

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE102819\
 Data File : BE100687.D
 Acq On : 28 Oct 2019 23:24
 Operator : JU
 Sample : K5569-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 29 11:54:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 23 16:49:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	3613	0.40	ng	0.00
7) Naphthalene-d8	10.63	136	16225	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	11305	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	27199	0.40	ng	-0.01
27) Chrysene-d12	21.35	240	30405	0.40	ng	0.00
34) Perylene-d12	23.82	264	33433	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.45	112	1776	0.16	ng	0.00
5) Phenol-d6	7.01	99	2146	0.14	ng	0.00
8) Nitrobenzene-d5	8.99	82	2925	0.29	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	5853	0.23	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	998	0.33	ng	0.00
15) 2-Fluorobiphenyl	13.10	172	7935	0.19	ng	0.00
25) Fluoranthene-d10	19.21	212	73051	0.21	ng	0.00
29) Terphenyl-d14	19.81	244	13432	0.20	ng	0.00

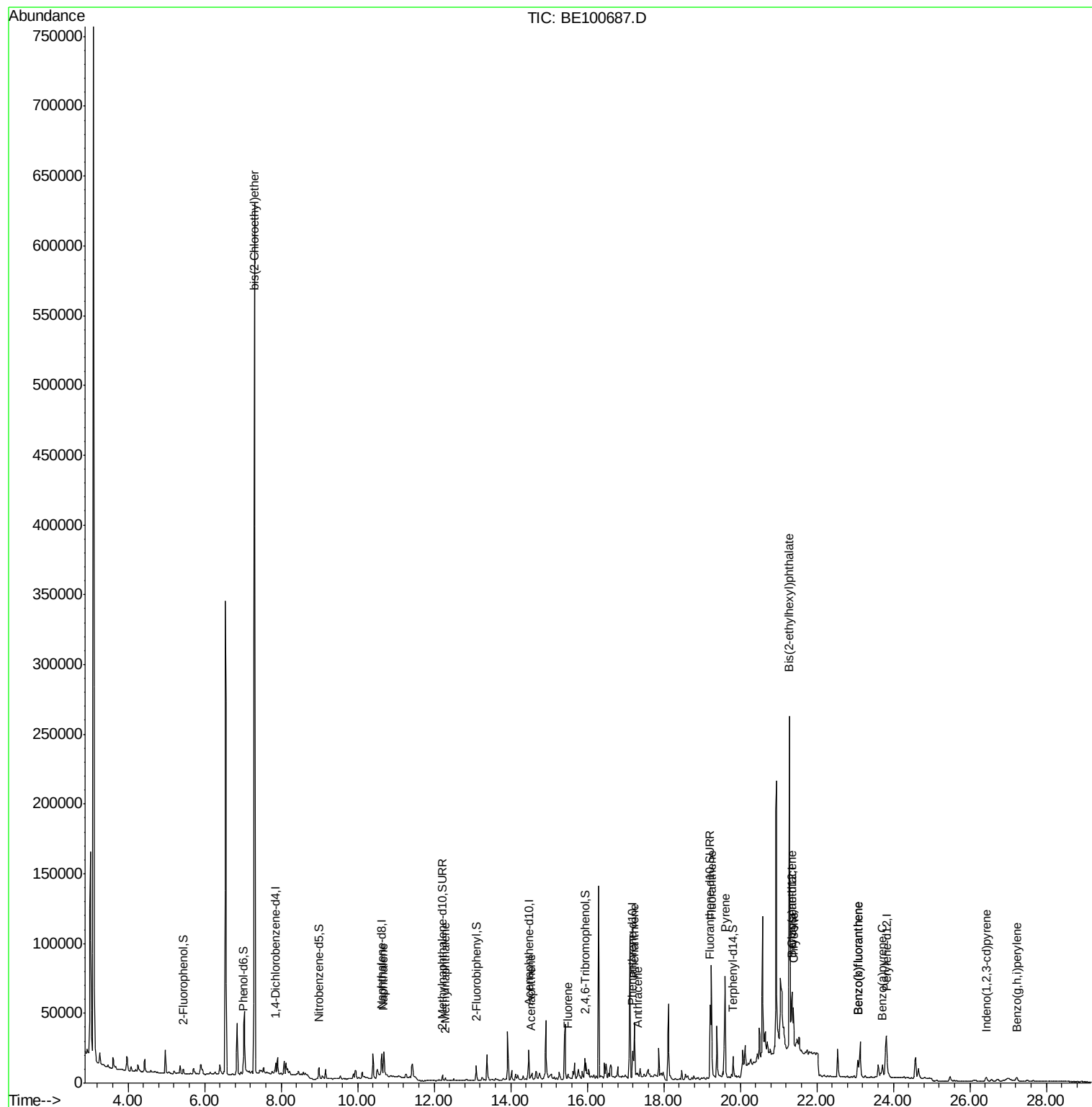
Target Compounds				Qvalue		
6) bis(2-Chloroethyl)ether	7.30	93	838204	64.906	ng	# 1
9) Naphthalene	10.68	128	7629	0.045	ng	# 97
12) 2-Methylnaphthalene	12.30	142	1588	0.055	ng	# 96
17) Acenaphthene	14.53	154	1393	0.044	ng	# 84
18) Fluorene	15.50	166	2604	0.062	ng	# 97
23) Phenanthrene	17.23	178	42707	0.571	ng	# 99
24) Anthracene	17.32	178	2957	0.043	ng	# 82
26) Fluoranthene	19.25	202	72009	0.737	ng	# 83
28) Pyrene	19.60	202	67061	0.789	ng	# 95
30) Benzo(a)anthracene	21.34	228	19609	0.198	ng	# 92
31) Chrysene	21.39	228	28888	0.291	ng	# 96
32) Bis(2-ethylhexyl)phthalate	21.28	149	299222	1.442	ng	# 100
33) Indeno(1,2,3-cd)pyrene	26.43	276	6177	0.051	ng	# 96
35) Benzo(b)fluoranthene	23.07	252	24600	0.252	ng	# 83
36) Benzo(k)fluoranthene	23.07	252	24600	0.245	ng	# 87
37) Benzo(a)pyrene	23.71	252	12486	0.138	ng	# 74
39) Benzo(a,h,i)perylene	27.23	276	7288	0.077	ng	# 84

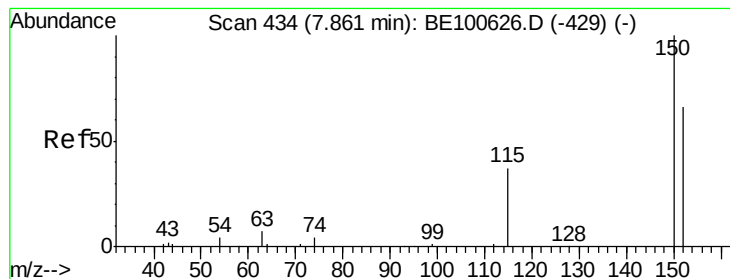
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. 0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

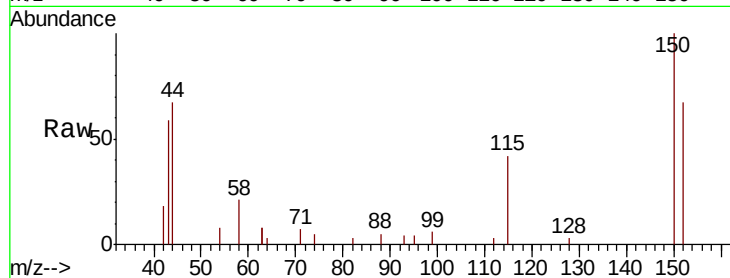
Tot Ion:152 Resp: 3613

Ion Ratio Lower Upper

152 100

150 149.9 123.3 184.9

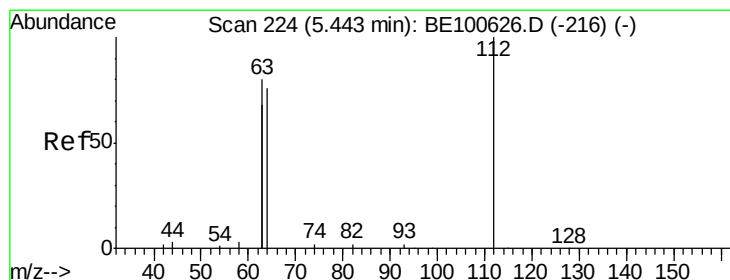
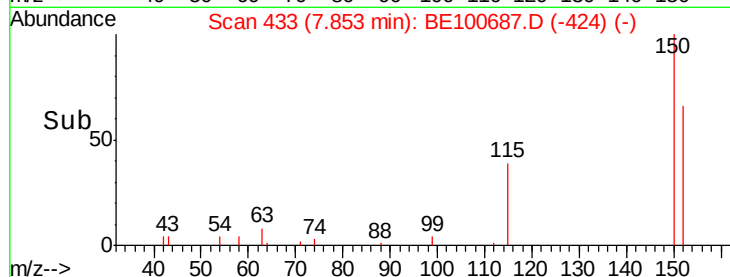
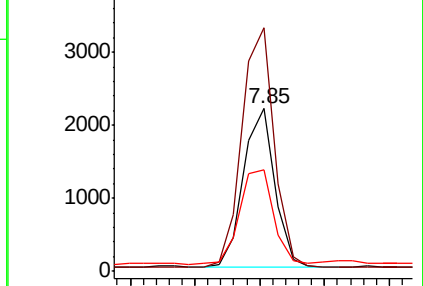
115 62.8 51.9 77.9



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: 0.159 ng

RT: 5.45 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

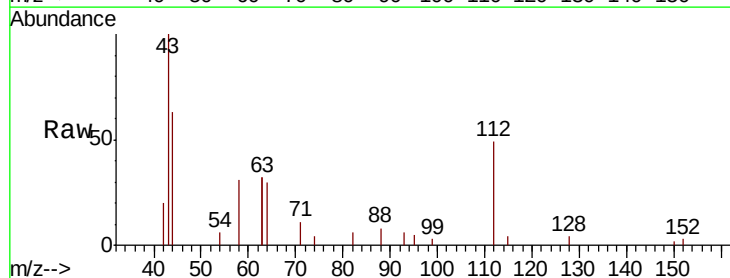
Tgt Ion:112 Resp: 1776

Ion Ratio Lower Upper

112 100

64 74.0 55.4 83.2

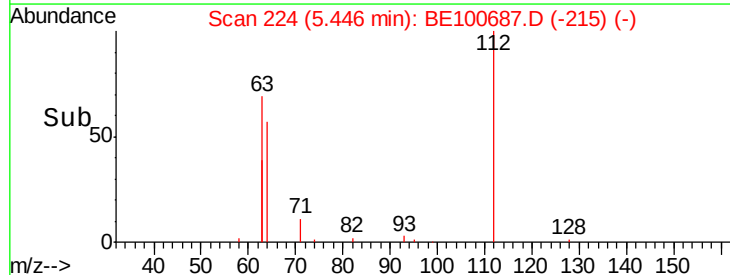
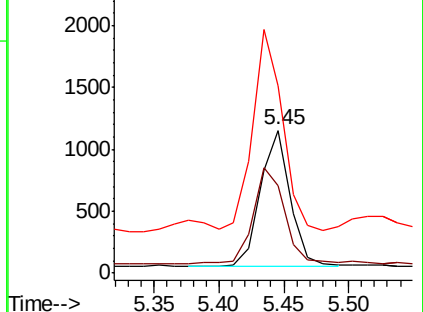
63 145.0 114.2 171.4

