

Data Path : Z:\HPCHEM1\BNA E\DATA\BE012517\
 Data File : BE092685.D
 Acq On : 25 Jan 2017 15:51
 Operator : SJ/MA
 Sample : I1378-08DL 100X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RVE-9DL

Quant Time: Jan 25 17:27:54 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 10:14:01 2017
 Response via : Initial Calibration

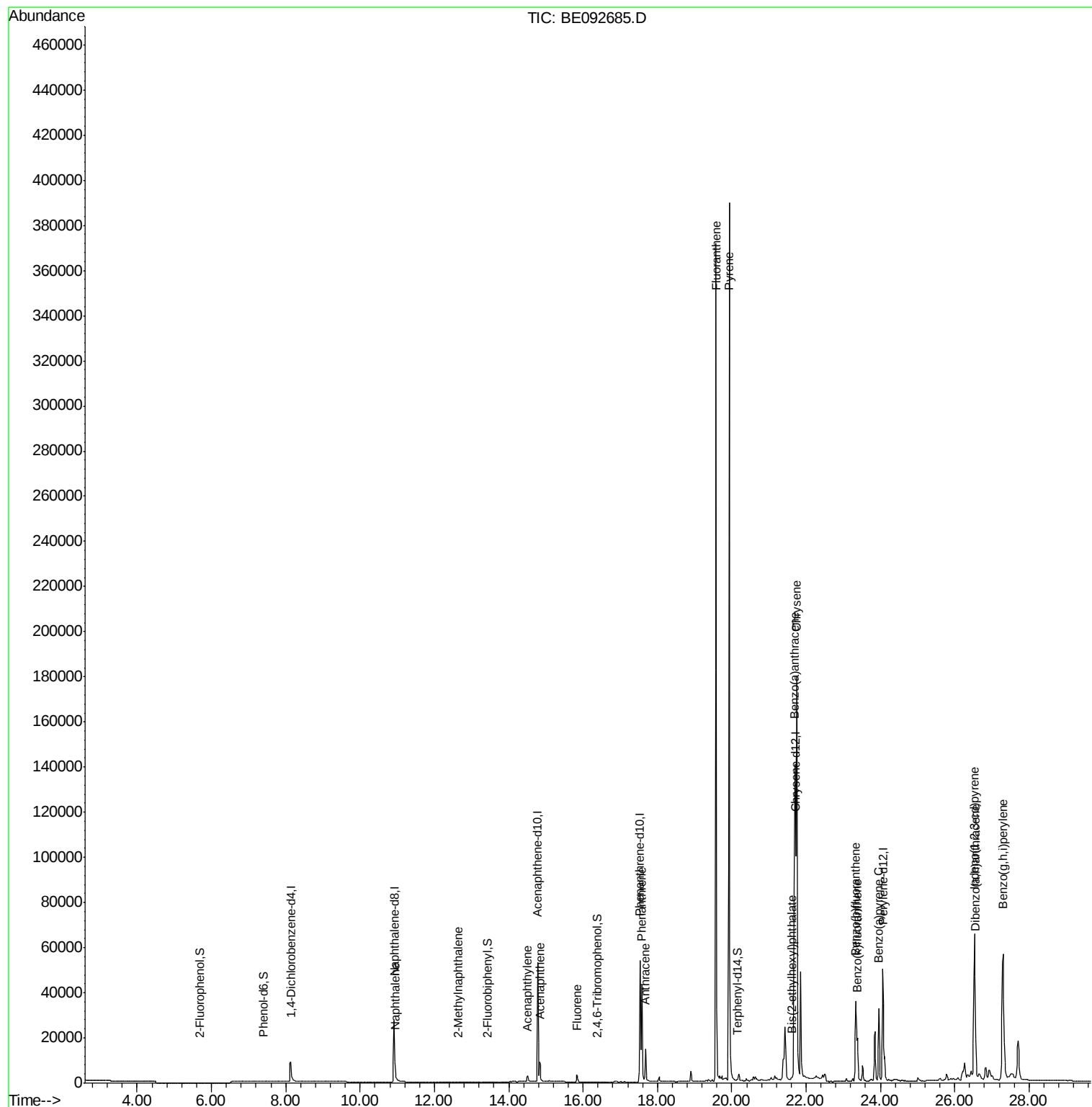
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9231	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	49924	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	34797	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	77079	5.00	ng	0.00
24) Chrysene-d12	21.72	240	68481	5.00	ng	0.00
31) Perylene-d12	24.06	264	71561	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	101	0.05	ng	0.03
5) Phenol-d6	7.40	99	119	0.05	ng	0.07
8) Nitrobenzene-d5	0.00	82	0	0.00	ng	
13) 2,4,6-Tribromophenol	16.38	330	63	0.19	ng	0.08
14) 2-Fluorobiphenyl	13.43	172	321	0.04	ng	0.01
26) Terphenyl-d14	20.16	244	429	0.04	ng	0.00
Target Compounds						
9) Naphthalene	10.95	128	956	0.09	ng	Qvalue # 76
11) 2-Methylnaphthalene	12.64	142	309	0.05	ng	# 84
15) Acenaphthylene	14.51	152	7076	0.15	ng	98
16) Acenaphthene	14.85	154	2301	0.30	ng	97
17) Fluorene	15.83	166	3765	0.39	ng	100
21) Phenanthrene	17.58	178	54938m	3.23	ng	
22) Anthracene	17.67	178	20846m	1.33	ng	
23) Fluoranthene	19.58	202	486504	6.45	ng	99
25) Pyrene	19.94	202	445308	6.60	ng	# 92
27) Benzo(a)anthracene	21.70	228	225861m	3.35	ng	
28) Chrysene	21.75	228	181314m	2.39	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	469	0.24	ng	# 71
30) Indeno(1,2,3-cd)pyrene	26.53	276	132267	1.61	ng	96
32) Benzo(b)fluoranthene	23.34	252	69485m	4.01	ng	
33) Benzo(k)fluoranthene	23.38	252	21411m	1.23	ng	
34) Benzo(a)pyrene	23.95	252	51965	3.20	ng	95
35) Dibenzo(a,h)anthracene	26.55	278	7418	0.47	ng	96
36) Benzo(g,h,i)perylene	27.30	276	144864	2.15	ng	97

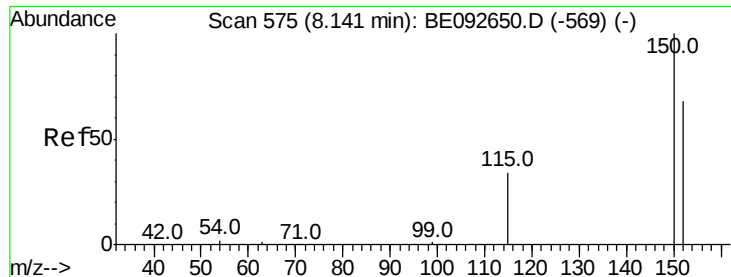
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 17 10:14:01 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

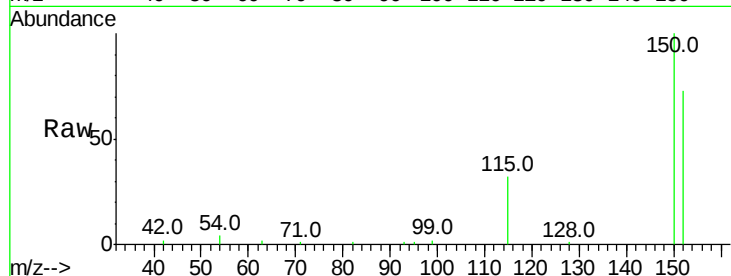
Tot Ion:152 Resp: 9231

Ion Ratio Lower Upper

152 100

150 137.0 106.0 159.0

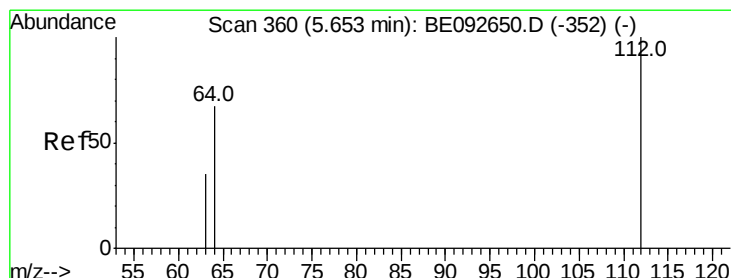
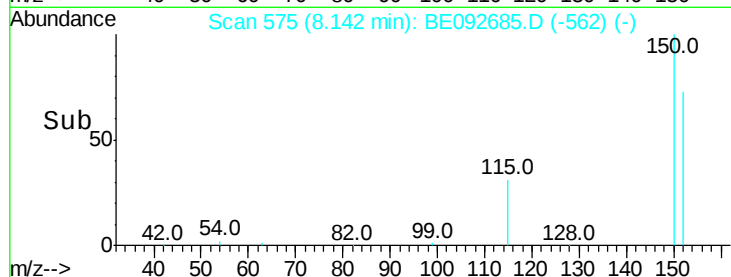
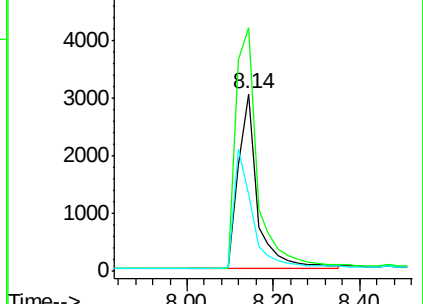
115 43.4 31.2 46.8



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



#4

2-Fluorophenol

Concen: 0.05 ng

RT: 5.69 min Scan# 366

Delta R.T. 0.03 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

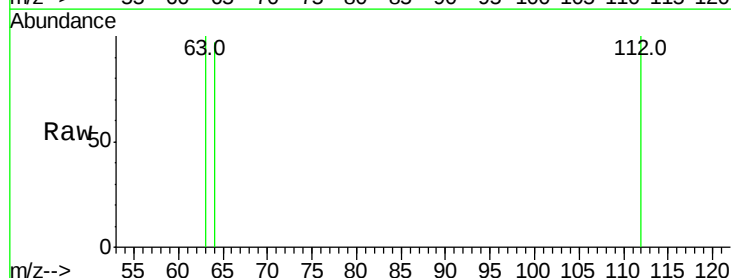
Tgt Ion:112 Resp: 101

Ion Ratio Lower Upper

112 100

64 63.4 53.5 80.3

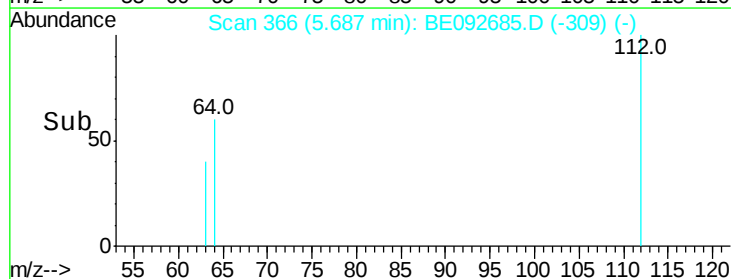
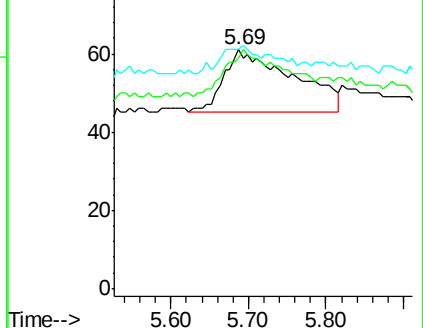
63 15.8 27.9 41.9#

