

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060616\
 Data File : BF087766.D
 Acq On : 6 Jun 2016 22:21
 Operator : UM/SJ
 Sample : H3367-01DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

Quant Time: Jun 07 01:17:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 04 11:07:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	102689	20.00	ng	-0.02
21) Naphthalene-d8	8.14	136	413123	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	156734	20.00	ng	-0.02
63) Phenanthrene-d10	11.37	188	281807	20.00	ng	-0.01
75) Chrysene-d12	14.00	240	212737	20.00	ng	-0.02
86) Perylene-d12	15.43	264	170891	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	169405	26.66	ng	-0.01
7) Phenol-d6	6.47	99	188510	23.66	ng	-0.02
23) Nitrobenzene-d5	7.40	82	98344	13.77	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	38068	24.20	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	212652	16.72	ng	-0.02
78) Terphenyl-d14	12.95	244	133300	15.29	ng	-0.02

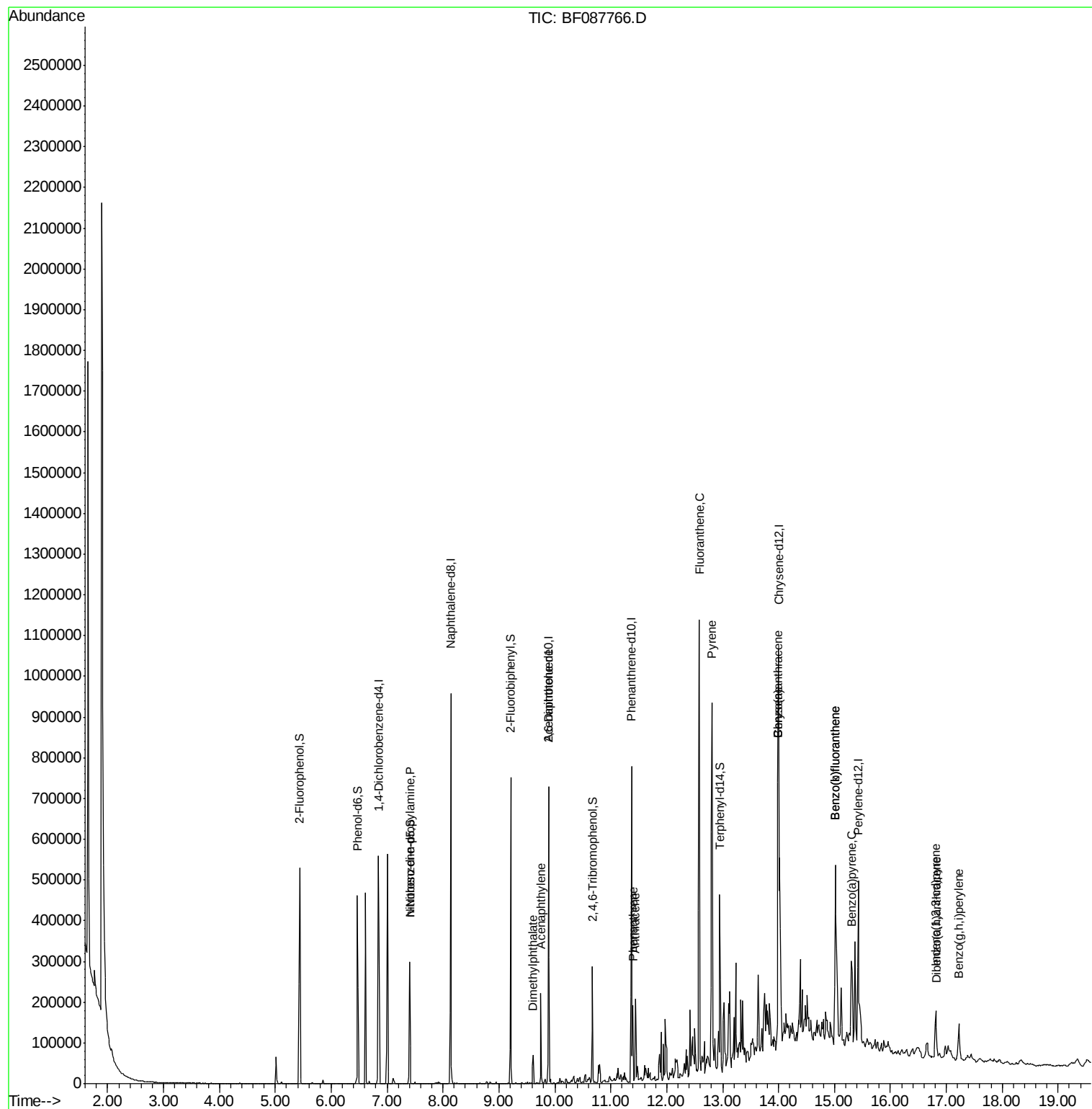
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	12436	2.50	ng	# 80
48) Acenaphthylene	9.75	152	88486	5.60	ng	99
49) Dimethylphthalate	9.61	163	29998	2.63	ng	# 98
50) 2,6-Dinitrotoluene	9.88	165	20481	7.90	ng	# 40
70) Phenanthrene	11.39	178	69078	4.52	ng	98
71) Anthracene	11.44	178	89186	5.83	ng	98
74) Fluoranthene	12.58	202	450413	29.96	ng	97
77) Pyrene	12.81	202	458947	30.30	ng	99
80) Benzo(a)anthracene	13.99	228	287457	23.41	ng	# 92
82) Chrysene	13.99	228	287457	23.52	ng	97
85) Indeno(1,2,3-cd)pyrene	16.81	276	73931	7.32	ng	# 100
87) Benzo(b)fluoranthene	15.02	252	316755	28.49	ng	# 96
88) Benzo(k)fluoranthene	15.02	252	316755	34.25	ng	99
89) Benzo(a)pyrene	15.31	252	108220	11.58	ng	94
90) Dibenzo(a,h)anthracene	16.82	278	19801	2.49	ng	# 93
91) Benzo(g,h,i)perylene	17.22	276	67653	8.43	ng	98

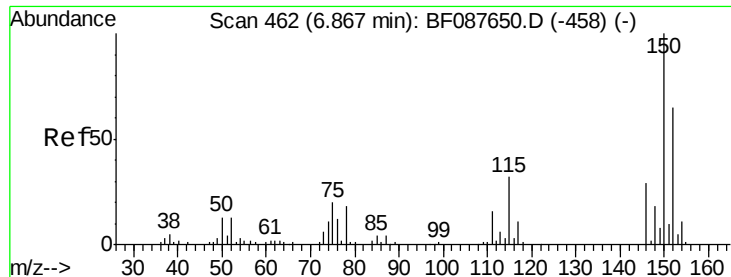
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.84 min Scan# 460

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

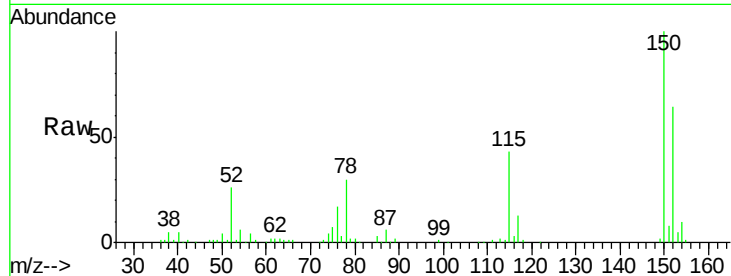
Tgt Ion:152 Resp: 102689

Ion Ratio Lower Upper

152 100

150 156.2 123.8 185.6

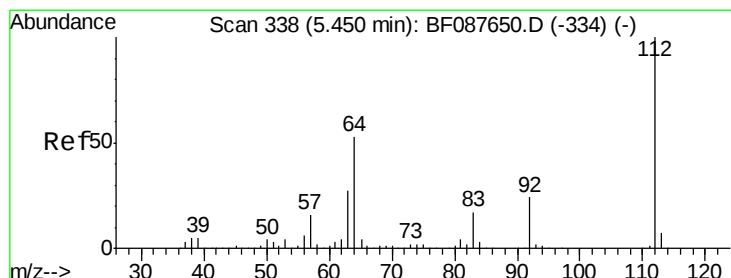
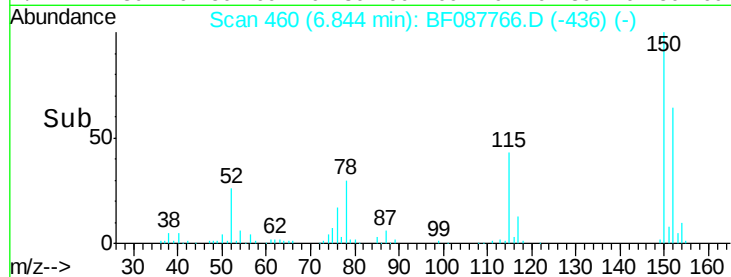
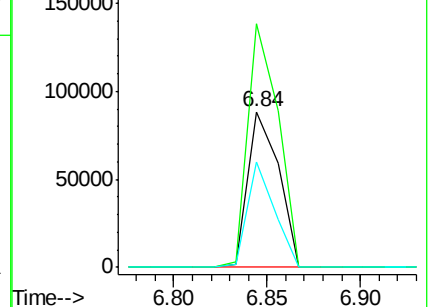
115 67.4 39.6 59.4#



