Ion Ratio Lower Upper
 202 100
 101 16.0 0.0 35.4
 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: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

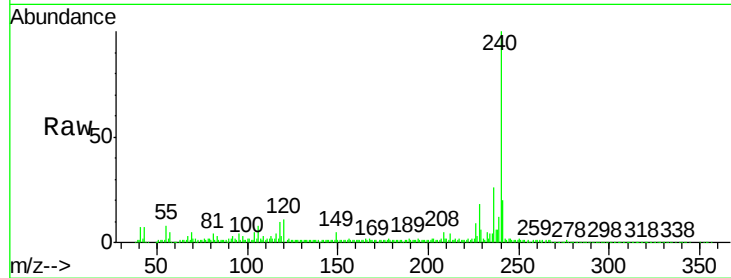
Tgt Ion:240 Resp: 212859

Ion Ratio Lower Upper

240 100

120 11.1 11.2 16.8#

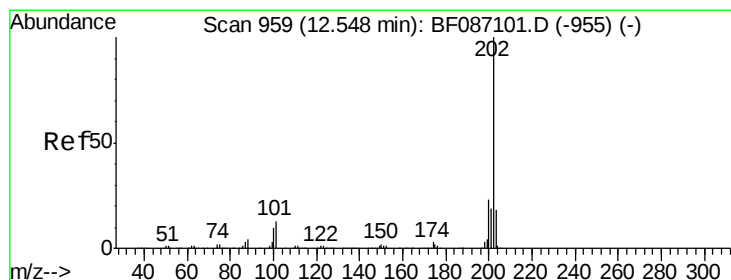
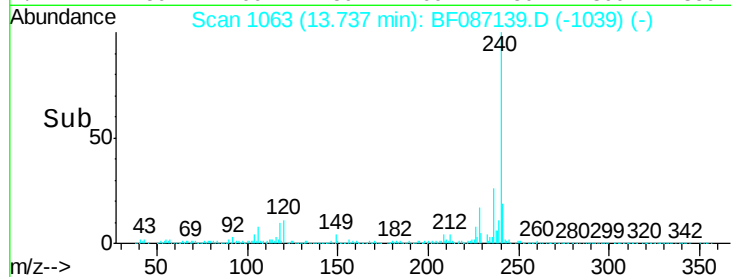
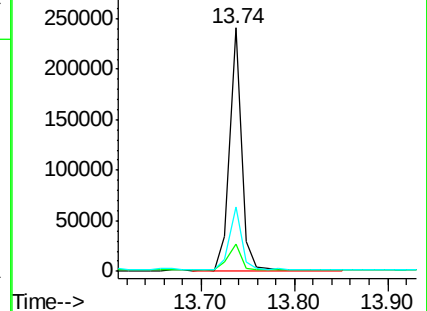
236 26.3 21.2 31.8



