

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE121417\
 Data File : BE094988.D
 Acq On : 14 Dec 2017 21:57
 Operator : SJ/JU
 Sample : I6876-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 KY038PS027-171211

Quant Time: Dec 15 08:12:57 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 18:42:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.47	152	6856	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	14916	0.40	ng	0.00
13) Acenaphthene-d10	15.06	164	8541	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	19226	0.40	ng	0.00
27) Chrysene-d12	21.87	240	22953	0.40	ng	0.00
34) Perylene-d12	24.55	264	19265	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	2054	0.19	ng	0.00
5) Phenol-d6	7.59	99	1818	0.11	ng	0.00
8) Nitrobenzene-d5	9.65	82	5882	0.48	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	9785	0.40	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	1305	0.66	ng	0.00
15) 2-Fluorobiphenyl	13.70	172	17940	0.47	ng	0.00
25) Fluoranthene-d10	19.75	212	111268	0.45	ng	0.00
29) Terphenyl-d14	20.31	244	24177	0.56	ng	0.00

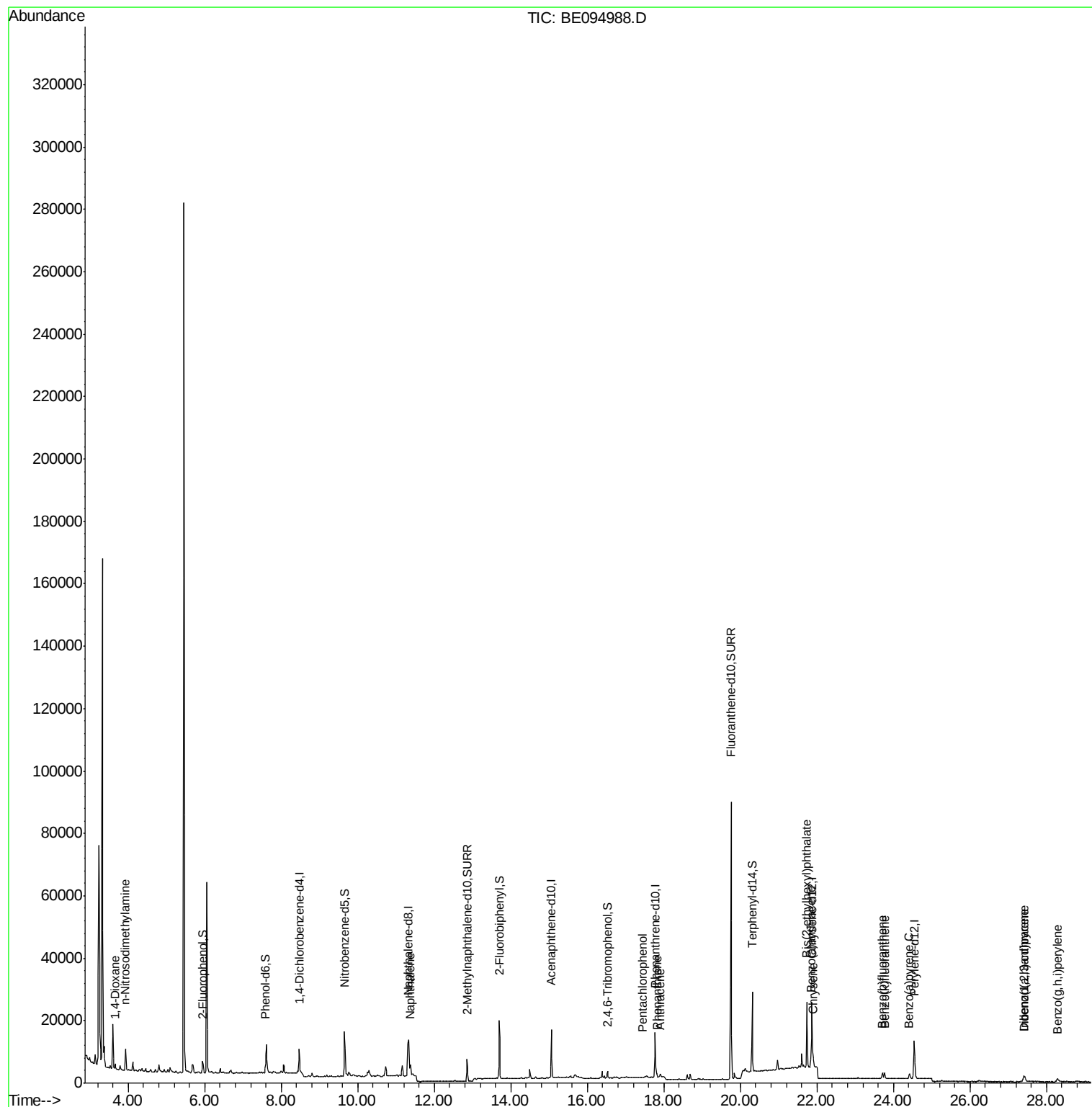
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.66	88	1015	0.150	ng	# 67
3) n-Nitrosodimethylamine	3.93	42	1206	0.151	ng	# 1
9) Naphthalene	11.38	128	5918	0.034	ng	# 96
22) Pentachlorophenol	17.43	266	44	0.095	ng	# 89
23) Phenanthrene	17.82	178	1221	0.020	ng	# 86
24) Anthracene	17.91	178	2379	0.039	ng	# 55
30) Benzo(a)anthracene	21.85	228	2959	0.044	ng	# 68
31) Chrysene	21.90	228	3582	0.047	ng	# 73
32) Bis(2-ethylhexyl)phthalate	21.73	149	31374	0.367	ng	100
33) Indeno(1,2,3-cd)pyrene	27.41	276	2765	0.045	ng	# 90
35) Benzo(b)fluoranthene	23.71	252	2778	0.039	ng	# 75
36) Benzo(k)fluoranthene	23.77	252	2647	0.037	ng	# 65
37) Benzo(a)pyrene	24.43	252	1835	0.029	ng	# 1
38) Dibenzo(a,h)anthracene	27.43	278	2318	0.040	ng	# 64
39) Benzo(g,h,i)perylene	28.29	276	2212	0.038	ng	# 78

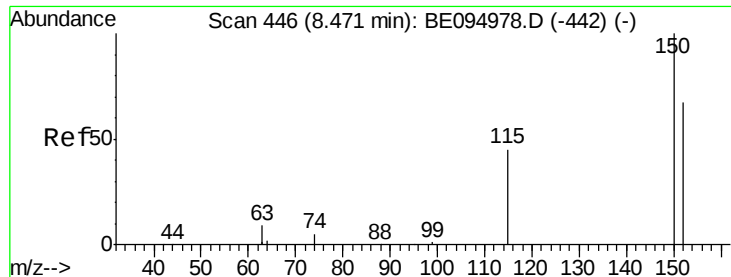
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.47 min Scan# 446

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

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BNA_E

ClientSampleId :

KY038PS027-171211

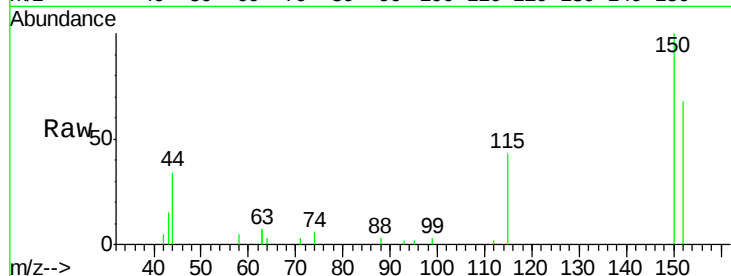
Tgt Ion:152 Resp: 6856

Ion Ratio Lower Upper

152 100

150 147.3 117.2 175.8

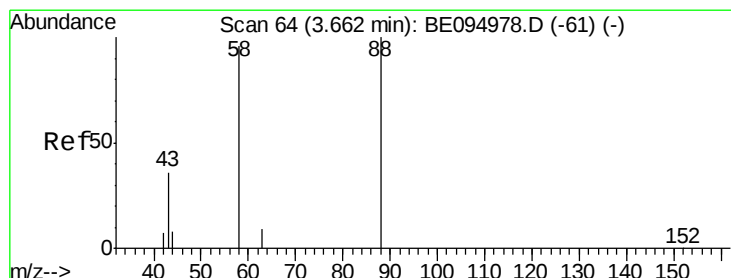
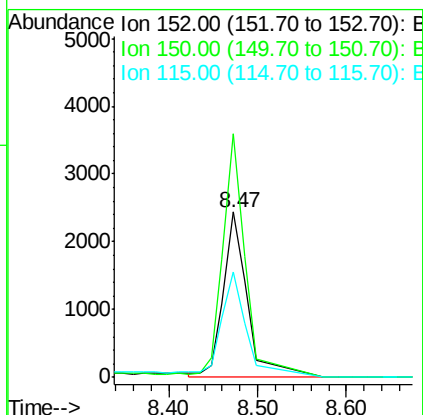
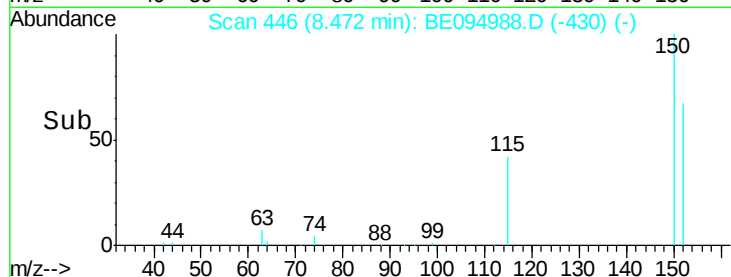
115 64.0 57.0 85.6



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: 0.150 ng

RT: 3.66 min Scan# 64

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

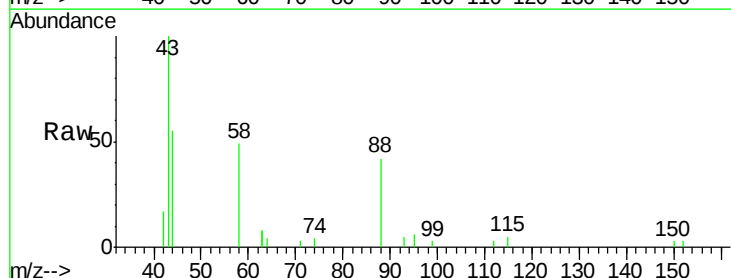
Tgt Ion: 88 Resp: 1015

Ion Ratio Lower Upper

88 100

58 92.0 63.2 94.8

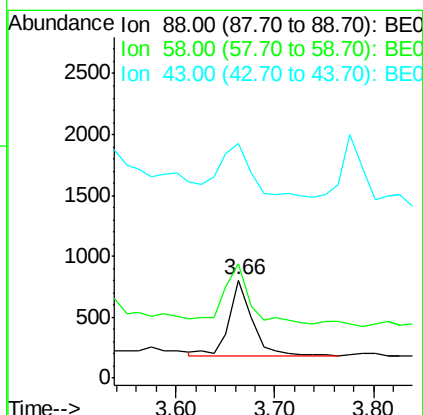
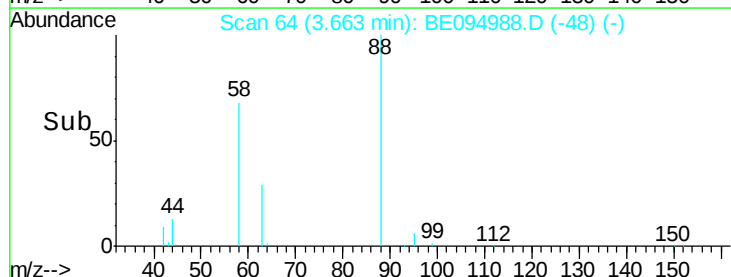
43 93.5 41.2 61.8#