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: 26.66 ng

RT: 5.44 min Scan# 337

Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

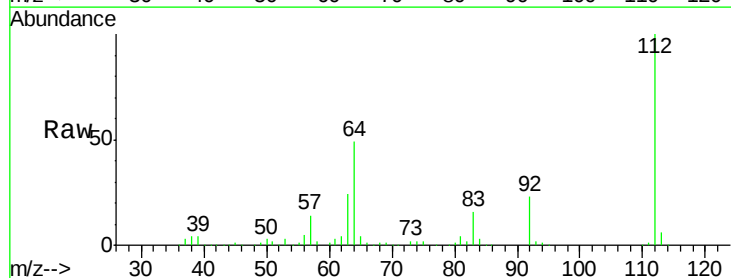
Tgt Ion:112 Resp: 169405

Ion Ratio Lower Upper

112 100

64 48.6 42.2 63.2

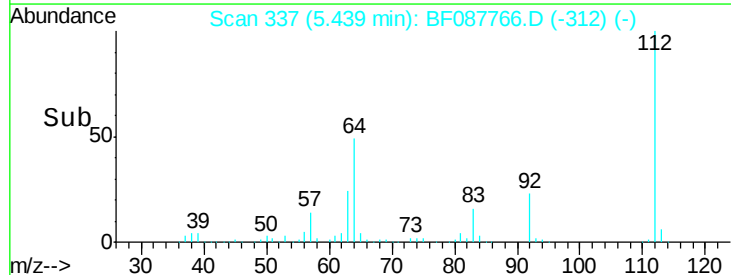
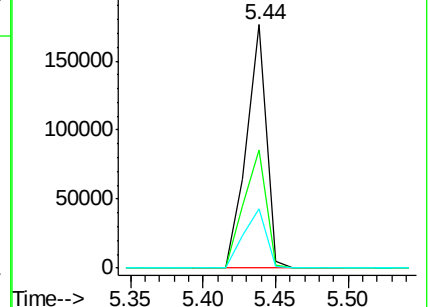
63 24.3 21.8 32.8

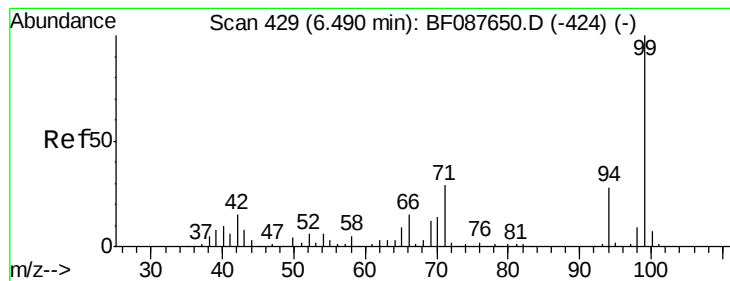


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.66 ng

RT: 6.47 min Scan# 427

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

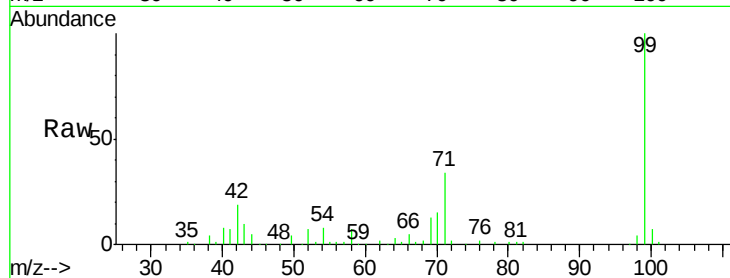
Tgt Ion: 99 Resp: 188510

Ion Ratio Lower Upper

99 100

42 19.2 12.2 18.2#

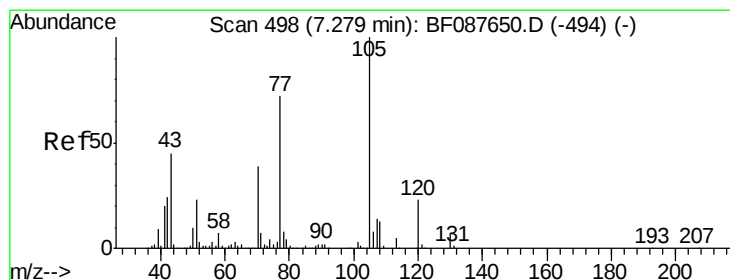
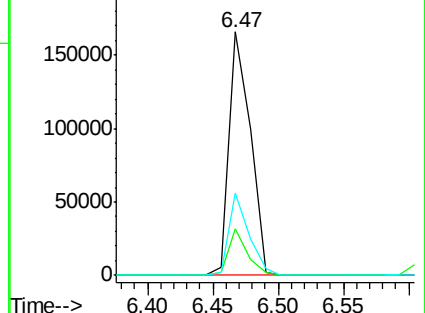
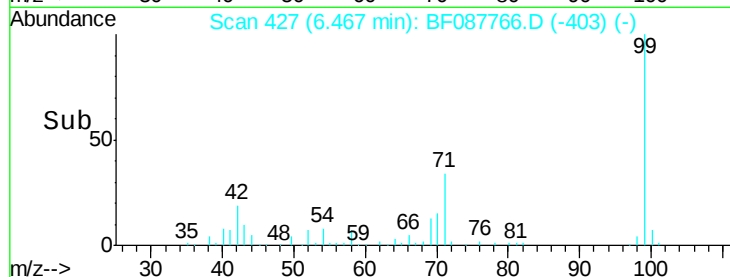
71 33.7 23.4 35.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.50 ng

RT: 7.40 min Scan# 509

Delta R.T. 0.13 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion: 70 Resp: 12436

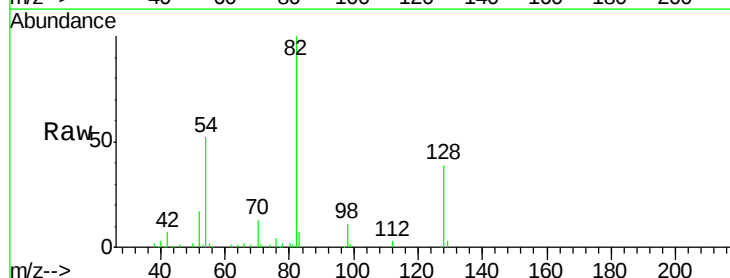
Ion Ratio Lower Upper

70 100

42 52.4 49.6 74.4

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#

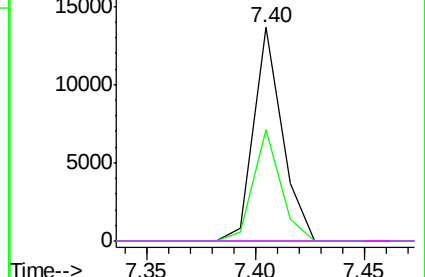
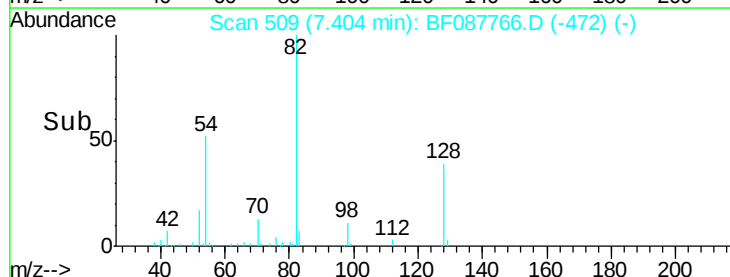


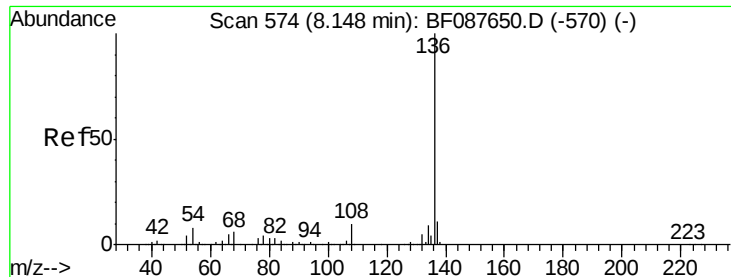
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

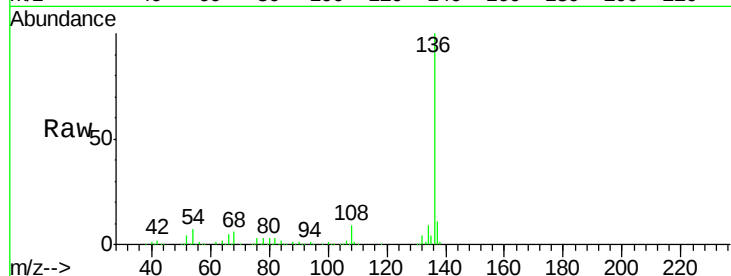




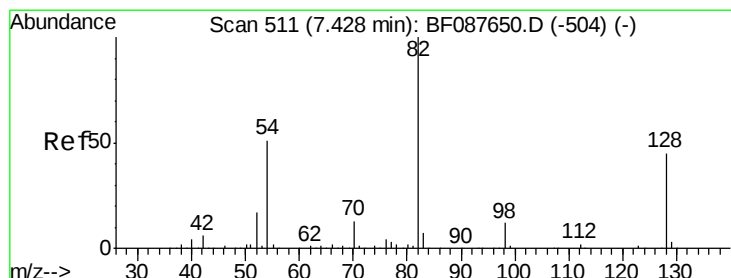
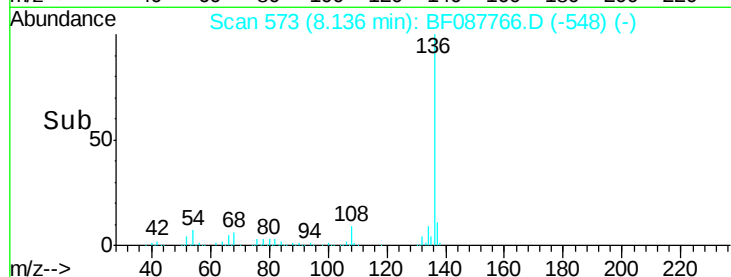
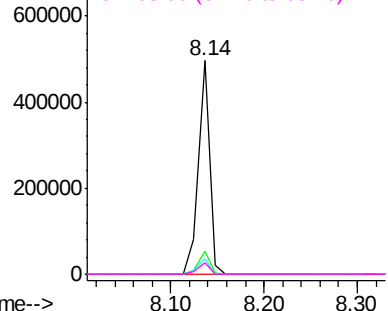
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.14 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tgt Ion:	136	Resp:	413123
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.1	13.7
54	6.9	6.6	10.0
68	5.6	5.1	7.7

