

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE052316\
 Data File : BE091851.D
 Acq On : 23 May 2016 17:30
 Operator : UM/SJ
 Sample : H3156-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MSD

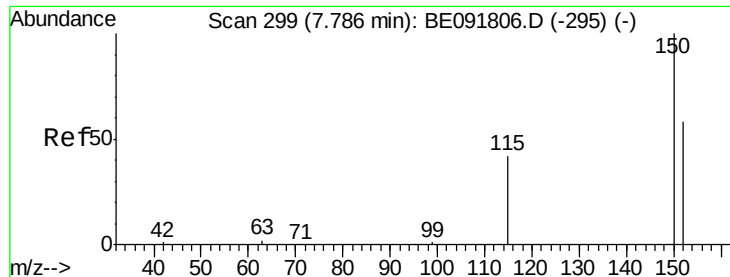
Quant Time: May 24 02:21:40 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 19 15:36:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	28984	5.00	ng	-0.02
7) Naphthalene-d8	10.55	136	159938	5.00	ng	-0.02
13) Acenaphthene-d10	14.39	164	104212	5.00	ng	-0.03
19) Phenanthrene-d10	17.14	188	276206	5.00	ng	-0.01
26) Chrysene-d12	21.29	240	302213	5.00	ng	-0.02
35) Perylene-d12	23.73	264	263835	5.00	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	58564	7.73	ng	0.00
5) Phenol-d6	6.95	99	100711	9.44	ng	0.00
8) Nitrobenzene-d5	8.93	82	50468	4.76	ng	-0.01
14) 2,4,6-Tribromophenol	15.88	330	37172	9.19	ng	-0.01
15) 2-Fluorobiphenyl	13.02	172	133225	4.52	ng	-0.01
29) Terphenyl-d14	19.74	244	203864	4.77	ng	-0.02

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.31	88	11431	3.61	ng	96
3) n-Nitrosodimethylamine	3.61	42	20229	4.37	ng	100
6) bis(2-Chloroethyl)ether	7.20	93	38803	4.53	ng	# 78
9) Nitrobenzene	8.97	77	52381	4.81	ng	92
10) Naphthalene	10.61	128	174758	4.94	ng	97
11) Hexachlorobutadiene	10.90	225	23803	4.54	ng	97
12) 2-Methylnaphthalene	12.21	142	113595	4.77	ng	99
16) Acenaphthylene	14.11	152	207374	4.46	ng	# 85
17) Acenaphthene	14.46	154	142640	5.10	ng	94
18) Fluorene	15.43	166	167384	4.62	ng	98
20) 4-Bromophenyl-phenylether	16.31	248	44168	4.28	ng	94
21) Hexachlorobenzene	16.45	284	43948	4.09	ng	98
22) Pentachlorophenol	16.78	266	46494	10.46	ng	# 85
23) Phenanthrene	17.17	178	676542	12.63	ng	99
24) Anthracene	17.26	178	323709	5.39	ng	96
25) Fluoranthene	19.19	202	1495892	20.38	ng	97
27) Benzidine	19.36	184	20213	1.09	ng	# 82
28) Pyrene	19.55	202	1341379	20.23	ng	# 95
30) Benzo(a)anthracene	21.27	228	1776730	24.37	ng	95
31) 3,3'-Dichlorobenzidine	21.22	252	56612	1.22	ng	# 77
32) Chrysene	21.27	228	1776524	28.21	ng	99
33) Bis(2-ethylhexyl)phthalate	21.20	149	164705	4.01	ng	# 83
34) Indeno(1,2,3-cd)pyrene	26.27	276	767594	10.27	ng	# 92
36) Benzo(b)fluoranthene	22.98	252	1762911	26.71	ng	97
37) Benzo(k)fluoranthene	22.98	252	1762911	26.09	ng	98
38) Benzo(a)pyrene	23.61	252	865202	13.73	ng	97
39) Dibenzo(a,h)anthracene	26.29	278	355939	5.79	ng	96
40) Benzo(g,h,i)perylene	27.06	276	718170	11.32	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.78 min Scan# 299

Delta R.T. -0.02 min

Lab File: BE091851.D

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SP-001-160517MSD

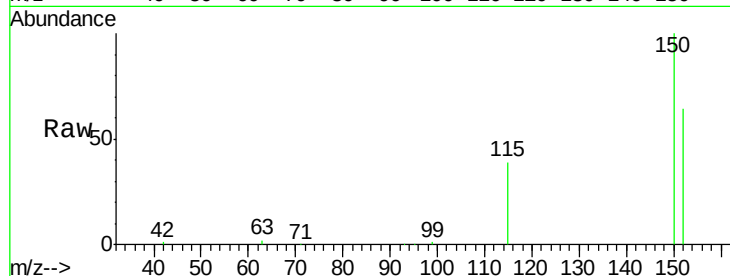
Tgt Ion: 152 Resp: 28984

Ion Ratio Lower Upper

152 100

150 155.3 122.6 183.8

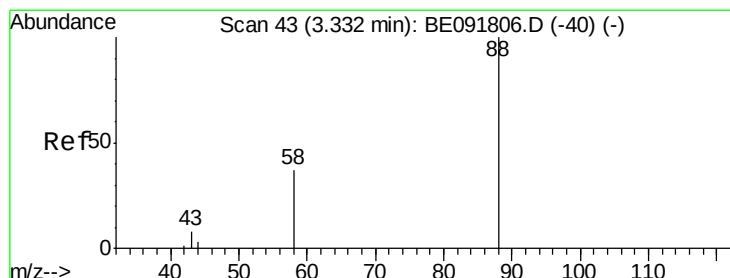
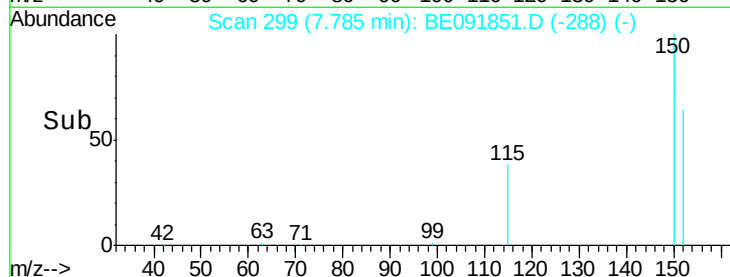
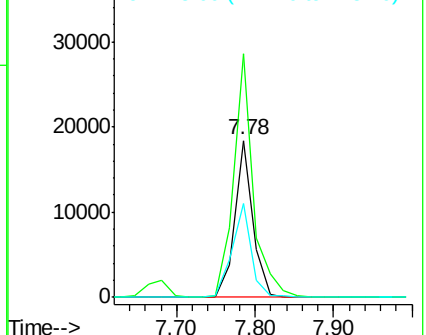
115 59.8 52.8 79.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 3.61 ng

RT: 3.31 min Scan# 42

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

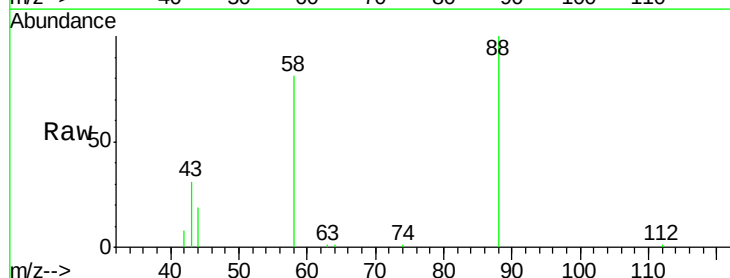
Tgt Ion: 88 Resp: 11431

Ion Ratio Lower Upper

88 100

58 80.6 65.8 98.6

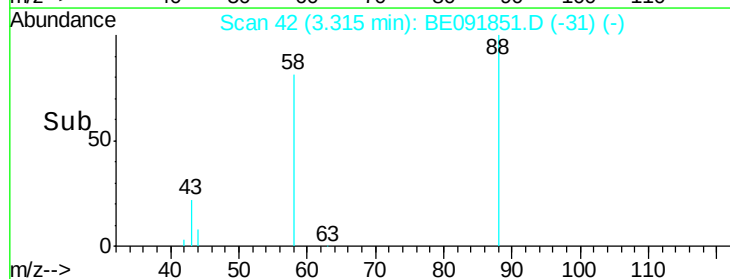
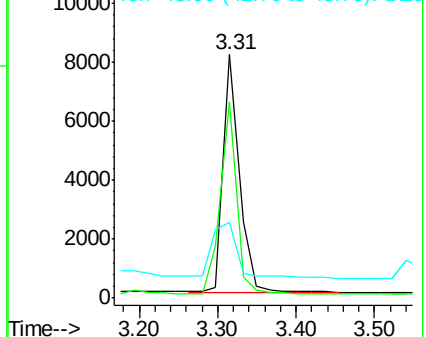
43 37.1 25.3 37.9

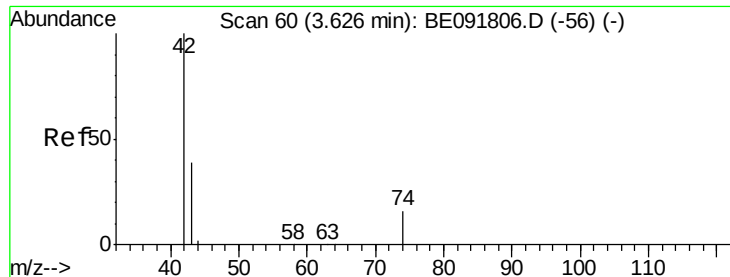


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.37 ng

RT: 3.61 min Scan# 59

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

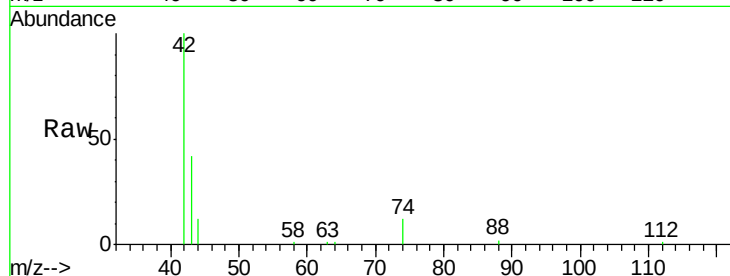
Tgt Ion: 42 Resp: 20229

Ion Ratio Lower Upper

42 100

74 109.7 87.9 131.9

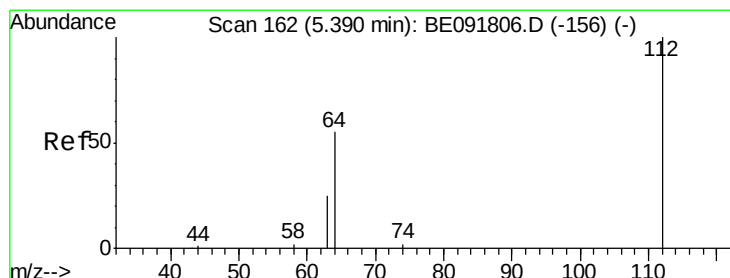
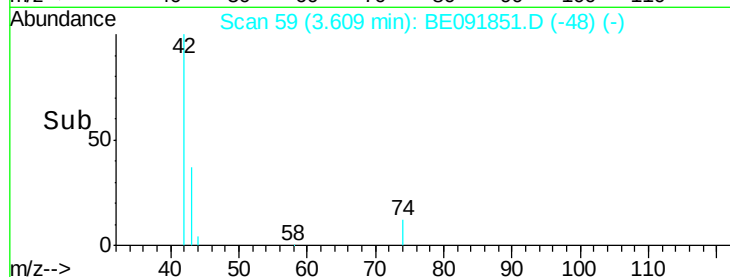
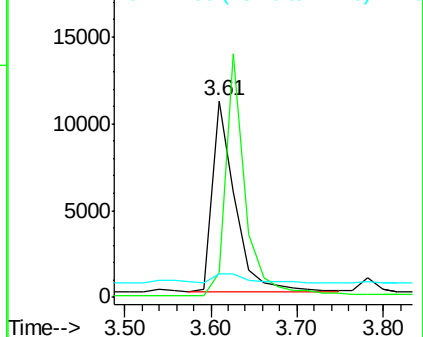
44 7.2 6.6 9.8



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 7.73 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

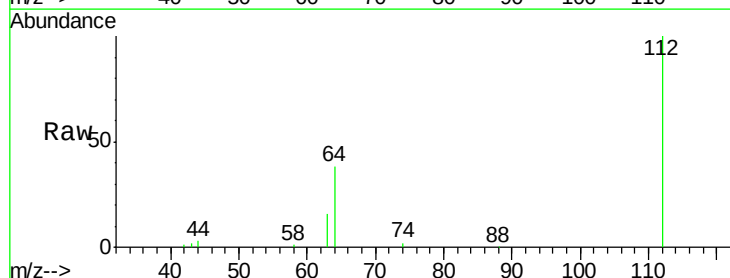
Tgt Ion: 112 Resp: 58564

Ion Ratio Lower Upper

112 100

64 67.8 30.9 46.3#

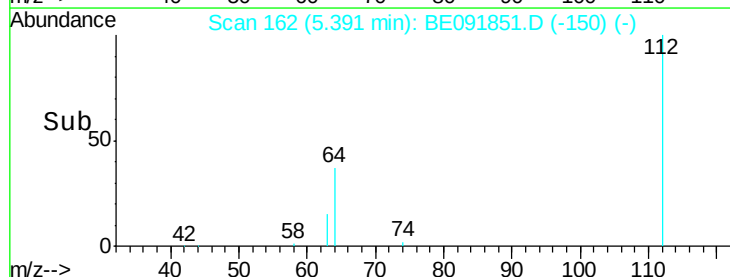
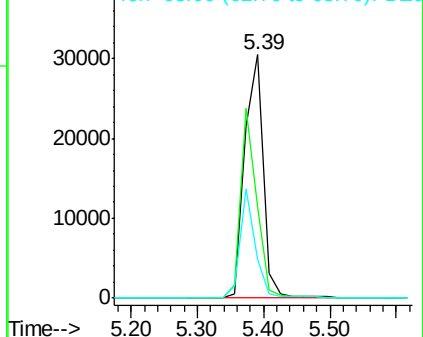
63 36.4 16.7 25.1#

