

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091579.D
 Acq On : 31 Mar 2016 11:38
 Operator : UM/SJ
 Sample : PB89316BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:44:27 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	37369	5.00	ng	-0.02
6) Naphthalene-d8	10.59	136	168249	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	104347	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	274141	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	381775	5.00	ng	-0.02
28) Perylene-d12	23.76	264	317126	5.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.39	112	61850	6.32	ng	-0.03
5) Phenol-d6	6.97	99	86312	6.52	ng	-0.02
7) Nitrobenzene-d5	8.96	82	36835	3.26	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	26227	5.67	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	103540	3.49	ng	-0.02
24) Terphenyl-d14	19.76	244	167512	3.46	ng	-0.02

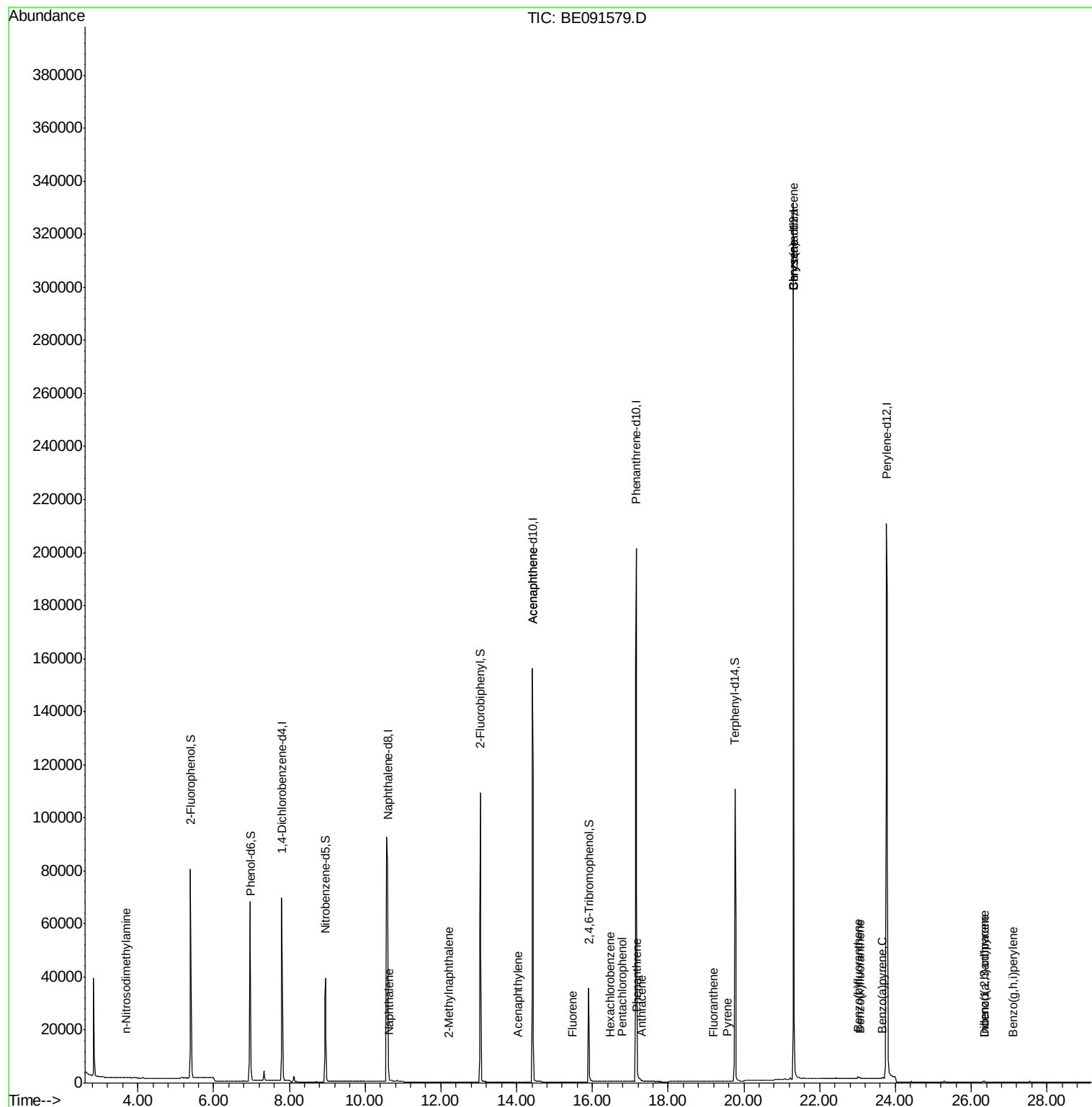
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.70	42	31	0.00	ng	# 1
8) Naphthalene	10.63	128	38	0.00	ng	# 1
9) 2-Methylnaphthalene	12.21	142	26	0.00	ng	# 32
13) Acenaphthylene	14.04	152	340	0.01	ng	# 1
14) Acenaphthene	14.42	154	419	0.02	ng	# 9
15) Fluorene	15.47	166	85	0.00	ng	# 66
17) Hexachlorobenzene	16.46	284	15	0.00	ng	# 1
18) Pentachlorophenol	16.79	266	239	0.04	ng	# 79
19) Phenanthrene	17.18	178	538	0.01	ng	# 79
20) Anthracene	17.29	178	49	0.00	ng	# 76
21) Fluoranthene	19.21	202	128	0.00	ng	# 39
23) Pyrene	19.57	202	122	0.00	ng	# 47
25) Benzo(a)anthracene	21.31	228	1366	0.02	ng	# 65
26) Chrysene	21.31	228	1384	0.02	ng	# 76
27) Indeno(1,2,3-cd)pyrene	26.34	276	199	0.00	ng	# 73
29) Benzo(b)fluoranthene	23.01	252	584	0.01	ng	# 1
30) Benzo(k)fluoranthene	23.06	252	342	0.00	ng	# 1
31) Benzo(a)pyrene	23.66	252	178	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.35	278	138	0.00	ng	# 1
33) Benzo(a,h,i)perylene	27.11	276	136	0.00	ng	# 1

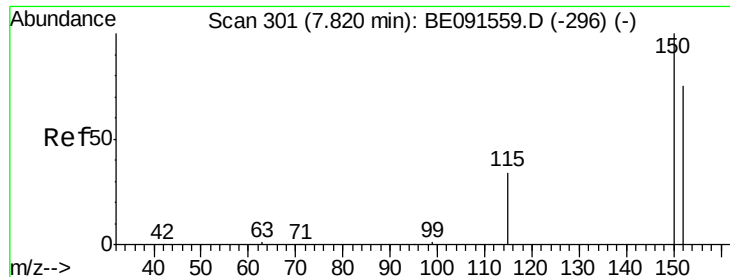
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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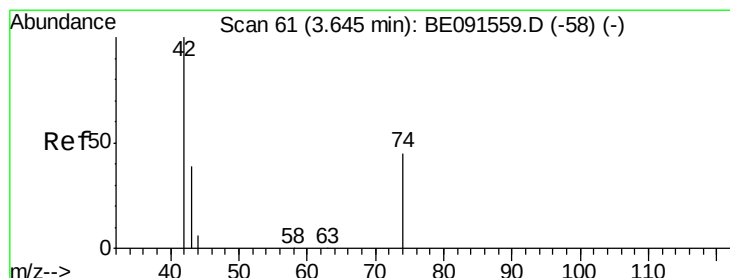
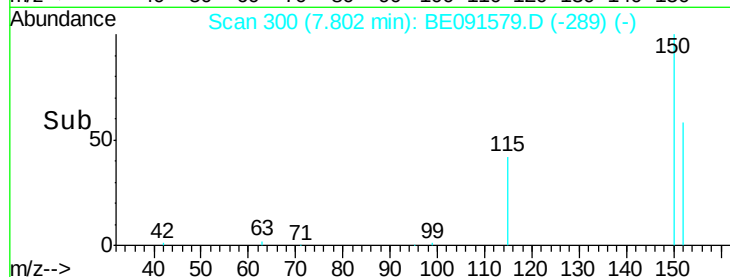
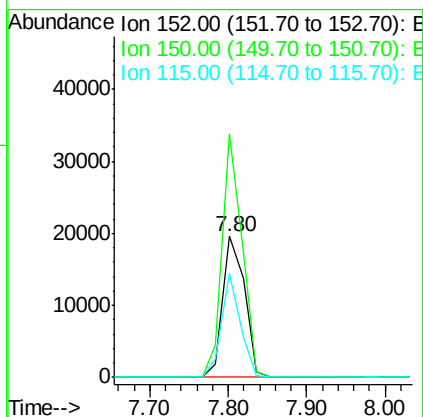
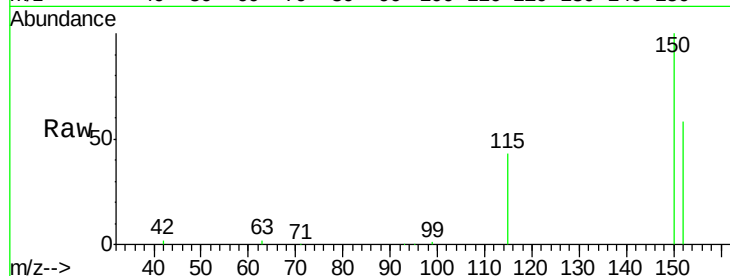


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.80 min Scan# 300
Delta R.T. -0.02 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

Instrument :
BNA_E
ClientSampleId :

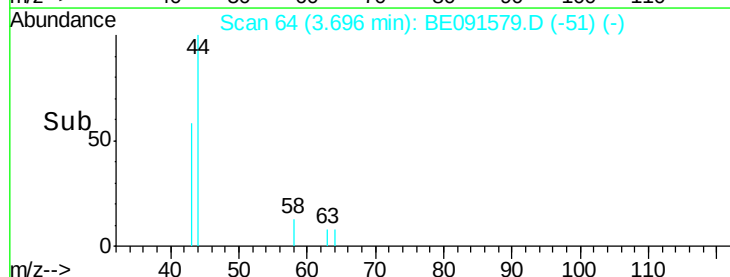
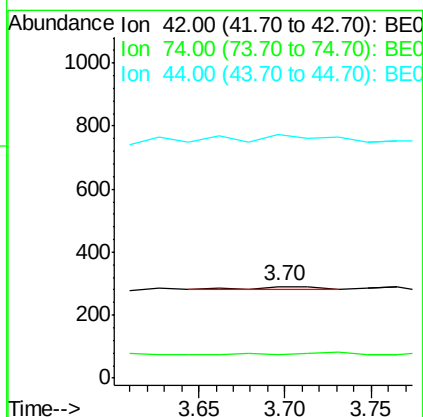
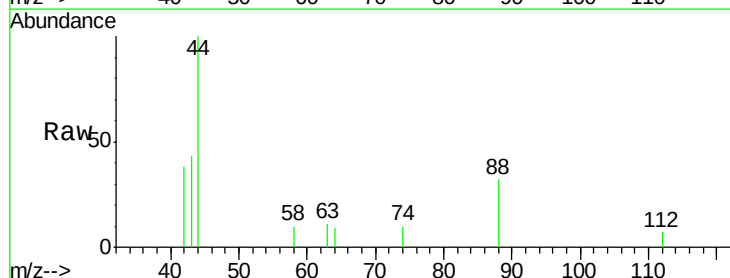
Tot Ion:152 Resp: 37369
Ion Ratio Lower Upper
152 100
150 173.0 122.2 183.2
115 73.8 45.9 68.9#

