

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031716\
 Data File : BE091461.D
 Acq On : 17 Mar 2016 10:14
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 14:53:17 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 15:28:00 2016
 Response via : Initial Calibration

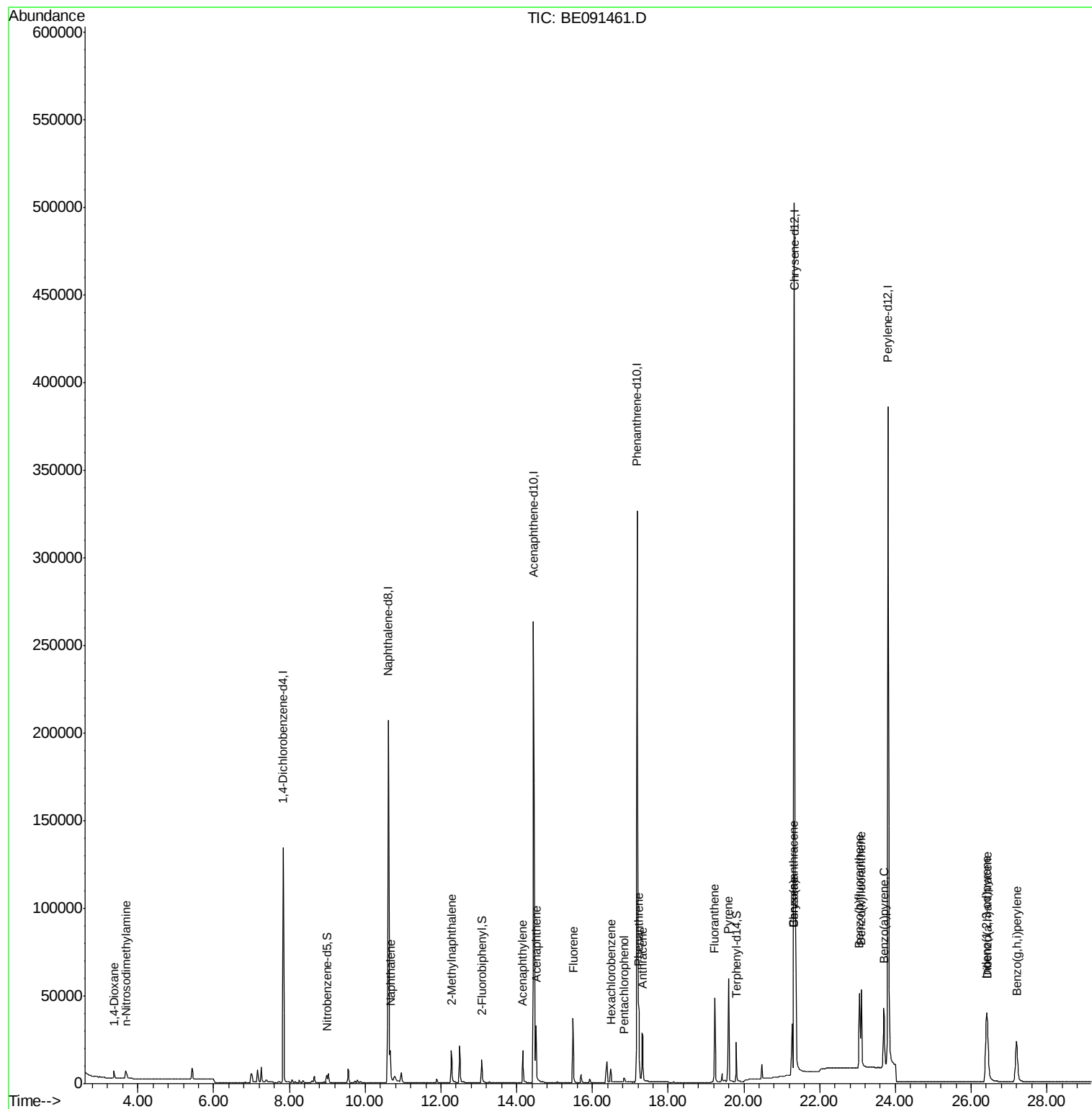
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	66590	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	299868	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	175164	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	446278	5.00	ng	0.00
19) Chrysene-d12	21.33	240	597374	5.00	ng	0.00
25) Perylene-d12	23.81	264	582984	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	4574	0.48	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	16750	0.37	ng	0.00
21) Terphenyl-d14	19.80	244	29917	0.34	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	3150	0.36	ng	# 100
3) n-Nitrosodimethylamine	3.68	42	4299	0.34	ng	# 100
6) Naphthalene	10.67	128	27735	0.38	ng	100
7) 2-Methylnaphthalene	12.27	142	17236	0.36	ng	96
10) Acenaphthylene	14.16	152	24795	0.32	ng	# 100
11) Acenaphthene	14.51	154	20601	0.38	ng	# 100
12) Fluorene	15.49	166	25730	0.37	ng	# 100
14) Hexachlorobenzene	16.48	284	7094	0.36	ng	# 100
15) Pentachlorophenol	16.83	266	2693	0.49	ng	# 81
16) Phenanthrene	17.23	178	48190	0.38	ng	# 100
17) Anthracene	17.31	178	39570	0.35	ng	# 100
18) Fluoranthene	19.23	202	54042	0.37	ng	# 68
20) Pyrene	19.59	202	60729	0.36	ng	# 92
22) Benzo(a)anthracene	21.31	228	75764	0.36	ng	98
23) Chrysene	21.31	228	75737	0.45	ng	# 86
24) Indeno(1,2,3-cd)pyrene	26.40	276	70454	0.35	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	74338	0.37	ng	96
27) Benzo(k)fluoranthene	23.10	252	63594	0.35	ng	98
28) Benzo(a)pyrene	23.69	252	58898	0.35	ng	97
29) Dibenzo(a,h)anthracene	26.43	278	57833	0.35	ng	99
30) Benzo(g,h,i)perylene	27.20	276	62117	0.36	ng	99

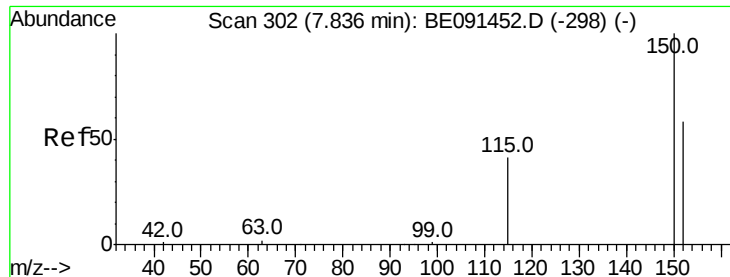
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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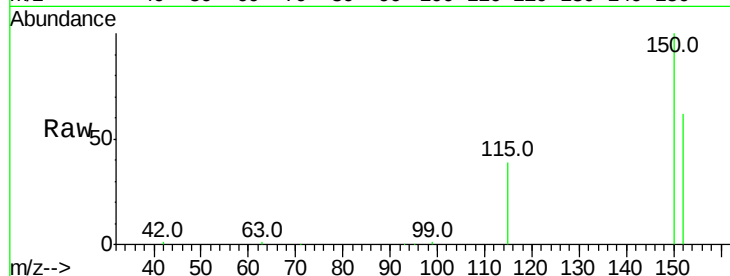




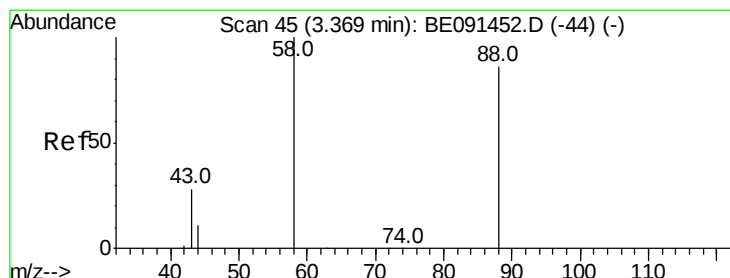
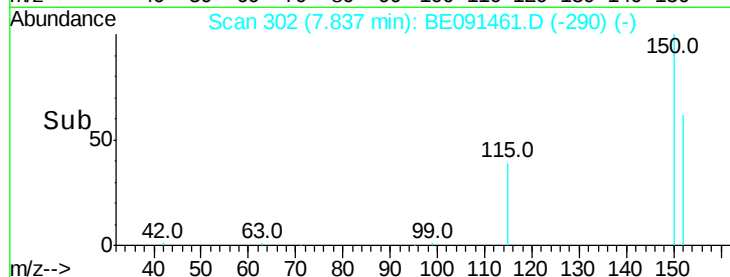
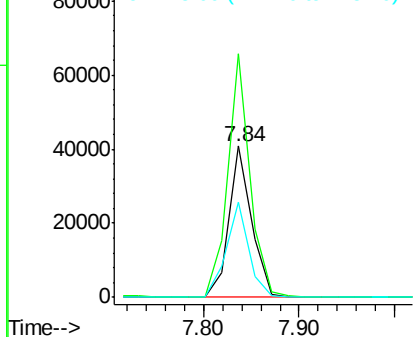
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.84 min Scan# 302
 Delta R.T. 0.00 min
 Lab File: BE091461.D
 Acq: 17 Mar 2016 10:14

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:152 Resp: 66590
 Ion Ratio Lower Upper
 152 100
 150 161.0 136.8 205.2
 115 63.1 56.9 85.3

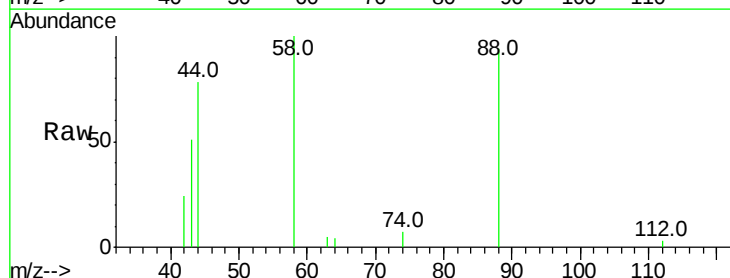


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

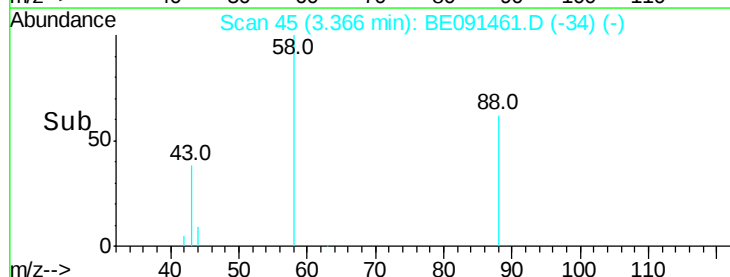
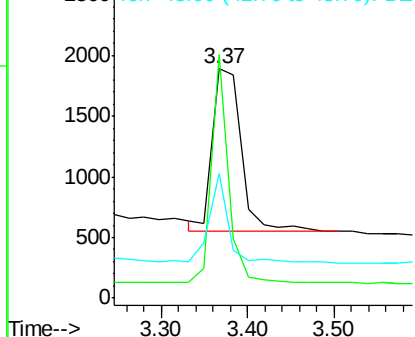


