

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011619\
 Data File : BE098638.D
 Acq On : 16 Jan 2019 19:01
 Operator : SJ/JU
 Sample : PB116433BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB116433BS

Quant Time: Jan 17 00:16:10 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE011519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 15 14:30:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	1060	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	4134	0.40	ng	0.00
13) Acenaphthene-d10	14.47	164	2290	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	5116	0.40	ng	0.00
27) Chrysene-d12	21.42	240	6410	0.40	ng	0.00
34) Perylene-d12	23.92	264	6968	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	688	0.24	ng	0.01
5) Phenol-d6	7.00	99	956	0.24	ng	0.00
8) Nitrobenzene-d5	8.98	82	984	0.30	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	1872	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	251	0.25	ng	0.01
15) 2-Fluorobiphenyl	13.10	172	2348	0.25	ng	0.01
25) Fluoranthene-d10	19.26	212	16355	0.26	ng	0.00
29) Terphenyl-d14	19.86	244	3521	0.25	ng	0.00

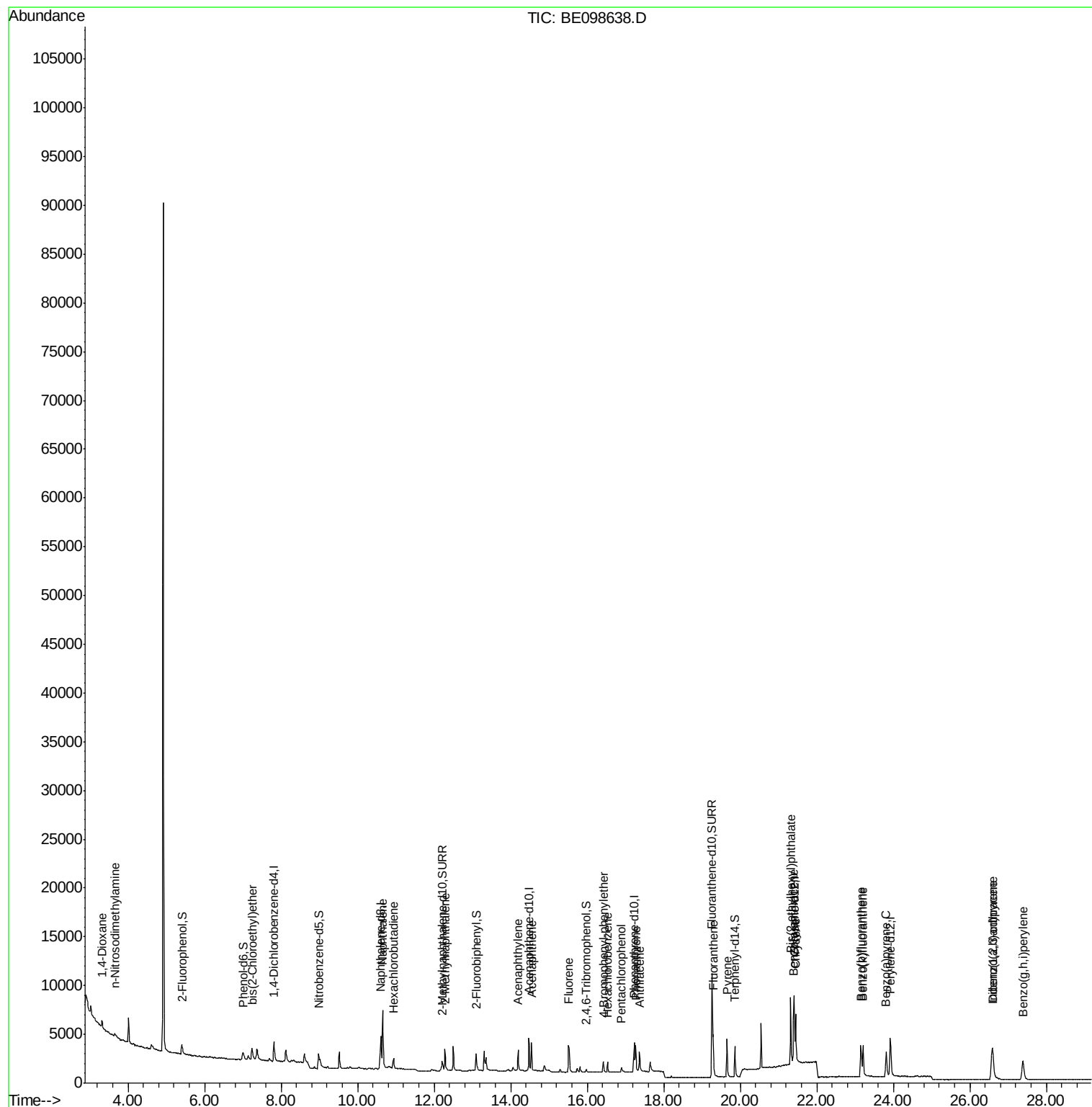
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.33	88	384	0.163	ng	# 13
3) n-Nitrosodimethylamine	3.65	42	507	0.353	ng	# 90
6) bis(2-Chloroethyl)ether	7.24	93	766	0.252	ng	77
9) Naphthalene	10.65	128	11182	0.272	ng	99
10) Hexachlorobutadiene	10.94	225	780	0.265	ng	99
12) 2-Methylnaphthalene	12.28	142	1743	0.255	ng	90
16) Acenaphthylene	14.20	152	2600	0.262	ng	100
17) Acenaphthene	14.54	154	1623	0.261	ng	99
18) Fluorene	15.53	166	2132	0.263	ng	99
20) 4-Bromophenyl-phenylether	16.42	248	605	0.223	ng	# 84
21) Hexachlorobenzene	16.53	284	779	0.238	ng	96
22) Pentachlorophenol	16.89	266	385	0.488	ng	93
23) Phenanthrene	17.27	178	3084	0.254	ng	100
24) Anthracene	17.36	178	2509	0.242	ng	97
26) Fluoranthene	19.29	202	4031	0.258	ng	98
28) Pyrene	19.65	202	4104	0.233	ng	99
30) Benzo(a)anthracene	21.39	228	4590	0.266	ng	96
31) Chrysene	21.45	228	4719	0.264	ng	98
32) Bis(2-ethylhexyl)phthalate	21.32	149	7011	0.192	ng	# 99
33) Indeno(1,2,3-cd)pyrene	26.58	276	5846	0.317	ng	# 73
35) Benzo(b)fluoranthene	23.15	252	5008	0.263	ng	95
36) Benzo(k)fluoranthene	23.21	252	5518	0.266	ng	96
37) Benzo(a)pyrene	23.81	252	5080	0.272	ng	98
38) Dibenzo(a,h)anthracene	26.60	278	4678	0.283	ng	96
39) Benzo(g,h,i)perylene	27.38	276	5212	0.288	ng	99

