

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071619\
 Data File : BE100443.D
 Acq On : 16 Jul 2019 14:42
 Operator : HP/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jul 16 16:43:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 16 14:03:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	4825	0.40	ng	0.00
7) Naphthalene-d8	10.68	136	19444	0.40	ng	0.00
13) Acenaphthene-d10	14.51	164	10476	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	29272	0.40	ng	0.00
27) Chrysene-d12	21.39	240	27671	0.40	ng	0.00
34) Perylene-d12	23.88	264	27057	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.47	112	3632	0.40	ng	0.00
5) Phenol-d6	7.03	99	5461	0.40	ng	-0.01
8) Nitrobenzene-d5	9.03	82	4354	0.41	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	11120	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	900	0.38	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	17956	0.38	ng	0.00
25) Fluoranthene-d10	19.25	212	122711	0.35	ng	0.00
29) Terphenyl-d14	19.85	244	27456	0.40	ng	0.00

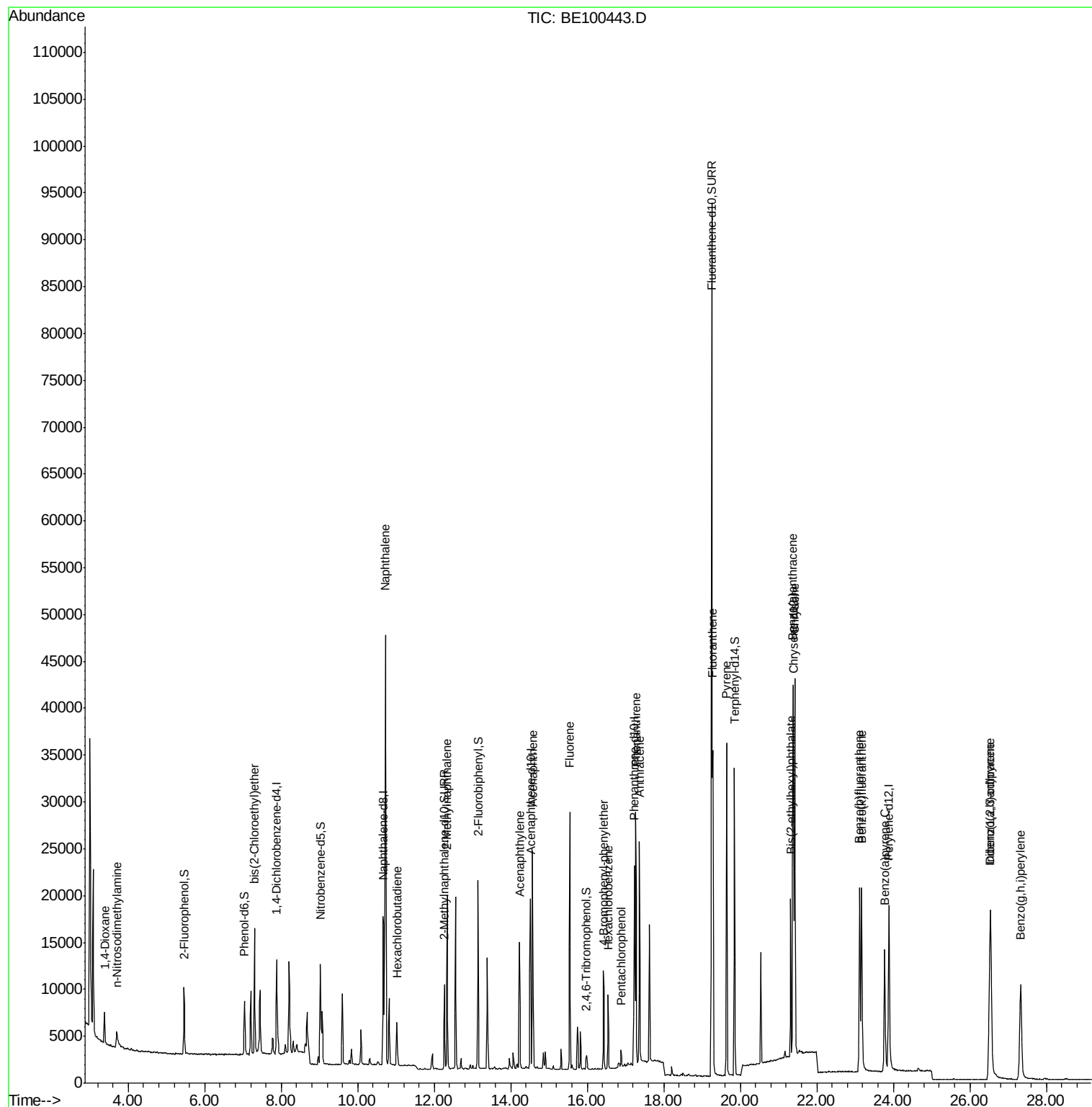
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.38	88	2915	0.390	ng	98
3) n-Nitrosodimethylamine	3.70	42	1754	0.419	ng	88
6) bis(2-Chloroethyl)ether	7.31	93	5542	0.404	ng	100
9) Naphthalene	10.72	128	74552	0.394	ng	100
10) Hexachlorobutadiene	11.03	225	3643	0.397	ng	97
12) 2-Methylnaphthalene	12.34	142	12235	0.386	ng	99
16) Acenaphthylene	14.23	152	14935	0.352	ng	99
17) Acenaphthene	14.57	154	11062	0.380	ng	98
18) Fluorene	15.54	166	14197	0.378	ng	100
20) 4-Bromophenyl-phenylether	16.44	248	5362	0.351	ng	# 58
21) Hexachlorobenzene	16.55	284	6416	0.359	ng	99
22) Pentachlorophenol	16.88	266	1027	0.427	ng	89
23) Phenanthrene	17.27	178	29330	0.376	ng	100
24) Anthracene	17.36	178	24543	0.381	ng	100
26) Fluoranthene	19.28	202	34114	0.344	ng	100
28) Pyrene	19.64	202	32985	0.407	ng	100
30) Benzo(a)anthracene	21.38	228	27723	0.369	ng	99
31) Chrysene	21.43	228	34633	0.388	ng	99
32) Bis(2-ethylhexyl)phthalate	21.32	149	17430	0.324	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.53	276	29821	0.376	ng	99
35) Benzo(b)fluoranthene	23.12	252	28587	0.346	ng	98
36) Benzo(k)fluoranthene	23.17	252	29667	0.339	ng	99
37) Benzo(a)pyrene	23.77	252	22289	0.328	ng	99
38) Dibenzo(a,h)anthracene	26.54	278	24944	0.344	ng	98
39) Benzo(g,h,i)perylene	27.33	276	26713	0.352	ng	99

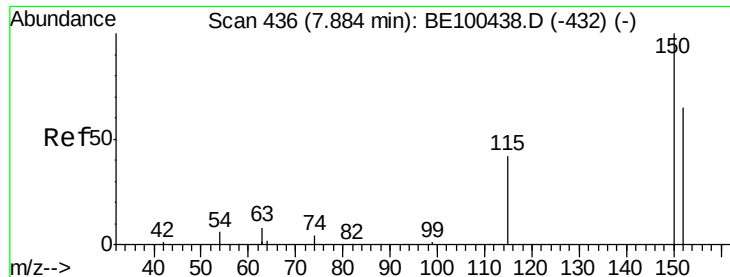
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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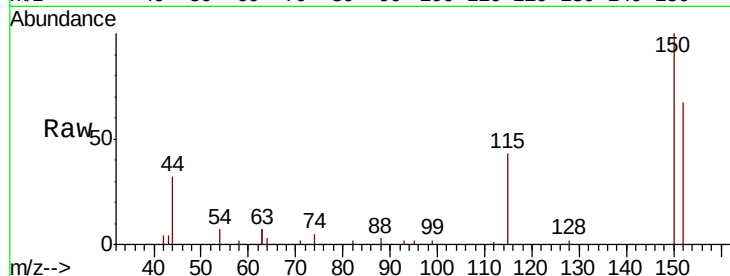


#1

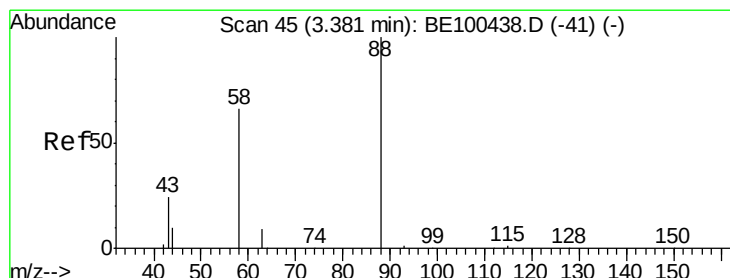
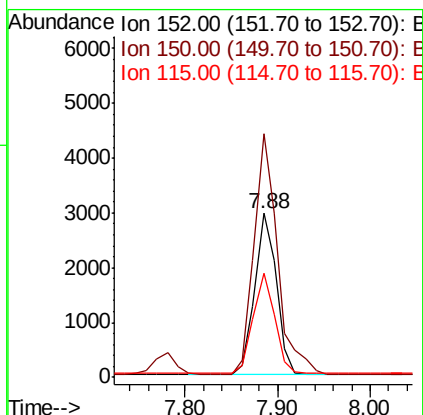
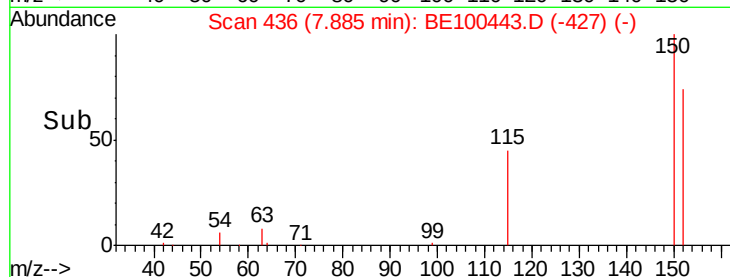
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.88 min Scan# 436
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 4825
Ion Ratio Lower Upper
152 100
150 148.3 121.7 182.5
115 63.1 52.4 78.6



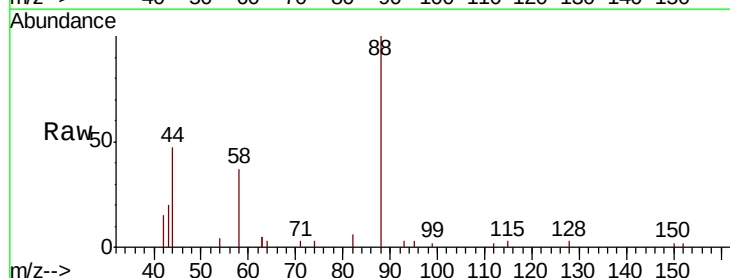
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



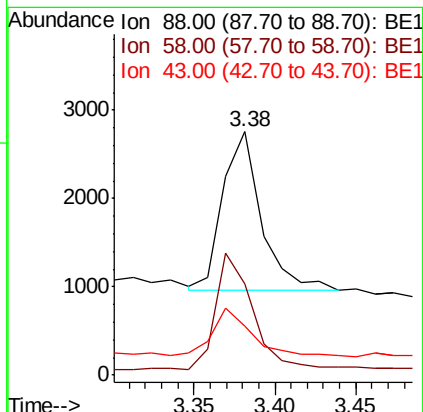
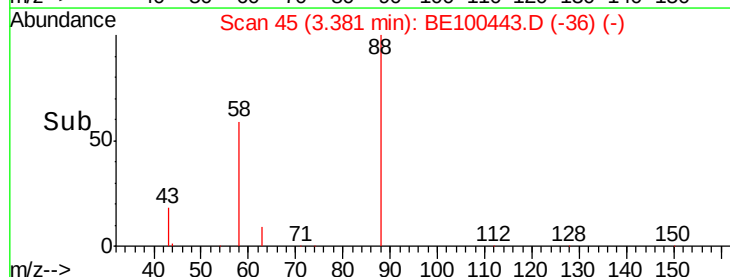
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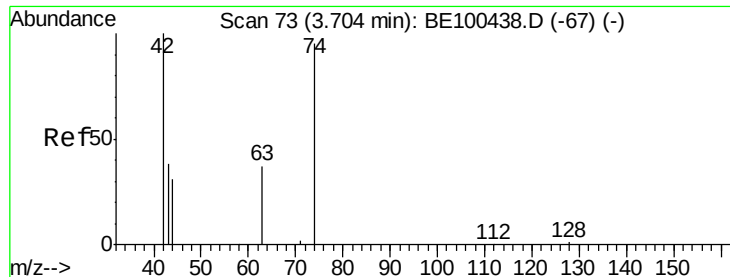
1,4-Dioxane
Concen: 0.390 ng
RT: 3.38 min Scan# 45
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Tgt Ion: 88 Resp: 2915
Ion Ratio Lower Upper
88 100
58 71.4 57.8 86.8
43 29.6 25.0 37.6



Abundance Ion 88.00 (87.70 to 88.70): BE1
Ion 58.00 (57.70 to 58.70): BE1
Ion 43.00 (42.70 to 43.70): BE1



