

Data Path : Z:\HPCHEM1\BNA E\DATA\BE051617\
 Data File : BE093051.D
 Acq On : 16 May 2017 13:27
 Operator : SJ/MA
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 18 00:54:27 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE051517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 15 13:35:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	1175	0.40	ng	0.00
7) Naphthalene-d8	10.52	136	5358	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	2528	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	7530	0.40	ng	0.00
27) Chrysene-d12	21.27	240	7875	0.40	ng	-0.02
34) Perylene-d12	23.69	264	6968	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.35	112	1362	0.38	ng	0.00
5) Phenol-d6	6.92	99	2130	0.44	ng	0.00
8) Nitrobenzene-d5	8.88	82	2098	0.45	ng	0.00
11) 2-Methylnaphthalene-d10	12.11	152	2838	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.87	330	407	0.54	ng	-0.01
15) 2-Fluorobiphenyl	13.01	172	3953	0.38	ng	0.00
25) Fluoranthene-d10	19.14	212	7607	0.38	ng	0.00
29) Terphenyl-d14	19.74	244	5588	0.38	ng	0.00

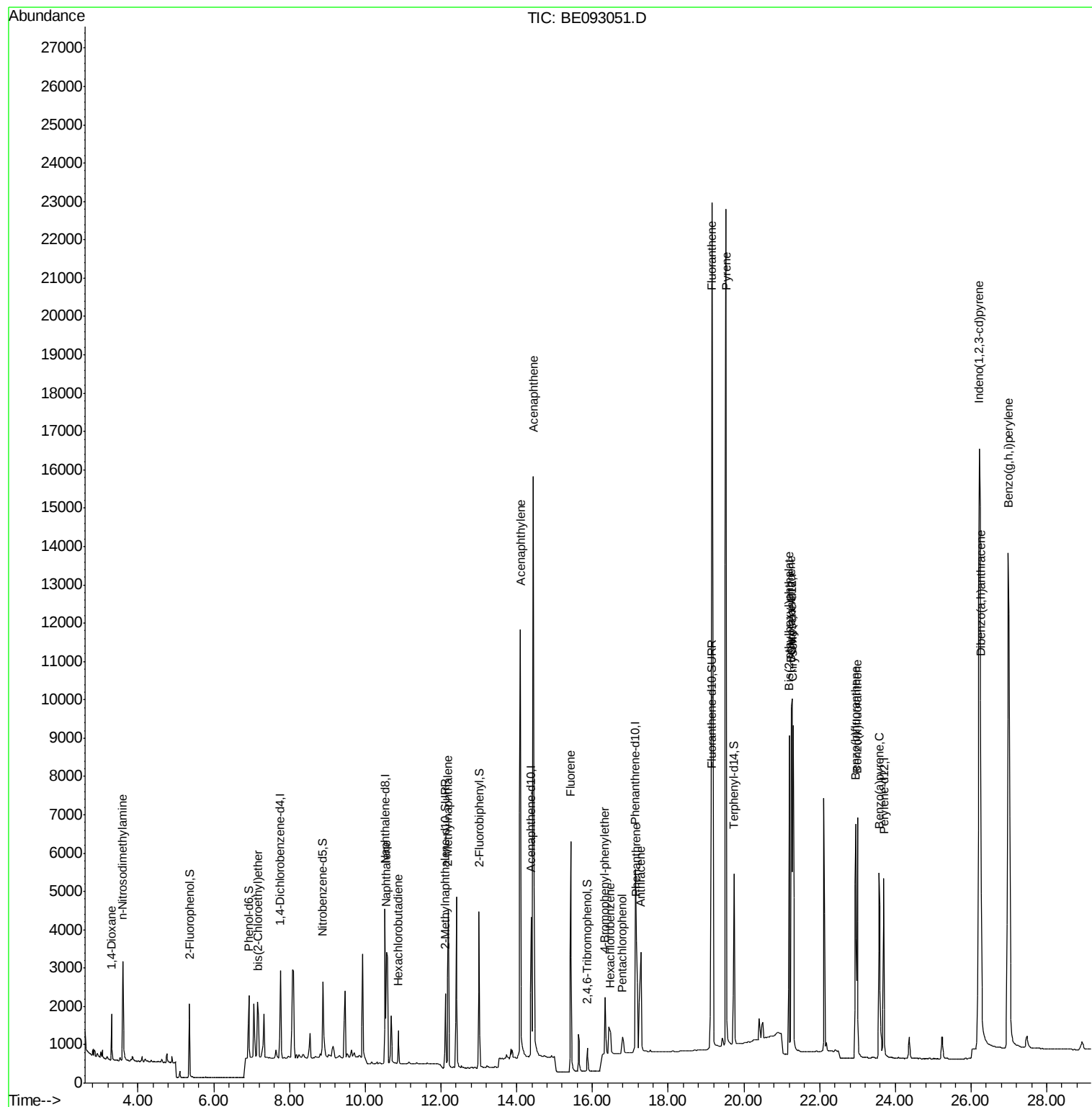
Target Compounds						Qvalue
2) 1,4-Dioxane	3.31	88	858	0.37	ng	98
3) n-Nitrosodimethylamine	3.60	42	966	0.45	ng	# 92
6) bis(2-Chloroethyl)ether	7.18	93	1600	0.40	ng	# 99
9) Naphthalene	10.56	128	5566	0.39	ng	93
10) Hexachlorobutadiene	10.87	225	706	0.38	ng	97
12) 2-Methylnaphthalene	12.19	142	3091	0.35	ng	93
16) Acenaphthylene	14.10	152	18275	0.41	ng	100
17) Acenaphthene	14.44	154	3062	0.38	ng	98
18) Fluorene	15.43	166	3883	0.40	ng	98
20) 4-Bromophenyl-phenylether	16.33	248	946	0.40	ng	# 13
21) Hexachlorobenzene	16.47	284	967	0.26	ng	# 100
22) Pentachlorophenol	16.79	266	525	0.60	ng	# 73
23) Phenanthrene	17.16	178	5716	0.35	ng	# 81
24) Anthracene	17.28	178	5172	0.32	ng	99
26) Fluoranthene	19.16	202	33516	0.36	ng	# 59
28) Pyrene	19.53	202	35985	0.38	ng	# 97
30) Benzo(a)anthracene	21.25	228	9125	0.43	ng	# 87
31) Chrysene	21.30	228	8766	0.38	ng	# 86
32) Bis(2-ethylhexyl)phthalate	21.20	149	8312	0.73	ng	95
33) Indeno(1,2,3-cd)pyrene	26.22	276	34794	0.42	ng	99
35) Benzo(b)fluoranthene	22.95	252	8681	0.39	ng	97
36) Benzo(k)fluoranthene	23.00	252	8011	0.36	ng	98
37) Benzo(a)pyrene	23.57	252	7756	0.38	ng	98
38) Dibenzo(a,h)anthracene	26.25	278	7677	0.41	ng	98
39) Benzo(g,h,i)perylene	26.99	276	31386	0.38	ng	98

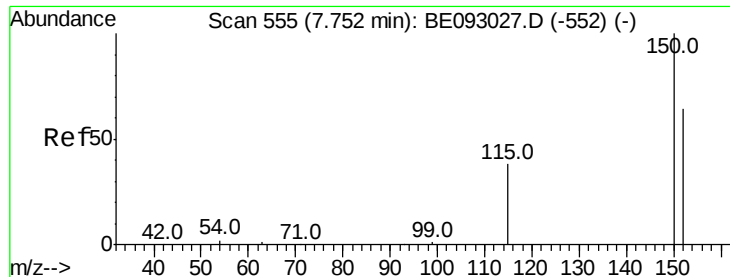
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.75 min Scan# 555

Delta R.T. 0.00 min

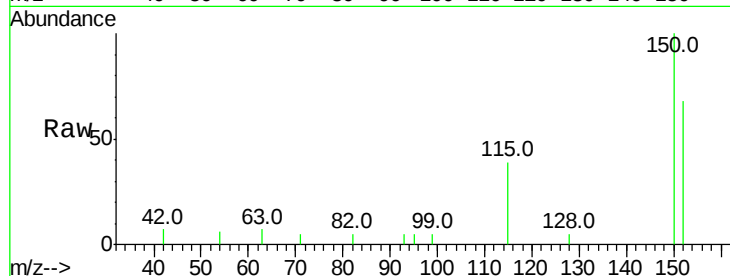
Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampled :



Tot Ion:152 Resp: 1175

Ion Ratio Lower Upper

152 100

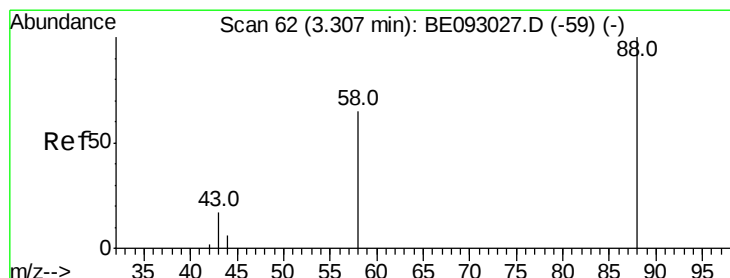
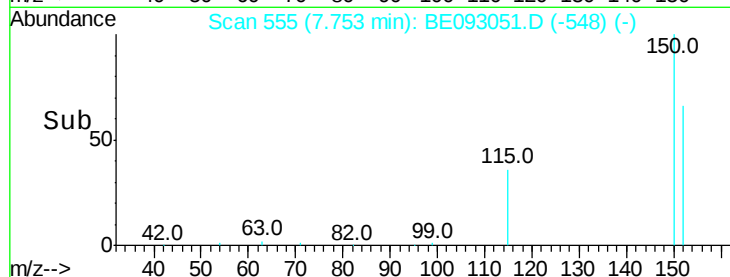
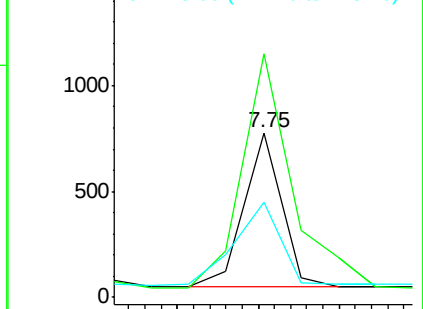
150 147.9 125.1 187.7

115 58.2 55.7 83.5

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: 0.37 ng

RT: 3.31 min Scan# 62

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Tgt Ion: 88 Resp: 858

Ion Ratio Lower Upper

88 100

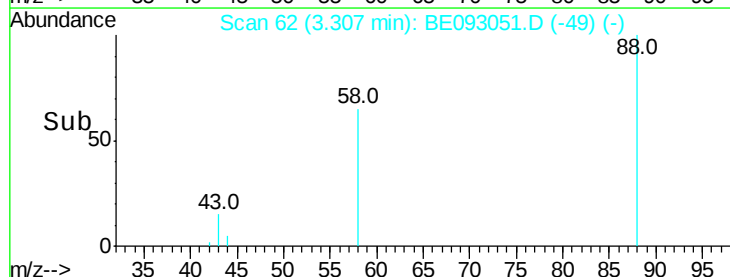
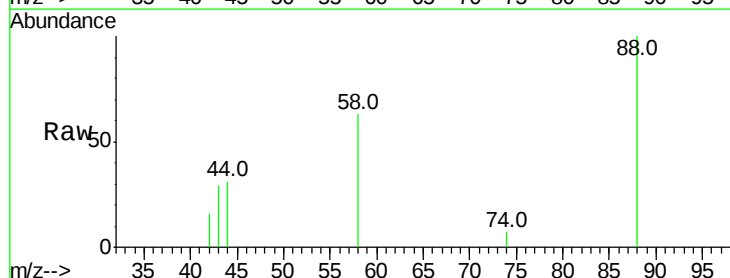
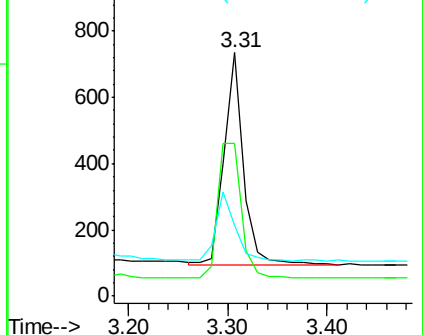
58 77.4 62.2 93.4

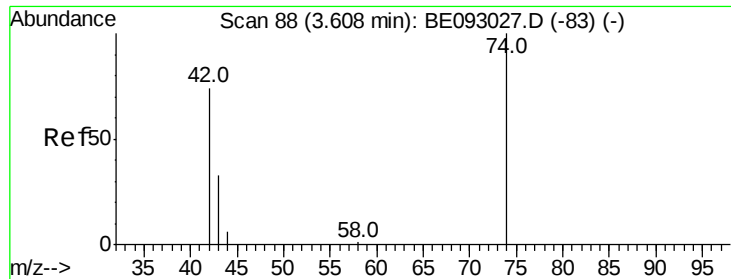
43 32.5 23.2 34.8

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: 0.45 ng

RT: 3.60 min Scan# 87

Delta R.T. -0.01 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

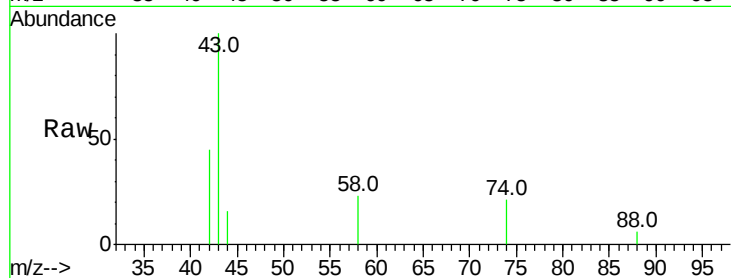
Tot Ion: 42 Resp: 966

Ion Ratio Lower Upper

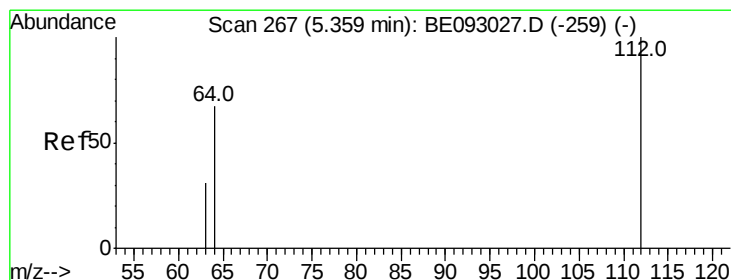
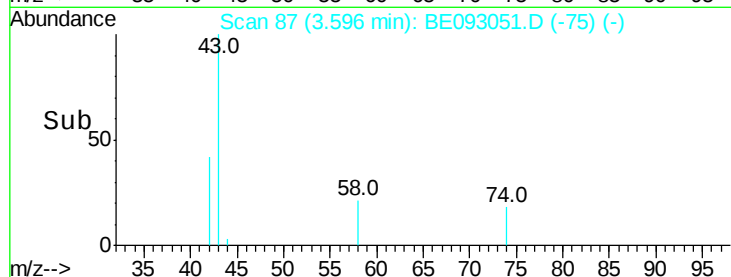
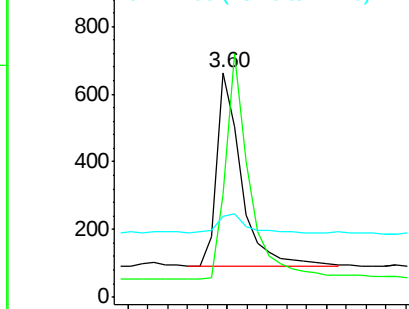
42 100