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: 18.97 ng

RT: 12.54 min Scan# 958

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

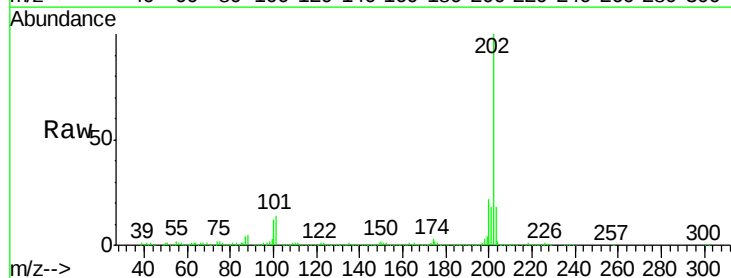
Tgt Ion:202 Resp: 291726

Ion Ratio Lower Upper

202 100

200 21.7 17.7 26.5

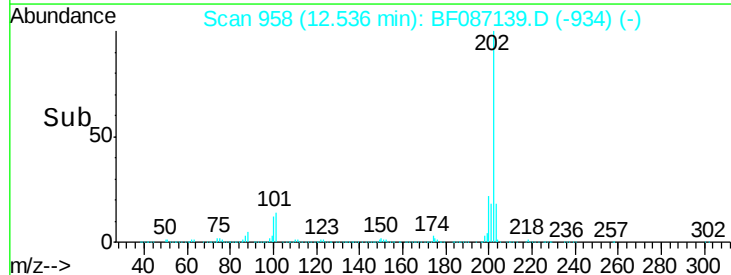
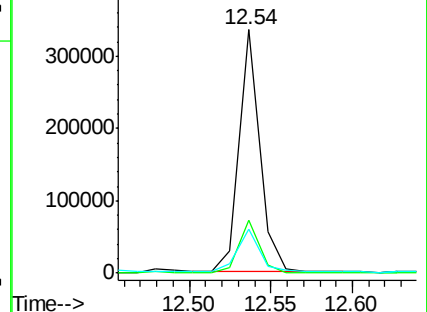
203 18.1 14.2 21.4

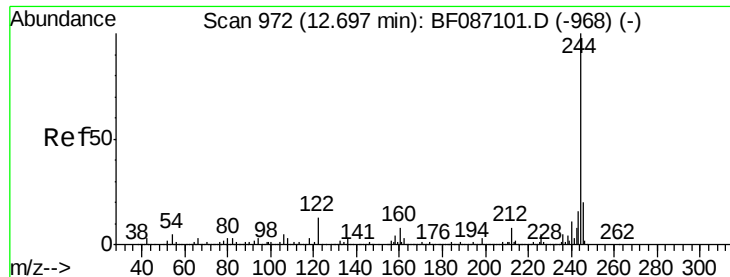


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 46.36 ng

RT: 12.68 min Scan# 971

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

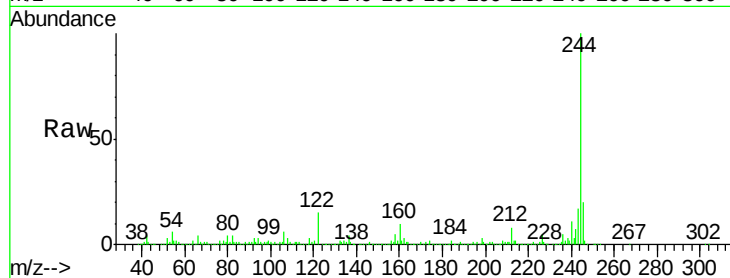
Tgt Ion:244 Resp: 436244

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

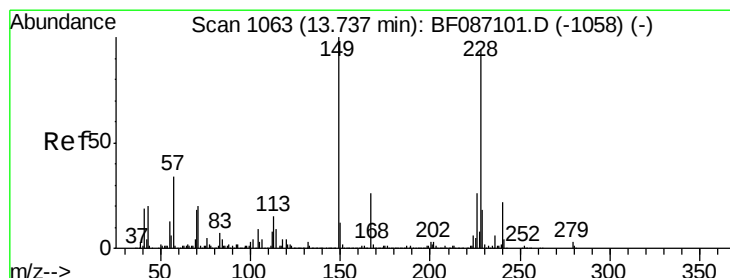
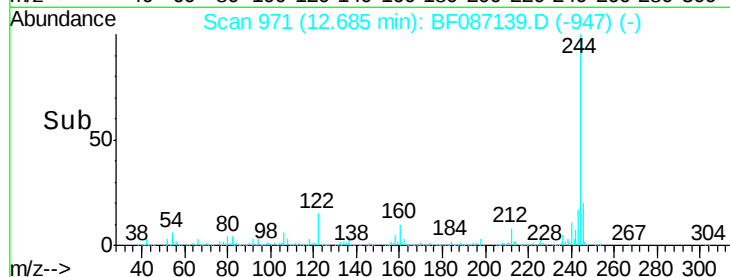
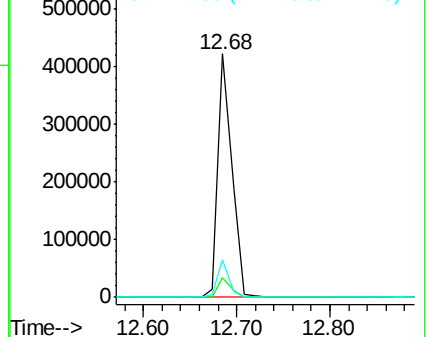
122 15.5 12.0 18.0



