

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\
 Data File : BE091404.D
 Acq On : 17 Feb 2016 15:01
 Operator : UM/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Quant Time: Feb 17 23:58:58 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	44281	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	217555	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	143696	5.00	ng	0.00
14) Phenanthrene-d10	16.08	188	359334	5.00	ng	-0.01
18) Chrysene-d12	20.21	240	396876	5.00	ng	0.00
24) Perylene-d12	22.09	264	384031	5.00	ng	0.00

System Monitoring Compounds						
2) 2-Fluorophenol	4.94	112	7907	0.95	ng	0.00
3) Phenol-d6	6.56	99	12262	1.01	ng	-0.01
5) Nitrobenzene-d5	8.16	82	11418	1.03	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	4235	0.92	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	36337	0.97	ng	0.00
20) Terphenyl-d14	18.61	244	61276	1.04	ng	0.00

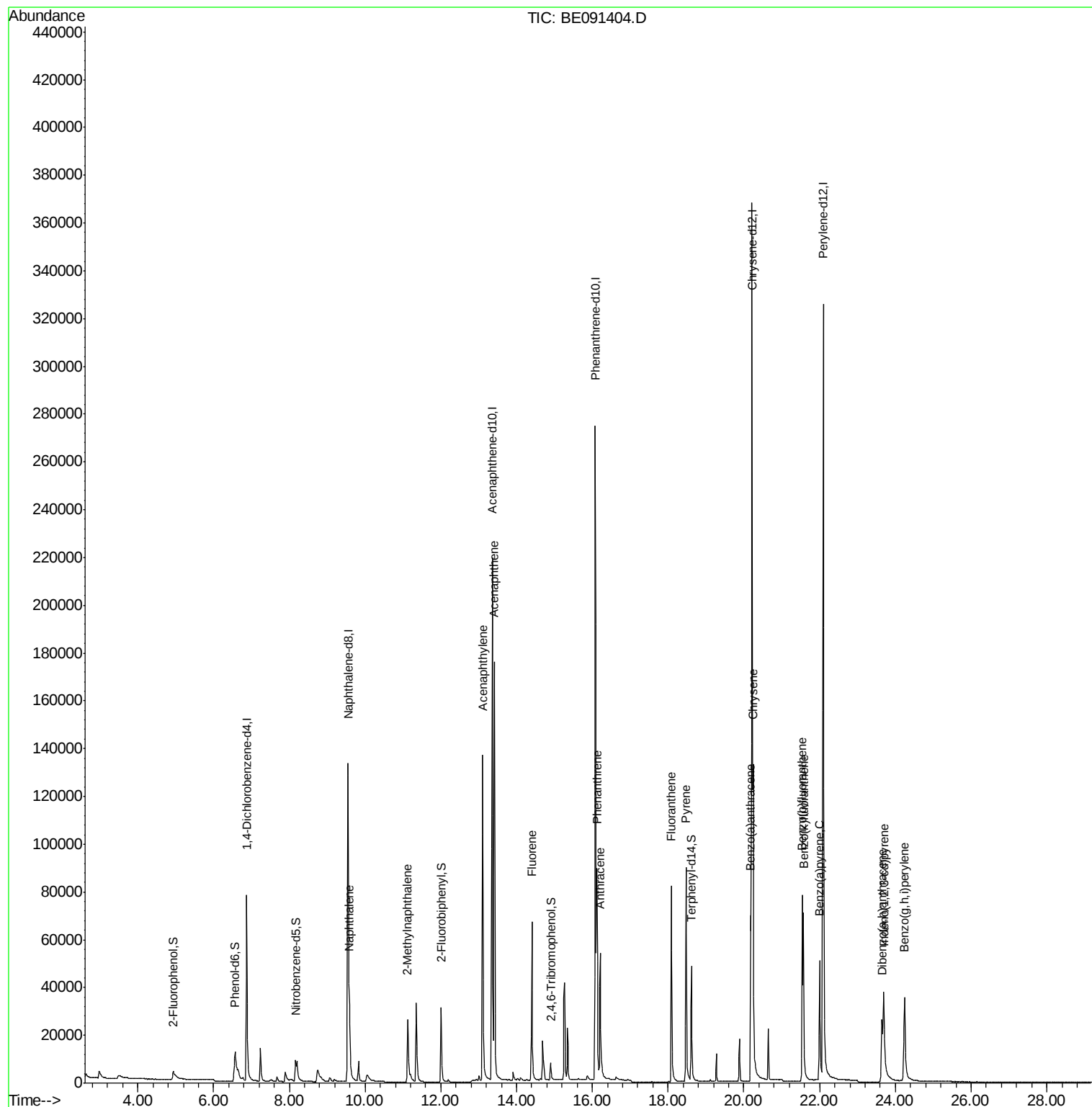
Target Compounds						Qvalue
6) Naphthalene	9.59	128	46227	0.94	ng	99
7) 2-Methylnaphthalene	11.12	142	27495	1.01	ng	99
11) Acenaphthylene	13.10	152	206270	0.97	ng	99
12) Acenaphthene	13.42	154	36533	0.93	ng	98
13) Fluorene	14.40	166	49625	0.97	ng	99
15) Phenanthrene	16.12	178	89486	0.95	ng	99
16) Anthracene	16.21	178	76435	0.97	ng	100
17) Fluoranthene	18.09	202	86580	0.97	ng	99
19) Pyrene	18.47	202	90440	1.05	ng	100
21) Benzo(a)anthracene	20.18	228	69419	0.93	ng	99
22) Chrysene	20.24	228	103220	0.99	ng	99
23) Indeno(1,2,3-cd)pyrene	23.69	276	64263	0.85	ng	99
25) Benzo(b)fluoranthene	21.54	252	79799	0.96	ng	99
26) Benzo(k)fluoranthene	21.57	252	89031	0.94	ng	99
27) Benzo(a)pyrene	22.00	252	69520	0.93	ng	99
28) Dibenzo(a,h)anthracene	23.65	278	53190	0.83	ng	98
29) Benzo(g,h,i)perylene	24.25	276	74956	0.91	ng	99

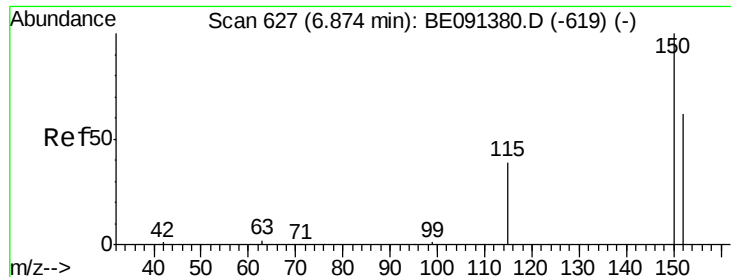
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 627

Delta R.T. 0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

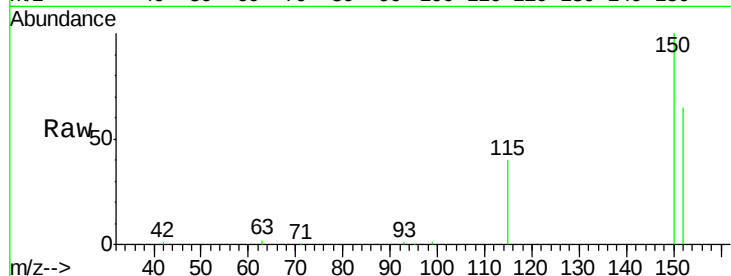
Tot Ion:152 Resp: 44281

Ion Ratio Lower Upper

152 100

150 154.0 128.9 193.3

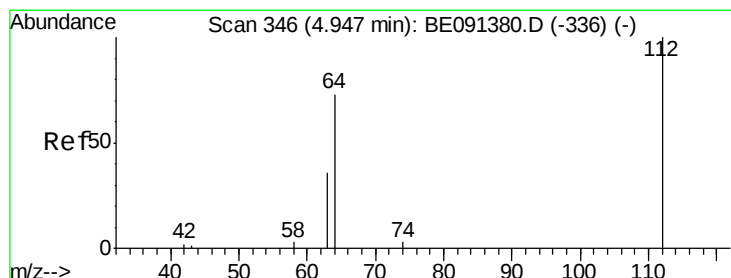
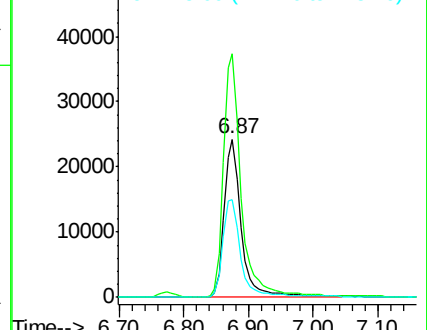
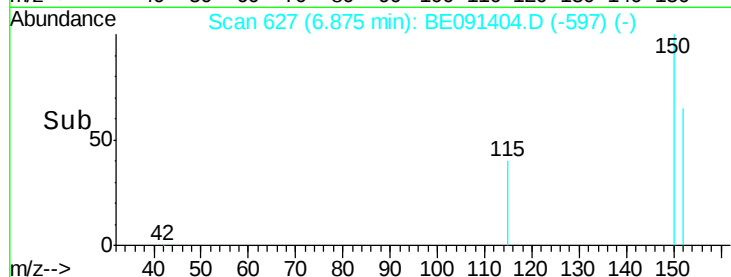
115 61.9 50.9 76.3