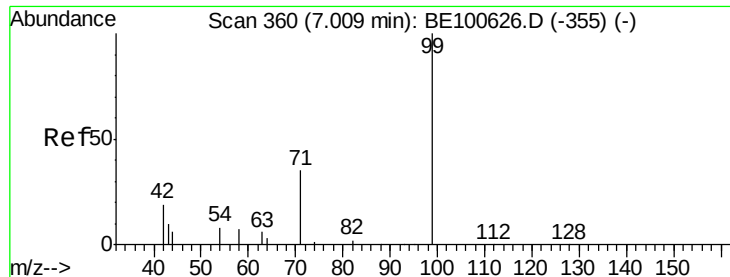


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.136 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

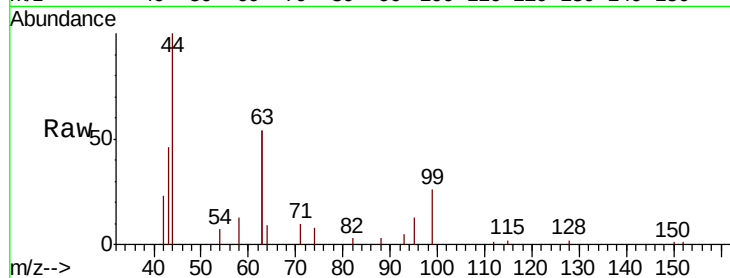
Tot Ion: 99 Resp: 2146

Ion Ratio Lower Upper

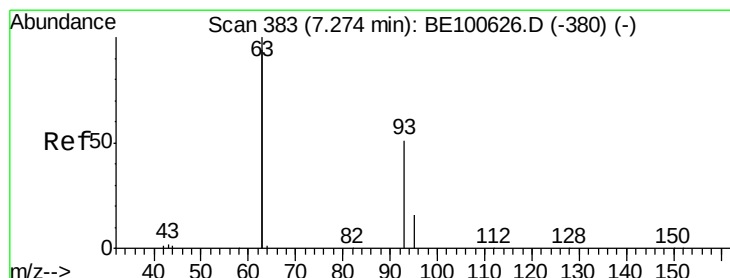
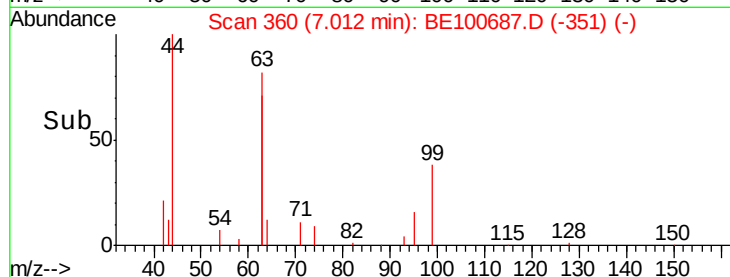
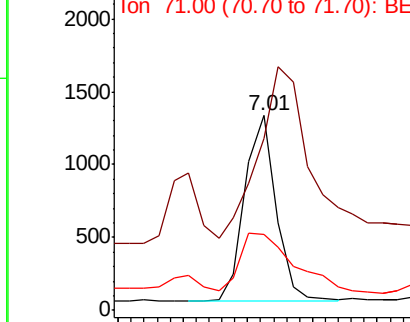
99 100

42 158.6 17.7 26.5#

71 0.0 27.4 41.0#



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



#6

bis(2-Chloroethyl)ether

Concen: 64.906 ng

RT: 7.30 min Scan# 385

Delta R.T. 0.03 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

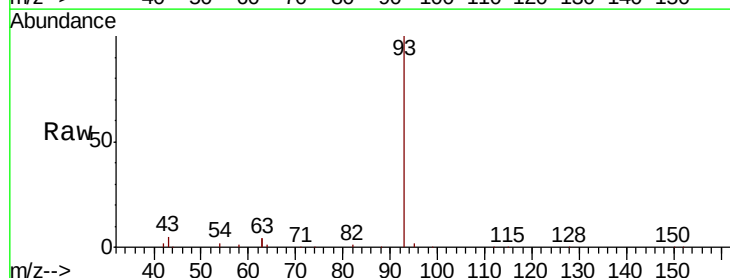
Tgt Ion: 93 Resp: 838204

Ion Ratio Lower Upper

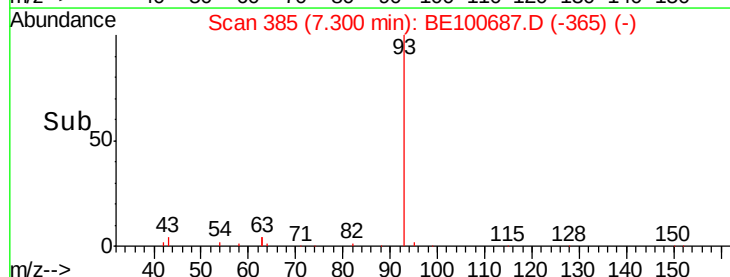
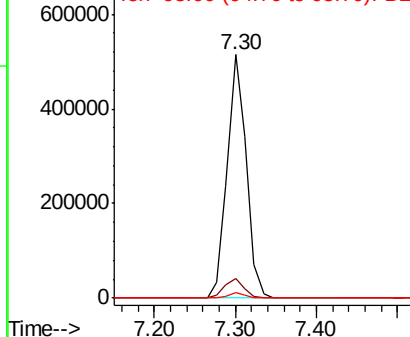
93 100

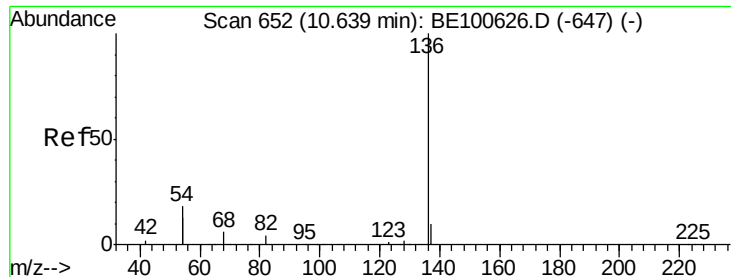
63 8.1 268.8 403.2#

95 2.1 25.6 38.4#



Abundance Ion 93.00 (92.70 to 93.70): BE1
Ion 63.00 (62.70 to 63.70): BE1
Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. -0.00 min

Lab File: BE100687.D

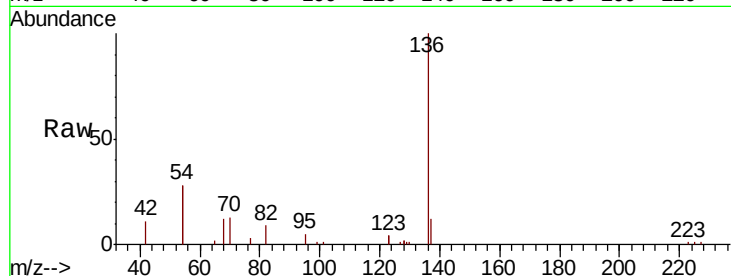
Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampled :

Tot Ion:136	Resp:	16225
Ion Ratio	Lower	Upper
136	100	
137	11.8	9.2 13.8
54	56.3	39.4 59.2
68	12.0	8.0 12.0#

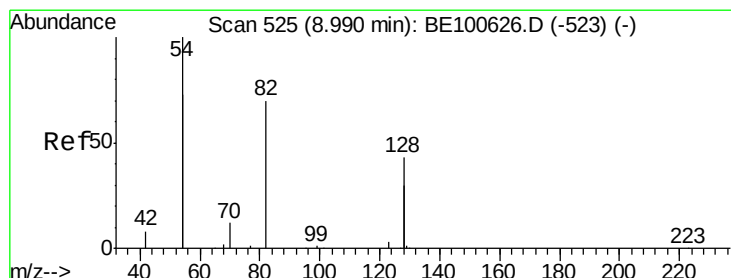
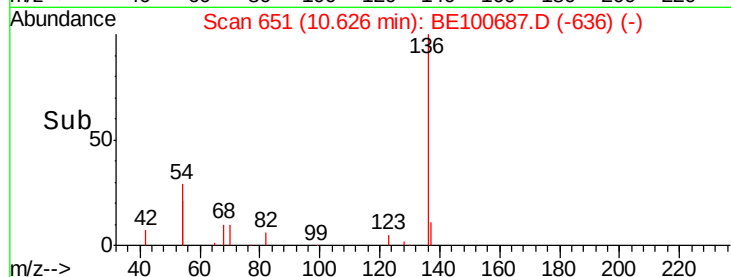
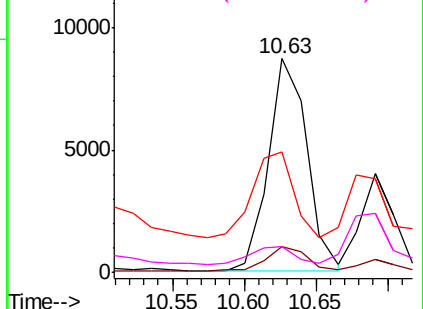


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.291 ng

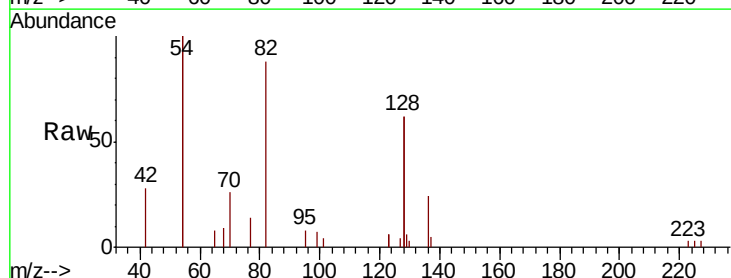
RT: 8.99 min Scan# 525

Delta R.T. -0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

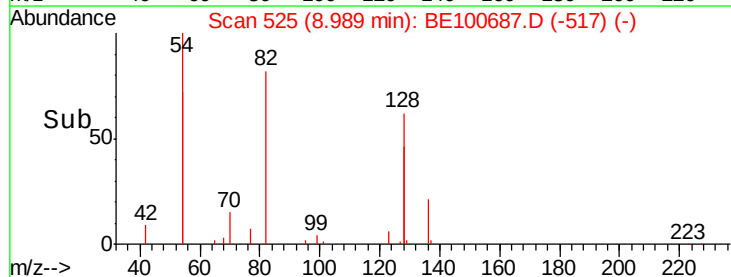
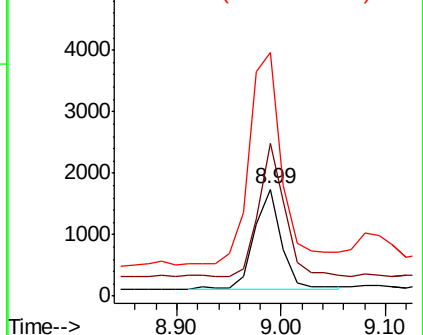
Tgt Ion: 82	Resp:	2925
Ion Ratio	Lower	Upper
82	100	
128	142.3	107.8 161.8
54	227.7	166.1 249.1