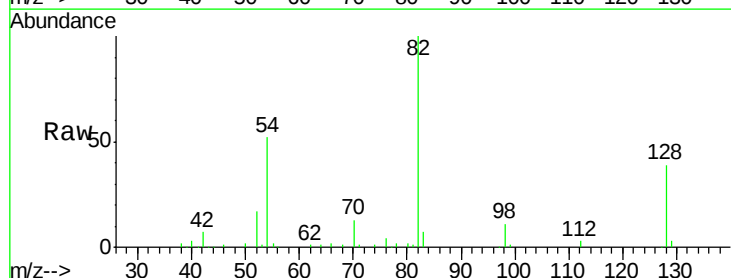


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

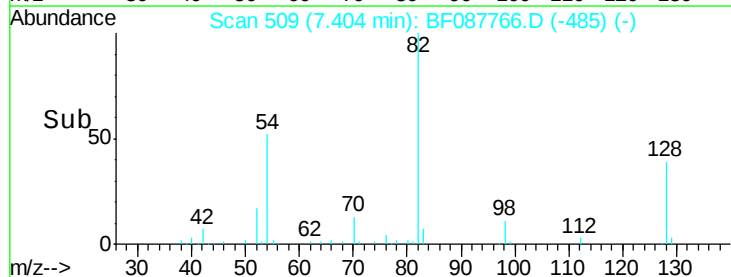
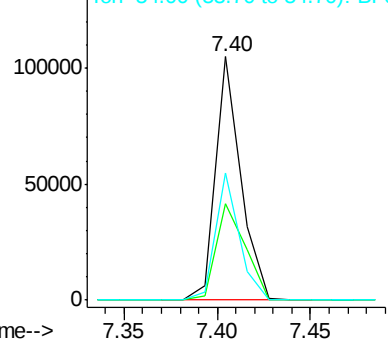


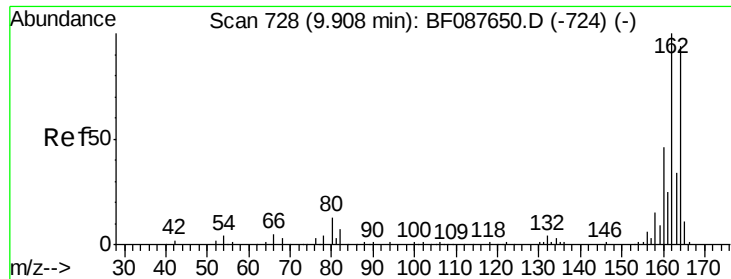
#23
Nitrobenzene-d5
Concen: 13.77 ng
RT: 7.40 min Scan# 509
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion:	82	Resp:	98344
Ion	Ratio	Lower	Upper
82	100		
128	39.4	35.9	53.9
54	52.4	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

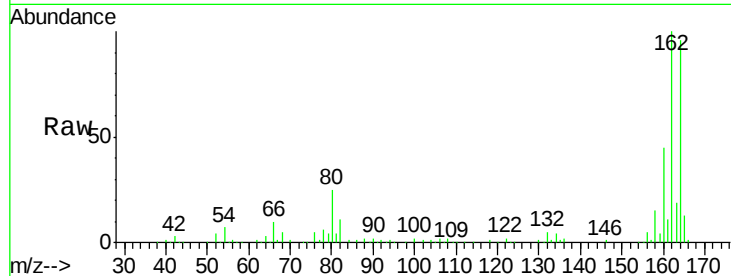




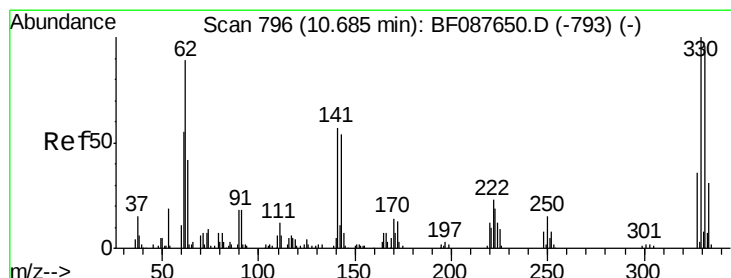
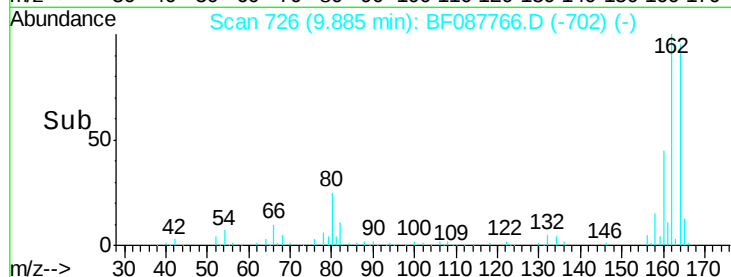
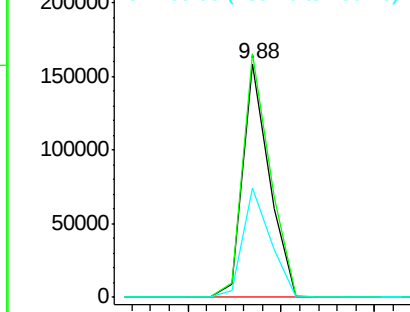
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.88 min Scan# 726
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

Tgt Ion:164 Resp: 156734
 Ion Ratio Lower Upper
 164 100
 162 104.1 85.4 128.2
 160 46.6 39.5 59.3

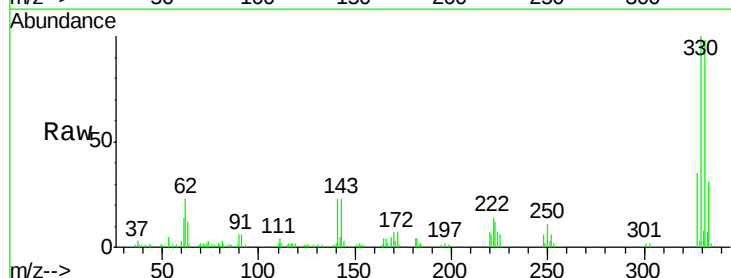


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

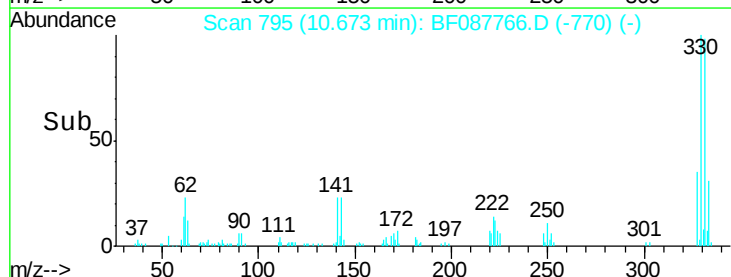
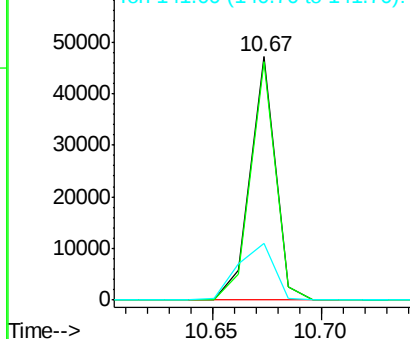


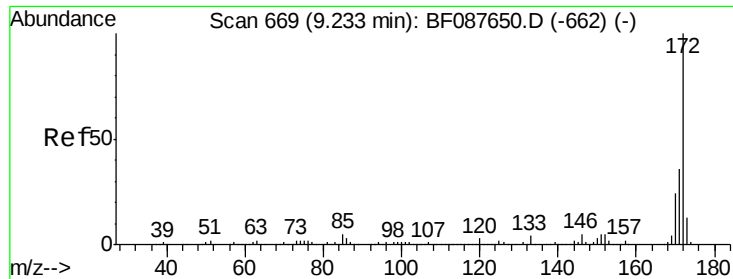
#41
 2,4,6-Tribromophenol
 Concen: 24.20 ng
 RT: 10.67 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Tgt Ion:330 Resp: 38068
 Ion Ratio Lower Upper
 330 100
 332 96.6 0.0 0.0#
 141 33.7 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

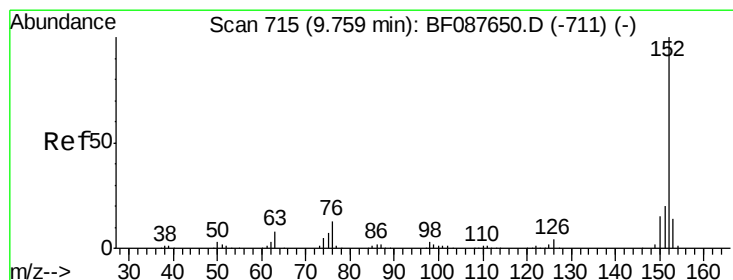
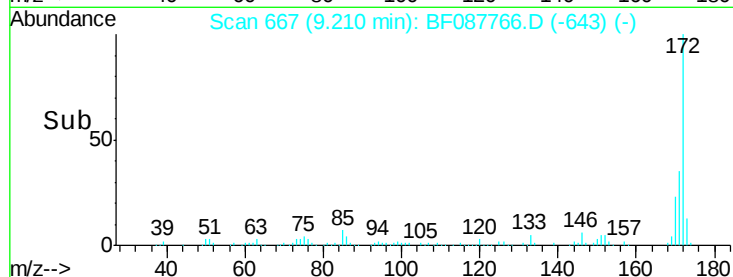
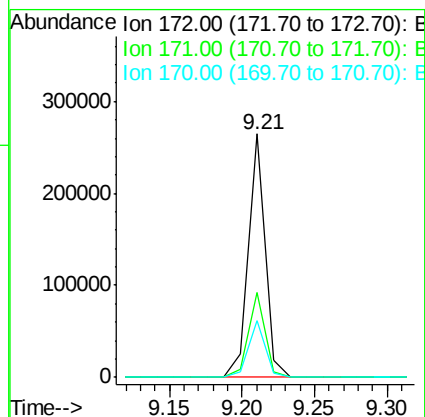
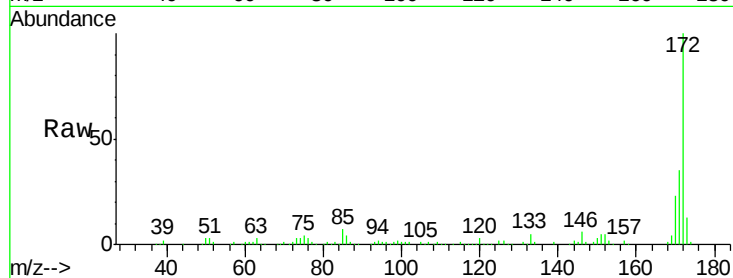