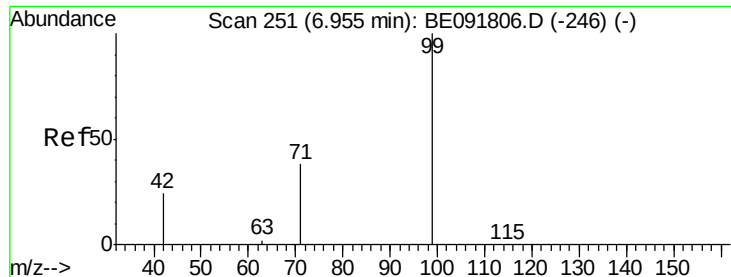


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 9.44 ng

RT: 6.95 min Scan# 251

Delta R.T. -0.00 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

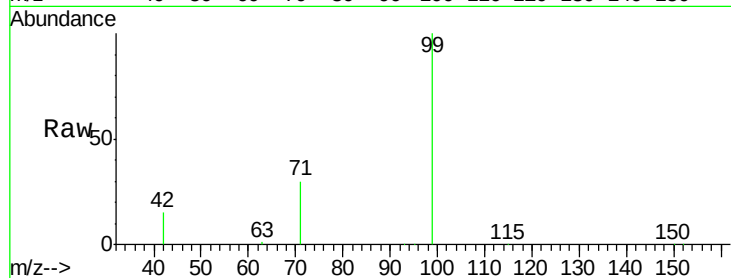
Tgt Ion: 99 Resp: 100711

Ion Ratio Lower Upper

99 100

42 23.2 16.2 24.2

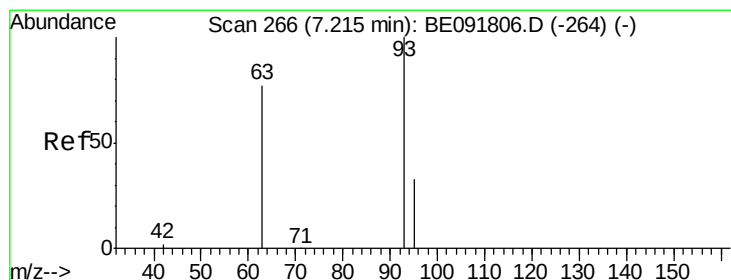
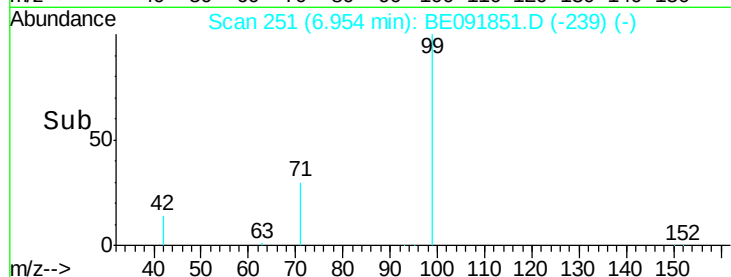
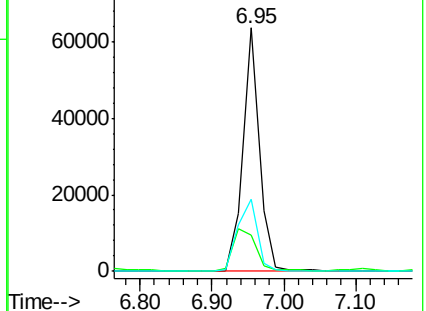
71 35.2 29.0 43.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 4.53 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

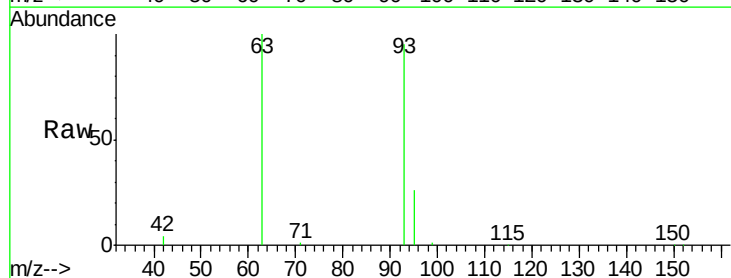
Tgt Ion: 93 Resp: 38803

Ion Ratio Lower Upper

93 100

63 83.4 49.5 74.3#

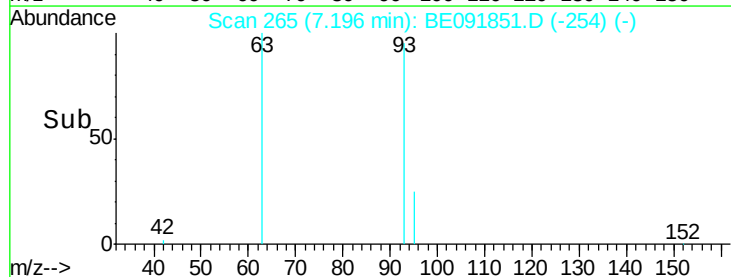
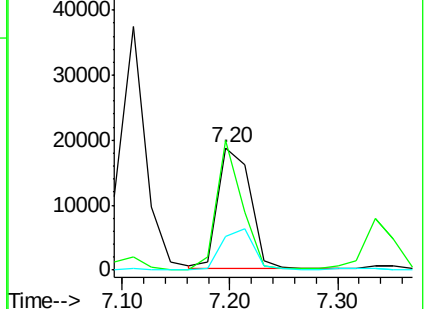
95 32.1 22.2 33.4

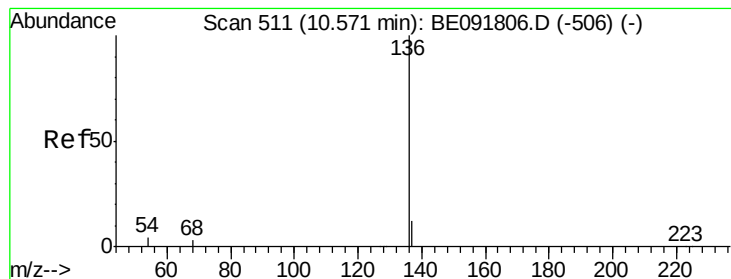


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 510

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

Tgt Ion: 136 Resp: 159938

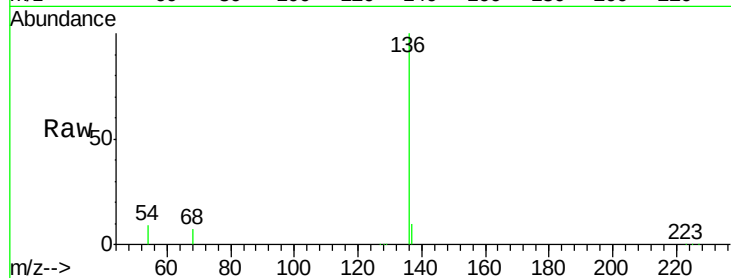
Ion Ratio Lower Upper

136 100

137 10.5 8.9 13.3

54 9.1 8.2 12.4

68 6.8 6.2 9.4

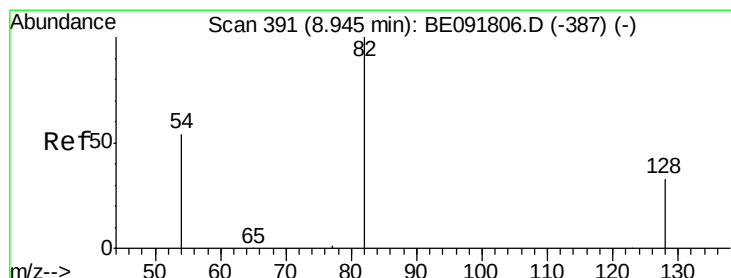
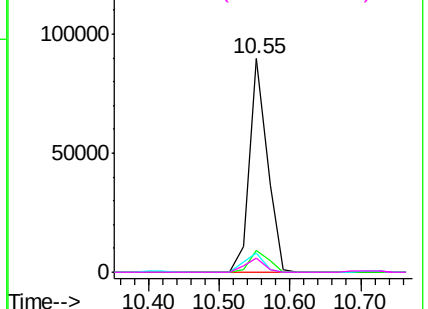
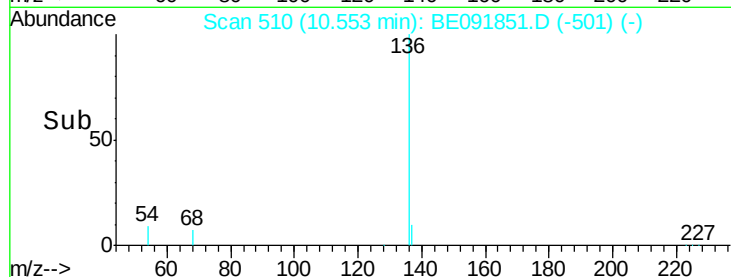


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.76 ng

RT: 8.93 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

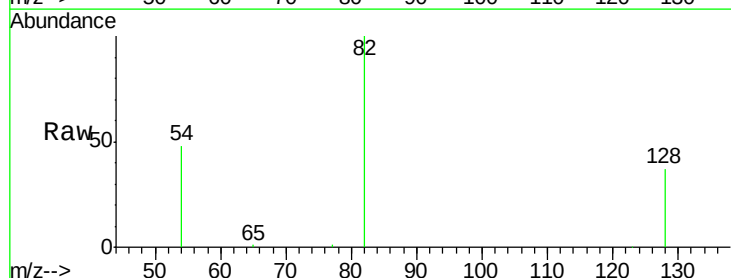
Tgt Ion: 82 Resp: 50468

Ion Ratio Lower Upper

82 100

128 36.7 25.4 38.0

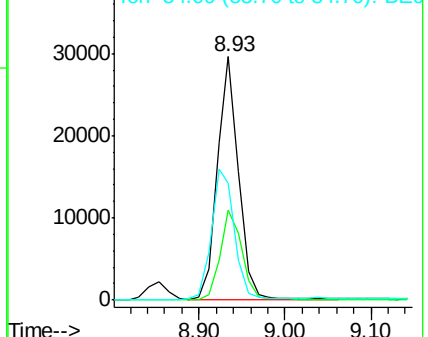
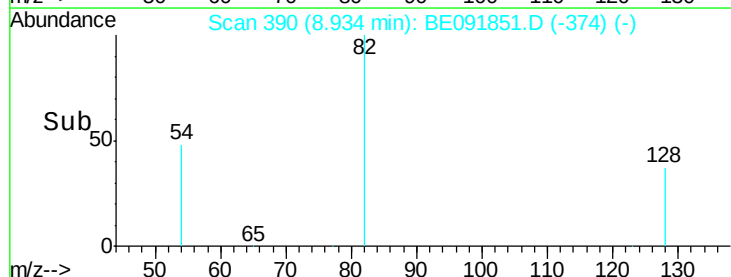
54 47.9 48.4 72.6#

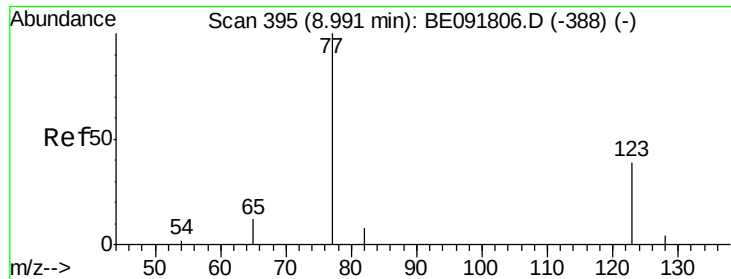


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 4.81 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

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SP-001-160517MSD

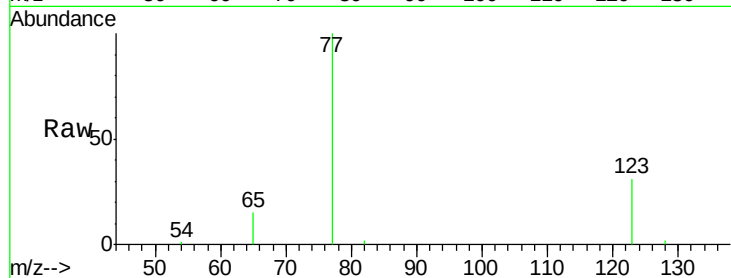
Tgt Ion: 77 Resp: 52381

Ion Ratio Lower Upper

77 100

123 38.6 26.9 40.3

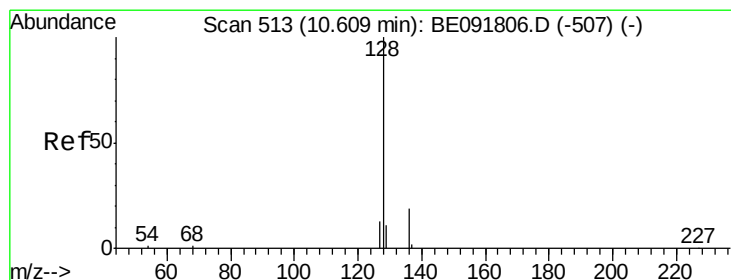
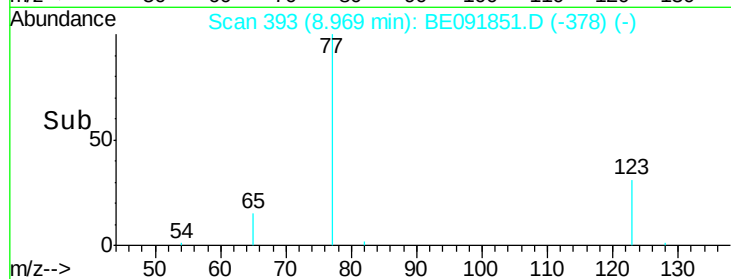
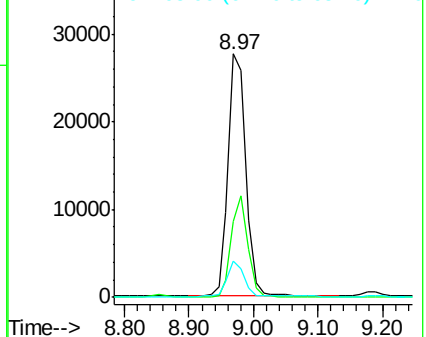
65 13.8 9.4 14.2



Abundance Ion 77.00 (76.70 to 77.70): BE091806.D (-388) (-)

