

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE070119\
 Data File : BE100288.D
 Acq On : 2 Jul 2019 5:58
 Operator : JU/SJ
 Sample : K3448-08DL 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PST-007-SW048-061819DL

Quant Time: Jul 02 07:00:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE062819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 14:06:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.64	152	1001	0.40	ng	0.00
7) Naphthalene-d8	10.45	136	3490	0.40	ng	0.00
13) Acenaphthene-d10	14.33	164	2641	0.40	ng	0.02
19) Phenanthrene-d10	17.07	188	7327	0.40	ng	0.01
27) Chrysene-d12	21.24	240	9045	0.40	ng	0.00
34) Perylene-d12	23.68	264	10628	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.23	112	155	0.06	ng	0.01
5) Phenol-d6	6.85	99	192	0.06	ng	0.01
8) Nitrobenzene-d5	8.82	82	188	0.05	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	393	0.06	ng	0.00
14) 2,4,6-Tribromophenol	15.82	330	121	0.07	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	632	0.06	ng	0.00
25) Fluoranthene-d10	19.10	212	6118	0.06	ng	0.00
29) Terphenyl-d14	19.70	244	1639	0.09	ng	0.00

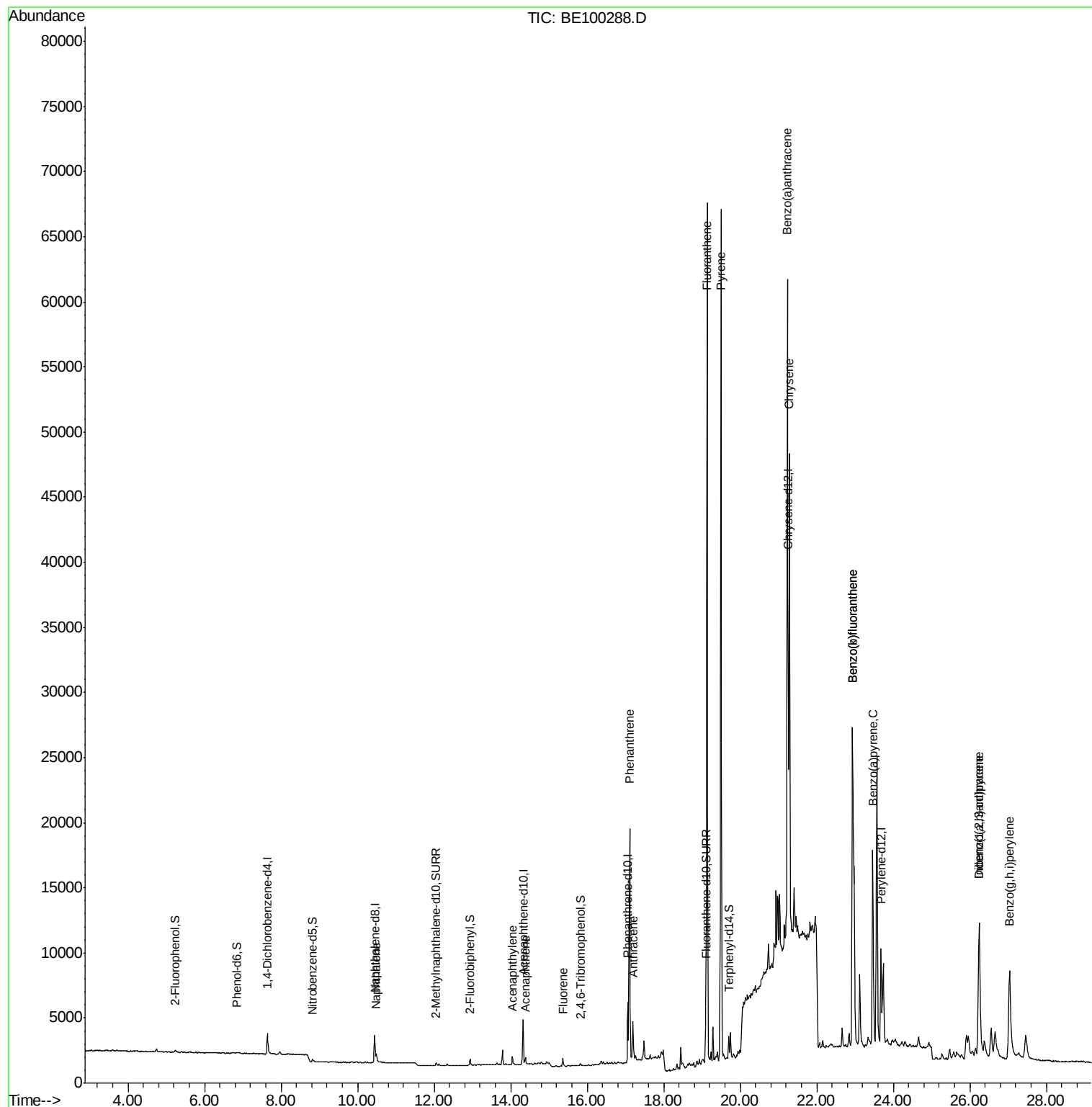
Target Compounds				Qvalue		
9) Naphthalene	10.48	128	1112	0.029	ng	# 84
16) Acenaphthylene	14.04	152	965	0.076	ng	97
17) Acenaphthene	14.39	154	266	0.037	ng	95
18) Fluorene	15.37	166	533	0.050	ng	# 91
23) Phenanthrene	17.11	178	19098	1.075	ng	100
24) Anthracene	17.20	178	3945	0.247	ng	98
26) Fluoranthene	19.13	202	61889	2.188	ng	99
28) Pyrene	19.49	202	60130	2.511	ng	96
30) Benzo(a)anthracene	21.23	228	42554	1.431	ng	97
31) Chrysene	21.28	228	35682	1.195	ng	95
33) Indeno(1,2,3-cd)pyrene	26.24	276	22196	0.562	ng	# 96
35) Benzo(b)fluoranthene	22.93	252	46691	1.620	ng	97
36) Benzo(k)fluoranthene	22.93	252	46691	1.452	ng	# 95
37) Benzo(a)pyrene	23.46	252	23640	0.819	ng	97
38) Dibenzo(a,h)anthracene	26.25	278	5164	0.171	ng	# 65
39) Benzo(g,h,i)perylene	27.04	276	21348	0.689	ng	93

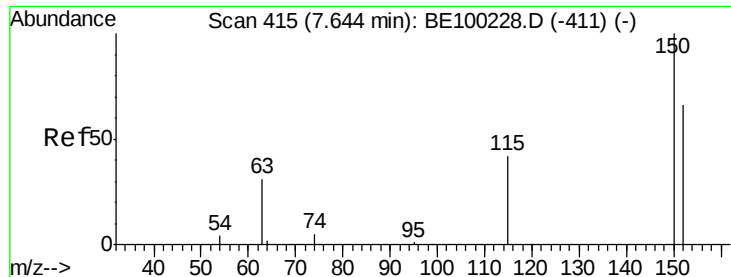
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.64 min Scan# 415

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

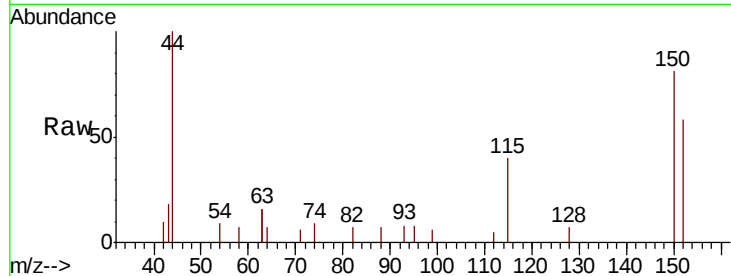
Tgt Ion:152 Resp: 1001

Ion Ratio Lower Upper

152 100

150 139.7 114.5 171.7

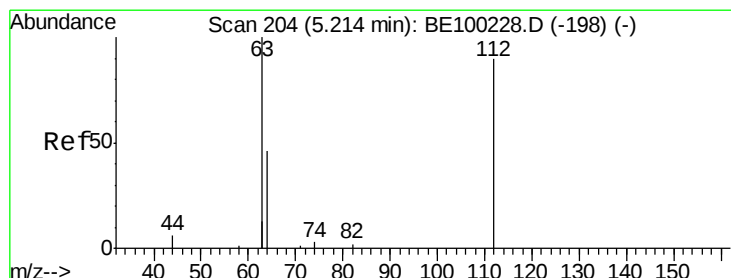
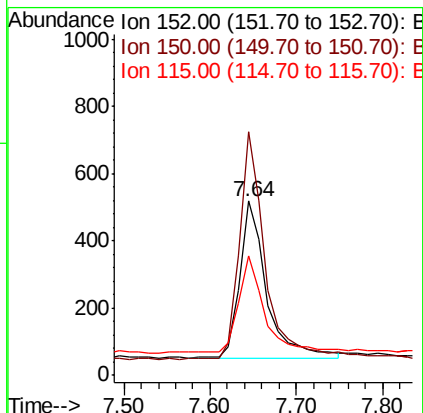
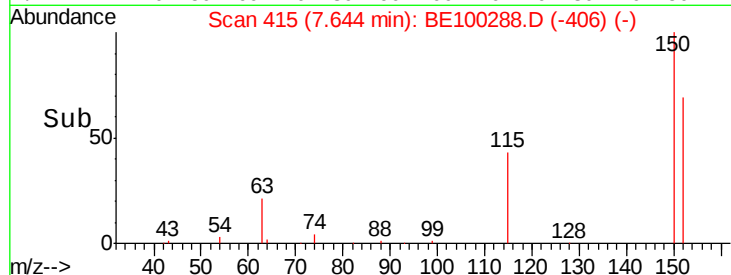
115 68.2 57.1 85.7



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: 0.061 ng

RT: 5.23 min Scan# 205

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

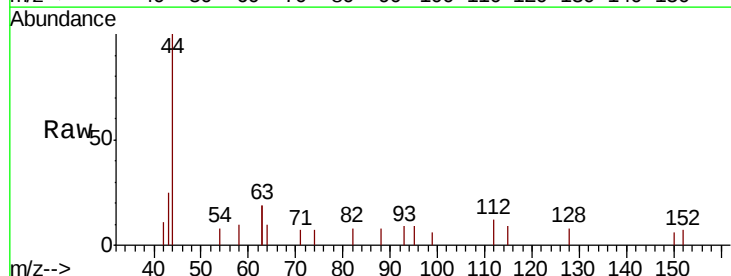
Tgt Ion:112 Resp: 155

Ion Ratio Lower Upper

112 100

64 60.0 39.4 59.0#

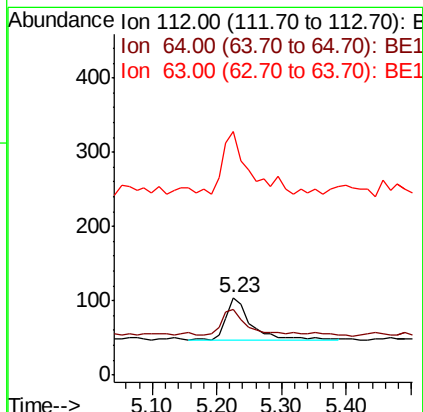
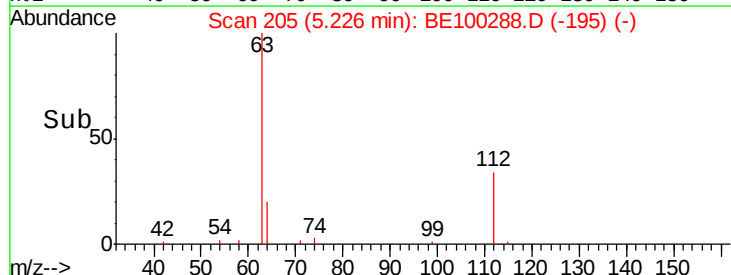
63 147.7 104.5 156.7