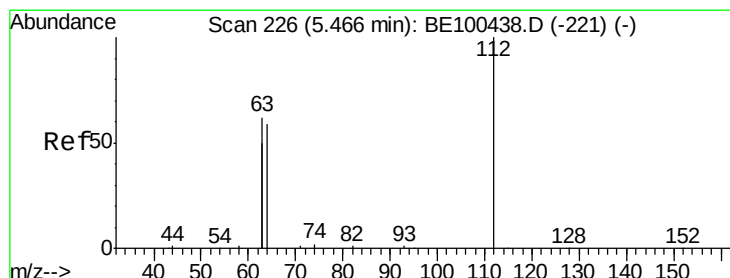
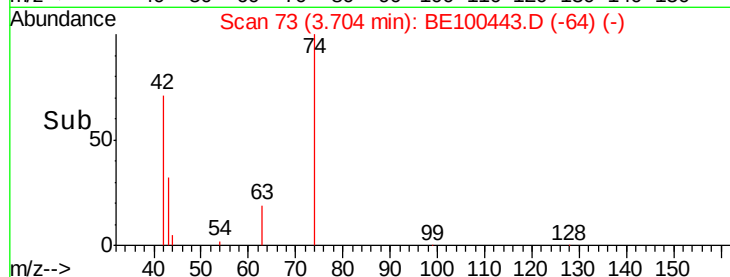
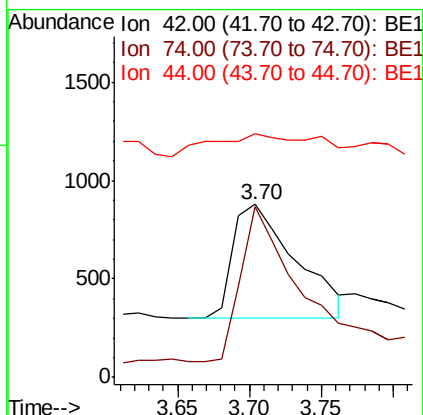
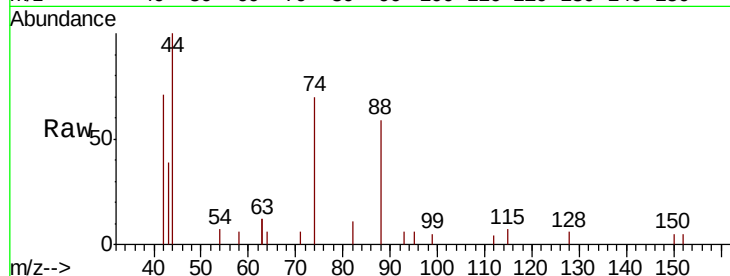


#3

n-Nitrosodimethylamine
 Concen: 0.419 ng
 RT: 3.70 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

Instrument :
 BNA_E
 ClientSampleId :

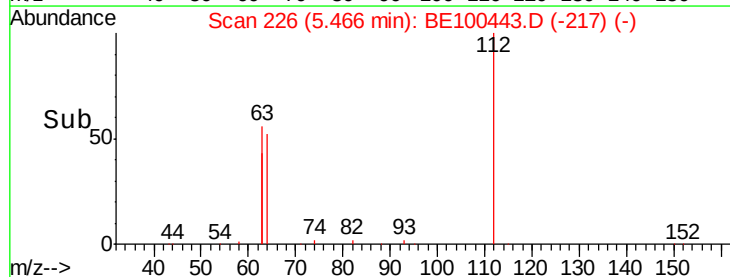
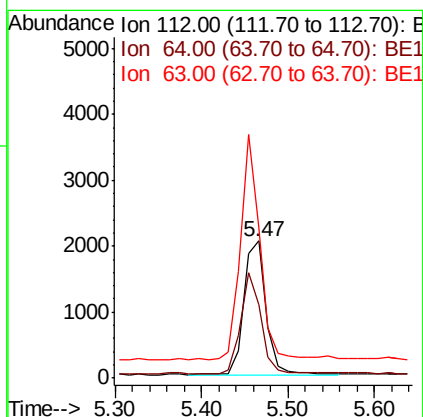
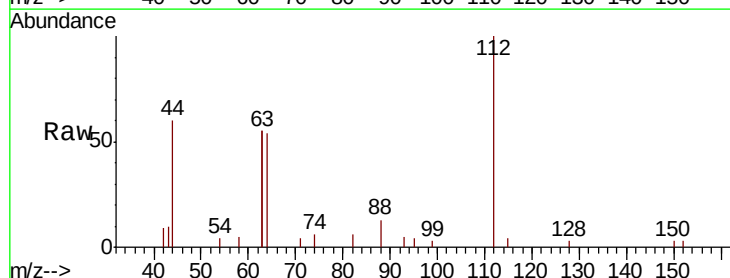
Tot Ion: 42 Resp: 1754
 Ion Ratio Lower Upper
 42 100
 74 120.0 85.3 127.9
 44 31.3 21.8 32.8

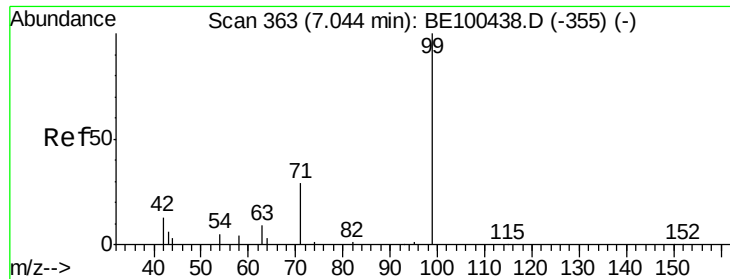


#4

2-Fluorophenol
 Concen: 0.396 ng
 RT: 5.47 min Scan# 226
 Delta R.T. 0.00 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

Tgt Ion: 112 Resp: 3632
 Ion Ratio Lower Upper
 112 100
 64 69.2 55.0 82.4
 63 144.4 114.8 172.2





#5

Phenol-d6

Concen: 0.403 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

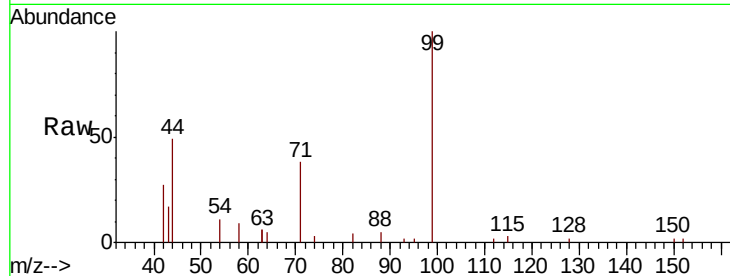
Tot Ion: 99 Resp: 5461

Ion Ratio Lower Upper

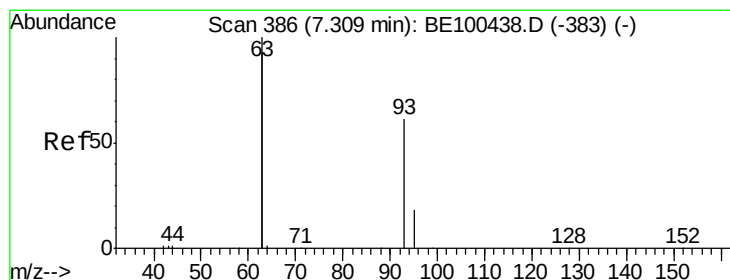
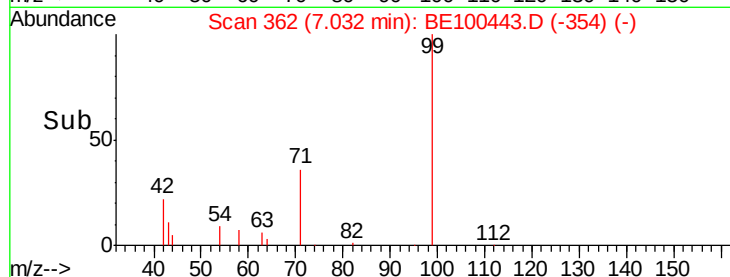
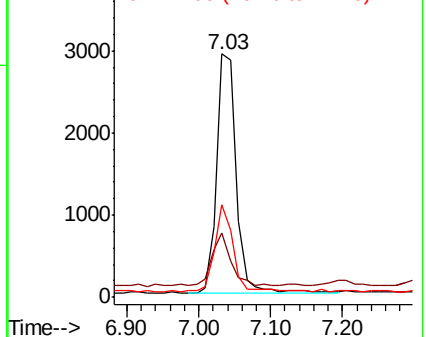
99 100

42 21.6 17.4 26.2

71 34.4 28.2 42.4



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: 0.404 ng

RT: 7.31 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

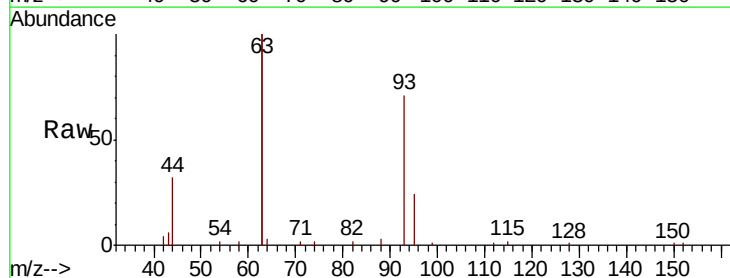
Tgt Ion: 93 Resp: 5542

Ion Ratio Lower Upper

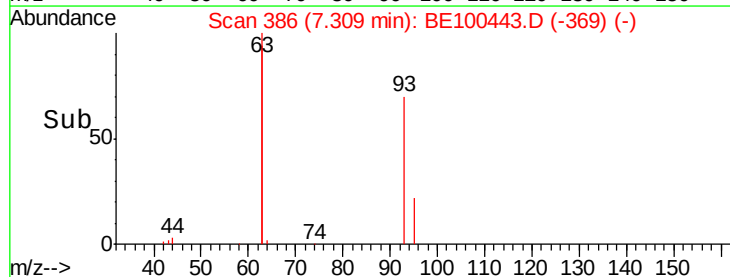
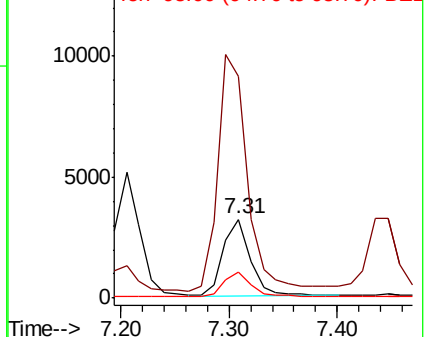
93 100

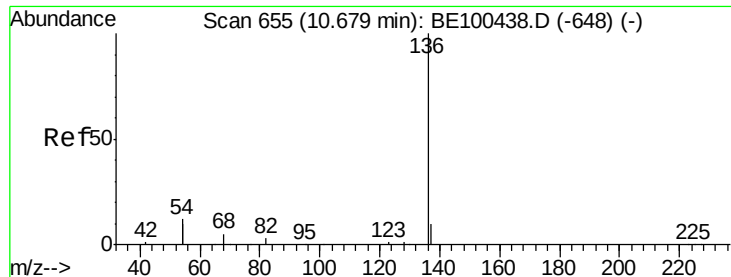
63 334.3 266.9 400.3

95 32.5 26.8 40.2



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: 10.68 min Scan# 655

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 19444

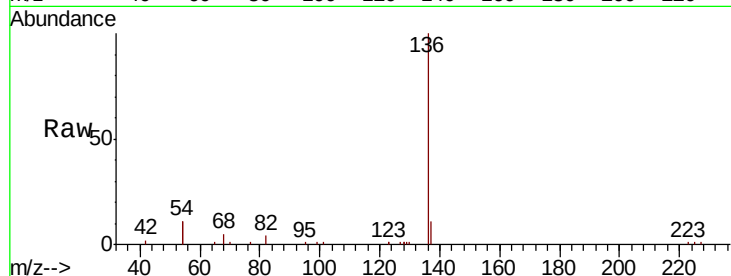
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 22.1 19.6 29.4

68 4.9 4.4 6.6

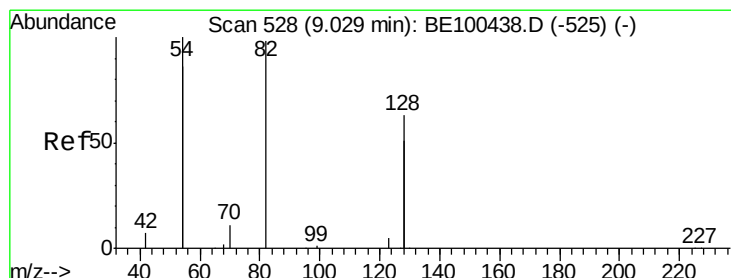
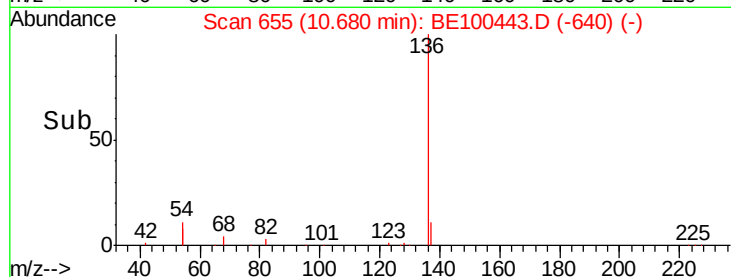
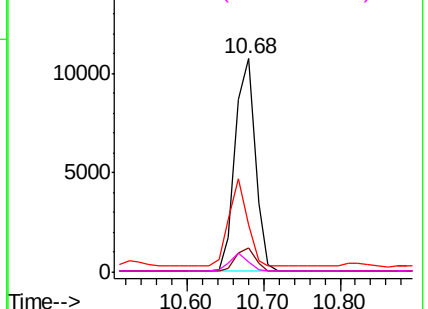


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.406 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

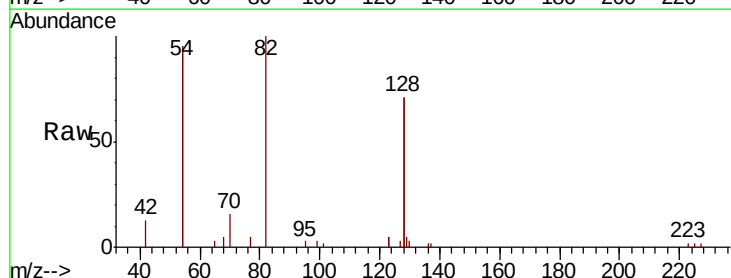
Tgt Ion: 82 Resp: 4354

Ion Ratio Lower Upper

82 100

128 141.7 97.9 146.9

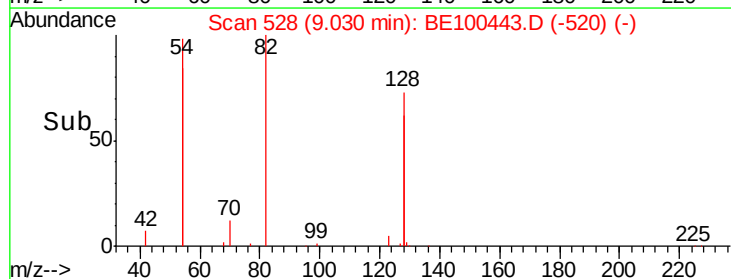
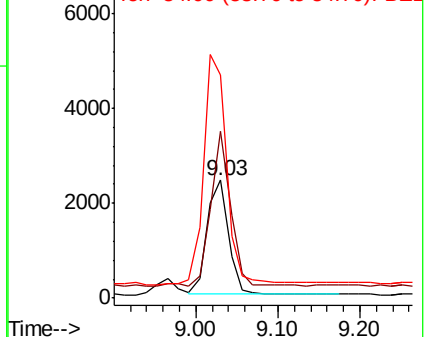
54 189.2 155.0 232.6

