

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094036.D
 Acq On : 29 Mar 2017 23:24
 Operator : SJ/MA
 Sample : I2443-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-012-ESW

Quant Time: Mar 30 01:12:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

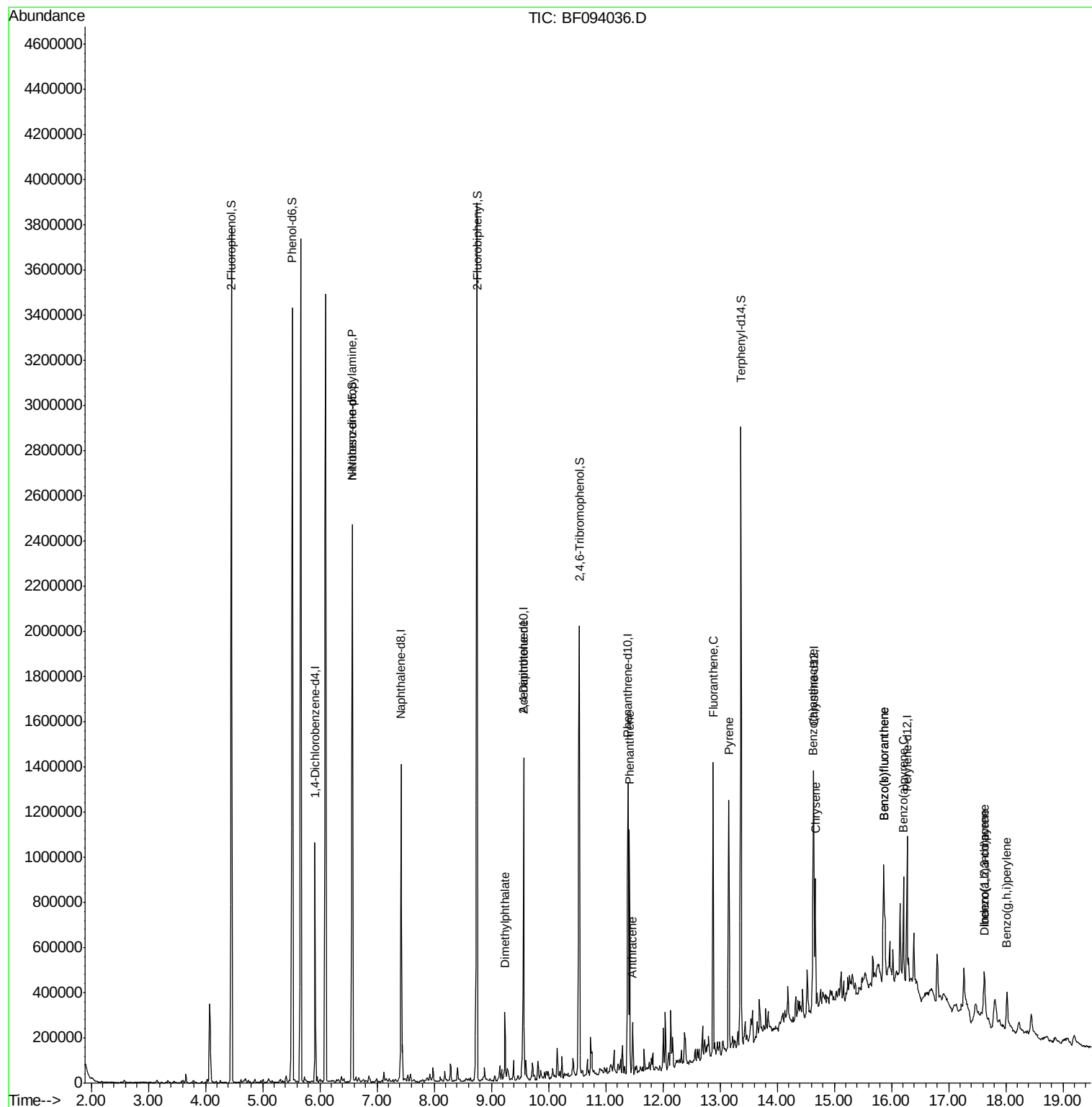
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	177611	20.00	ng	-0.04
21) Naphthalene-d8	7.42	136	708516	20.00	ng	-0.04
38) Acenaphthene-d10	9.56	164	312689	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	517691	20.00	ng	-0.04
75) Chrysene-d12	14.64	240	341645	20.00	ng	-0.04
86) Perylene-d12	16.27	264	278327	20.00	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	1240471	117.96	ng	-0.02
7) Phenol-d6	5.52	99	1657097	127.38	ng	-0.03
23) Nitrobenzene-d5	6.57	82	1112186	89.58	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	286215	115.83	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1611097	78.59	ng	-0.03
78) Terphenyl-d14	13.37	244	991134	65.03	ng	-0.04
Target Compounds						
19) n-Nitroso-di-n-propylamine	6.57	70	148518	17.76	ng	# 78
49) Dimethylphthalate	9.24	163	123455	5.55	ng	# 98
56) 2,4-Dinitrotoluene	9.56	165	40989	6.40	ng	# 33
70) Phenanthrene	11.42	178	418654	14.54	ng	98
71) Anthracene	11.47	178	89233	3.01	ng	97
74) Fluoranthene	12.88	202	570903	19.36	ng	99
77) Pyrene	13.16	202	509006	20.53	ng	99
80) Benzo(a)anthracene	14.63	228	243681	12.23	ng	96
82) Chrysene	14.67	228	248398	13.44	ng	98
85) Indeno(1,2,3-cd)pyrene	17.62	276	123379	7.71	ng	96
87) Benzo(b)fluoranthene	15.86	252	375959	22.04	ng	# 94
88) Benzo(k)fluoranthene	15.86	252	375959	22.52	ng	98
89) Benzo(a)pyrene	16.21	252	185697	11.82	ng	# 96
90) Dibenzo(a,h)anthracene	17.64	278	34548	2.60	ng	# 79
91) Benzo(a,h,i)perylene	18.02	276	118218	8.82	ng	97

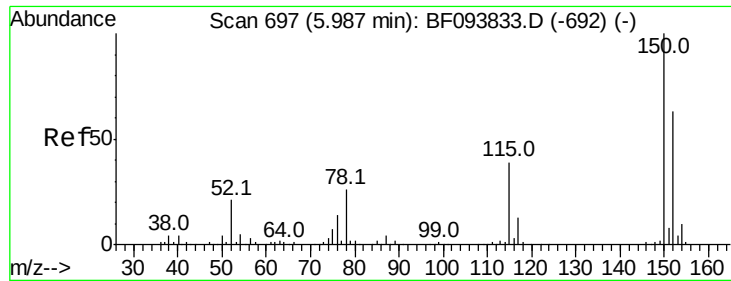
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.92 min Scan# 685

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

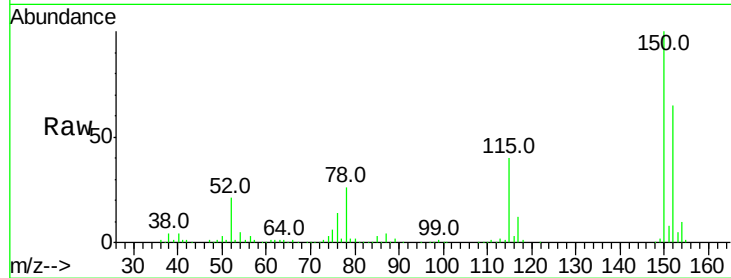
Tot Ion:152 Resp: 177611

Ion Ratio Lower Upper

152 100

150 154.1 126.2 189.2

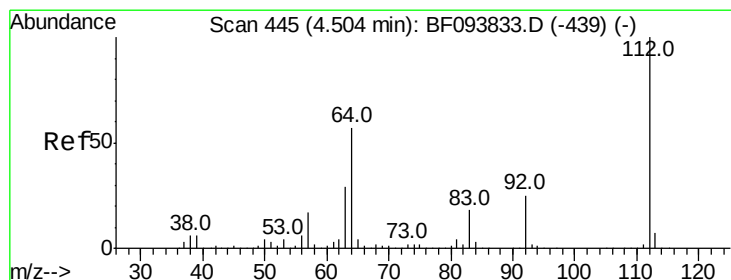
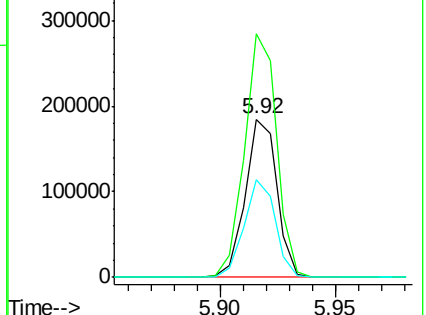
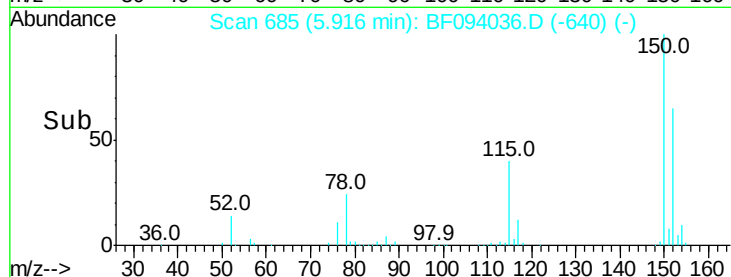
115 62.1 52.2 78.2



