

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092116\
 Data File : BF090173.D
 Acq On : 21 Sep 2016 21:43
 Operator : UM/SJ
 Sample : H4856-12
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-4

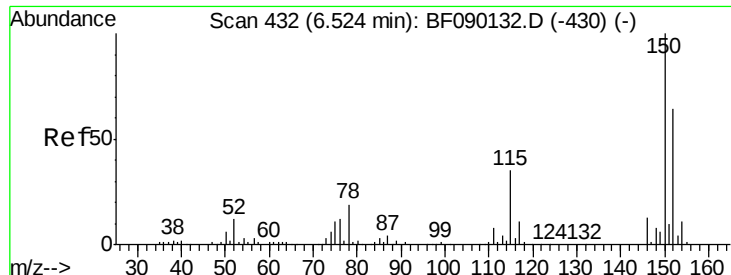
Quant Time: Sep 22 01:56:10 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	149247	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	523355	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	244556	20.00	ng	-0.02
63) Phenanthrene-d10	11.00	188	432899	20.00	ng	-0.02
75) Chrysene-d12	13.61	240	277255	20.00	ng	-0.02
86) Perylene-d12	14.95	264	313013	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	1027961	112.27	ng	0.00
7) Phenol-d6	6.16	99	1517896	134.23	ng	-0.01
23) Nitrobenzene-d5	7.07	82	722037	79.98	ng	-0.02
41) 2,4,6-Tribromophenol	10.32	330	247583	118.00	ng	-0.02
44) 2-Fluorobiphenyl	8.88	172	1289181	103.49	ng	-0.01
78) Terphenyl-d14	12.59	244	954785	87.43	ng	-0.01

Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.07	70	80643	12.14	ng	# 80
48) Acenaphthylene	9.39	152	105052	5.01	ng	98
49) Dimethylphthalate	9.28	163	231521	14.86	ng	99
70) Phenanthrene	11.03	178	91629	4.53	ng	97
71) Anthracene	11.07	178	90122	4.24	ng	99
73) Di-n-butylphthalate	11.59	149	70978	2.72	ng	100
74) Fluoranthene	12.20	202	492323	22.65	ng	93
77) Pyrene	12.42	202	478720	25.23	ng	98
79) Butylbenzylphthalate	13.07	149	173027	18.64	ng	97
80) Benzo(a)anthracene	13.60	228	606513	40.66	ng	# 84
82) Chrysene	13.60	228	606513	41.74	ng	# 88
83) Bis(2-ethylhexyl)phthalate	13.63	149	235160	19.80	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.10	276	339000	28.86	ng	92
87) Benzo(b)fluoranthene	14.60	252	796553	45.96	ng	98
88) Benzo(k)fluoranthene	14.60	252	796553	48.97	ng	# 96
89) Benzo(a)pyrene	14.89	252	368489	22.60	ng	# 93
90) Dibenzo(a,h)anthracene	16.11	278	86047	6.76	ng	# 91
91) Benzo(g,h,i)perylene	16.45	276	298995	24.01	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.50 min Scan# 430

Delta R.T. -0.02 min

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BNA_F

ClientSampleId :

SS-4

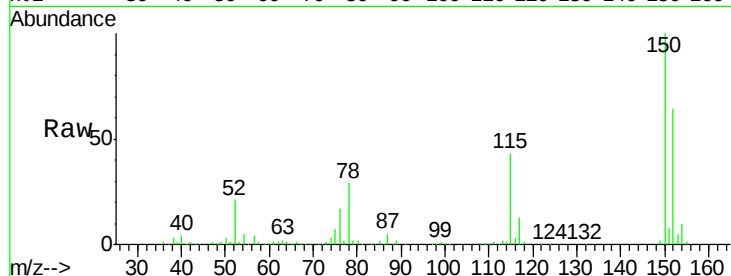
Tgt Ion:152 Resp: 149247

Ion Ratio Lower Upper

152 100

150 157.5 128.9 193.3

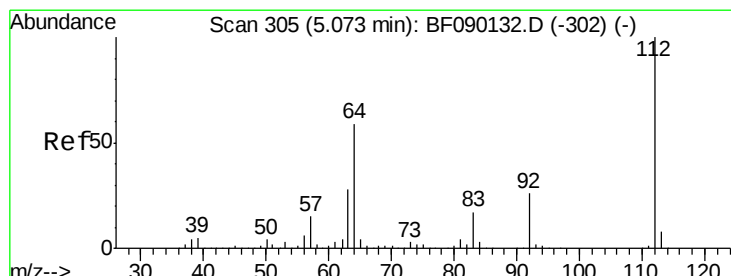
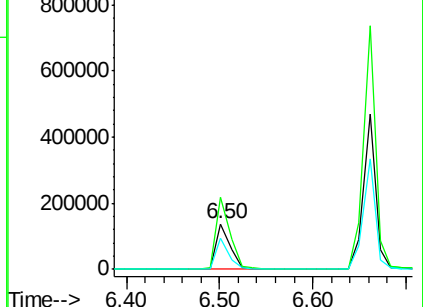
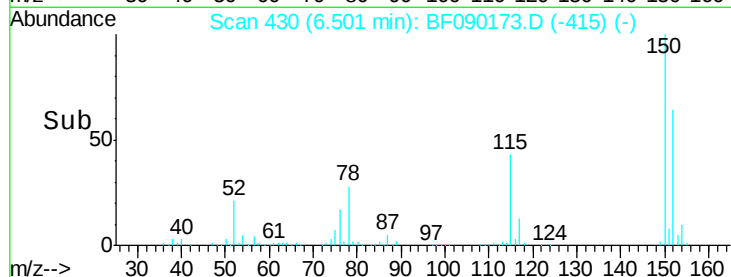
115 67.5 55.5 83.3



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: 112.27 ng

RT: 5.07 min Scan# 305

Delta R.T. 0.00 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

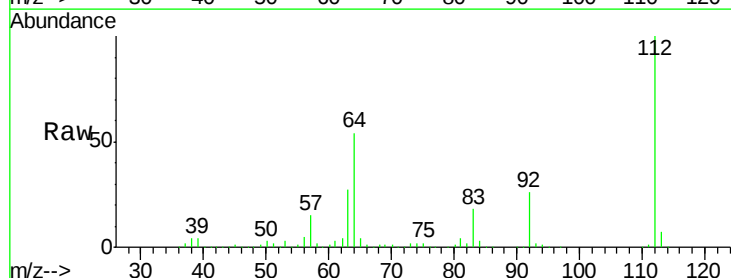
Tgt Ion:112 Resp: 1027961

Ion Ratio Lower Upper

112 100

64 54.4 39.8 59.6

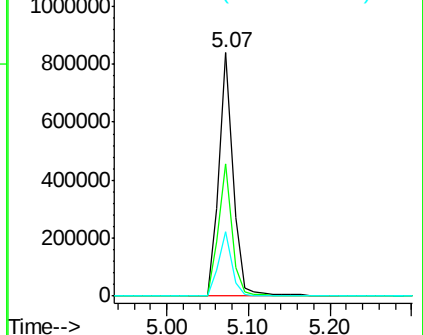
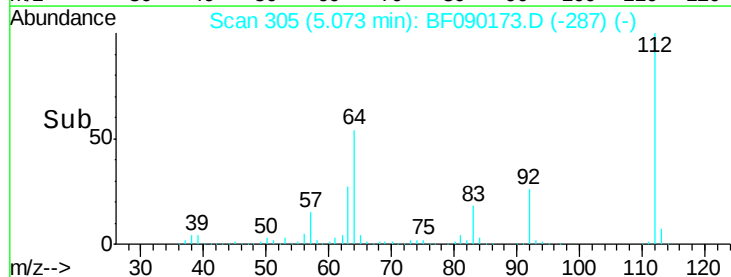
63 26.7 18.9 28.3

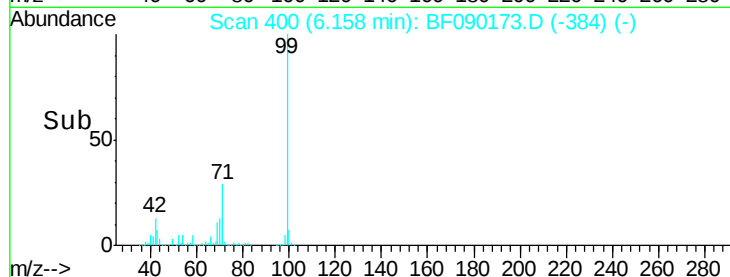
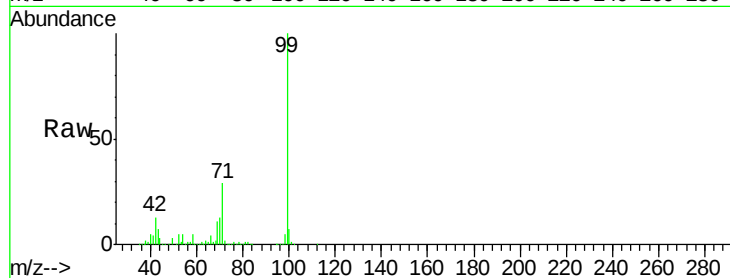


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 134.23 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

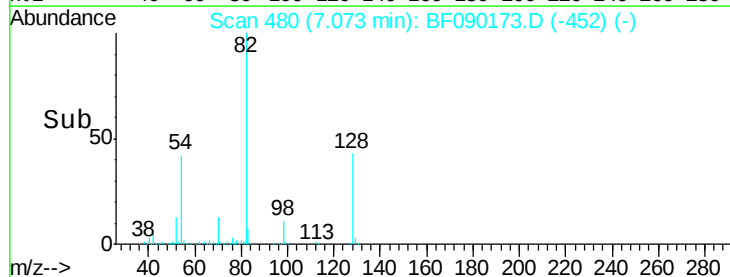
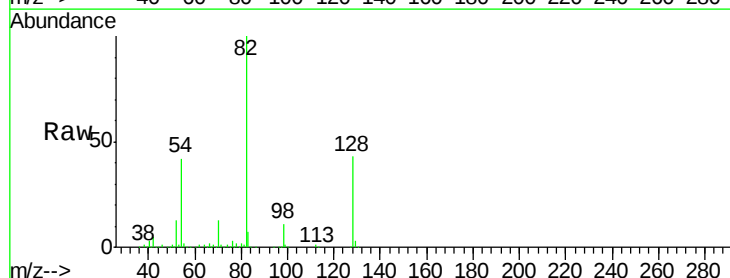
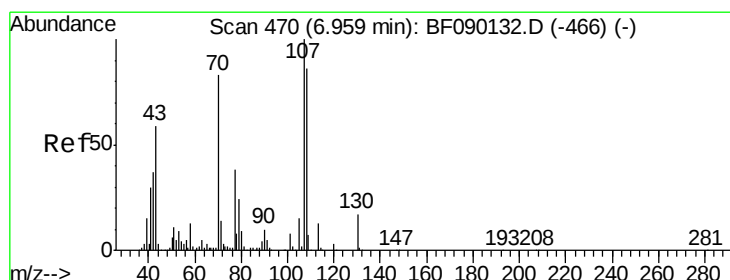
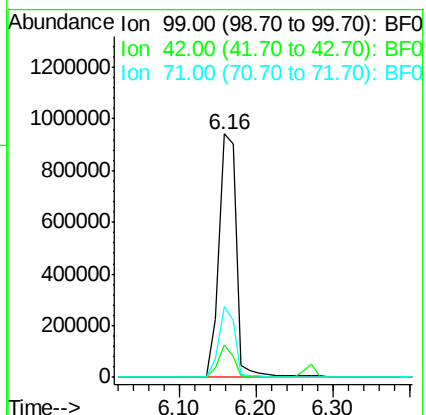
Tgt Ion: 99 Resp: 1517896

