

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100348.D
 Acq On : 4 Jul 2019 2:59
 Operator : JU/SJ
 Sample : K3558-05 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 05 01:12:56 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	621	0.40	ng	0.00
7) Naphthalene-d8	10.43	136	2424	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	2063	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5646	0.40	ng	0.00
27) Chrysene-d12	21.25	240	7993	0.40	ng	0.00
34) Perylene-d12	23.67	264	10042	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.21	112	69	0.04	ng	0.00
5) Phenol-d6	6.85	99	43	0.02	ng	0.00
8) Nitrobenzene-d5	8.84	82	51	0.02	ng	0.01
11) 2-Methylnaphthalene-d10	12.04	152	150	0.03	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	44	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	222	0.03	ng	-0.01
25) Fluoranthene-d10	19.09	212	2794	0.03	ng	0.00
29) Terphenyl-d14	19.69	244	1416	0.09	ng	-0.01

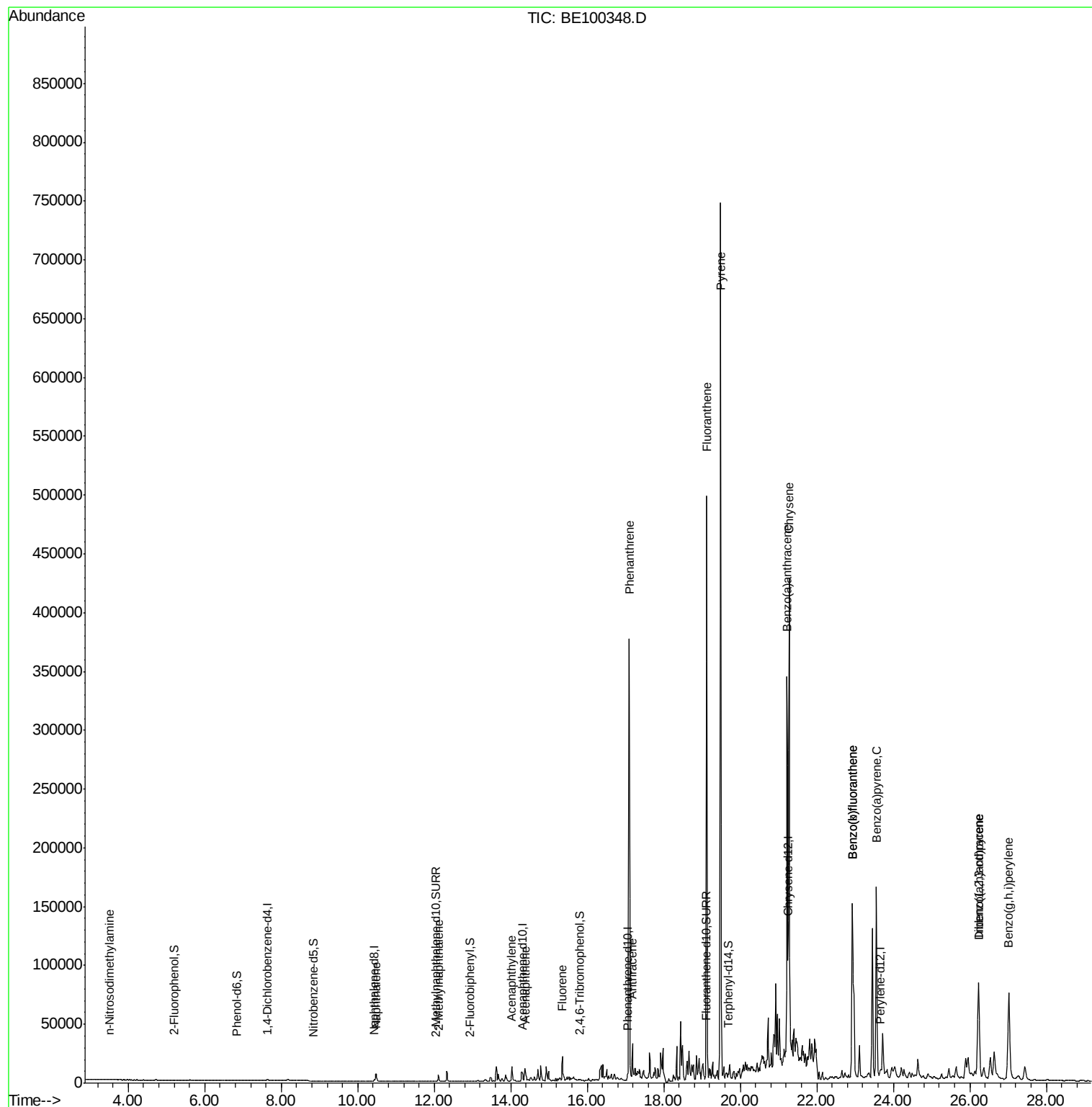
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.51	42	12	0.027	ng	# 28
9) Naphthalene	10.48	128	15689	0.587	ng	99
12) 2-Methylnaphthalene	12.11	142	4472	0.953	ng	100
16) Acenaphthylene	14.02	152	17185	1.736	ng	97
17) Acenaphthene	14.37	154	5560	0.991	ng	96
18) Fluorene	15.35	166	16324	1.968	ng	# 92
23) Phenanthrene	17.09	178	372966	27.255	ng	99
24) Anthracene	17.19	178	30355	2.463	ng	100
26) Fluoranthene	19.12	202	465395	21.352	ng	97
28) Pylene	19.49	202	697395	32.955	ng	96
30) Benzo(a)anthracene	21.22	228	316981	12.061	ng	97
31) Chrysene	21.28	228	382335	14.488	ng	97
33) Indeno(1,2,3-cd)pyrene	26.23	276	161577	4.629	ng	# 97
35) Benzo(b)fluoranthene	22.93	252	302183	11.099	ng	# 95
36) Benzo(k)fluoranthene	22.93	252	302183	9.943	ng	# 98
37) Benzo(a)pyrene	23.56	252	255921	9.379	ng	# 92
38) Dibenzo(a,h)anthracene	26.24	278	47272	1.659	ng	92
39) Benzo(a,h,i)perylene	27.02	276	191854	6.553	ng	98

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

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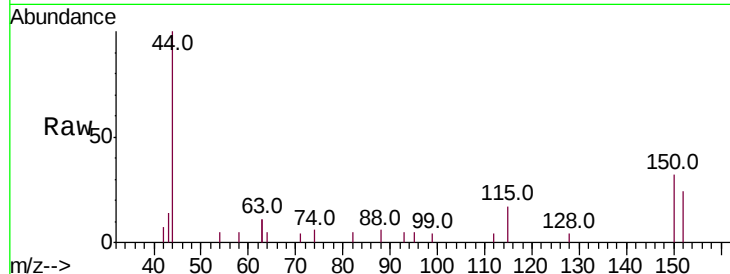




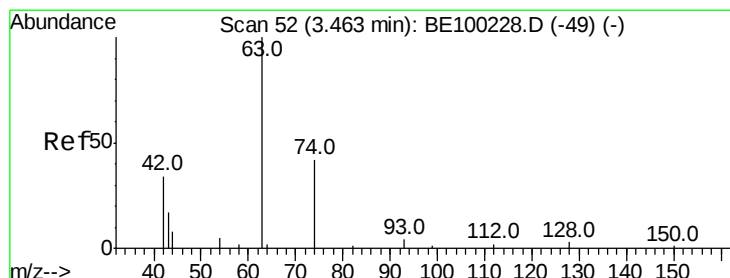
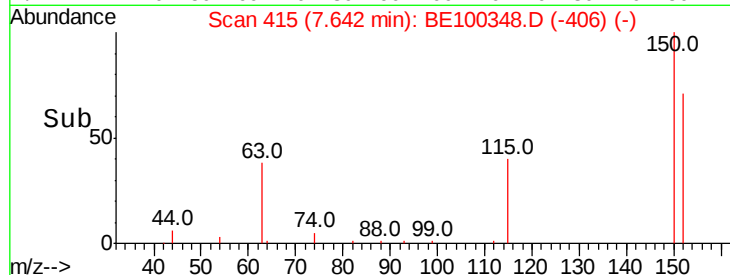
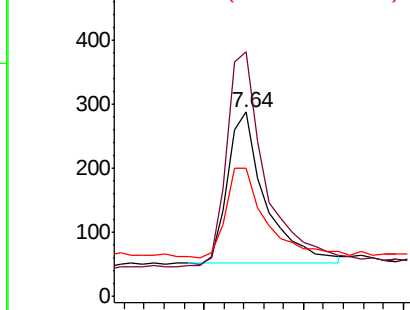
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.64 min Scan# 415
 Delta R.T. -0.00 min
 Lab File: BE100348.D
 Acq: 4 Jul 2019 2:59

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:152 Resp: 621
 Ion Ratio Lower Upper
 152 100
 150 132.6 114.5 171.7
 115 69.4 57.1 85.7

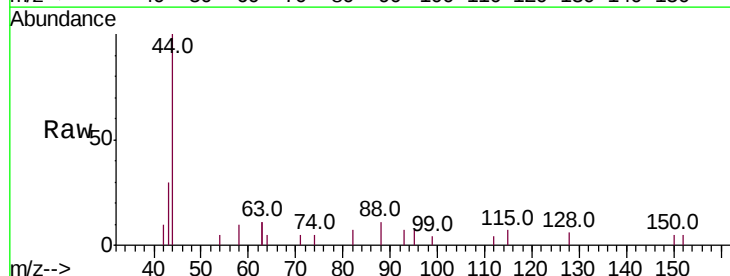


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

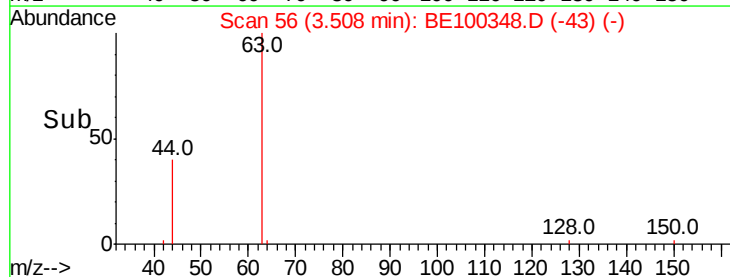
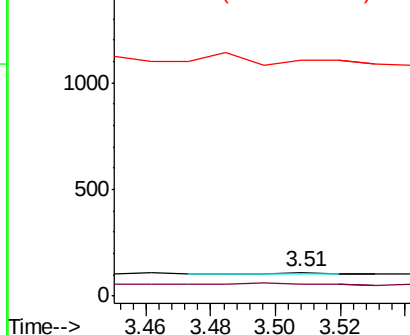


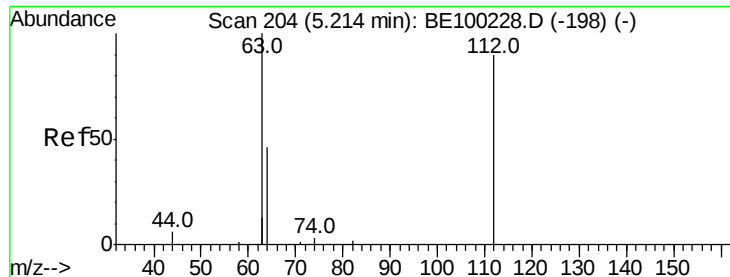
#3
 n-Nitrosodimethylamine
 Concen: 0.027 ng
 RT: 3.51 min Scan# 56
 Delta R.T. 0.04 min
 Lab File: BE100348.D
 Acq: 4 Jul 2019 2:59