Ion 123.00 (122.70 to 123.70): BE091806.D (-388) (-)

Ion 65.00 (64.70 to 65.70): BE091806.D (-388) (-)



#10

Naphthalene

Concen: 4.94 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

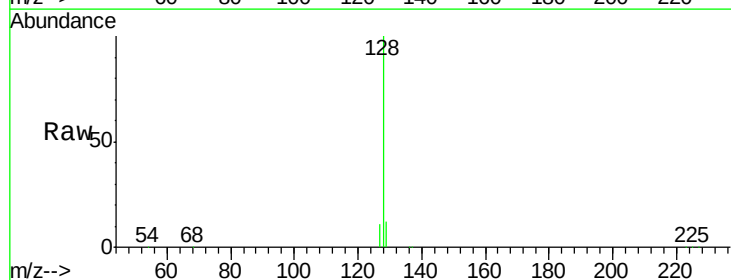
Tgt Ion: 128 Resp: 174758

Ion Ratio Lower Upper

128 100

129 12.0 9.3 13.9

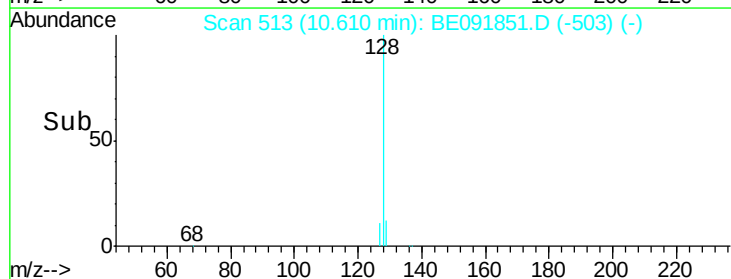
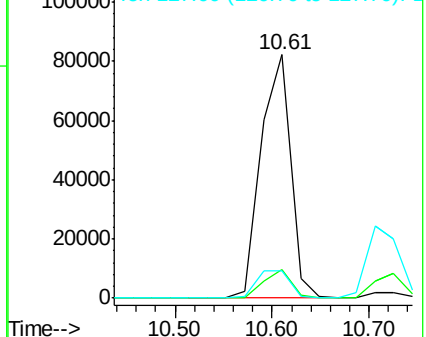
127 11.4 10.7 16.1

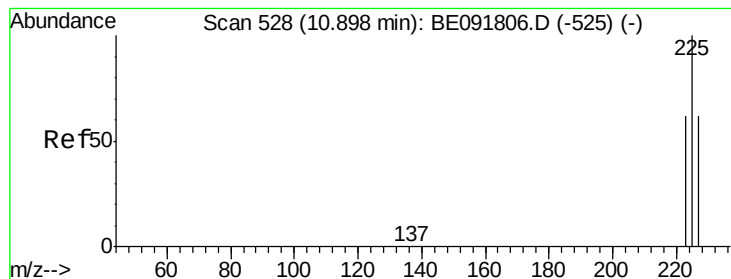


Abundance Ion 128.00 (127.70 to 128.70): BE091806.D (-507) (-)

Ion 129.00 (128.70 to 129.70): BE091806.D (-507) (-)

Ion 127.00 (126.70 to 127.70): BE091806.D (-507) (-)





#11

Hexachlorobutadiene

Concen: 4.54 ng

RT: 10.90 min Scan# 528

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

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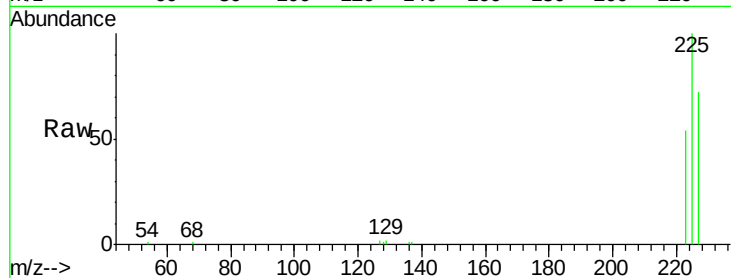
Tgt Ion: 225 Resp: 23803

Ion Ratio Lower Upper

225 100

223 64.0 49.0 73.6

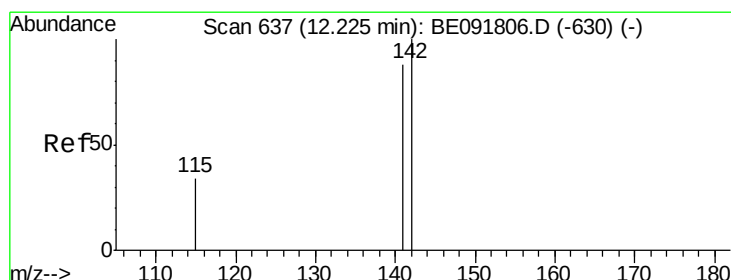
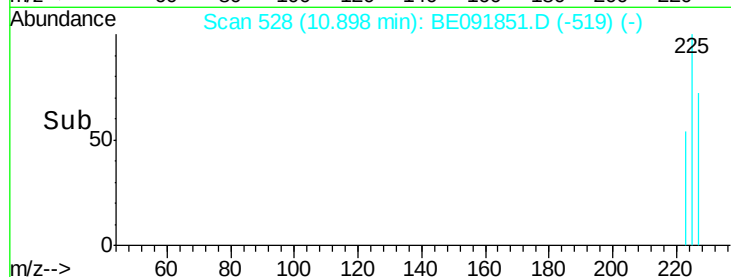
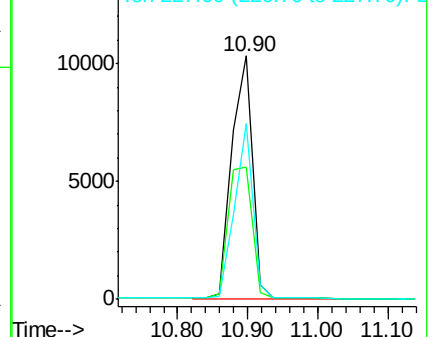
227 64.9 50.3 75.5



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 4.77 ng

RT: 12.21 min Scan# 636

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

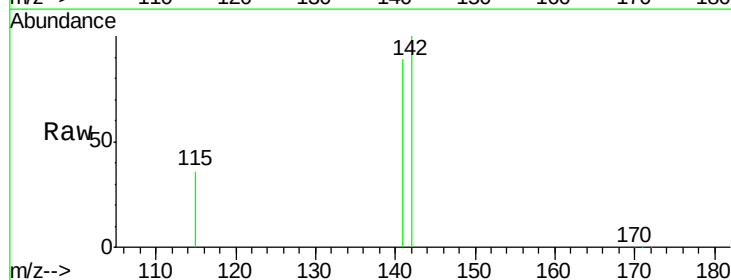
Tgt Ion: 142 Resp: 113595

Ion Ratio Lower Upper

142 100

141 89.5 71.4 107.0

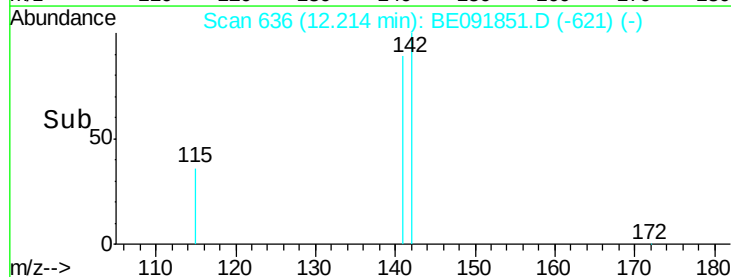
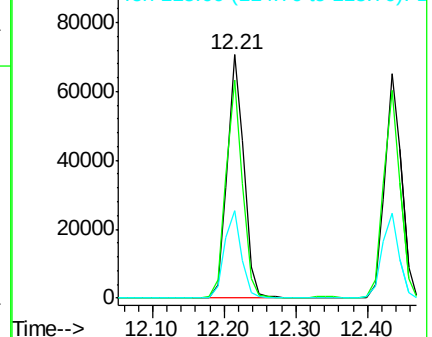
115 35.7 30.3 45.5

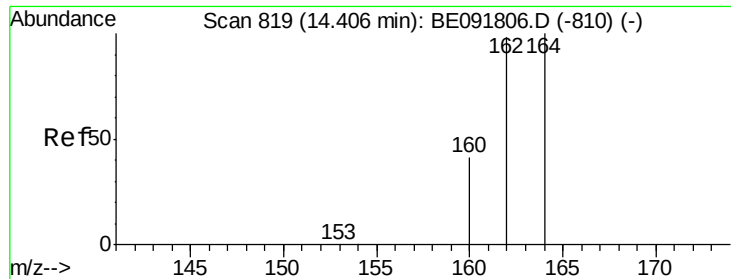


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.39 min Scan# 818

Delta R.T. -0.03 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

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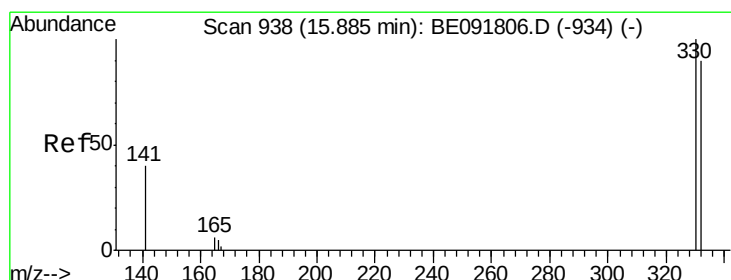
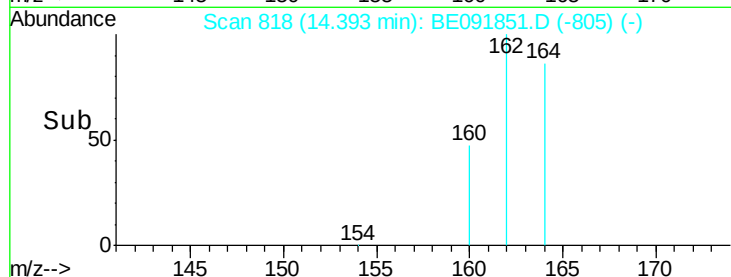
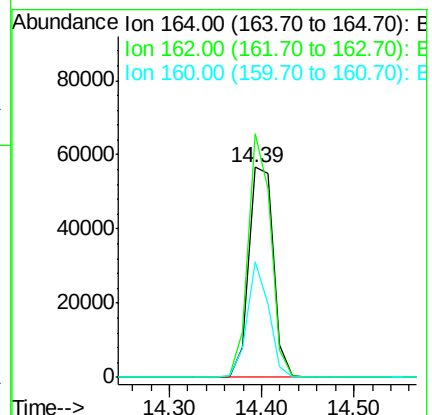
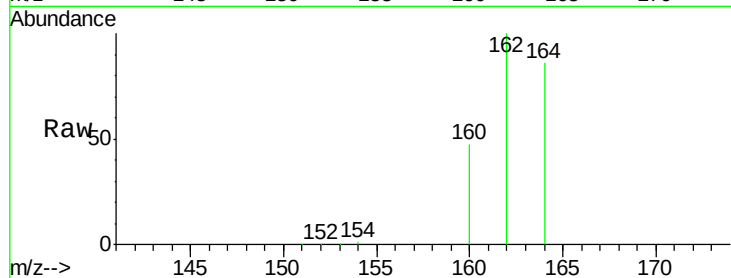
Tgt Ion:164 Resp: 104212

Ion Ratio Lower Upper

164 100

162 115.9 85.3 127.9

160 55.1 46.2 69.2



#14

2,4,6-Tribromophenol

Concen: 9.19 ng

RT: 15.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

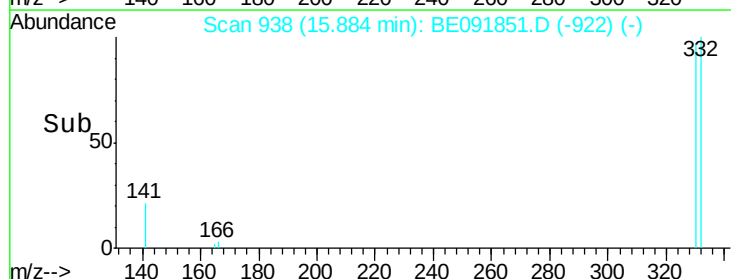
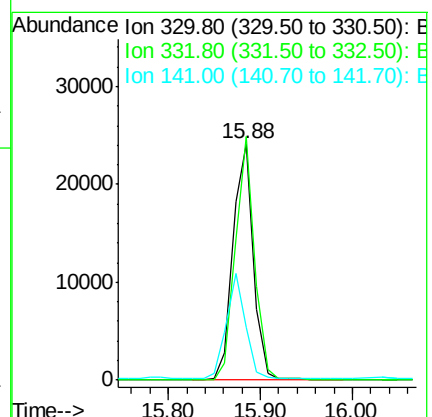
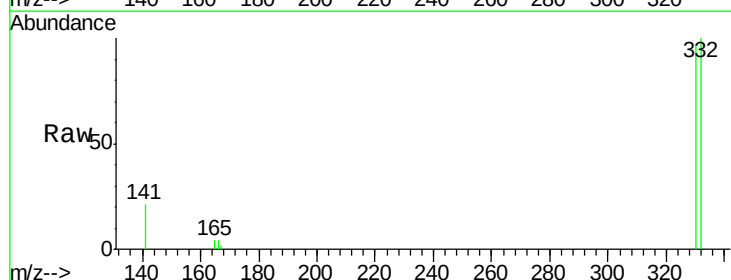
Tgt Ion:330 Resp: 37172