Ion Ratio Lower Upper

99 100

42 13.2 10.6 15.8

71 29.3 23.0 34.6



#19

n-Nitroso-di-n-propylamine

Concen: 12.14 ng

RT: 7.07 min Scan# 480

Delta R.T. 0.11 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Tgt Ion: 70 Resp: 80643

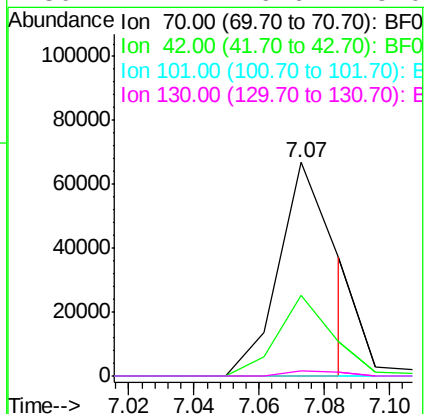
Ion Ratio Lower Upper

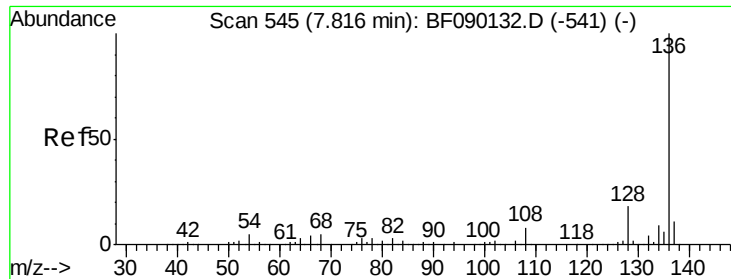
70 100

42 38.0 35.1 52.7

101 0.0 7.5 11.3#

130 2.4 16.6 25.0#

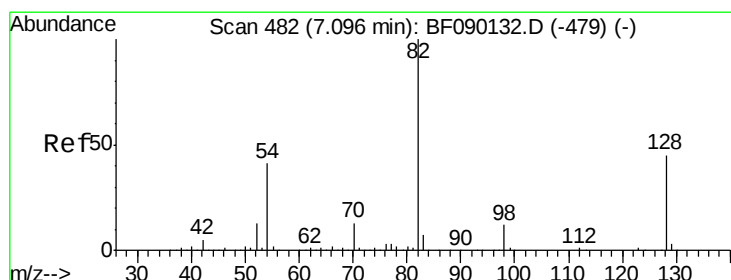
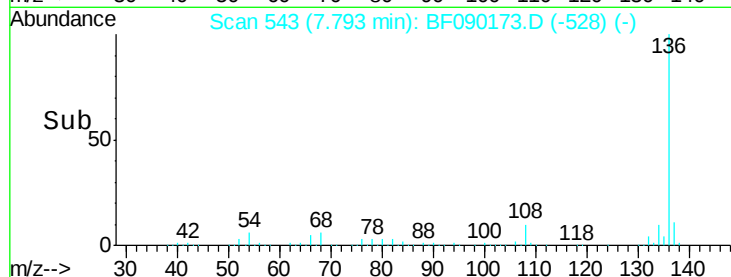
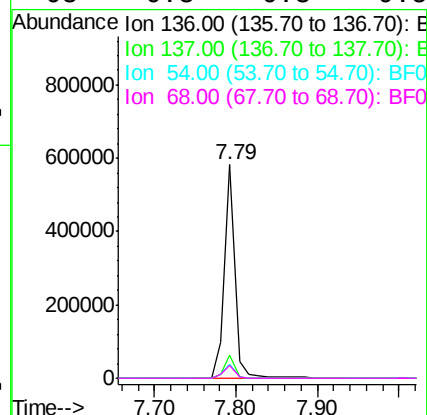
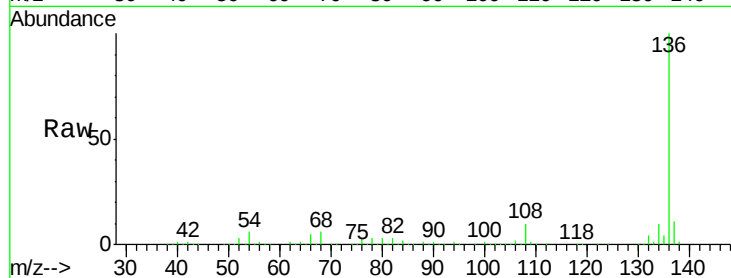




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.79 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

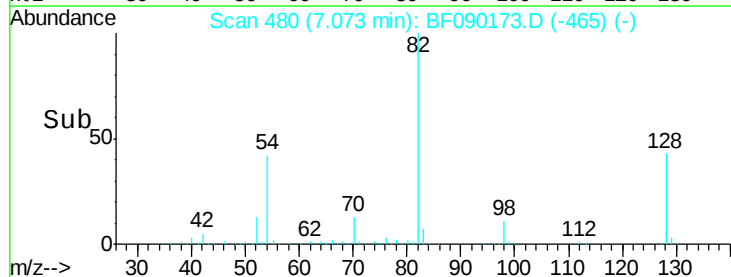
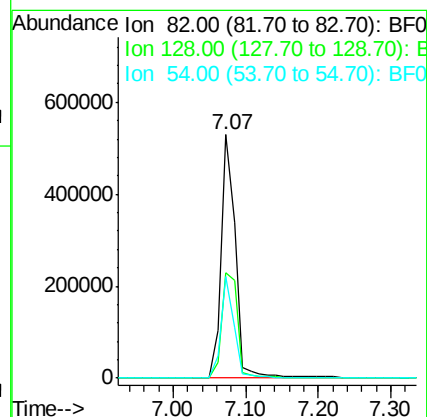
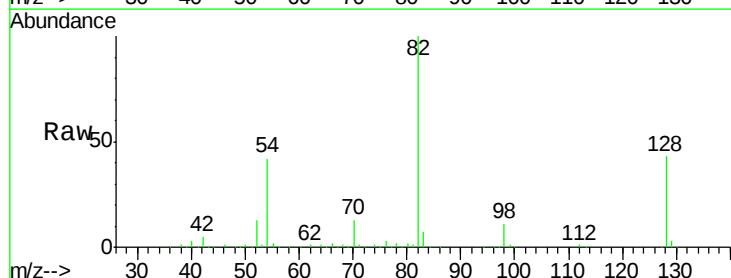
Instrument :
BNA_F
ClientSampleId :
SS-4

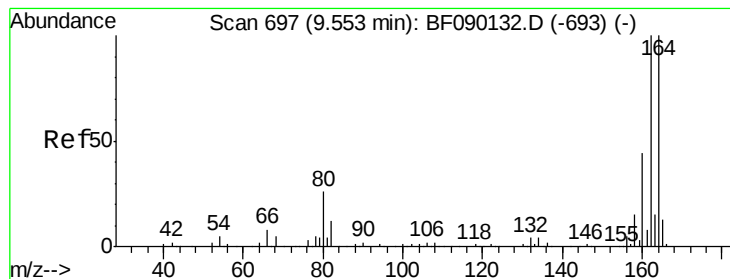
Tgt Ion:	136	Resp:	523355
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.3	6.4	9.6#
68	6.3	6.3	9.5#



#23
Nitrobenzene-d5
Concen: 79.98 ng
RT: 7.07 min Scan# 480
Delta R.T. -0.02 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion:	82	Resp:	722037
Ion	Ratio	Lower	Upper
82	100		
128	43.1	37.5	56.3
54	41.6	31.9	47.9





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

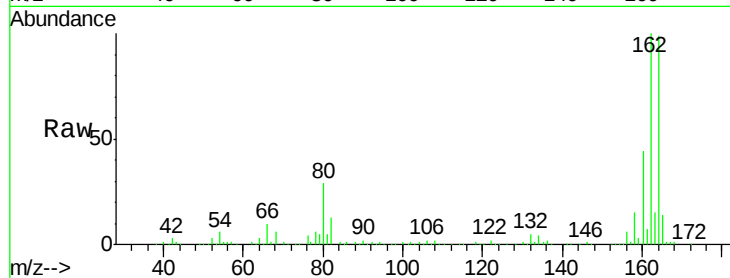
Tgt Ion:164 Resp: 244556

Ion Ratio Lower Upper

164 100

162 100.8 81.4 122.2

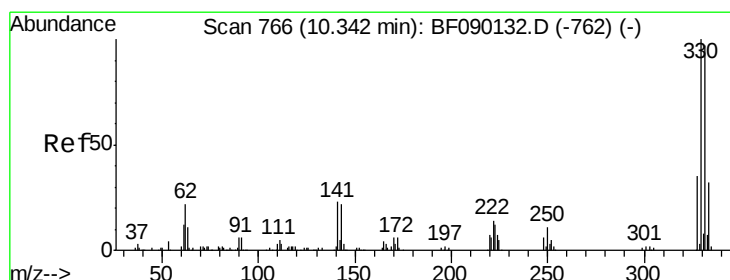
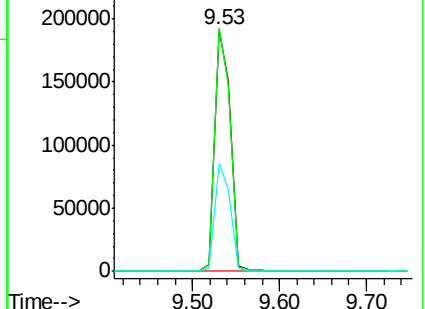
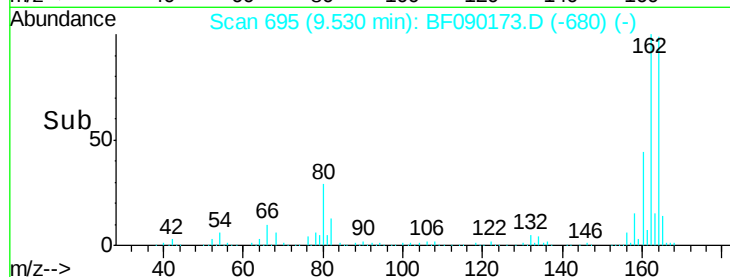
160 44.6 36.6 54.8



