

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091455.D
 Acq On : 16 Mar 2016 22:30
 Operator : UM/SJ
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

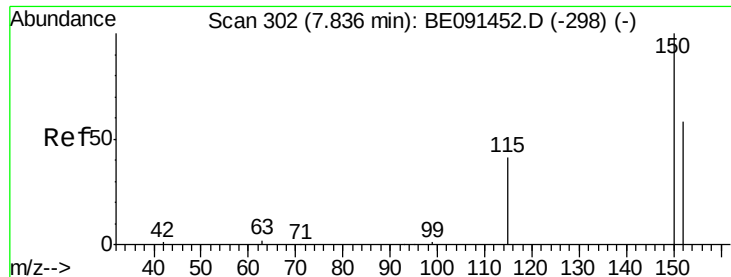
Quant Time: Mar 17 07:09:37 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 07:07:36 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	70901	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	329834	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	194158	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	460324	5.00	ng	0.00
19) Chrysene-d12	21.34	240	591507	5.00	ng	0.00
25) Perylene-d12	23.81	264	567966	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	51618	3.36	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	172477	3.66	ng	0.00
21) Terphenyl-d14	19.80	244	282188	3.16	ng	0.00

Target Compounds						Ovalue
2) 1,4-Dioxane	3.38	88	26925	4.12	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	47061	6.23	ng	# 100
6) Naphthalene	10.67	128	265836	3.50	ng	99
7) 2-Methylnaphthalene	12.27	142	180170	3.98	ng	95
10) Acenaphthylene	14.16	152	304350	1.05	ng	# 100
11) Acenaphthene	14.51	154	202645	3.47	ng	# 100
12) Fluorene	15.49	166	258539	3.42	ng	# 100
14) Hexachlorobenzene	16.48	284	69415	2.66	ng	# 100
15) Pentachlorophenol	16.83	266	31930	5.55	ng	# 82
16) Phenanthrene	17.23	178	436723	2.78	ng	# 100
17) Anthracene	17.31	178	409379	1.82	ng	# 100
18) Fluoranthene	19.22	202	500384	2.19	ng	# 67
20) Pyrene	19.59	202	563222	3.37	ng	# 93
22) Benzo(a)anthracene	21.31	228	666416	3.26	ng	98
23) Chrysene	21.31	228	666251	3.15	ng	# 87
24) Indeno(1,2,3-cd)pyrene	26.40	276	658293	3.63	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	574265	3.46	ng	92
27) Benzo(k)fluoranthene	23.10	252	611182	3.99	ng	# 94
28) Benzo(a)pyrene	23.69	252	559311	4.00	ng	# 92
29) Dibenzo(a,h)anthracene	26.43	278	552005	4.11	ng	96
30) Benzo(g,h,i)perylene	27.20	276	559143	3.89	ng	98

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

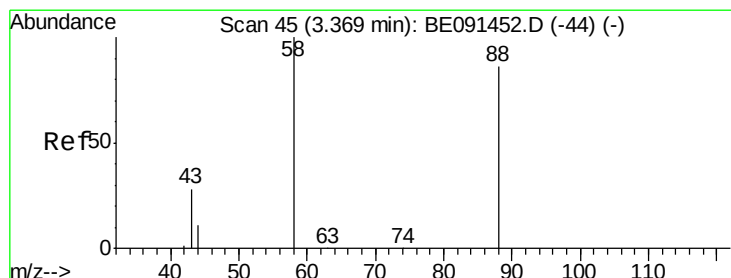
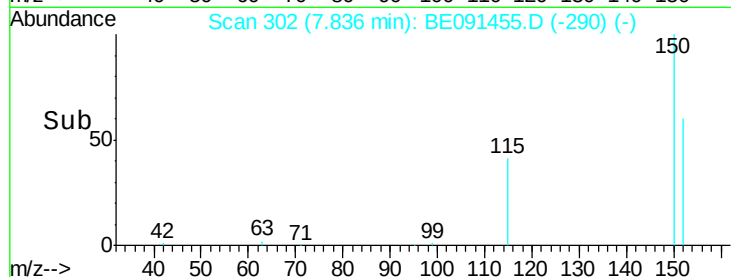
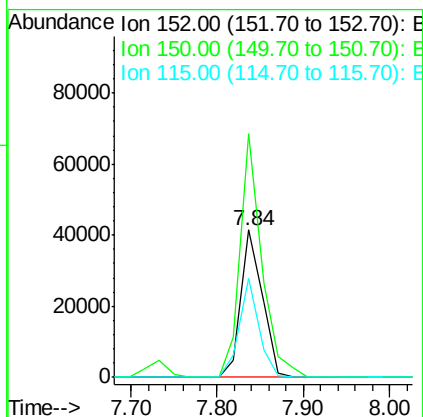
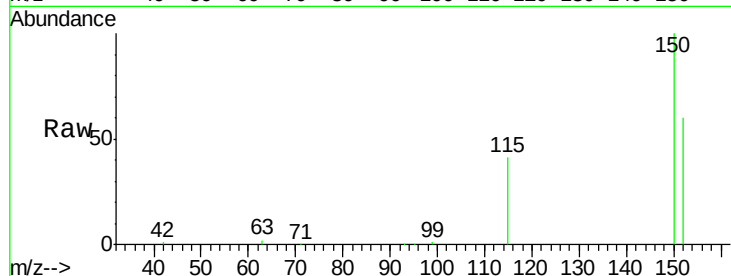


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 302
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Instrument :
BNA_E
ClientSampleId :

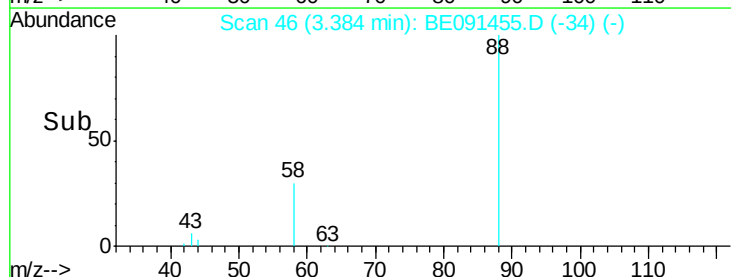
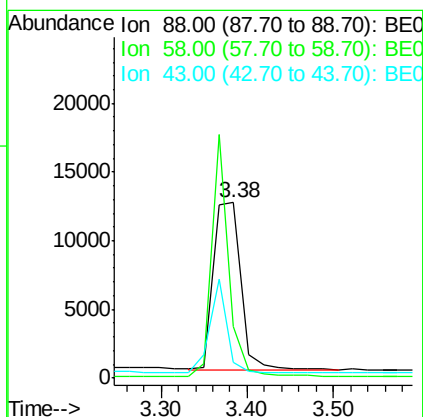
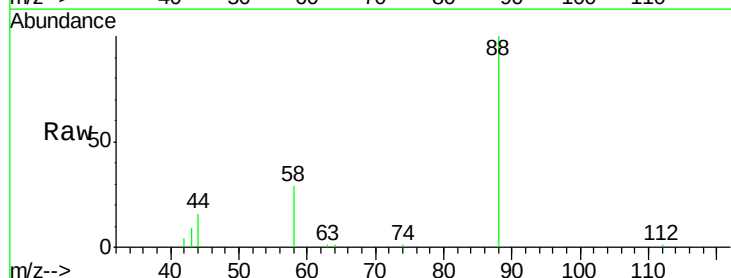
Tot Ion:152 Resp: 70901
Ion Ratio Lower Upper
152 100
150 165.6 136.8 205.2
115 67.5 56.9 85.3

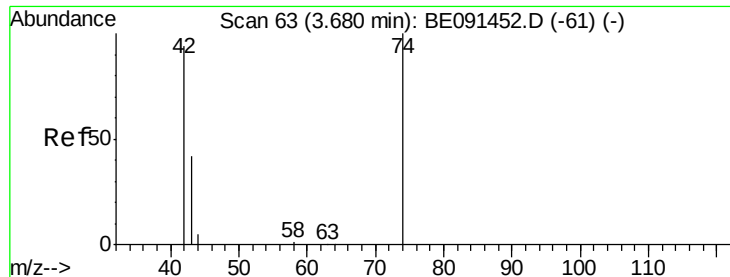


#2

1,4-Dioxane
Concen: 4.12 ng
RT: 3.38 min Scan# 46
Delta R.T. 0.02 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Tgt Ion: 88 Resp: 26925
Ion Ratio Lower Upper
88 100
58 87.8 0.0 0.0#
43 35.5 0.0 0.0#





#3

n-Nitrosodimethylamine

Concen: 6.23 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

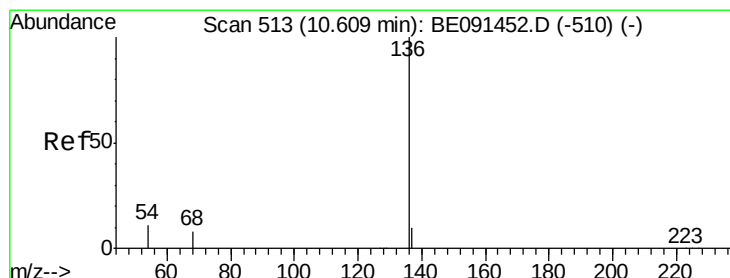
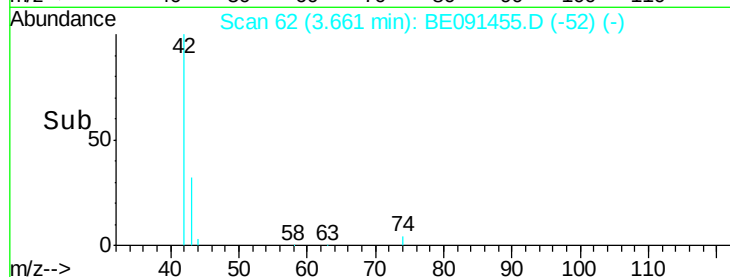
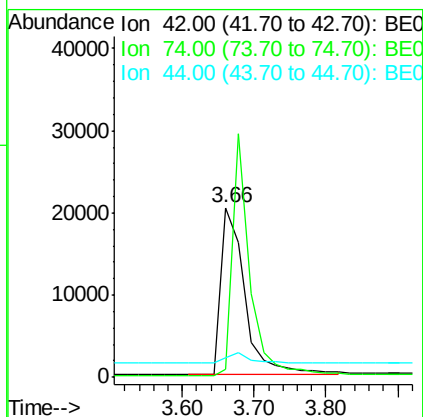
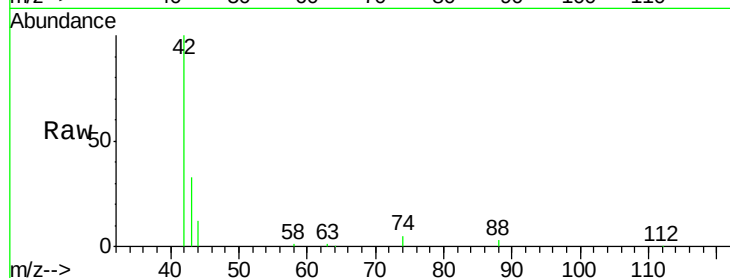
Tot Ion: 42 Resp: 47061