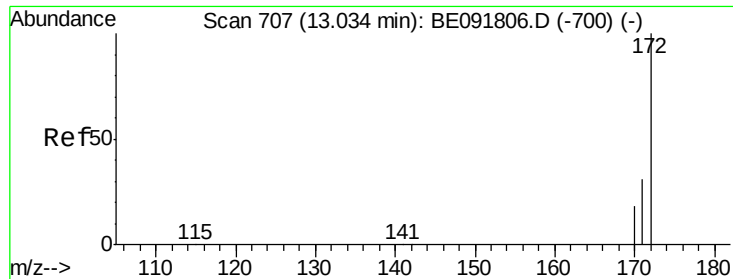
Ion Ratio Lower Upper

330 100

332 97.2 79.1 118.7

141 41.3 125.4 188.0#

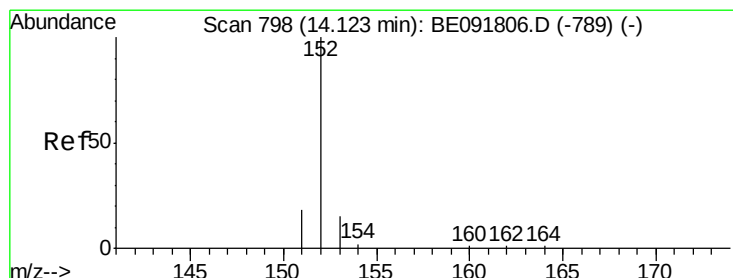
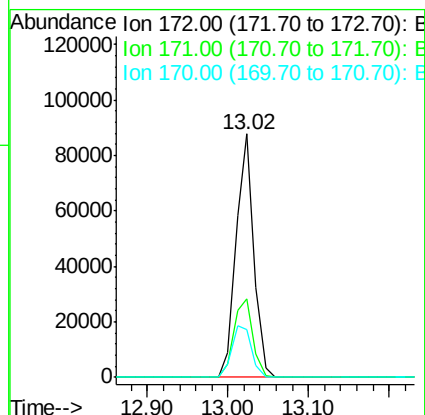
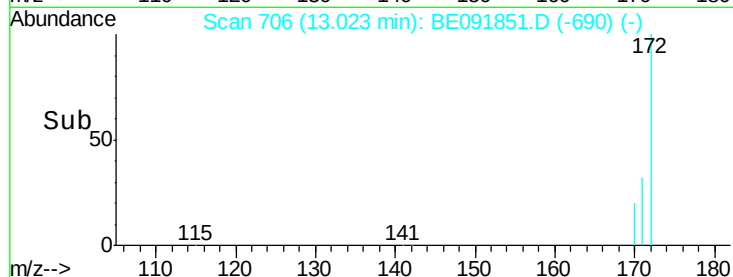
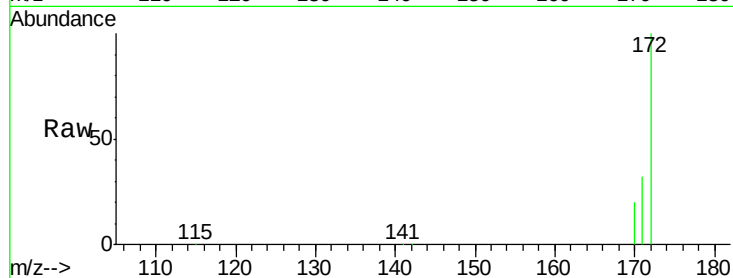




#15
2-Fluorobiphenyl
Concen: 4.52 ng
RT: 13.02 min Scan# 706
Delta R.T. -0.01 min
Lab File: BE091851.D
Acq: 23 May 2016 17:30

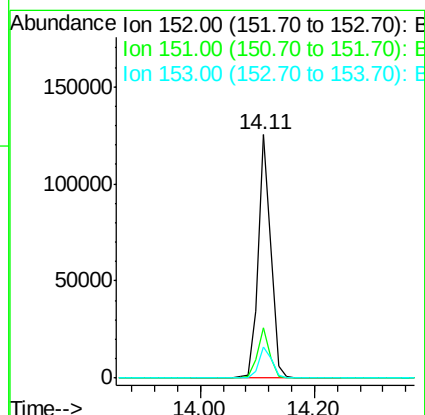
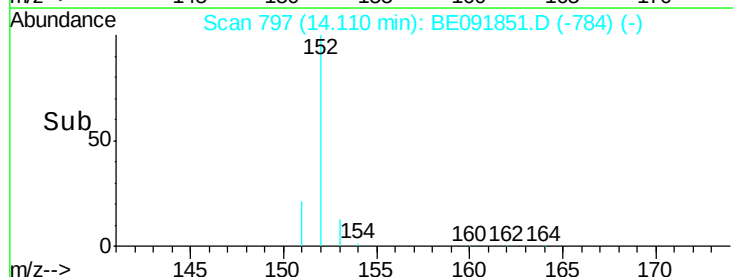
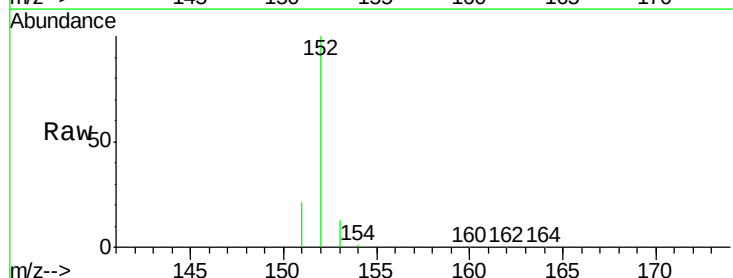
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

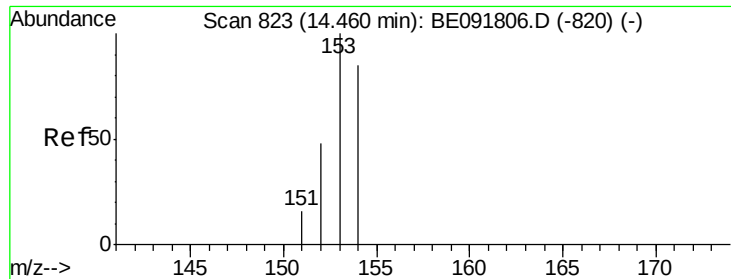
Tgt Ion:172 Resp: 133225
Ion Ratio Lower Upper
172 100
171 32.1 28.8 43.2
170 19.7 19.3 28.9



#16
Acenaphthylene
Concen: 4.46 ng
RT: 14.11 min Scan# 797
Delta R.T. -0.01 min
Lab File: BE091851.D
Acq: 23 May 2016 17:30

Tgt Ion:152 Resp: 207374
Ion Ratio Lower Upper
152 100
151 20.7 3.9 5.9#
153 13.8 10.3 15.5





#17

Acenaphthene

Concen: 5.10 ng

RT: 14.46 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

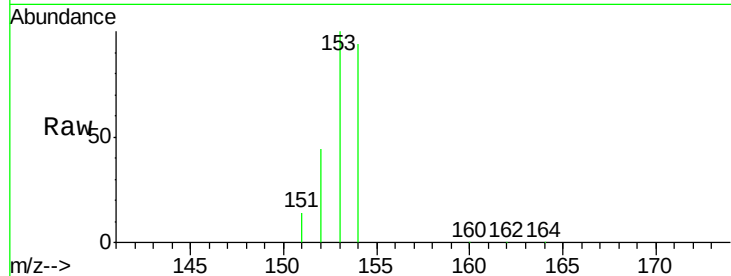
Tgt Ion:154 Resp: 142640

Ion Ratio Lower Upper

154 100

153 107.2 80.0 120.0

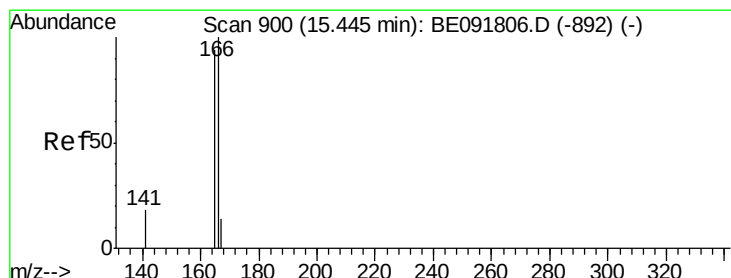
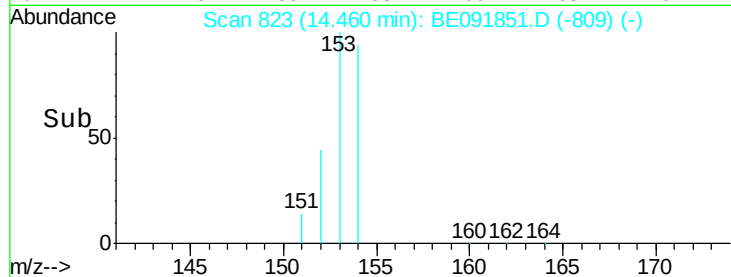
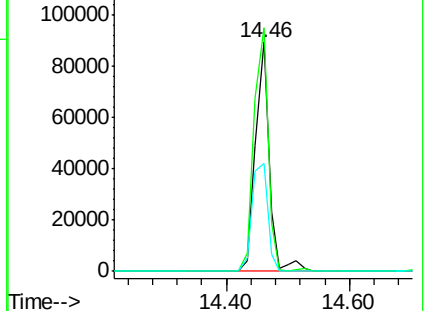
152 52.6 40.0 60.0



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



#18

Fluorene

Concen: 4.62 ng

RT: 15.43 min Scan# 899

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

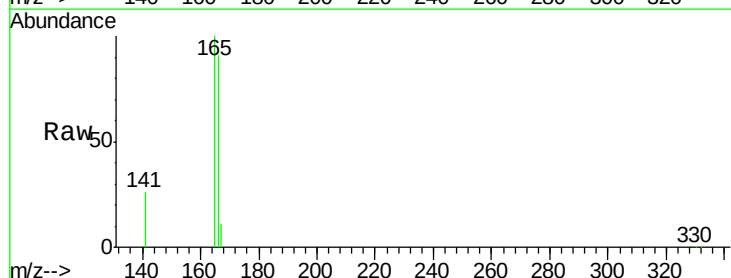
Tgt Ion:166 Resp: 167384

Ion Ratio Lower Upper

166 100

165 98.6 80.8 121.2

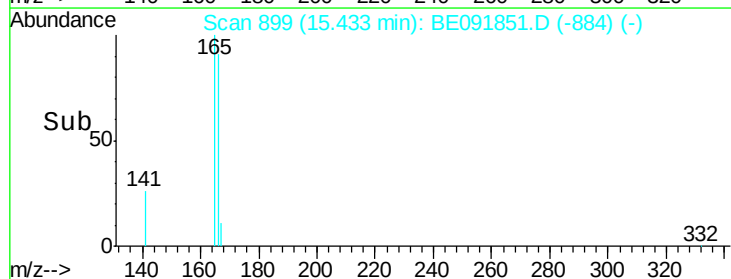
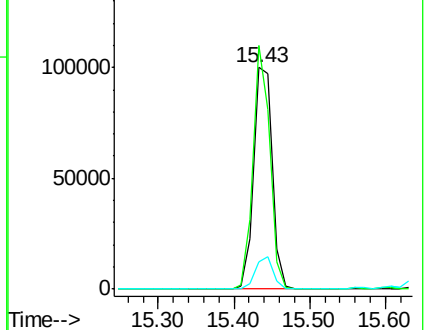
167 13.6 10.9 16.3

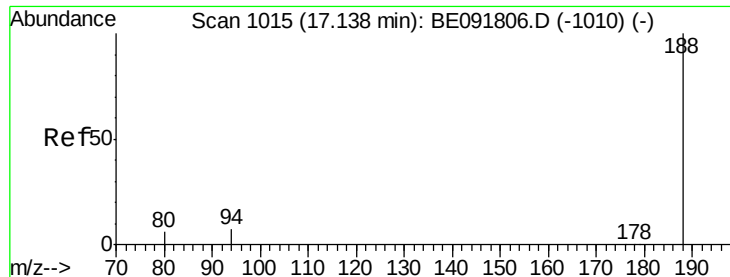


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

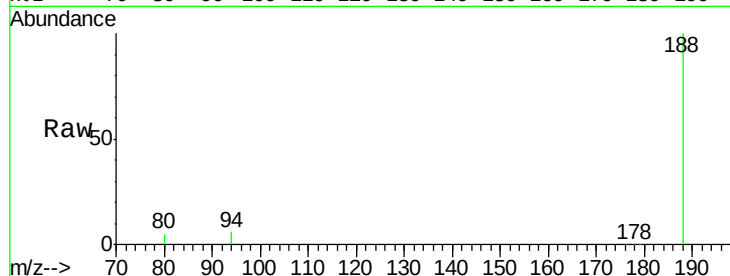
Tgt Ion:188 Resp: 276206

Ion Ratio Lower Upper

188 100

94 6.1 8.7 13.1#

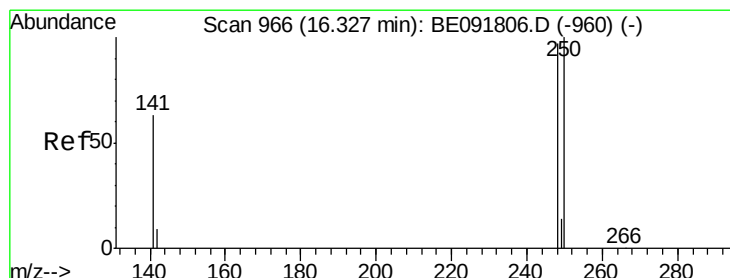
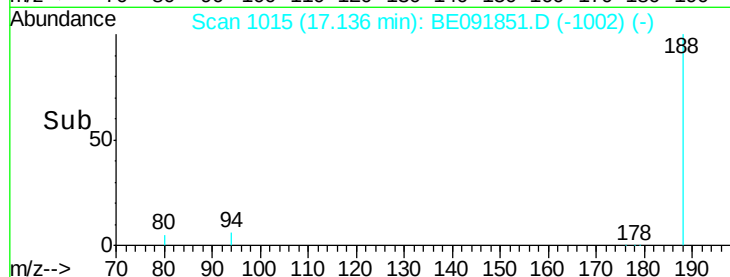
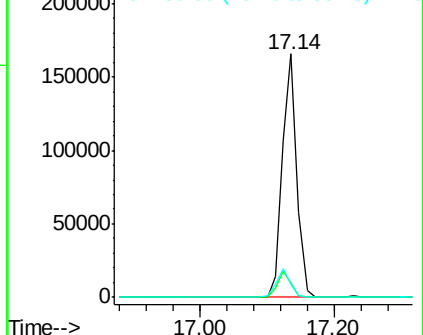
80 5.3 9.4 14.0#