#44
2-Fluorobiphenyl
Concen: 16.72 ng
RT: 9.21 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

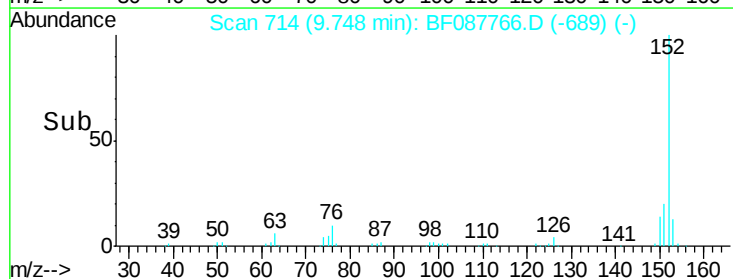
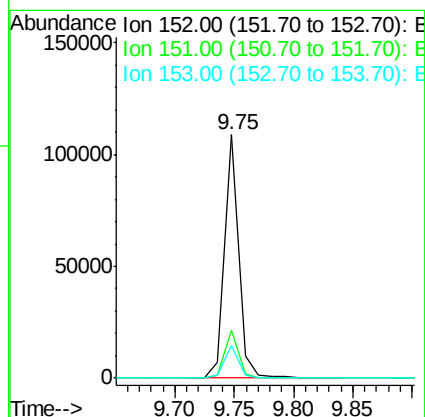
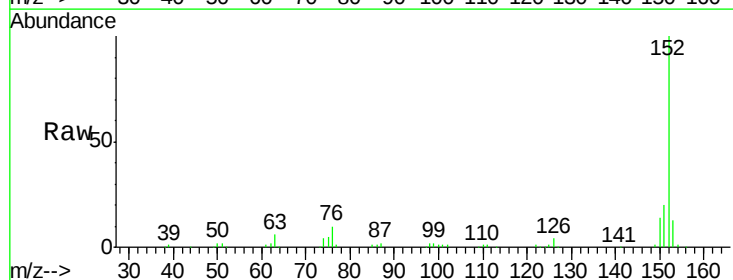
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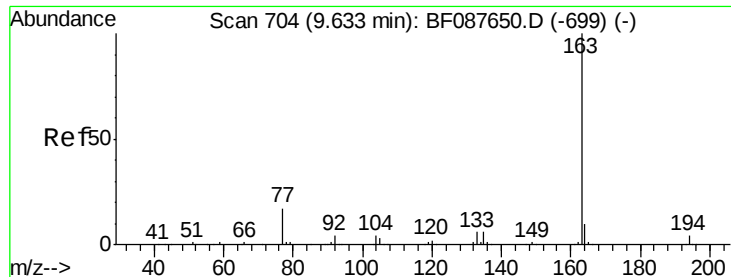
Tgt Ion:172 Resp: 212652
Ion Ratio Lower Upper
172 100
171 34.9 28.6 43.0
170 23.3 19.2 28.8



#48
Acenaphthylene
Concen: 5.60 ng
RT: 9.75 min Scan# 714
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion:152 Resp: 88486
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 13.1 11.0 16.6

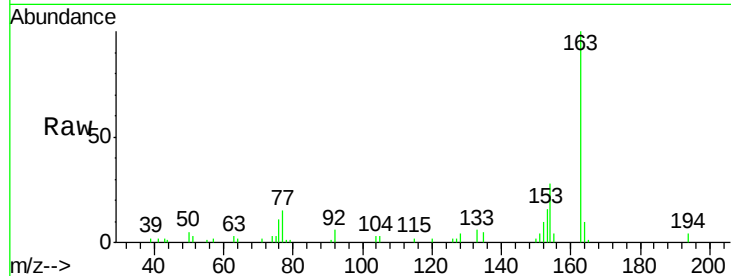




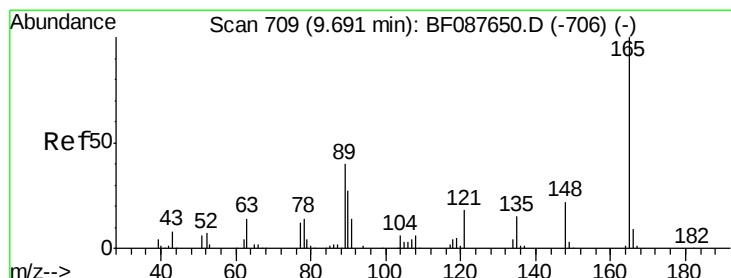
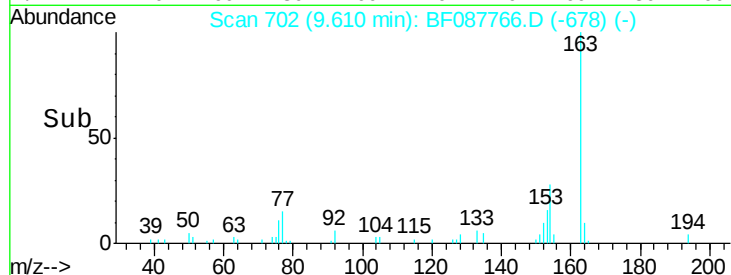
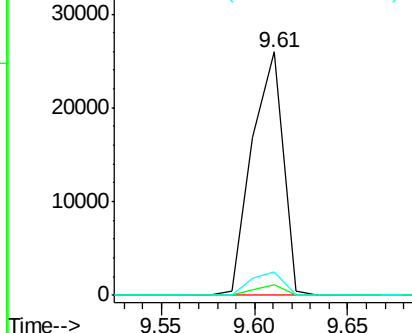
#49
Dimethylphthalate
Concen: 2.63 ng
RT: 9.61 min Scan# 702
Delta R.T. -0.02 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tgt Ion:163 Resp: 29998
Ion Ratio Lower Upper
163 100
194 4.4 2.8 4.2#
164 9.7 8.3 12.5

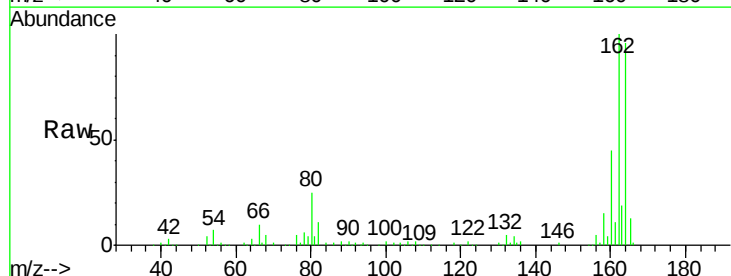


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

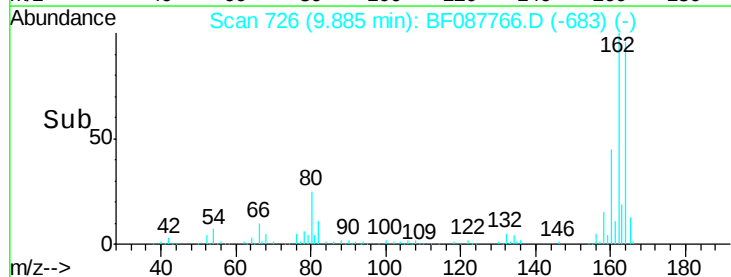
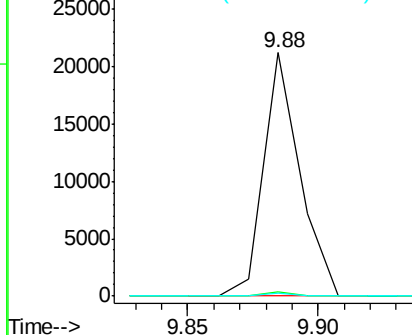


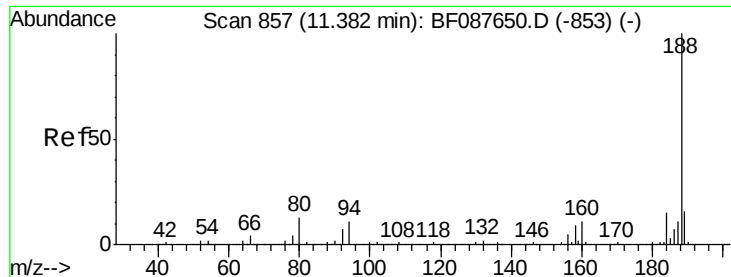
#50
2,6-Dinitrotoluene
Concen: 7.90 ng
RT: 9.88 min Scan# 726
Delta R.T. 0.19 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion:165 Resp: 20481
Ion Ratio Lower Upper
165 100
63 1.5 28.1 42.1#
89 1.4 32.2 48.2#



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

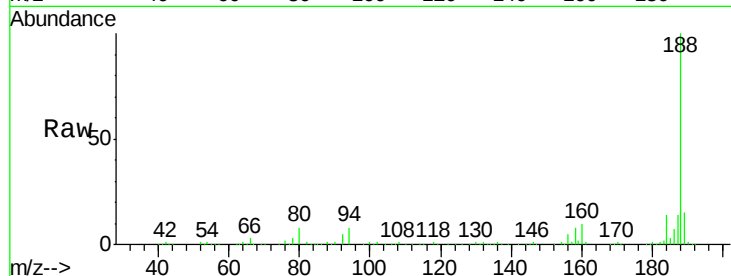




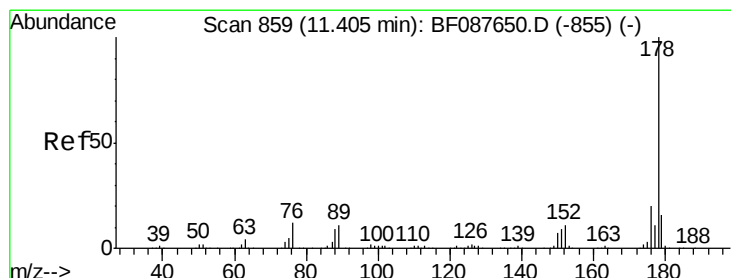
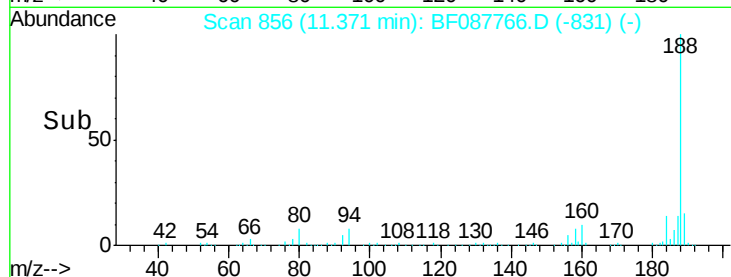
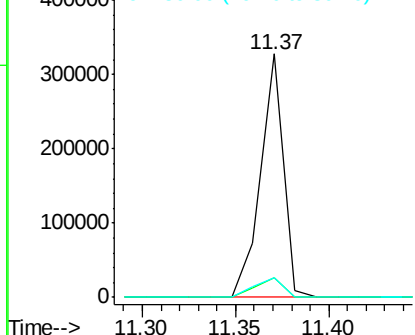
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 856
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Instrument :
BNA_F
ClientSampleId :
SC-1491(0-4)DL