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: 15.25 ng

RT: 13.73 min Scan# 1062

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

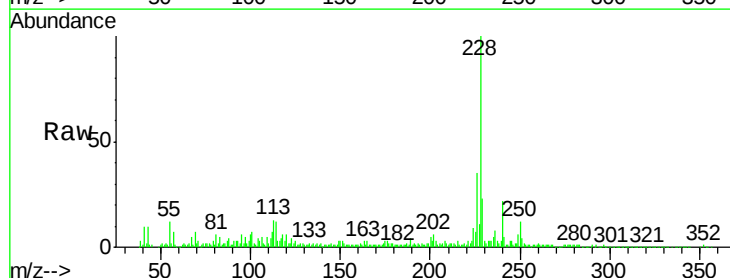
Tgt Ion:228 Resp: 187718

Ion Ratio Lower Upper

228 100

226 35.1 22.5 33.7#

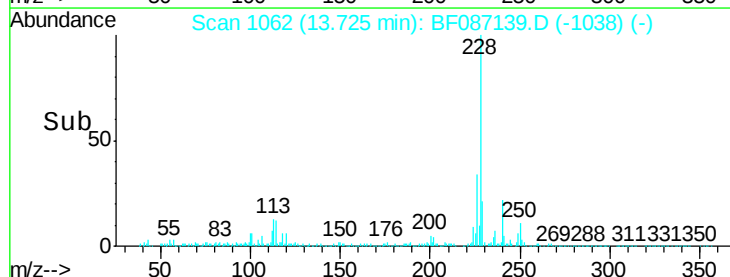
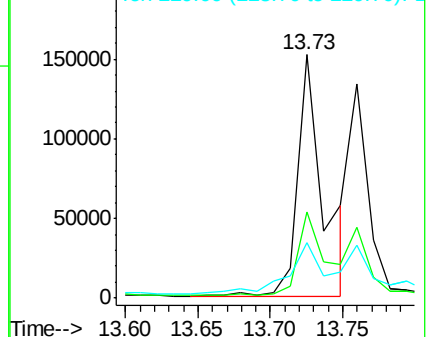
229 22.6 16.6 25.0