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



#2

2-Fluorophenol

Concen: 0.95 ng

RT: 4.94 min Scan# 345

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

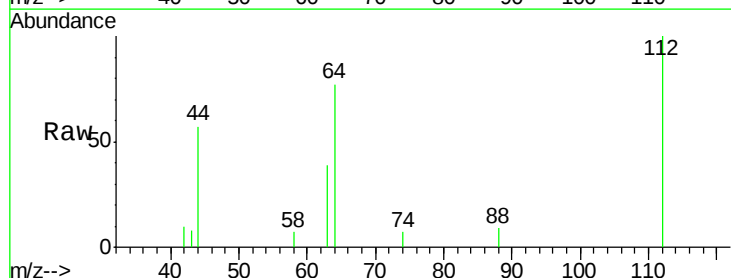
Tgt Ion:112 Resp: 7907

Ion Ratio Lower Upper

112 100

64 75.9 60.5 90.7

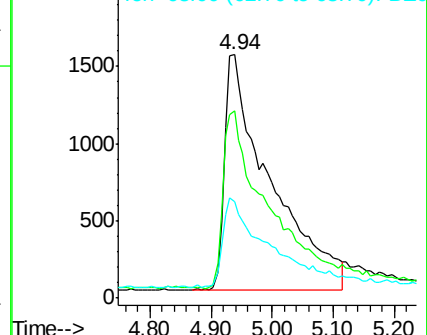
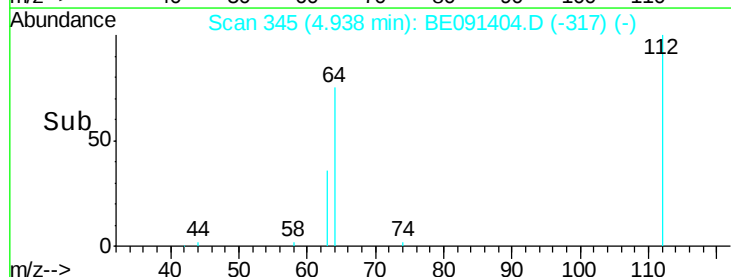
63 38.3 29.8 44.8

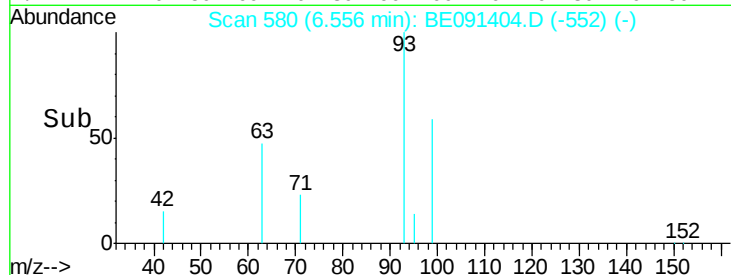
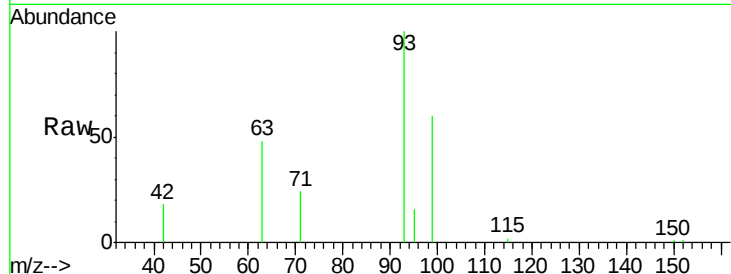
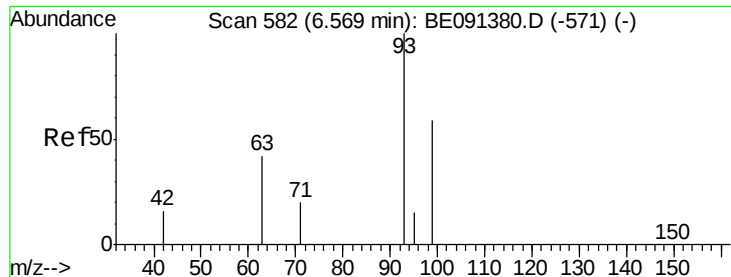


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

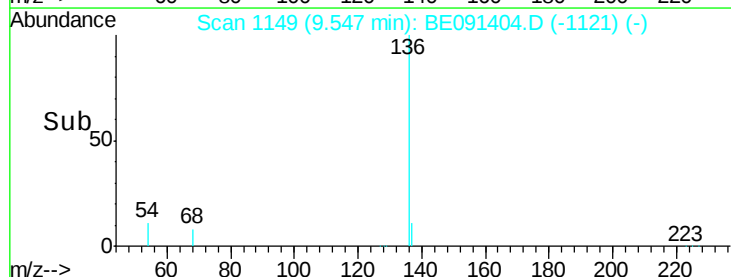
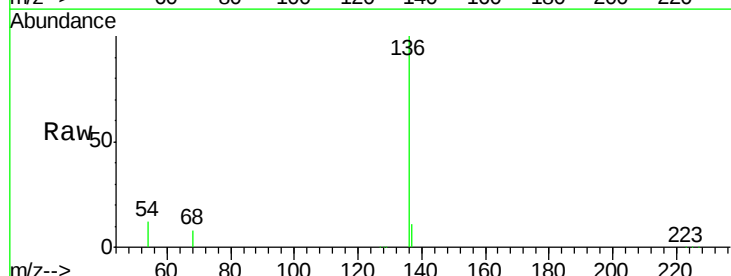
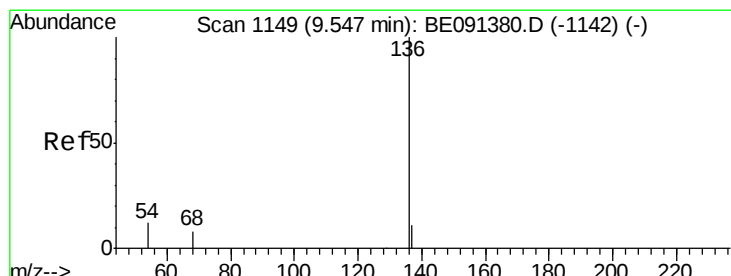
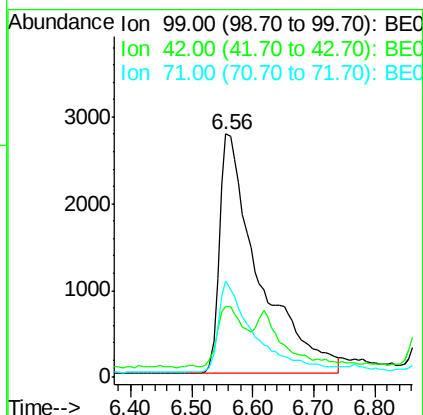




#3
 Phenol-d6
 Concen: 1.01 ng
 RT: 6.56 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: BE091404.D
 Acq: 17 Feb 2016 15:01

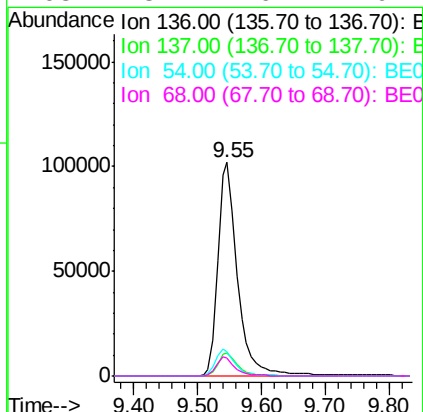
Tot Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.3	19.9
71	34.1	25.6	38.4

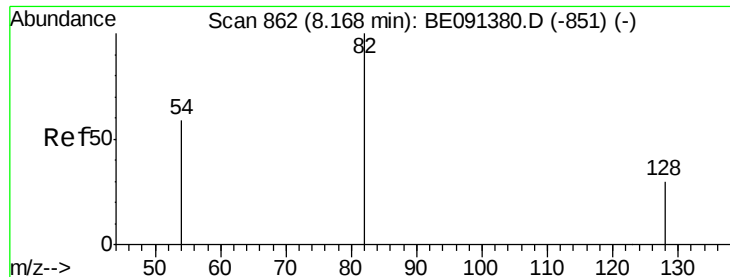
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001



#4
 Naphthalene-d8
 Concen: 5.00 ng
 RT: 9.55 min Scan# 1149
 Delta R.T. -0.00 min
 Lab File: BE091404.D
 Acq: 17 Feb 2016 15:01

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	11.6	9.3	13.9
68	8.2	6.7	10.1





#5

Nitrobenzene-d5

Concen: 1.03 ng

RT: 8.16 min Scan# 861

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

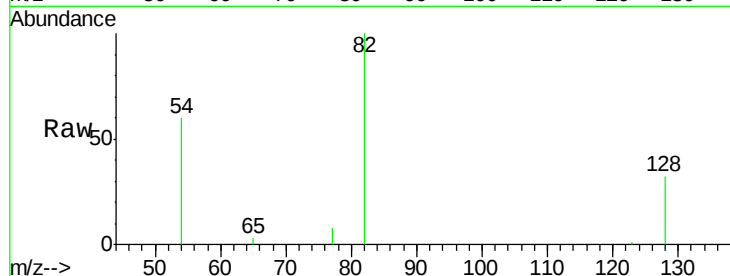
Tot Ion: 82 Resp: 11418

Ion Ratio Lower Upper

82 100

128 31.6 25.0 37.4

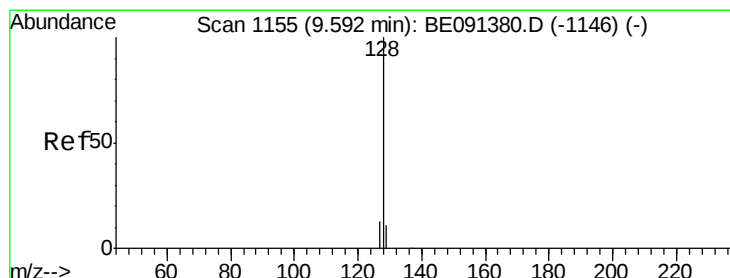
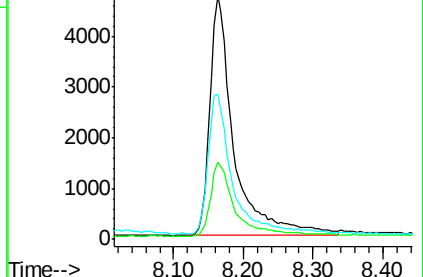
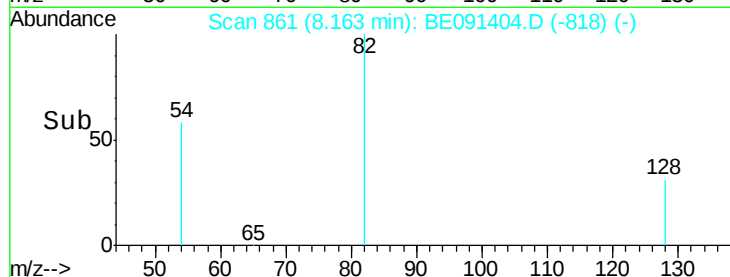
54 59.6 48.1 72.1