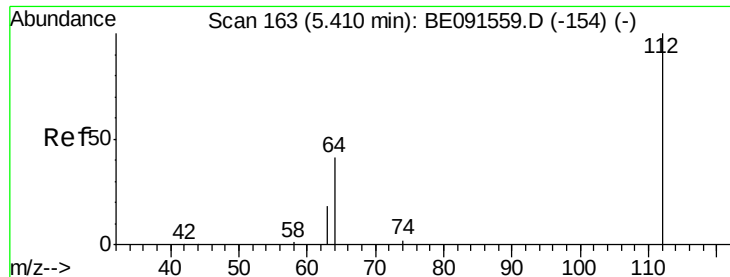


#3

n-Nitrosodimethylamine
Concen: 0.00 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

Tgt Ion: 42 Resp: 31
Ion Ratio Lower Upper
42 100
74 0.0 84.3 126.5#
44 206.5 6.7 10.1#





#4

2-Fluorophenol

Concen: 6.32 ng

RT: 5.39 min Scan# 162

Delta R.T. -0.03 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

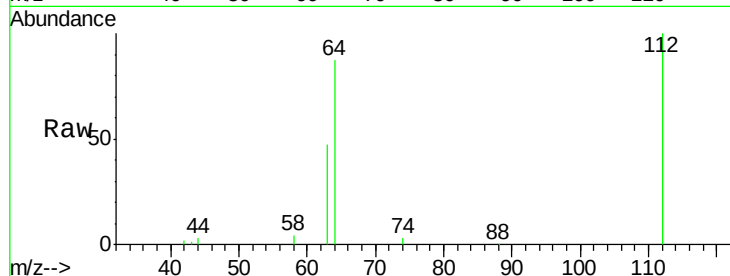
Tot Ion:112 Resp: 61850

Ion Ratio Lower Upper

112 100

64 68.7 53.3 79.9

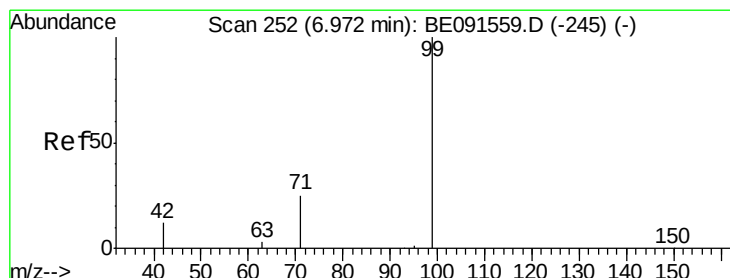
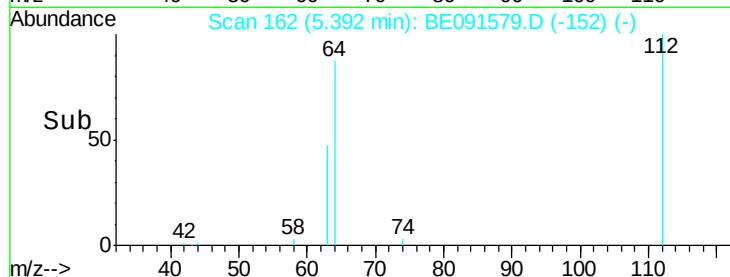
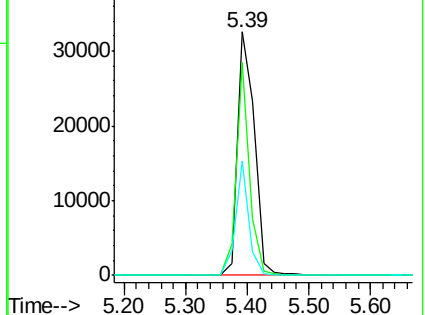
63 36.9 29.8 44.8



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: 6.52 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

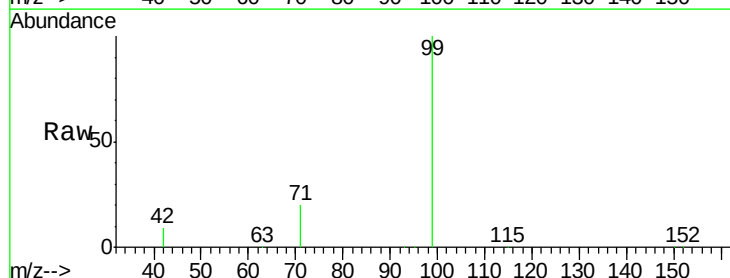
Tgt Ion: 99 Resp: 86312

Ion Ratio Lower Upper

99 100

42 24.8 20.6 30.8

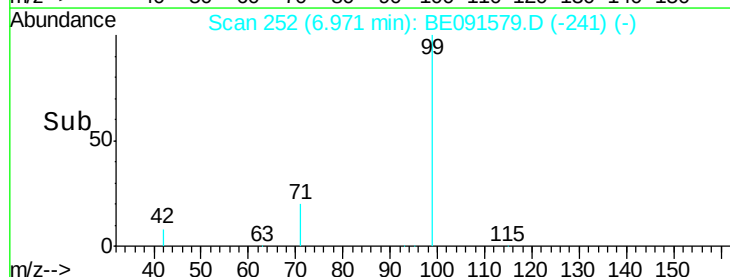
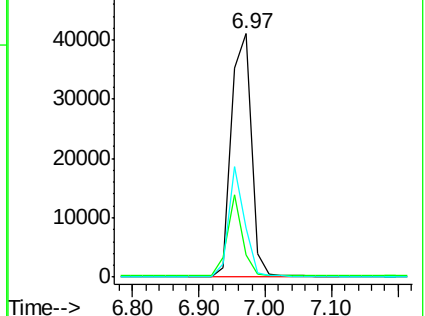
71 36.1 29.0 43.4

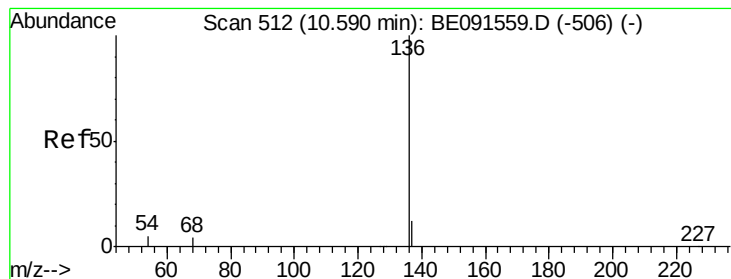


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 168249

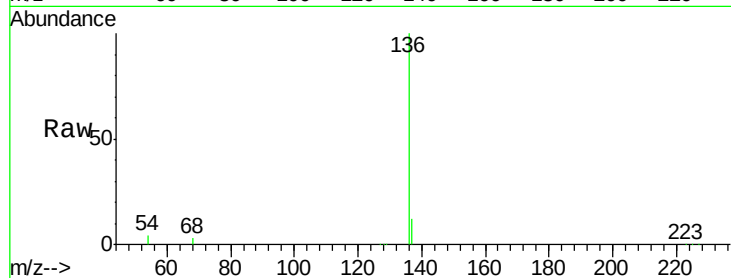
Ion Ratio Lower Upper

136 100

137 12.3 8.8 13.2

54 3.7 5.2 7.8#

68 3.3 4.1 6.1#

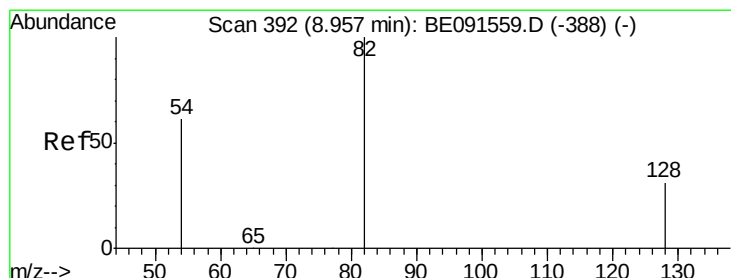
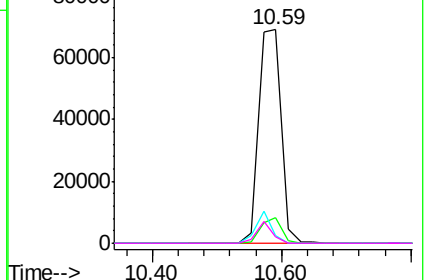
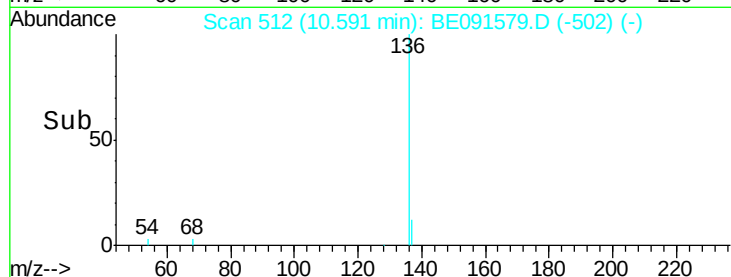


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.26 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

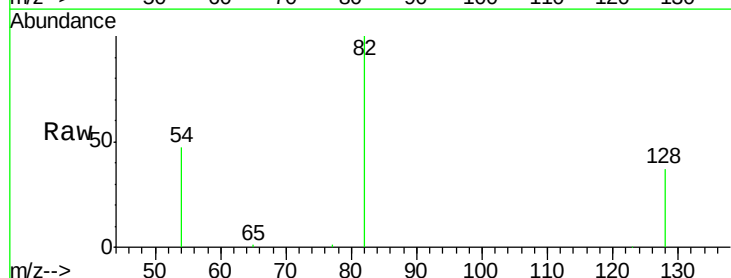
Tgt Ion: 82 Resp: 36835

Ion Ratio Lower Upper

82 100

128 36.7 23.5 35.3#

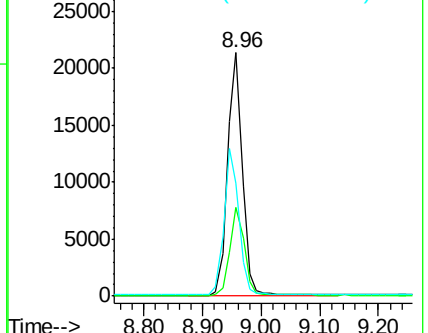
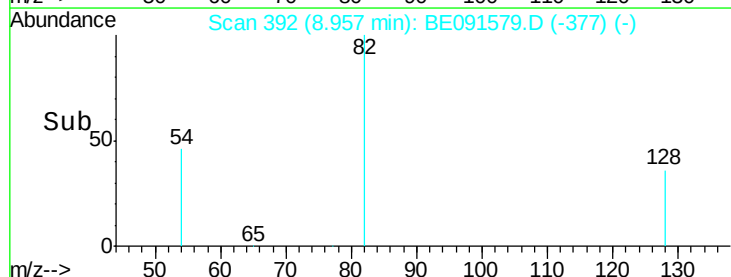
54 46.6 52.4 78.6#

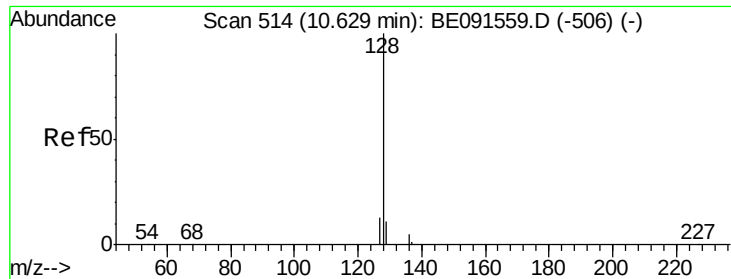


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.00 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

