

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070319\
 Data File : BE100345.D
 Acq On : 4 Jul 2019 1:09
 Operator : JU/SJ
 Sample : K3560-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 04 02:39:29 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	549	0.40	ng	-0.01
7) Naphthalene-d8	10.43	136	1868	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	1598	0.40	ng	0.00
19) Phenanthrene-d10	17.05	188	5074	0.40	ng	0.00
27) Chrysene-d12	21.25	240	6706	0.40	ng	0.00
34) Perylene-d12	23.66	264	8080	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.20	112	569	0.41	ng	-0.01
5) Phenol-d6	6.83	99	681	0.37	ng	-0.01
8) Nitrobenzene-d5	8.81	82	692	0.37	ng	-0.01
11) 2-Methylnaphthalene-d10	12.04	152	1299	0.37	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	485	0.43	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	2030	0.33	ng	-0.01
25) Fluoranthene-d10	19.09	212	23226	0.32	ng	0.00
29) Terphenyl-d14	19.69	244	5195	0.37	ng	-0.01

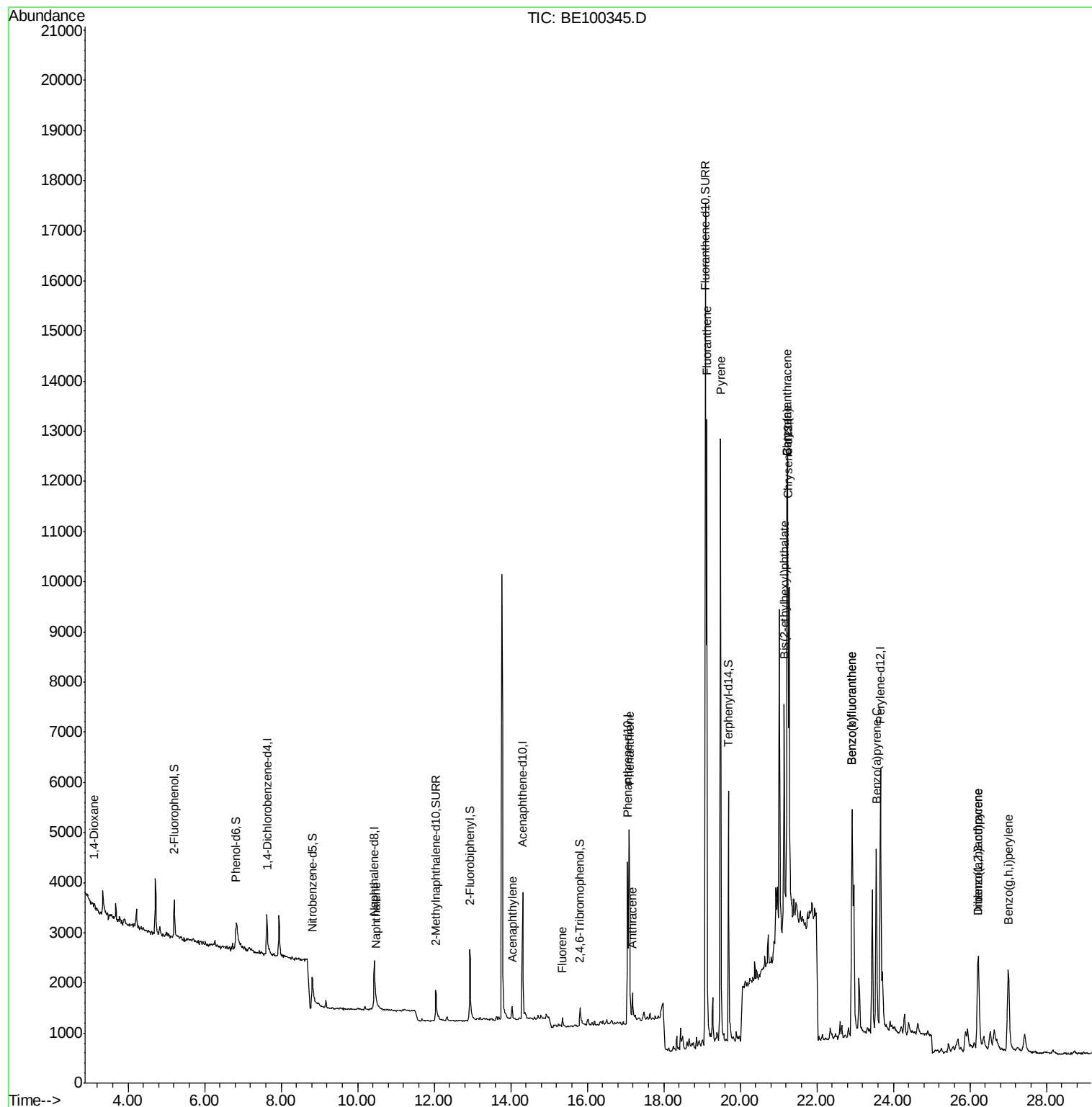
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.11	88	26	0.031	ng	# 1
9) Naphthalene	10.48	128	496	0.024	ng	# 72
16) Acenaphthylene	14.04	152	431	0.056	ng	# 89
18) Fluorene	15.35	166	172	0.027	ng	# 75
23) Phenanthrene	17.09	178	4545	0.370	ng	99
24) Anthracene	17.19	178	751	0.068	ng	96
26) Fluoranthene	19.12	202	12158	0.621	ng	100
28) Pyrene	19.48	202	11929	0.672	ng	97
30) Benzo(a)anthracene	21.22	228	7689	0.349	ng	# 94
31) Chrysene	21.22	228	4645	0.210	ng	96
32) Bis(2-ethylhexyl)phthalate	21.15	149	5685	0.125	ng	97
33) Indeno(1,2,3-cd)pyrene	26.22	276	4456	0.152	ng	96
35) Benzo(b)fluoranthene	22.92	252	8890	0.406	ng	# 93
36) Benzo(k)fluoranthene	22.92	252	8890	0.364	ng	# 89
37) Benzo(a)pyrene	23.55	252	6336	0.289	ng	# 89
38) Dibenzo(a,h)anthracene	26.23	278	991	0.043	ng	# 45
39) Benzo(a,h,i)perylene	27.00	276	4503	0.191	ng	# 90

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

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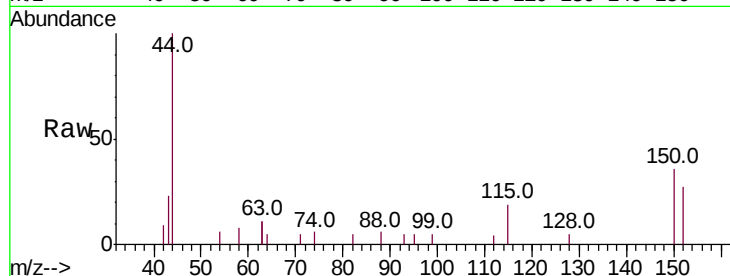


#1

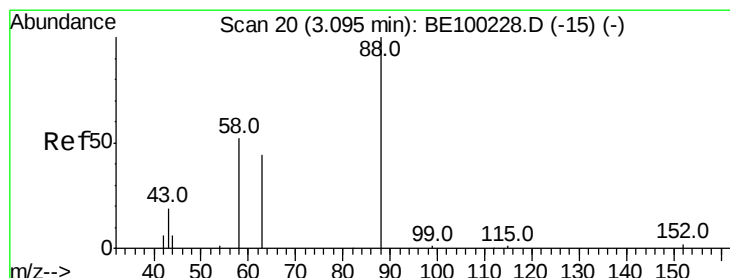
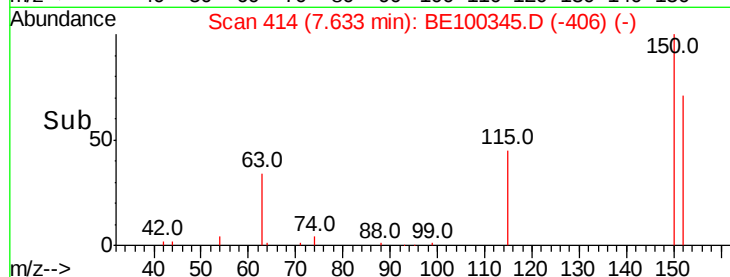
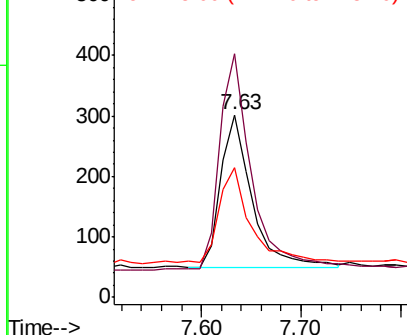
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.63 min Scan# 414
Delta R.T. -0.01 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

Instrument :
BNA_E
ClientSampled :

Tot Ion:152 Resp: 549
Ion Ratio Lower Upper
152 100
150 133.4 114.5 171.7
115 71.2 57.1 85.7



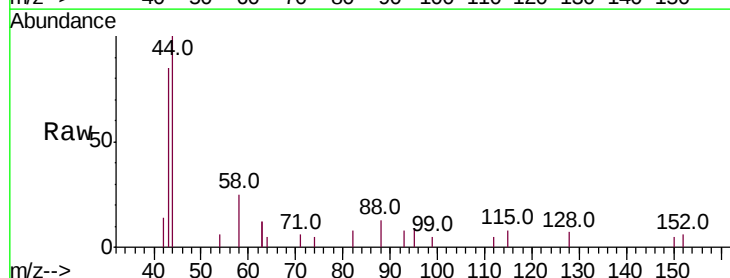
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



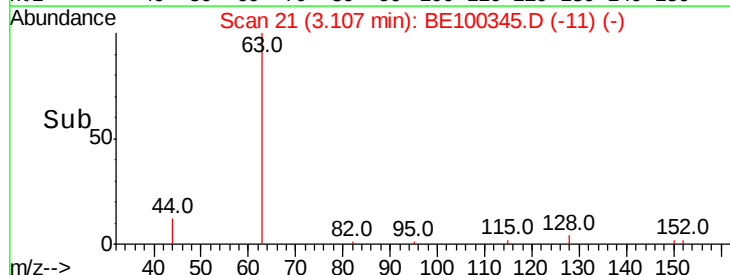
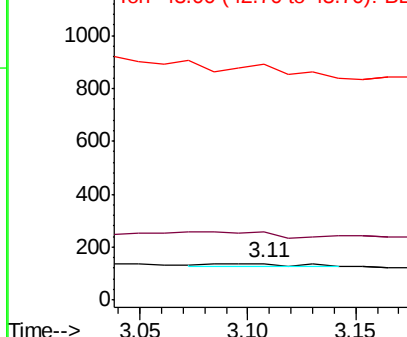
#2

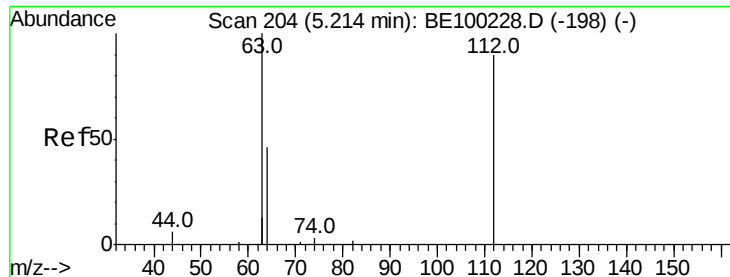
1,4-Dioxane
Concen: 0.031 ng
RT: 3.11 min Scan# 21
Delta R.T. 0.01 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