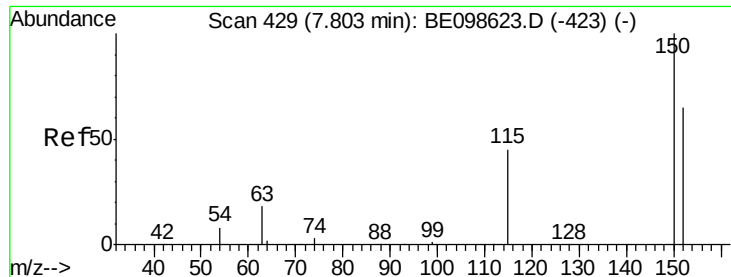
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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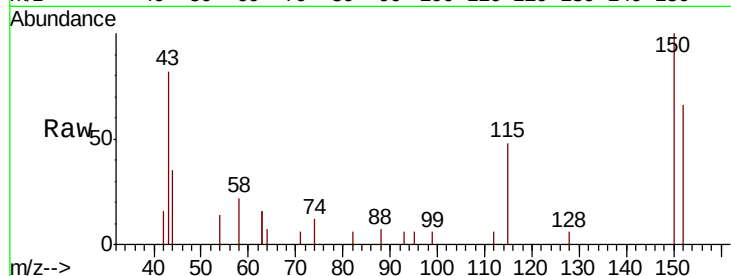


#1

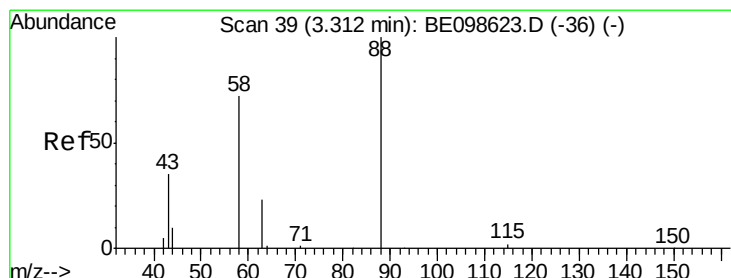
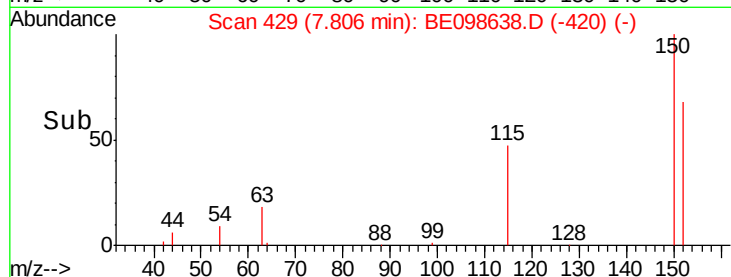
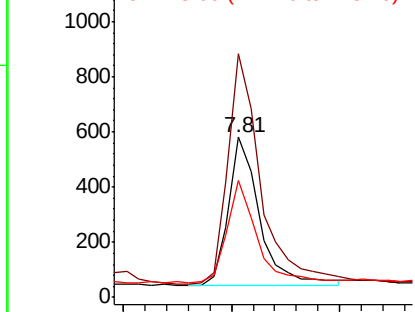
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.81 min Scan# 429
Delta R.T. 0.00 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Instrument :
BNA_E
ClientSampleId :
PB116433BS

Tot Ion:152 Resp: 1060
Ion Ratio Lower Upper
152 100
150 152.0 121.4 182.2
115 73.1 59.1 88.7



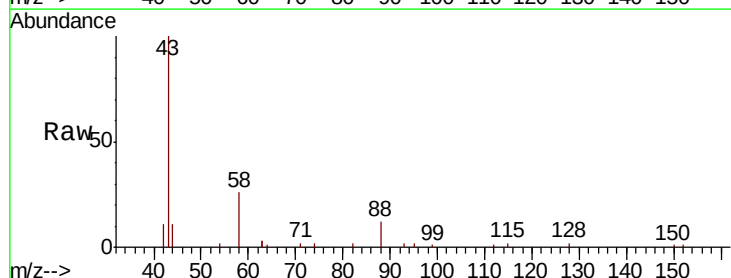
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