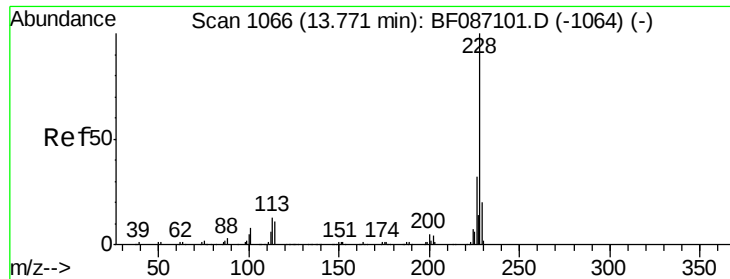


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 15.76 ng

RT: 13.73 min Scan# 1062

Delta R.T. -0.06 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

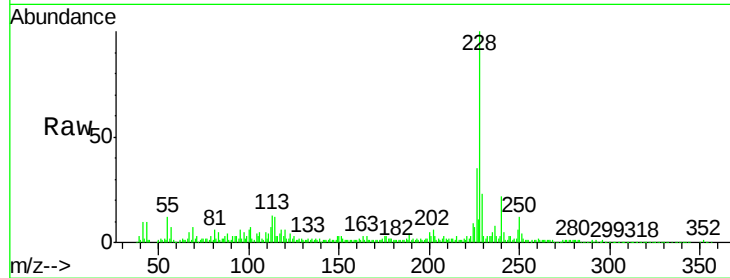
Tgt Ion: 228 Resp: 187718

Ion Ratio Lower Upper

228 100

226 35.1 24.4 36.6

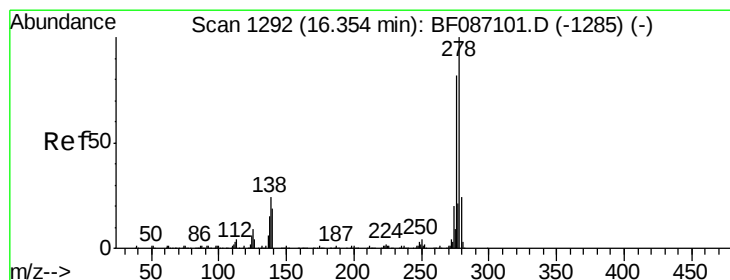
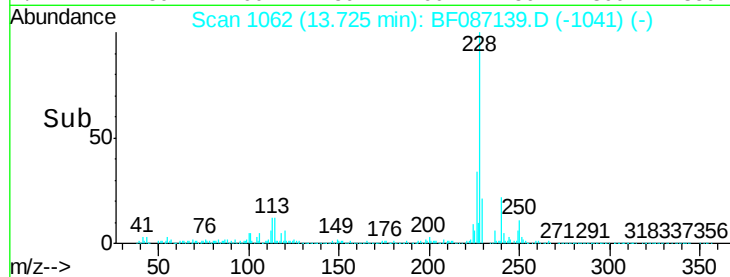
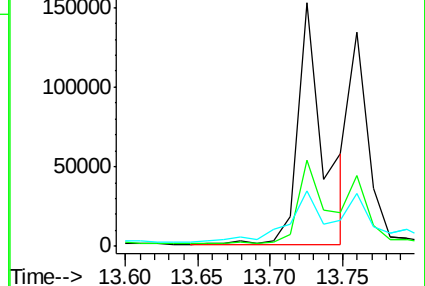
229 22.6 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.17 ng

RT: 16.37 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

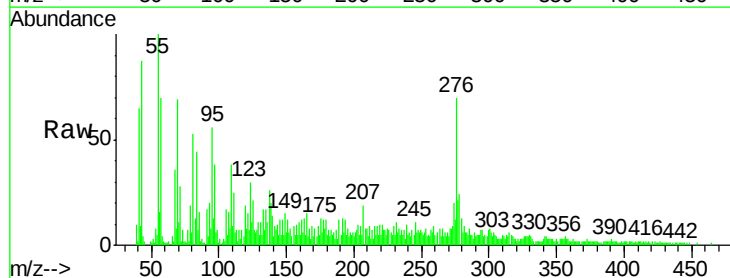
Tgt Ion: 276 Resp: 53987

Ion Ratio Lower Upper

276 100

138 26.0 25.6 38.4

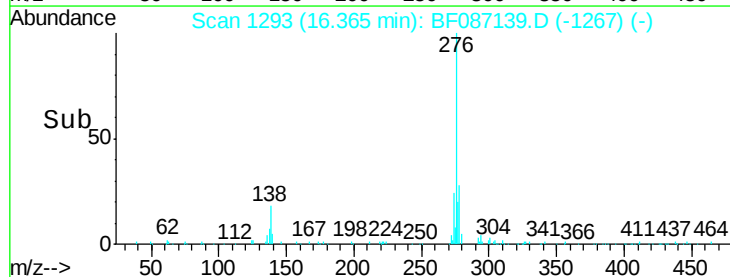
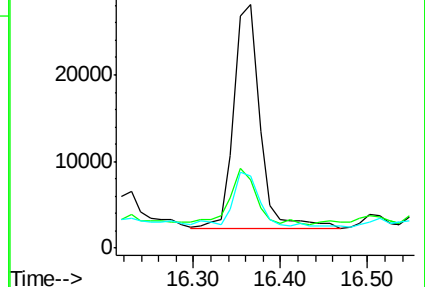
277 23.9 20.5 30.7