Ion Ratio Lower Upper

42 100

74 104.5 0.0 0.0#

44 6.5 0.0 0.0#



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

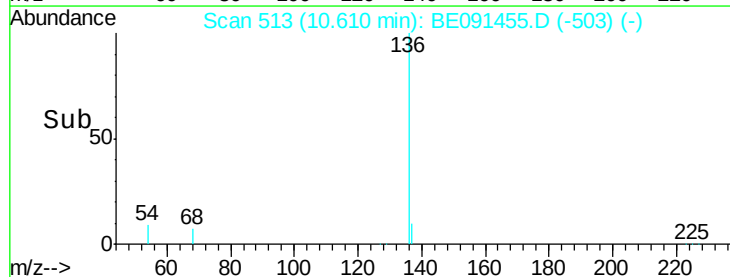
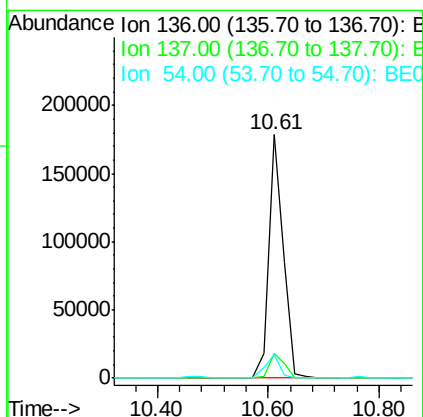
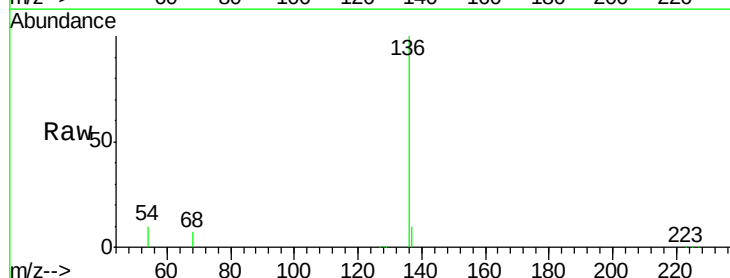
Tgt Ion: 136 Resp: 329834

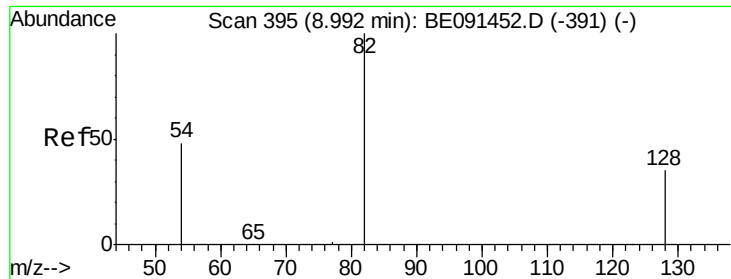
Ion Ratio Lower Upper

136 100

137 10.4 8.0 12.0

54 9.5 9.1 13.7





#5

Nitrobenzene-d5

Concen: 3.36 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

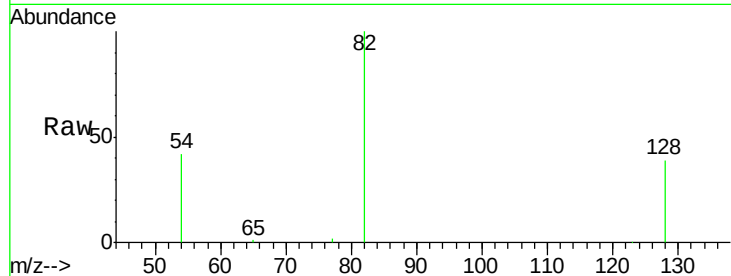
Tot Ion: 82 Resp: 51618

Ion Ratio Lower Upper

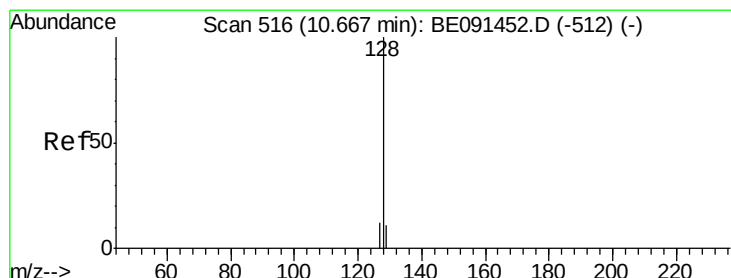
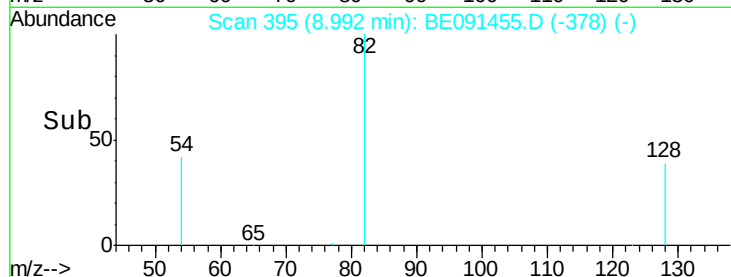
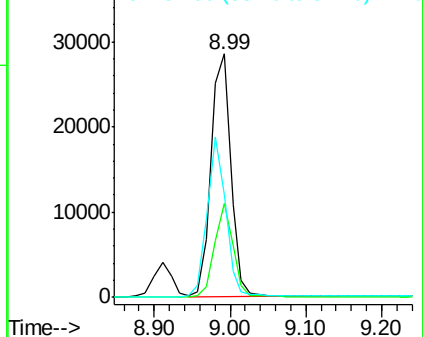
82 100

128 38.7 29.4 44.2

54 42.4 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 3.50 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

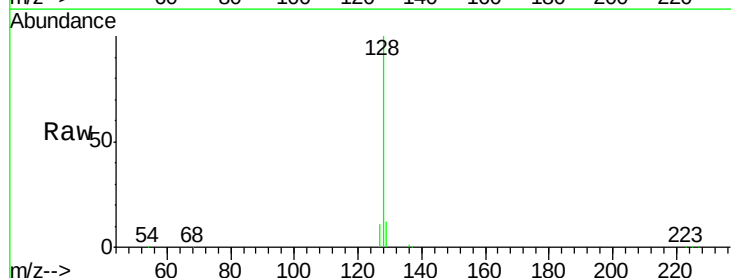
Tgt Ion: 128 Resp: 265836

Ion Ratio Lower Upper

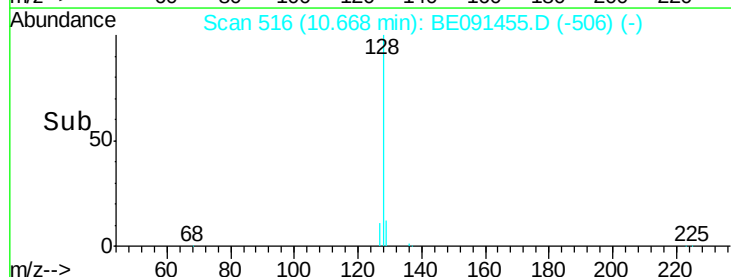
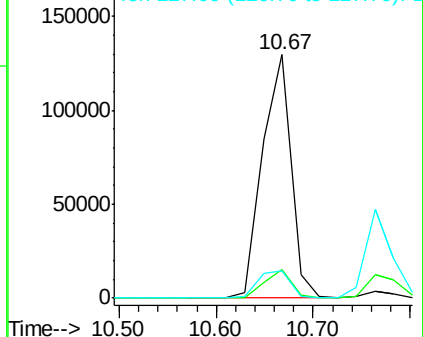
128 100

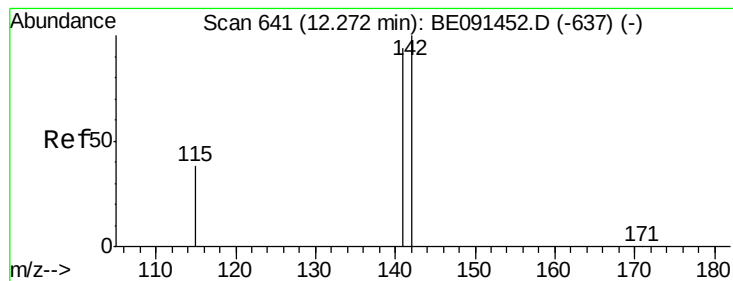
129 11.9 9.4 14.0

127 11.5 9.7 14.5



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 3.98 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

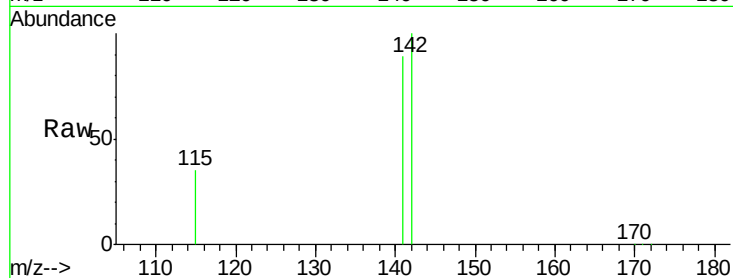
Tot Ion:142 Resp: 180170

Ion Ratio Lower Upper

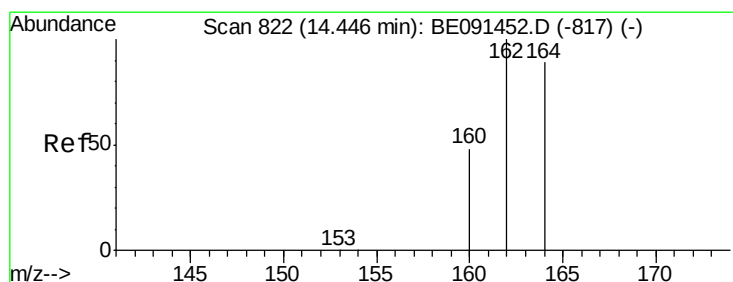
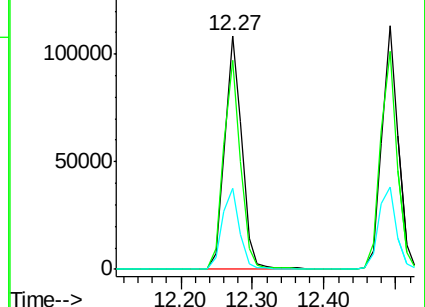
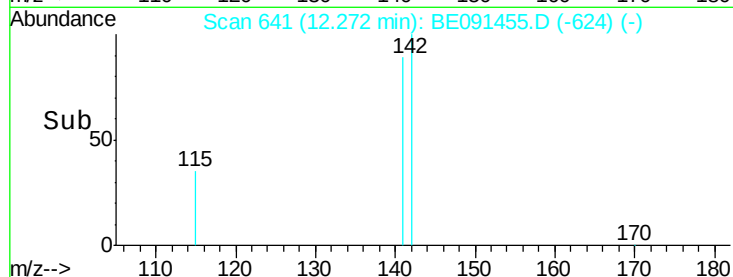
142 100