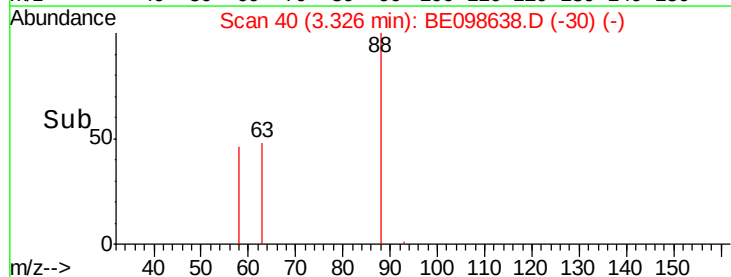
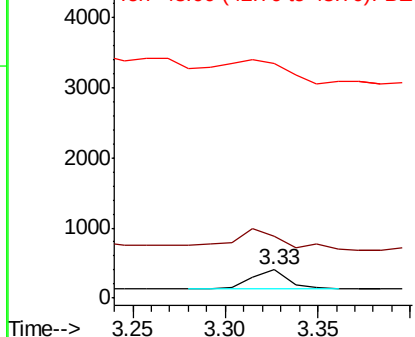
#2

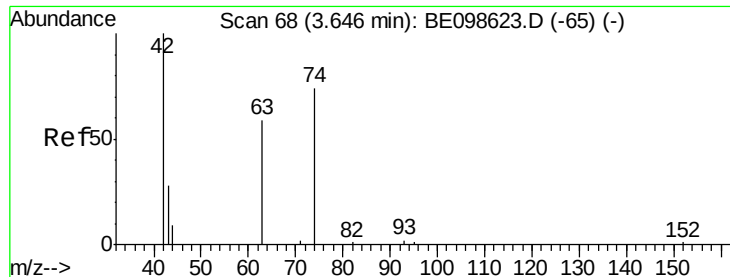
1,4-Dioxane
Concen: 0.163 ng
RT: 3.33 min Scan# 40
Delta R.T. 0.02 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Tgt Ion: 88 Resp: 384
Ion Ratio Lower Upper
88 100
58 121.9 73.9 110.9#
43 185.4 43.7 65.5#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.353 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

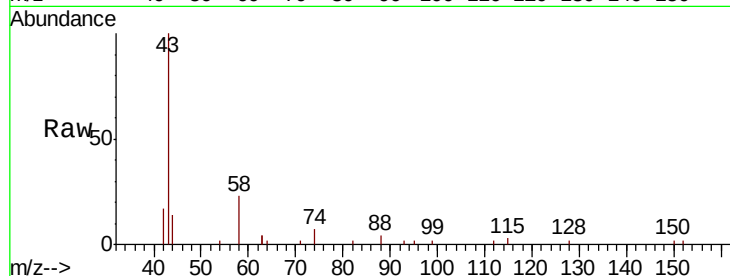
Tot Ion: 42 Resp: 507

Ion Ratio Lower Upper

42 100

74 65.3 58.9 88.3

44 10.5 0.0 0.0#

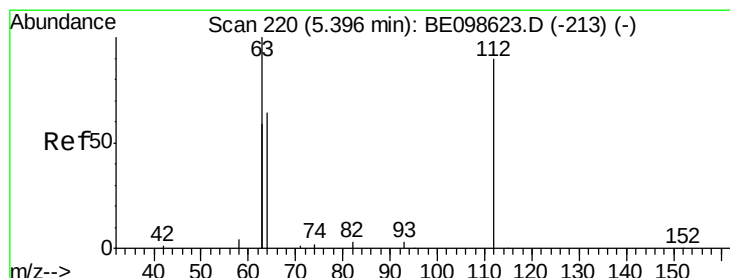
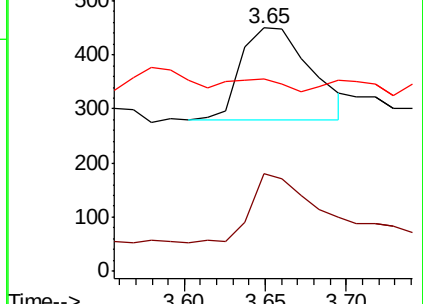
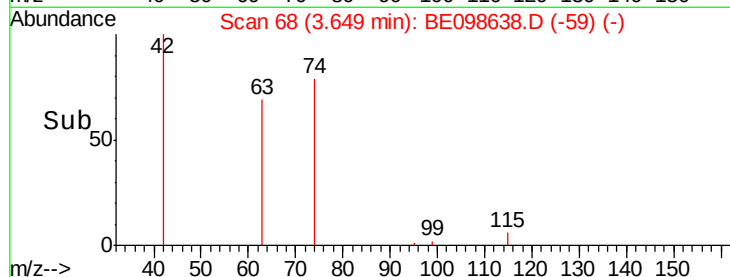