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: 117.96 ng

RT: 4.46 min Scan# 437

Delta R.T. -0.02 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

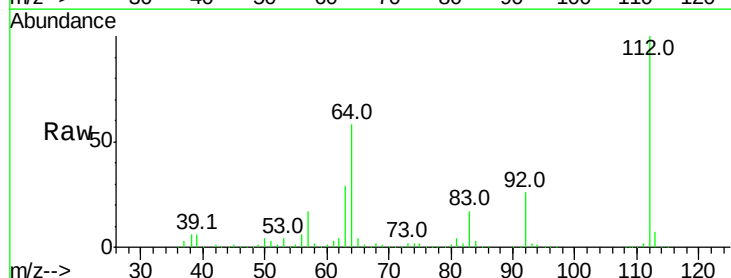
Tgt Ion:112 Resp: 1240471

Ion Ratio Lower Upper

112 100

64 58.3 46.0 69.0

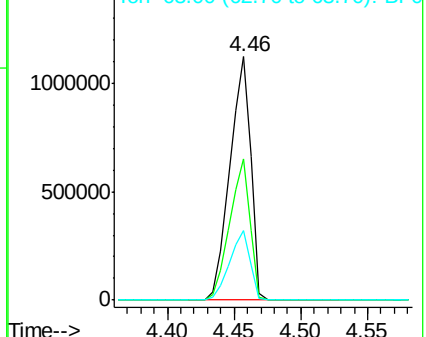
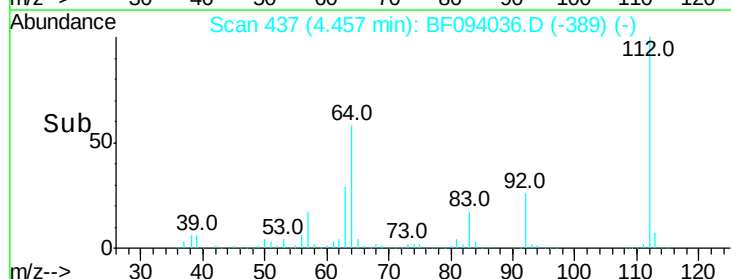
63 28.7 23.4 35.0

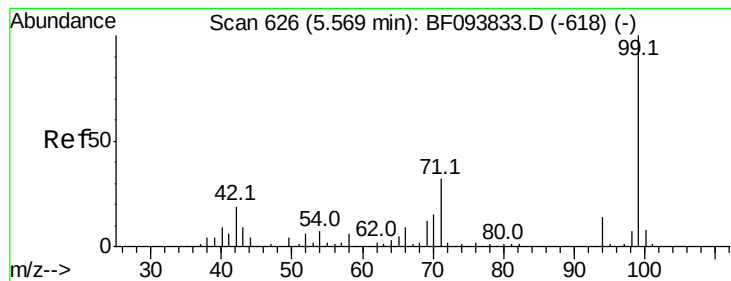


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 127.38 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.03 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

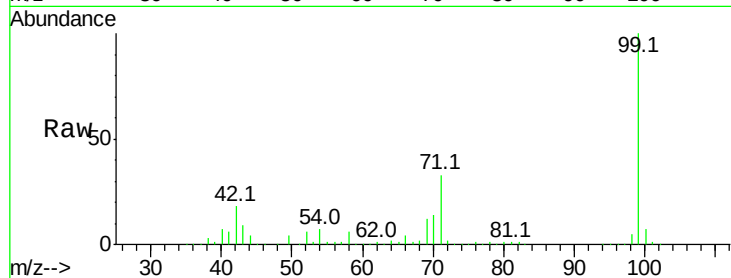
BNA_F

ClientSampleId :

E2-O12-ESW

Tot Ion: 99 Resp: 1657097

Ion	Ratio	Lower	Upper
99	100		
42	17.7	13.5	20.3
71	33.5	24.5	36.7

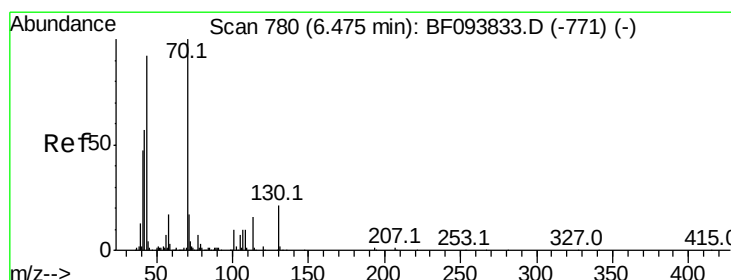
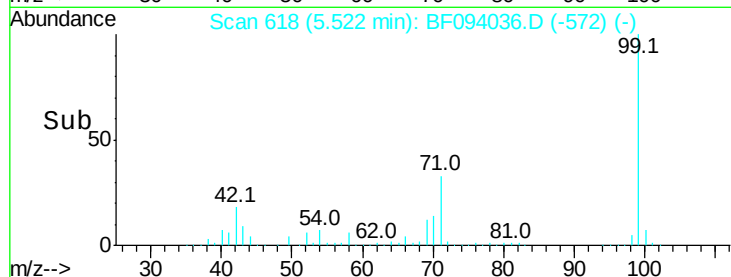
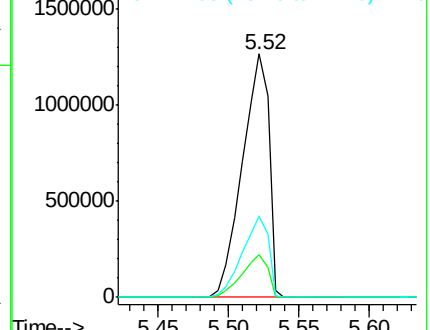


Abundance

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: 17.76 ng

RT: 6.57 min Scan# 796

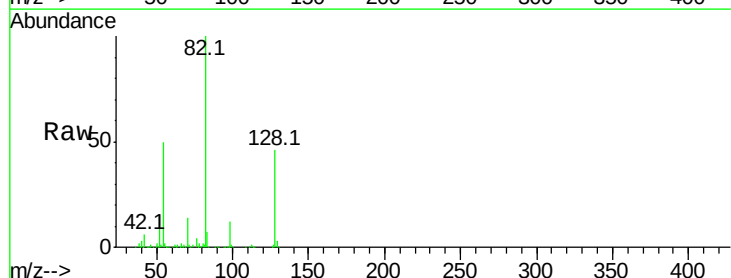
Delta R.T. 0.13 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Tgt Ion: 70 Resp: 148518

Ion	Ratio	Lower	Upper
70	100		
42	47.1	47.2	70.8#
101	0.0	7.2	10.8#
130	2.8	15.9	23.9#



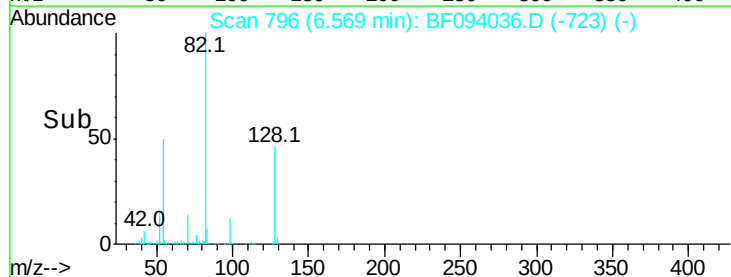
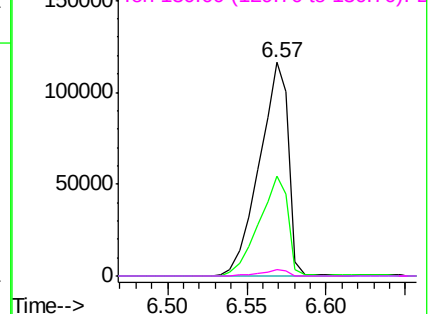
Abundance

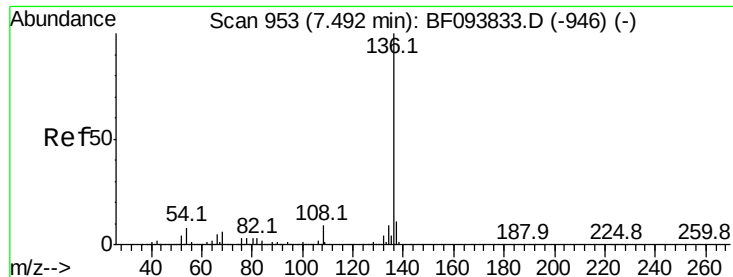
Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

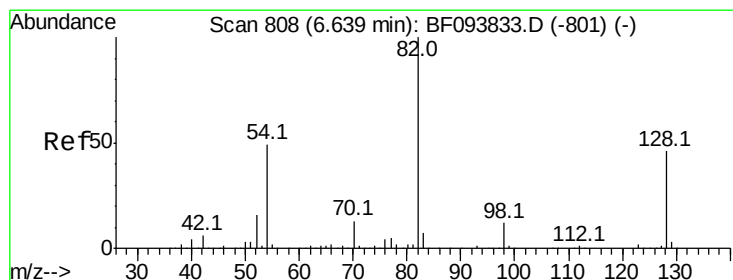
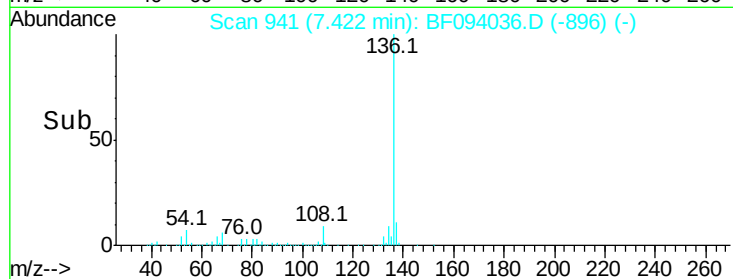
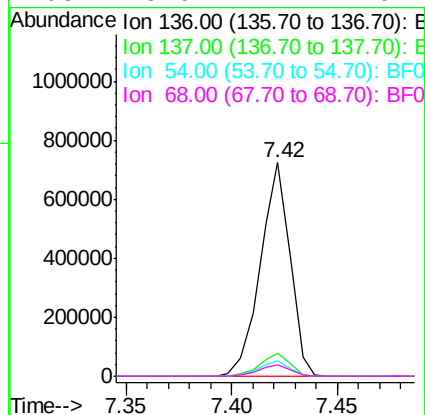
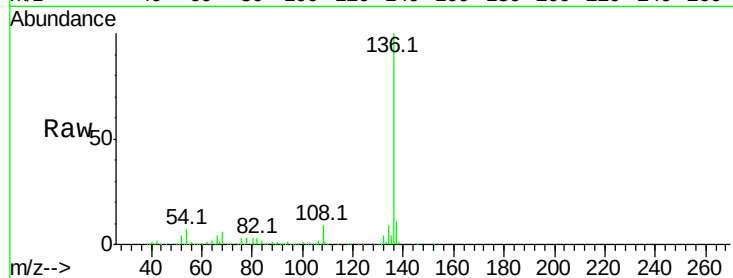