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



#20

4-Bromophenyl-phenylether

Concen: 4.28 ng

RT: 16.31 min Scan# 965

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

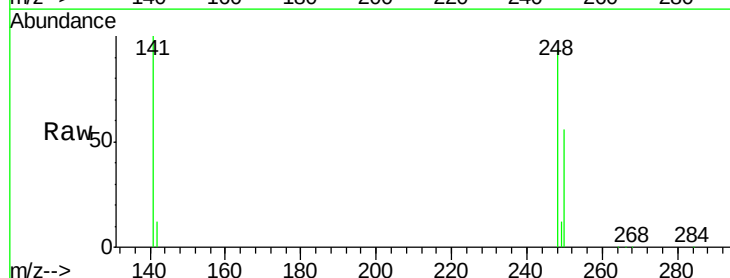
Tgt Ion:248 Resp: 44168

Ion Ratio Lower Upper

248 100

250 100.2 80.5 120.7

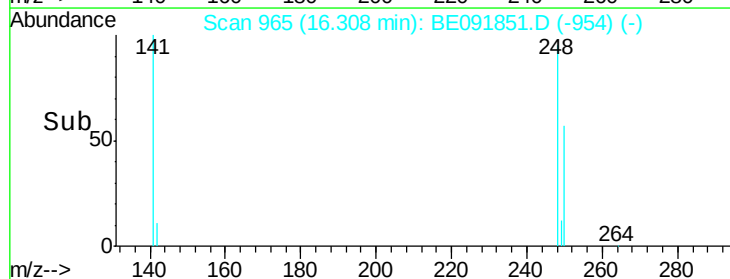
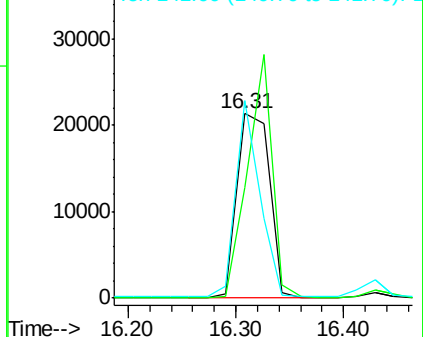
141 77.9 72.0 108.0

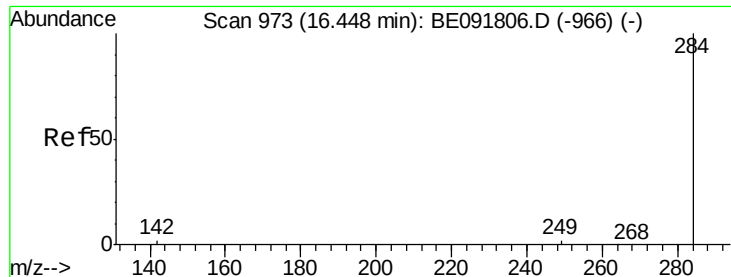


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

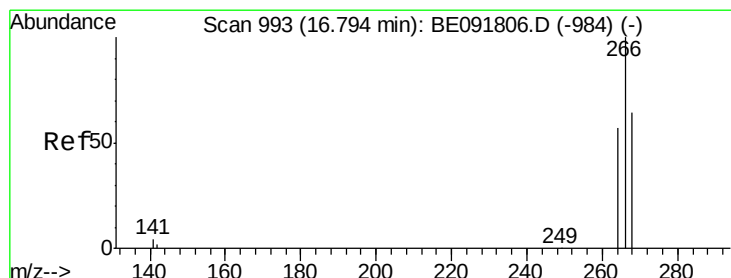
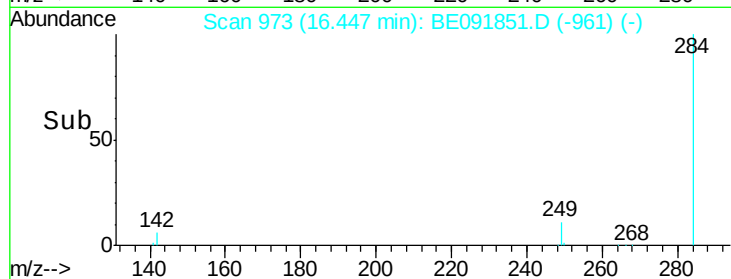
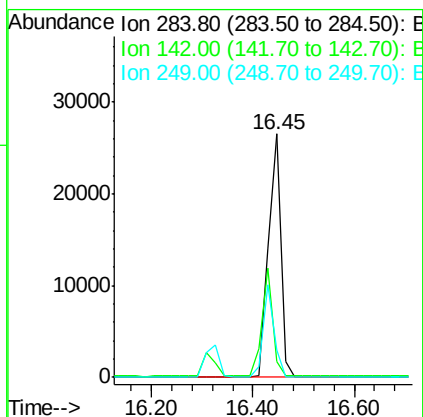
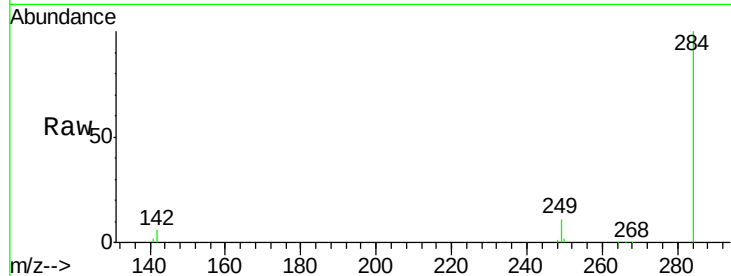




#21
Hexachlorobenzene
Concen: 4.09 ng
RT: 16.45 min Scan# 973
Delta R.T. -0.00 min
Lab File: BE091851.D
Acq: 23 May 2016 17:30

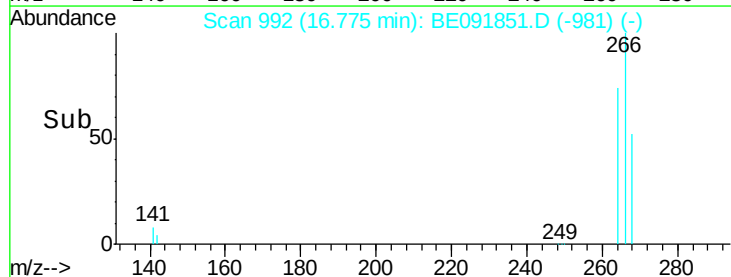
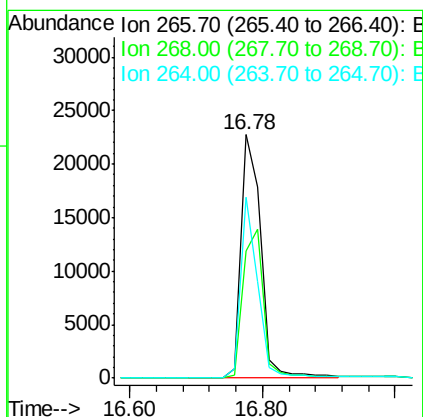
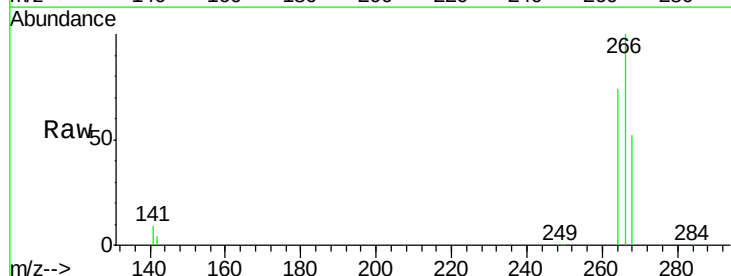
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MSD

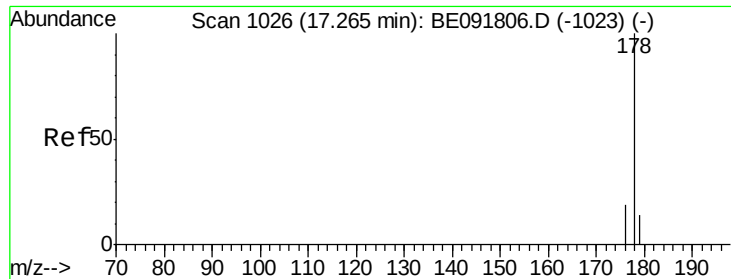
Tgt Ion: 284 Resp: 43948
Ion Ratio Lower Upper
284 100
142 38.7 32.2 48.2
249 33.1 25.4 38.2



#22
Pentachlorophenol
Concen: 10.46 ng
RT: 16.78 min Scan# 992
Delta R.T. -0.02 min
Lab File: BE091851.D
Acq: 23 May 2016 17:30

Tgt Ion: 266 Resp: 46494
Ion Ratio Lower Upper
266 100
268 52.1 58.2 87.2#
264 74.1 56.2 84.4





#23

Phenanthrene

Concen: 12.63 ng

RT: 17.17 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

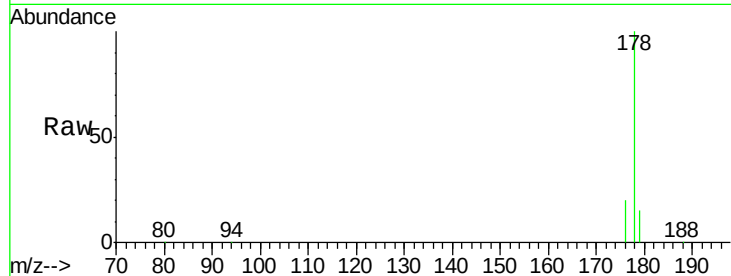
Tgt Ion:178 Resp: 676542

Ion Ratio Lower Upper

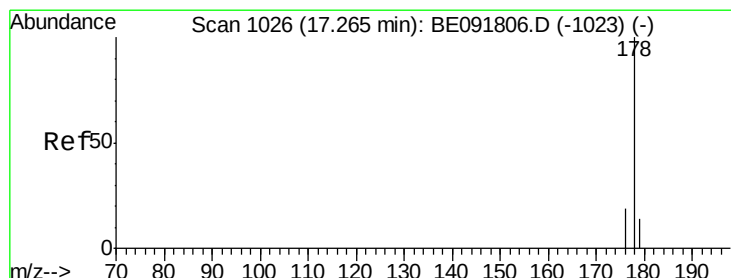
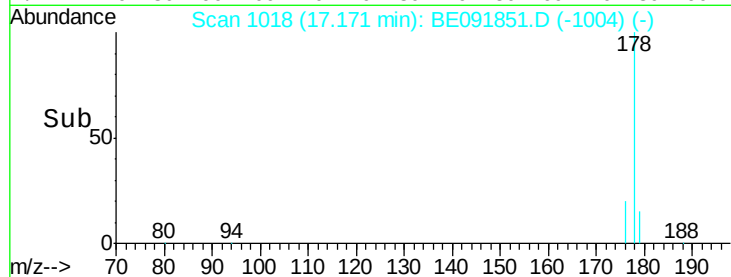
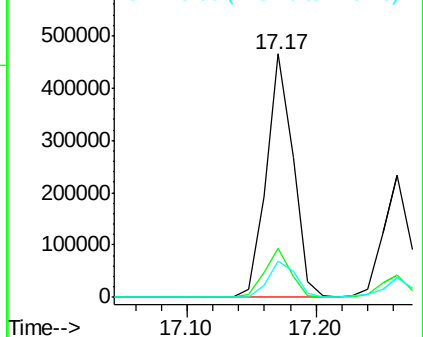
178 100

176 19.7 15.3 22.9

179 15.7 12.6 18.8



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



#24

Anthracene

Concen: 5.39 ng

RT: 17.26 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

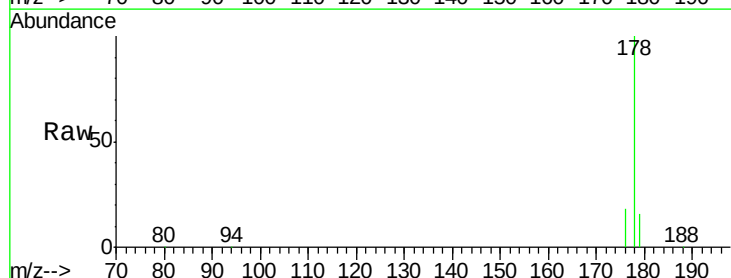
Tgt Ion:178 Resp: 323709

Ion Ratio Lower Upper

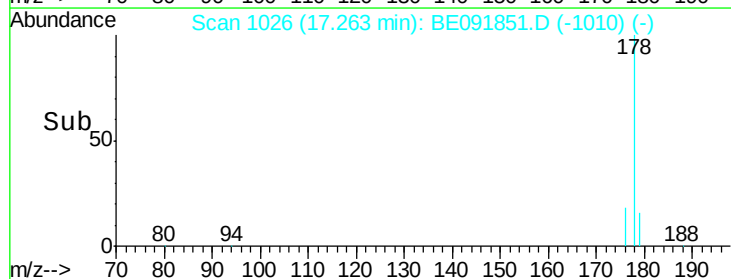
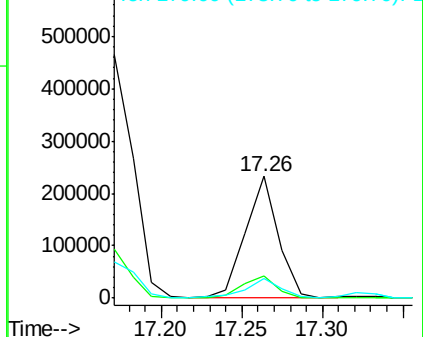
178 100