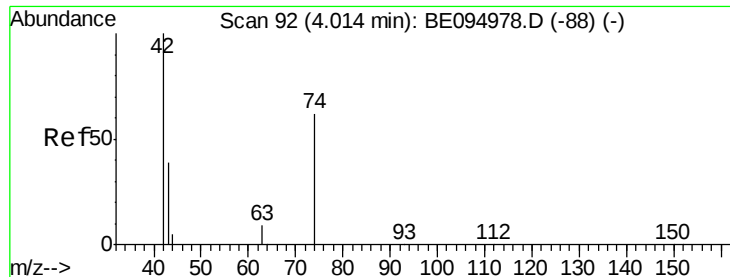


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.151 ng

RT: 3.93 min Scan# 85

Delta R.T. -0.09 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

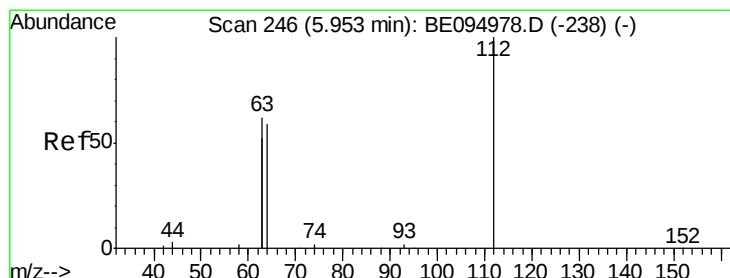
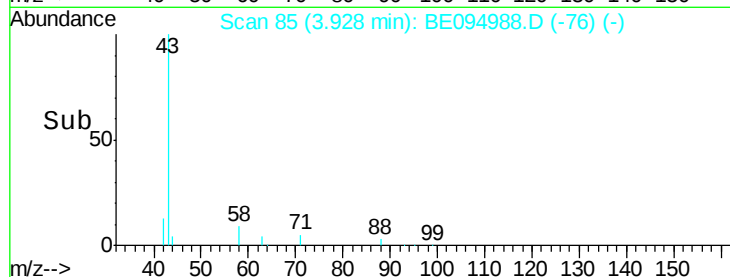
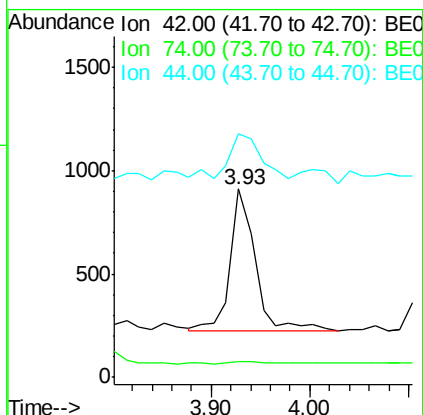
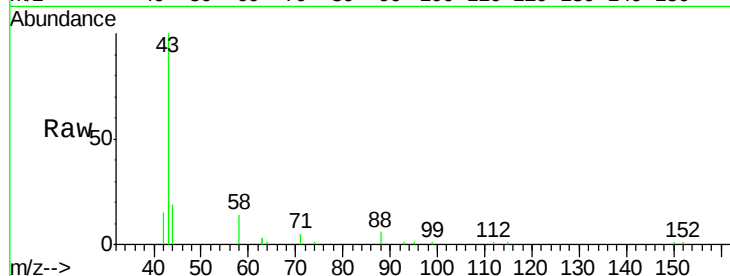
Instrument :

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KY038PS027-171211

Tgt Ion:	42	Resp:	1206
Ion	Ratio	Lower	Upper
42	100		
74	1.7	96.0	144.0#
44	46.3	12.0	18.0#



#4

2-Fluorophenol

Concen: 0.193 ng

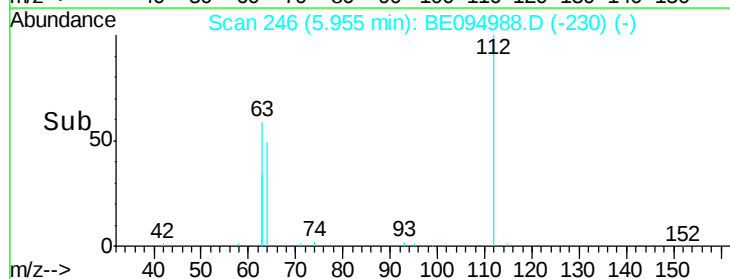
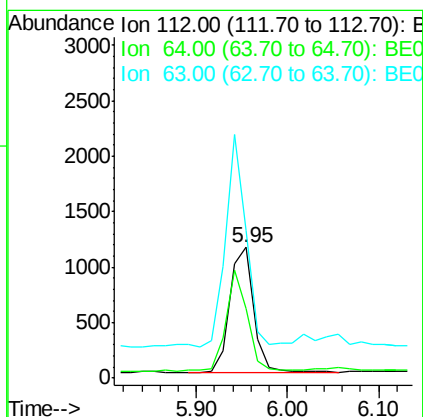
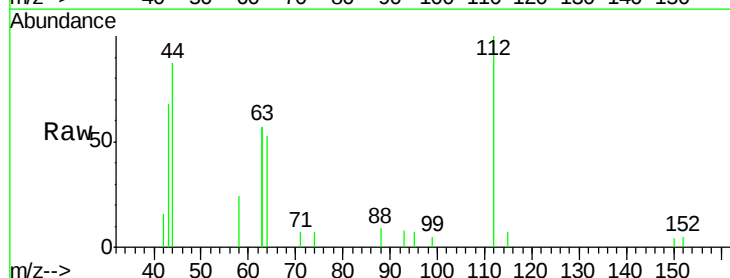
RT: 5.95 min Scan# 246

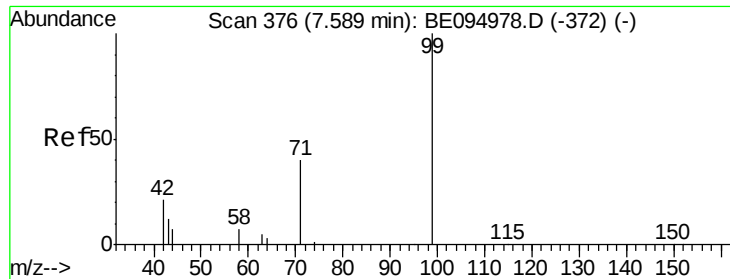
Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Tgt Ion:	112	Resp:	2054
Ion	Ratio	Lower	Upper
112	100		
64	71.8	60.1	90.1
63	149.9	116.8	175.2





#5

Phenol-d6

Concen: 0.115 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

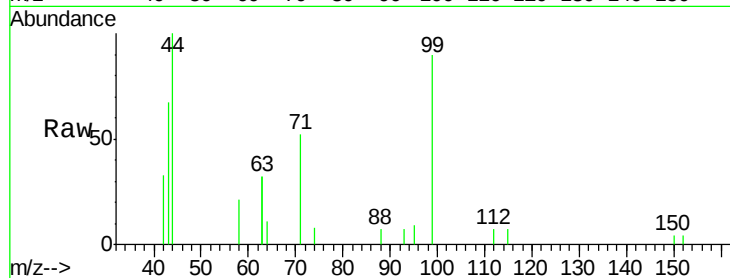
Tgt Ion: 99 Resp: 1818

Ion Ratio Lower Upper

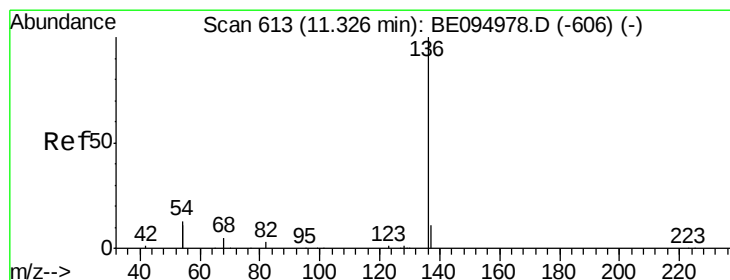
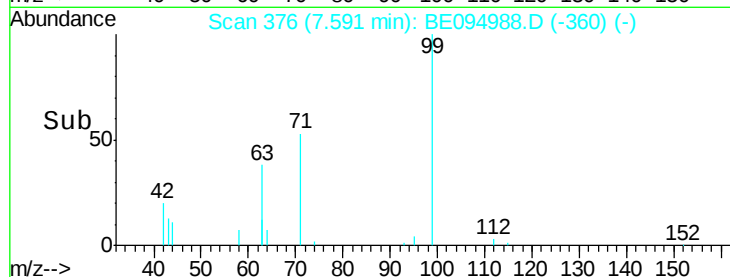
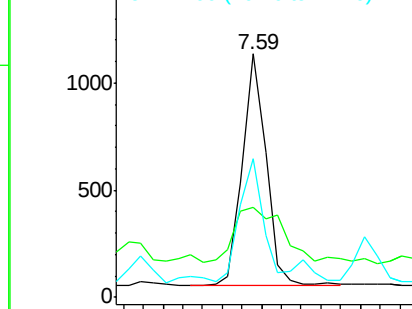
99 100