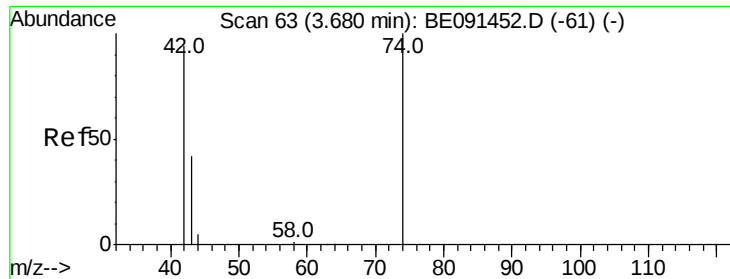
#2
 1,4-Dioxane
 Concen: 0.36 ng
 RT: 3.37 min Scan# 45
 Delta R.T. -0.00 min
 Lab File: BE091461.D
 Acq: 17 Mar 2016 10:14

Tgt Ion: 88 Resp: 3150
 Ion Ratio Lower Upper
 88 100
 58 80.4 0.0 0.0#
 43 37.6 0.0 0.0#



Abundance Ion 88.00 (87.70 to 88.70): BE0
 Ion 58.00 (57.70 to 58.70): BE0
 Ion 43.00 (42.70 to 43.70): BE0



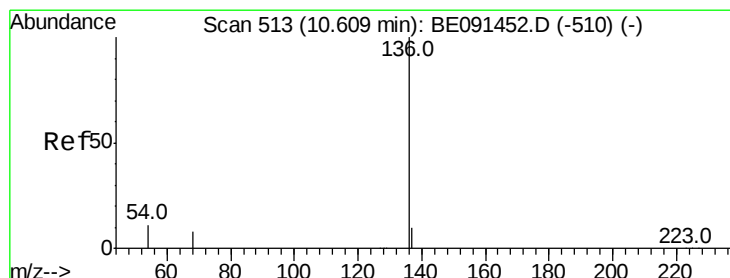
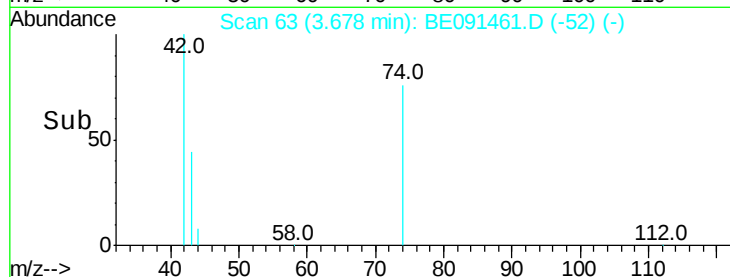
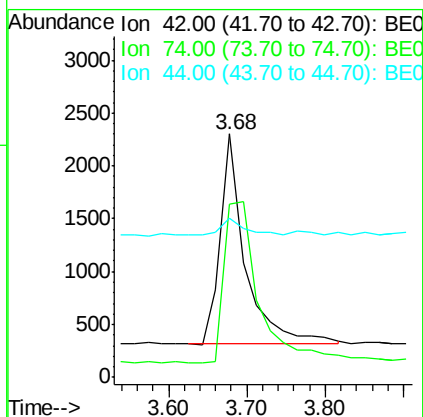
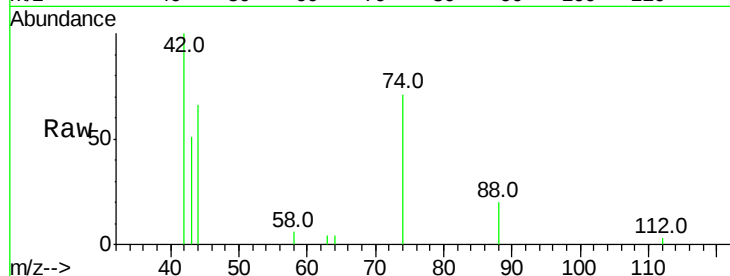


#3

n-Nitrosodimethylamine
 Concen: 0.34 ng
 RT: 3.68 min Scan# 63
 Delta R.T. -0.00 min
 Lab File: BE091461.D
 Acq: 17 Mar 2016 10:14

Instrument :
 BNA_E
 ClientSampleId :

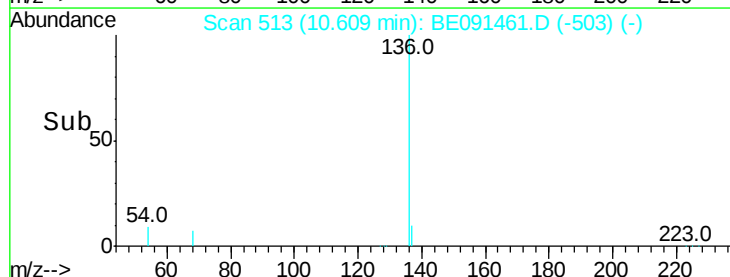
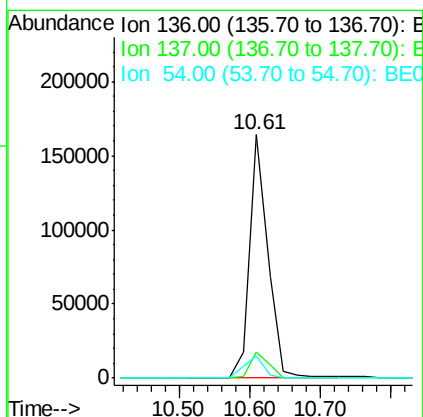
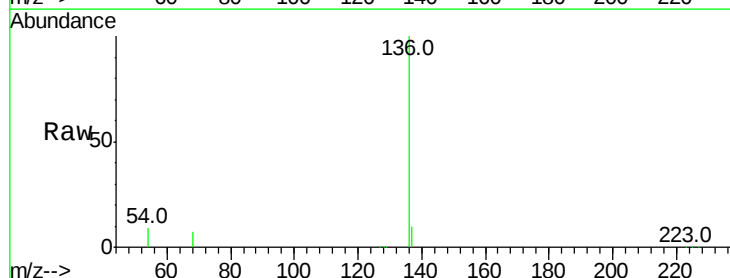
Tot Ion: 42 Resp: 4299
 Ion Ratio Lower Upper
 42 100
 74 110.6 0.0 0.0#
 44 8.4 0.0 0.0#

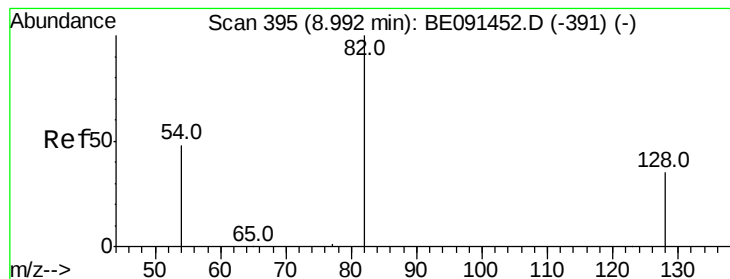


#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 10.61 min Scan# 513
 Delta R.T. 0.00 min
 Lab File: BE091461.D
 Acq: 17 Mar 2016 10:14

Tgt Ion: 136 Resp: 299868
 Ion Ratio Lower Upper
 136 100
 137 10.5 8.0 12.0
 54 8.9 9.1 13.7#





#5

Nitrobenzene-d5

Concen: 0.48 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampled :

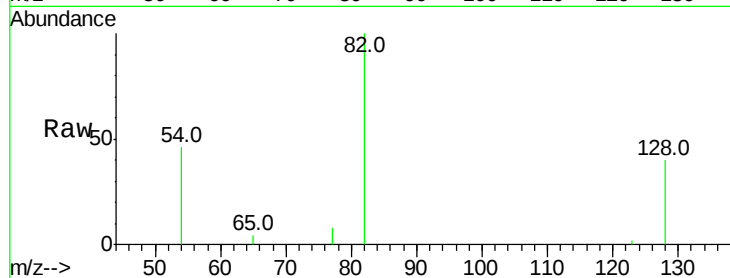
Tot Ion: 82 Resp: 4574

Ion Ratio Lower Upper

82 100

128 40.0 29.4 44.2

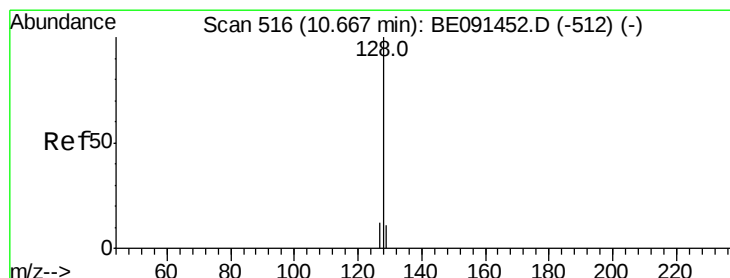
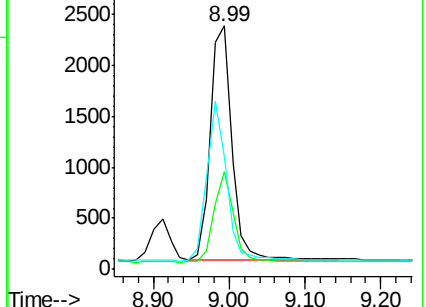
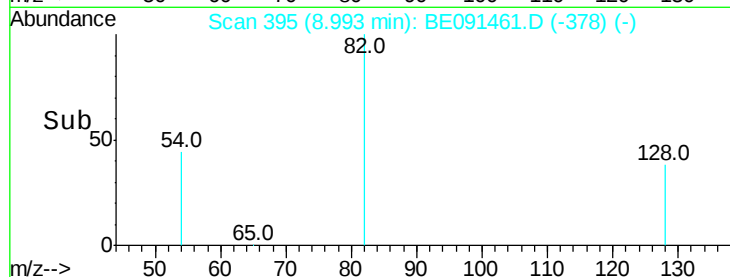
54 46.5 39.8 59.8