Tgt Ion: 42 Resp: 12
 Ion Ratio Lower Upper
 42 100
 74 66.7 130.6 196.0#
 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: 0.044 ng

RT: 5.21 min Scan# 204

Delta R.T. -0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

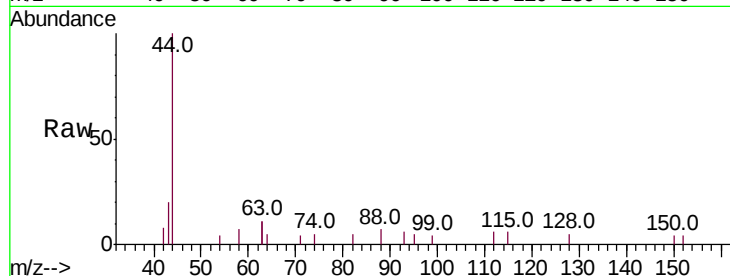
Tot Ion:112 Resp: 69

Ion Ratio Lower Upper

112 100

64 69.6 39.4 59.0#

63 82.6 104.5 156.7#



Abundance Ion 112.00 (111.70 to 112.70): BE1

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1

300

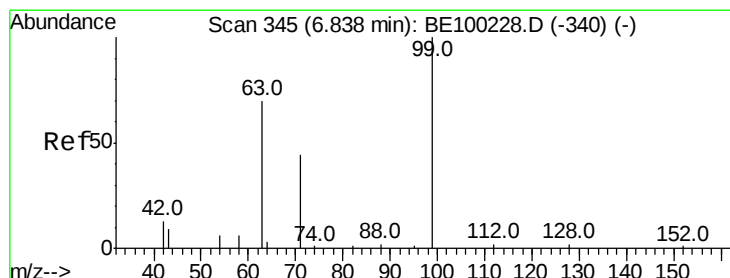
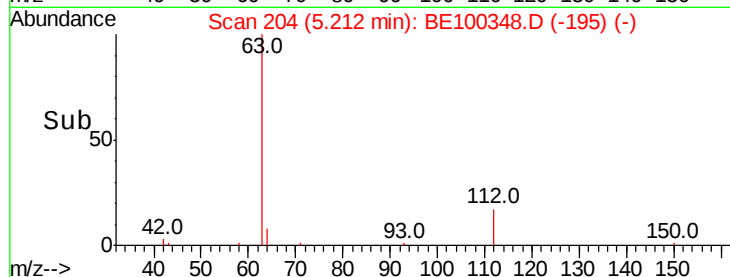
200

100

0

5.10 5.20 5.30

Time-->



#5

Phenol-d6

Concen: 0.021 ng

RT: 6.85 min Scan# 346

Delta R.T. 0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

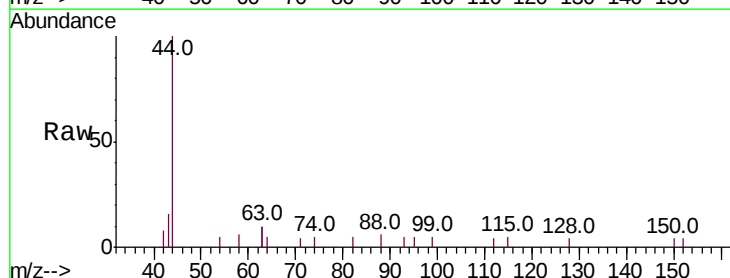
Tgt Ion: 99 Resp: 43

Ion Ratio Lower Upper

99 100

42 0.0 11.2 16.8#

71 55.8 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

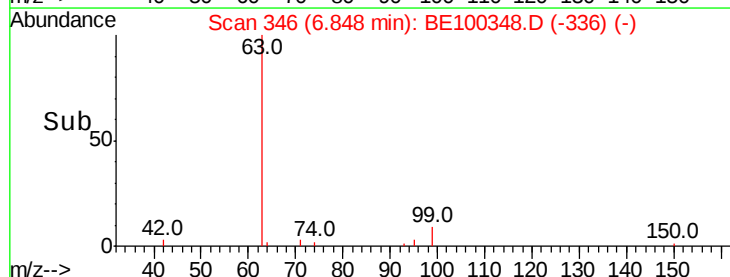
100

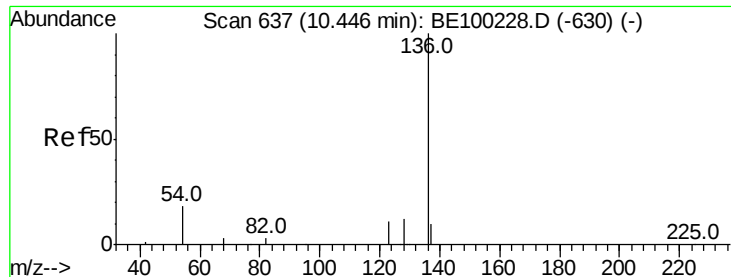
50

0

6.75 6.80 6.85 6.90

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 2424

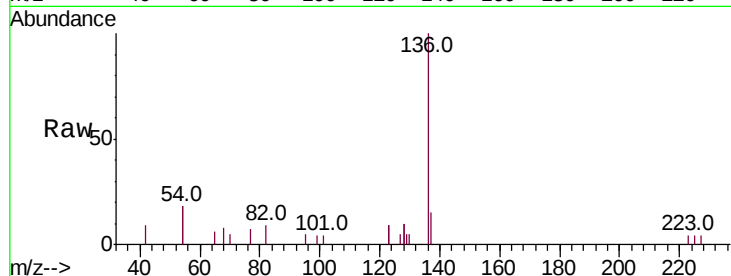
Ion Ratio Lower Upper

136 100

137 14.7 11.8 17.8

54 35.2 27.7 41.5

68 8.3 6.8 10.2

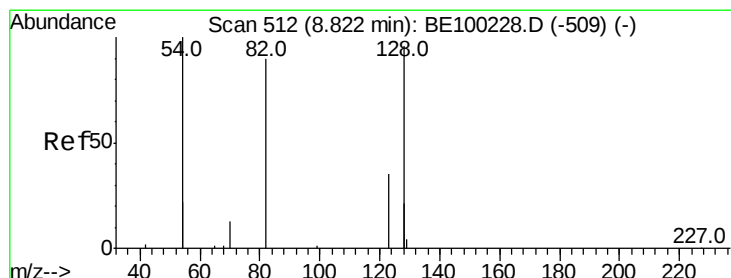
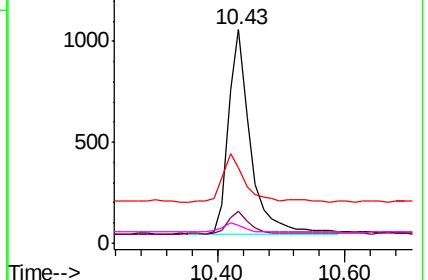
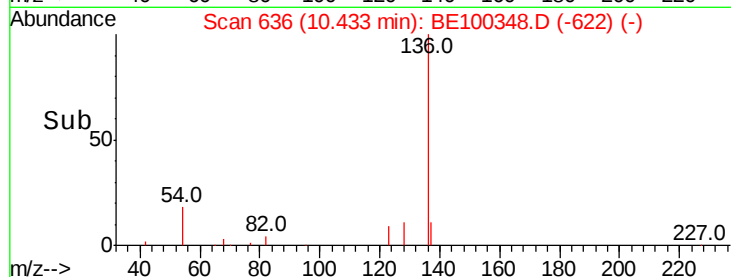


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.021 ng

RT: 8.84 min Scan# 513

Delta R.T. 0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

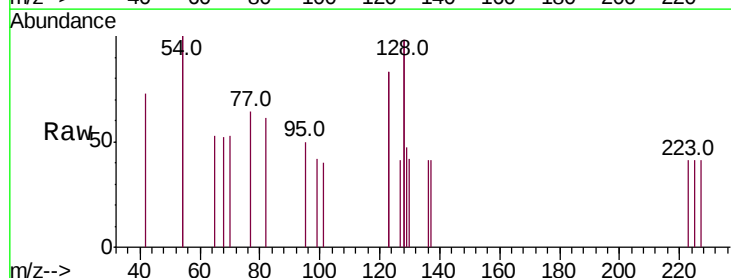
Tgt Ion: 82 Resp: 51

Ion Ratio Lower Upper

82 100

128 320.6 140.9 211.3#

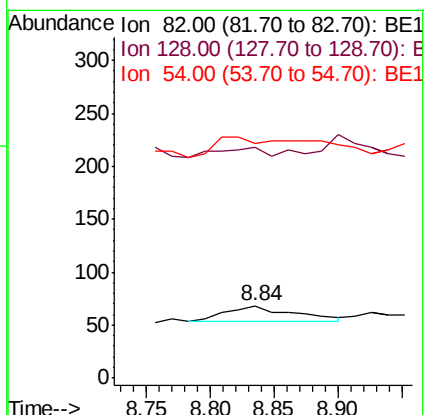
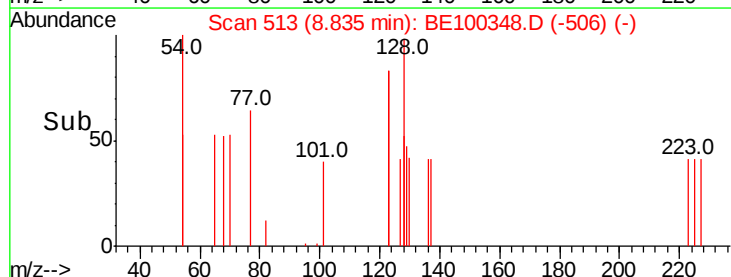
54 326.5 146.2 219.2#

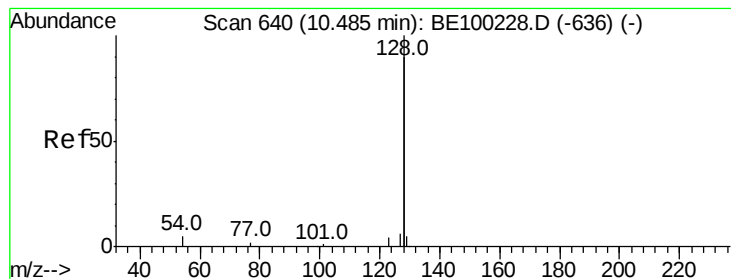


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.587 ng

RT: 10.48 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

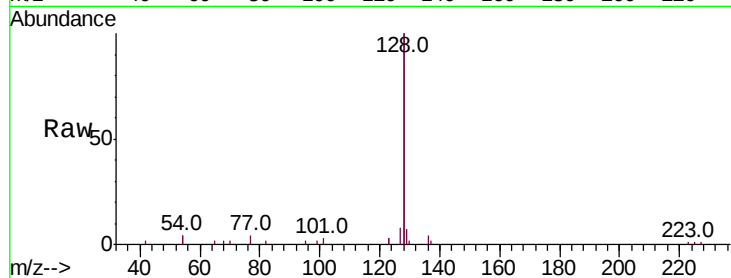
Tot Ion:128 Resp: 15689

Ion Ratio Lower Upper

128 100

129 3.5 3.0 4.6

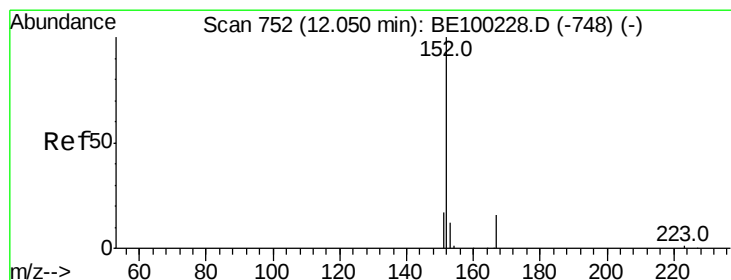
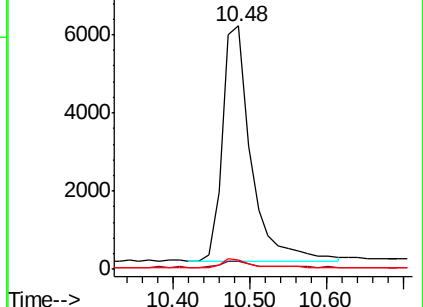
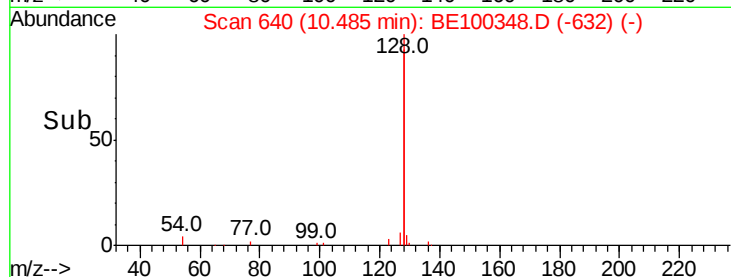
127 4.0 3.5 5.3