42 52.1 20.2 30.2#

71 53.5 28.4 42.6#



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Tgt Ion: 136 Resp: 14916

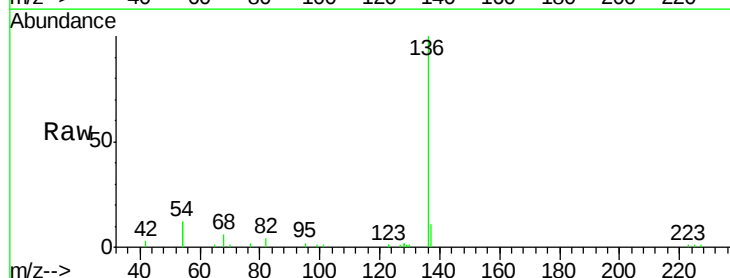
Ion Ratio Lower Upper

136 100

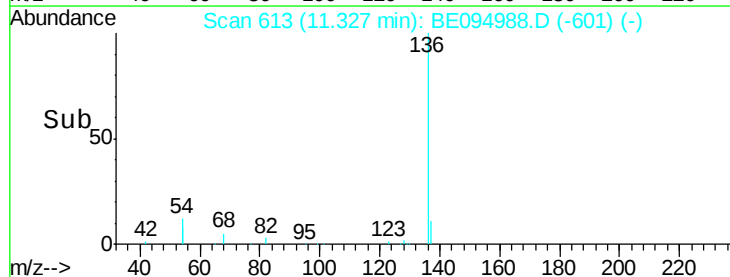
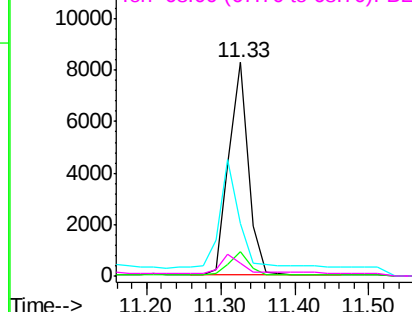
137 11.3 9.5 14.3

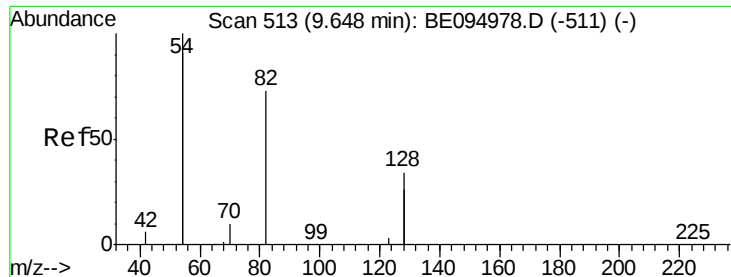
54 24.5 29.1 43.7#

68 5.8 6.2 9.2#



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: 0.481 ng

RT: 9.65 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

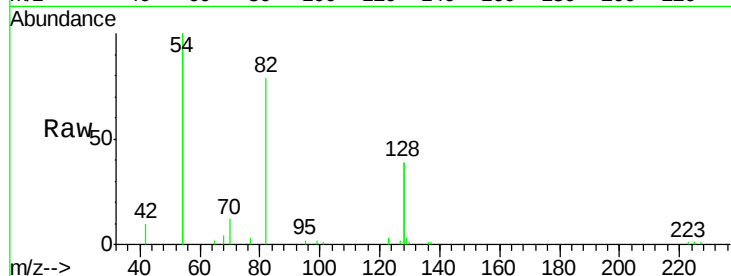
Tgt Ion: 82 Resp: 5882

Ion Ratio Lower Upper

82 100

128 98.0 150.0 225.0#

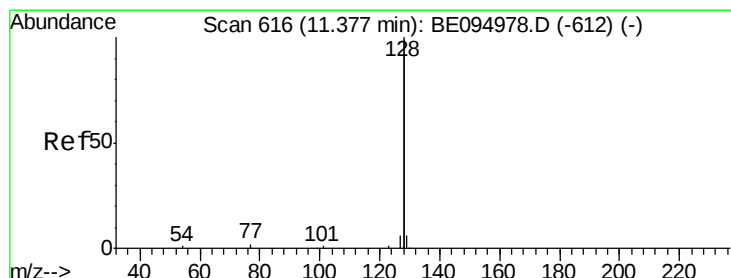
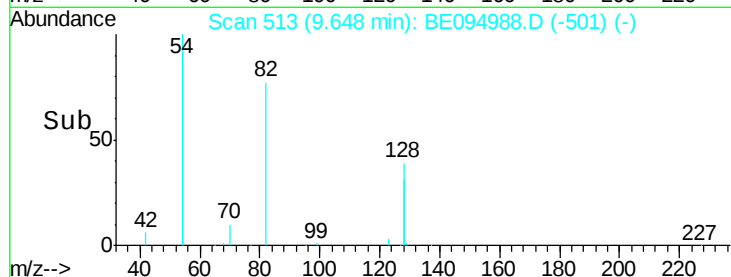
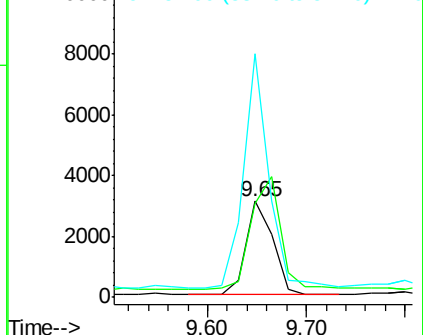
54 253.6 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.034 ng

RT: 11.38 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

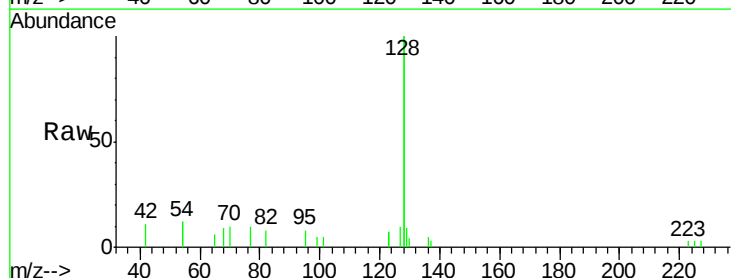
Tgt Ion: 128 Resp: 5918

Ion Ratio Lower Upper

128 100

129 4.3 2.6 3.8#

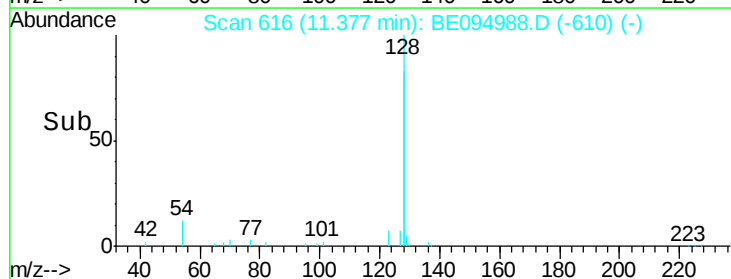
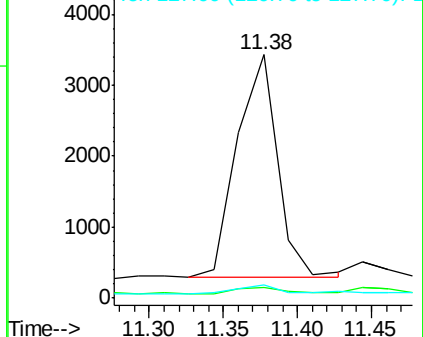
127 5.2 2.8 4.2#

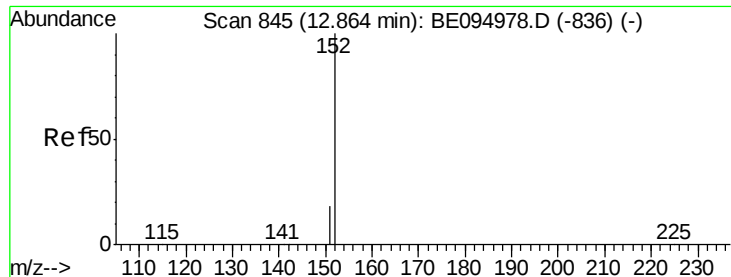


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0

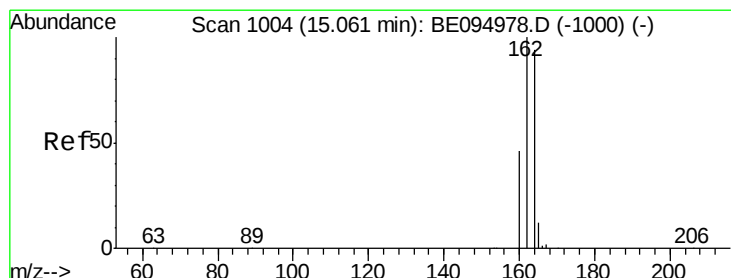
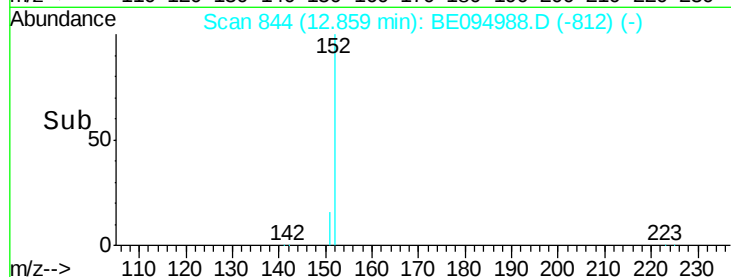
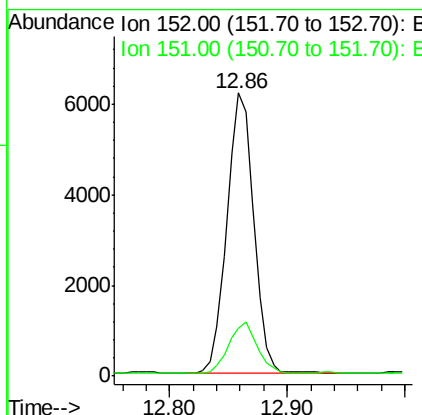
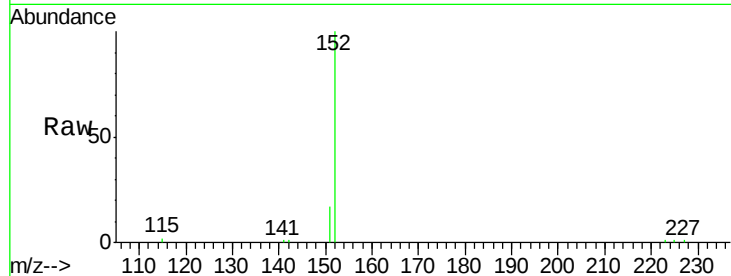




#11
 2-Methylnaphthalene-d10
 Concen: 0.401 ng
 RT: 12.86 min Scan# 844
 Delta R.T. -0.01 min
 Lab File: BE094988.D
 Acq: 14 Dec 2017 21:57