Tgt Ion: 88 Resp: 26
Ion Ratio Lower Upper
88 100
58 219.2 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





#4

2-Fluorophenol

Concen: 0.406 ng

RT: 5.20 min Scan# 203

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

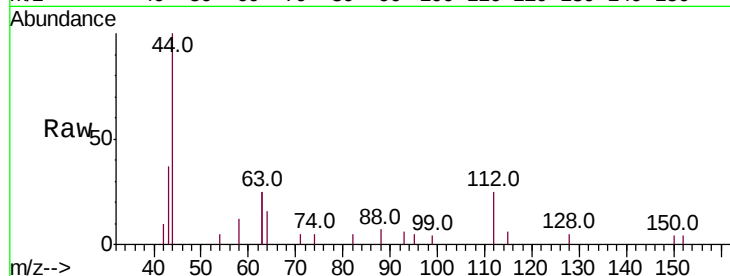
Tot Ion: 112 Resp: 569

Ion Ratio Lower Upper

112 100

64 54.7 39.4 59.0

63 139.7 104.5 156.7



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

800

600

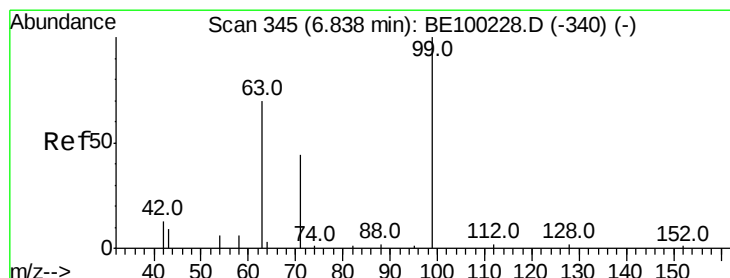
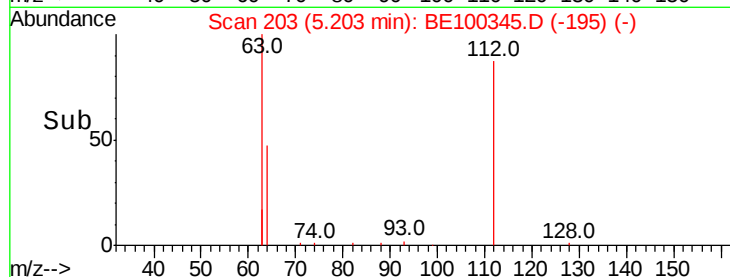
400

200

0

5.10 5.20 5.30 5.40

Time-->



#5

Phenol-d6

Concen: 0.370 ng

RT: 6.83 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

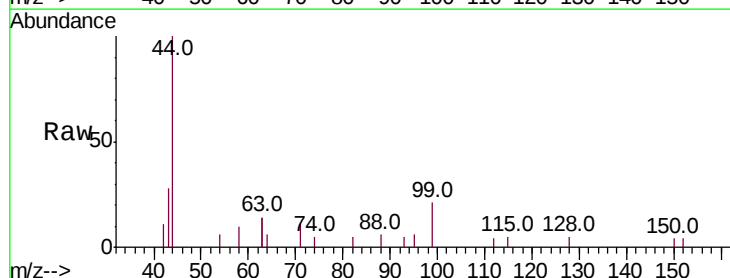
Tgt Ion: 99 Resp: 681

Ion Ratio Lower Upper

99 100

42 19.2 11.2 16.8#

71 47.1 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

300

250

200

150

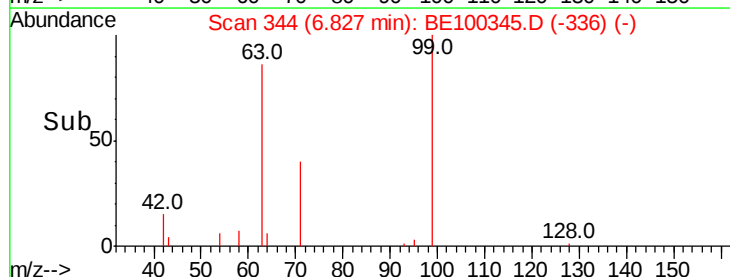
100

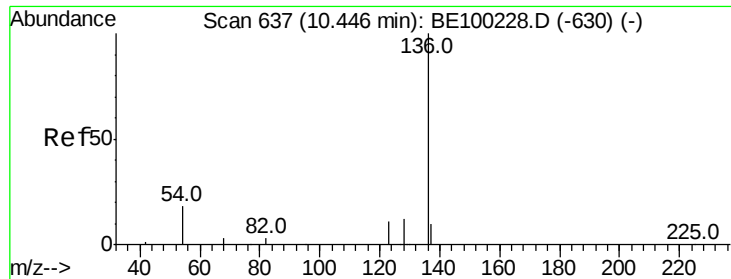
50

0

6.70 6.80 6.90 7.00

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.43 min Scan# 636

Delta R.T. -0.01 min

Lab File: BE100345.D

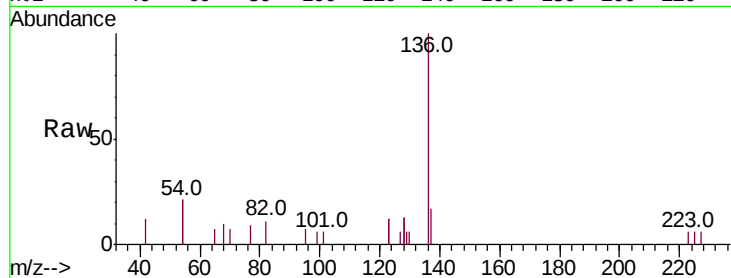
Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	136	Resp:	1868
Ion	Ratio	Lower	Upper
136	100		
137	17.0	11.8	17.8
54	42.7	27.7	41.5#
68	10.3	6.8	10.2#

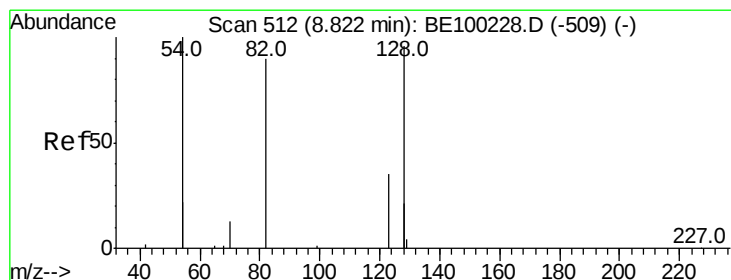
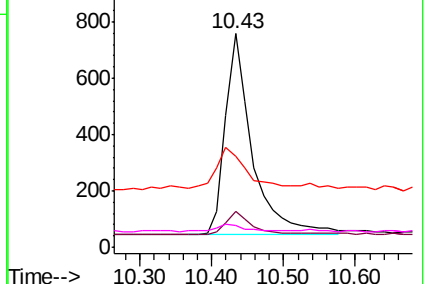
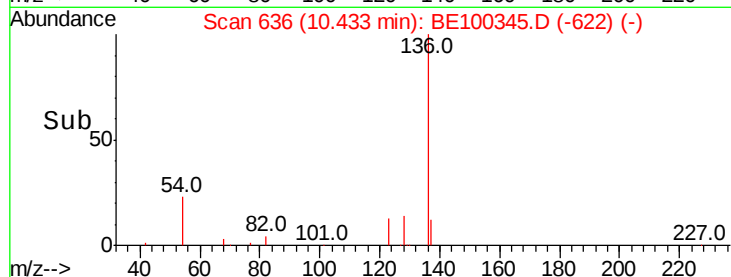


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.373 ng

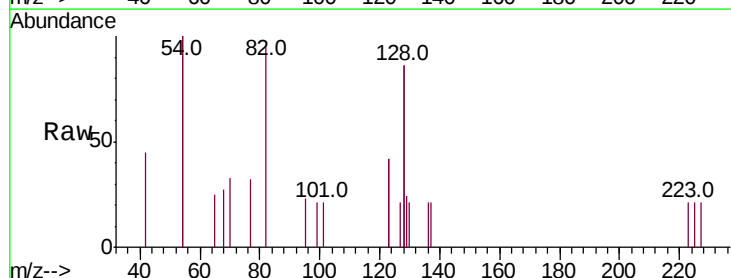
RT: 8.81 min Scan# 511

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

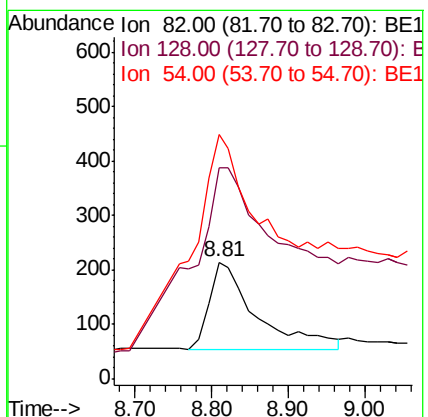
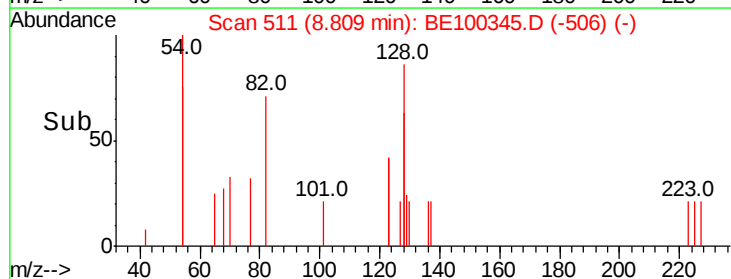
Tgt Ion:	82	Resp:	692
Ion	Ratio	Lower	Upper
82	100		
128	180.4	140.9	211.3
54	209.3	146.2	219.2