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: 0.38 ng

RT: 10.67 min Scan# 516

Delta R.T. 0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

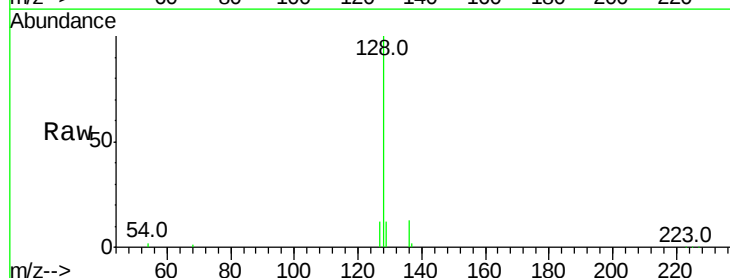
Tgt Ion: 128 Resp: 27735

Ion Ratio Lower Upper

128 100

129 11.9 9.4 14.0

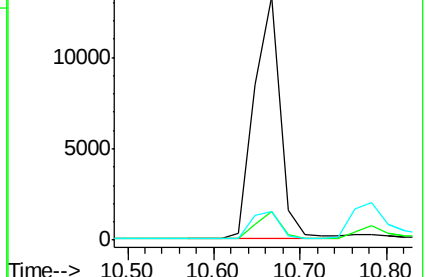
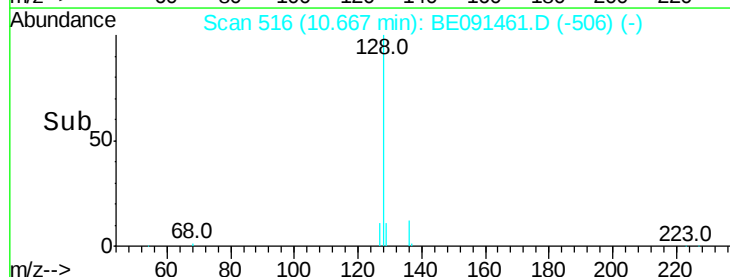
127 11.9 9.7 14.5

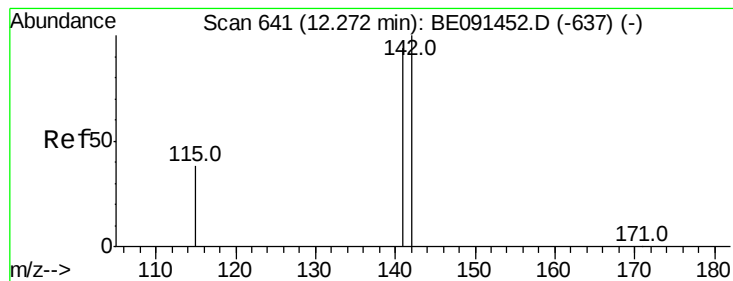


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.36 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

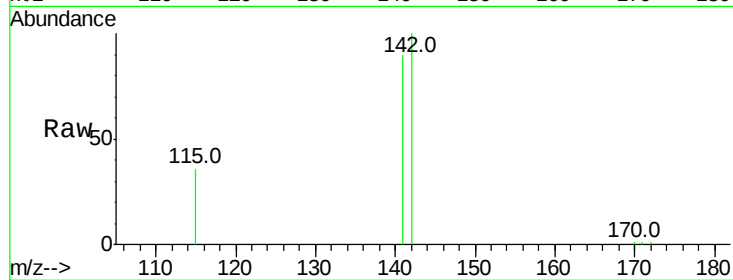
Tot Ion:142 Resp: 17236

Ion Ratio Lower Upper

142 100

141 90.1 75.0 112.4

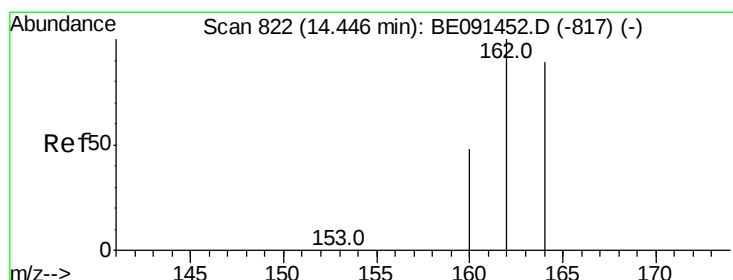
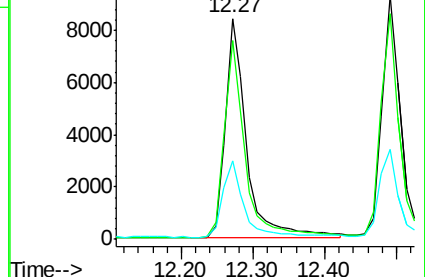
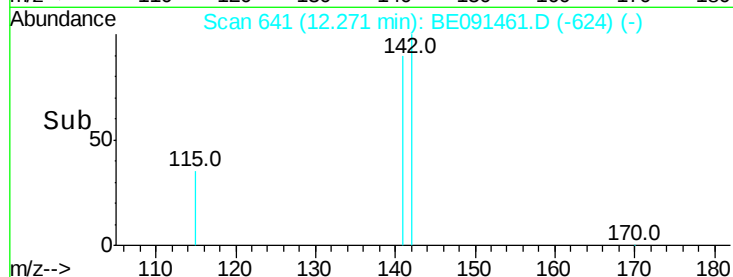
115 35.8 30.8 46.2



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: BE091461.D

Acq: 17 Mar 2016 10:14

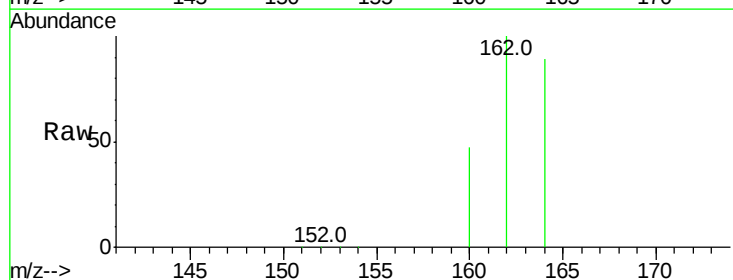
Tgt Ion:164 Resp: 175164

Ion Ratio Lower Upper

164 100

162 112.9 89.8 134.8

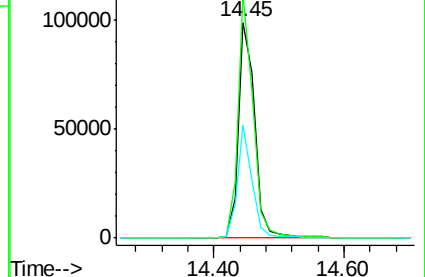
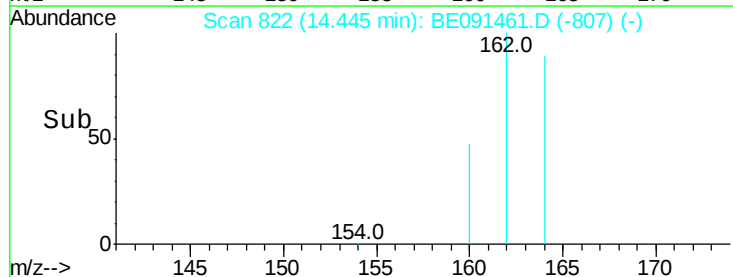
160 52.7 43.1 64.7

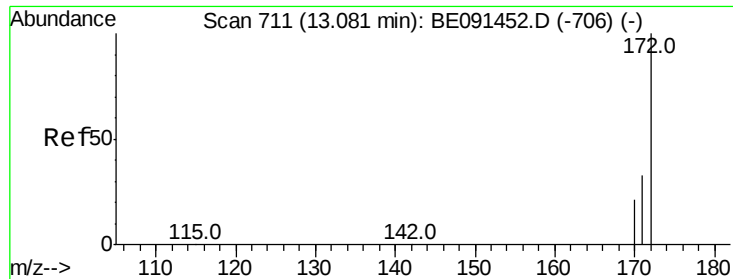


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.37 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

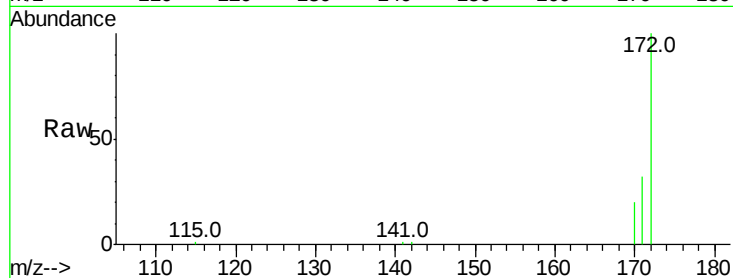
Tot Ion:172 Resp: 16750

Ion Ratio Lower Upper

172 100

171 31.7 26.7 40.1

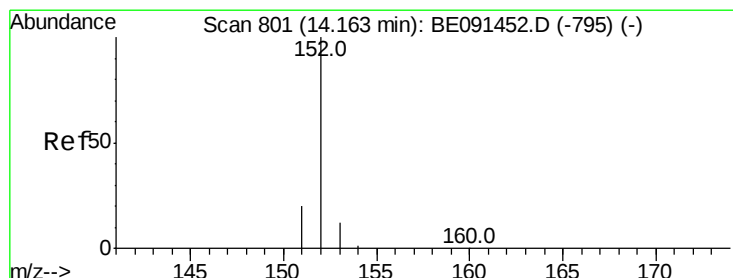
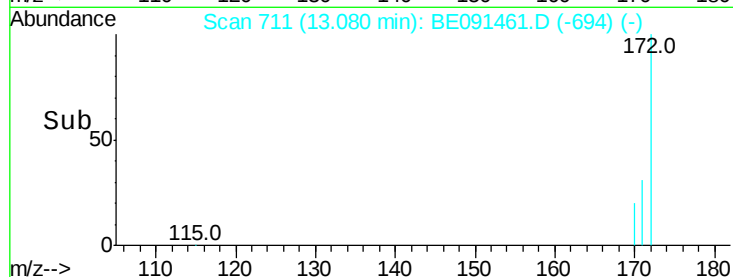
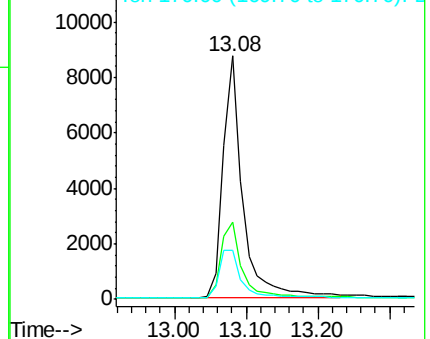
170 20.4 17.4 26.2



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: 0.32 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

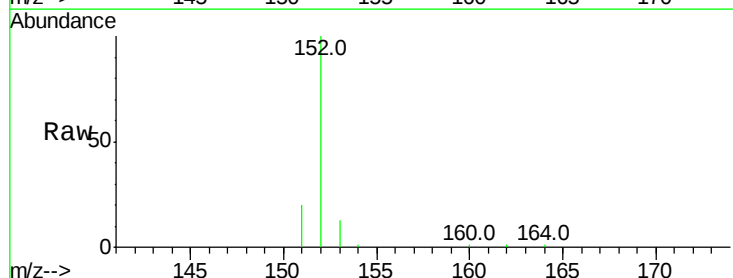
Tgt Ion:152 Resp: 24795

Ion Ratio Lower Upper

152 100

151 20.1 0.0 0.0#

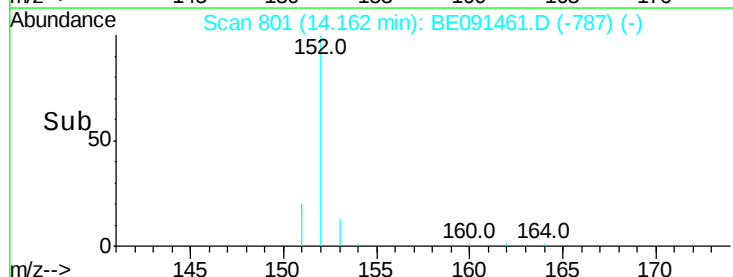
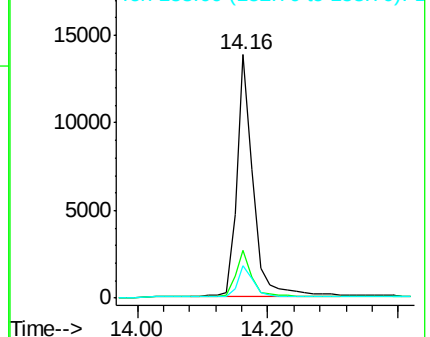
153 13.7 0.0 0.0#