Abundance Ion 82.00 (81.70 to 82.70): BE091380.D (-851) (-)

Ion 128.00 (127.70 to 128.70): BE091380.D (-851) (-)

Ion 54.00 (53.70 to 54.70): BE091380.D (-851) (-)



#6

Naphthalene

Concen: 0.94 ng

RT: 9.59 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

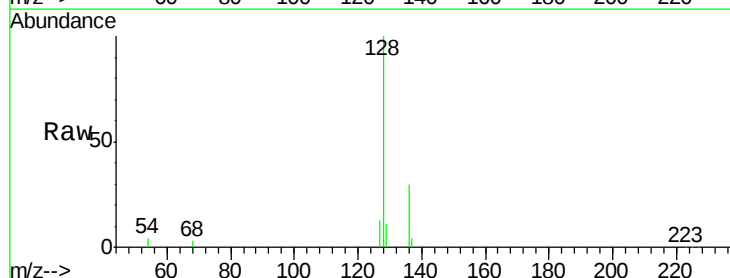
Tgt Ion: 128 Resp: 46227

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

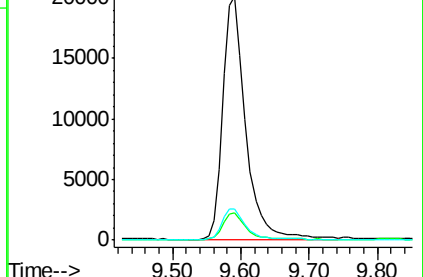
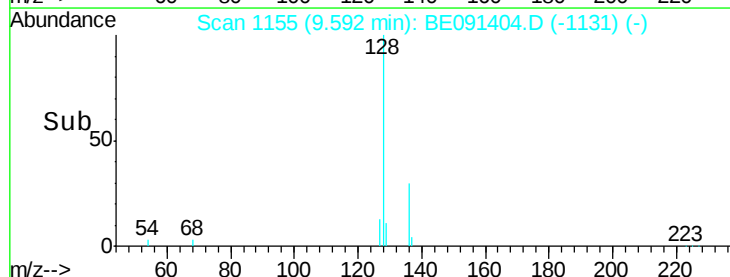
127 12.6 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE091380.D (-1146) (-)

Ion 129.00 (128.70 to 129.70): BE091380.D (-1146) (-)

Ion 127.00 (126.70 to 127.70): BE091380.D (-1146) (-)





#7

2-Methylnaphthalene

Concen: 1.01 ng

RT: 11.12 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

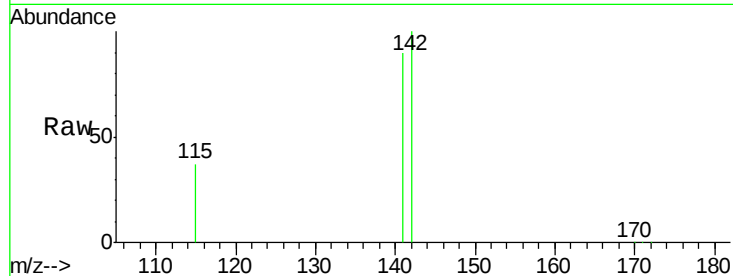
Tot Ion:142 Resp: 27495

Ion Ratio Lower Upper

142 100

141 90.0 72.3 108.5

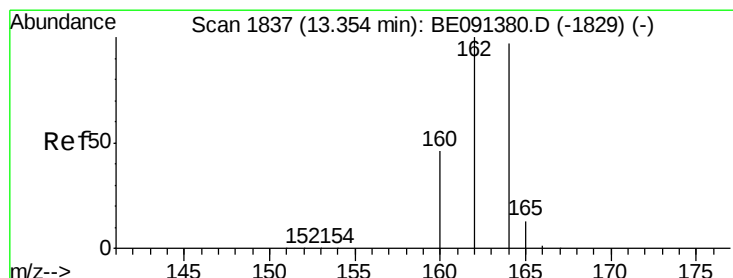
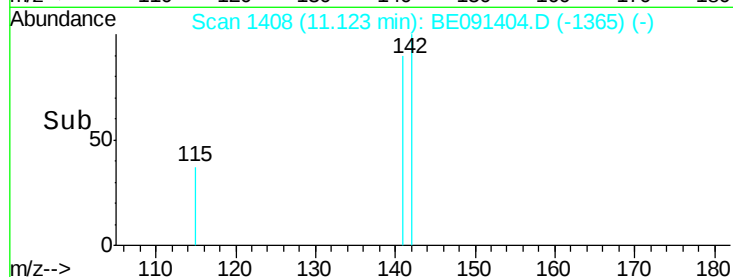
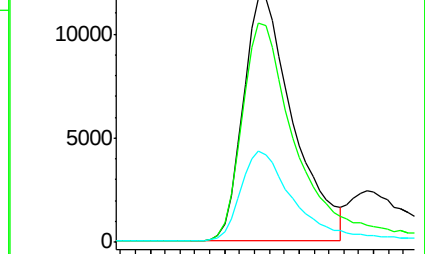
115 37.3 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1837

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

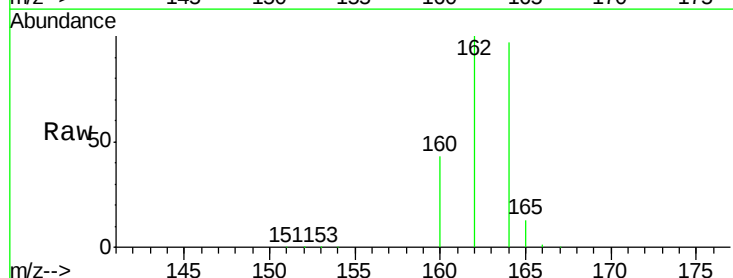
Tgt Ion:164 Resp: 143696

Ion Ratio Lower Upper

164 100

162 103.2 82.2 123.2

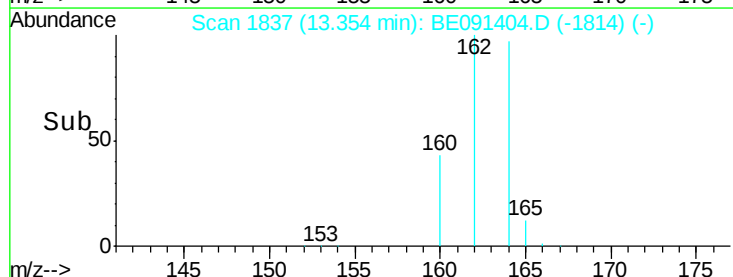
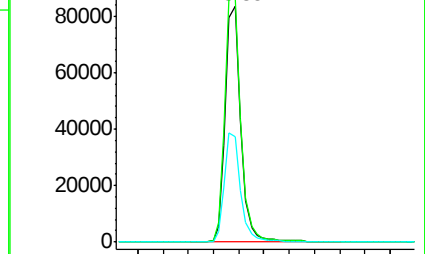
160 44.5 37.8 56.8



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





#9

2,4,6-Tribromophenol

Concen: 0.92 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

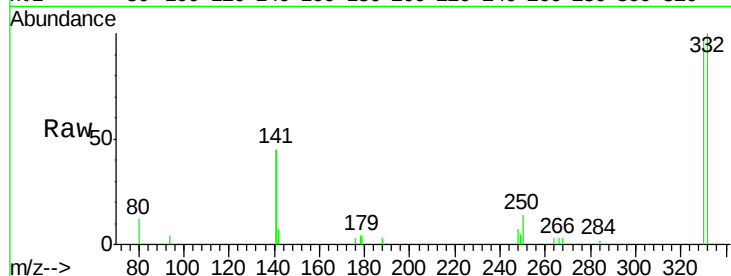
Tot Ion:330 Resp: 4235

Ion Ratio Lower Upper

330 100

332 96.7 78.8 118.2

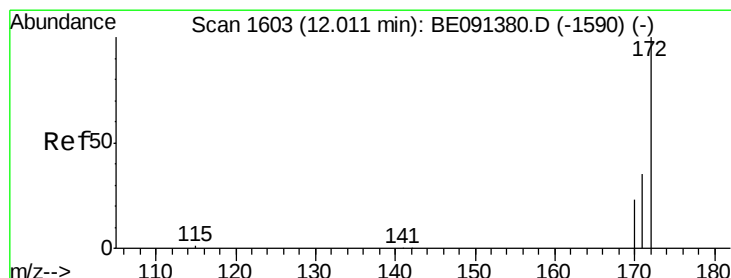
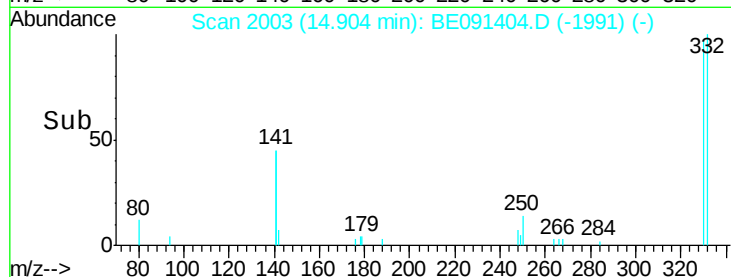
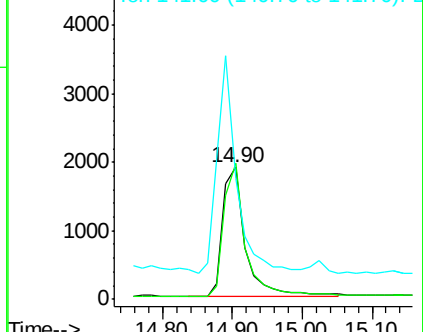
141 143.0 105.1 157.7