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.42 min Scan# 941
Delta R.T. -0.04 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

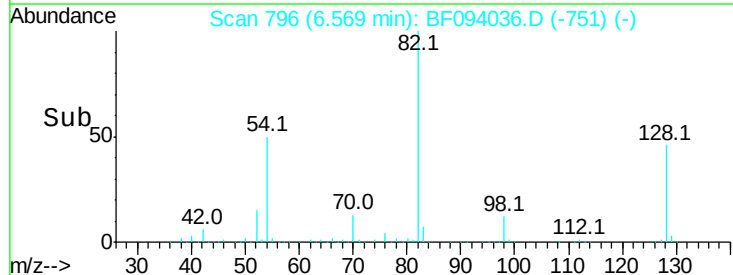
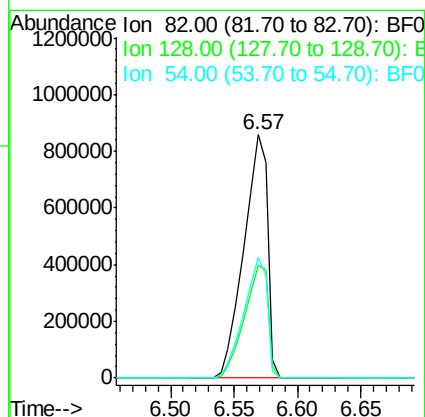
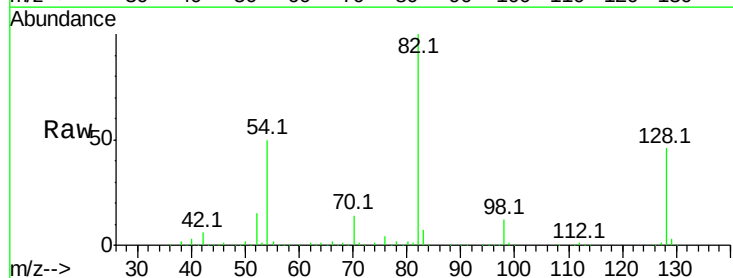
Instrument :
BNA_F
ClientSampleId :
E2-O12-ESW

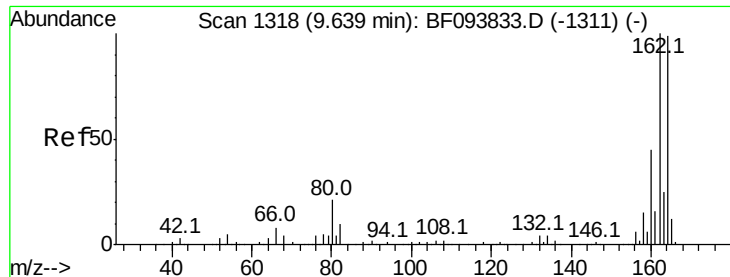
Tot Ion:	136	Resp:	708516
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	7.2	4.9	7.3
68	5.6	4.1	6.1



#23
Nitrobenzene-d5
Concen: 89.58 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

Tgt Ion:	82	Resp:	1112186
Ion	Ratio	Lower	Upper
82	100		
128	46.4	34.0	51.0
54	49.6	42.2	63.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.56 min Scan# 1305

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

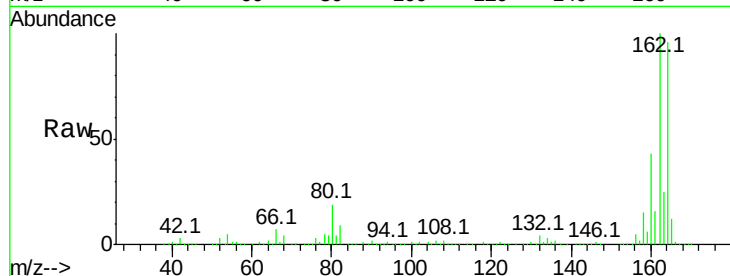
BNA_F

ClientSampleId :

E2-O12-ESW

Tot Ion:164 Resp: 312689

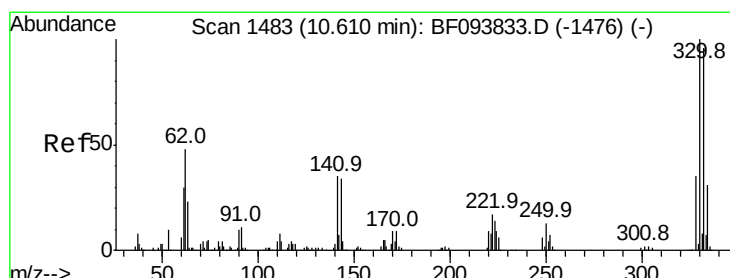
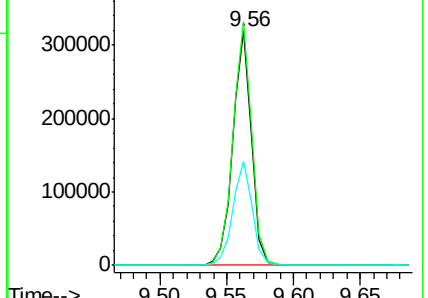
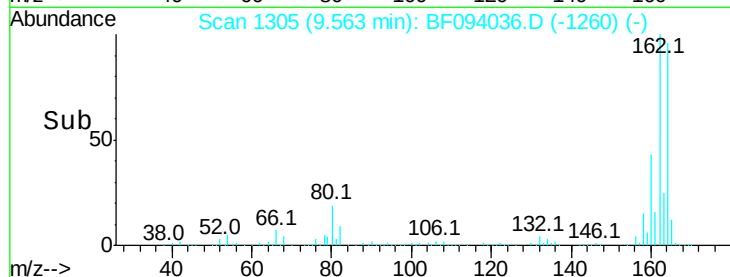
Ion	Ratio	Lower	Upper
164	100		
162	103.8	82.6	123.8
160	44.4	36.2	54.2



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: 115.83 ng

RT: 10.54 min Scan# 1471

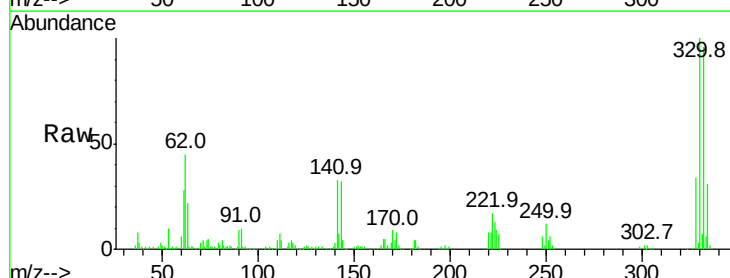
Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Tgt Ion:330 Resp: 286215

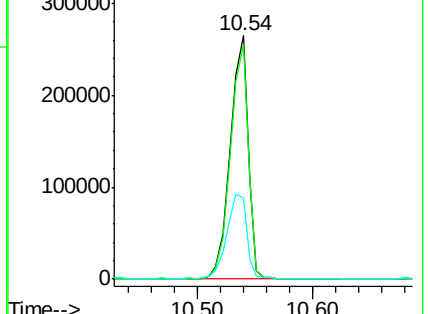
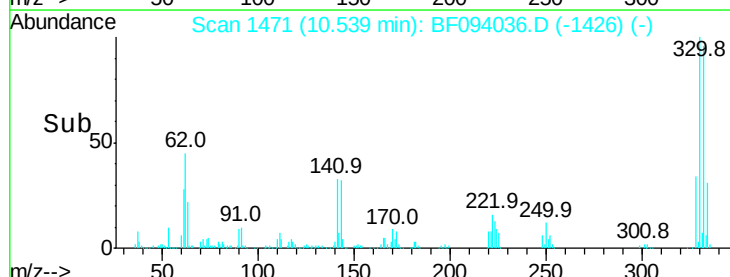
Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.6	115.0
141	38.0	31.4	47.2