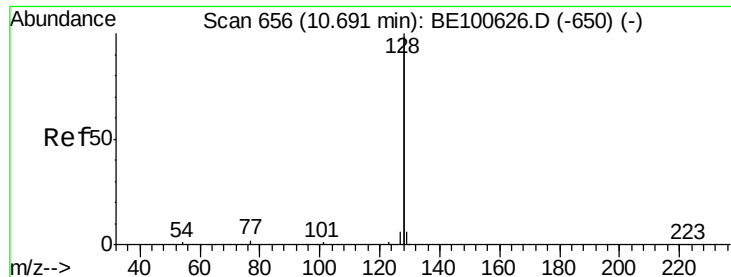


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.045 ng

RT: 10.68 min Scan# 655

Delta R.T. -0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

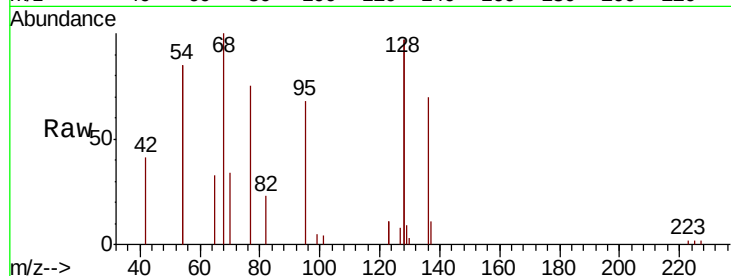
Tot Ion:128 Resp: 7629

Ion Ratio Lower Upper

128 100

129 4.5 2.3 3.5#

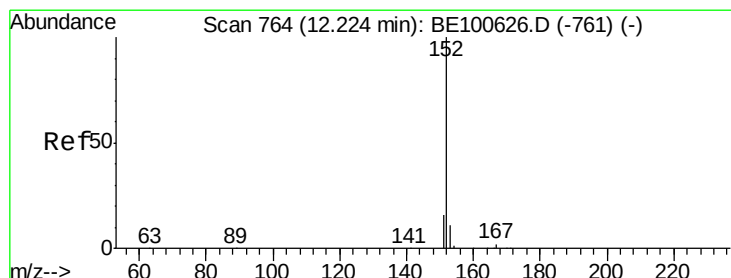
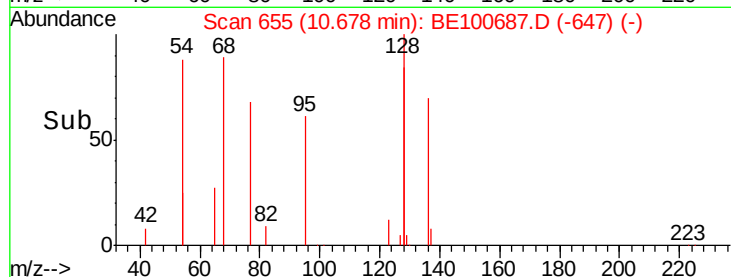
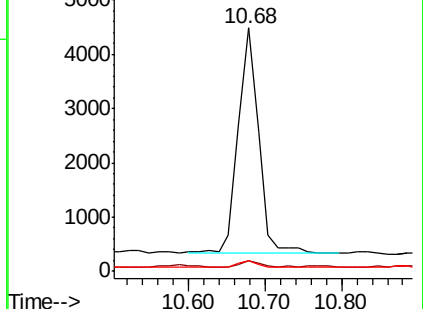
127 4.1 2.7 4.1#



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: 0.229 ng

RT: 12.22 min Scan# 764

Delta R.T. -0.00 min

Lab File: BE100687.D

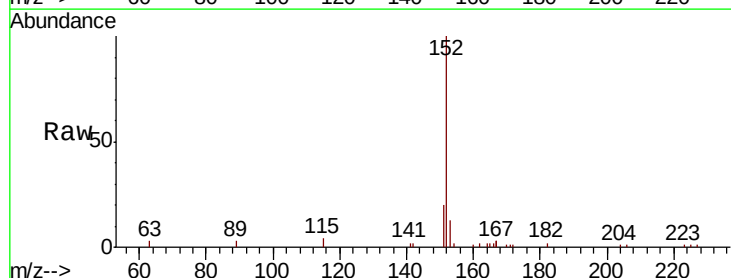
Acq: 28 Oct 2019 23:24

Tgt Ion:152 Resp: 5853

Ion Ratio Lower Upper

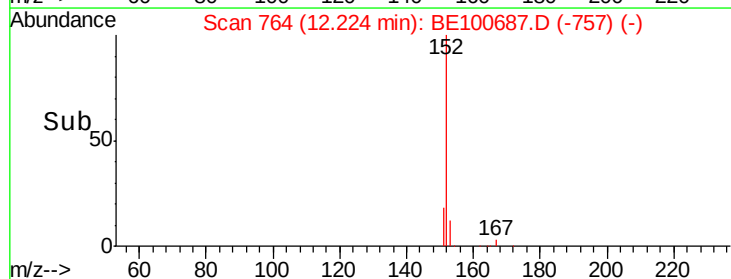
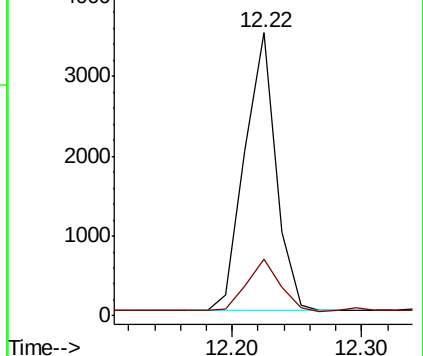
152 100

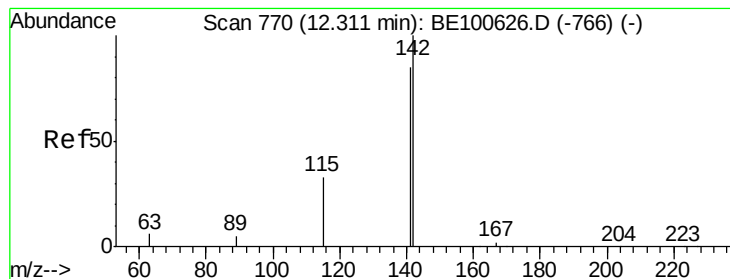
151 19.5 14.7 22.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.055 ng

RT: 12.30 min Scan# 769

Delta R.T. -0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

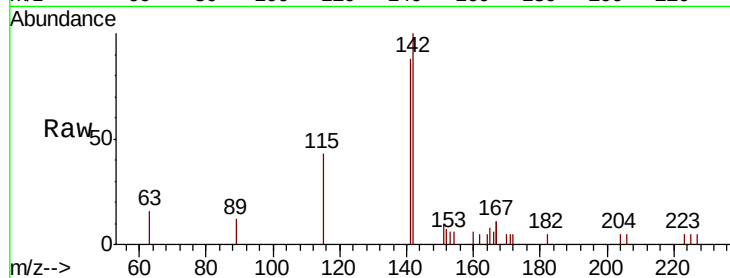
Tot Ion:142 Resp: 1588

Ion Ratio Lower Upper

142 100

141 88.3 70.1 105.1

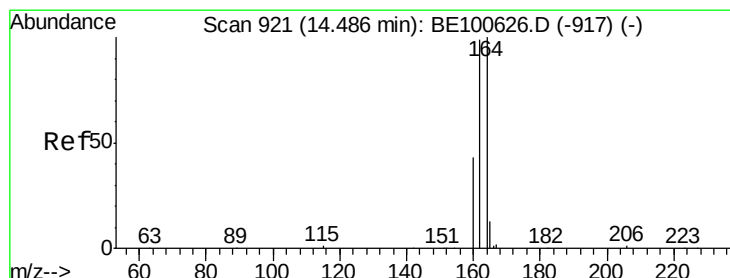
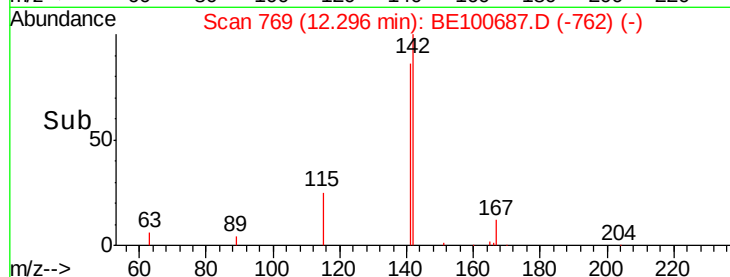
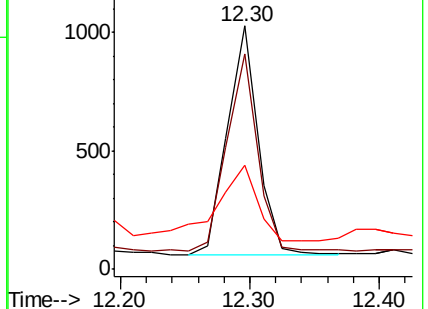
115 42.9 28.3 42.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

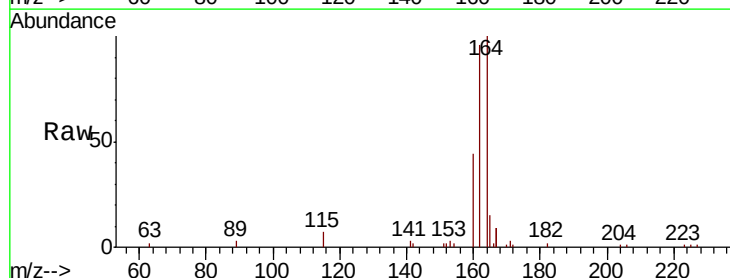
Tgt Ion:164 Resp: 11305

Ion Ratio Lower Upper

164 100

162 95.6 82.0 123.0

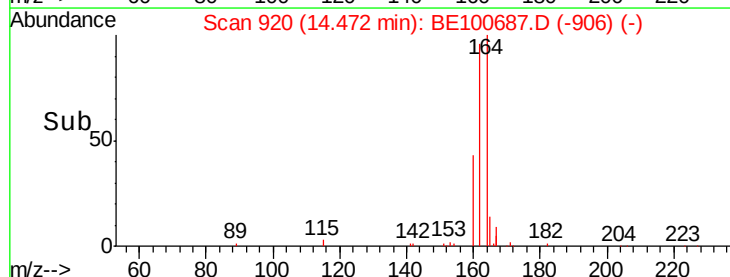
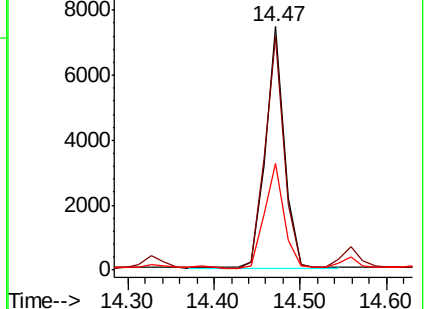
160 43.5 37.5 56.3