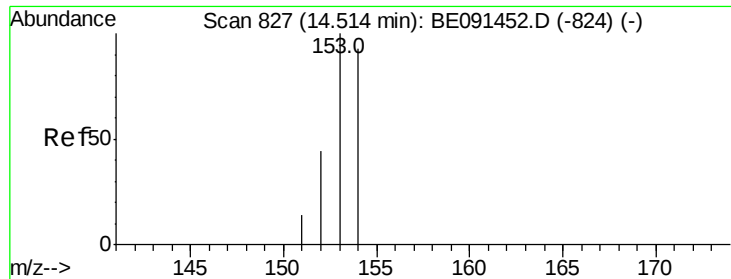


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

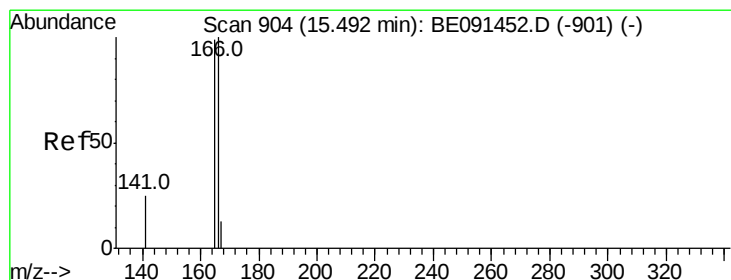
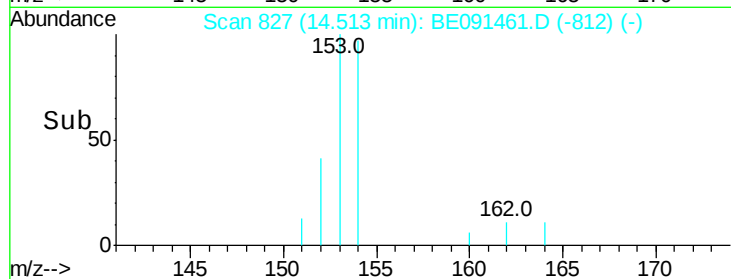
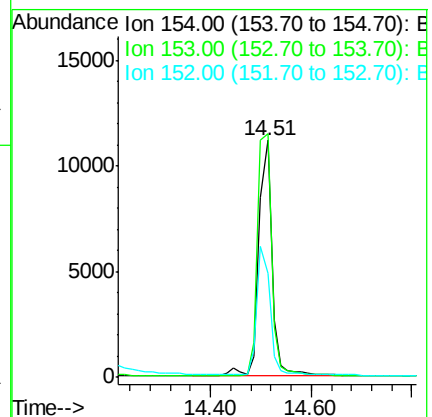
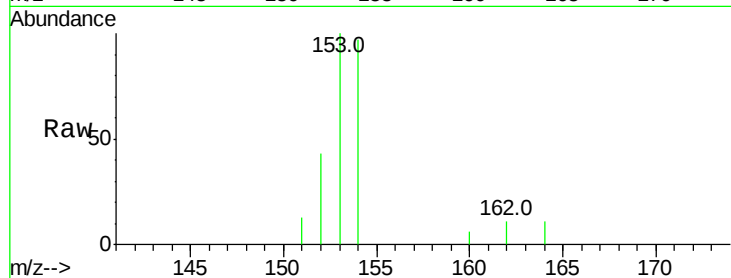




#11
Acenaphthene
Concen: 0.38 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

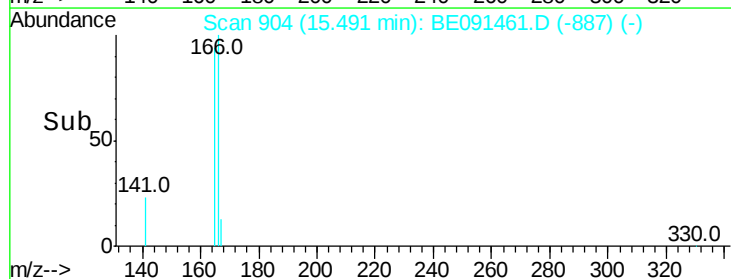
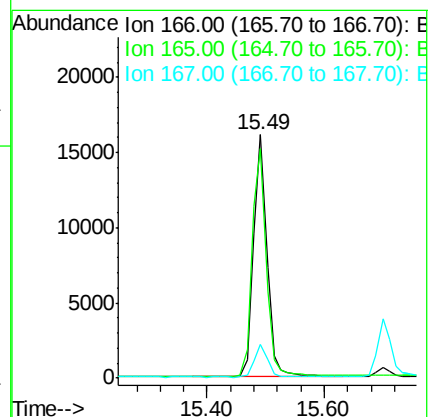
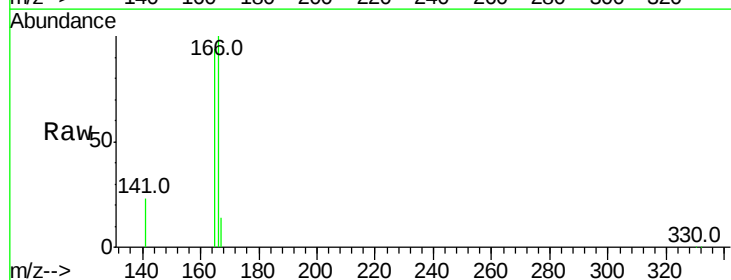
Instrument :
BNA_E
ClientSampleId :

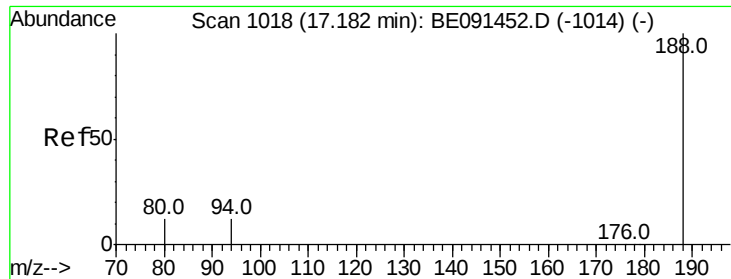
Tot Ion:154 Resp: 20601
Ion Ratio Lower Upper
154 100
153 109.6 0.0 0.0#
152 53.1 0.0 0.0#



#12
Fluorene
Concen: 0.37 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

Tgt Ion:166 Resp: 25730
Ion Ratio Lower Upper
166 100
165 98.3 0.0 0.0#
167 13.5 0.0 0.0#

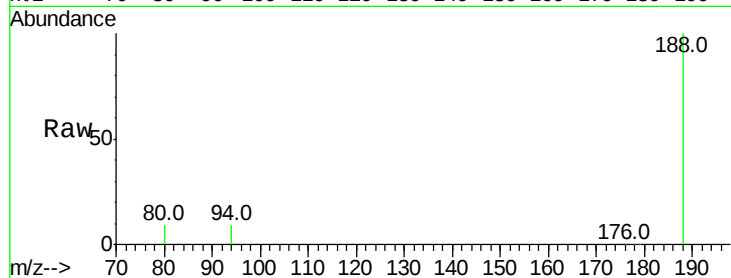




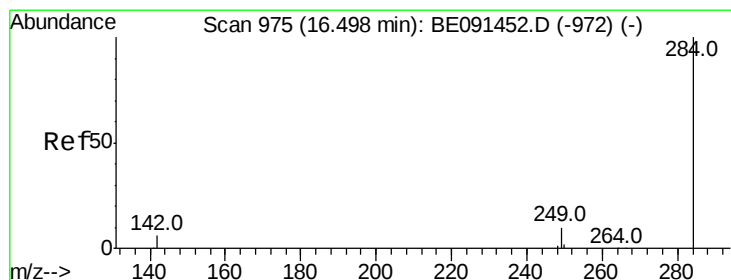
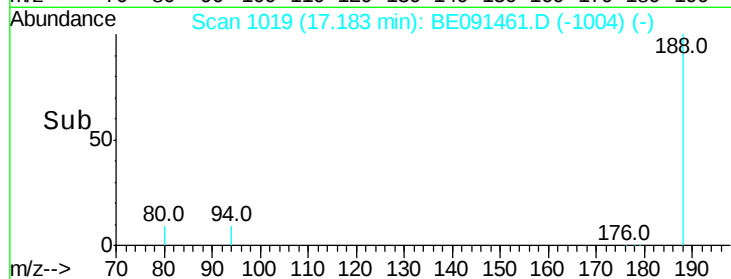
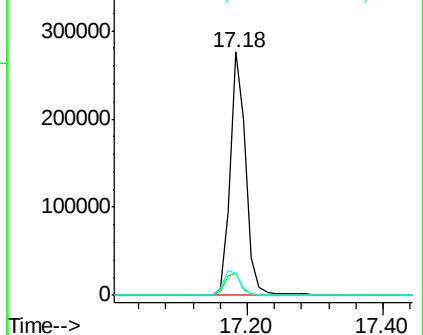
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 446278
Ion Ratio Lower Upper
188 100
94 9.1 9.5 14.3#
80 9.0 9.8 14.8#

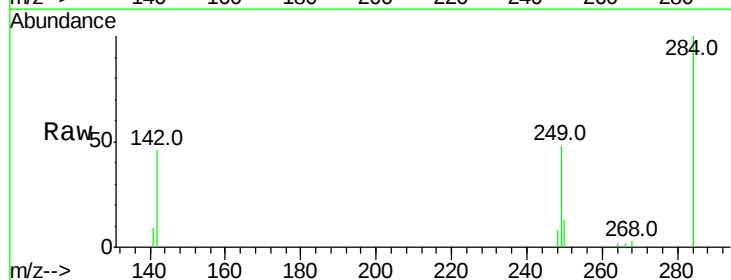


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

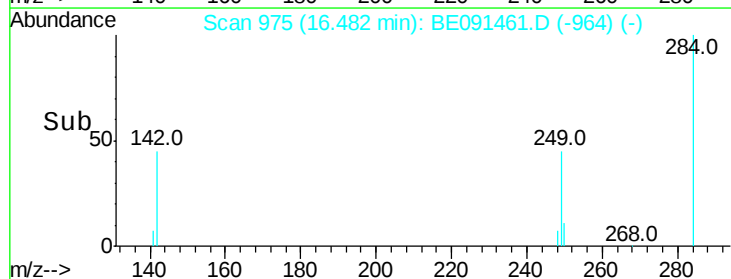
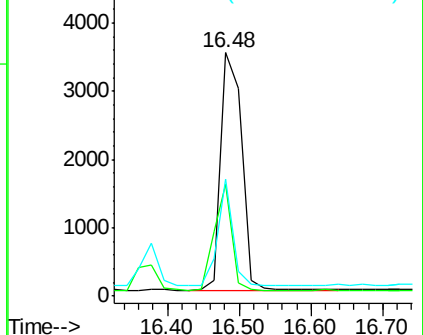


