

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
 Data File : BF089056.D
 Acq On : 16 Jul 2016 15:40
 Operator : UM/SJ
 Sample : H3989-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 18 01:14:33 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

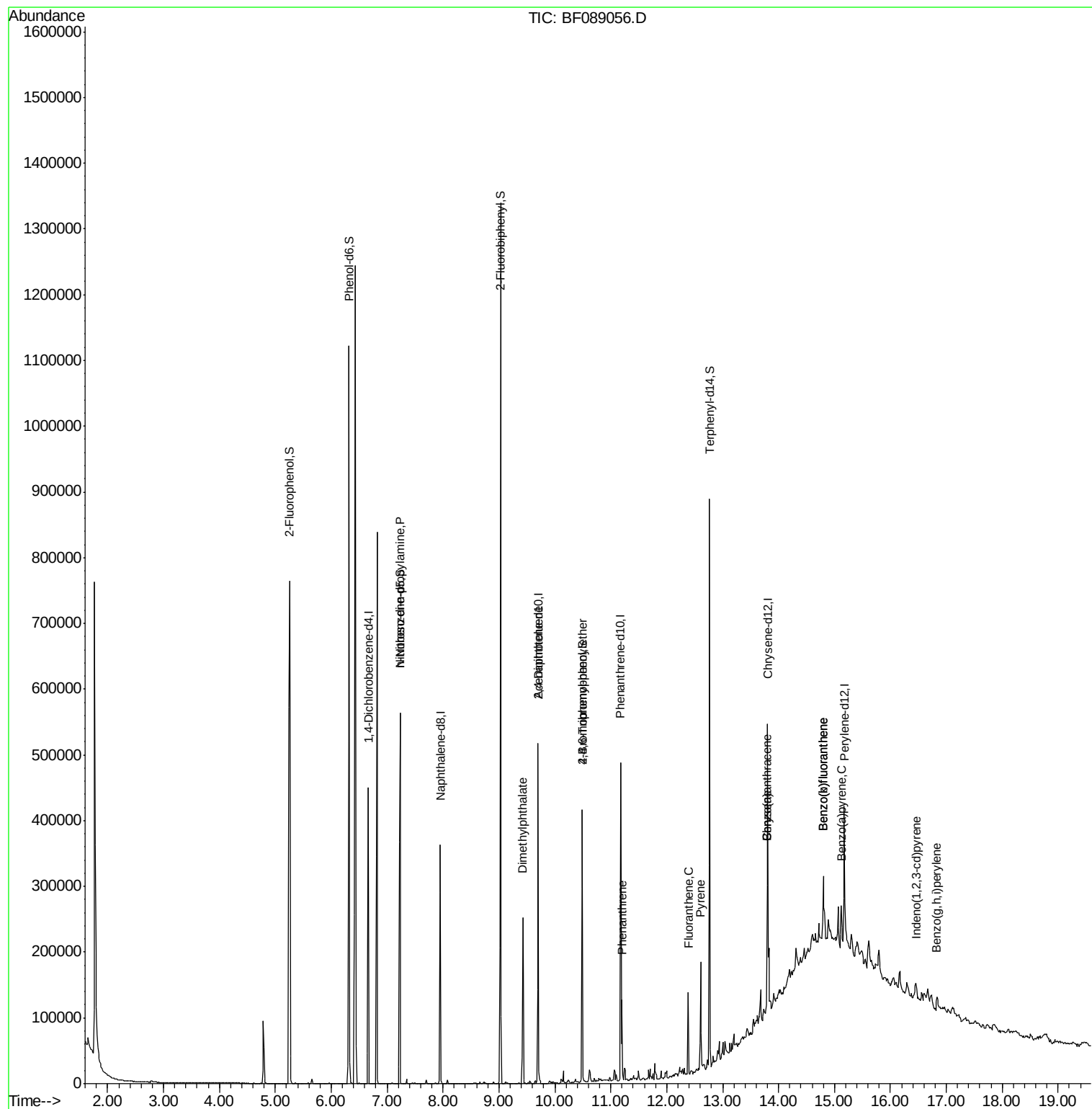
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	60118	20.00	ng	-0.05
21) Naphthalene-d8	7.95	136	224775	20.00	ng	-0.05
38) Acenaphthene-d10	9.70	164	98587	20.00	ng	-0.05
63) Phenanthrene-d10	11.18	188	152363	20.00	ng	-0.05
75) Chrysene-d12	13.81	240	114689	20.00	ng	-0.05
86) Perylene-d12	15.18	264	88071	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	277086	69.08	ng	-0.03
7) Phenol-d6	6.32	99	408950	78.90	ng	-0.03
23) Nitrobenzene-d5	7.23	82	235128	54.82	ng	-0.05
41) 2,4,6-Tribromophenol	10.49	330	55111	60.20	ng	-0.05
44) 2-Fluorobiphenyl	9.03	172	370966	59.44	ng	-0.05
78) Terphenyl-d14	12.77	244	253985	49.33	ng	-0.03
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.23	70	31254	8.98	ng	Qvalue # 67
49) Dimethylphthalate	9.43	163	92807	13.21	ng	98
56) 2,4-Dinitrotoluene	9.70	165	12509	6.15	ng	# 36
66) 4-Bromophenyl-phenylether	10.49	248	4176	2.72	ng	# 1
70) Phenanthrene	11.20	178	39802	4.78	ng	99
74) Fluoranthene	12.39	202	71863	8.51	ng	94
77) Pyrene	12.61	202	65818	6.77	ng	97
80) Benzo(a)anthracene	13.79	228	42200	5.71	ng	97
82) Chrysene	13.79	228	42200	5.78	ng	97
85) Indeno(1,2,3-cd)pyrene	16.46	276	16220	2.89	ng	# 100
87) Benzo(b)fluoranthene	14.80	252	53107	9.61	ng	# 85
88) Benzo(k)fluoranthene	14.80	252	53005	11.02	ng	# 91
89) Benzo(a)pyrene	15.12	252	24984	5.34	ng	93
91) Benzo(a,h,i)perylene	16.83	276	15946	3.95	ng	94

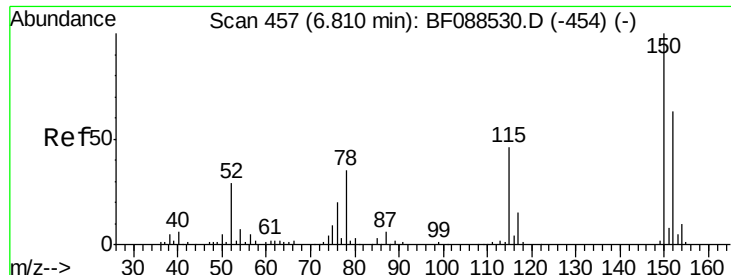
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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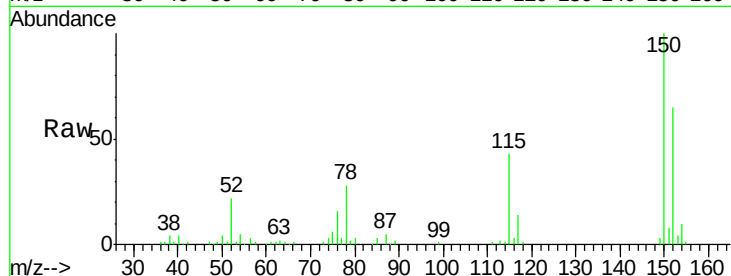


#1

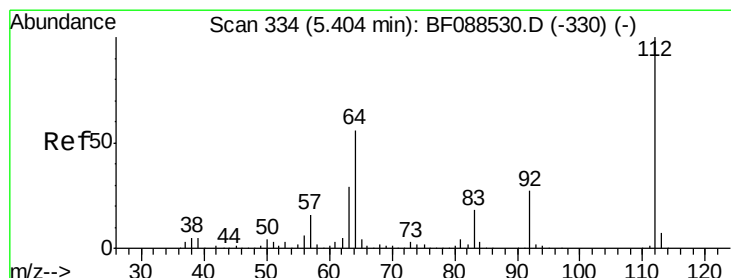
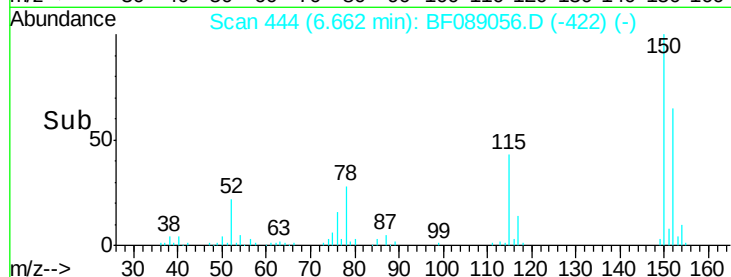
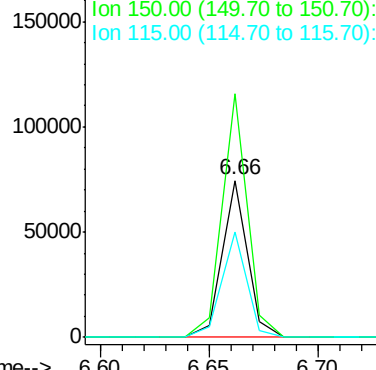
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.66 min Scan# 444
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 60118
Ion Ratio Lower Upper
152 100
150 155.0 123.8 185.6
115 67.3 39.6 59.4#