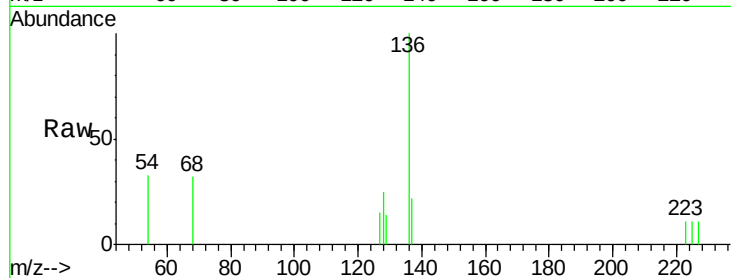
Tot Ion:128 Resp: 38

Ion Ratio Lower Upper

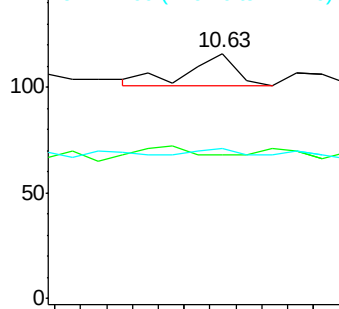
128 100

129 58.6 8.2 12.2#

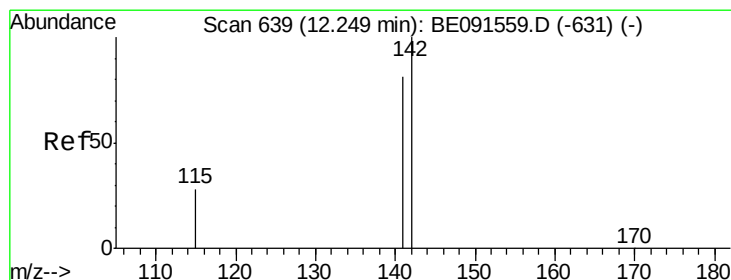
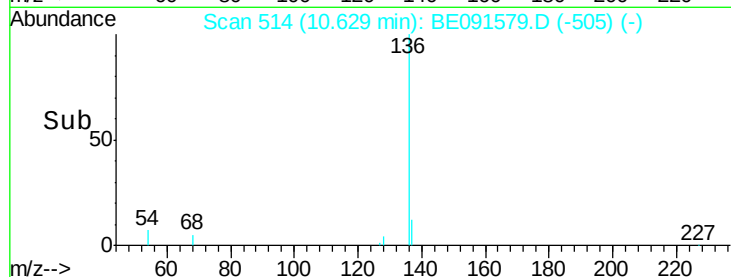
127 61.2 11.8 17.8#



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



Time--> 10.50 10.60 10.70



#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.21 min Scan# 636

Delta R.T. -0.05 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

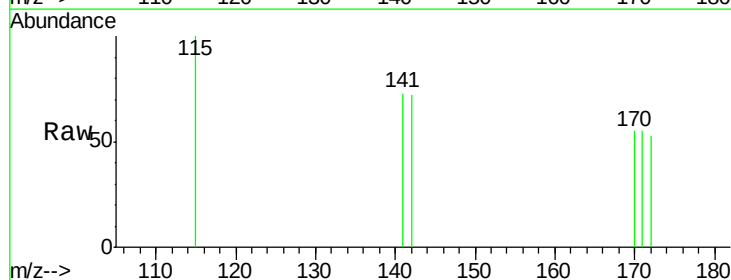
Tgt Ion:142 Resp: 26

Ion Ratio Lower Upper

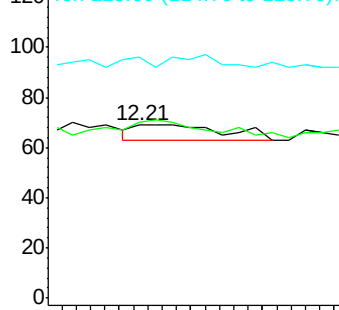
142 100

141 101.4 66.9 100.3#

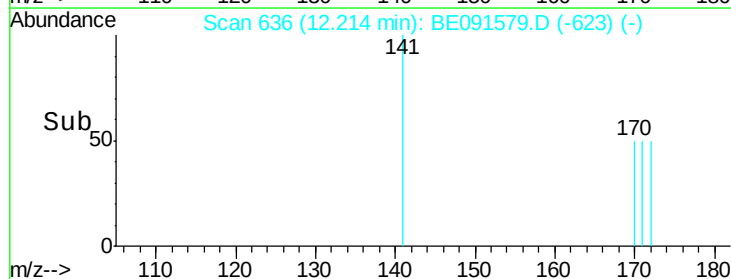
115 139.1 25.1 37.7#

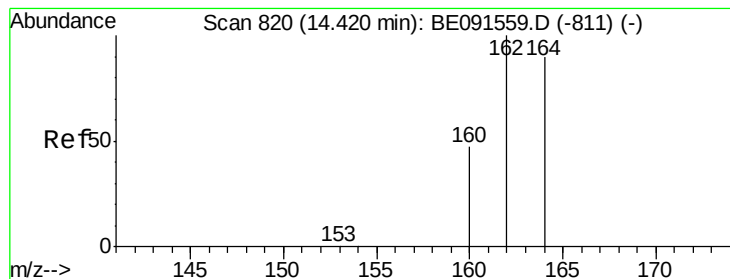


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



Time--> 12.20 12.25 12.30





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

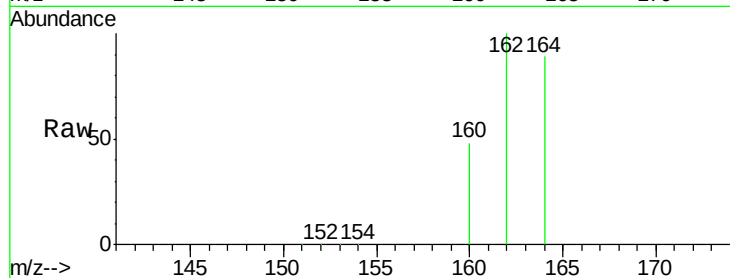
Tot Ion:164 Resp: 104347

Ion Ratio Lower Upper

164 100

162 112.8 84.4 126.6

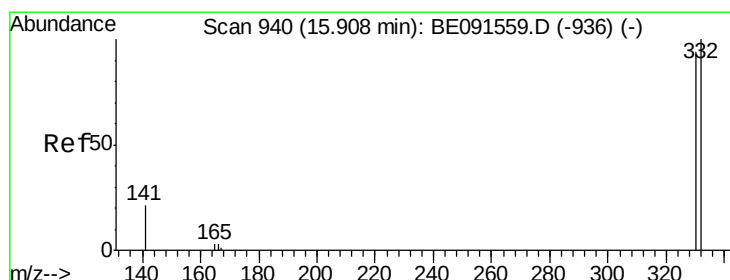
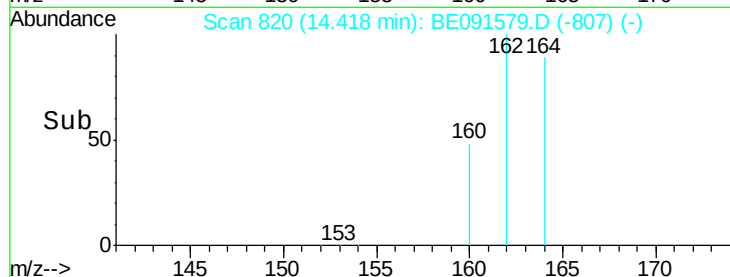
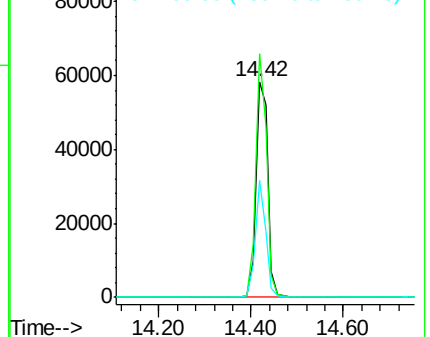
160 54.1 37.7 56.5



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



#11

2,4,6-Tribromophenol

Concen: 5.67 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

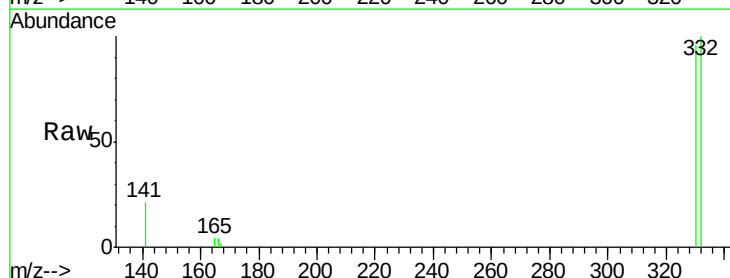
Tgt Ion:330 Resp: 26227

Ion Ratio Lower Upper

330 100

332 96.1 79.2 118.8

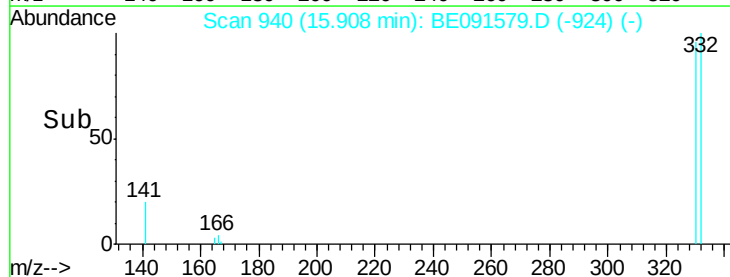
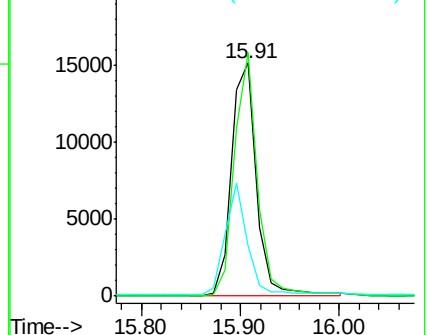
141 43.0 28.1 42.1#