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: 118.00 ng

RT: 10.32 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

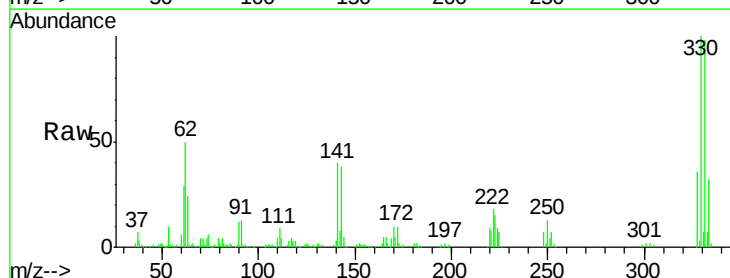
Tgt Ion:330 Resp: 247583

Ion Ratio Lower Upper

330 100

332 98.0 78.1 117.1

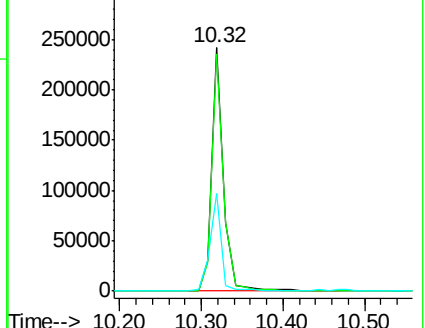
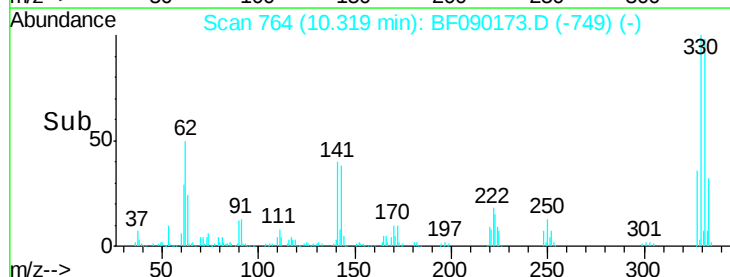
141 38.3 23.9 35.9#

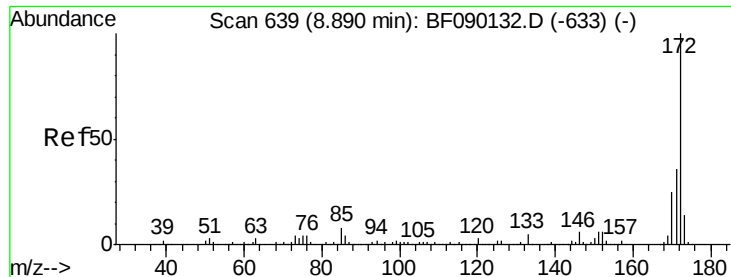


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



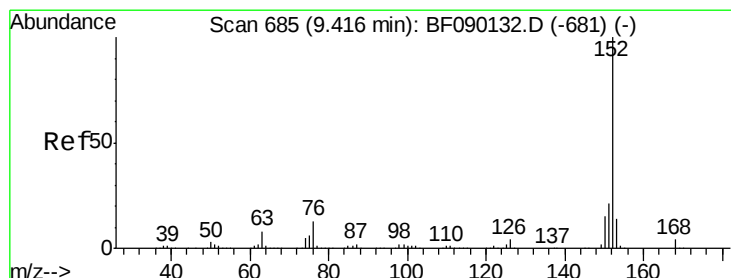
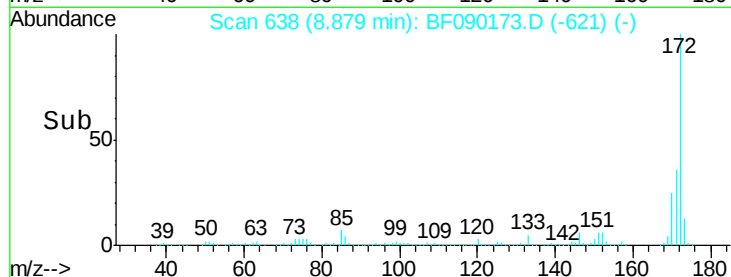
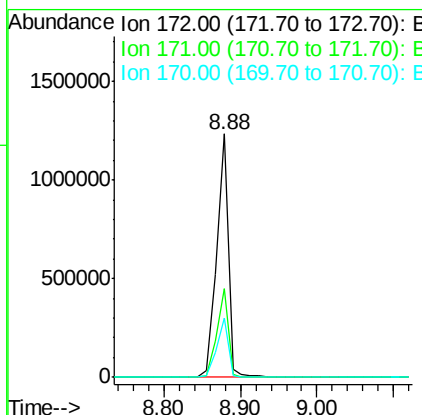
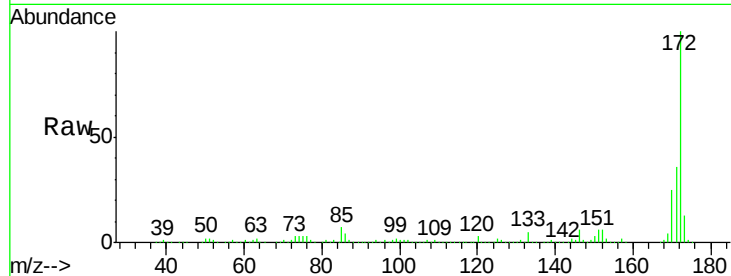


#44
 2-Fluorobiphenyl
 Concen: 103.49 ng
 RT: 8.88 min Scan# 638
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Instrument :
 BNA_F
 ClientSampleId :
 SS-4

Tgt Ion:172 Resp: 1289181

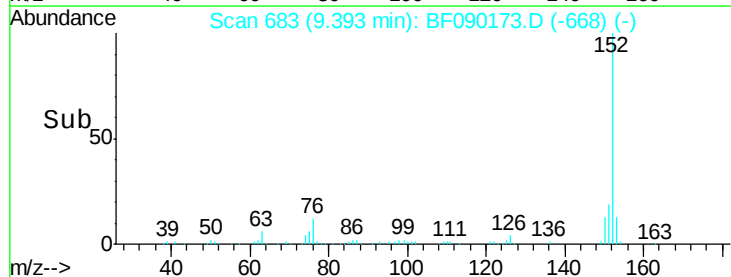
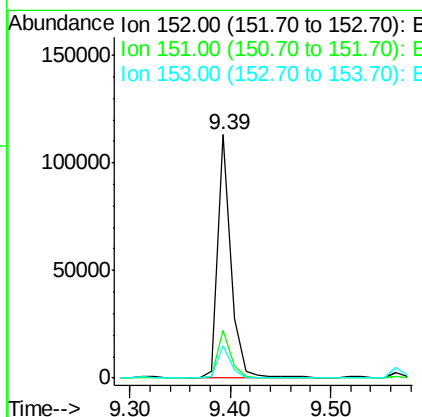
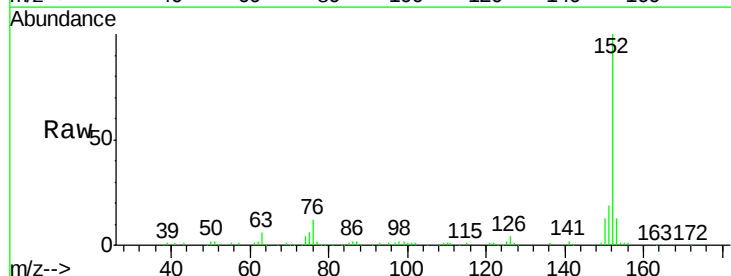
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.2	43.8
170	24.5	19.8	29.8

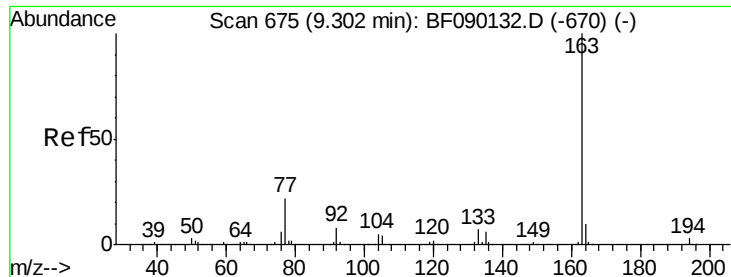


#48
 Acenaphthylene
 Concen: 5.01 ng
 RT: 9.39 min Scan# 683
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion:152 Resp: 105052

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.5	24.7
153	13.1	10.6	15.8





#49

Dimethylphthalate

Concen: 14.86 ng

RT: 9.28 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampled :

SS-4

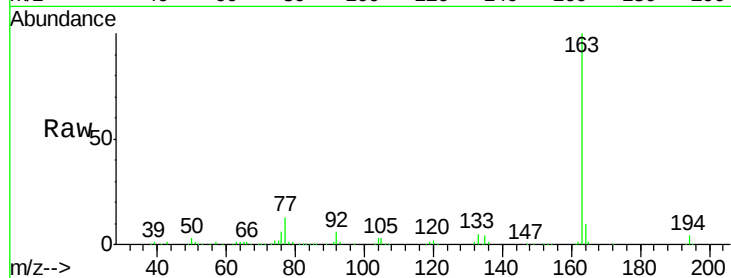
Tgt Ion:163 Resp: 231521

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

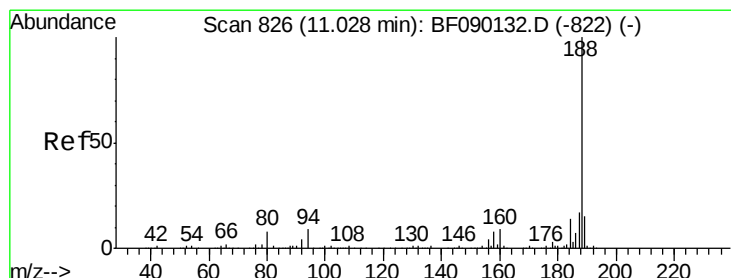
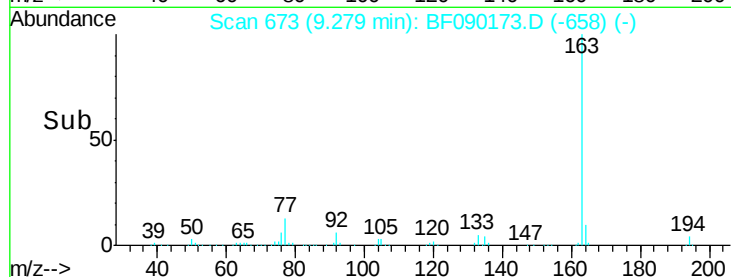
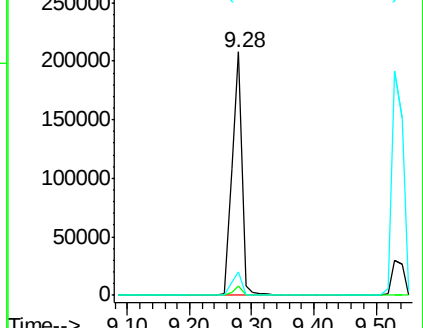
164 9.6 8.1 12.1