74 114.6 99.1 148.7

44 11.6 7.4 11.2#



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: 0.38 ng

RT: 5.35 min Scan# 266

Delta R.T. -0.01 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

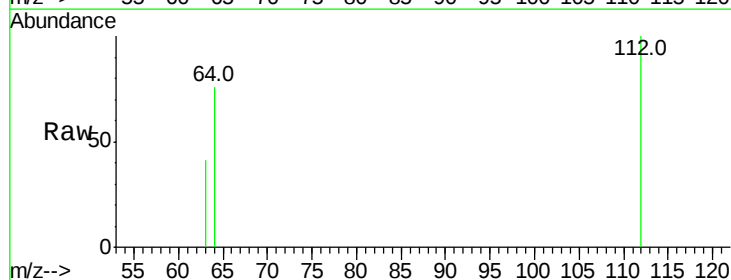
Tgt Ion: 112 Resp: 1362

Ion Ratio Lower Upper

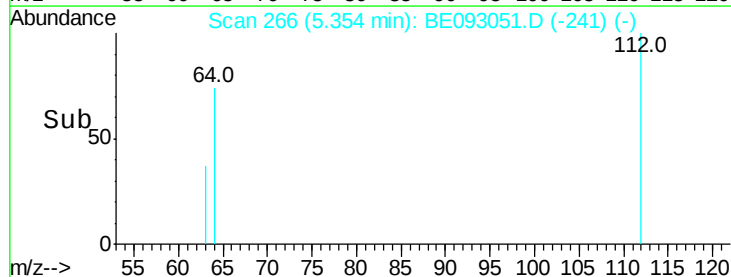
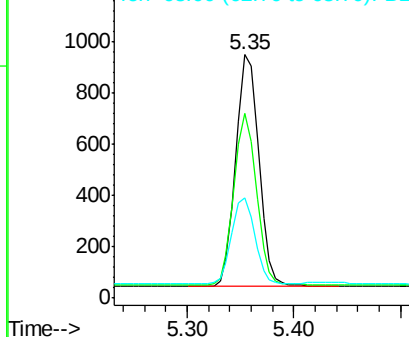
112 100

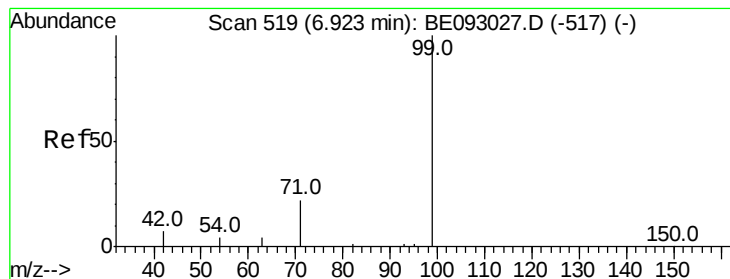
64 72.7 56.4 84.6

63 36.8 29.3 43.9



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.44 ng

RT: 6.92 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

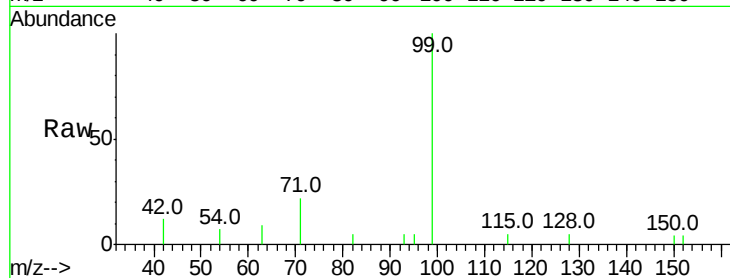
Tot Ion: 99 Resp: 2130

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

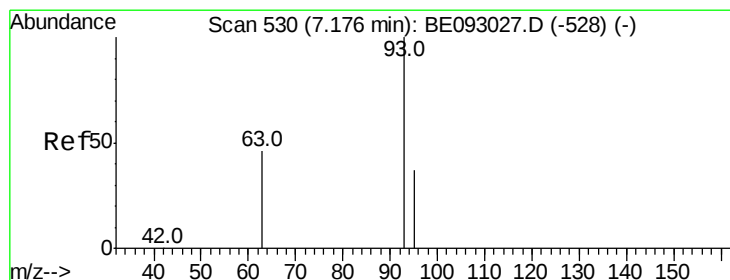
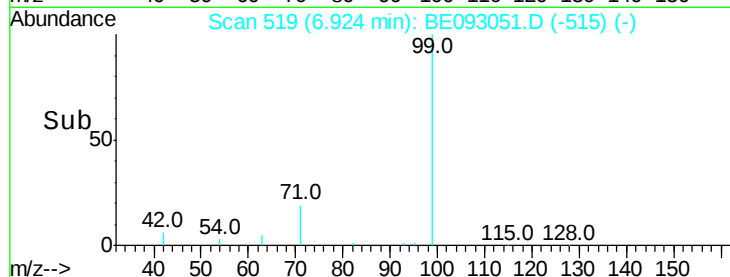
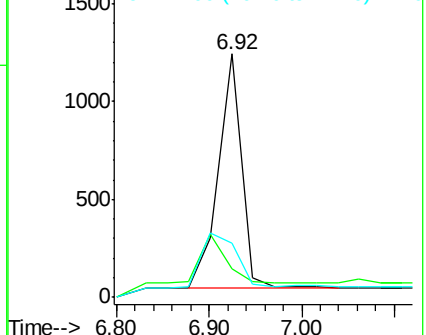
71 0.0 0.0 0.0



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: 0.40 ng

RT: 7.18 min Scan# 530

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

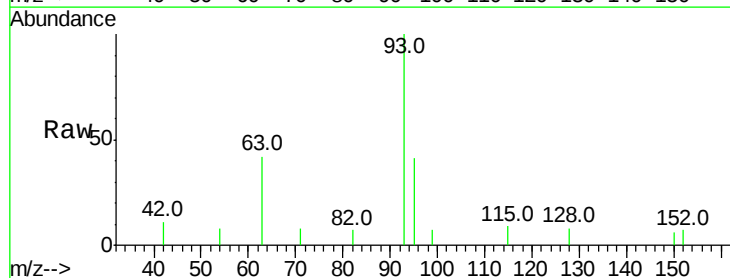
Tgt Ion: 93 Resp: 1600

Ion Ratio Lower Upper

93 100

63 0.0 0.0 0.0

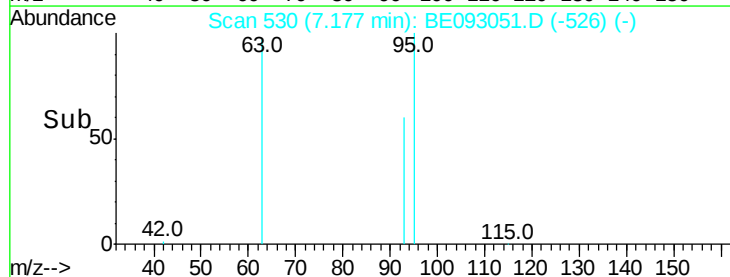
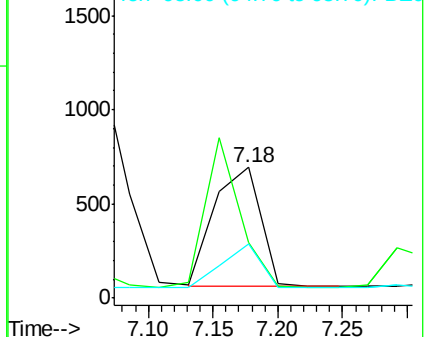
95 31.0 25.4 38.0

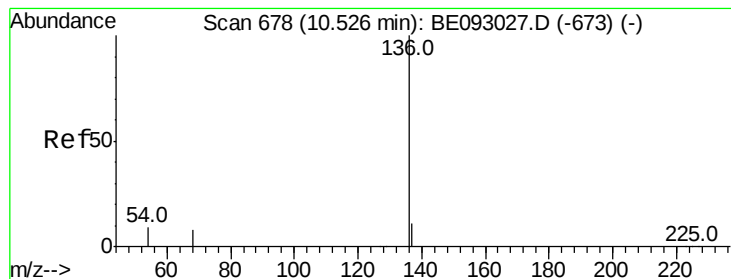


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.52 min Scan# 678

Delta R.T. -0.00 min

Lab File: BE093051.D

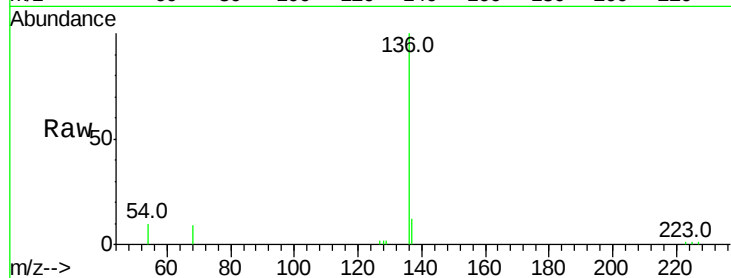
Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136	Resp:	5358
Ion Ratio	Lower	Upper
136	100	
137	11.7	9.8 14.8
54	9.9	10.3 15.5#
68	9.1	9.0 13.4

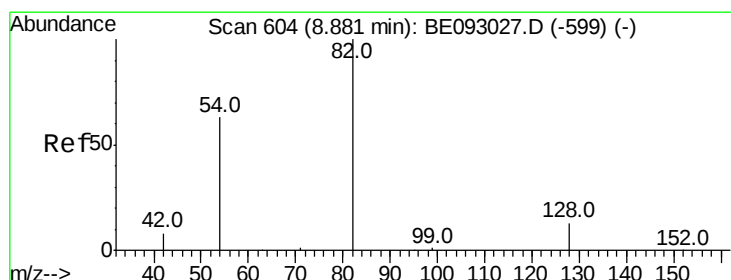
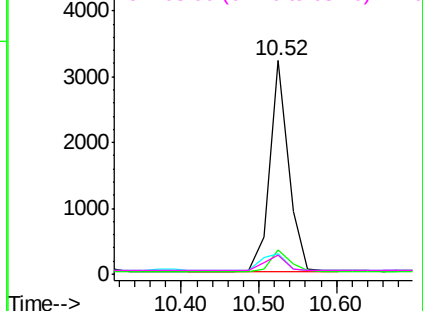
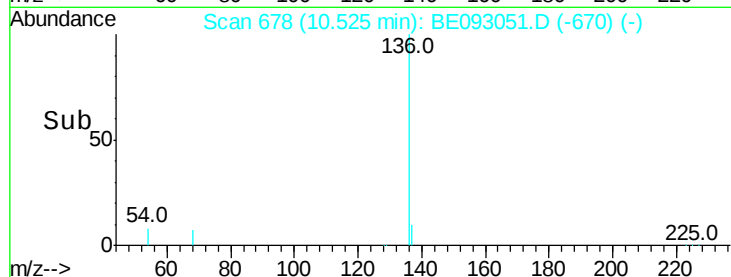


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.45 ng

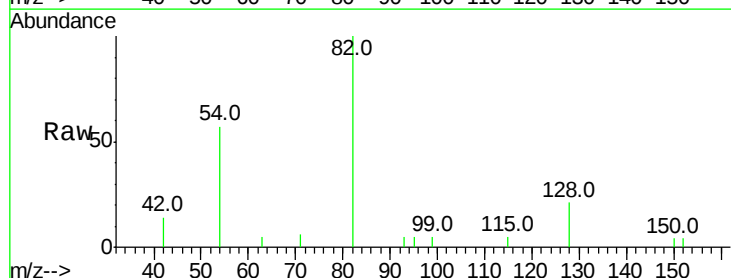
RT: 8.88 min Scan# 604

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

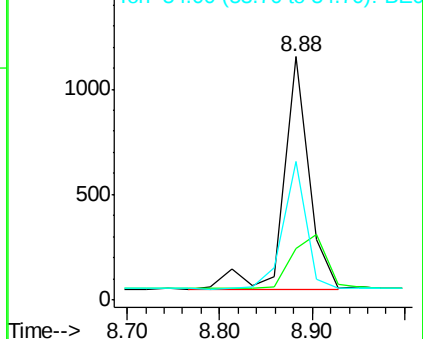
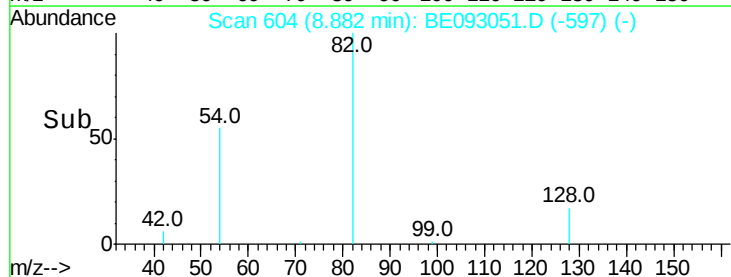
Tgt Ion: 82	Resp:	2098
Ion Ratio	Lower	Upper
82	100	
128	21.1	17.0 25.4
54	57.1	53.8 80.6