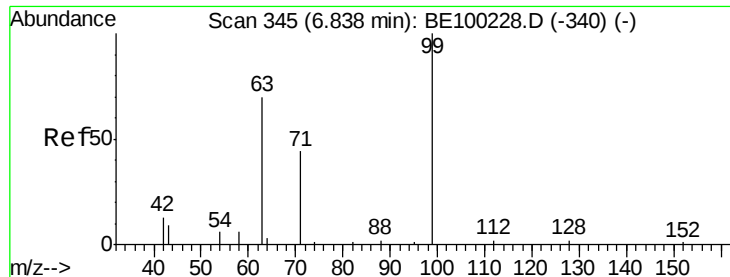


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.057 ng

RT: 6.85 min Scan# 346

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

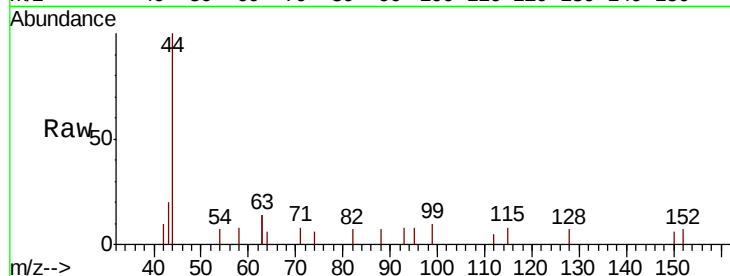
Tgt Ion: 99 Resp: 192

Ion Ratio Lower Upper

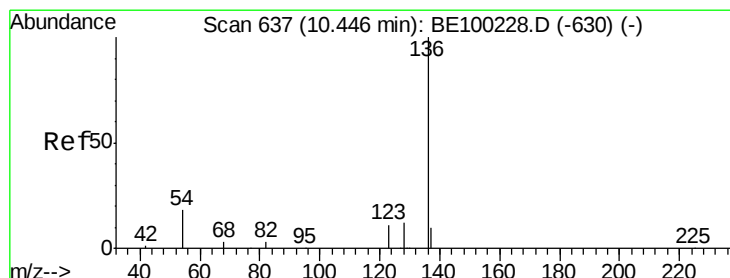
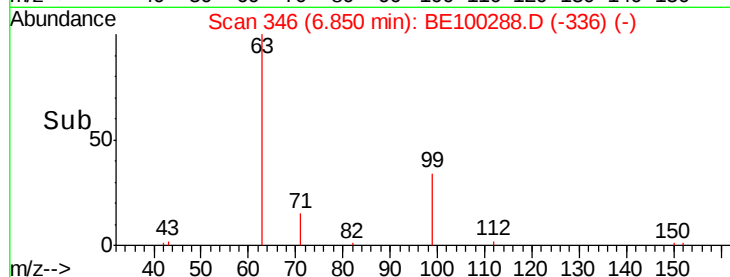
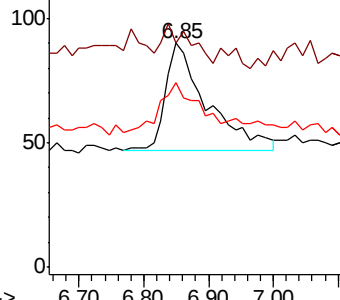
99 100

42 22.9 11.2 16.8#

71 44.8 37.2 55.8



Abundance Ion 99.00 (98.70 to 99.70): BE1
Ion 42.00 (41.70 to 42.70): BE1
Ion 71.00 (70.70 to 71.70): BE1



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.45 min Scan# 637

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Tgt Ion: 136 Resp: 3490

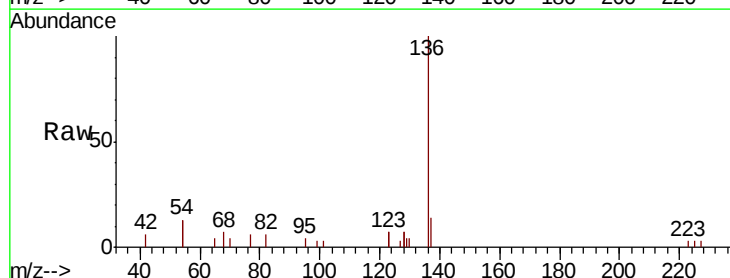
Ion Ratio Lower Upper

136 100

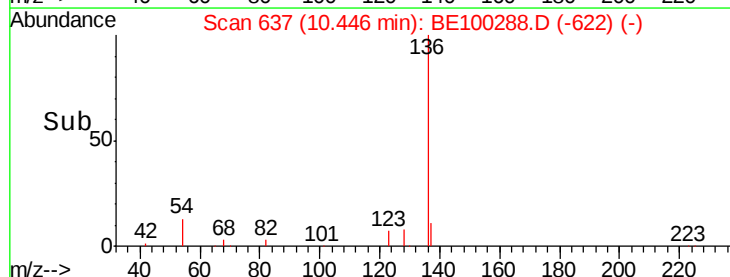
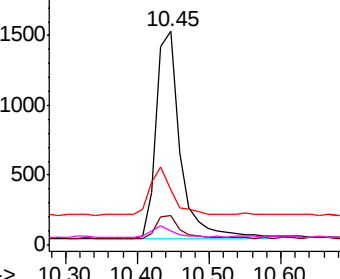
137 13.7 11.8 17.8

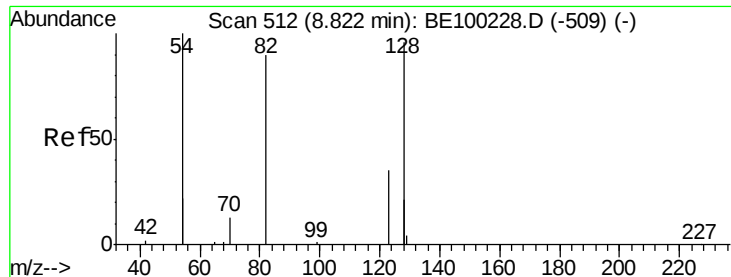
54 25.9 27.7 41.5#

68 6.7 6.8 10.2#



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): BE1
Ion 68.00 (67.70 to 68.70): BE1





#8

Nitrobenzene-d5

Concen: 0.054 ng

RT: 8.82 min Scan# 512

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

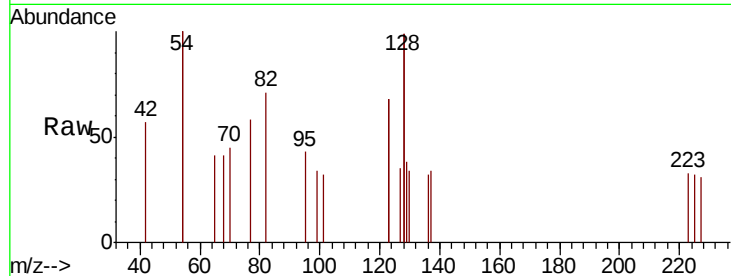
Tgt Ion: 82 Resp: 188

Ion Ratio Lower Upper

82 100

128 276.6 140.9 211.3#

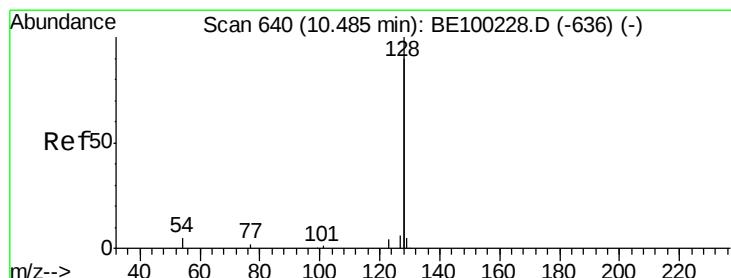
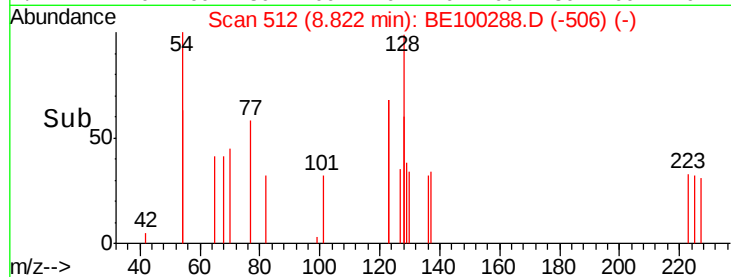
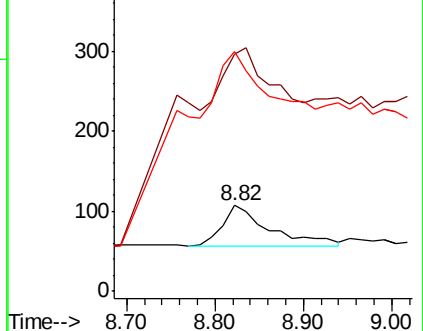
54 280.4 146.2 219.2#



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.029 ng

RT: 10.48 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

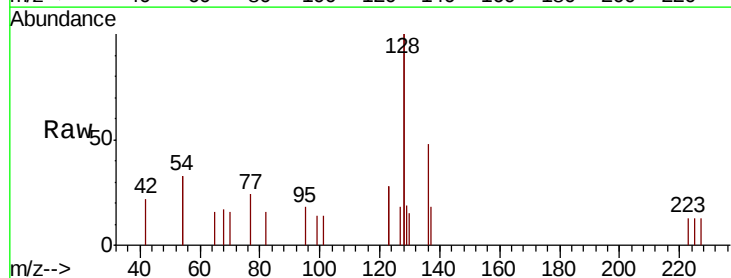
Tgt Ion: 128 Resp: 1112

Ion Ratio Lower Upper

128 100

129 9.6 3.0 4.6#

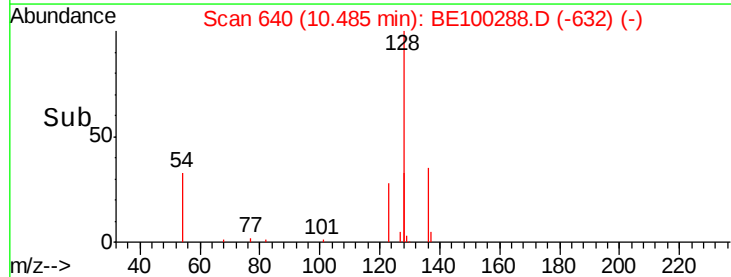
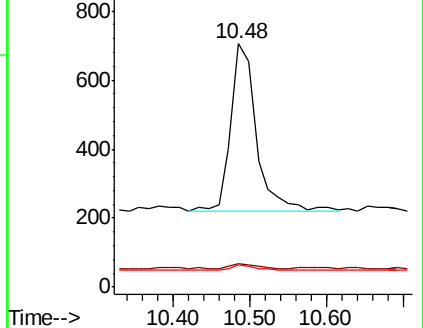
127 9.2 3.5 5.3#