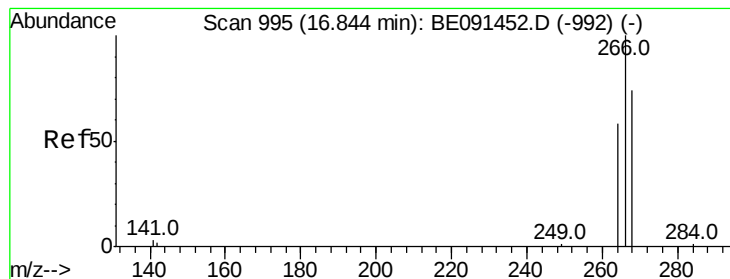
#14
Hexachlorobenzene
Concen: 0.36 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

Tgt Ion:284 Resp: 7094
Ion Ratio Lower Upper
284 100
142 37.8 0.0 0.0#
249 32.1 0.0 0.0#



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.49 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.02 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampled :

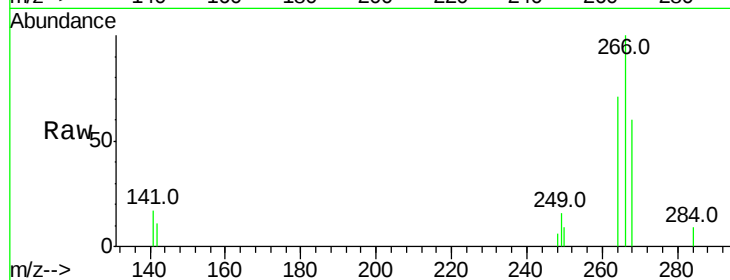
Tot Ion:266 Resp: 2693

Ion Ratio Lower Upper

266 100

268 60.1 61.0 91.6#

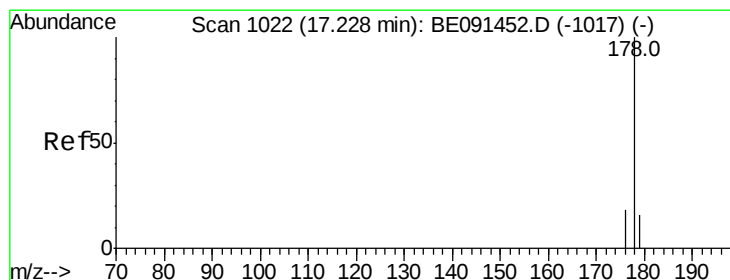
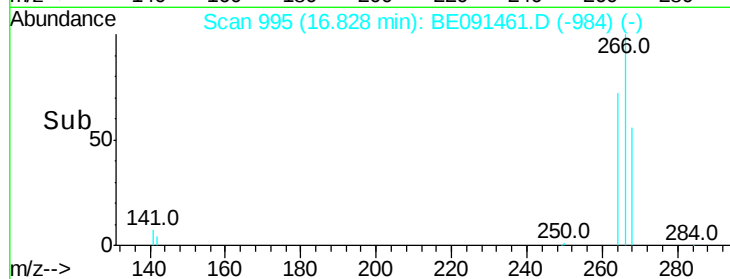
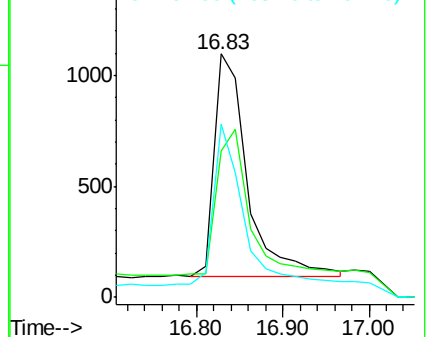
264 71.1 45.7 68.5#



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: 0.38 ng

RT: 17.23 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

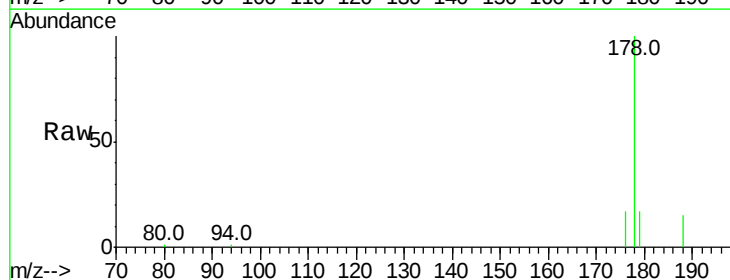
Tgt Ion:178 Resp: 48190

Ion Ratio Lower Upper

178 100

176 19.3 0.0 0.0#

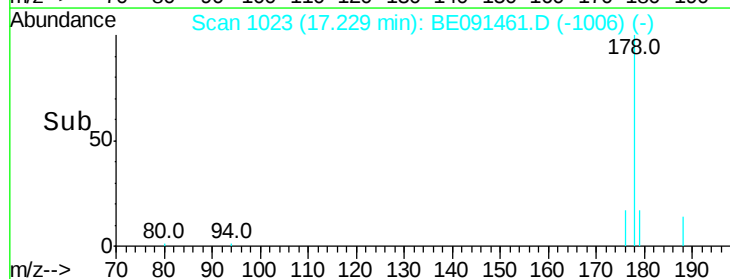
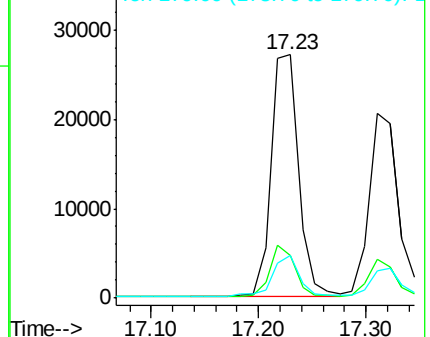
179 16.3 0.0 0.0#

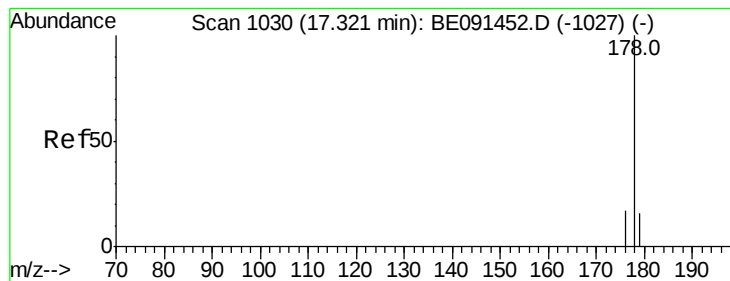


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.35 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

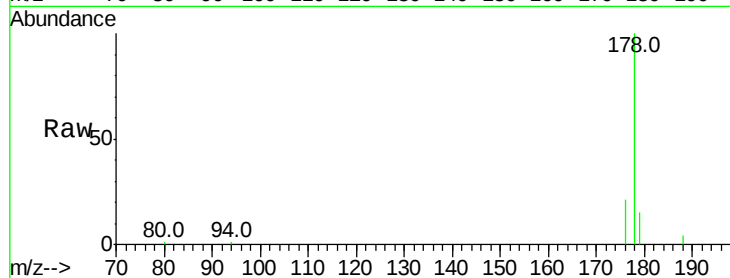
Tot Ion:178 Resp: 39570

Ion Ratio Lower Upper

178 100

176 18.7 0.0 0.0#

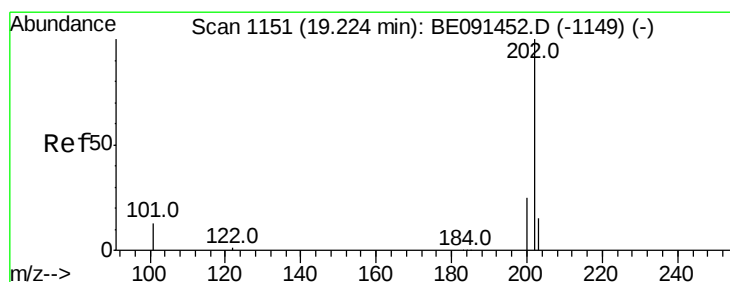
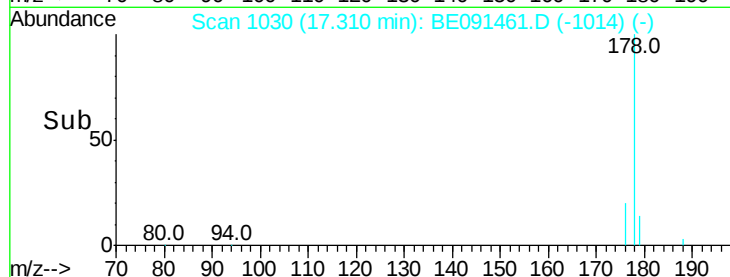
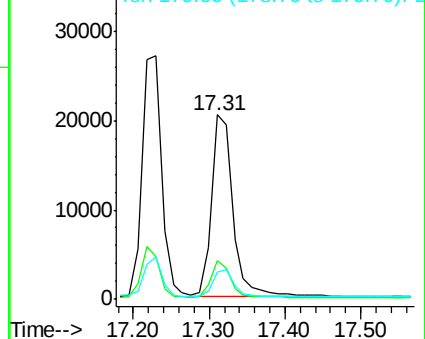
179 15.4 0.0 0.0#



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



#18

Fluoranthene

Concen: 0.37 ng

RT: 19.23 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

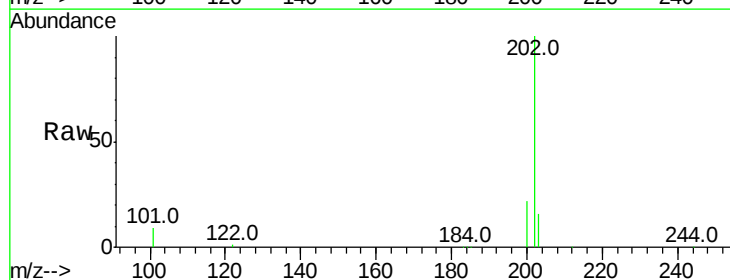
Tgt Ion:202 Resp: 54042

Ion Ratio Lower Upper

202 100

101 10.8 1.1 1.7#

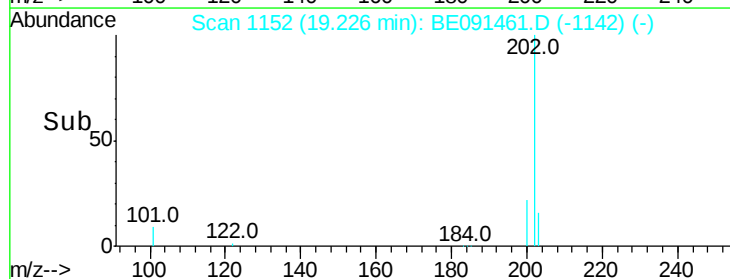
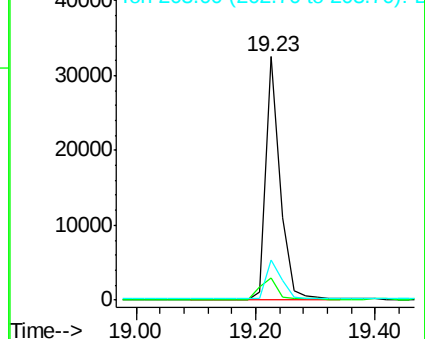
203 17.7 1.0 1.6#