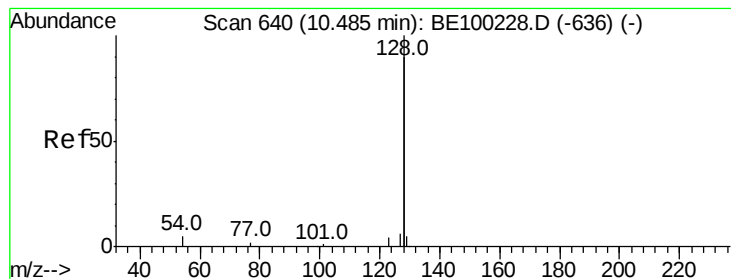


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.024 ng

RT: 10.48 min Scan# 640

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

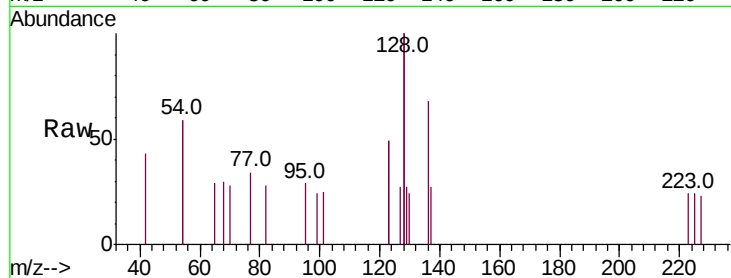
Tot Ion:128 Resp: 496

Ion Ratio Lower Upper

128 100

129 13.4 3.0 4.6#

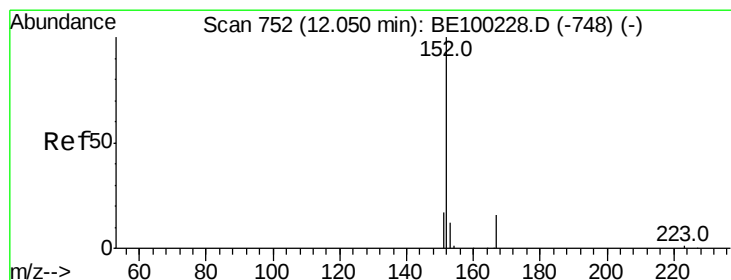
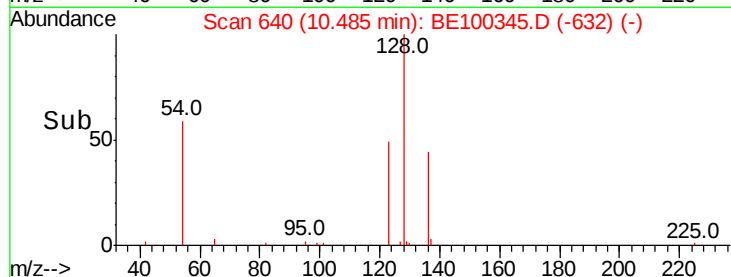
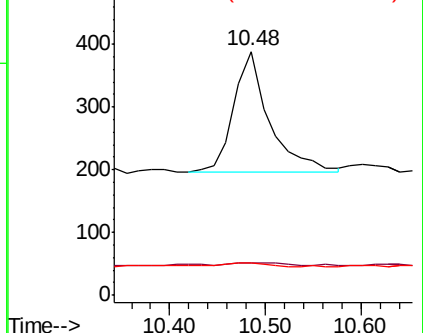
127 13.4 3.5 5.3#



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: 0.370 ng

RT: 12.04 min Scan# 751

Delta R.T. -0.01 min

Lab File: BE100345.D

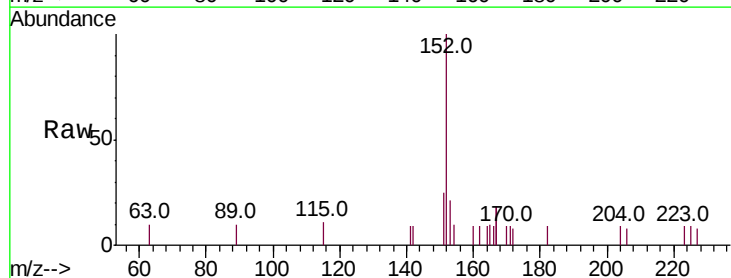
Acq: 4 Jul 2019 1:09

Tgt Ion:152 Resp: 1299

Ion Ratio Lower Upper

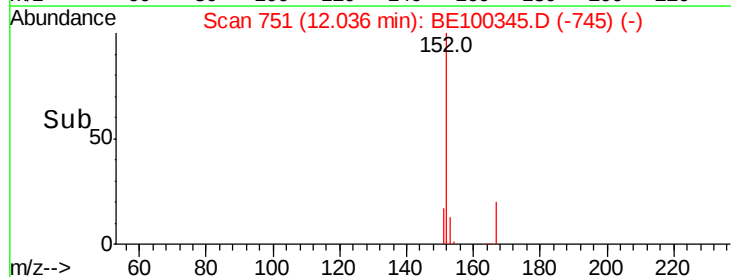
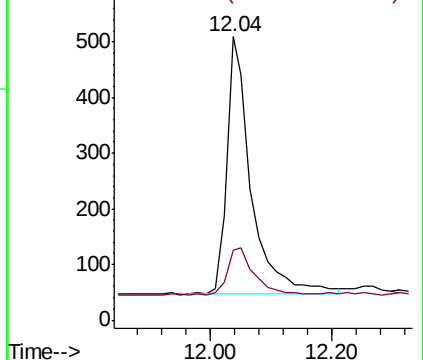
152 100

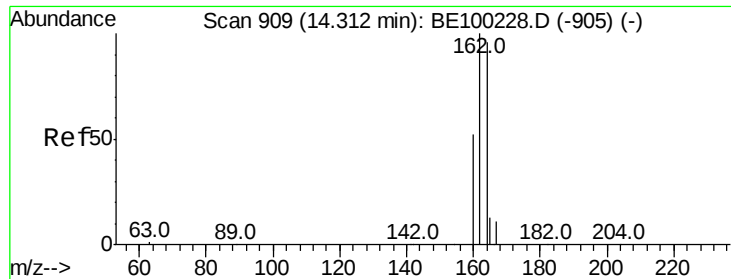
151 19.5 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 909

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

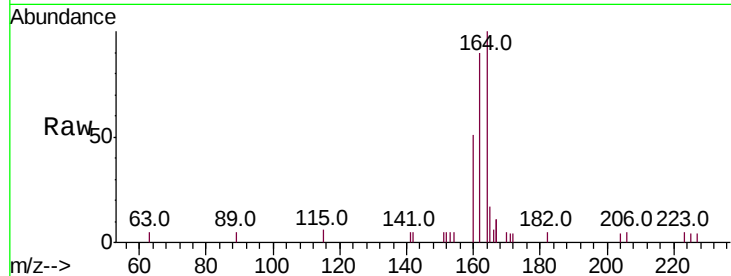
Tot Ion:164 Resp: 1598

Ion Ratio Lower Upper

164 100

162 90.3 83.4 125.0

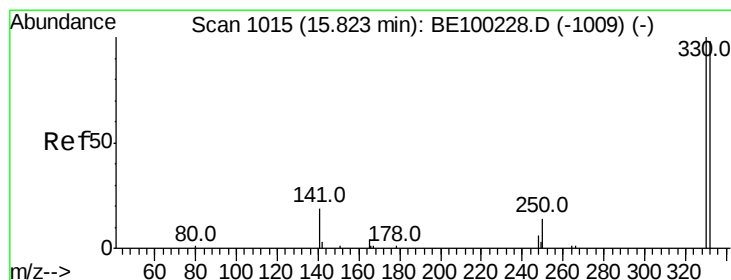
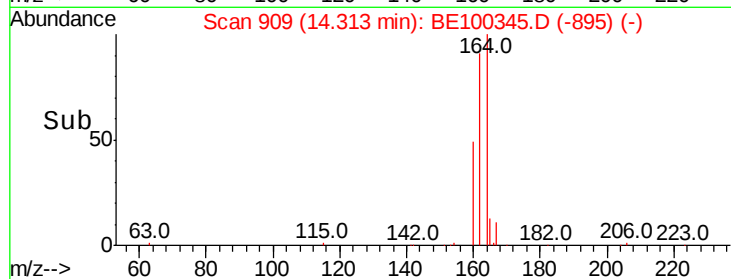
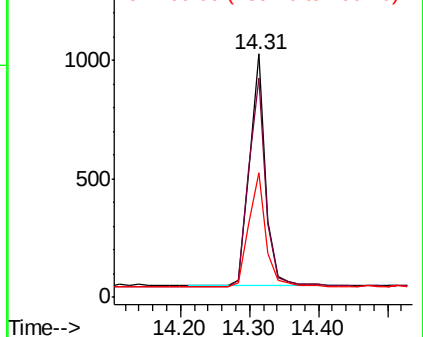
160 51.3 45.0 67.6



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.434 ng

RT: 15.81 min Scan# 1014

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

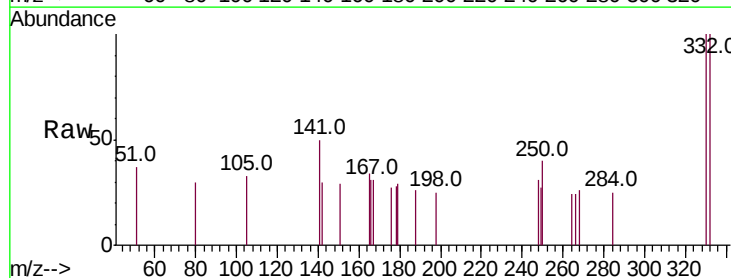
Tgt Ion:330 Resp: 485

Ion Ratio Lower Upper

330 100

332 98.6 77.0 115.4

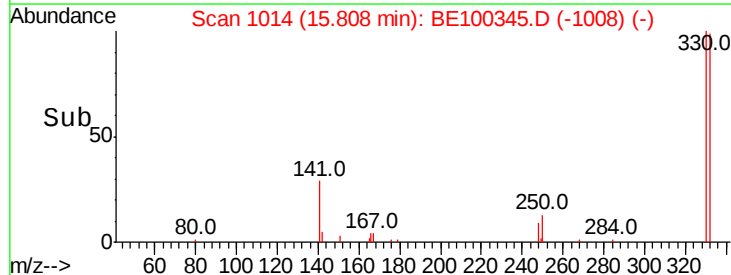
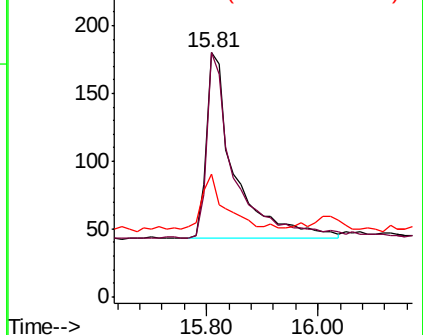
141 23.1 22.0 33.0