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0

Time-->



#4

2-Fluorophenol

Concen: 0.243 ng

RT: 5.41 min Scan# 221

Delta R.T. 0.01 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

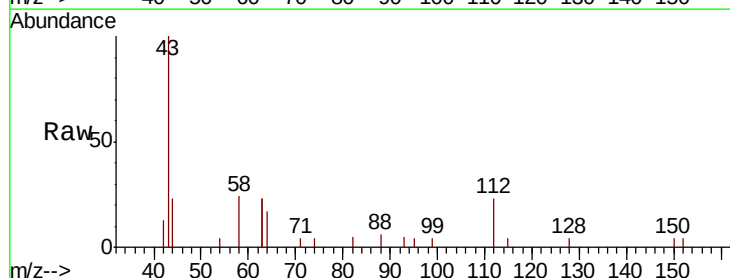
Tgt Ion: 112 Resp: 688

Ion Ratio Lower Upper

112 100

64 90.3 62.9 94.3

63 217.0 152.2 228.4

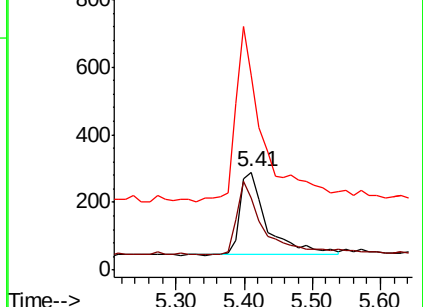
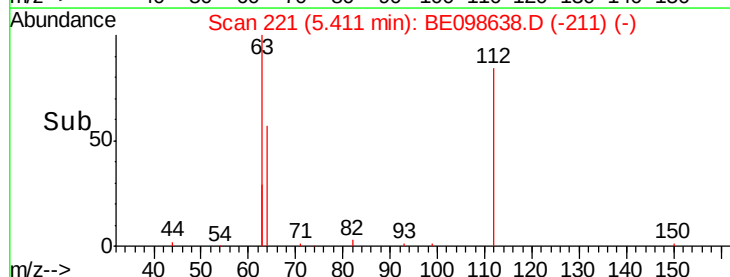


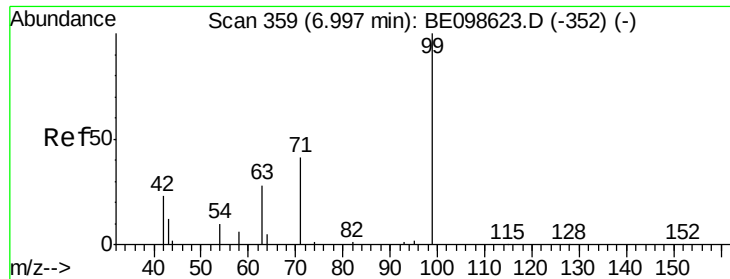
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time-->





#5

Phenol-d6

Concen: 0.237 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

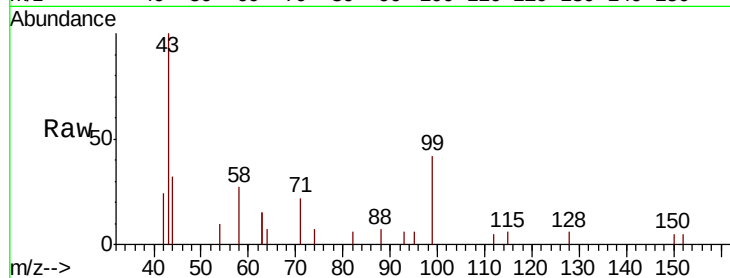
Tot Ion: 99 Resp: 956

Ion Ratio Lower Upper

99 100

42 35.1 24.6 37.0

71 52.3 35.1 52.7

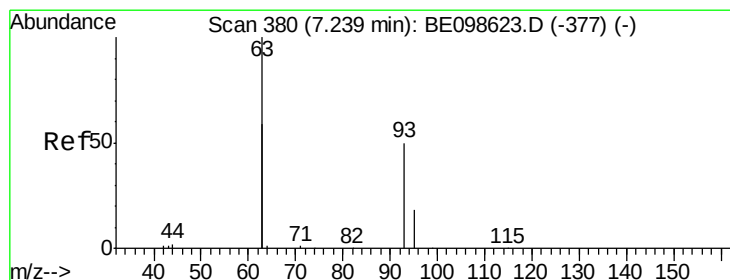
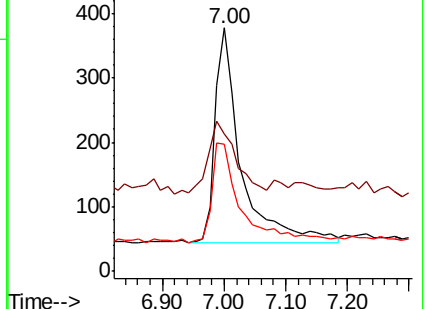
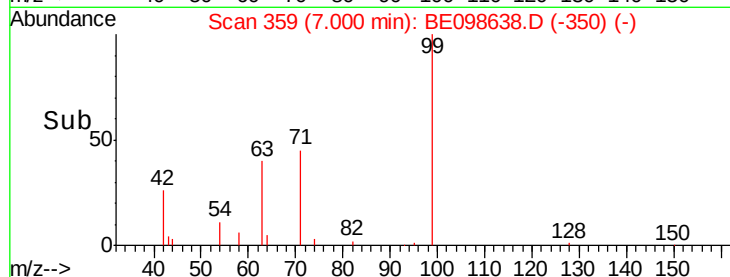


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.252 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