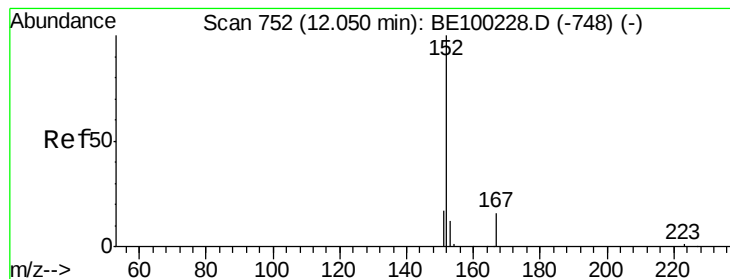


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.060 ng

RT: 12.05 min Scan# 752

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

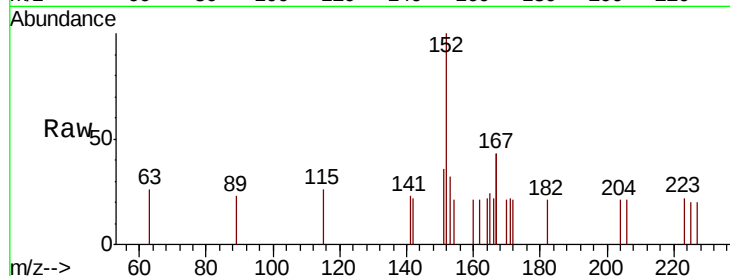
PST-007-SW048-061819DL

Tgt Ion:152 Resp: 393

Ion Ratio Lower Upper

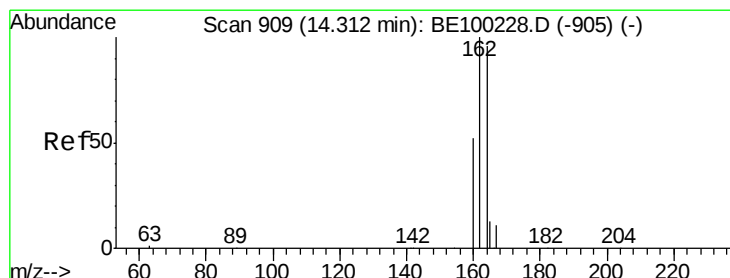
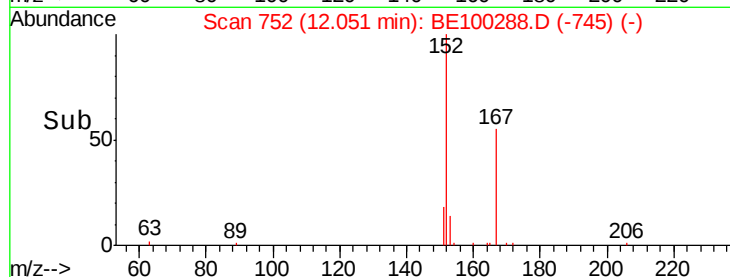
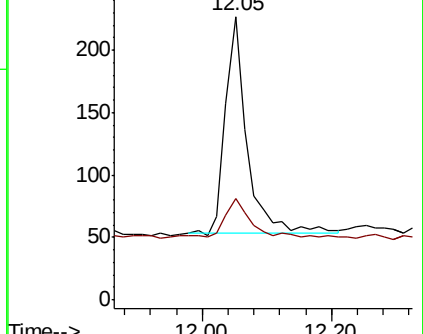
152 100

151 26.2 15.1 22.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 910

Delta R.T. 0.02 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

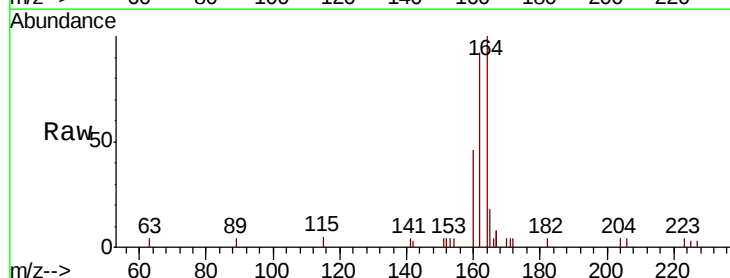
Tgt Ion:164 Resp: 2641

Ion Ratio Lower Upper

164 100

162 92.3 83.4 125.0

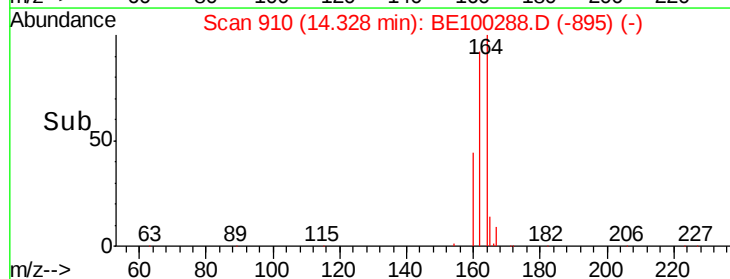
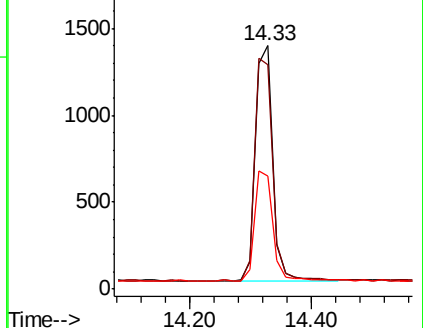
160 46.3 45.0 67.6

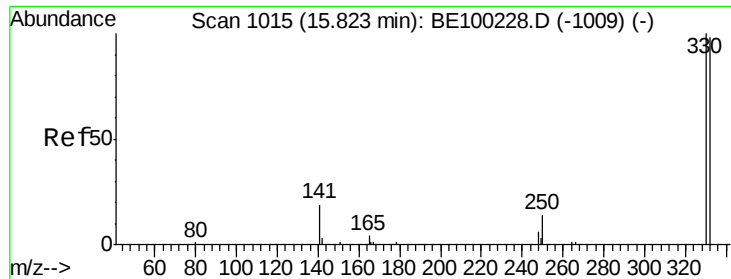


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

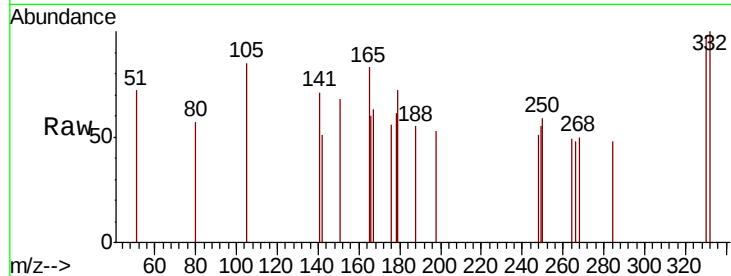




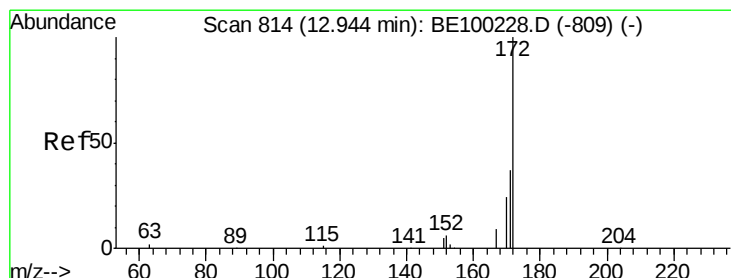
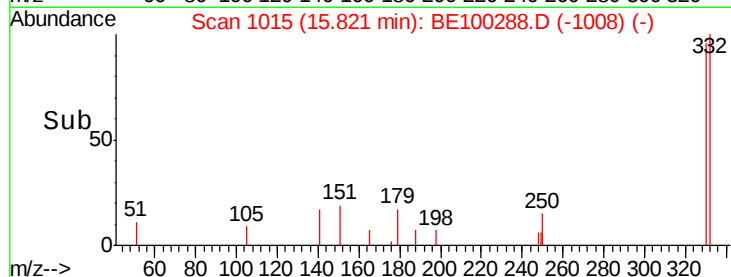
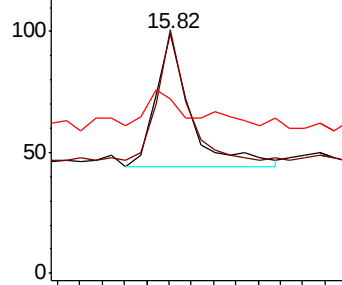
#14
 2,4,6-Tribromophenol
 Concen: 0.066 ng
 RT: 15.82 min Scan# 1015
 Delta R.T. -0.00 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

Instrument :
 BNA_E
 ClientSampleId :
 PST-007-SW048-061819DL

Tgt Ion: 330 Resp: 121
 Ion Ratio Lower Upper
 330 100
 332 79.3 77.0 115.4
 141 24.0 22.0 33.0

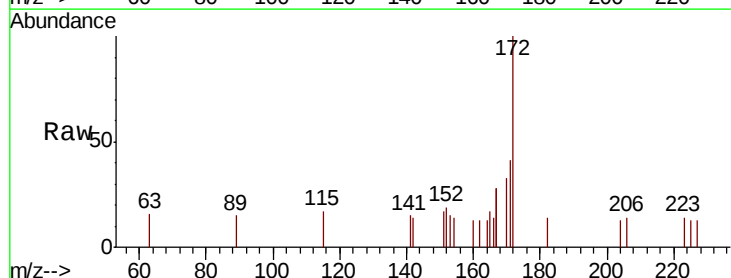


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

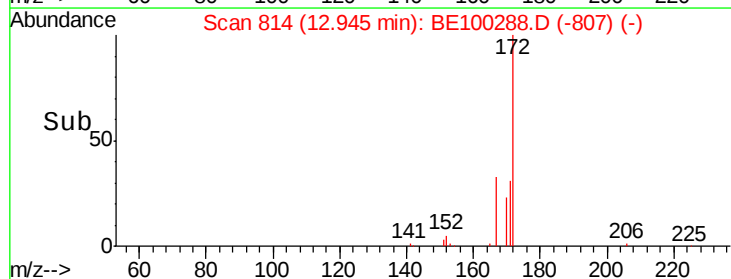
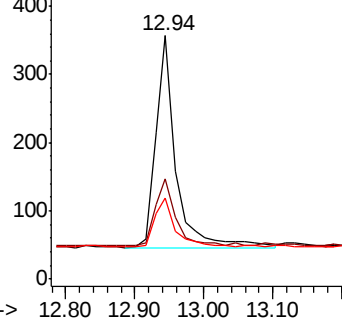