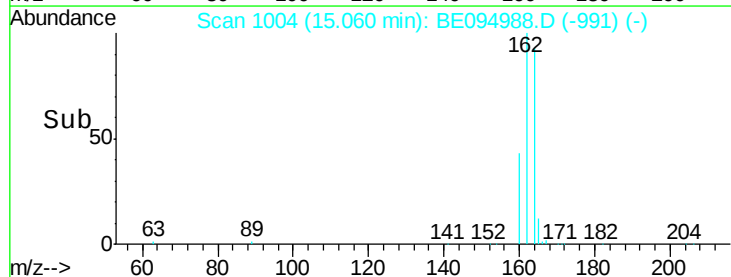
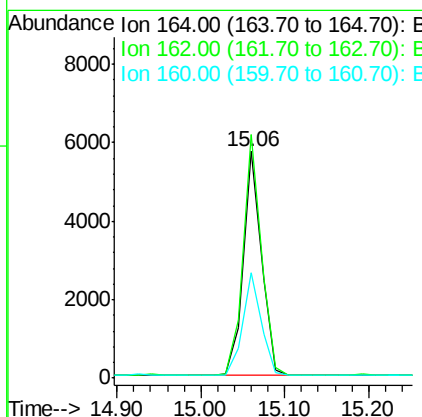
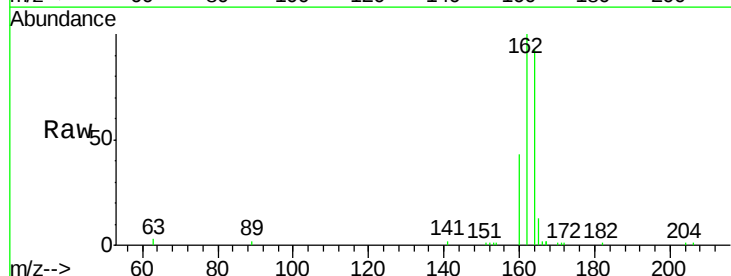
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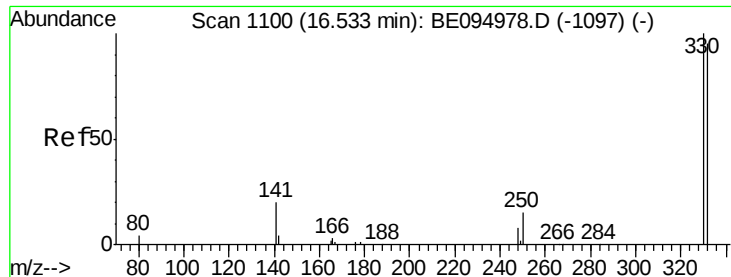
Tgt Ion:152 Resp: 9785
 Ion Ratio Lower Upper
 152 100
 151 19.5 15.4 23.0



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 15.06 min Scan# 1004
 Delta R.T. -0.00 min
 Lab File: BE094988.D
 Acq: 14 Dec 2017 21:57

Tgt Ion:164 Resp: 8541
 Ion Ratio Lower Upper
 164 100
 162 107.4 83.1 124.7
 160 46.4 37.1 55.7

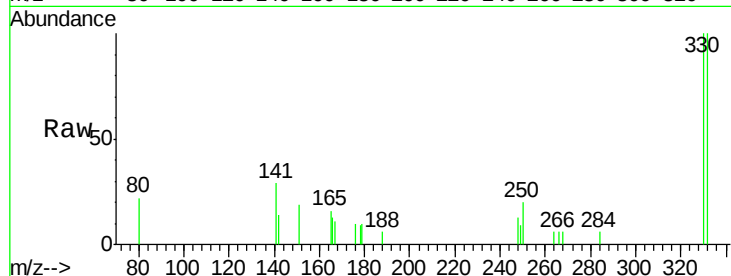




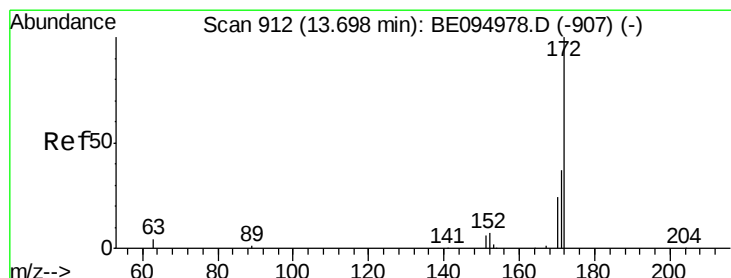
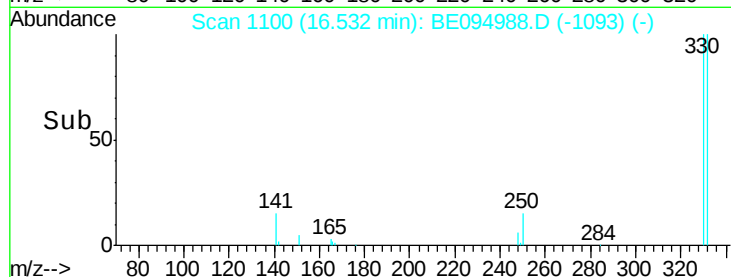
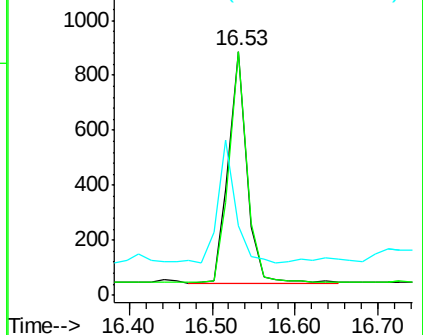
#14
 2,4,6-Tribromophenol
 Concen: 0.657 ng
 RT: 16.53 min Scan# 1100
 Delta R.T. -0.00 min
 Lab File: BE094988.D
 Acq: 14 Dec 2017 21:57

Instrument :
 BNA_E
 ClientSampleId :
 KY038PS027-171211

Tgt Ion: 330 Resp: 1305
 Ion Ratio Lower Upper
 330 100
 332 95.6 152.7 229.1#
 141 50.3 33.7 50.5

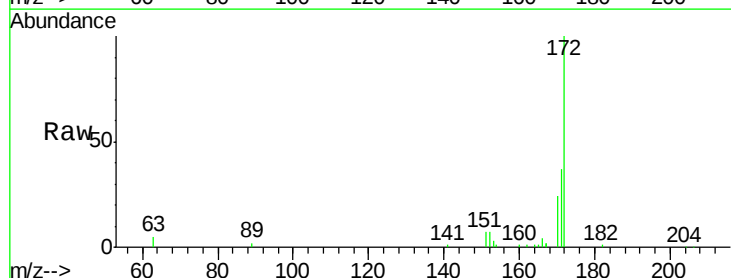


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

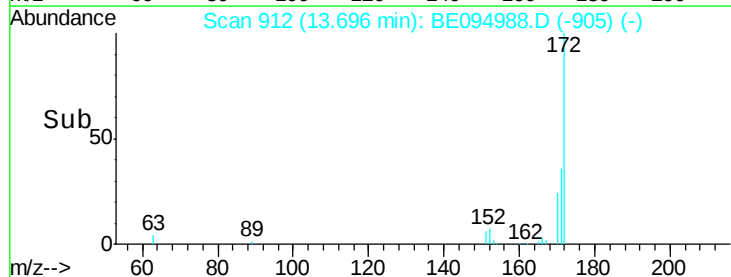
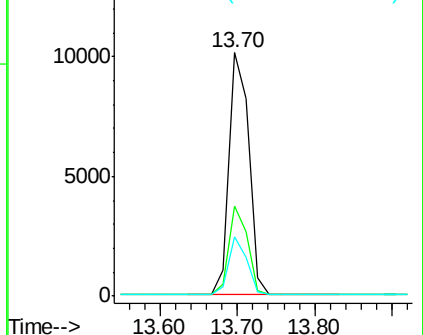


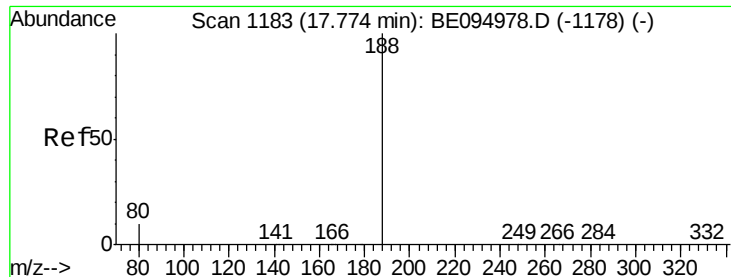
#15
 2-Fluorobiphenyl
 Concen: 0.474 ng
 RT: 13.70 min Scan# 912
 Delta R.T. -0.00 min
 Lab File: BE094988.D
 Acq: 14 Dec 2017 21:57

Tgt Ion: 172 Resp: 17940
 Ion Ratio Lower Upper
 172 100
 171 36.7 29.9 44.9
 170 24.2 21.8 32.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

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ClientSampleId :

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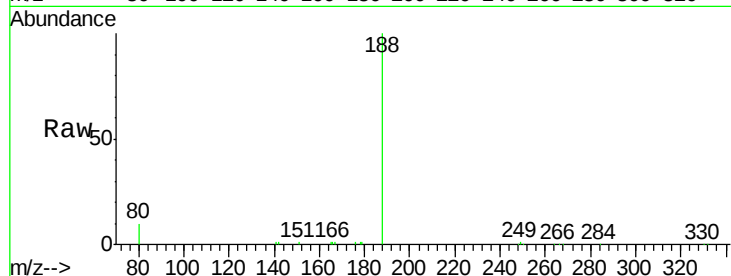
Tgt Ion:188 Resp: 19226

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

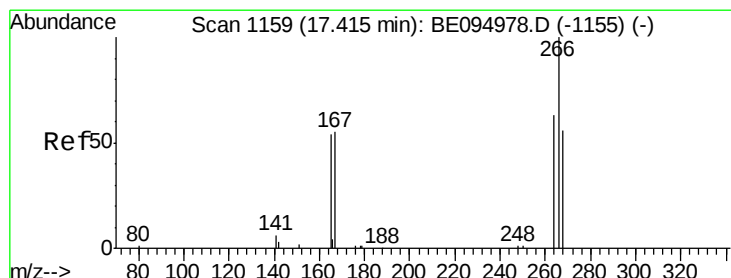
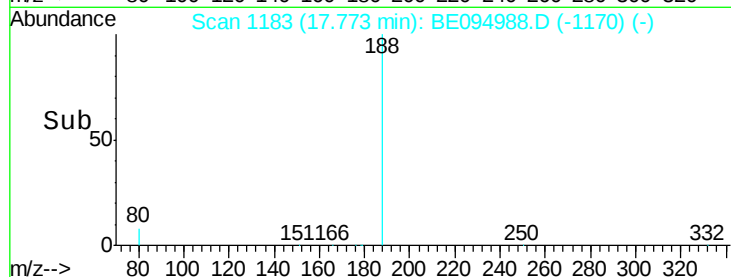
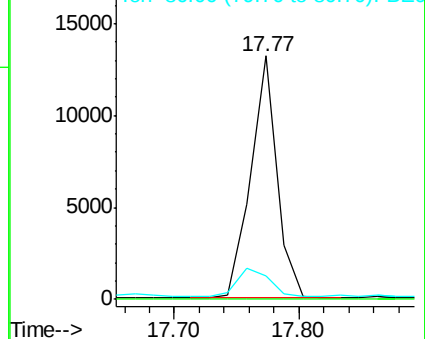
80 9.6 3.6 5.4#