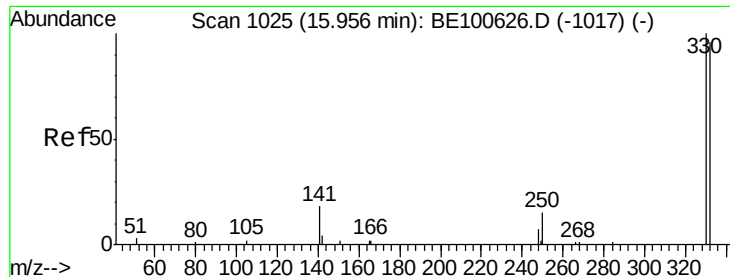


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

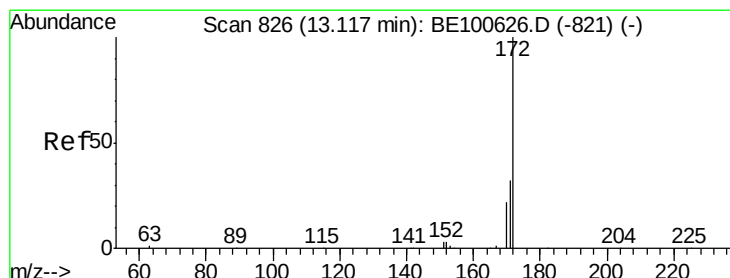
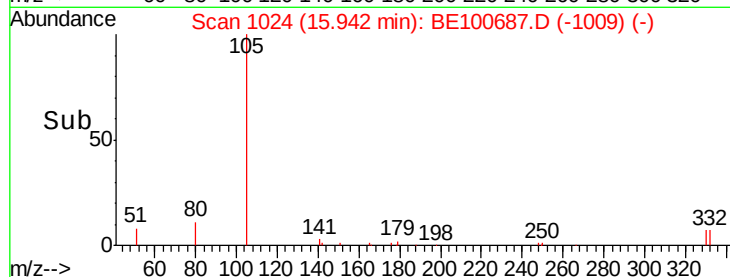
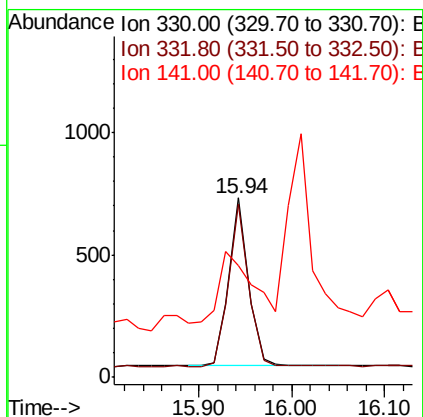
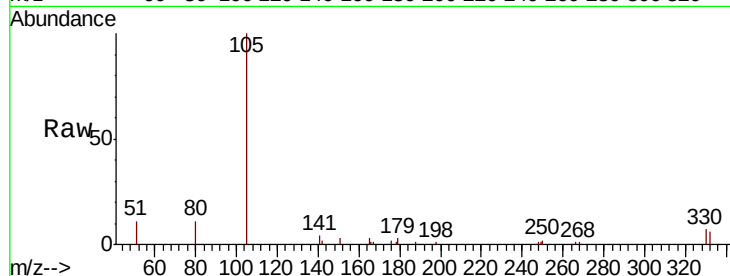




#14
2,4,6-Tribromophenol
Concen: 0.334 ng
RT: 15.94 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

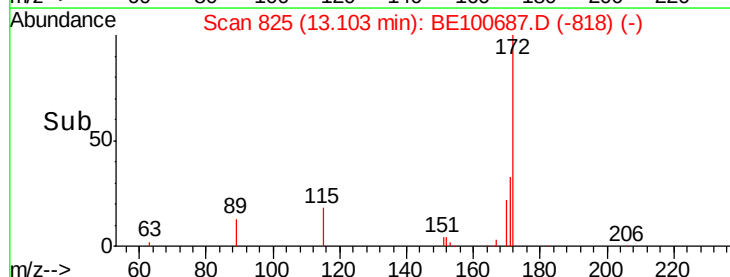
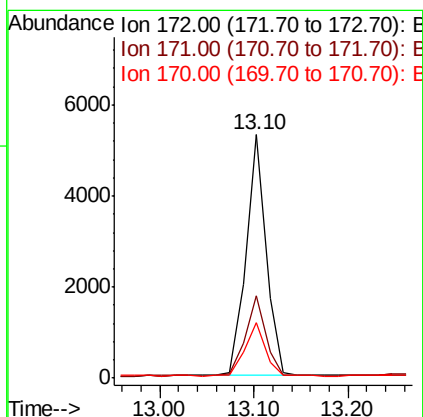
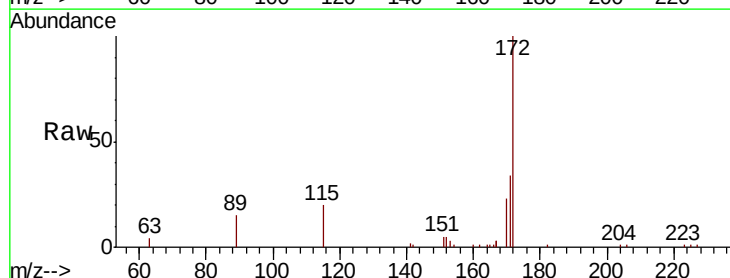
Instrument :
BNA_E
ClientSampled :

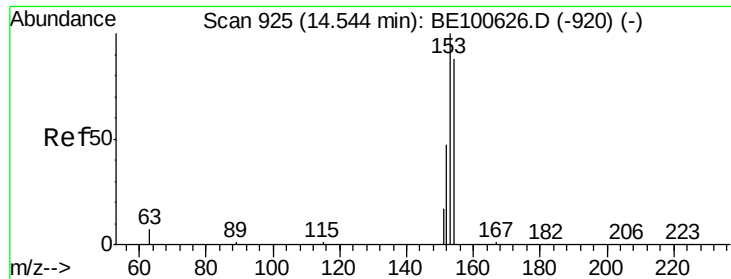
Tot Ion:330 Resp: 998
Ion Ratio Lower Upper
330 100
332 97.1 77.9 116.9
141 80.0 33.0 49.6#



#15
2-Fluorobiphenyl
Concen: 0.193 ng
RT: 13.10 min Scan# 825
Delta R.T. -0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:172 Resp: 7935
Ion Ratio Lower Upper
172 100
171 33.9 26.5 39.7
170 22.6 19.0 28.4

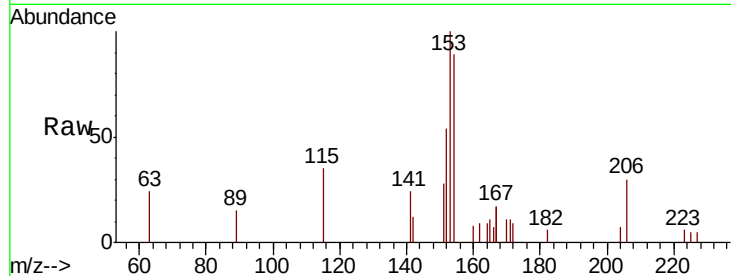




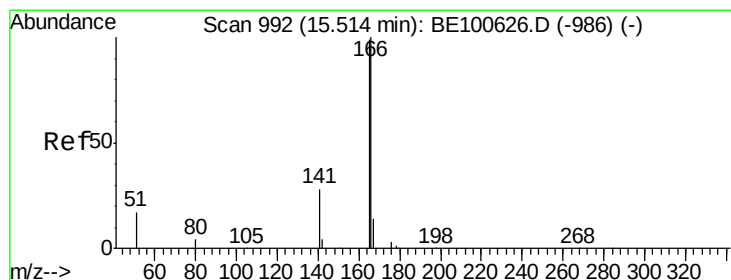
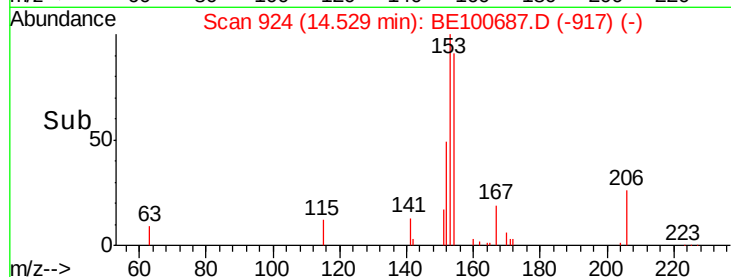
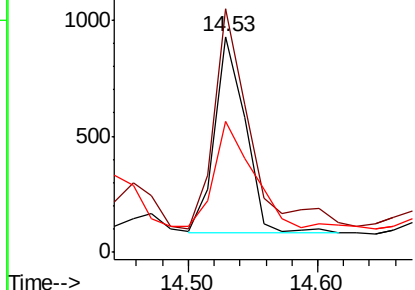
#17
Acenaphthene
Concen: 0.044 ng
RT: 14.53 min Scan# 924
Delta R.T. -0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:154 Resp: 1393
Ion Ratio Lower Upper
154 100
153 130.5 89.4 134.2
152 65.1 44.1 66.1

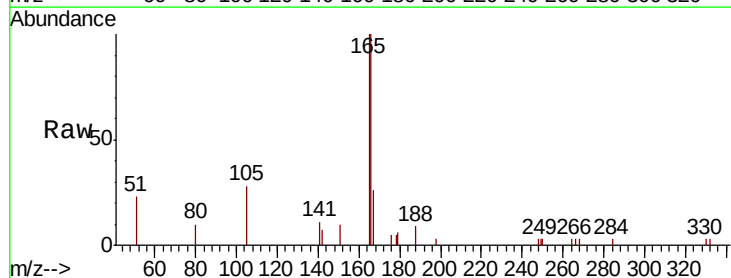


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

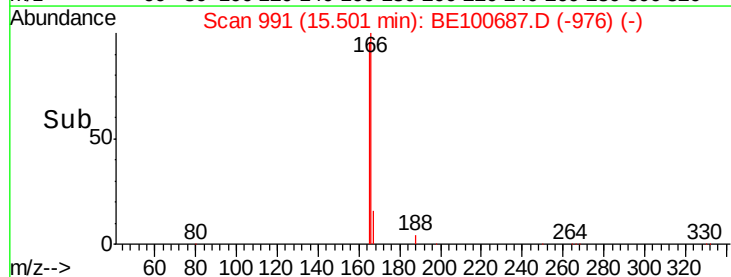
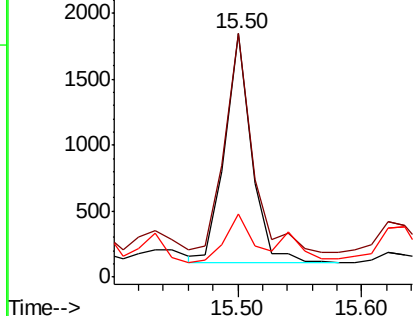


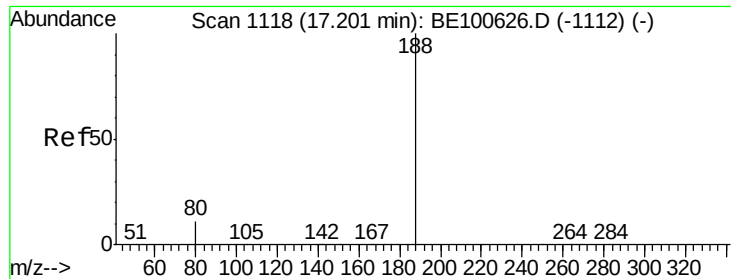
#18
Fluorene
Concen: 0.062 ng
RT: 15.50 min Scan# 991
Delta R.T. -0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:166 Resp: 2604
Ion Ratio Lower Upper
166 100
165 99.2 78.6 117.8
167 22.2 10.9 16.3#