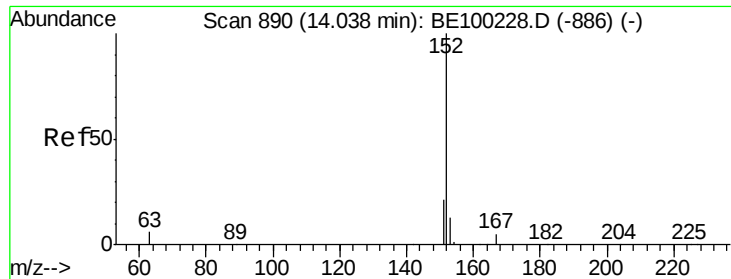
#15
 2-Fluorobiphenyl
 Concen: 0.061 ng
 RT: 12.94 min Scan# 814
 Delta R.T. 0.00 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

Tgt Ion: 172 Resp: 632
 Ion Ratio Lower Upper
 172 100
 171 41.2 31.9 47.9
 170 33.3 22.2 33.2#



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

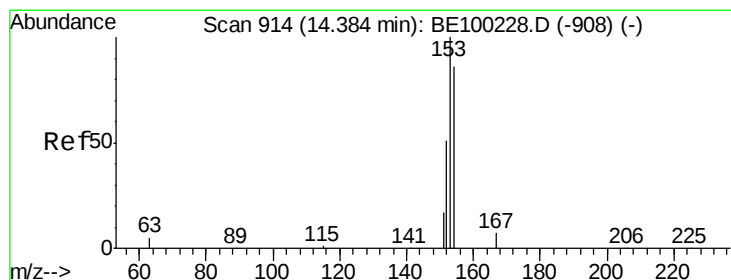
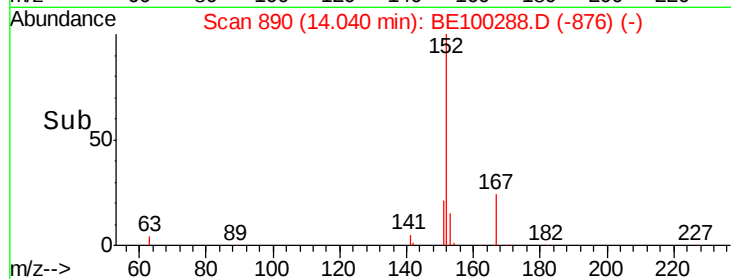
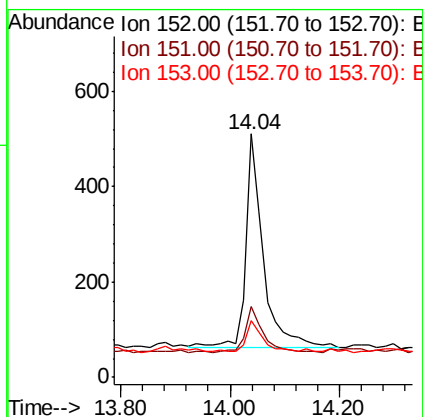
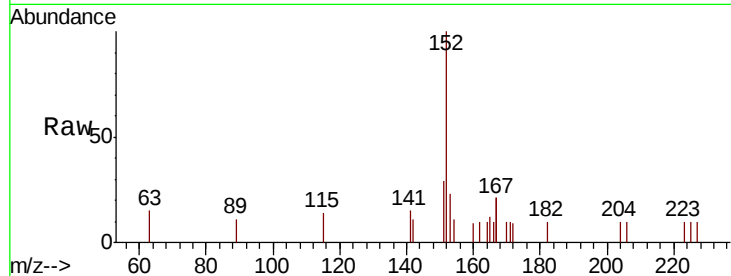




#16
Acenaphthylene
Concen: 0.076 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100288.D
Acq: 2 Jul 2019 5:58

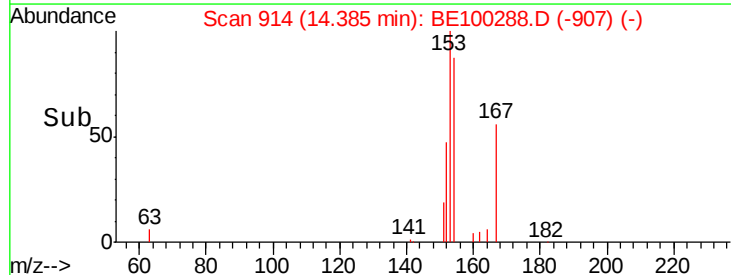
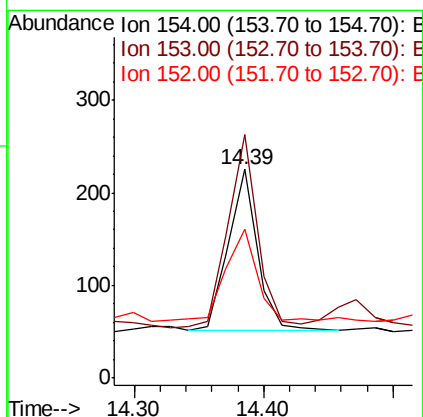
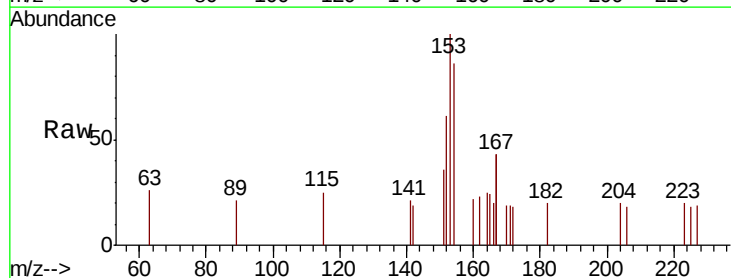
Instrument :
BNA_E
ClientSampleId :
PST-007-SW048-061819DL

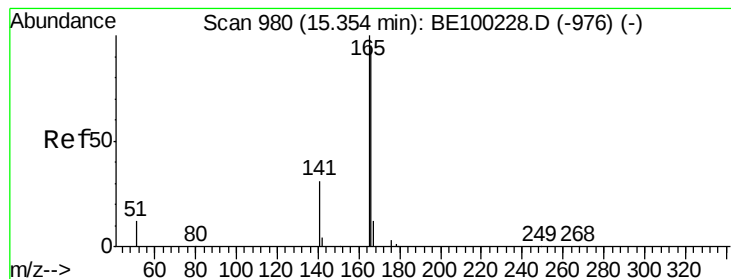
Tgt Ion: 152 Resp: 965
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0
153 14.3 10.5 15.7



#17
Acenaphthene
Concen: 0.037 ng
RT: 14.39 min Scan# 914
Delta R.T. 0.00 min
Lab File: BE100288.D
Acq: 2 Jul 2019 5:58

Tgt Ion: 154 Resp: 266
Ion Ratio Lower Upper
154 100
153 124.4 93.4 140.2
152 60.5 49.4 74.2





#18

Fluorene

Concen: 0.050 ng

RT: 15.37 min Scan# 981

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

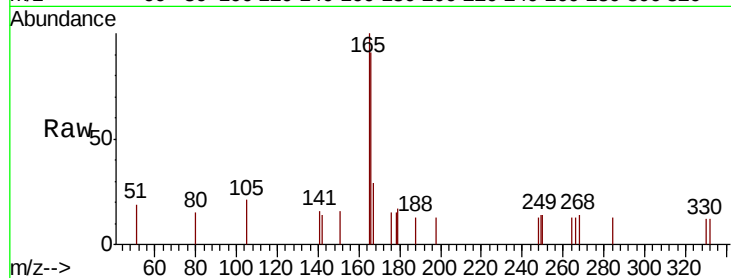
Tgt Ion:166 Resp: 533

Ion Ratio Lower Upper

166 100

165 109.2 81.1 121.7

167 20.6 10.7 16.1#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

500

400

300

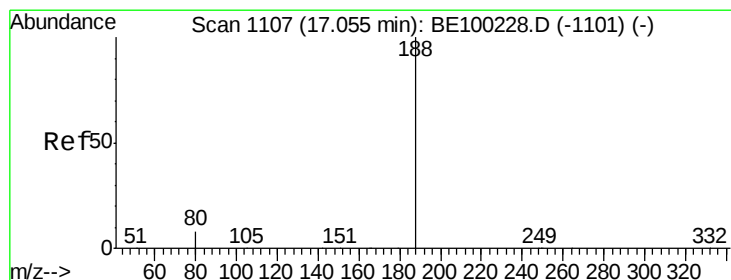
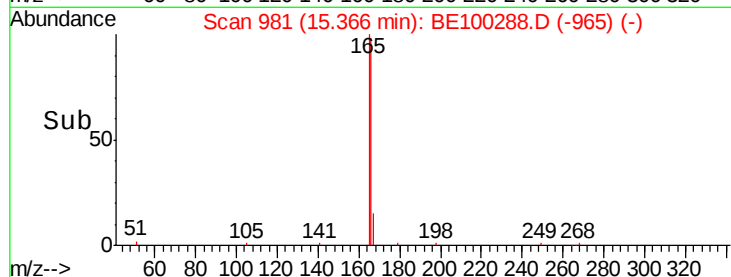
200

100

0

15.30 15.37 15.40

Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.07 min Scan# 1108

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

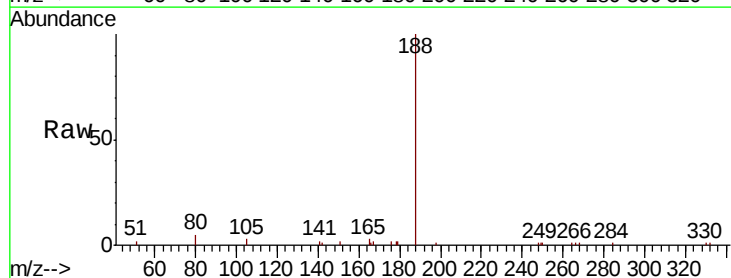
Tgt Ion:188 Resp: 7327

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.4 7.6 11.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1