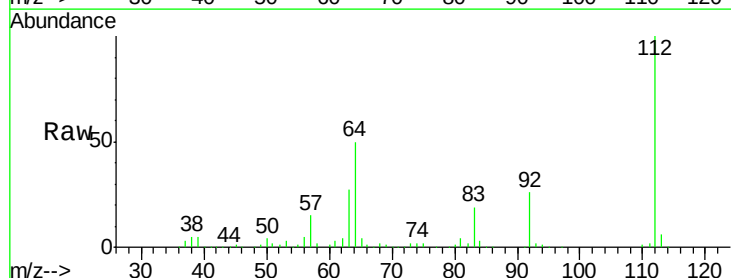
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



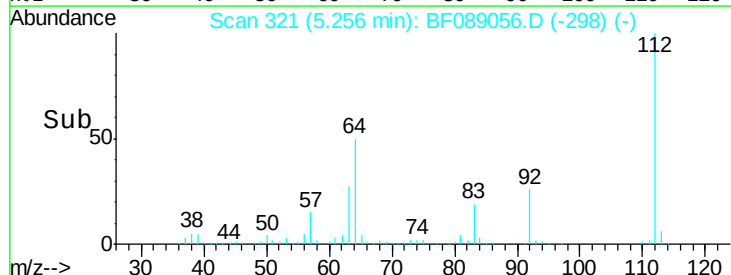
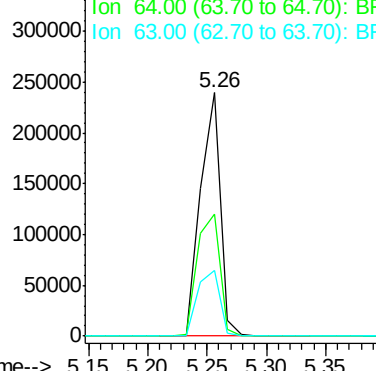
#5

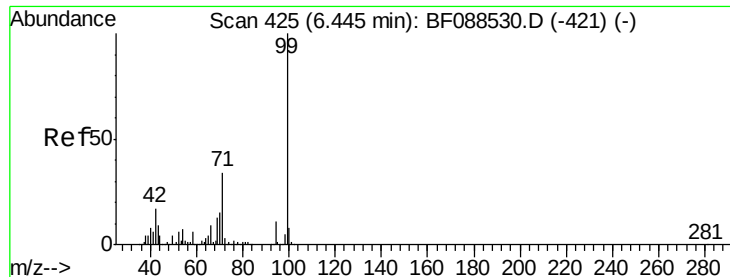
2-Fluorophenol
Concen: 69.08 ng
RT: 5.26 min Scan# 321
Delta R.T. -0.03 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Tgt Ion:112 Resp: 277086
Ion Ratio Lower Upper
112 100
64 50.0 42.2 63.2
63 27.0 21.8 32.8



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: 78.90 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA_F

ClientSampleId :

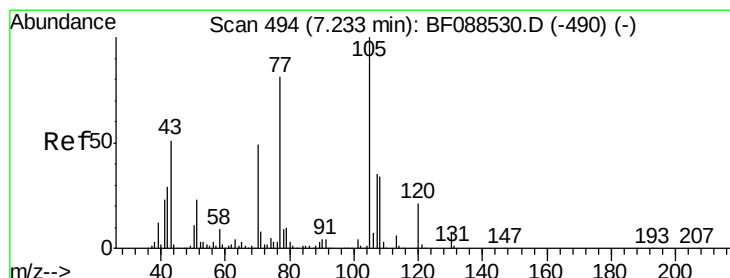
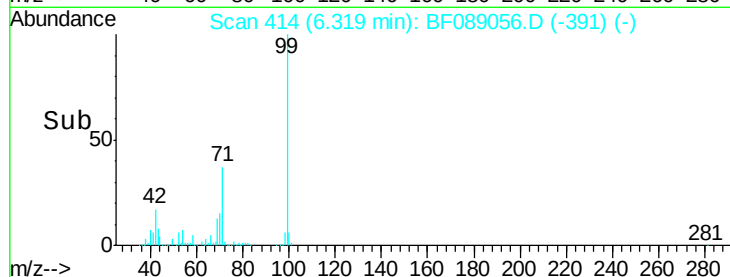
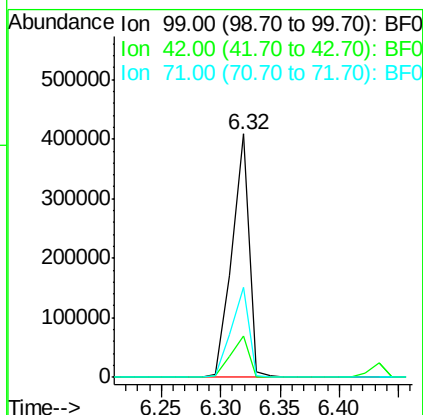
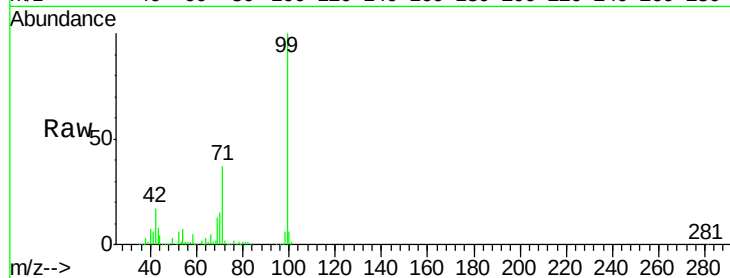
Tot Ion: 99 Resp: 408950

Ion Ratio Lower Upper

99 100

42 17.1 12.2 18.2

71 37.0 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 8.98 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Tgt Ion: 70 Resp: 31254

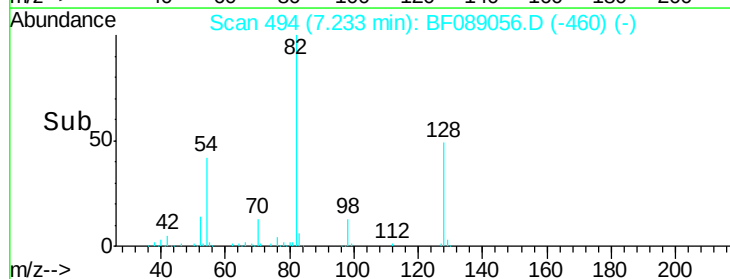
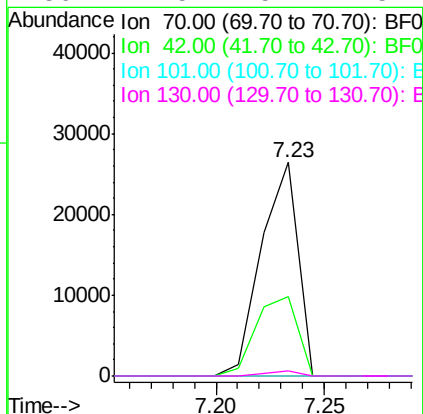
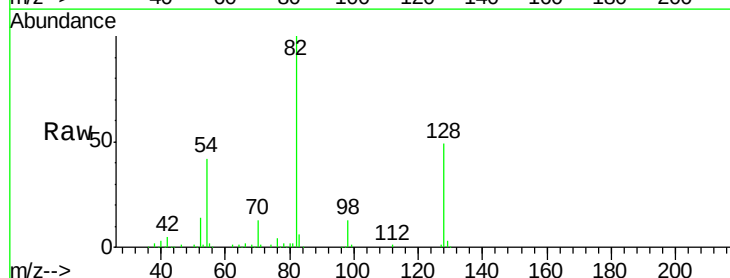
Ion Ratio Lower Upper

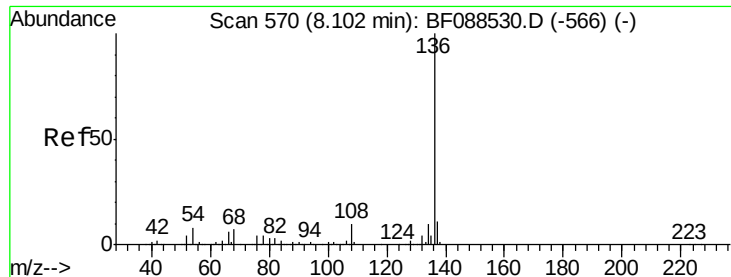
70 100

42 36.9 49.6 74.4#

101 0.0 7.1 10.7#

130 2.5 15.4 23.2#

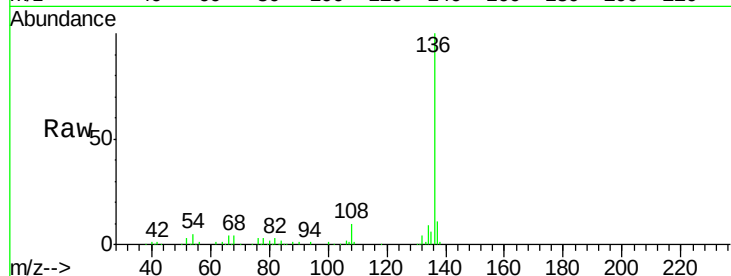




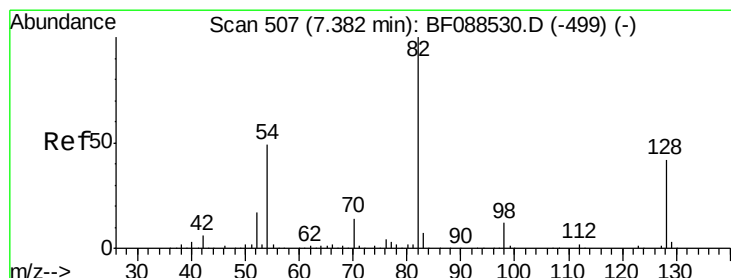
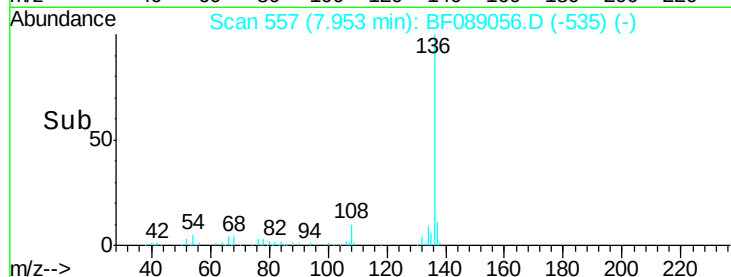
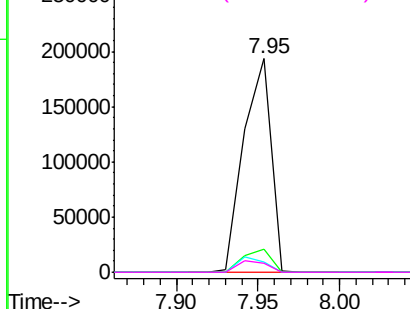
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.95 min Scan# 557
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	224775
Ion Ratio	Lower	Upper
136	100	
137	10.6	9.1 13.7
54	4.9	6.6 10.0#
68	4.1	5.1 7.7#