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



#22

Pentachlorophenol

Concen: 0.095 ng

RT: 17.43 min Scan# 1160

Delta R.T. 0.01 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

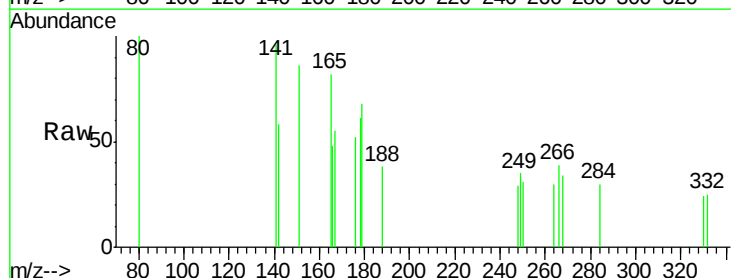
Tgt Ion:266 Resp: 44

Ion Ratio Lower Upper

266 100

264 76.4 72.5 108.7

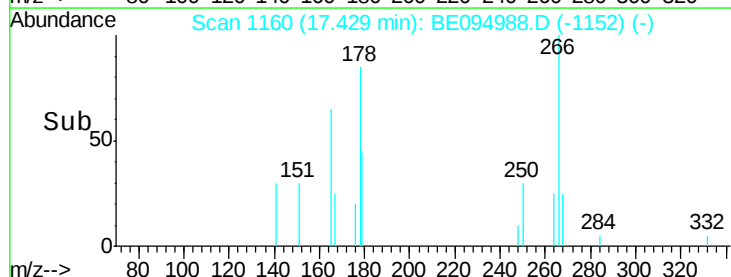
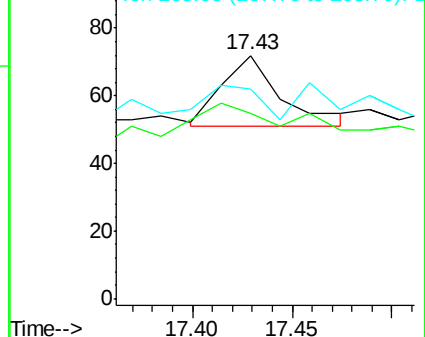
268 86.1 73.8 110.6

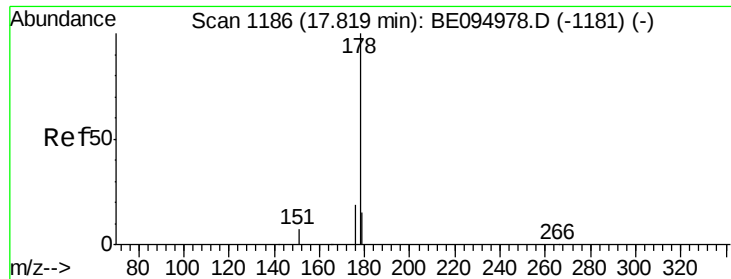


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.020 ng

RT: 17.82 min Scan# 1186

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

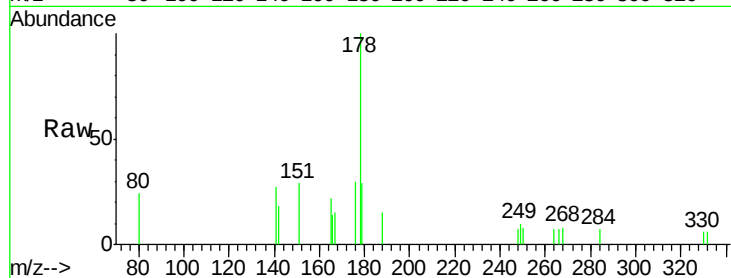
Tgt Ion:178 Resp: 1221

Ion Ratio Lower Upper

178 100

176 29.2 15.1 22.7#

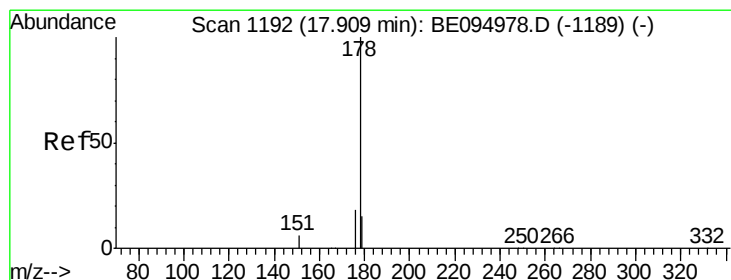
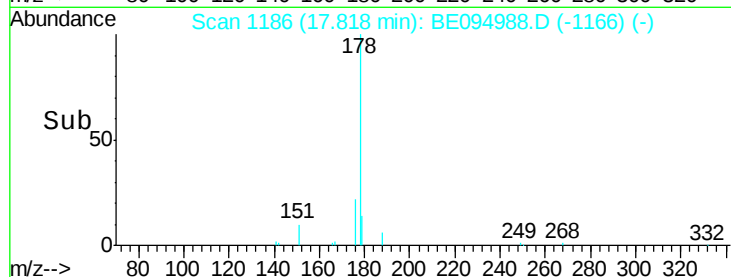
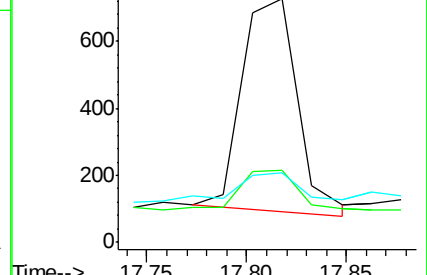
179 14.1 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.039 ng

RT: 17.91 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

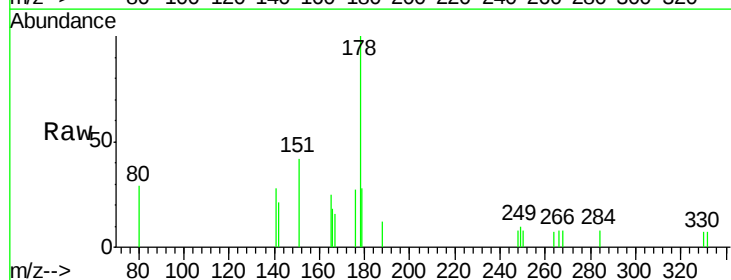
Tgt Ion:178 Resp: 2379

Ion Ratio Lower Upper

178 100

176 42.9 12.8 19.2#

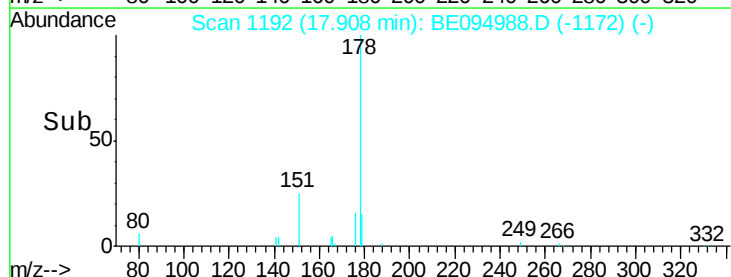
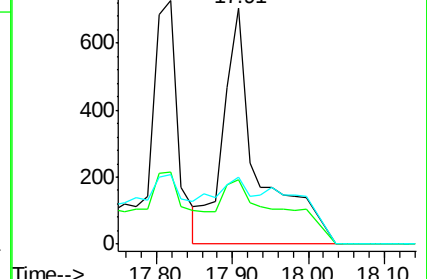
179 4.4 13.0 19.6#

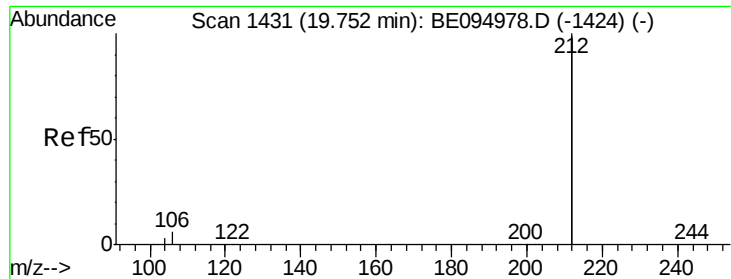


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.446 ng

RT: 19.75 min Scan# 1431

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

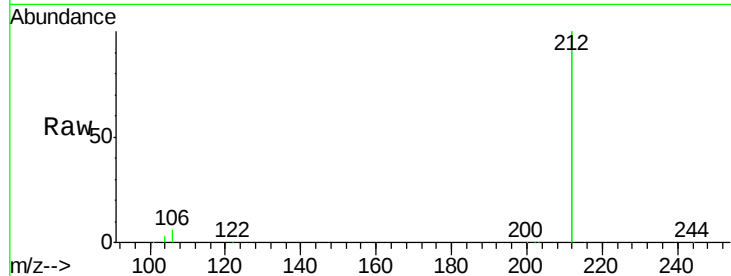
Tgt Ion:212 Resp: 111268

Ion Ratio Lower Upper

212 100

106 3.3 2.8 4.2

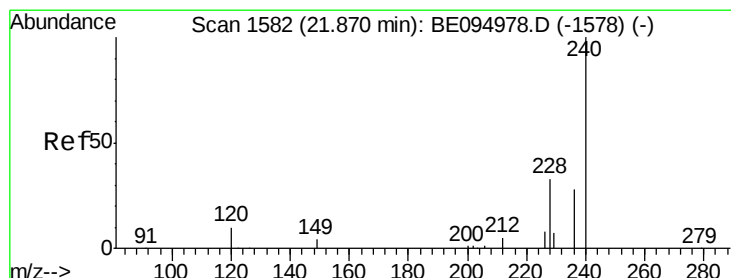
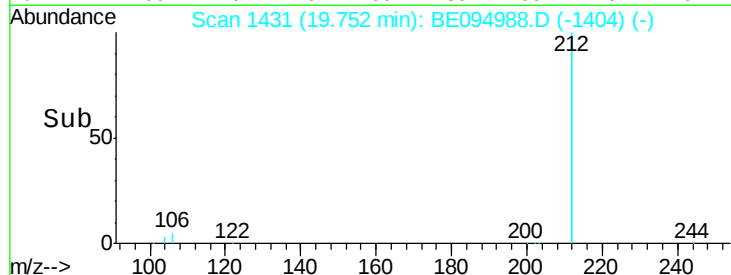
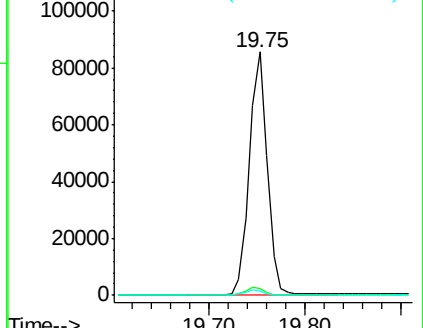
104 2.0 1.6 2.4