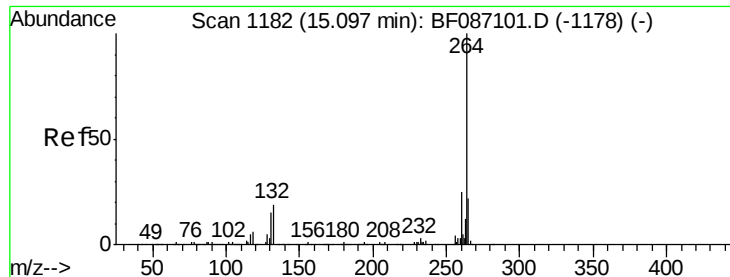


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

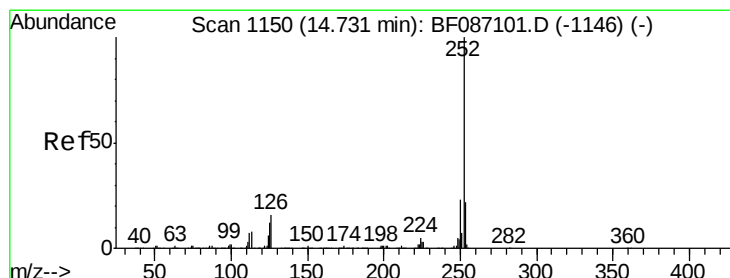
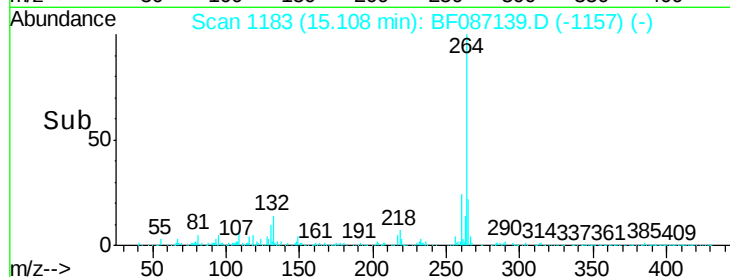
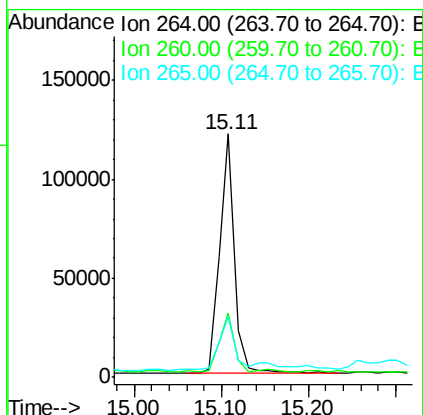
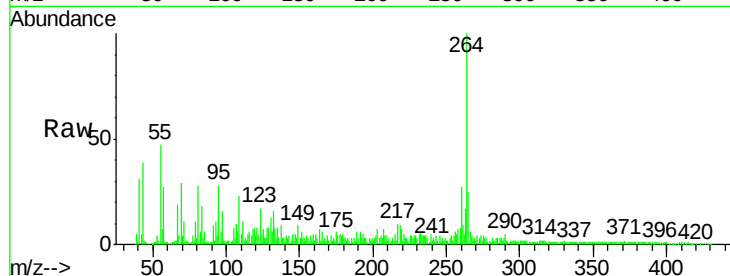




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.11 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