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

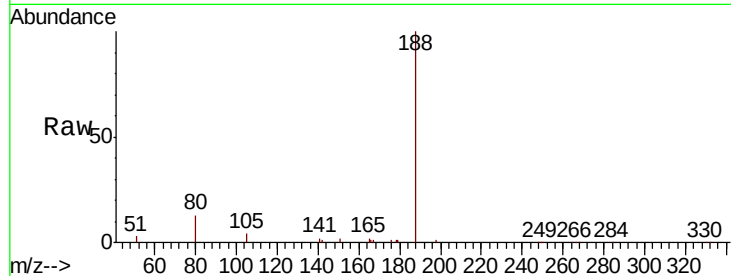
Tot Ion:188 Resp: 27199

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

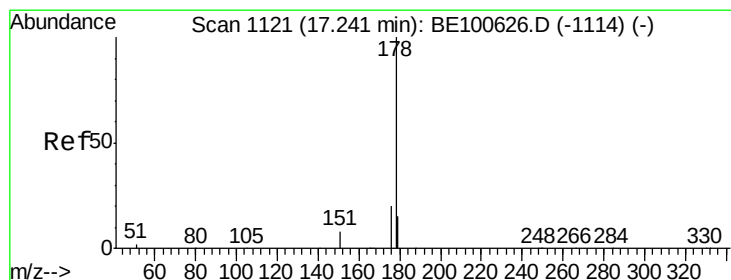
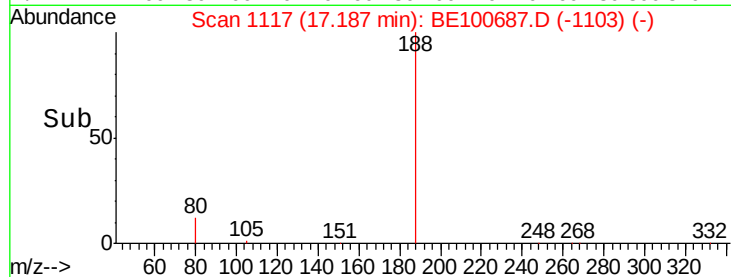
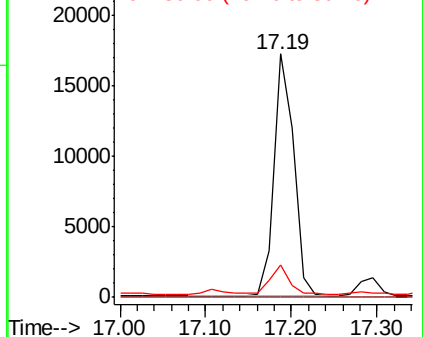
80 13.2 5.4 8.0#



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



#23

Phenanthrene

Concen: 0.571 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

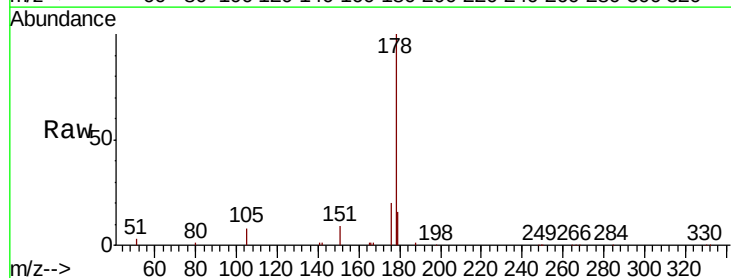
Tgt Ion:178 Resp: 42707

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

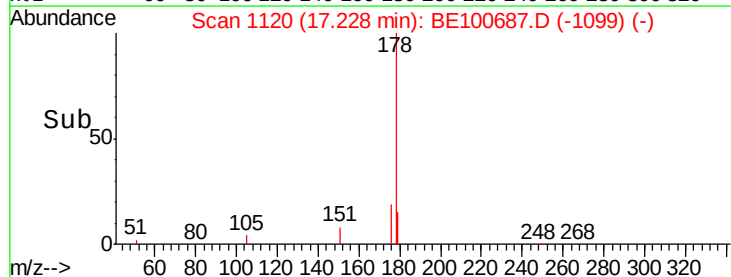
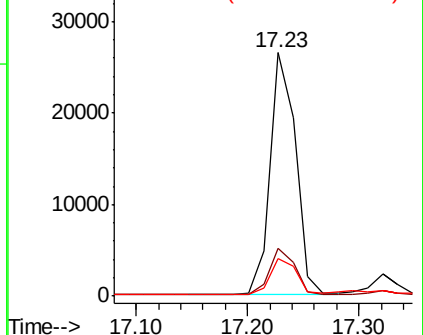
179 15.6 12.1 18.1

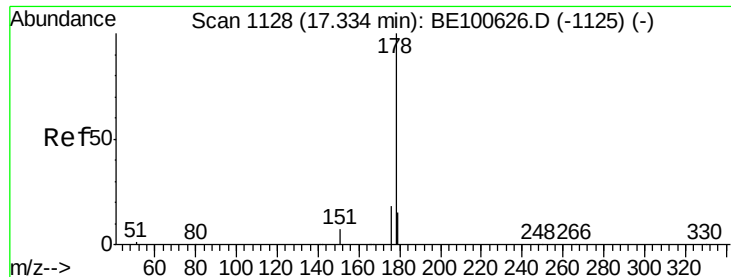


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.043 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

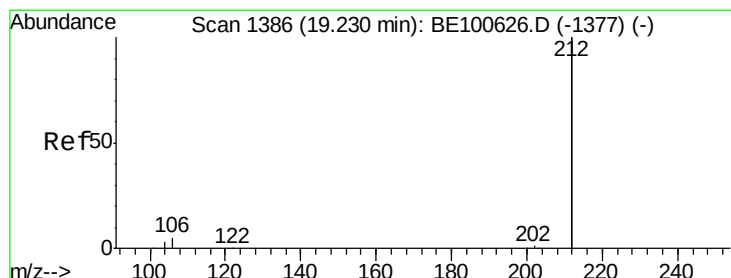
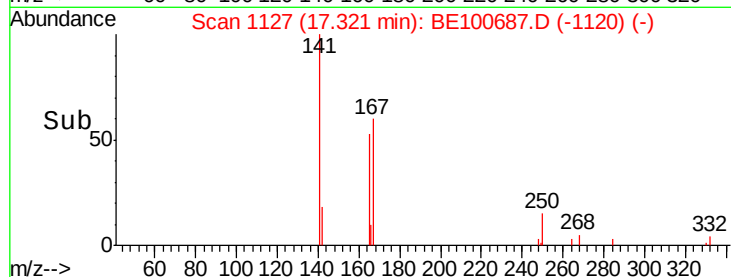
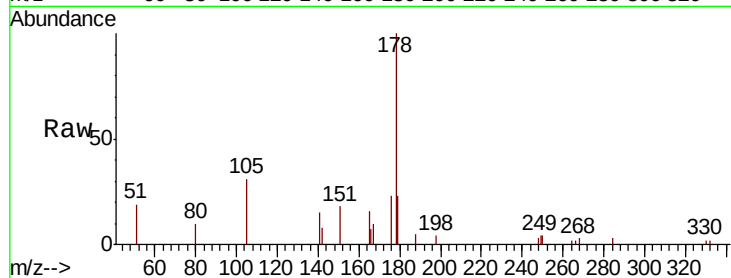
Tot Ion:178 Resp: 2957

Ion Ratio Lower Upper

178 100

176 17.3 15.0 22.4

179 0.0 12.5 18.7#



#25

Fluoranthene-d10

Concen: 0.208 ng

RT: 19.21 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

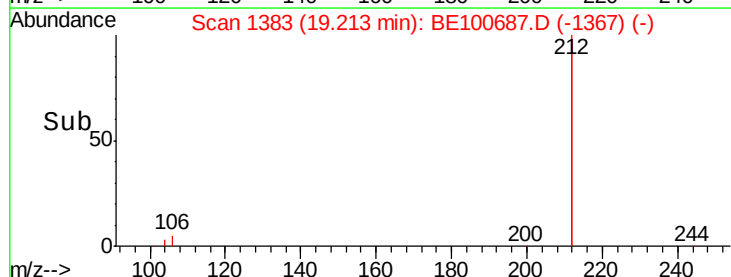
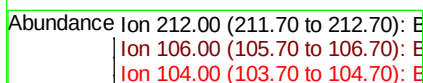
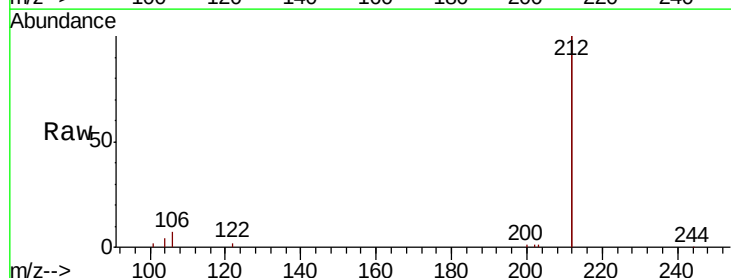
Tgt Ion:212 Resp: 73051

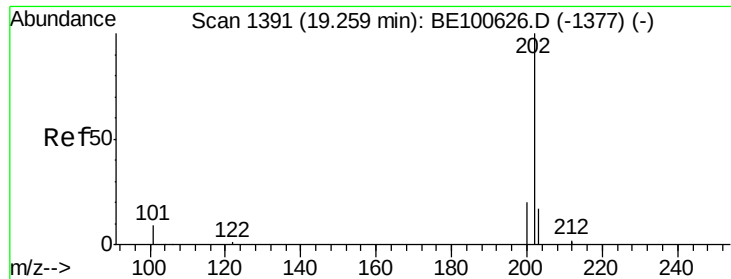
Ion Ratio Lower Upper

212 100

106 3.5 2.3 3.5#

104 1.9 1.3 1.9#

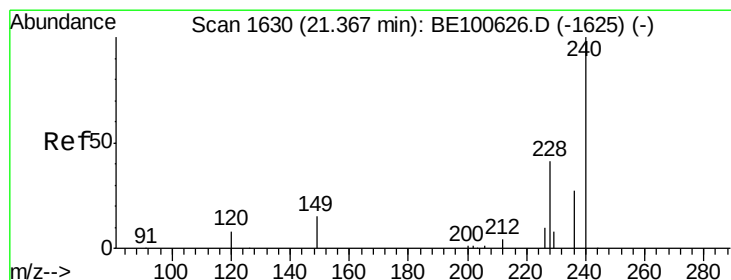
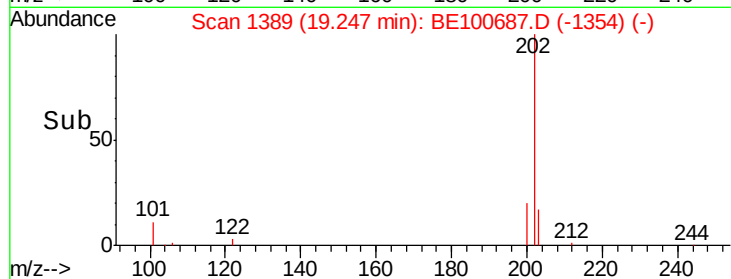
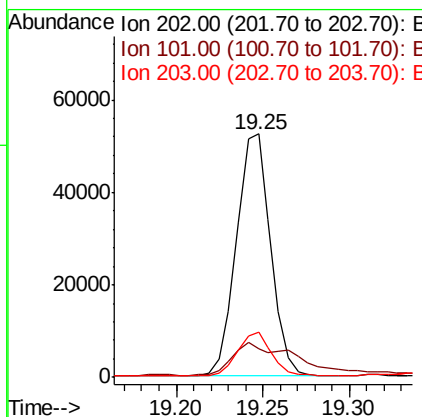
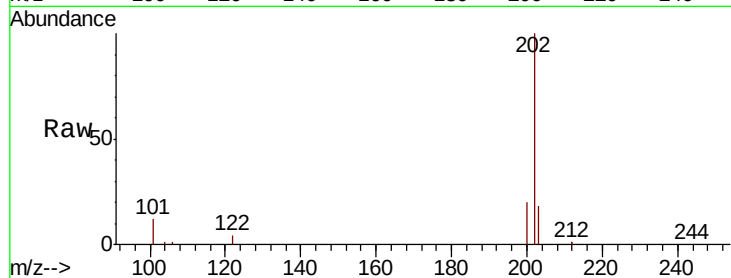