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

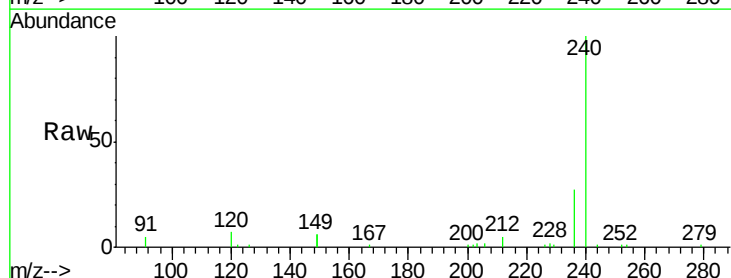
Tgt Ion:240 Resp: 22953

Ion Ratio Lower Upper

240 100

120 7.4 5.5 8.3

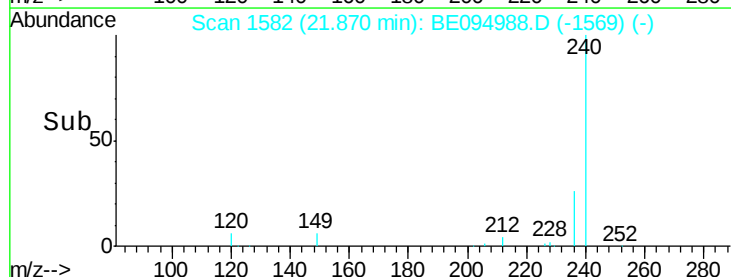
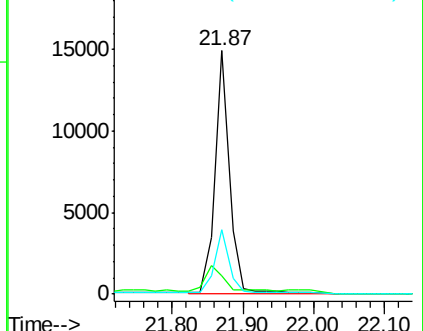
236 26.6 20.7 31.1

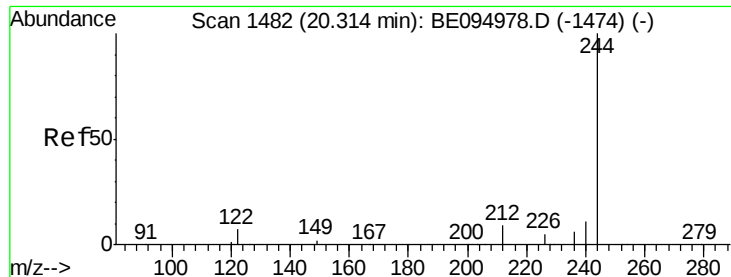


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.560 ng

RT: 20.31 min Scan# 1482

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

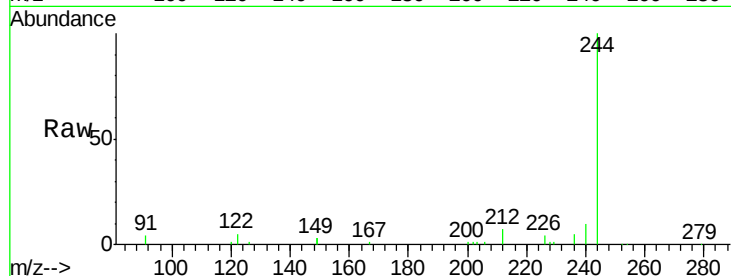
Tgt Ion:244 Resp: 24177

Ion Ratio Lower Upper

244 100

212 7.3 25.4 38.0#

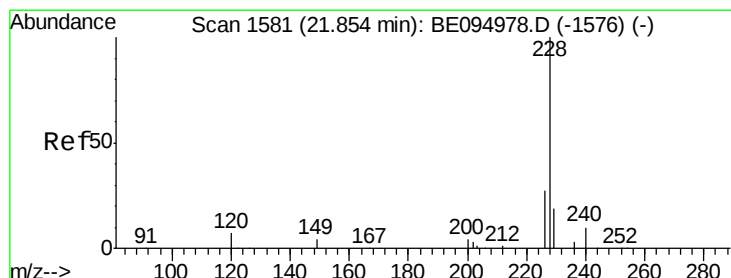
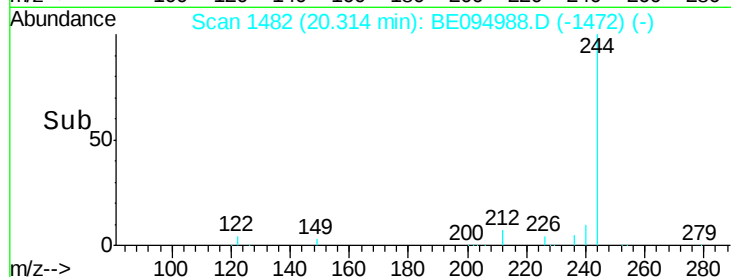
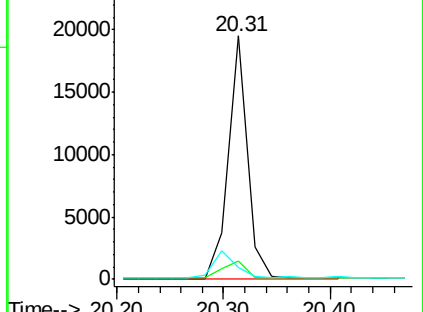
122 5.1 8.1 12.1#



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: 0.044 ng

RT: 21.85 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

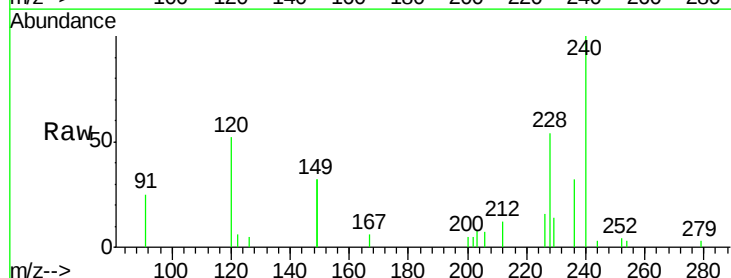
Tgt Ion:228 Resp: 2959

Ion Ratio Lower Upper

228 100

226 29.9 40.0 60.0#

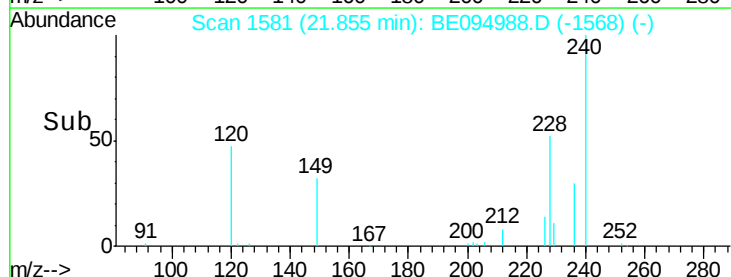
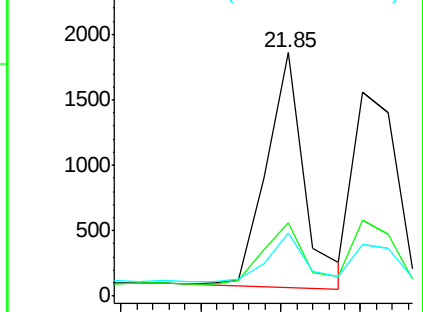
229 26.0 40.0 60.0#

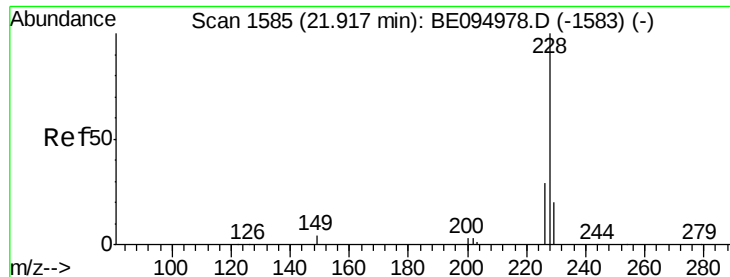


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.047 ng

RT: 21.90 min Scan# 1584

Delta R.T. -0.02 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

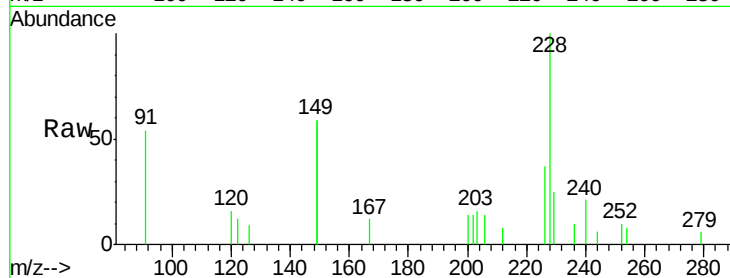
Tgt Ion:228 Resp: 3582

Ion Ratio Lower Upper

228 100

226 37.3 40.0 60.0#

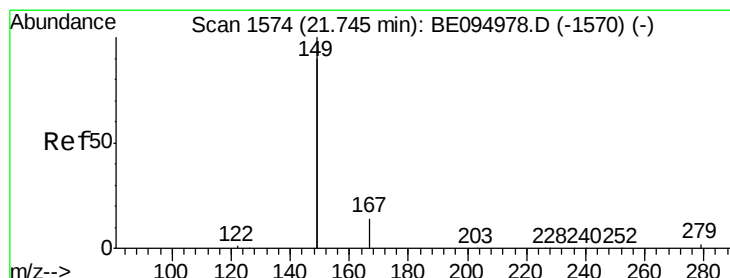
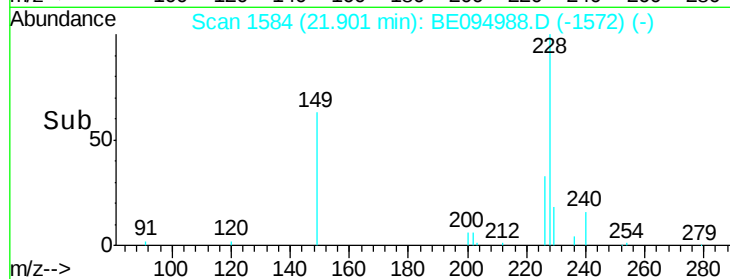
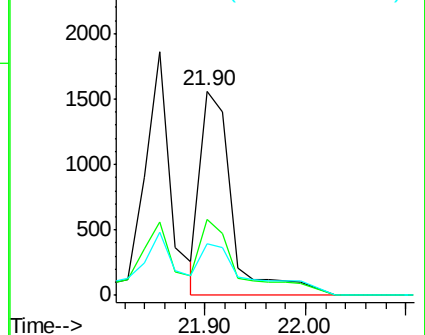
229 25.1 40.0 60.0#