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.00 min Scan# 824

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

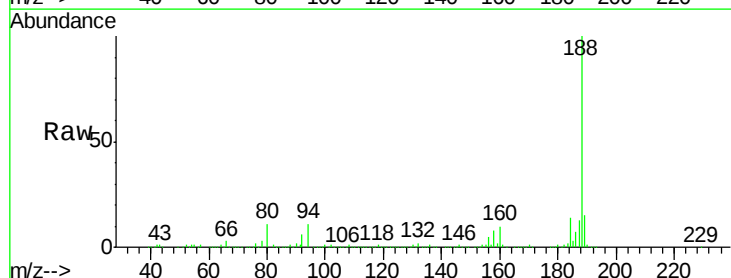
Tgt Ion:188 Resp: 432899

Ion Ratio Lower Upper

188 100

94 10.6 10.5 15.7

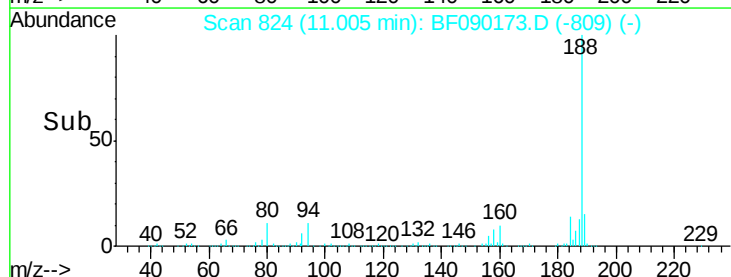
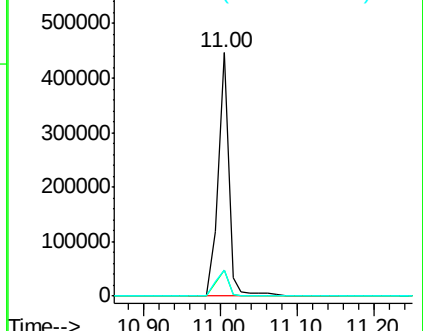
80 10.9 11.2 16.8#

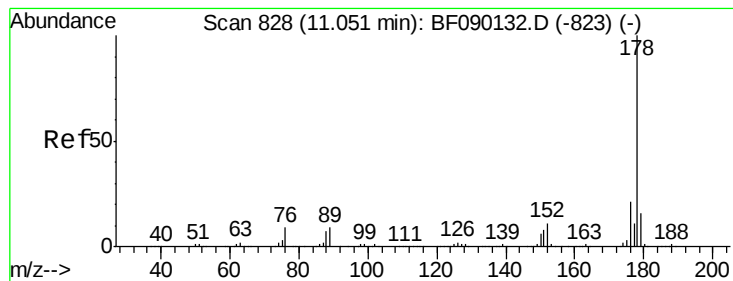


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 4.53 ng

RT: 11.03 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

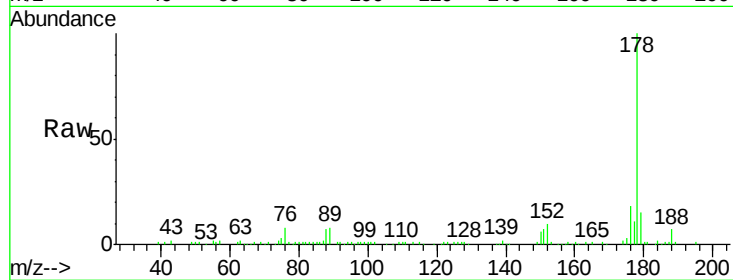
Tgt Ion:178 Resp: 91629

Ion Ratio Lower Upper

178 100

176 18.2 15.9 23.9

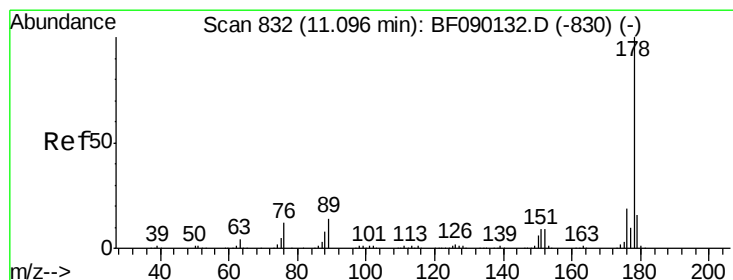
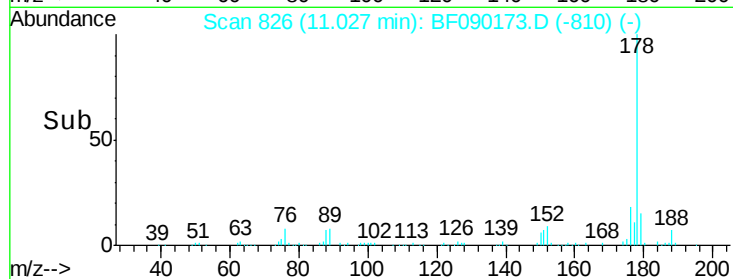
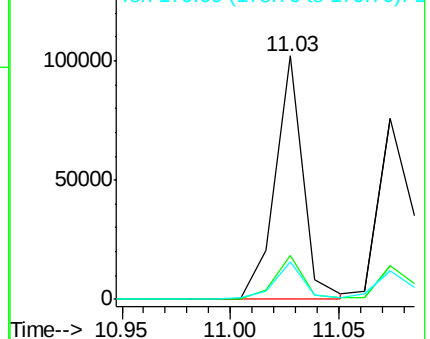
179 15.2 12.9 19.3



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: 4.24 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

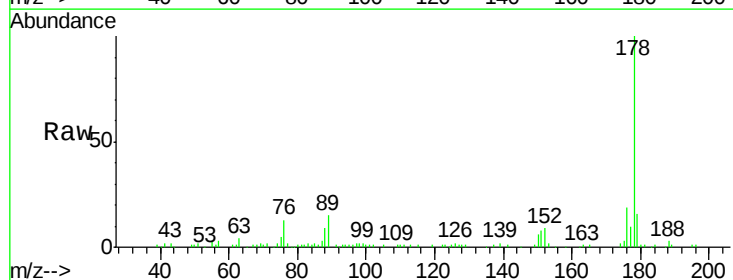
Tgt Ion:178 Resp: 90122

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.6

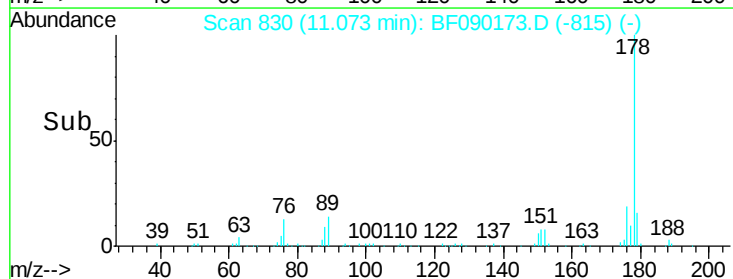
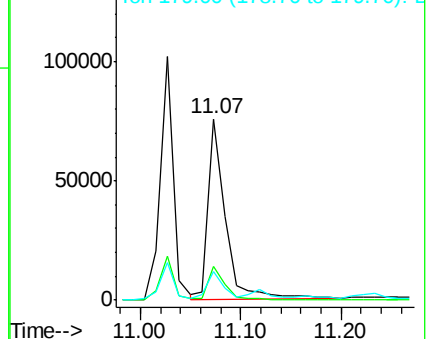
179 15.7 12.6 19.0

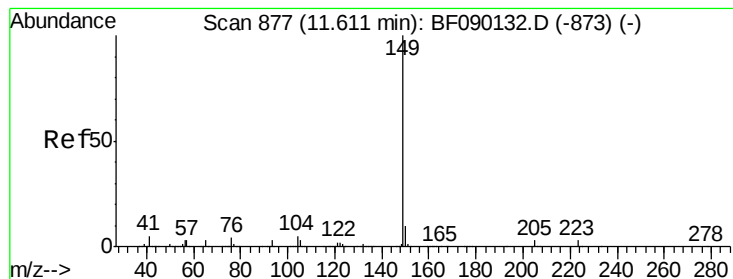


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 2.72 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