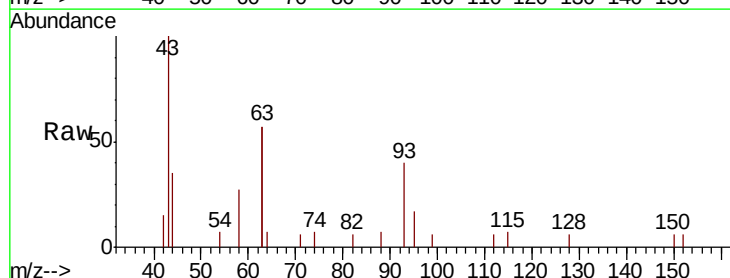
Tgt Ion: 93 Resp: 766

Ion Ratio Lower Upper

93 100

63 283.0 267.3 400.9

95 30.2 26.2 39.4

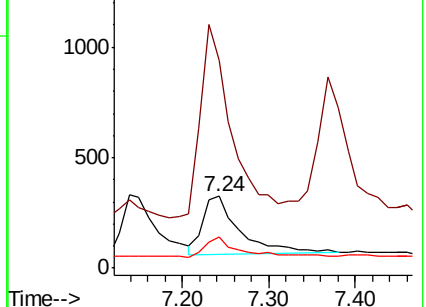
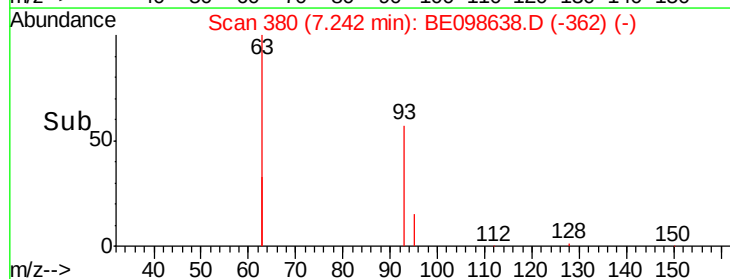


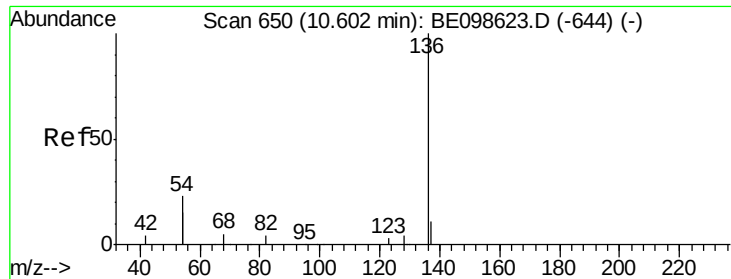
Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

Tot Ion:136 Resp: 4134

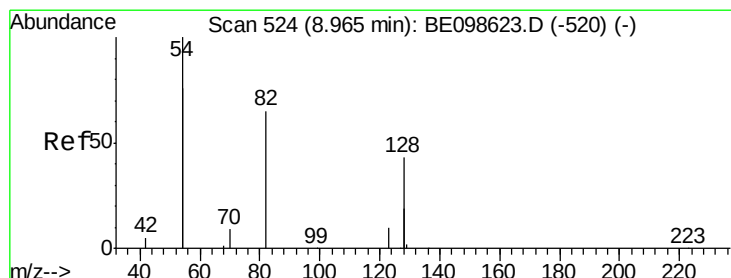
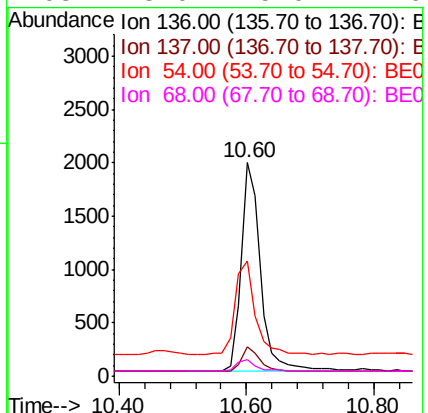
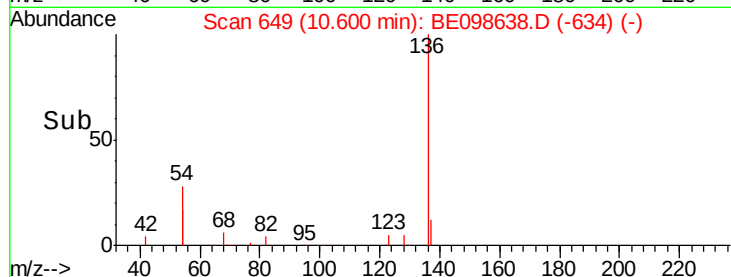
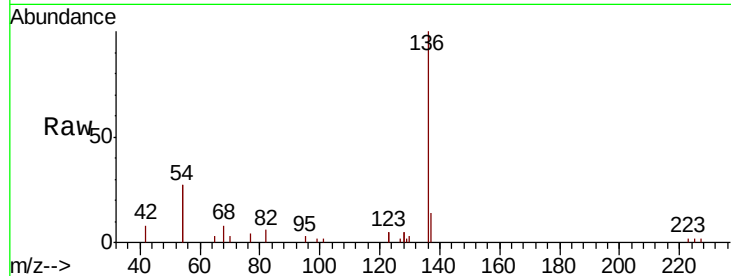
Ion Ratio Lower Upper