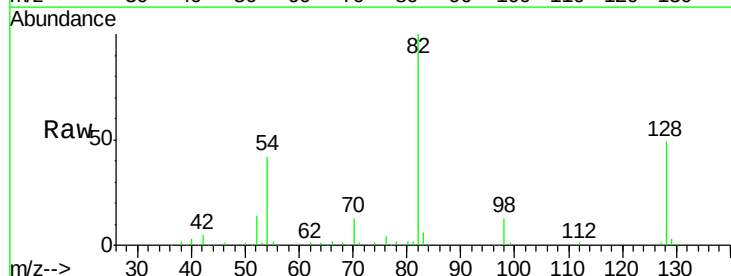


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

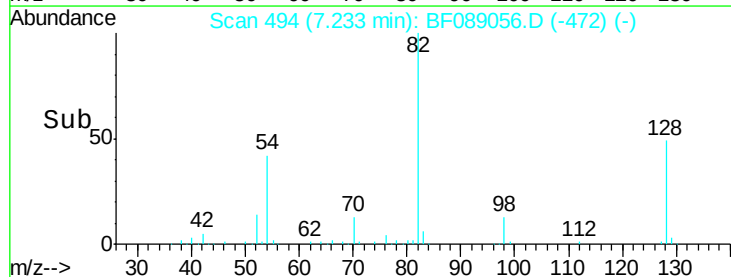
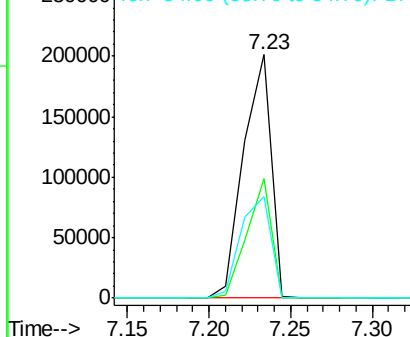


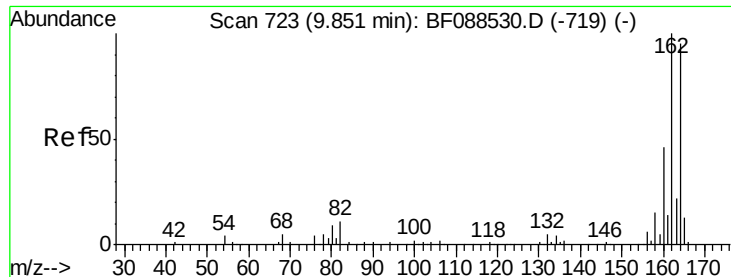
#23
Nitrobenzene-d5
Concen: 54.82 ng
RT: 7.23 min Scan# 494
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Tgt Ion: 82	Resp:	235128
Ion Ratio	Lower	Upper
82	100	
128	49.3	35.9 53.9
54	41.7	40.9 61.3



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

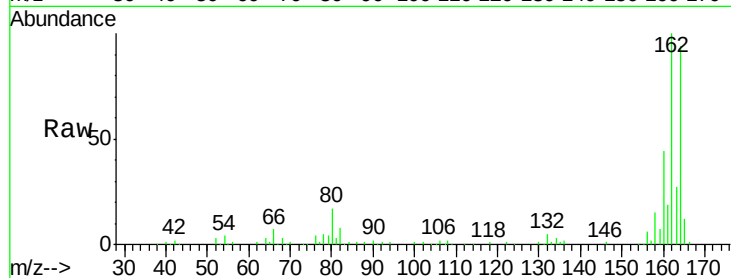
Instrument :

BNA_F

ClientSampleId :

Tot Ion:164 Resp: 98587

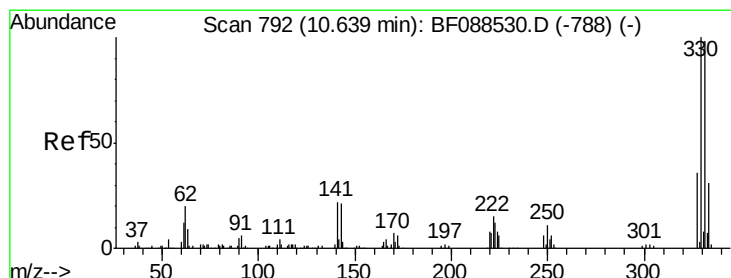
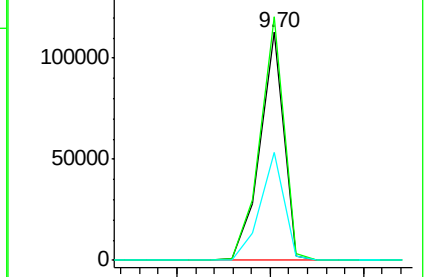
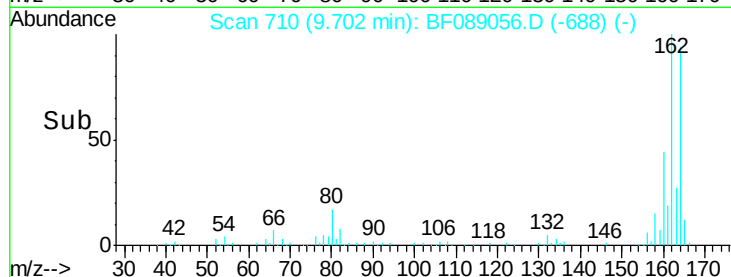
Ion	Ratio	Lower	Upper
164	100		
162	106.8	85.4	128.2
160	47.4	39.5	59.3



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: 60.20 ng

RT: 10.49 min Scan# 779

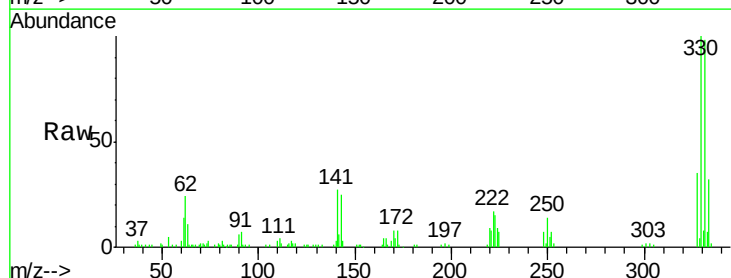
Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Tgt Ion:330 Resp: 55111

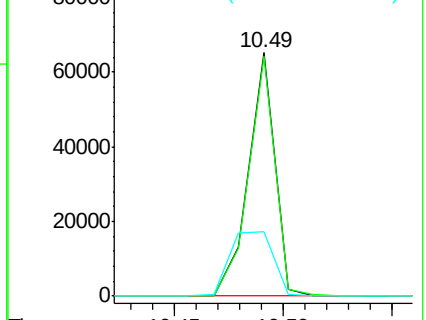
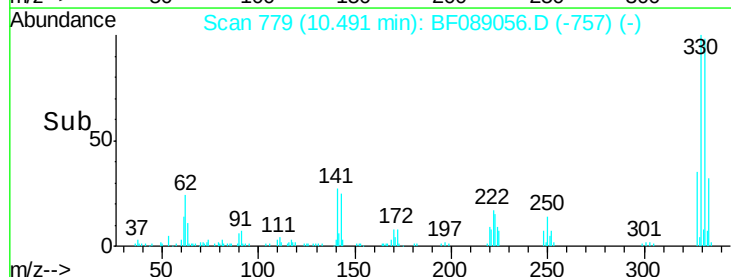
Ion	Ratio	Lower	Upper
330	100		
332	98.5	0.0	0.0#
141	43.5	0.0	0.0#