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



#10

2-Fluorobiphenyl

Concen: 0.97 ng

RT: 12.01 min Scan# 1602

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

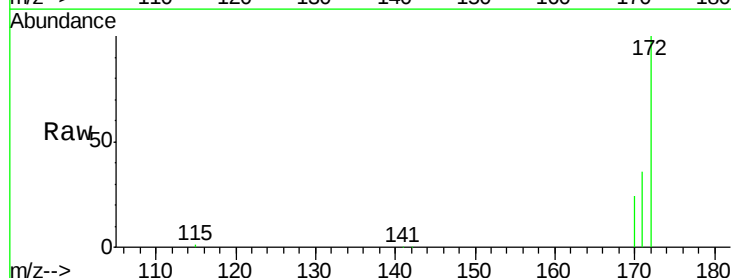
Tgt Ion:172 Resp: 36337

Ion Ratio Lower Upper

172 100

171 35.6 27.8 41.8

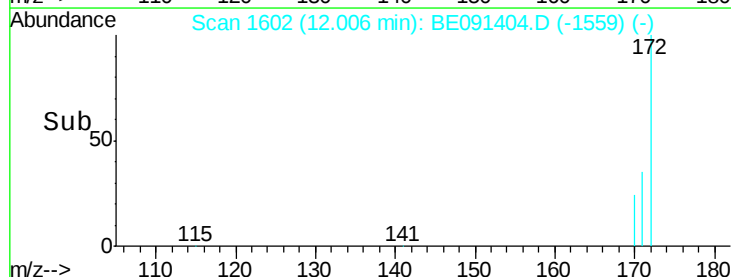
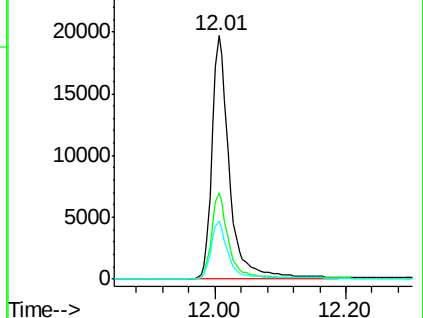
170 24.0 18.6 28.0

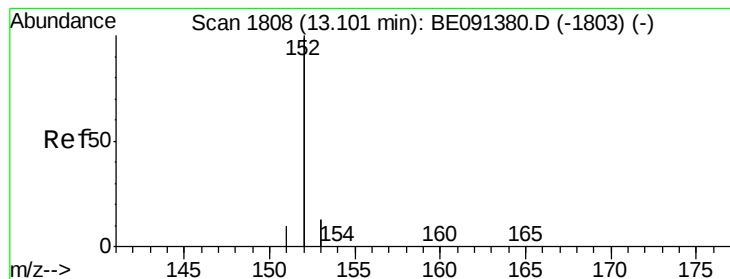


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 0.97 ng

RT: 13.10 min Scan# 1808

Delta R.T. 0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

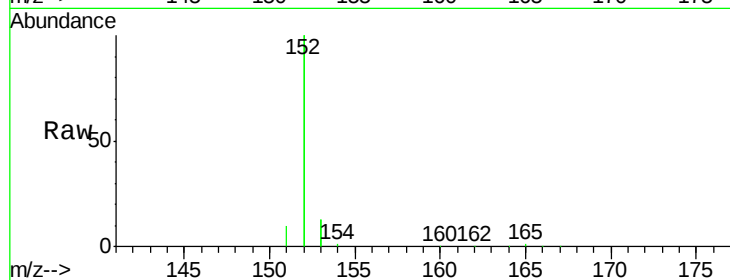
BNA_E

ClientSampleId :

SSTDCCC001

Tot Ion:152 Resp: 206270

Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	13.1	10.2	15.4



Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

150000

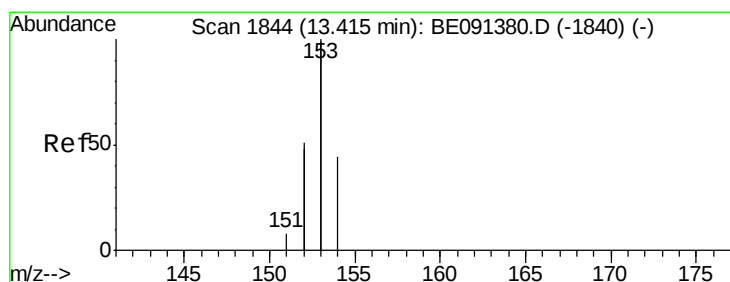
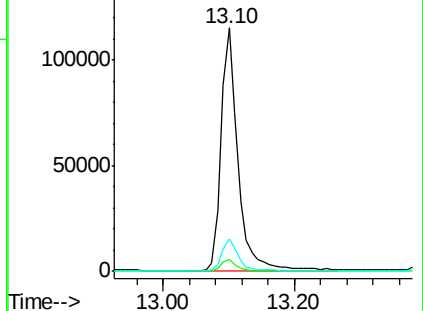
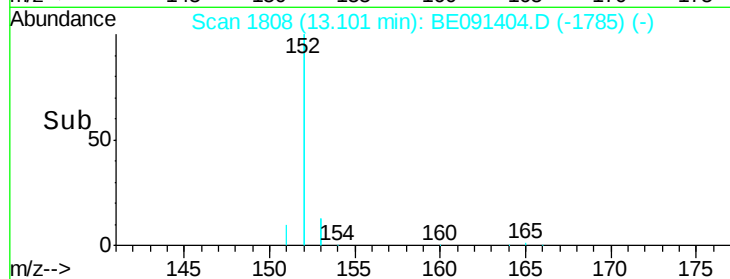
100000

50000

0

Time-->

13.00 13.20



#12

Acenaphthene

Concen: 0.93 ng

RT: 13.42 min Scan# 1844

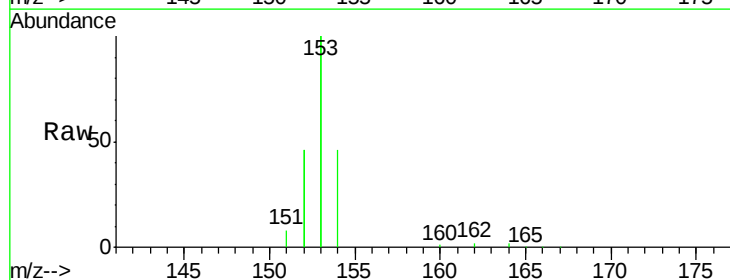
Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Tgt Ion:154 Resp: 36533

Ion	Ratio	Lower	Upper
154	100		
153	463.5	369.8	554.8
152	233.8	194.4	291.6



Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

120000

100000

80000

60000

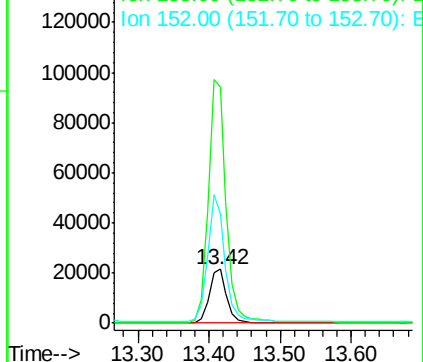
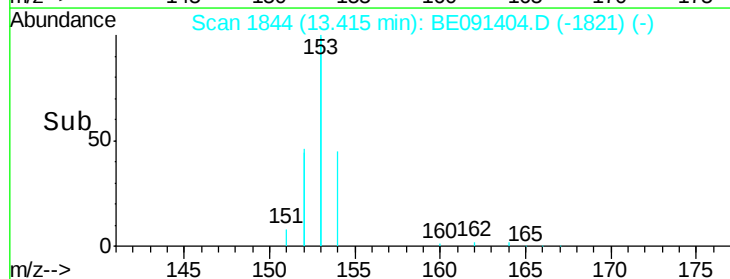
40000

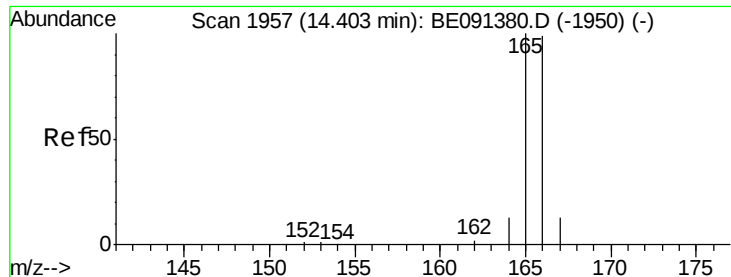
20000

0

Time-->

13.30 13.40 13.50 13.60





#13

Fluorene

Concen: 0.97 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

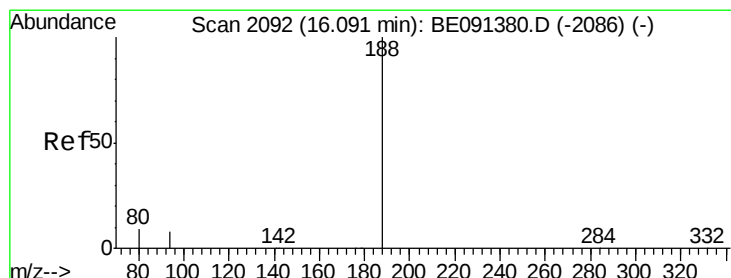
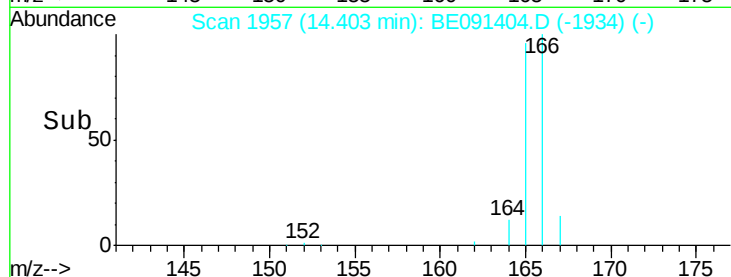
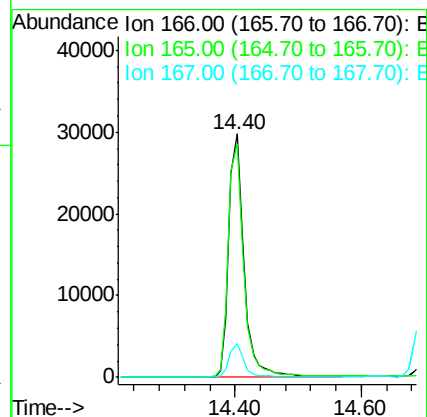
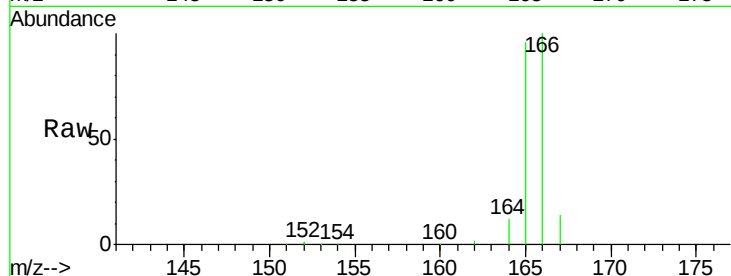
Tot Ion:166 Resp: 49625