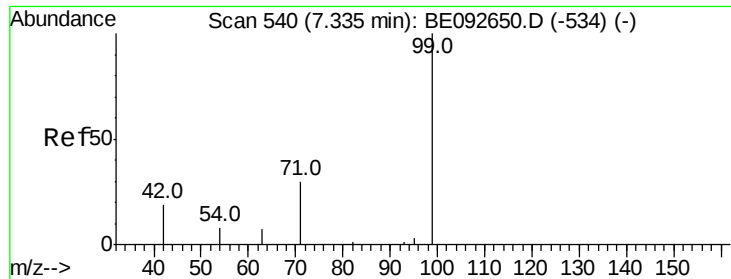


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.05 ng

RT: 7.40 min Scan# 543

Delta R.T. 0.07 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

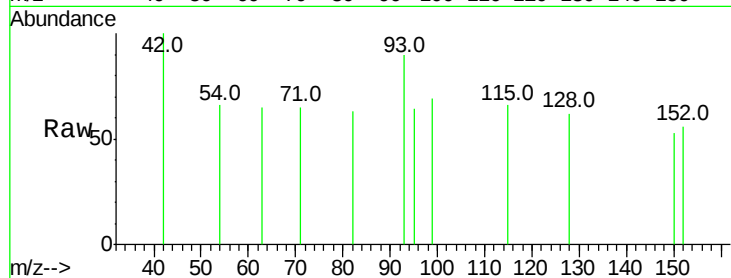
Tot Ion: 99 Resp: 119

Ion Ratio Lower Upper

99 100

42 25.2 16.0 24.0#

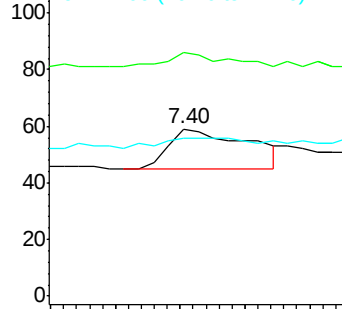
71 31.1 30.6 45.8



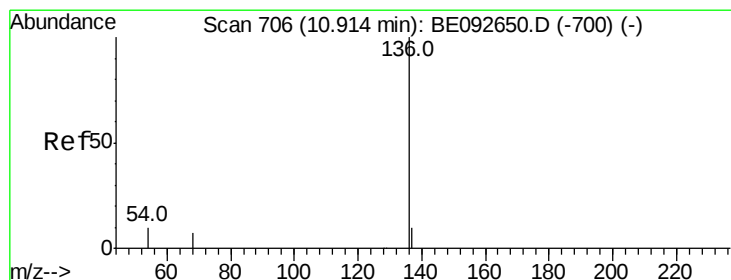
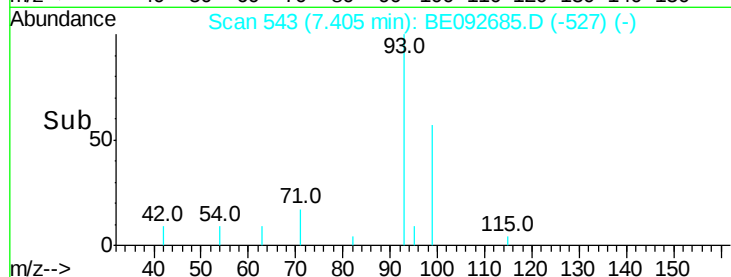
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time--> 7.20 7.30 7.40 7.50 7.60



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Tgt Ion: 136 Resp: 49924

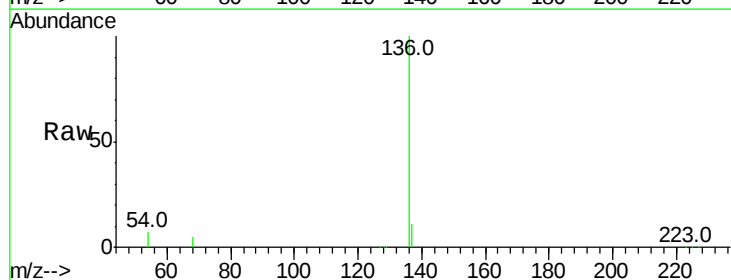
Ion Ratio Lower Upper

136 100

137 11.3 8.2 12.4

54 7.4 9.6 14.4#

68 5.4 6.7 10.1#

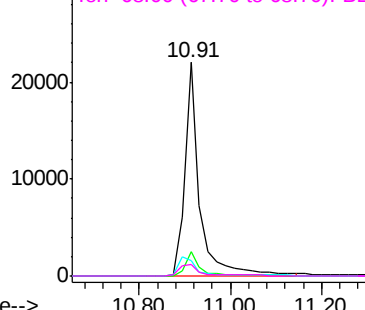


Abundance Ion 136.00 (135.70 to 136.70): E

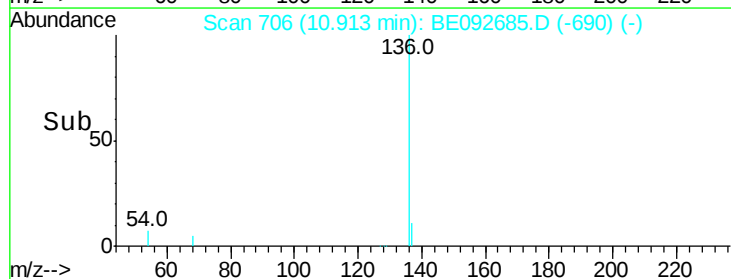
Ion 137.00 (136.70 to 137.70): E

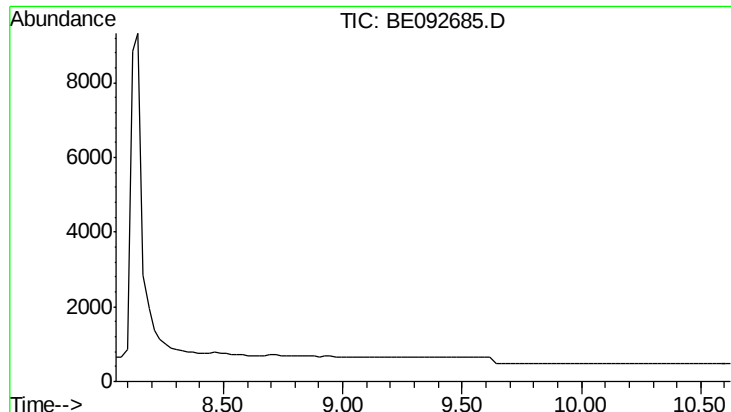
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time--> 10.80 11.00 11.20

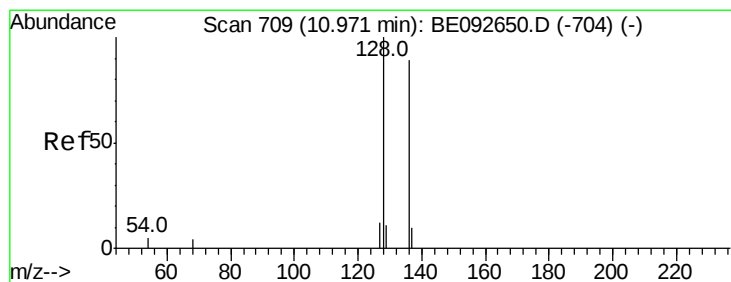
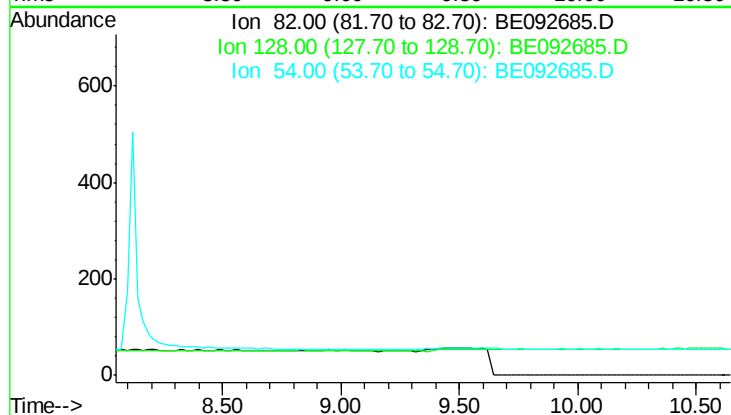




#8
 Nitrobenzene-d5
 Concen: 0.00 ng
 Expected RT: 9.34 min
 Lab File: BE092685.D
 Acq: 25 Jan 2017 15:51

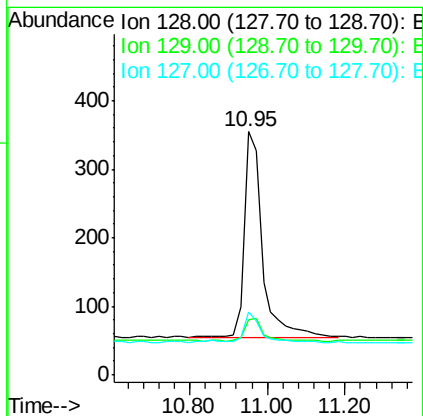
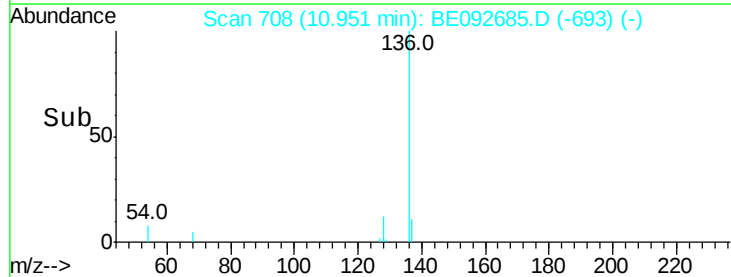
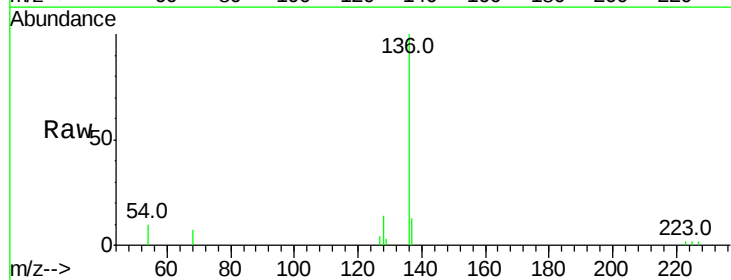
Instrument :
 BNA_E
 ClientSampleId :
 RVE-9DL