6000

5000

4000

3000

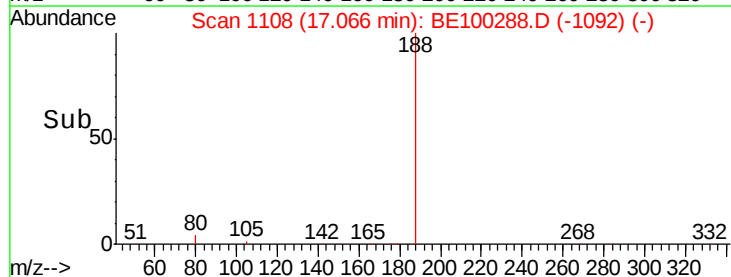
2000

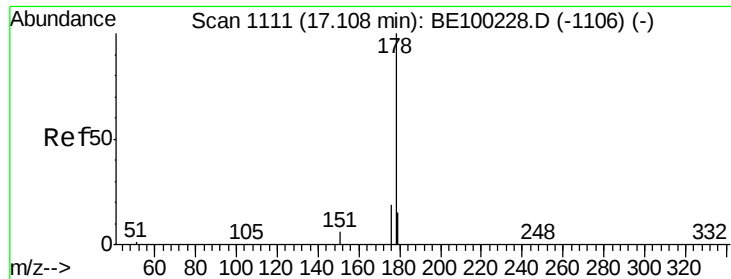
1000

0

17.00 17.07 17.20

Time-->





#23

Phenanthrene

Concen: 1.075 ng

RT: 17.11 min Scan# 1111

Delta R.T. -0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

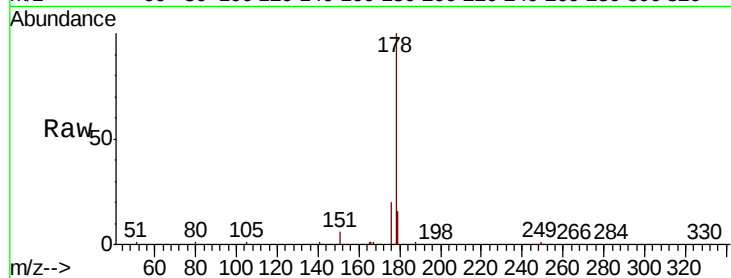
Tgt Ion:178 Resp: 19098

Ion Ratio Lower Upper

178 100

176 20.0 15.9 23.9

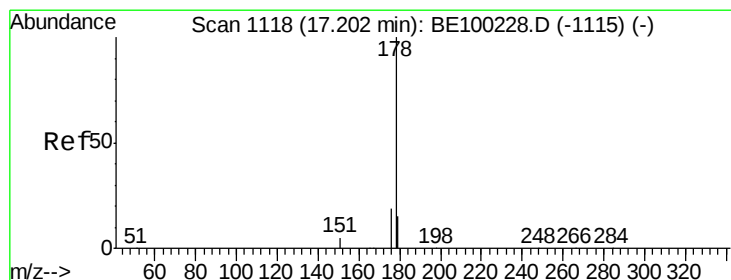
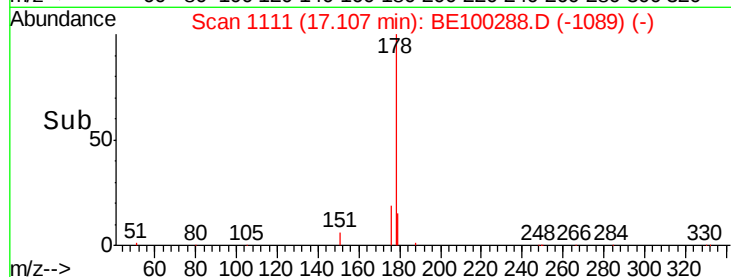
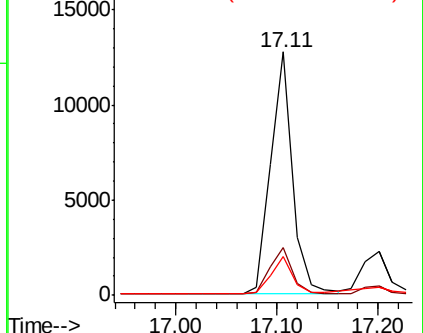
179 15.5 12.2 18.2



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



#24

Anthracene

Concen: 0.247 ng

RT: 17.20 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

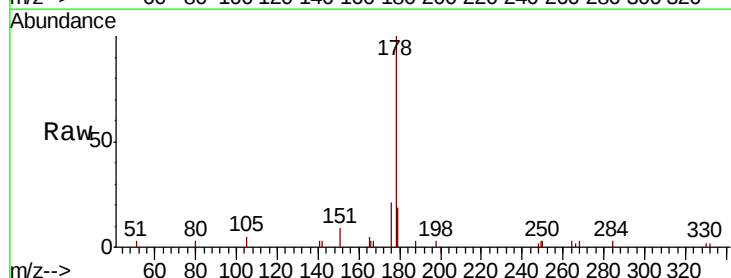
Tgt Ion:178 Resp: 3945

Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

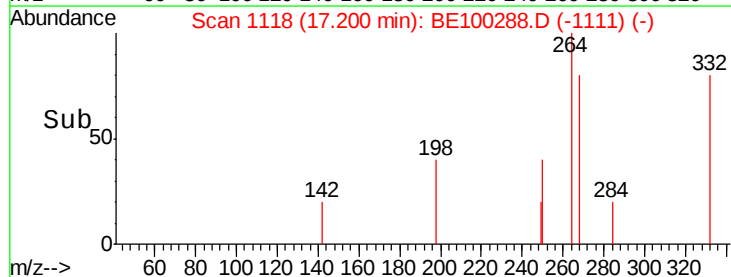
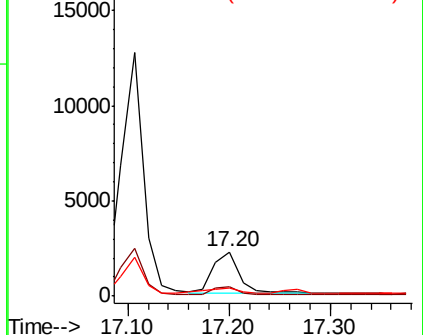
179 17.2 12.2 18.2

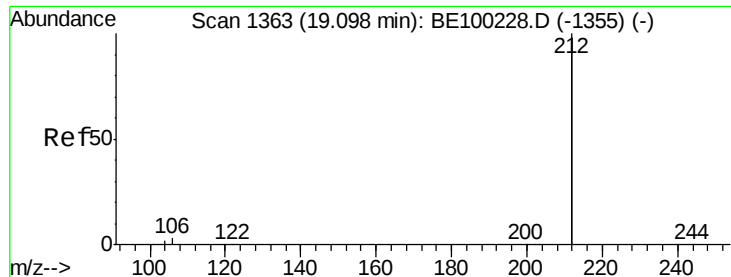


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

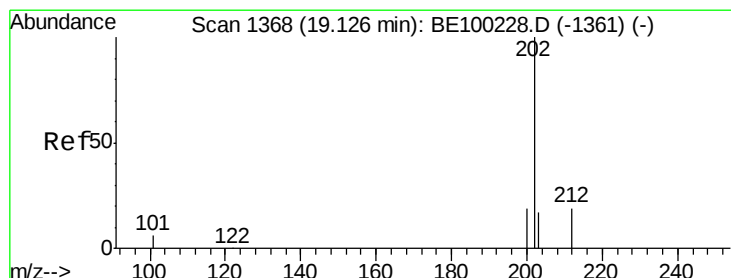
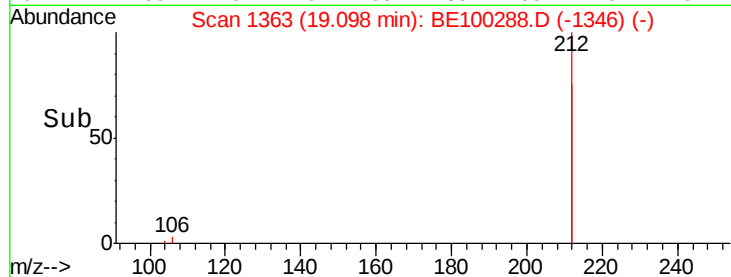
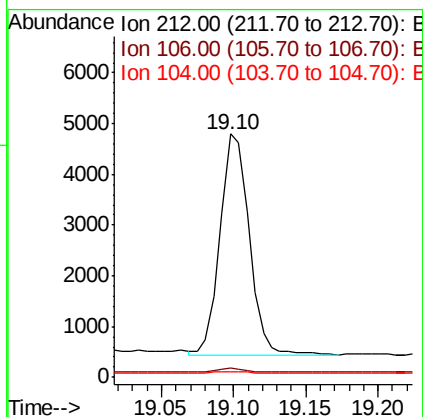
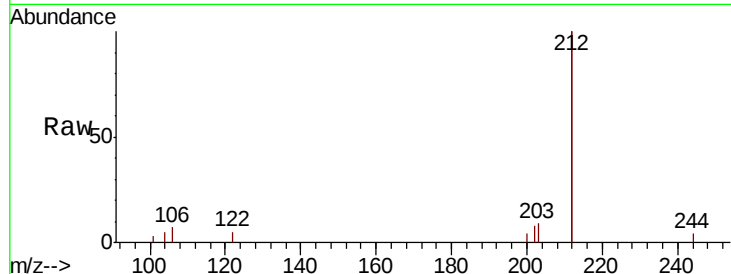




#25
 Fluoranthene-d10
 Concen: 0.058 ng
 RT: 19.10 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

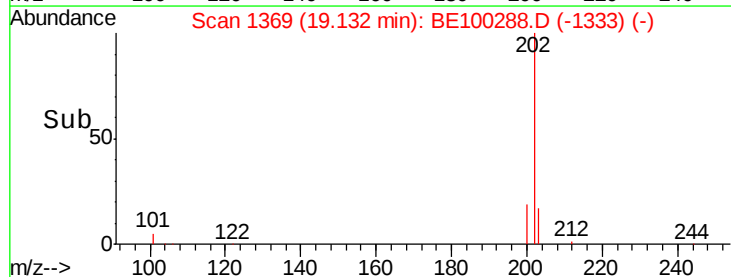
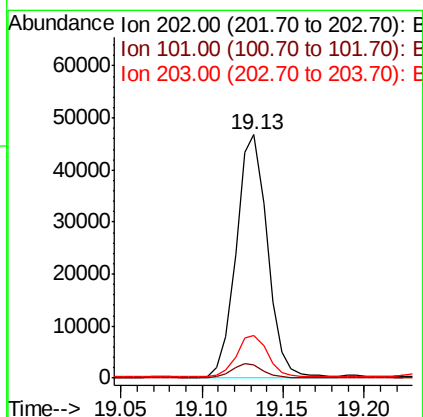
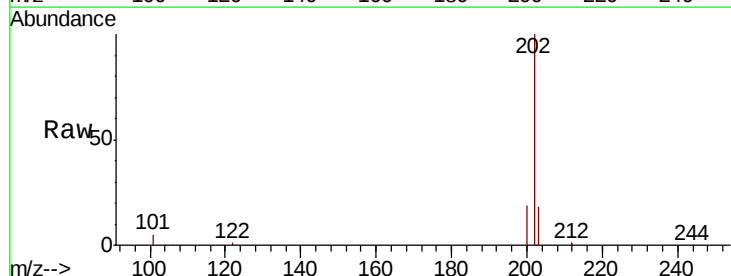
Instrument :
 BNA_E
 ClientSampleId :
 PST-007-SW048-061819DL