Ion Ratio Lower Upper

166 100

165 98.4 79.3 118.9

167 13.6 10.6 16.0



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

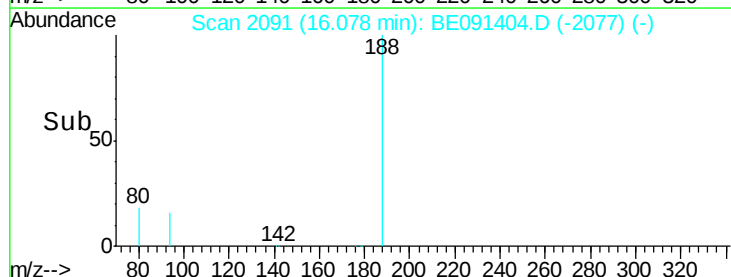
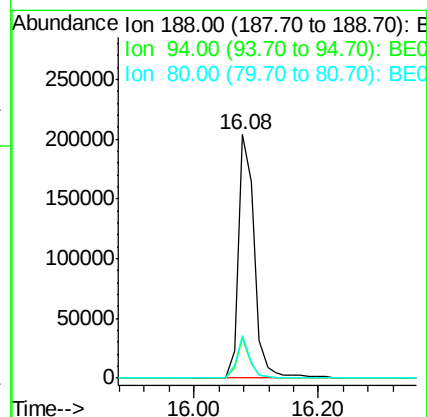
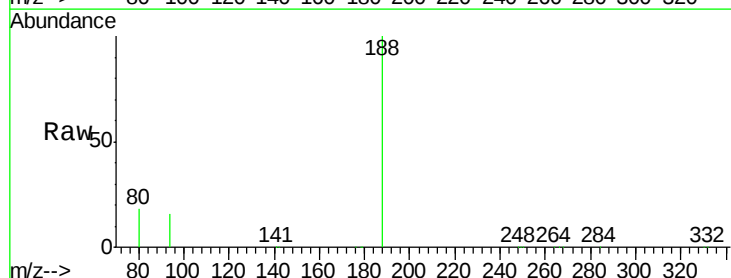
Tgt Ion:188 Resp: 359334

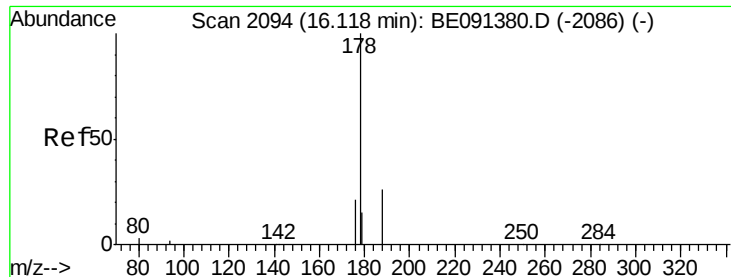
Ion Ratio Lower Upper

188 100

94 16.3 6.6 10.0#

80 17.7 7.0 10.6#





#15

Phenanthrene

Concen: 0.95 ng

RT: 16.12 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

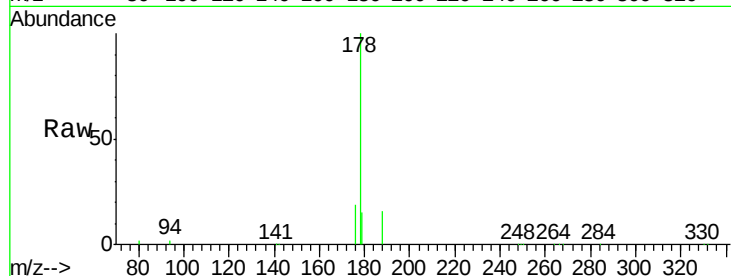
BNA_E

ClientSampleId :

SSTDCCC001

Tot Ion:178 Resp: 89486

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.5	12.7	19.1

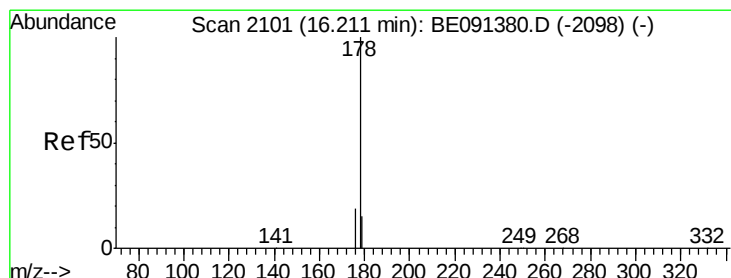
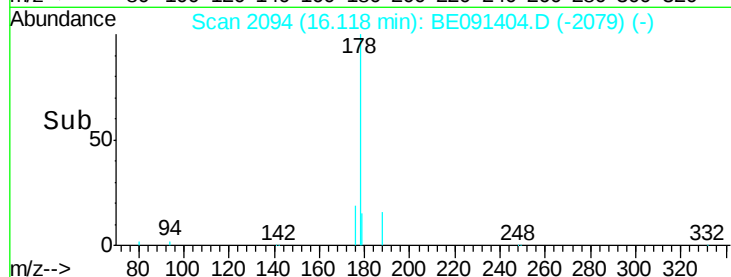
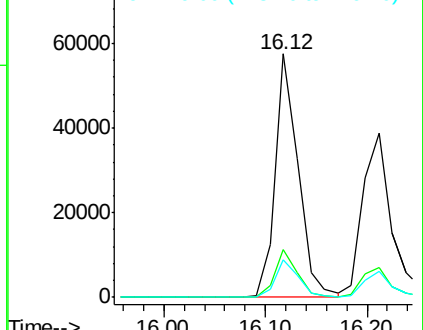


Abundance

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



#16

Anthracene

Concen: 0.97 ng

RT: 16.21 min Scan# 2101

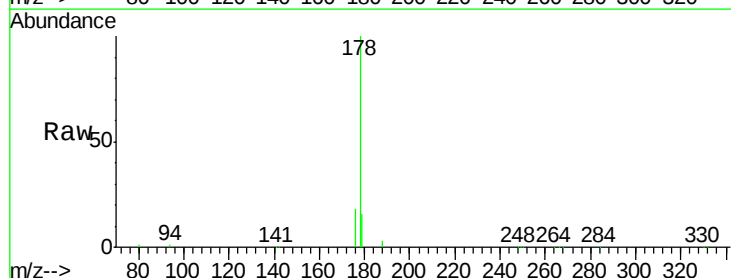
Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Tgt Ion:178 Resp: 76435

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.5	12.1	18.1

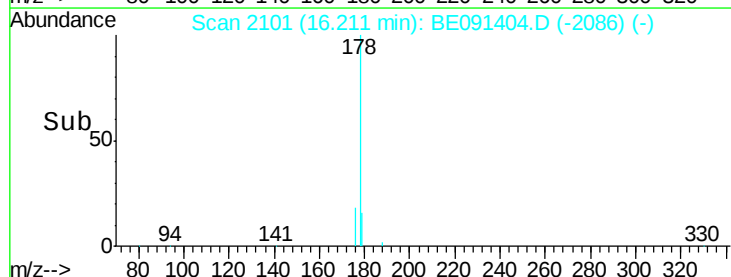
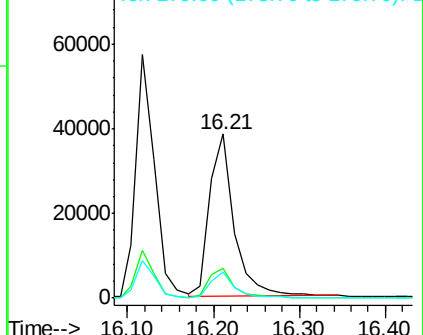


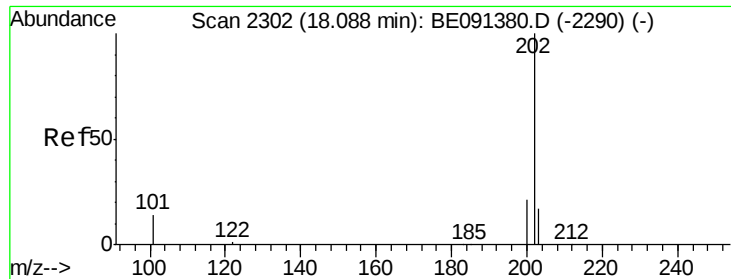
Abundance

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

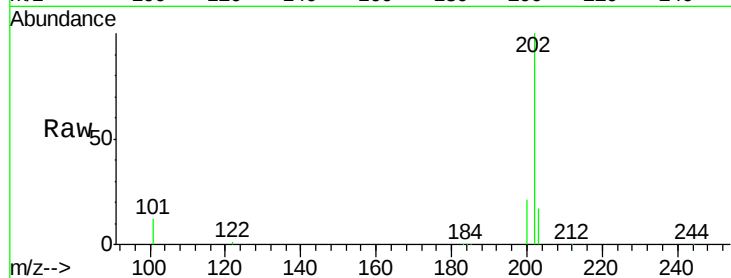




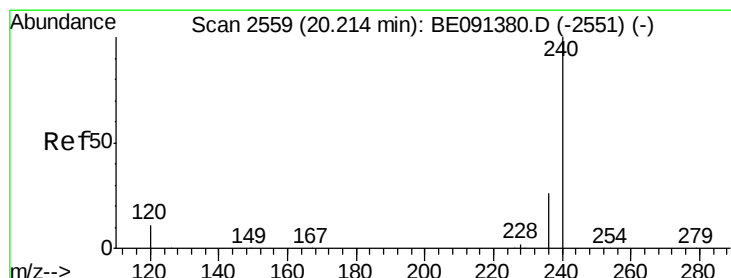
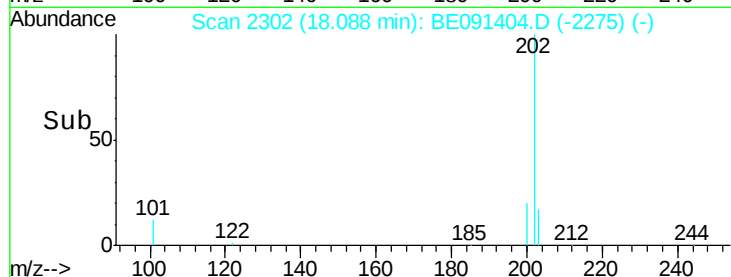
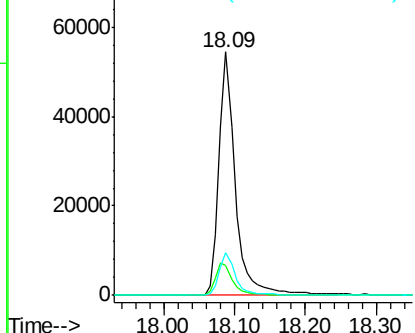
#17
 Fluoranthene
 Concen: 0.97 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. -0.00 min
 Lab File: BE091404.D
 Acq: 17 Feb 2016 15:01