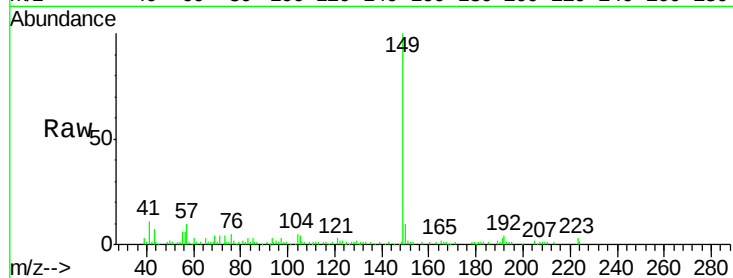
Tgt Ion:149 Resp: 70978

Ion Ratio Lower Upper

149 100

150 9.7 7.8 11.8

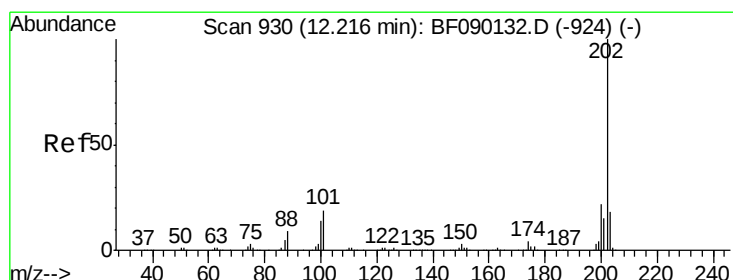
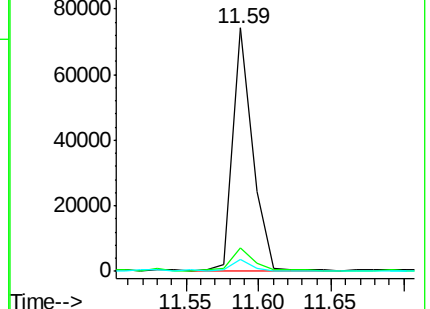
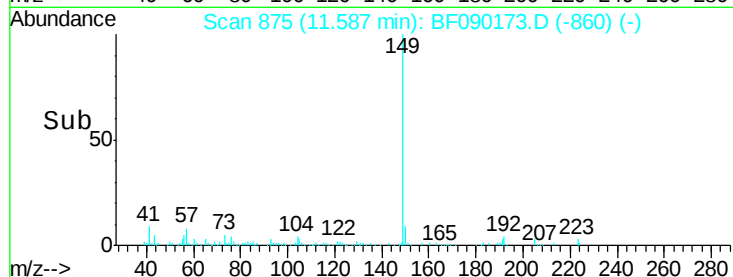
104 5.1 3.9 5.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 22.65 ng

RT: 12.20 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

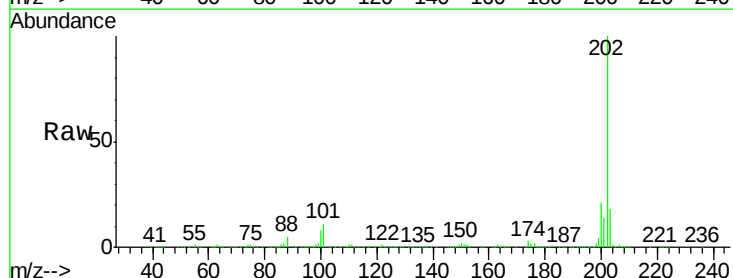
Tgt Ion:202 Resp: 492323

Ion Ratio Lower Upper

202 100

101 10.7 0.0 36.1

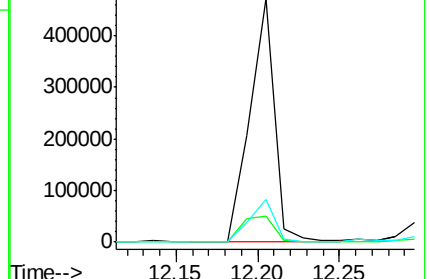
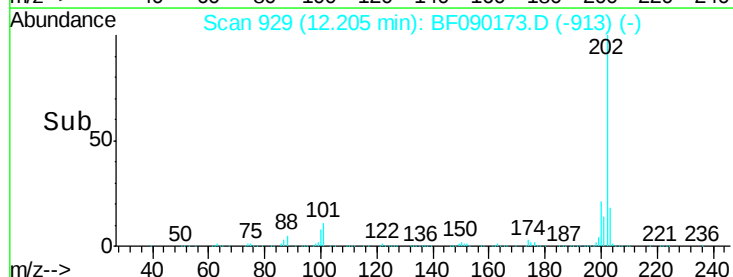
203 17.7 0.0 38.2

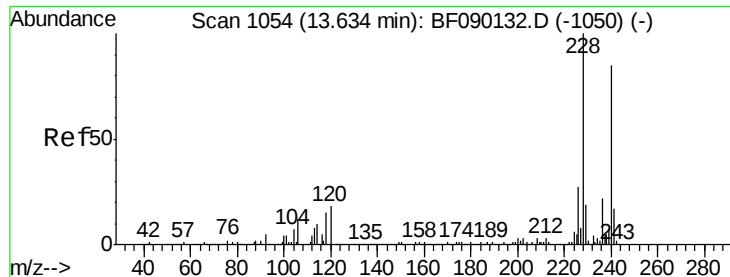


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampled :

SS-4

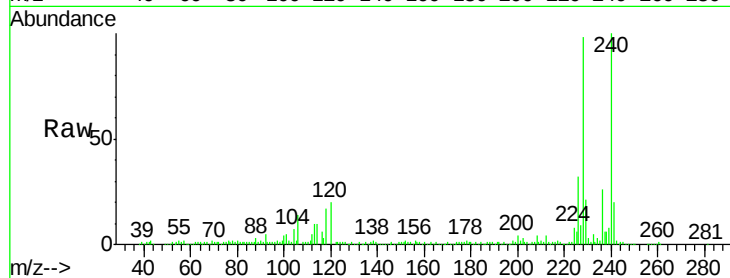
Tgt Ion:240 Resp: 277255

Ion Ratio Lower Upper

240 100

120 20.2 10.6 16.0#

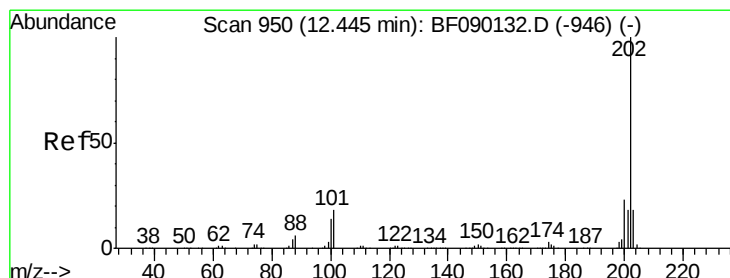
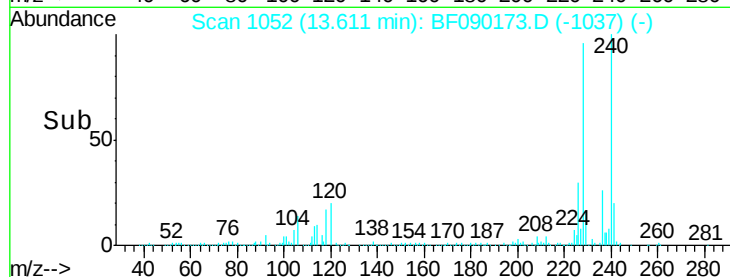
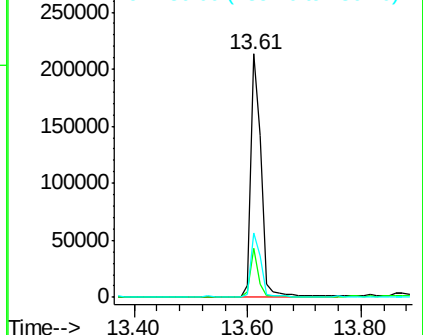
236 26.3 21.6 32.4



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: 25.23 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

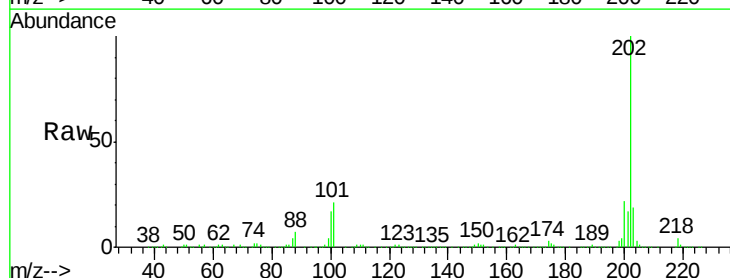
Tgt Ion:202 Resp: 478720

Ion Ratio Lower Upper

202 100

200 21.8 17.9 26.9

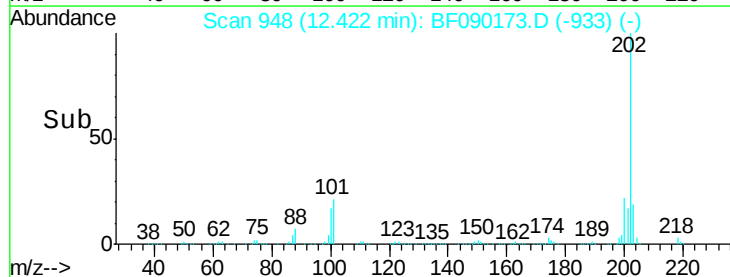
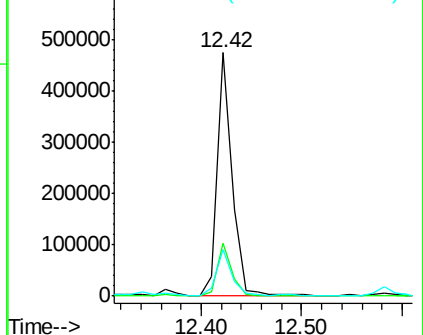
203 19.3 14.2 21.4

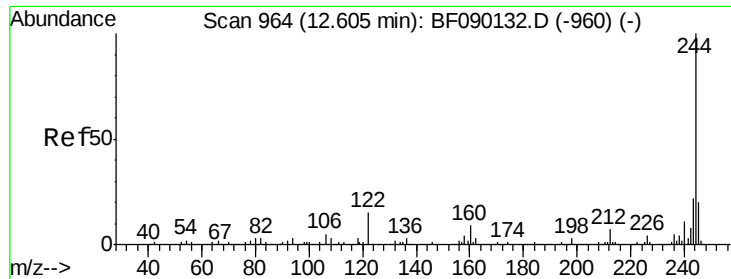


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

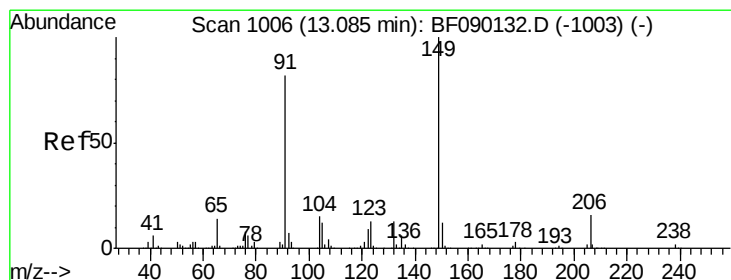
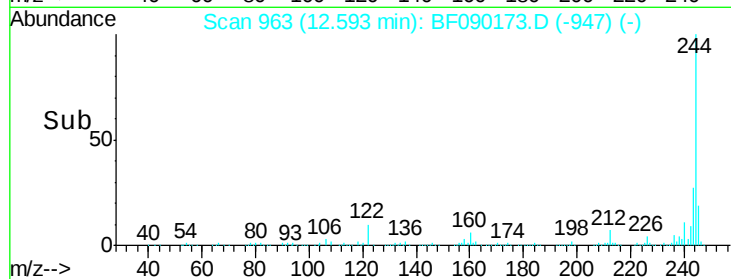
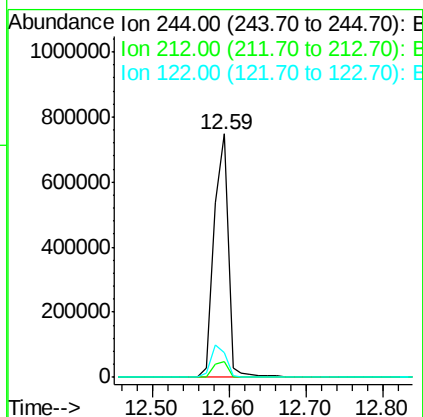
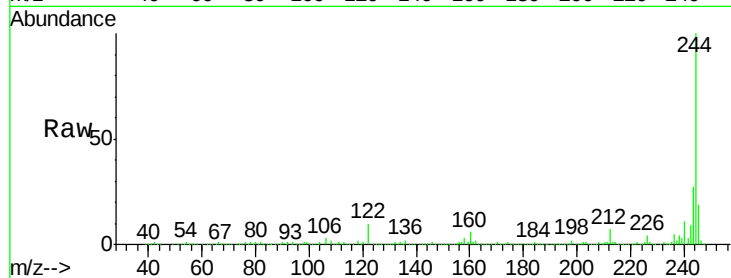