141 89.3 75.0 112.4

115 34.6 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

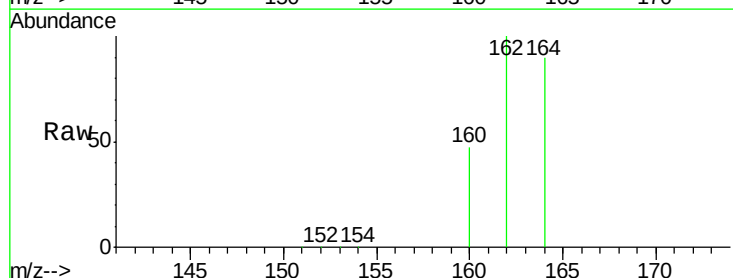
Tgt Ion:164 Resp: 194158

Ion Ratio Lower Upper

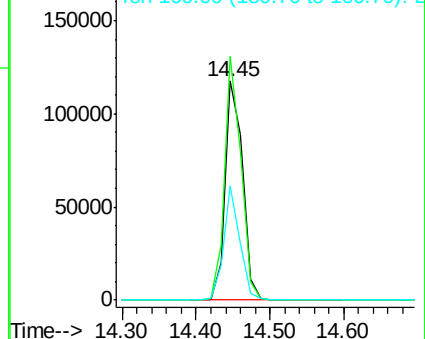
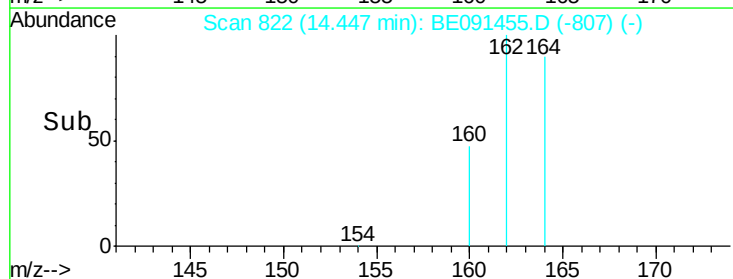
164 100

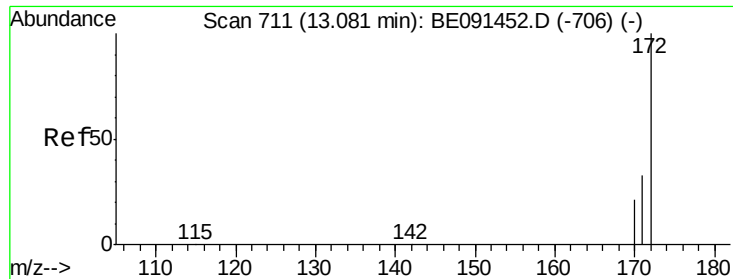
162 111.2 89.8 134.8

160 52.1 43.1 64.7



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-Fluorobiphenyl

Concen: 3.66 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

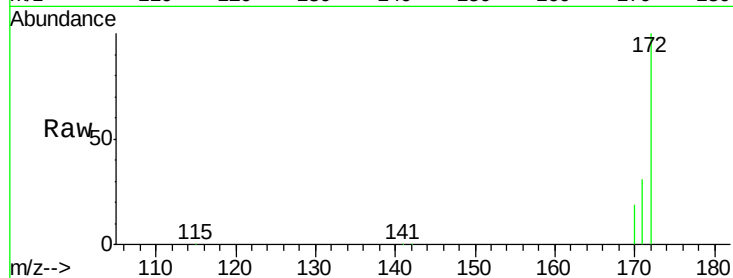
Tot Ion:172 Resp: 172477

Ion Ratio Lower Upper

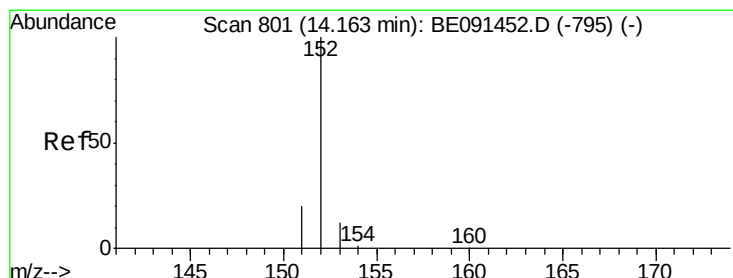
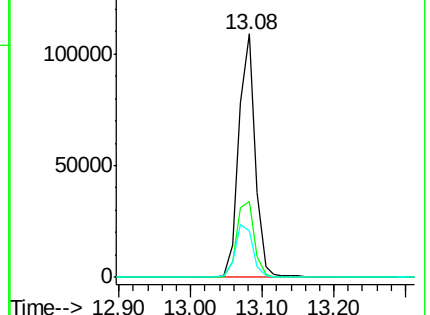
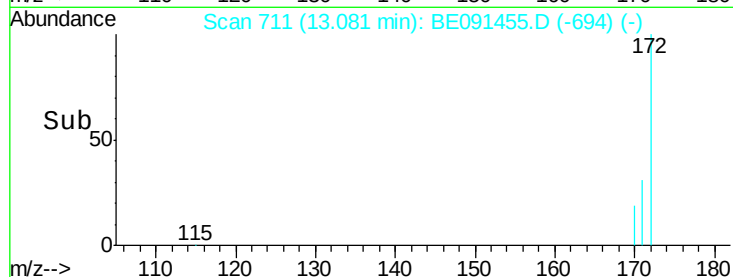
172 100

171 31.3 26.7 40.1

170 19.3 17.4 26.2



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



#10

Acenaphthylene

Concen: 1.05 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

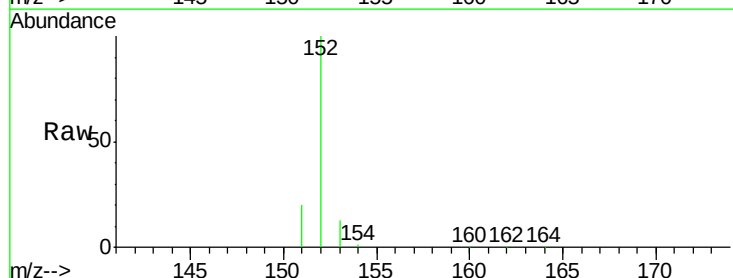
Tgt Ion:152 Resp: 304350

Ion Ratio Lower Upper

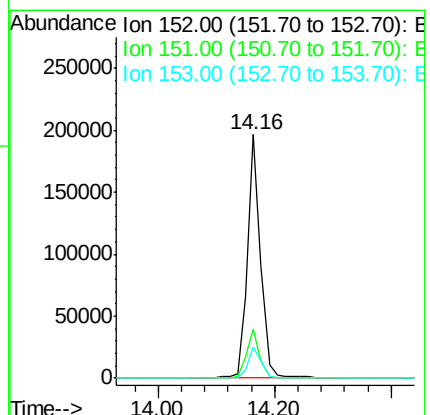
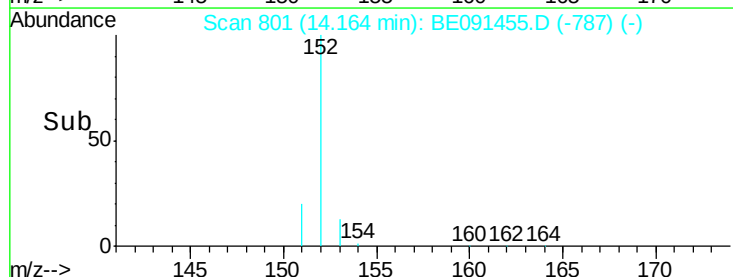
152 100

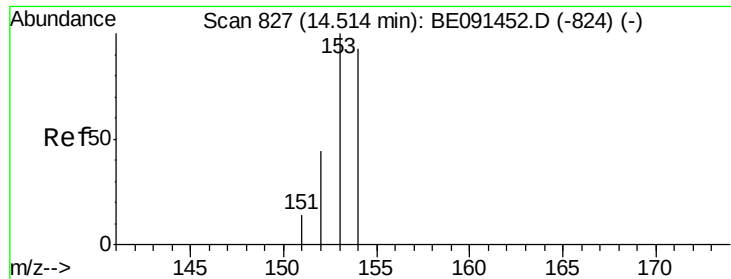
151 19.8 0.0 0.0#

153 13.1 0.0 0.0#



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

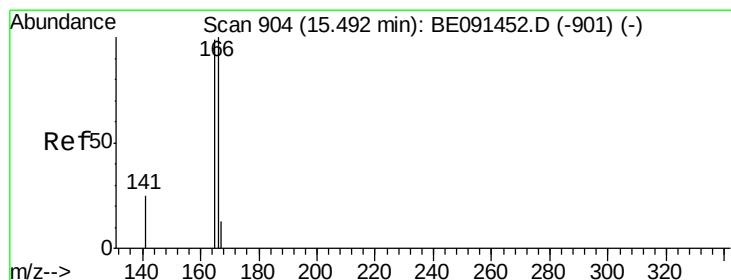
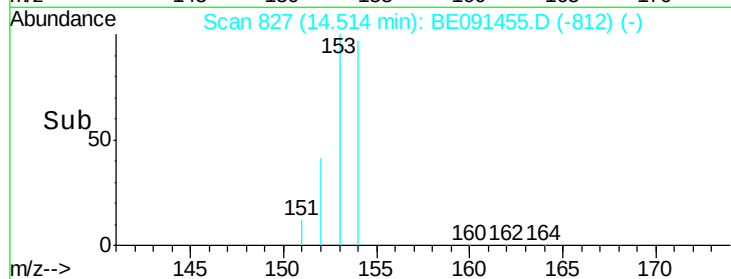
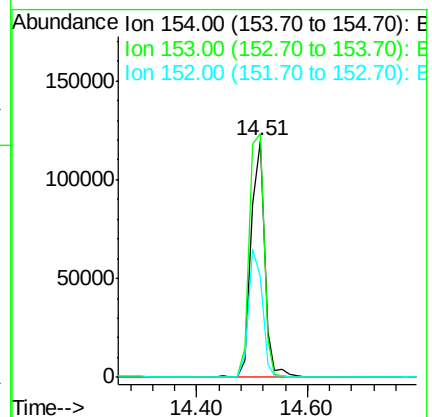
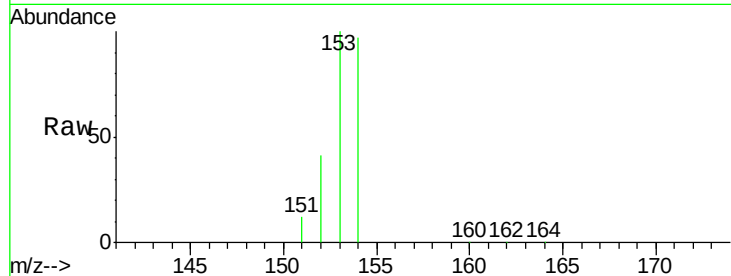