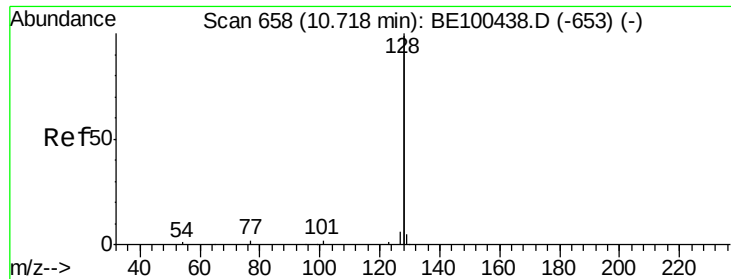


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.394 ng

RT: 10.72 min Scan# 658

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampled :

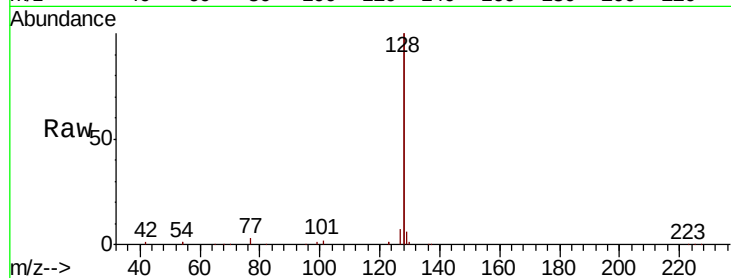
Tot Ion:128 Resp: 74552

Ion Ratio Lower Upper

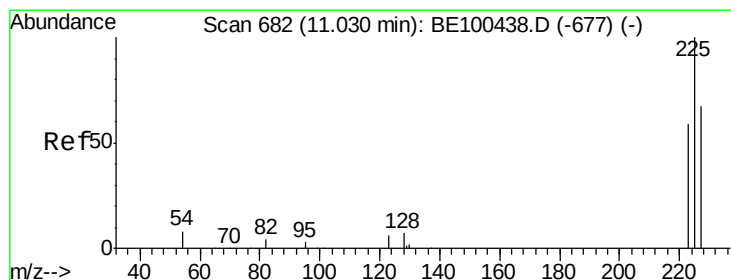
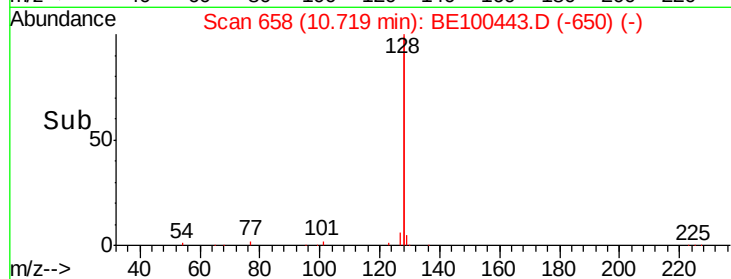
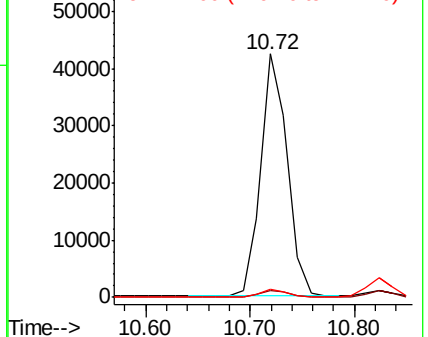
128 100

129 2.9 2.2 3.4

127 3.3 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



#10

Hexachlorobutadiene

Concen: 0.397 ng

RT: 11.03 min Scan# 682

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

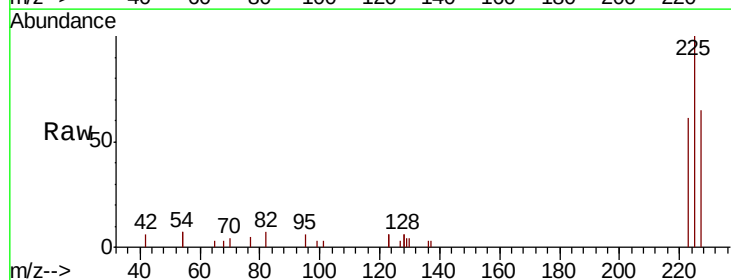
Tgt Ion:225 Resp: 3643

Ion Ratio Lower Upper

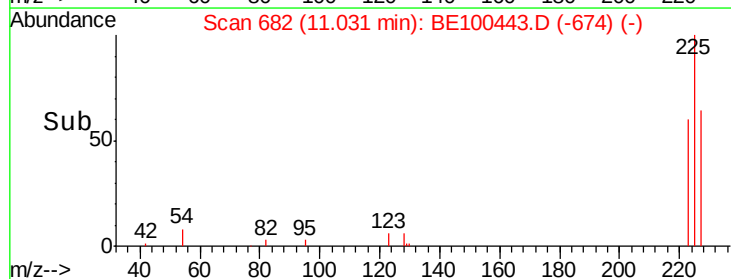
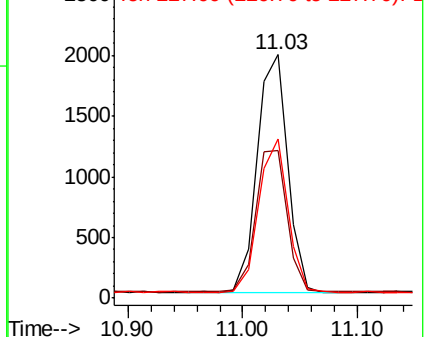
225 100

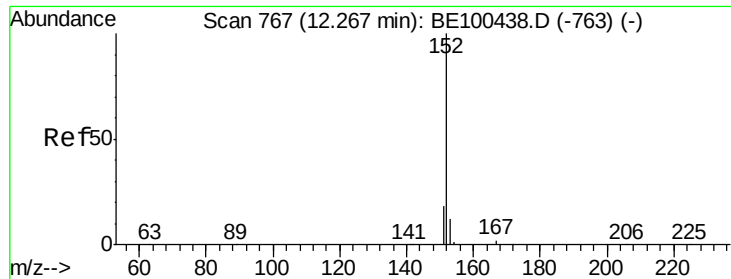
223 61.1 49.8 74.8

227 61.6 52.3 78.5



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

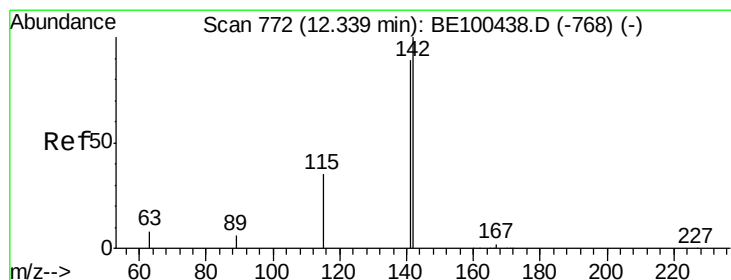
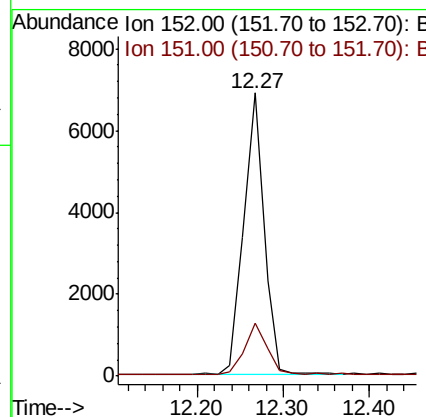
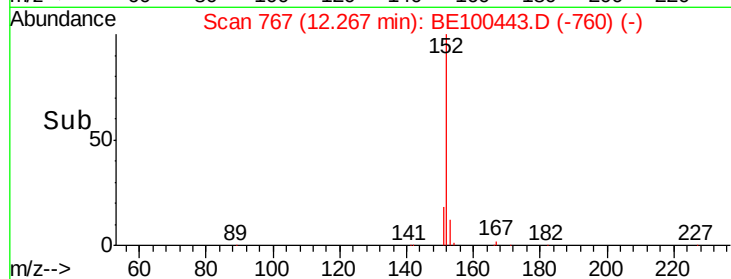
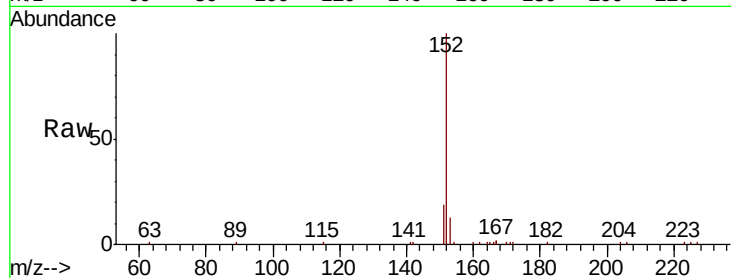




#11
 2-Methylnaphthalene-d10
 Concen: 0.378 ng
 RT: 12.27 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

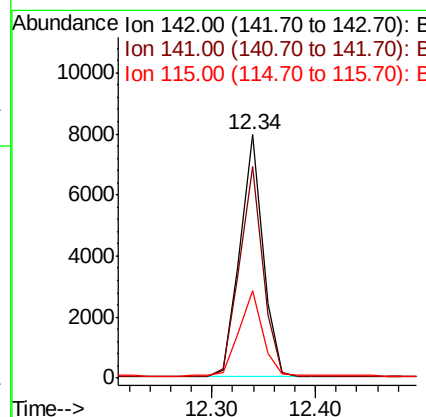
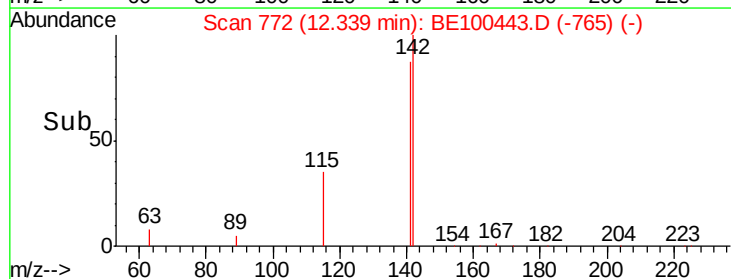
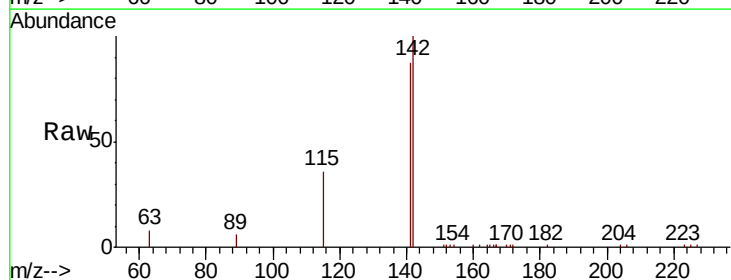
Instrument :
 BNA_E
 ClientSampleId :

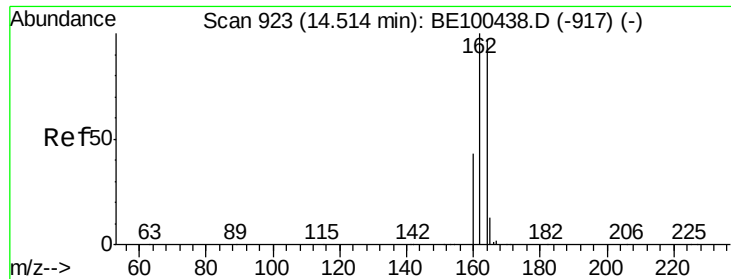
Tot Ion:152 Resp: 11120
 Ion Ratio Lower Upper
 152 100
 151 19.2 16.0 24.0



#12
 2-Methylnaphthalene
 Concen: 0.386 ng
 RT: 12.34 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

Tgt Ion:142 Resp: 12235
 Ion Ratio Lower Upper
 142 100
 141 86.9 70.9 106.3
 115 35.8 29.0 43.4

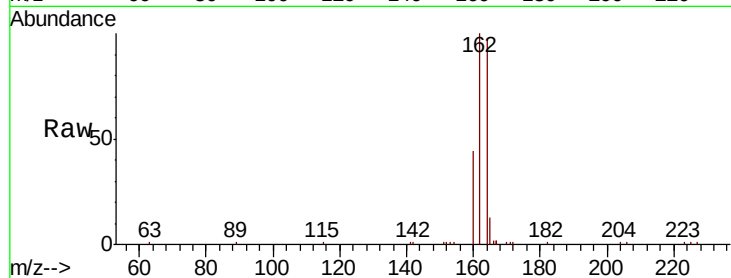




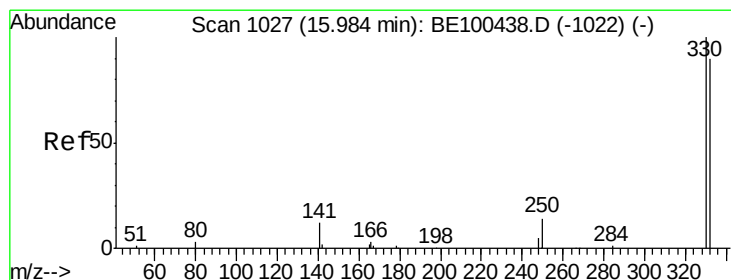
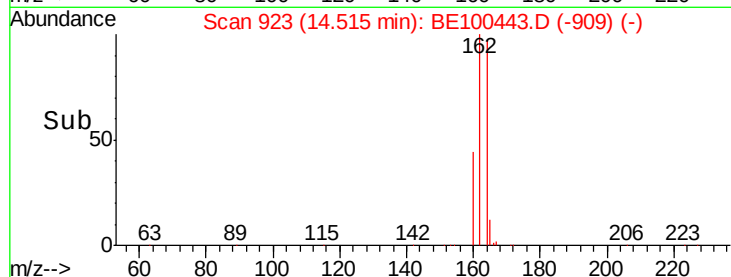
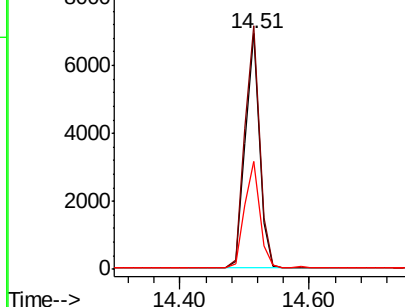
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.51 min Scan# 923
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 10476
Ion Ratio Lower Upper
164 100
162 103.4 82.6 124.0
160 45.7 35.6 53.4