#78
 Terphenyl-d14
 Concen: 87.43 ng
 RT: 12.59 min Scan# 963
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

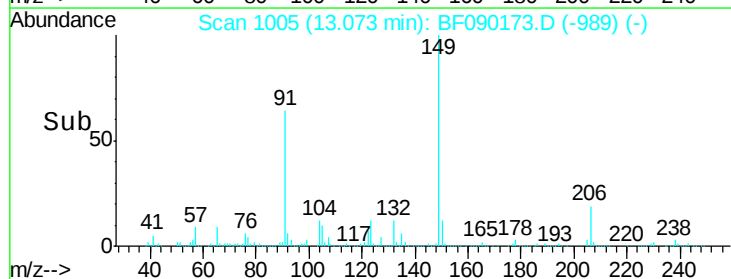
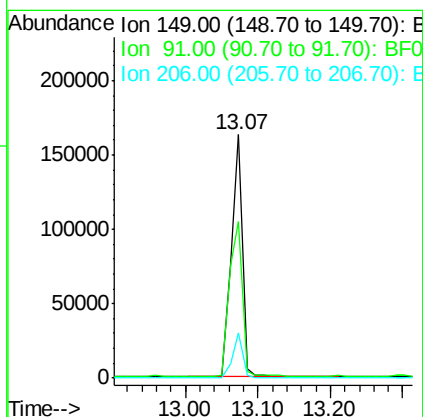
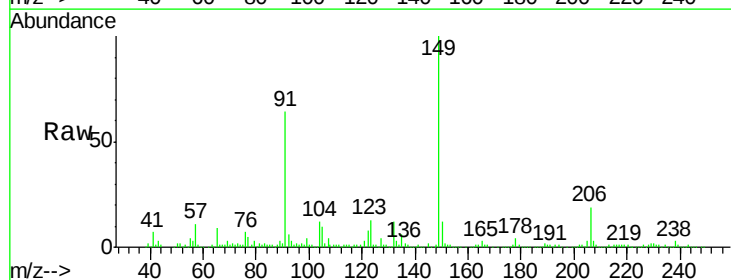
Instrument :
 BNA_F
 ClientSampleId :
 SS-4

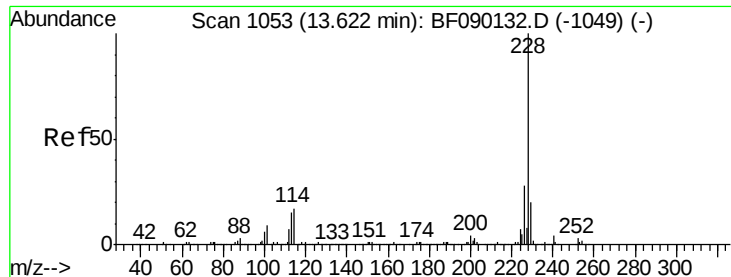
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.8
122	9.9	9.4	14.0



#79
 Butylbenzylphthalate
 Concen: 18.64 ng
 RT: 13.07 min Scan# 1005
 Delta R.T. -0.01 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion	Ratio	Lower	Upper
149	100		
91	64.2	49.8	74.6
206	18.6	16.3	24.5

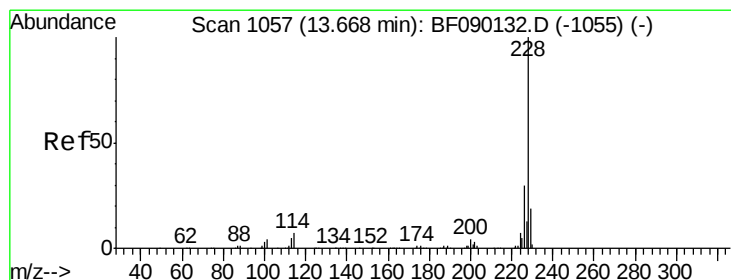
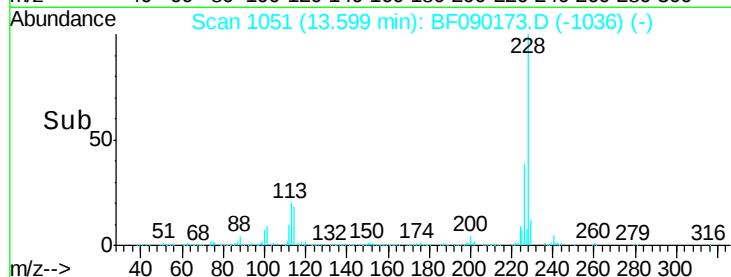
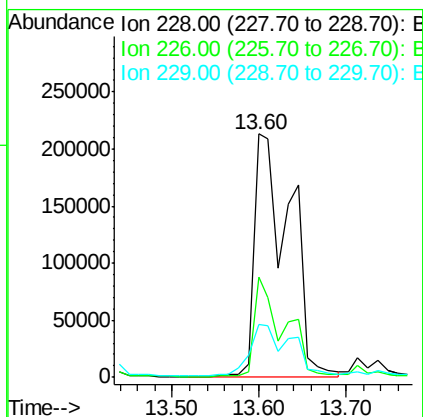
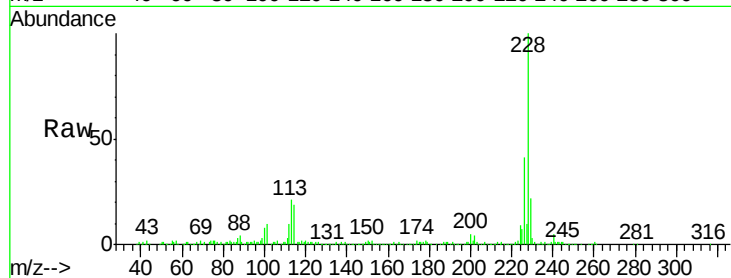




#80
Benzo(a)anthracene
Concen: 40.66 ng
RT: 13.60 min Scan# 1051
Delta R.T. -0.02 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

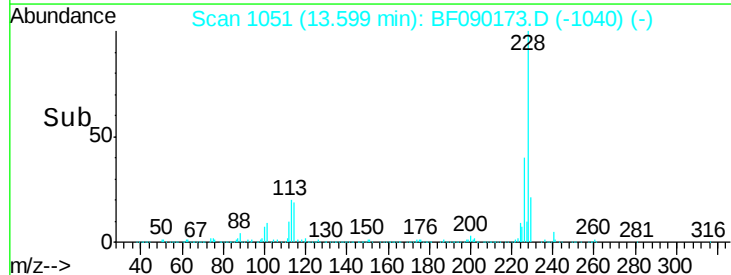
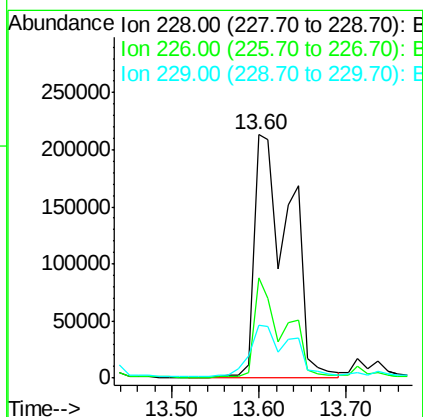
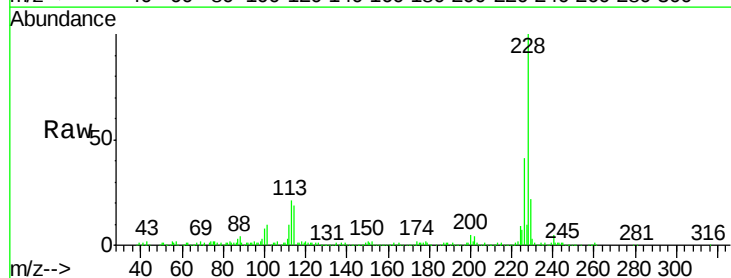
Instrument :
BNA_F
ClientSampleId :
SS-4

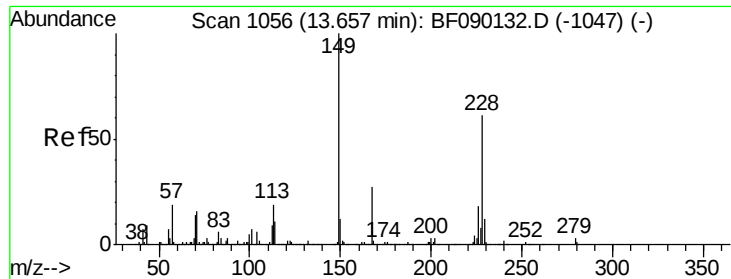
Tgt Ion:228 Resp: 606513
Ion Ratio Lower Upper
228 100
226 41.0 22.0 33.0#
229 21.8 16.2 24.2



#82
Chrysene
Concen: 41.74 ng
RT: 13.60 min Scan# 1051
Delta R.T. -0.07 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion:228 Resp: 606513
Ion Ratio Lower Upper
228 100
226 41.0 24.6 37.0#
229 21.8 16.2 24.4