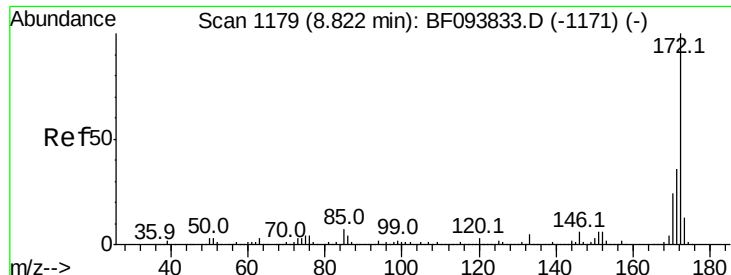


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

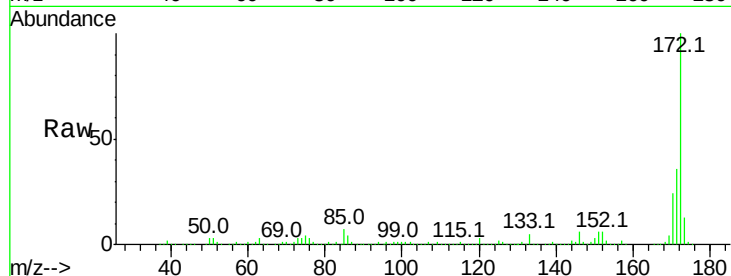




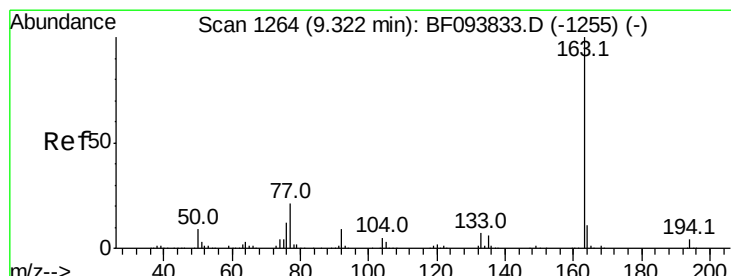
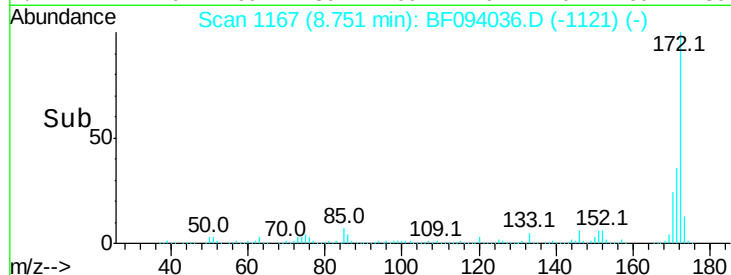
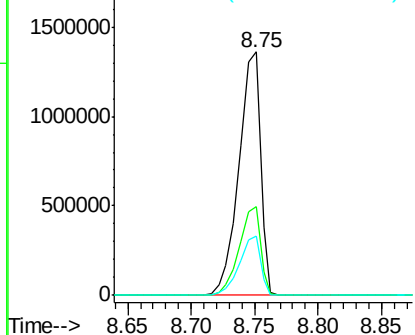
#44
2-Fluorobiphenyl
Concen: 78.59 ng
RT: 8.75 min Scan# 1167
Delta R.T. -0.03 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

Instrument :
BNA_F
ClientSampleId :
E2-O12-ESW

Tot Ion:172 Resp: 1611097
Ion Ratio Lower Upper
172 100
171 36.5 29.6 44.4
170 24.3 19.8 29.8

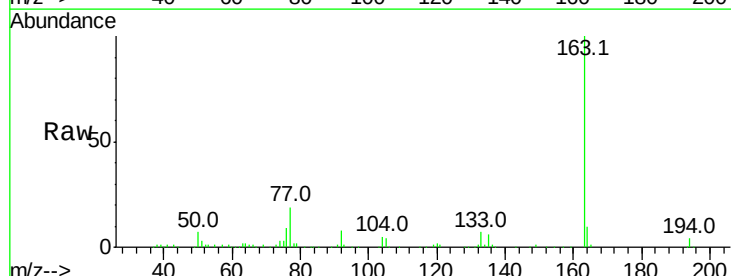


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

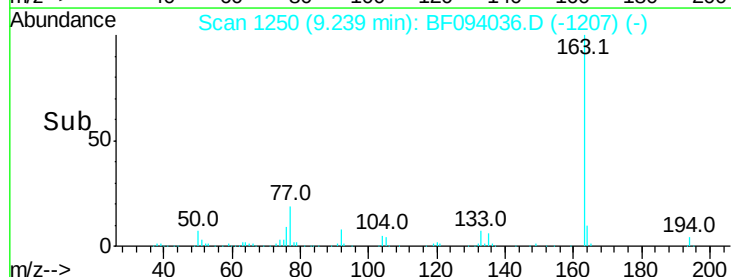
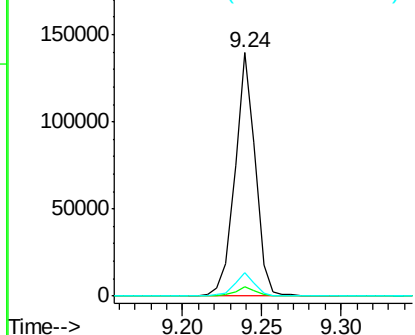


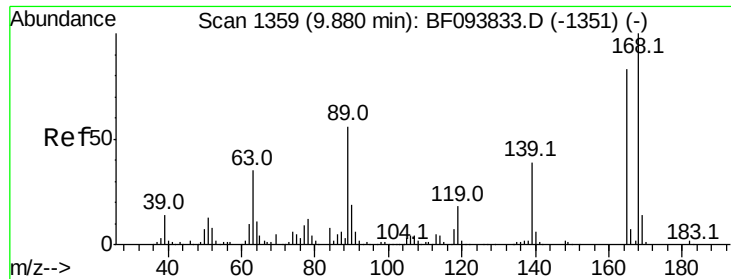
#49
Dimethylphthalate
Concen: 5.55 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.05 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

Tgt Ion:163 Resp: 123455
Ion Ratio Lower Upper
163 100
194 4.0 2.6 4.0#
164 9.9 8.4 12.6



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

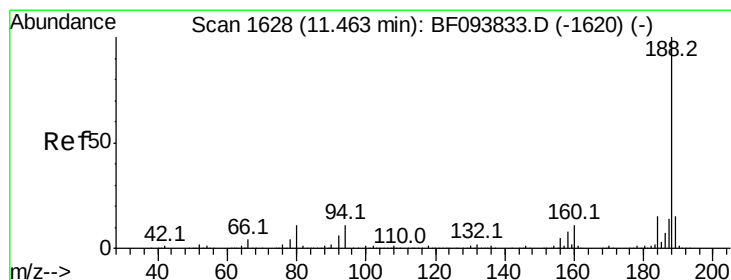
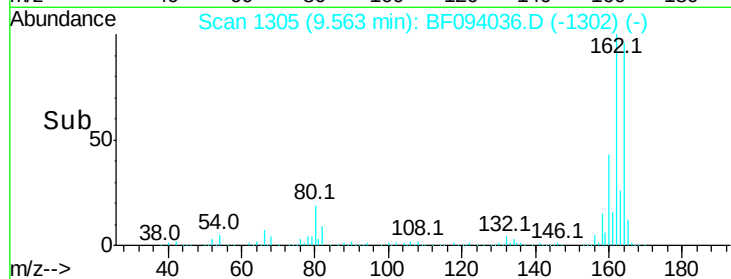
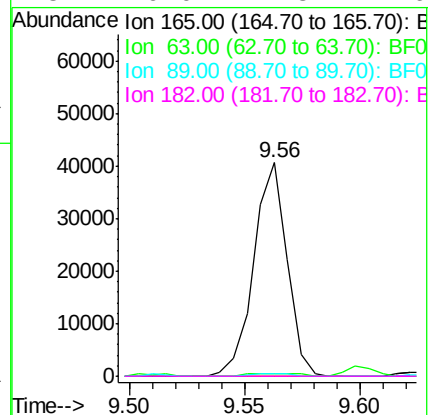
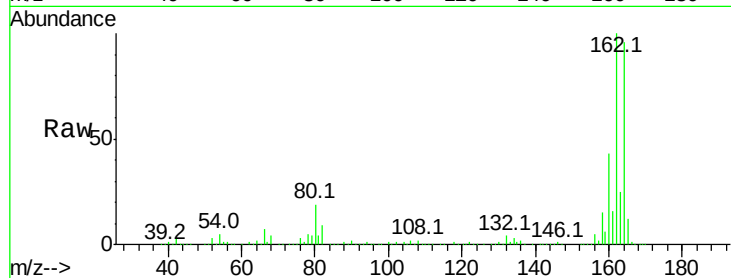




#56
 2,4-Dinitrotoluene
 Concen: 6.40 ng
 RT: 9.56 min Scan# 1305
 Delta R.T. -0.28 min
 Lab File: BF094036.D
 Acq: 29 Mar 2017 23:24

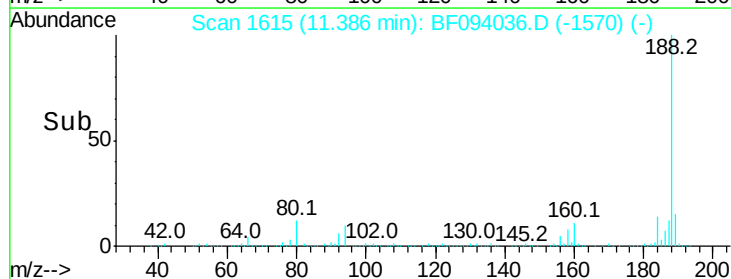
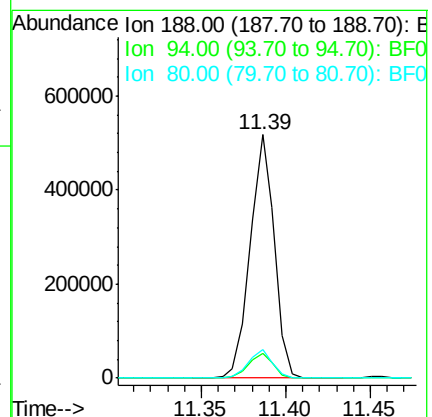
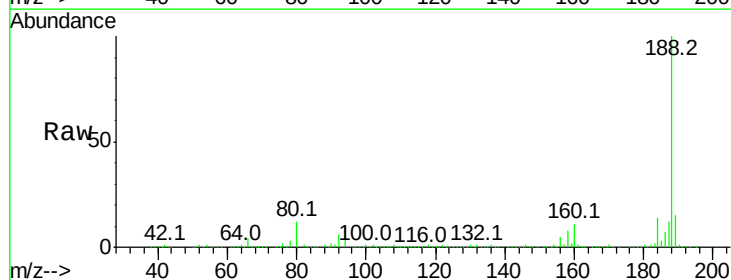
Instrument :
 BNA_F
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 E2-O12-ESW

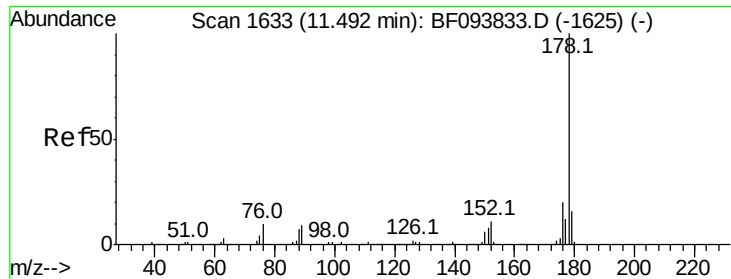
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	25.4	38.0#
89	1.4	46.4	69.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1615
 Delta R.T. -0.04 min
 Lab File: BF094036.D
 Acq: 29 Mar 2017 23:24