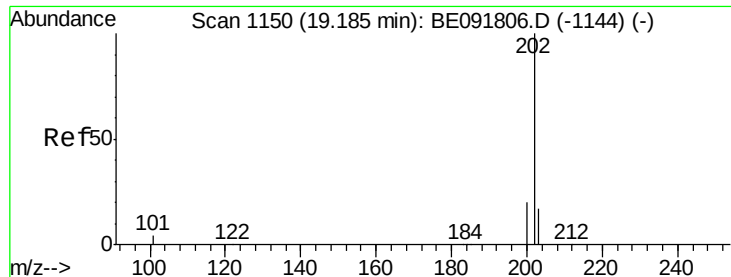
176 19.1 14.6 21.8

179 17.3 11.8 17.6



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





#25

Fluoranthene

Concen: 20.38 ng

RT: 19.19 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

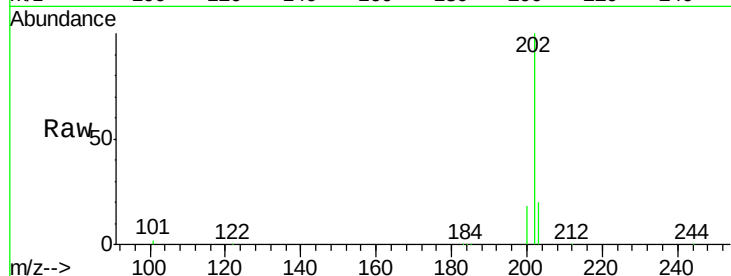
Tgt Ion:202 Resp: 1495892

Ion Ratio Lower Upper

202 100

101 11.5 11.0 16.6

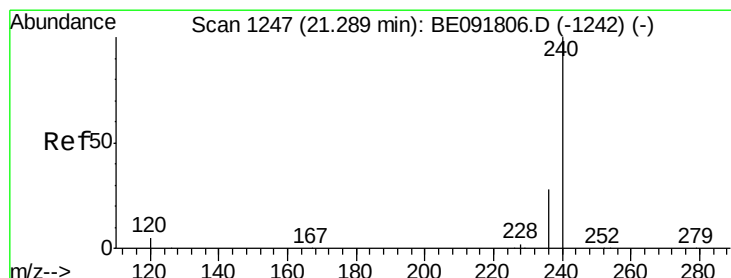
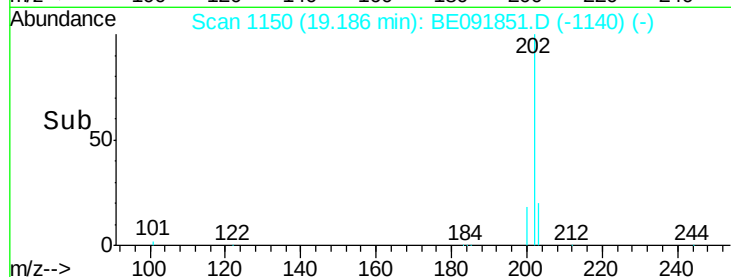
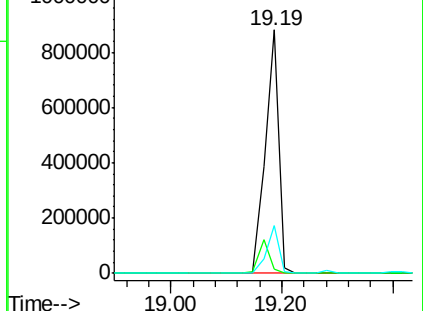
203 18.0 13.9 20.9



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

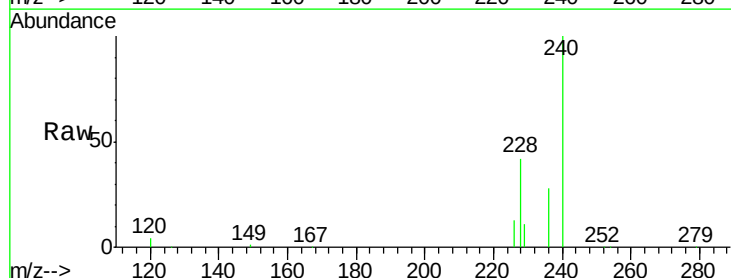
Tgt Ion:240 Resp: 302213

Ion Ratio Lower Upper

240 100

120 3.5 11.0 16.4#

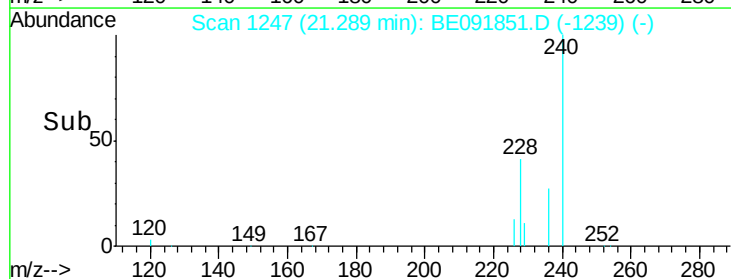
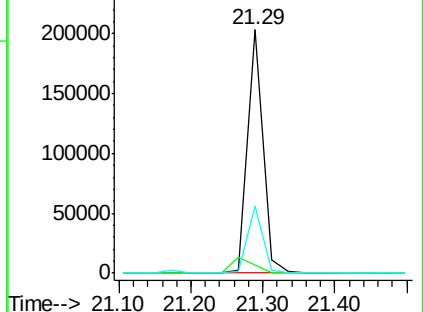
236 27.7 21.7 32.5

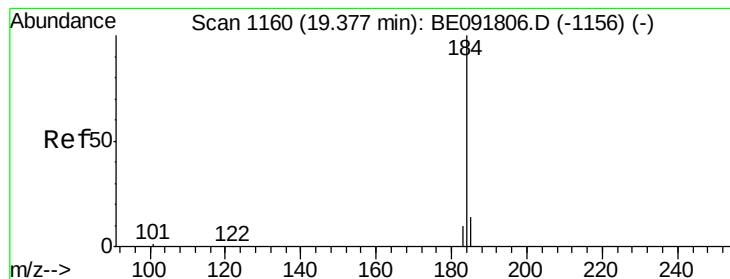


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 1.09 ng

RT: 19.36 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

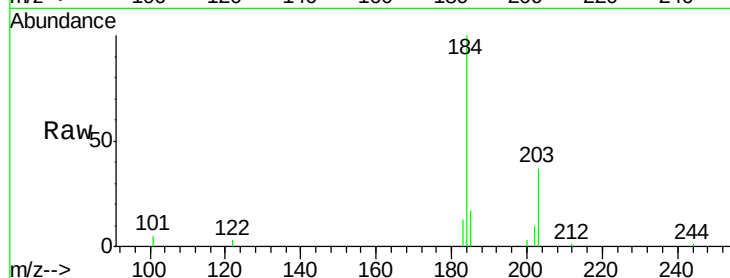
Tgt Ion:184 Resp: 20213

Ion Ratio Lower Upper

184 100

185 17.1 22.3 33.5#

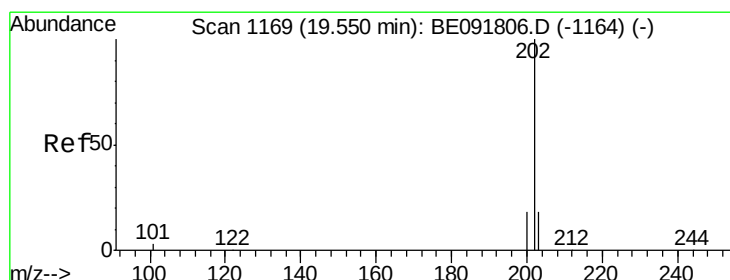
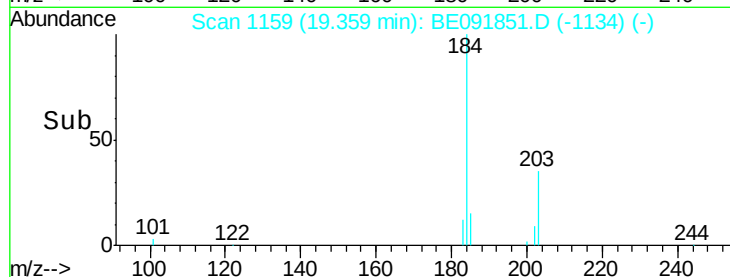
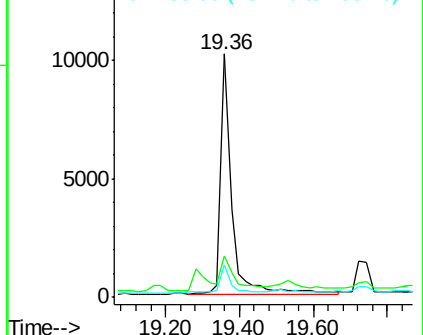
183 13.4 16.4 24.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 20.23 ng

RT: 19.55 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

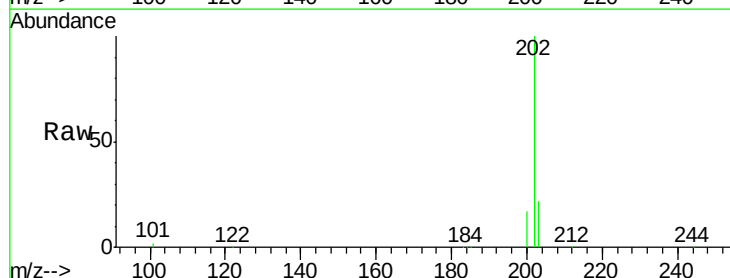
Tgt Ion:202 Resp: 1341379

Ion Ratio Lower Upper

202 100

200 21.9 16.8 25.2

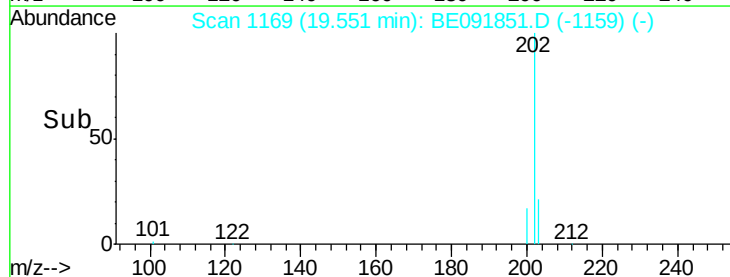
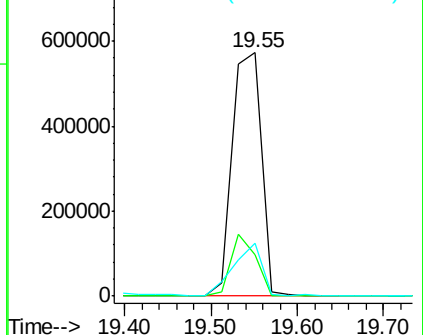
203 21.6 14.0 21.0#

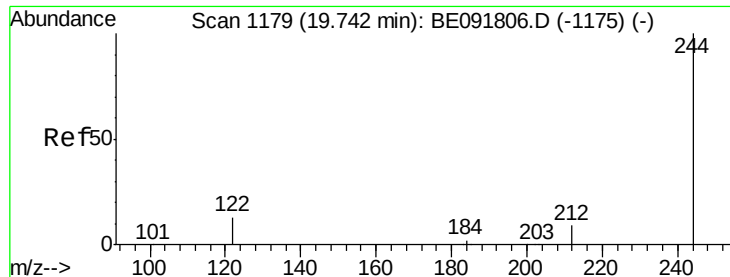


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 4.77 ng

RT: 19.74 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

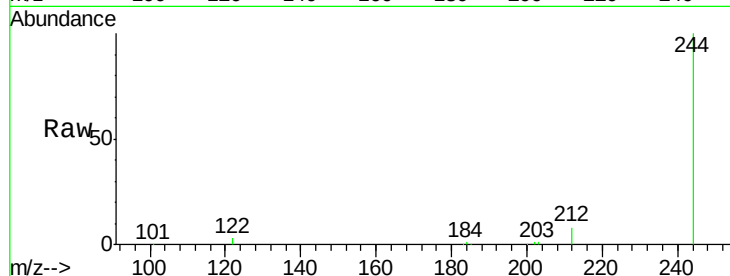
Tgt Ion:244 Resp: 203864

Ion Ratio Lower Upper

244 100

212 8.2 6.9 10.3

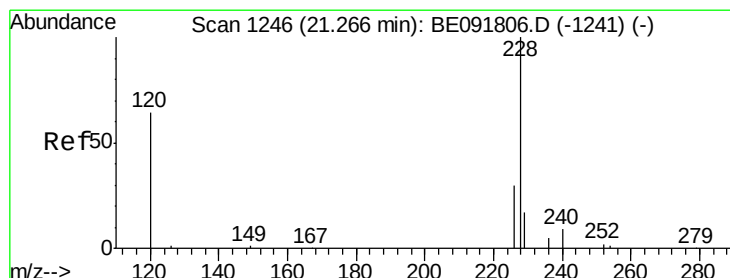
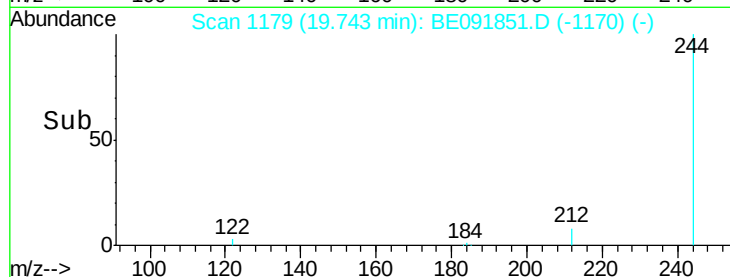
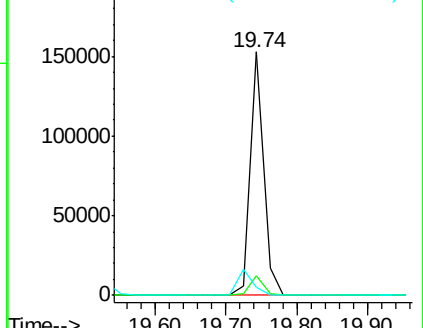
122 3.4 11.0 16.4#