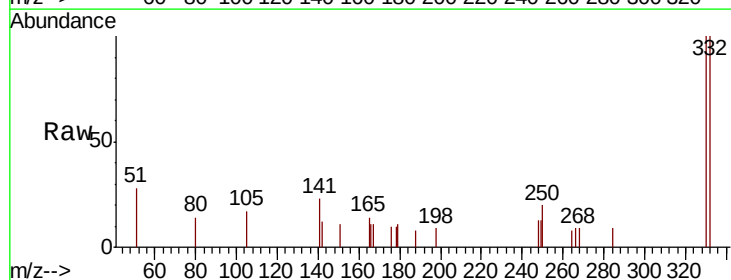


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

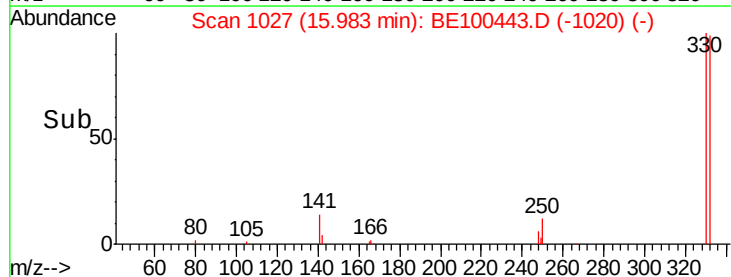
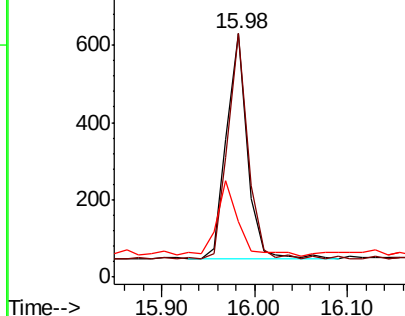


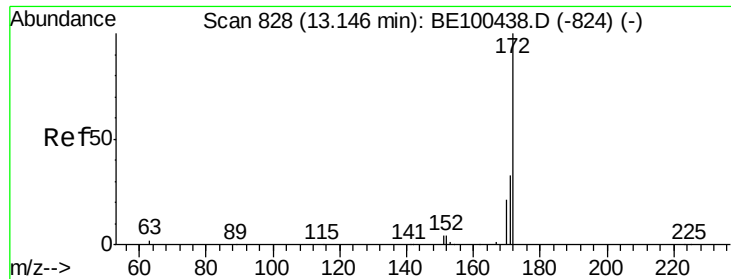
#14
2,4,6-Tribromophenol
Concen: 0.380 ng
RT: 15.98 min Scan# 1027
Delta R.T. -0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Tgt Ion:330 Resp: 900
Ion Ratio Lower Upper
330 100
332 97.0 76.3 114.5
141 35.6 28.1 42.1



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

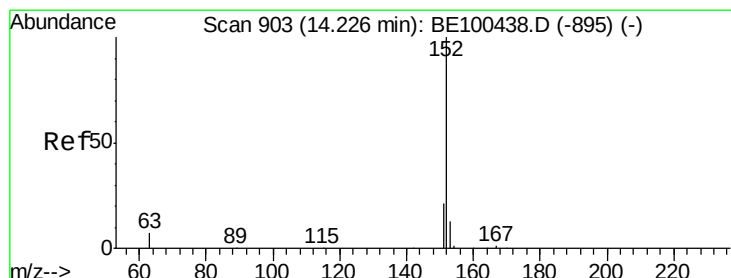
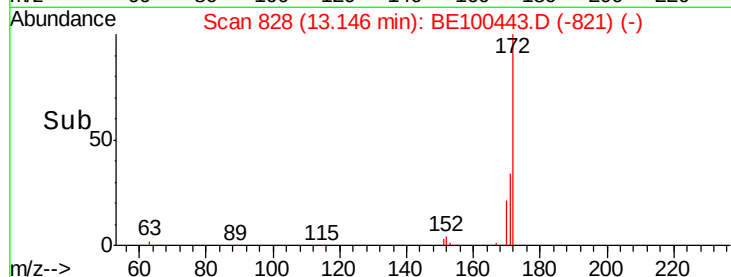
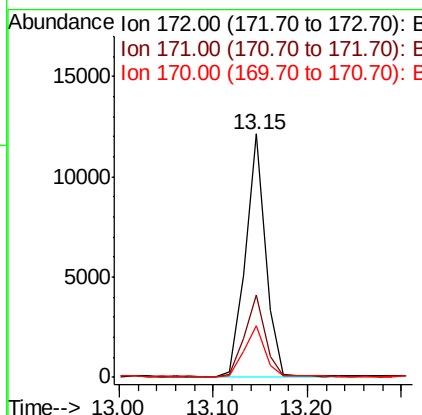
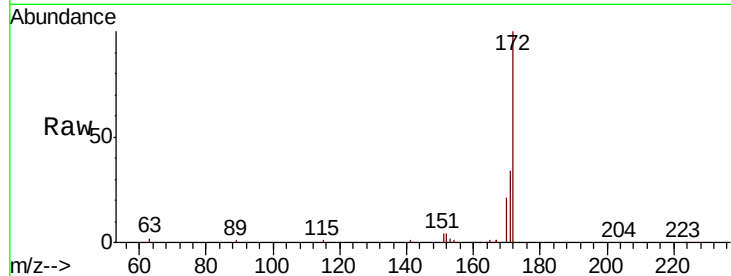




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 13.15 min Scan# 828
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

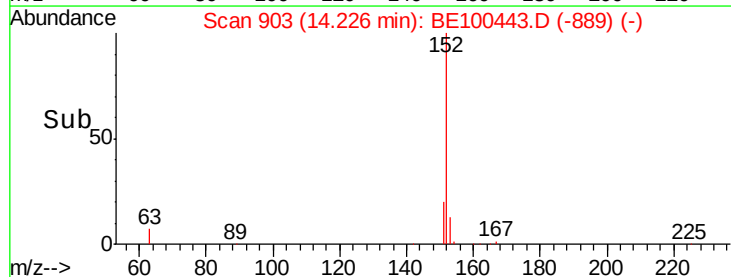
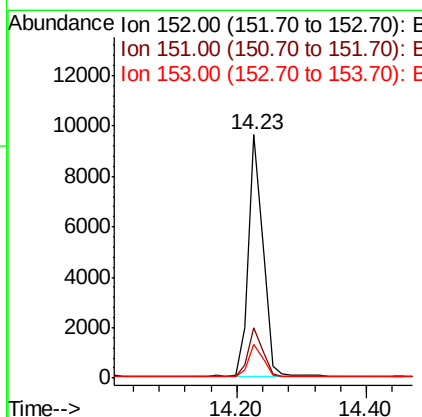
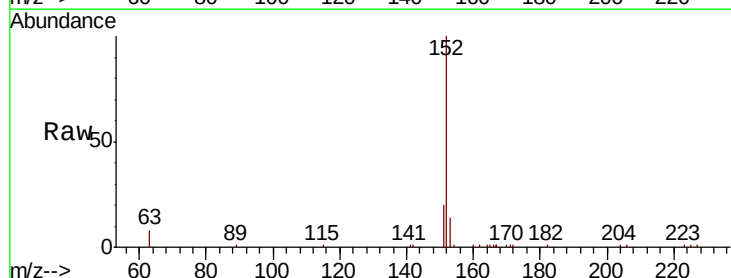
Instrument :
BNA_E
ClientSampleId :

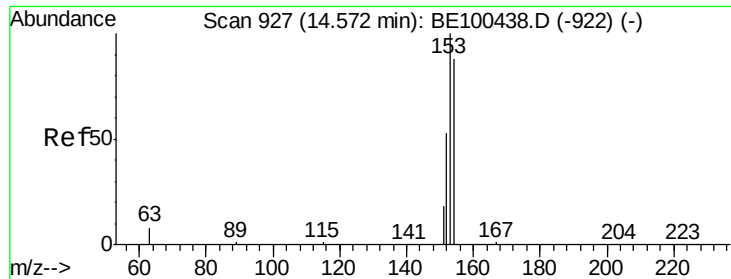
Tot Ion:172 Resp: 17956
Ion Ratio Lower Upper
172 100
171 33.9 27.0 40.4
170 21.4 17.4 26.0



#16
Acenaphthylene
Concen: 0.352 ng
RT: 14.23 min Scan# 903
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Tgt Ion:152 Resp: 14935
Ion Ratio Lower Upper
152 100
151 20.3 15.8 23.8
153 13.6 10.4 15.6

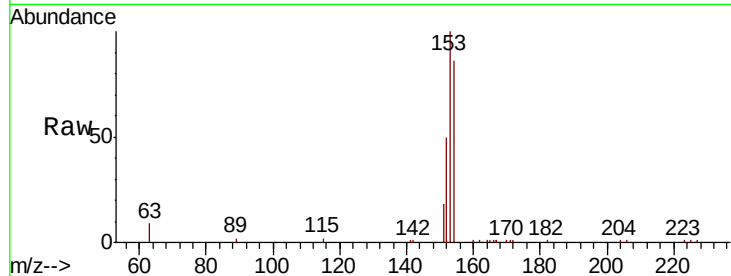




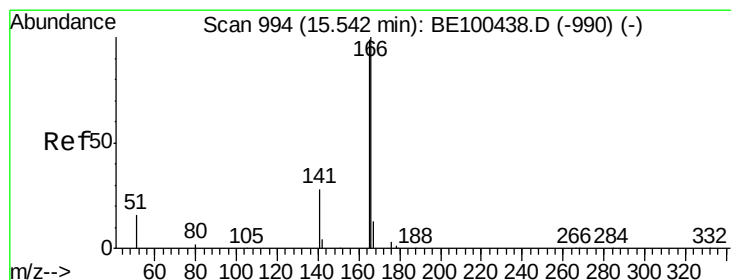
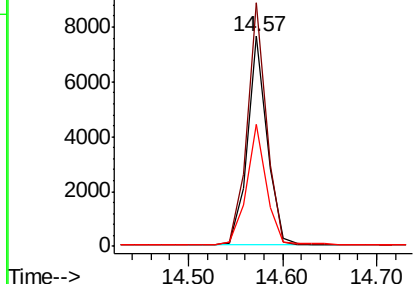
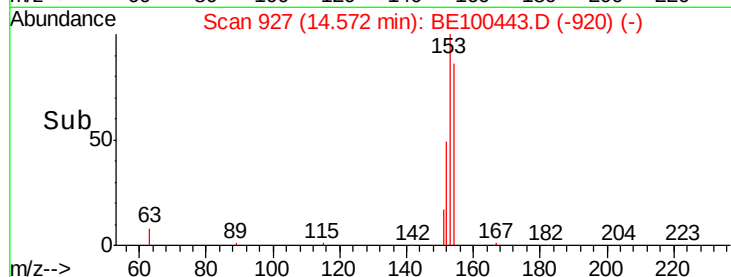
#17
Acenaphthene
Concen: 0.380 ng
RT: 14.57 min Scan# 927
Delta R.T. 0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Instrument :
BNA_E
ClientSampleId :

Tot Ion:154 Resp: 11062
Ion Ratio Lower Upper
154 100
153 114.1 91.0 136.4
152 58.0 49.4 74.2

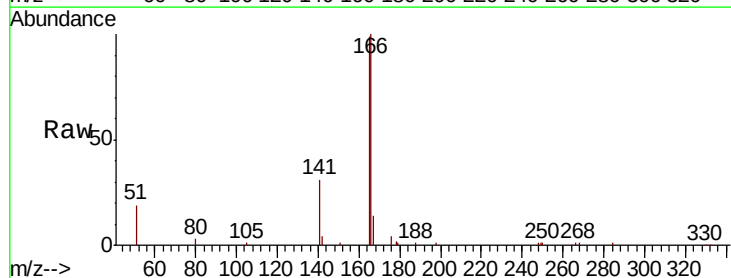


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

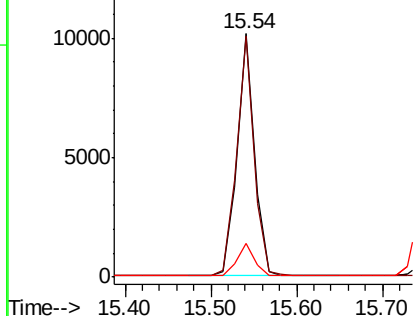
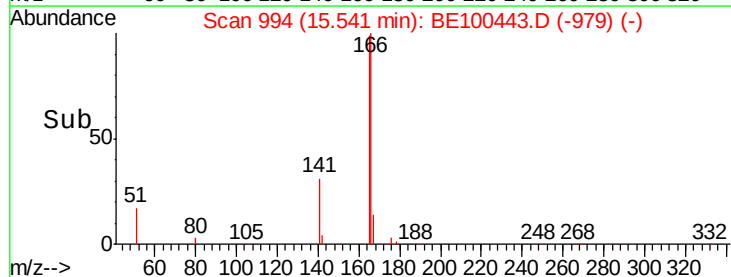