Tgt Ion:188 Resp: 281807
Ion Ratio Lower Upper
188 100
94 8.1 9.0 13.6#
80 8.1 10.0 15.0#

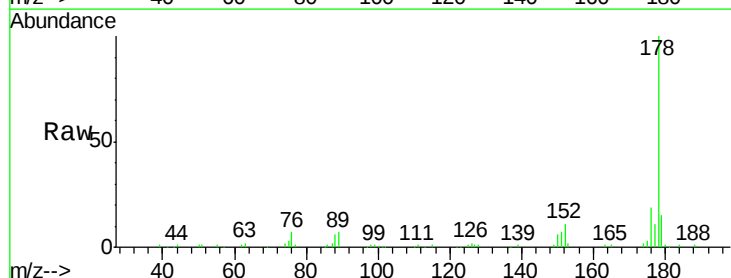


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

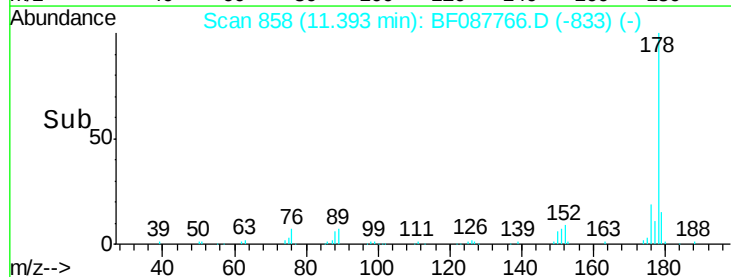
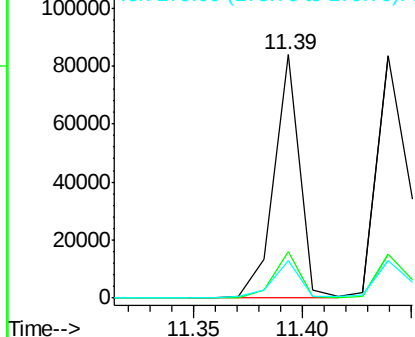


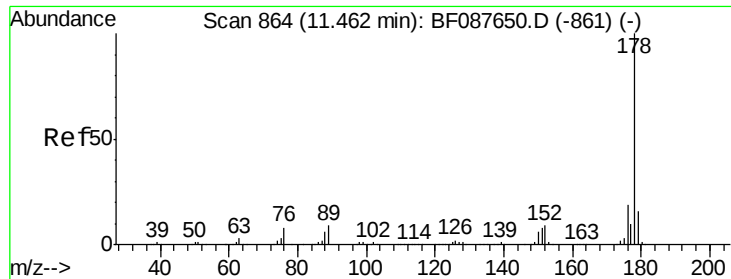
#70
Phenanthrene
Concen: 4.52 ng
RT: 11.39 min Scan# 858
Delta R.T. -0.01 min
Lab File: BF087766.D
Acq: 6 Jun 2016 22:21

Tgt Ion:178 Resp: 69078
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.3 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

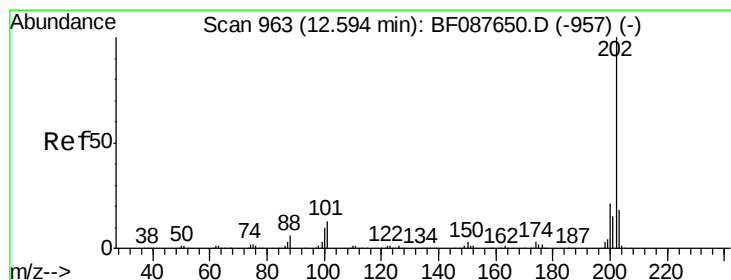
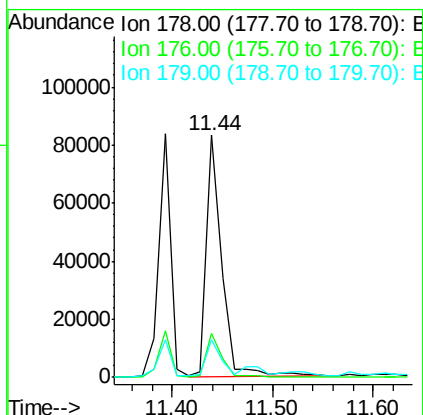
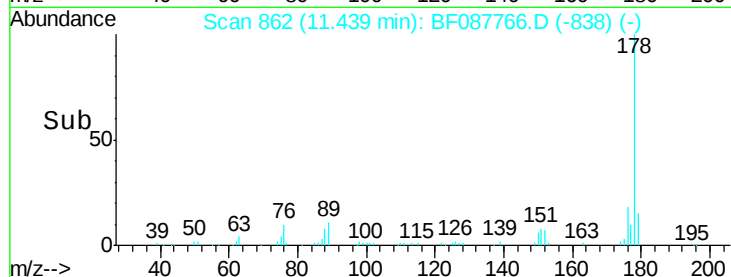
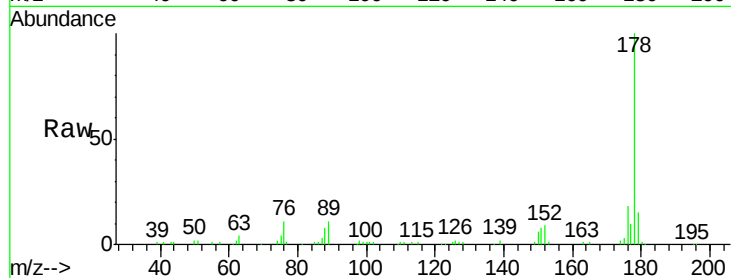




#71
 Anthracene
 Concen: 5.83 ng
 RT: 11.44 min Scan# 862
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

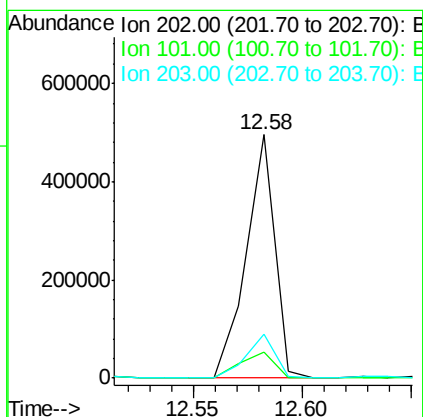
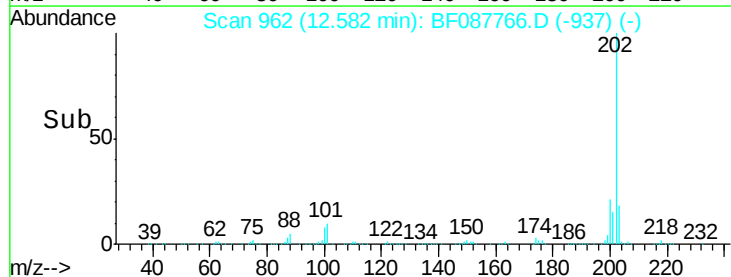
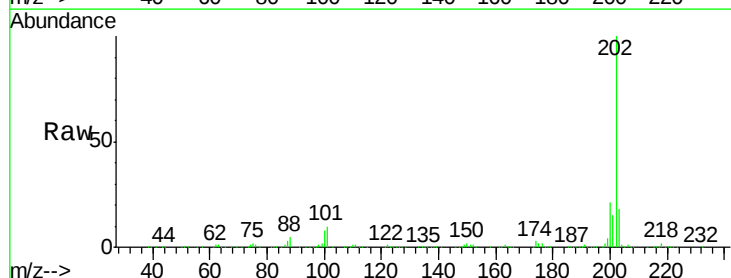
Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

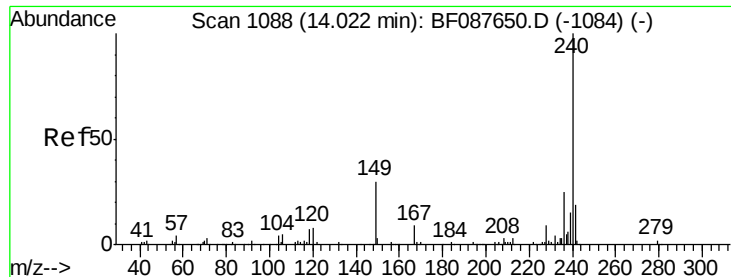
Tgt Ion:178 Resp: 89186
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.6 23.4
 179 15.3 12.8 19.2



#74
 Fluoranthene
 Concen: 29.96 ng
 RT: 12.58 min Scan# 962
 Delta R.T. -0.01 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Tgt Ion:202 Resp: 450413
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 33.1
 203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1086