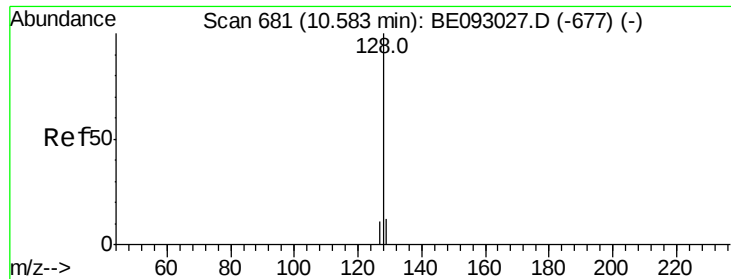


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.39 ng

RT: 10.56 min Scan# 680

Delta R.T. -0.02 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

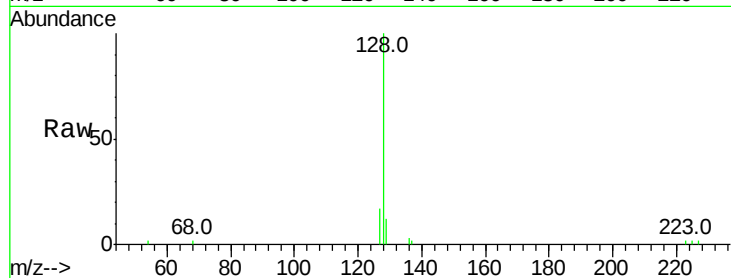
Tot Ion:128 Resp: 5566

Ion Ratio Lower Upper

128 100

129 11.5 11.4 17.0

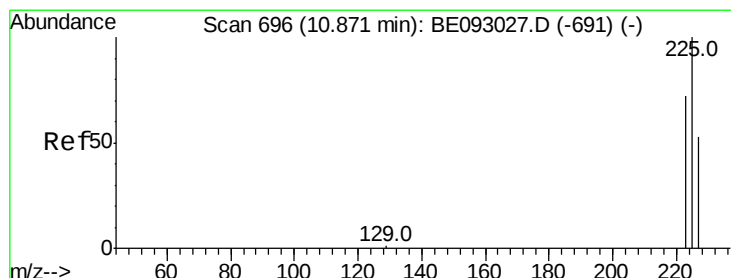
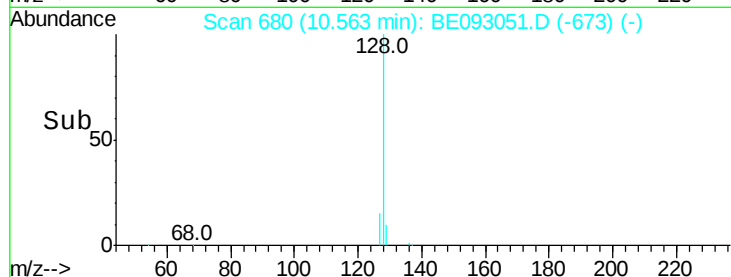
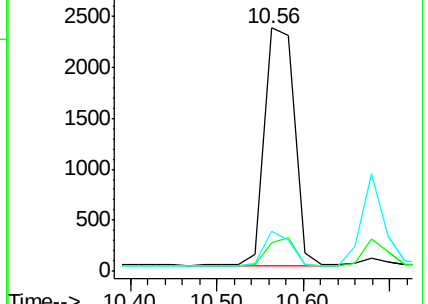
127 16.7 11.2 16.8



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



#10

Hexachlorobutadiene

Concen: 0.38 ng

RT: 10.87 min Scan# 696

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

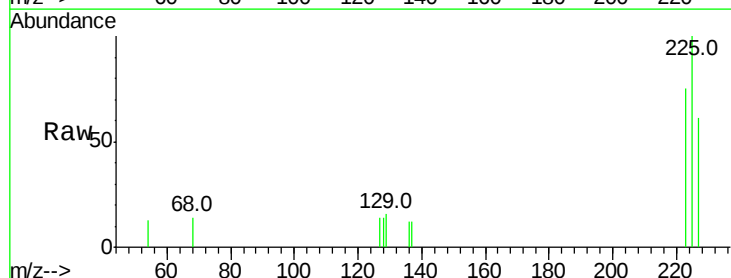
Tgt Ion:225 Resp: 706

Ion Ratio Lower Upper

225 100

223 65.2 49.7 74.5

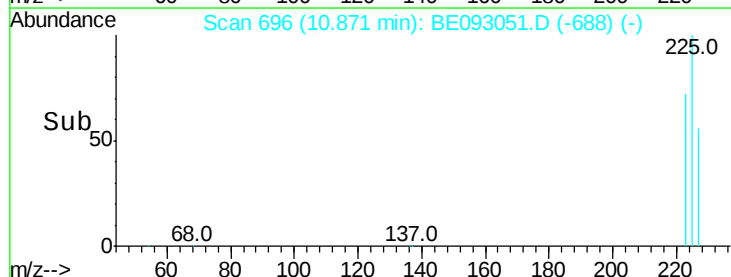
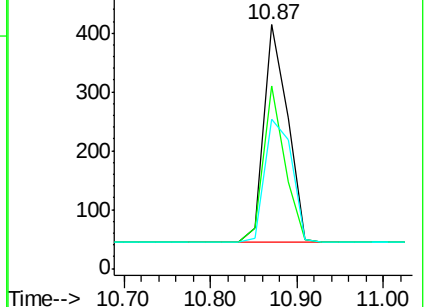
227 64.9 50.3 75.5



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





#11

2-Methylnaphthalene-d10

Concen: 0.36 ng

RT: 12.11 min Scan# 760

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

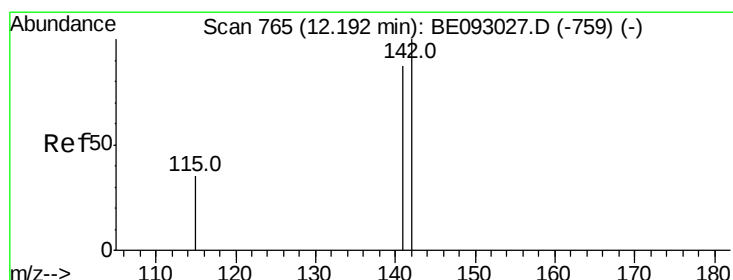
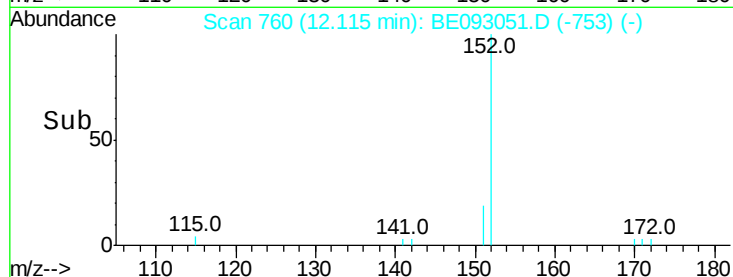
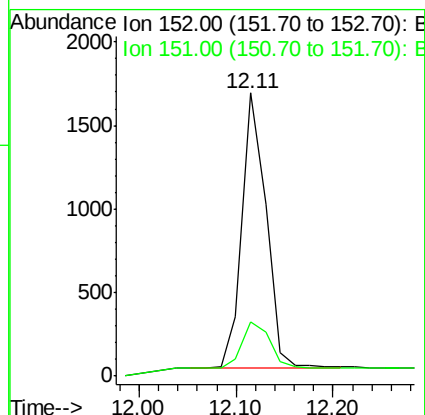
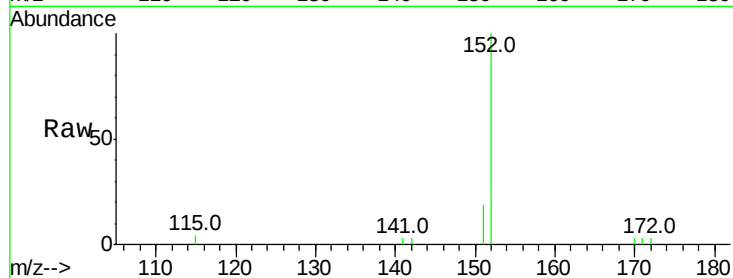
ClientSampleId :

Tot Ion:152 Resp: 2838

Ion Ratio Lower Upper

152 100

151 19.5 15.1 22.7



#12

2-Methylnaphthalene

Concen: 0.35 ng

RT: 12.19 min Scan# 765

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

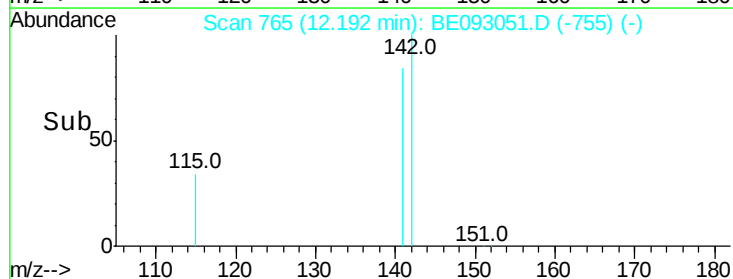
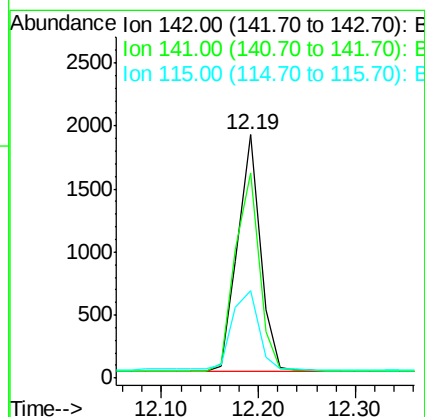
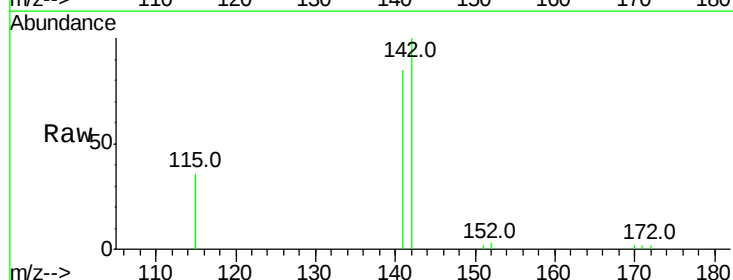
Tgt Ion:142 Resp: 3091

Ion Ratio Lower Upper

142 100

141 84.5 72.6 108.8

115 36.1 32.2 48.2





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.39 min Scan# 901

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

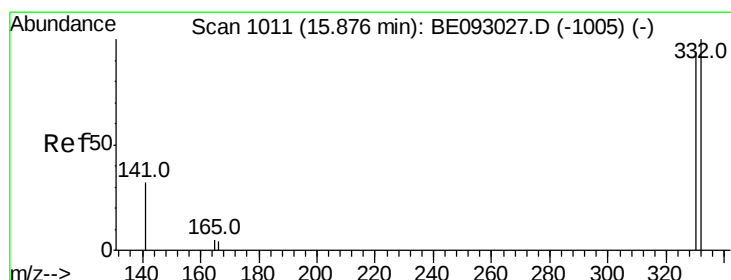
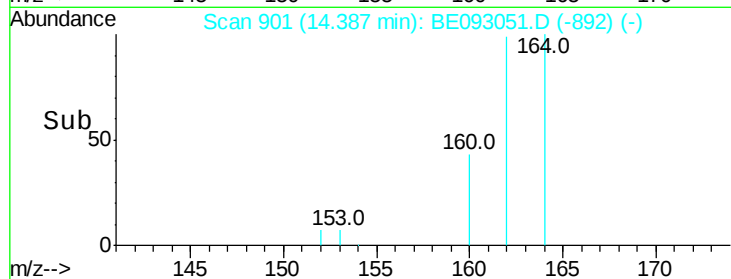
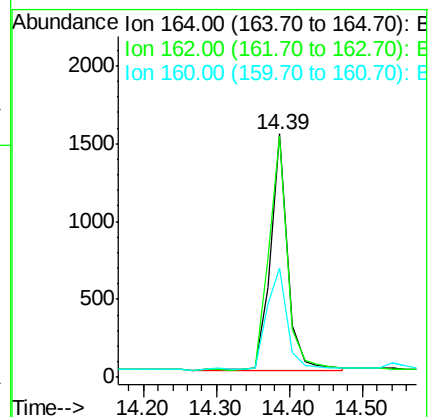
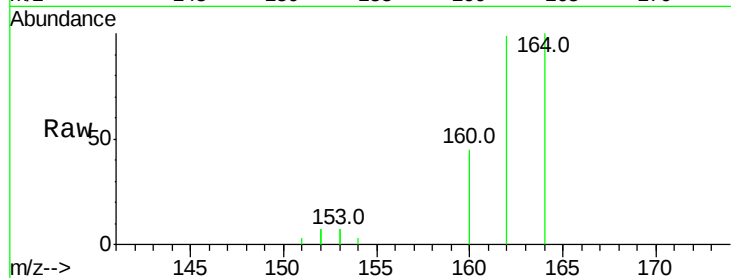
Tot Ion:164 Resp: 2528