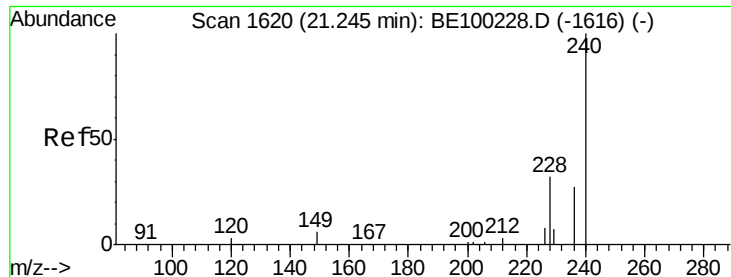
Tgt Ion: 212 Resp: 6118
 Ion Ratio Lower Upper
 212 100
 106 1.9 1.3 1.9
 104 1.0 0.8 1.2



#26
 Fluoranthene
 Concen: 2.188 ng
 RT: 19.13 min Scan# 1369
 Delta R.T. 0.01 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

Tgt Ion: 202 Resp: 61889
 Ion Ratio Lower Upper
 202 100
 101 5.6 4.6 7.0
 203 17.4 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.24 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

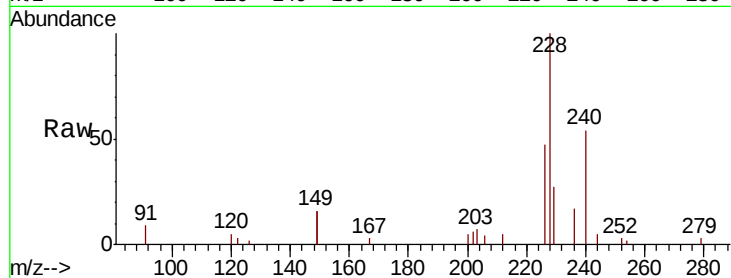
Tgt Ion:240 Resp: 9045

Ion Ratio Lower Upper

240 100

120 10.0 3.3 4.9#

236 32.2 22.6 34.0

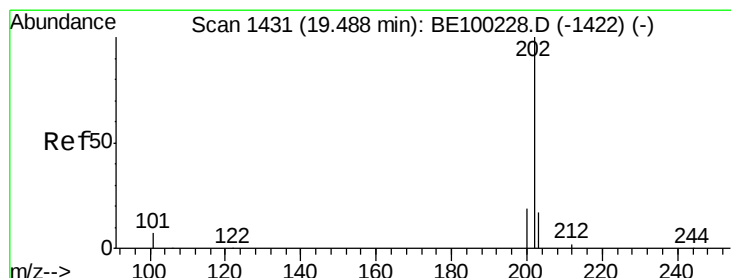
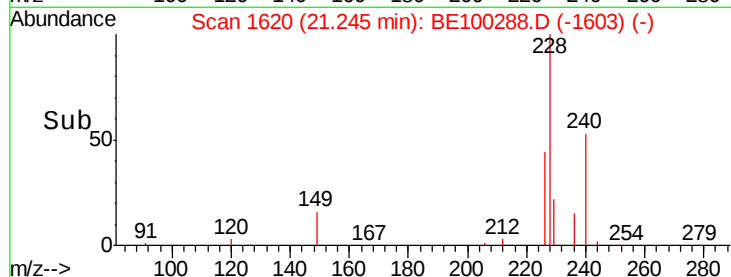
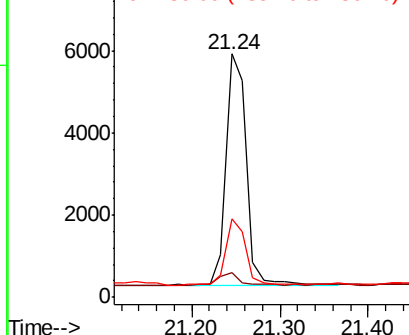


Abundance

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



#28

Pyrene

Concen: 2.511 ng

RT: 19.49 min Scan# 1432

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

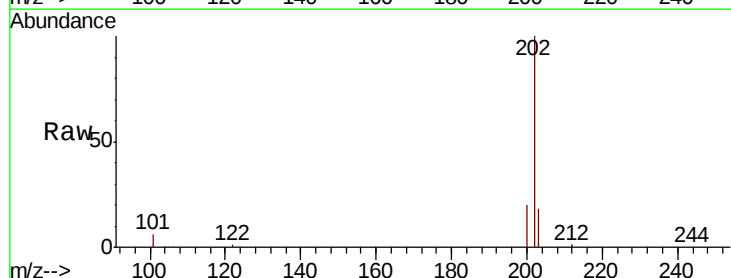
Tgt Ion:202 Resp: 60130

Ion Ratio Lower Upper

202 100

200 19.7 15.6 23.4

203 20.9 14.0 21.0

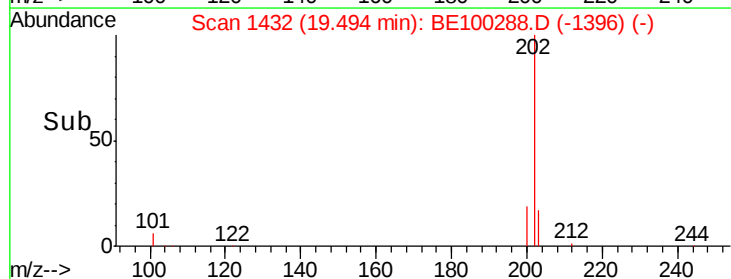
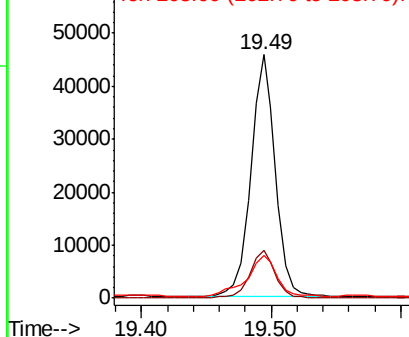


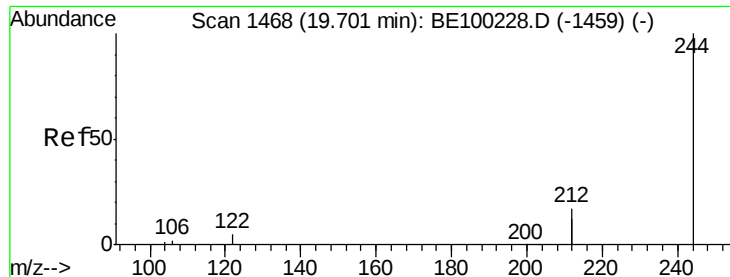
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.087 ng

RT: 19.70 min Scan# 1468

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

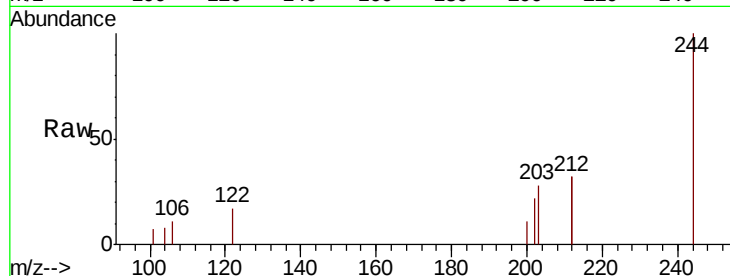
Tgt Ion:244 Resp: 1639

Ion Ratio Lower Upper

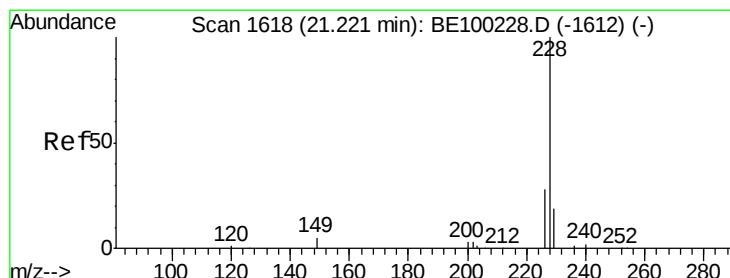
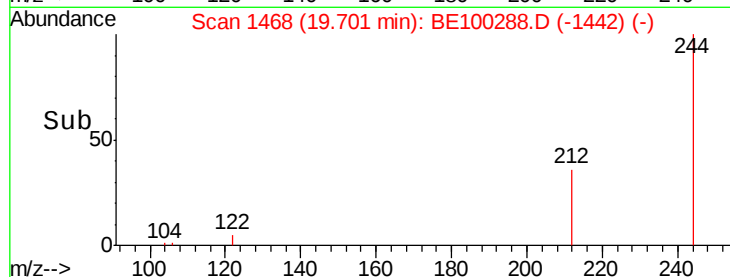
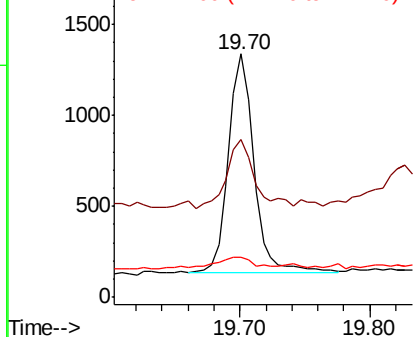
244 100

212 64.6 27.3 40.9#

122 16.6 4.7 7.1#



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: 1.431 ng

RT: 21.23 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

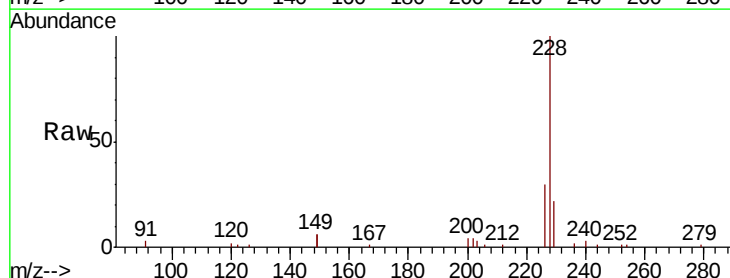
Tgt Ion:228 Resp: 42554

Ion Ratio Lower Upper

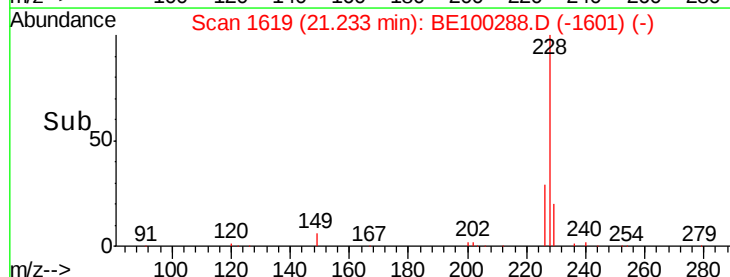
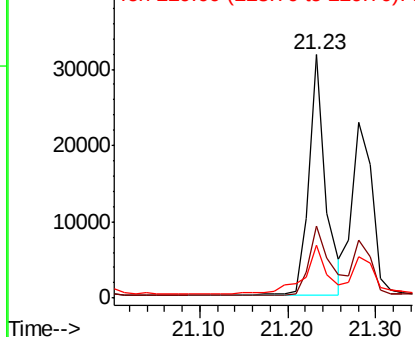
228 100