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

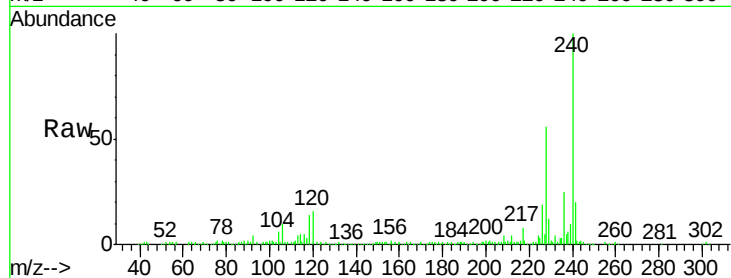
Tgt Ion:240 Resp: 212737

Ion Ratio Lower Upper

240 100

120 15.9 6.8 10.2#

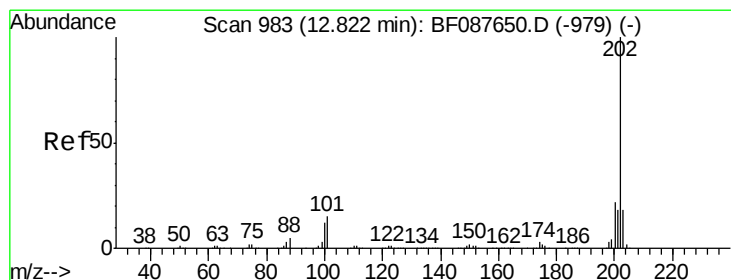
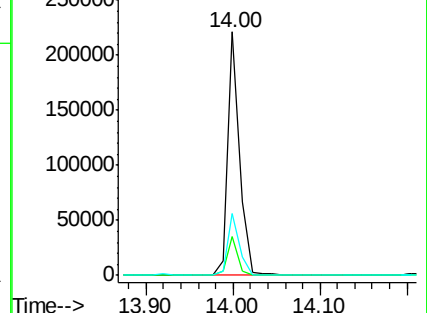
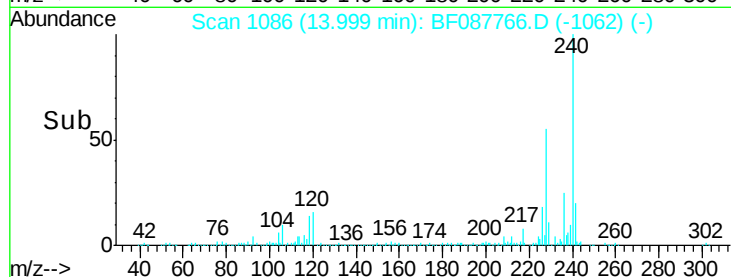
236 25.4 20.2 30.2



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

Pyrene

Concen: 30.30 ng

RT: 12.81 min Scan# 982

Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

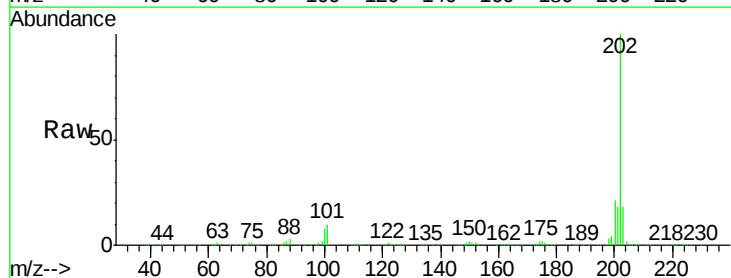
Tgt Ion:202 Resp: 458947

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

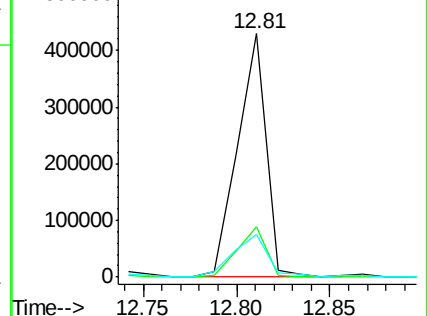
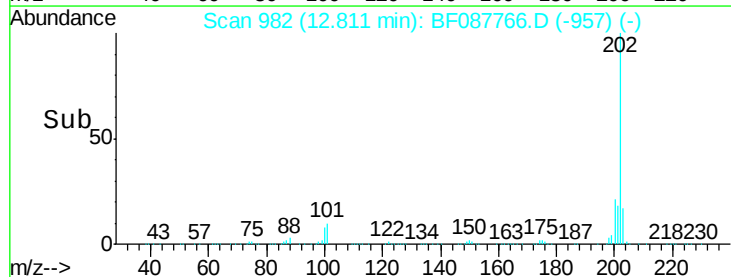
203 17.6 14.5 21.7

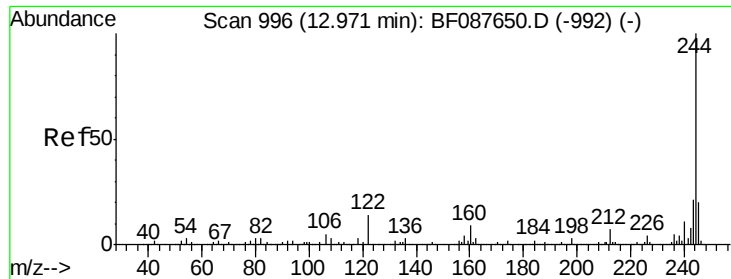


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

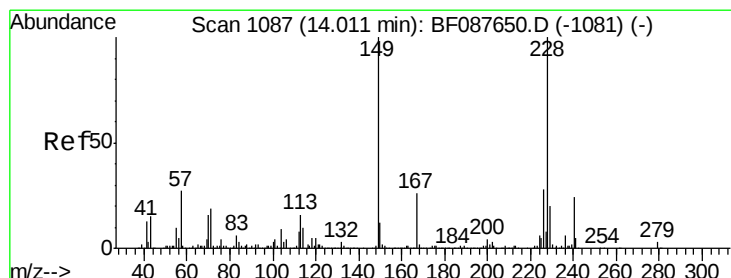
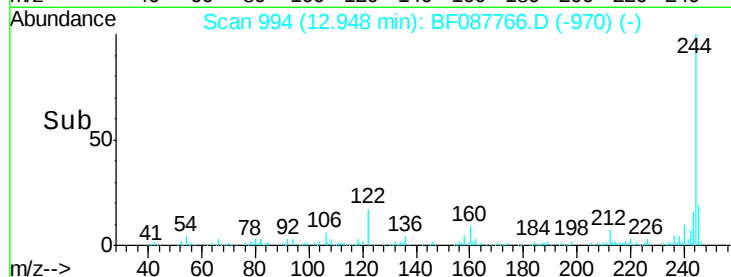
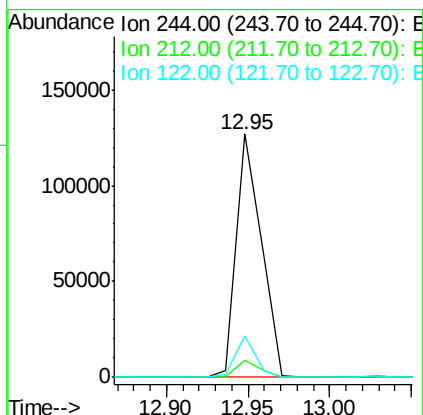
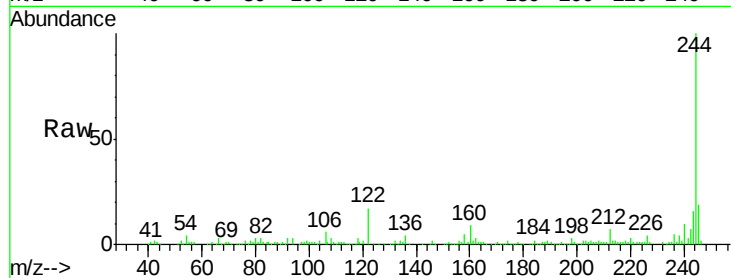




#78
 Terphenyl-d14
 Concen: 15.29 ng
 RT: 12.95 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

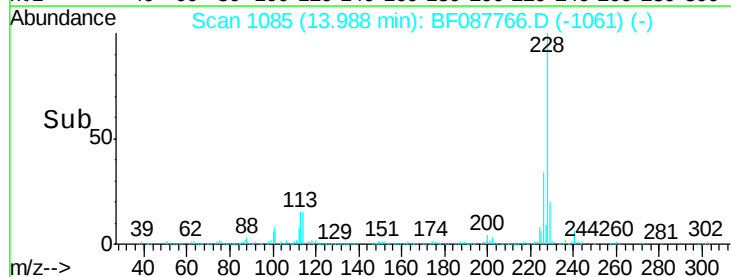
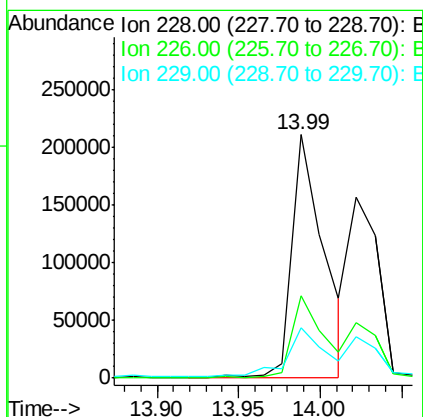
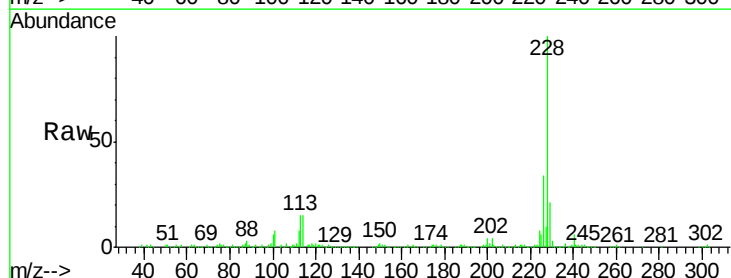
Instrument :
 BNA_F
 ClientSampleId :
 SC-1491(0-4)DL

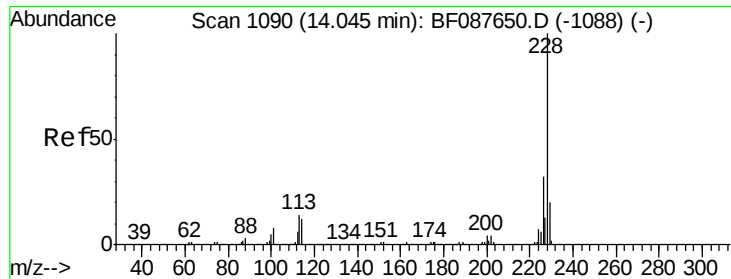
Tgt Ion:244 Resp: 133300
 Ion Ratio Lower Upper
 244 100
 212 7.2 6.0 9.0
 122 16.8 11.2 16.8#



#80
 Benzo(a)anthracene
 Concen: 23.41 ng
 RT: 13.99 min Scan# 1085
 Delta R.T. -0.02 min
 Lab File: BF087766.D
 Acq: 6 Jun 2016 22:21