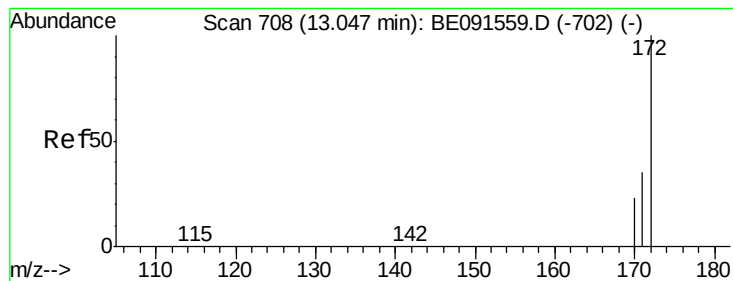


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

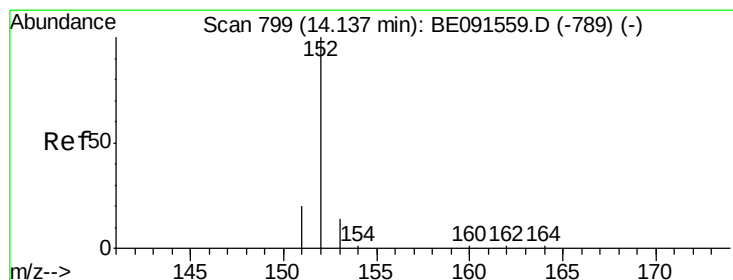
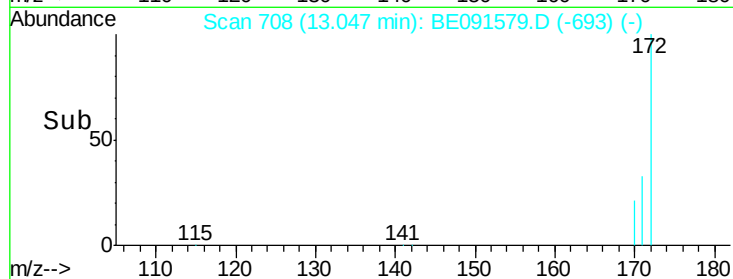
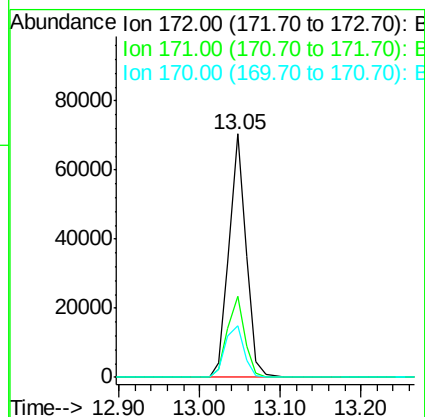
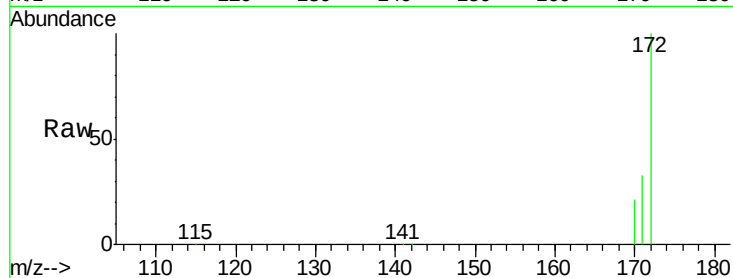




#12
2-Fluorobiphenyl
Concen: 3.49 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

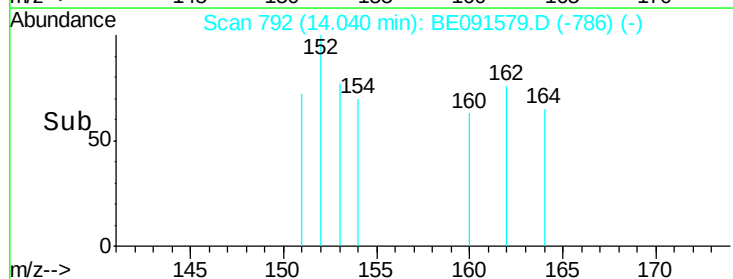
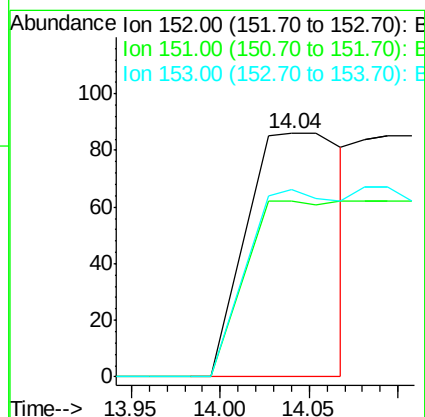
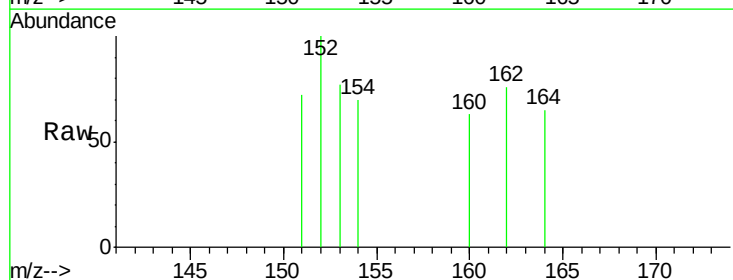
Instrument :
BNA_E
ClientSampleId :

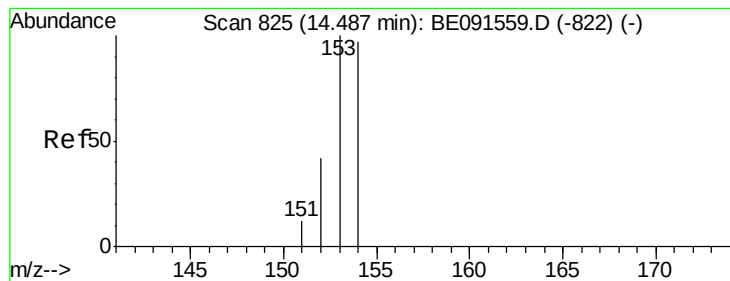
Tot Ion:172 Resp: 103540
Ion Ratio Lower Upper
172 100
171 33.3 29.8 44.8
170 21.4 21.4 32.2#



#13
Acenaphthylene
Concen: 0.01 ng
RT: 14.04 min Scan# 792
Delta R.T. -0.11 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

Tgt Ion:152 Resp: 340
Ion Ratio Lower Upper
152 100
151 57.4 16.3 24.5#
153 75.6 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

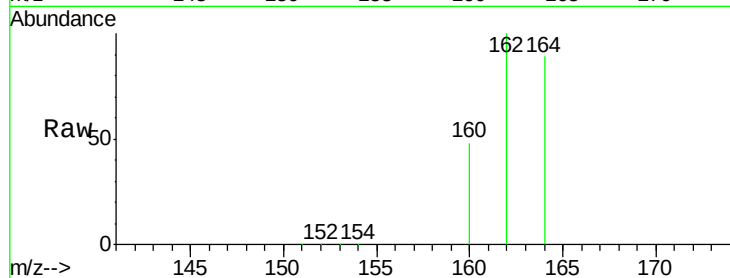
Tot Ion:154 Resp: 419

Ion Ratio Lower Upper

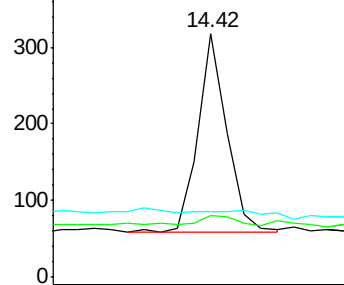
154 100

153 6.0 87.3 130.9#

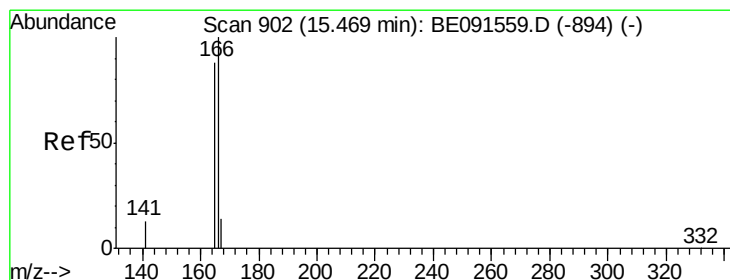
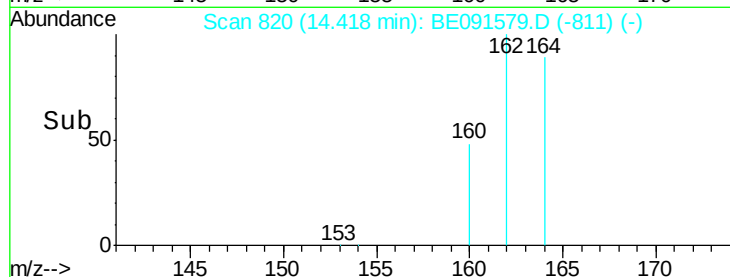
152 0.0 42.9 64.3#



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



Time-->



#15

Fluorene

Concen: 0.00 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

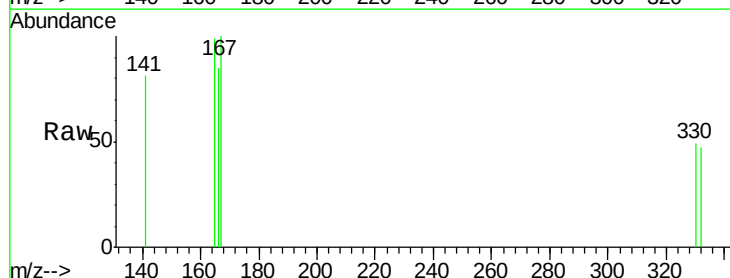
Tgt Ion:166 Resp: 85

Ion Ratio Lower Upper

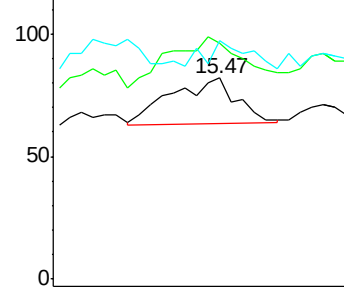
166 100

165 127.1 79.2 118.8#

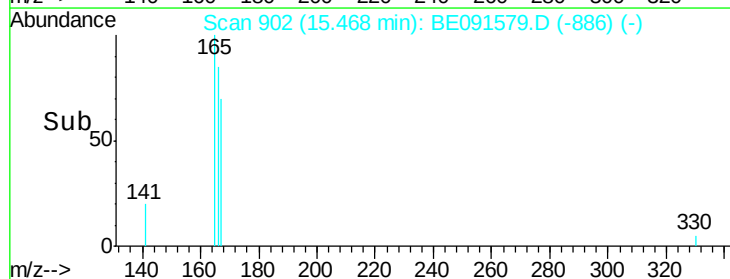
167 44.7 10.8 16.2#

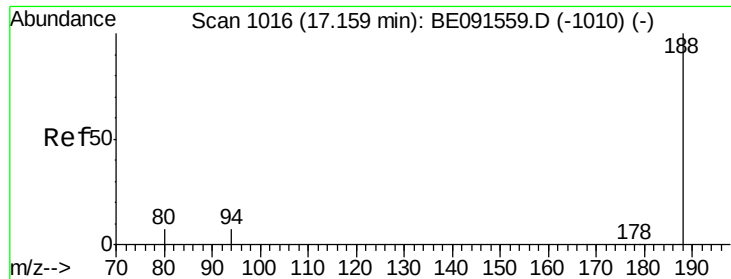


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time-->

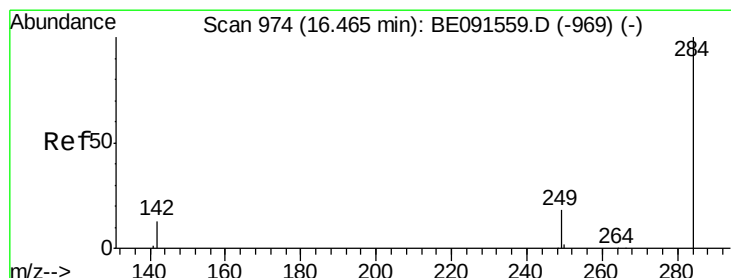
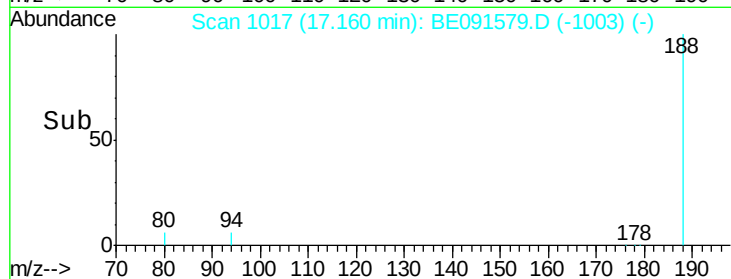
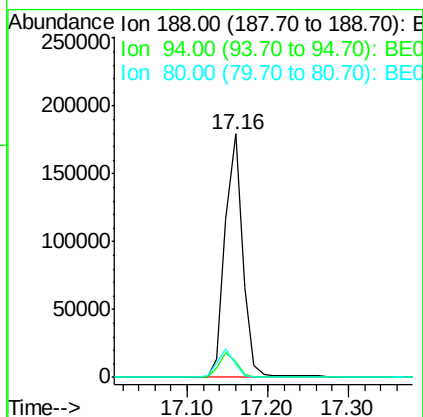
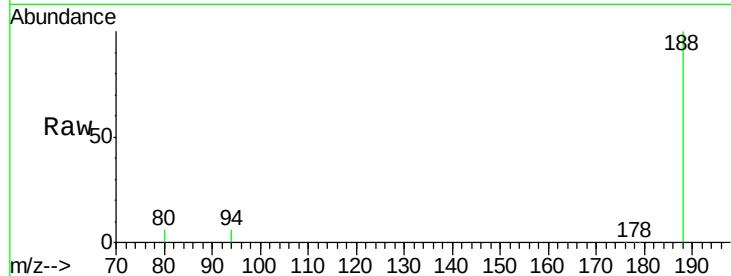