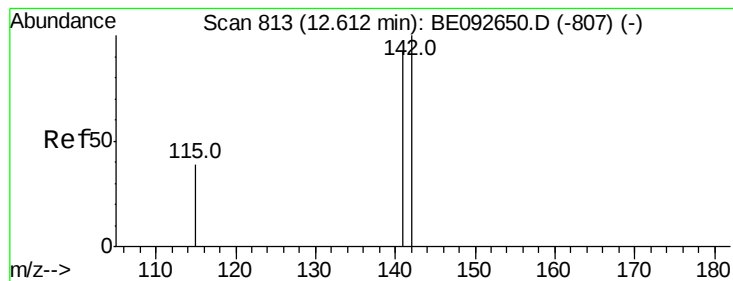
Tot Ion: 82
 Sig Exp Ratio
 82 100
 128 48.7
 54 56.0



#9
 Naphthalene
 Concen: 0.09 ng
 RT: 10.95 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE092685.D
 Acq: 25 Jan 2017 15:51

Tgt Ion:128 Resp: 956
 Ion Ratio Lower Upper
 128 100
 129 22.8 11.2 16.8#
 127 25.6 11.6 17.4#





#11

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.64 min Scan# 815

Delta R.T. 0.02 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

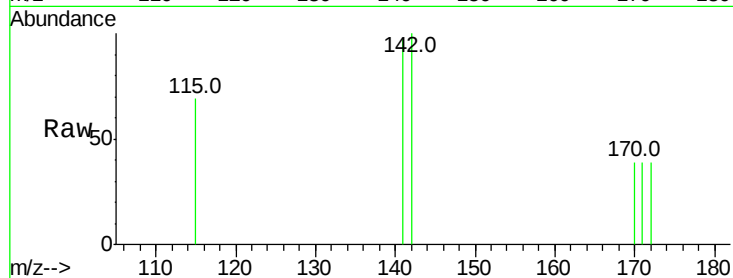
Tot Ion:142 Resp: 309

Ion Ratio Lower Upper

142 100

141 96.6 73.7 110.5

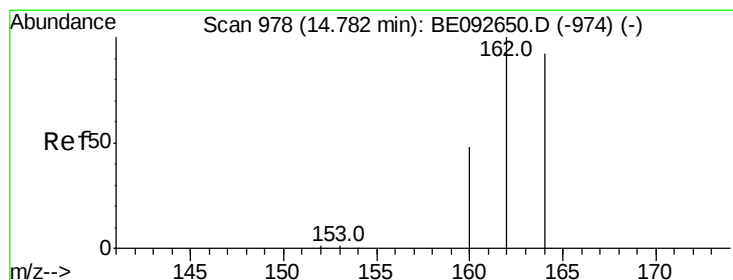
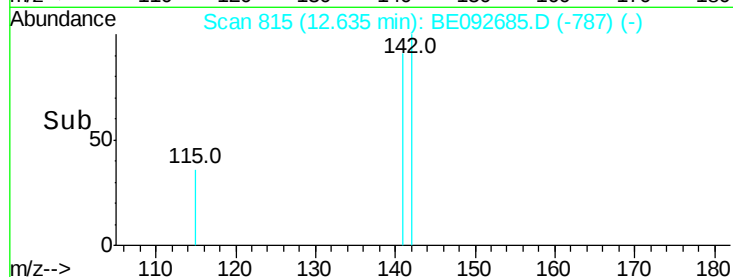
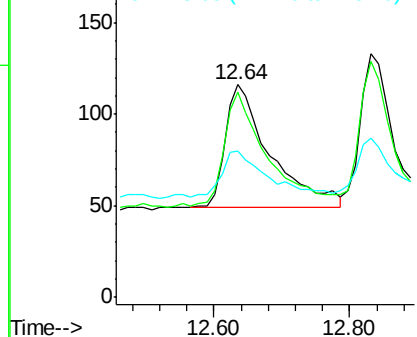
115 69.0 34.0 51.0#



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.78 min Scan# 978

Delta R.T. -0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

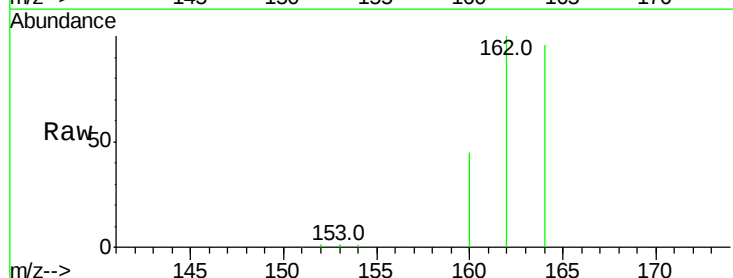
Tgt Ion:164 Resp: 34797

Ion Ratio Lower Upper

164 100

162 104.4 71.4 107.0

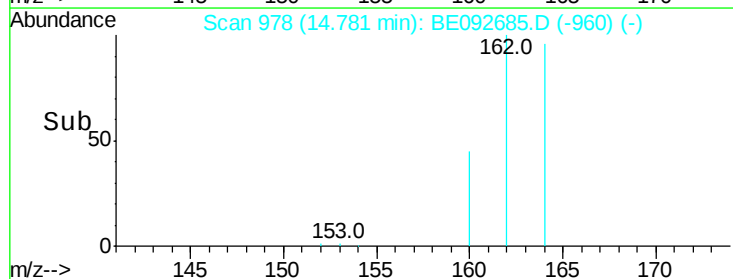
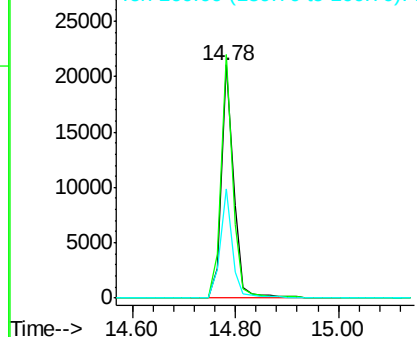
160 47.0 27.4 41.2#

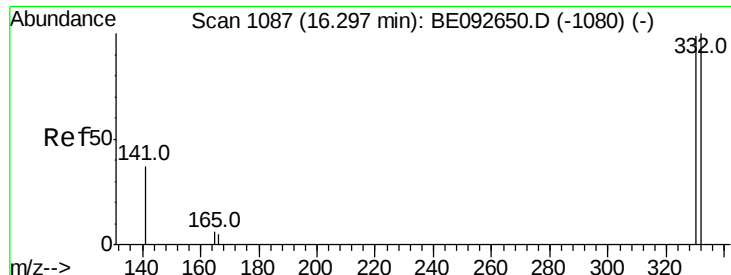


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

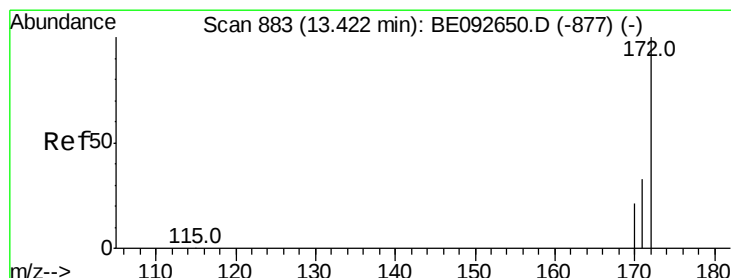
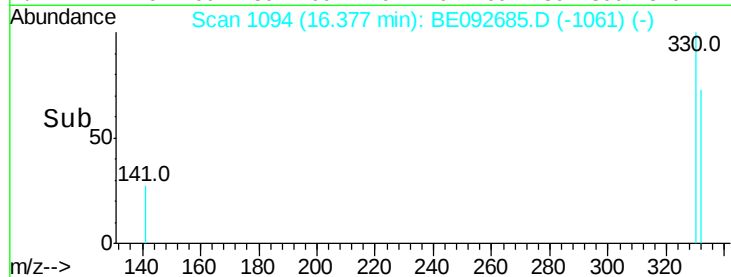
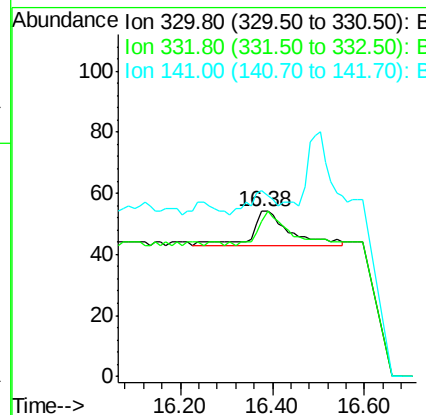
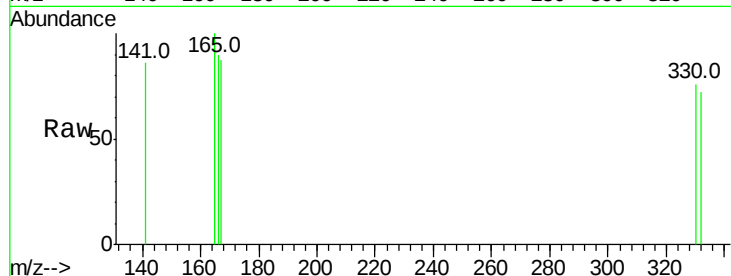




#13
 2,4,6-Tribromophenol
 Concen: 0.19 ng
 RT: 16.38 min Scan# 1094
 Delta R.T. 0.08 min
 Lab File: BE092685.D
 Acq: 25 Jan 2017 15:51

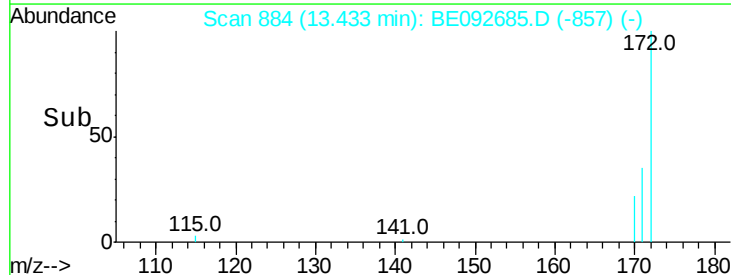
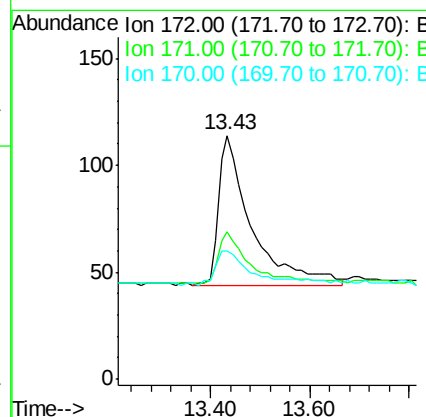
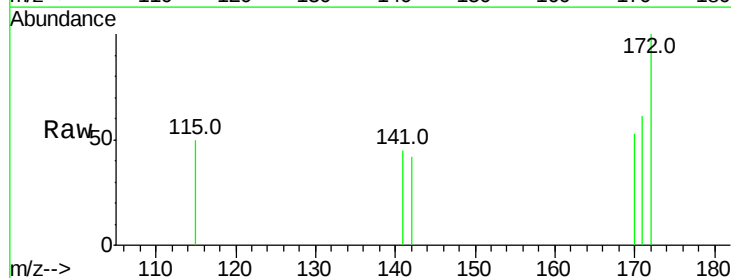
Instrument :
 BNA_E
 ClientSampled :
 RVE-9DL