Tgt Ion:228 Resp: 287457
 Ion Ratio Lower Upper
 228 100
 226 34.0 22.3 33.5#
 229 20.9 16.0 24.0





#82

Chrysene

Concen: 23.52 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.06 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

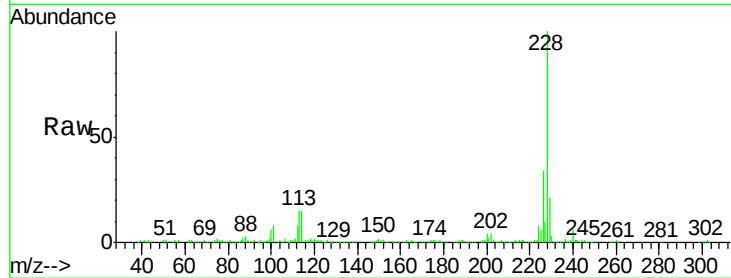
Tgt Ion:228 Resp: 287457

Ion Ratio Lower Upper

228 100

226 34.0 25.4 38.2

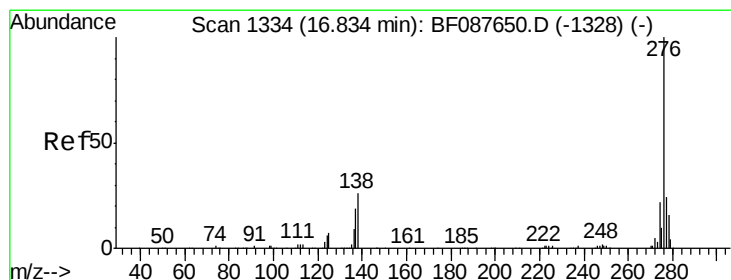
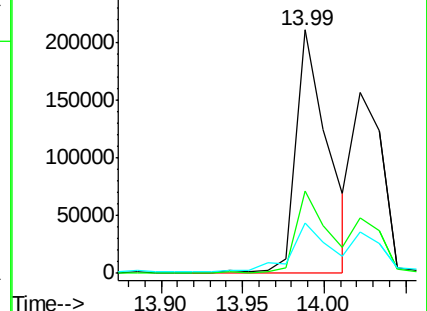
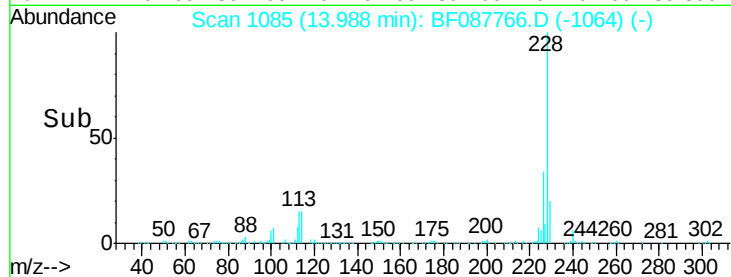
229 20.9 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.32 ng

RT: 16.81 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

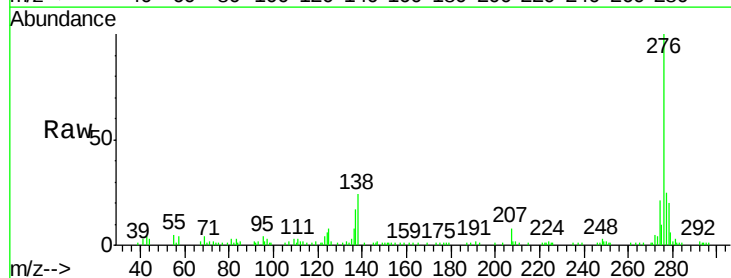
Tgt Ion:276 Resp: 73931

Ion Ratio Lower Upper

276 100

138 24.8 0.0 0.0#

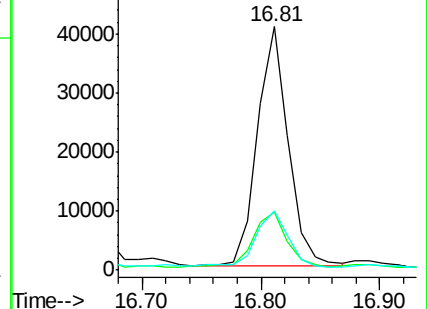
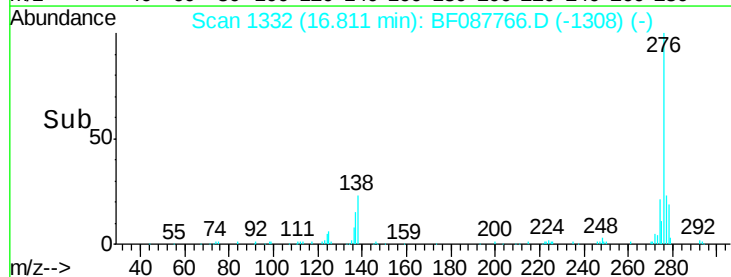
277 24.4 0.0 0.0#

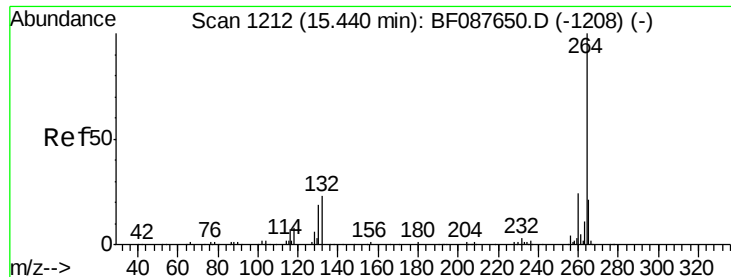


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.43 min Scan# 1211

Delta R.T. -0.01 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

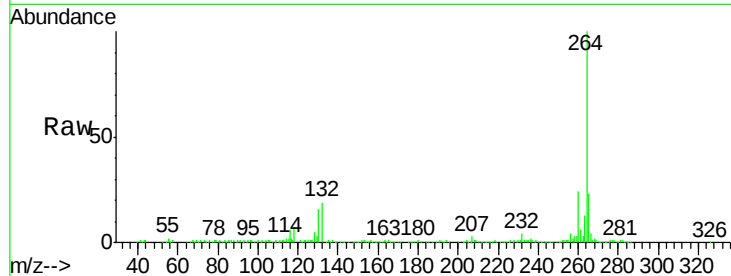
Tgt Ion:264 Resp: 170891

Ion Ratio Lower Upper

264 100

260 23.6 19.2 28.8

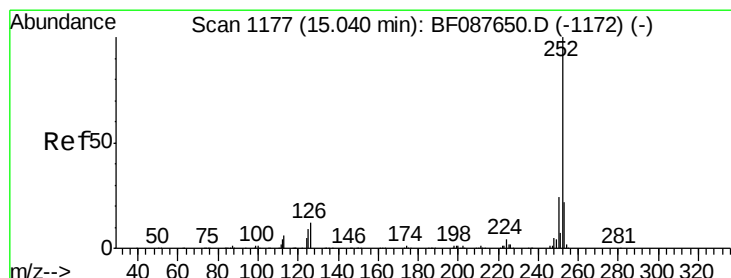
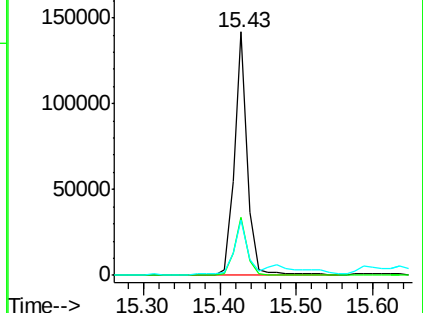
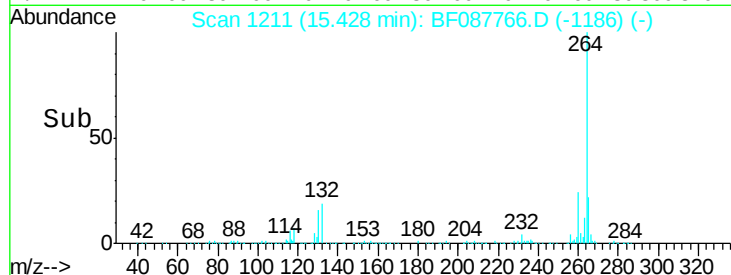
265 22.6 16.9 25.3



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: 28.49 ng

RT: 15.02 min Scan# 1175

Delta R.T. -0.02 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

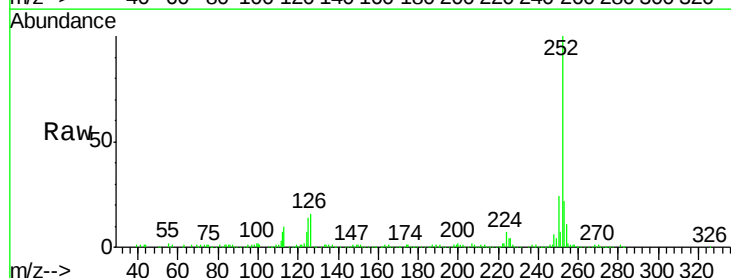
Tgt Ion:252 Resp: 316755

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

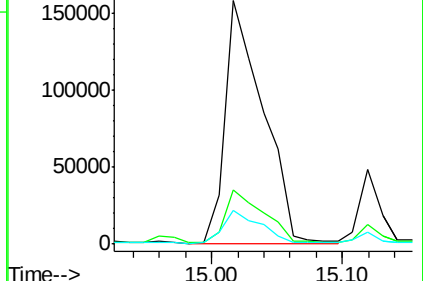
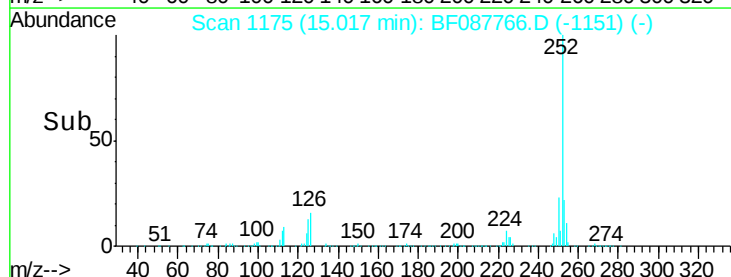
125 13.6 7.1 10.7#