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

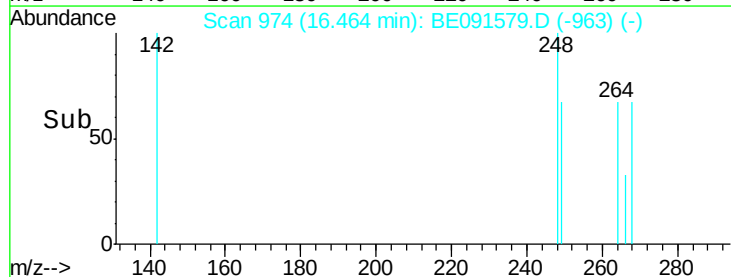
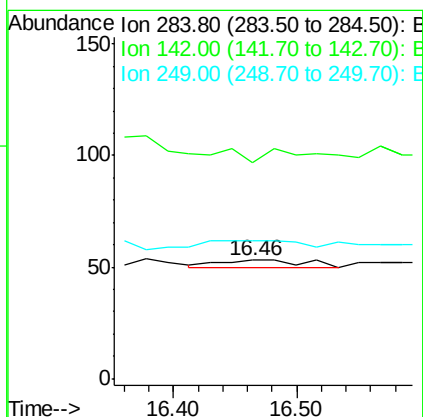
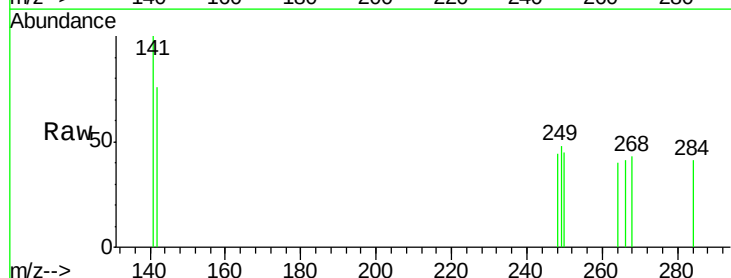
Instrument :
BNA_E
ClientSampled :

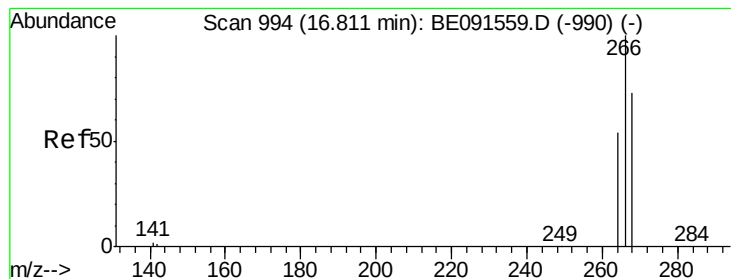
Tot Ion:188 Resp: 274141
Ion Ratio Lower Upper
188 100
94 6.3 5.4 8.2
80 5.6 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

Tgt Ion:284 Resp: 15
Ion Ratio Lower Upper
284 100
142 126.7 31.0 46.4#
249 0.0 25.8 38.8#





#18

Pentachlorophenol

Concen: 0.04 ng

RT: 16.79 min Scan# 993

Delta R.T. -0.03 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

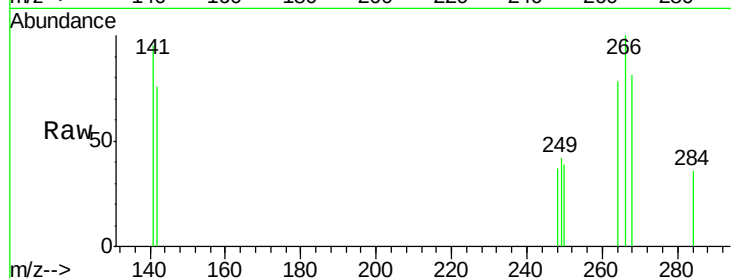
Tot Ion:266 Resp: 239

Ion Ratio Lower Upper

266 100

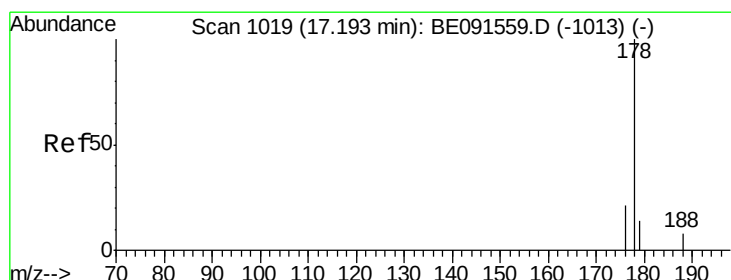
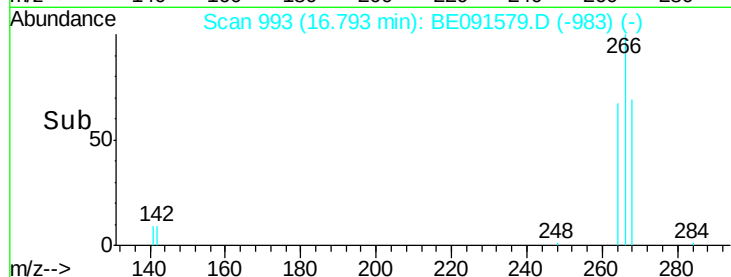
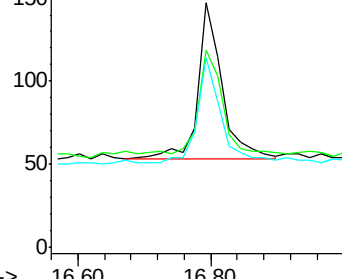
268 81.0 48.2 72.2#

264 77.6 52.1 78.1



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

16.79



#19

Phenanthrene

Concen: 0.01 ng

RT: 17.18 min Scan# 1019

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

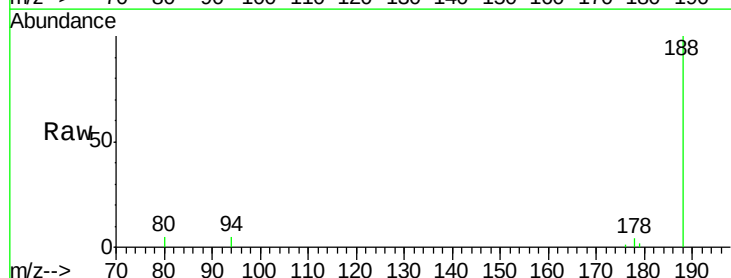
Tgt Ion:178 Resp: 538

Ion Ratio Lower Upper

178 100

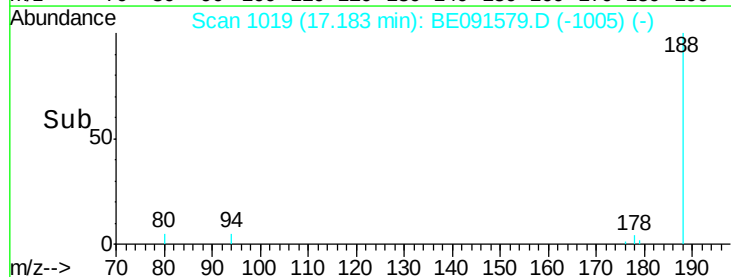
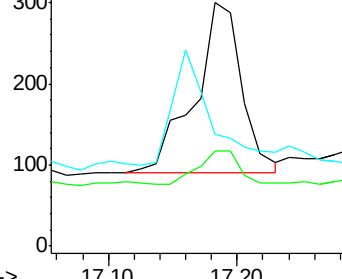
176 16.5 15.5 23.3

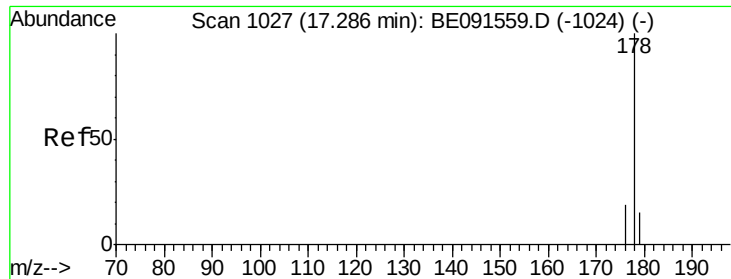
179 0.0 13.1 19.7#



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

17.18

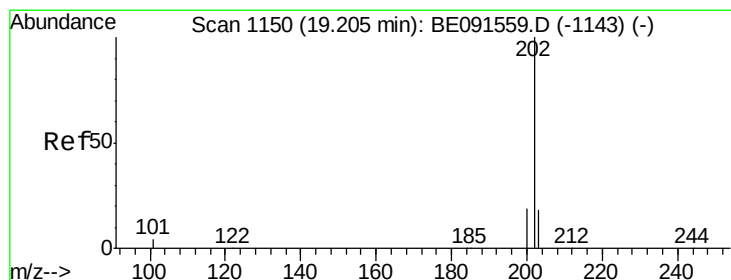
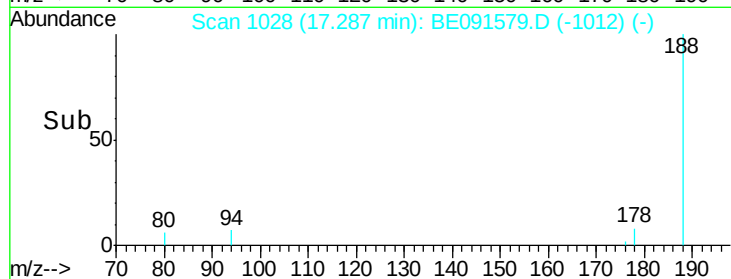
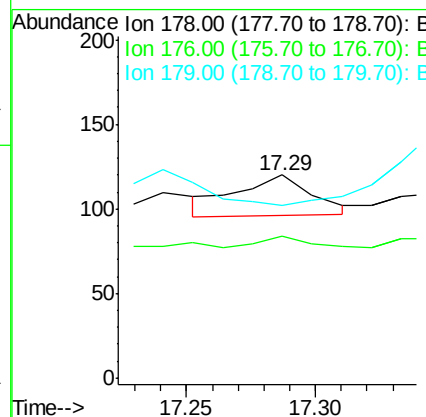
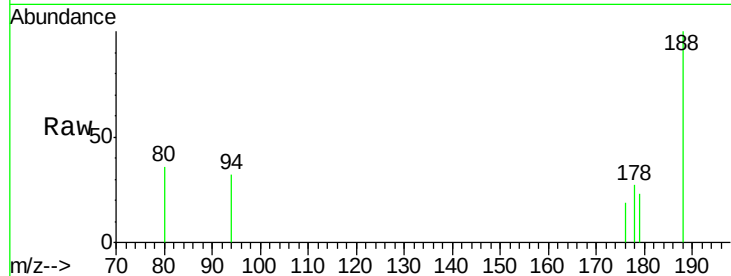