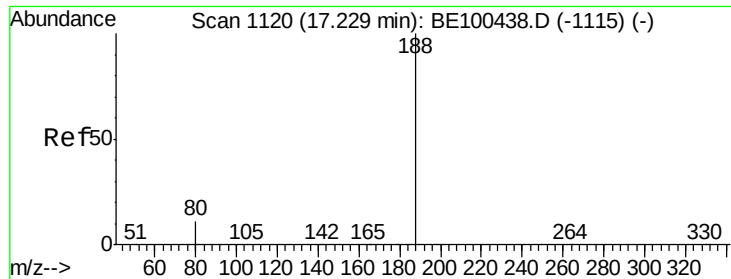
#18
Fluorene
Concen: 0.378 ng
RT: 15.54 min Scan# 994
Delta R.T. -0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Tgt Ion:166 Resp: 14197
Ion Ratio Lower Upper
166 100
165 99.2 79.6 119.4
167 13.6 10.6 15.8



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

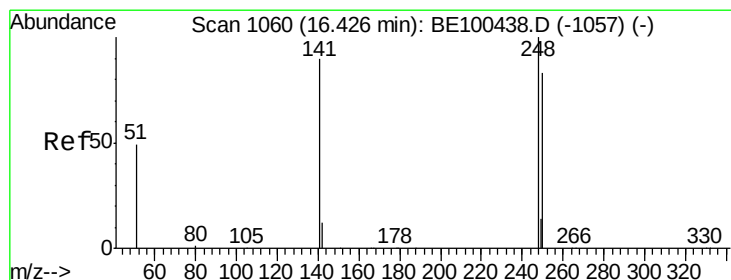
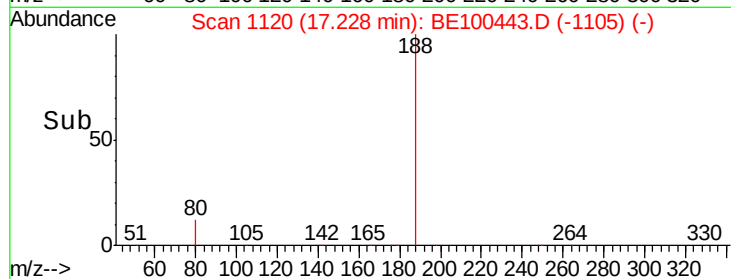
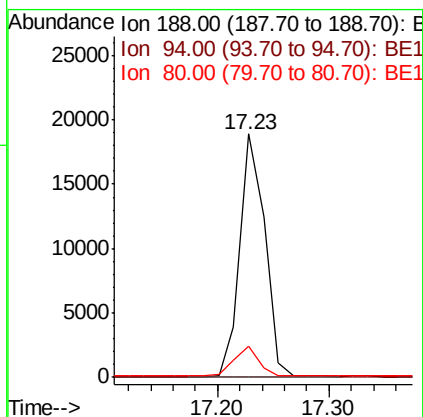
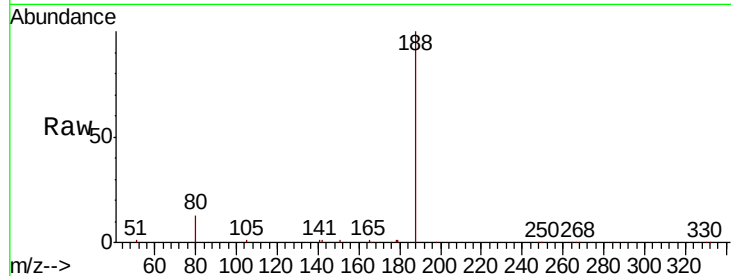




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.23 min Scan# 1120
Delta R.T. -0.00 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

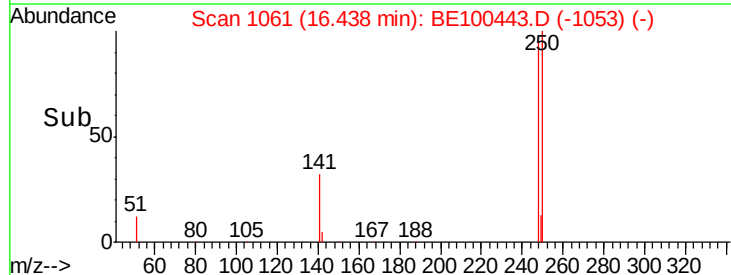
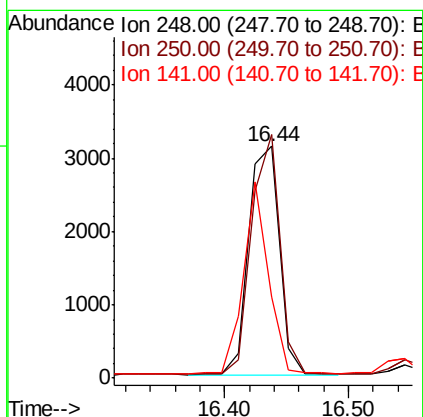
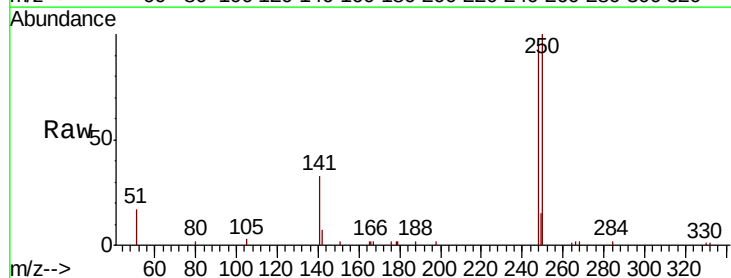
Instrument :
BNA_E
ClientSampleId :

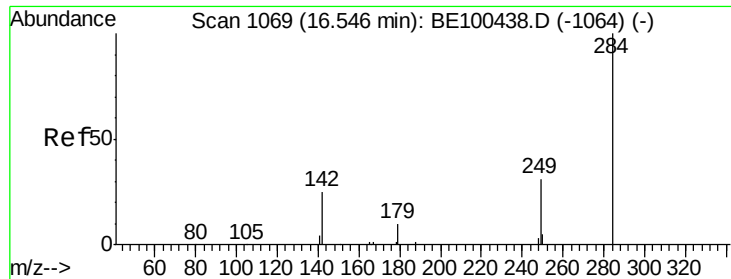
Tot Ion:188 Resp: 29272
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.6 9.2 13.8



#20
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 16.44 min Scan# 1061
Delta R.T. 0.01 min
Lab File: BE100443.D
Acq: 16 Jul 2019 14:42

Tgt Ion:248 Resp: 5362
Ion Ratio Lower Upper
248 100
250 105.1 67.1 100.7#
141 34.7 72.2 108.2#





#21

Hexachlorobenzene

Concen: 0.359 ng

RT: 16.55 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

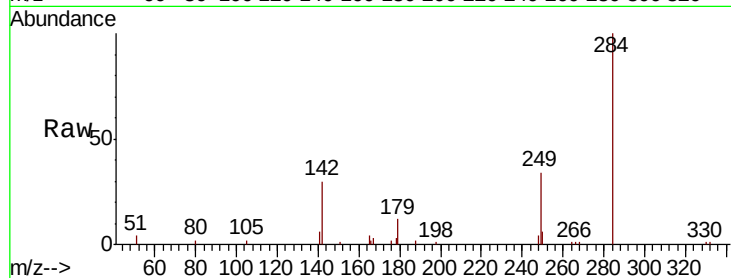
Tot Ion:284 Resp: 6416

Ion Ratio Lower Upper

284 100

142 31.1 25.6 38.4

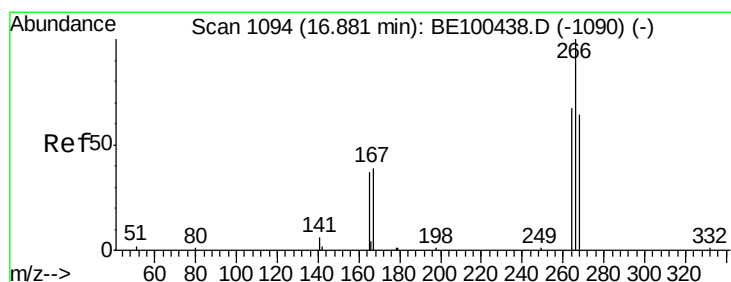
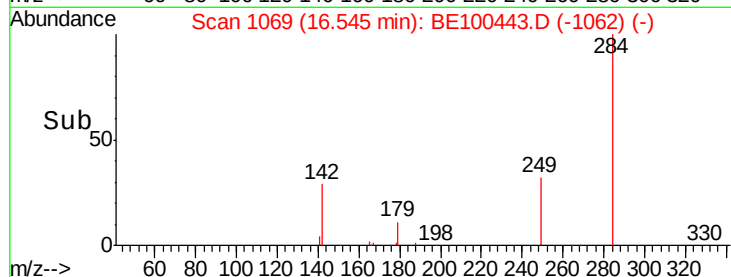
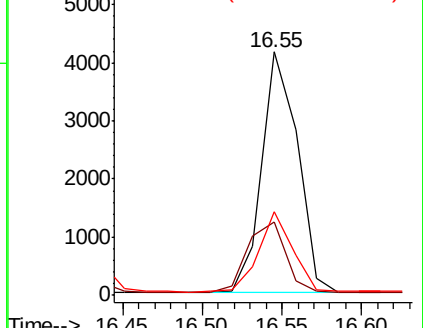
249 31.3 25.1 37.7



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.427 ng

RT: 16.88 min Scan# 1094

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

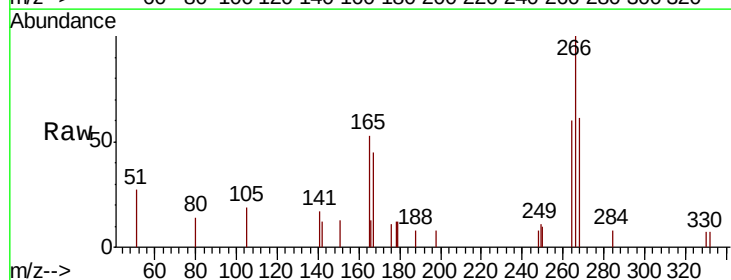
Tgt Ion:266 Resp: 1027

Ion Ratio Lower Upper

266 100

264 60.0 56.2 84.2

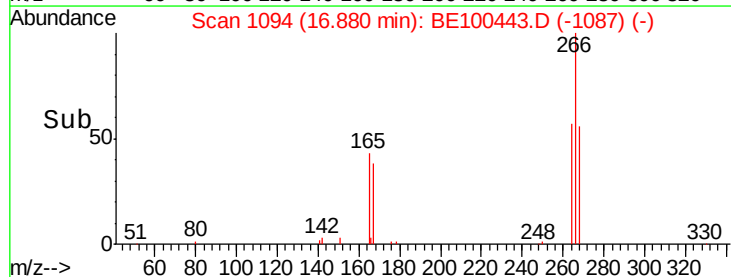
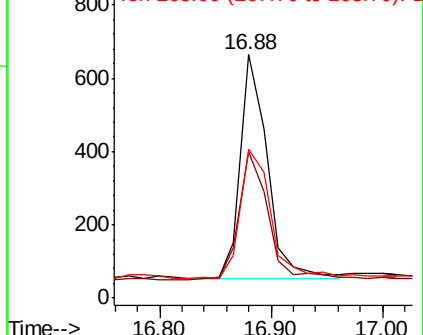
268 61.2 54.9 82.3

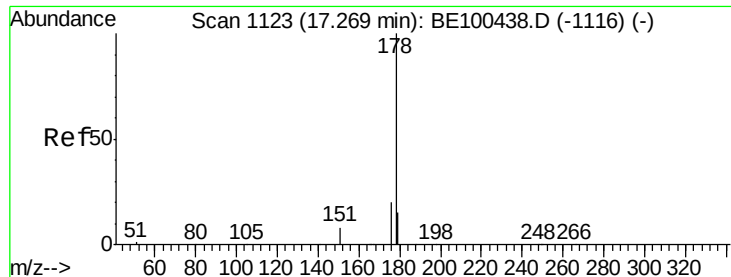


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.376 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampled :

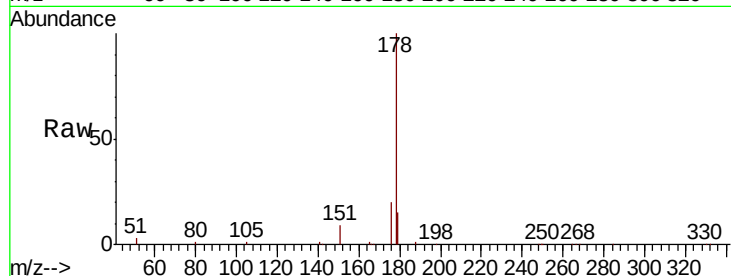
Tot Ion:178 Resp: 29330

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

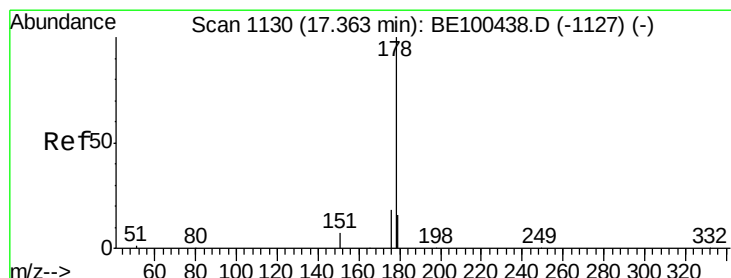
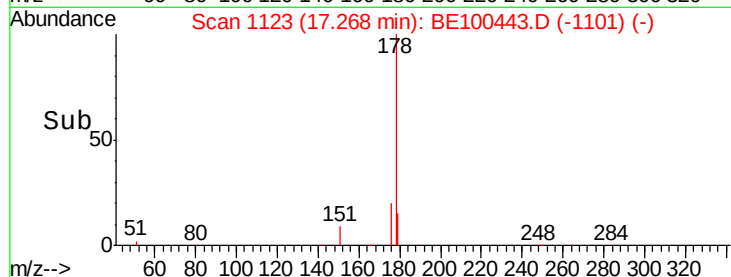
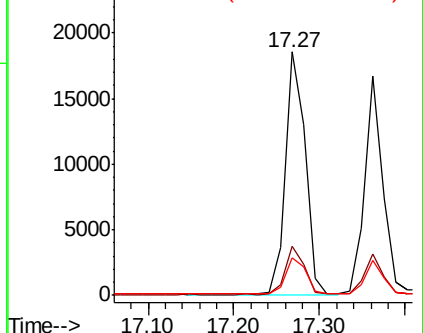
179 15.4 12.4 18.6