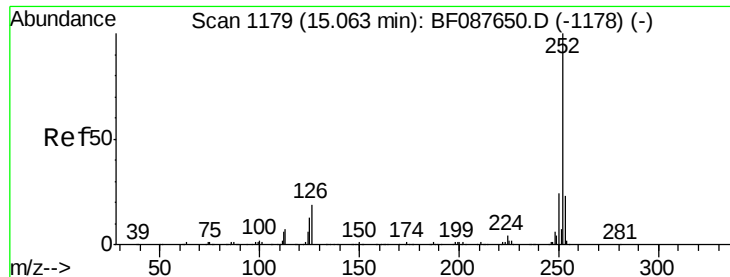


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 34.25 ng

RT: 15.02 min Scan# 1175

Delta R.T. -0.05 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

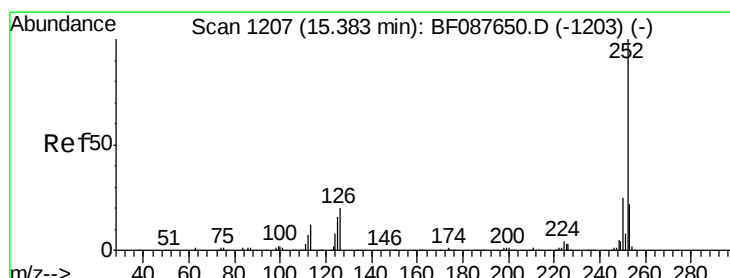
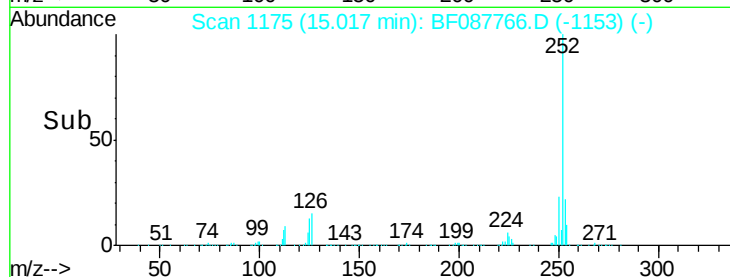
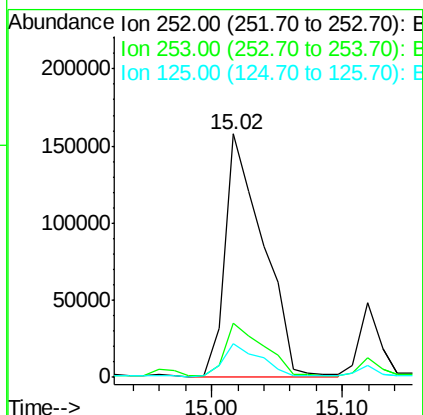
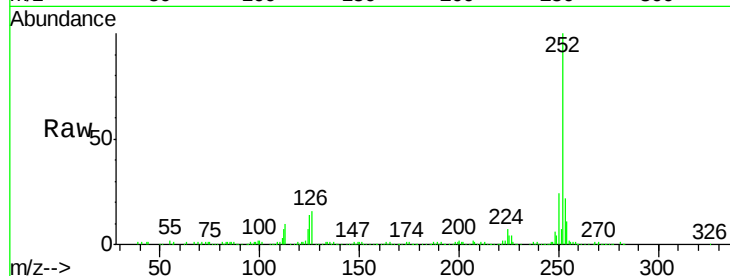
Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

Tgt Ion:	252	Resp:	316755
Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	13.6	11.2	16.8



#89

Benzo(a)pyrene

Concen: 11.58 ng

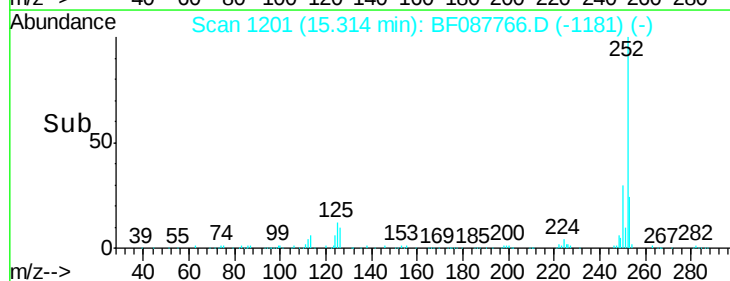
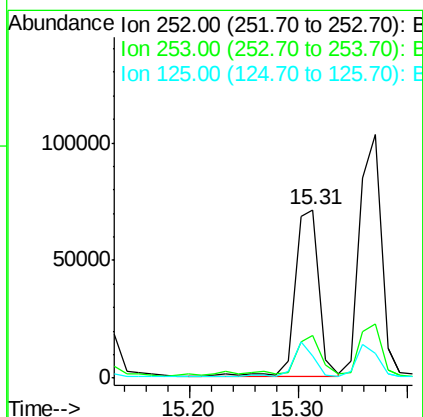
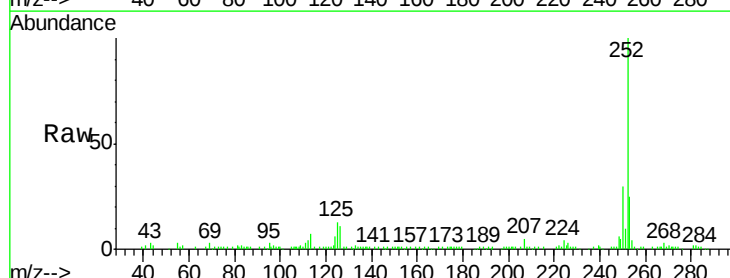
RT: 15.31 min Scan# 1201

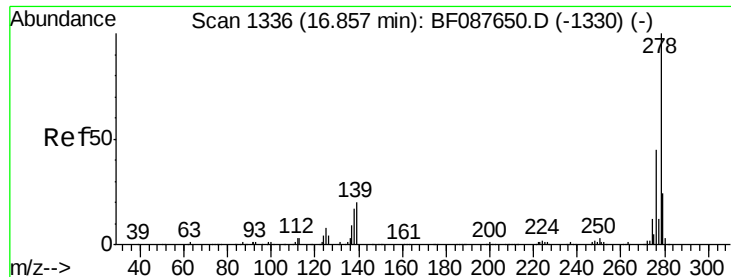
Delta R.T. -0.07 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Tgt Ion:	252	Resp:	108220
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	13.1	12.5	18.7





#90

Dibenzo(a,h)anthracene

Concen: 2.49 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.03 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

Instrument :

BNA_F

ClientSampleId :

SC-1491(0-4)DL

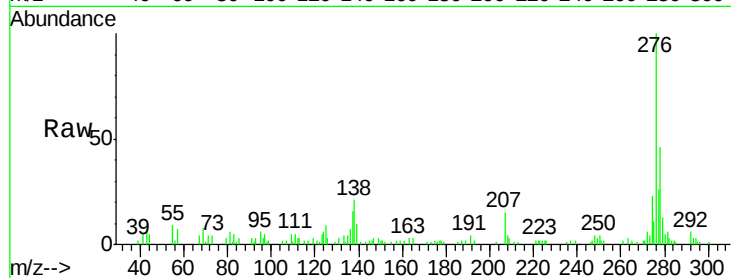
Tgt Ion:278 Resp: 19801

Ion Ratio Lower Upper

278 100

139 21.4 15.7 23.5

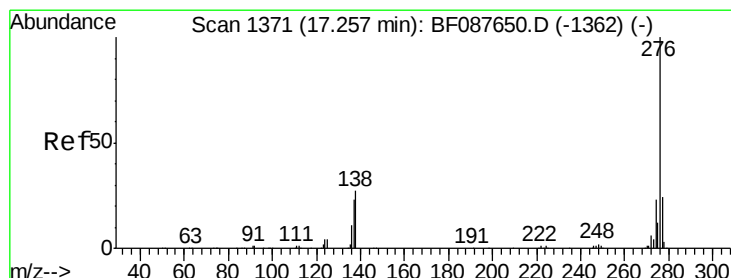
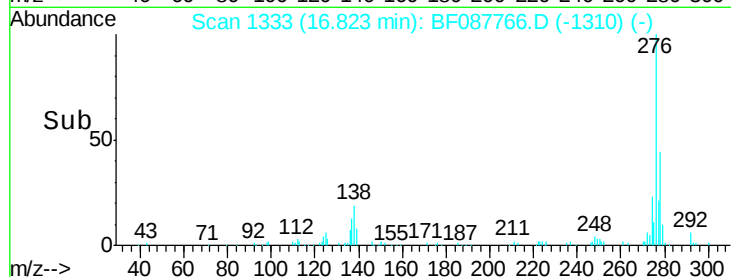
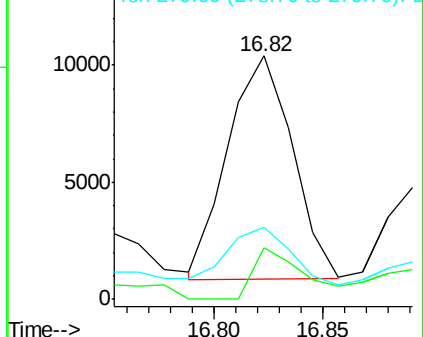
279 29.4 19.4 29.2#



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: 8.43 ng

RT: 17.22 min Scan# 1368

Delta R.T. -0.03 min

Lab File: BF087766.D

Acq: 6 Jun 2016 22:21

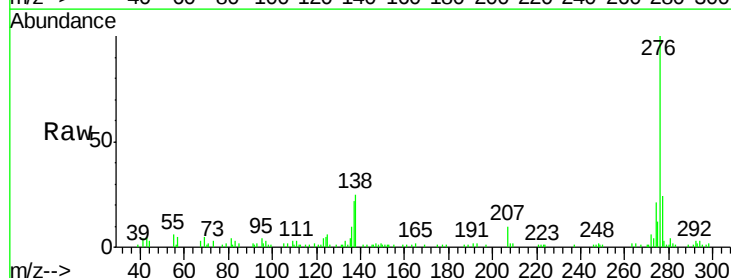
Tgt Ion:276 Resp: 67653

Ion Ratio Lower Upper

276 100

277 24.4 18.9 28.3

138 25.2 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