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



#30

Benzo(a)anthracene

Concen: 24.37 ng

RT: 21.27 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

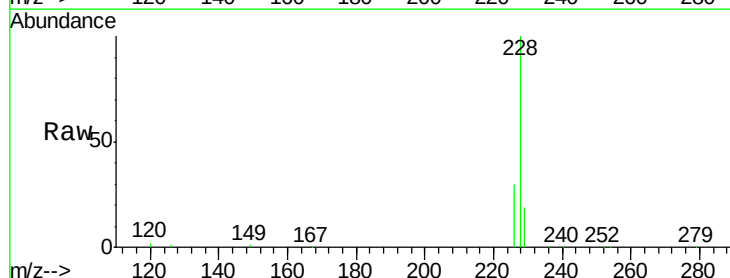
Tgt Ion:228 Resp: 1776730

Ion Ratio Lower Upper

228 100

226 29.9 21.0 31.4

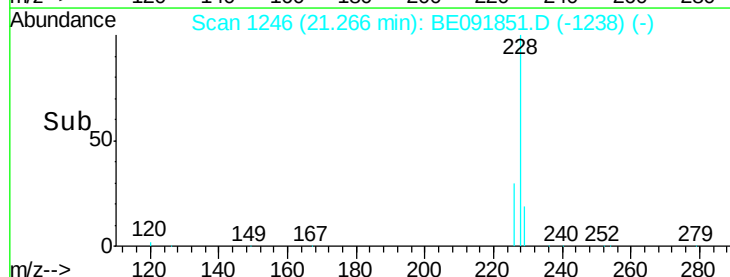
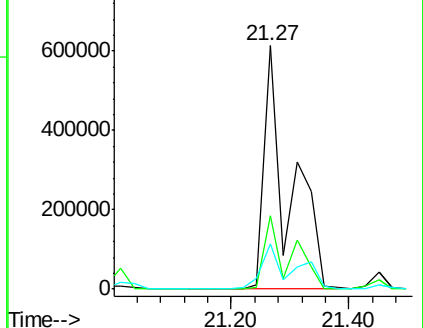
229 18.8 15.7 23.5

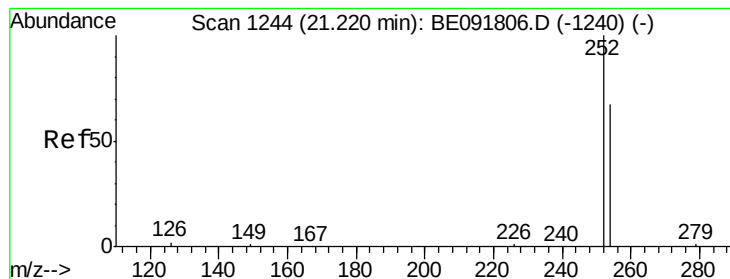


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

3,3'-Dichlorobenzidine

Concen: 1.22 ng

RT: 21.22 min Scan# 1244

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

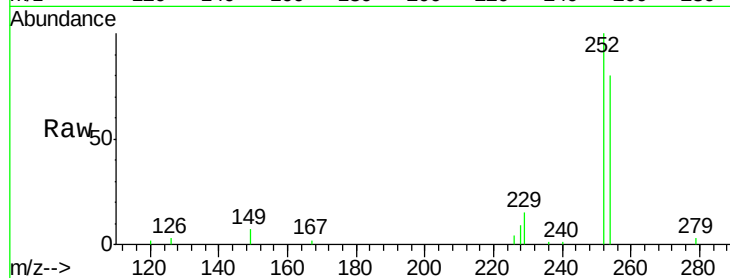
Tgt Ion:252 Resp: 56612

Ion Ratio Lower Upper

252 100

254 80.0 51.1 76.7#

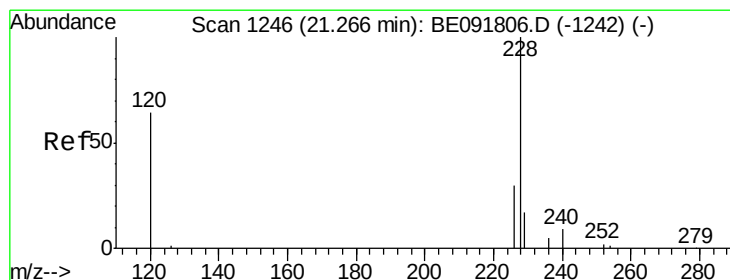
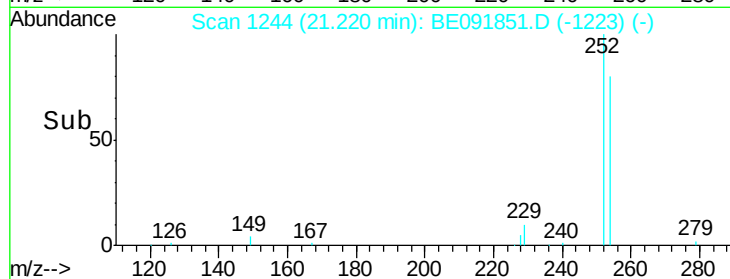
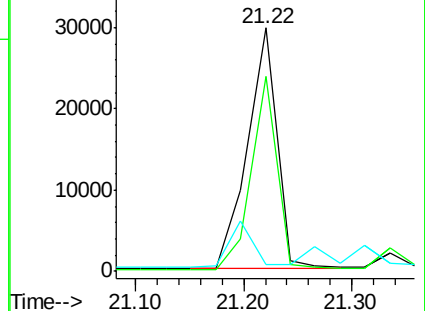
126 2.6 12.6 18.8#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#32

Chrysene

Concen: 28.21 ng

RT: 21.27 min Scan# 1246

Delta R.T. -0.07 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

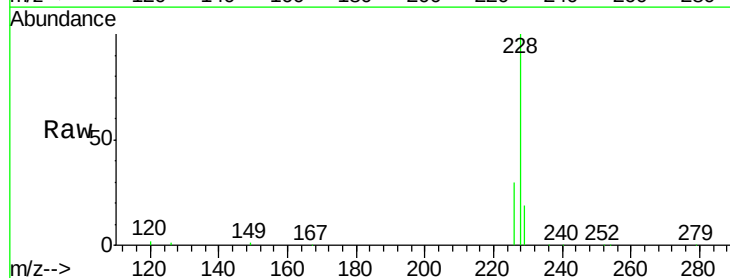
Tgt Ion:228 Resp: 1776524

Ion Ratio Lower Upper

228 100

226 29.9 24.0 36.0

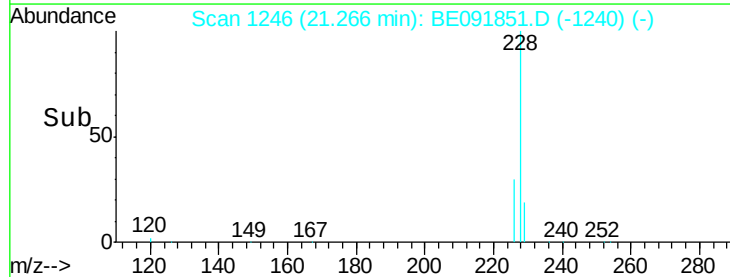
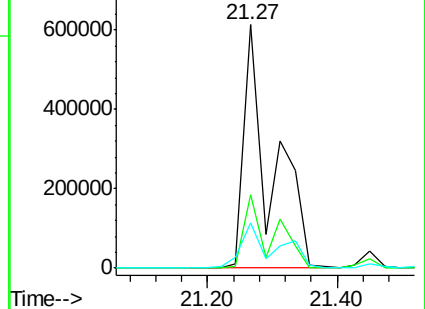
229 18.8 15.9 23.9

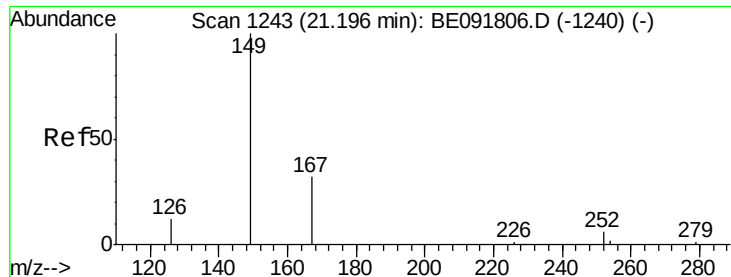


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

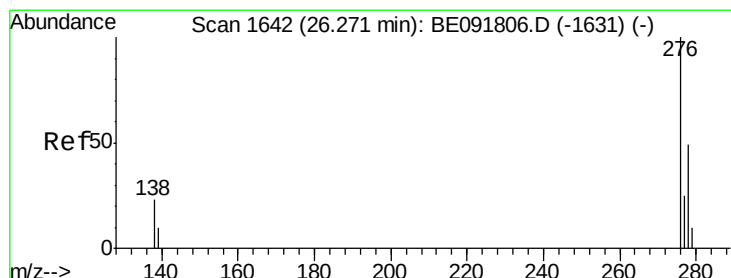
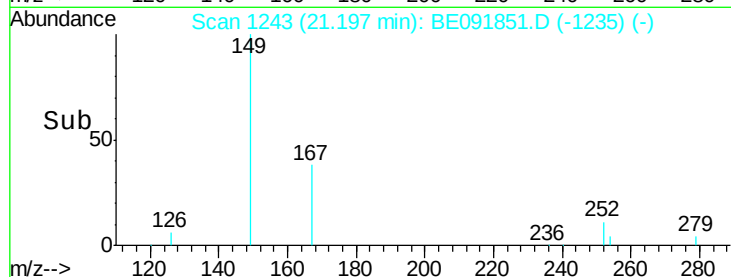
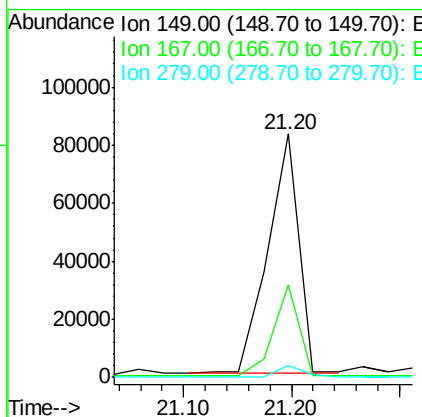
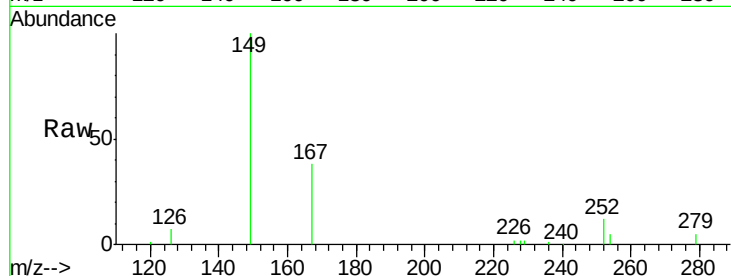




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 4.01 ng
 RT: 21.20 min Scan# 1243
 Delta R.T. -0.02 min
 Lab File: BE091851.D
 Acq: 23 May 2016 17:30

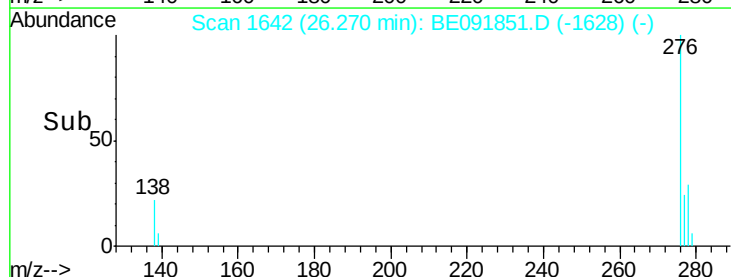
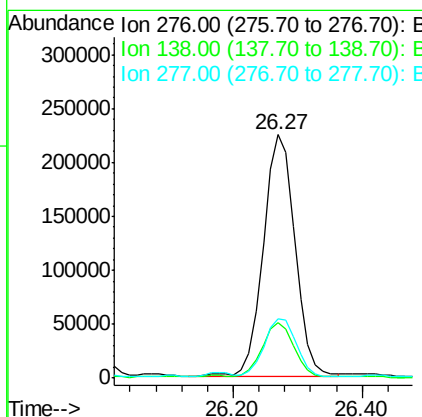
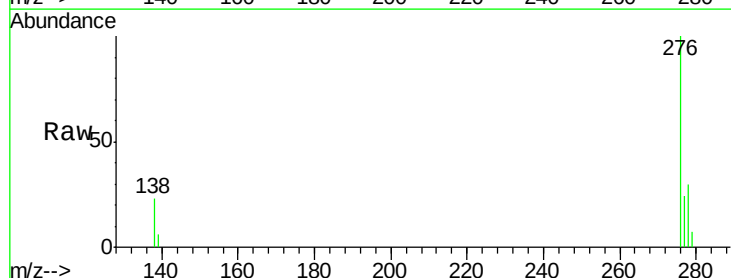
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MSD

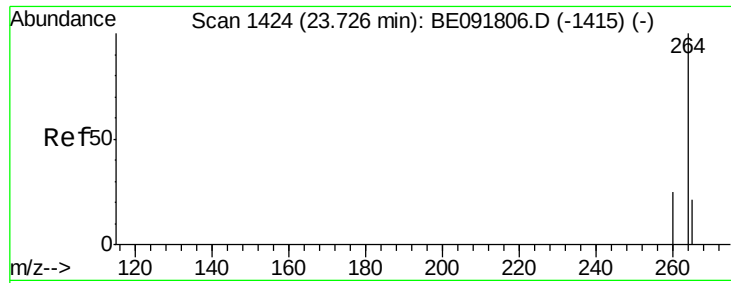
Tgt Ion:149 Resp: 164705
 Ion Ratio Lower Upper
 149 100
 167 31.1 19.5 29.3#
 279 3.7 10.0 15.0#



#34
 Indeno(1,2,3-cd)pyrene
 Concen: 10.27 ng
 RT: 26.27 min Scan# 1642
 Delta R.T. -0.04 min
 Lab File: BE091851.D
 Acq: 23 May 2016 17:30

Tgt Ion:276 Resp: 767594
 Ion Ratio Lower Upper
 276 100
 138 22.2 23.4 35.2#
 277 24.0 19.8 29.8