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.0	10.5	15.7
203	17.4	13.9	20.9

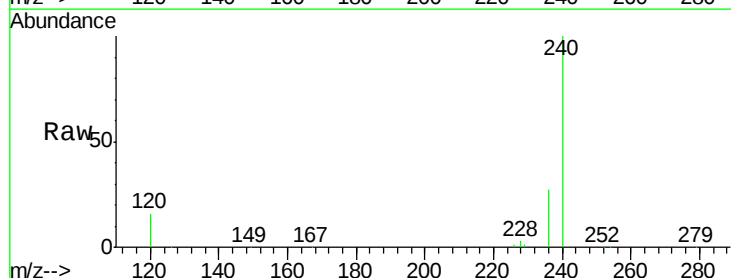


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

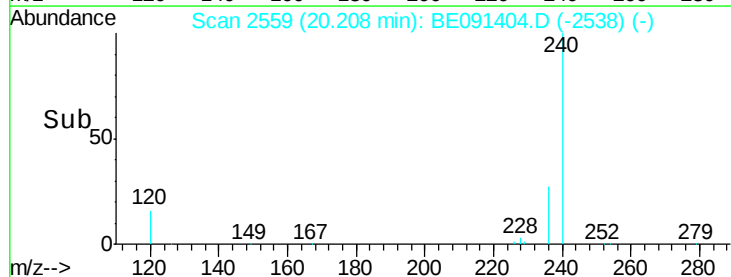
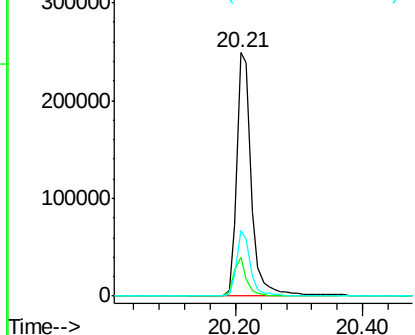


#18
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. -0.01 min
 Lab File: BE091404.D
 Acq: 17 Feb 2016 15:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.1	8.9	13.3#
236	26.8	21.0	31.4



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





#19

Pvrene

Concen: 1.05 ng

RT: 18.47 min Scan# 2353

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

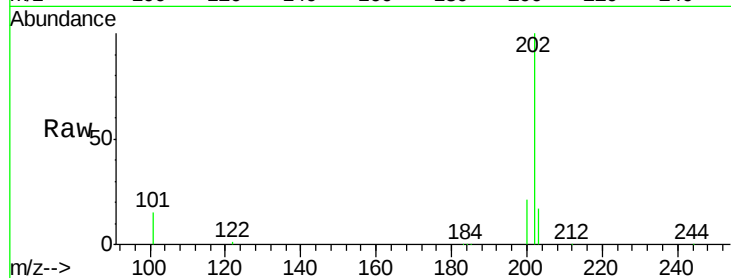
Tot Ion:202 Resp: 90440

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

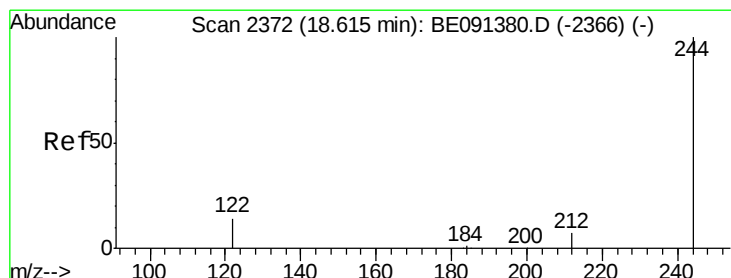
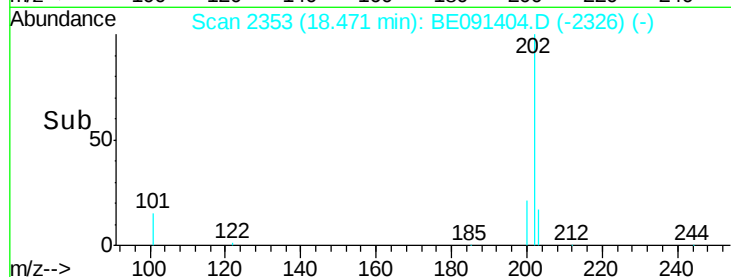
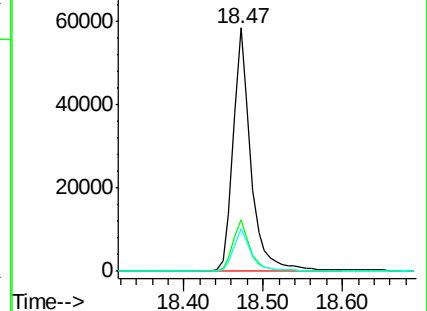
203 17.3 14.0 21.0



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



#20

Terphenyl-d14

Concen: 1.04 ng

RT: 18.61 min Scan# 2372

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

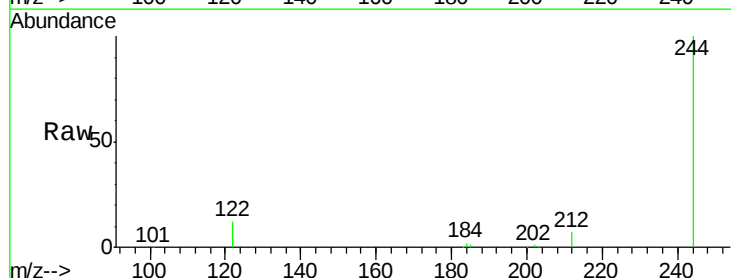
Tgt Ion:244 Resp: 61276

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

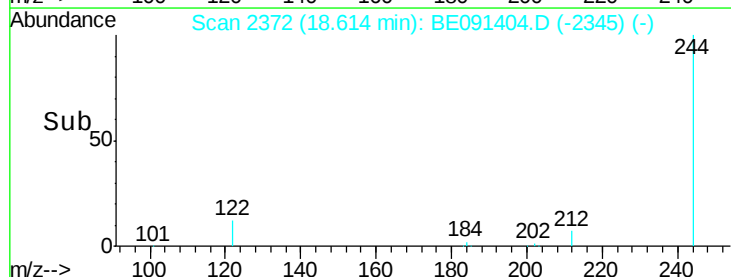
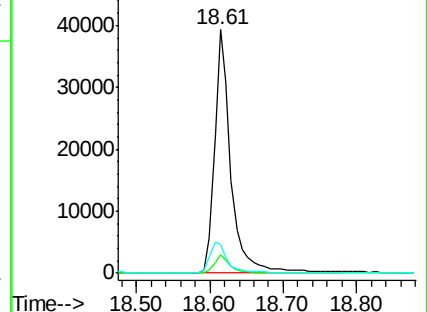
122 11.9 11.0 16.6

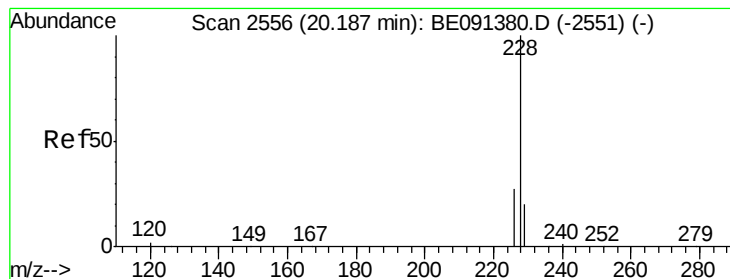


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 0.93 ng

RT: 20.18 min Scan# 2556

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

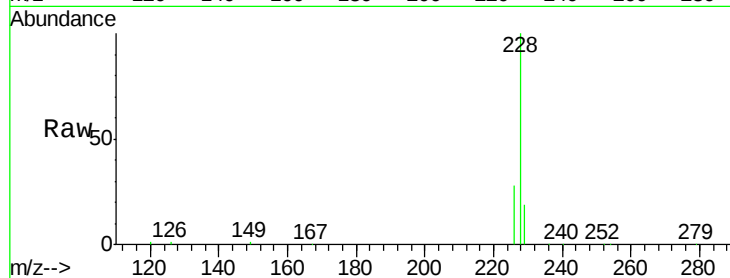
Tot Ion:228 Resp: 69419

Ion Ratio Lower Upper

228 100

226 27.8 21.7 32.5

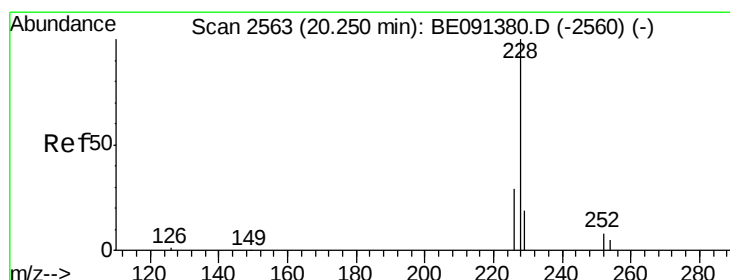
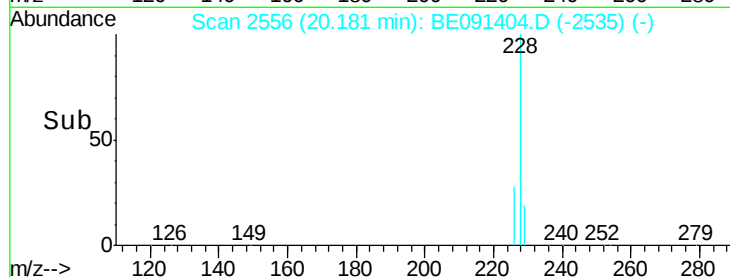
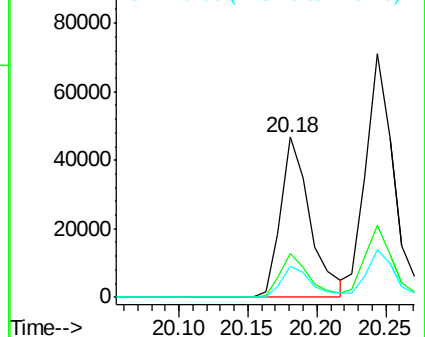
229 19.3 16.1 24.1