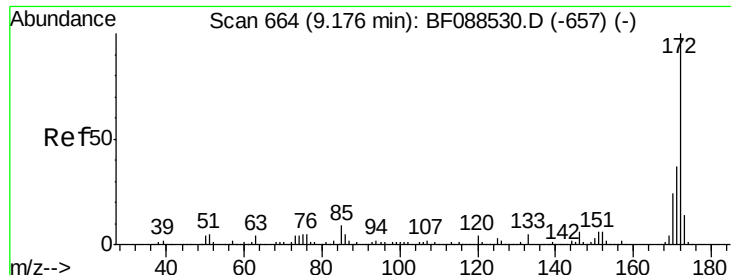


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

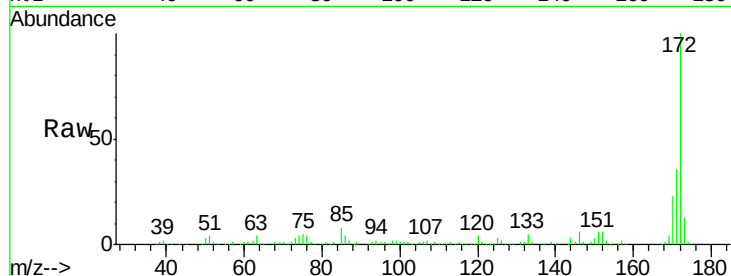




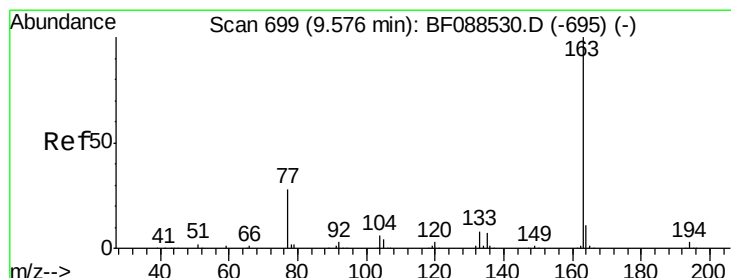
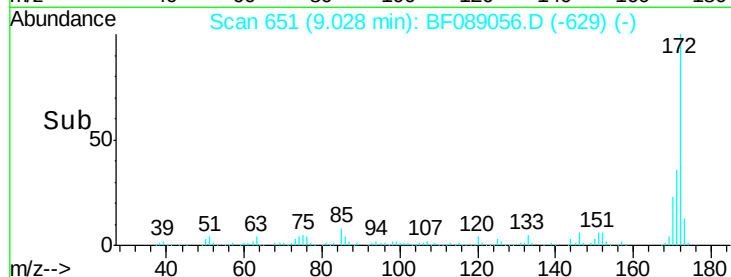
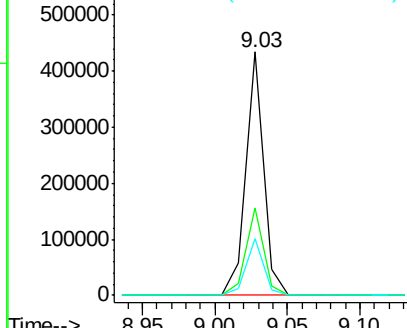
#44
2-Fluorobiphenyl
Concen: 59.44 ng
RT: 9.03 min Scan# 651
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 370966
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 23.4 19.2 28.8

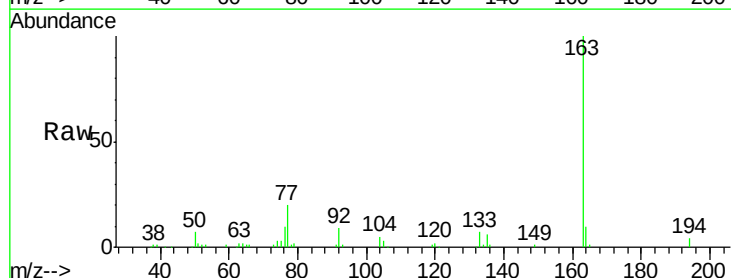


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

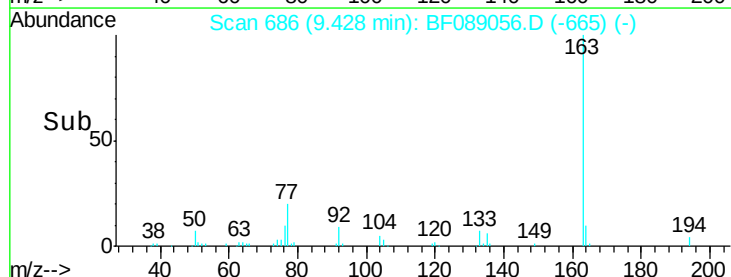
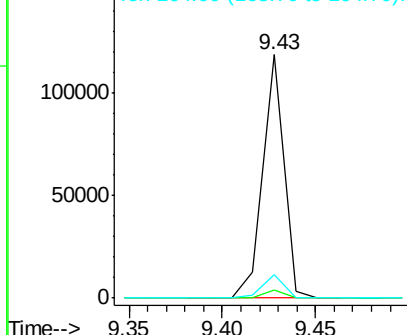


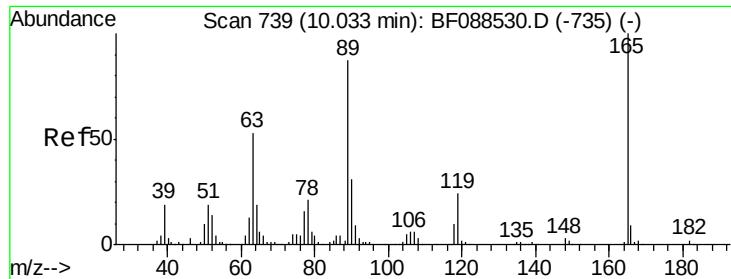
#49
Dimethylphthalate
Concen: 13.21 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.06 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Tgt Ion:163 Resp: 92807
Ion Ratio Lower Upper
163 100
194 3.5 2.8 4.2
164 9.6 8.3 12.5



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

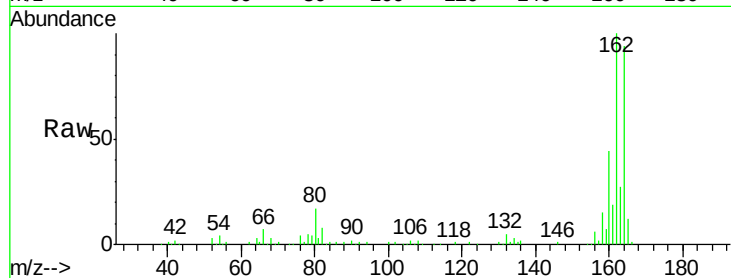




#56
2,4-Dinitrotoluene
Concen: 6.15 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.24 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	165	Resp:	12509
Ion	Ratio	Lower	Upper
165	100		
63	0.0	22.0	33.0#
89	0.0	41.1	61.7#
182	0.0	2.0	3.0#

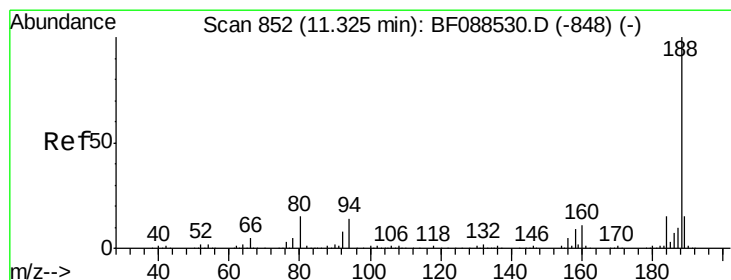
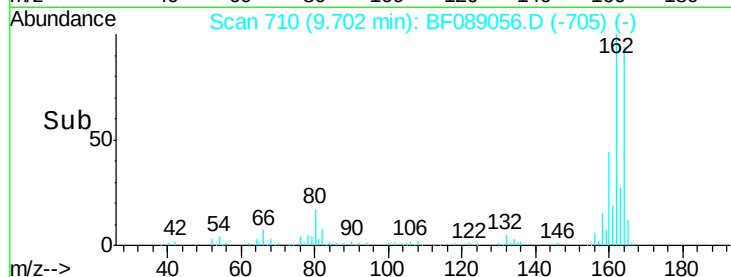
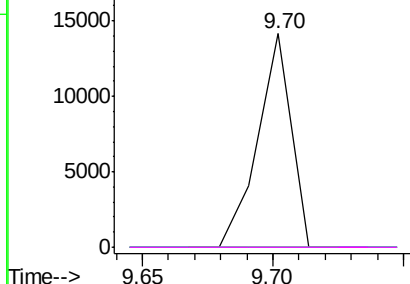


Abundance Ion 165.00 (164.70 to 165.70): E

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



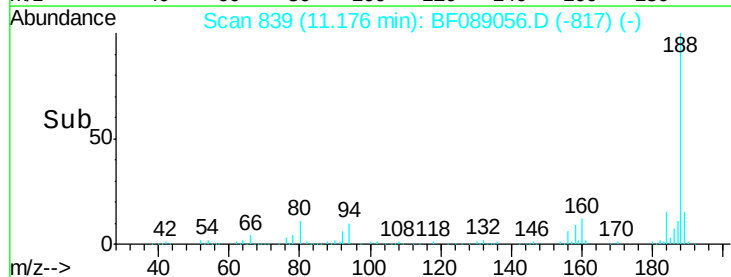
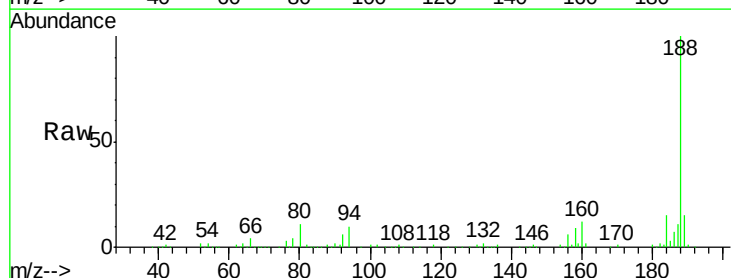
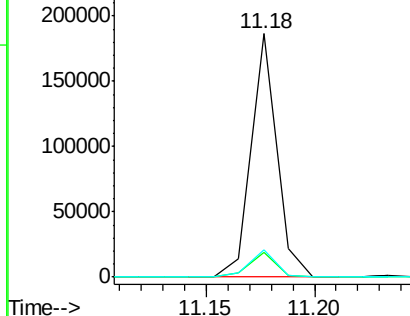
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

