

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042716\
 Data File : BF086436.D
 Acq On : 27 Apr 2016 21:03
 Operator : UM/SJ
 Sample : H2724-07
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TH-B4(0-5)-C

Quant Time: Apr 28 00:57:58 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF042716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 27 14:20:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	126995	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	522644	20.00	ng	-0.01
38) Acenaphthene-d10	9.84	164	211240	20.00	ng	-0.01
63) Phenanthrene-d10	11.32	188	324339	20.00	ng	0.00
75) Chrysene-d12	13.95	240	271436	20.00	ng	-0.01
86) Perylene-d12	15.36	264	268867	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	831946	113.00	ng	0.01
7) Phenol-d6	6.44	99	1074930	104.61	ng	0.00
23) Nitrobenzene-d5	7.37	82	638321	65.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.62	330	177514	79.69	ng	-0.01
44) 2-Fluorobiphenyl	9.17	172	1084192	91.23	ng	0.00
78) Terphenyl-d14	12.91	244	659927	53.56	ng	0.00

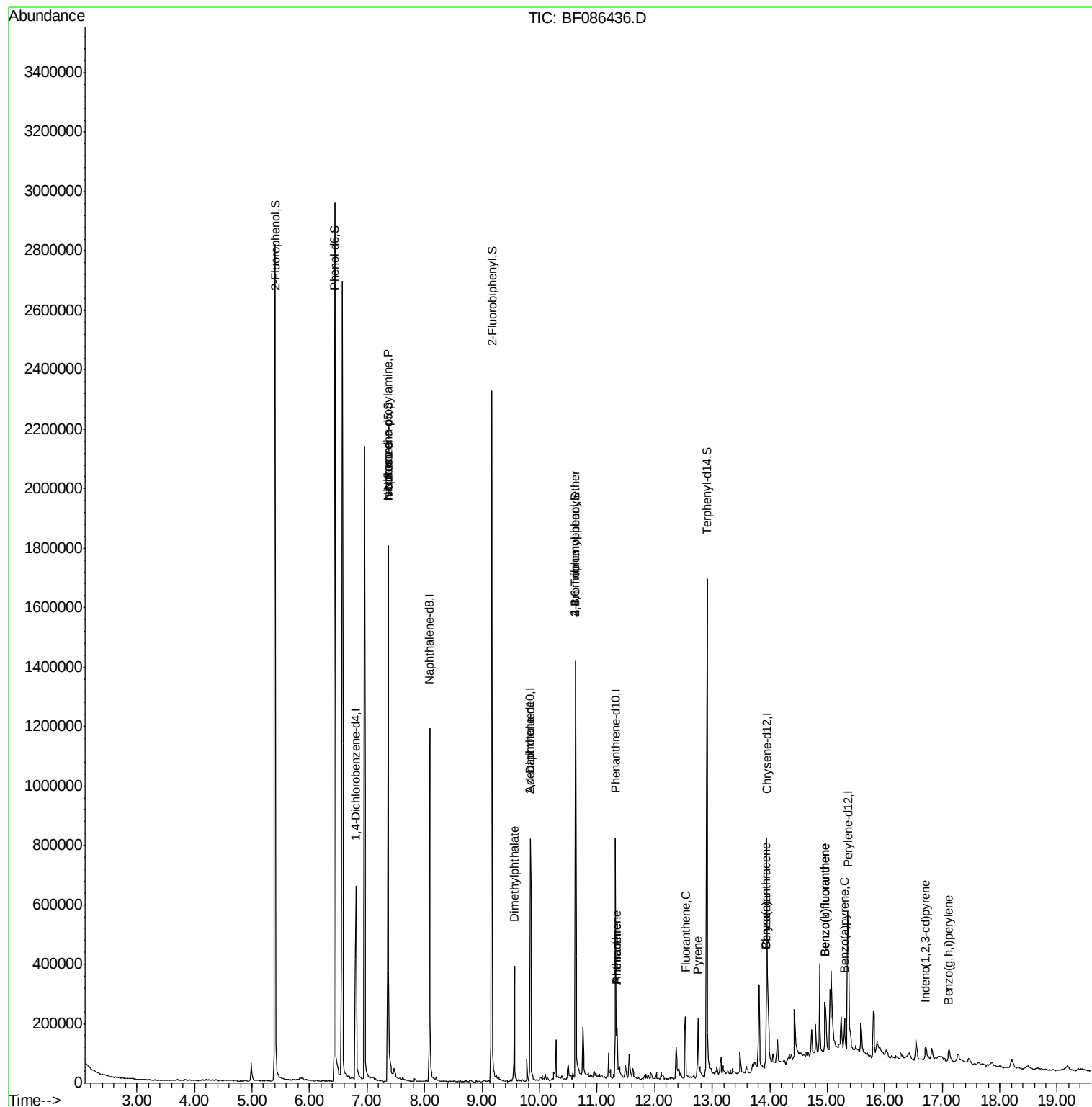
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.37	70	85262	12.55	ng	# 74
25) Isophorone	7.37	82	530979	28.45	ng	# 68
49) Dimethylphthalate	9.56	163	146648	9.22	ng	99
56) 2,4-Dinitrotoluene	9.84	165	27004	6.45	ng	# 16
66) 4-Bromophenyl-phenylether	10.62	248	10300	3.08	ng	# 1
70) Phenanthrene	11.34	178	53328	3.13	ng	100
71) Anthracene	11.34	178	53328	2.94	ng	99
74) Fluoranthene	12.53	202	121758	7.09	ng	93
77) Pyrene	12.75	202	105058	5.37	ng	97
80) Benzo(a)anthracene	13.94	228	65555	4.53	ng	96
82) Chrysene	13.94	228	65555	4.17	ng	98
85) Indeno(1,2,3-cd)pyrene	16.72	276	36806	3.16	ng	# 92
87) Benzo(b)fluoranthene	14.96	252	141653	8.96	ng	97
88) Benzo(k)fluoranthene	14.96	252	141653	8.59	ng	# 94
89) Benzo(a)pyrene	15.30	252	63898	4.28	ng	# 93
91) Benzo(g,h,i)perylene	17.12	276	36175	2.95	ng	97

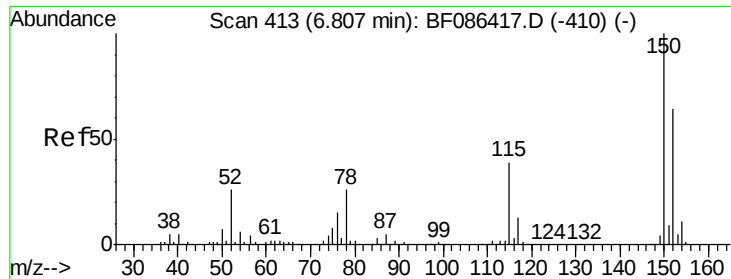
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 413

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

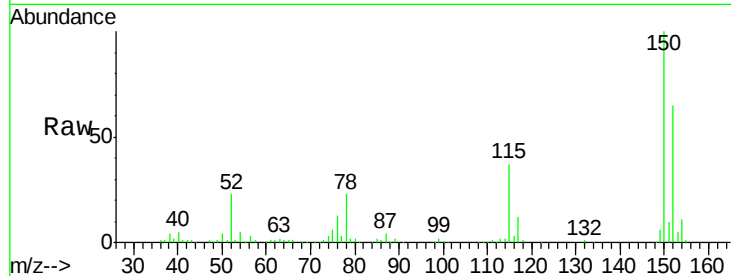
Tgt Ion:152 Resp: 126995

Ion Ratio Lower Upper

152 100

150 152.9 125.8 188.6

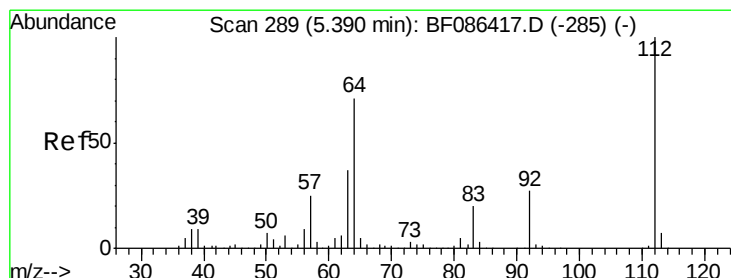
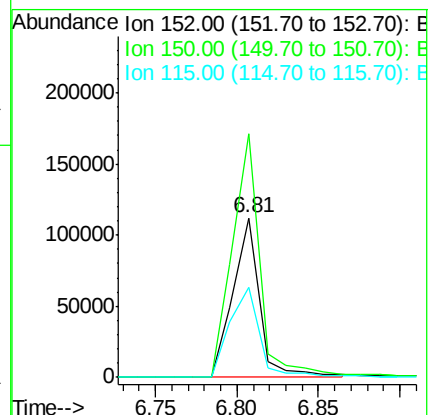
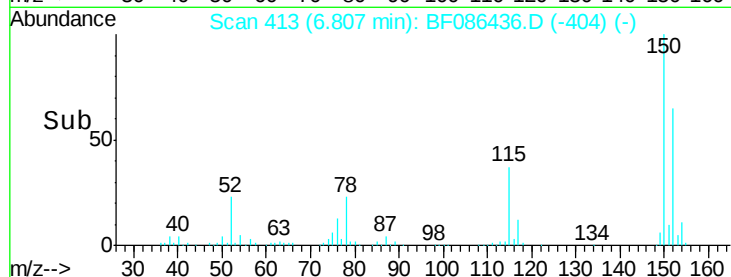
115 56.2 51.5 77.3