Ion Ratio Lower Upper

164 100

162 98.8 84.6 127.0

160 44.8 41.8 62.6



#14

2,4,6-Tribromophenol

Concen: 0.54 ng

RT: 15.87 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

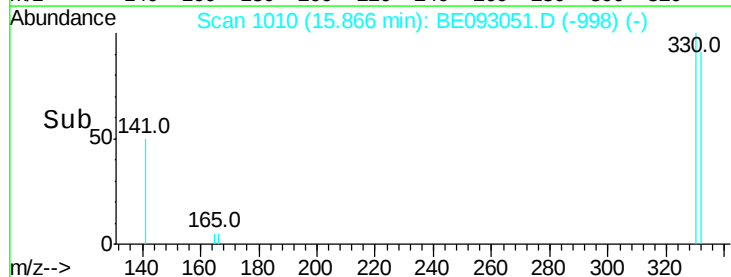
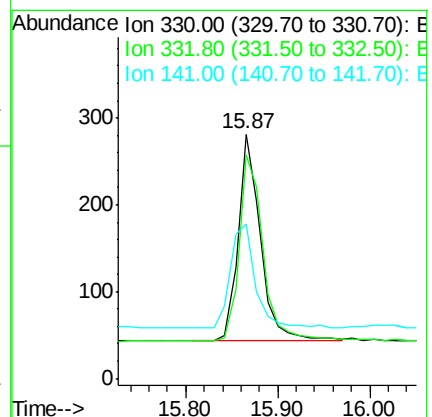
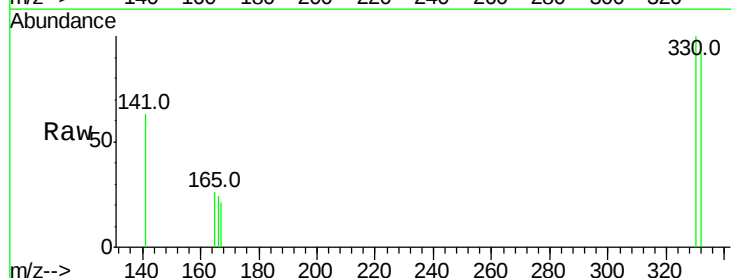
Tgt Ion:330 Resp: 407

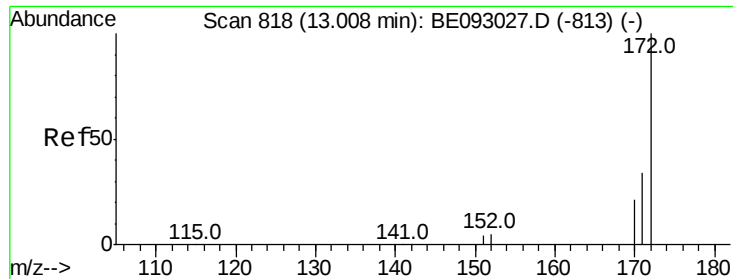
Ion Ratio Lower Upper

330 100

332 95.8 77.7 116.5

141 53.8 56.2 84.4#

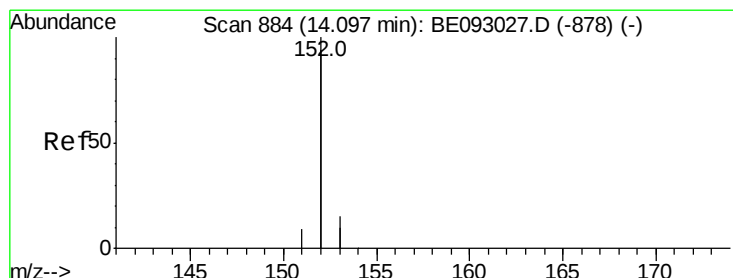
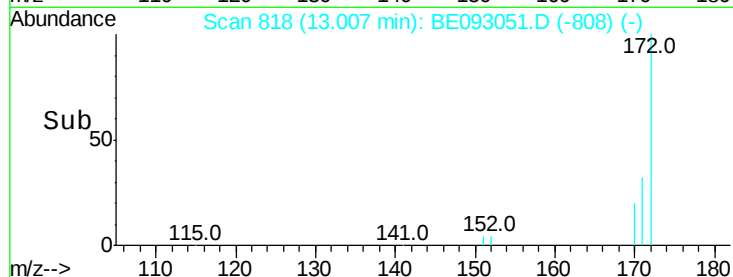
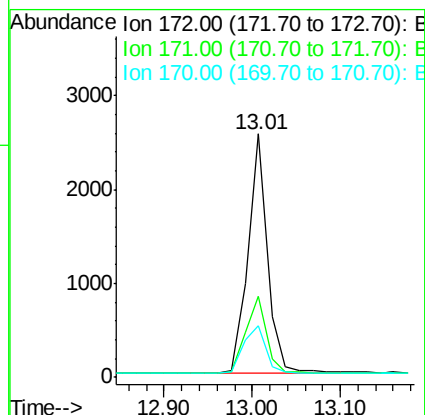
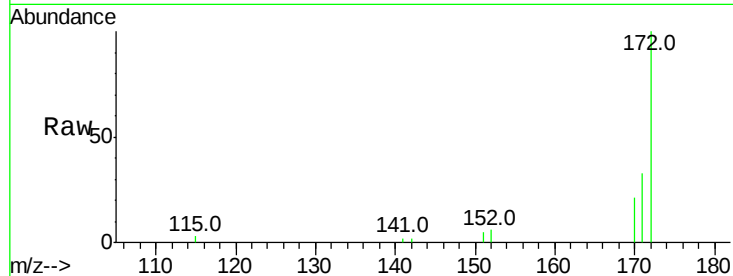




#15
 2-Fluorobiphenyl
 Concen: 0.38 ng
 RT: 13.01 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BE093051.D
 Acq: 16 May 2017 13:27

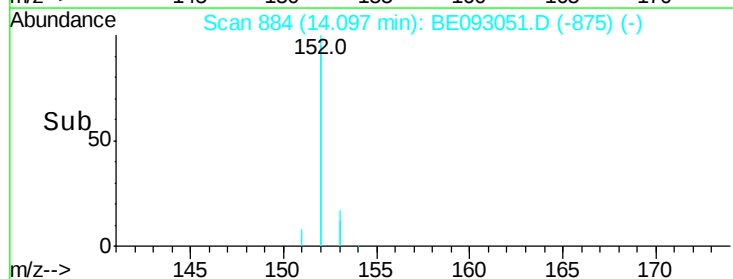
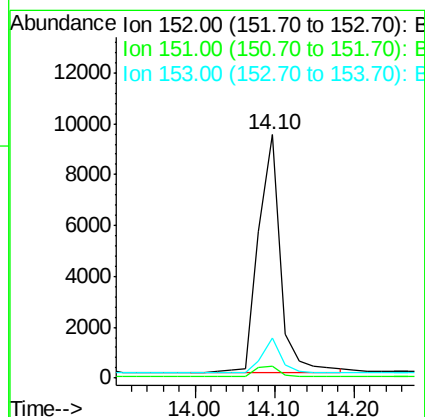
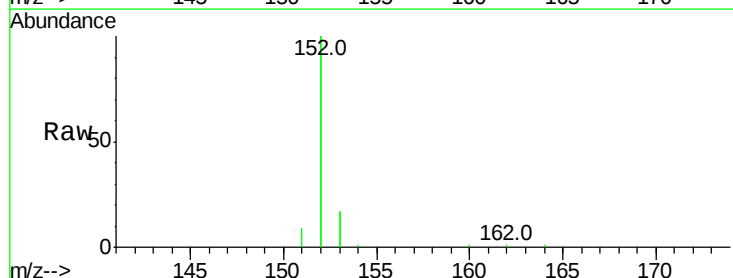
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:172 Resp: 3953
 Ion Ratio Lower Upper
 172 100
 171 33.4 29.8 44.6
 170 21.2 20.7 31.1



#16
 Acenaphthylene
 Concen: 0.41 ng
 RT: 14.10 min Scan# 884
 Delta R.T. 0.00 min
 Lab File: BE093051.D
 Acq: 16 May 2017 13:27

Tgt Ion:152 Resp: 18275
 Ion Ratio Lower Upper
 152 100
 151 5.0 4.0 6.0
 153 13.1 10.3 15.5

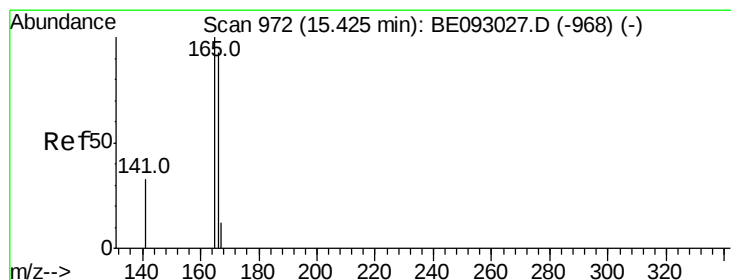
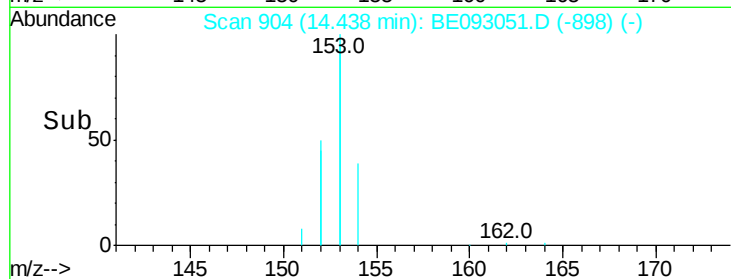
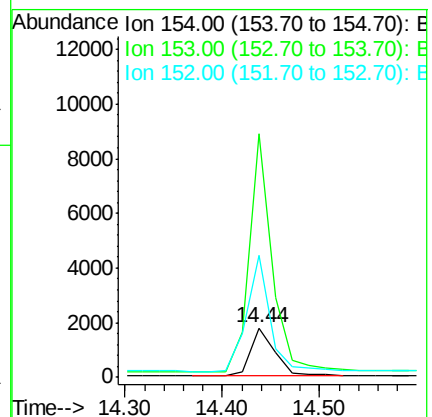
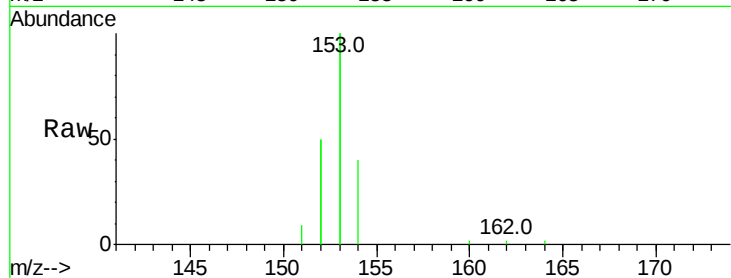




#17
Acenaphthene
Concen: 0.38 ng
RT: 14.44 min Scan# 904
Delta R.T. 0.00 min
Lab File: BE093051.D
Acq: 16 May 2017 13:27

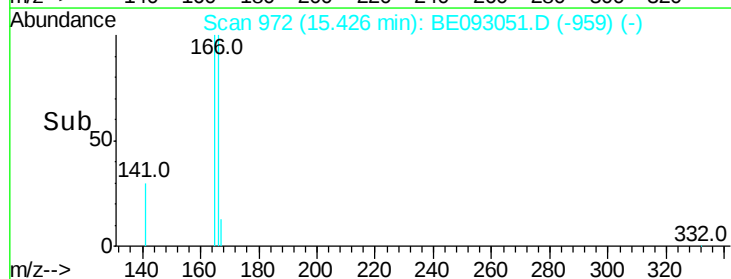
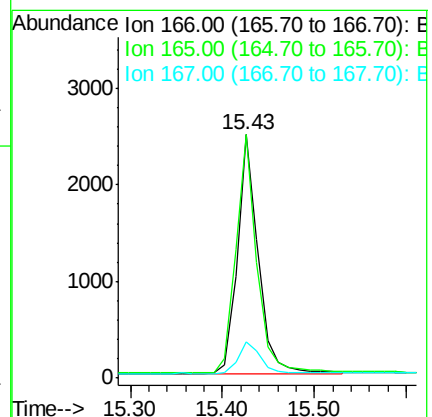
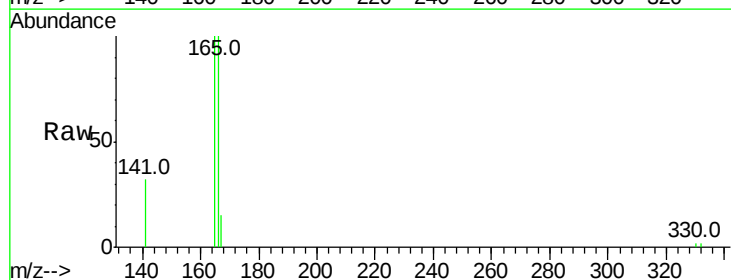
Instrument :
BNA_E
ClientSampleId :

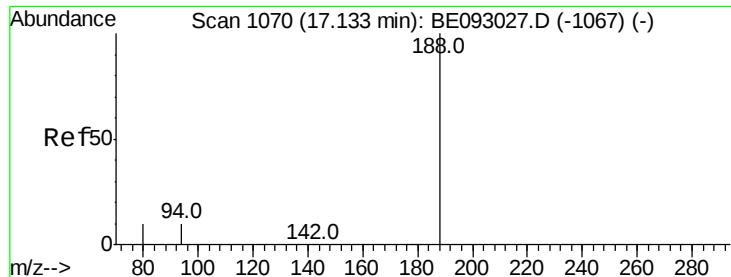
Tot Ion:154 Resp: 3062
Ion Ratio Lower Upper
154 100
153 456.7 367.8 551.6
152 229.6 188.2 282.2



#18
Fluorene
Concen: 0.40 ng
RT: 15.43 min Scan# 972
Delta R.T. 0.00 min
Lab File: BE093051.D
Acq: 16 May 2017 13:27

Tgt Ion:166 Resp: 3883
Ion Ratio Lower Upper
166 100
165 100.0 78.6 117.8
167 14.2 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampled :

