

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100347.D
 Acq On : 4 Jul 2019 2:23
 Operator : JU/SJ
 Sample : K3560-15 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 04 03:13:47 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	7.63	152	708	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	2415	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1982	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5795	0.40	ng	0.00
27) Chrysene-d12	21.25	240	7560	0.40	ng	0.00
34) Perylene-d12	23.66	264	9155	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	216	0.12	ng	0.00
5) Phenol-d6	6.83	99	285	0.12	ng	0.00
8) Nitrobenzene-d5	8.82	82	258	0.11	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	549	0.12	ng	0.00
14) 2,4,6-Tribromophenol	15.82	330	174	0.13	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	824	0.11	ng	0.00
25) Fluoranthene-d10	19.09	212	8226	0.10	ng	0.00
29) Terphenyl-d14	19.69	244	2147	0.14	ng	-0.01

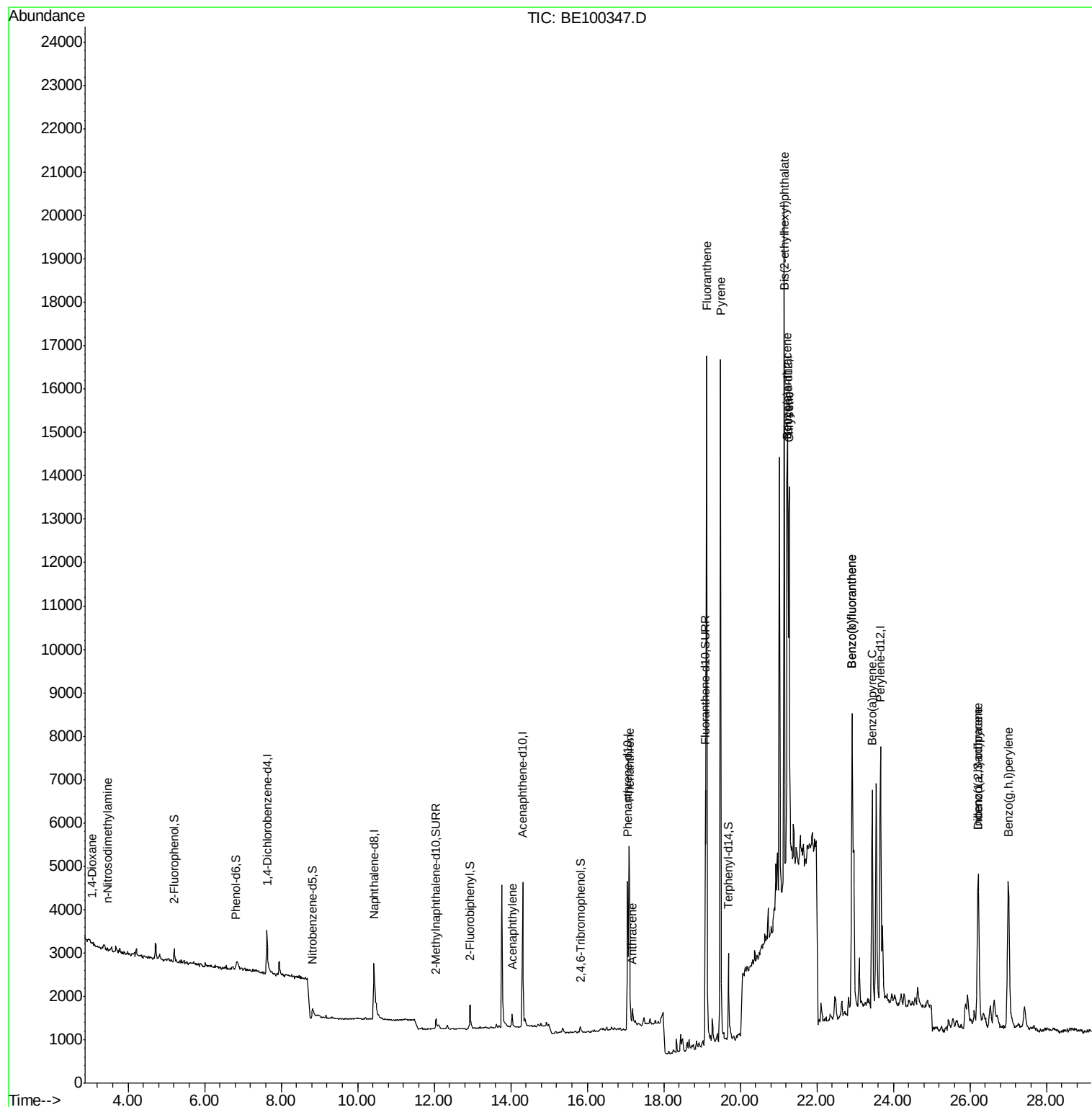
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.05	88	50	0.046	ng	# 32
3) n-Nitrosodimethylamine	3.47	42	15	0.029	ng	# 1
16) Acenaphthylene	14.04	152	498	0.052	ng	97
23) Phenanthrene	17.09	178	4914	0.350	ng	100
24) Anthracene	17.19	178	578	0.046	ng	# 92
26) Fluoranthene	19.12	202	15967	0.714	ng	100
28) Pyrene	19.48	202	15492	0.774	ng	97
30) Benzo(a)anthracene	21.22	228	8500	0.342	ng	# 93
31) Chrysene	21.28	228	10075	0.404	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.15	149	17021	0.427	ng	100
33) Indeno(1,2,3-cd)pyrene	26.22	276	7315	0.222	ng	# 97
35) Benzo(b)fluoranthene	22.92	252	13088	0.527	ng	92
36) Benzo(k)fluoranthene	22.92	252	13088	0.472	ng	# 87
37) Benzo(a)pyrene	23.45	252	7991	0.321	ng	94
38) Dibenzo(a,h)anthracene	26.22	278	1774	0.068	ng	# 34
39) Benzo(g,h,i)perylene	27.00	276	9422	0.353	ng	# 92

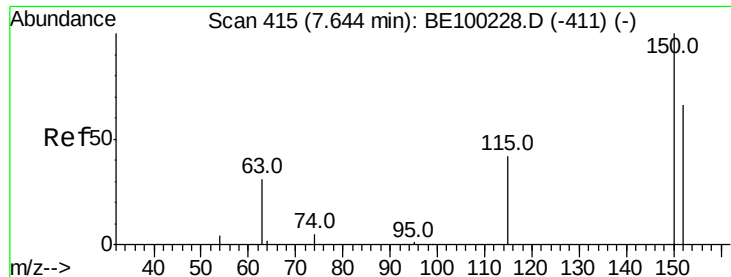
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.63 min Scan# 414

Delta R.T. -0.01 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampleId :

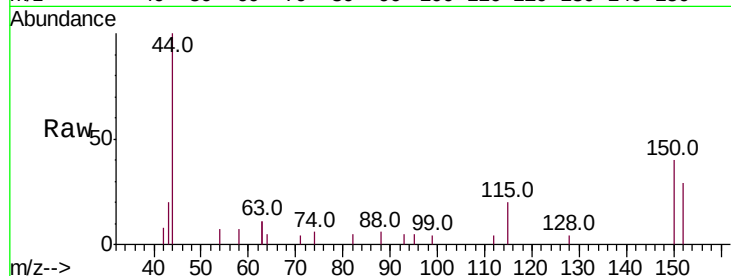
Tot Ion:152 Resp: 708

Ion Ratio Lower Upper

152 100

150 139.9 114.5 171.7

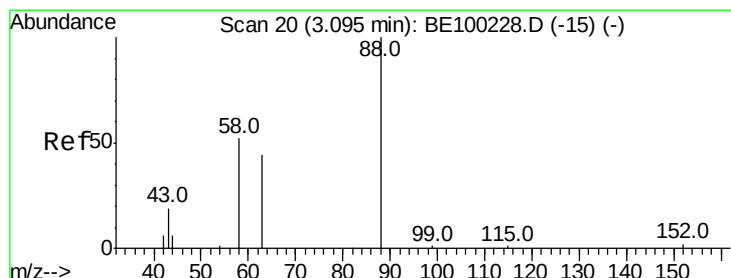
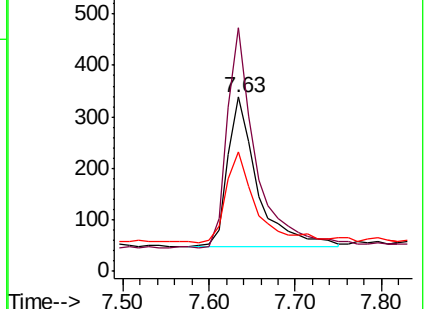
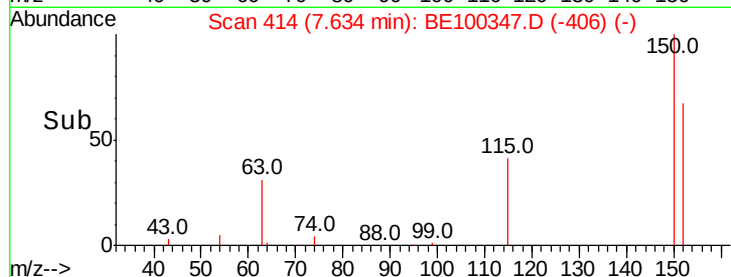
115 68.6 57.1 85.7



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



#2

1,4-Dioxane

Concen: 0.046 ng

RT: 3.05 min Scan# 16

Delta R.T. -0.04 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

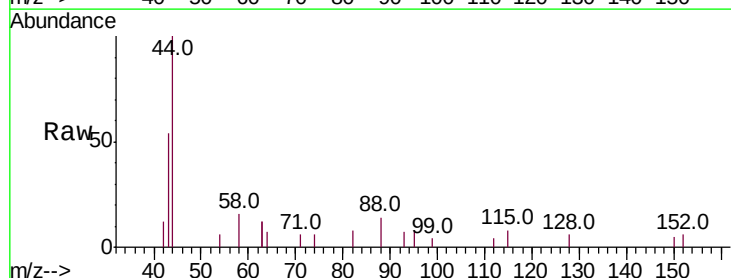
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

58 0.0 43.6 65.4#

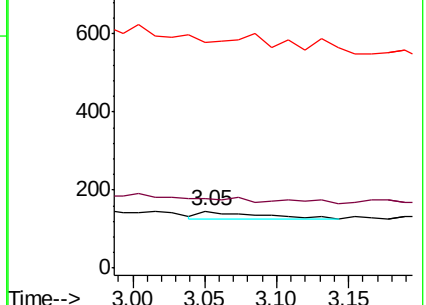
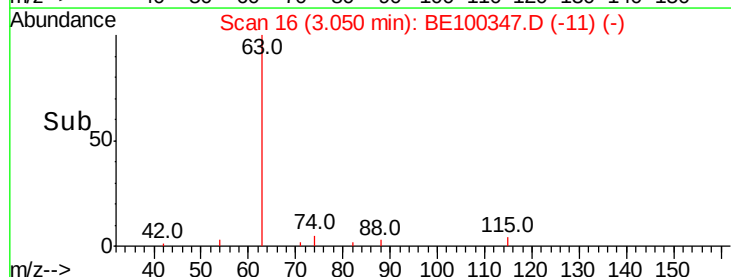
43 0.0 21.4 32.0#