136 100

137 13.7 9.7 14.5

54 54.2 35.5 53.3#

68 8.0 5.0 7.6#



#8

Nitrobenzene-d5

Concen: 0.300 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

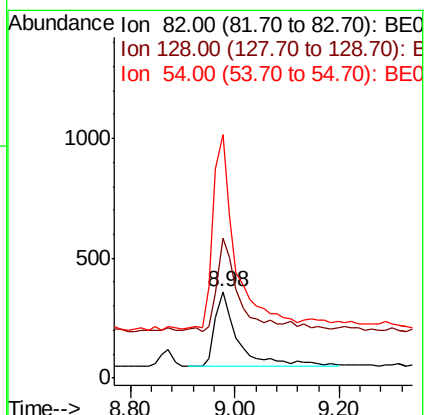
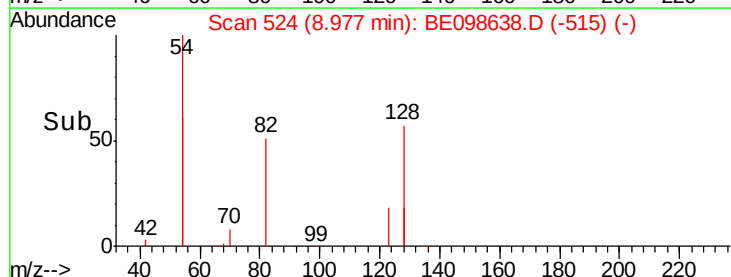
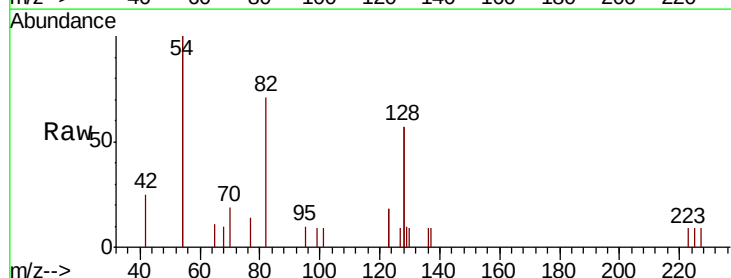
Tgt Ion: 82 Resp: 984

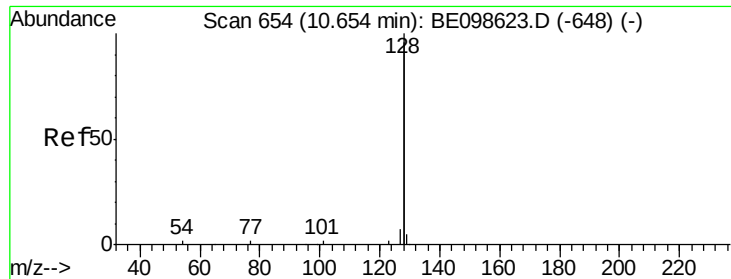
Ion Ratio Lower Upper

82 100

128 162.2 96.5 144.7#

54 282.2 224.7 337.1





#9

Naphthalene

Concen: 0.272 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

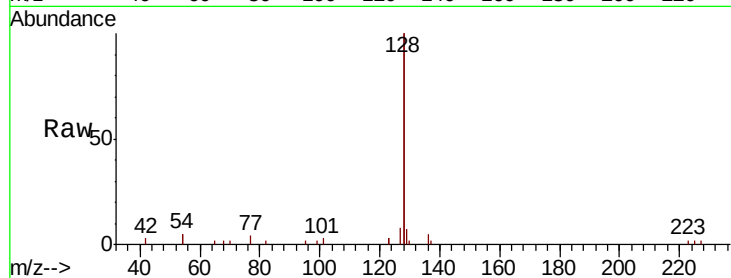
Tot Ion:128 Resp: 11182

Ion Ratio Lower Upper

128 100

129 3.5 2.6 3.8

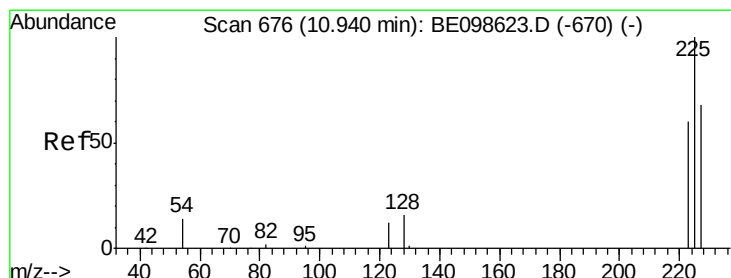
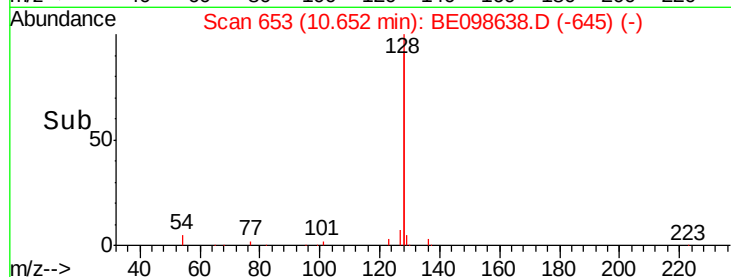
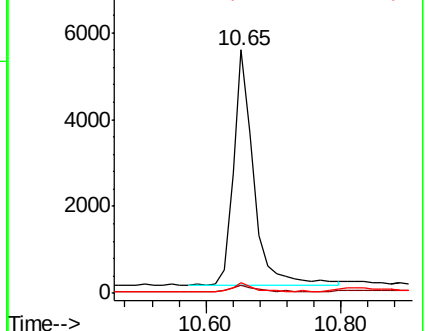
127 4.2 3.0 4.6