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: 113.00 ng

RT: 5.40 min Scan# 290

Delta R.T. 0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

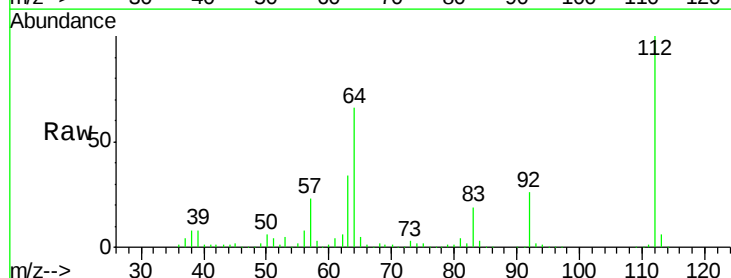
Tgt Ion:112 Resp: 831946

Ion Ratio Lower Upper

112 100

64 65.6 52.1 78.1

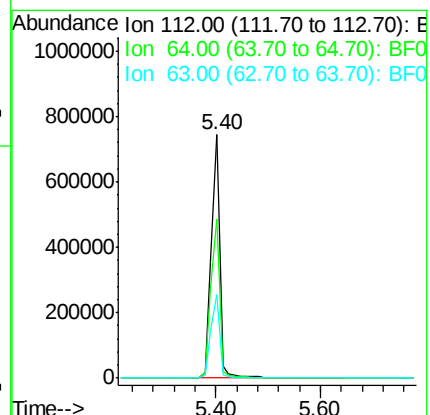
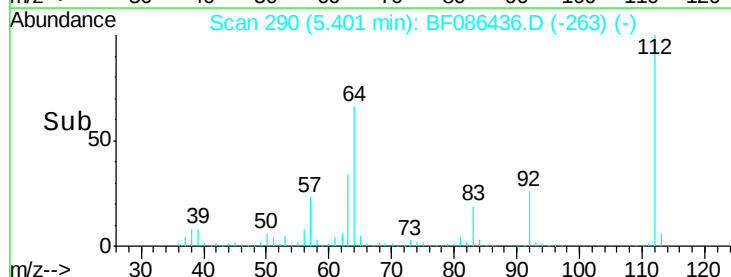
63 34.3 25.7 38.5

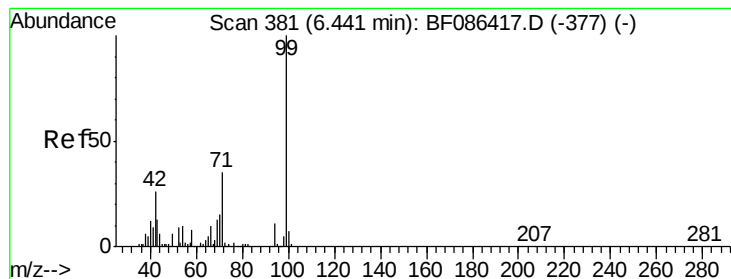


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 104.61 ng

RT: 6.44 min Scan# 381

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

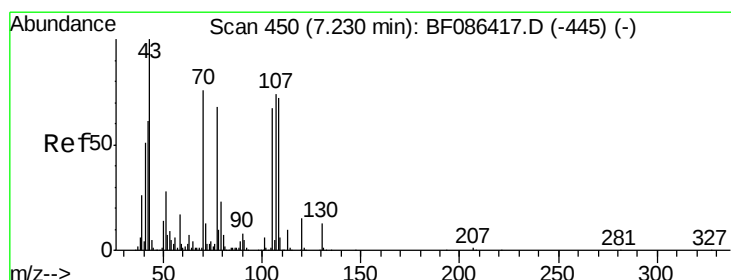
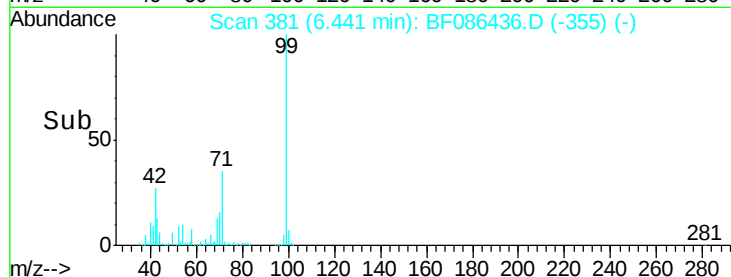
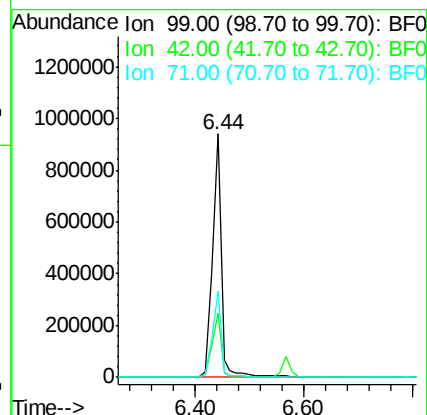
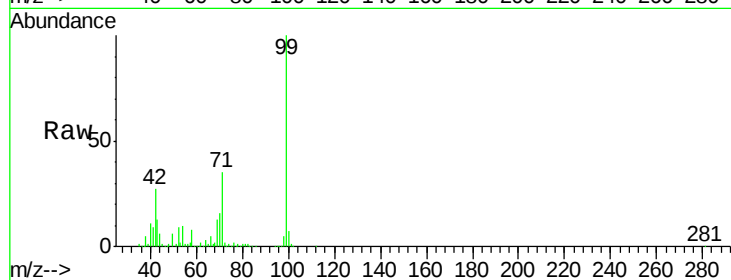
Tgt Ion: 99 Resp: 1074930

Ion Ratio Lower Upper

99 100

42 26.6 13.6 20.4#

71 35.4 24.6 36.8



#19

n-Nitroso-di-n-propylamine

Concen: 12.55 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.14 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Tgt Ion: 70 Resp: 85262

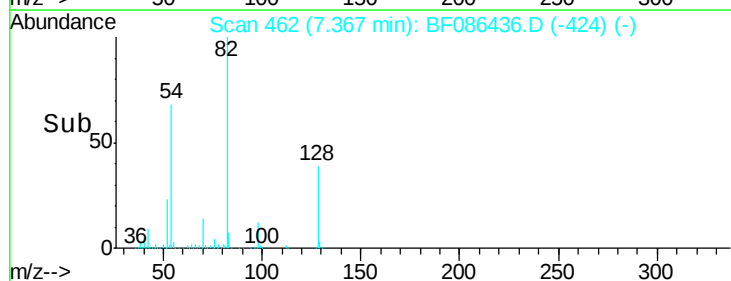
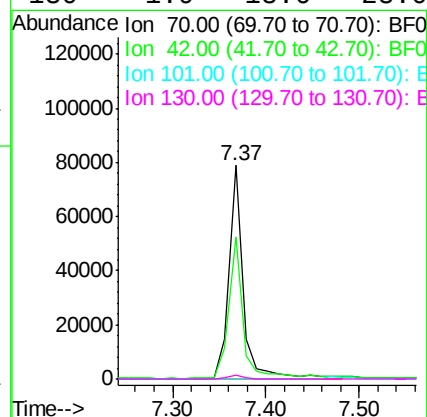
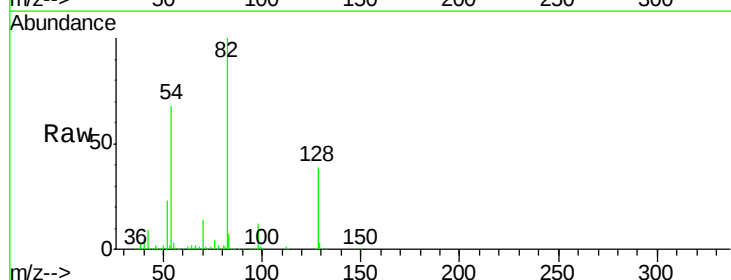
Ion Ratio Lower Upper

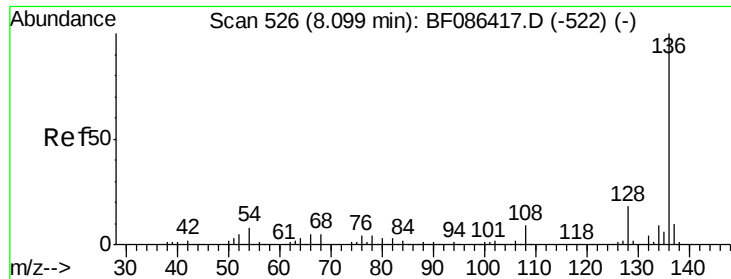
70 100

42 66.3 43.1 64.7#

101 0.0 8.1 12.1#

130 1.9 18.6 28.0#

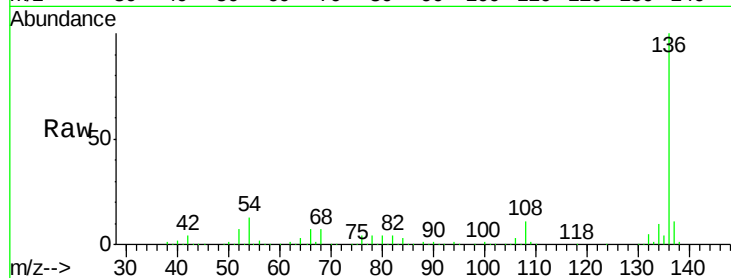




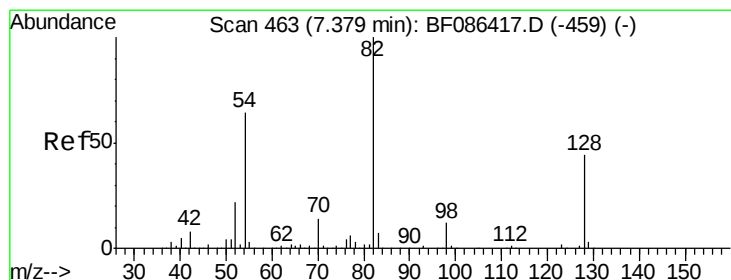
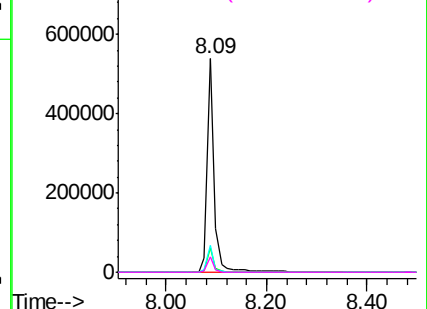
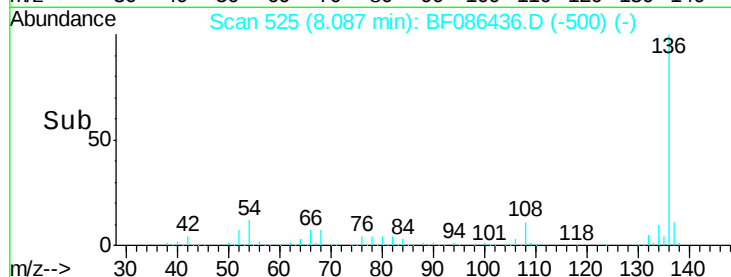
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.01 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Instrument :
BNA_F
ClientSampleId :
TH-B4(0-5)-C