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: 0.381 ng

RT: 17.36 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

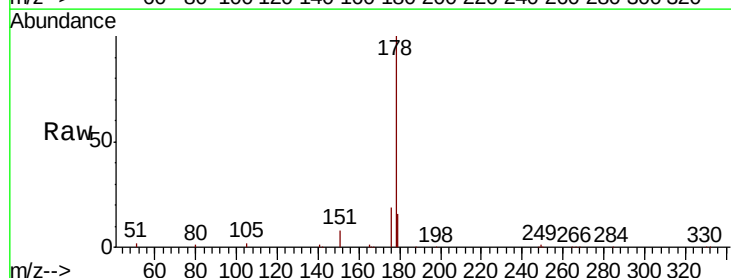
Tgt Ion:178 Resp: 24543

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

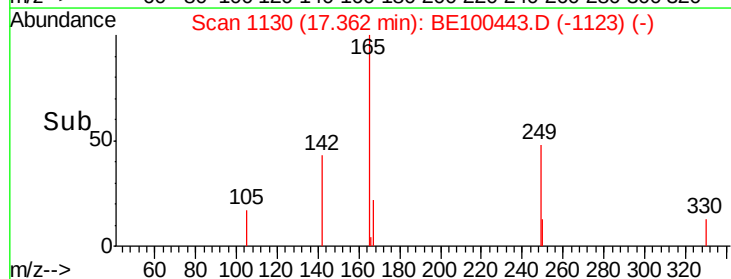
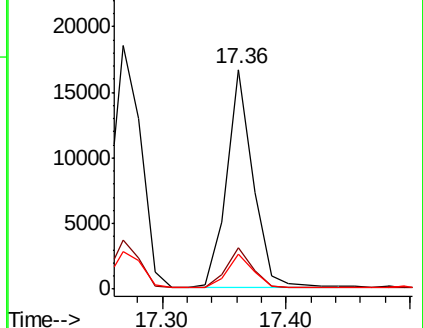
179 15.3 12.3 18.5

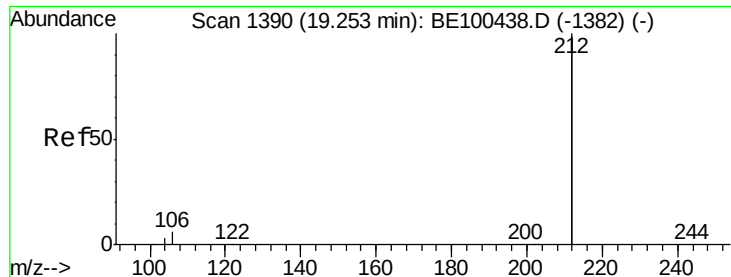


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

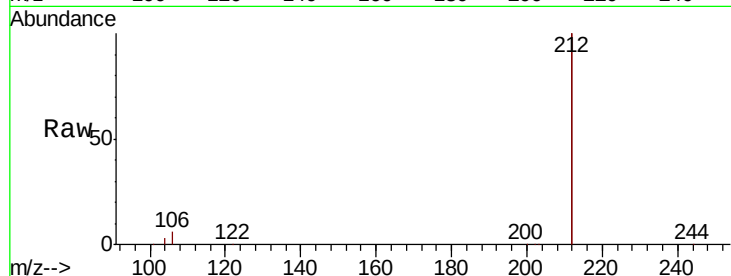
Tot Ion:212 Resp: 122711

Ion Ratio Lower Upper

212 100

106 3.0 2.6 3.8

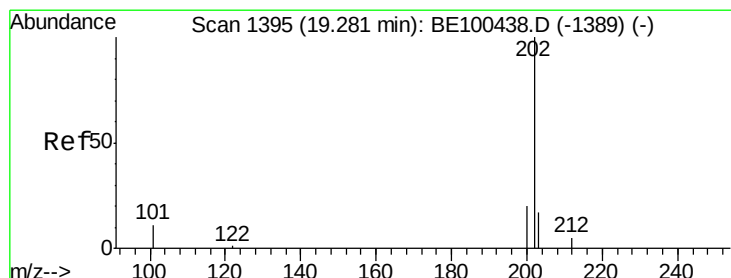
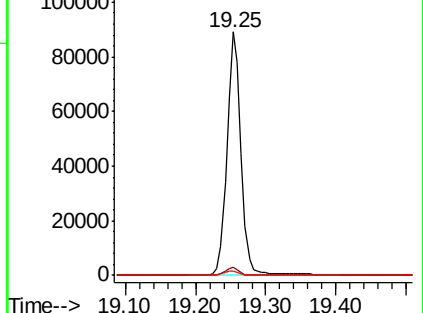
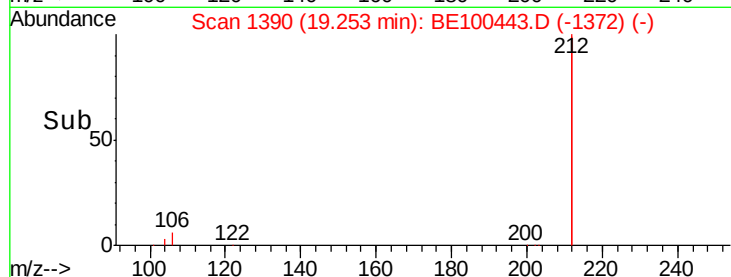
104 1.7 1.4 2.2



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: 0.344 ng

RT: 19.28 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

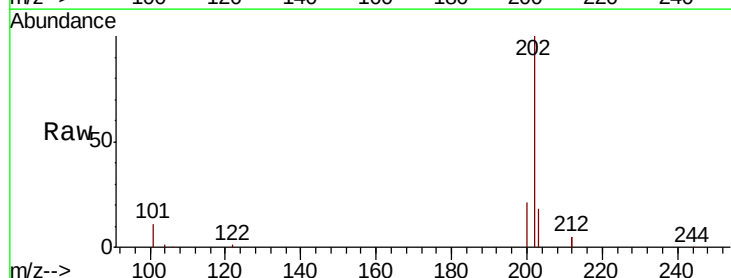
Tgt Ion:202 Resp: 34114

Ion Ratio Lower Upper

202 100

101 10.8 8.9 13.3

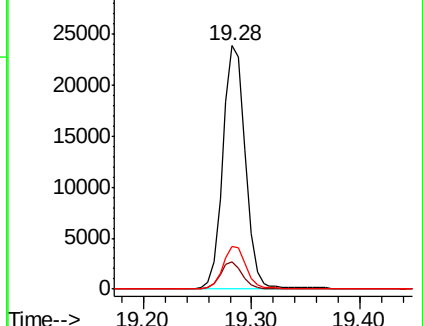
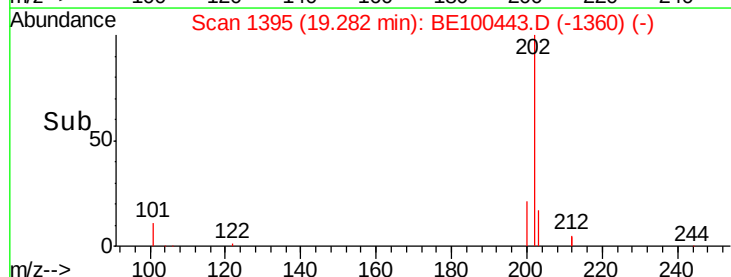
203 17.2 13.8 20.6

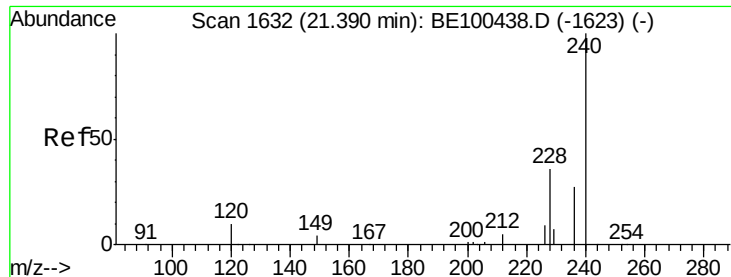


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.39 min Scan# 1632

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

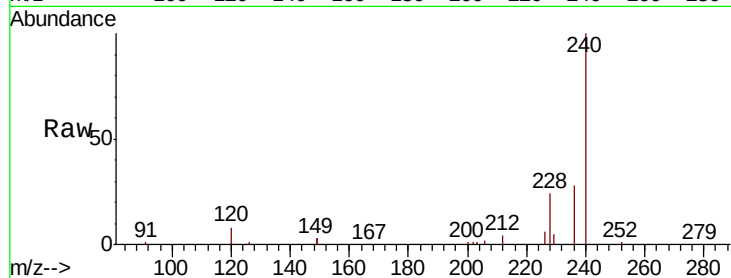
Tot Ion:240 Resp: 27671

Ion Ratio Lower Upper

240 100

120 8.1 8.8 13.2#

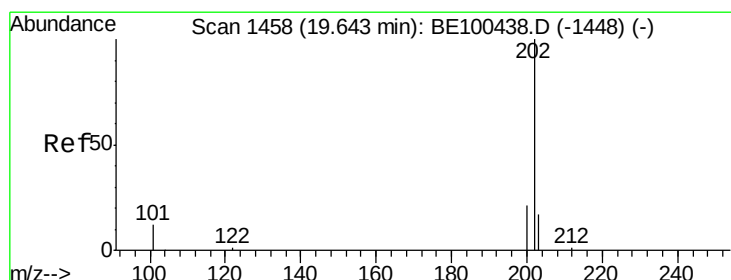
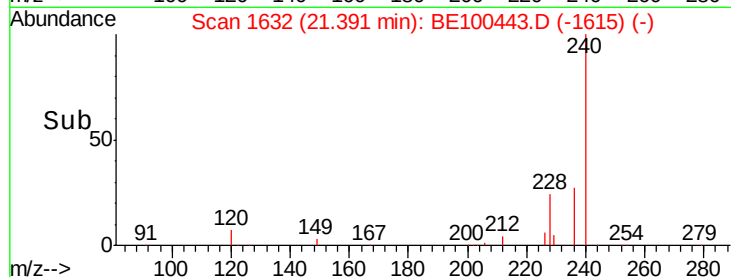
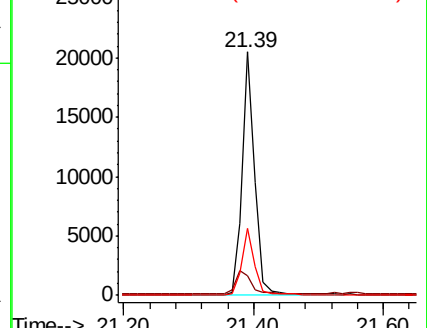
236 27.6 22.0 33.0



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: 0.407 ng

RT: 19.64 min Scan# 1458

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

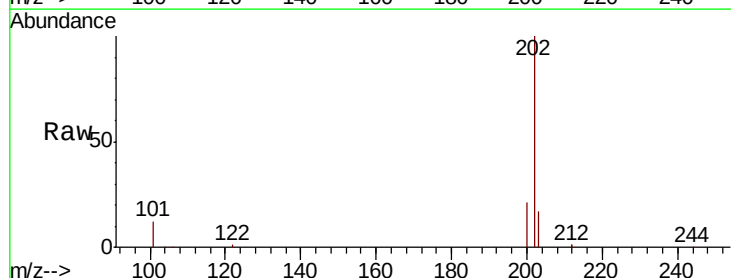
Tgt Ion:202 Resp: 32985

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

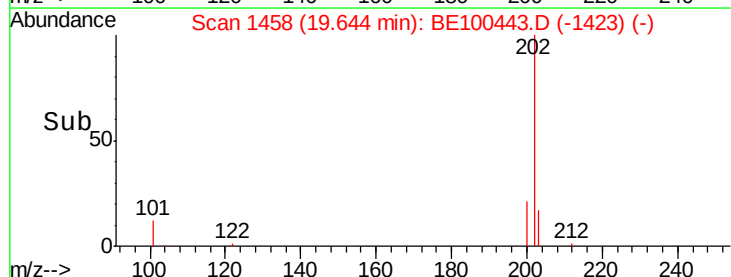
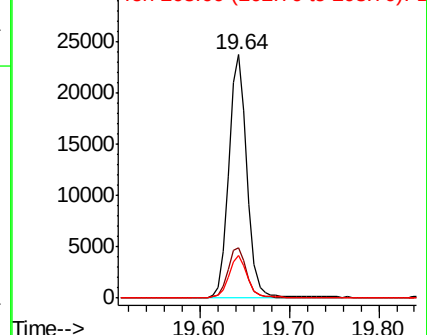
203 17.1 13.8 20.8