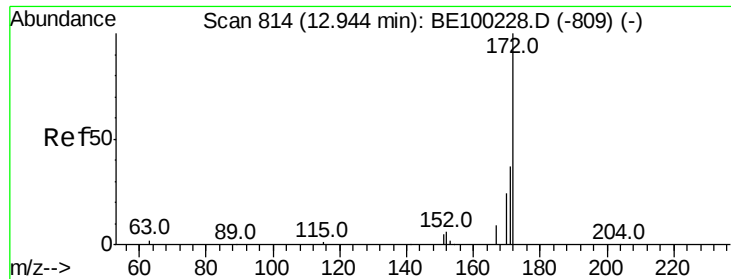


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

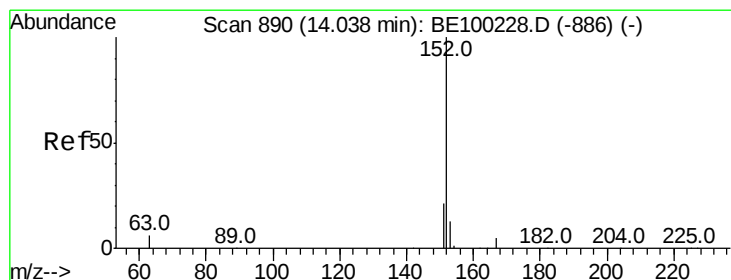
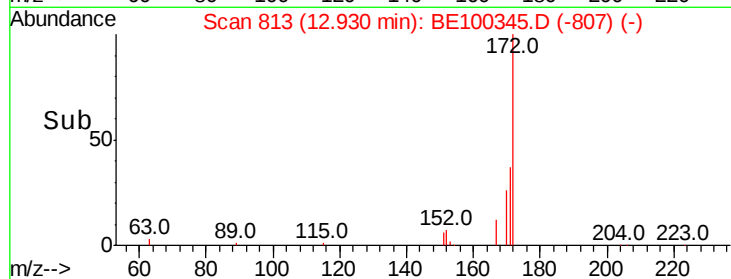
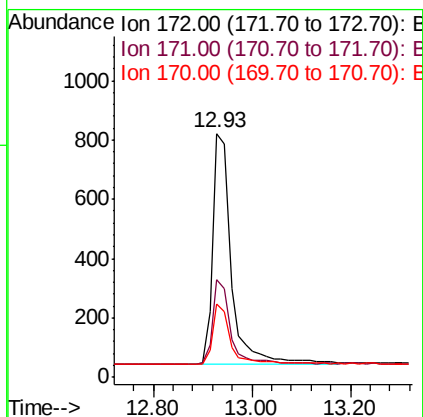
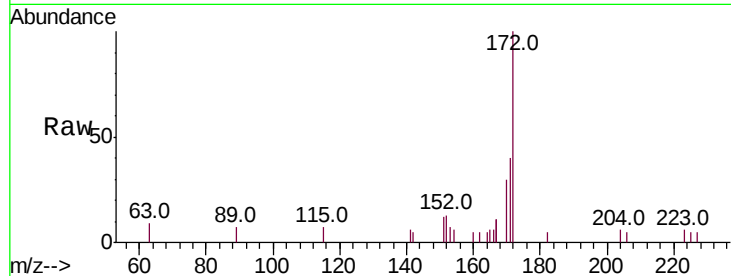




#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.93 min Scan# 813
Delta R.T. -0.01 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

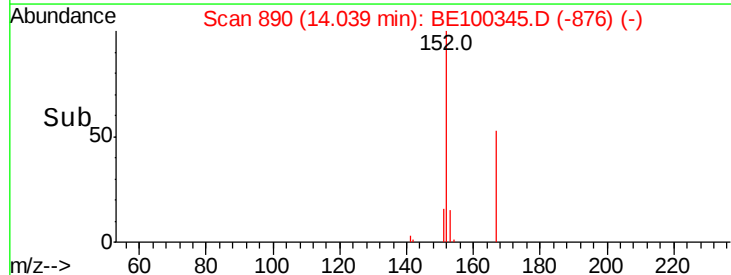
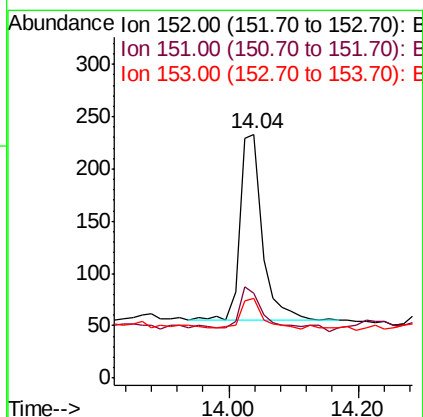
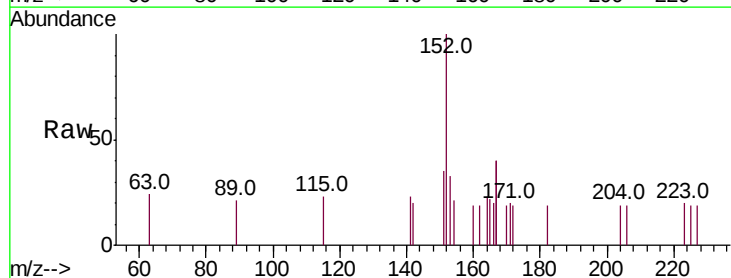
Instrument :
BNA_E
ClientSampleId :

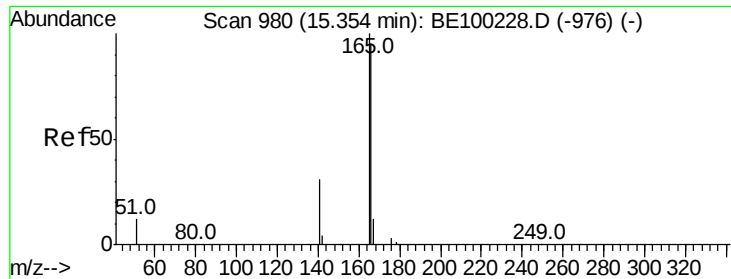
Tot Ion:172 Resp: 2030
Ion Ratio Lower Upper
172 100
171 40.3 31.9 47.9
170 30.3 22.2 33.2



#16
Acenaphthylene
Concen: 0.056 ng
RT: 14.04 min Scan# 890
Delta R.T. 0.00 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

Tgt Ion:152 Resp: 431
Ion Ratio Lower Upper
152 100
151 26.9 16.6 25.0#
153 16.0 10.5 15.7#

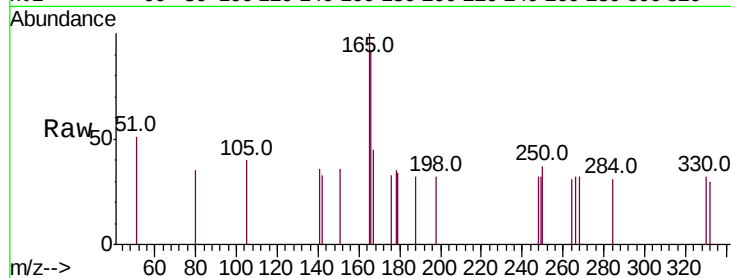




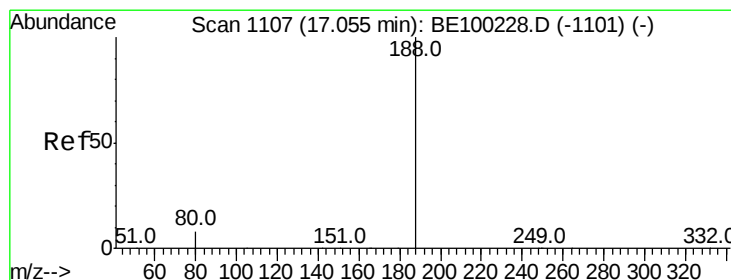
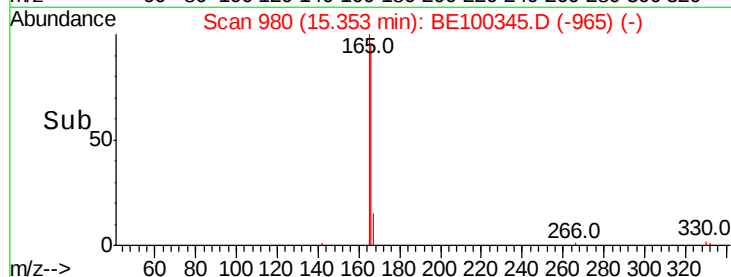
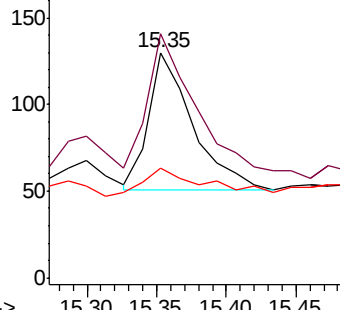
#18
Fluorene
 Concen: 0.027 ng
 RT: 15.35 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: BE100345.D
 Acq: 4 Jul 2019 1:09

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:166 Resp: 172
 Ion Ratio Lower Upper
 166 100
 165 124.4 81.1 121.7#
 167 29.7 10.7 16.1#

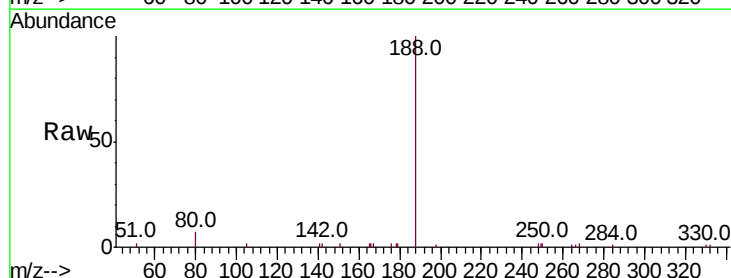


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

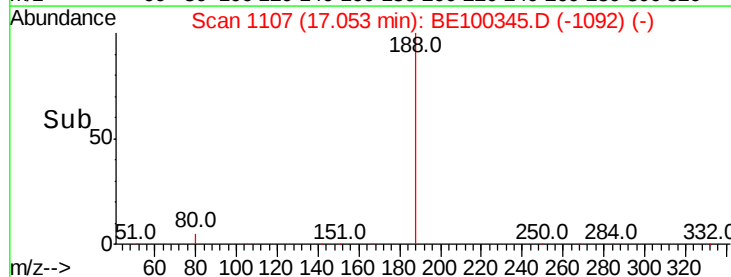
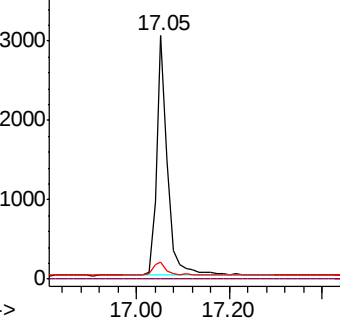


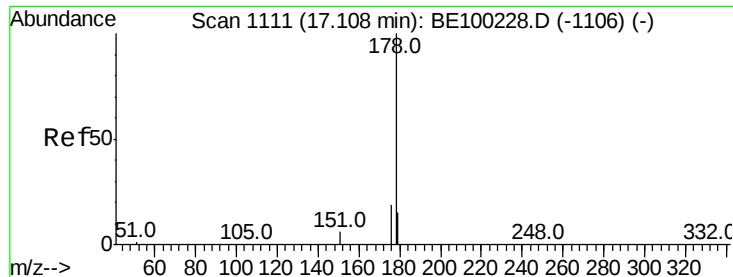
#19
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.05 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: BE100345.D
 Acq: 4 Jul 2019 1:09

Tgt Ion:188 Resp: 5074
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.1 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: 0.370 ng