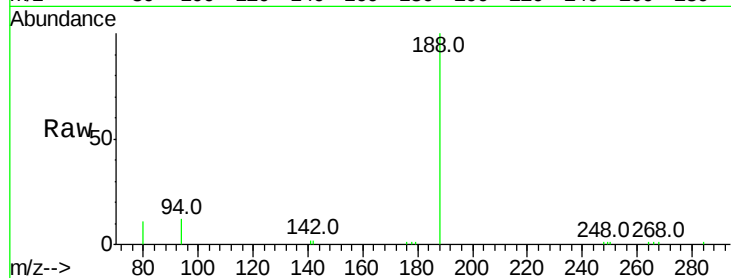
Tot Ion:188 Resp: 7530

Ion Ratio Lower Upper

188 100

94 11.5 11.3 16.9

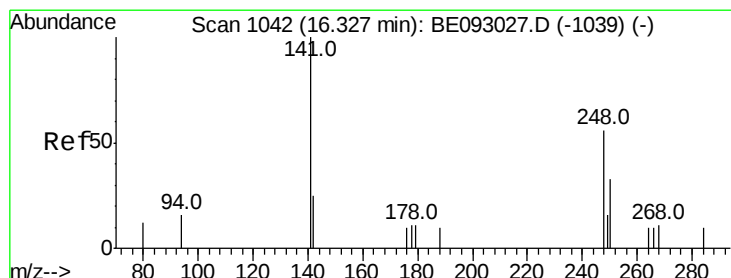
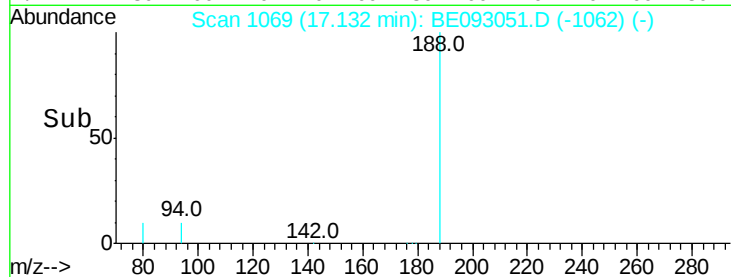
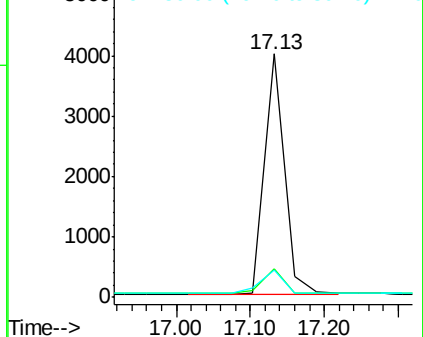
80 11.3 11.7 17.5#



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: 0.40 ng

RT: 16.33 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

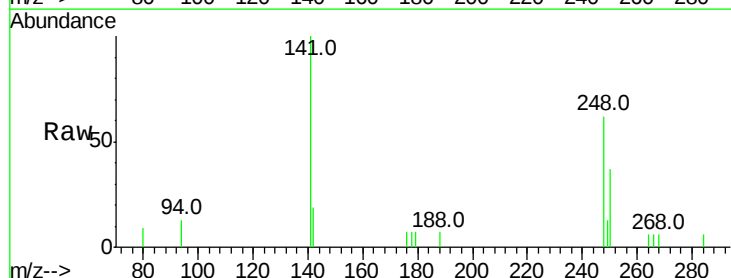
Tgt Ion:248 Resp: 946

Ion Ratio Lower Upper

248 100

250 60.0 100.0 150.0#

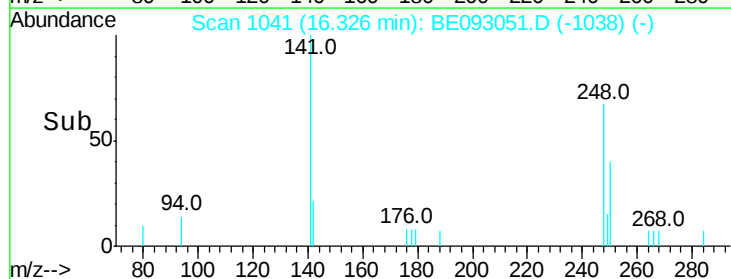
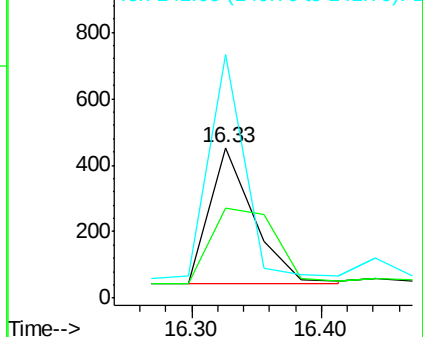
141 162.2 40.0 60.0#



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: 0.26 ng

RT: 16.47 min Scan# 1046

Delta R.T. -0.00 min

Lab File: BE093051.D

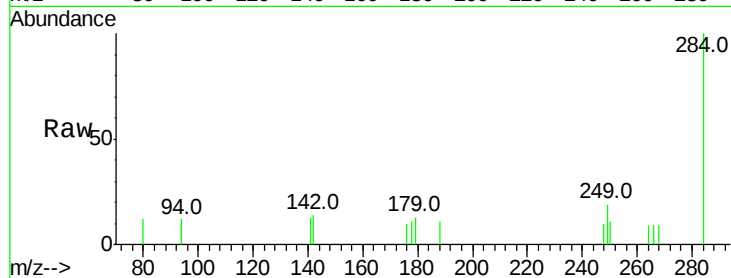
Acq: 16 May 2017 13:27

Instrument :

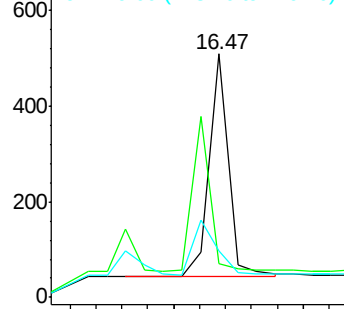
BNA_E

ClientSampleId :

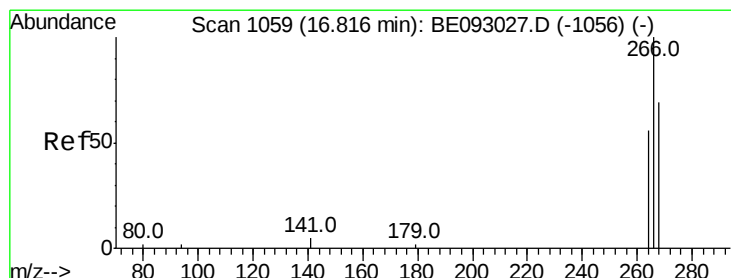
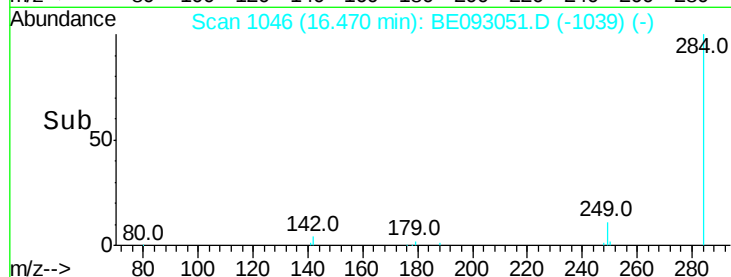
Tot Ion:	284	Resp:	967
Ion	Ratio	Lower	Upper
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0



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



Time-->



#22

Pentachlorophenol

Concen: 0.60 ng

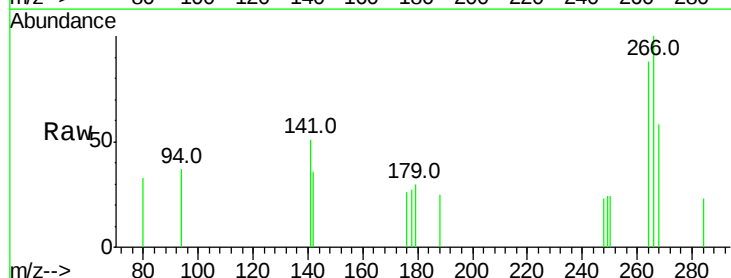
RT: 16.79 min Scan# 1057

Delta R.T. -0.03 min

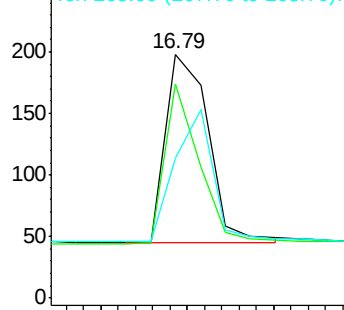
Lab File: BE093051.D

Acq: 16 May 2017 13:27

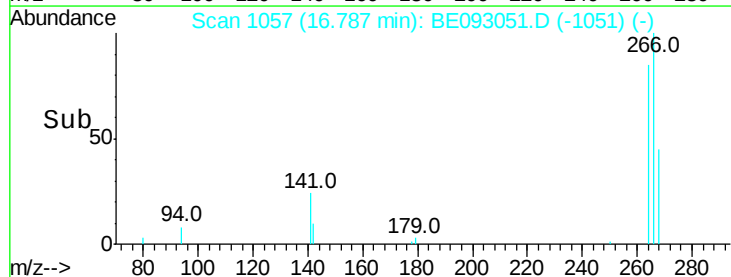
Tgt Ion:	266	Resp:	525
Ion	Ratio	Lower	Upper
266	100		
264	87.9	58.2	87.2#
268	57.6	71.9	107.9#

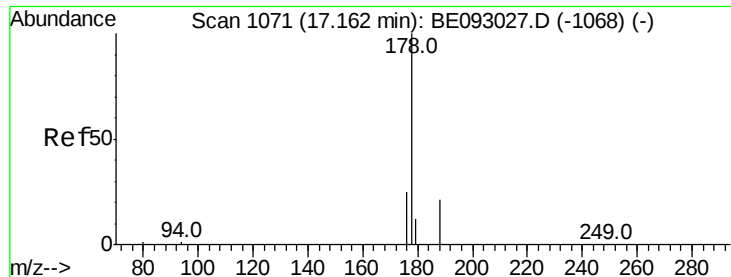


Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E



Time-->





#23

Phenanthrene

Concen: 0.35 ng

RT: 17.16 min Scan# 1070

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampled :

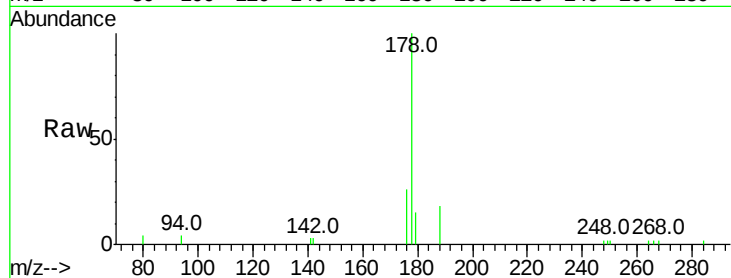
Tot Ion:178 Resp: 5716

Ion Ratio Lower Upper

178 100

176 20.2 15.0 22.4

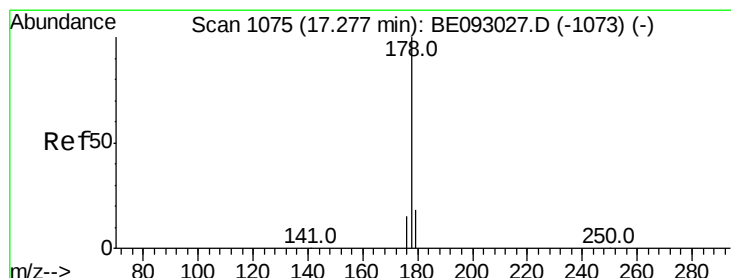
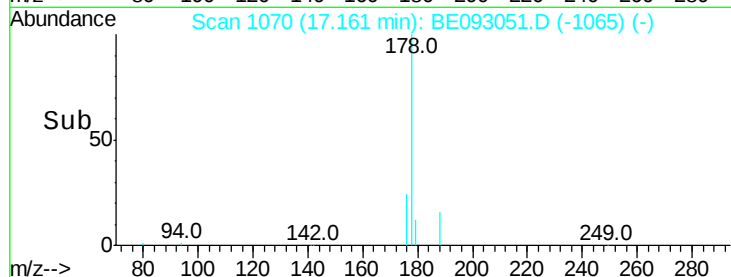
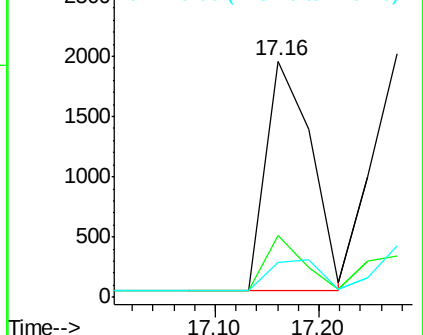
179 0.0 12.7 19.1#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.32 ng