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: 0.367 ng

RT: 21.73 min Scan# 1573

Delta R.T. -0.02 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

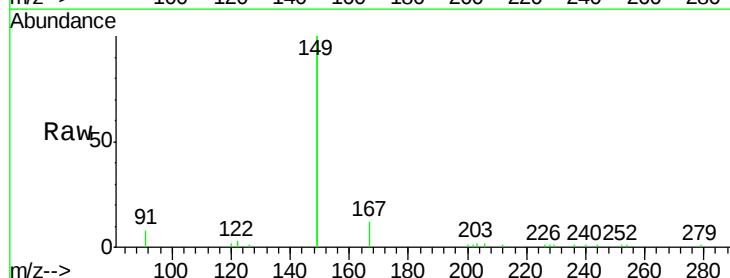
Tgt Ion:149 Resp: 31374

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

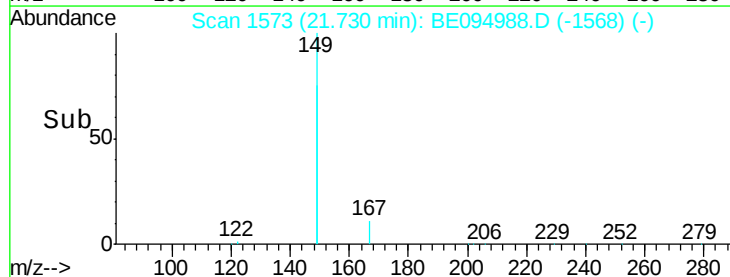
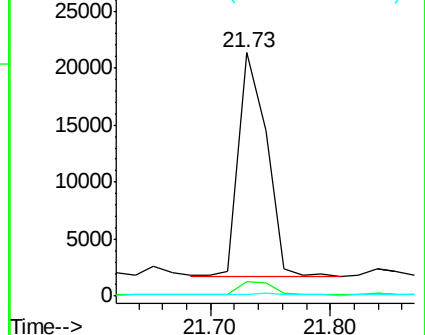
279 0.8 0.7 1.1

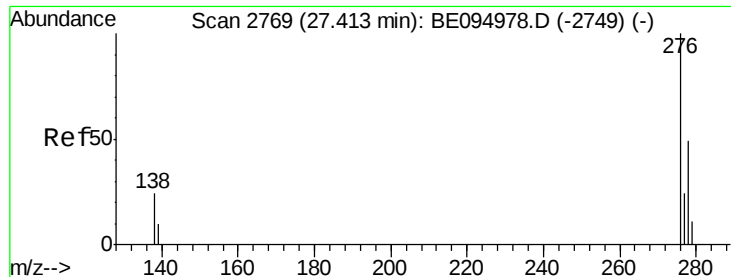


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.045 ng

RT: 27.41 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

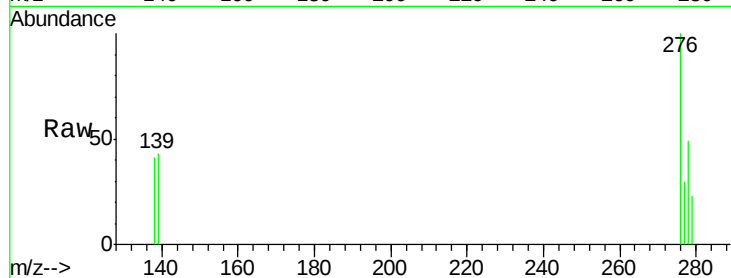
Tgt Ion:276 Resp: 2765

Ion Ratio Lower Upper

276 100

138 38.1 22.5 33.7#

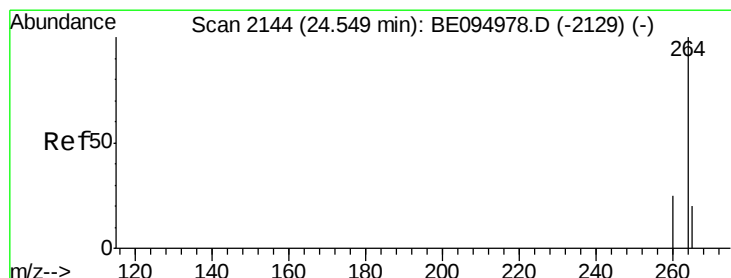
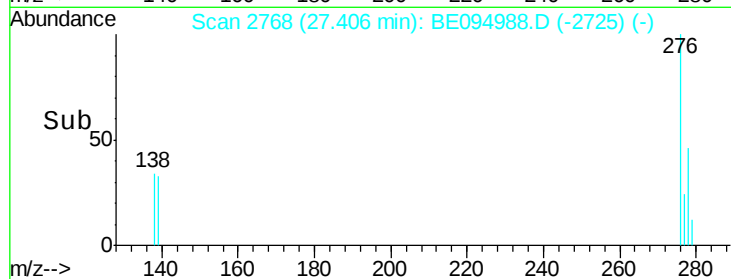
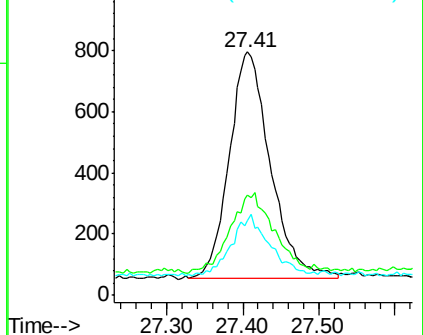
277 25.4 19.9 29.9



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.55 min Scan# 2144

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

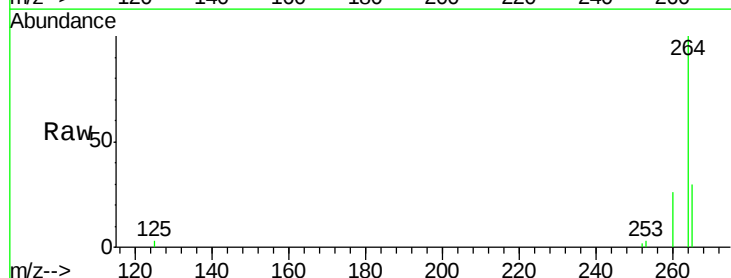
Tgt Ion:264 Resp: 19265

Ion Ratio Lower Upper

264 100

260 26.0 20.5 30.7

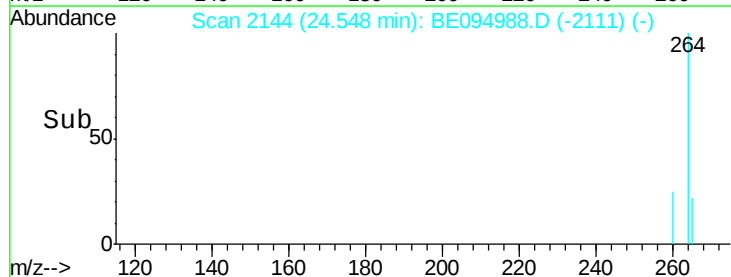
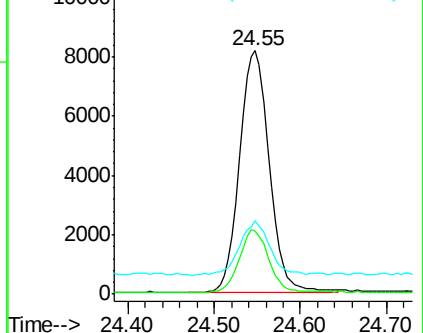
265 29.9 22.8 34.2

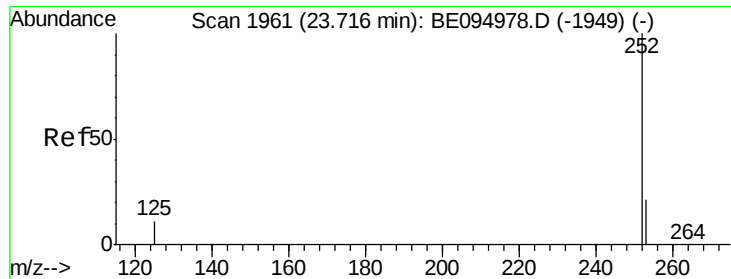


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.039 ng

RT: 23.71 min Scan# 1960

Delta R.T. -0.01 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

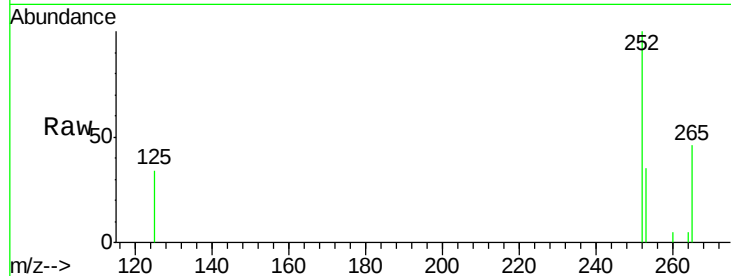
Tgt Ion: 252 Resp: 2778

Ion Ratio Lower Upper

252 100

253 35.4 20.0 30.0#

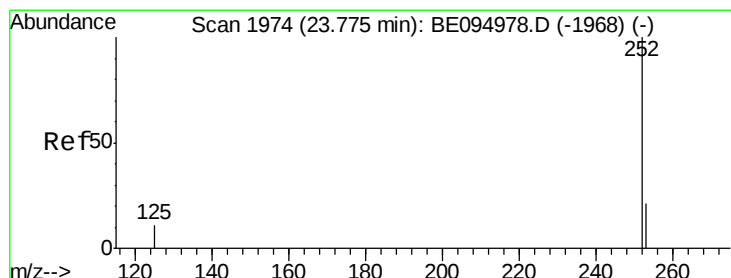
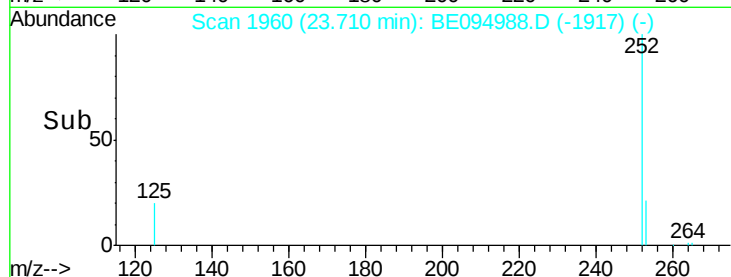
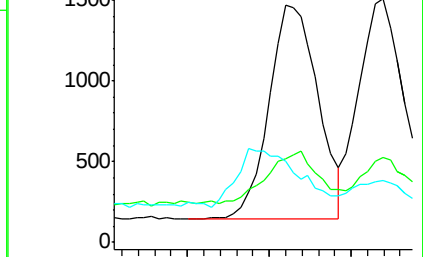
125 34.0 16.0 24.0#