RT: 17.09 min Scan# 1110

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

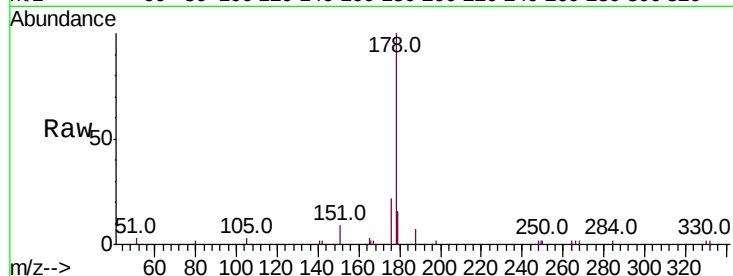
Tot Ion:178 Resp: 4545

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

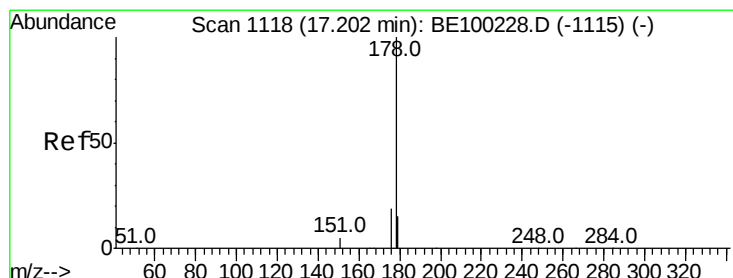
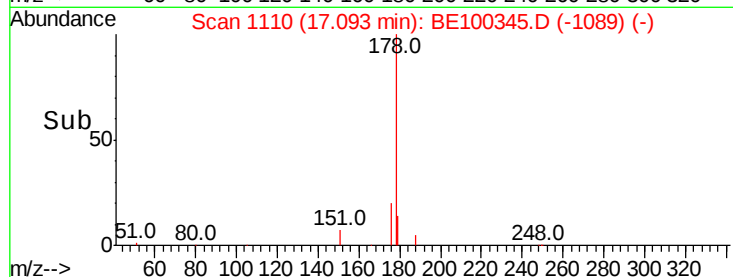
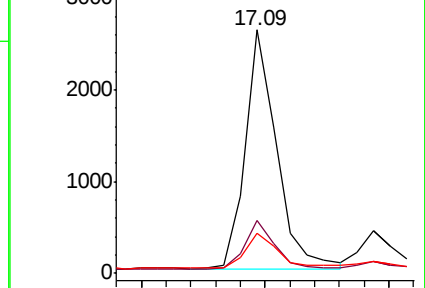
179 16.0 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.068 ng

RT: 17.19 min Scan# 1117

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

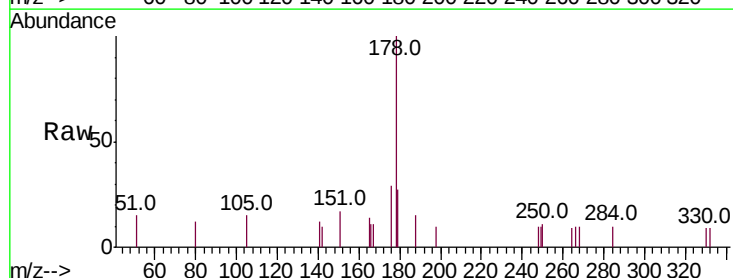
Tgt Ion:178 Resp: 751

Ion Ratio Lower Upper

178 100

176 17.7 15.3 22.9

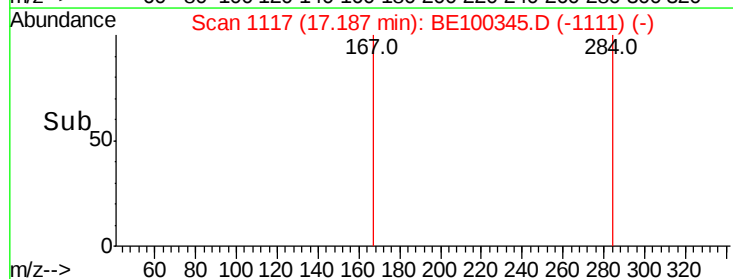
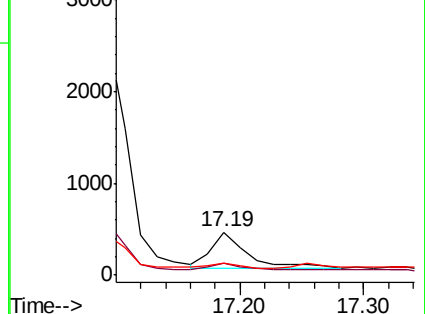
179 12.6 12.2 18.2

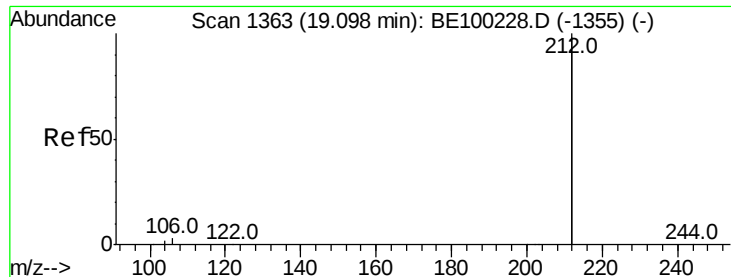


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.315 ng

RT: 19.09 min Scan# 1362

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

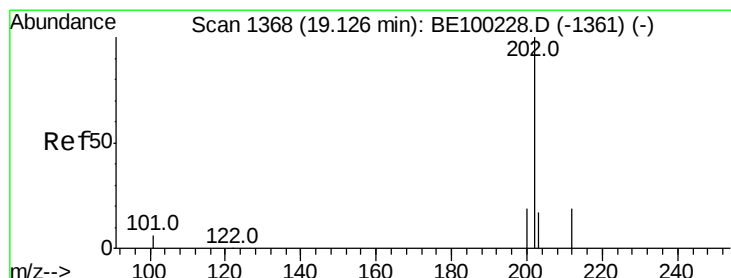
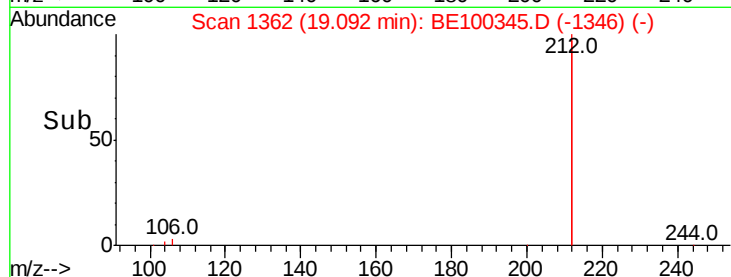
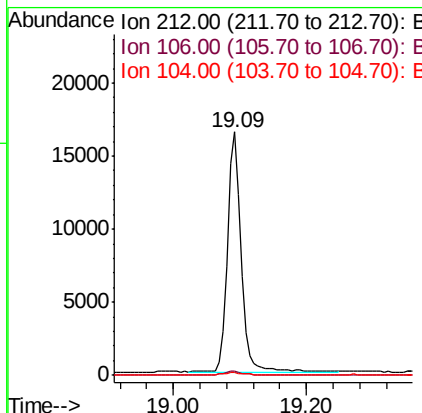
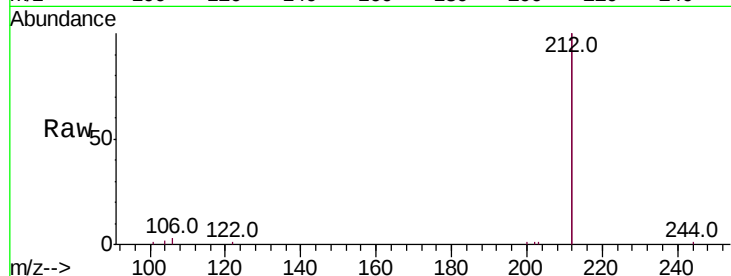
Instrument :

BNA_E

ClientSampleId :

Tot Ion:212 Resp: 23226

Ion	Ratio	Lower	Upper
212	100		
106	1.5	1.3	1.9
104	1.0	0.8	1.2



#26

Fluoranthene

Concen: 0.621 ng

RT: 19.12 min Scan# 1367

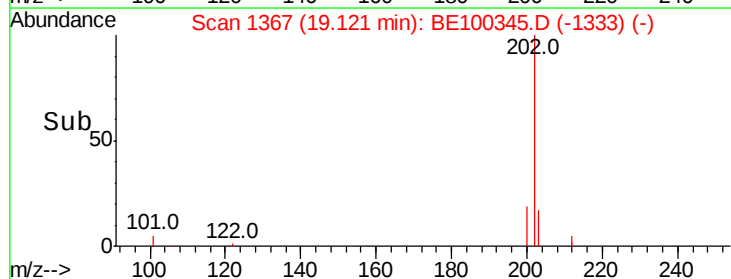
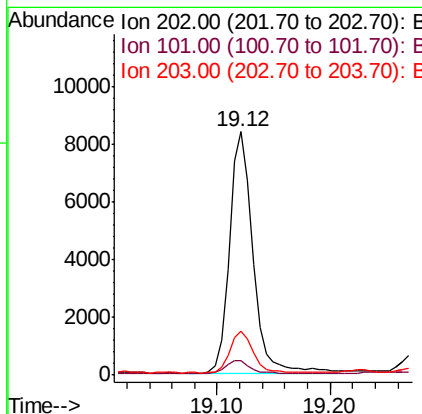
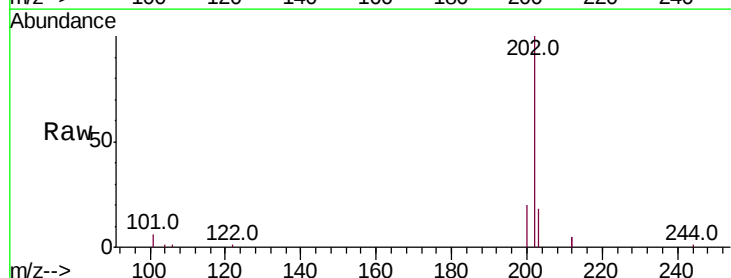
Delta R.T. -0.01 min

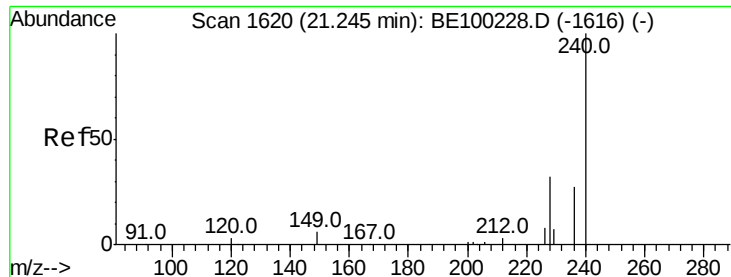
Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Tgt Ion:202 Resp: 12158