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



#22

Chrysene

Concen: 0.99 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

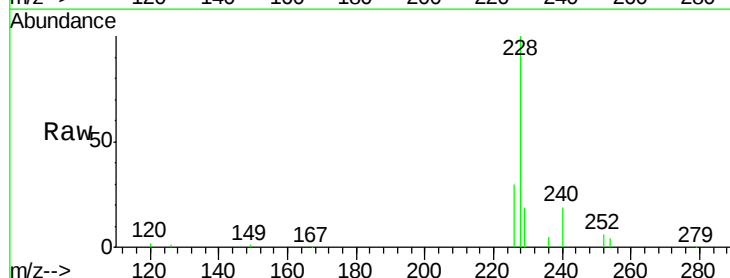
Tgt Ion:228 Resp: 103220

Ion Ratio Lower Upper

228 100

226 29.9 23.4 35.0

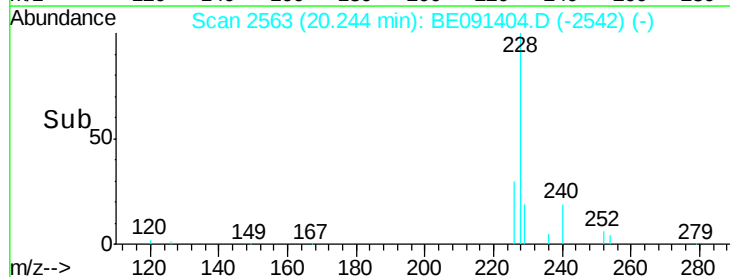
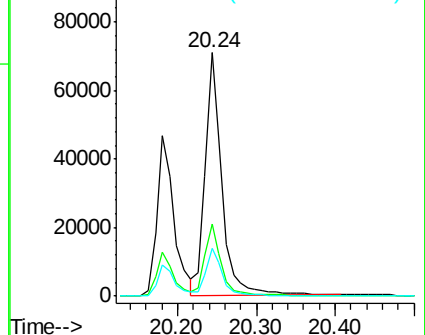
229 19.5 15.7 23.5

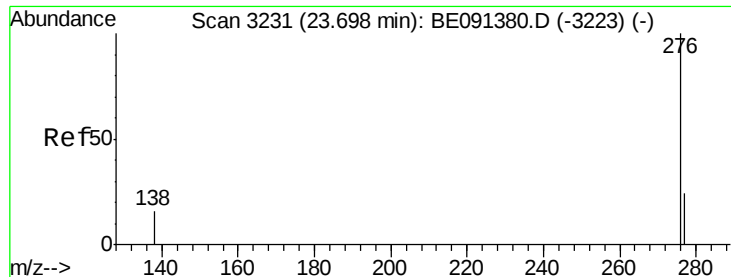


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

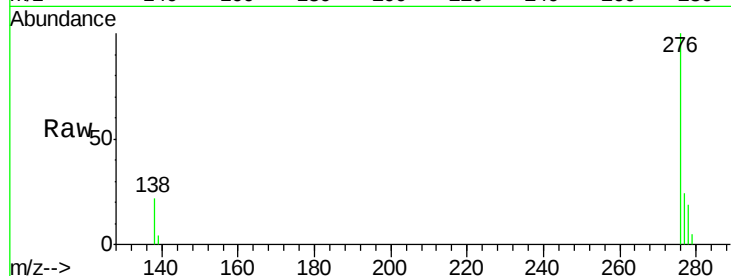




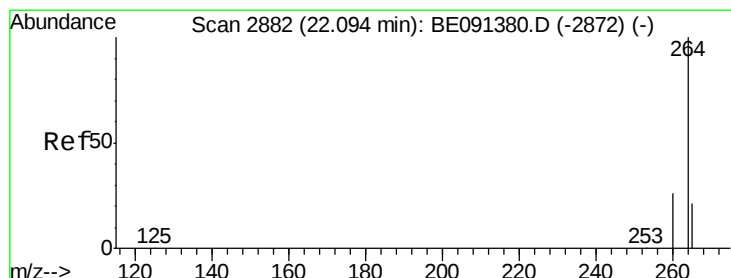
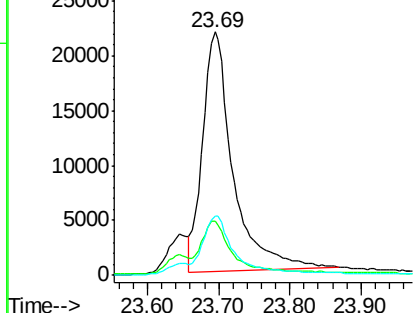
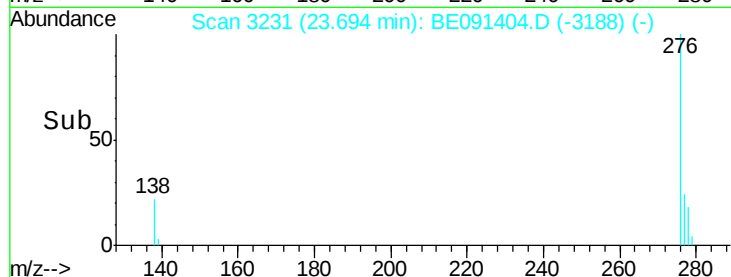
#23
Indeno(1,2,3-cd)pyrene
Concen: 0.85 ng
RT: 23.69 min Scan# 3231
Delta R.T. -0.00 min
Lab File: BE091404.D
Acq: 17 Feb 2016 15:01

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001

Tot Ion:276 Resp: 64263
Ion Ratio Lower Upper
276 100
138 21.4 16.6 25.0
277 24.1 19.0 28.6

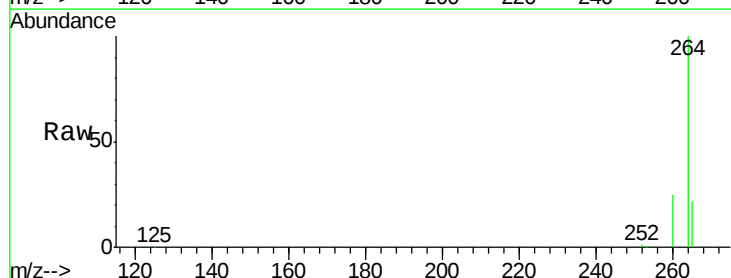


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

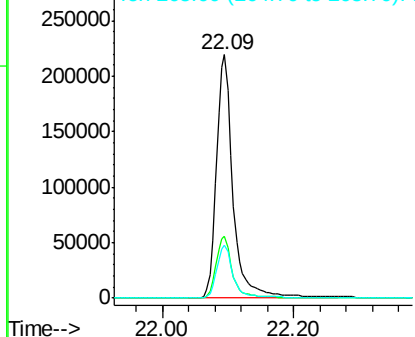
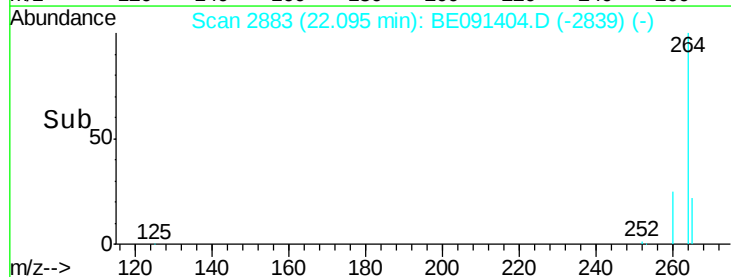


#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2883
Delta R.T. 0.00 min
Lab File: BE091404.D
Acq: 17 Feb 2016 15:01

Tgt Ion:264 Resp: 384031
Ion Ratio Lower Upper
264 100
260 25.2 20.7 31.1
265 21.8 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