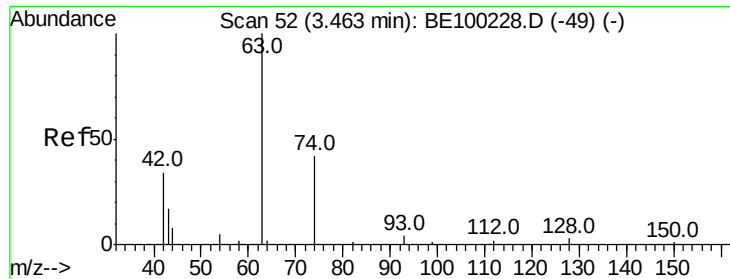


Abundance Ion 88.00 (87.70 to 88.70): BE1

Ion 58.00 (57.70 to 58.70): BE1

Ion 43.00 (42.70 to 43.70): BE1

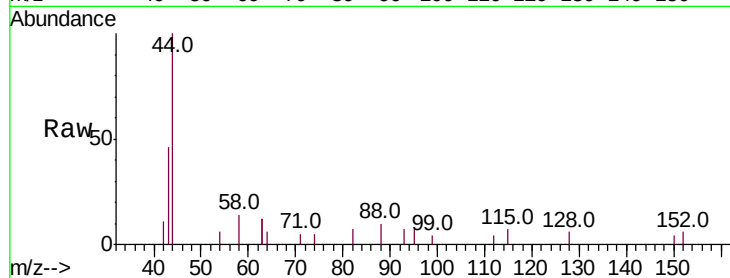




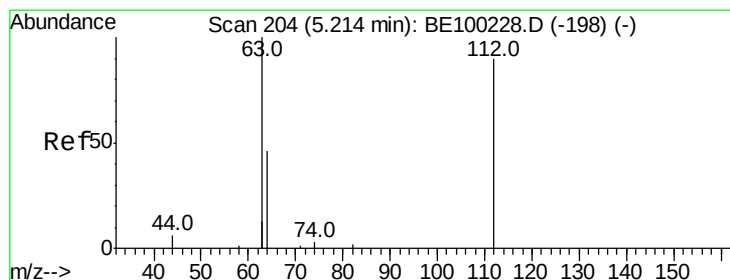
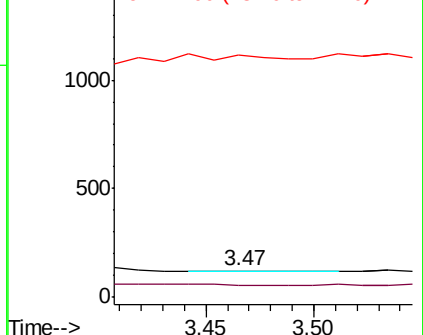
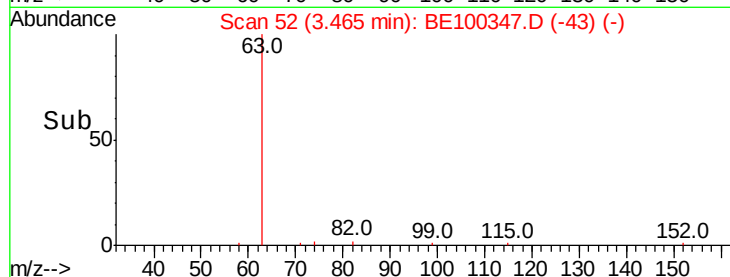
#3
n-Nitrosodimethylamine
Concen: 0.029 ng
RT: 3.47 min Scan# 52
Delta R.T. 0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Instrument :
BNA_E
ClientSampled :

Tot Ion	Ratio	Lower	Upper
42	100		
74	0.0	130.6	196.0#
44	0.0	38.0	57.0#

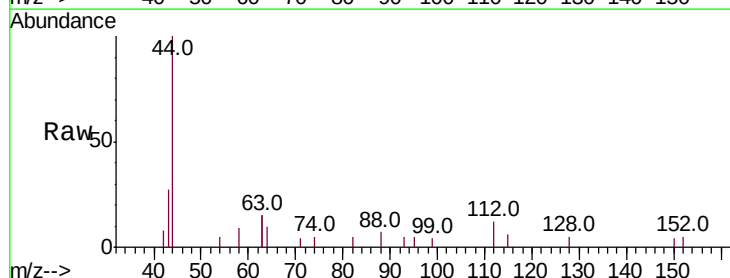


Abundance Ion 42.00 (41.70 to 42.70): BE1
Ion 74.00 (73.70 to 74.70): BE1
Ion 44.00 (43.70 to 44.70): BE1

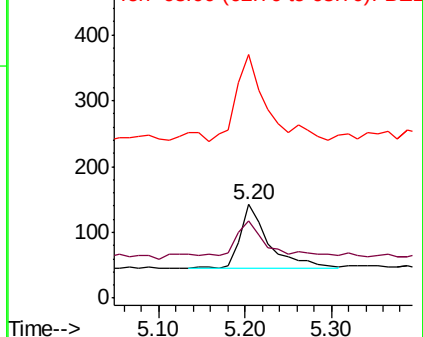
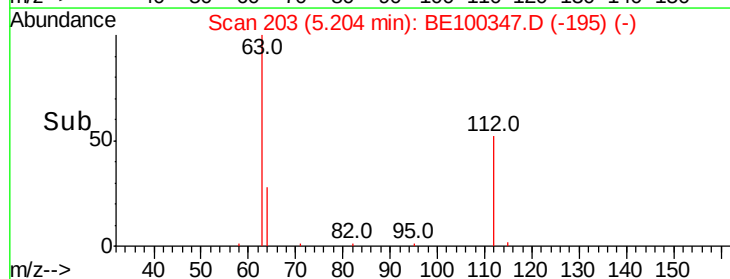


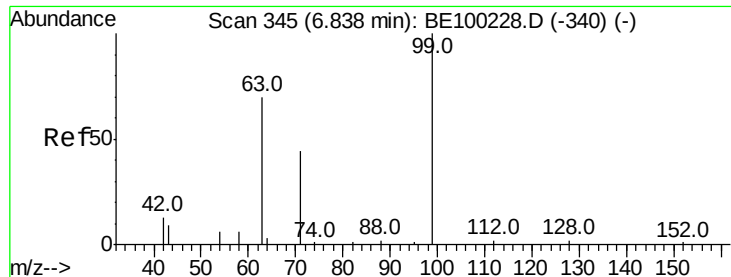
#4
2-Fluorophenol
Concen: 0.120 ng
RT: 5.20 min Scan# 203
Delta R.T. -0.01 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.5	39.4	59.0
63	151.9	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: 0.120 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampleId :

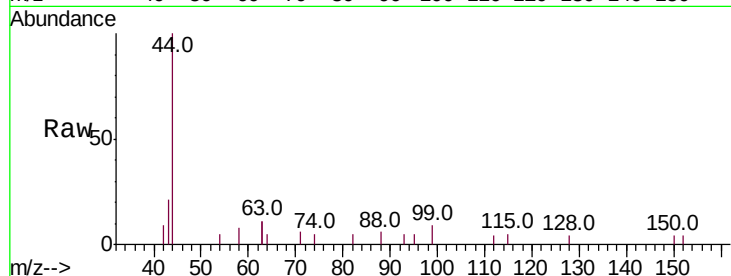
Tot Ion: 99 Resp: 285

Ion Ratio Lower Upper

99 100

42 13.3 11.2 16.8

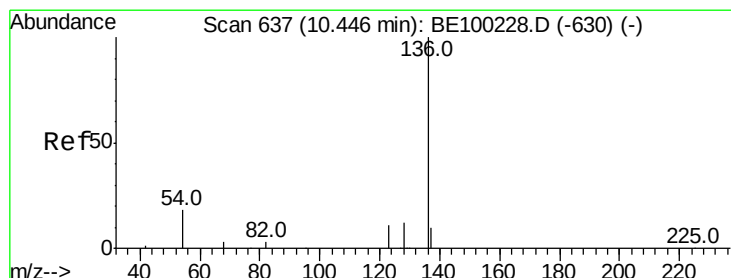
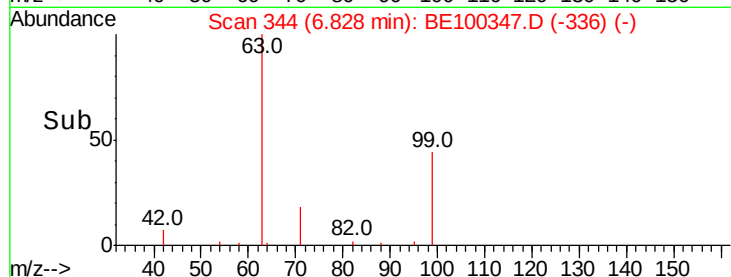
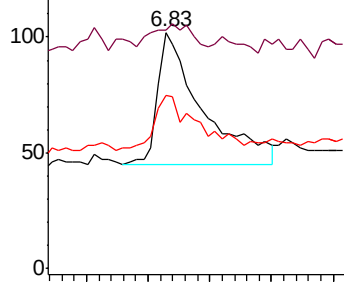
71 39.6 37.2 55.8



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: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Tgt Ion: 136 Resp: 2415

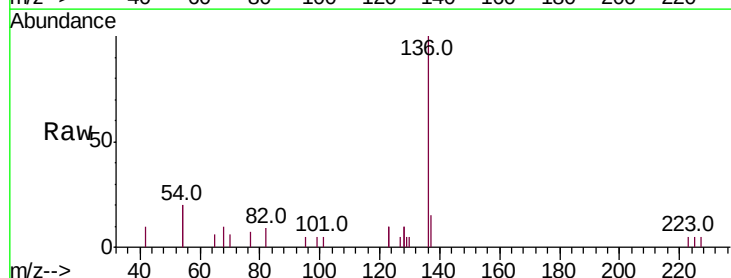
Ion Ratio Lower Upper

136 100

137 14.6 11.8 17.8

54 39.6 27.7 41.5

68 9.8 6.8 10.2

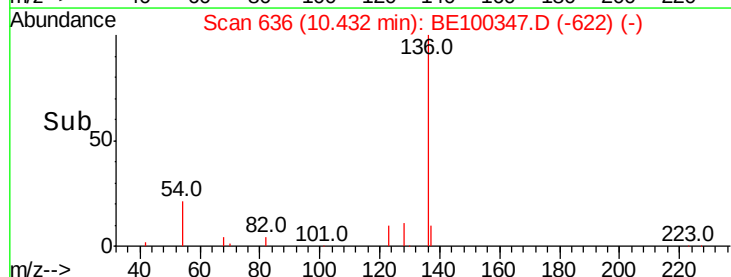
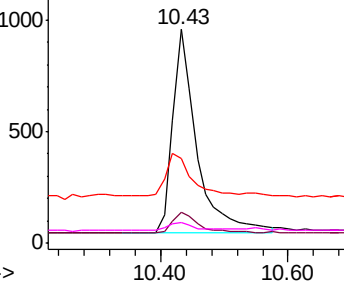