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: 0.033 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.01 min

Lab File: BE100348.D

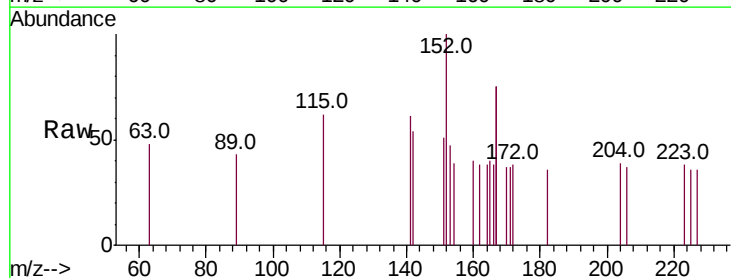
Acq: 4 Jul 2019 2:59

Tgt Ion:152 Resp: 150

Ion Ratio Lower Upper

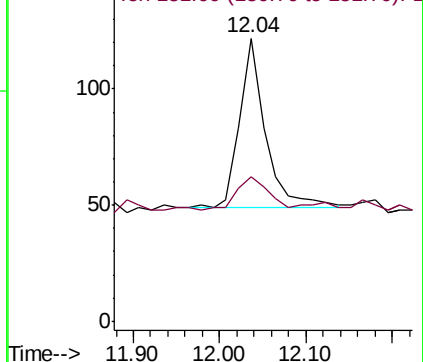
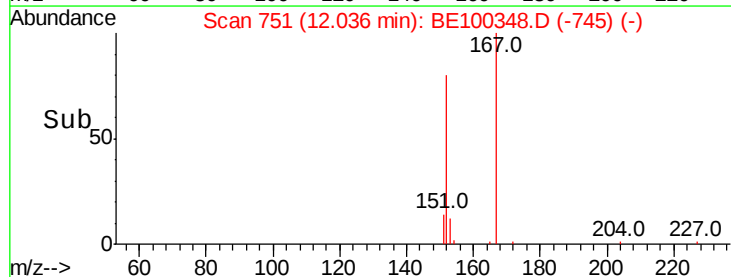
152 100

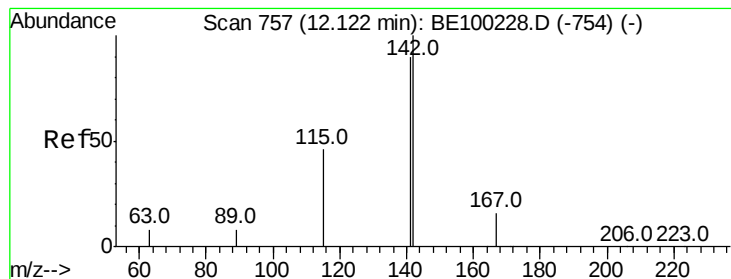
151 24.7 15.1 22.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.953 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

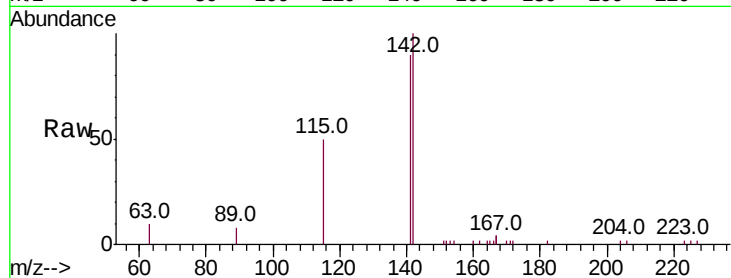
Tot Ion:142 Resp: 4472

Ion Ratio Lower Upper

142 100

141 90.2 72.4 108.6

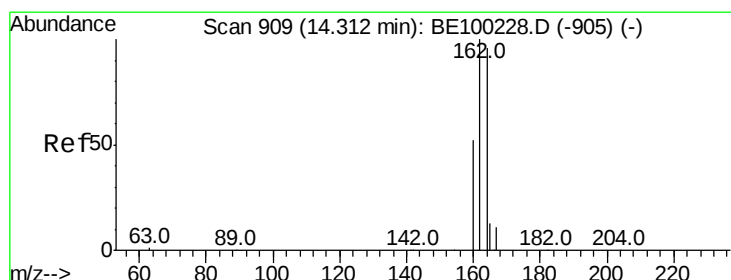
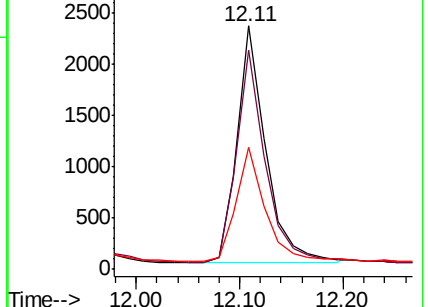
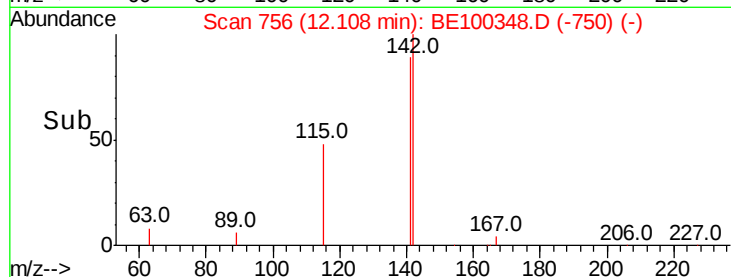
115 50.0 40.4 60.6



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: 14.31 min Scan# 909

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

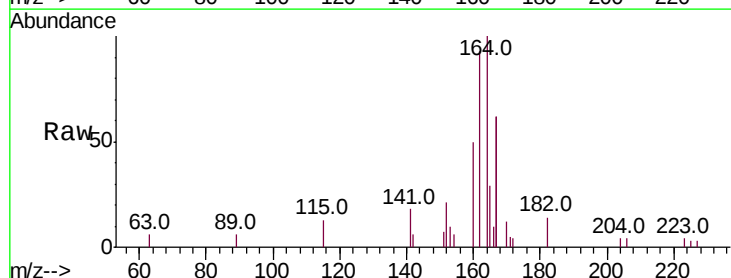
Tgt Ion:164 Resp: 2063

Ion Ratio Lower Upper

164 100

162 93.0 83.4 125.0

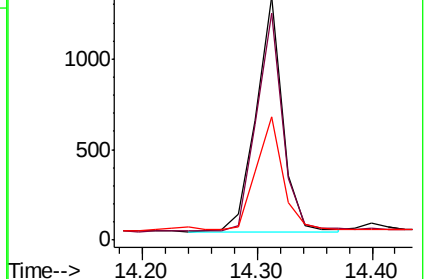
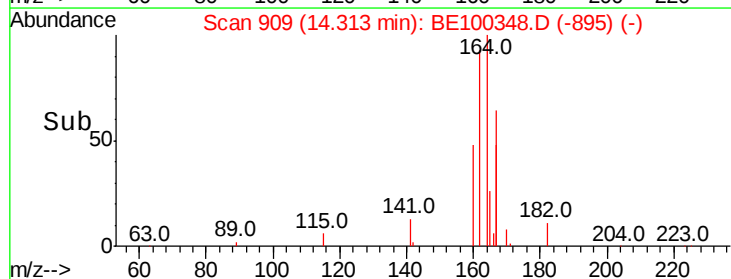
160 50.4 45.0 67.6

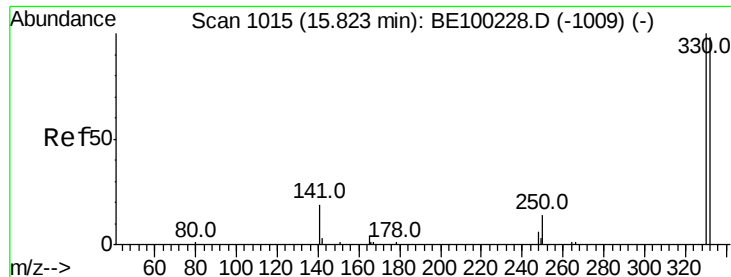


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

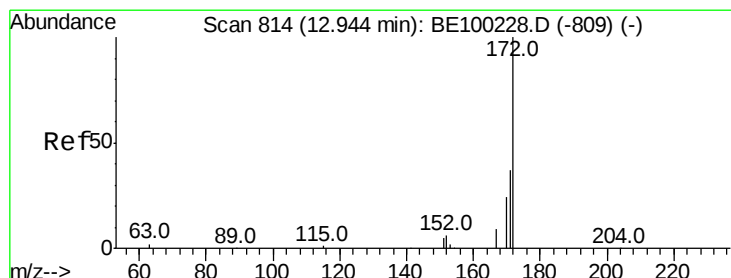
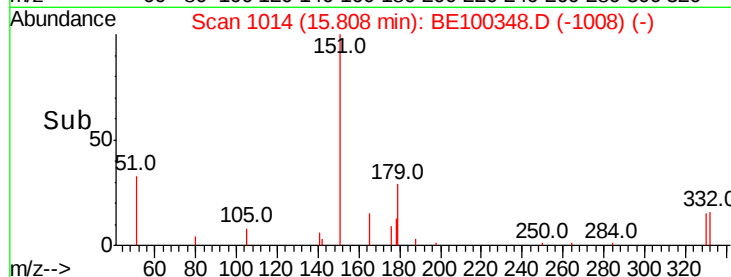
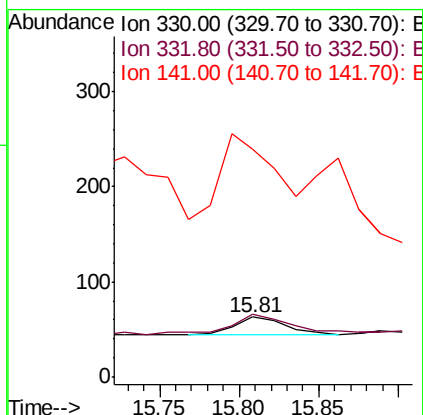
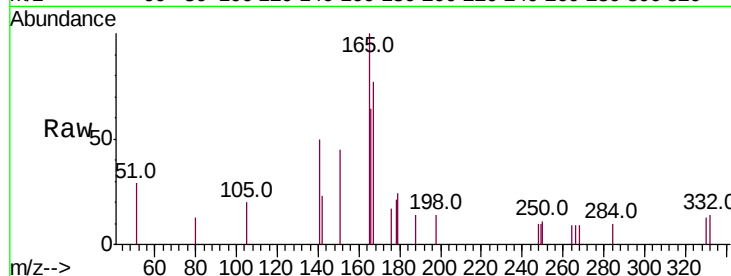