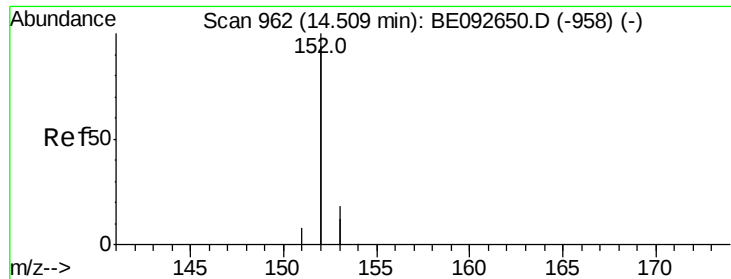
Tot Ion:330 Resp: 63
 Ion Ratio Lower Upper
 330 100
 332 71.4 75.4 113.0#
 141 44.4 31.0 46.6



#14
 2-Fluorobiphenyl
 Concen: 0.04 ng
 RT: 13.43 min Scan# 884
 Delta R.T. 0.01 min
 Lab File: BE092685.D
 Acq: 25 Jan 2017 15:51

Tgt Ion:172 Resp: 321
 Ion Ratio Lower Upper
 172 100
 171 60.5 30.1 45.1#
 170 52.6 21.8 32.6#





#15

Acenaphthylene

Concen: 0.15 ng

RT: 14.51 min Scan# 962

Delta R.T. -0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

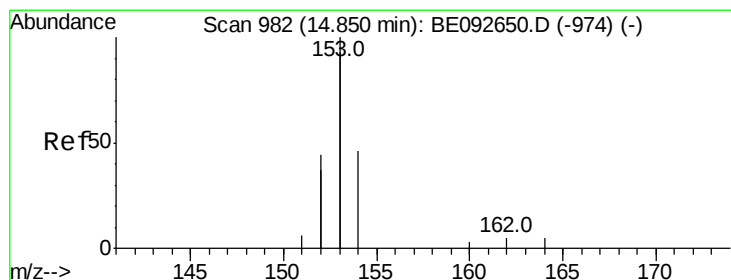
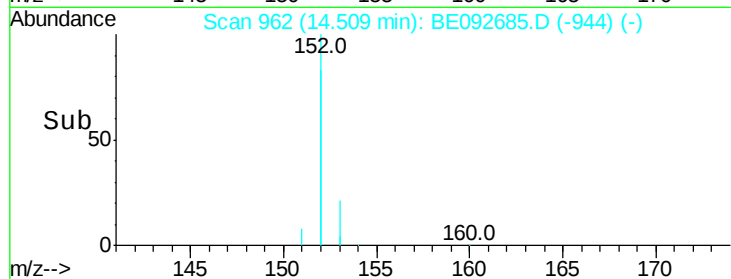
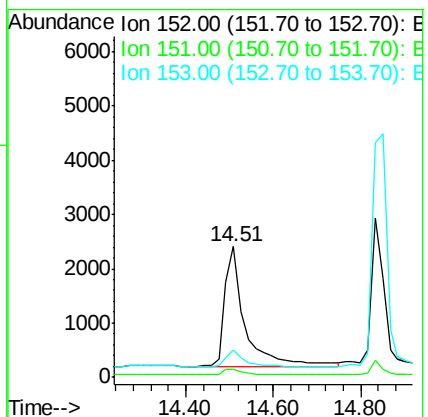
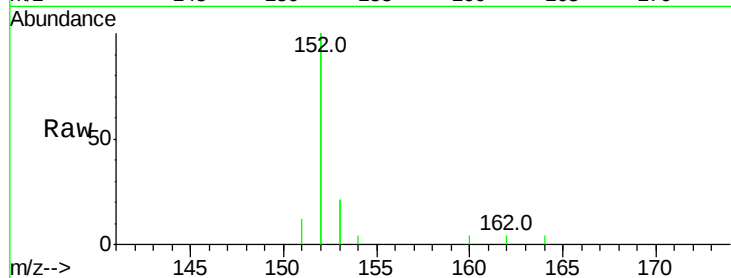
Tot Ion:152 Resp: 7076

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

153 12.1 10.4 15.6



#16

Acenaphthene

Concen: 0.30 ng

RT: 14.85 min Scan# 982

Delta R.T. -0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

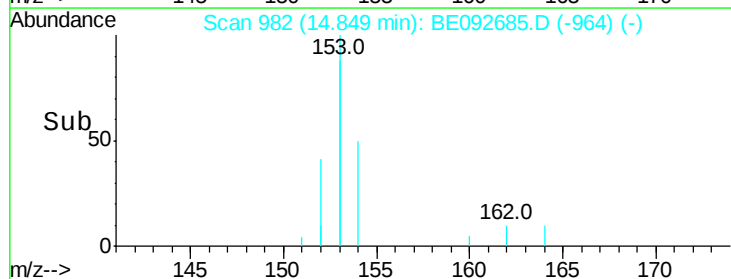
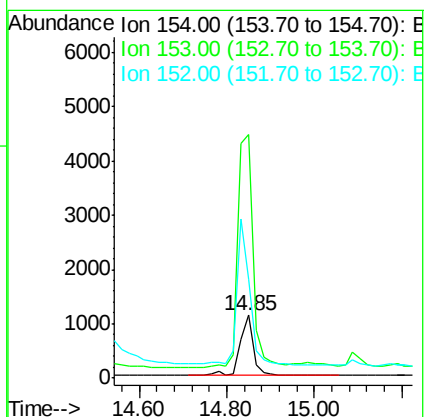
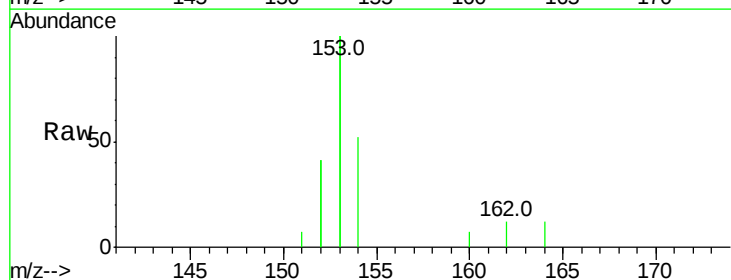
Tgt Ion:154 Resp: 2301

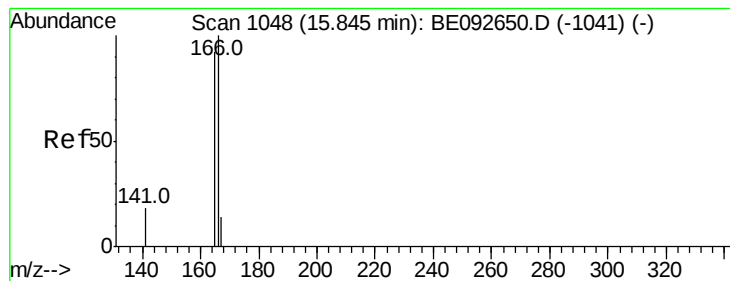
Ion Ratio Lower Upper

154 100

153 435.9 350.8 526.2

152 226.7 171.1 256.7





#17

Fluorene

Concen: 0.39 ng

RT: 15.83 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

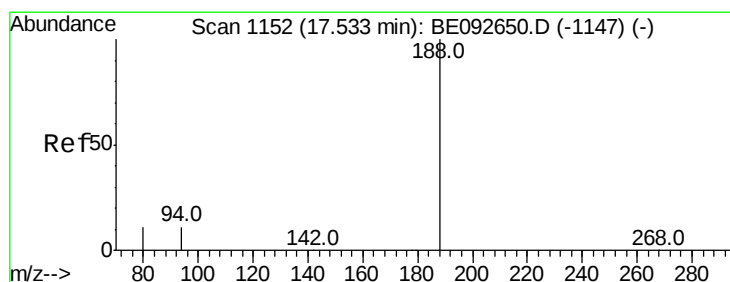
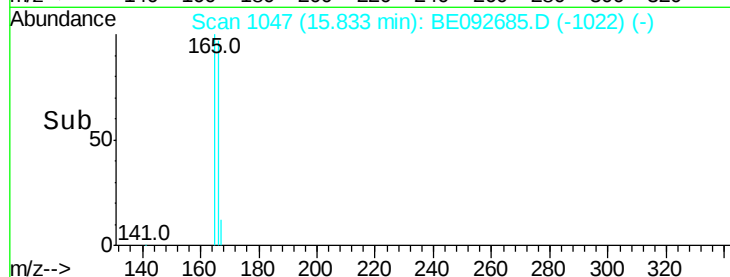
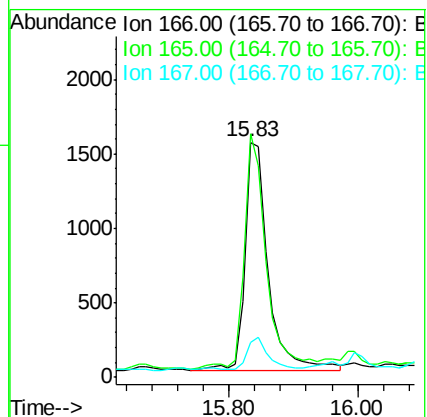
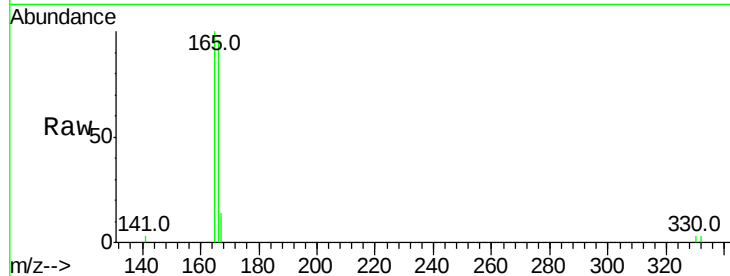
Tot Ion:166 Resp: 3765

Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.4

167 12.8 11.0 16.4



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.53 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

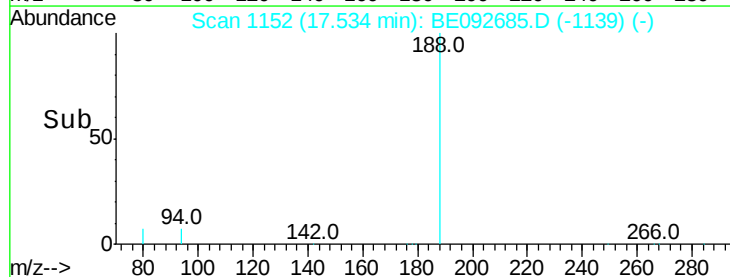
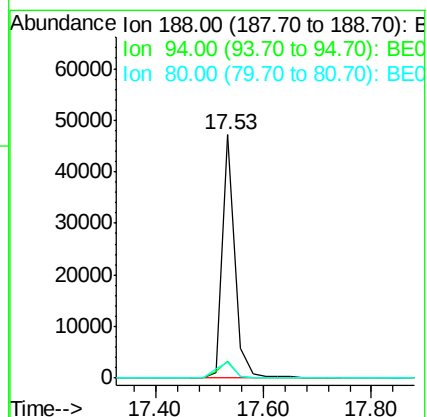
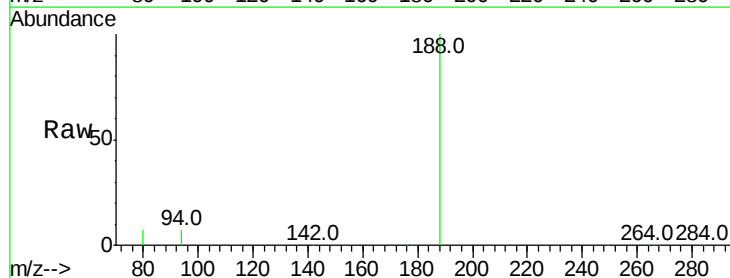
Tgt Ion:188 Resp: 77079