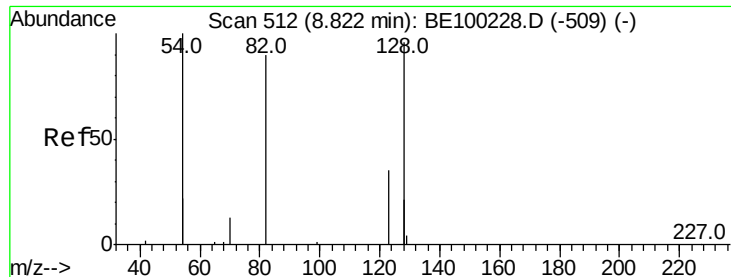
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.108 ng

RT: 8.82 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampled :

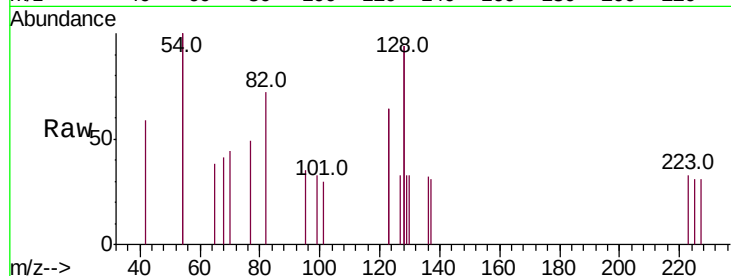
Tot Ion: 82 Resp: 258

Ion Ratio Lower Upper

82 100

128 260.4 140.9 211.3#

54 277.4 146.2 219.2#

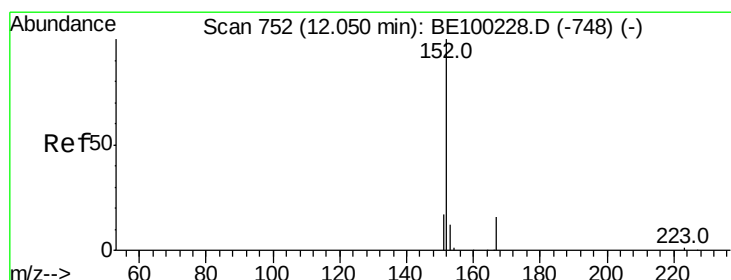
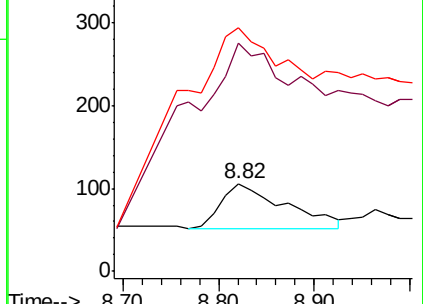
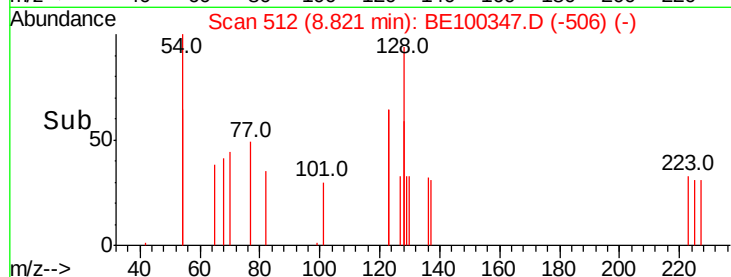


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Time--> 8.70 8.80 8.90



#11

2-Methylnaphthalene-d10

Concen: 0.121 ng

RT: 12.05 min Scan# 752

Delta R.T. 0.00 min

Lab File: BE100347.D

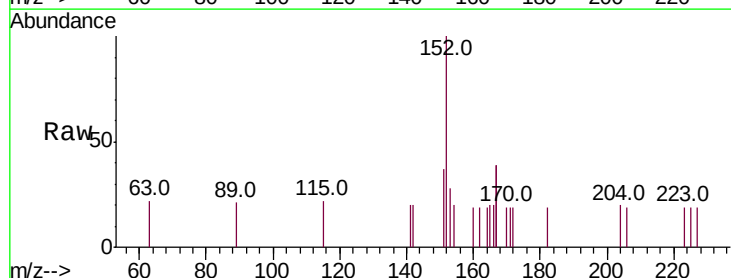
Acq: 4 Jul 2019 2:23

Tgt Ion: 152 Resp: 549

Ion Ratio Lower Upper

152 100

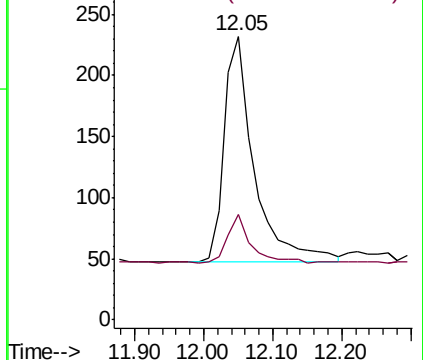
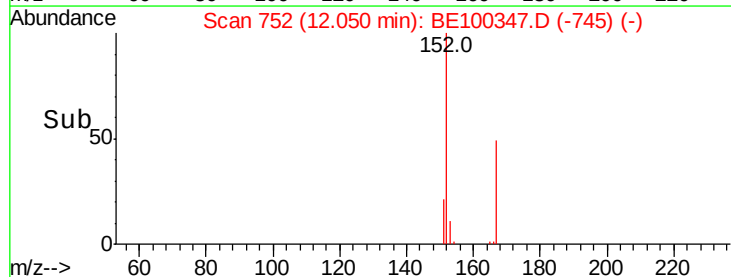
151 18.2 15.1 22.7

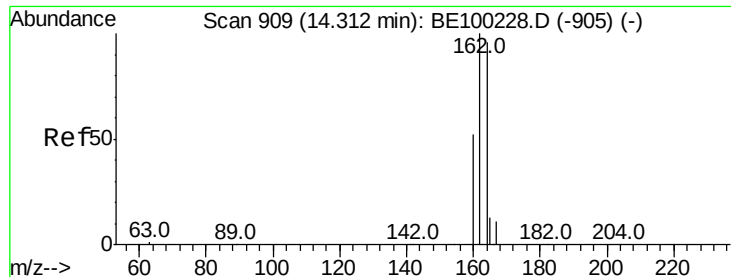


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Time--> 11.90 12.00 12.10 12.20

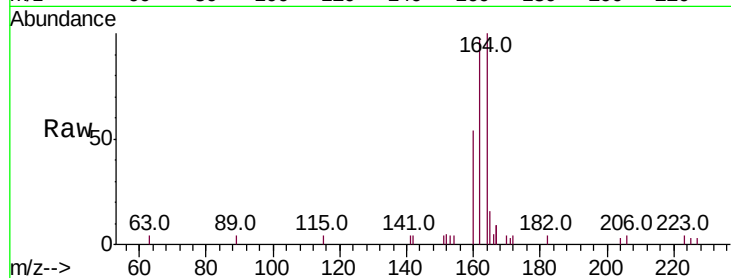




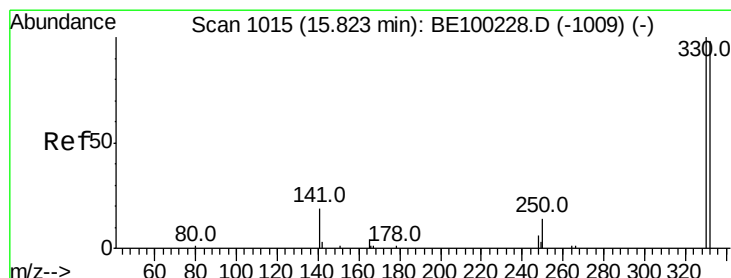
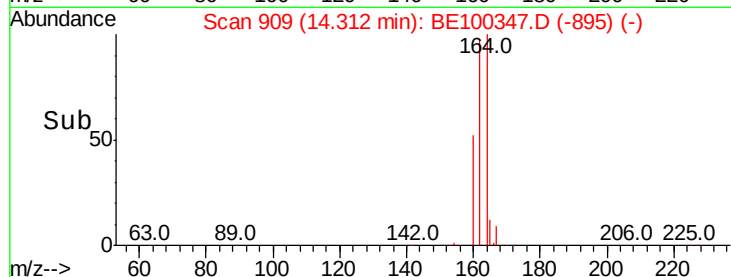
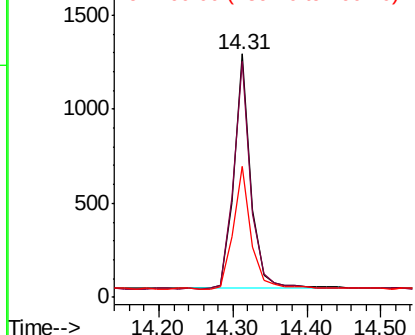
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 909
Delta R.T. 0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 1982
Ion Ratio Lower Upper
164 100
162 96.8 83.4 125.0
160 53.6 45.0 67.6

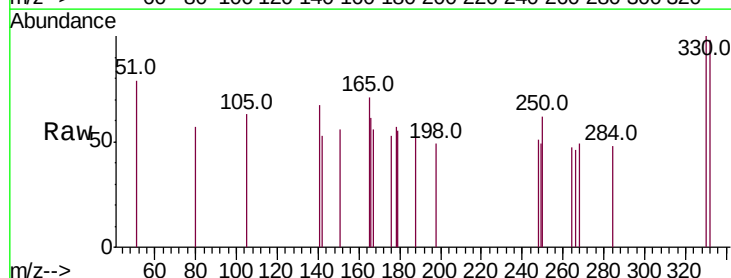


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

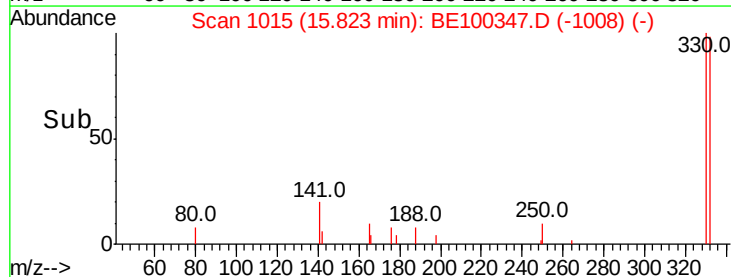
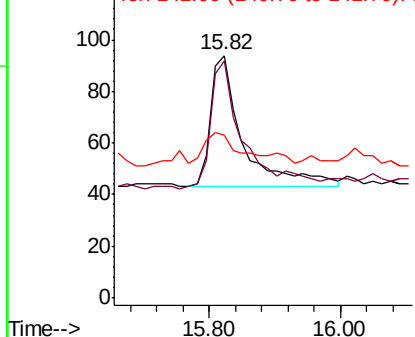