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.4	14.2
80	11.9	10.2	15.2





#70

Phenanthrene

Concen: 14.54 ng

RT: 11.42 min Scan# 1620

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

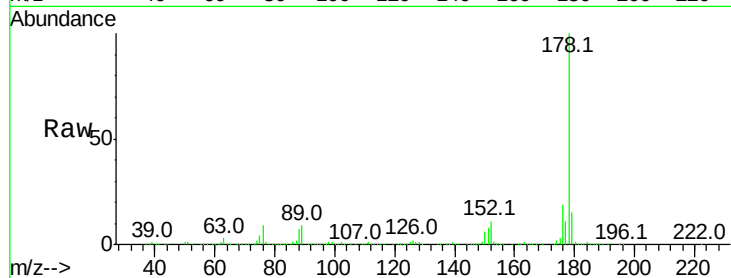
Tot Ion:178 Resp: 418654

Ion Ratio Lower Upper

178 100

176 19.2 16.2 24.4

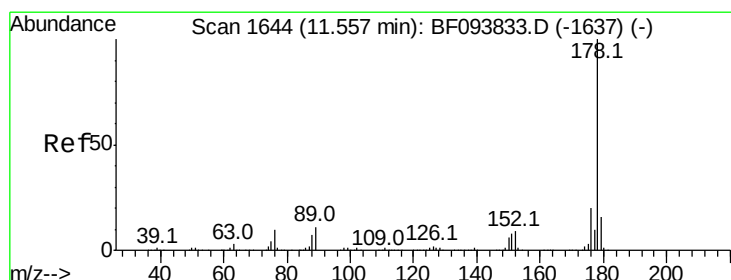
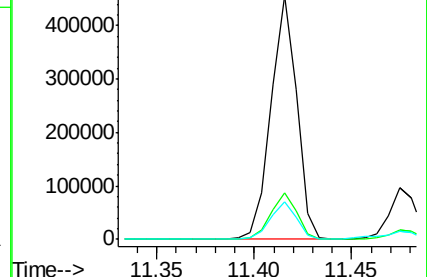
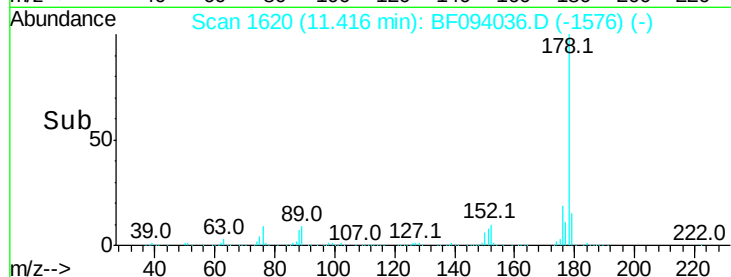
179 15.5 12.6 19.0



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



#71

Anthracene

Concen: 3.01 ng

RT: 11.47 min Scan# 1630

Delta R.T. -0.05 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

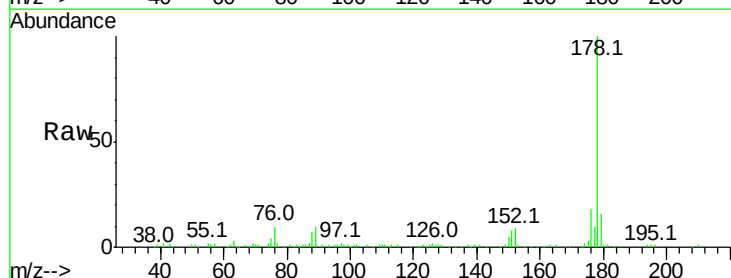
Tgt Ion:178 Resp: 89233

Ion Ratio Lower Upper

178 100

176 17.6 15.8 23.8

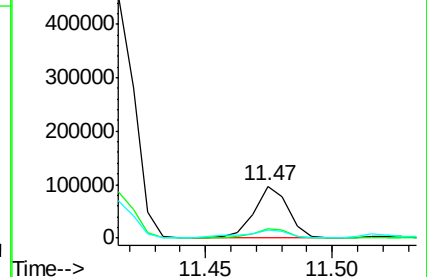
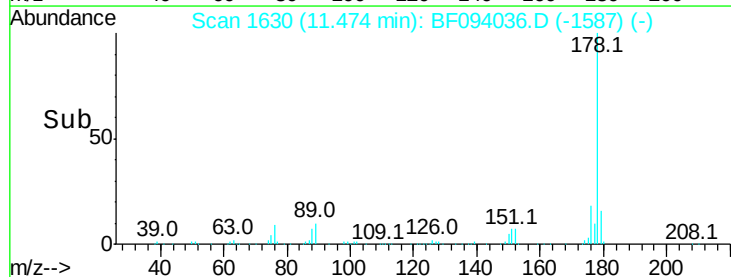
179 16.5 12.7 19.1

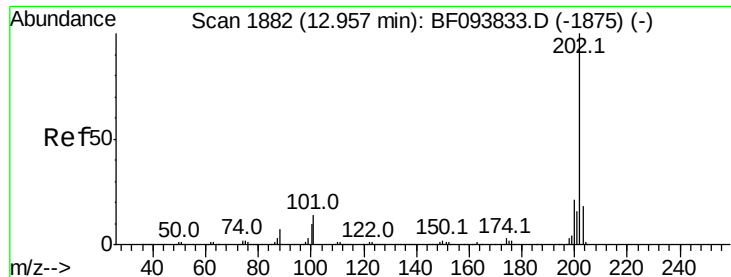


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.36 ng

RT: 12.88 min Scan# 1869

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

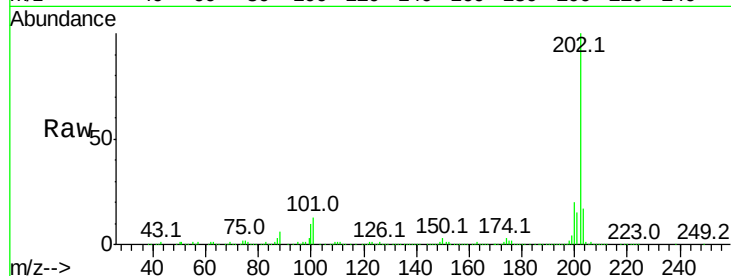
Tot Ion:202 Resp: 570903

Ion Ratio Lower Upper

202 100

101 12.7 0.0 33.2

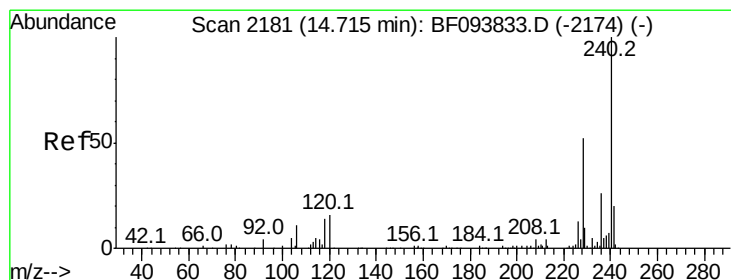
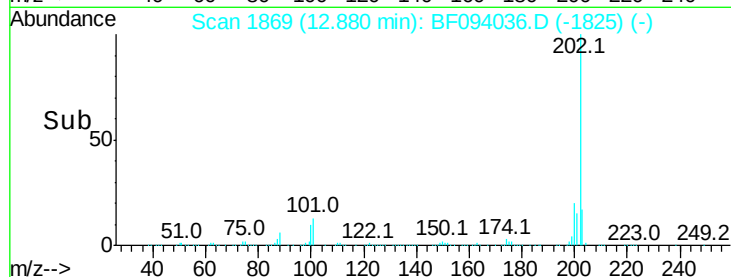
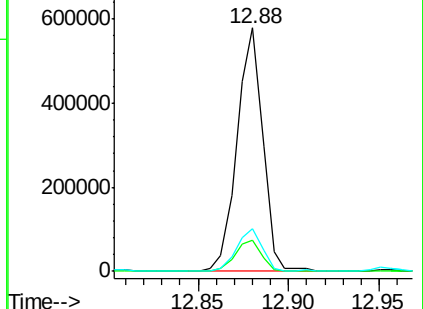
203 17.4 0.0 38.1



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: 14.64 min Scan# 2168

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

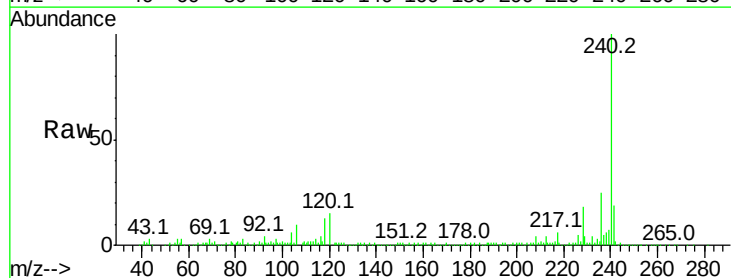
Tgt Ion:240 Resp: 341645

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

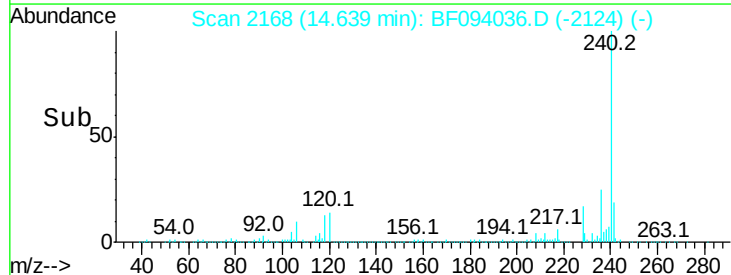
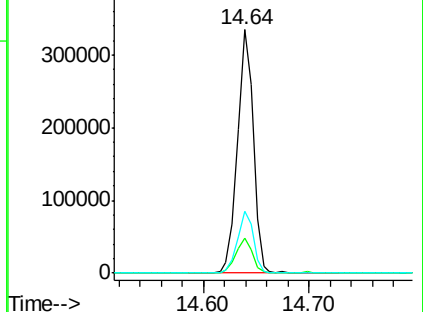
236 25.3 20.5 30.7