#11
Acenaphthene
Concen: 3.47 ng
RT: 14.51 min Scan# 827
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

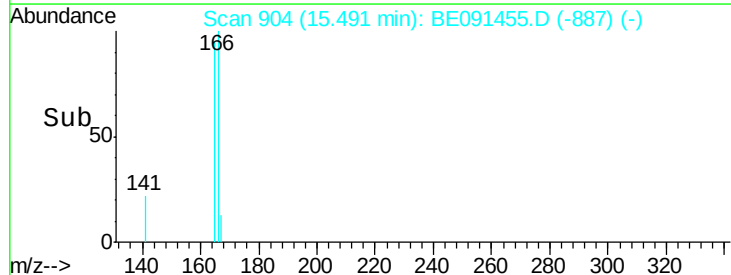
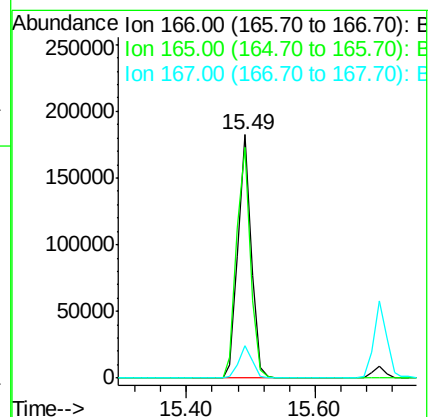
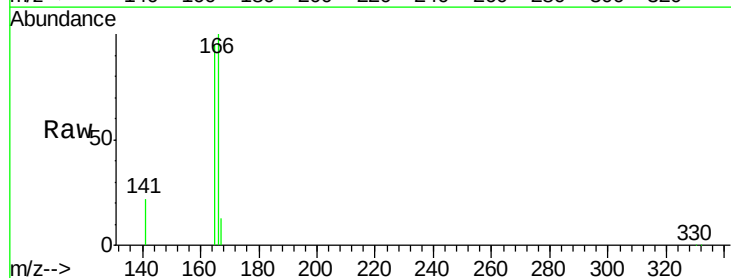
Instrument :
BNA_E
ClientSampleId :

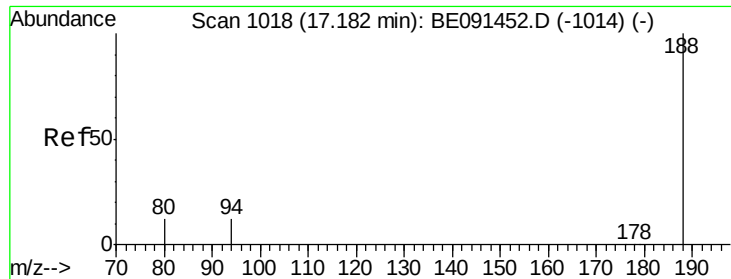
Tot Ion:154 Resp: 202645
Ion Ratio Lower Upper
154 100
153 111.0 0.0 0.0#
152 53.8 0.0 0.0#



#12
Fluorene
Concen: 3.42 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Tgt Ion:166 Resp: 258539
Ion Ratio Lower Upper
166 100
165 98.7 0.0 0.0#
167 13.5 0.0 0.0#

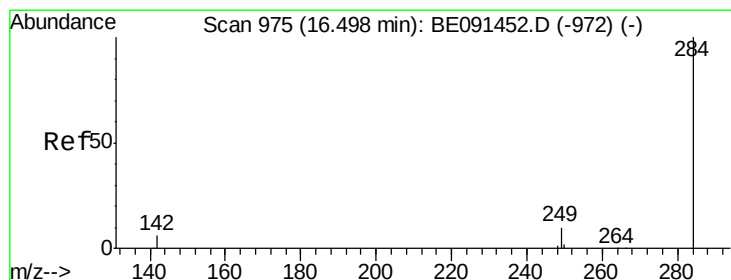
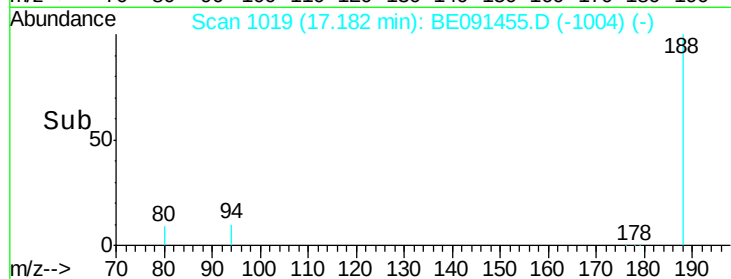
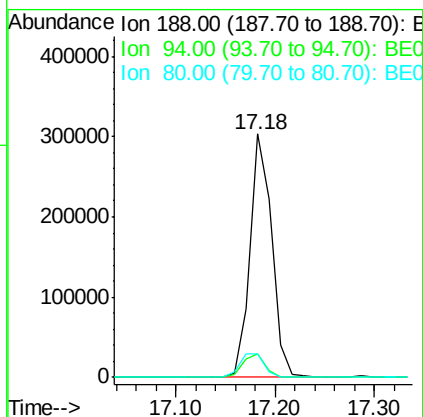
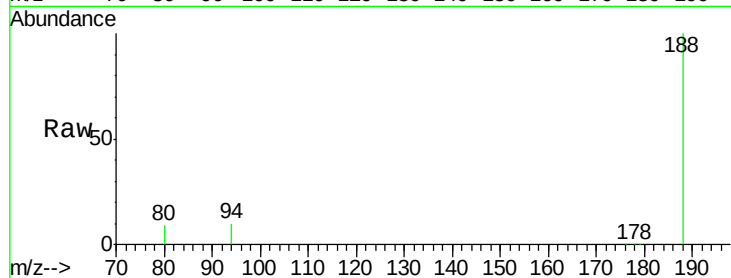




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

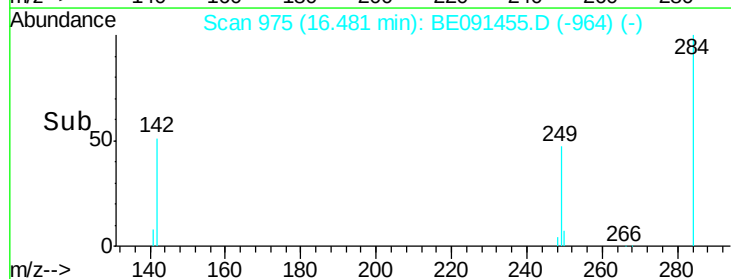
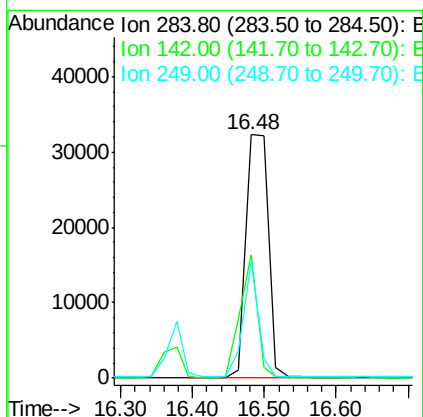
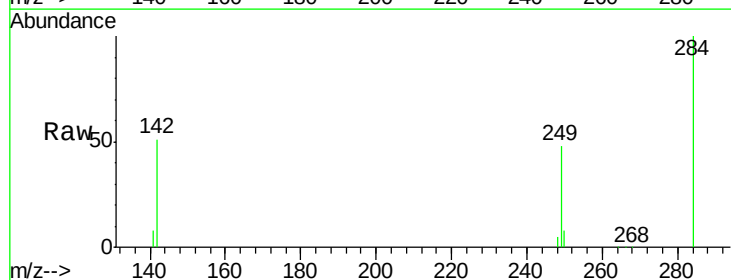
Instrument :
BNA_E
ClientSampleId :

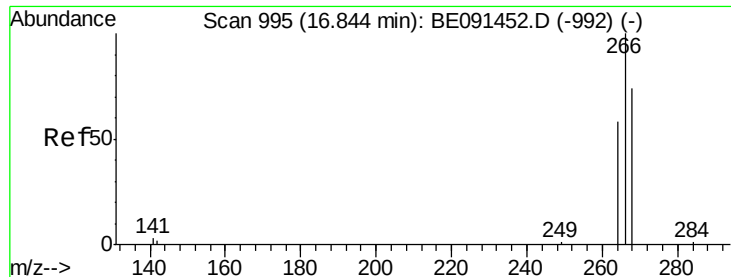
Tot Ion:188 Resp: 460324
Ion Ratio Lower Upper
188 100
94 9.5 9.5 14.3#
80 9.4 9.8 14.8#



#14
Hexachlorobenzene
Concen: 2.66 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Tgt Ion:284 Resp: 69415
Ion Ratio Lower Upper
284 100
142 38.3 0.0 0.0#
249 31.7 0.0 0.0#