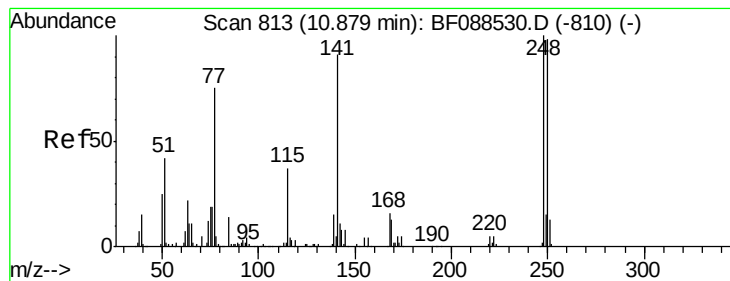
Tgt Ion:	188	Resp:	152363
Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.0	13.6
80	11.4	10.0	15.0

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: 2.72 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.29 min

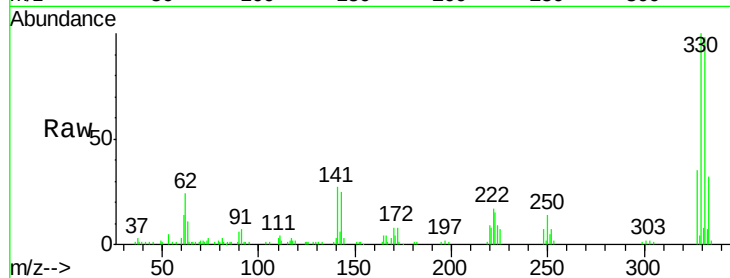
Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA_F

ClientSampled :



Tot Ion:248 Resp: 4176

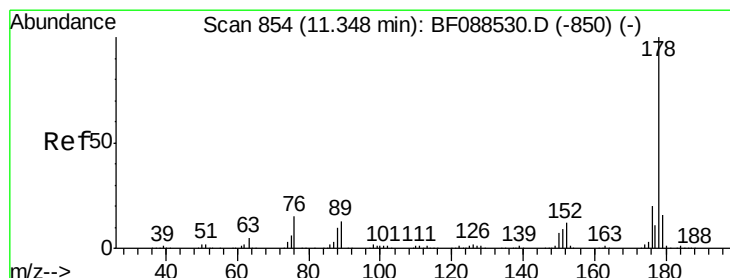
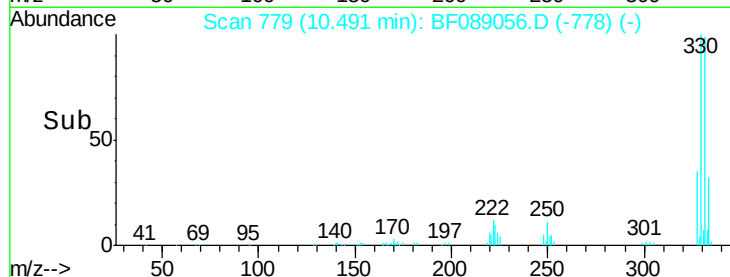
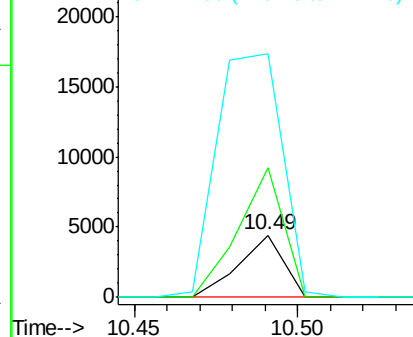
Ion Ratio Lower Upper

248 100

250 207.8 77.1 115.7#

141 391.5 50.6 76.0#

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: 4.78 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Tgt Ion:178 Resp: 39802

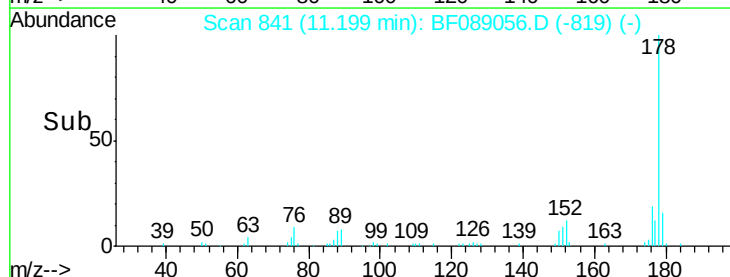
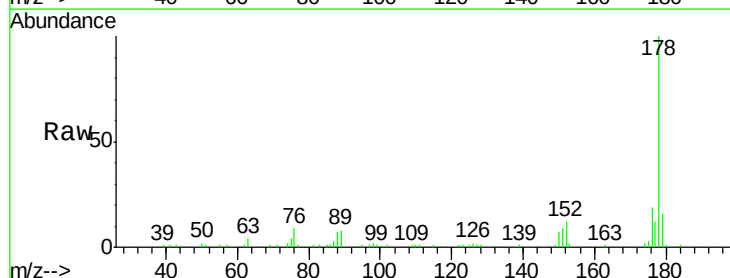
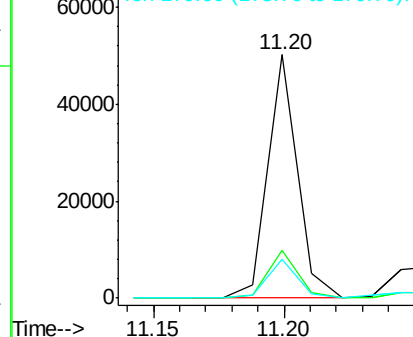
Ion Ratio Lower Upper

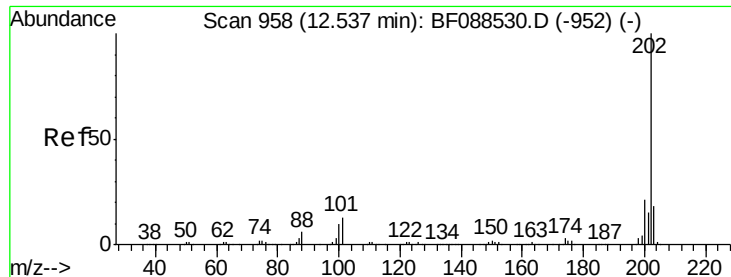
178 100

176 19.5 15.8 23.6

179 15.9 13.0 19.4

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: 8.51 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA_F

ClientSampleId :

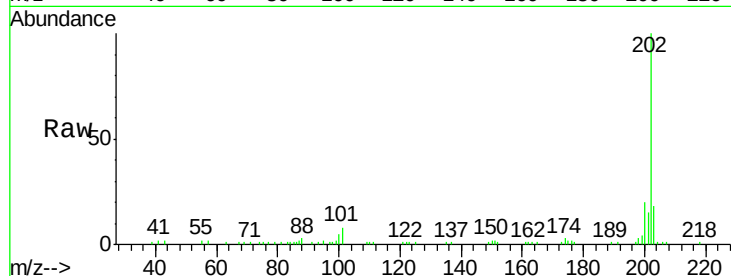
Tot Ion:202 Resp: 71863

Ion Ratio Lower Upper

202 100

101 7.6 0.0 33.1

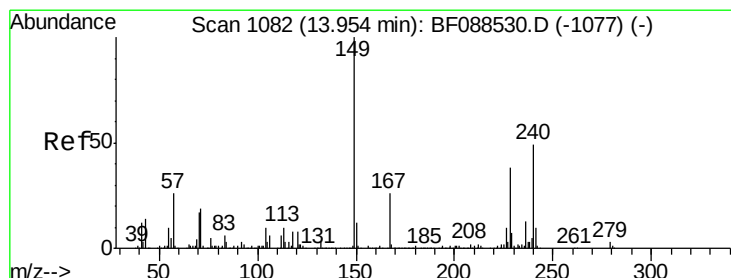
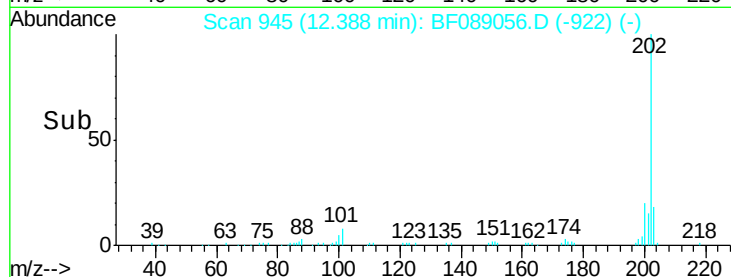
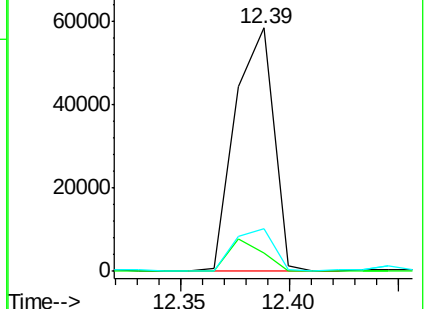
203 17.7 0.0 38.1



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: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