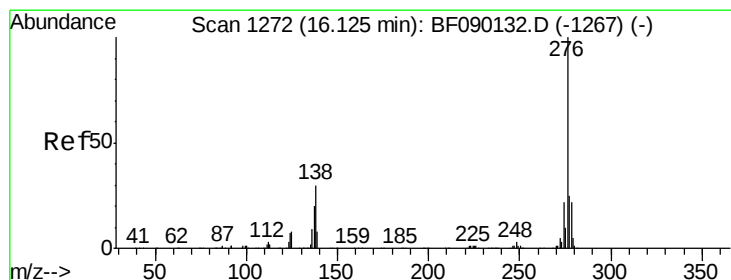
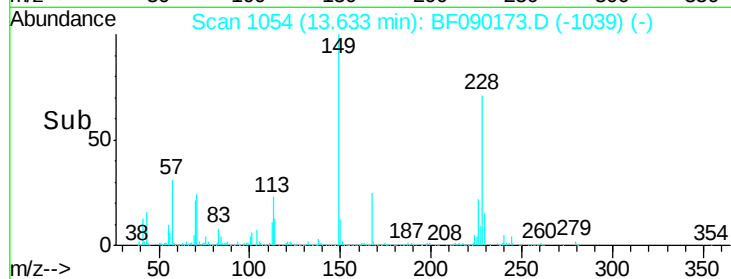
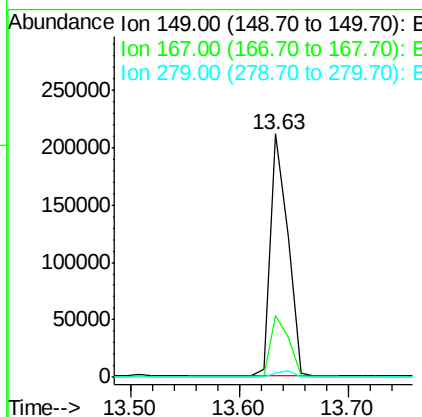
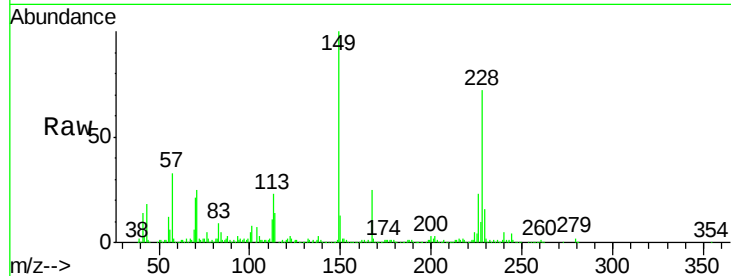




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 19.80 ng
 RT: 13.63 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

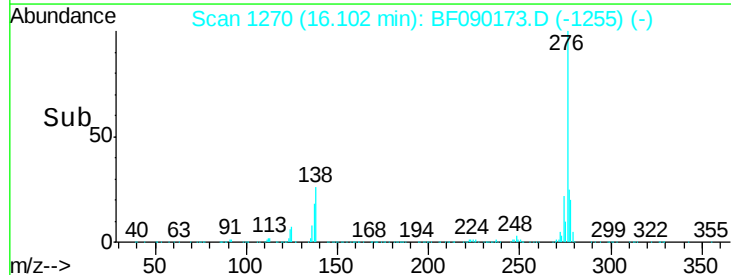
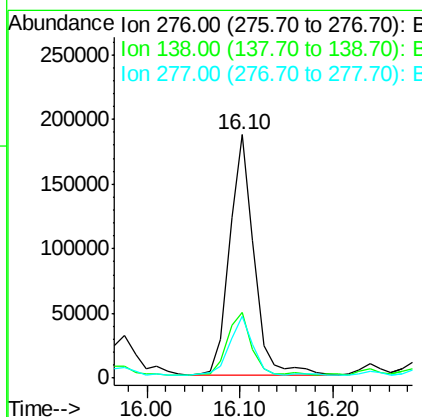
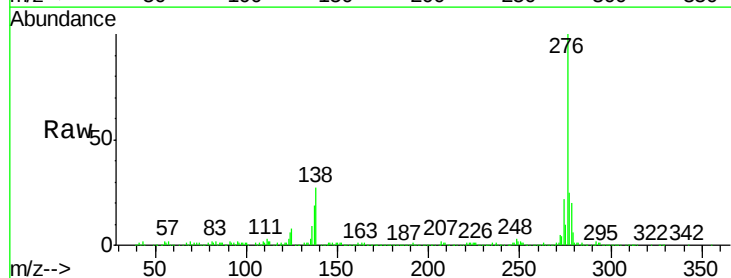
Instrument :
 BNA_F
 ClientSampleId :
 SS-4

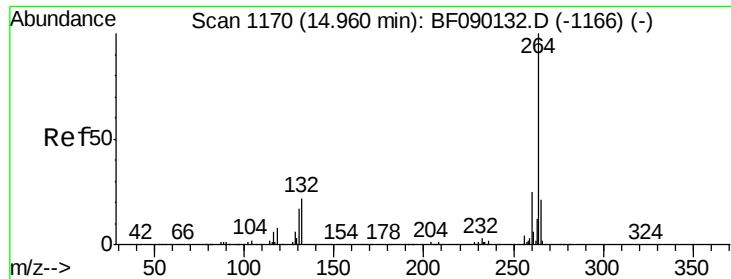
Tgt Ion:149 Resp: 235160
 Ion Ratio Lower Upper
 149 100
 167 25.2 21.2 31.8
 279 1.9 2.2 3.2#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 28.86 ng
 RT: 16.10 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: BF090173.D
 Acq: 21 Sep 2016 21:43

Tgt Ion:276 Resp: 339000
 Ion Ratio Lower Upper
 276 100
 138 26.1 25.9 38.9
 277 22.8 19.9 29.9



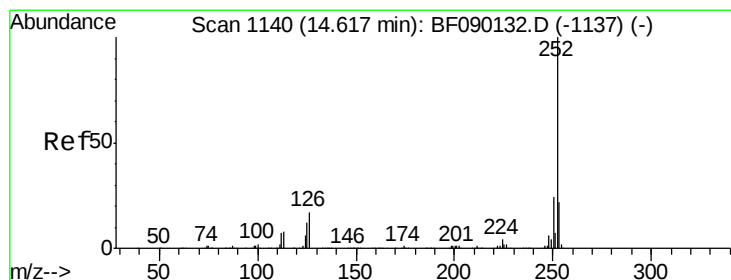
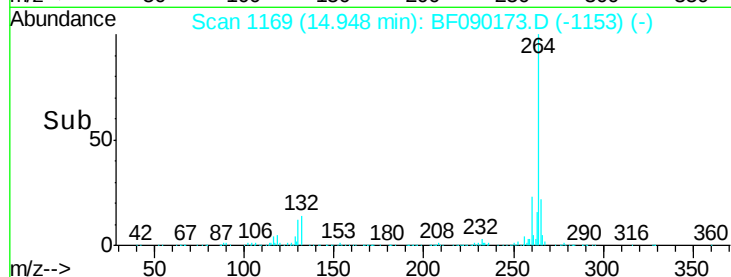
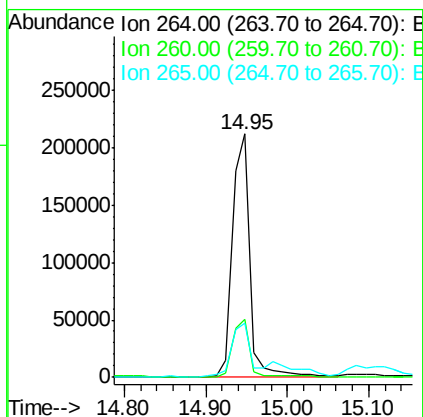
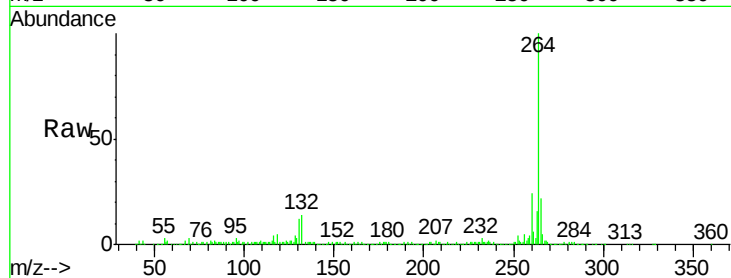


#86
Perylene-d12
Concen: 20.00 ng
RT: 14.95 min Scan# 1169
Delta R.T. -0.01 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Instrument :
BNA_F
ClientSampleId :
SS-4

Tgt Ion: 264 Resp: 313013

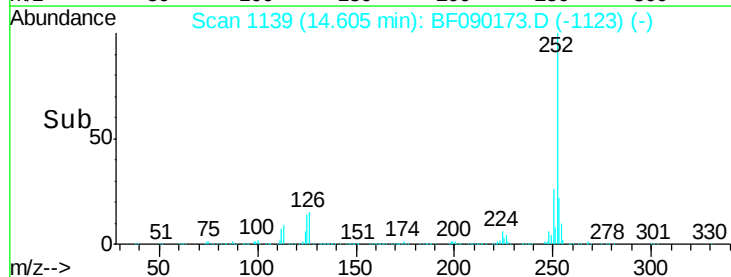
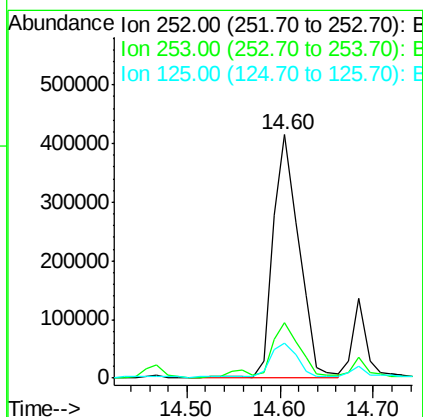
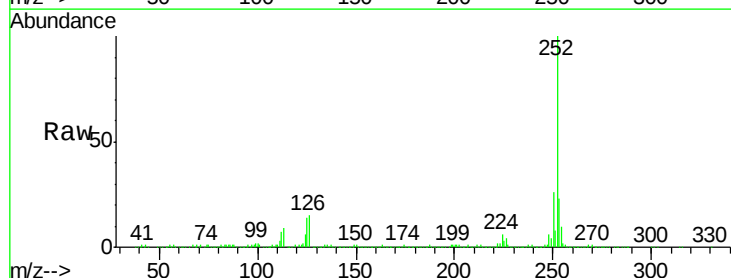
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	22.2	17.0	25.4