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: 0.037 ng

RT: 23.77 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

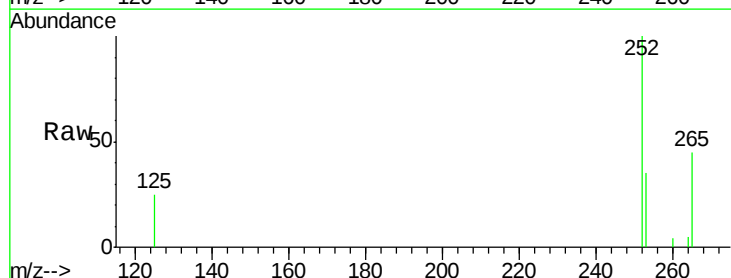
Tgt Ion: 252 Resp: 2647

Ion Ratio Lower Upper

252 100

253 34.6 16.0 24.0#

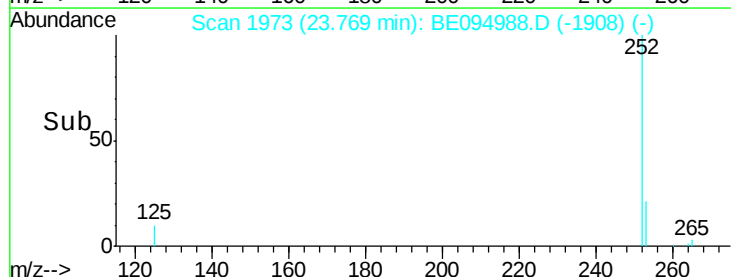
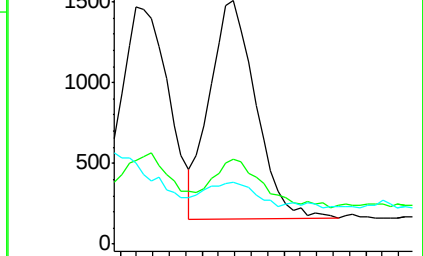
125 25.3 8.0 12.0#

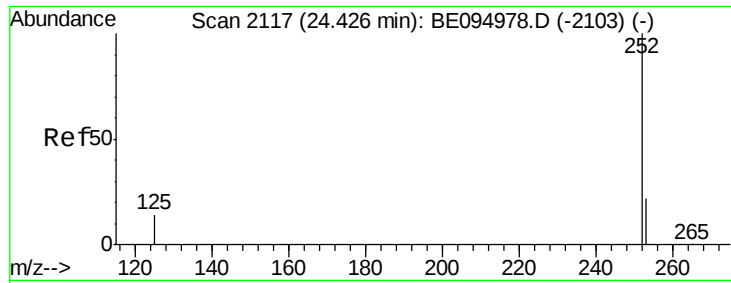


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.029 ng

RT: 24.43 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211

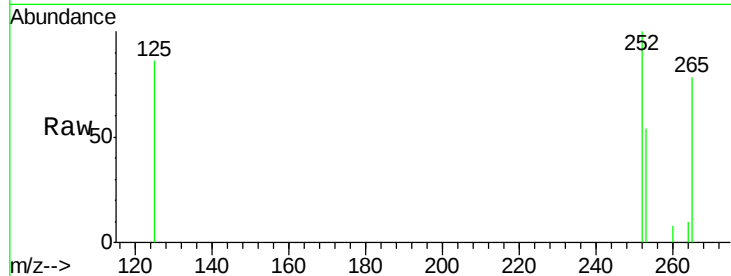
Tgt Ion: 252 Resp: 1835

Ion Ratio Lower Upper

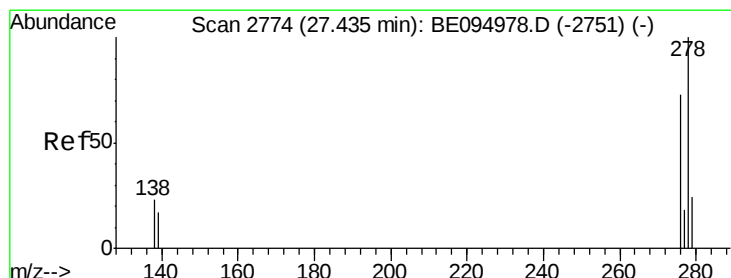
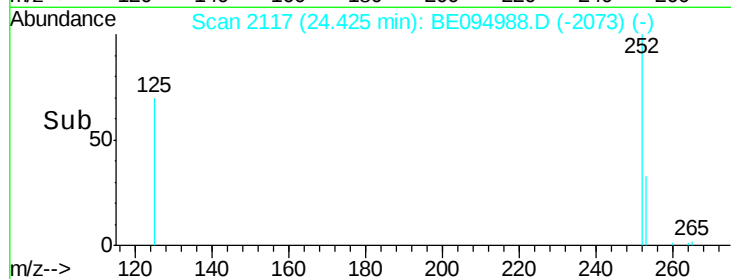
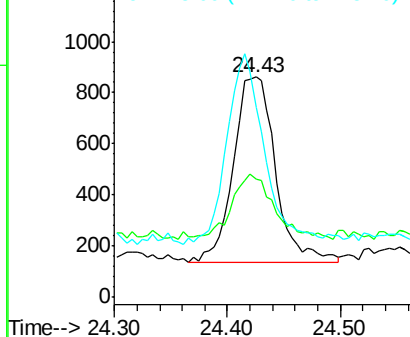
252 100

253 53.5 16.0 24.0#

125 86.1 12.0 18.0#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.040 ng

RT: 27.43 min Scan# 2774

Delta R.T. -0.00 min

Lab File: BE094988.D

Acq: 14 Dec 2017 21:57

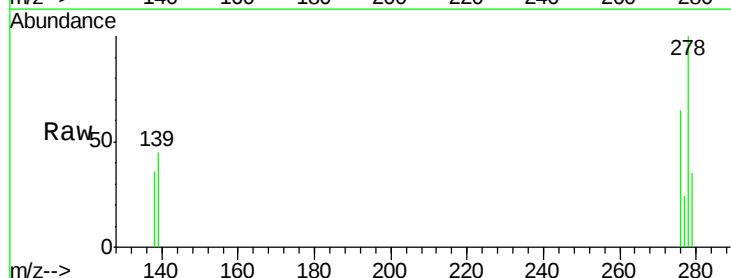
Tgt Ion: 278 Resp: 2318

Ion Ratio Lower Upper

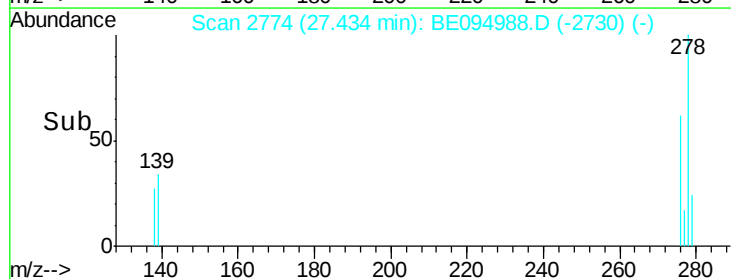
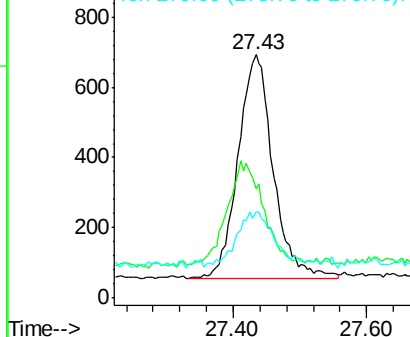
278 100

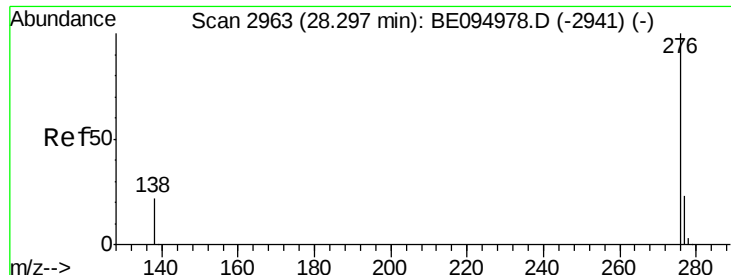
139 45.0 16.0 24.0#

279 35.4 20.0 30.0#



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





#39

Benzo(g,h,i)perylene

Concen: 0.038 ng

RT: 28.29 min Scan# 2962

Delta R.T. -0.01 min

Lab File: BE094988.D

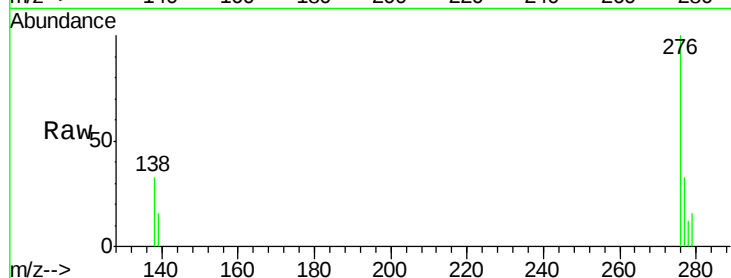
Acq: 14 Dec 2017 21:57

Instrument :

BNA_E

ClientSampleId :

KY038PS027-171211



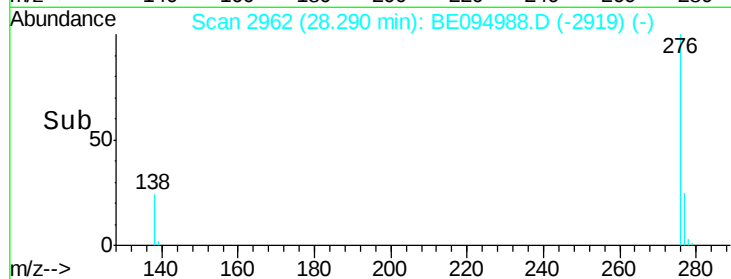
Tgt Ion: 276 Resp: 2212

Ion Ratio Lower Upper

276 100

277 32.8 16.0 24.0#

138 33.4 20.0 30.0#



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

800

600

400

200

0

28.20 28.30 28.40

Time-->