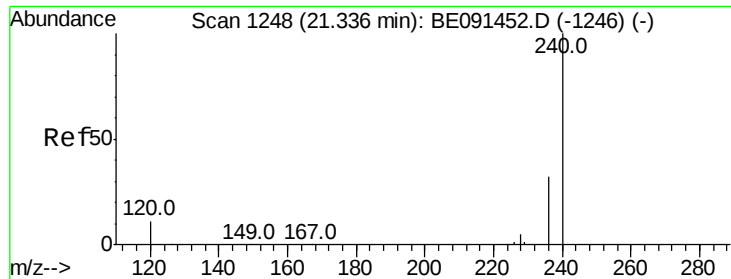


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

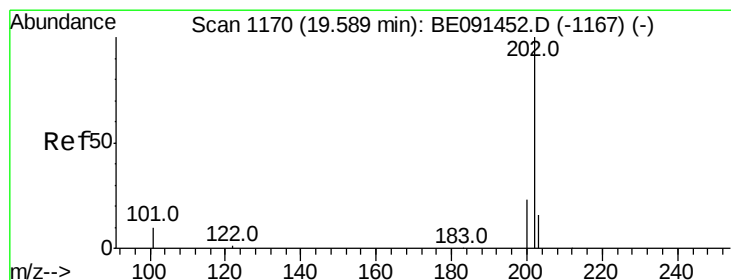
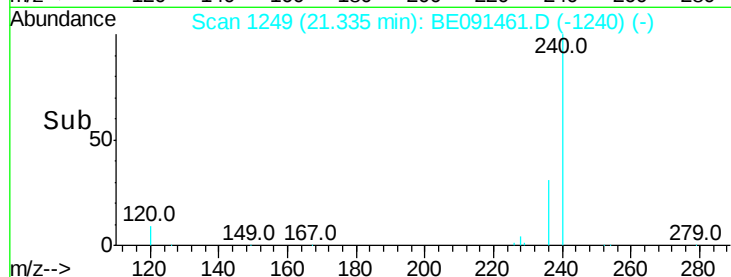
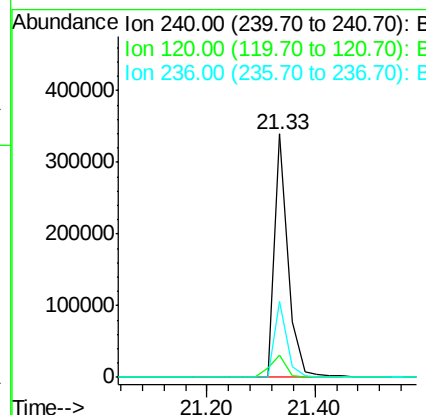
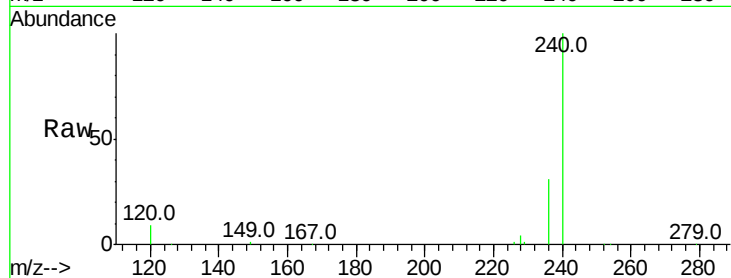




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1249
Delta R.T. -0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

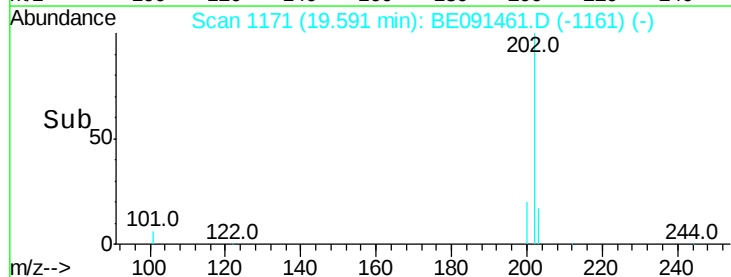
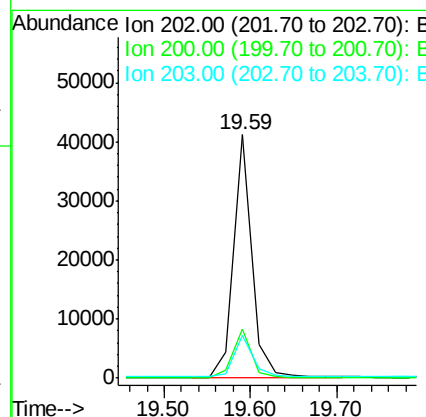
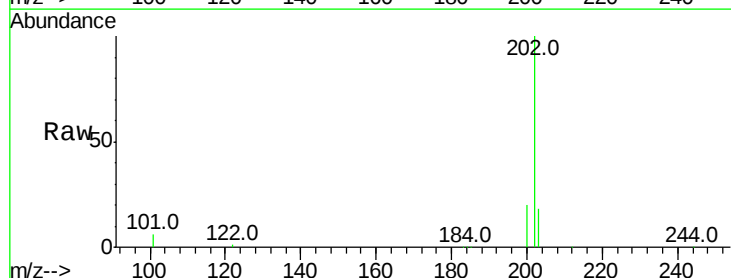
Instrument :
BNA_E
ClientSampleId :

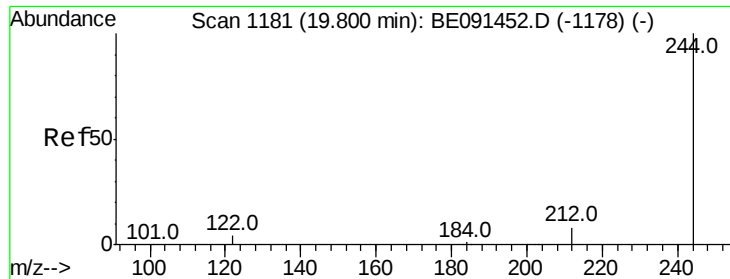
Tot Ion:240 Resp: 597374
Ion Ratio Lower Upper
240 100
120 9.0 8.8 13.2
236 31.3 25.7 38.5



#20
Pyrene
Concen: 0.36 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

Tgt Ion:202 Resp: 60729
Ion Ratio Lower Upper
202 100
200 20.6 0.0 0.0#
203 18.0 0.1 0.1#





#21

Terphenyl-d14

Concen: 0.34 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampled :

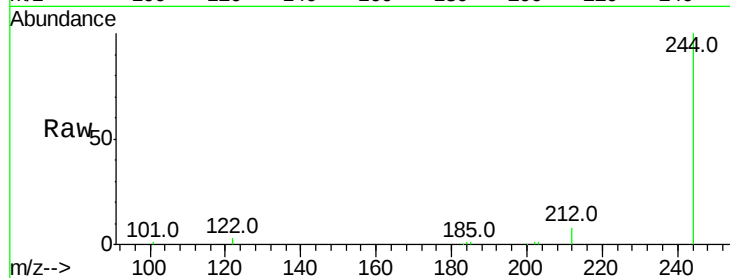
Tot Ion:244 Resp: 29917

Ion Ratio Lower Upper

244 100

212 7.5 6.6 10.0

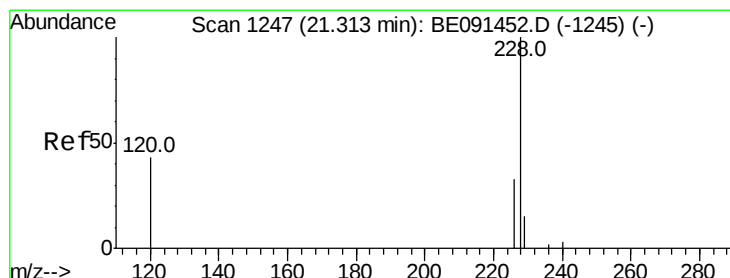
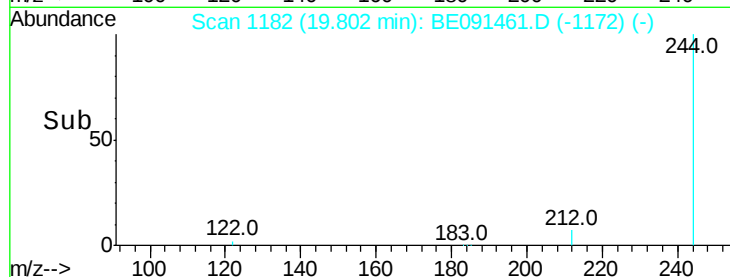
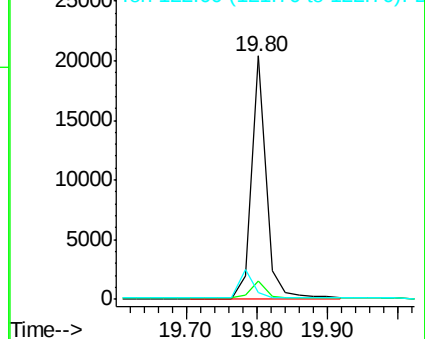
122 2.9 3.4 5.0#



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: 0.36 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

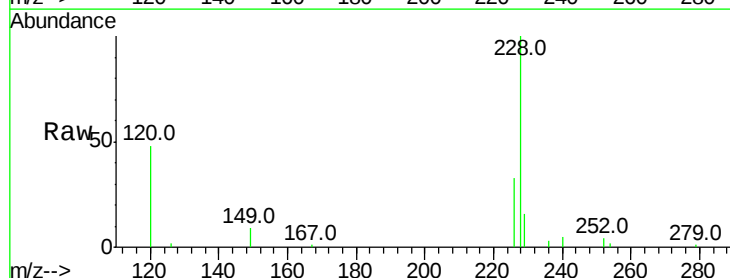
Tgt Ion:228 Resp: 75764

Ion Ratio Lower Upper

228 100

226 32.9 27.1 40.7

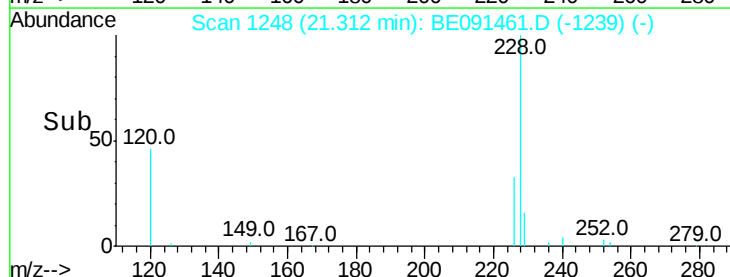
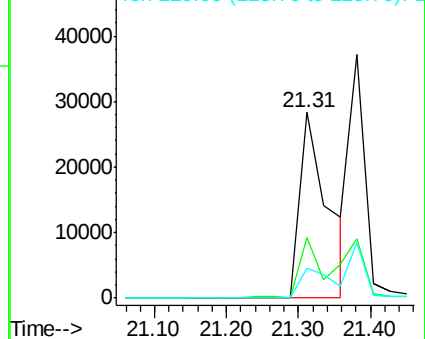
229 16.0 12.3 18.5