RT: 17.28 min Scan# 1074

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

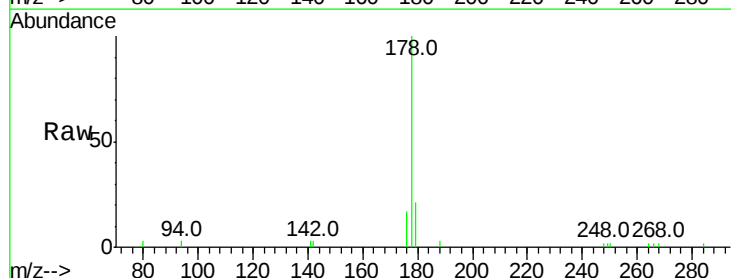
Tgt Ion:178 Resp: 5172

Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

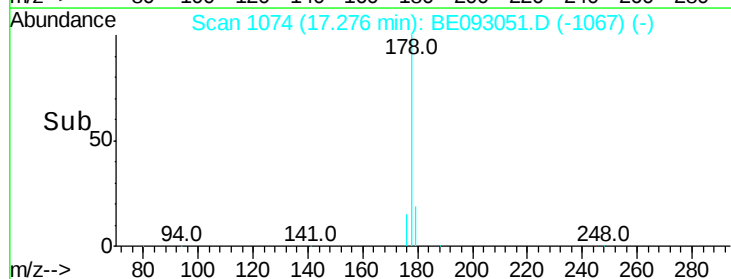
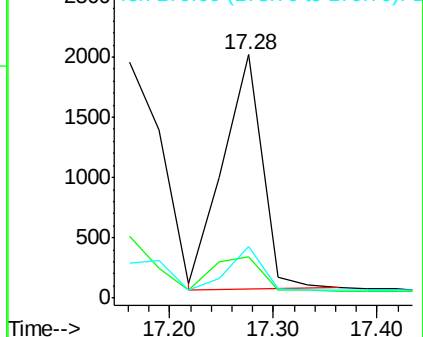
179 16.0 12.0 18.0

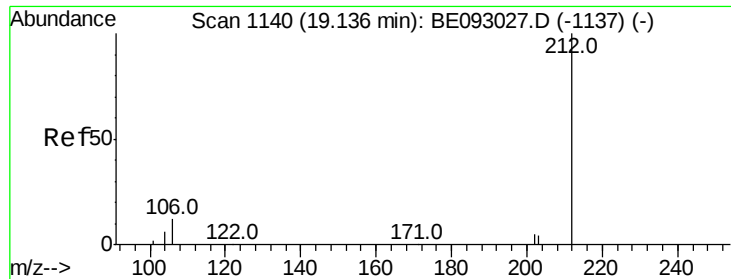


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.38 ng

RT: 19.14 min Scan# 1139

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

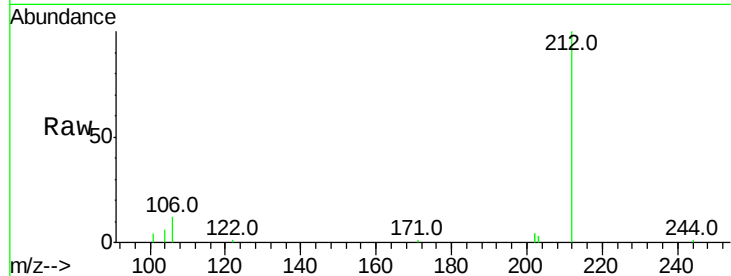
Tot Ion:212 Resp: 7607

Ion Ratio Lower Upper

212 100

106 15.6 0.0 0.0#

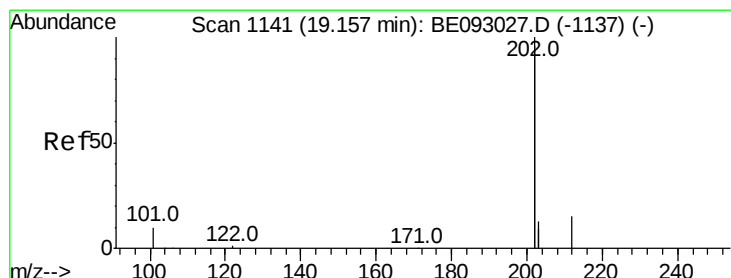
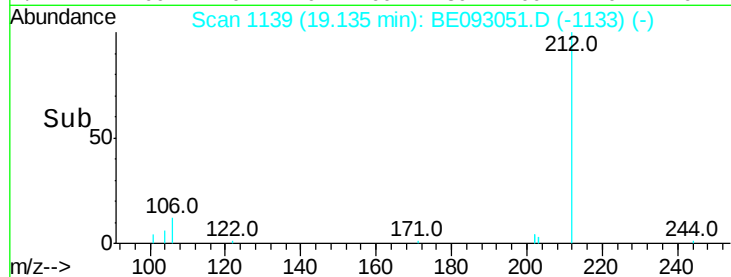
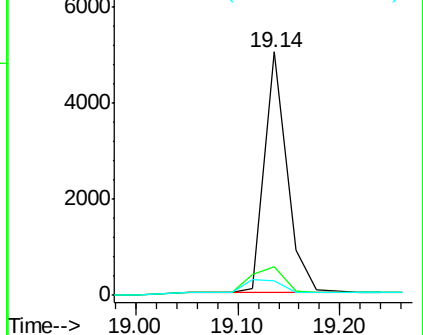
104 0.0 0.0 0.0



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.36 ng

RT: 19.16 min Scan# 1140

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

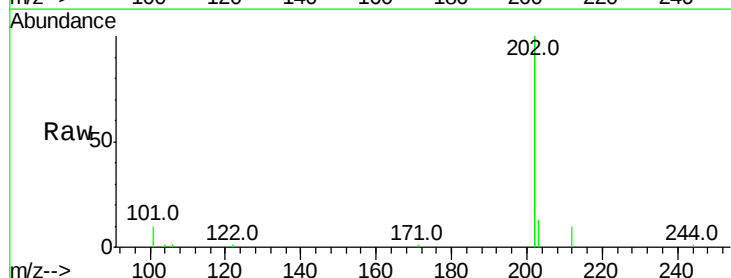
Tgt Ion:202 Resp: 33516

Ion Ratio Lower Upper

202 100

101 3.9 0.0 0.0#

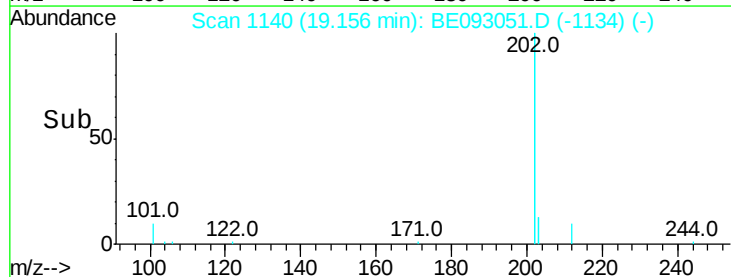
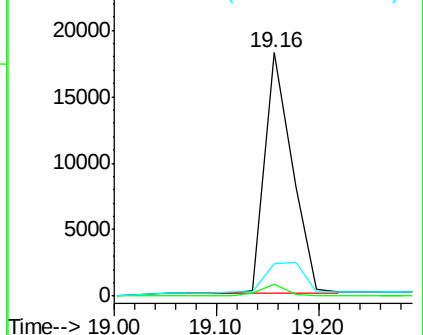
203 0.0 14.4 21.6#

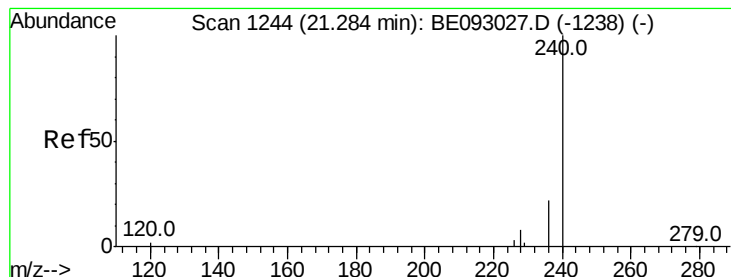


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.27 min Scan# 1242

Delta R.T. -0.02 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

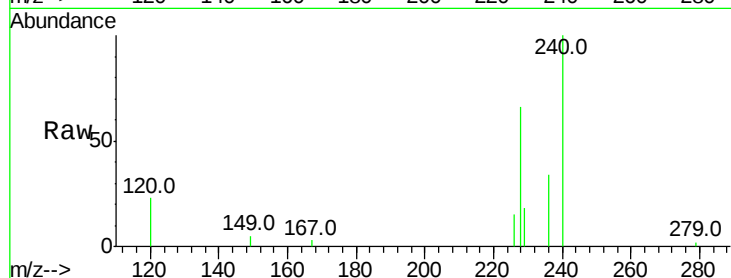
Tot Ion:240 Resp: 7875

Ion Ratio Lower Upper

240 100

120 22.6 4.6 7.0#

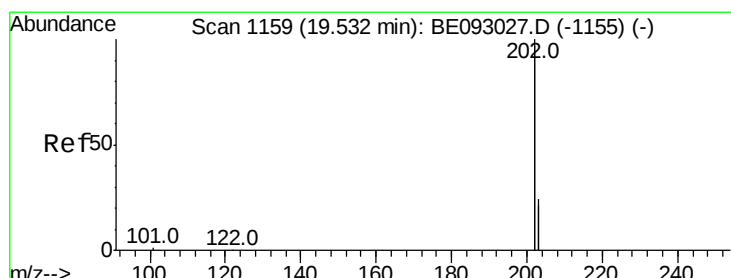
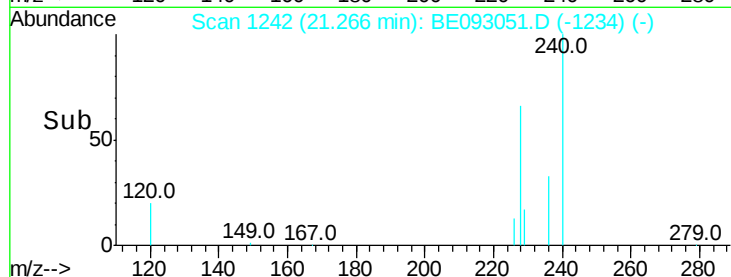
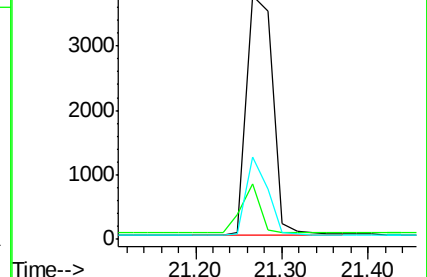
236 34.0 20.8 31.2#



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



#28

Pyrene

Concen: 0.38 ng

RT: 19.53 min Scan# 1158

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

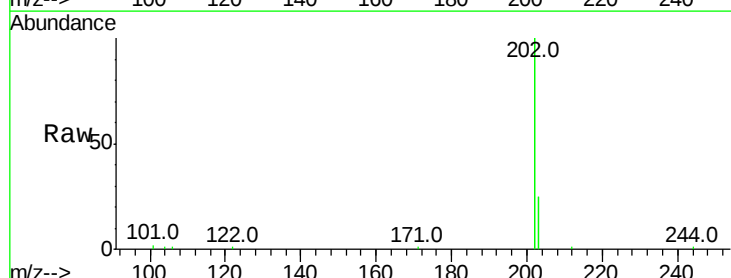
Tgt Ion:202 Resp: 35985

Ion Ratio Lower Upper

202 100

200 0.0 0.0 0.0

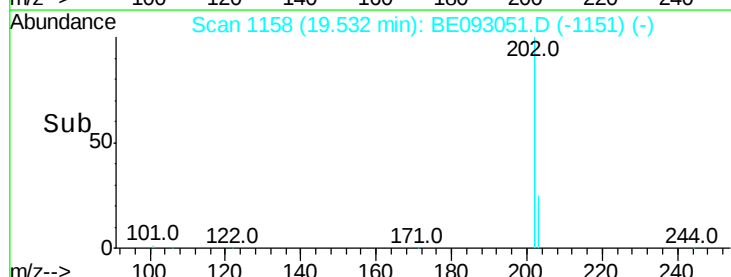
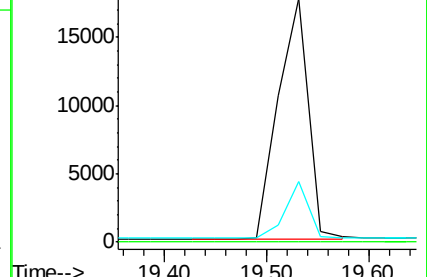
203 18.5 13.7 20.5

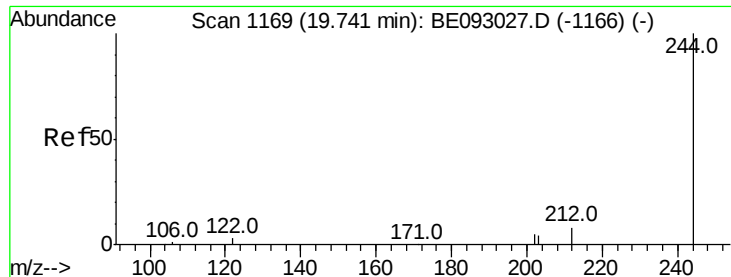


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.38 ng

RT: 19.74 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampled :

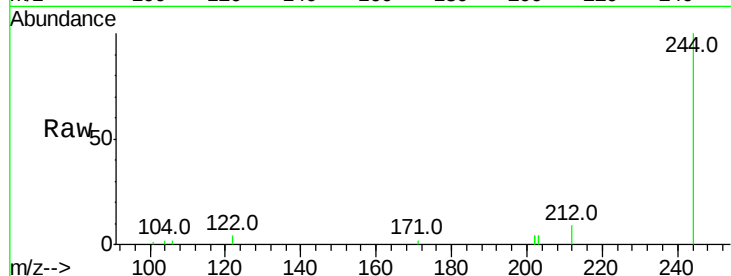
Tot Ion:244 Resp: 5588

Ion Ratio Lower Upper

244 100

212 9.1 10.6 16.0#

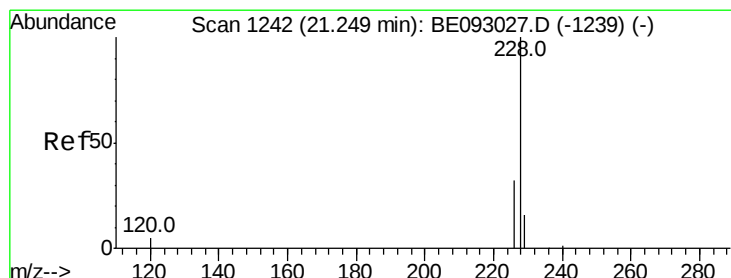
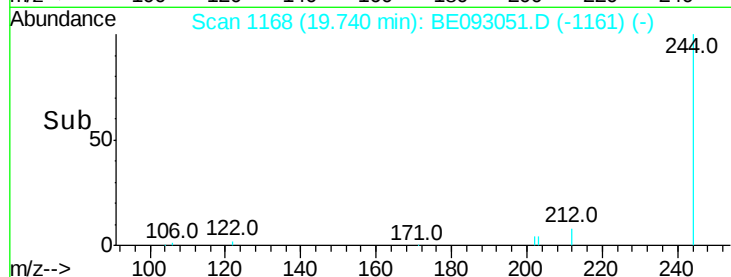
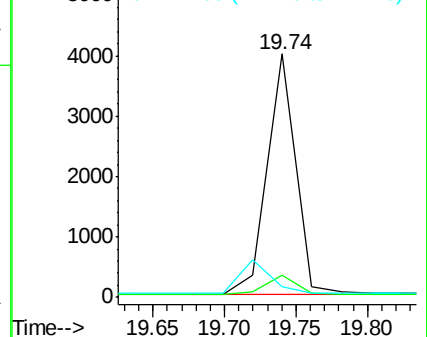
122 4.1 15.4 23.0#