#26
Fluoranthene
Concen: 0.737 ng
RT: 19.25 min Scan# 1389
Delta R.T. 0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

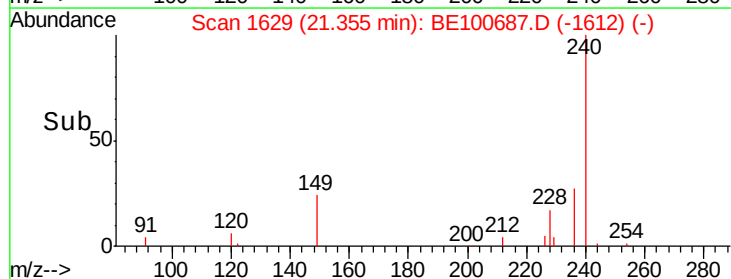
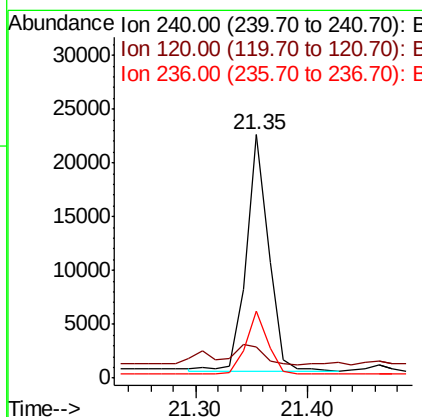
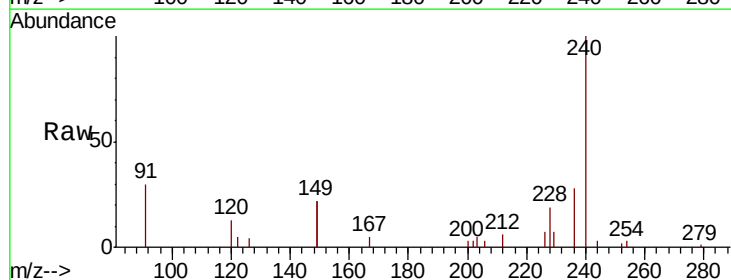
Instrument :
BNA_E
ClientSampleId :

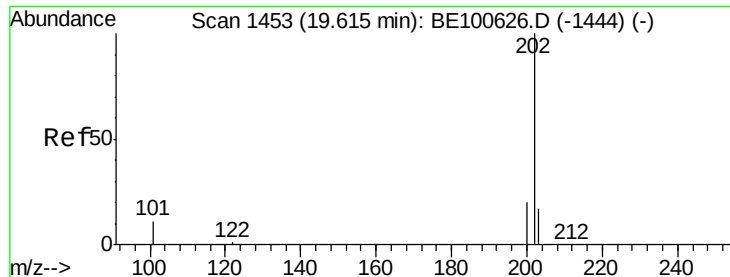
Tot Ion:202 Resp: 72009
Ion Ratio Lower Upper
202 100
101 26.9 8.5 12.7#
203 17.8 13.8 20.8



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.35 min Scan# 1629
Delta R.T. 0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:240 Resp: 30405
Ion Ratio Lower Upper
240 100
120 12.7 7.6 11.4#
236 27.6 22.1 33.1

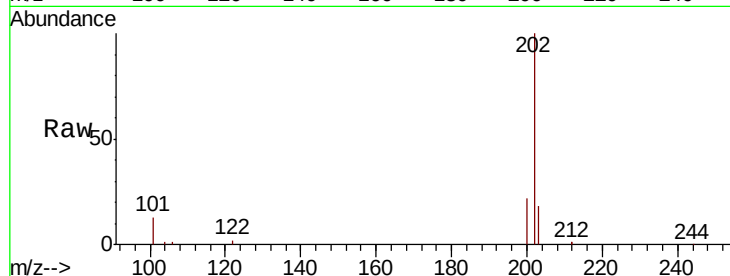




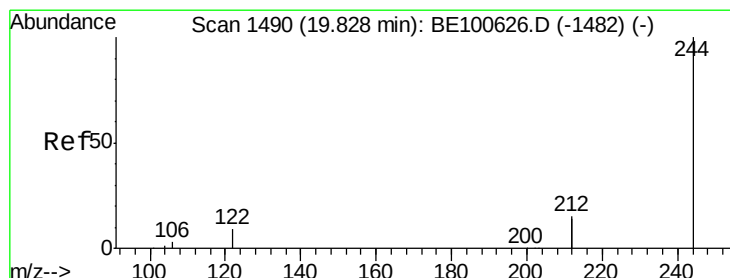
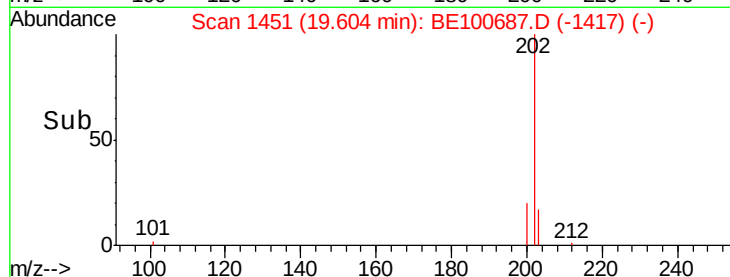
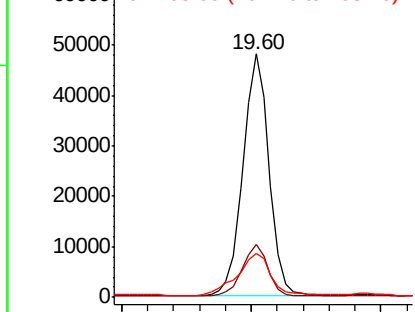
#28
Pvrene
Concen: 0.789 ng
RT: 19.60 min Scan# 1451
Delta R.T. -0.01 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 67061
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 21.9 14.0 21.0#

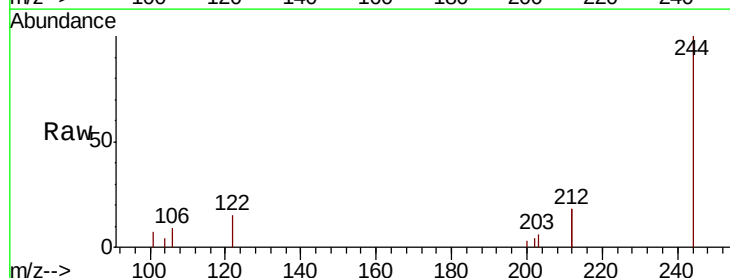


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

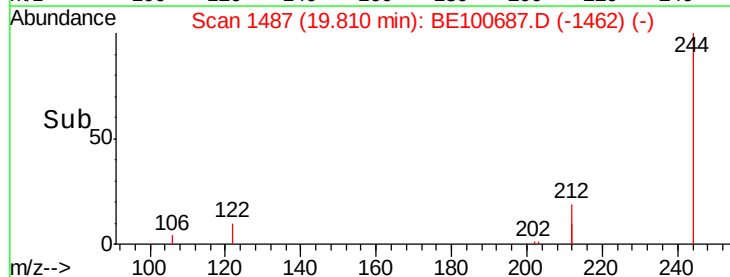
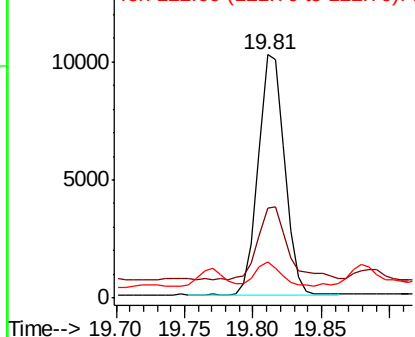


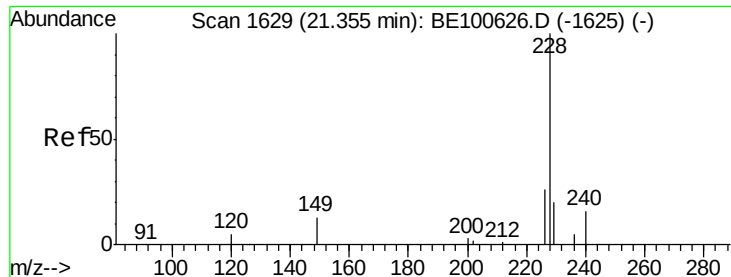
#29
Terphenyl-d14
Concen: 0.202 ng
RT: 19.81 min Scan# 1487
Delta R.T. -0.01 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:244 Resp: 13432
Ion Ratio Lower Upper
244 100
212 36.8 23.7 35.5#
122 14.8 7.9 11.9#