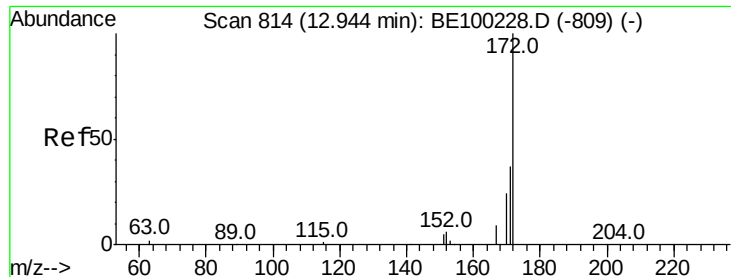
#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.82 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:330 Resp: 174
Ion Ratio Lower Upper
330 100
332 101.7 77.0 115.4
141 27.6 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

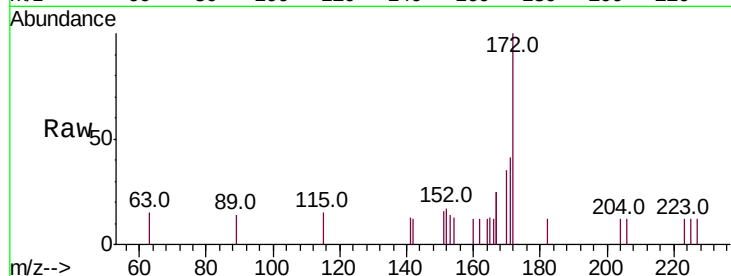




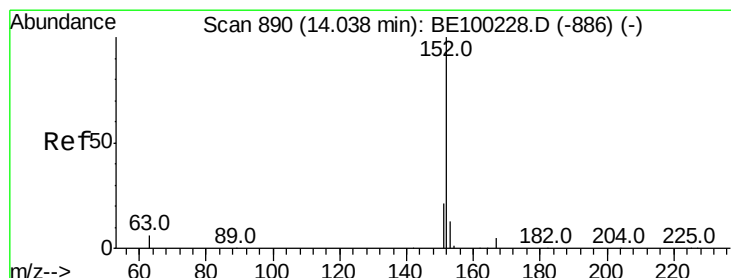
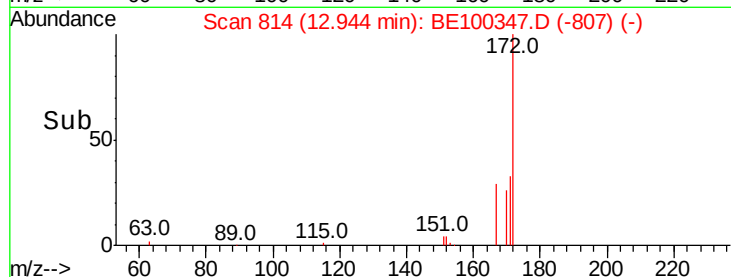
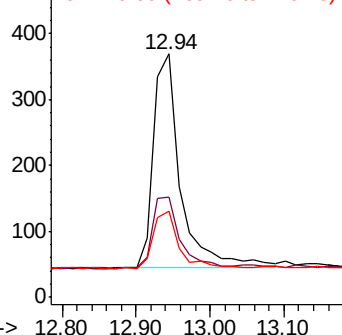
#15
2-Fluorobiphenyl
Concen: 0.107 ng
RT: 12.94 min Scan# 814
Delta R.T. 0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 824
Ion Ratio Lower Upper
172 100
171 41.2 31.9 47.9
170 35.2 22.2 33.2#

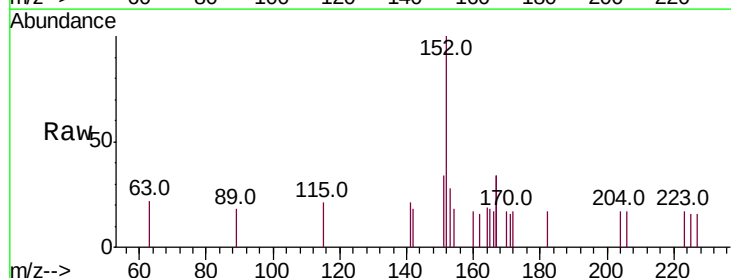


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

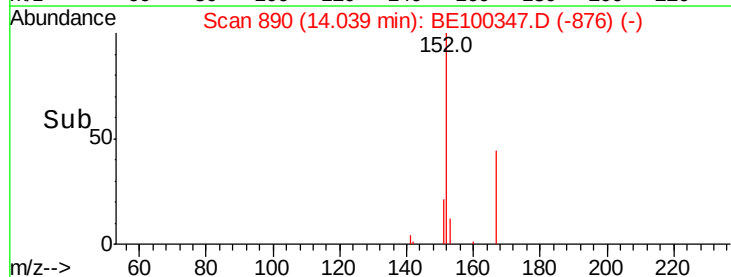
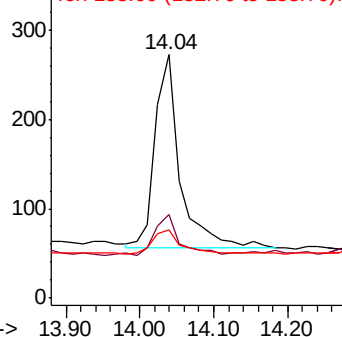


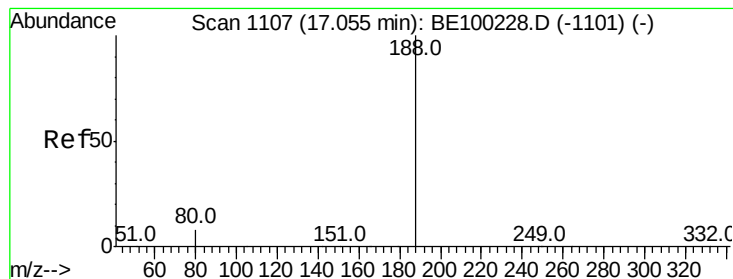
#16
Acenaphthylene
Concen: 0.052 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:152 Resp: 498
Ion Ratio Lower Upper
152 100
151 21.5 16.6 25.0
153 15.1 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

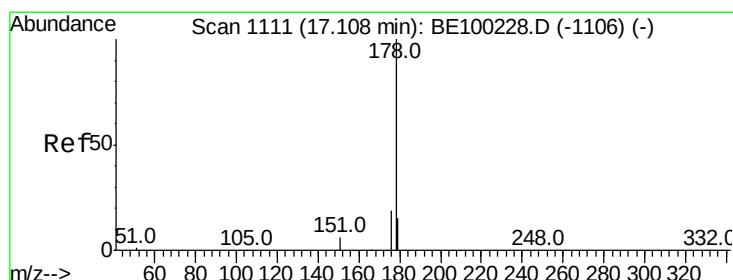
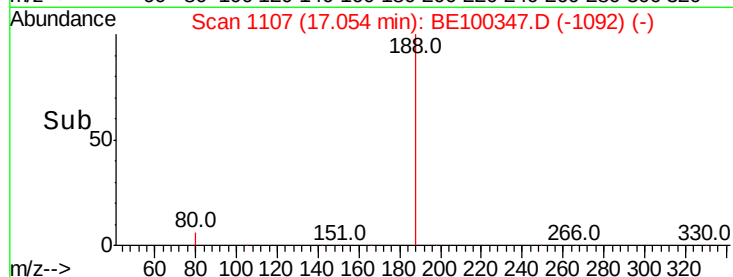
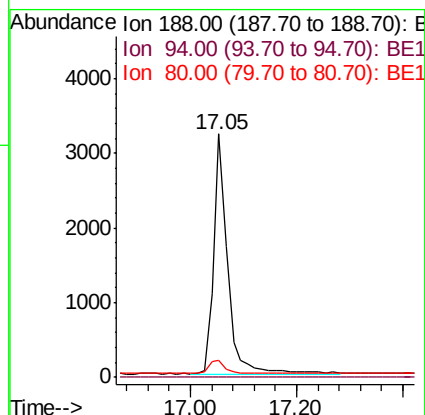
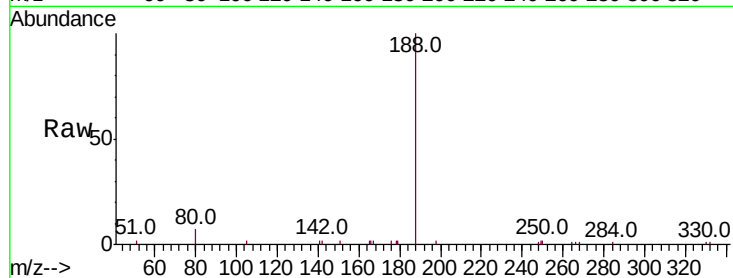




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.05 min Scan# 1107
Delta R.T. -0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

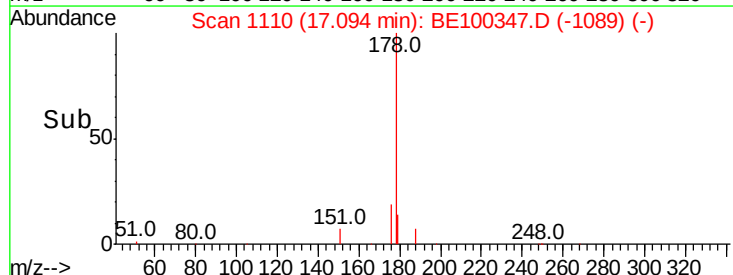
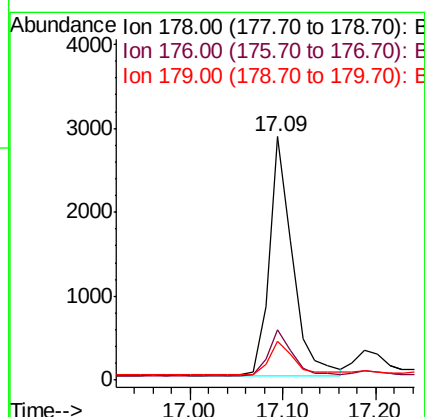
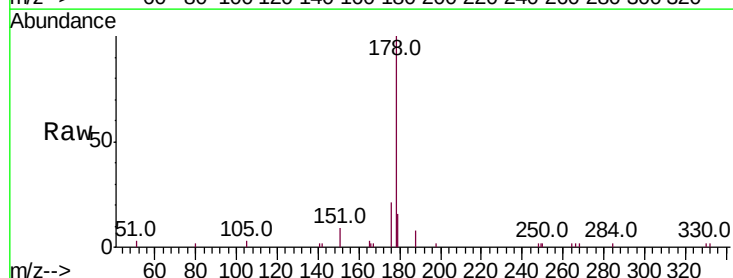
Instrument :
BNA_E
ClientSampleId :

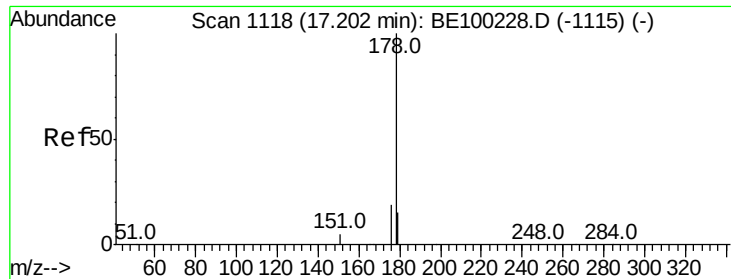
Tot Ion:188 Resp: 5795
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.2 7.6 11.4#