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



#30

Benzo(a)anthracene

Concen: 0.43 ng

RT: 21.25 min Scan# 1241

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

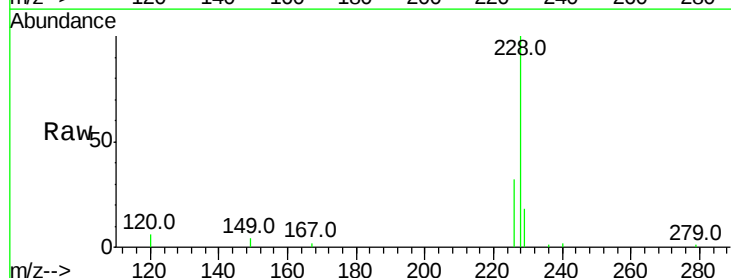
Tgt Ion:228 Resp: 9125

Ion Ratio Lower Upper

228 100

226 31.6 19.7 29.5#

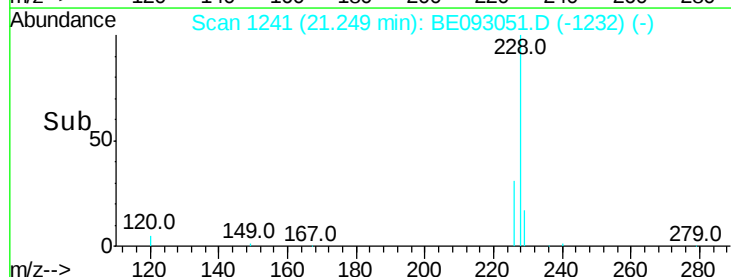
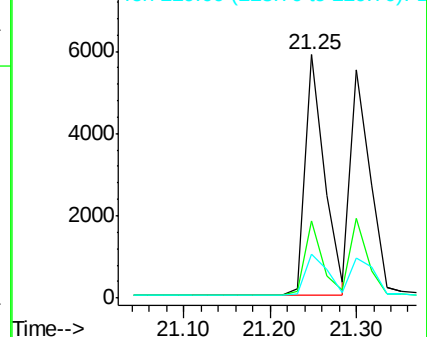
229 17.8 19.2 28.8#

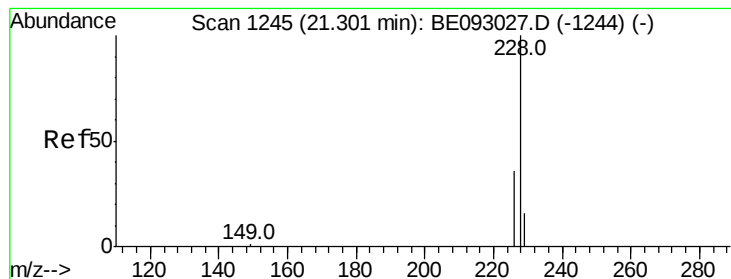


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.38 ng

RT: 21.30 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

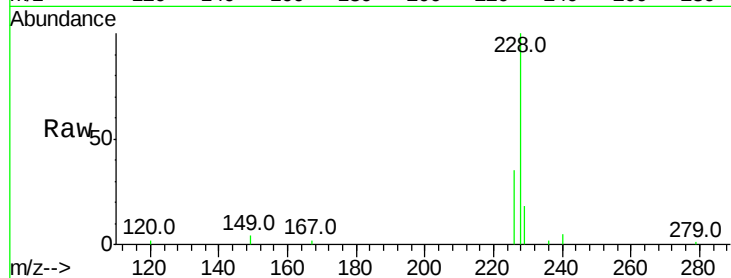
Tot Ion:228 Resp: 8766

Ion Ratio Lower Upper

228 100

226 35.2 21.5 32.3#

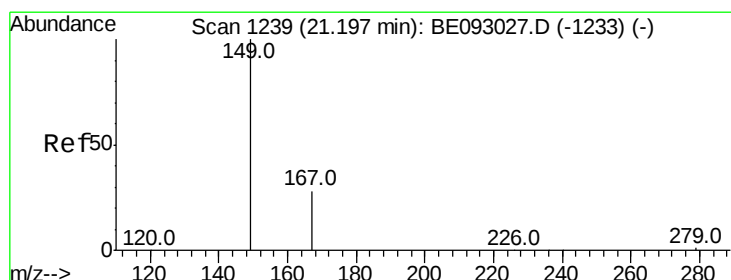
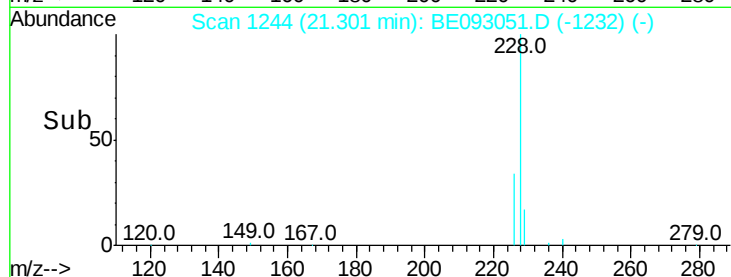
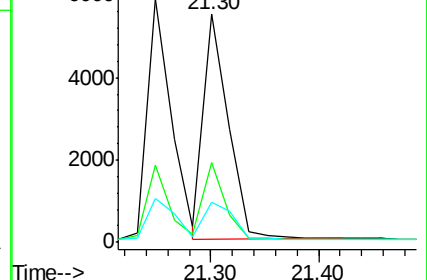
229 17.8 18.6 28.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.73 ng

RT: 21.20 min Scan# 1238

Delta R.T. -0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

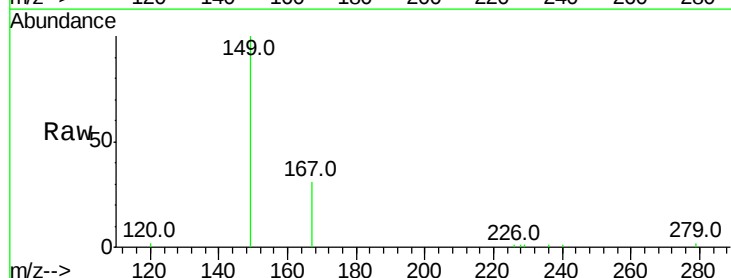
Tgt Ion:149 Resp: 8312

Ion Ratio Lower Upper

149 100

167 27.9 20.1 30.1

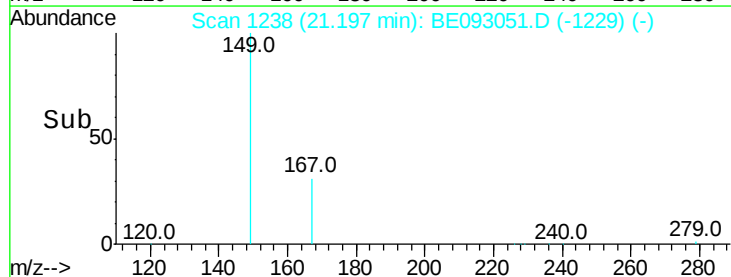
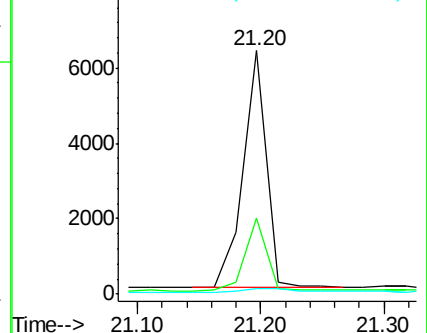
279 2.5 2.2 3.4

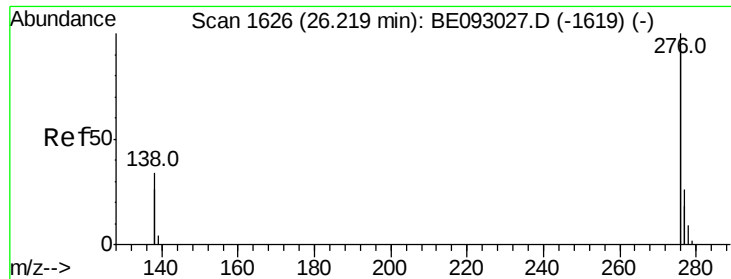


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

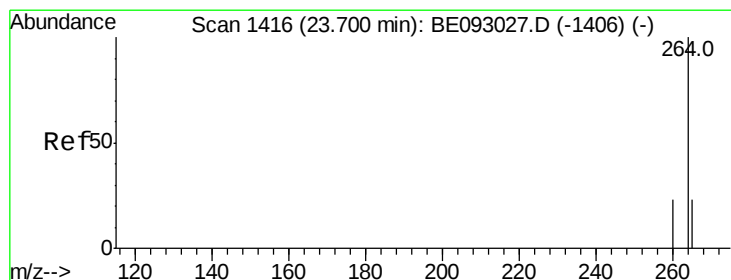
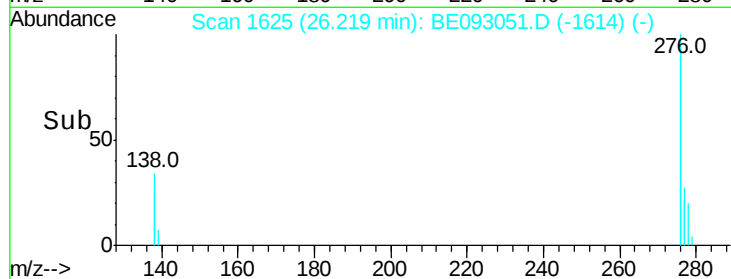
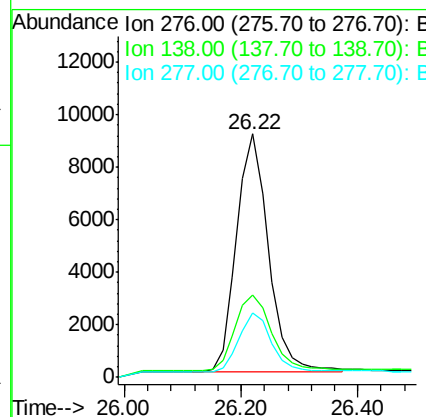
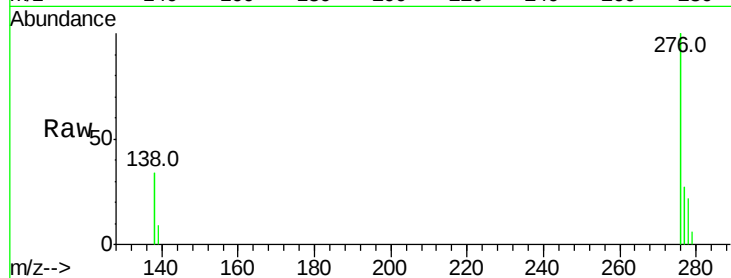




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.42 ng
 RT: 26.22 min Scan# 1625
 Delta R.T. 0.00 min
 Lab File: BE093051.D
 Acq: 16 May 2017 13:27

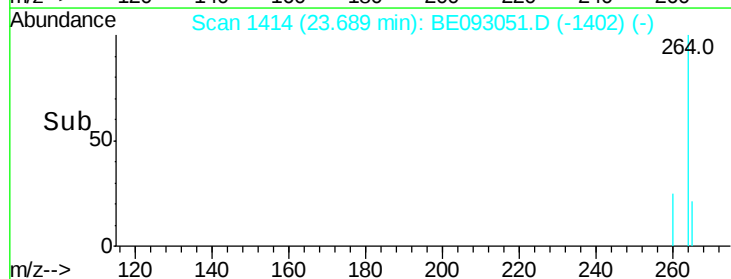
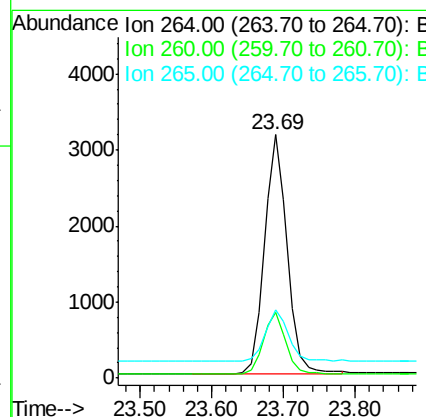
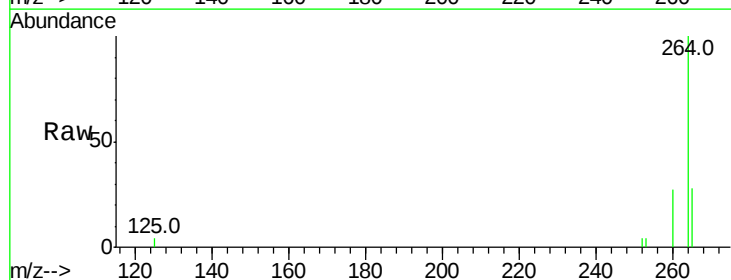
Instrument :
 BNA_E
 ClientSampleId :