#14
 2,4,6-Tribromophenol
 Concen: 0.030 ng
 RT: 15.81 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BE100348.D
 Acq: 4 Jul 2019 2:59

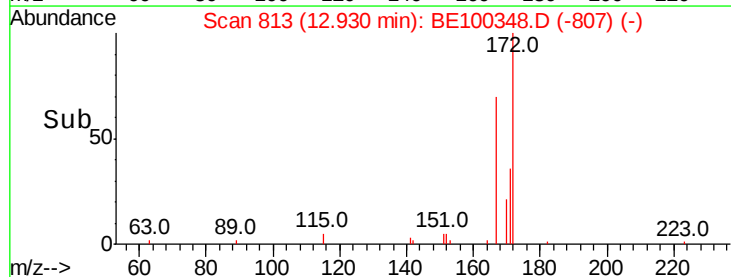
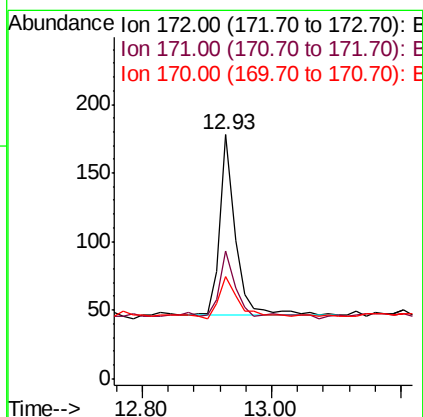
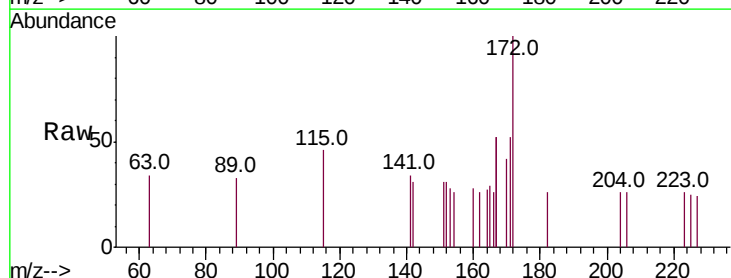
Instrument :
 BNA_E
 ClientSampleId :

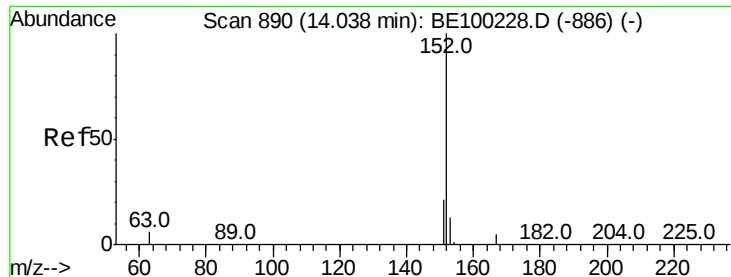
Tot Ion:330 Resp: 44
 Ion Ratio Lower Upper
 330 100
 332 88.6 77.0 115.4
 141 477.3 22.0 33.0#



#15
 2-Fluorobiphenyl
 Concen: 0.028 ng
 RT: 12.93 min Scan# 813
 Delta R.T. -0.01 min
 Lab File: BE100348.D
 Acq: 4 Jul 2019 2:59

Tgt Ion:172 Resp: 222
 Ion Ratio Lower Upper
 172 100
 171 52.2 31.9 47.9#
 170 41.6 22.2 33.2#

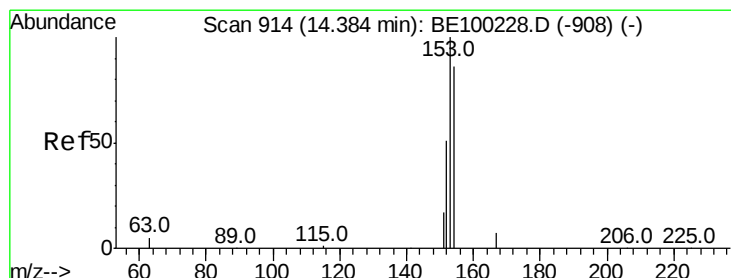
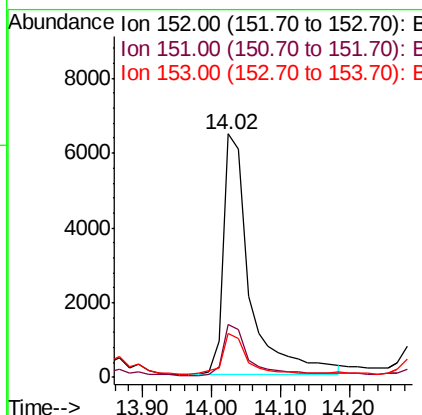
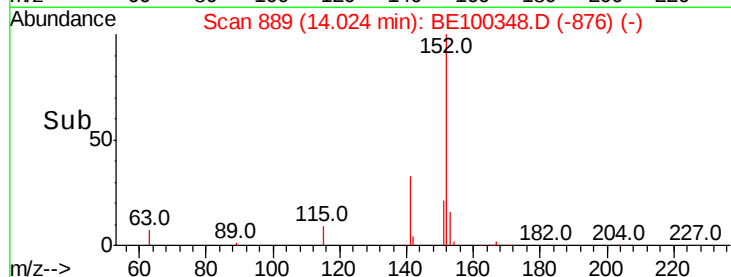
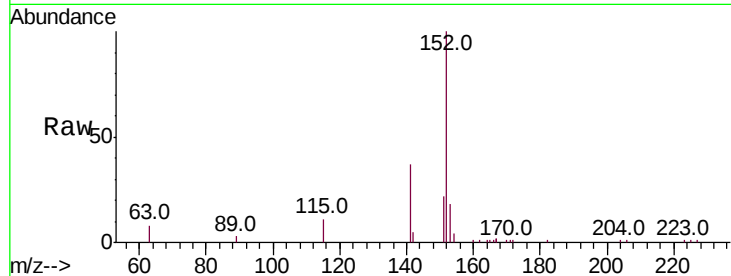




#16
Acenaphthylene
Concen: 1.736 ng
RT: 14.02 min Scan# 889
Delta R.T. -0.01 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

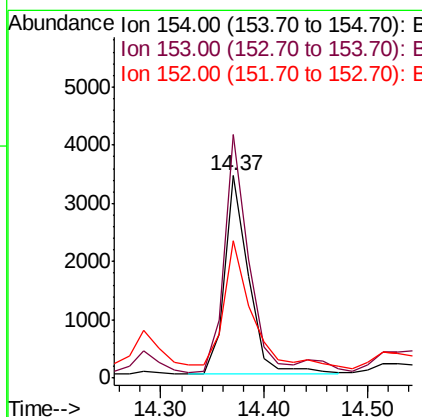
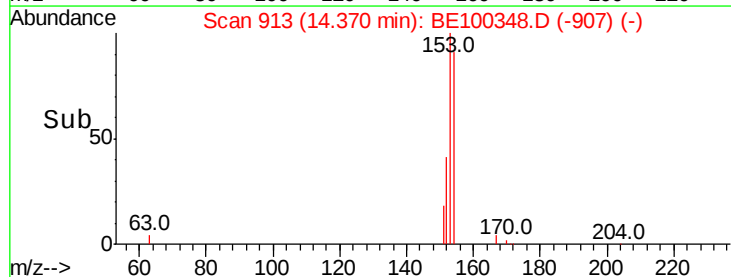
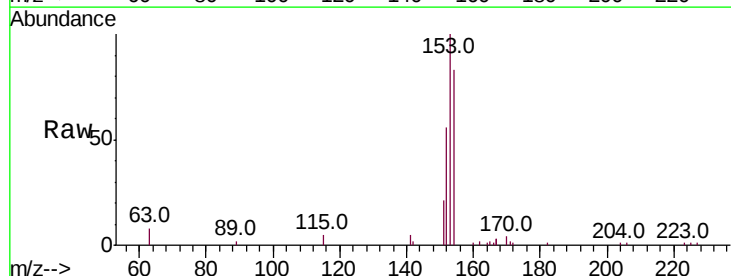
Instrument :
BNA_E
ClientSampleId :

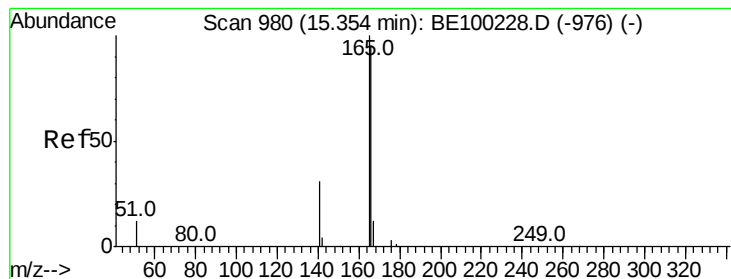
Tot Ion:152 Resp: 17185
Ion Ratio Lower Upper
152 100
151 20.3 16.6 25.0
153 15.6 10.5 15.7



#17
Acenaphthene
Concen: 0.991 ng
RT: 14.37 min Scan# 913
Delta R.T. -0.01 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

Tgt Ion:154 Resp: 5560
Ion Ratio Lower Upper
154 100
153 118.5 93.4 140.2
152 69.4 49.4 74.2





#18

Fluorene

Concen: 1.968 ng

RT: 15.35 min Scan# 980

Delta R.T. -0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

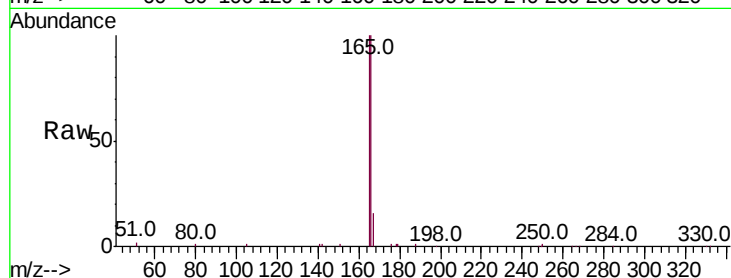
Tot Ion:166 Resp: 16324

Ion Ratio Lower Upper

166 100

165 107.5 81.1 121.7

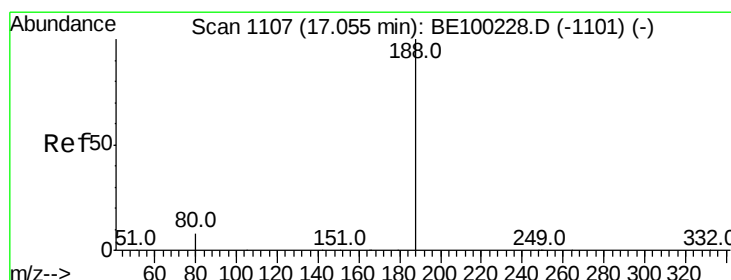
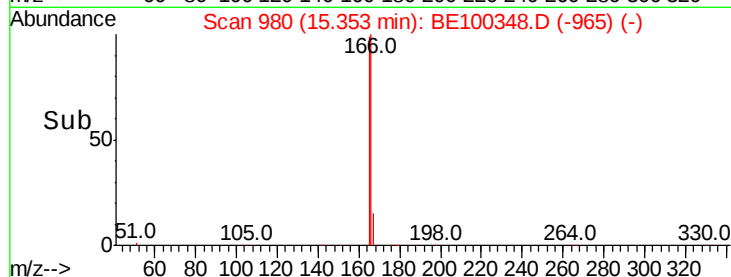
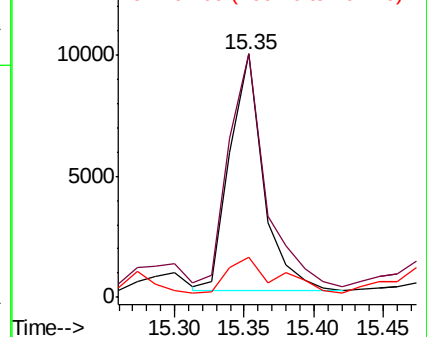
167 22.9 10.7 16.1#