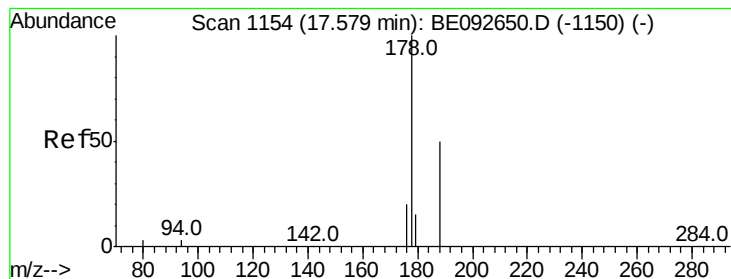
Ion Ratio Lower Upper

188 100

94 7.2 3.2 4.8#

80 6.6 2.6 3.8#





#21

Phenanthrene

Concen: 3.23 ng m

RT: 17.58 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

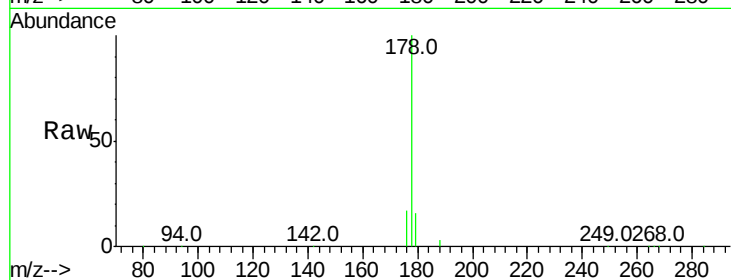
Tot Ion:178 Resp: 54938

Ion Ratio Lower Upper

178 100

176 6.5 15.8 23.8#

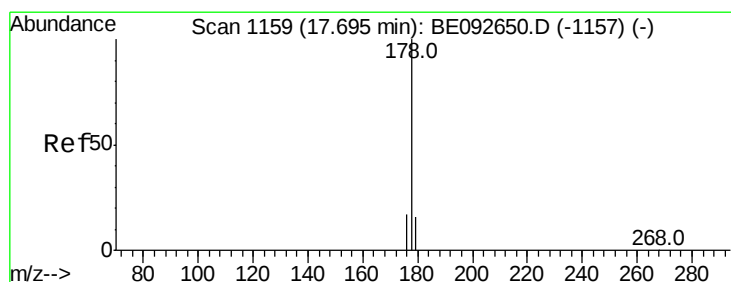
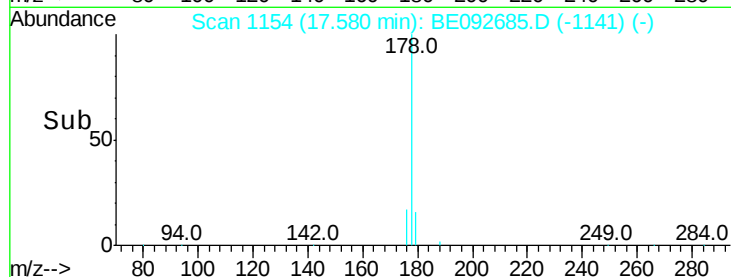
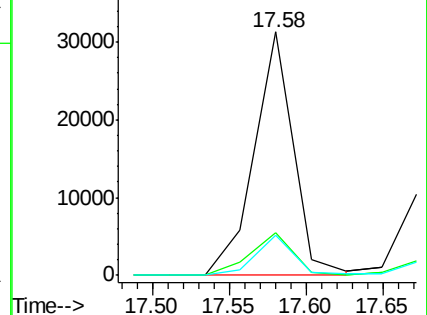
179 5.6 16.0 24.0#



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



#22

Anthracene

Concen: 1.33 ng m

RT: 17.67 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

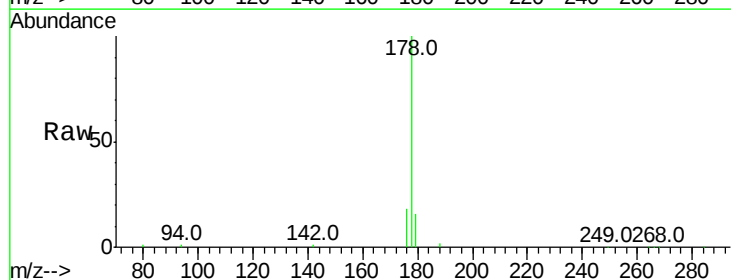
Tgt Ion:178 Resp: 20846

Ion Ratio Lower Upper

178 100

176 49.4 15.0 22.4#

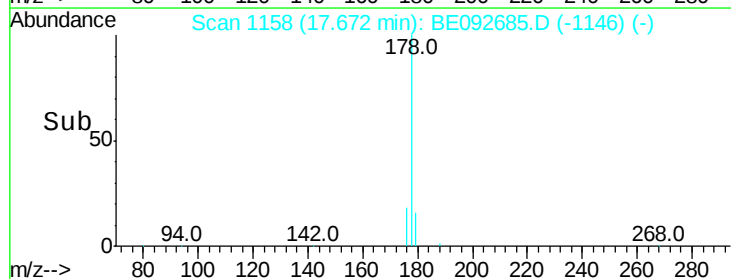
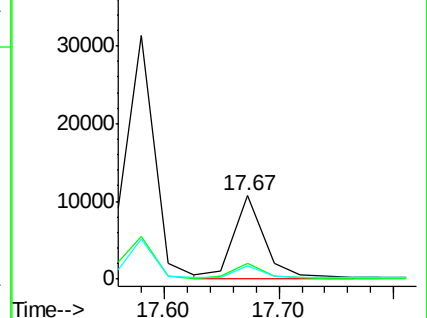
179 41.4 12.2 18.2#

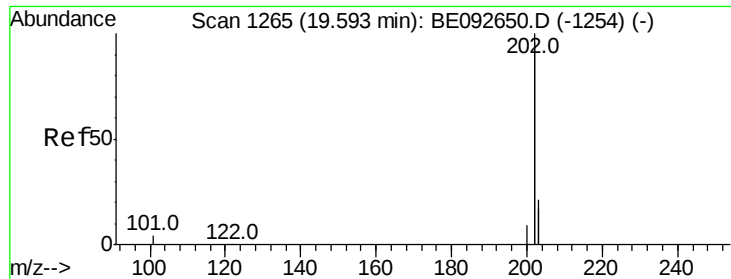


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 6.45 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

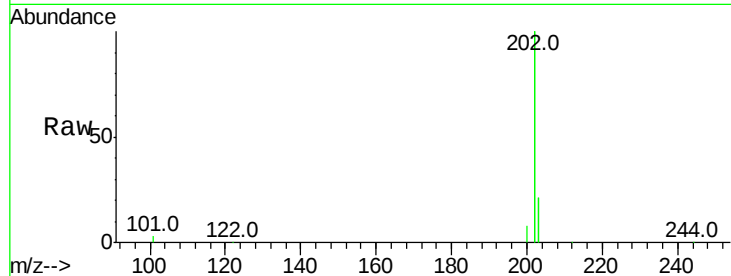
Tot Ion:202 Resp: 486504

Ion Ratio Lower Upper

202 100

101 2.9 2.2 3.4

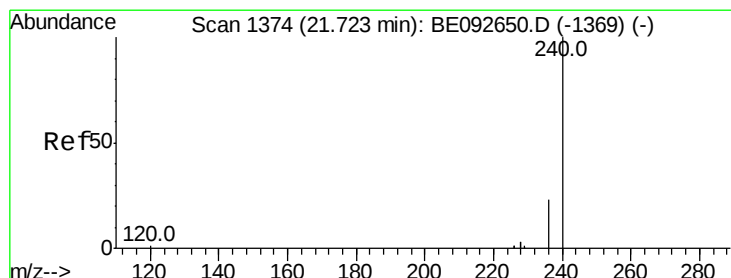
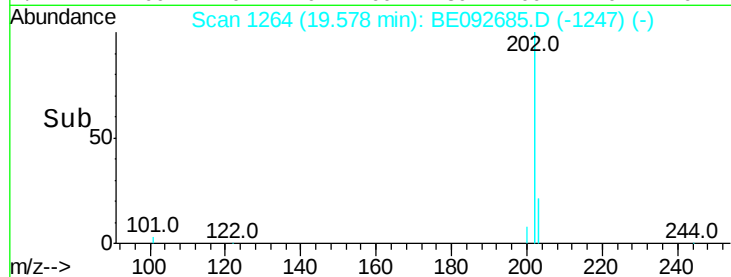
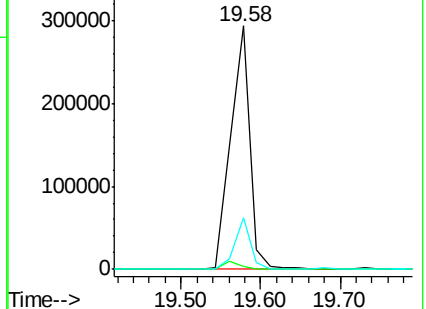
203 17.5 13.7 20.5



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

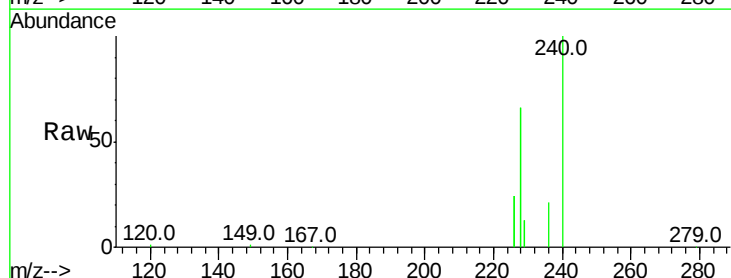
Tgt Ion:240 Resp: 68481

Ion Ratio Lower Upper

240 100

120 0.9 2.6 4.0#

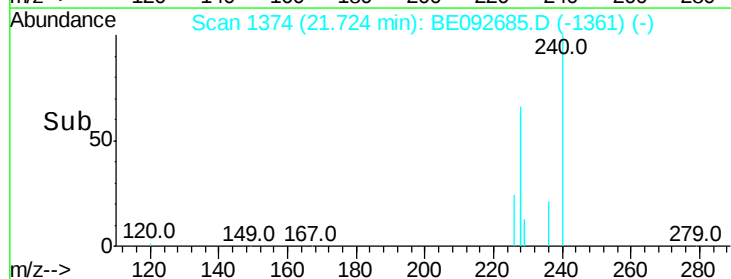
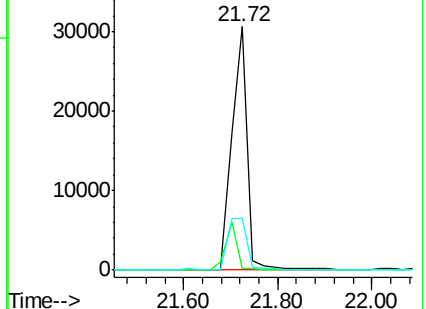
236 20.9 24.6 37.0#