Ion	Ratio	Lower	Upper
202	100		
101	5.6	4.6	7.0
203	17.2	13.7	20.5

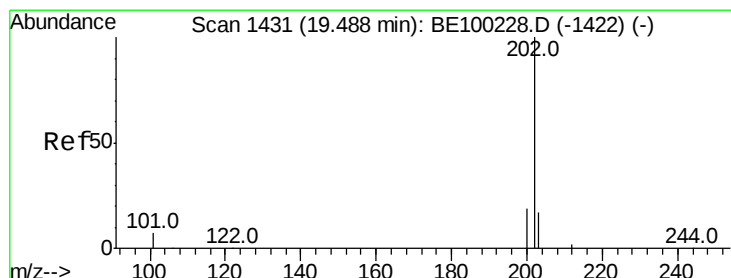
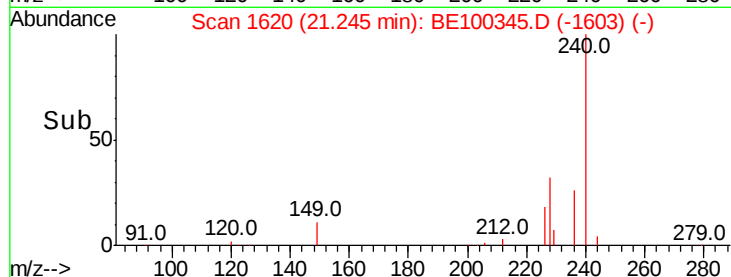
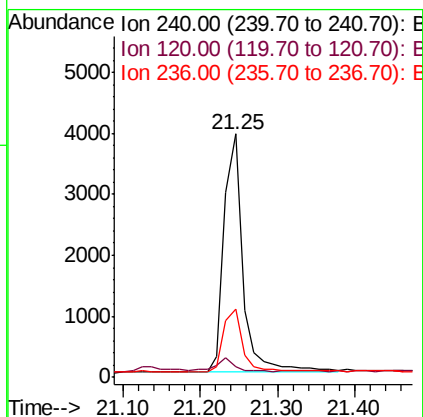
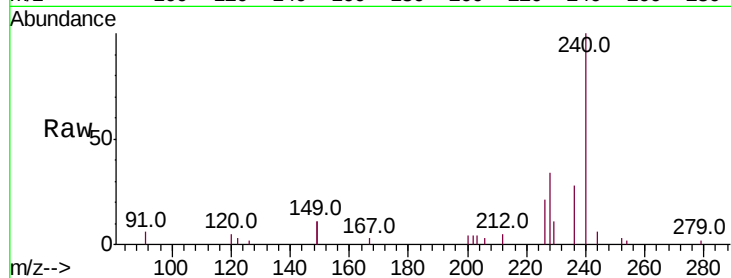




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 1620
 Delta R.T. 0.00 min
 Lab File: BE100345.D
 Acq: 4 Jul 2019 1:09

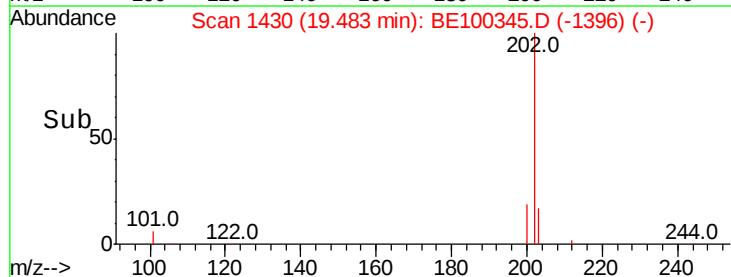
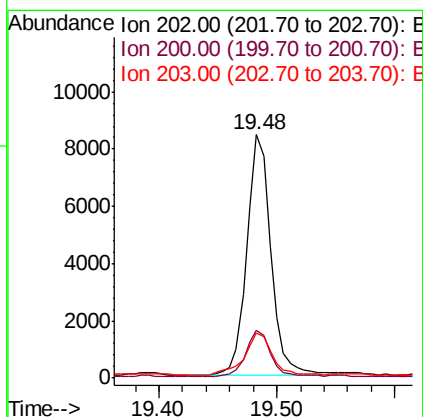
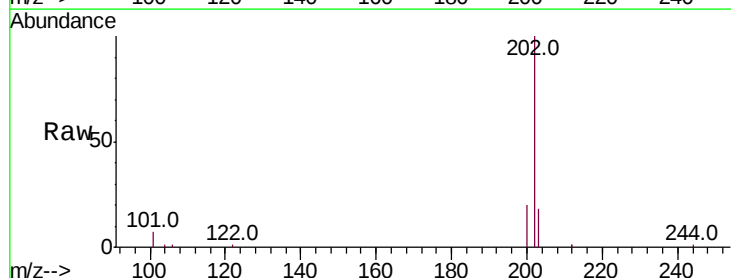
Instrument :
 BNA_E
 ClientSampleId :

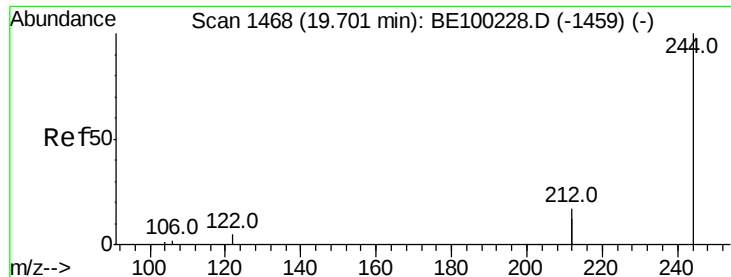
Tot Ion:240 Resp: 6706
 Ion Ratio Lower Upper
 240 100
 120 4.5 3.3 4.9
 236 28.1 22.6 34.0



#28
 Pyrene
 Concen: 0.672 ng
 RT: 19.48 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: BE100345.D
 Acq: 4 Jul 2019 1:09

Tgt Ion:202 Resp: 11929
 Ion Ratio Lower Upper
 202 100
 200 19.4 15.6 23.4
 203 20.1 14.0 21.0





#29

Terphenyl-d14

Concen: 0.374 ng

RT: 19.69 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

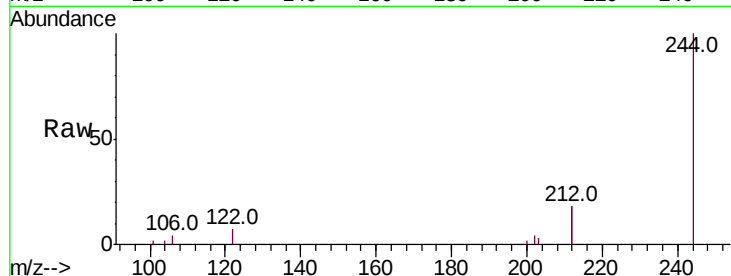
Tot Ion:244 Resp: 5195

Ion Ratio Lower Upper

244 100

212 36.5 27.3 40.9

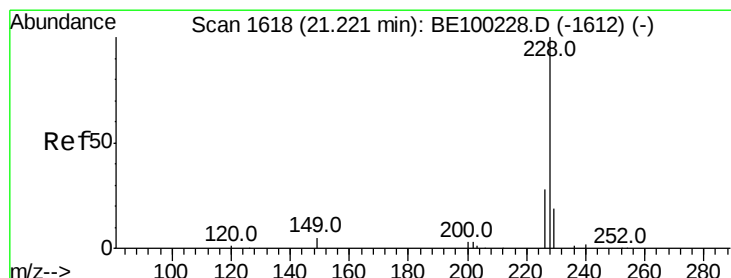
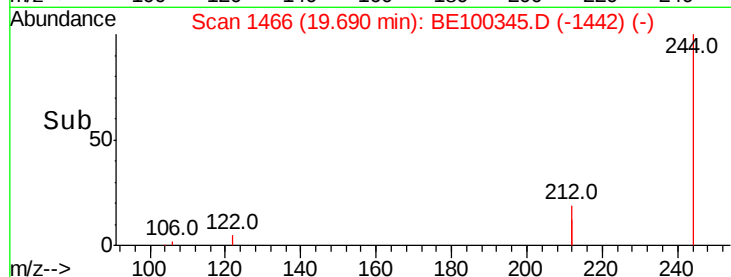
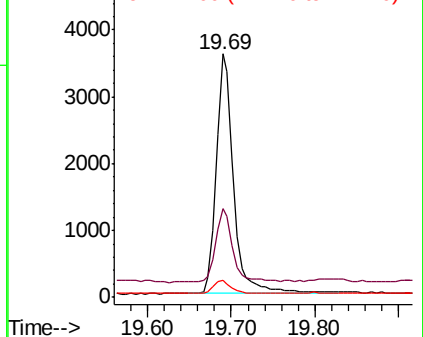
122 7.1 4.7 7.1



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: 0.349 ng

RT: 21.22 min Scan# 1618

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

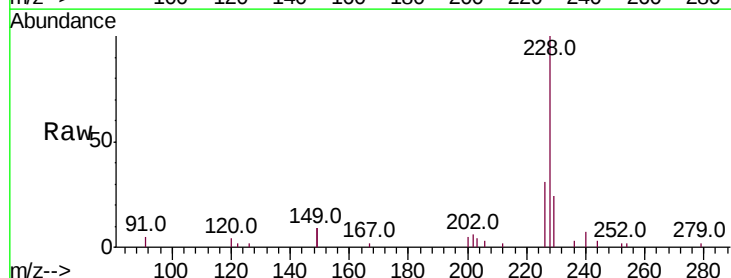
Tgt Ion:228 Resp: 7689

Ion Ratio Lower Upper

228 100

226 31.3 23.2 34.8

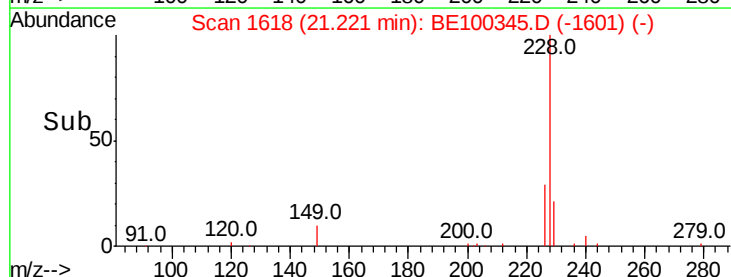
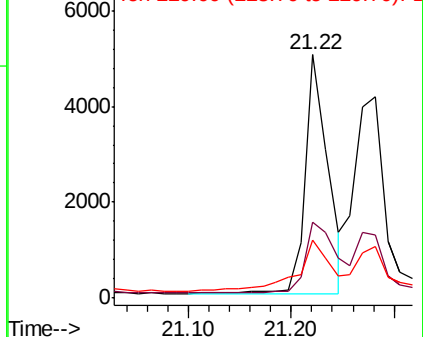
229 23.9 15.7 23.5#

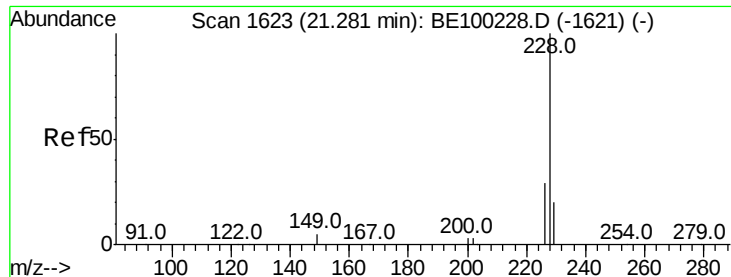


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.210 ng

RT: 21.22 min Scan# 1618

Delta R.T. -0.06 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

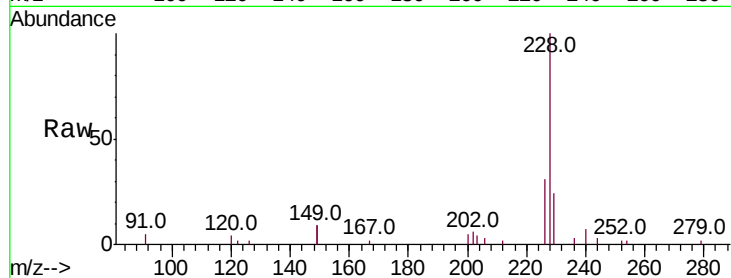
Instrument :

BNA_E

ClientSampleId :