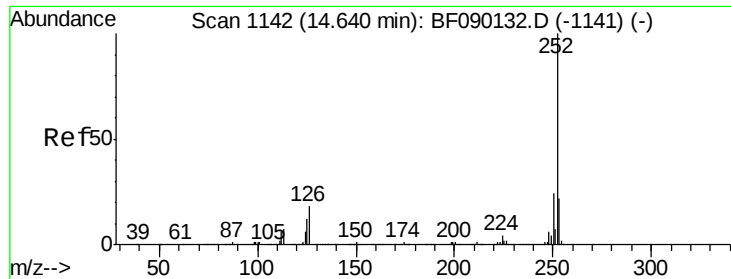


#87
Benzo(b)fluoranthene
Concen: 45.96 ng
RT: 14.60 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF090173.D
Acq: 21 Sep 2016 21:43

Tgt Ion: 252 Resp: 796553

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	14.3	12.7	19.1





#88

Benzo(k)fluoranthene

Concen: 48.97 ng

RT: 14.60 min Scan# 1139

Delta R.T. -0.03 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampleId :

SS-4

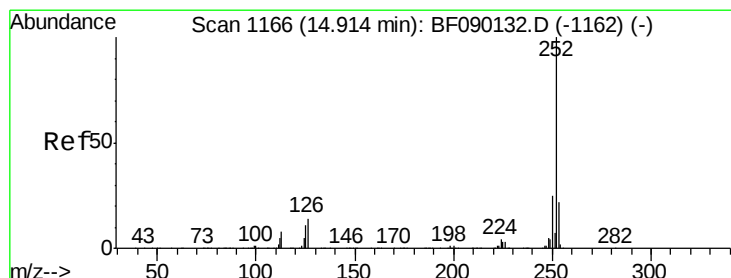
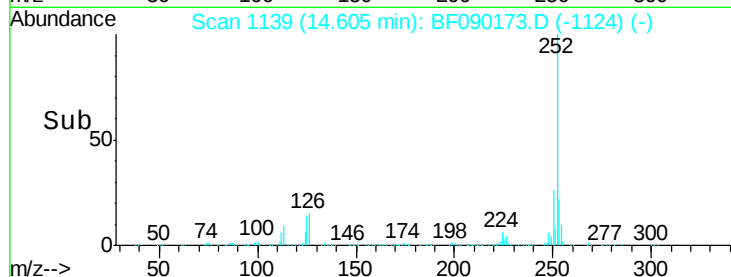
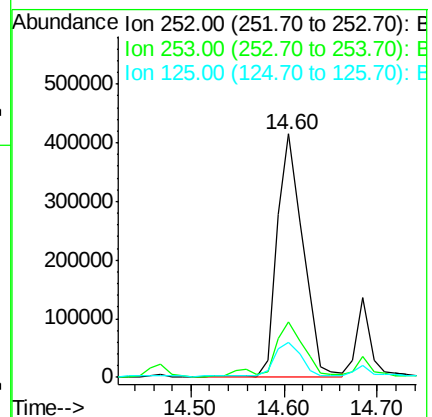
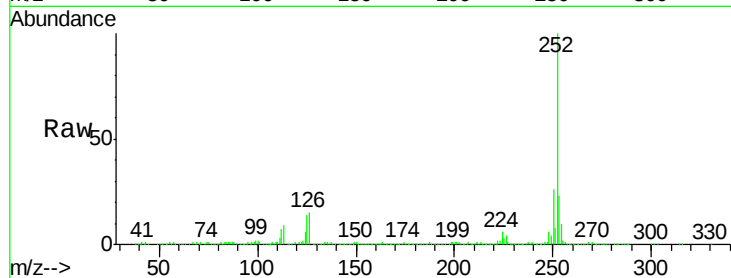
Tgt Ion:252 Resp: 796553

Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

125 14.3 7.8 11.6#



#89

Benzo(a)pyrene

Concen: 22.60 ng

RT: 14.89 min Scan# 1164

Delta R.T. -0.02 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

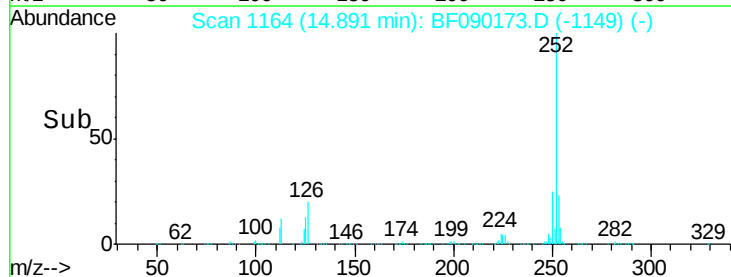
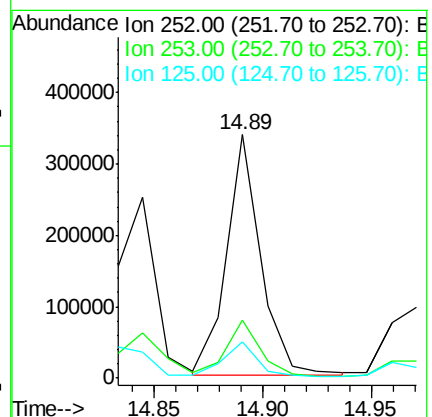
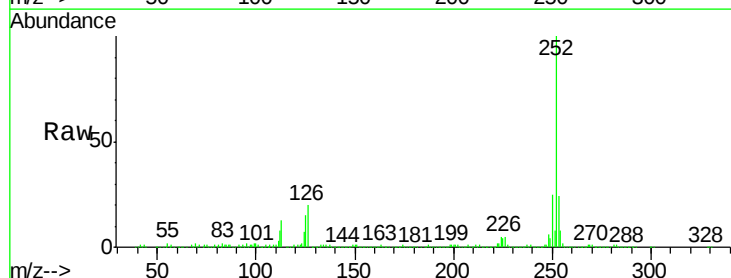
Tgt Ion:252 Resp: 368489

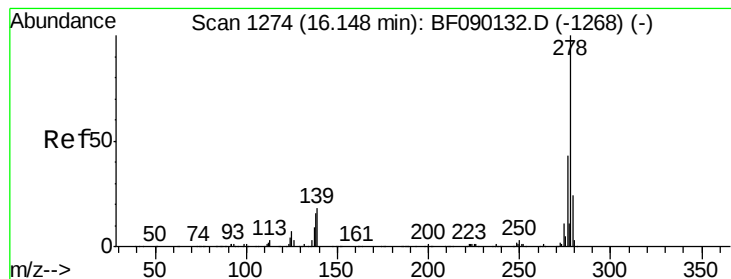
Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.0

125 14.9 7.7 11.5#





#90

Dibenzo(a,h)anthracene

Concen: 6.76 ng

RT: 16.11 min Scan# 1271

Delta R.T. -0.03 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

Instrument :

BNA_F

ClientSampled :

SS-4

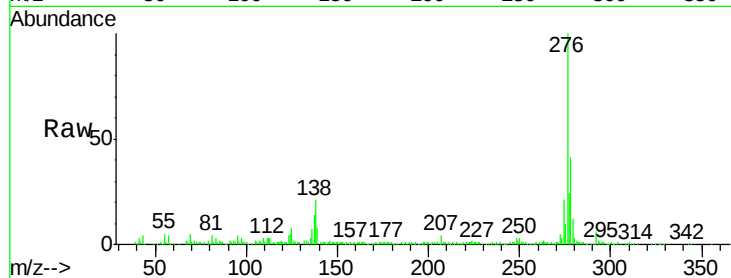
Tgt Ion:278 Resp: 86047

Ion Ratio Lower Upper

278 100

139 20.3 14.6 21.8

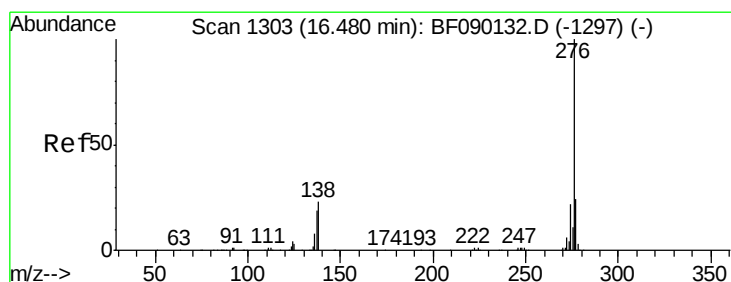
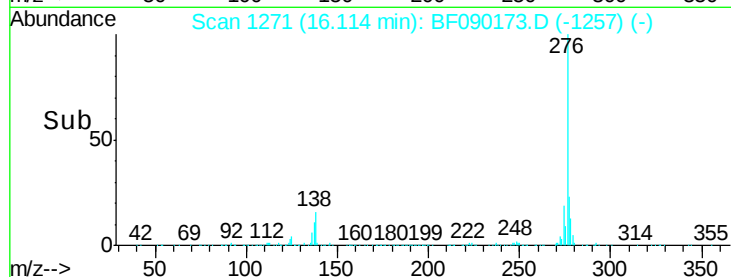
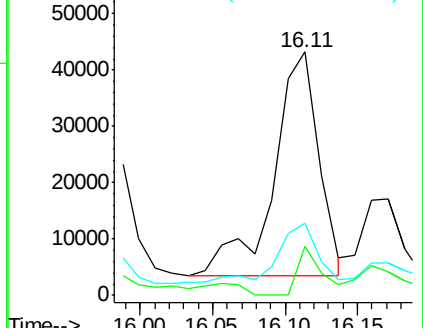
279 29.4 18.8 28.2#



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: 24.01 ng

RT: 16.45 min Scan# 1300

Delta R.T. -0.03 min

Lab File: BF090173.D

Acq: 21 Sep 2016 21:43

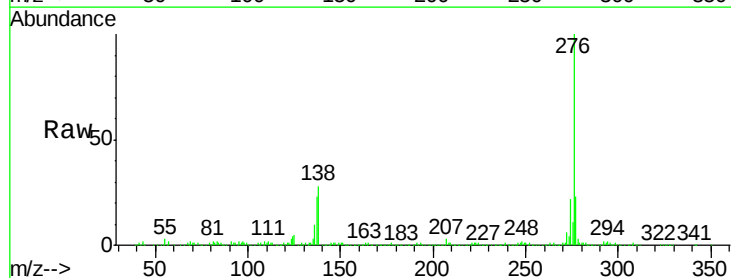
Tgt Ion:276 Resp: 298995

Ion Ratio Lower Upper

276 100

277 23.5 18.9 28.3

138 27.9 23.3 34.9



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