#23
Phenanthrene
Concen: 0.350 ng
RT: 17.09 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:178 Resp: 4914
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 14.8 12.2 18.2

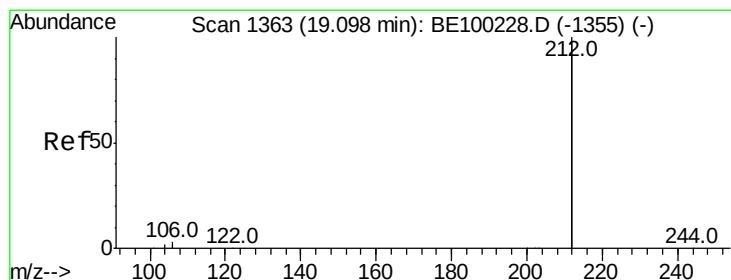
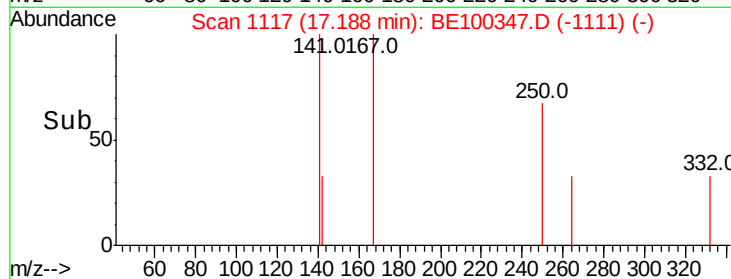
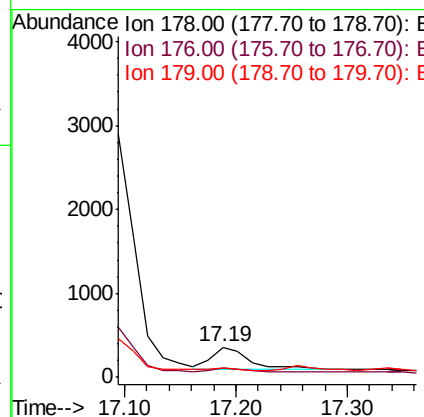
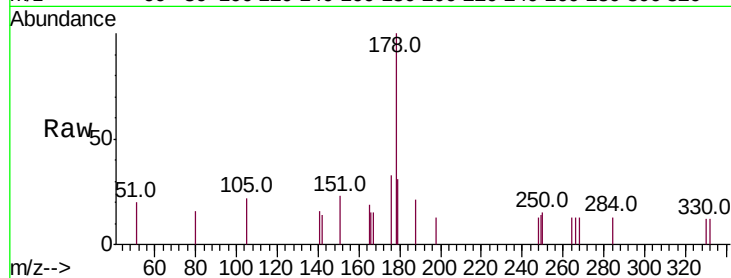




#24
 Anthracene
 Concen: 0.046 ng
 RT: 17.19 min Scan# 1117
 Delta R.T. -0.01 min
 Lab File: BE100347.D
 Acq: 4 Jul 2019 2:23

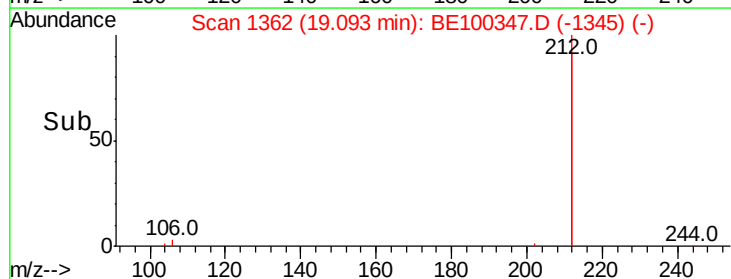
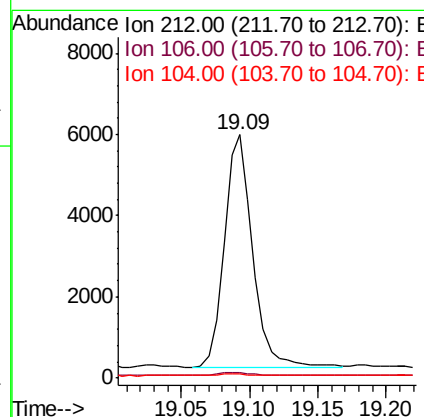
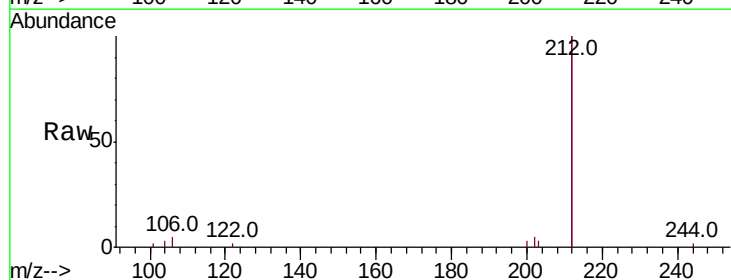
Instrument :
 BNA_E
 ClientSampleId :

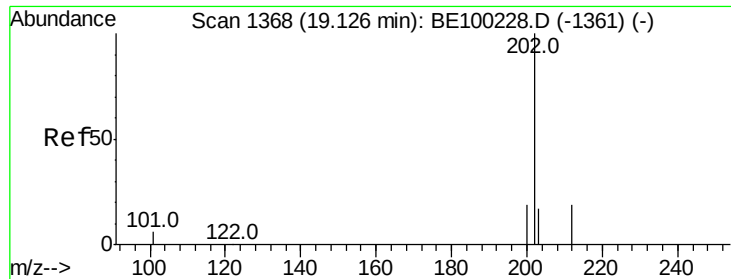
Tot Ion:178 Resp: 578
 Ion Ratio Lower Upper
 178 100
 176 21.1 15.3 22.9
 179 9.9 12.2 18.2#



#25
 Fluoranthene-d10
 Concen: 0.098 ng
 RT: 19.09 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: BE100347.D
 Acq: 4 Jul 2019 2:23

Tgt Ion:212 Resp: 8226
 Ion Ratio Lower Upper
 212 100
 106 1.7 1.3 1.9
 104 0.9 0.8 1.2

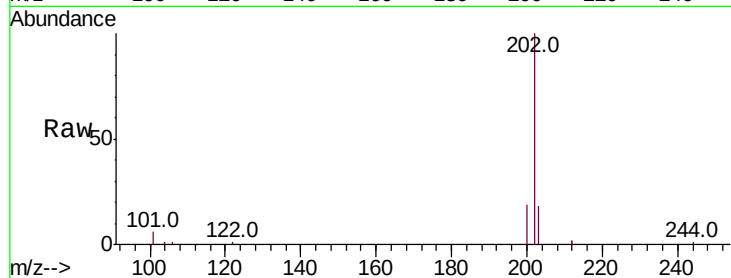




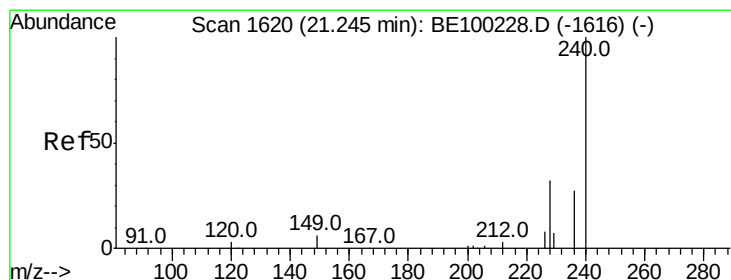
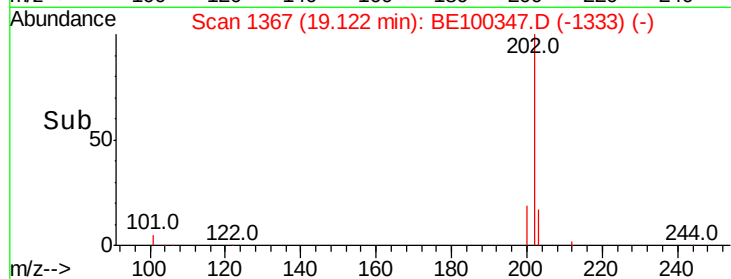
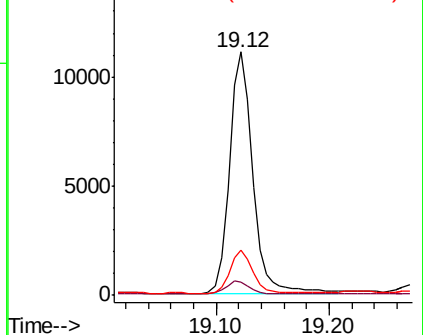
#26
 Fluoranthene
 Concen: 0.714 ng
 RT: 19.12 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: BE100347.D
 Acq: 4 Jul 2019 2:23

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:202 Resp: 15967
 Ion Ratio Lower Upper
 202 100
 101 5.4 4.6 7.0
 203 17.2 13.7 20.5

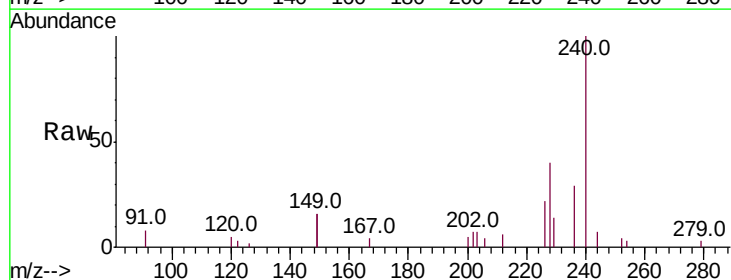


Abundance Ion 202.00 (201.70 to 202.70): E
 15000 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

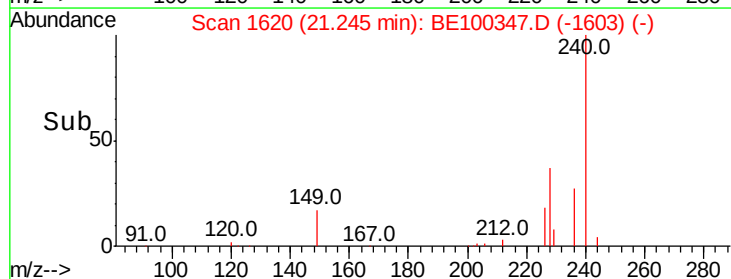
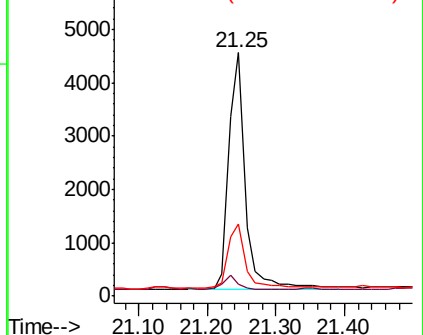