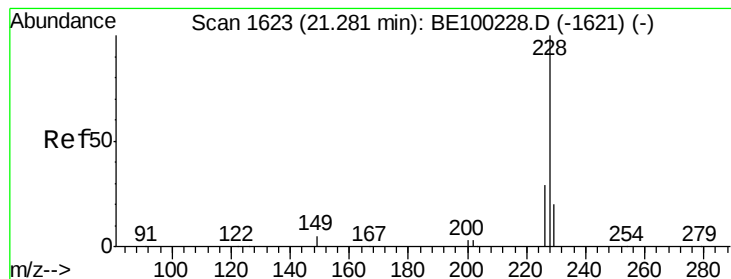
226 29.7 23.2 34.8

229 21.8 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.195 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

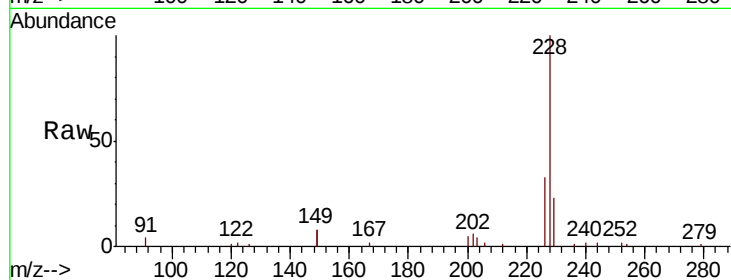
Tgt Ion: 228 Resp: 35682

Ion Ratio Lower Upper

228 100

226 32.8 23.9 35.9

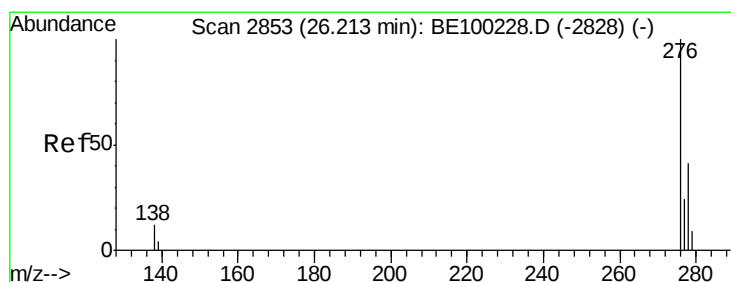
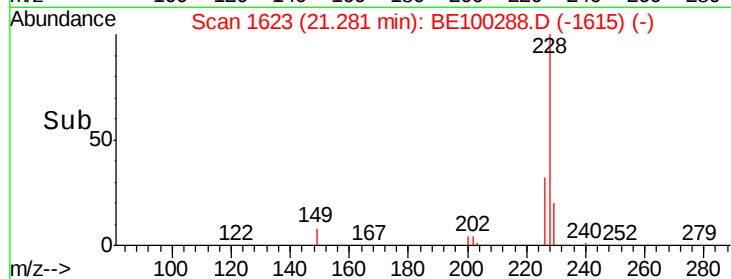
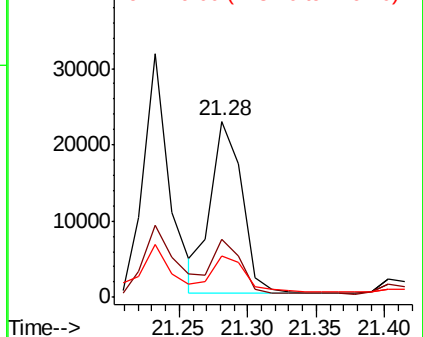
229 23.3 16.5 24.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.562 ng

RT: 26.24 min Scan# 2861

Delta R.T. 0.03 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

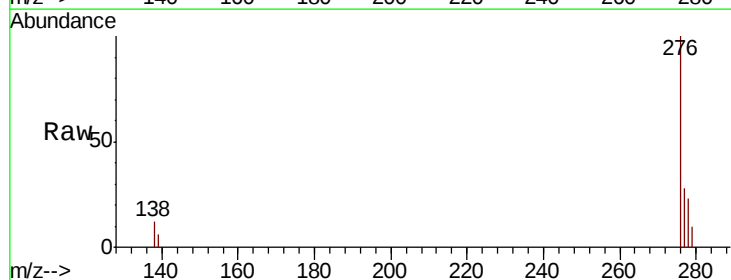
Tgt Ion: 276 Resp: 22196

Ion Ratio Lower Upper

276 100

138 9.3 9.4 14.0#

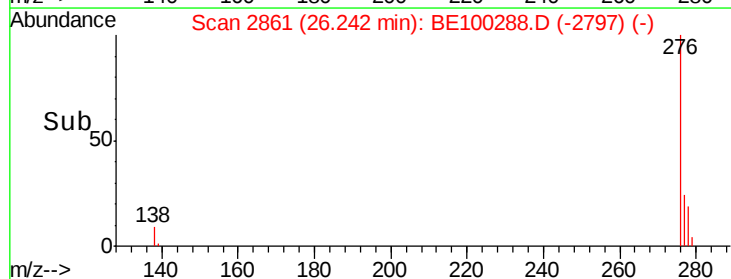
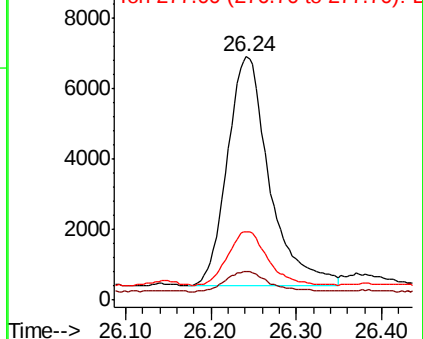
277 22.8 19.2 28.8

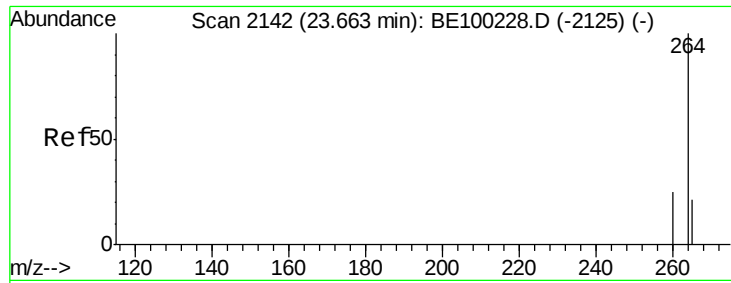


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

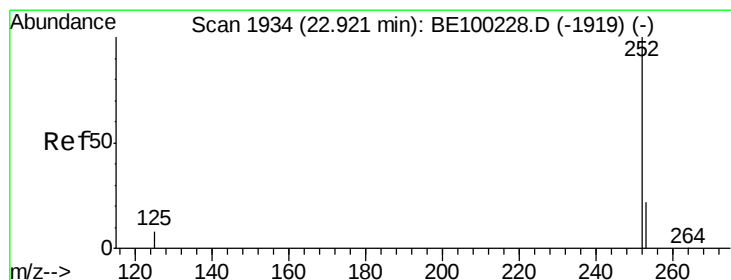
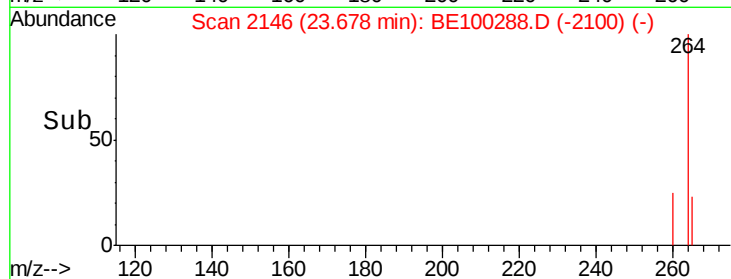
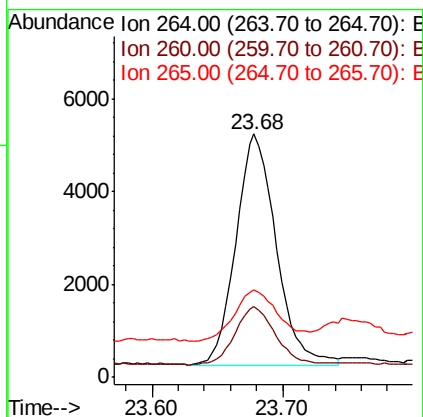
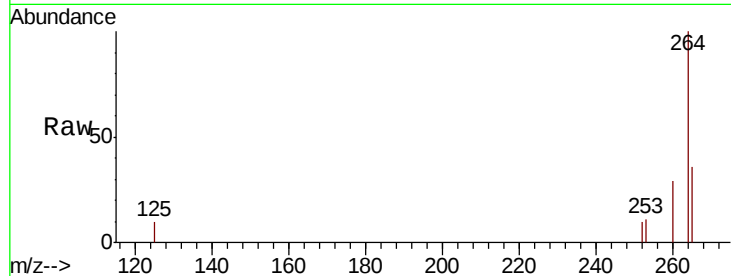




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.68 min Scan# 2146
 Delta R.T. 0.02 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

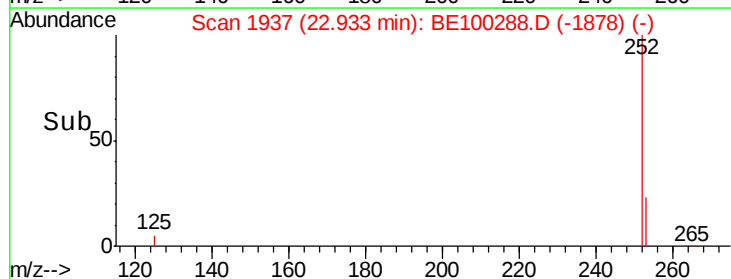
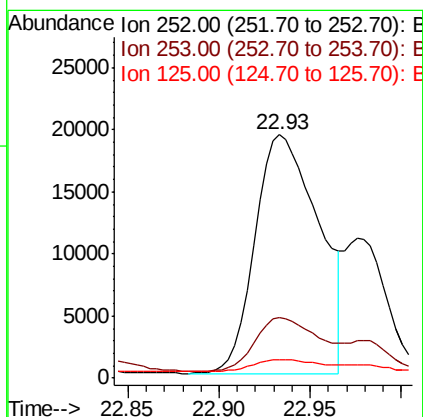
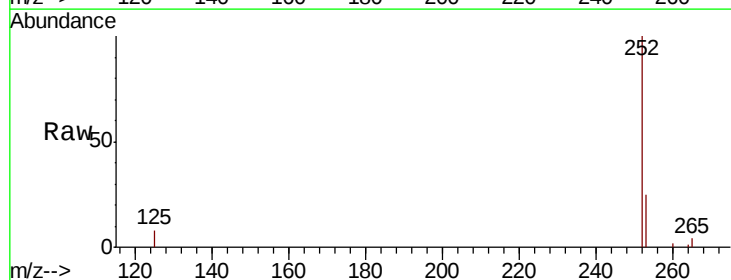
Instrument :
 BNA_E
 ClientSampleId :
 PST-007-SW048-061819DL