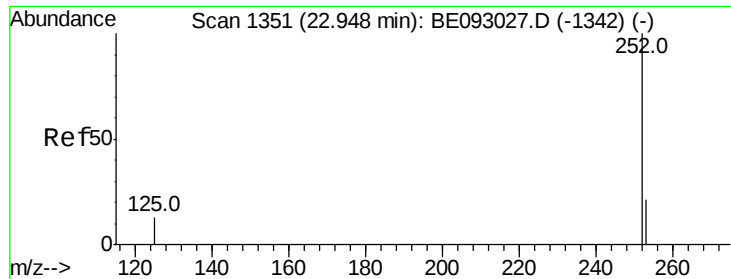
Tot Ion:276 Resp: 34794
 Ion Ratio Lower Upper
 276 100
 138 35.4 27.4 41.2
 277 25.1 20.1 30.1



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 23.69 min Scan# 1414
 Delta R.T. -0.01 min
 Lab File: BE093051.D
 Acq: 16 May 2017 13:27

Tgt Ion:264 Resp: 6968
 Ion Ratio Lower Upper
 264 100
 260 26.7 21.0 31.4
 265 28.0 24.6 36.8





#35

Benzo(b)fluoranthene

Concen: 0.39 ng

RT: 22.95 min Scan# 1350

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :

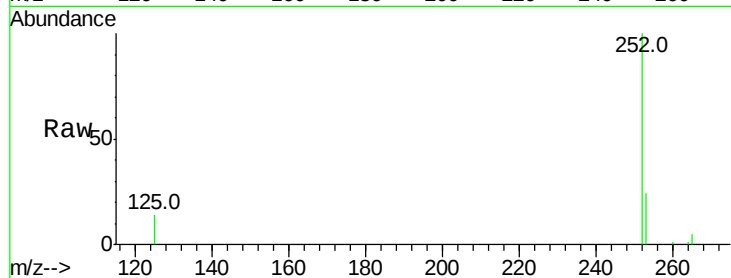
Tot Ion:252 Resp: 8681

Ion Ratio Lower Upper

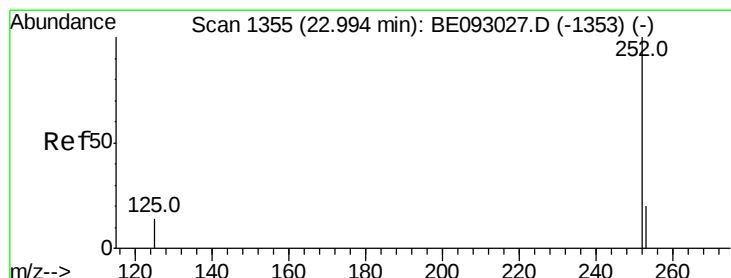
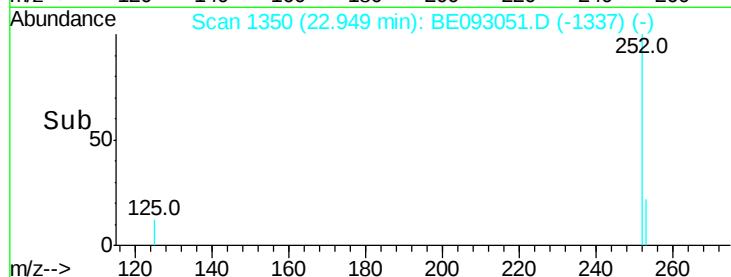
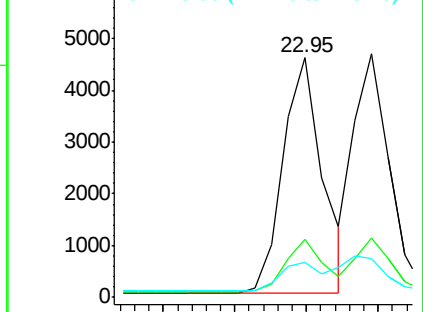
252 100

253 24.1 18.5 27.7

125 14.5 13.4 20.0



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



#36

Benzo(k)fluoranthene

Concen: 0.36 ng

RT: 23.00 min Scan# 1354

Delta R.T. 0.00 min

Lab File: BE093051.D

Acq: 16 May 2017 13:27

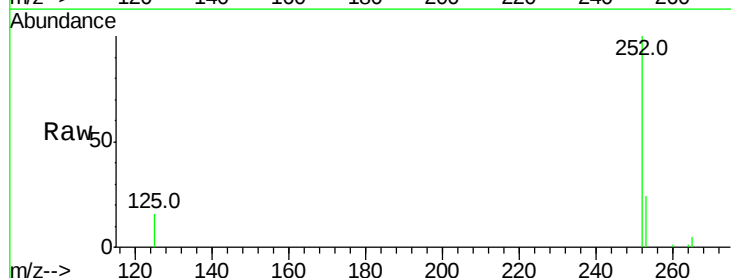
Tgt Ion:252 Resp: 8011

Ion Ratio Lower Upper

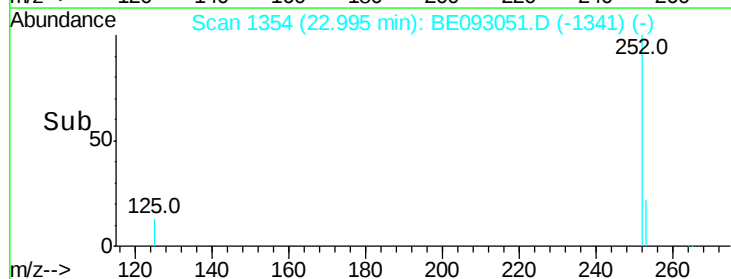
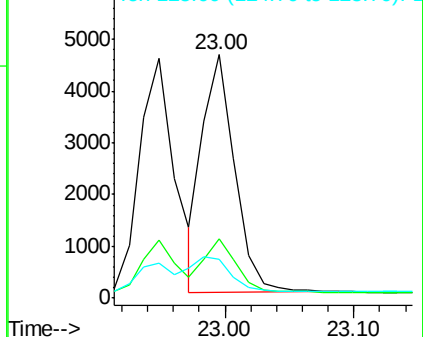
252 100

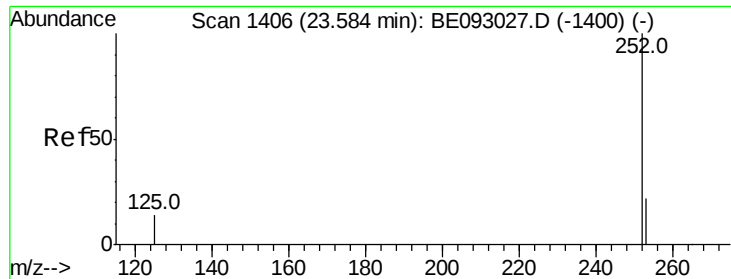
253 24.1 20.3 30.5

125 15.8 12.2 18.4



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

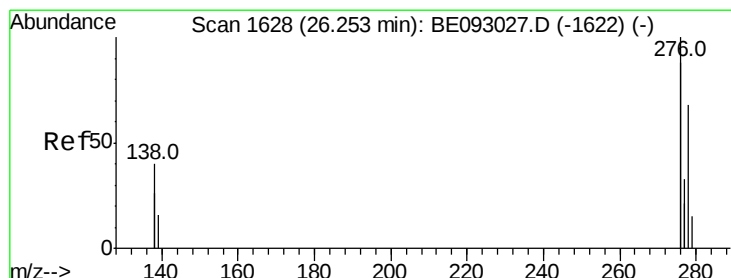
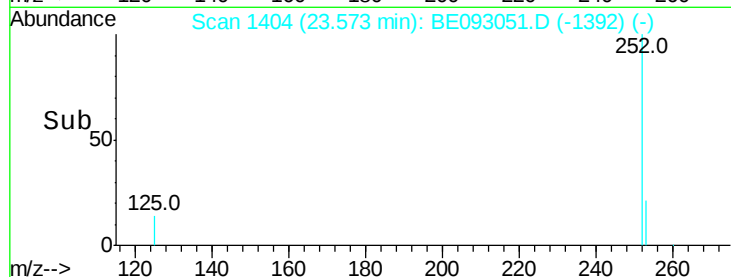
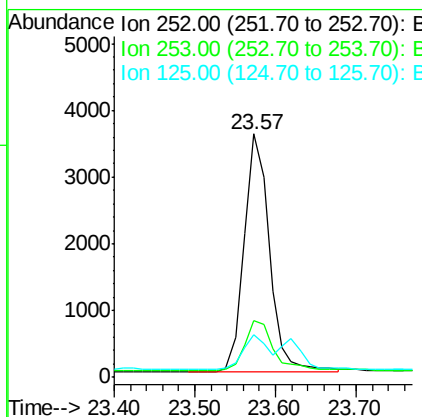
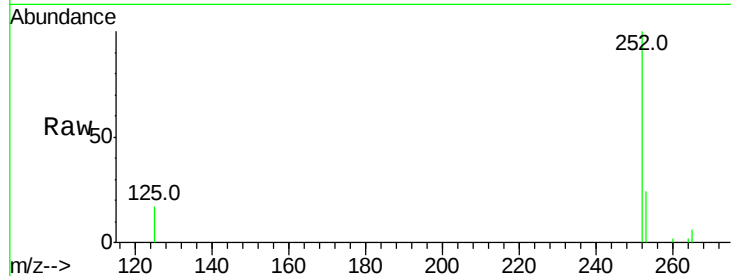




#37
Benzo(a)pyrene
Concen: 0.38 ng
RT: 23.57 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BE093051.D
Acq: 16 May 2017 13:27

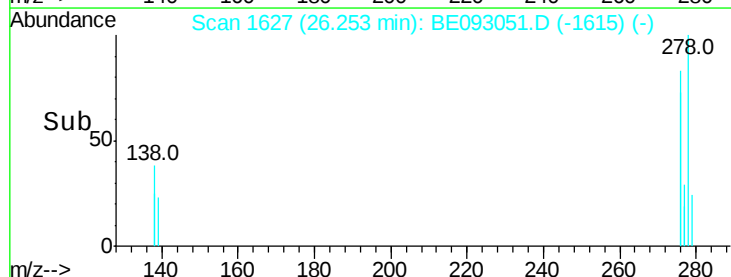
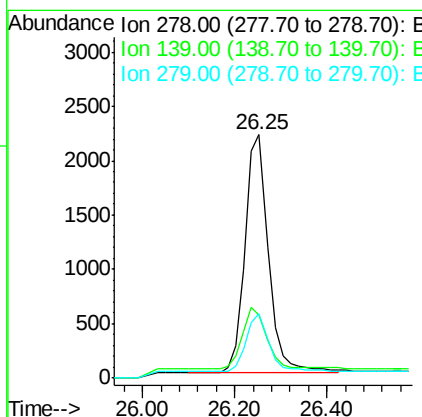
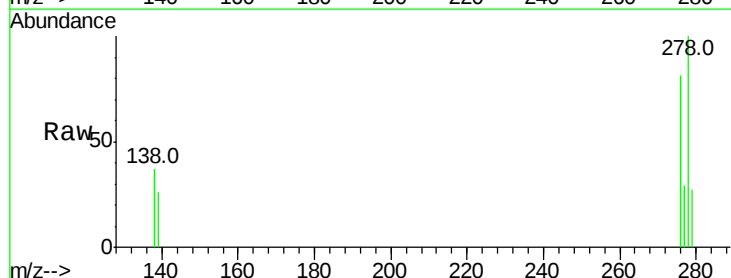
Instrument :
BNA_E
ClientSampleId :

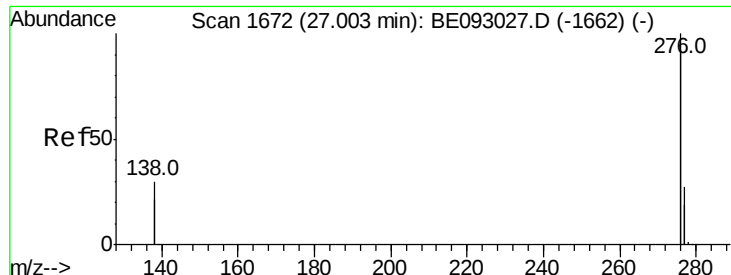
Tot Ion:252 Resp: 7756
Ion Ratio Lower Upper
252 100
253 23.5 19.9 29.9
125 17.4 14.6 21.8



#38
Dibenzo(a,h)anthracene
Concen: 0.41 ng
RT: 26.25 min Scan# 1627
Delta R.T. 0.00 min
Lab File: BE093051.D
Acq: 16 May 2017 13:27

Tgt Ion:278 Resp: 7677
Ion Ratio Lower Upper
278 100
139 25.9 21.4 32.0
279 26.6 22.2 33.2





#39

Benzo(a,h,i)perylene

Concen: 0.38 ng

RT: 26.99 min Scan# 1670

Delta R.T. -0.02 min

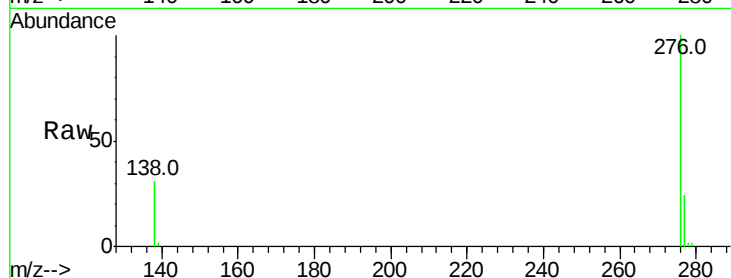
Lab File: BE093051.D

Acq: 16 May 2017 13:27

Instrument :

BNA_E

ClientSampleId :



Tot Ion:276 Resp: 31386

Ion Ratio Lower Upper

276 100

277 24.4 21.2 31.8

138 31.1 24.5 36.7