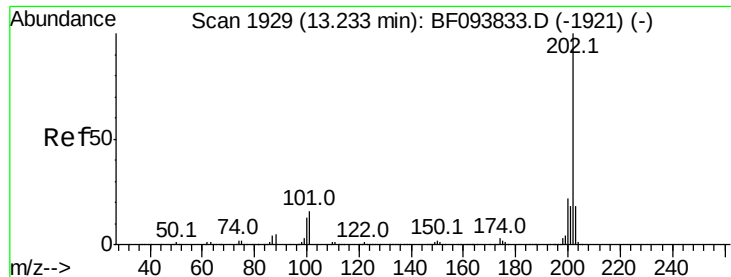


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 20.53 ng

RT: 13.16 min Scan# 1916

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

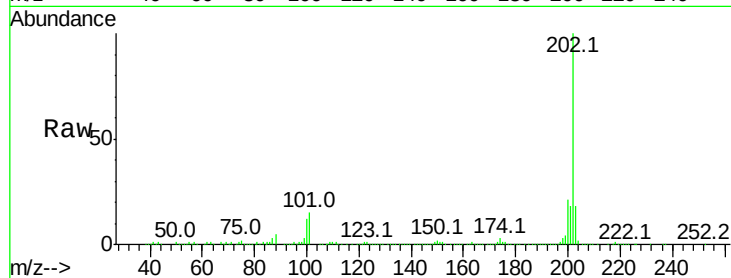
Tot Ion:202 Resp: 509006

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

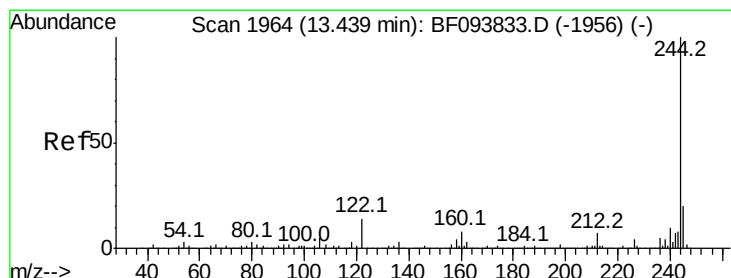
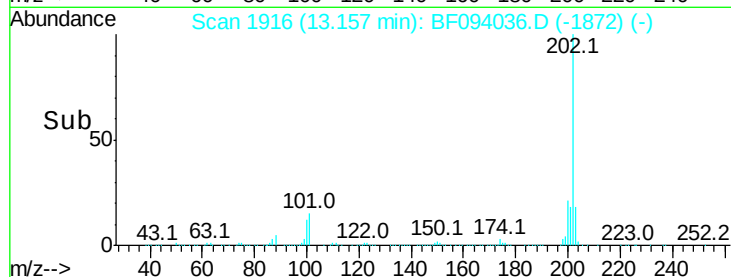
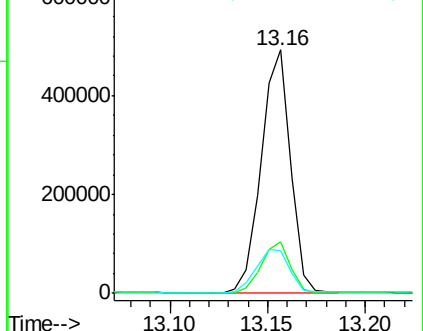
203 17.7 14.4 21.6



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: 65.03 ng

RT: 13.37 min Scan# 1952

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

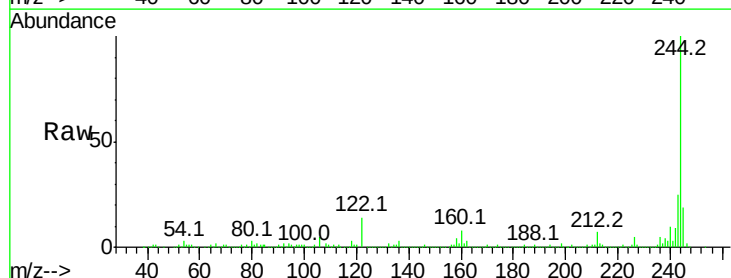
Tgt Ion:244 Resp: 991134

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

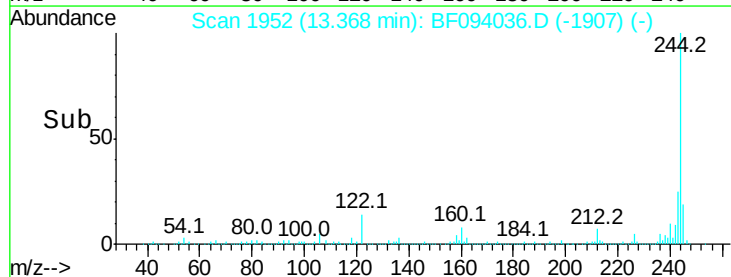
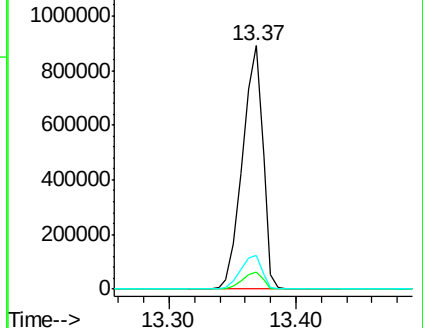
122 13.8 10.3 15.5

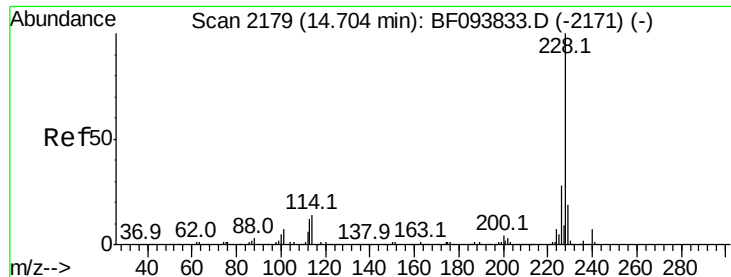


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.23 ng

RT: 14.63 min Scan# 2166

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

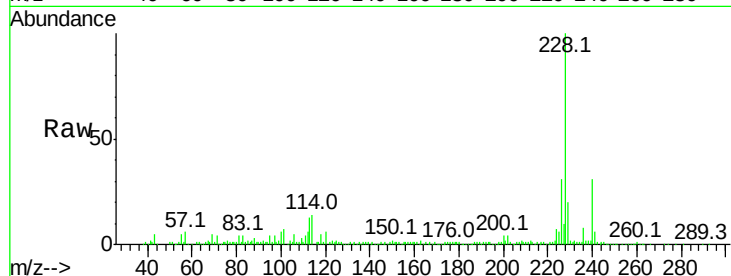
Tot Ion:228 Resp: 243681

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

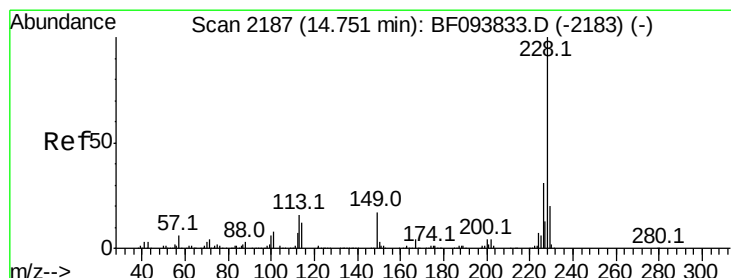
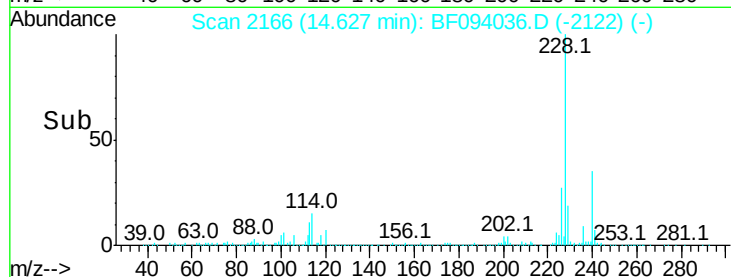
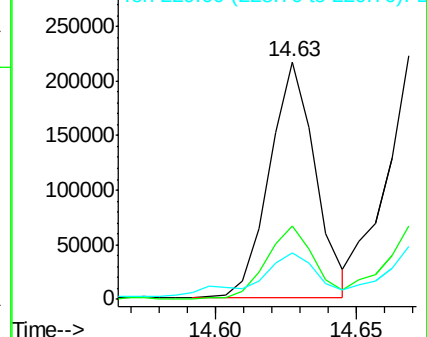
229 19.5 16.3 24.5