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: 0.265 ng

RT: 10.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

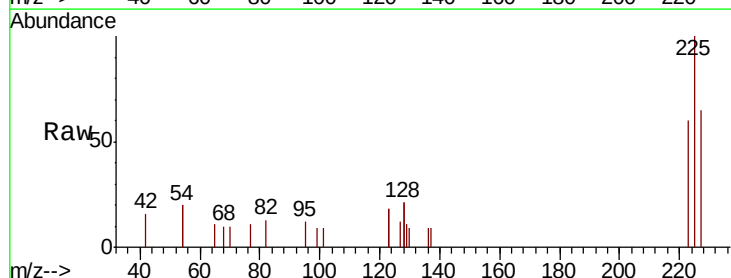
Tgt Ion:225 Resp: 780

Ion Ratio Lower Upper

225 100

223 60.0 47.8 71.8

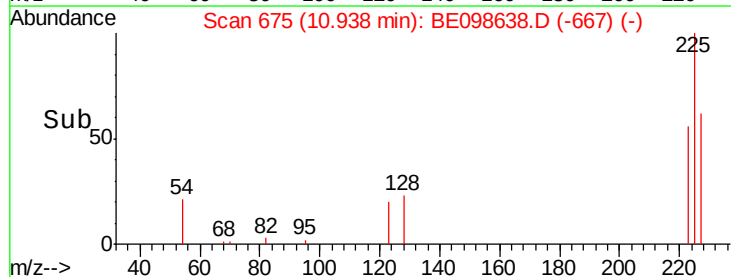
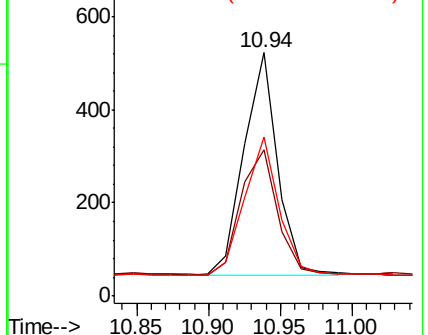
227 64.1 50.5 75.7

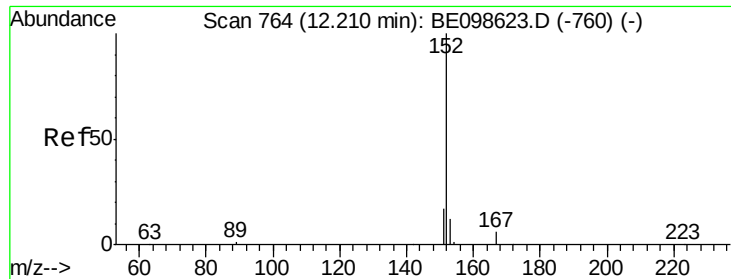


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

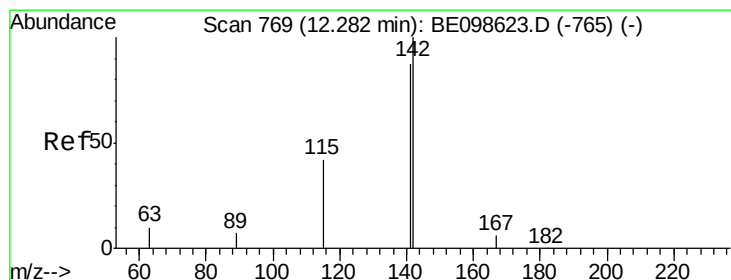
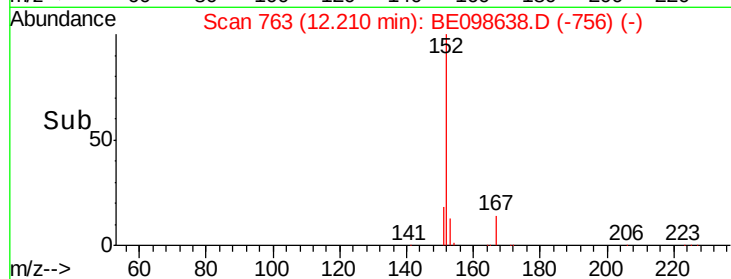
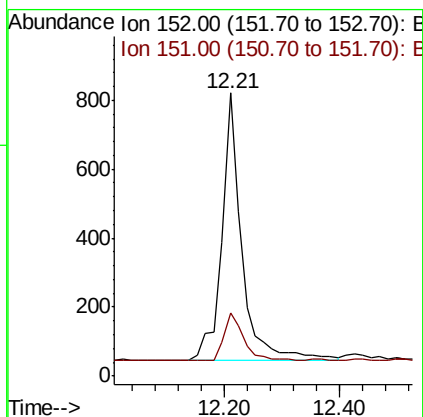
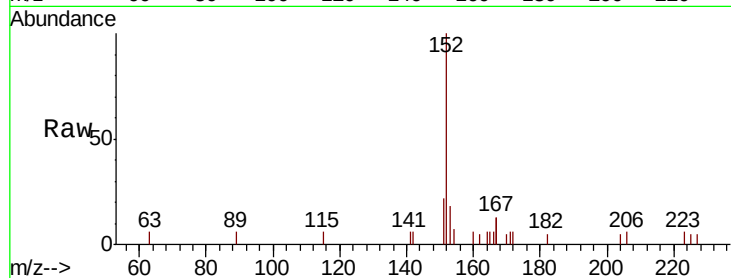