Tgt Ion:	136	Resp:	522644
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.8	13.2
54	12.6	5.0	7.4#
68	7.5	4.4	6.6#

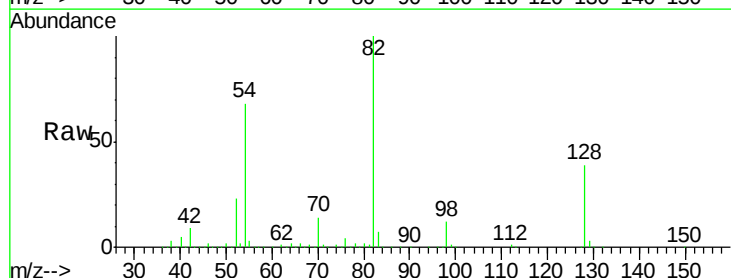


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

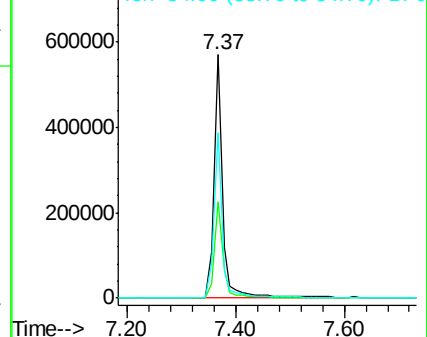
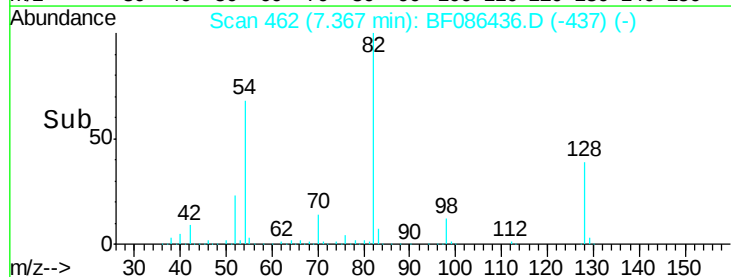


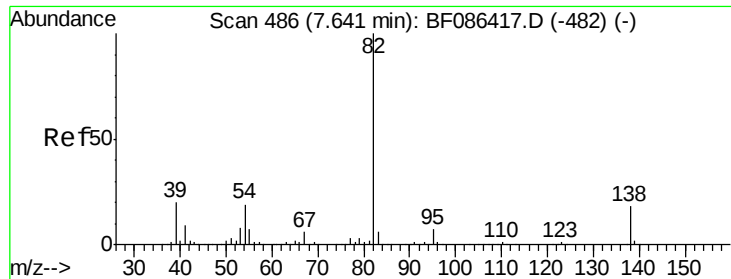
#23
Nitrobenzene-d5
Concen: 65.83 ng
RT: 7.37 min Scan# 462
Delta R.T. -0.01 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Tgt Ion:	82	Resp:	638321
Ion	Ratio	Lower	Upper
82	100		
128	39.4	40.6	61.0#
54	68.1	38.1	57.1#



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





#25

Isophorone

Concen: 28.45 ng

RT: 7.37 min Scan# 462

Delta R.T. -0.27 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

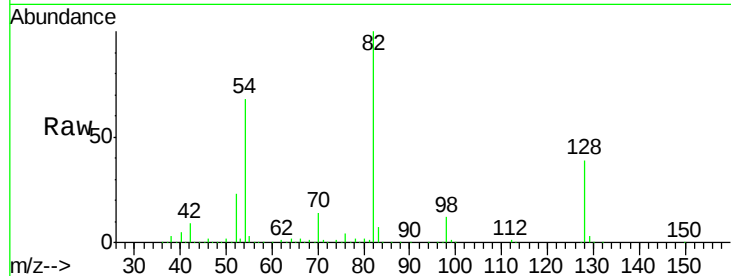
Tgt Ion: 82 Resp: 530979

Ion Ratio Lower Upper

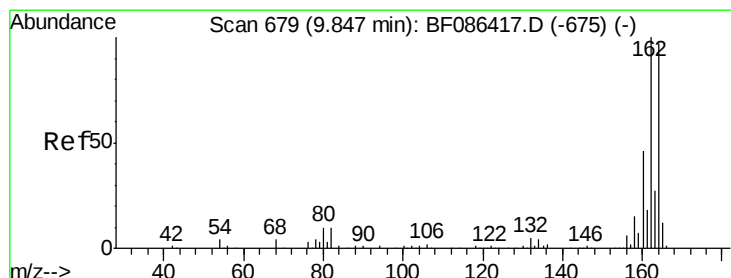
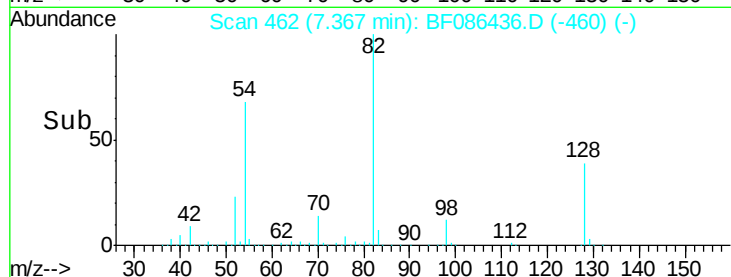
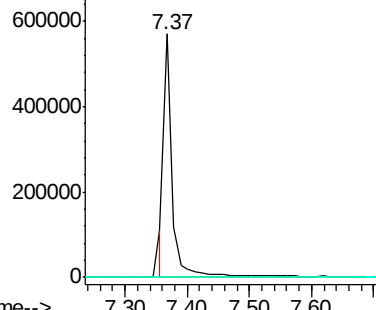
82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

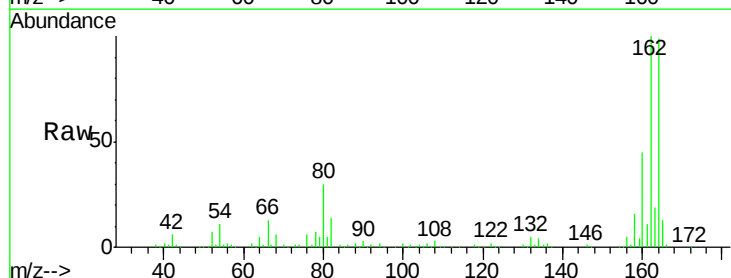
Tgt Ion: 164 Resp: 211240

Ion Ratio Lower Upper

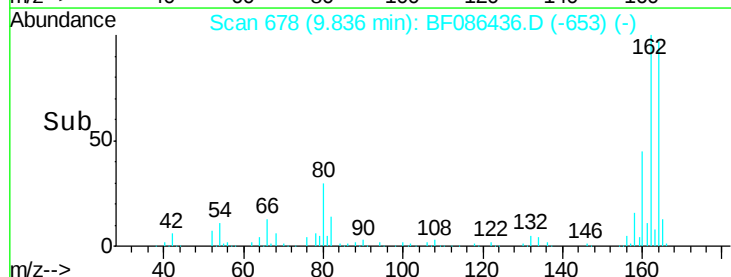
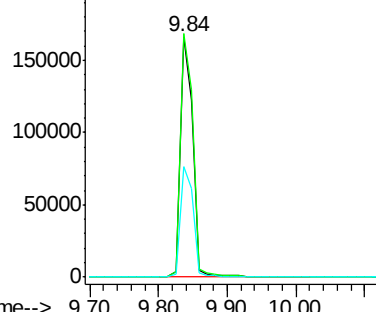
164 100

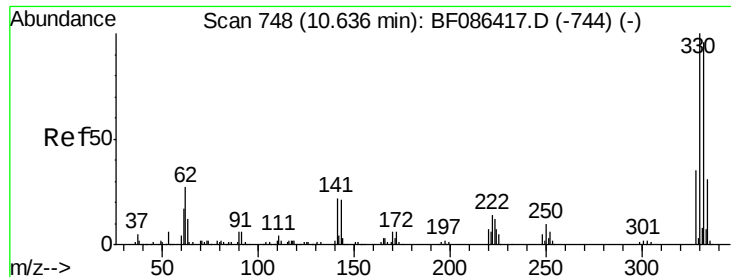
162 101.4 82.8 124.2

160 46.1 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

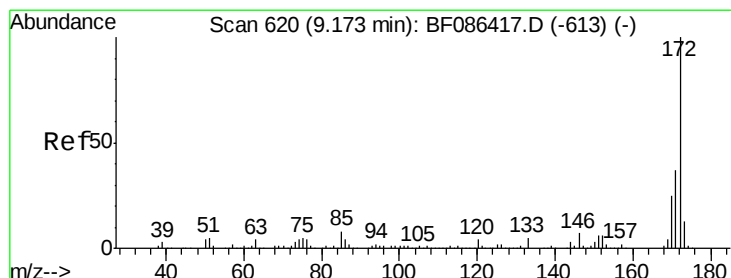
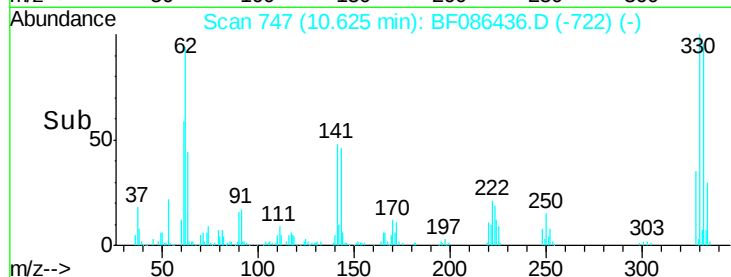
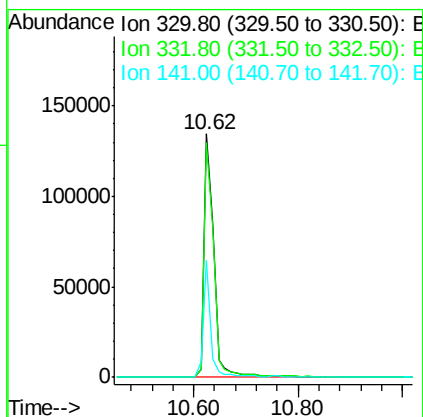
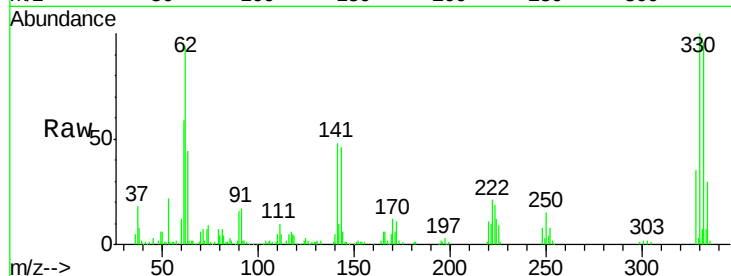