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.05 min Scan# 1107

Delta R.T. -0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

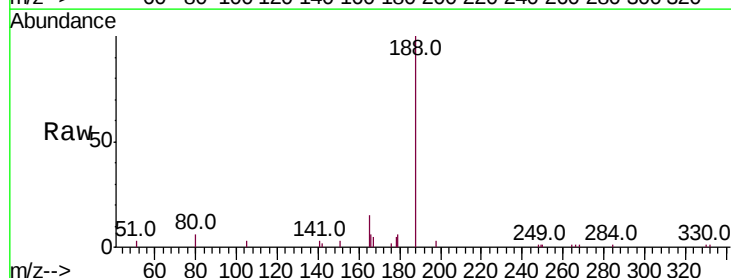
Tgt Ion:188 Resp: 5646

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

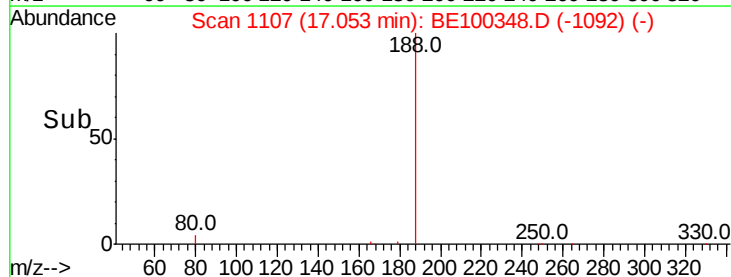
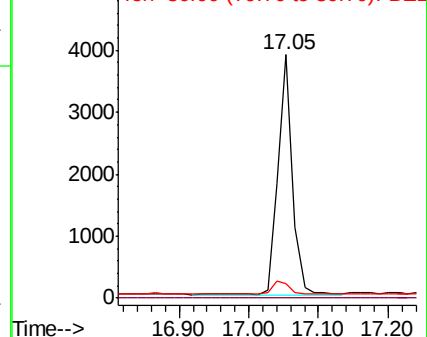
80 5.7 7.6 11.4#

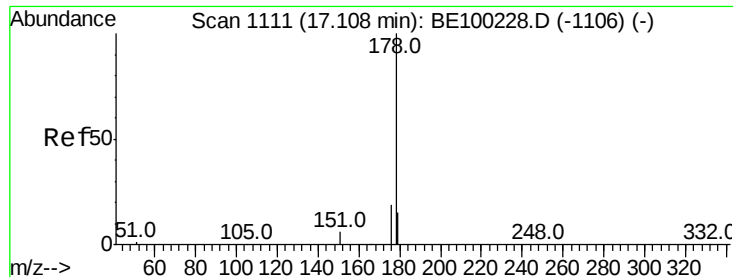


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1





#23

Phenanthrene

Concen: 27.255 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

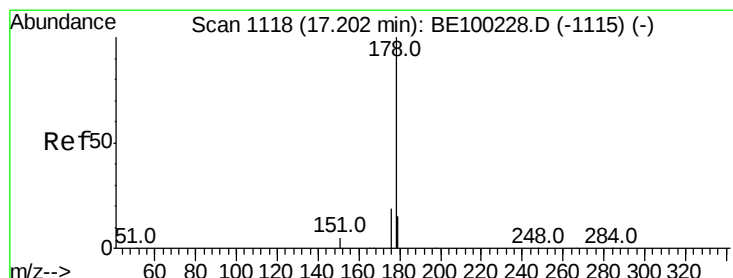
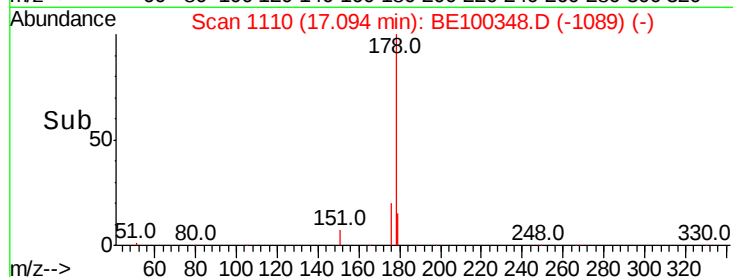
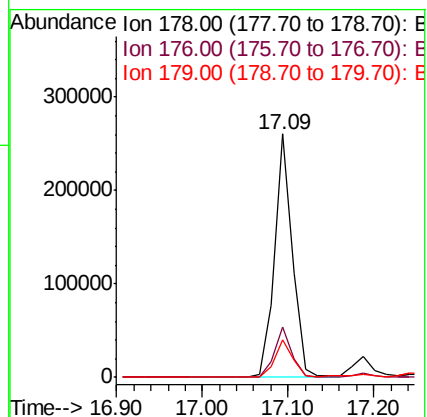
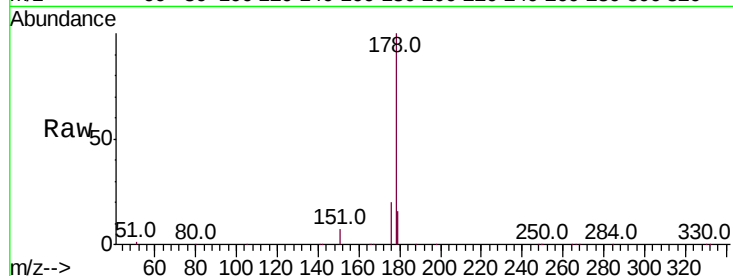
Tot Ion:178 Resp: 372966

Ion Ratio Lower Upper

178 100

176 20.1 15.9 23.9

179 15.6 12.2 18.2



#24

Anthracene

Concen: 2.463 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

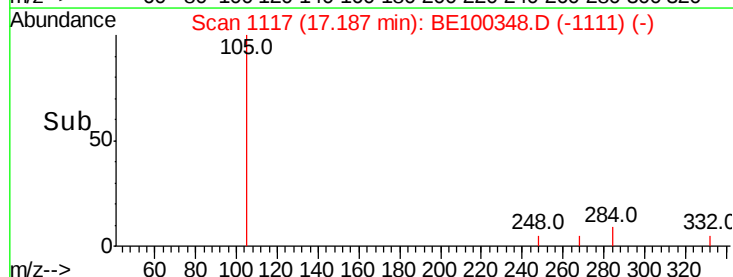
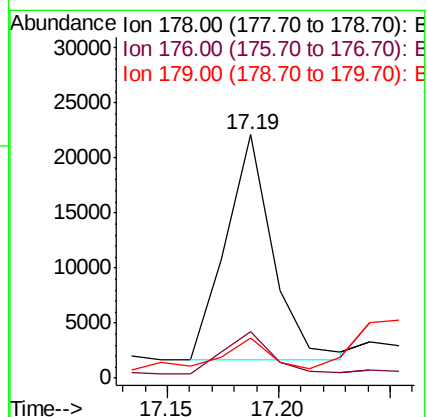
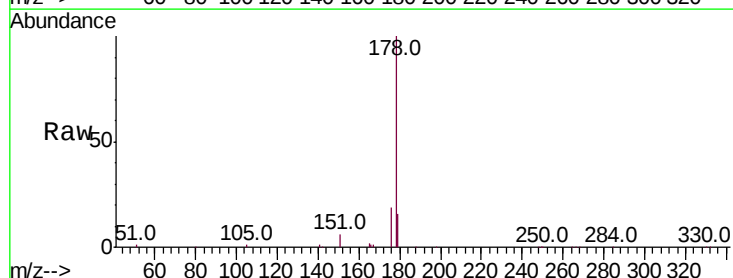
Tgt Ion:178 Resp: 30355

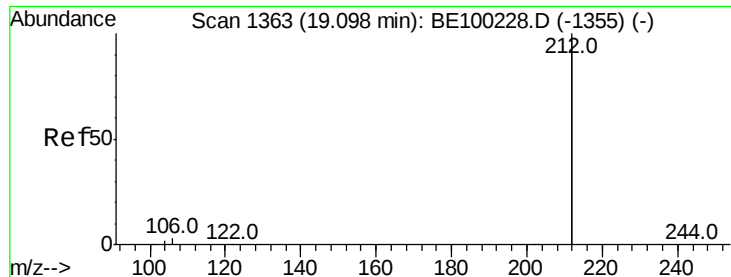
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.0 12.2 18.2





#25

Fluoranthene-d10

Concen: 0.034 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

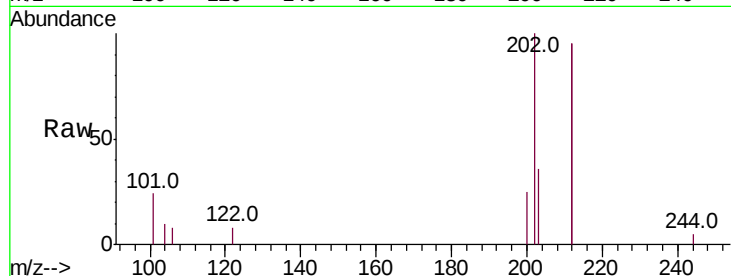
Tot Ion:212 Resp: 2794

Ion Ratio Lower Upper

212 100

106 1.6 1.3 1.9

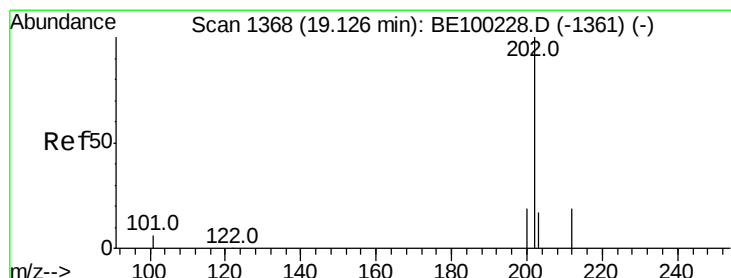
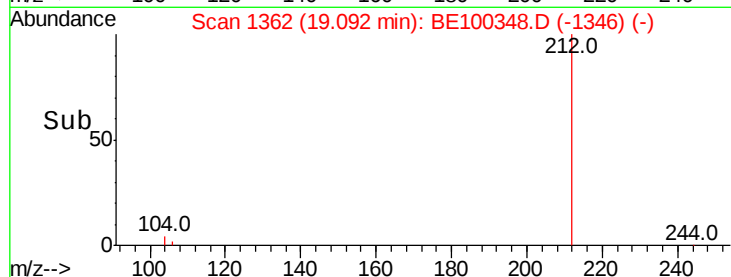
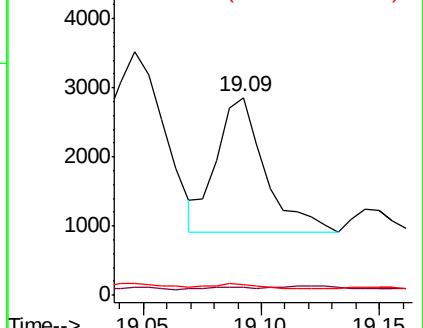
104 3.7 0.8 1.2#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 21.352 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