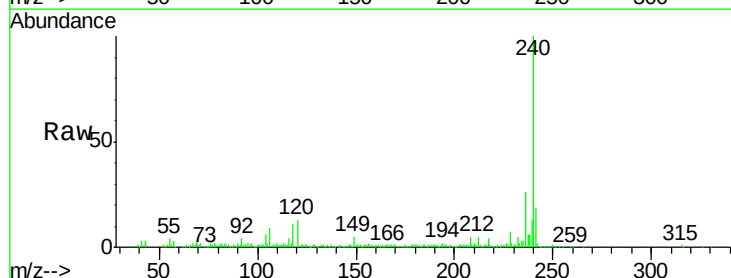
Tgt Ion:240 Resp: 114689

Ion Ratio Lower Upper

240 100

120 12.5 6.8 10.2#

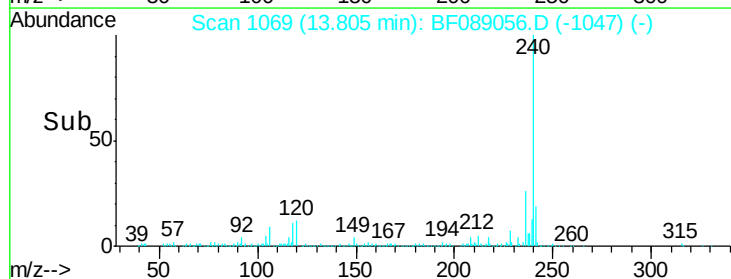
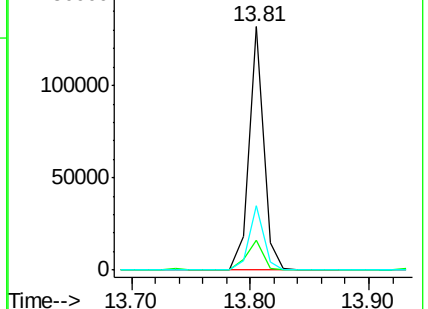
236 26.2 20.2 30.2

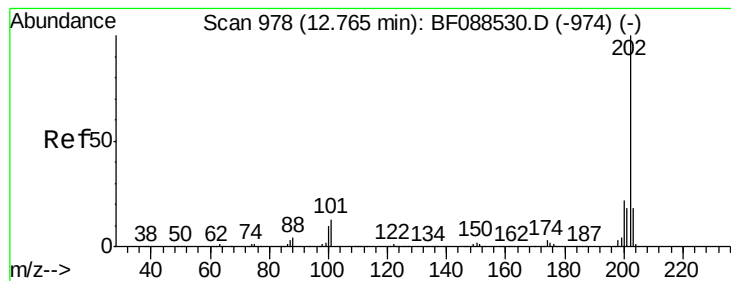


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 6.77 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA_F

ClientSampleId :

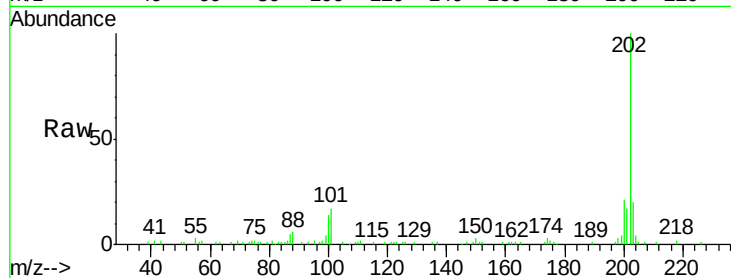
Tot Ion:202 Resp: 65818

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

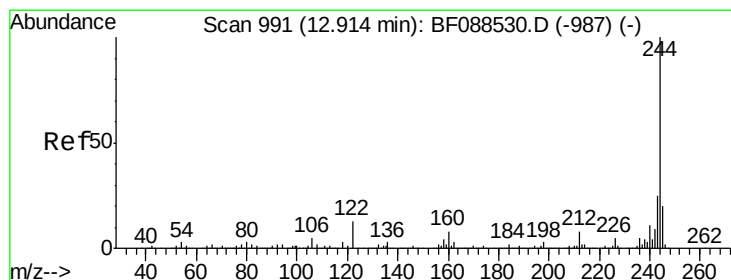
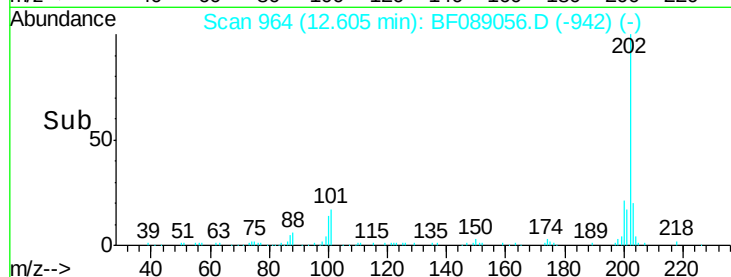
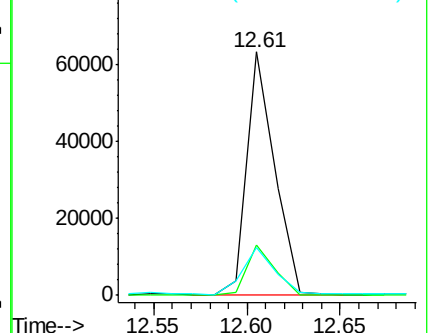
203 19.5 14.5 21.7



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: 49.33 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

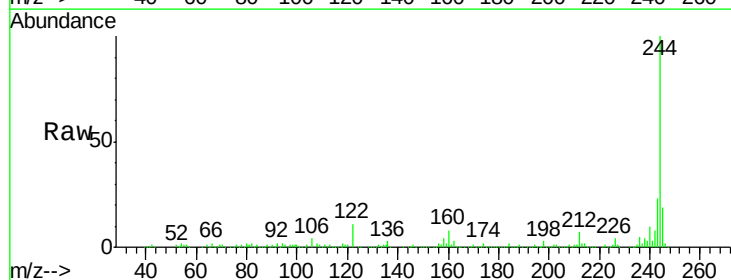
Tgt Ion:244 Resp: 253985

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

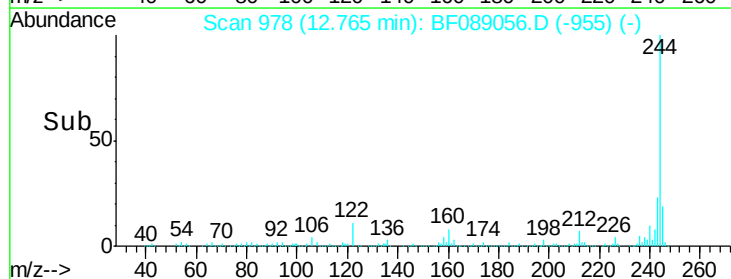
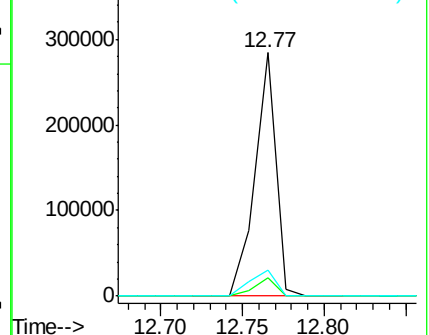
122 10.6 11.2 16.8#

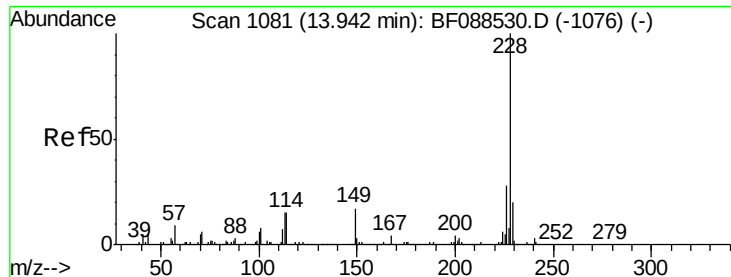


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

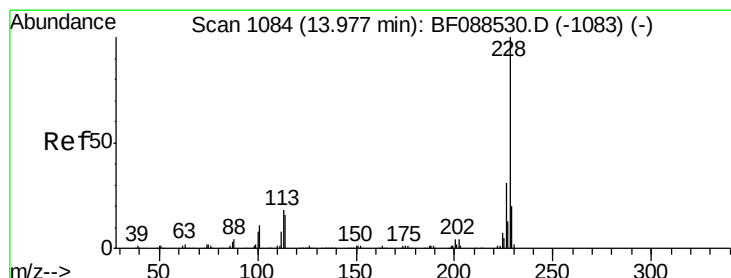
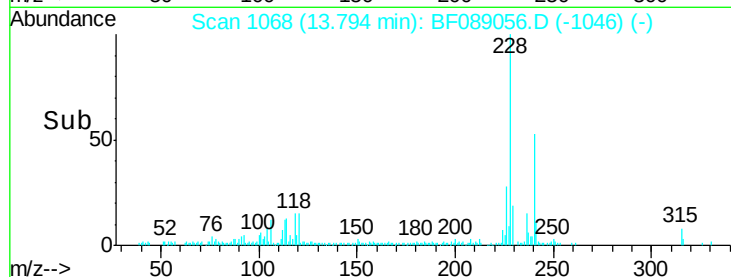
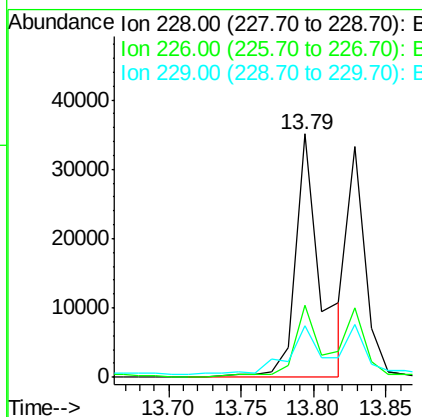
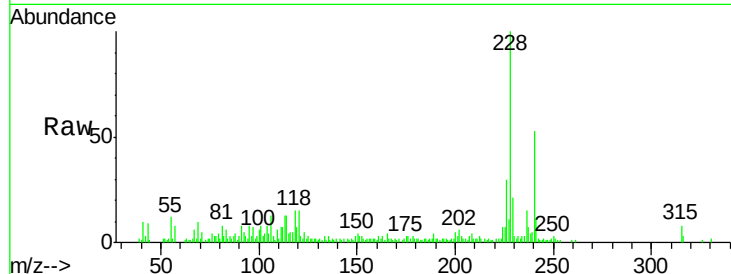