#41
 2,4,6-Tribromophenol
 Concen: 79.69 ng
 RT: 10.62 min Scan# 747
 Delta R.T. -0.01 min
 Lab File: BF086436.D
 Acq: 27 Apr 2016 21:03

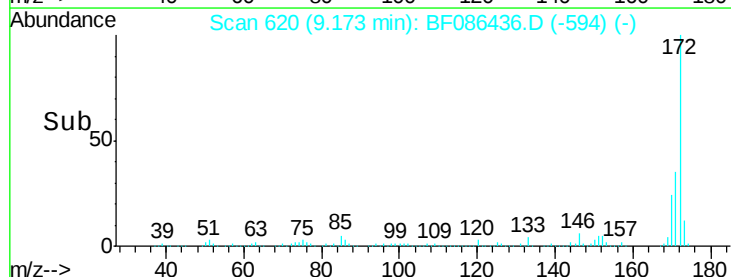
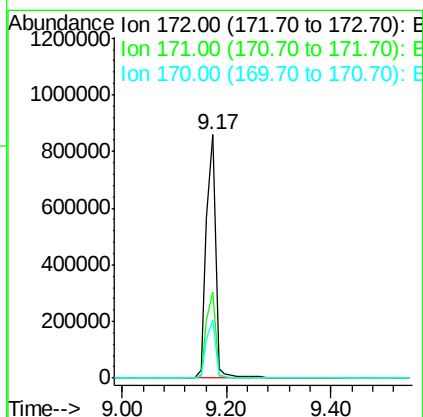
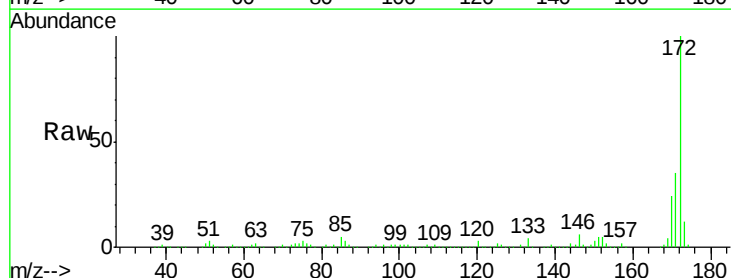
Instrument :
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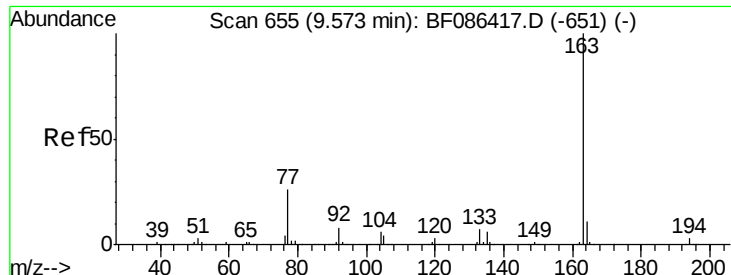
Tgt Ion:330 Resp: 177514
 Ion Ratio Lower Upper
 330 100
 332 96.7 79.0 118.4
 141 36.2 31.2 46.8



#44
 2-Fluorobiphenyl
 Concen: 91.23 ng
 RT: 9.17 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: BF086436.D
 Acq: 27 Apr 2016 21:03

Tgt Ion:172 Resp: 1084192
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.0 43.6
 170 23.9 19.8 29.8

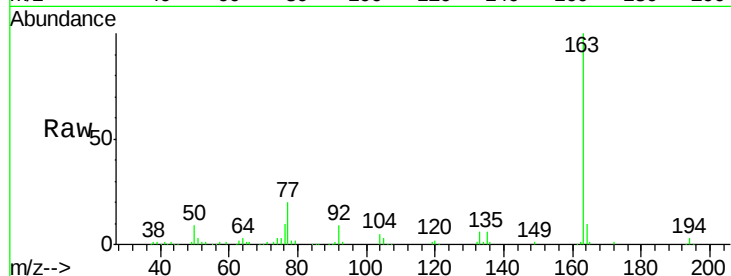




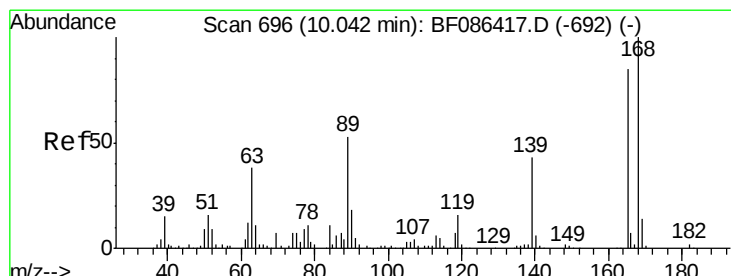
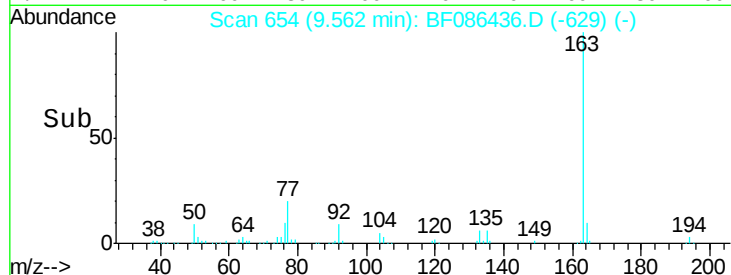
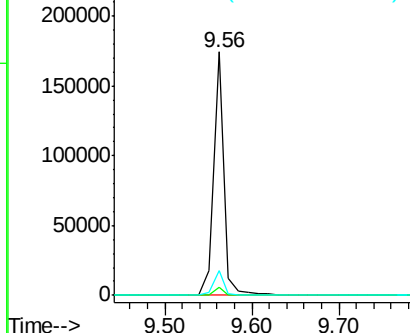
#49
Dimethylphthalate
Concen: 9.22 ng
RT: 9.56 min Scan# 654
Delta R.T. -0.01 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Instrument :
BNA_F
ClientSampleId :
TH-B4(0-5)-C

Tgt Ion:163 Resp: 146648
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 10.0 8.2 12.4

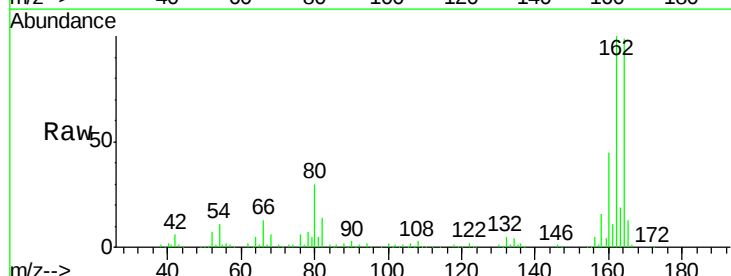


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

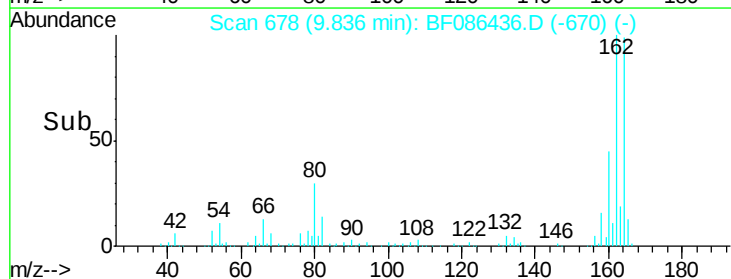
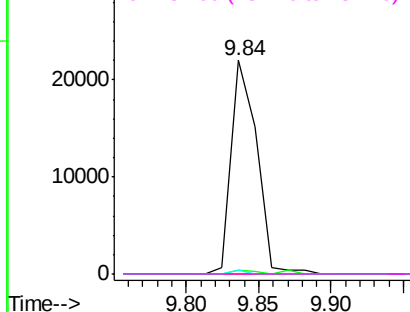


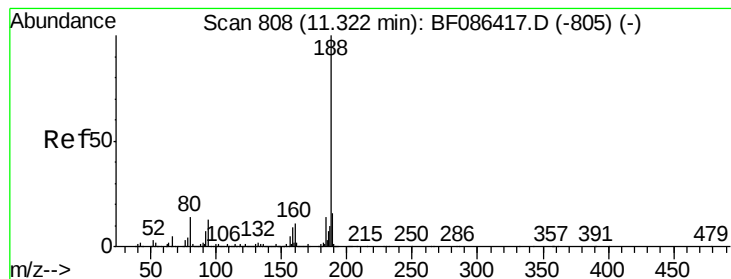
#56
2,4-Dinitrotoluene
Concen: 6.45 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.21 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Tgt Ion:165 Resp: 27004
Ion Ratio Lower Upper
165 100
63 1.9 44.3 66.5#
89 1.7 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: 11.32 min Scan# 808