#25

Benzo(b)fluoranthene

Concen: 0.96 ng

RT: 21.54 min Scan# 2762

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

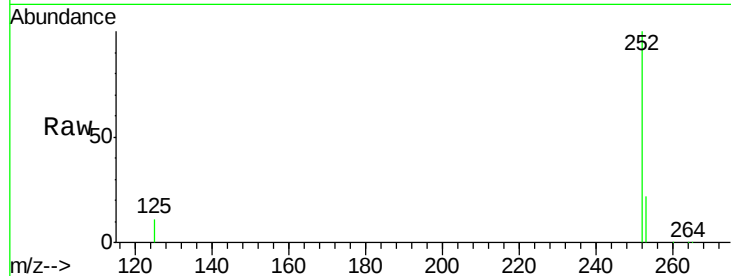
Tot Ion:252 Resp: 79799

Ion Ratio Lower Upper

252 100

253 22.2 18.2 27.2

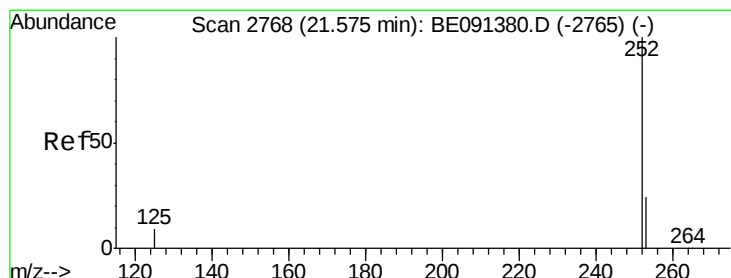
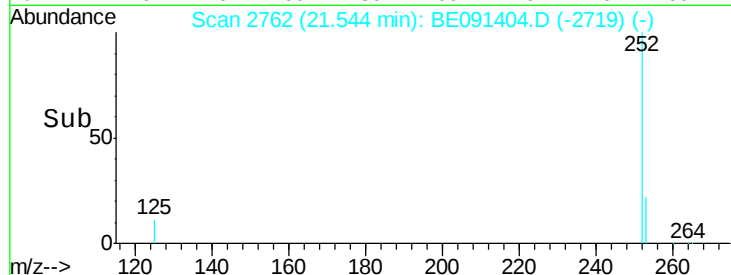
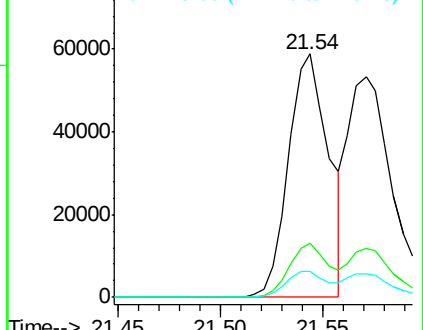
125 10.8 8.3 12.5



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



#26

Benzo(k)fluoranthene

Concen: 0.94 ng

RT: 21.57 min Scan# 2768

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

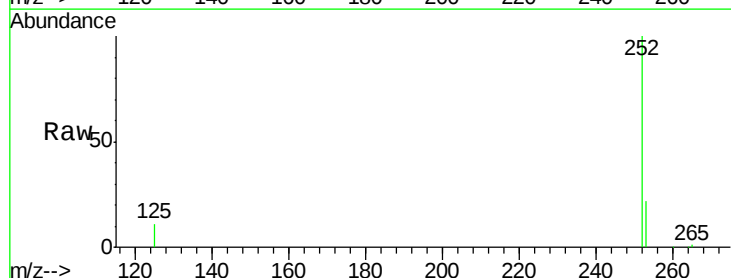
Tgt Ion:252 Resp: 89031

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

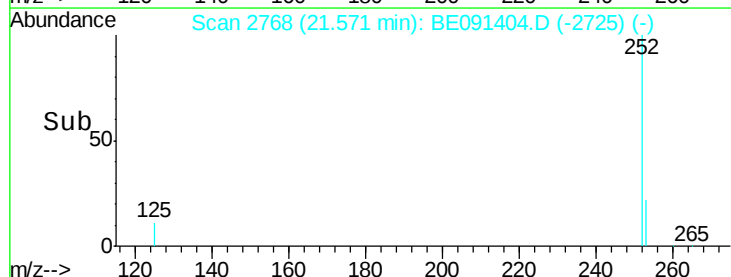
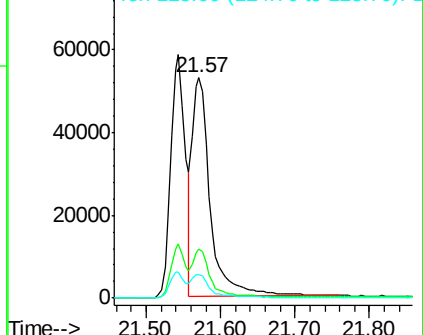
125 10.9 8.2 12.4



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





#27

Benzo(a)pyrene

Concen: 0.93 ng

RT: 22.00 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

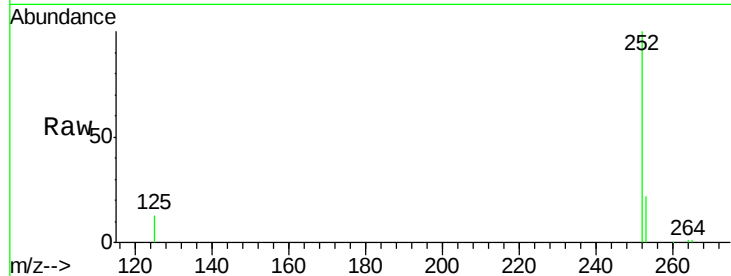
Tot Ion:252 Resp: 69520

Ion Ratio Lower Upper

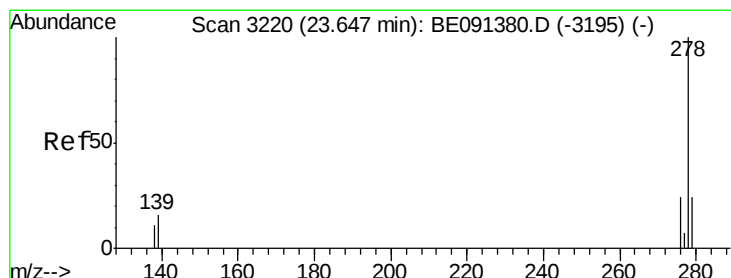
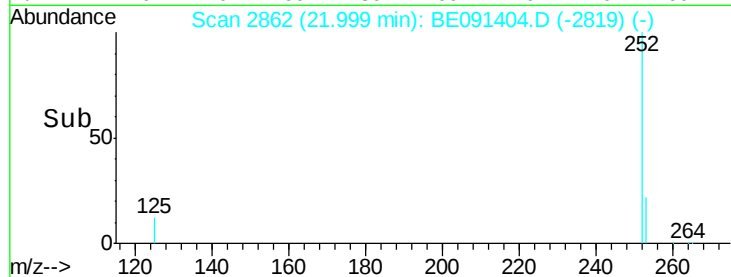
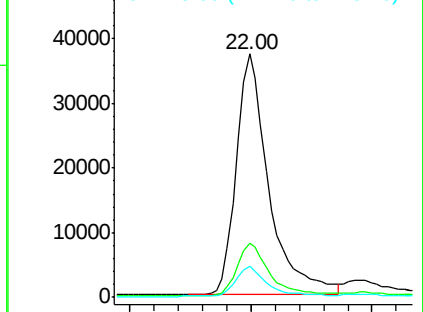
252 100

253 22.3 17.5 26.3

125 12.5 9.4 14.0



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



#28

Dibenzo(a,h)anthracene

Concen: 0.83 ng

RT: 23.65 min Scan# 3221

Delta R.T. 0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

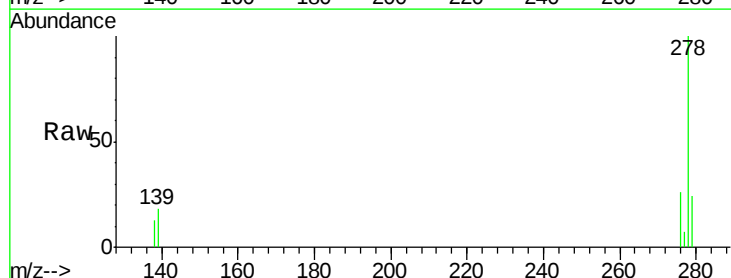
Tgt Ion:278 Resp: 53190

Ion Ratio Lower Upper

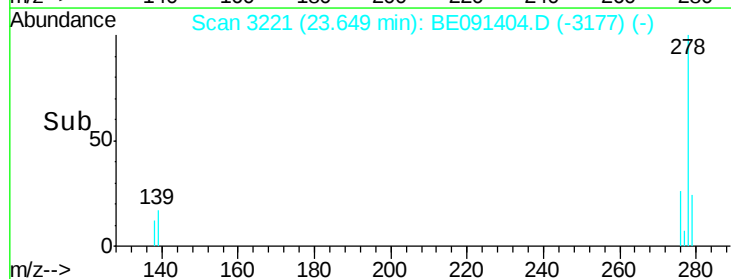
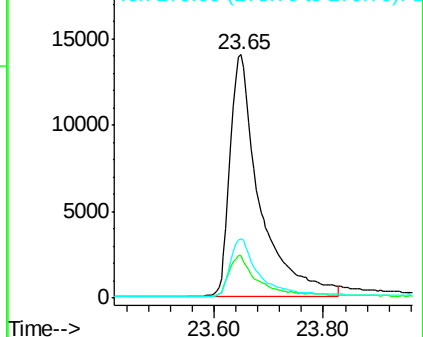
278 100

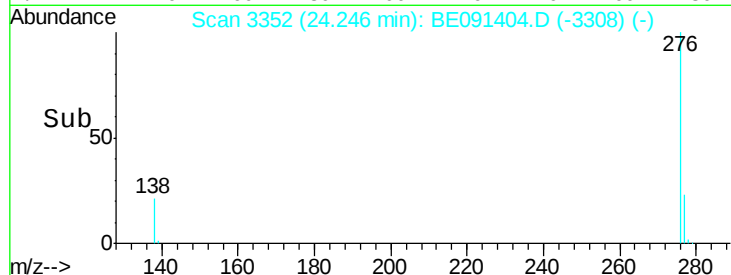
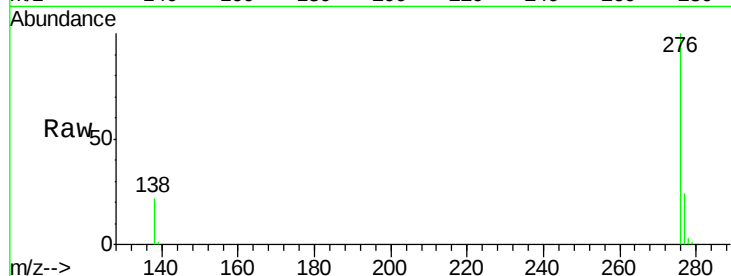
139 17.5 13.0 19.4

279 24.4 19.2 28.8



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





#29

Benzo(a,h,i)perylene

Concen: 0.91 ng

RT: 24.25 min Scan# 3352

Delta R.T. 0.00 min

Lab File: BE091404.D

Acq: 17 Feb 2016 15:01

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001

Tot Ion: 276 Resp: 74956

Ion Ratio Lower Upper

276 100

277 23.5 18.9 28.3

138 21.9 17.0 25.6