#80
Benzo(a)anthracene
Concen: 5.71 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

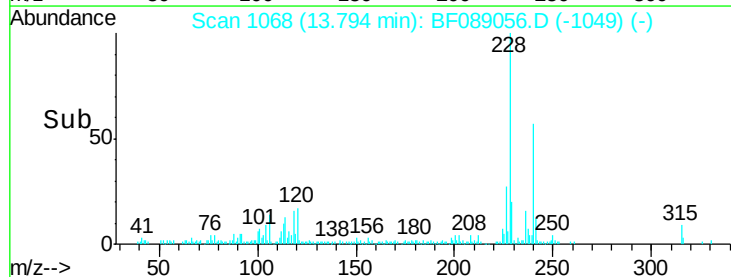
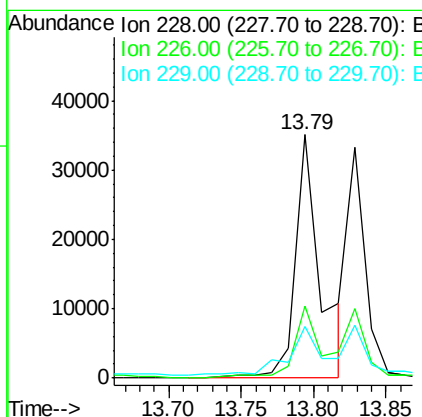
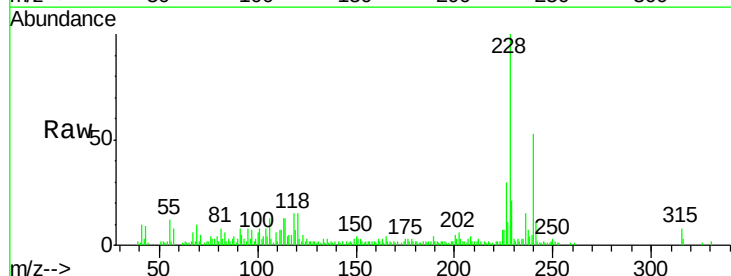
Instrument :
BNA_F
ClientSampled :

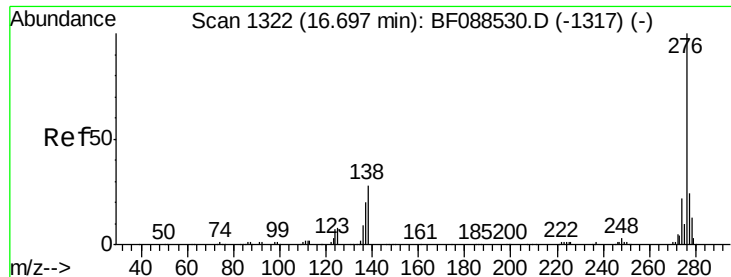
Tot Ion:228 Resp: 42200
Ion Ratio Lower Upper
228 100
226 29.7 22.3 33.5
229 21.3 16.0 24.0



#82
Chrysene
Concen: 5.78 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.08 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Tgt Ion:228 Resp: 42200
Ion Ratio Lower Upper
228 100
226 29.7 25.4 38.2
229 21.3 16.3 24.5

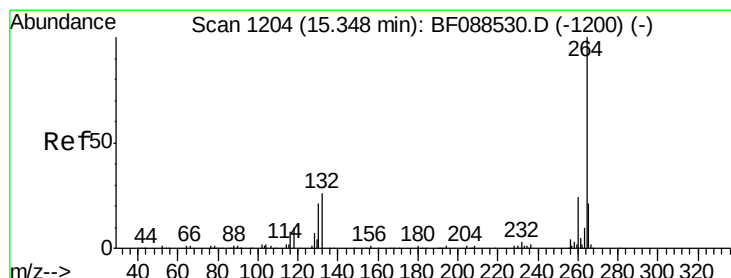
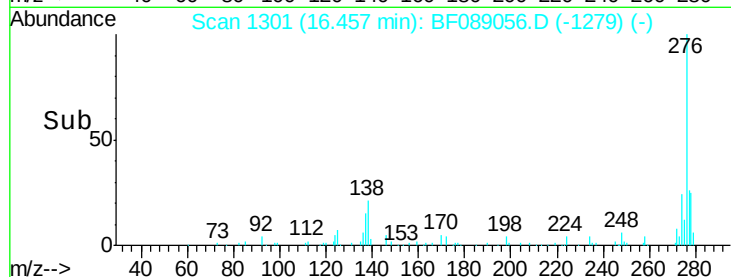
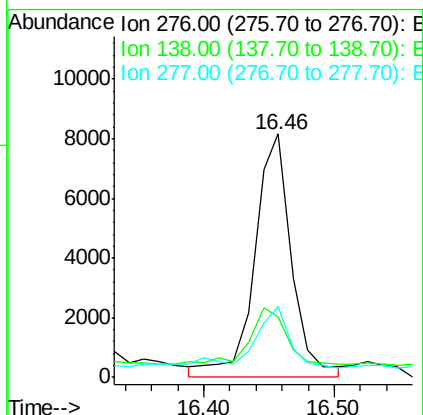
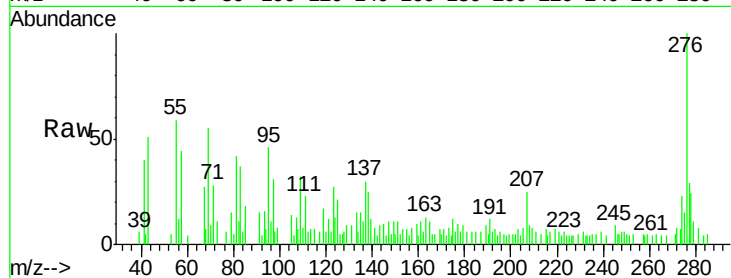




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.89 ng
 RT: 16.46 min Scan# 1301
 Delta R.T. -0.05 min
 Lab File: BF089056.D
 Acq: 16 Jul 2016 15:40

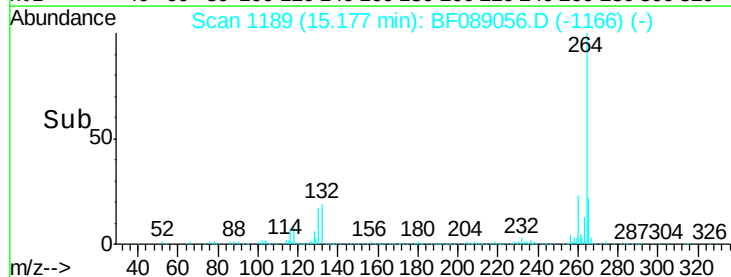
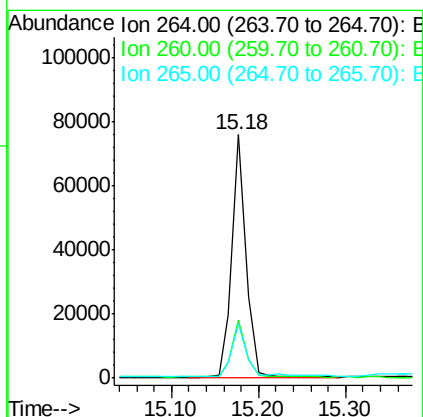
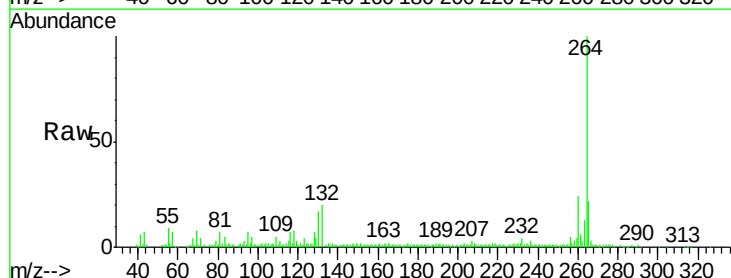
Instrument :
 BNA_F
 ClientSampleId :

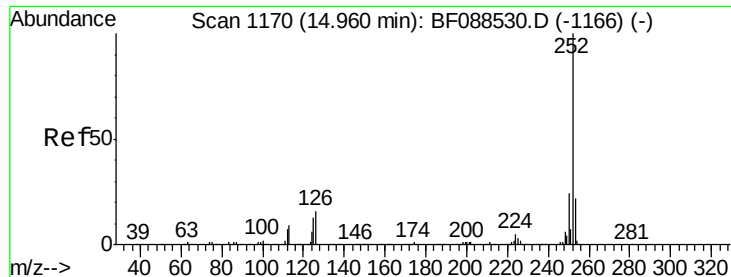
Tot Ion:276 Resp: 16220
 Ion Ratio Lower Upper
 276 100
 138 23.4 0.0 0.0#
 277 24.0 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1189
 Delta R.T. -0.03 min
 Lab File: BF089056.D
 Acq: 16 Jul 2016 15:40

Tgt Ion:264 Resp: 88071
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.2 28.8
 265 22.2 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 9.61 ng