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

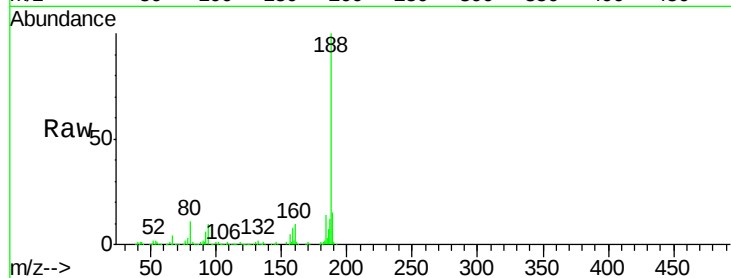
Tgt Ion:188 Resp: 324339

Ion Ratio Lower Upper

188 100

94 10.3 6.8 10.2#

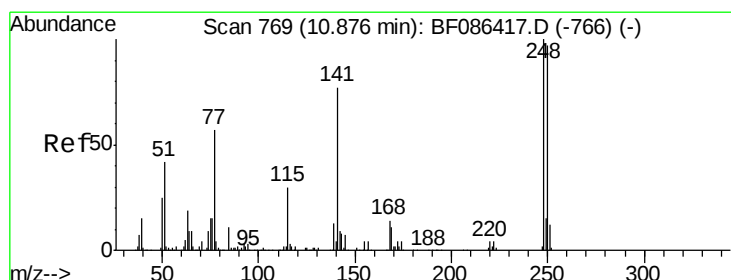
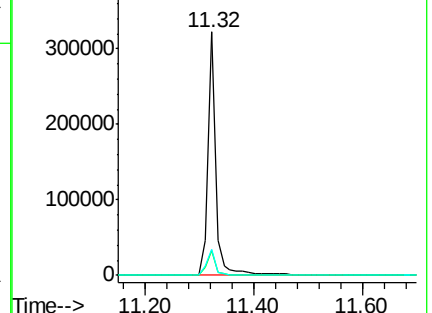
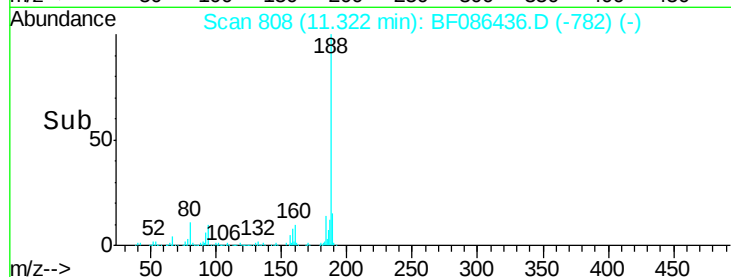
80 10.7 7.1 10.7



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: 3.08 ng

RT: 10.62 min Scan# 747

Delta R.T. -0.25 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

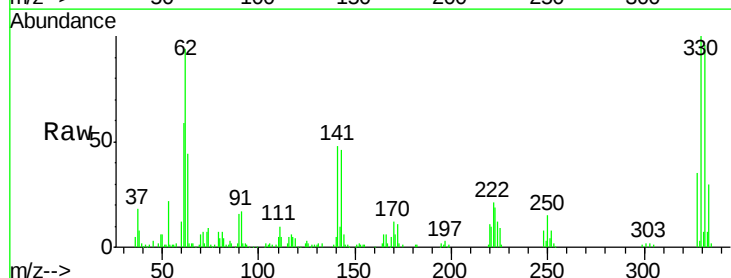
Tgt Ion:248 Resp: 10300

Ion Ratio Lower Upper

248 100

250 200.7 78.6 117.8#

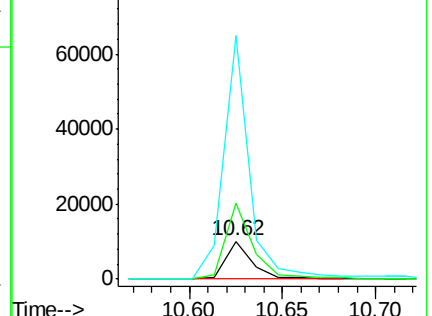
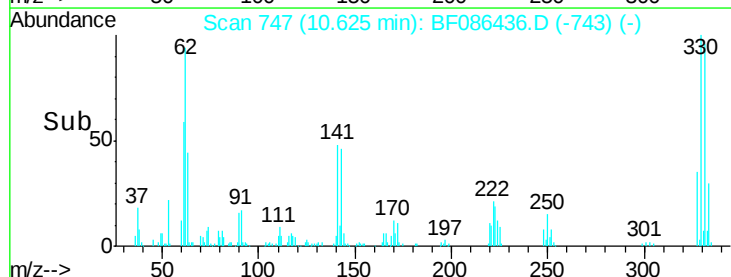
141 643.6 76.0 114.0#

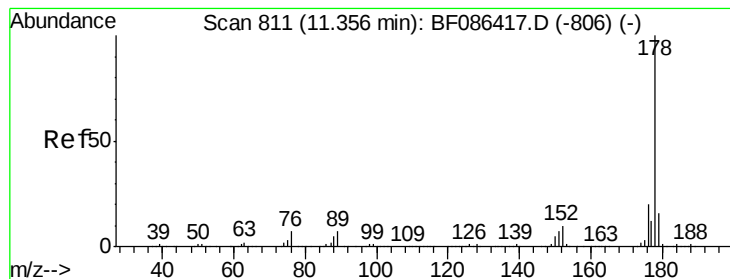


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 3.13 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

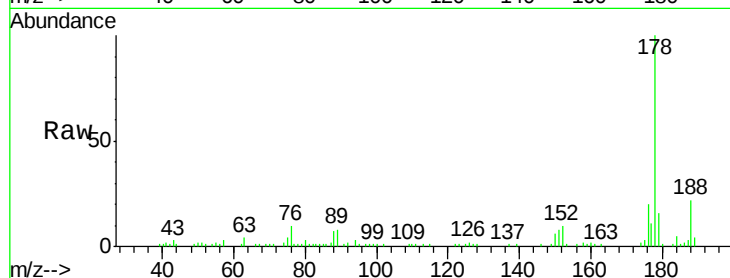
Tgt Ion:178 Resp: 53328

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

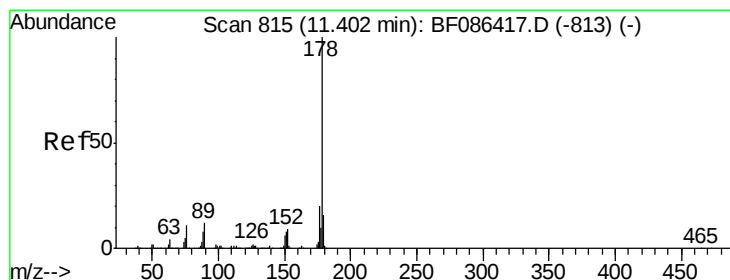
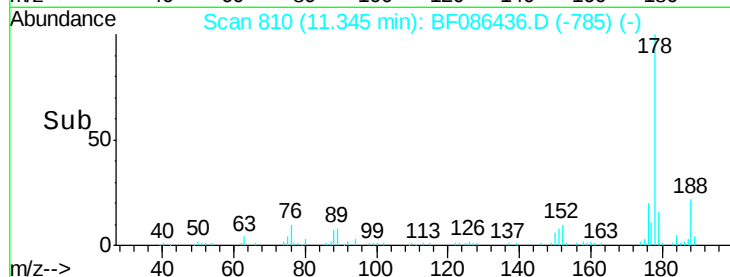
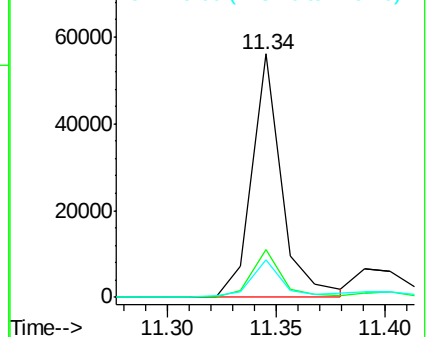
179 15.5 12.6 18.8



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: 2.94 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.06 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

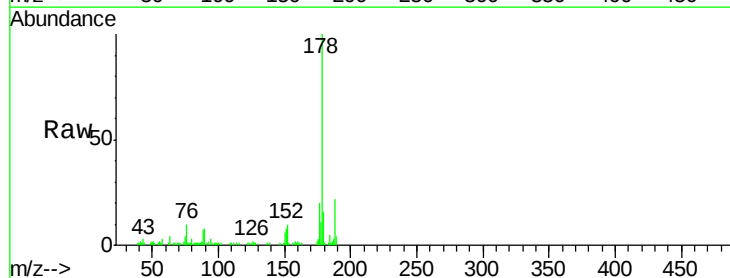
Tgt Ion:178 Resp: 53328

Ion Ratio Lower Upper

178 100

176 19.8 15.6 23.4

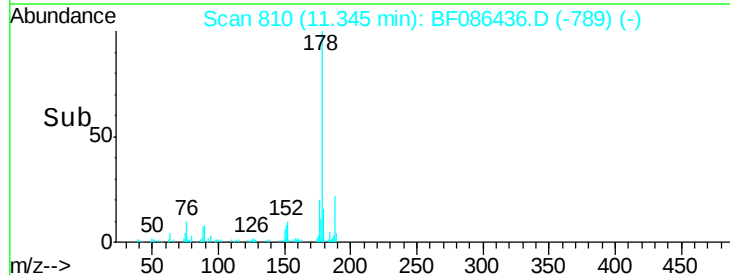
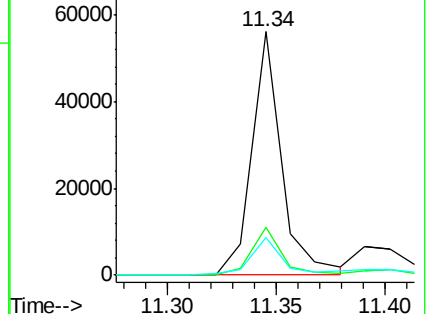
179 15.5 12.7 19.1