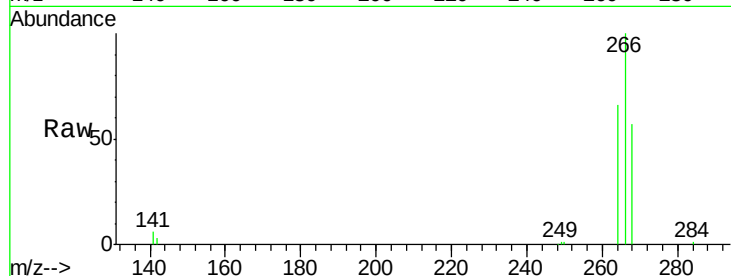




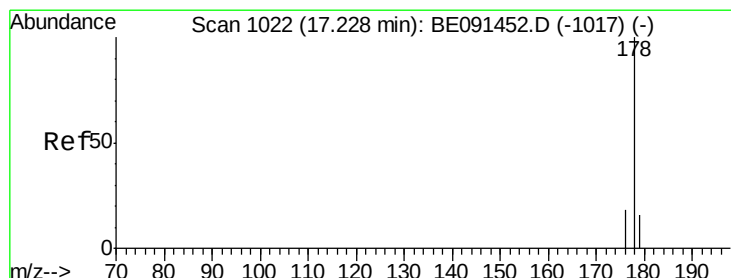
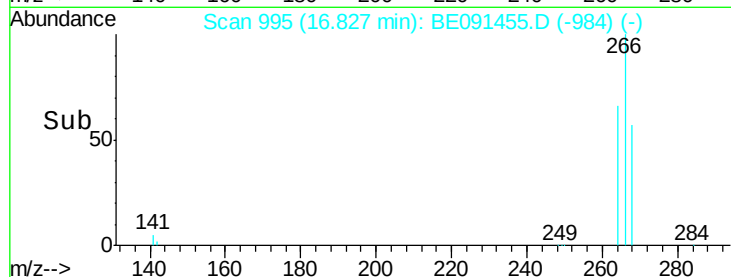
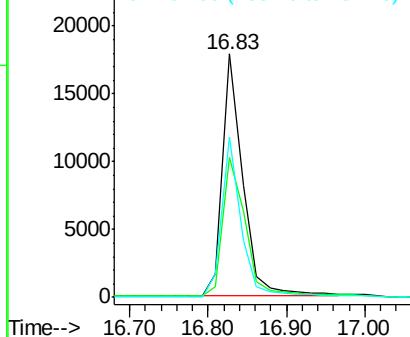
#15
 Pentachlorophenol
 Concen: 5.55 ng
 RT: 16.83 min Scan# 995
 Delta R.T. -0.02 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 31930
 Ion Ratio Lower Upper
 266 100
 268 57.4 61.0 91.6#
 264 66.1 45.7 68.5

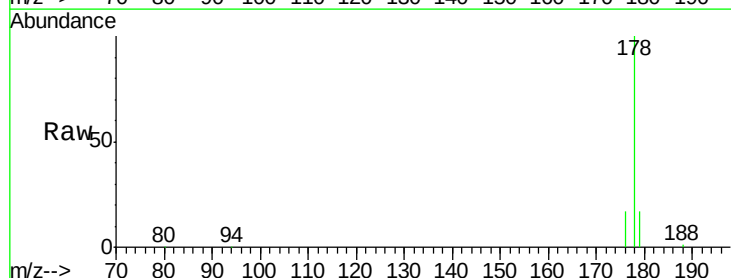


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

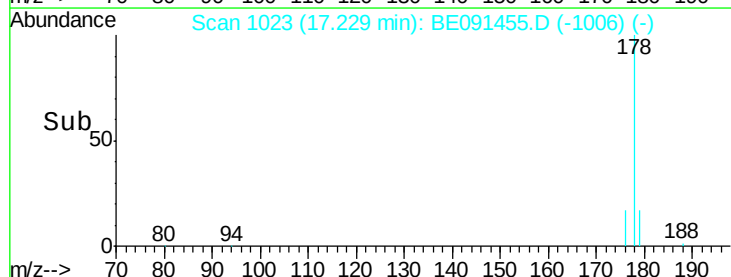
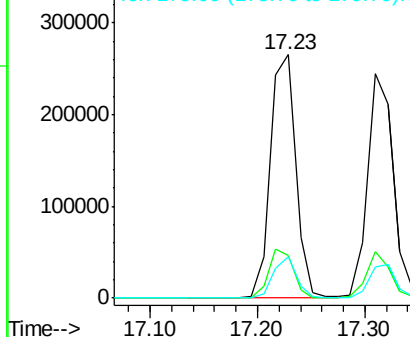


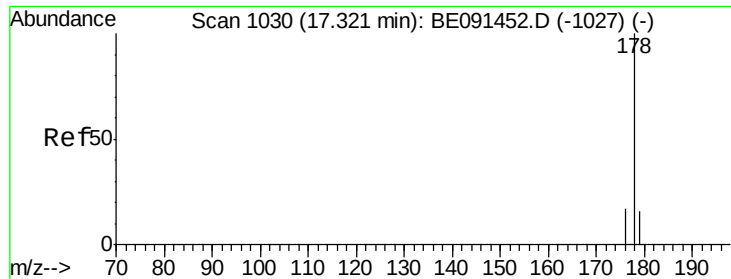
#16
 Phenanthrene
 Concen: 2.78 ng
 RT: 17.23 min Scan# 1023
 Delta R.T. 0.00 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

Tgt Ion:178 Resp: 436723
 Ion Ratio Lower Upper
 178 100
 176 19.6 0.0 0.0#
 179 15.4 0.0 0.0#



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

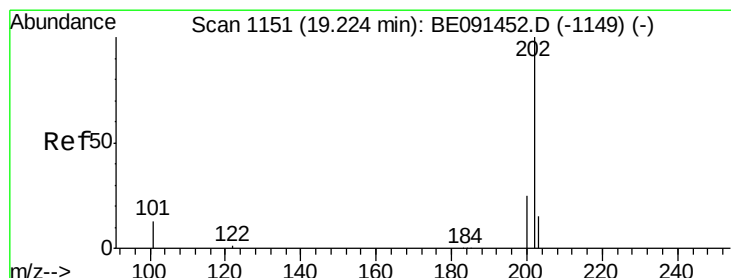
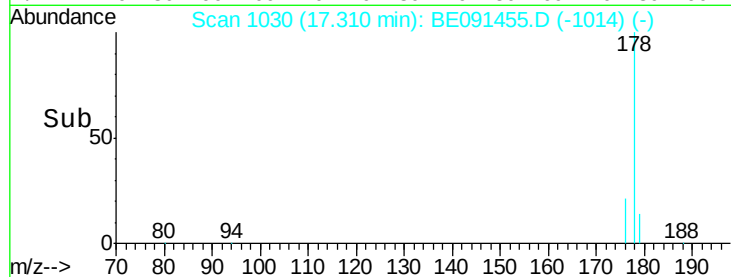
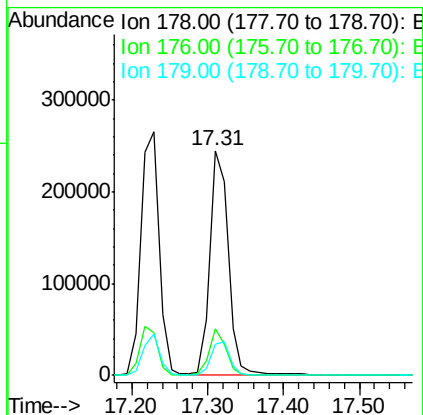
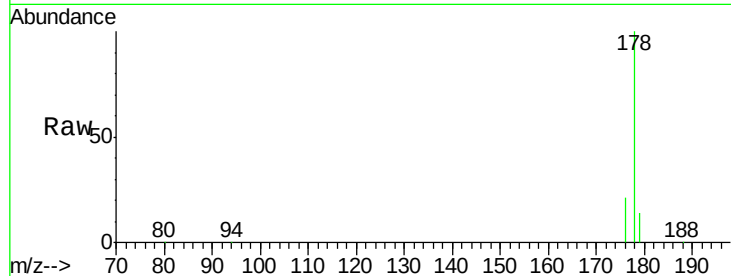




#17
 Anthracene
 Concen: 1.82 ng
 RT: 17.31 min Scan# 1030
 Delta R.T. -0.01 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

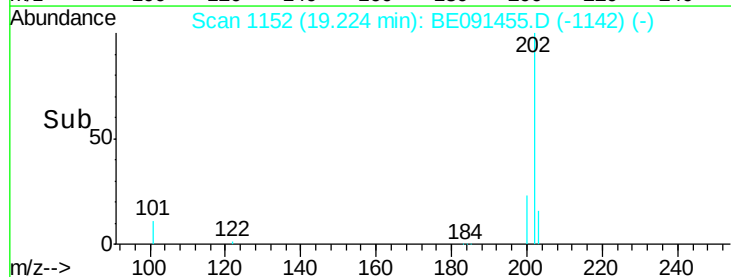
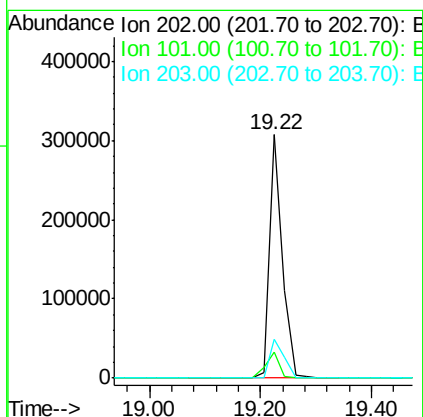
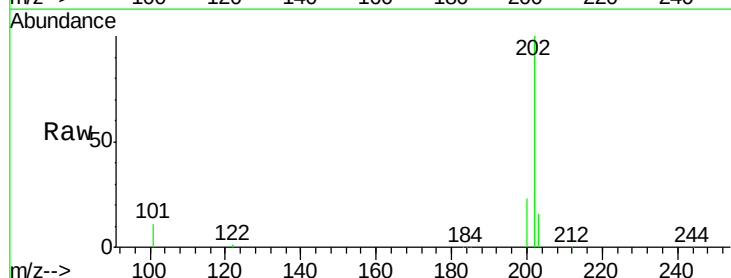
Instrument :
 BNA_E
 ClientSampleId :

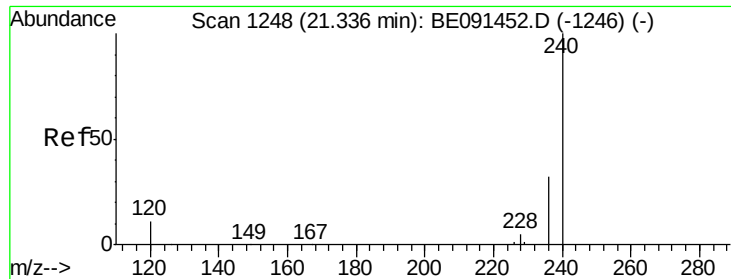
Tot Ion:178 Resp: 409379
 Ion Ratio Lower Upper
 178 100
 176 18.9 0.0 0.0#
 179 15.4 0.0 0.0#



#18
 Fluoranthene
 Concen: 2.19 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

Tgt Ion:202 Resp: 500384
 Ion Ratio Lower Upper
 202 100
 101 11.2 1.1 1.7#
 203 17.6 1.0 1.6#