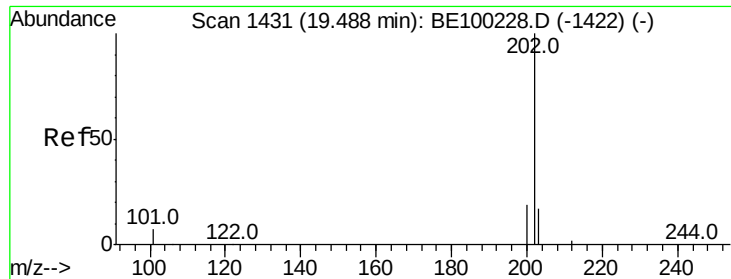
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 1620
 Delta R.T. 0.00 min
 Lab File: BE100347.D
 Acq: 4 Jul 2019 2:23

Tgt Ion:240 Resp: 7560
 Ion Ratio Lower Upper
 240 100
 120 4.7 3.3 4.9
 236 29.4 22.6 34.0



Abundance Ion 240.00 (239.70 to 240.70): E
 6000 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

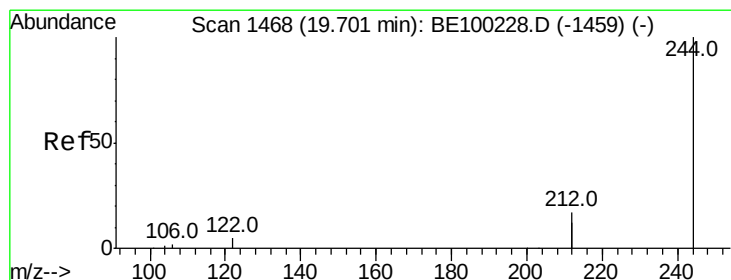
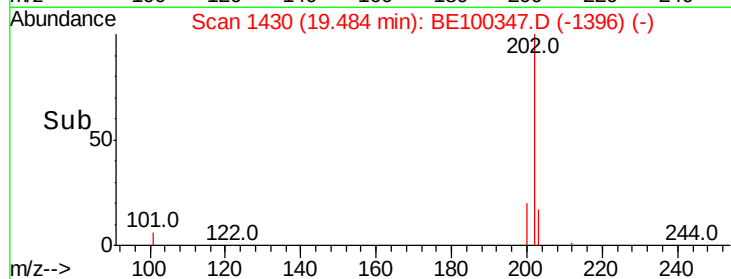
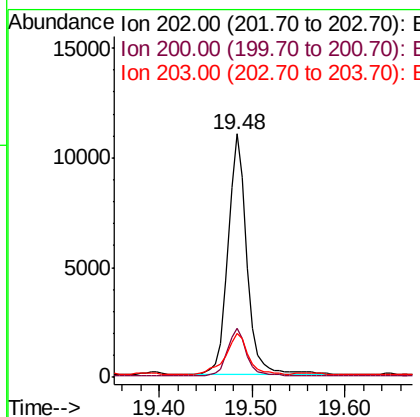
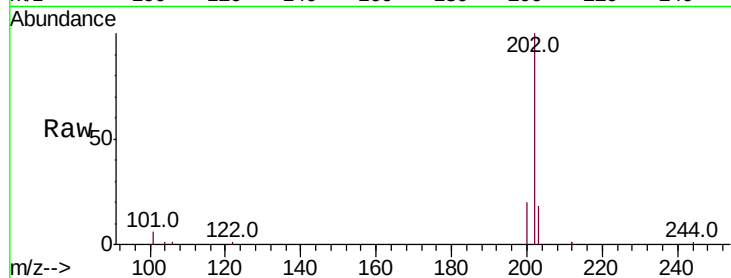




#28
Pvrene
Concen: 0.774 ng
RT: 19.48 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

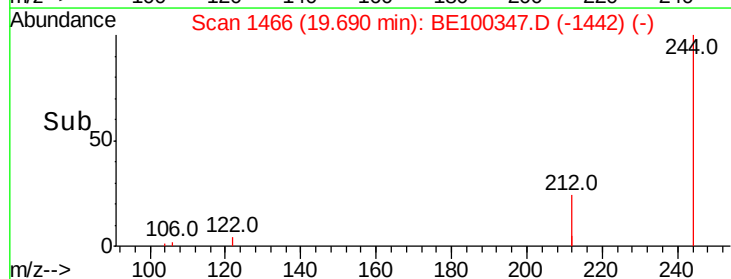
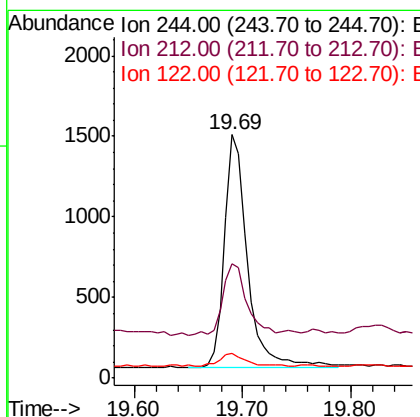
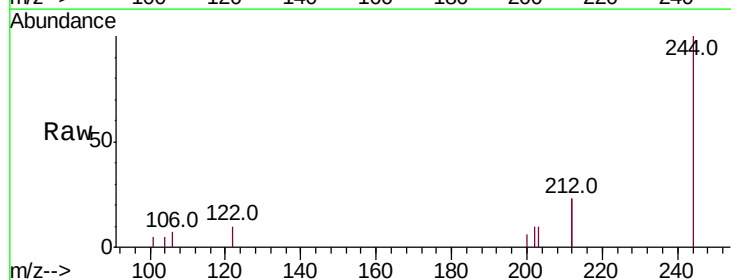
Instrument :
BNA_E
ClientSampleId :

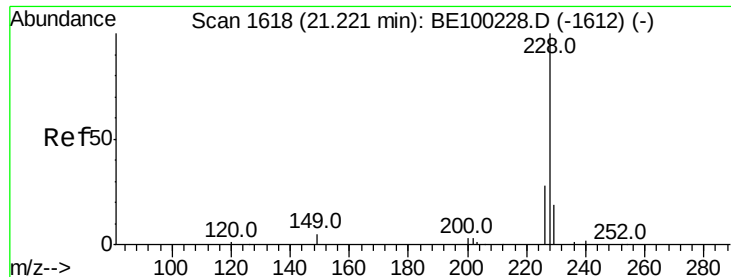
Tot Ion:202 Resp: 15492
Ion Ratio Lower Upper
202 100
200 19.9 15.6 23.4
203 20.0 14.0 21.0



#29
Terphenyl-d14
Concen: 0.137 ng
RT: 19.69 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:244 Resp: 2147
Ion Ratio Lower Upper
244 100
212 46.7 27.3 40.9#
122 9.9 4.7 7.1#





#30

Benzo(a)anthracene

Concen: 0.342 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampleId :

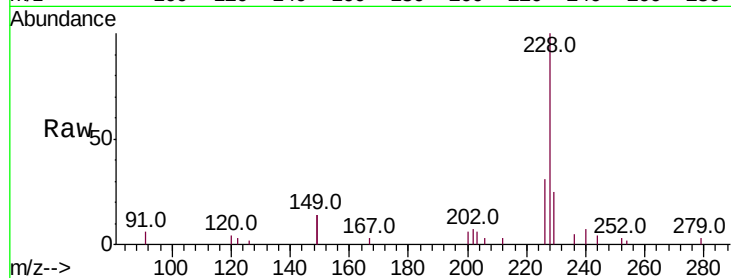
Tot Ion:228 Resp: 8500

Ion Ratio Lower Upper

228 100

226 31.3 23.2 34.8

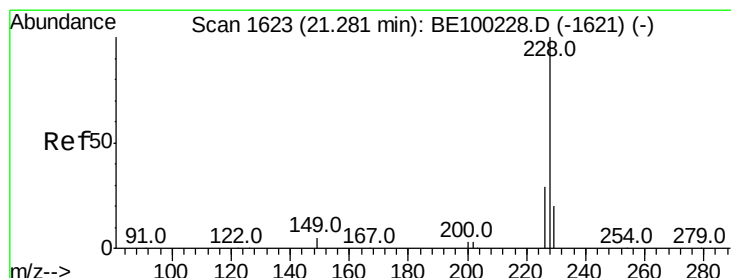
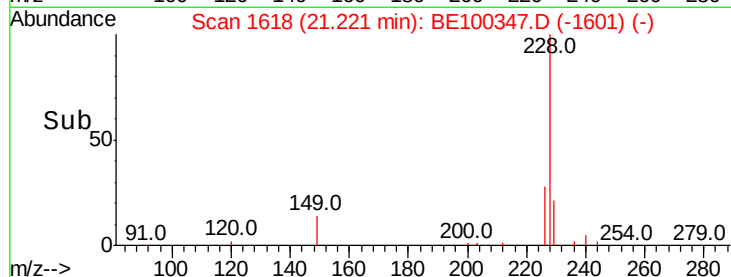
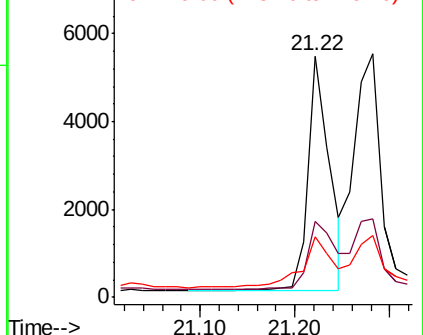
229 24.8 15.7 23.5#



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: 0.404 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

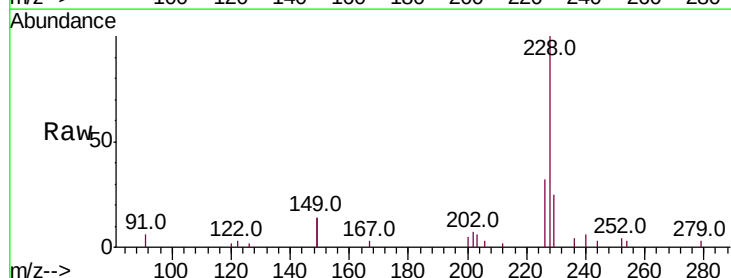
Tgt Ion:228 Resp: 10075

Ion Ratio Lower Upper

228 100

226 32.1 23.9 35.9

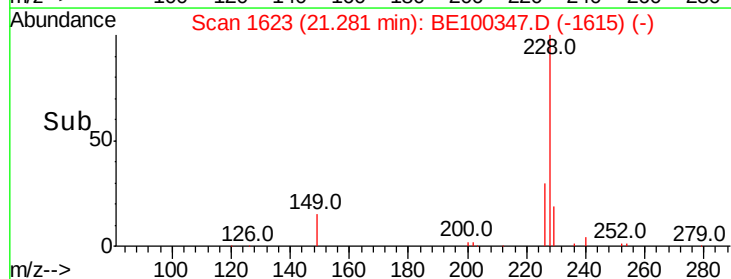
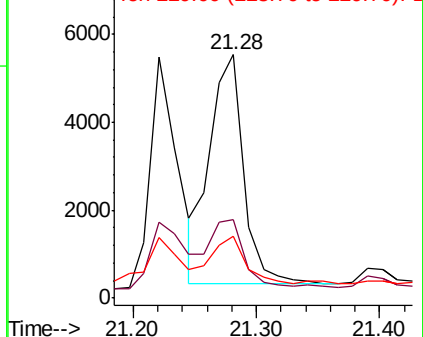
229 25.4 16.5 24.7#