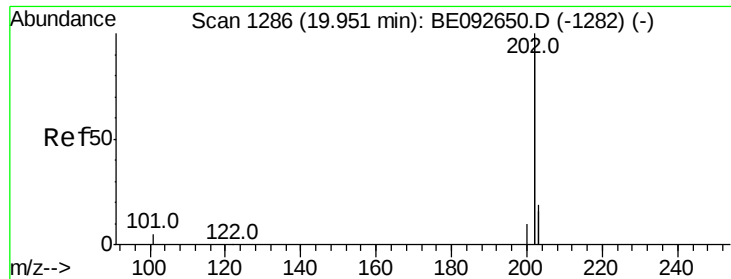


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

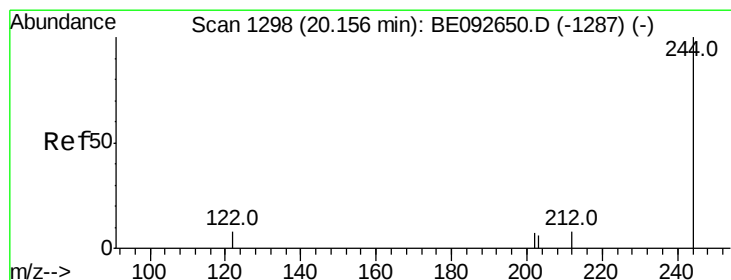
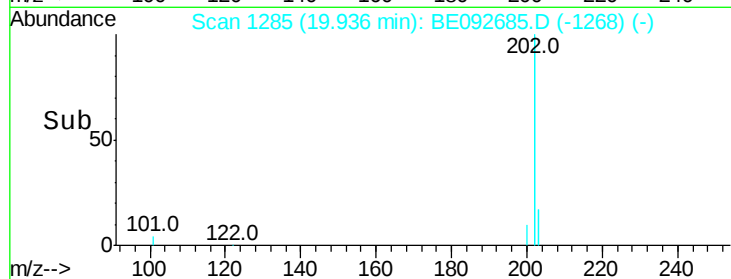
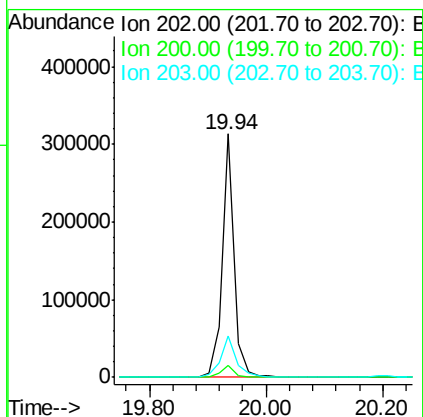
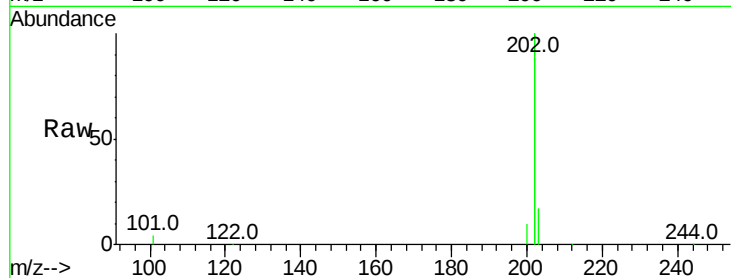




#25
Pvrene
Concen: 6.60 ng
RT: 19.94 min Scan# 1285
Delta R.T. -0.02 min
Lab File: BE092685.D
Acq: 25 Jan 2017 15:51

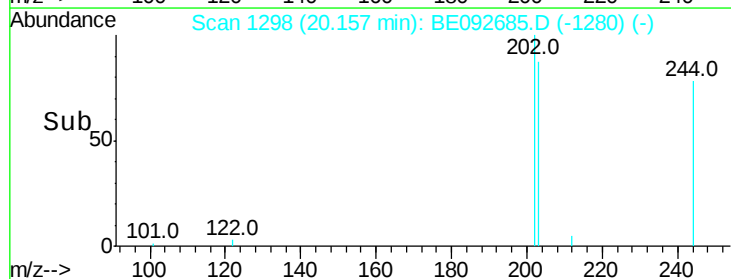
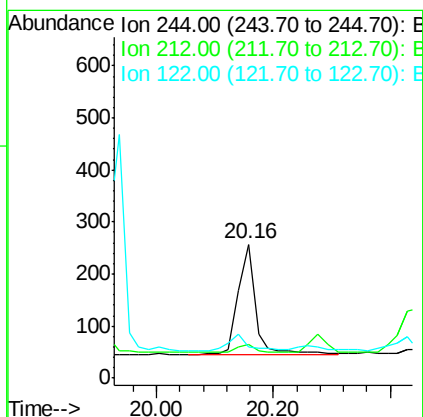
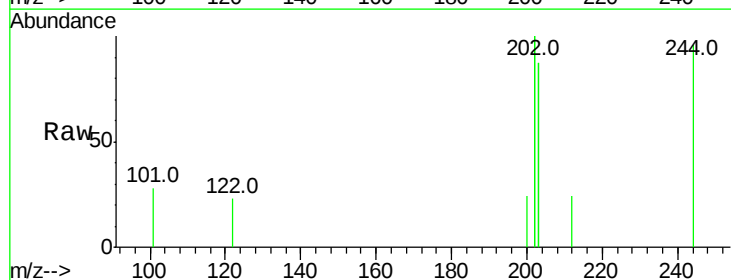
Instrument :
BNA_E
ClientSampleId :
RVE-9DL

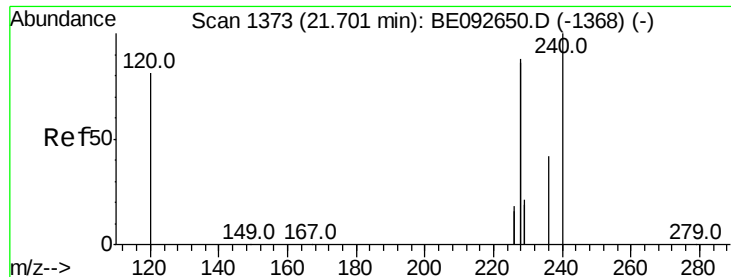
Tot Ion:202 Resp: 445308
Ion Ratio Lower Upper
202 100
200 5.3 4.2 6.4
203 22.1 13.9 20.9#



#26
Terphenyl-d14
Concen: 0.04 ng
RT: 20.16 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BE092685.D
Acq: 25 Jan 2017 15:51

Tgt Ion:244 Resp: 429
Ion Ratio Lower Upper
244 100
212 25.3 6.7 10.1#
122 23.7 3.6 5.4#





#27

Benzo(a)anthracene

Concen: 3.35 ng m

RT: 21.70 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

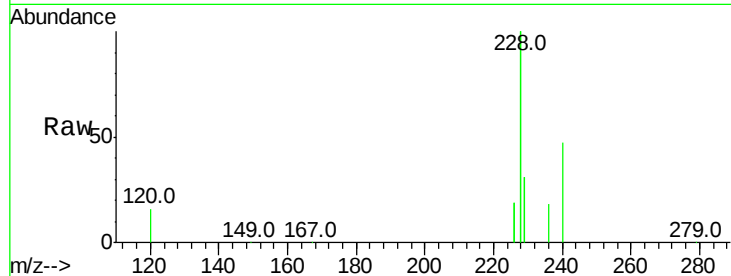
Tot Ion:228 Resp: 225861

Ion Ratio Lower Upper

228 100

226 19.4 23.6 35.4#

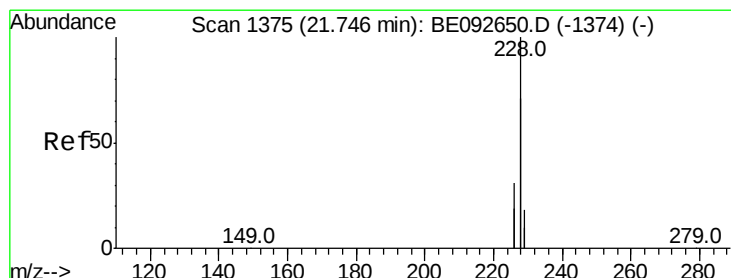
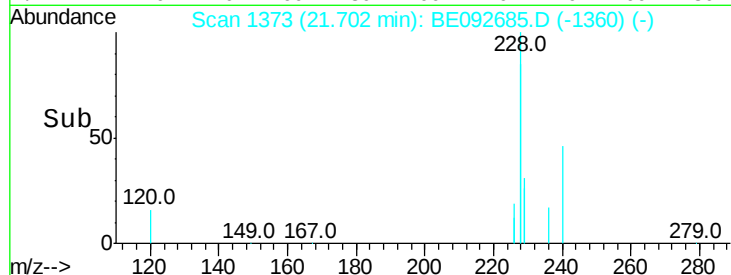
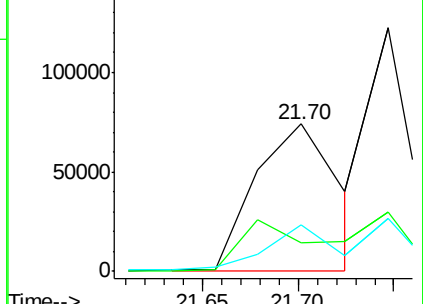
229 31.4 13.3 19.9#



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



#28

Chrysene

Concen: 2.39 ng m

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

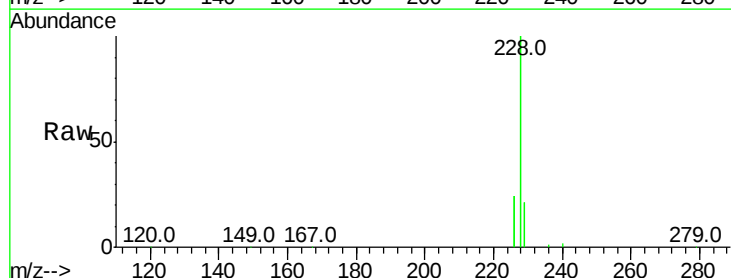
Tgt Ion:228 Resp: 181314

Ion Ratio Lower Upper

228 100

226 24.2 36.3 54.5#

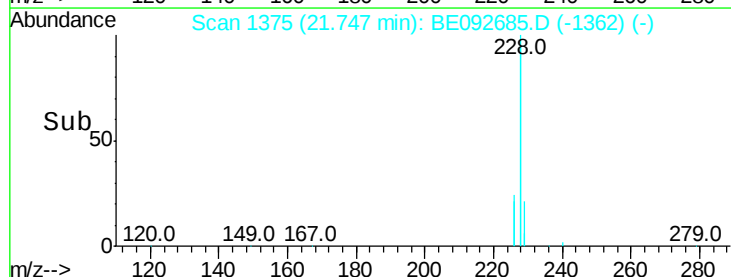
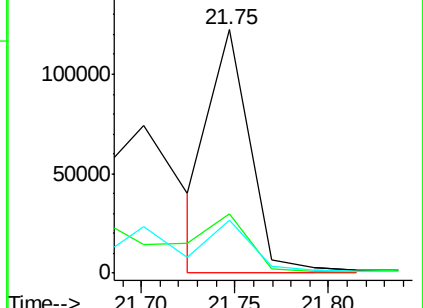
229 21.5 10.6 16.0#