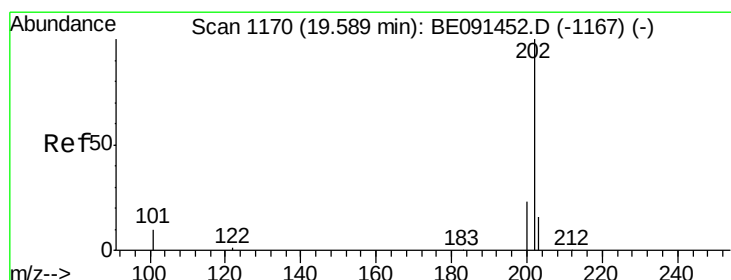
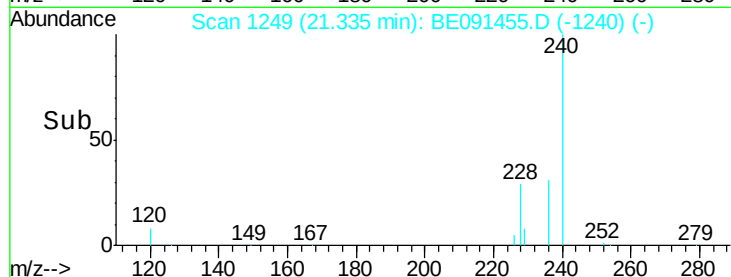
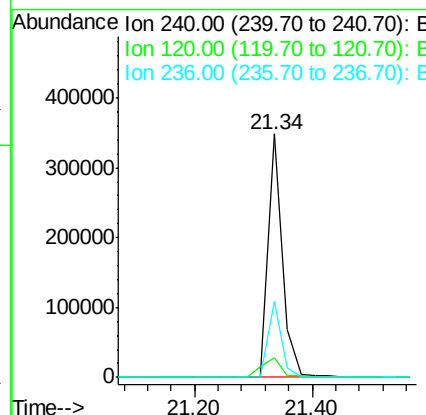
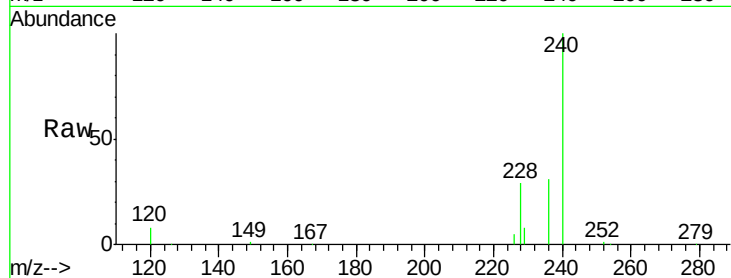




#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

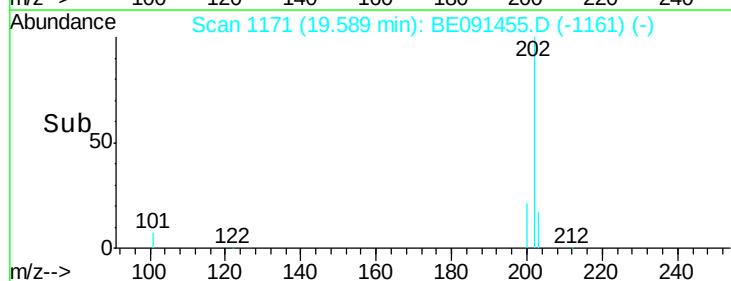
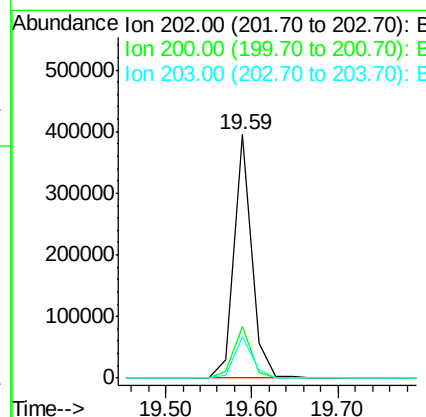
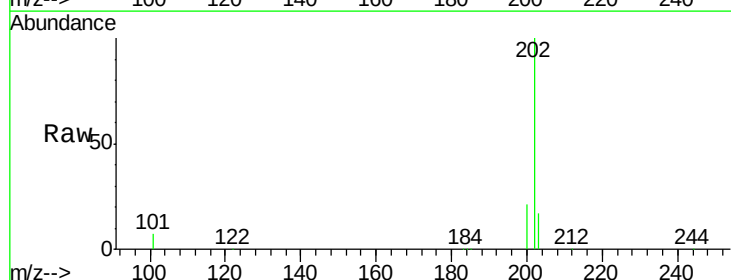
Instrument :
 BNA_E
 ClientSampleId :

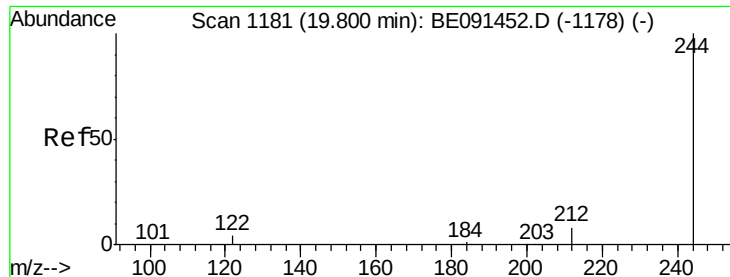
Tot Ion:240 Resp: 591507
 Ion Ratio Lower Upper
 240 100
 120 8.3 8.8 13.2#
 236 31.1 25.7 38.5



#20
 Pyrene
 Concen: 3.37 ng
 RT: 19.59 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: BE091455.D
 Acq: 16 Mar 2016 22:30

Tgt Ion:202 Resp: 563222
 Ion Ratio Lower Upper
 202 100
 200 21.3 0.0 0.0#
 203 17.4 0.1 0.1#





#21

Terphenyl-d14

Concen: 3.16 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

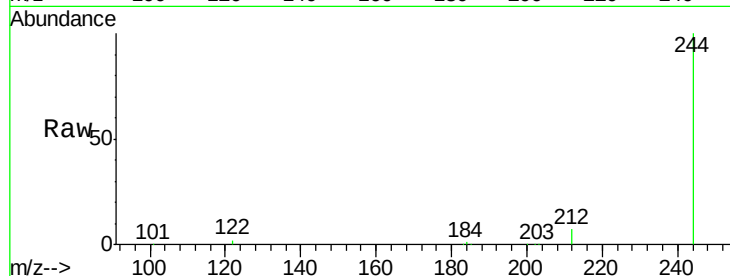
Tot Ion:244 Resp: 282188

Ion Ratio Lower Upper

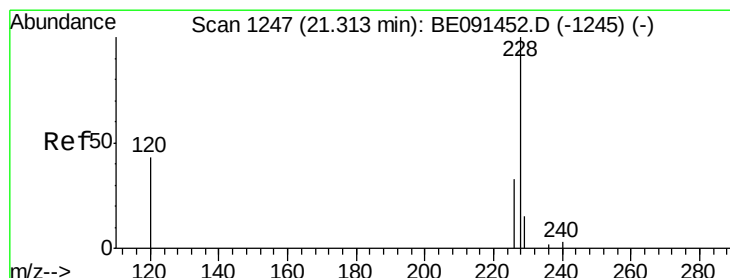
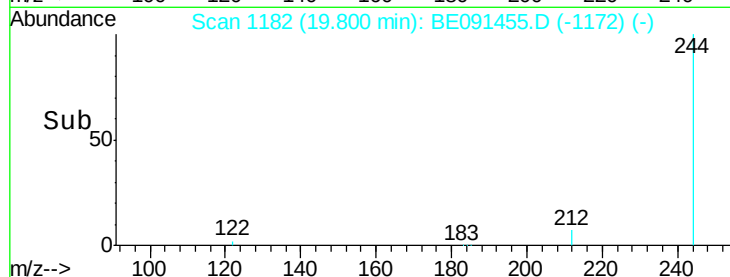
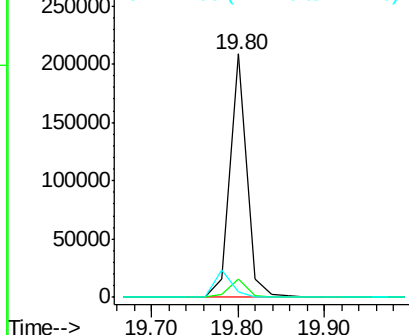
244 100

212 7.5 6.6 10.0

122 2.1 3.4 5.0#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 3.26 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

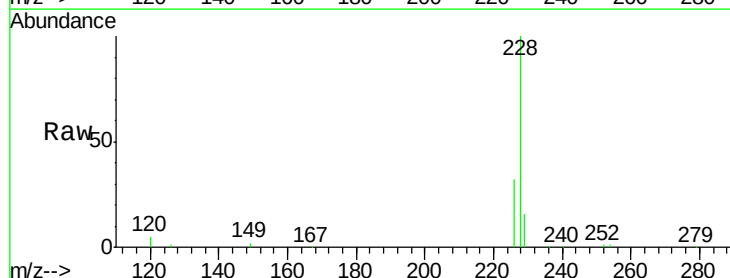
Tgt Ion:228 Resp: 666416

Ion Ratio Lower Upper

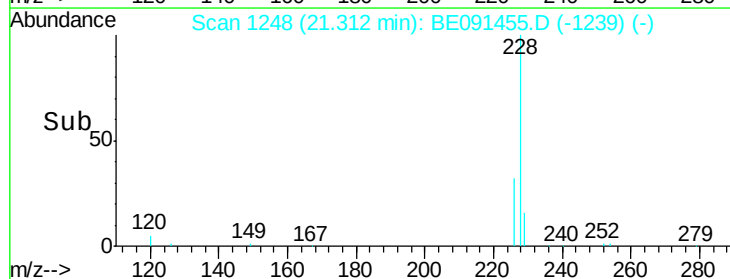
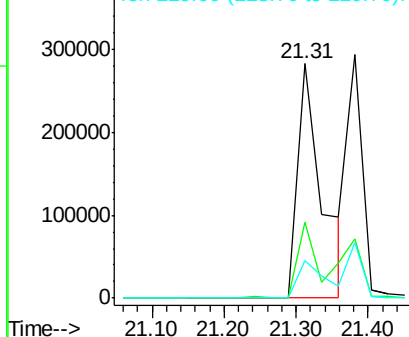
228 100