#20
 Anthracene
 Concen: 0.00 ng
 RT: 17.29 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BE091579.D
 Acq: 31 Mar 2016 11:38

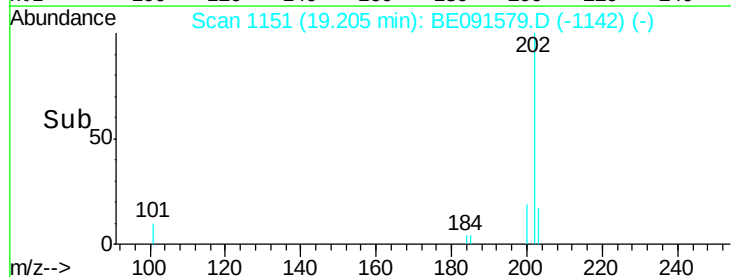
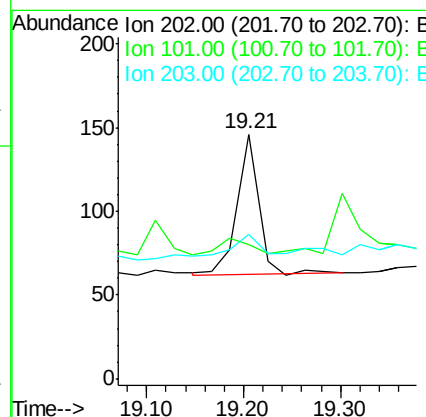
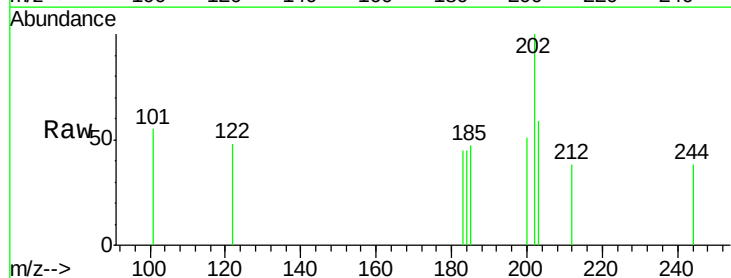
Instrument :
 BNA_E
 ClientSampleId :

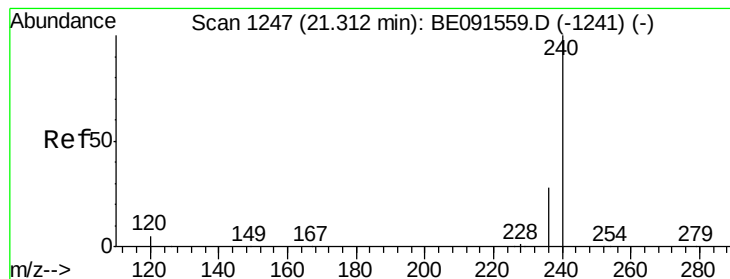
Tot Ion:178 Resp: 49
 Ion Ratio Lower Upper
 178 100
 176 24.5 14.9 22.3#
 179 0.0 12.2 18.4#



#21
 Fluoranthene
 Concen: 0.00 ng
 RT: 19.21 min Scan# 1151
 Delta R.T. -0.02 min
 Lab File: BE091579.D
 Acq: 31 Mar 2016 11:38

Tgt Ion:202 Resp: 128
 Ion Ratio Lower Upper
 202 100
 101 18.8 8.3 12.5#
 203 53.9 13.9 20.9#





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

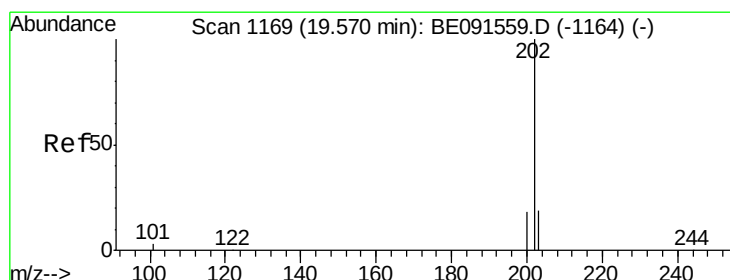
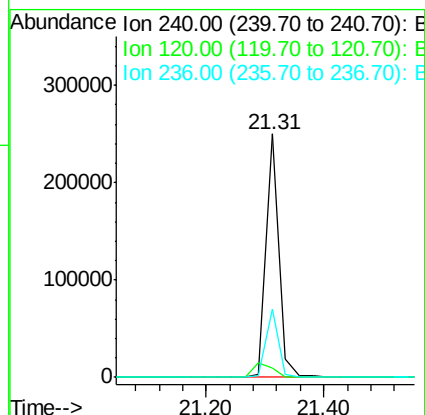
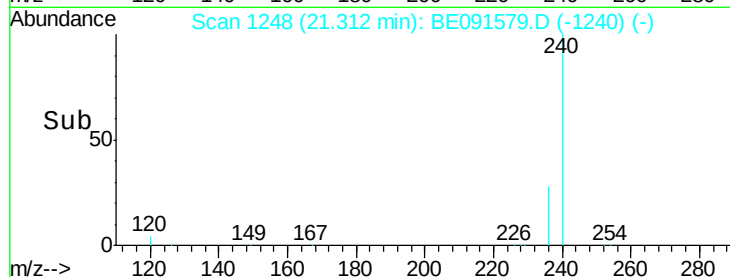
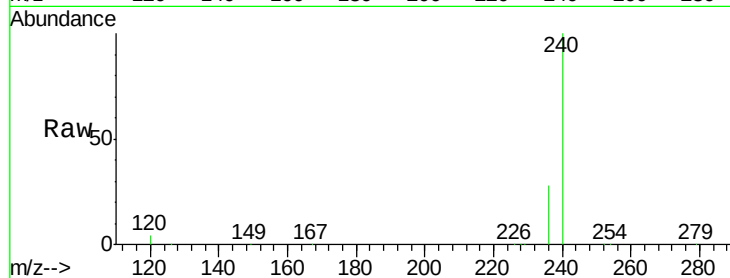
Tot Ion:240 Resp: 381775

Ion Ratio Lower Upper

240 100

120 3.8 4.0 6.0#

236 27.8 23.0 34.4



#23

Pyrene

Concen: 0.00 ng

RT: 19.57 min Scan# 1170

Delta R.T. -0.00 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

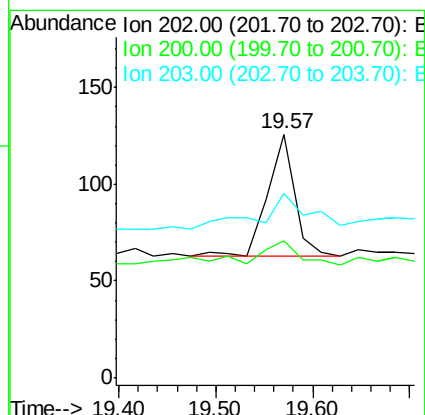
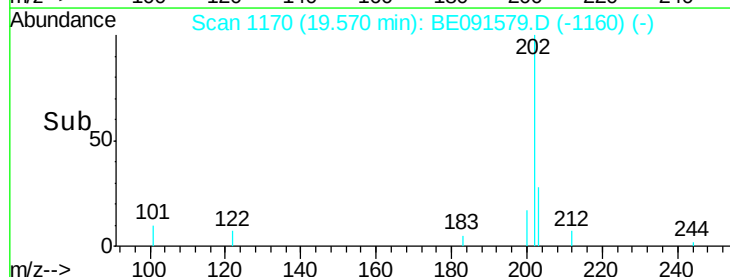
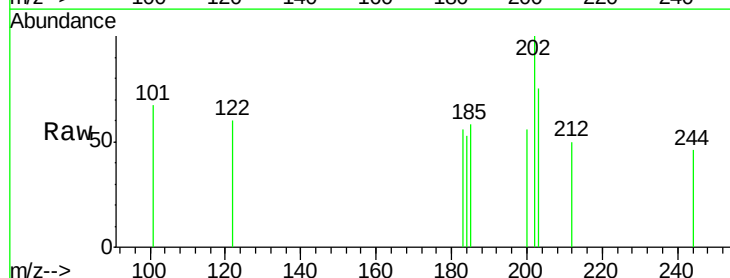
Tgt Ion:202 Resp: 122

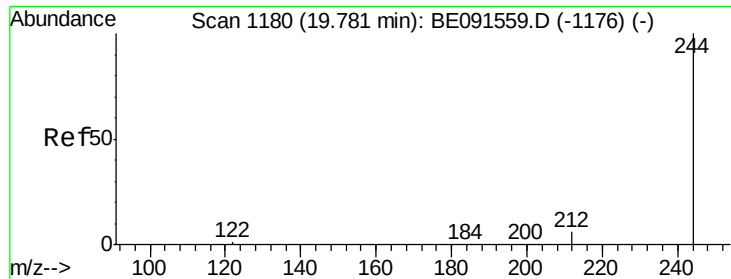
Ion Ratio Lower Upper

202 100

200 31.1 16.4 24.6#

203 56.6 14.6 21.8#





#24

Terphenyl-d14

Concen: 3.46 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampled :

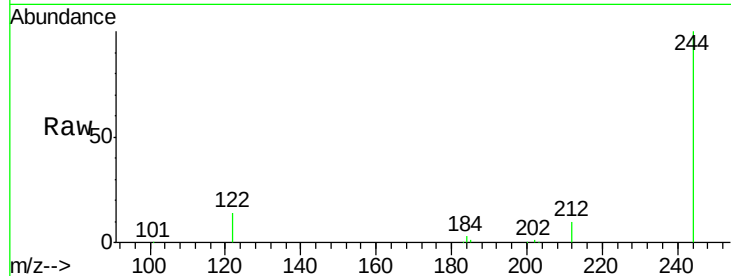
Tot Ion:244 Resp: 167512

Ion Ratio Lower Upper

244 100

212 10.2 5.8 8.8#

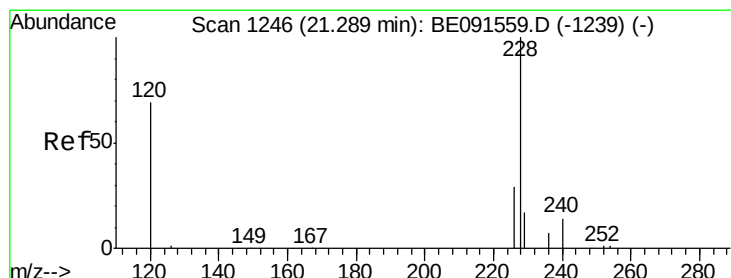
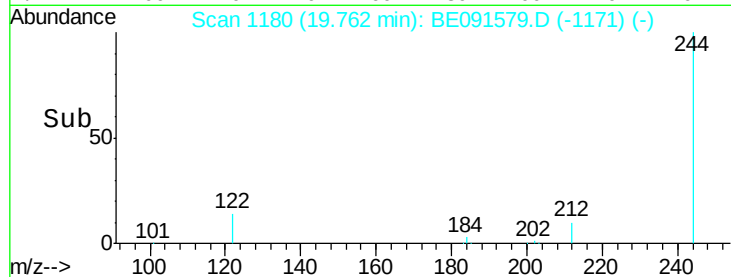
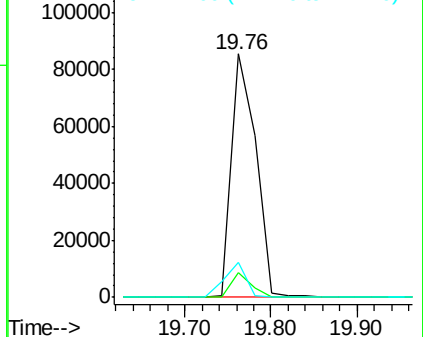
122 14.5 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 0.02 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