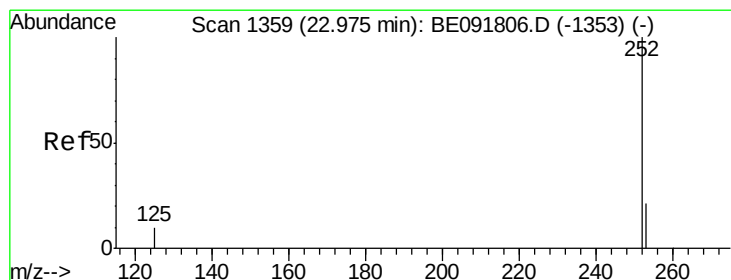
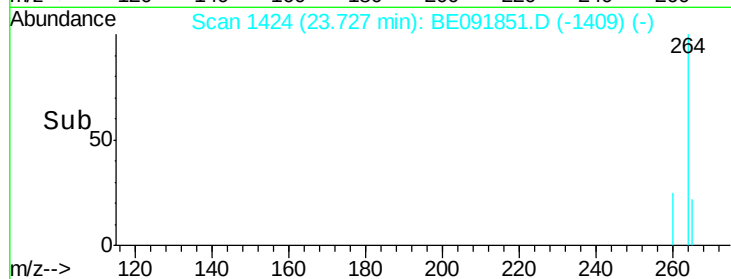
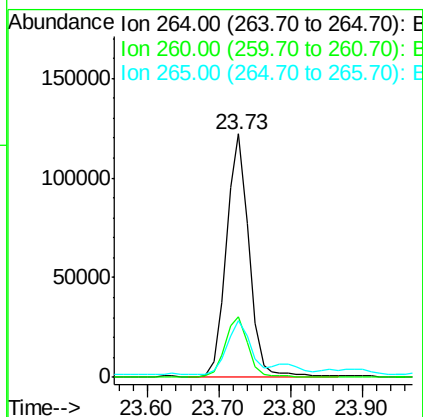
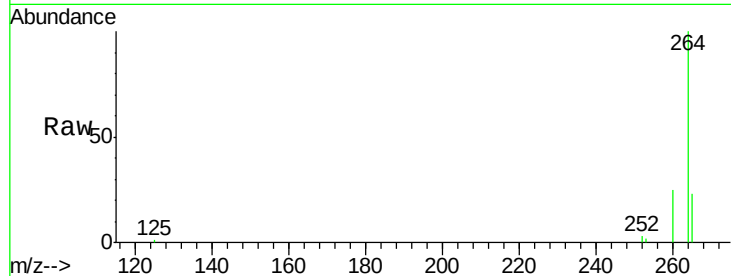




#35
Perylene-d12
 Concen: 5.00 ng
 RT: 23.73 min Scan# 1424
 Delta R.T. -0.02 min
 Lab File: BE091851.D
 Acq: 23 May 2016 17:30

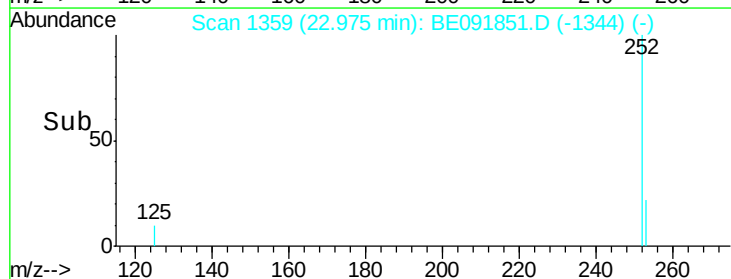
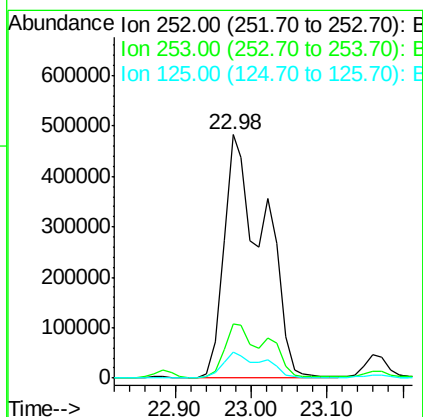
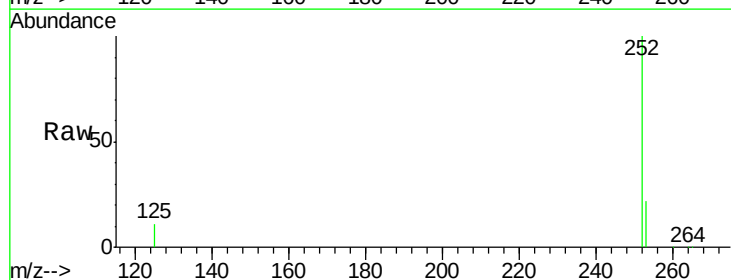
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MSD

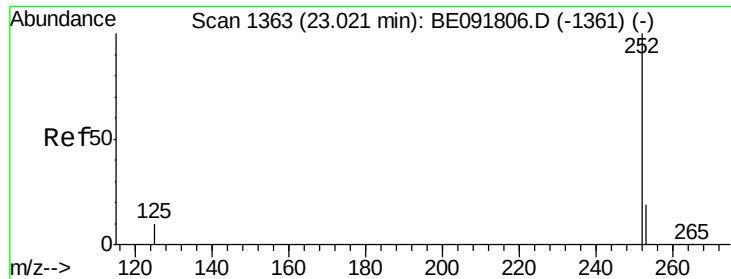
Tgt Ion: 264 Resp: 263835
 Ion Ratio Lower Upper
 264 100
 260 24.8 20.0 30.0
 265 23.3 17.5 26.3



#36
Benzo(b)fluoranthene
 Concen: 26.71 ng
 RT: 22.98 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: BE091851.D
 Acq: 23 May 2016 17:30

Tgt Ion: 252 Resp: 1762911
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.4 26.0
 125 10.5 10.2 15.2





#37

Benzo(k)fluoranthene

Concen: 26.09 ng

RT: 22.98 min Scan# 1359

Delta R.T. -0.07 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

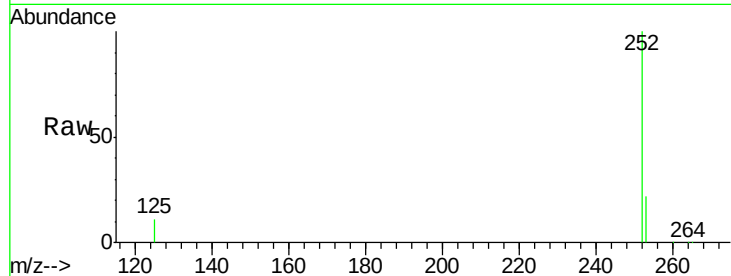
Tgt Ion:252 Resp: 1762911

Ion Ratio Lower Upper

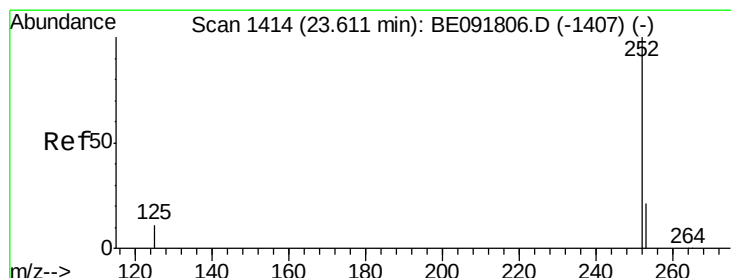
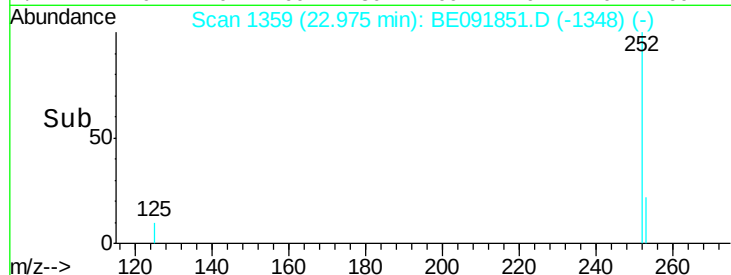
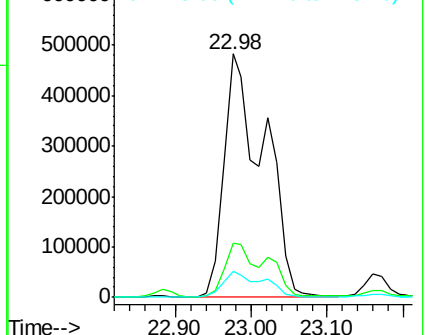
252 100

253 22.1 17.6 26.4

125 10.5 9.9 14.9



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



#38

Benzo(a)pyrene

Concen: 13.73 ng

RT: 23.61 min Scan# 1414

Delta R.T. -0.02 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

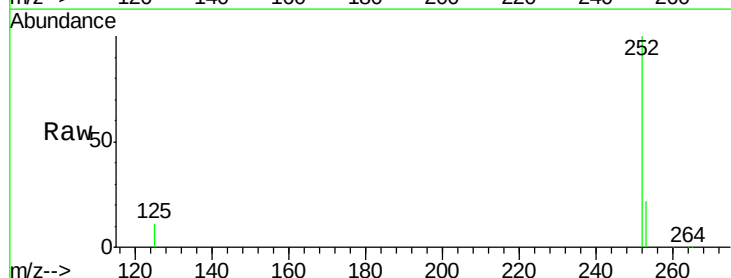
Tgt Ion:252 Resp: 865202

Ion Ratio Lower Upper

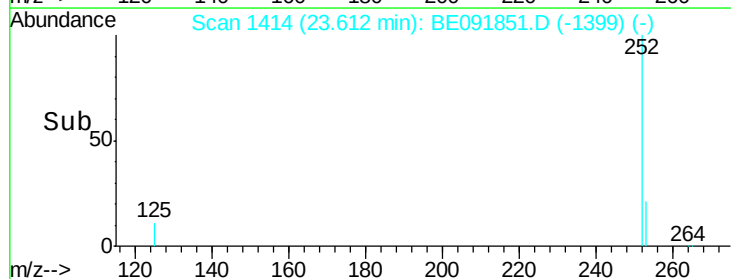
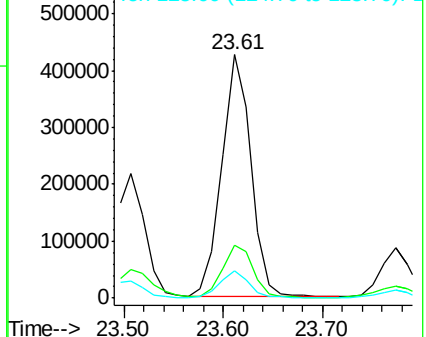
252 100

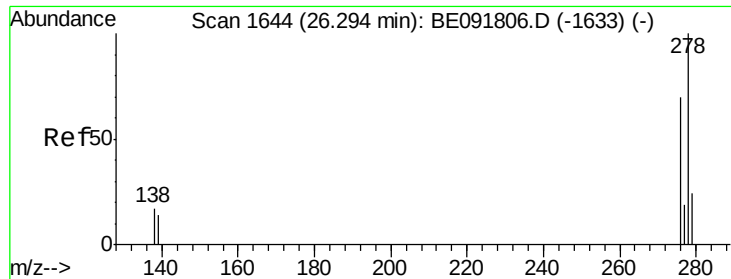
253 21.8 18.1 27.1

125 11.4 11.0 16.4



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





#39

Dibenzo(a,h)anthracene

Concen: 5.79 ng

RT: 26.29 min Scan# 1644

Delta R.T. -0.05 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MSD

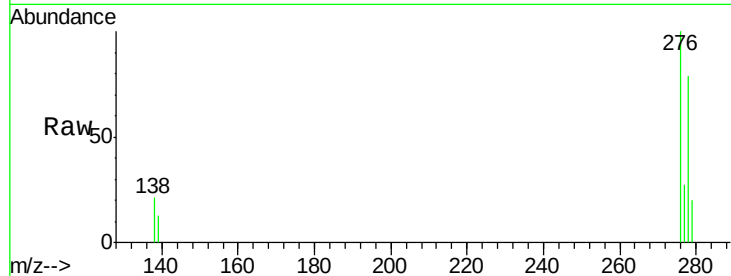
Tgt Ion: 278 Resp: 355939

Ion Ratio Lower Upper

278 100

139 16.2 16.0 24.0

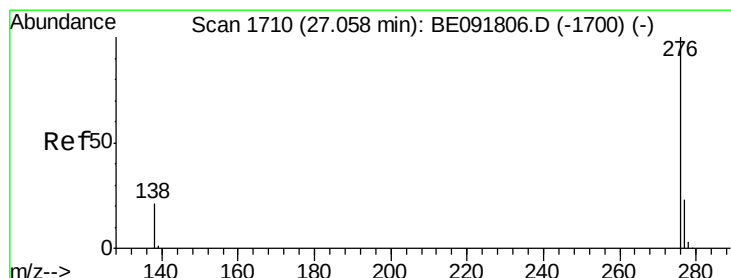
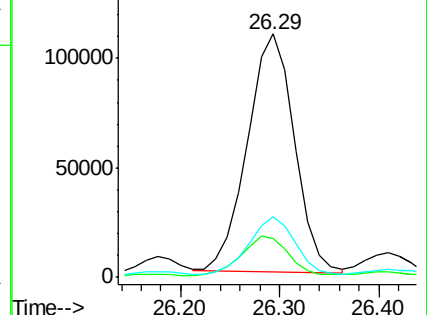
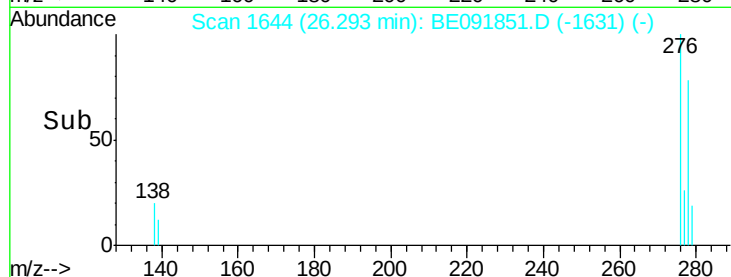
279 24.7 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#40

Benzo(g,h,i)perylene

Concen: 11.32 ng

RT: 27.06 min Scan# 1710

Delta R.T. -0.05 min

Lab File: BE091851.D

Acq: 23 May 2016 17:30

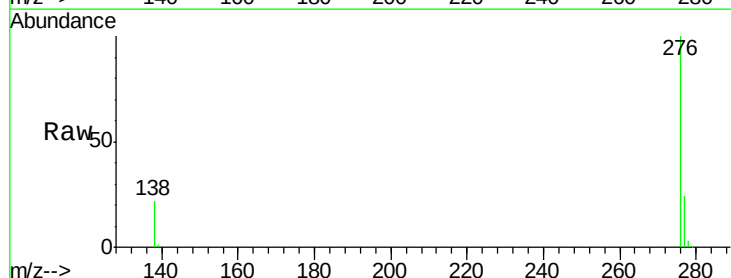
Tgt Ion: 276 Resp: 718170

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 22.4 20.4 30.6



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