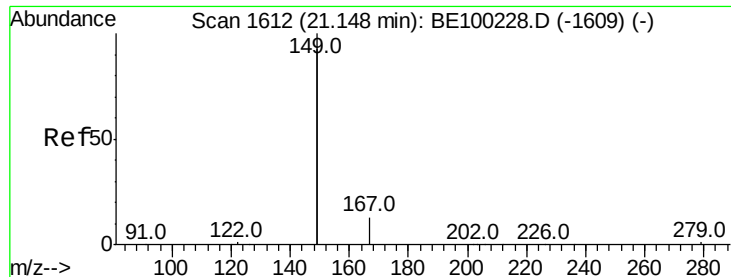


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.427 ng

RT: 21.15 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampleId :

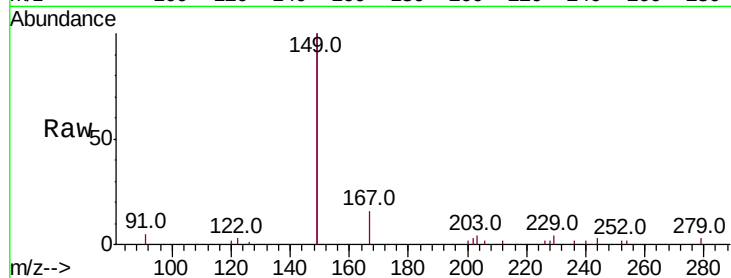
Tot Ion:149 Resp: 17021

Ion Ratio Lower Upper

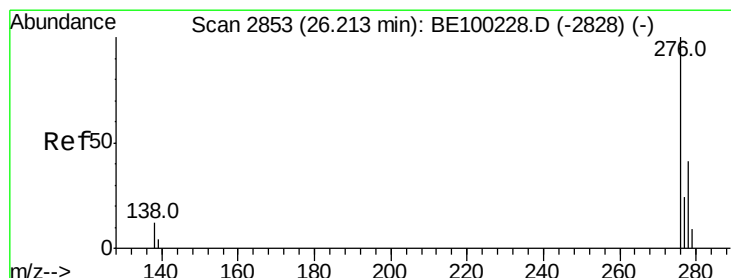
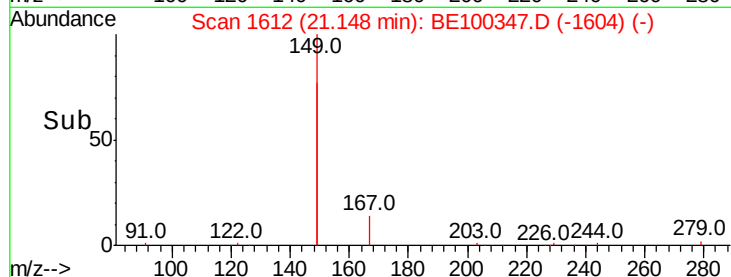
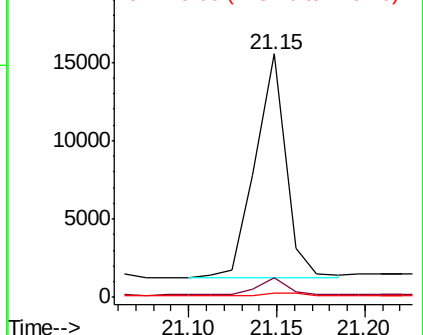
149 100

167 7.5 5.8 8.8

279 1.4 1.1 1.7



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: 0.222 ng

RT: 26.22 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

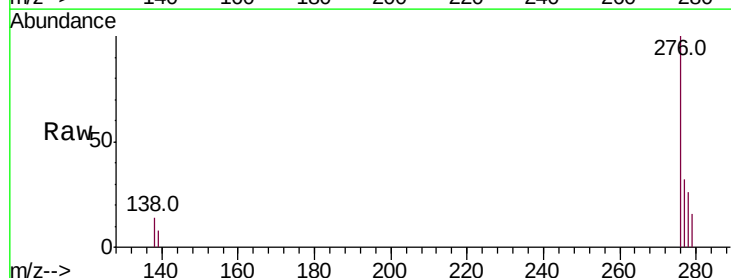
Tgt Ion:276 Resp: 7315

Ion Ratio Lower Upper

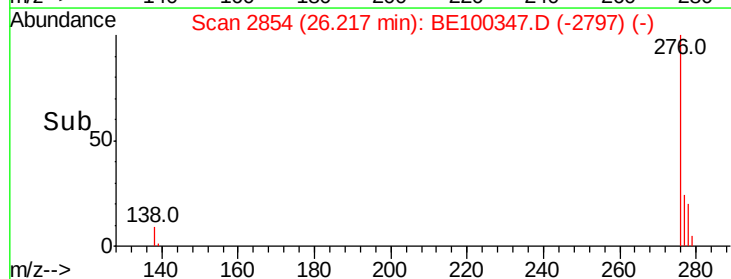
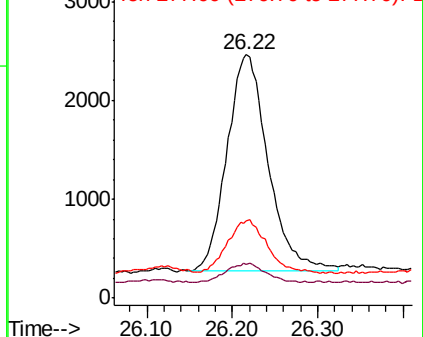
276 100

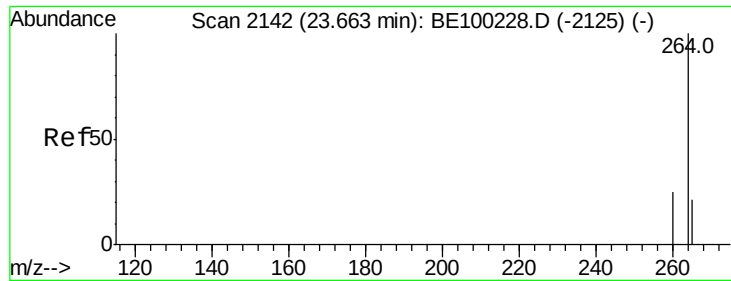
138 8.5 9.4 14.0#

277 24.0 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



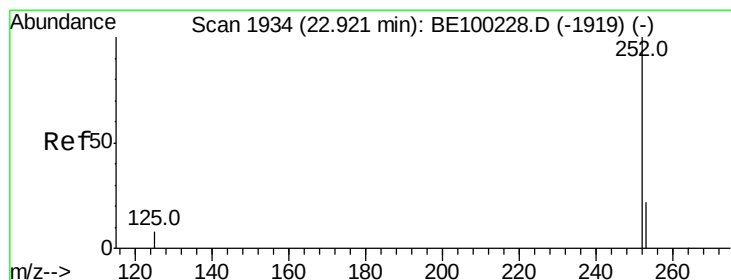
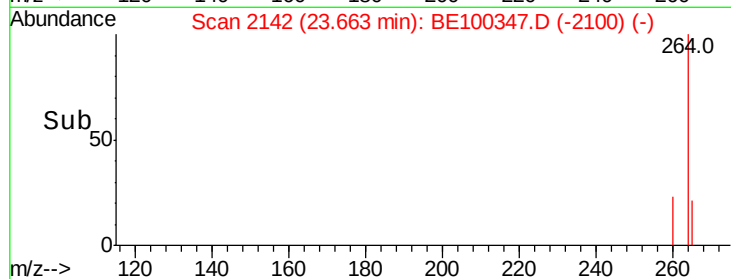
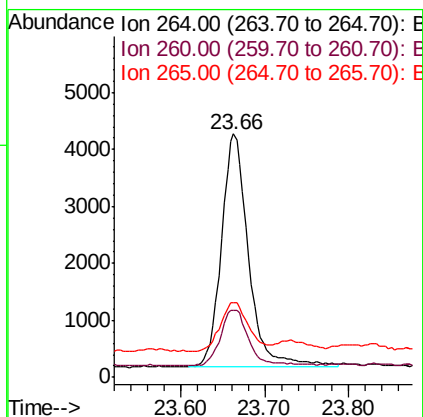
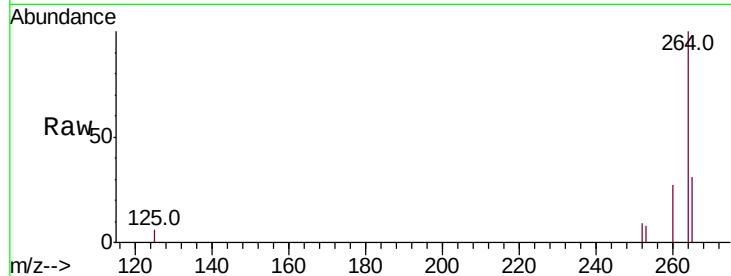


#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.66 min Scan# 2142
Delta R.T. -0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Instrument :
BNA_E
ClientSampleId :

Tot Ion:264 Resp: 9155

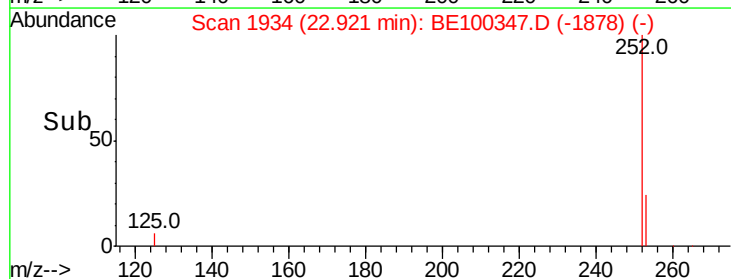
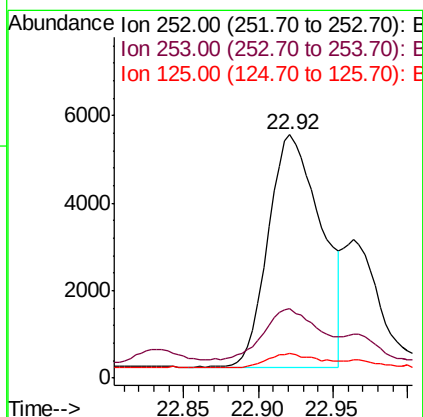
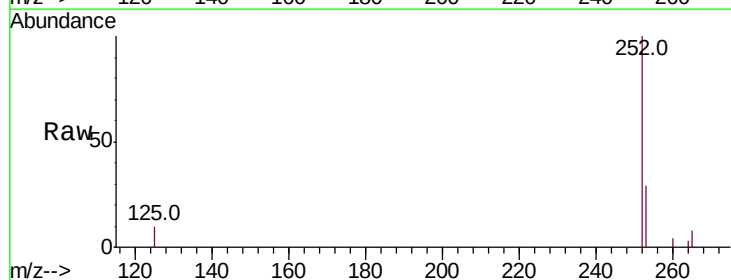
Ion	Ratio	Lower	Upper
264	100		
260	27.5	20.8	31.2
265	30.9	21.8	32.6