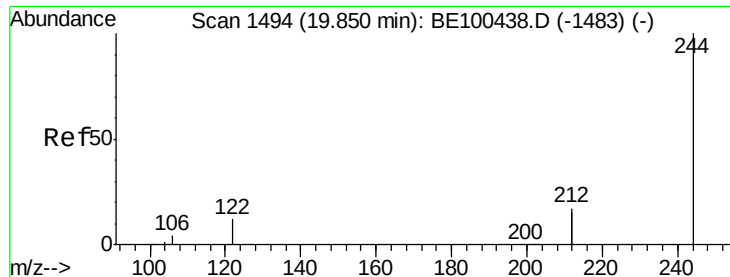


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.405 ng

RT: 19.85 min Scan# 1494

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

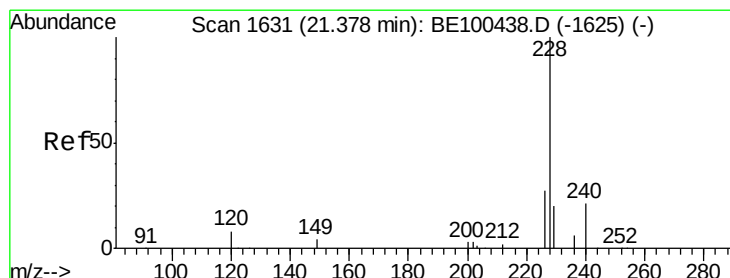
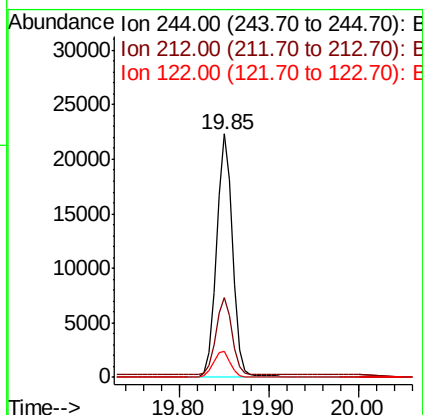
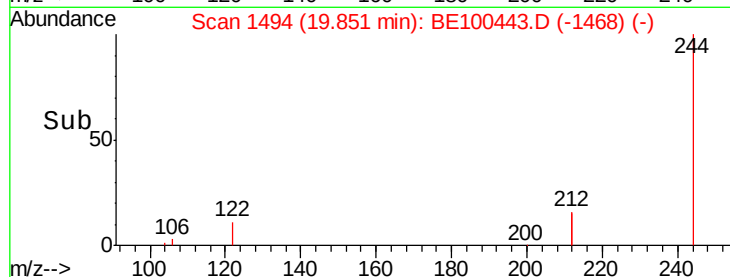
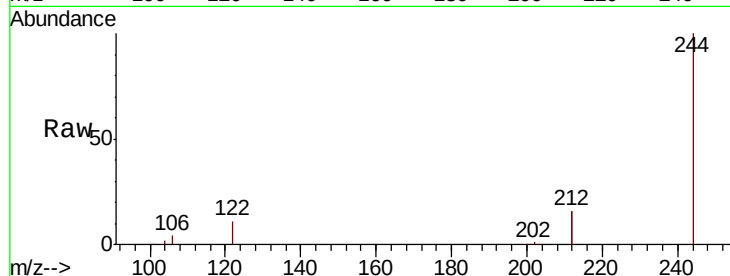
Tot Ion:244 Resp: 27456

Ion Ratio Lower Upper

244 100

212 32.8 26.3 39.5

122 10.8 9.4 14.2



#30

Benzo(a)anthracene

Concen: 0.369 ng

RT: 21.38 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

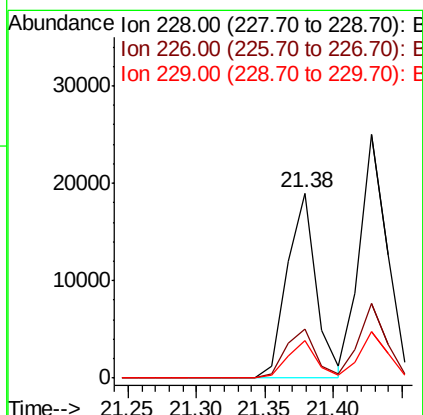
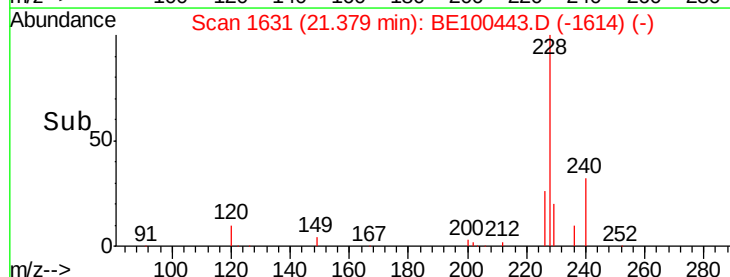
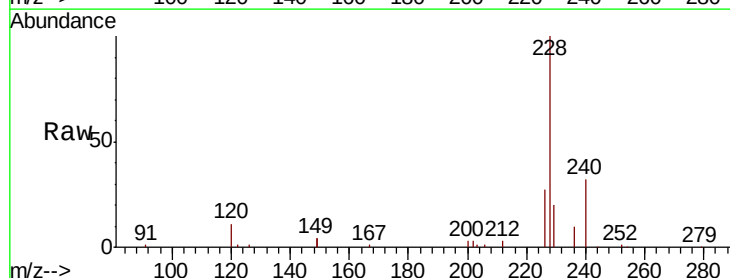
Tgt Ion:228 Resp: 27723

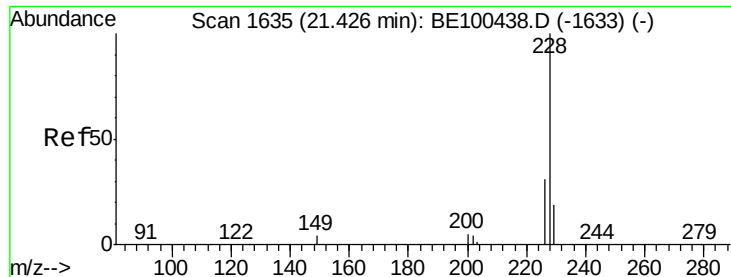
Ion Ratio Lower Upper

228 100

226 26.7 21.6 32.4

229 20.4 15.8 23.8





#31

Chrysene

Concen: 0.388 ng

RT: 21.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

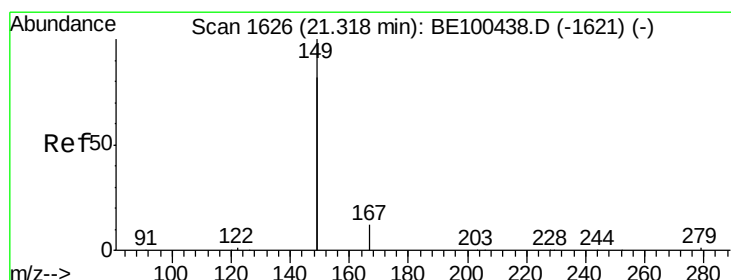
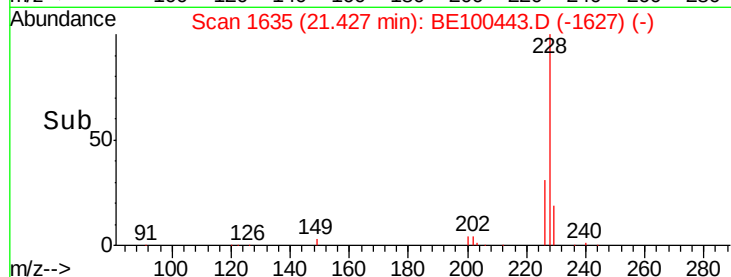
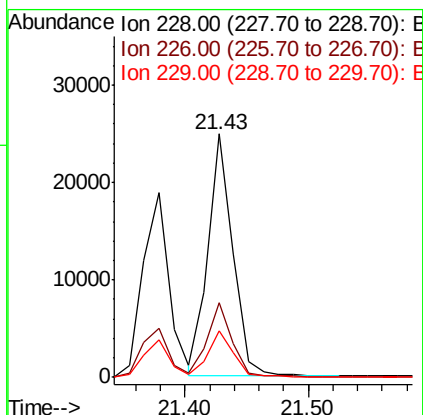
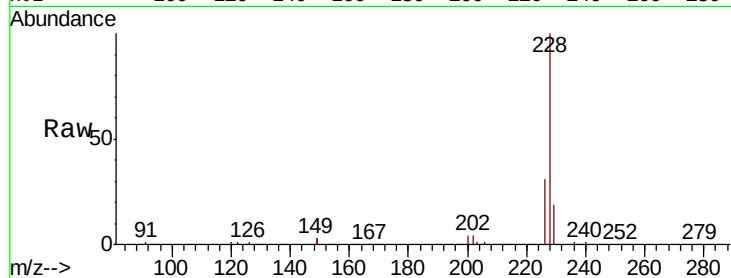
Tot Ion:228 Resp: 34633

Ion Ratio Lower Upper

228 100

226 30.7 24.8 37.2

229 19.0 15.8 23.6



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.324 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

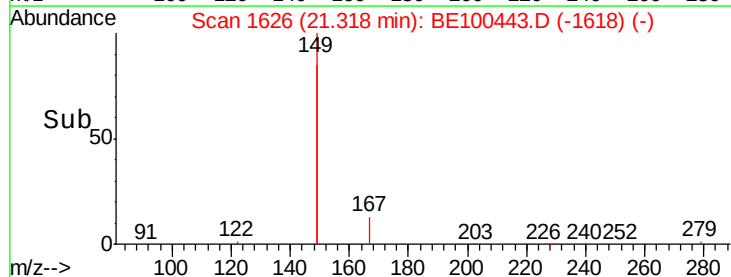
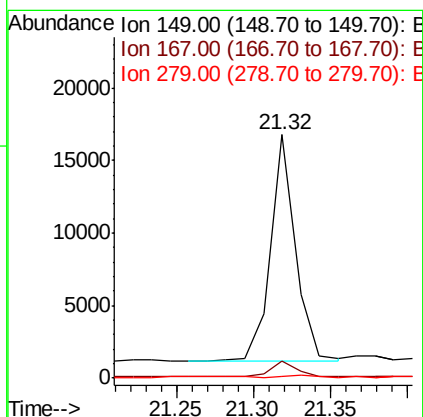
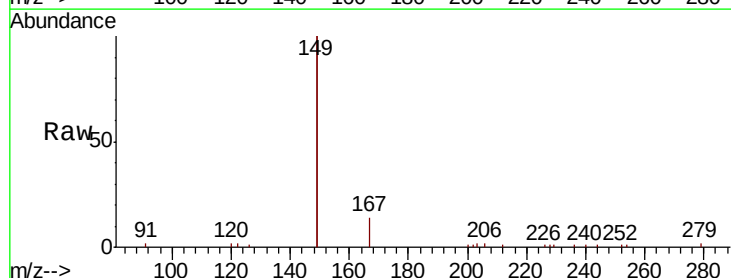
Tgt Ion:149 Resp: 17430

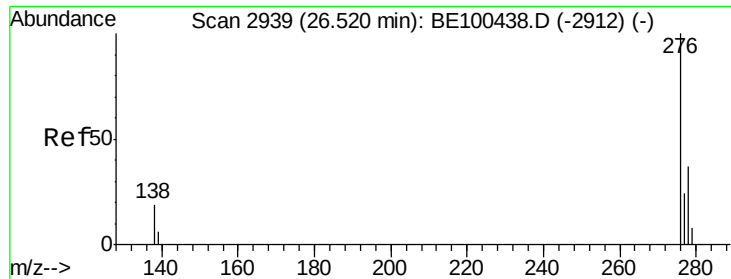
Ion Ratio Lower Upper

149 100

167 6.8 5.0 7.6

279 1.0 1.2 1.8#

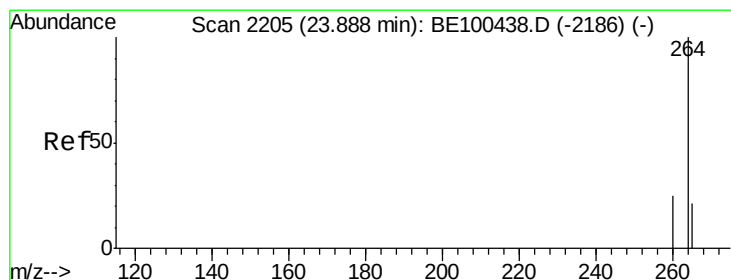
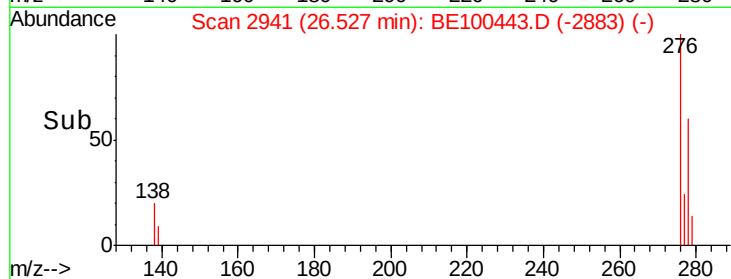
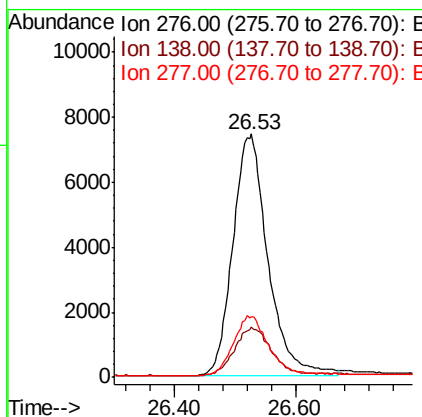
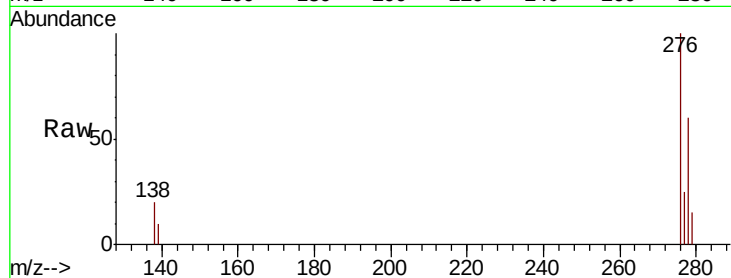




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.376 ng
 RT: 26.53 min Scan# 2941
 Delta R.T. 0.01 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