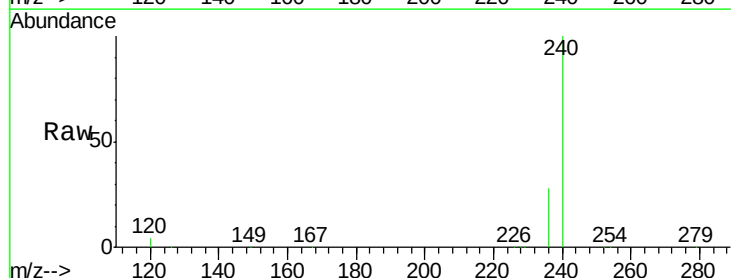
Tgt Ion:228 Resp: 1366

Ion Ratio Lower Upper

228 100

226 15.7 24.0 36.0#

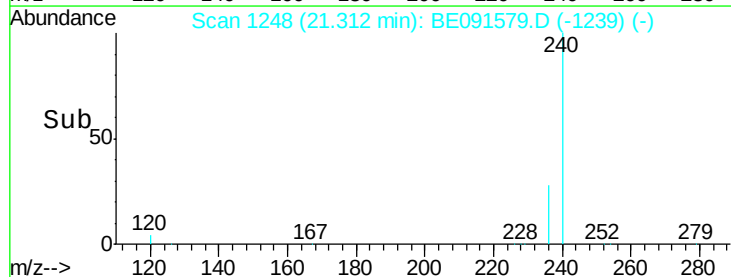
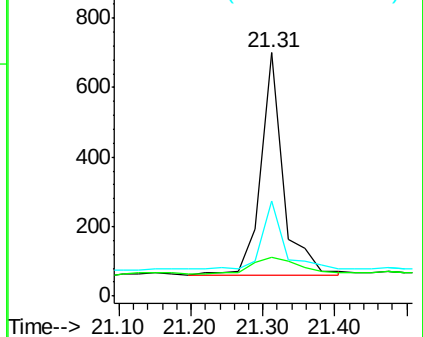
229 39.2 13.8 20.6#

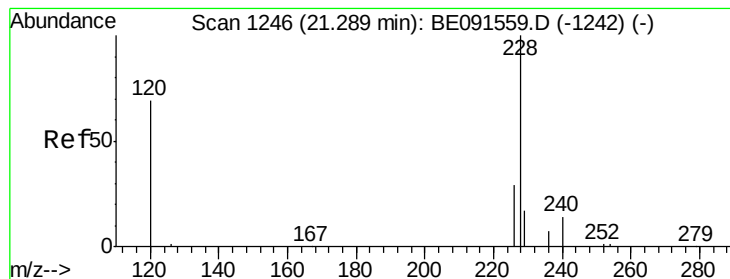


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 0.02 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.05 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

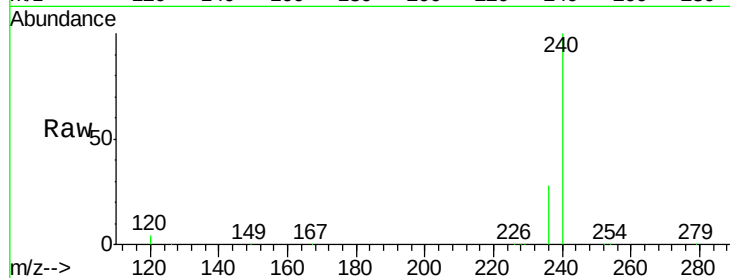
Tot Ion:228 Resp: 1384

Ion Ratio Lower Upper

228 100

226 15.7 18.9 28.3#

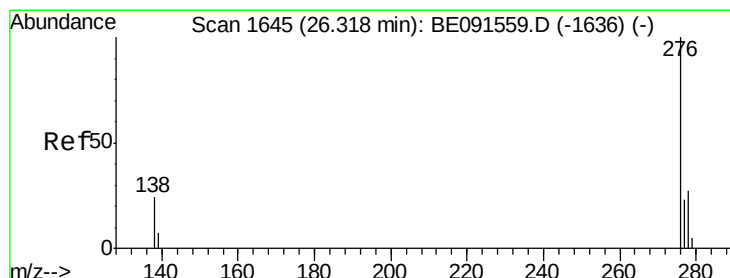
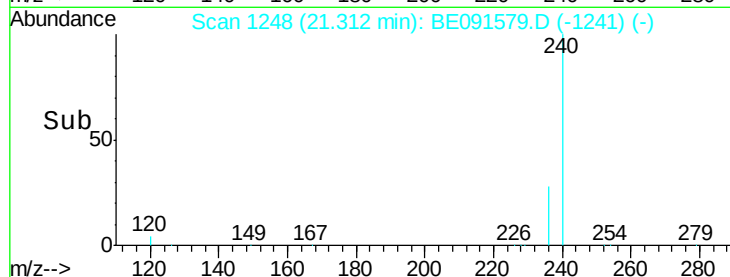
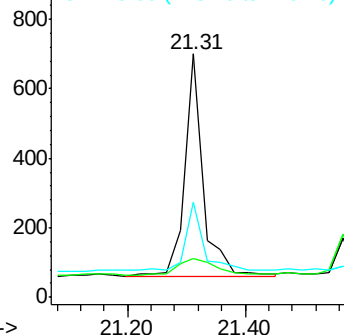
229 39.2 19.1 28.7#



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng

RT: 26.34 min Scan# 1648

Delta R.T. -0.04 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

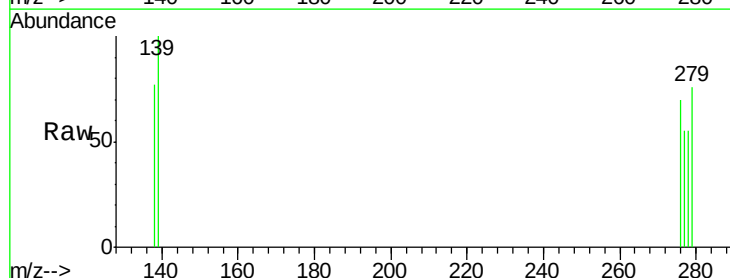
Tgt Ion:276 Resp: 199

Ion Ratio Lower Upper

276 100

138 0.0 20.2 30.4#

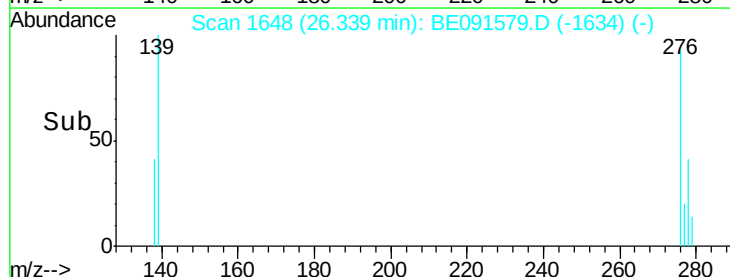
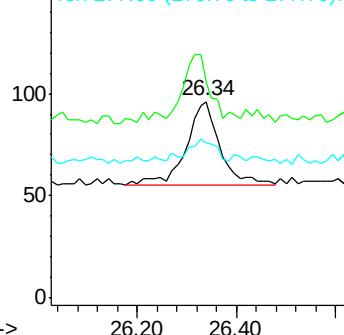
277 26.1 19.8 29.8

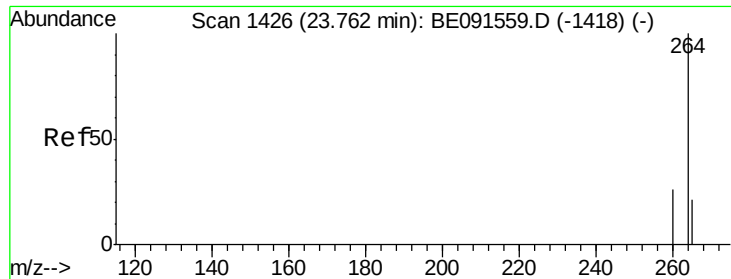


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

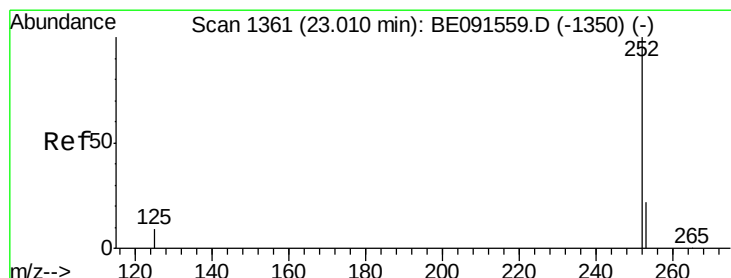
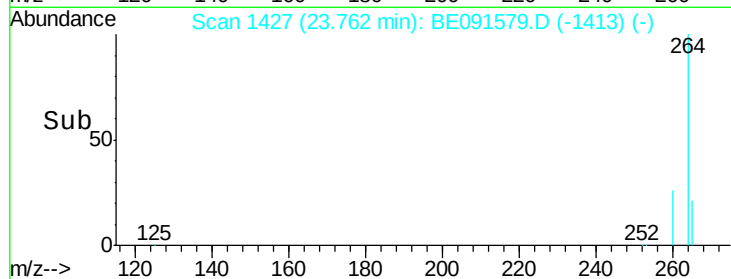
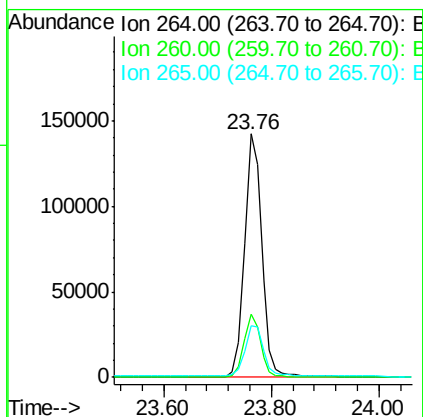
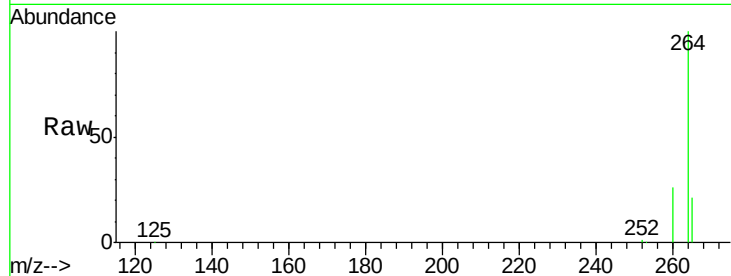