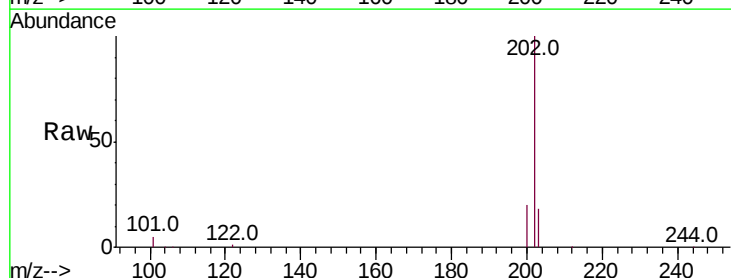
Tgt Ion:202 Resp: 465395

Ion Ratio Lower Upper

202 100

101 4.9 4.6 7.0

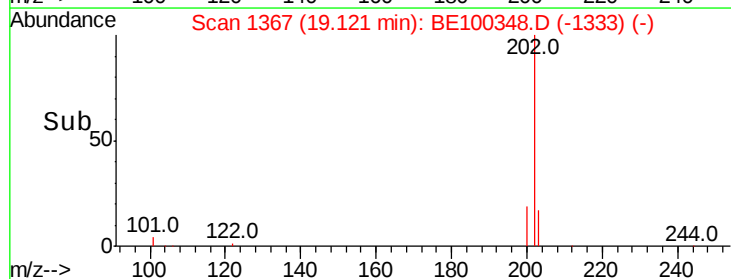
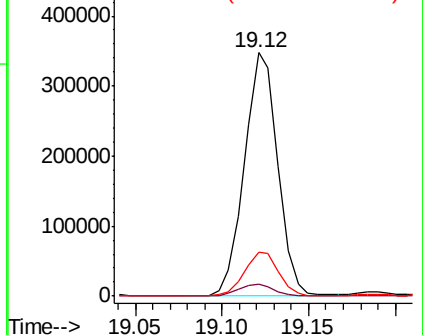
203 18.2 13.7 20.5

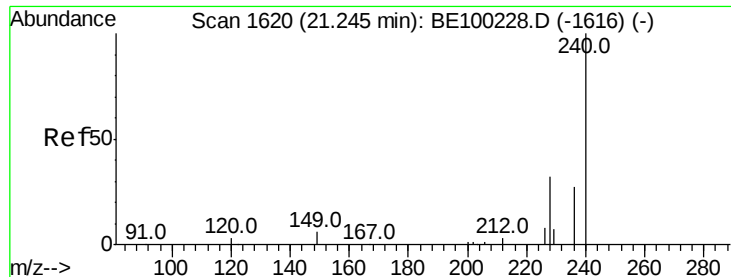


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.25 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

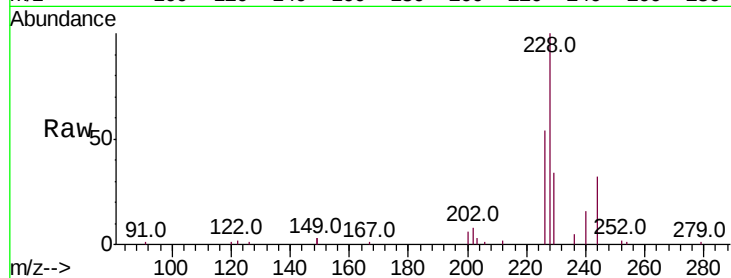
Tot Ion:240 Resp: 7993

Ion Ratio Lower Upper

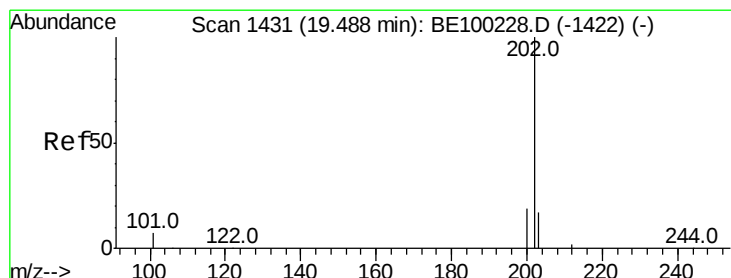
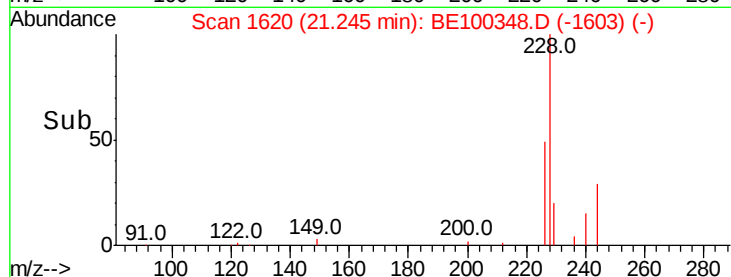
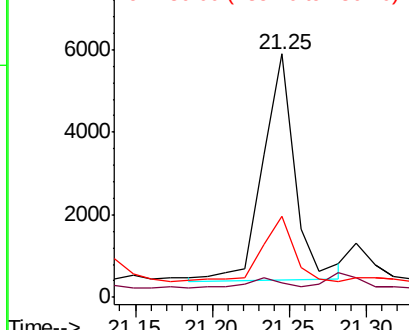
240 100

120 5.9 3.3 4.9#

236 33.0 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: 32.955 ng

RT: 19.49 min Scan# 1431

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

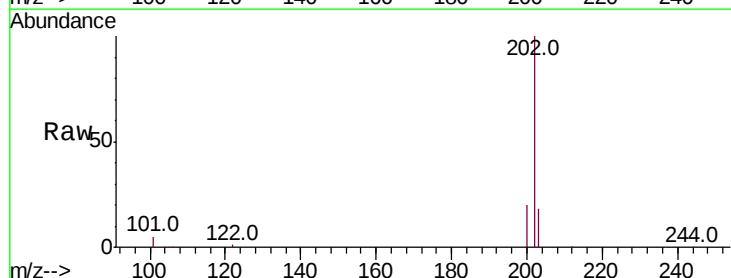
Tgt Ion:202 Resp: 697395

Ion Ratio Lower Upper

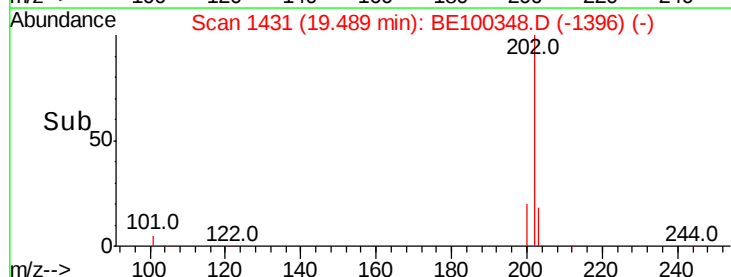
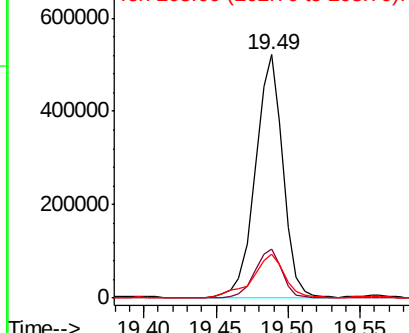
202 100

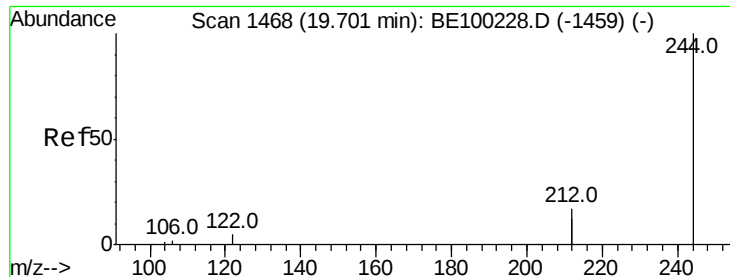
200 20.0 15.6 23.4

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: 0.085 ng

RT: 19.69 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Instrument :

BNA_E

ClientSampleId :

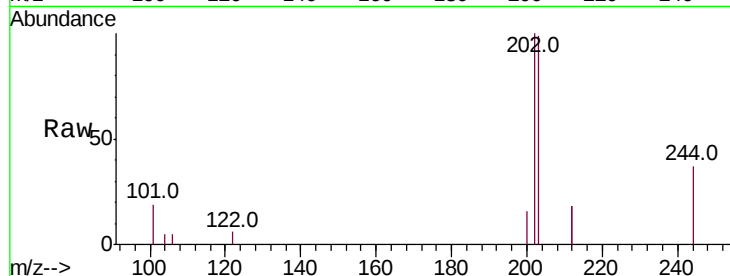
Tot Ion:244 Resp: 1416

Ion Ratio Lower Upper

244 100

212 95.6 27.3 40.9#

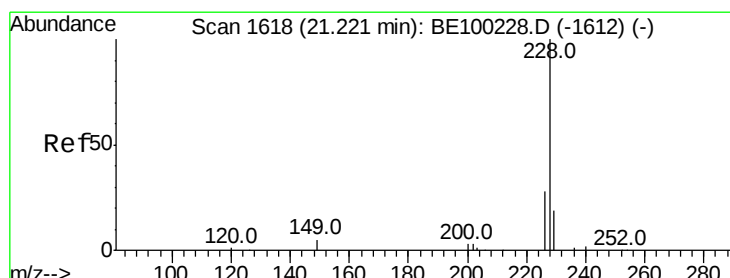
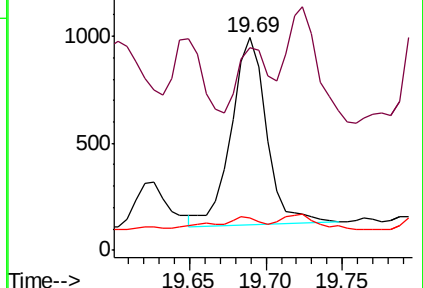
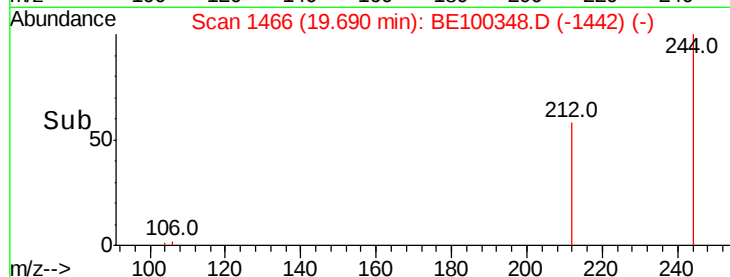
122 15.4 4.7 7.1#



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: 12.061 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