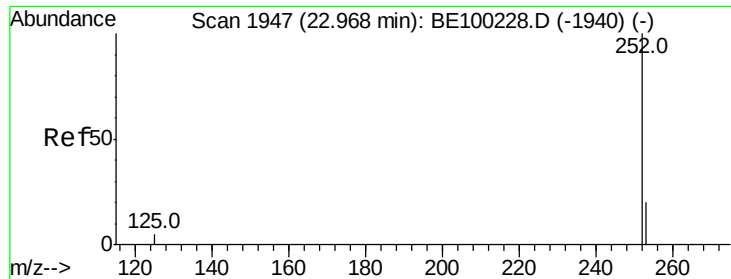


#35
Benzo(b)fluoranthene
Concen: 0.527 ng
RT: 22.92 min Scan# 1934
Delta R.T. -0.00 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:252 Resp: 13088

Ion	Ratio	Lower	Upper
252	100		
253	28.8	19.2	28.8
125	10.0	7.4	11.0

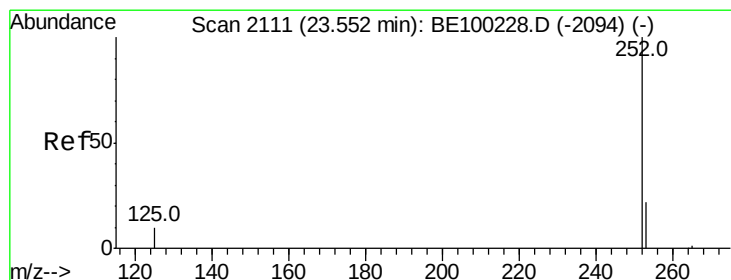
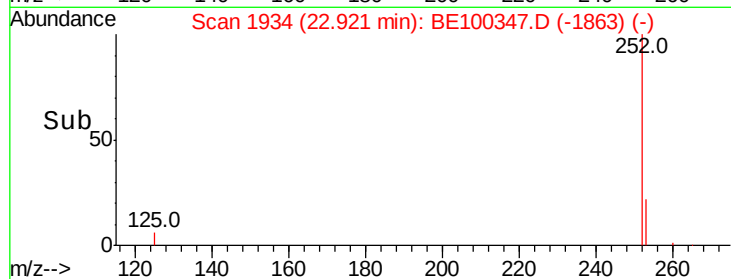
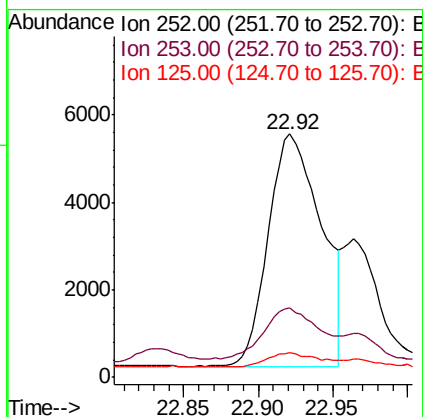
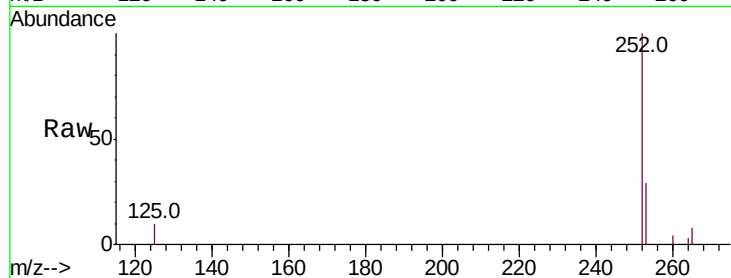




#36
Benzo(k)fluoranthene
Concen: 0.472 ng
RT: 22.92 min Scan# 1934
Delta R.T. -0.05 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

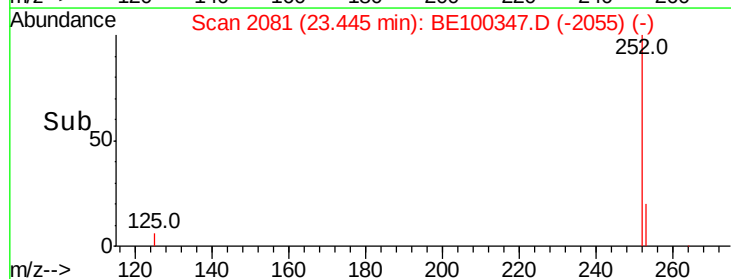
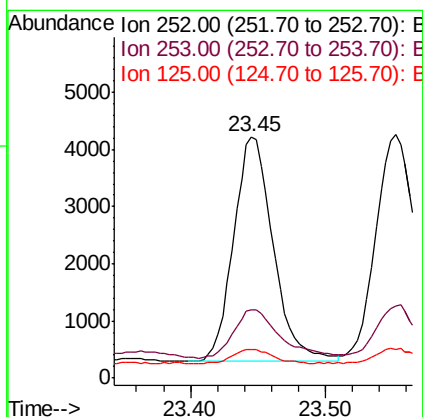
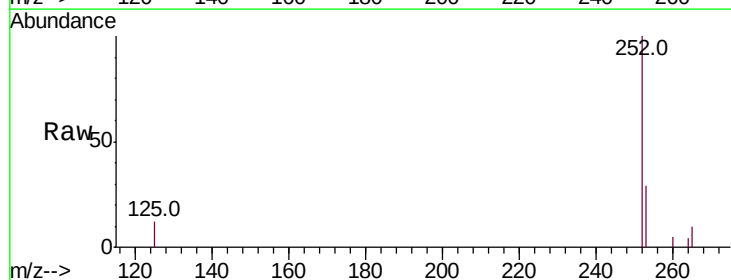
Instrument :
BNA_E
ClientSampleId :

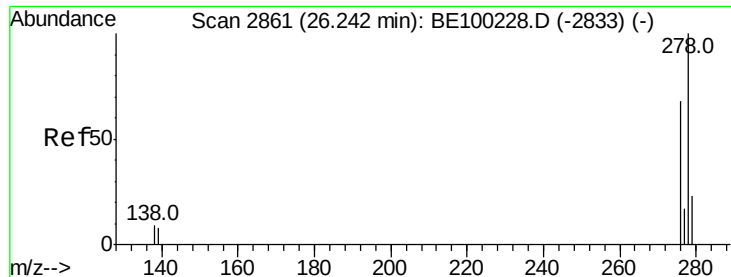
Tot Ion:252 Resp: 13088
Ion Ratio Lower Upper
252 100
253 28.8 17.9 26.9#
125 10.0 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 0.321 ng
RT: 23.45 min Scan# 2081
Delta R.T. -0.11 min
Lab File: BE100347.D
Acq: 4 Jul 2019 2:23

Tgt Ion:252 Resp: 7991
Ion Ratio Lower Upper
252 100
253 28.5 19.6 29.4
125 11.7 9.0 13.6





#38

Dibenzo(a,h)anthracene

Concen: 0.068 ng

RT: 26.22 min Scan# 2855

Delta R.T. -0.02 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

Instrument :

BNA_E

ClientSampleId :

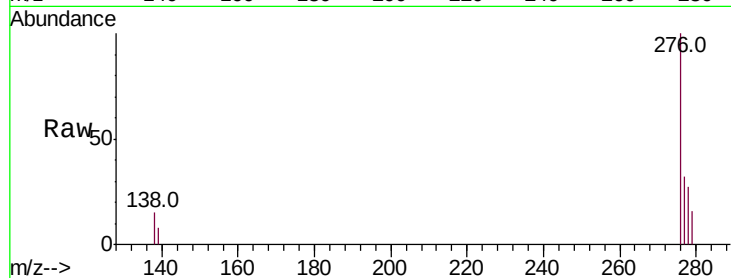
Tot Ion:278 Resp: 1774

Ion Ratio Lower Upper

278 100

139 30.3 8.2 12.2#

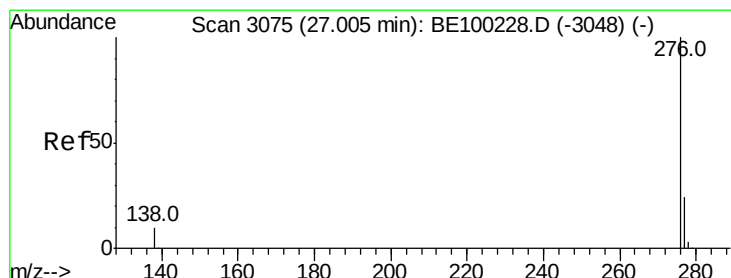
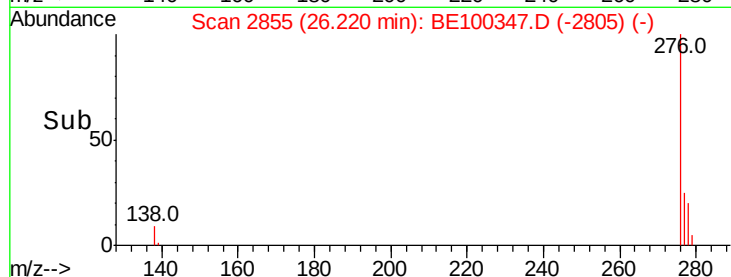
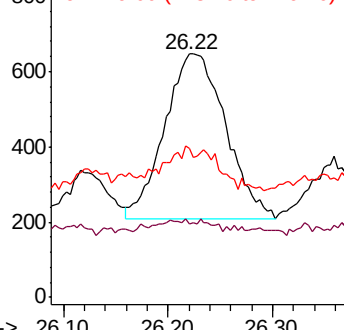
279 61.2 20.3 30.5#



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: 0.353 ng

RT: 27.00 min Scan# 3075

Delta R.T. -0.00 min

Lab File: BE100347.D

Acq: 4 Jul 2019 2:23

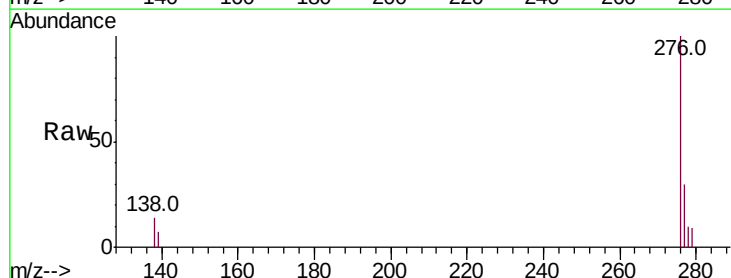
Tgt Ion:276 Resp: 9422

Ion Ratio Lower Upper

276 100

277 29.7 20.2 30.2

138 13.6 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