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



#82

Chrysene

Concen: 13.44 ng

RT: 14.67 min Scan# 2173

Delta R.T. -0.05 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

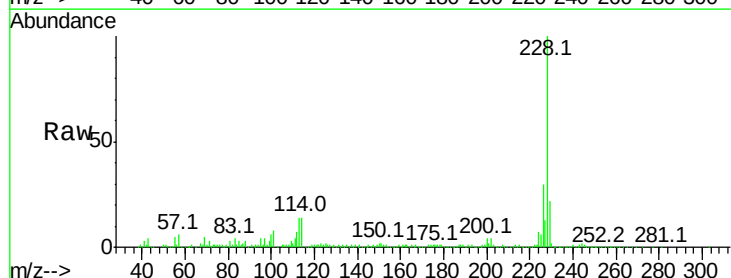
Tgt Ion:228 Resp: 248398

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

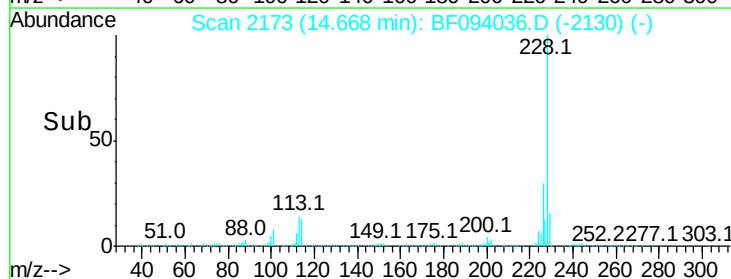
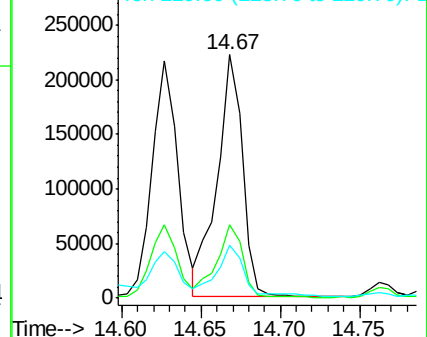
229 21.5 15.8 23.6

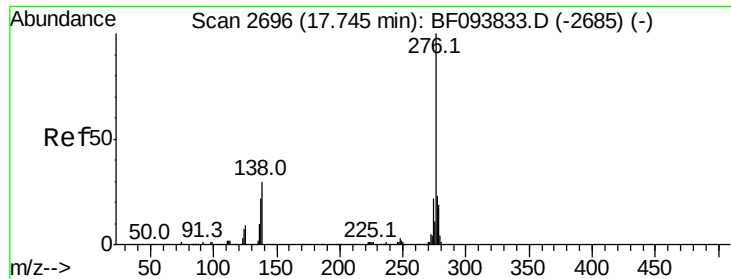


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

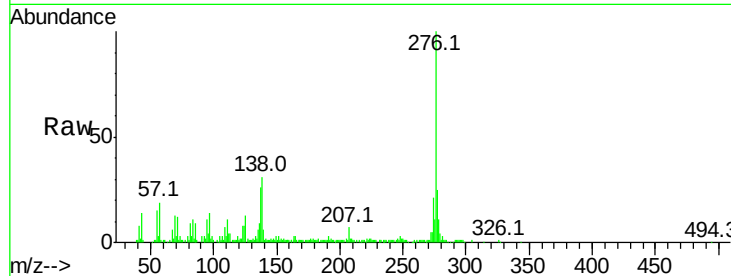




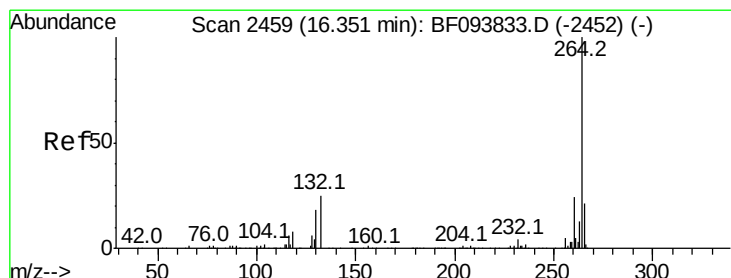
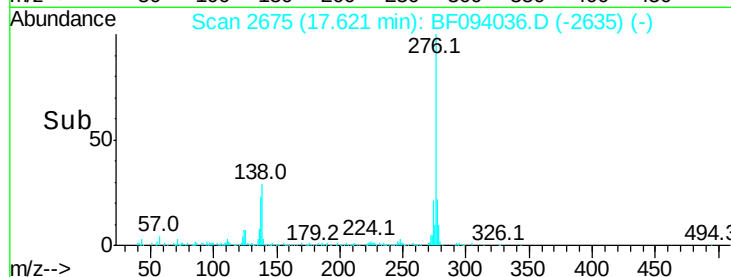
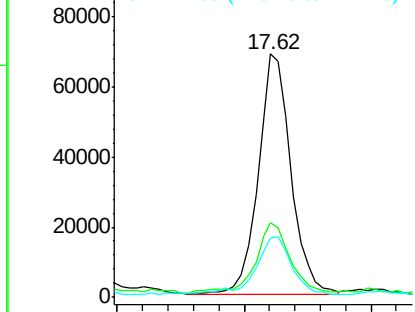
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.71 ng
 RT: 17.62 min Scan# 2675
 Delta R.T. -0.06 min
 Lab File: BF094036.D
 Acq: 29 Mar 2017 23:24

Instrument :
 BNA_F
 ClientSampleId :
 E2-O12-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.5	27.8	41.6
277	26.2	20.2	30.4

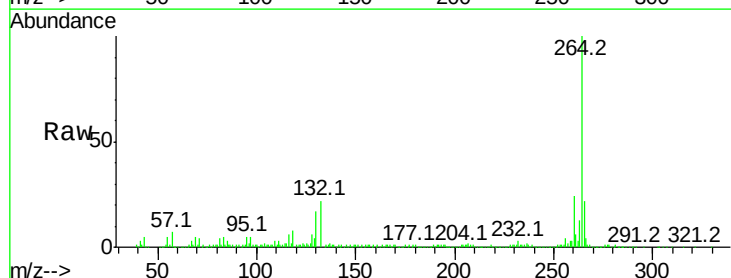


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

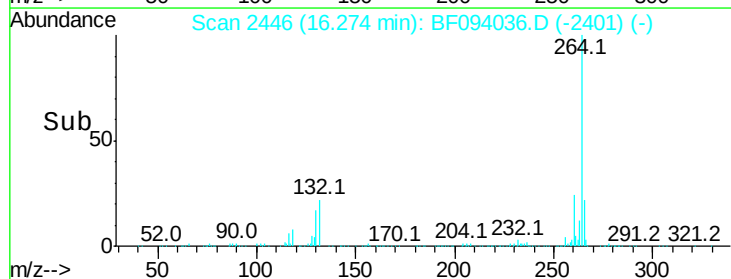
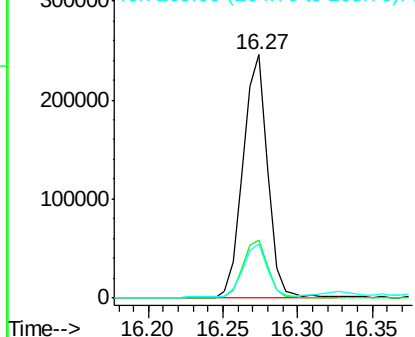


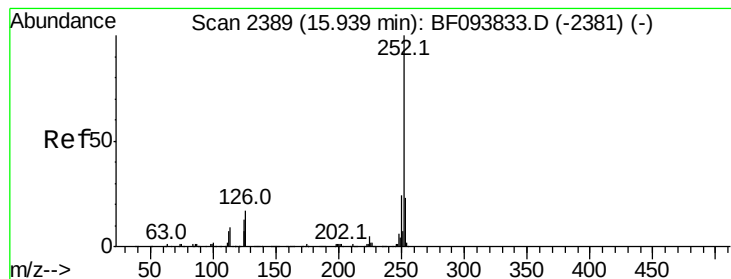
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.27 min Scan# 2446
 Delta R.T. -0.04 min
 Lab File: BF094036.D
 Acq: 29 Mar 2017 23:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.2	17.2	25.8



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: 22.04 ng

RT: 15.86 min Scan# 2376

Delta R.T. -0.04 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

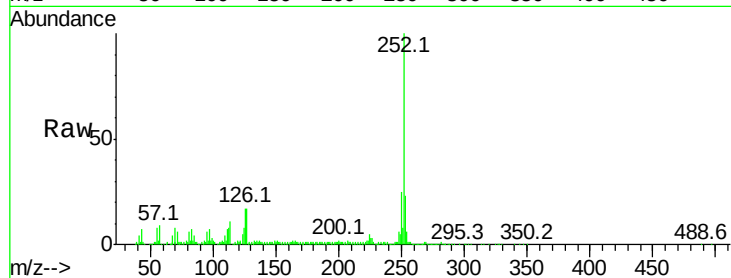
Tot Ion:252 Resp: 375959

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

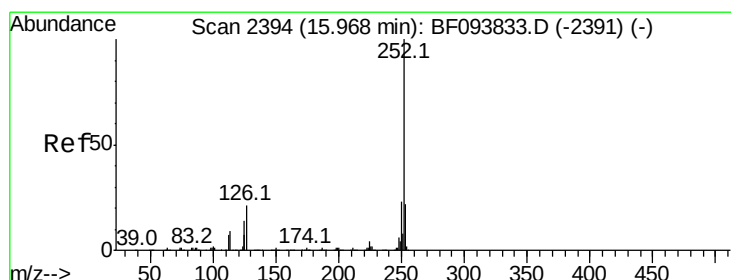
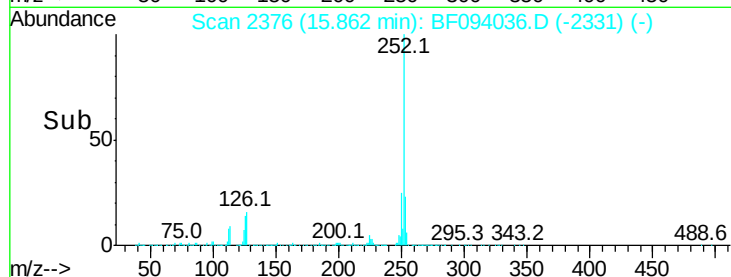
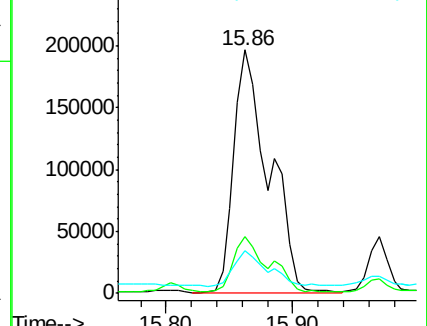
125 17.4 9.8 14.8#