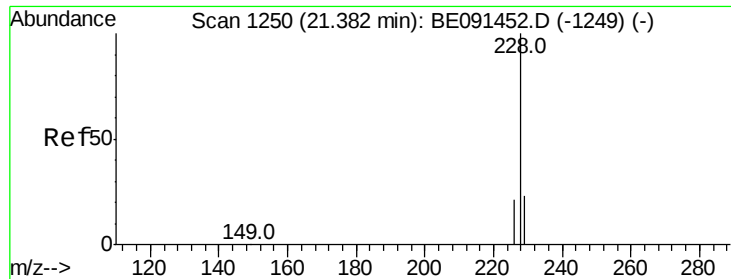


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.45 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

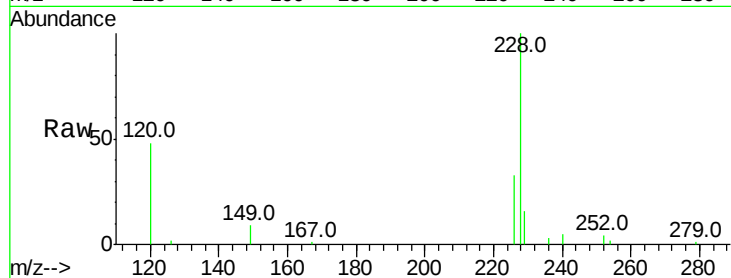
Tot Ion:228 Resp: 75737

Ion Ratio Lower Upper

228 100

226 32.9 20.3 30.5#

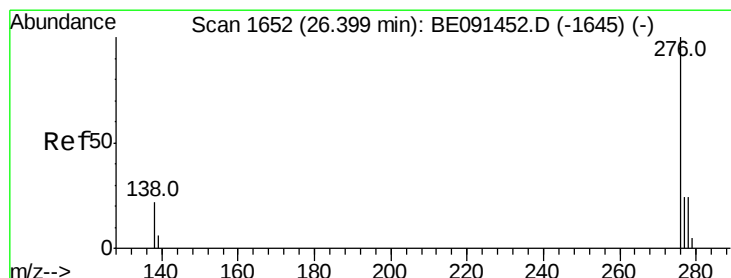
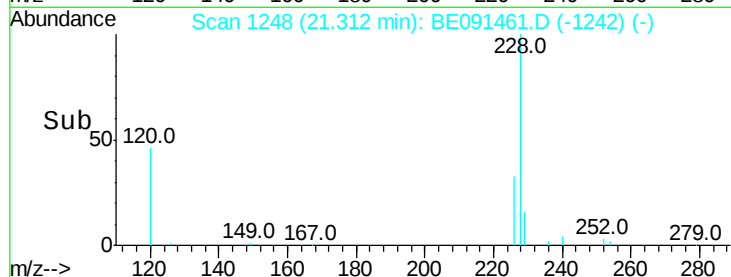
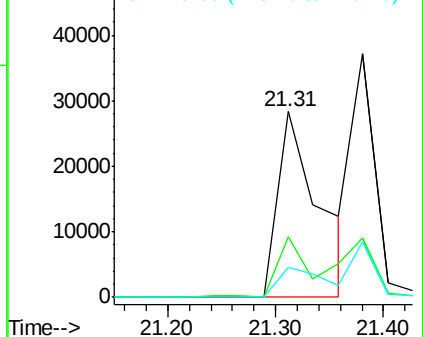
229 16.0 17.4 26.0#



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: 0.35 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

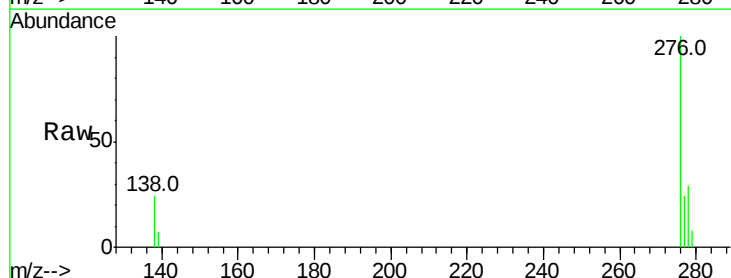
Tgt Ion:276 Resp: 70454

Ion Ratio Lower Upper

276 100

138 24.8 0.0 0.0#

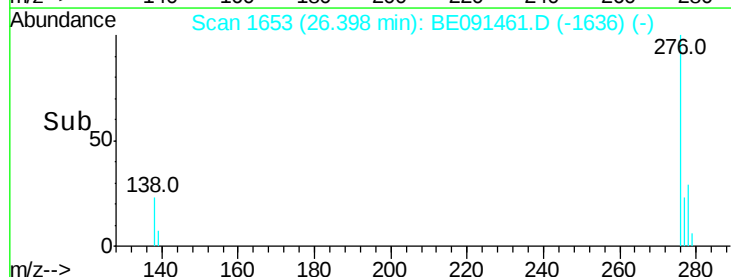
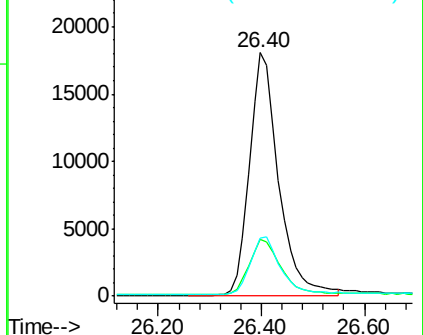
277 24.4 0.0 0.0#

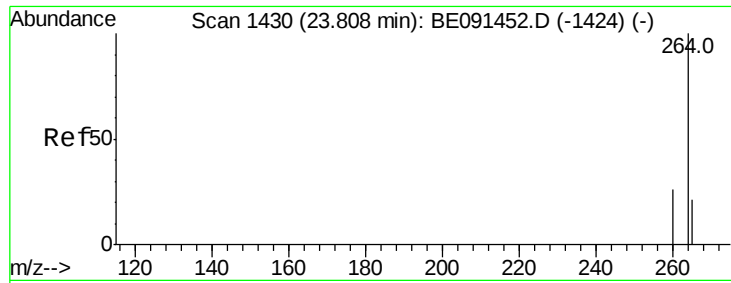


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

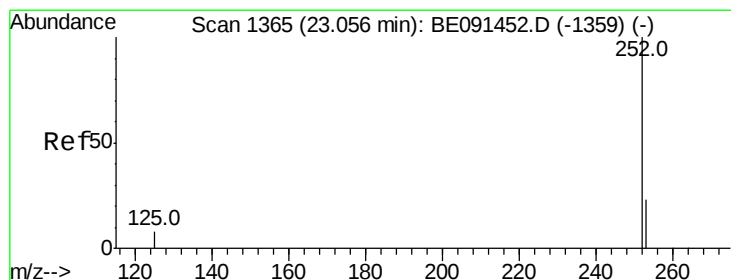
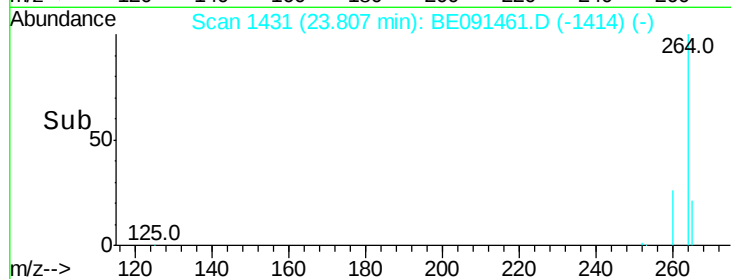
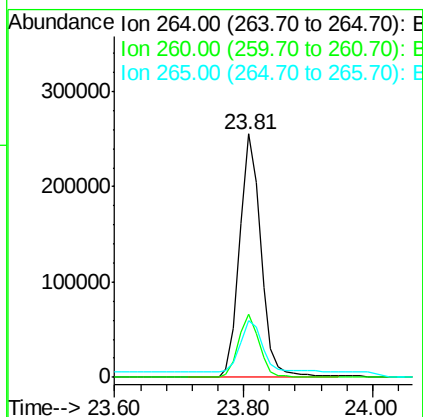
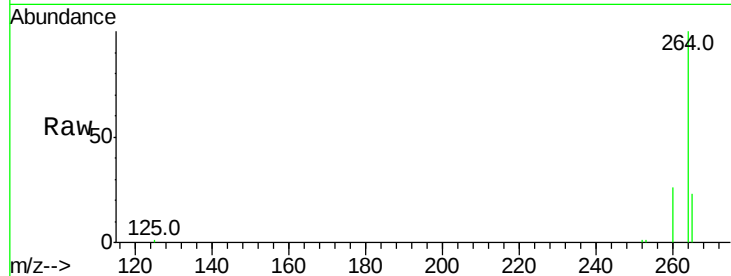




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

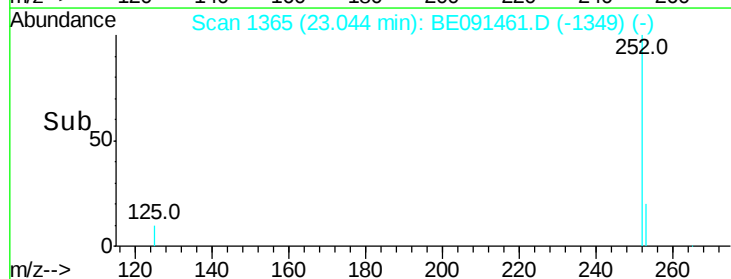
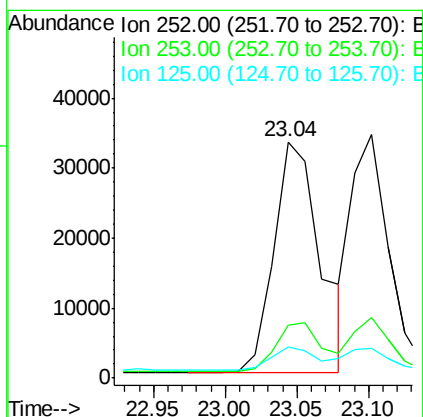
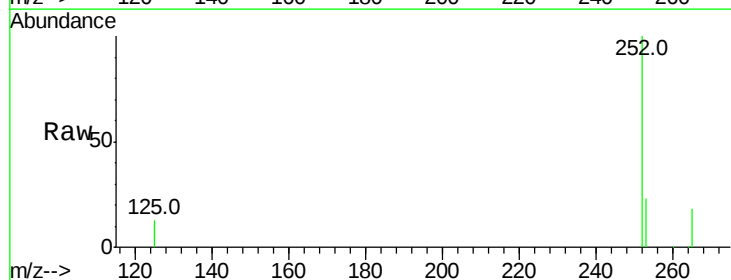
Instrument :
BNA_E
ClientSampleId :