Tot Ion:228 Resp: 4645

Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.9	35.9
229	23.9	16.5	24.7

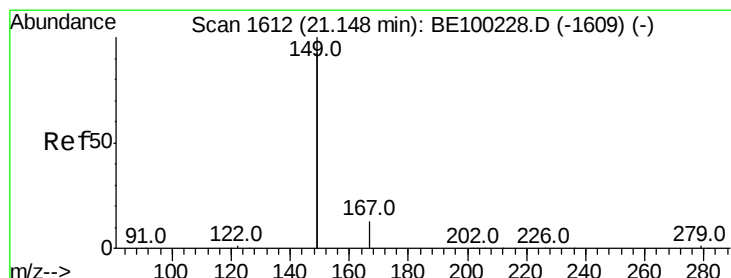
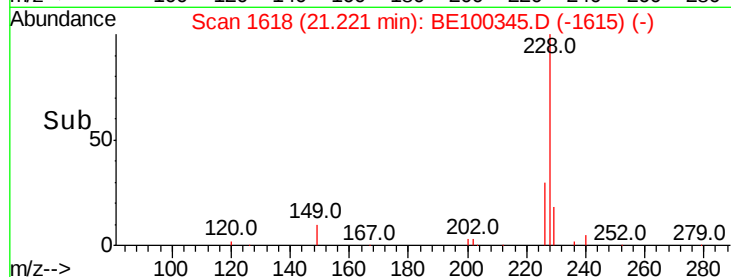
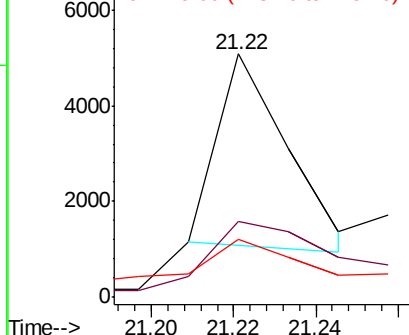


Abundance

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: 0.125 ng

RT: 21.15 min Scan# 1612

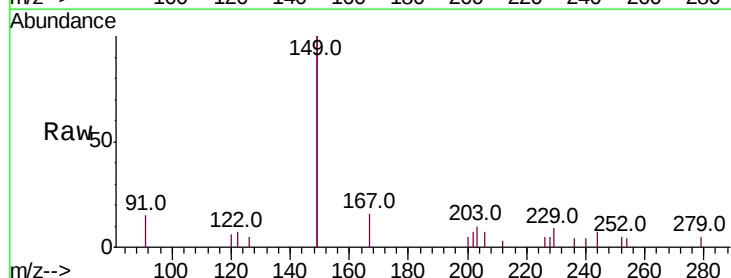
Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Tgt Ion:149 Resp: 5685

Ion	Ratio	Lower	Upper
149	100		
167	6.0	5.8	8.8
279	1.2	1.1	1.7

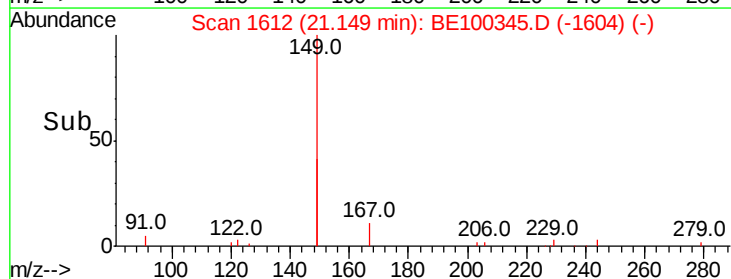
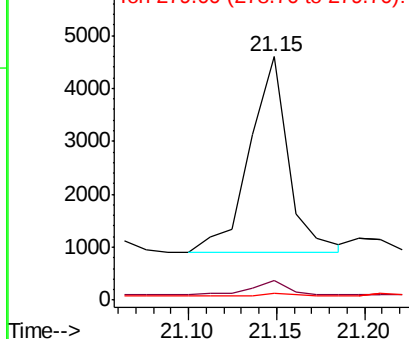


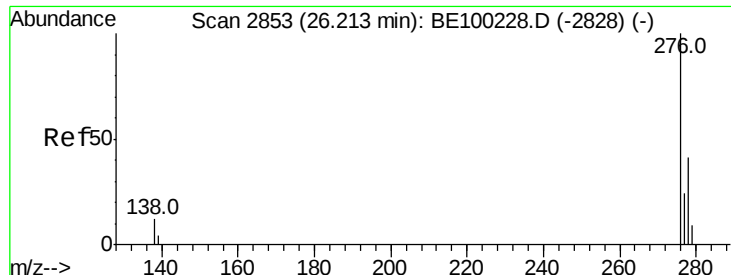
Abundance

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: 0.152 ng

RT: 26.22 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

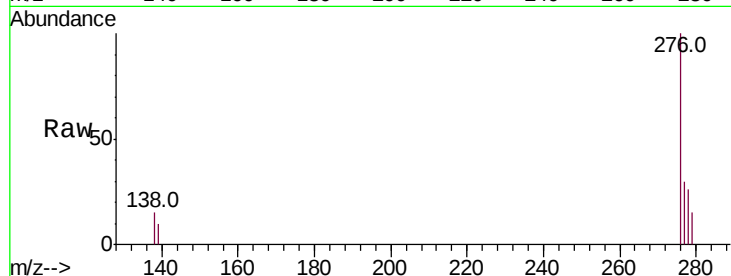
Tot Ion:276 Resp: 4456

Ion Ratio Lower Upper

276 100

138 9.7 9.4 14.0

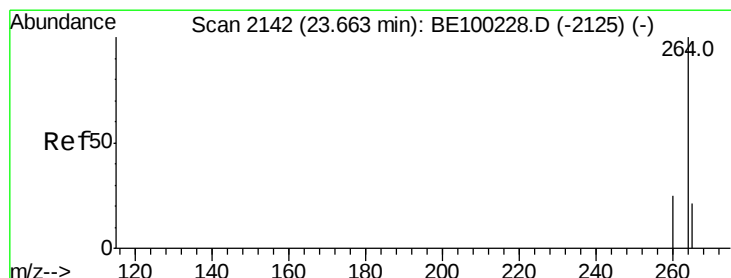
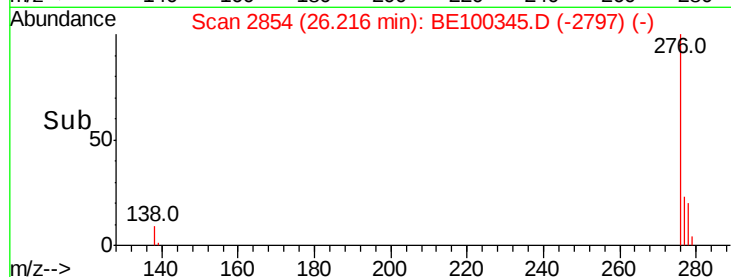
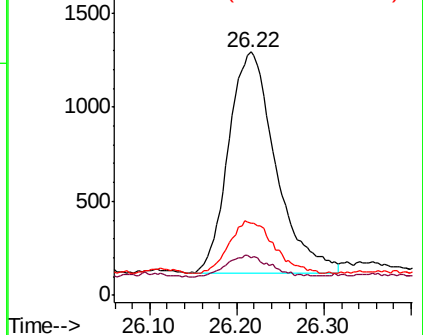
277 22.4 19.2 28.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.66 min Scan# 2142

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

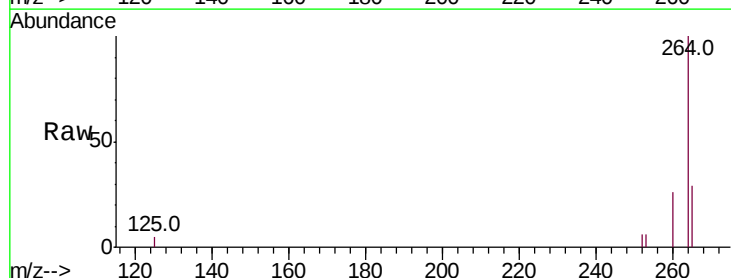
Tgt Ion:264 Resp: 8080

Ion Ratio Lower Upper

264 100

260 26.3 20.8 31.2

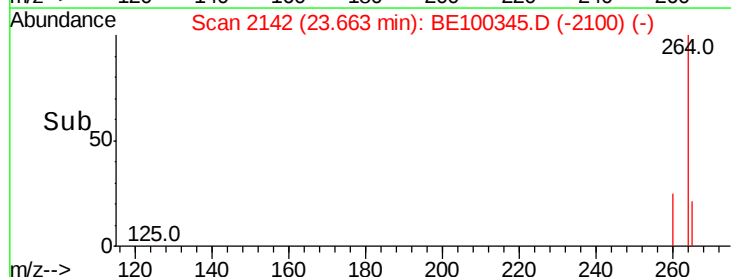
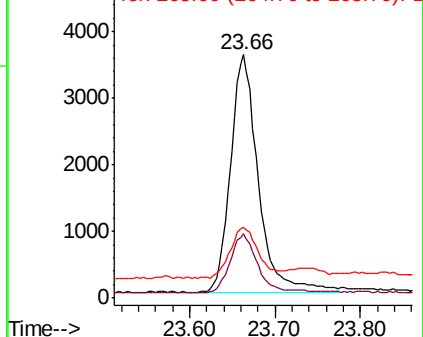
265 28.9 21.8 32.6

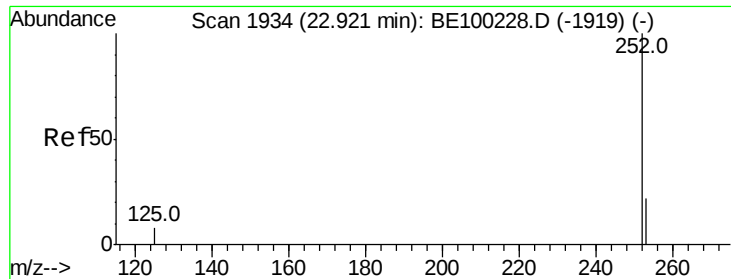


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

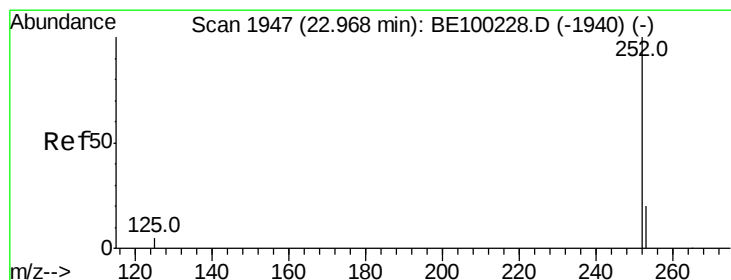
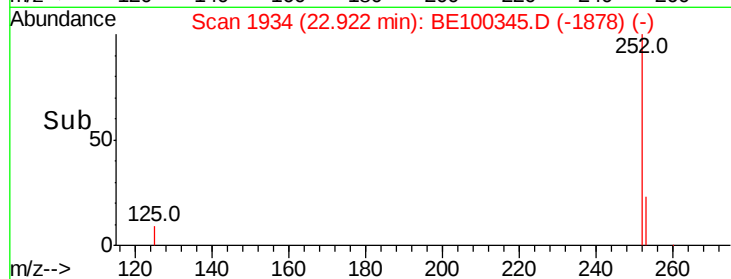
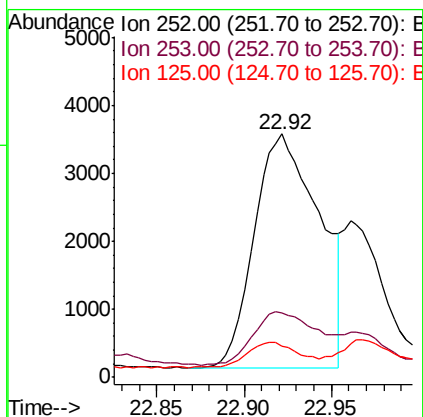
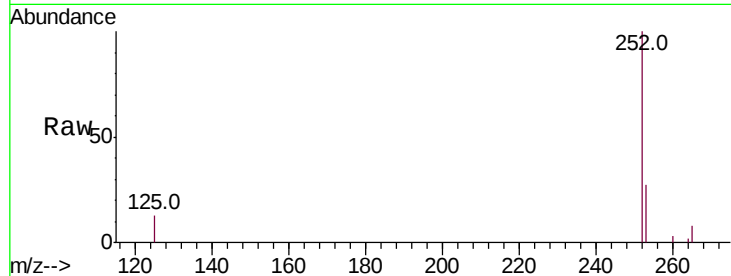