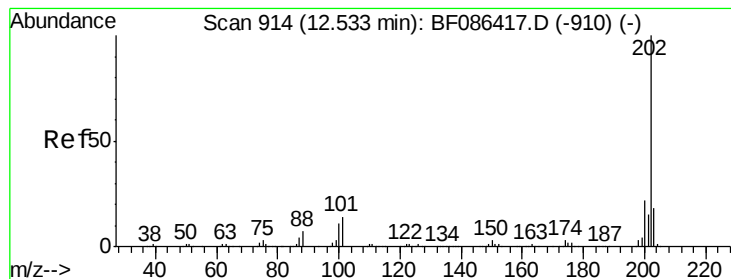


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.09 ng

RT: 12.53 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

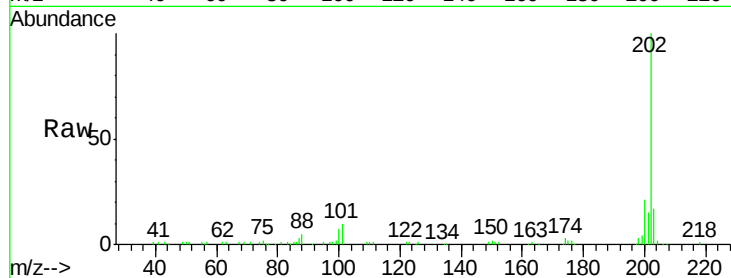
Tgt Ion:202 Resp: 121758

Ion Ratio Lower Upper

202 100

101 9.6 0.0 35.4

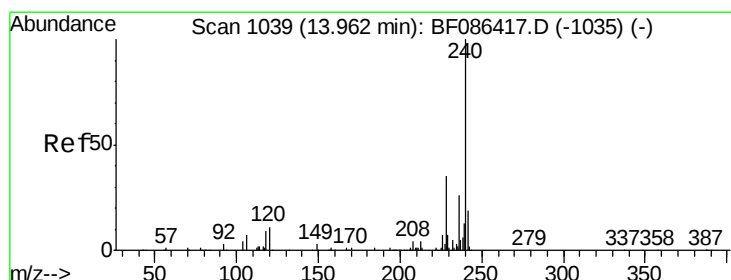
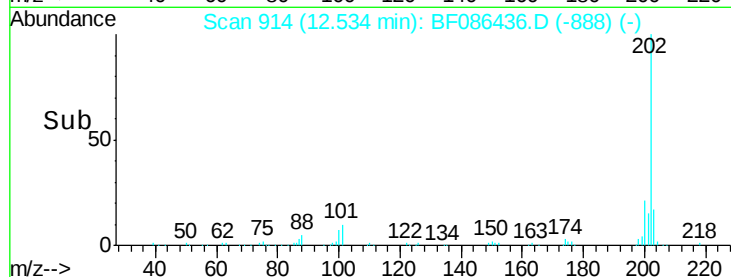
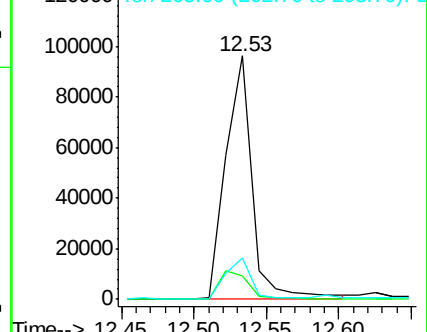
203 17.2 0.0 38.1



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: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

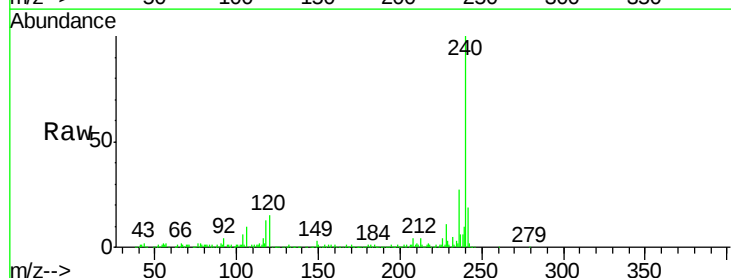
Tgt Ion:240 Resp: 271436

Ion Ratio Lower Upper

240 100

120 14.9 11.2 16.8

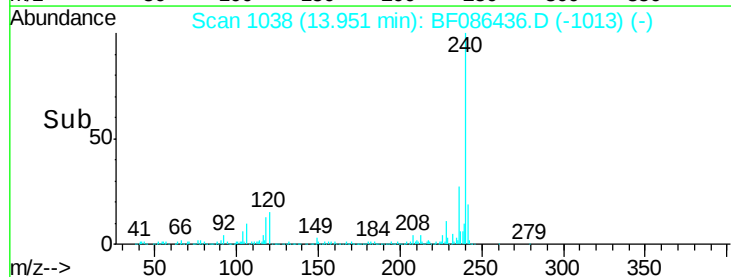
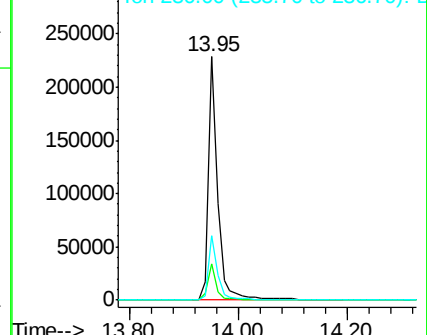
236 26.7 21.2 31.8

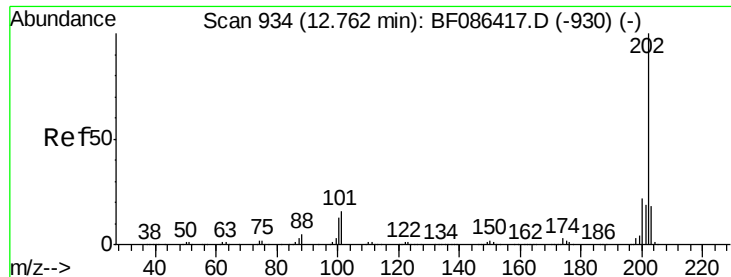


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 5.37 ng

RT: 12.75 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

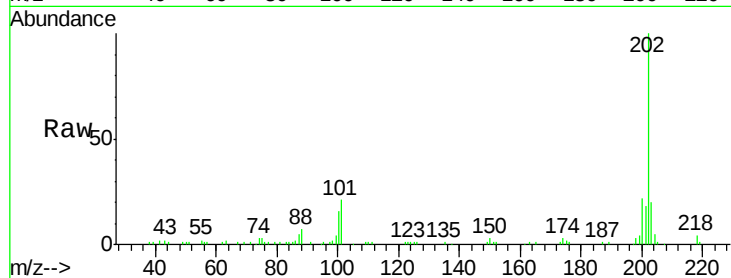
Tgt Ion:202 Resp: 105058

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

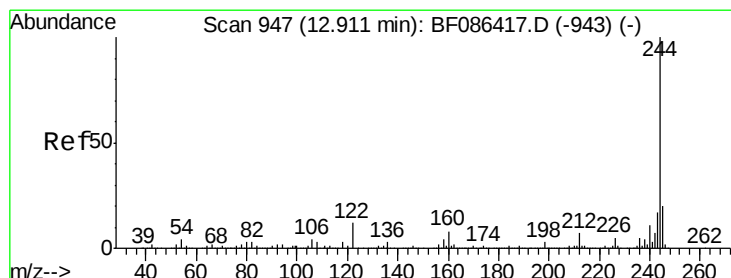
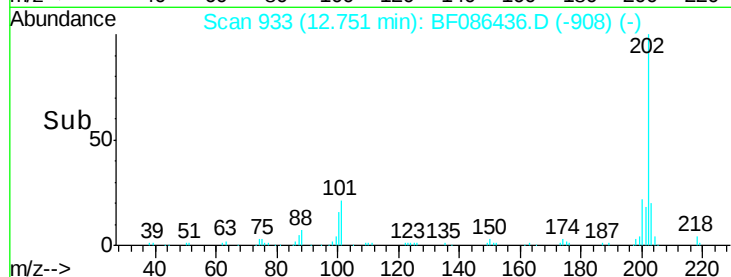
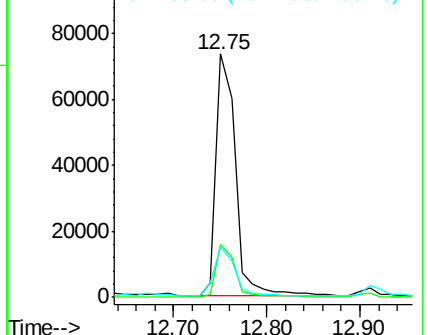
203 20.4 14.2 21.4



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: 53.56 ng

RT: 12.91 min Scan# 947

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

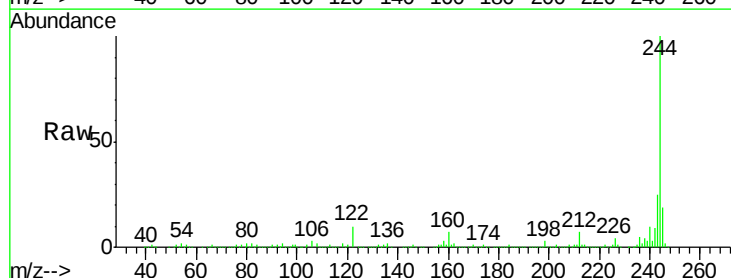
Tgt Ion:244 Resp: 659927

Ion Ratio Lower Upper

244 100

212 6.9 6.2 9.2

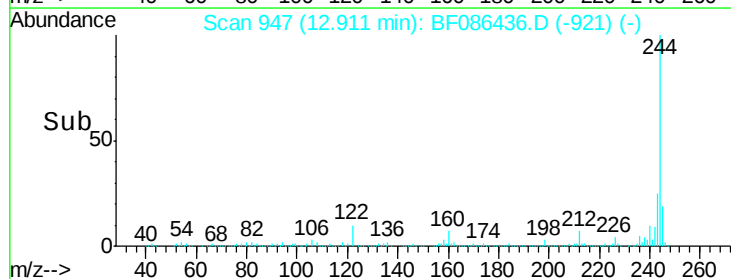
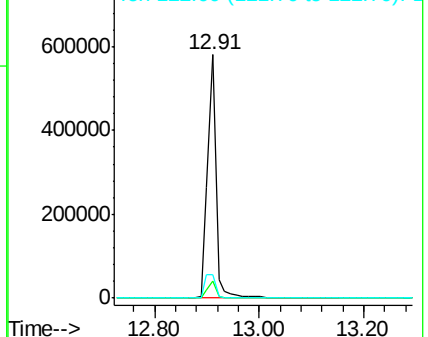
122 9.7 12.0 18.0#