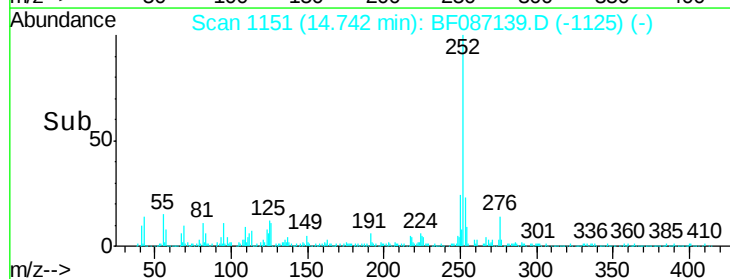
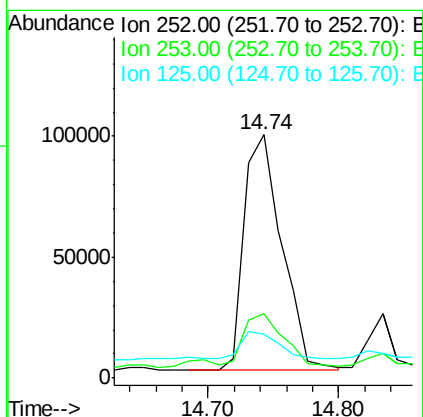
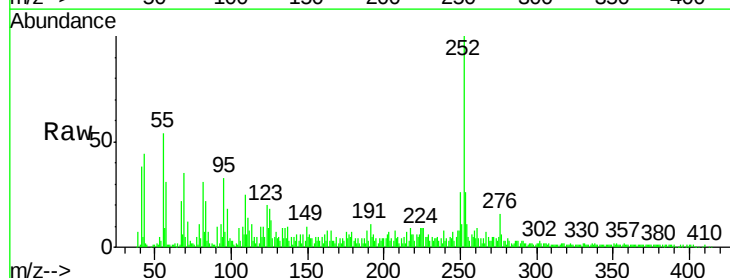
Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

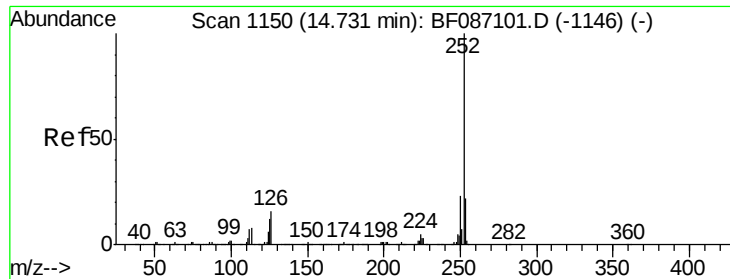
Tgt Ion: 264 Resp: 145324
Ion Ratio Lower Upper
264 100
260 26.5 19.5 29.3
265 25.0 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 20.32 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion: 252 Resp: 195926
Ion Ratio Lower Upper
252 100
253 26.5 17.8 26.6
125 18.2 11.4 17.0#