#35
Benzo(b)fluoranthene
Concen: 0.406 ng
RT: 22.92 min Scan# 1934
Delta R.T. 0.00 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

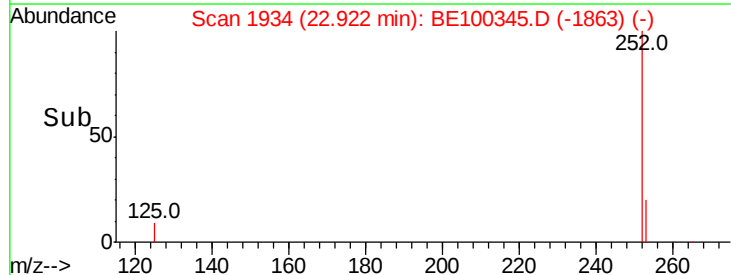
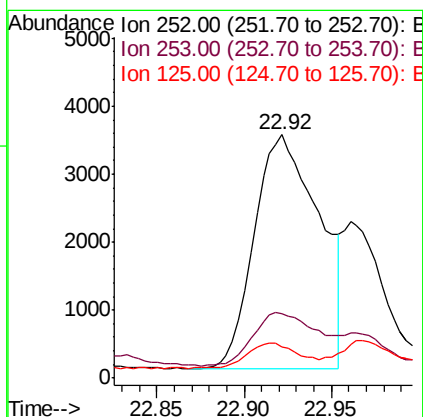
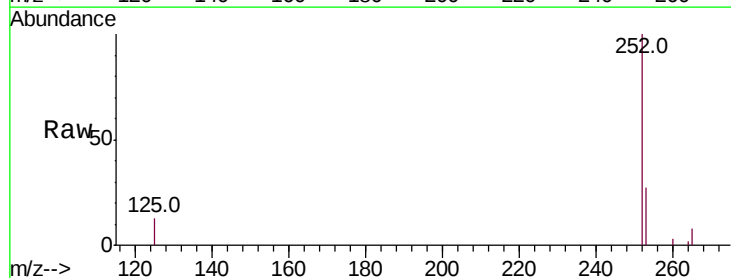
Instrument :
BNA_E
ClientSampleId :

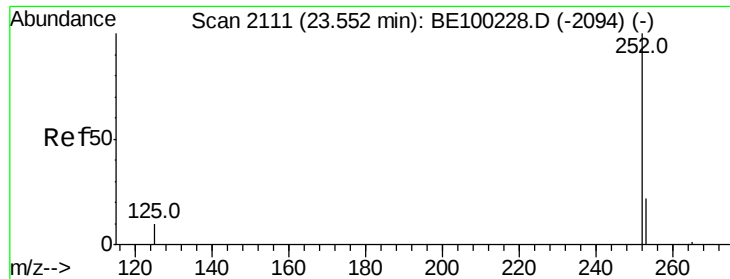
Tot Ion:252 Resp: 8890
Ion Ratio Lower Upper
252 100
253 26.7 19.2 28.8
125 12.9 7.4 11.0#



#36
Benzo(k)fluoranthene
Concen: 0.364 ng
RT: 22.92 min Scan# 1934
Delta R.T. -0.05 min
Lab File: BE100345.D
Acq: 4 Jul 2019 1:09

Tgt Ion:252 Resp: 8890
Ion Ratio Lower Upper
252 100
253 26.7 17.9 26.9
125 12.9 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.289 ng

RT: 23.55 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :

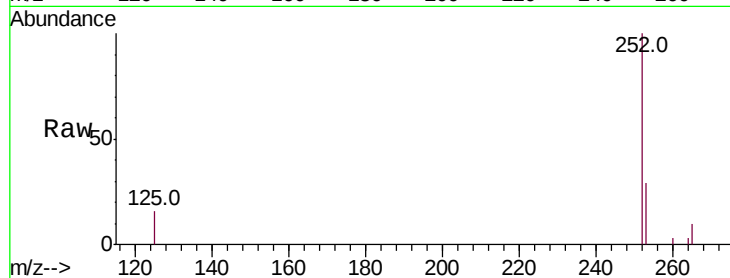
Tot Ion:252 Resp: 6336

Ion Ratio Lower Upper

252 100

253 29.3 19.6 29.4

125 16.4 9.0 13.6#

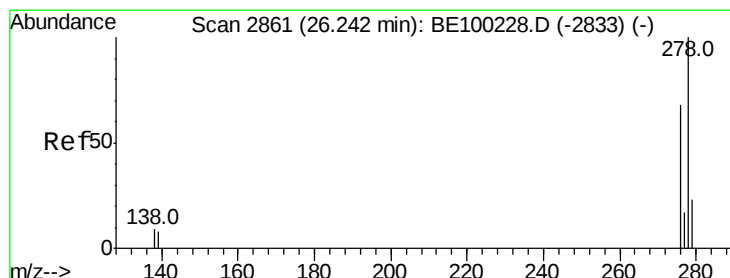
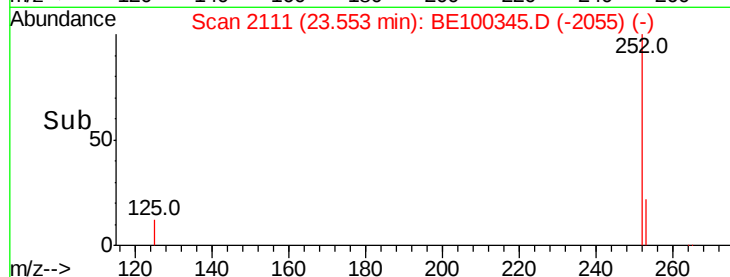
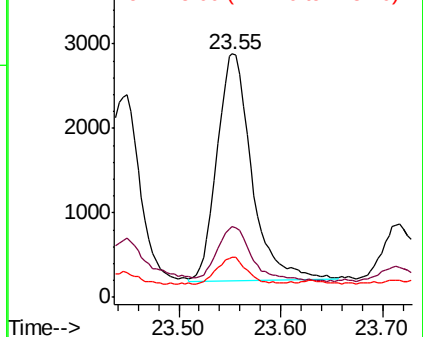


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.043 ng

RT: 26.23 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

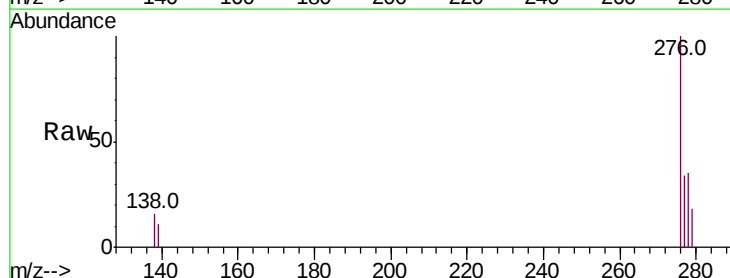
Tgt Ion:278 Resp: 991

Ion Ratio Lower Upper

278 100

139 32.7 8.2 12.2#

279 51.9 20.3 30.5#

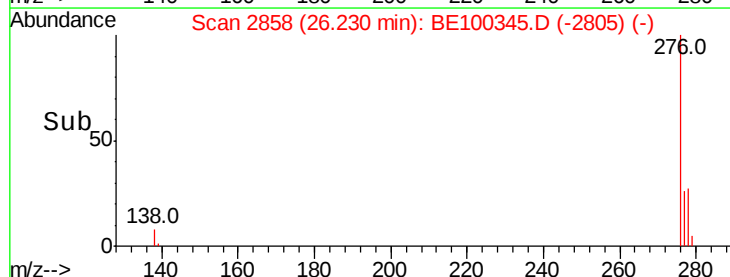
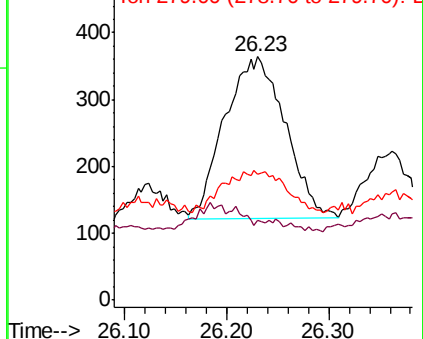


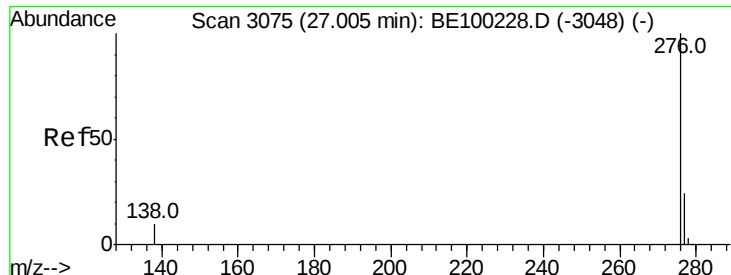
Abundance

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(a,h,i)perylene

Concen: 0.191 ng

RT: 27.00 min Scan# 3075

Delta R.T. -0.00 min

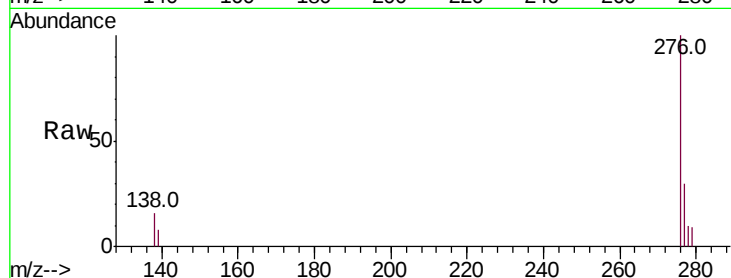
Lab File: BE100345.D

Acq: 4 Jul 2019 1:09

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 4503

Ion Ratio Lower Upper

276 100

277 29.6 20.2 30.2

138 15.7 9.0 13.6