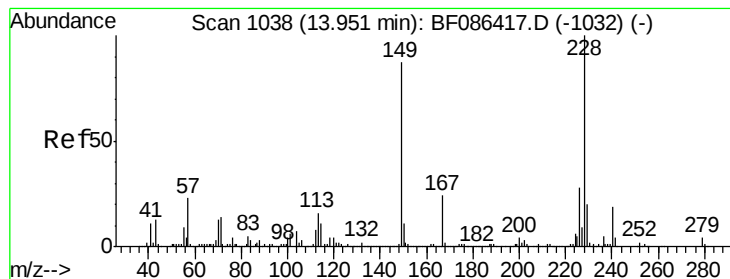


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.53 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

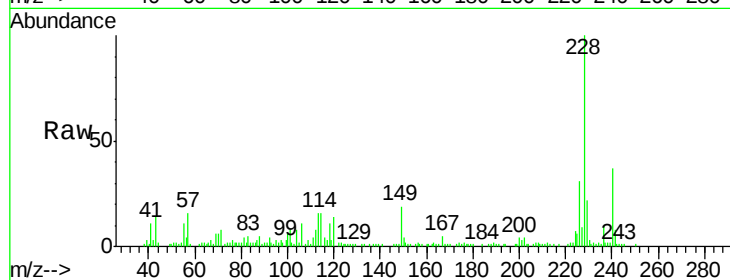
Tgt Ion:228 Resp: 65555

Ion Ratio Lower Upper

228 100

226 30.7 22.5 33.7

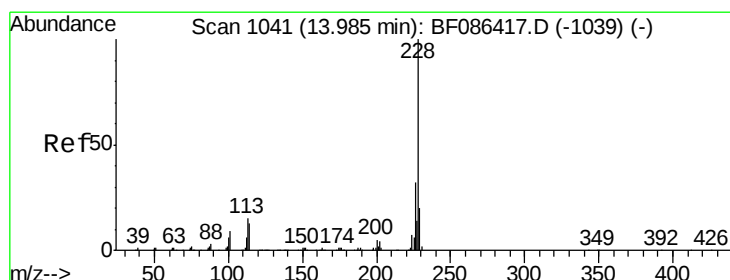
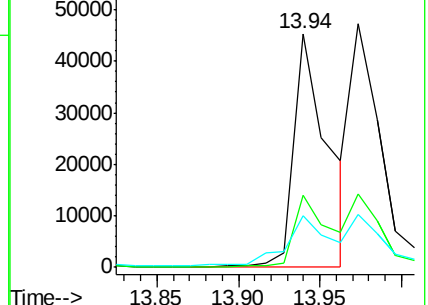
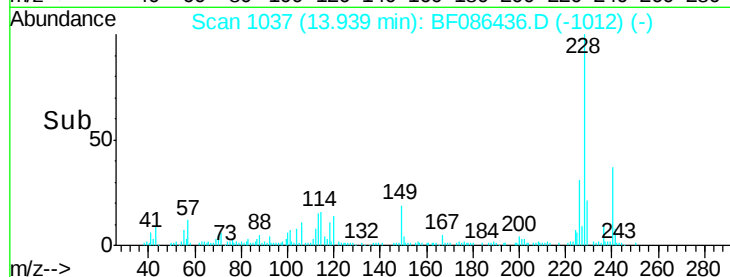
229 21.9 16.6 25.0



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: 4.17 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.05 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

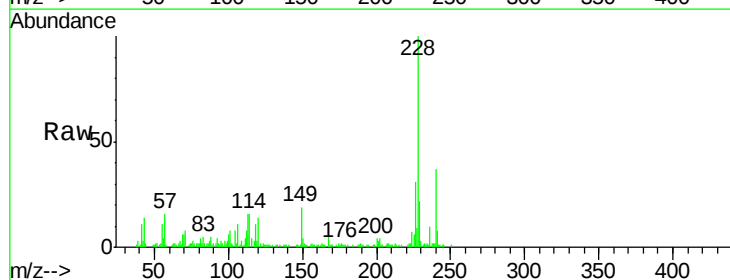
Tgt Ion:228 Resp: 65555

Ion Ratio Lower Upper

228 100

226 30.7 24.4 36.6

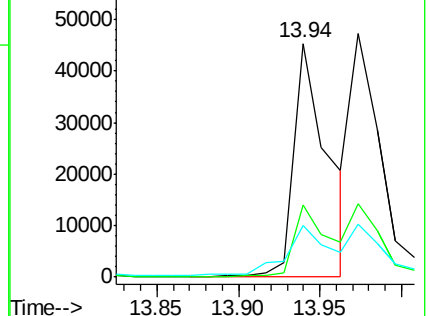
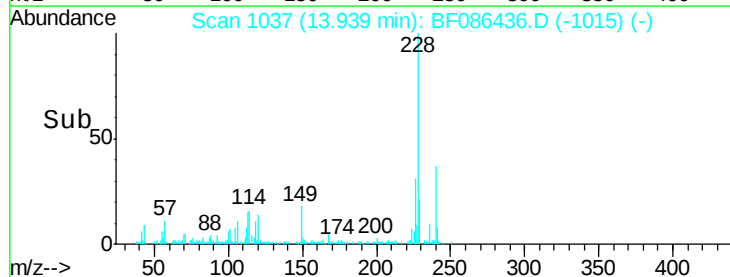
229 21.9 15.8 23.8

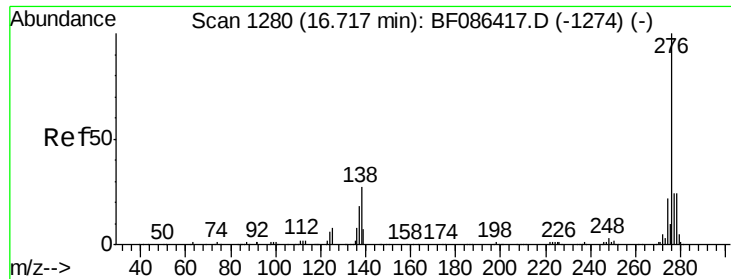


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

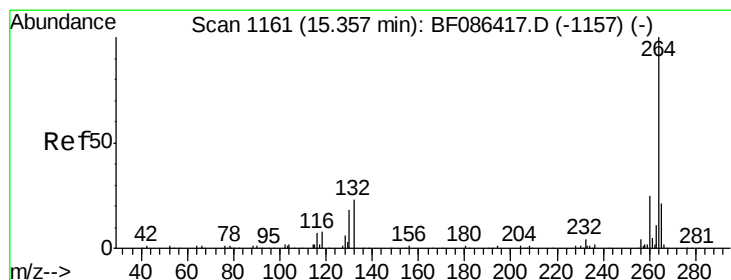
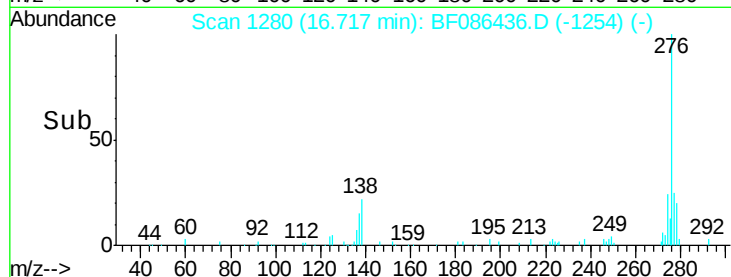
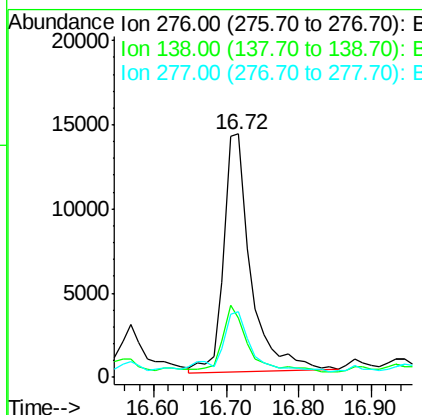
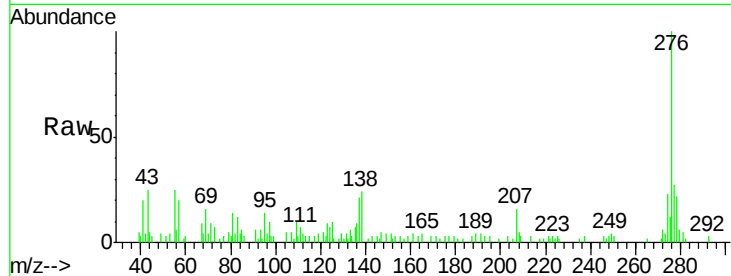




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.16 ng
 RT: 16.72 min Scan# 1280
 Delta R.T. 0.00 min
 Lab File: BF086436.D
 Acq: 27 Apr 2016 21:03

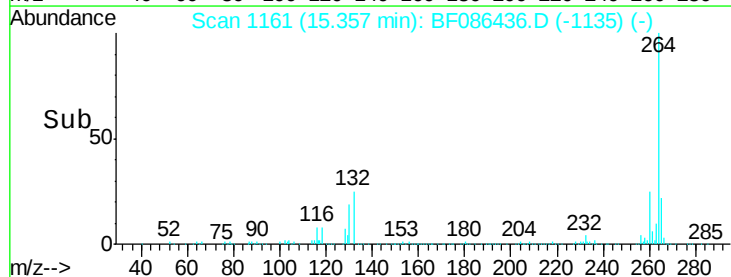
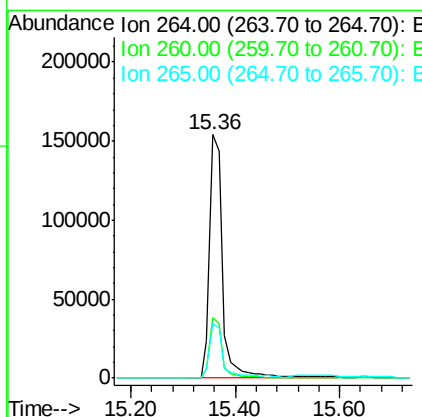
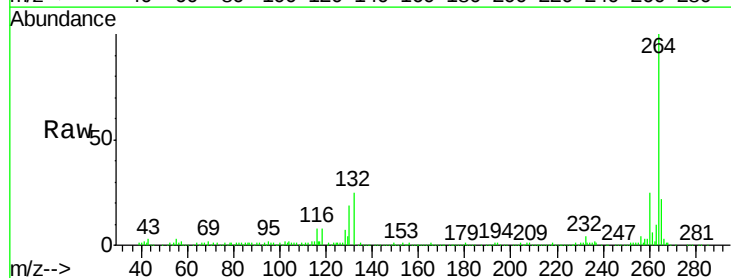
Instrument :
 BNA_F
 ClientSampleId :
 TH-B4(0-5)-C