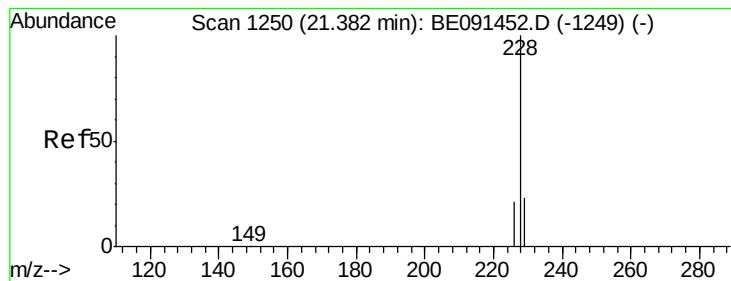
226 32.5 27.1 40.7

229 16.3 12.3 18.5



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

Chrysene

Concen: 3.15 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

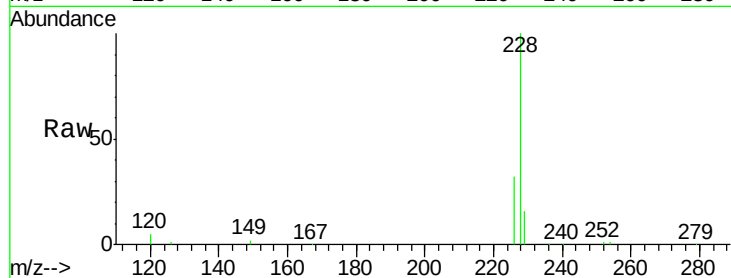
Tot Ion:228 Resp: 666251

Ion Ratio Lower Upper

228 100

226 32.5 20.3 30.5#

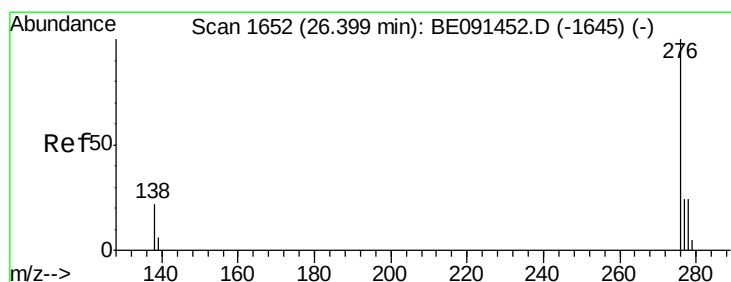
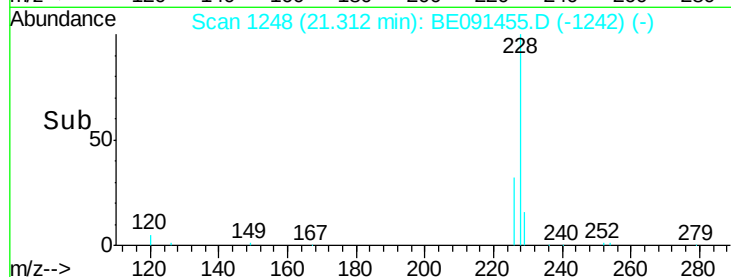
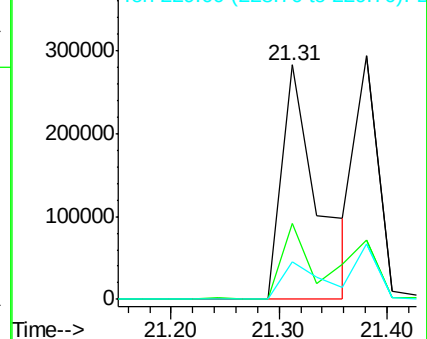
229 16.3 17.4 26.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 3.63 ng

RT: 26.40 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

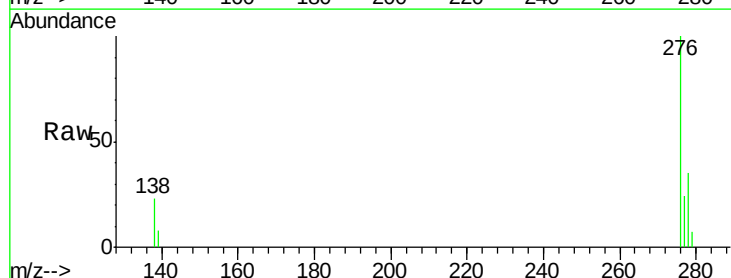
Tgt Ion:276 Resp: 658293

Ion Ratio Lower Upper

276 100

138 25.1 0.0 0.0#

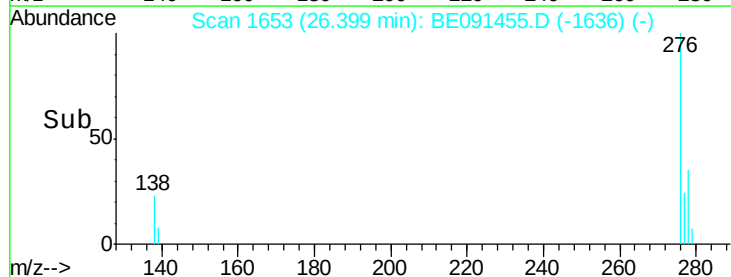
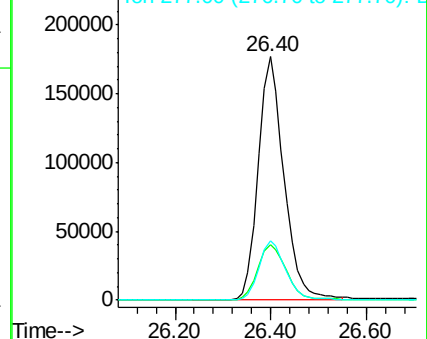
277 25.0 0.0 0.0#

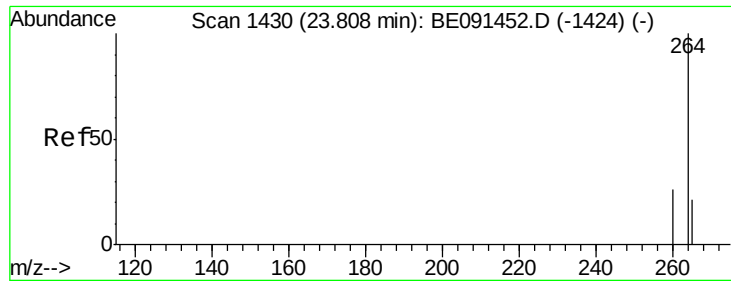


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



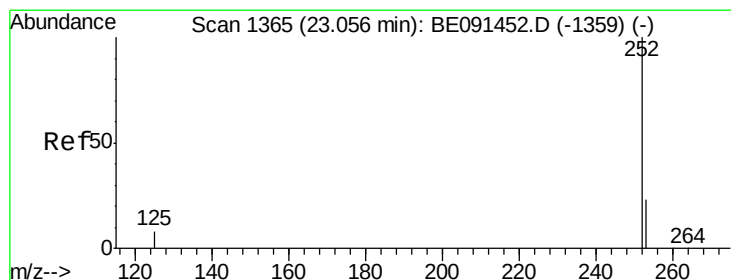
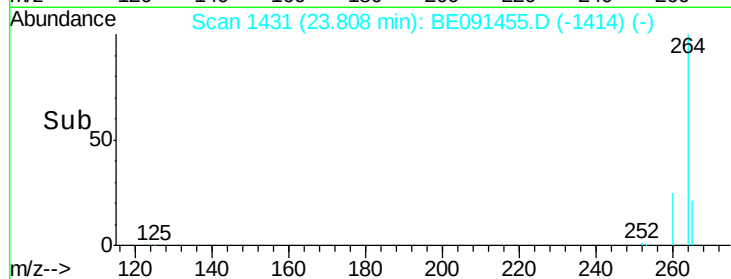
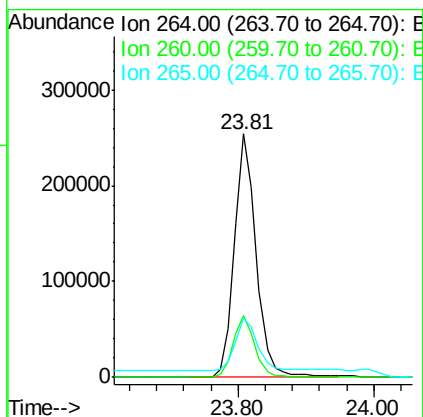
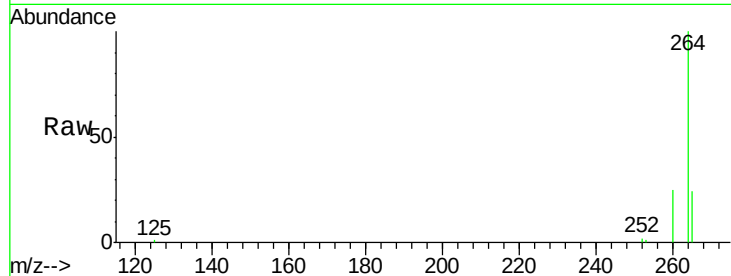


#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Instrument :
BNA_E
ClientSampleId :

Tot Ion:264 Resp: 567966

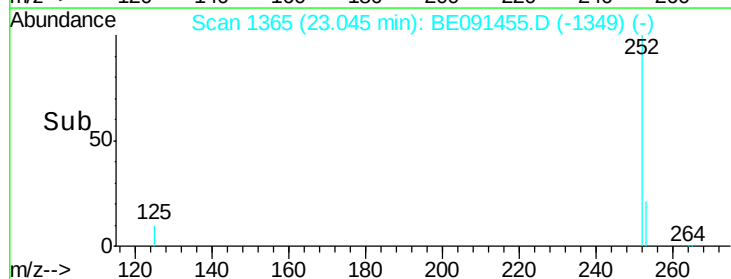
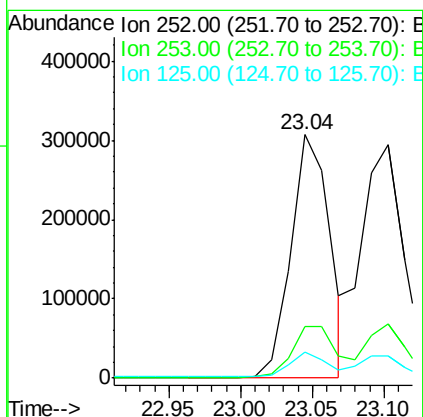
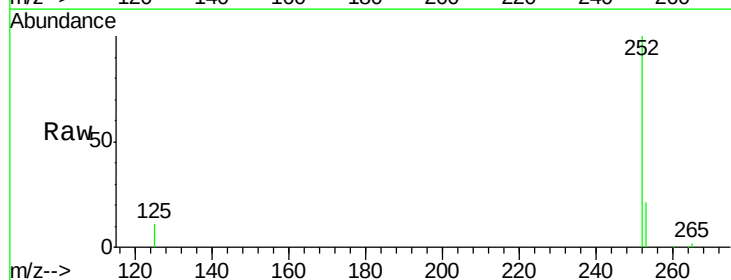
Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.7	31.1
265	24.2	19.4	29.2