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

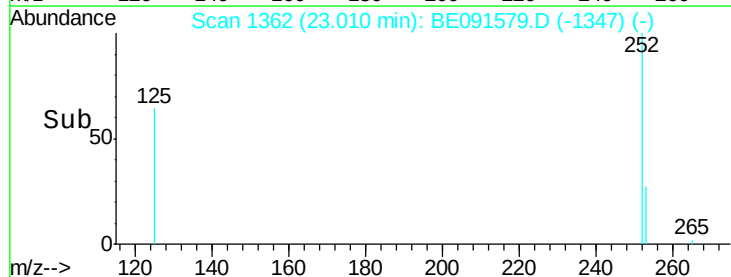
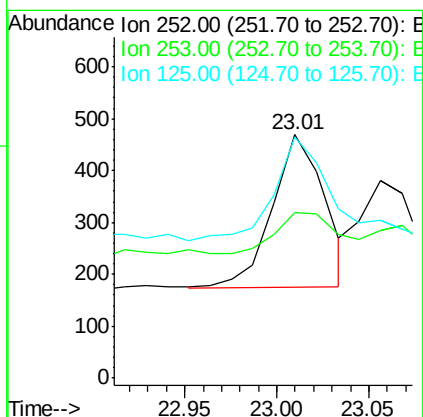
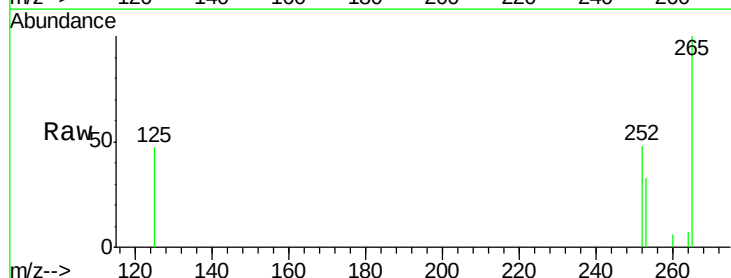
Instrument :
BNA_E
ClientSampleId :

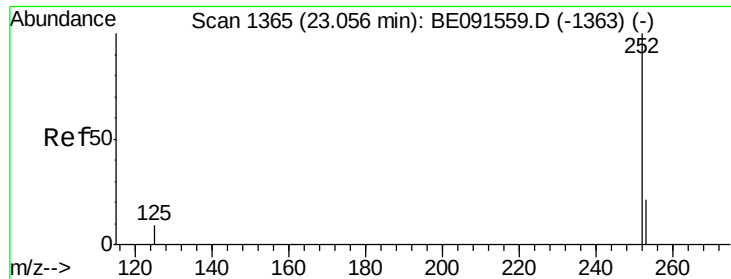
Tot Ion:264 Resp: 317126
Ion Ratio Lower Upper
264 100
260 25.8 20.1 30.1
265 21.2 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 0.01 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091579.D
Acq: 31 Mar 2016 11:38

Tgt Ion:252 Resp: 584
Ion Ratio Lower Upper
252 100
253 68.0 18.7 28.1#
125 99.1 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 23.06 min Scan# 1366

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

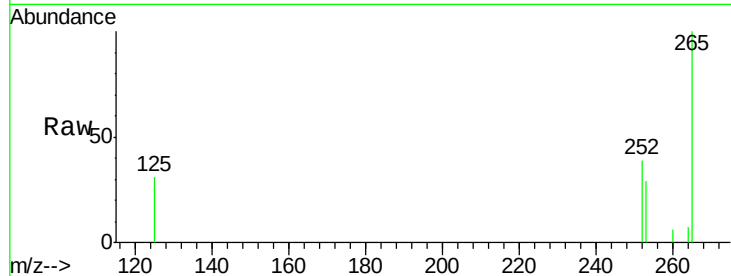
Tot Ion:252 Resp: 342

Ion Ratio Lower Upper

252 100

253 74.8 20.2 30.4#

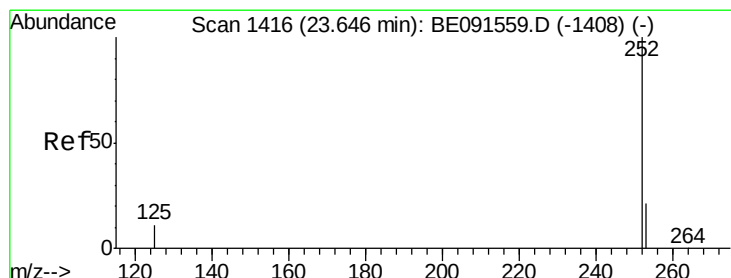
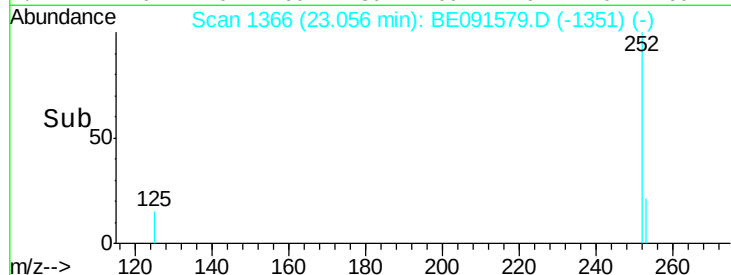
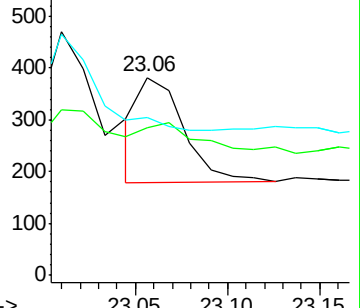
125 80.1 9.4 14.2#



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



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.66 min Scan# 1418

Delta R.T. -0.02 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

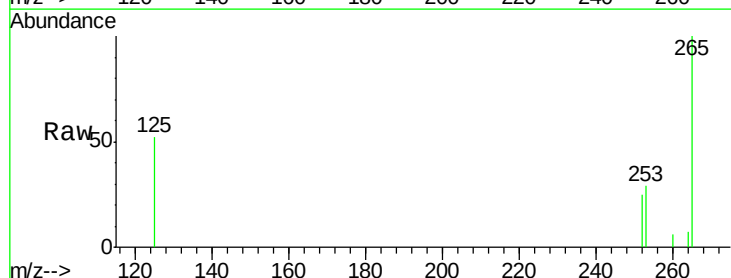
Tgt Ion:252 Resp: 178

Ion Ratio Lower Upper

252 100

253 118.7 19.4 29.0#

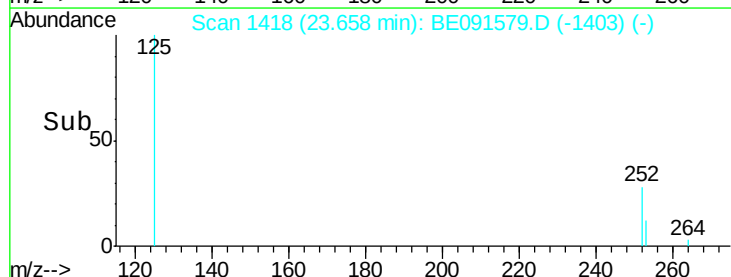
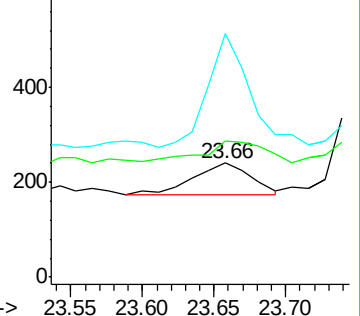
125 212.9 11.4 17.2#

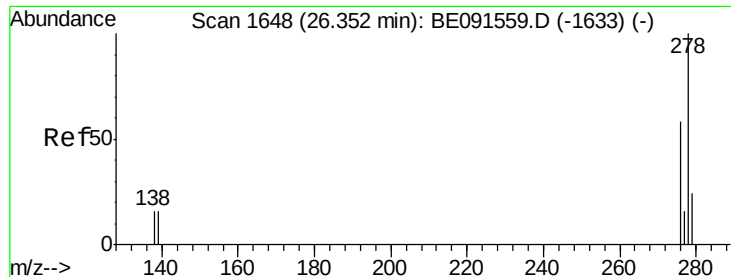


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#32

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.35 min Scan# 1649

Delta R.T. -0.05 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

Instrument :

BNA_E

ClientSampleId :

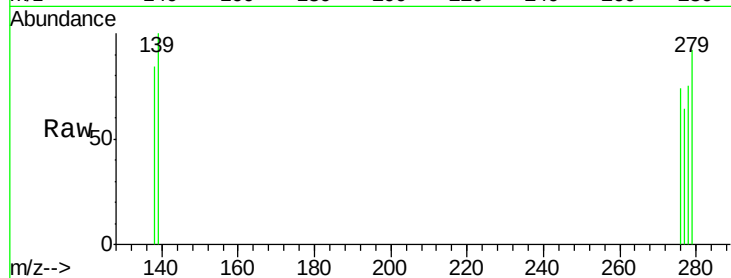
Tot Ion:278 Resp: 138

Ion Ratio Lower Upper

278 100

139 133.0 14.2 21.4#

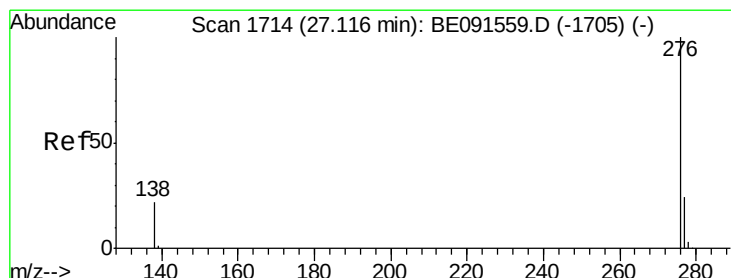
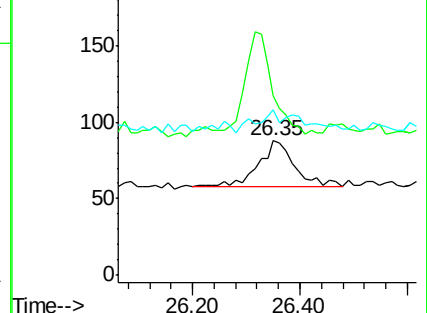
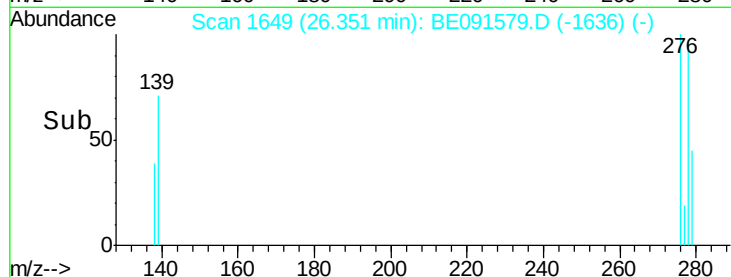
279 122.7 19.6 29.4#



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



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091579.D

Acq: 31 Mar 2016 11:38

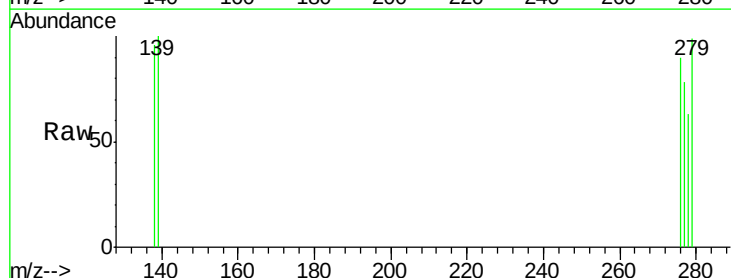
Tgt Ion:276 Resp: 136

Ion Ratio Lower Upper

276 100

277 87.2 19.4 29.2#

138 107.0 18.2 27.4#



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