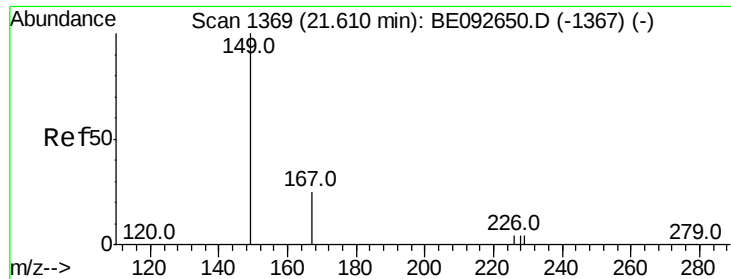


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.24 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampled :

RVE-9DL

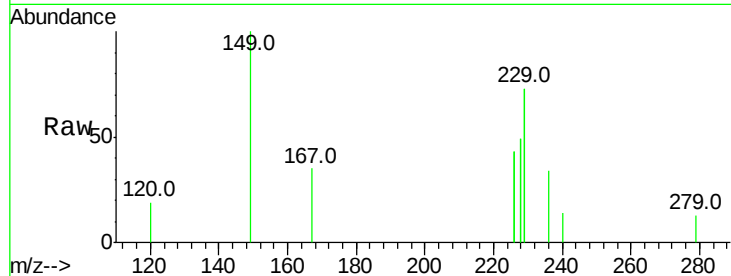
Tot Ion:149 Resp: 469

Ion Ratio Lower Upper

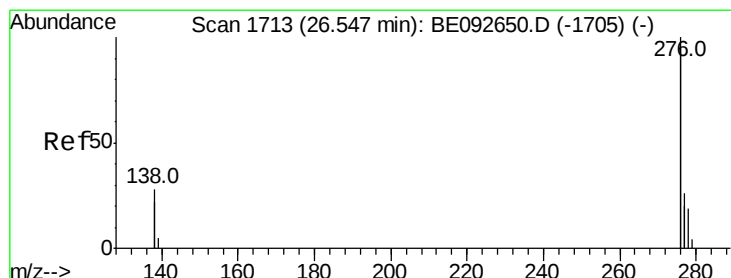
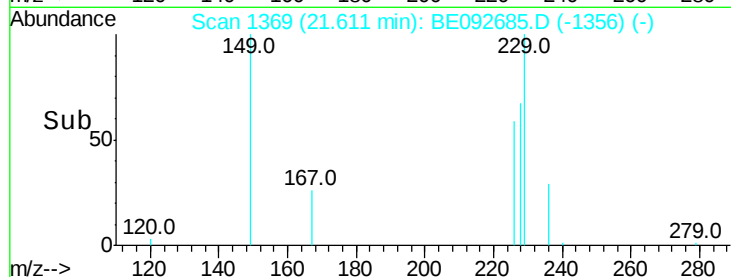
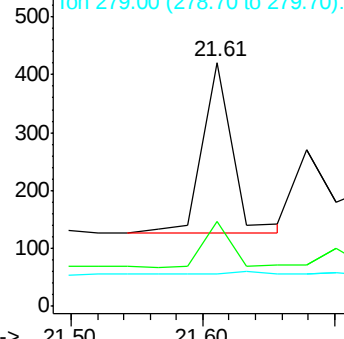
149 100

167 26.9 16.0 24.0#

279 0.0 16.0 24.0#



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



#30

Indeno(1,2,3-cd)pyrene

Concen: 1.61 ng

RT: 26.53 min Scan# 1712

Delta R.T. -0.02 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

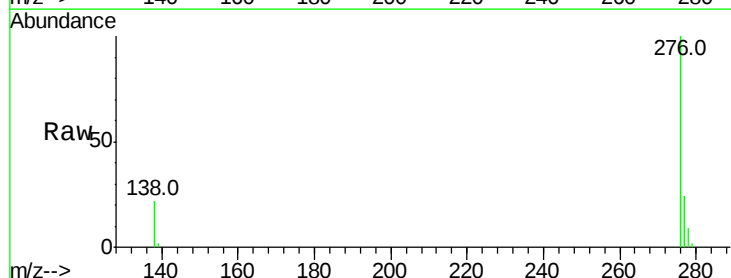
Tgt Ion:276 Resp: 132267

Ion Ratio Lower Upper

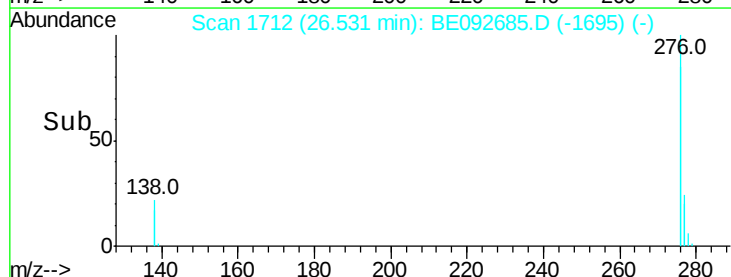
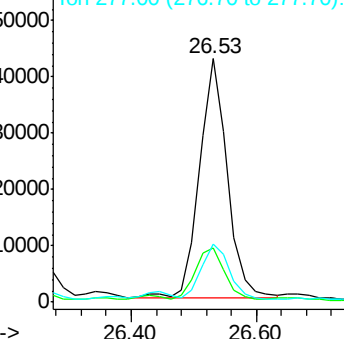
276 100

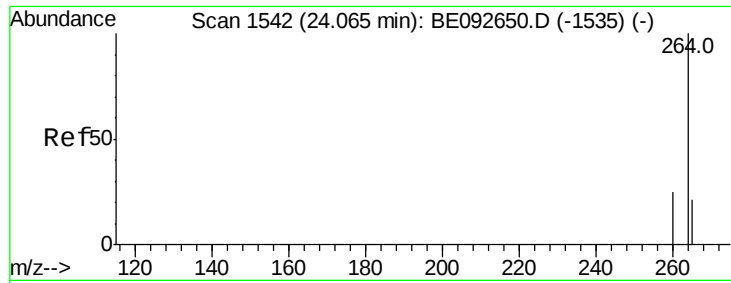
138 23.0 20.3 30.5

277 23.3 19.7 29.5



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

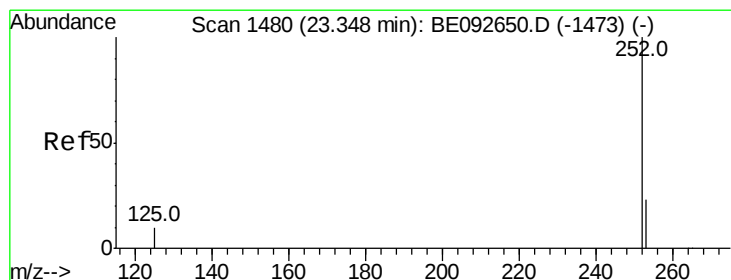
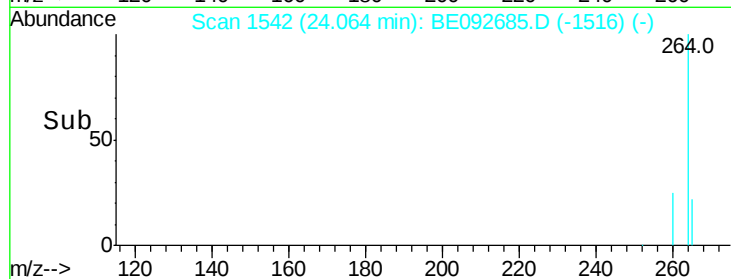
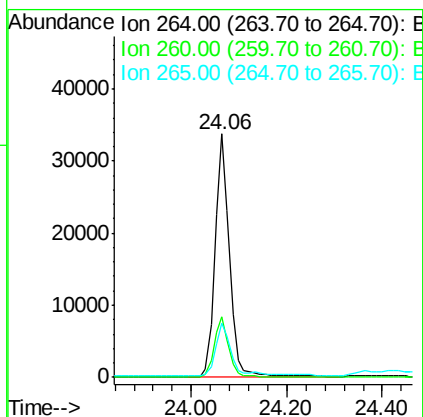
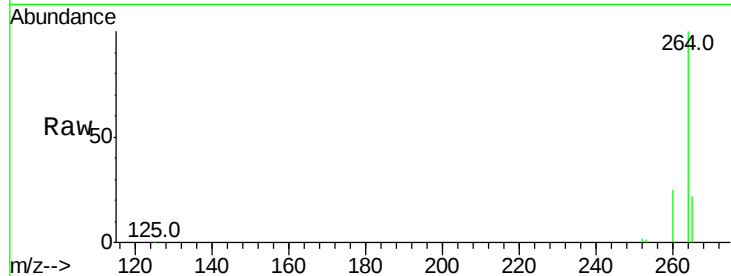




#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.06 min Scan# 1542
Delta R.T. -0.00 min
Lab File: BE092685.D
Acq: 25 Jan 2017 15:51

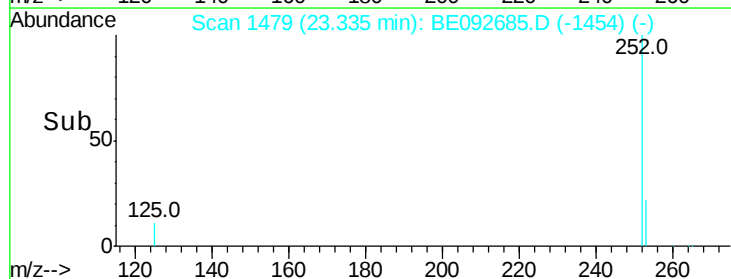
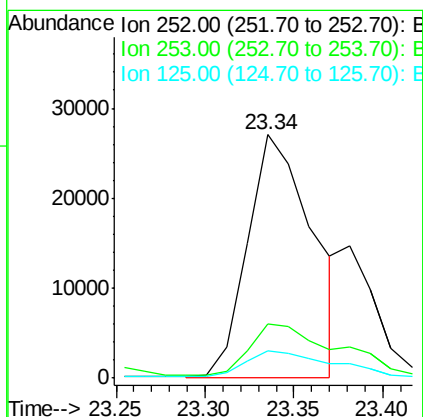
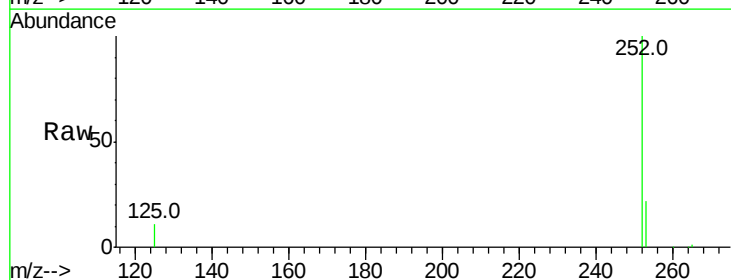
Instrument :
BNA_E
ClientSampleId :
RVE-9DL