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: 22.52 ng

RT: 15.86 min Scan# 2376

Delta R.T. -0.07 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

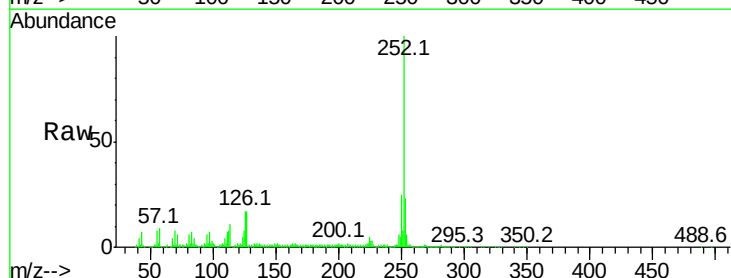
Tgt Ion:252 Resp: 375959

Ion Ratio Lower Upper

252 100

253 23.5 18.4 27.6

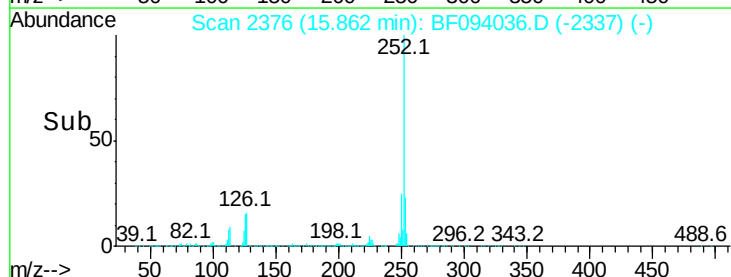
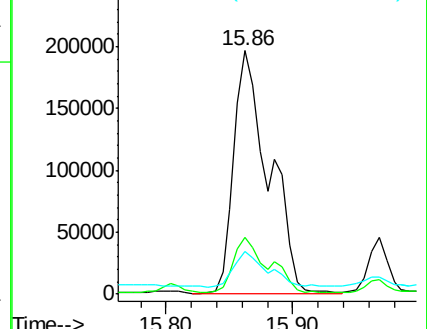
125 17.4 13.1 19.7

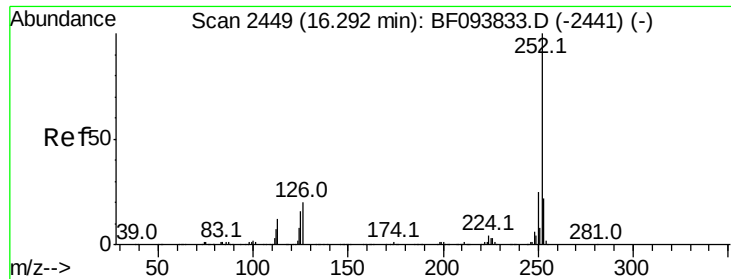


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

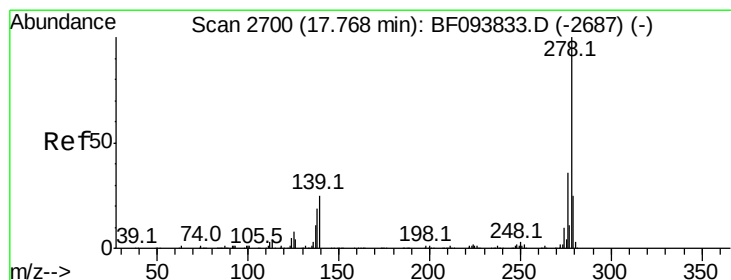
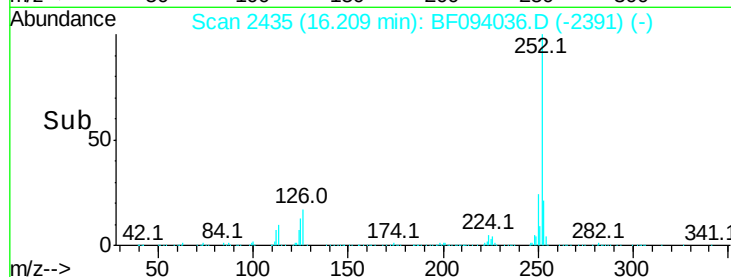
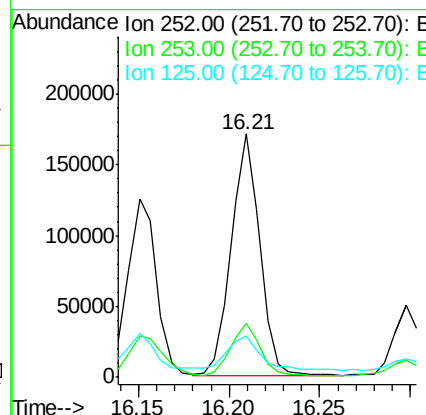
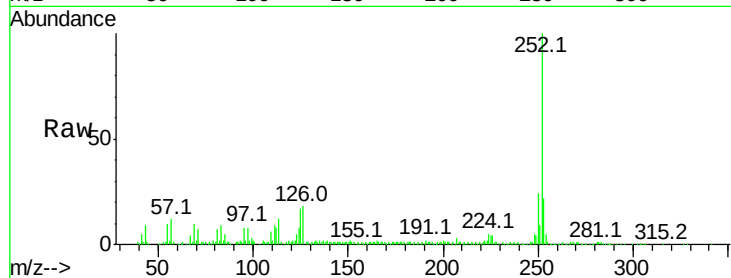




#89
Benzo(a)pyrene
Concen: 11.82 ng
RT: 16.21 min Scan# 2435
Delta R.T. -0.04 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

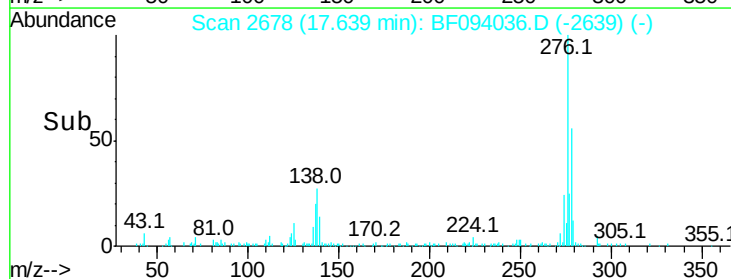
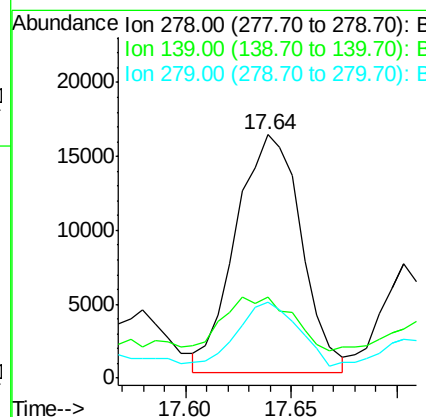
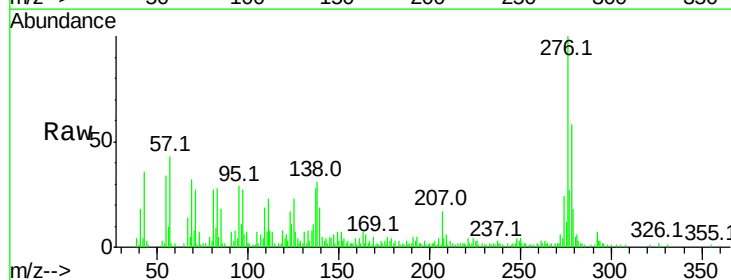
Instrument :
BNA_F
ClientSampleId :
E2-O12-ESW

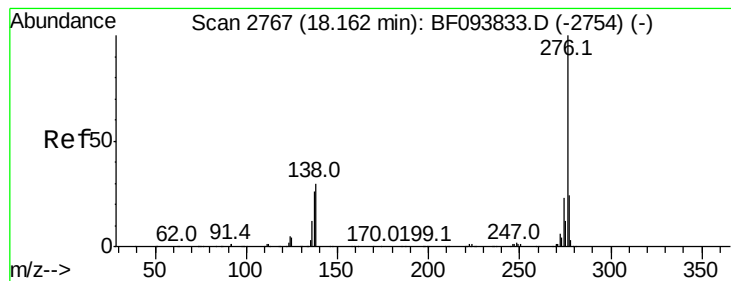
Tot Ion:252 Resp: 185697
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 17.1 11.0 16.4#



#90
Dibenzo(a,h)anthracene
Concen: 2.60 ng
RT: 17.64 min Scan# 2678
Delta R.T. -0.07 min
Lab File: BF094036.D
Acq: 29 Mar 2017 23:24

Tgt Ion:278 Resp: 34548
Ion Ratio Lower Upper
278 100
139 33.4 16.6 24.8#
279 31.5 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 8.82 ng

RT: 18.02 min Scan# 2743

Delta R.T. -0.08 min

Lab File: BF094036.D

Acq: 29 Mar 2017 23:24

Instrument :

BNA_F

ClientSampleId :

E2-O12-ESW

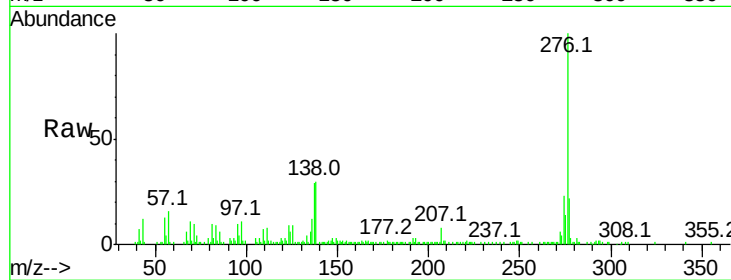
Tot Ion:276 Resp: 118218

Ion Ratio Lower Upper

276 100

277 22.5 18.6 28.0

138 29.5 25.4 38.0



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