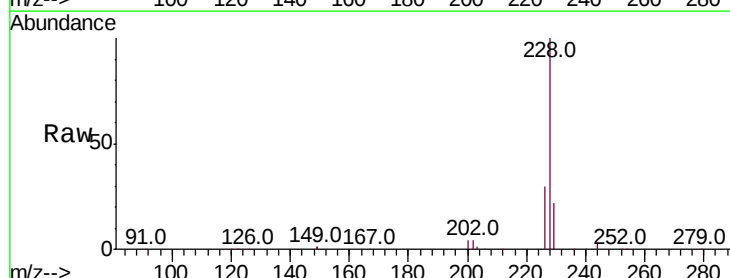
Tgt Ion:228 Resp: 316981

Ion Ratio Lower Upper

228 100

226 29.7 23.2 34.8

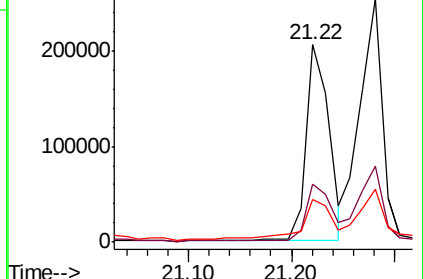
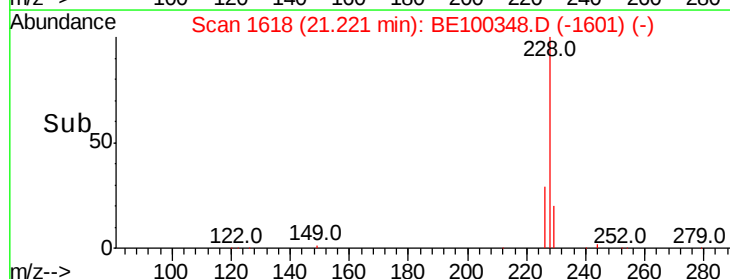
229 21.8 15.7 23.5

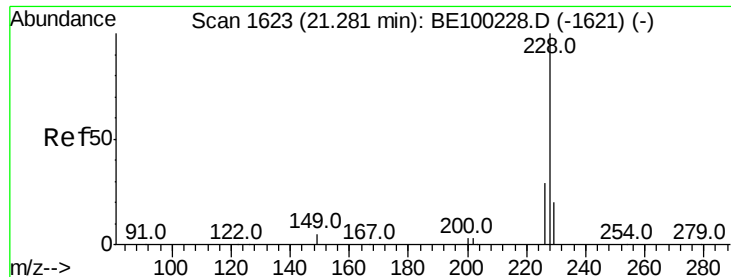


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 14.488 ng

RT: 21.28 min Scan# 1623

Delta R.T. 0.00 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

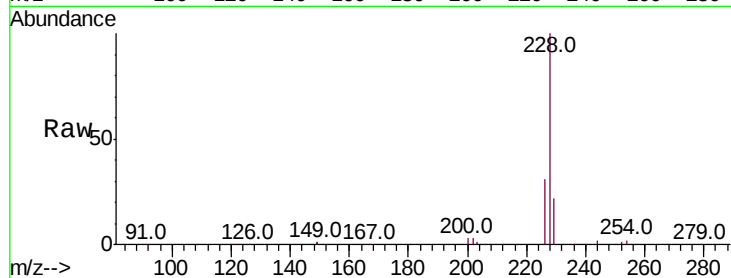
Instrument :

BNA_E

ClientSampleId :

Tot Ion:228 Resp: 382335

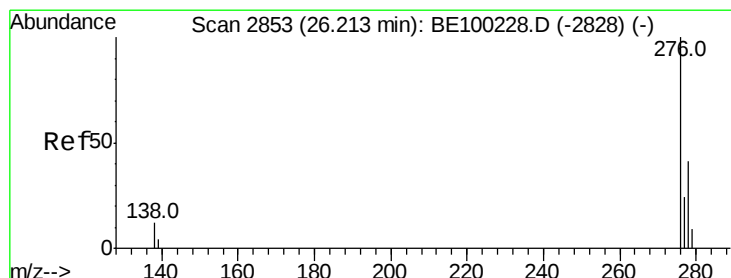
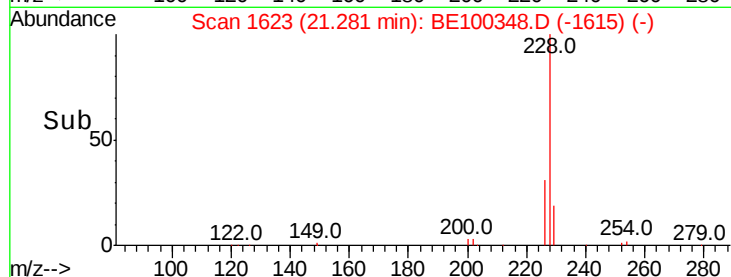
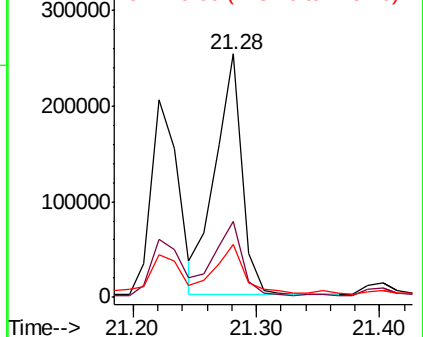
Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.9	35.9
229	21.8	16.5	24.7



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: 4.629 ng

RT: 26.23 min Scan# 2857

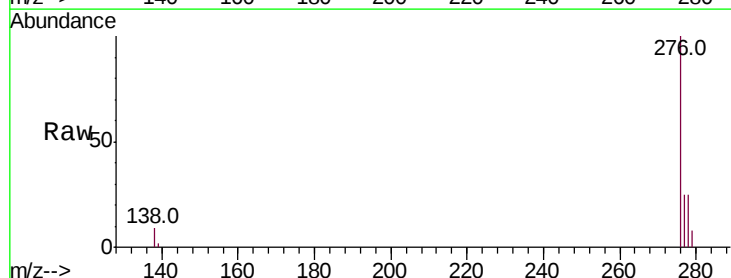
Delta R.T. 0.01 min

Lab File: BE100348.D

Acq: 4 Jul 2019 2:59

Tgt Ion:276 Resp: 161577

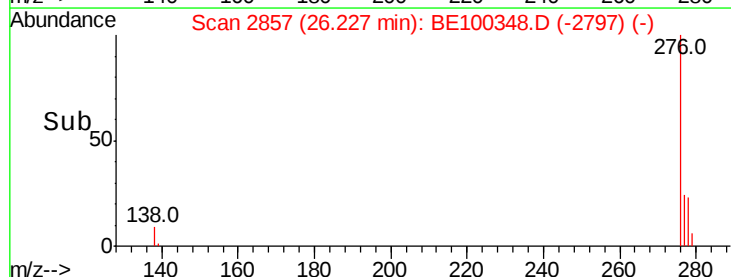
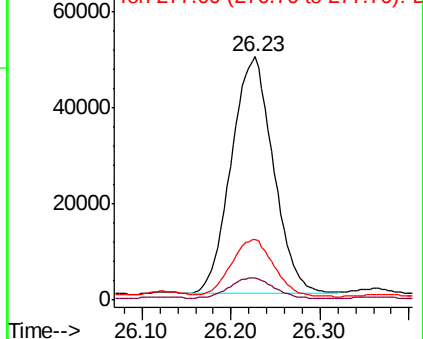
Ion	Ratio	Lower	Upper
276	100		
138	9.0	9.4	14.0#
277	24.6	19.2	28.8

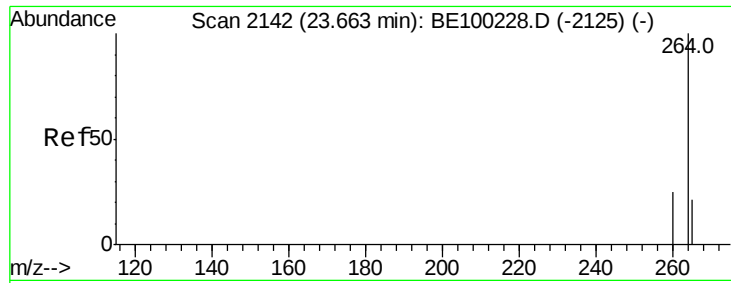


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

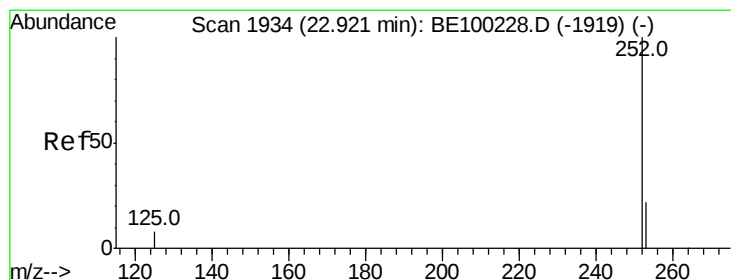
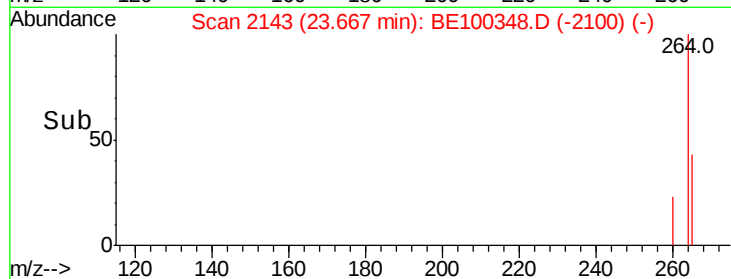
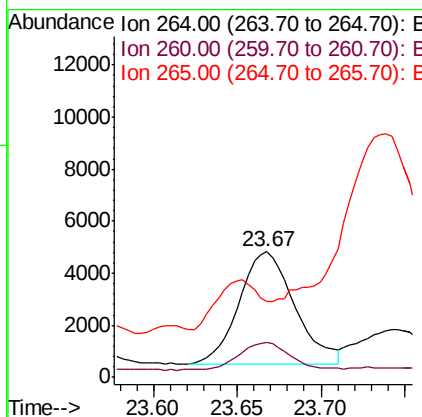
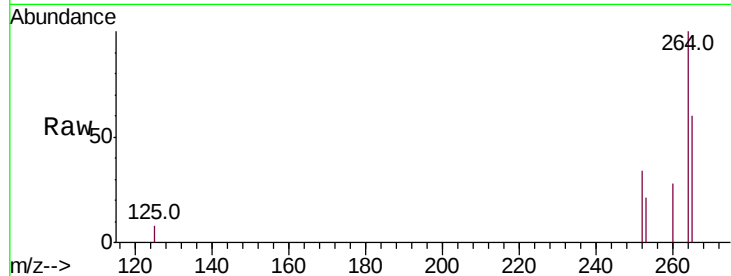




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.67 min Scan# 2143
Delta R.T. 0.00 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