RT: 14.80 min Scan# 1156

Delta R.T. -0.03 min

Lab File: BF089056.D

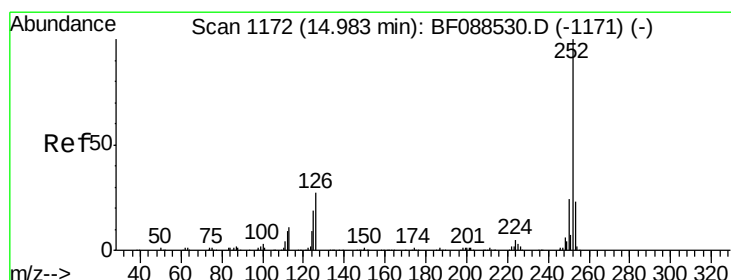
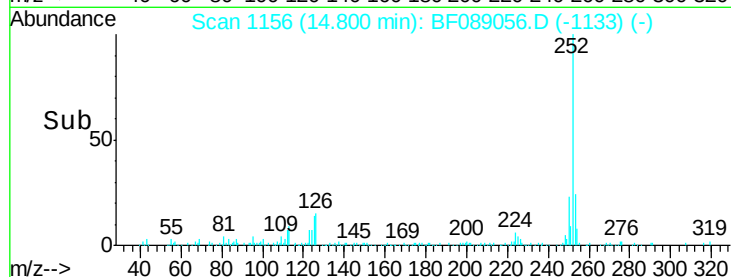
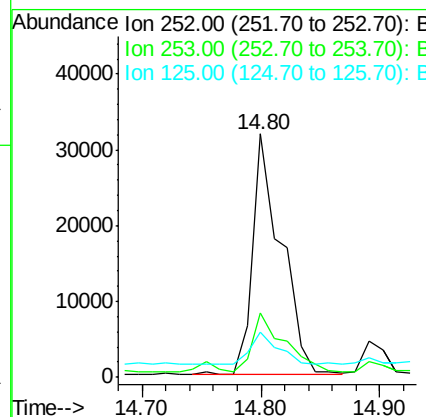
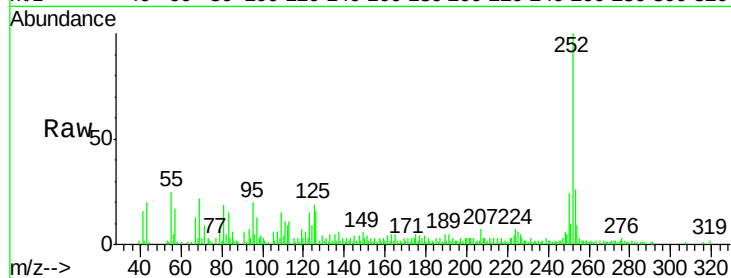
Acq: 16 Jul 2016 15:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	53107
Ion Ratio	Lower	Upper
252	100	
253	26.2	17.4 26.2#
125	18.8	7.1 10.7#



#88

Benzo(k)fluoranthene

Concen: 11.02 ng

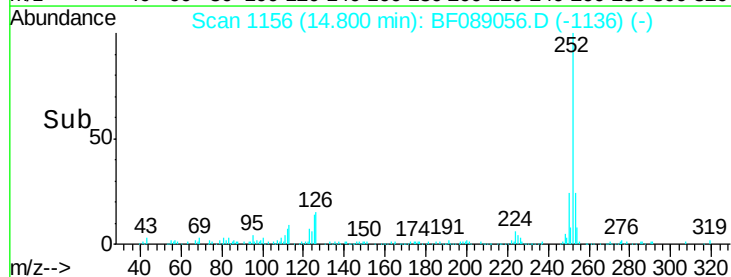
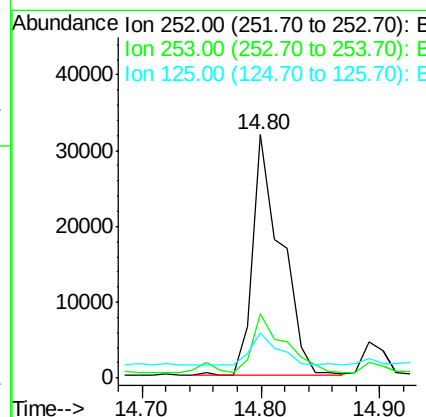
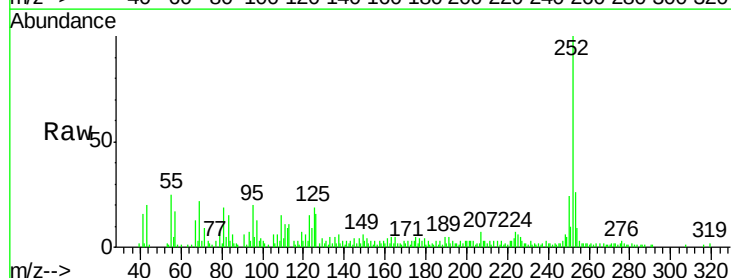
RT: 14.80 min Scan# 1156

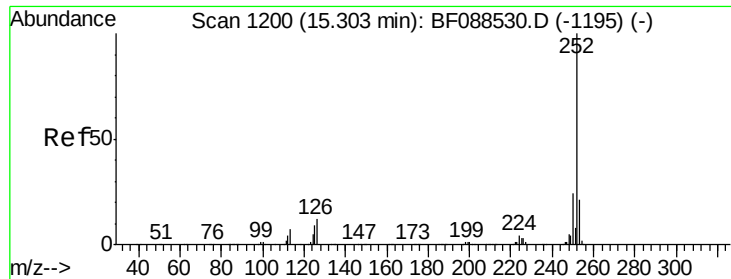
Delta R.T. -0.07 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Tgt Ion:252	Resp:	53005
Ion Ratio	Lower	Upper
252	100	
253	26.2	18.0 27.0
125	18.8	11.2 16.8#

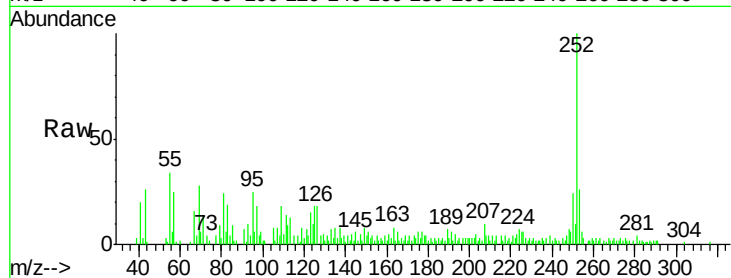




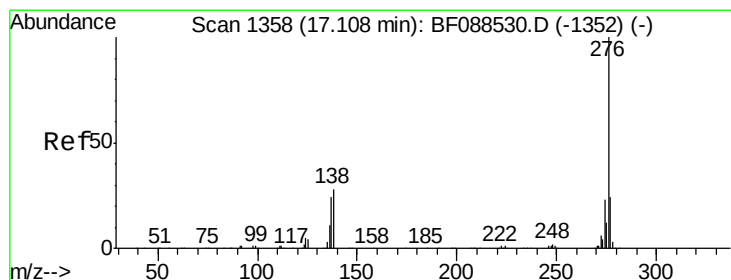
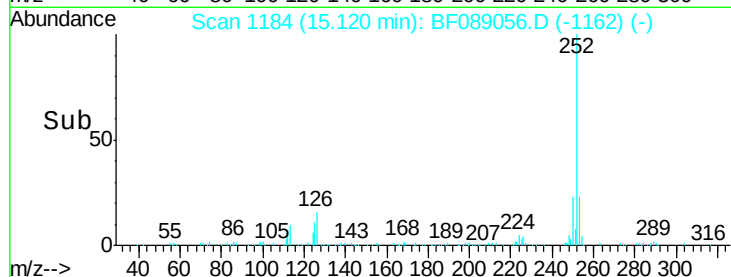
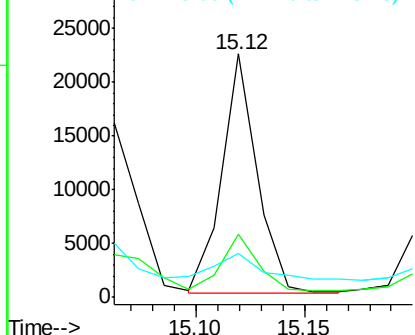
#89
Benzo(a)pyrene
Concen: 5.34 ng
RT: 15.12 min Scan# 1184
Delta R.T. -0.05 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 24984
Ion Ratio Lower Upper
252 100
253 25.9 17.9 26.9
125 18.3 12.5 18.7

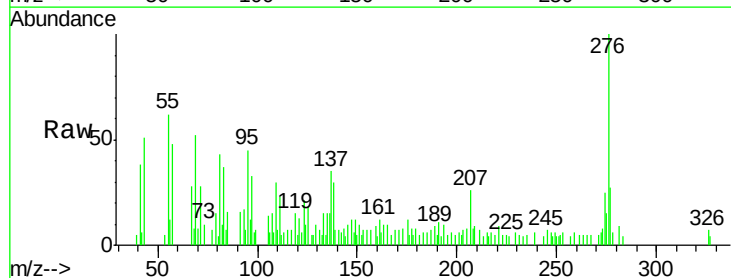


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 3.95 ng
RT: 16.83 min Scan# 1334
Delta R.T. -0.06 min
Lab File: BF089056.D
Acq: 16 Jul 2016 15:40

Tgt Ion:276 Resp: 15946
Ion Ratio Lower Upper
276 100
277 26.7 18.9 28.3
138 29.6 21.4 32.2



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