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

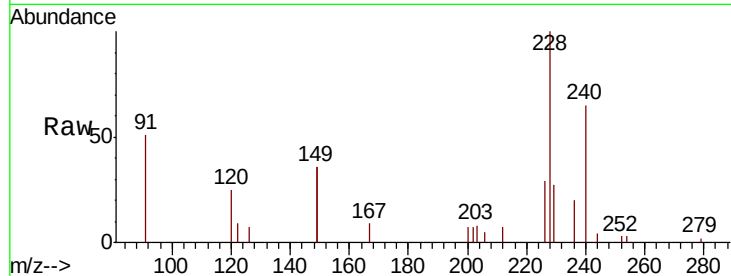




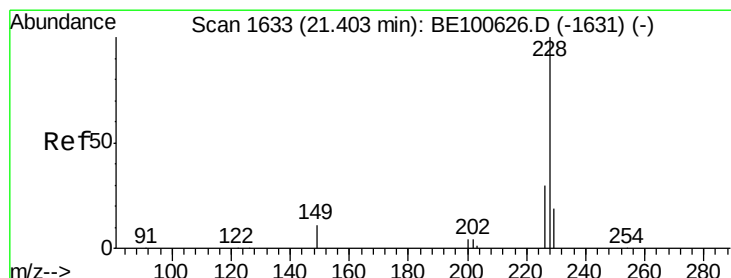
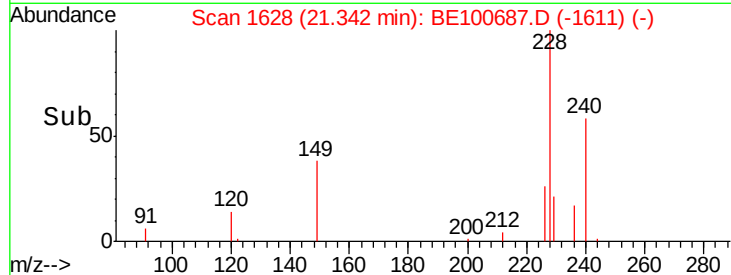
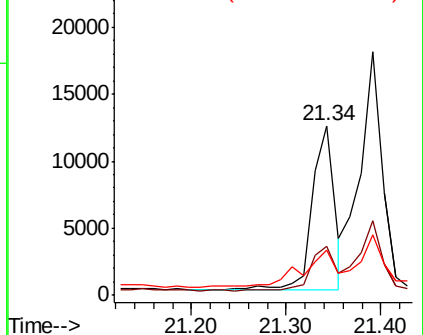
#30
Benzo(a)anthracene
Concen: 0.198 ng
RT: 21.34 min Scan# 1628
Delta R.T. 0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Instrument :
BNA_E
ClientSampleId :

Tot Ion:228 Resp: 19609
Ion Ratio Lower Upper
228 100
226 28.5 21.4 32.0
229 26.5 16.0 24.0#

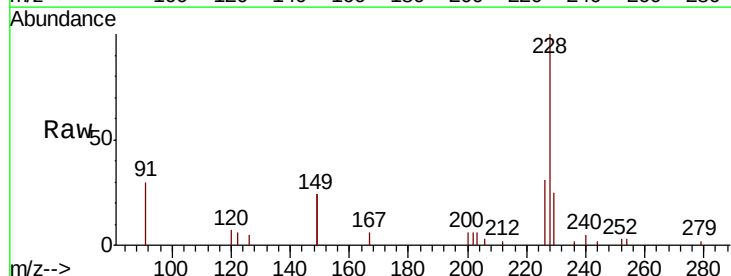


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

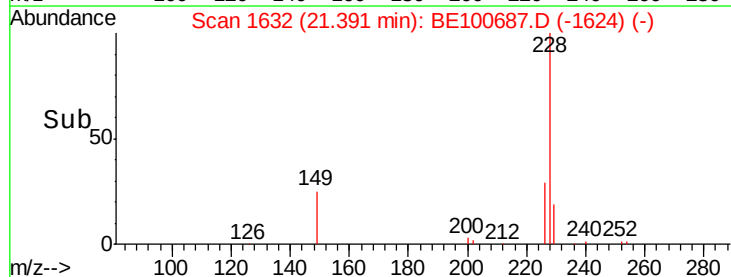
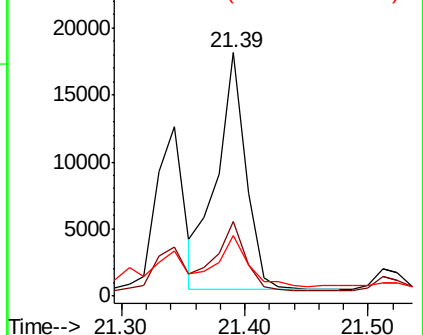


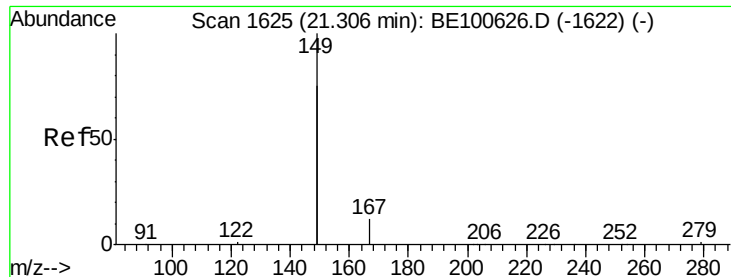
#31
Chrysene
Concen: 0.291 ng
RT: 21.39 min Scan# 1632
Delta R.T. 0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:228 Resp: 28888
Ion Ratio Lower Upper
228 100
226 30.7 24.6 37.0
229 24.8 15.8 23.8#



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





#32

Bis(2-ethylhexyl)phthalate

Concen: 1.442 ng

RT: 21.28 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

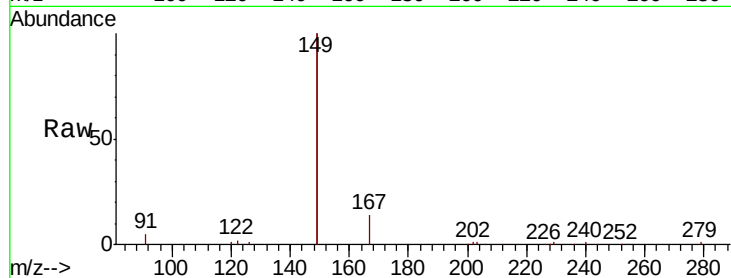
Tot Ion:149 Resp: 299222

Ion Ratio Lower Upper

149 100

167 6.8 5.5 8.3

279 1.1 0.9 1.3

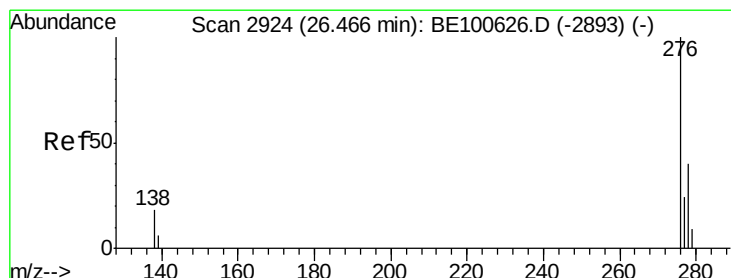
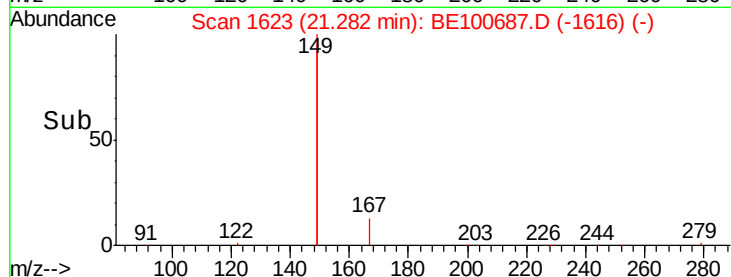
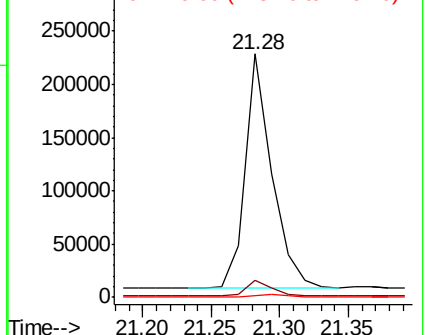


Abundance

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: 0.051 ng

RT: 26.43 min Scan# 2913

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

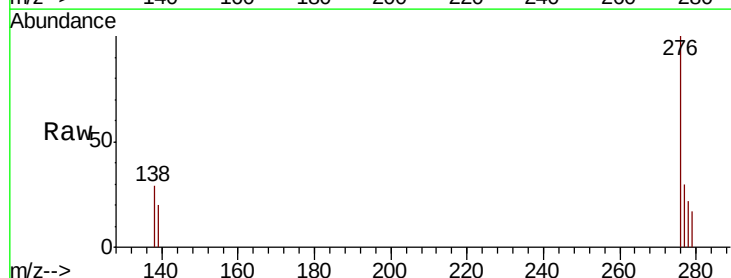
Tgt Ion:276 Resp: 6177

Ion Ratio Lower Upper

276 100

138 16.4 15.3 22.9

277 23.3 19.4 29.2

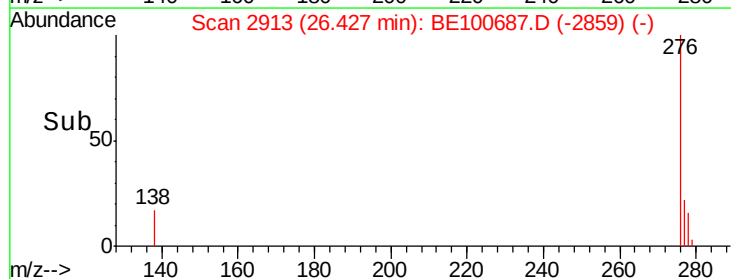
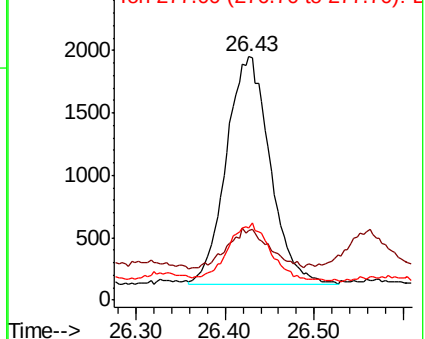


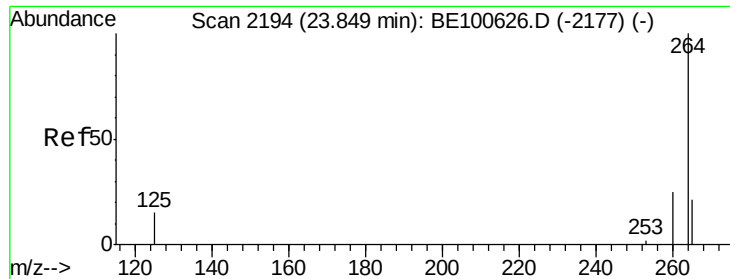
Abundance

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

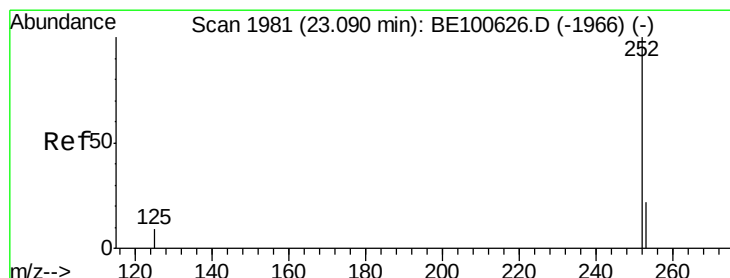
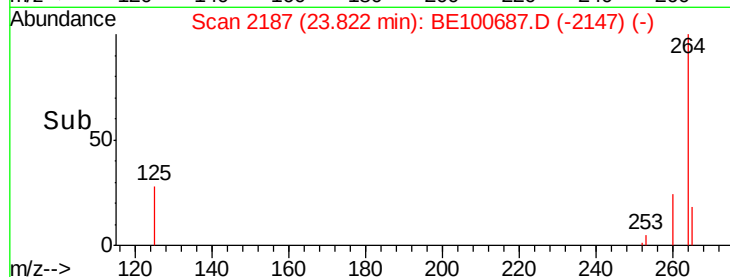
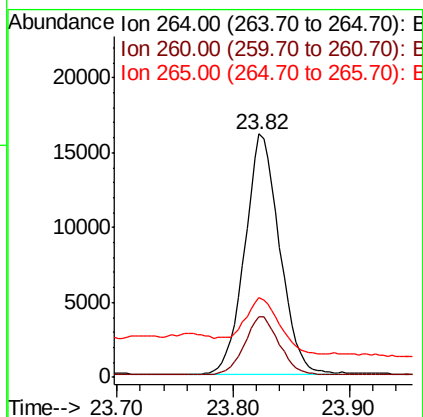
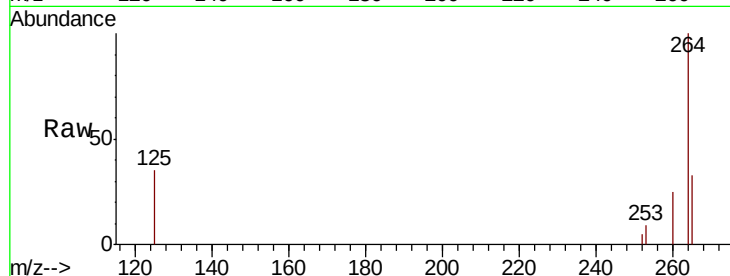