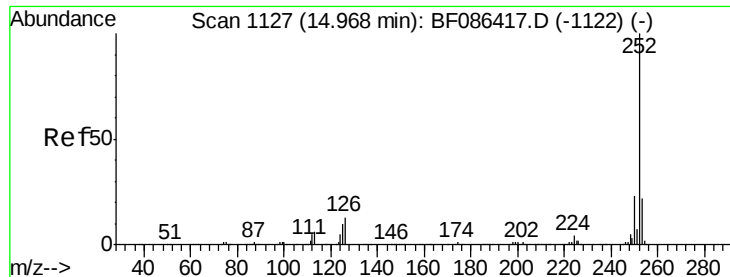
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.9	25.6	38.4
277	31.5	20.5	30.7#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: BF086436.D
 Acq: 27 Apr 2016 21:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	22.3	17.3	25.9

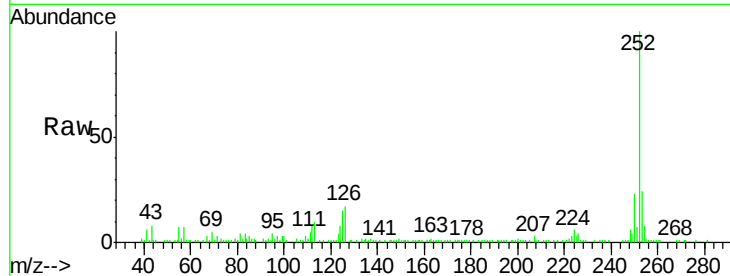




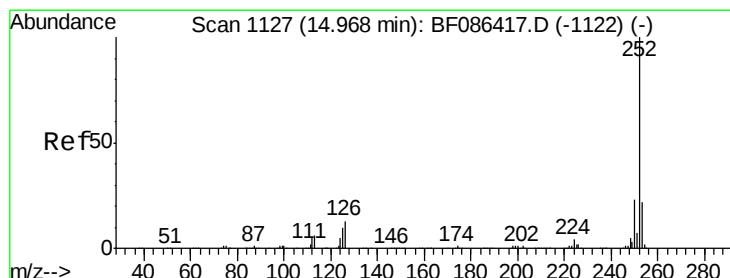
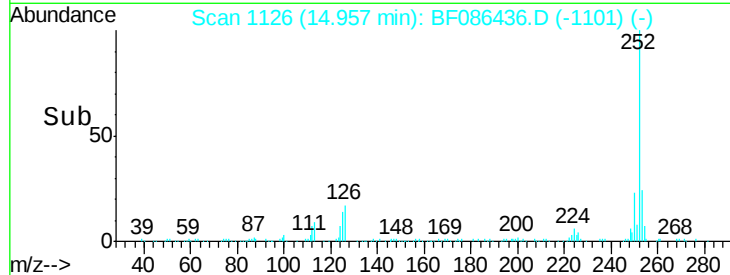
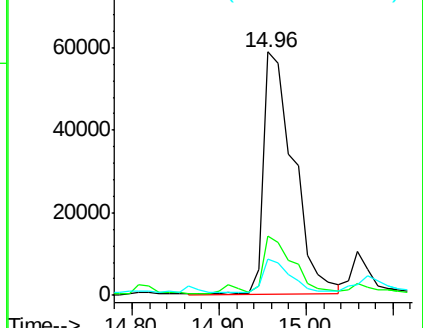
#87
Benzo(b)fluoranthene
Concen: 8.96 ng
RT: 14.96 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Instrument :
BNA_F
ClientSampleId :
TH-B4(0-5)-C

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.6
125	15.1	11.4	17.0

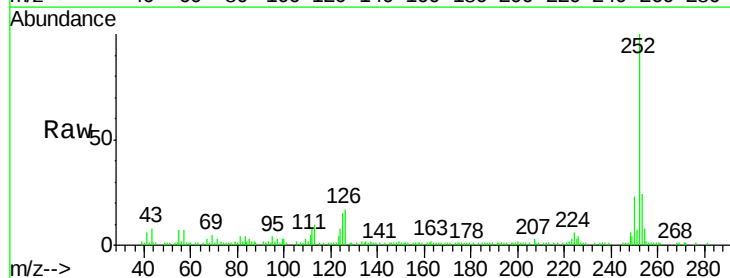


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

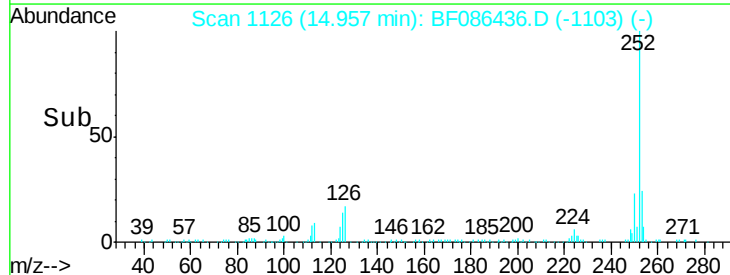
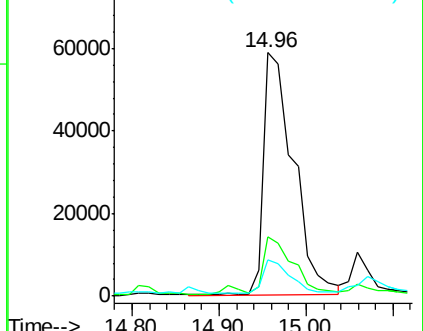


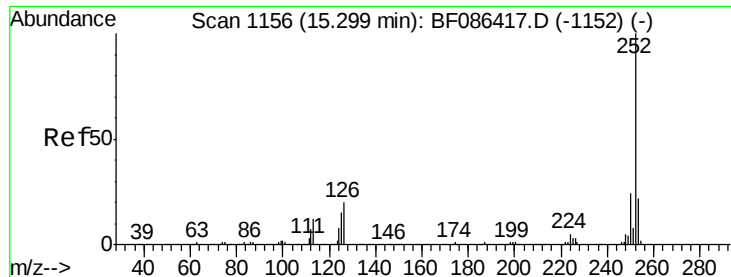
#88
Benzo(k)fluoranthene
Concen: 8.59 ng
RT: 14.96 min Scan# 1126
Delta R.T. -0.03 min
Lab File: BF086436.D
Acq: 27 Apr 2016 21:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.6
125	15.1	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: 4.28 ng

RT: 15.30 min Scan# 1156

Delta R.T. 0.00 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Instrument :

BNA_F

ClientSampleId :

TH-B4(0-5)-C

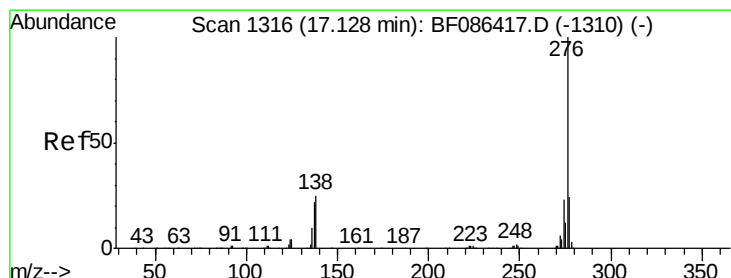
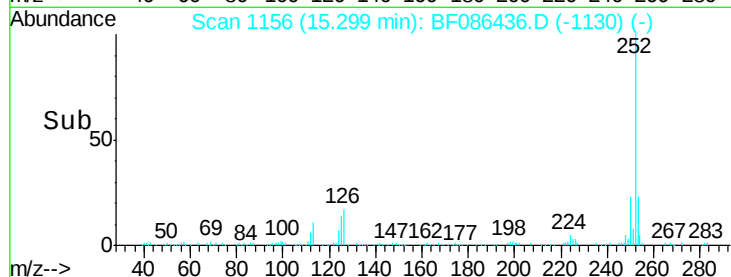
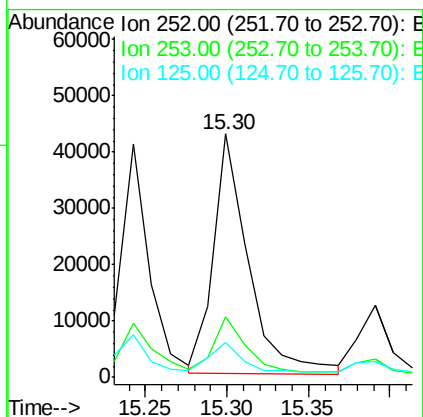
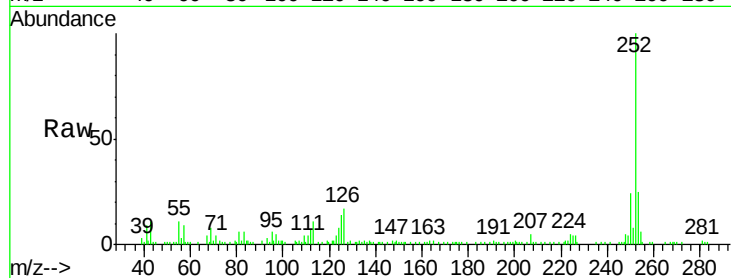
Tgt Ion:252 Resp: 63898

Ion Ratio Lower Upper

252 100

253 24.7 17.2 25.8

125 14.3 9.0 13.6#



#91

Benzo(g,h,i)perylene

Concen: 2.95 ng

RT: 17.12 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF086436.D

Acq: 27 Apr 2016 21:03

Tgt Ion:276 Resp: 36175

Ion Ratio Lower Upper

276 100

277 24.6 19.6 29.4

138 26.4 23.6 35.4