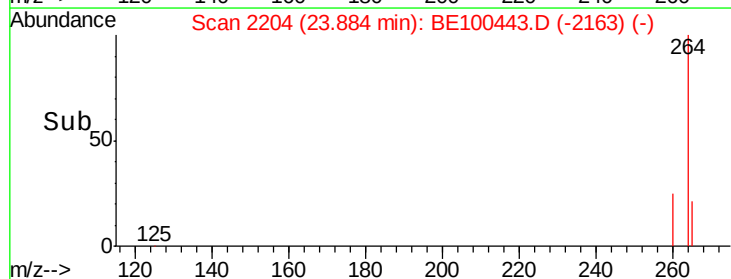
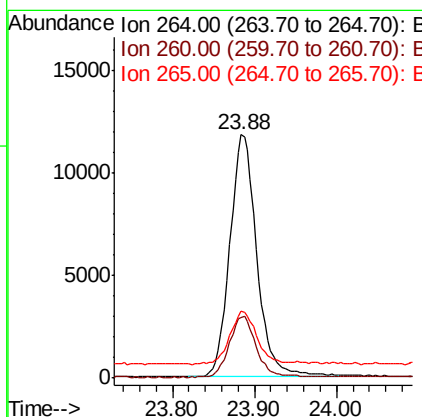
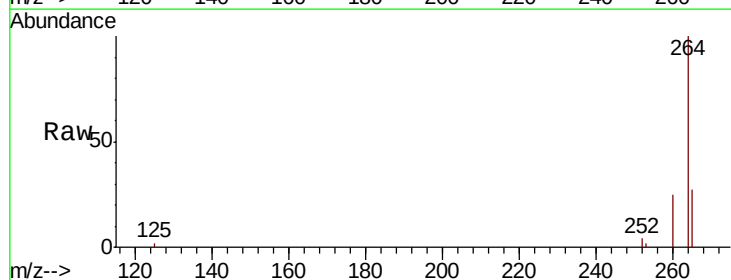
Instrument :
 BNA_E
 ClientSampleId :

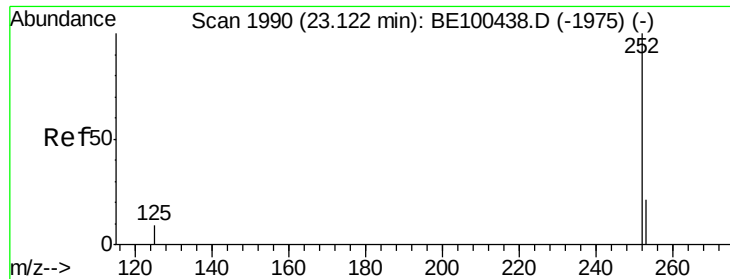
Tot Ion:276 Resp: 29821
 Ion Ratio Lower Upper
 276 100
 138 20.4 17.0 25.6
 277 24.7 19.8 29.6



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.88 min Scan# 2204
 Delta R.T. -0.00 min
 Lab File: BE100443.D
 Acq: 16 Jul 2019 14:42

Tgt Ion:264 Resp: 27057
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.0 30.0
 265 27.2 22.2 33.4





#35

Benzo(b)fluoranthene

Concen: 0.346 ng

RT: 23.12 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

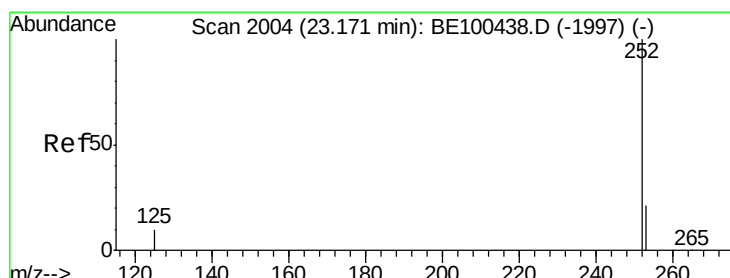
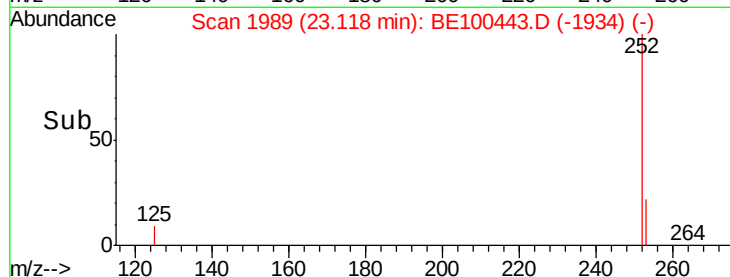
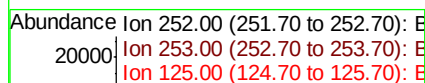
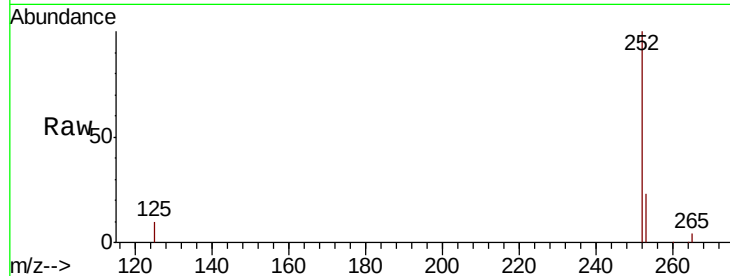
Tot Ion:252 Resp: 28587

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 9.5 8.0 12.0



#36

Benzo(k)fluoranthene

Concen: 0.339 ng

RT: 23.17 min Scan# 2004

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

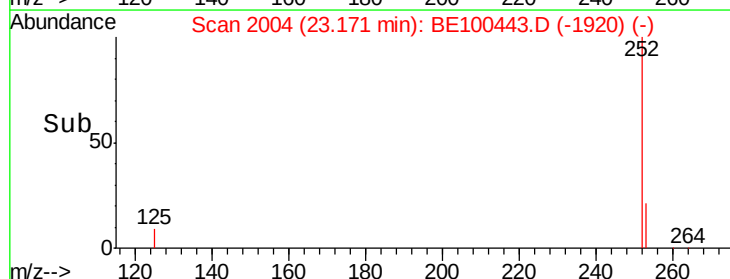
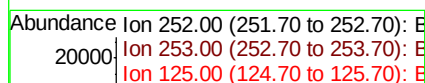
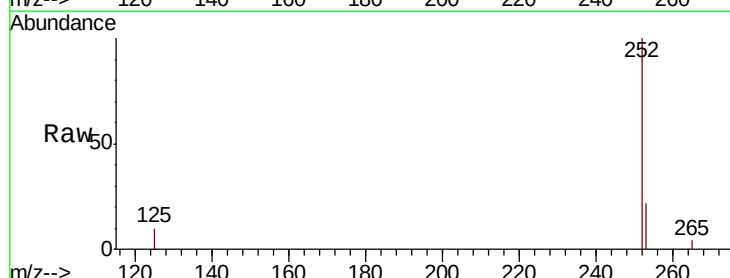
Tgt Ion:252 Resp: 29667

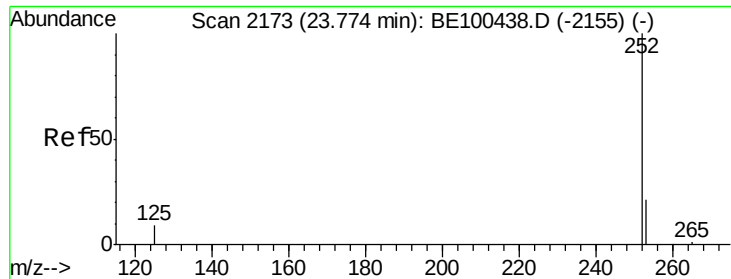
Ion Ratio Lower Upper

252 100

253 22.2 17.7 26.5

125 9.8 8.3 12.5





#37

Benzo(a)pyrene

Concen: 0.328 ng

RT: 23.77 min Scan# 2173

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :

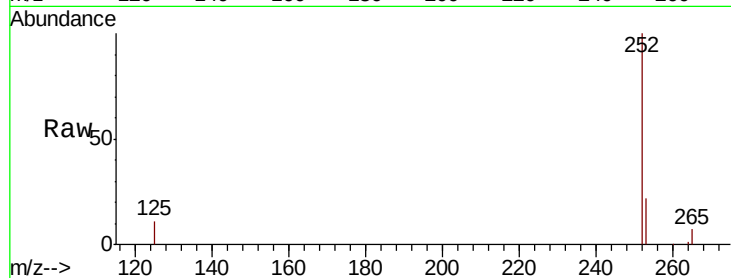
Tot Ion:252 Resp: 22289

Ion Ratio Lower Upper

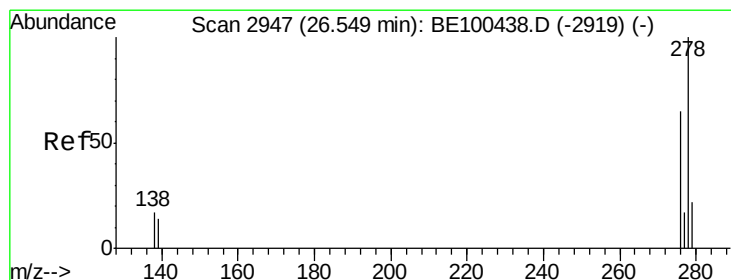
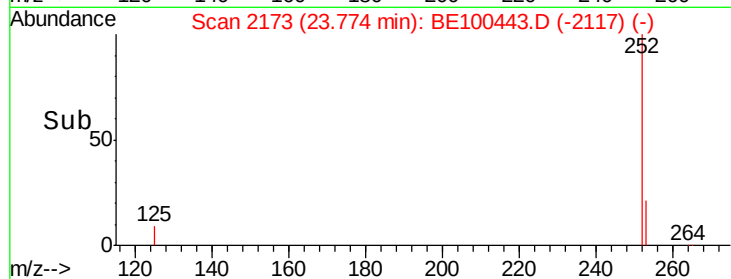
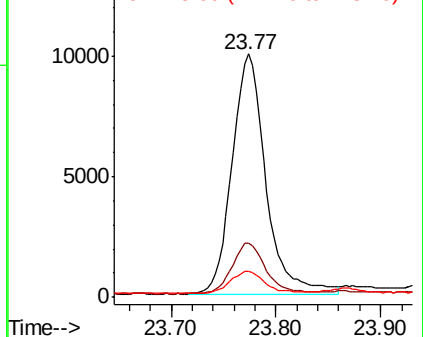
252 100

253 22.2 18.0 27.0

125 10.7 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: 0.344 ng

RT: 26.54 min Scan# 2946

Delta R.T. -0.00 min

Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

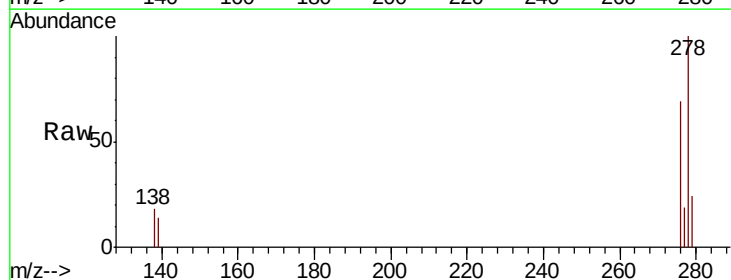
Tgt Ion:278 Resp: 24944

Ion Ratio Lower Upper

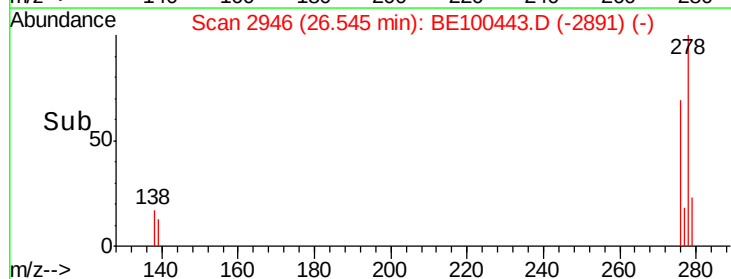
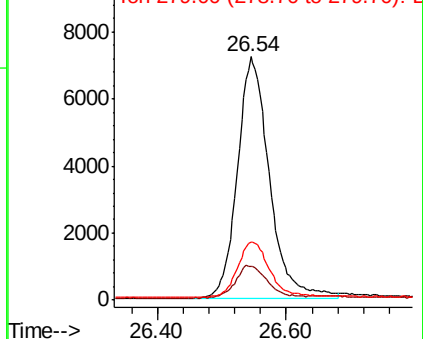
278 100

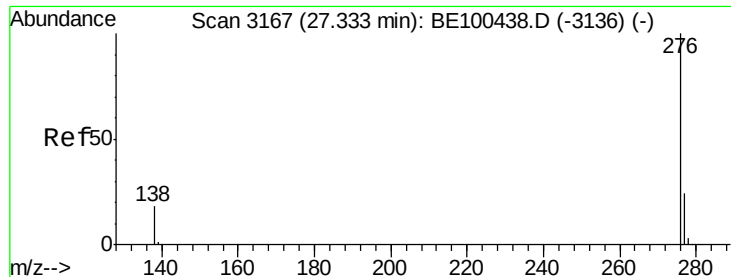
139 13.7 12.2 18.2

279 23.8 18.6 27.8



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: 0.352 ng

RT: 27.33 min Scan# 3166

Delta R.T. -0.00 min

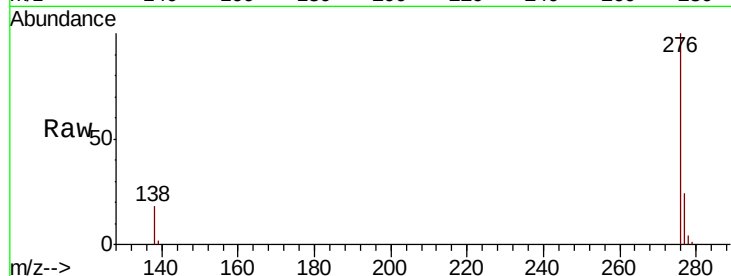
Lab File: BE100443.D

Acq: 16 Jul 2019 14:42

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 26713

Ion Ratio Lower Upper

276 100

277 24.3 19.6 29.4

138 18.5 15.1 22.7

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