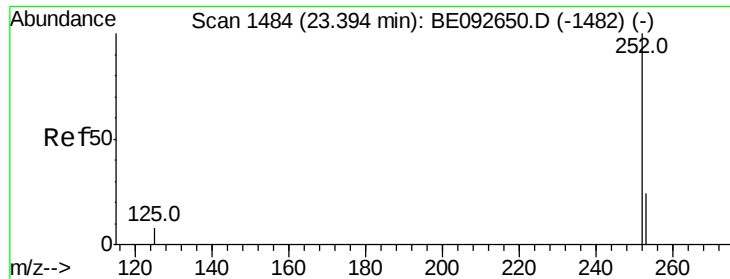
Tot Ion:264 Resp: 71561
Ion Ratio Lower Upper
264 100
260 24.9 20.1 30.1
265 22.2 17.9 26.9



#32
Benzo(b)fluoranthene
Concen: 4.01 ng m
RT: 23.34 min Scan# 1479
Delta R.T. -0.01 min
Lab File: BE092685.D
Acq: 25 Jan 2017 15:51

Tgt Ion:252 Resp: 69485
Ion Ratio Lower Upper
252 100
253 22.2 18.7 28.1
125 11.4 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 1.23 ng

RT: 23.38 min Scan# 1483

Delta R.T. -0.01 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

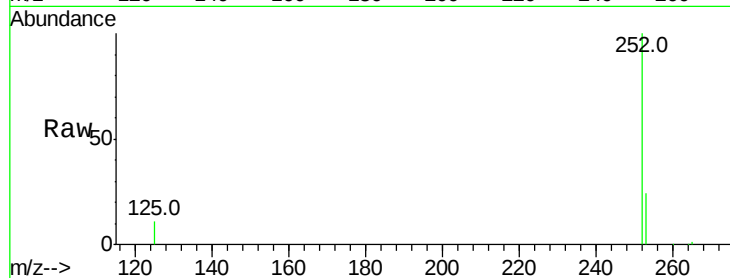
Tot Ion:252 Resp: 21411

Ion Ratio Lower Upper

252 100

253 24.0 20.3 30.5

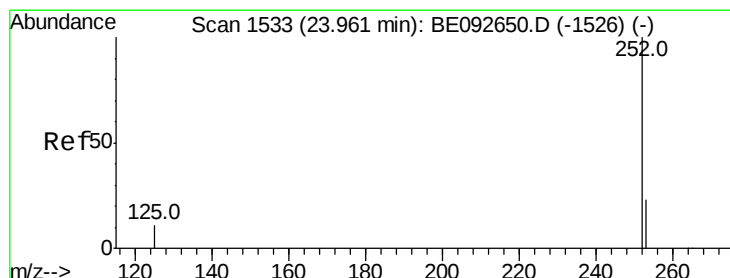
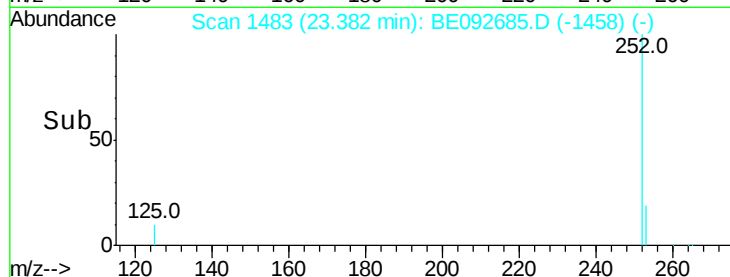
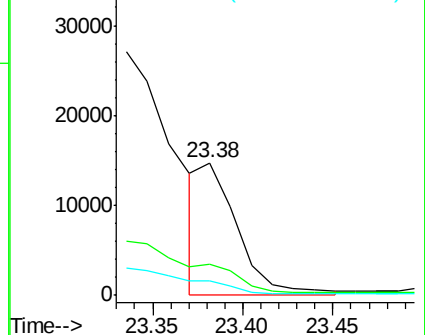
125 11.1 9.6 14.4



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



#34

Benzo(a)pyrene

Concen: 3.20 ng

RT: 23.95 min Scan# 1532

Delta R.T. -0.01 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

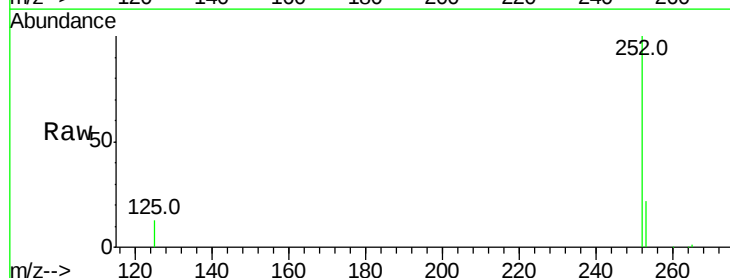
Tgt Ion:252 Resp: 51965

Ion Ratio Lower Upper

252 100

253 21.6 19.0 28.6

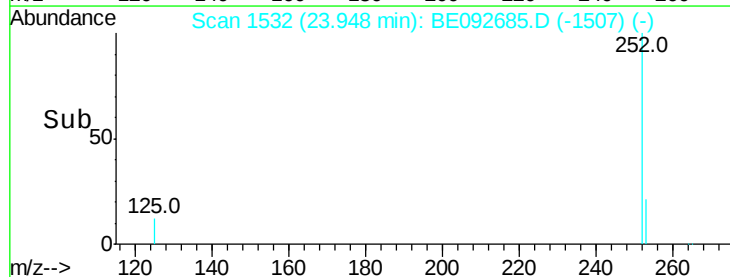
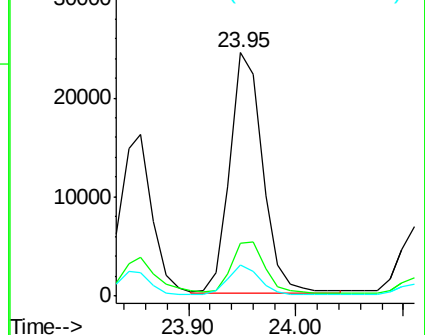
125 12.5 11.8 17.8

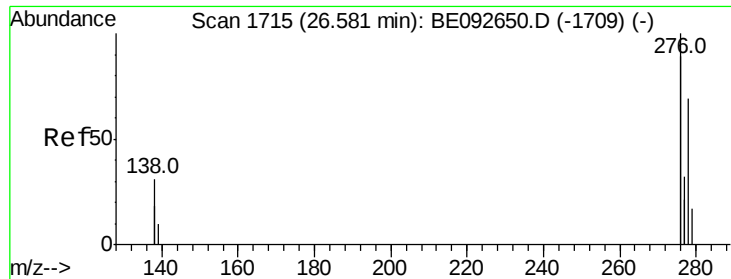


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Dibenzo(a,h)anthracene

Concen: 0.47 ng

RT: 26.55 min Scan# 1713

Delta R.T. -0.03 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

Instrument :

BNA_E

ClientSampleId :

RVE-9DL

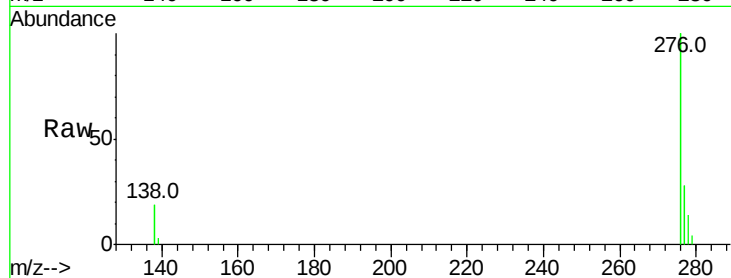
Tot Ion:278 Resp: 7418

Ion Ratio Lower Upper

278 100

139 19.3 13.8 20.8

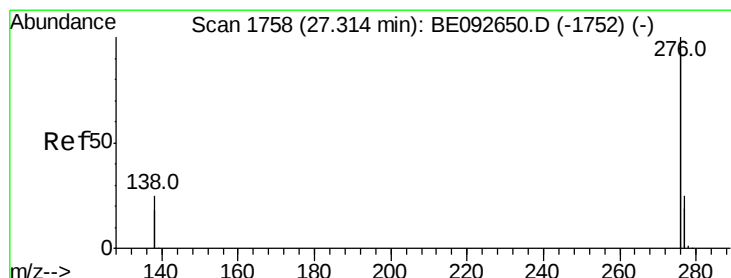
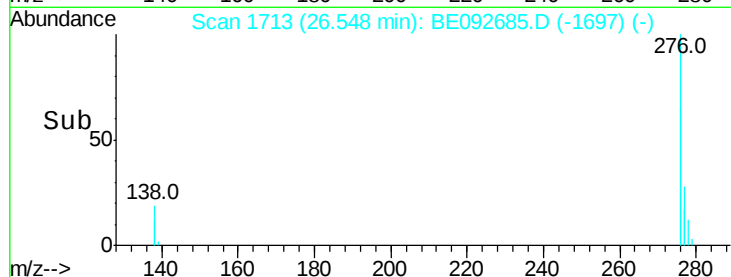
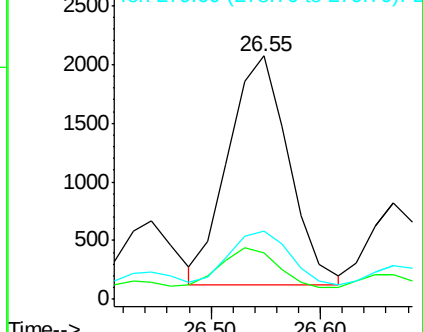
279 28.3 21.4 32.2



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



#36

Benzo(g,h,i)perylene

Concen: 2.15 ng

RT: 27.30 min Scan# 1757

Delta R.T. -0.02 min

Lab File: BE092685.D

Acq: 25 Jan 2017 15:51

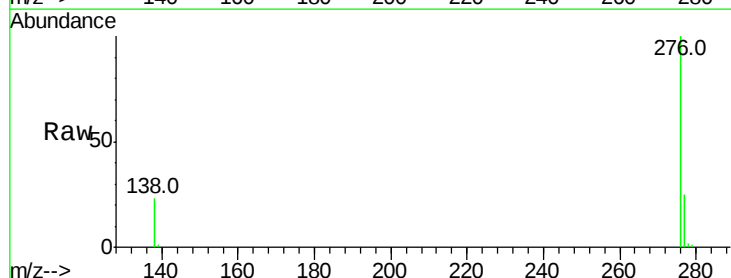
Tgt Ion:276 Resp: 144864

Ion Ratio Lower Upper

276 100

277 25.4 19.8 29.8

138 22.8 19.8 29.6



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