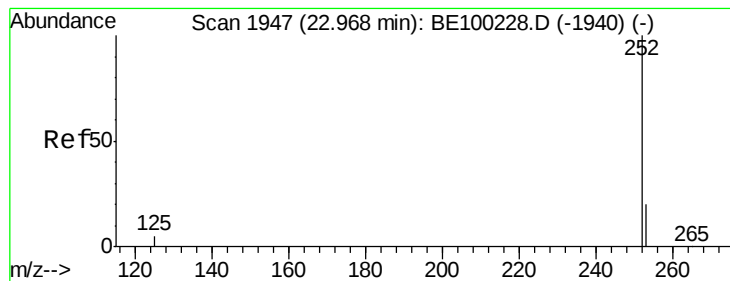
Tgt Ion: 264 Resp: 10628
 Ion Ratio Lower Upper
 264 100
 260 28.9 20.8 31.2
 265 36.1 21.8 32.6#



#35
 Benzo(b)fluoranthene
 Concen: 1.620 ng
 RT: 22.93 min Scan# 1937
 Delta R.T. 0.01 min
 Lab File: BE100288.D
 Acq: 2 Jul 2019 5:58

Tgt Ion: 252 Resp: 46691
 Ion Ratio Lower Upper
 252 100
 253 25.0 19.2 28.8
 125 7.6 7.4 11.0





#36

Benzo(k)fluoranthene

Concen: 1.452 ng

RT: 22.93 min Scan# 1937

Delta R.T. -0.03 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

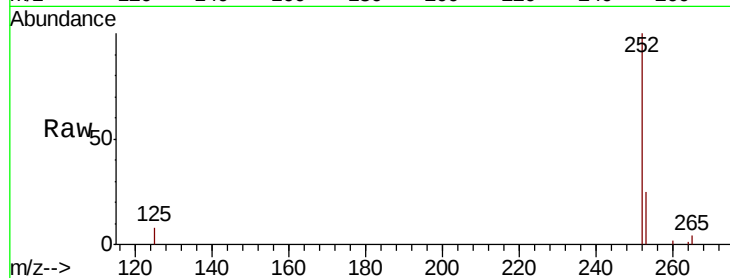
Tgt Ion: 252 Resp: 46691

Ion Ratio Lower Upper

252 100

253 25.0 17.9 26.9

125 7.6 5.0 7.4#

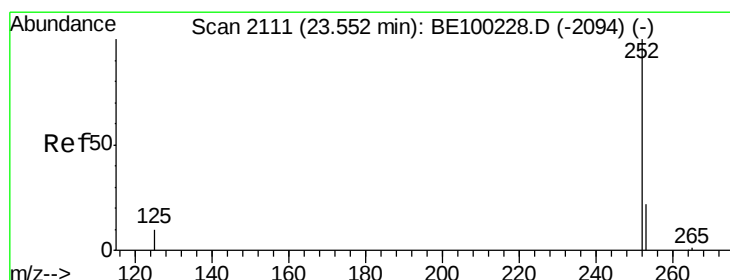
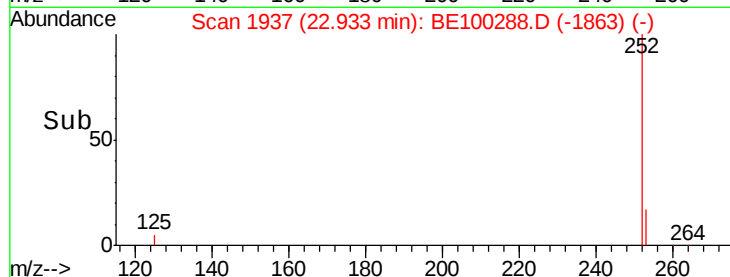
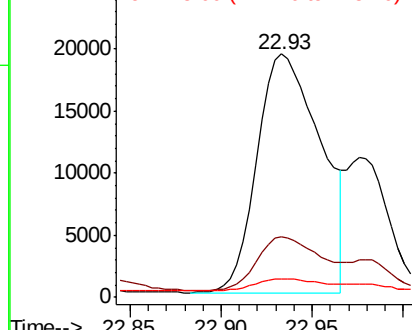


Abundance

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: 0.819 ng

RT: 23.46 min Scan# 2086

Delta R.T. -0.09 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

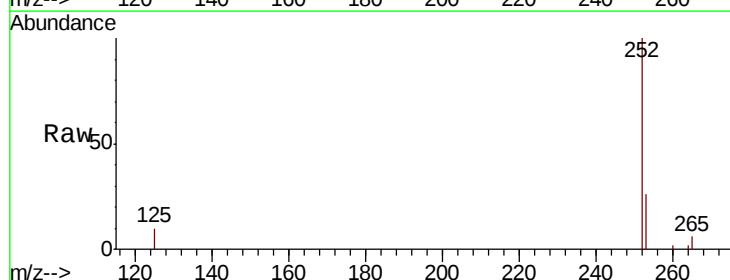
Tgt Ion: 252 Resp: 23640

Ion Ratio Lower Upper

252 100

253 26.0 19.6 29.4

125 10.4 9.0 13.6

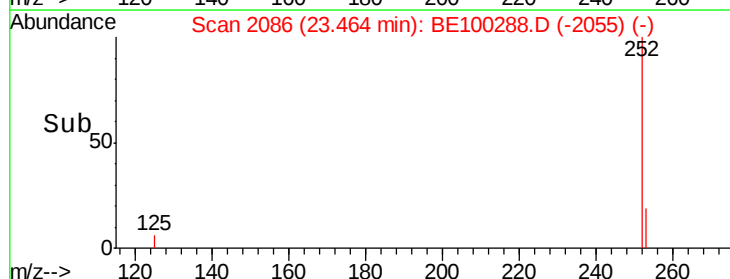
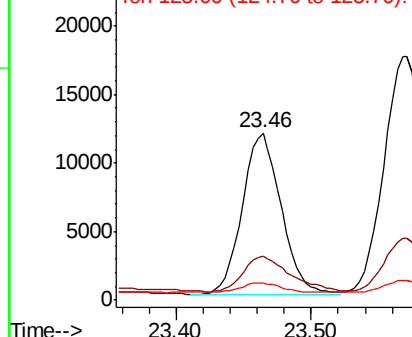


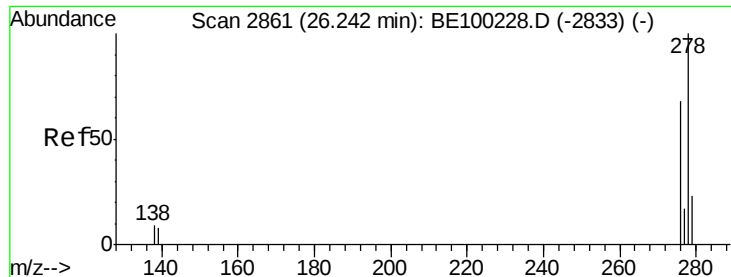
Abundance

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: 0.171 ng

RT: 26.25 min Scan# 2863

Delta R.T. 0.01 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

Instrument :

BNA_E

ClientSampleId :

PST-007-SW048-061819DL

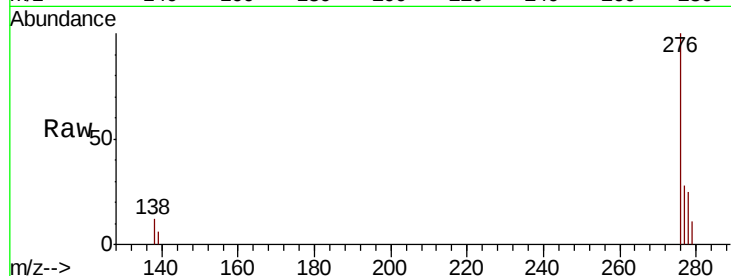
Tgt Ion:278 Resp: 5164

Ion Ratio Lower Upper

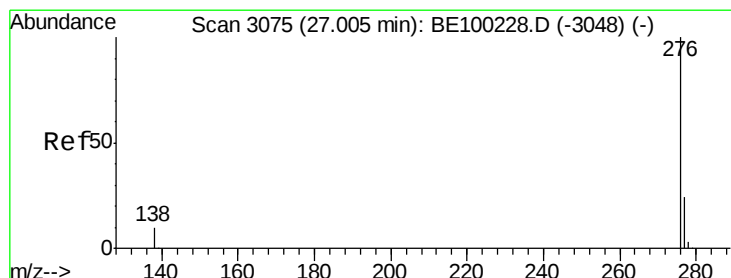
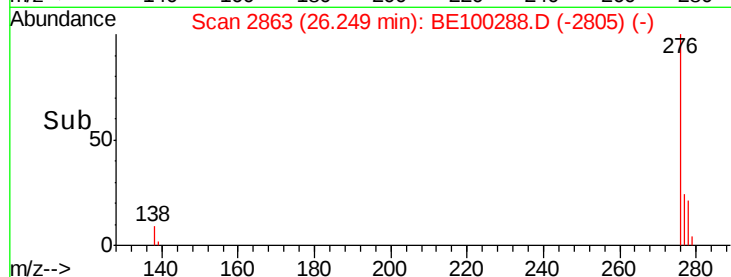
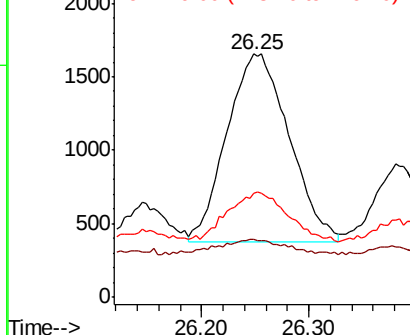
278 100

139 23.9 8.2 12.2#

279 42.7 20.3 30.5#



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: 0.689 ng

RT: 27.04 min Scan# 3084

Delta R.T. 0.03 min

Lab File: BE100288.D

Acq: 2 Jul 2019 5:58

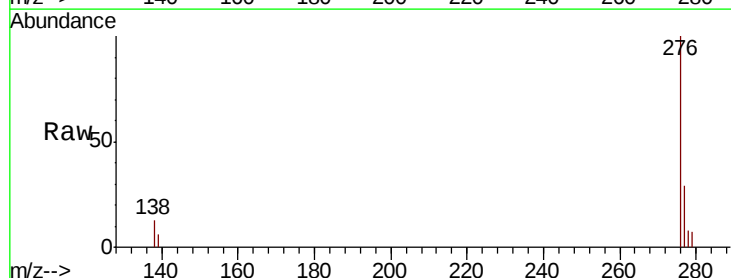
Tgt Ion:276 Resp: 21348

Ion Ratio Lower Upper

276 100

277 29.0 20.2 30.2

138 12.9 9.0 13.6



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