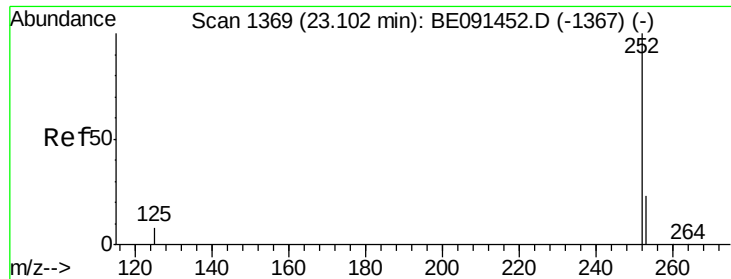


#26
Benzo(b)fluoranthene
Concen: 3.46 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Tgt Ion:252 Resp: 574265

Ion	Ratio	Lower	Upper
252	100		
253	21.1	20.6	30.8
125	10.6	10.2	15.4

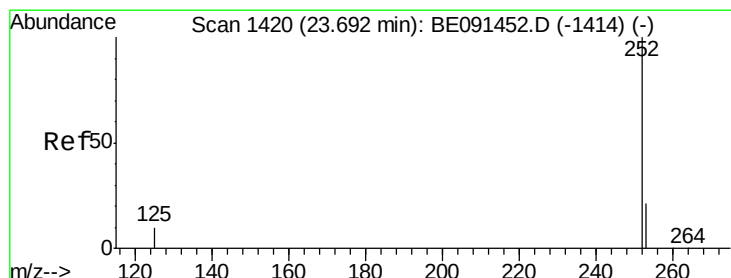
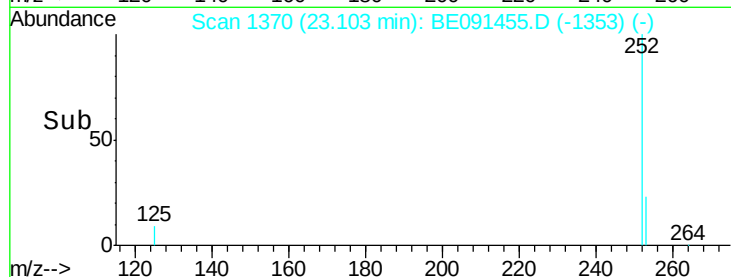
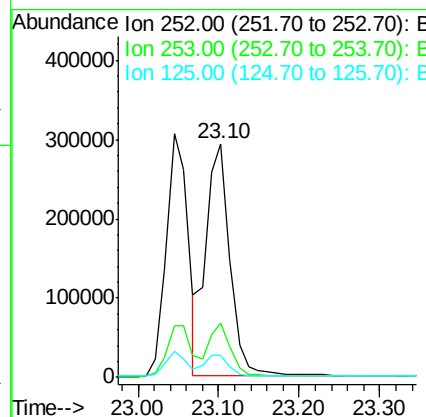
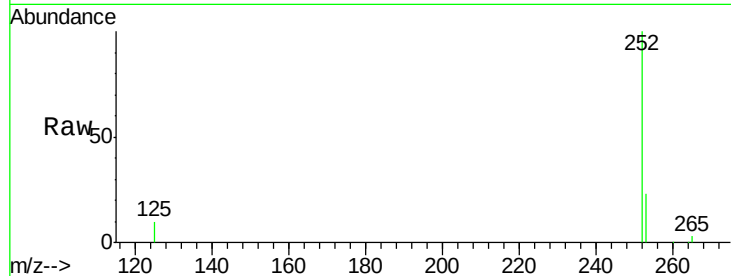




#27
Benzo(k)fluoranthene
Concen: 3.99 ng
RT: 23.10 min Scan# 1370
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

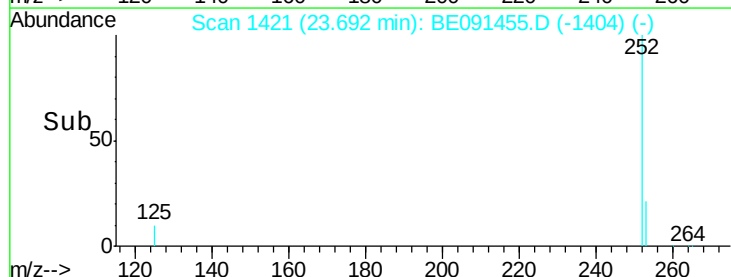
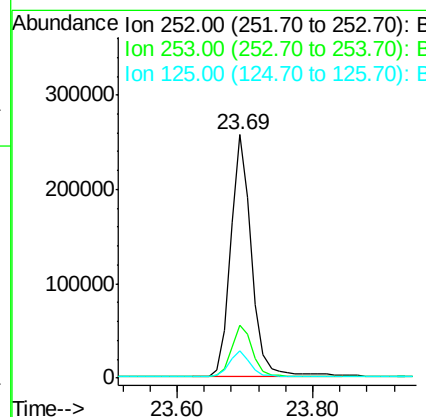
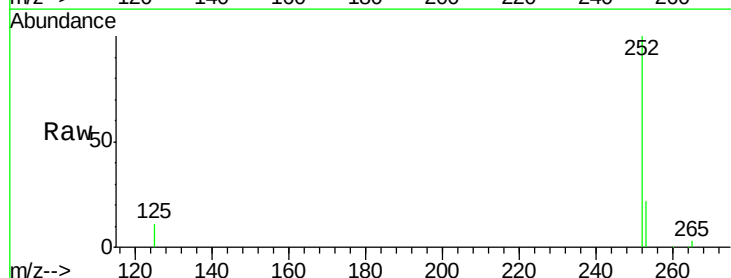
Instrument :
BNA_E
ClientSampleId :

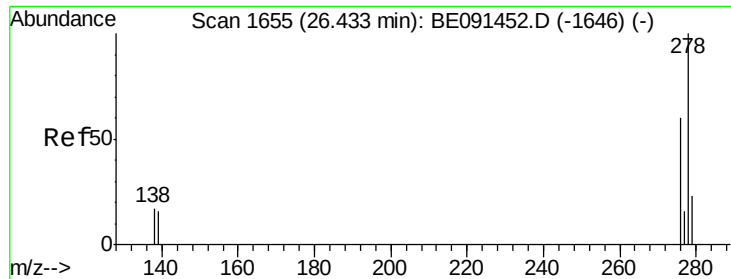
Tot Ion:252 Resp: 611182
Ion Ratio Lower Upper
252 100
253 23.0 20.2 30.2
125 9.5 10.6 16.0#



#28
Benzo(a)pyrene
Concen: 4.00 ng
RT: 23.69 min Scan# 1421
Delta R.T. 0.00 min
Lab File: BE091455.D
Acq: 16 Mar 2016 22:30

Tgt Ion:252 Resp: 559311
Ion Ratio Lower Upper
252 100
253 21.8 20.0 30.0
125 11.0 12.7 19.1#





#29

Dibenzo(a,h)anthracene

Concen: 4.11 ng

RT: 26.43 min Scan# 1656

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

Instrument :

BNA_E

ClientSampleId :

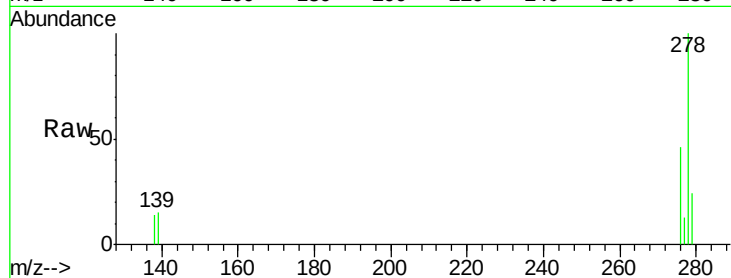
Tot Ion:278 Resp: 552005

Ion Ratio Lower Upper

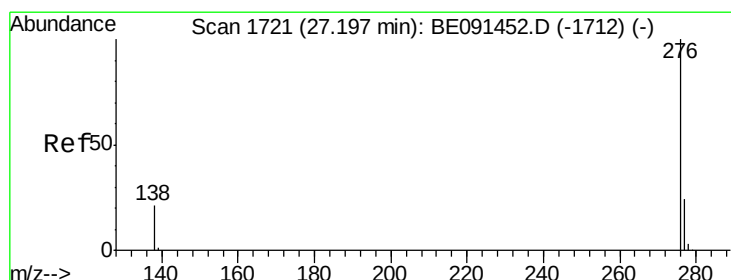
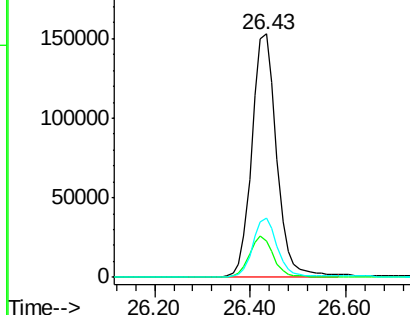
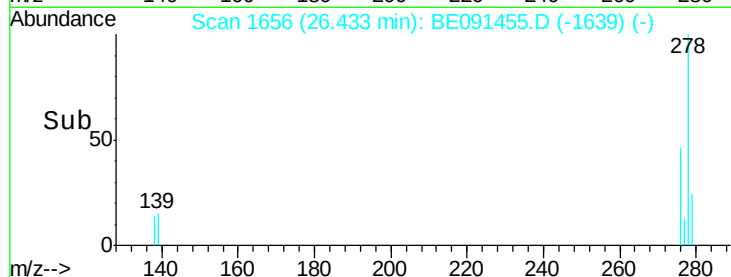
278 100

139 14.7 13.3 19.9

279 24.5 20.9 31.3



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



#30

Benzo(g,h,i)perylene

Concen: 3.89 ng

RT: 27.20 min Scan# 1722

Delta R.T. 0.00 min

Lab File: BE091455.D

Acq: 16 Mar 2016 22:30

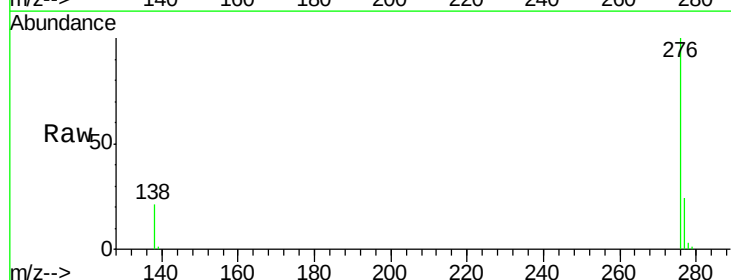
Tgt Ion:276 Resp: 559143

Ion Ratio Lower Upper

276 100

277 23.6 19.8 29.8

138 21.1 17.6 26.4



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