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

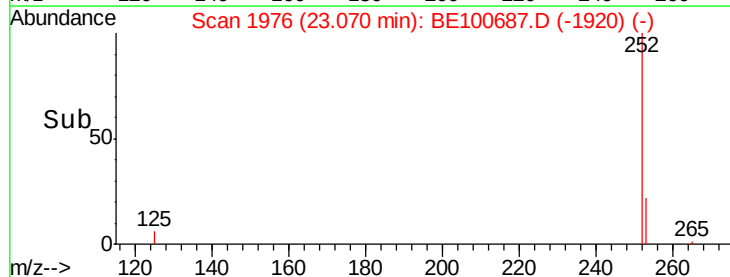
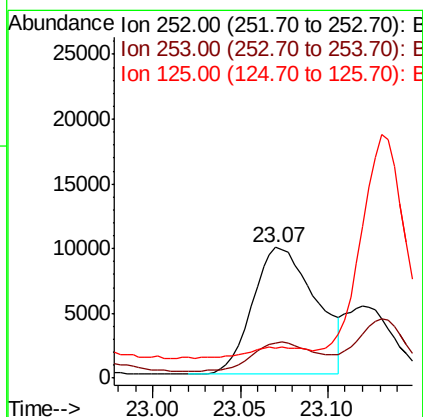
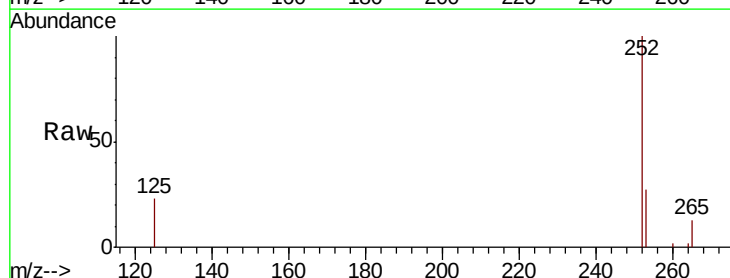
Instrument :
BNA_E
ClientSampleId :

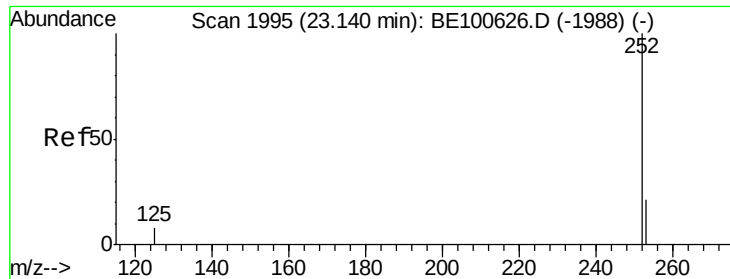
Tot Ion:264 Resp: 33433
Ion Ratio Lower Upper
264 100
260 24.6 19.4 29.2
265 32.6 21.7 32.5#



#35
Benzo(b)fluoranthene
Concen: 0.252 ng
RT: 23.07 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:252 Resp: 24600
Ion Ratio Lower Upper
252 100
253 26.8 18.4 27.6
125 23.2 7.6 11.4#

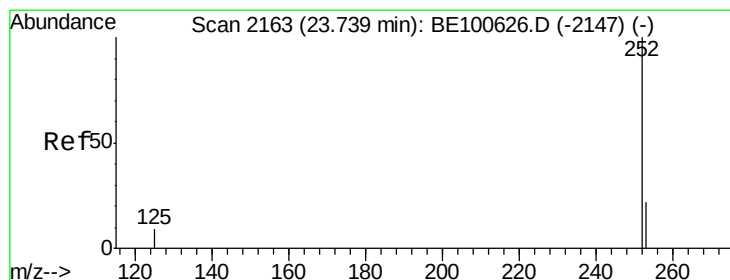
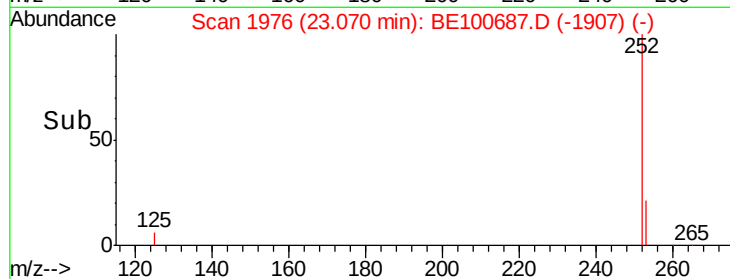
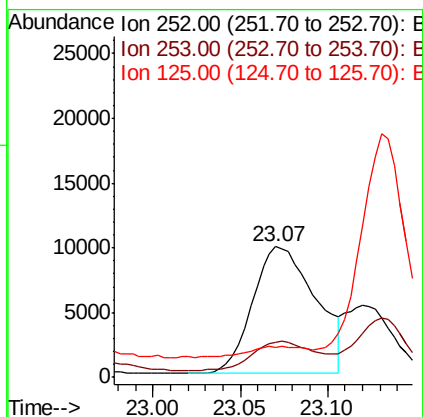
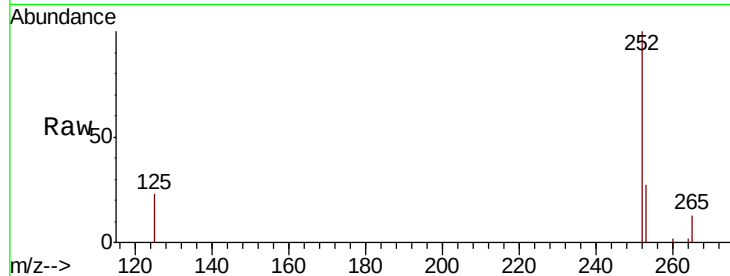




#36
Benzo(k)fluoranthene
Concen: 0.245 ng
RT: 23.07 min Scan# 1976
Delta R.T. -0.06 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

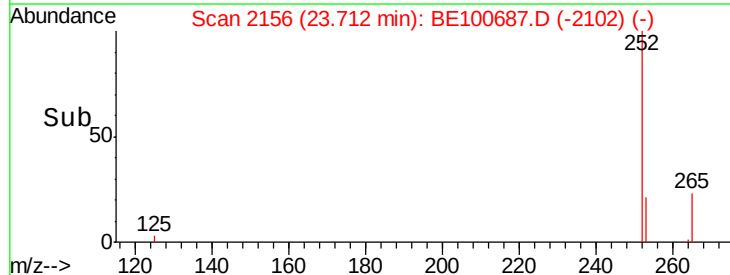
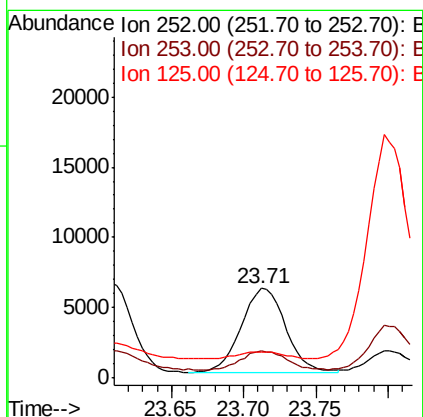
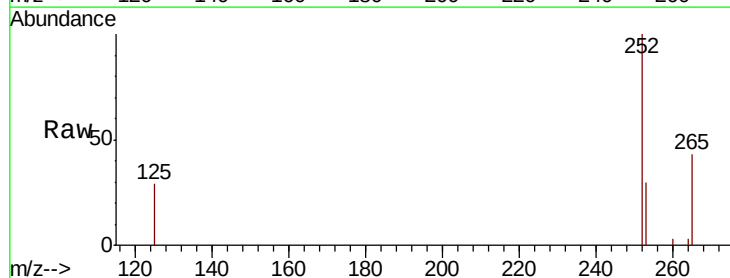
Instrument :
BNA_E
ClientSampleId :

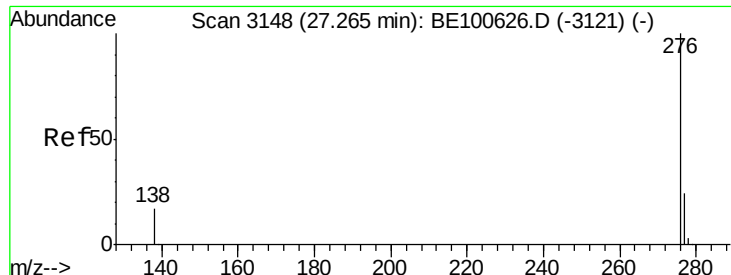
Tot Ion:252 Resp: 24600
Ion Ratio Lower Upper
252 100
253 26.8 18.4 27.6
125 23.2 11.6 17.4#



#37
Benzo(a)pyrene
Concen: 0.138 ng
RT: 23.71 min Scan# 2156
Delta R.T. -0.01 min
Lab File: BE100687.D
Acq: 28 Oct 2019 23:24

Tgt Ion:252 Resp: 12486
Ion Ratio Lower Upper
252 100
253 30.2 18.4 27.6#
125 29.3 8.2 12.4#





#39

Benzo(a,h,i)perylene

Concen: 0.077 ng

RT: 27.23 min Scan# 3137

Delta R.T. -0.01 min

Lab File: BE100687.D

Acq: 28 Oct 2019 23:24

Instrument :

BNA_E

ClientSampleId :

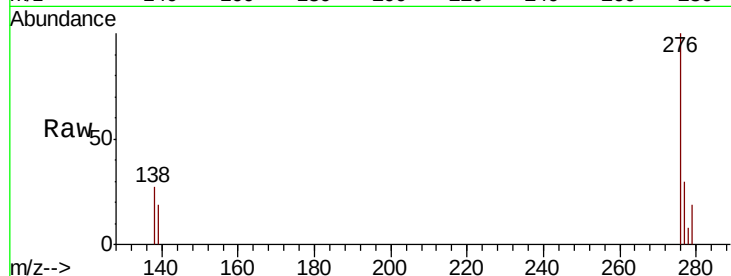
Tot Ion: 276 Resp: 7288

Ion Ratio Lower Upper

276 100

277 29.9 19.4 29.0#

138 27.1 13.6 20.4#



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