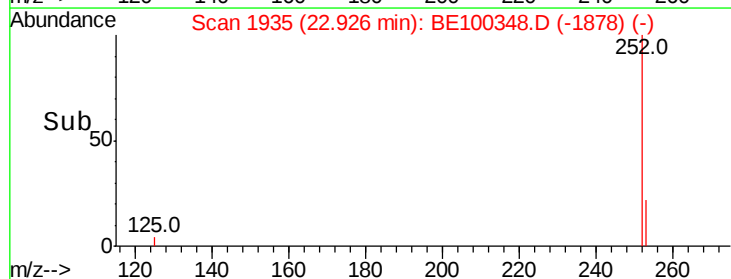
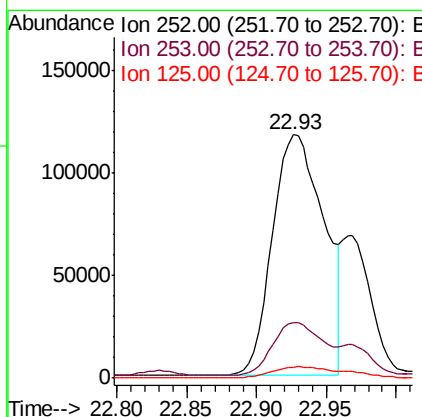
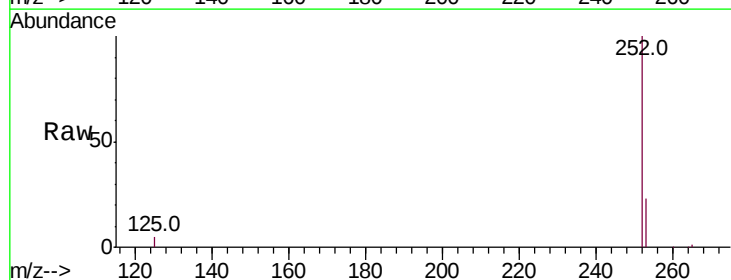
Instrument :
BNA_E
ClientSampleId :

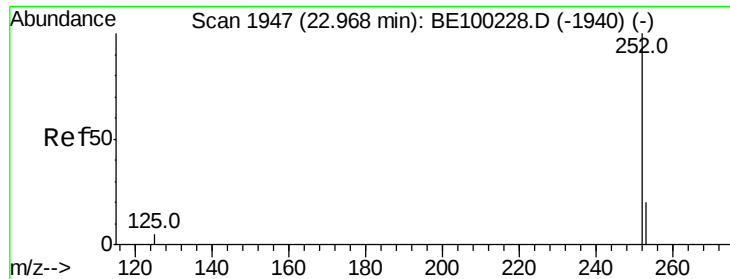
Tot Ion:264 Resp: 10042
Ion Ratio Lower Upper
264 100
260 28.1 20.8 31.2
265 60.5 21.8 32.6#



#35
Benzo(b)fluoranthene
Concen: 11.099 ng
RT: 22.93 min Scan# 1935
Delta R.T. 0.00 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

Tgt Ion:252 Resp: 302183
Ion Ratio Lower Upper
252 100
253 22.8 19.2 28.8
125 4.6 7.4 11.0#

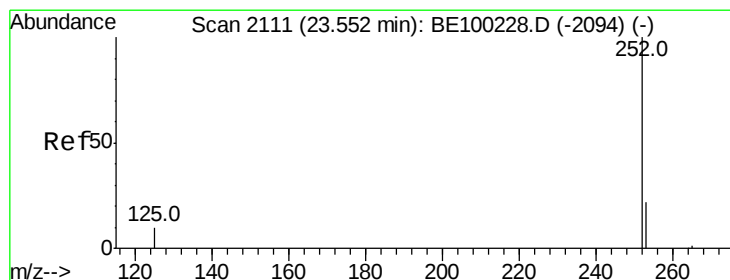
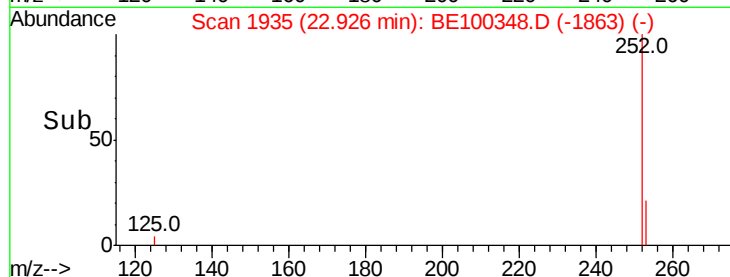
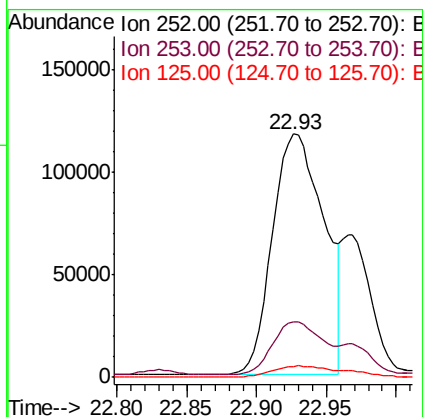
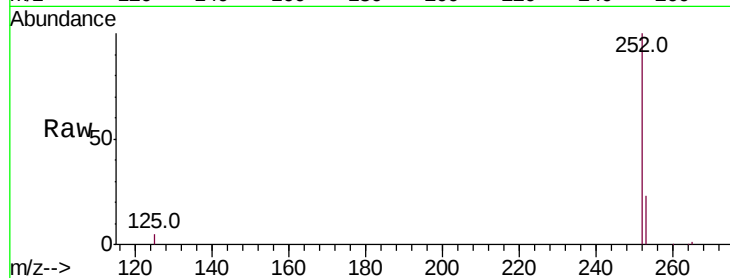




#36
Benzo(k)fluoranthene
Concen: 9.943 ng
RT: 22.93 min Scan# 1935
Delta R.T. -0.04 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

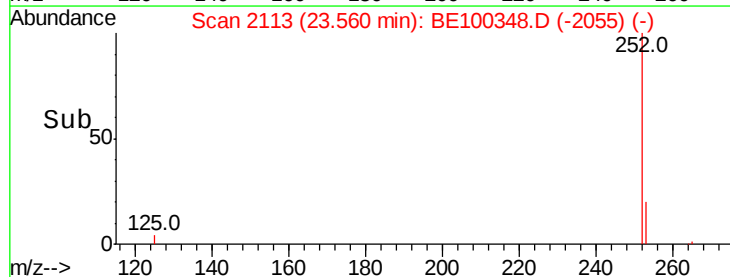
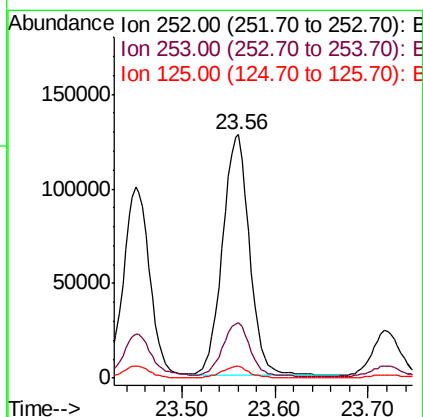
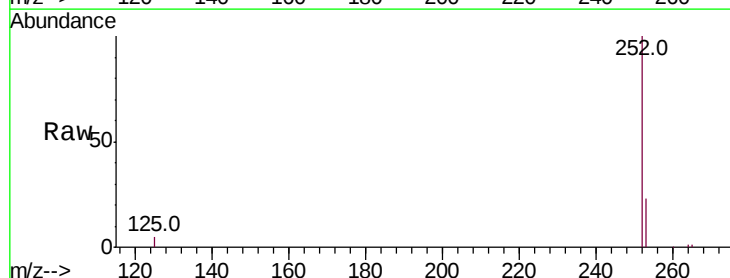
Instrument :
BNA_E
ClientSampleId :

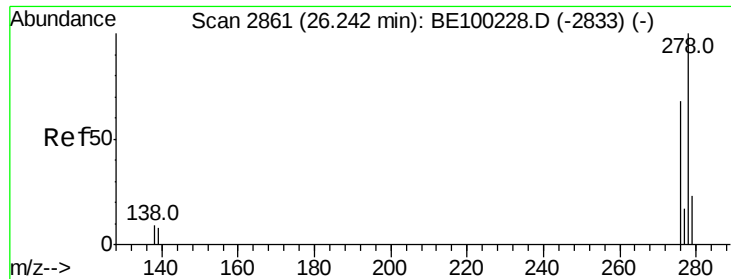
Tot Ion:252 Resp: 302183
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 4.6 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 9.379 ng
RT: 23.56 min Scan# 2113
Delta R.T. 0.01 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

Tgt Ion:252 Resp: 255921
Ion Ratio Lower Upper
252 100
253 22.8 19.6 29.4
125 4.7 9.0 13.6#

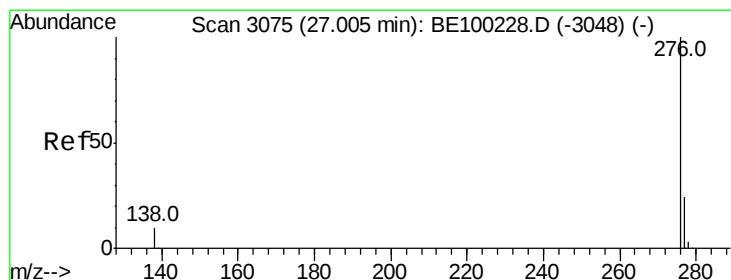
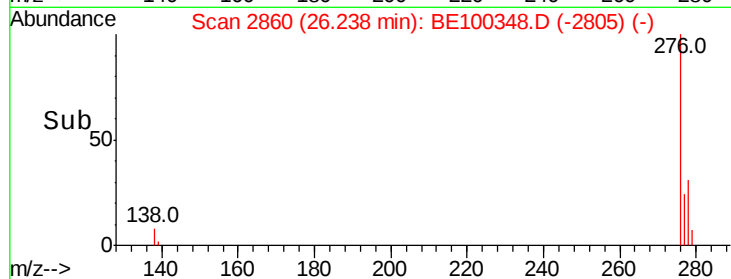
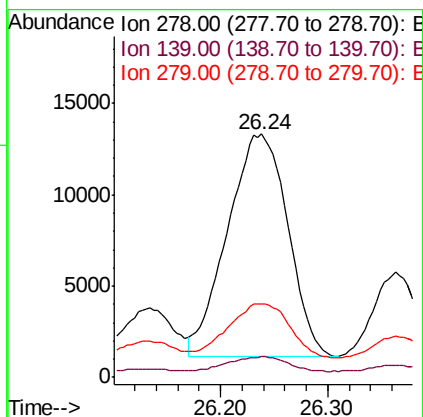
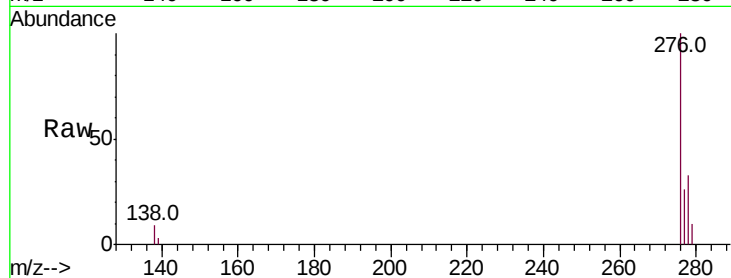




#38
Dibenzo(a,h)anthracene
Concen: 1.659 ng
RT: 26.24 min Scan# 2860
Delta R.T. -0.00 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 47272
Ion Ratio Lower Upper
278 100
139 8.4 8.2 12.2
279 30.4 20.3 30.5



#39
Benzo(g,h,i)perylene
Concen: 6.553 ng
RT: 27.02 min Scan# 3079
Delta R.T. 0.01 min
Lab File: BE100348.D
Acq: 4 Jul 2019 2:59

Tgt Ion:276 Resp: 191854
Ion Ratio Lower Upper
276 100
277 24.5 20.2 30.2
138 9.4 9.0 13.6