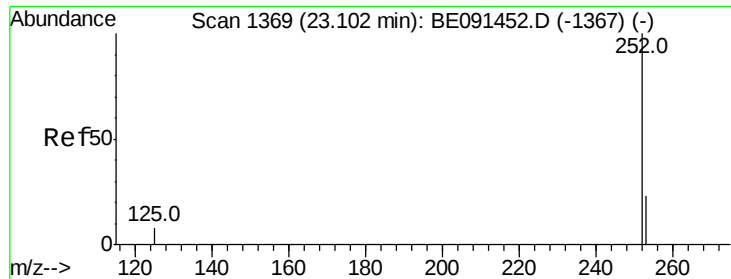
Tot Ion:264 Resp: 582984
Ion Ratio Lower Upper
264 100
260 25.7 20.7 31.1
265 23.5 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 0.37 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BE091461.D
Acq: 17 Mar 2016 10:14

Tgt Ion:252 Resp: 74338
Ion Ratio Lower Upper
252 100
253 22.7 20.6 30.8
125 13.2 10.2 15.4





#27

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 23.10 min Scan# 1370

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

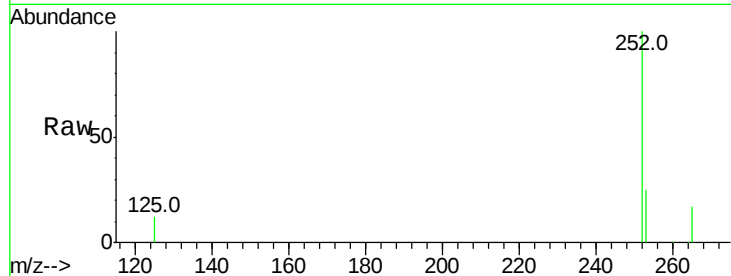
Tot Ion:252 Resp: 63594

Ion Ratio Lower Upper

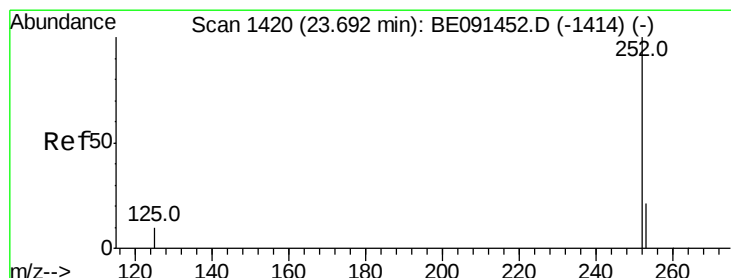
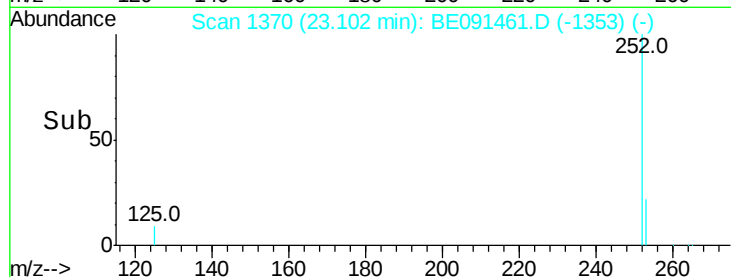
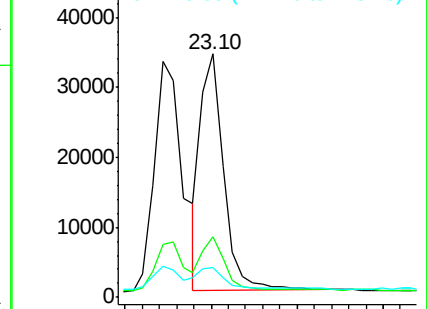
252 100

253 24.6 20.2 30.2

125 12.3 10.6 16.0



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

Benzo(a)pyrene

Concen: 0.35 ng

RT: 23.69 min Scan# 1421

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

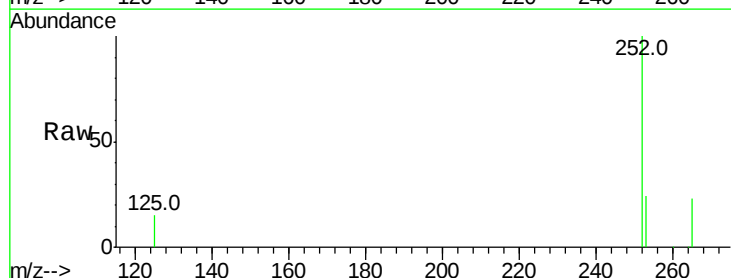
Tgt Ion:252 Resp: 58898

Ion Ratio Lower Upper

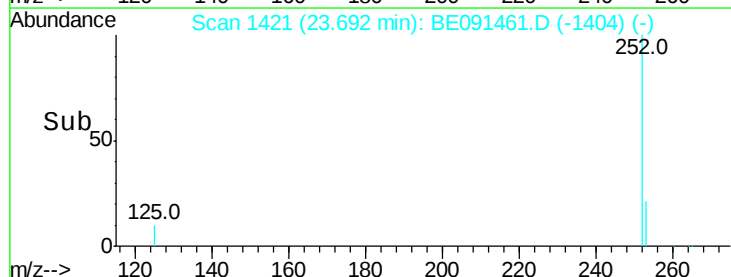
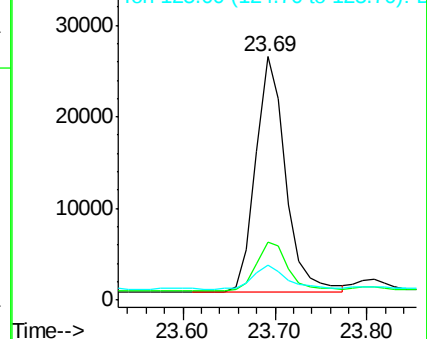
252 100

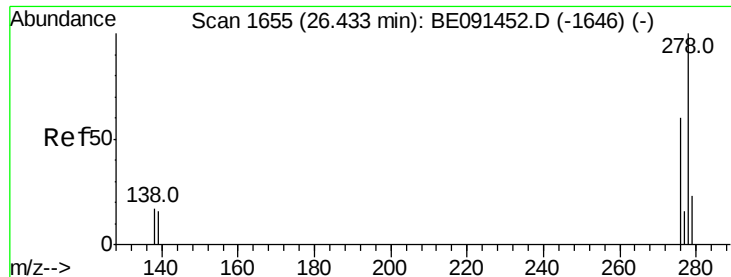
253 23.9 20.0 30.0

125 14.6 12.7 19.1



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





#29

Dibenzo(a,h)anthracene

Concen: 0.35 ng

RT: 26.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

Instrument :

BNA_E

ClientSampleId :

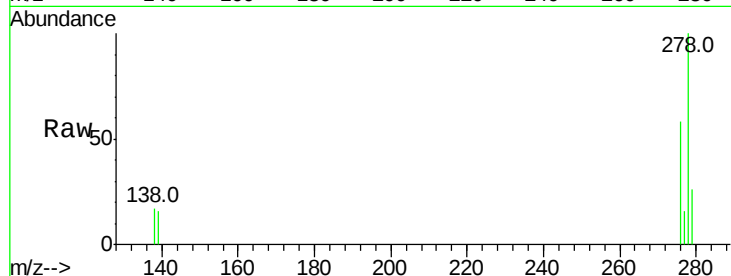
Tot Ion:278 Resp: 57833

Ion Ratio Lower Upper

278 100

139 16.1 13.3 19.9

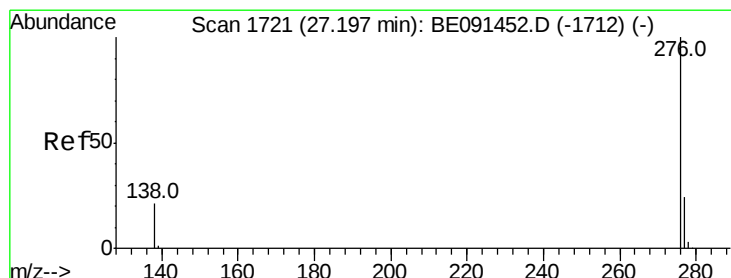
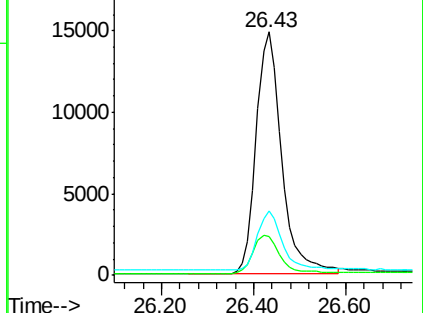
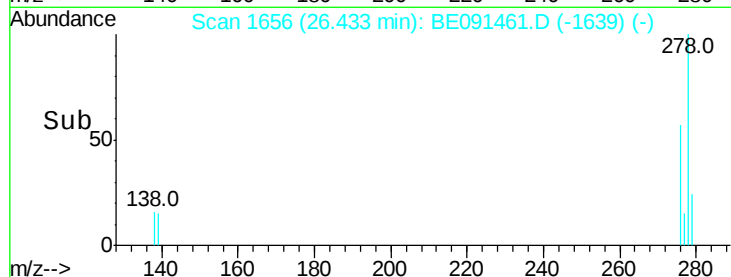
279 26.2 20.9 31.3



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: 0.36 ng

RT: 27.20 min Scan# 1722

Delta R.T. -0.00 min

Lab File: BE091461.D

Acq: 17 Mar 2016 10:14

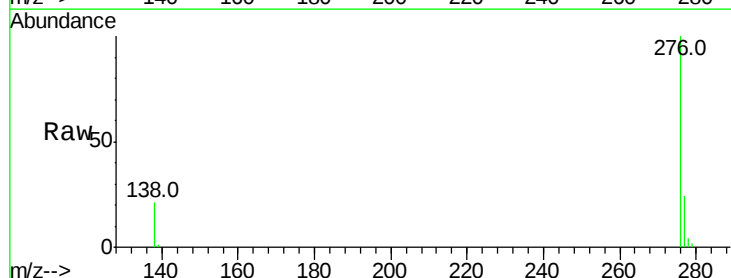
Tgt Ion:276 Resp: 62117

Ion Ratio Lower Upper

276 100

277 24.5 19.8 29.8

138 21.2 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