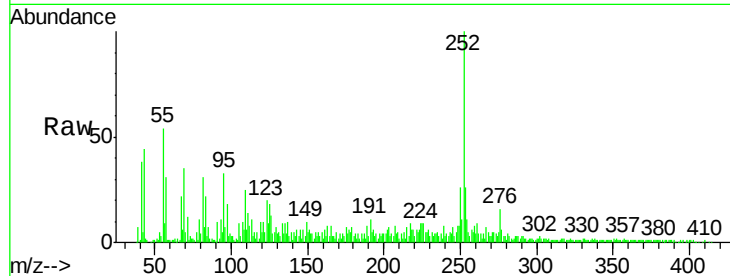




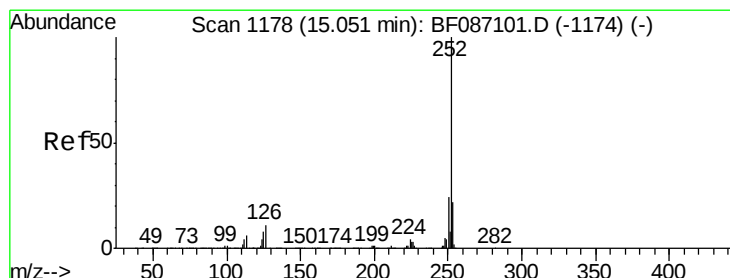
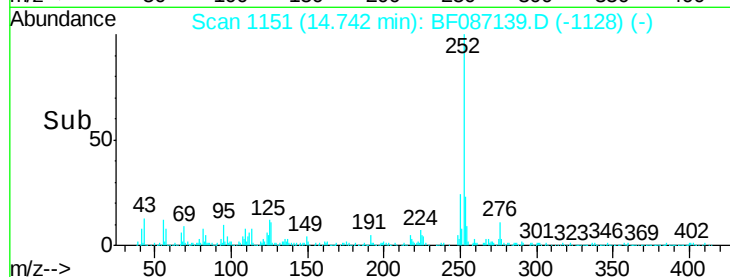
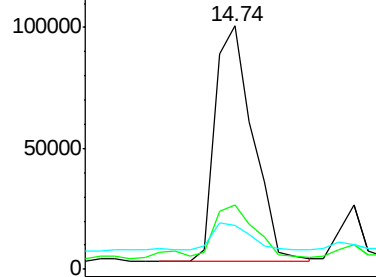
#88
Benzo(k)fluoranthene
Concen: 27.39 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.5	17.8	26.6
125	18.2	9.1	13.7#

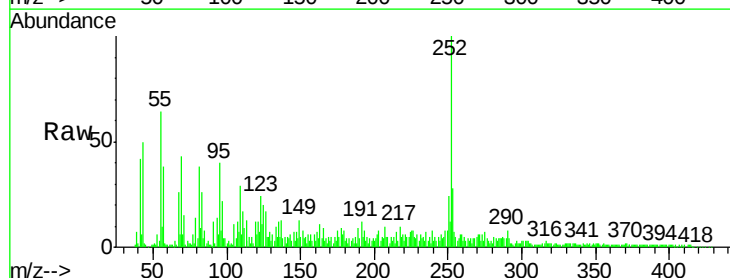


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

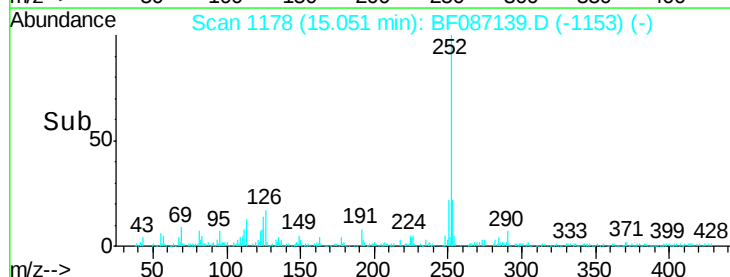
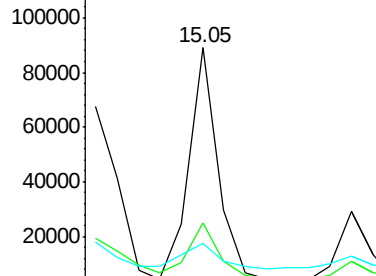


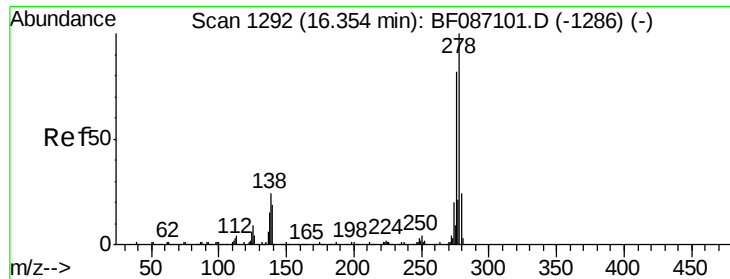
#89
Benzo(a)pyrene
Concen: 11.71 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.3	17.2	25.8#
125	19.6	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





#90

Dibenzo(a,h)anthracene

Concen: 2.55 ng

RT: 16.37 min Scan# 1293

Delta R.T. -0.01 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

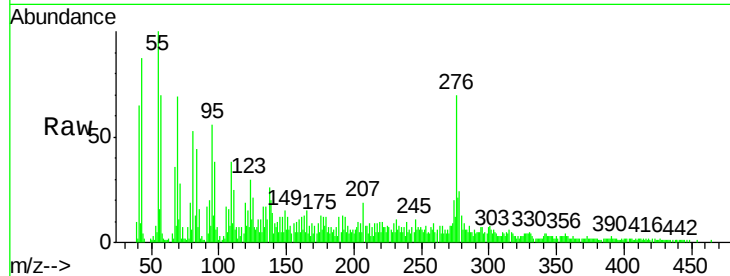
Tgt Ion: 278 Resp: 17268

Ion Ratio Lower Upper

278 100

139 56.7 16.6 24.8#

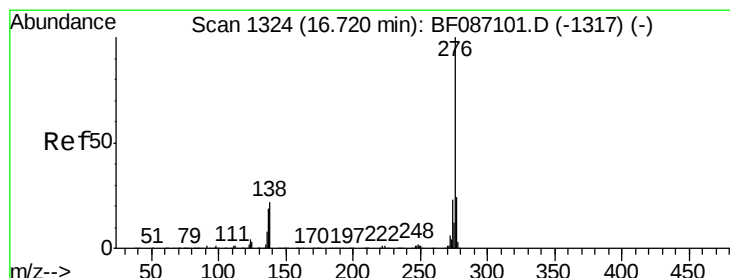
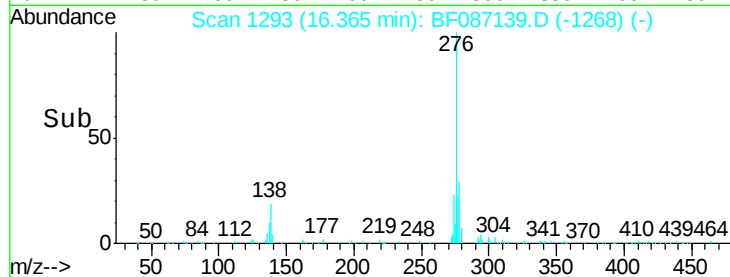
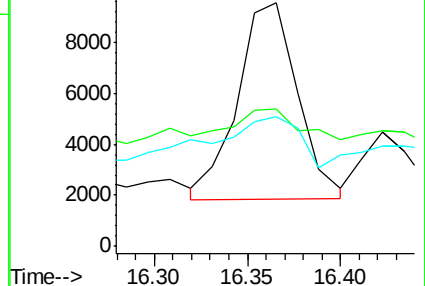
279 53.5 19.6 29.4#



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: 7.19 ng

RT: 16.74 min Scan# 1326

Delta R.T. -0.00 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

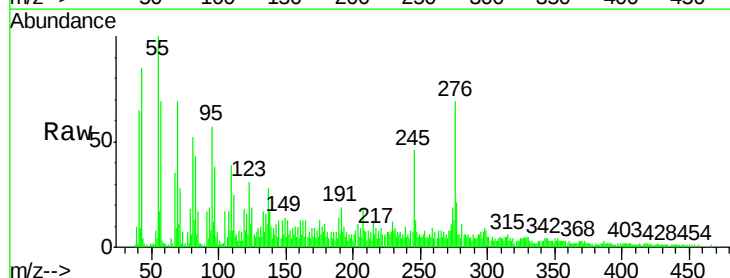
Tgt Ion: 276 Resp: 49248

Ion Ratio Lower Upper

276 100

277 30.5 19.6 29.4#

138 24.9 23.6 35.4



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