#11
 2-Methylnaphthalene-d10
 Concen: 0.275 ng
 RT: 12.21 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: BE098638.D
 Acq: 16 Jan 2019 19:01

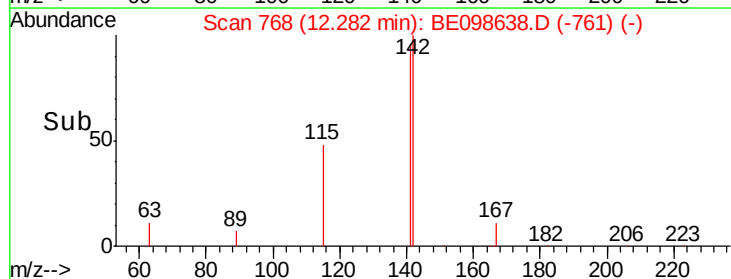
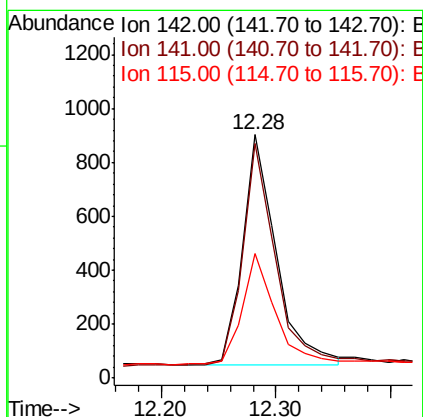
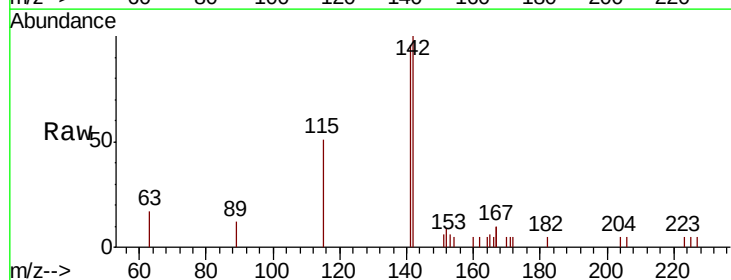
Instrument :
 BNA_E
 ClientSampleId :
 PB116433BS

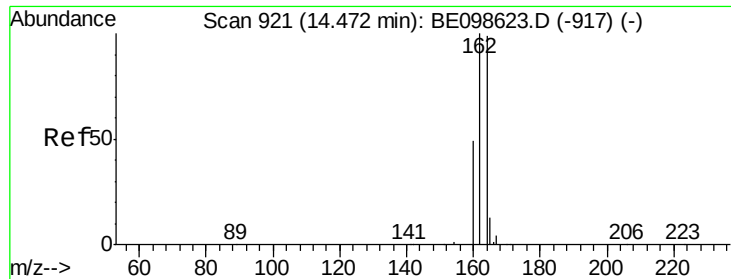
Tot Ion:152 Resp: 1872
 Ion Ratio Lower Upper
 152 100
 151 18.1 16.2 24.4



#12
 2-Methylnaphthalene
 Concen: 0.255 ng
 RT: 12.28 min Scan# 768
 Delta R.T. 0.00 min
 Lab File: BE098638.D
 Acq: 16 Jan 2019 19:01

Tgt Ion:142 Resp: 1743
 Ion Ratio Lower Upper
 142 100
 141 96.2 70.0 105.0
 115 51.2 35.2 52.8

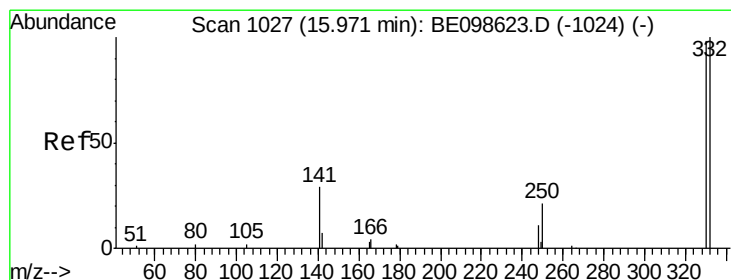
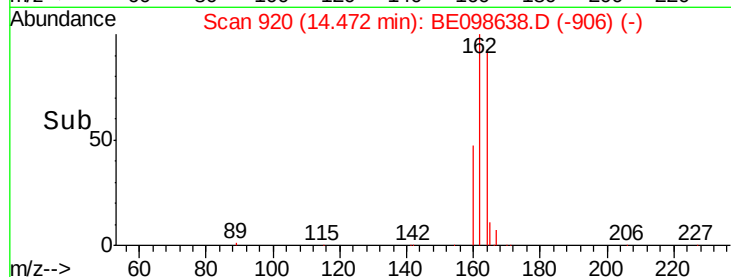
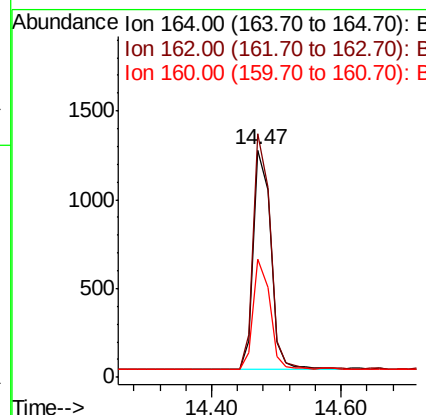
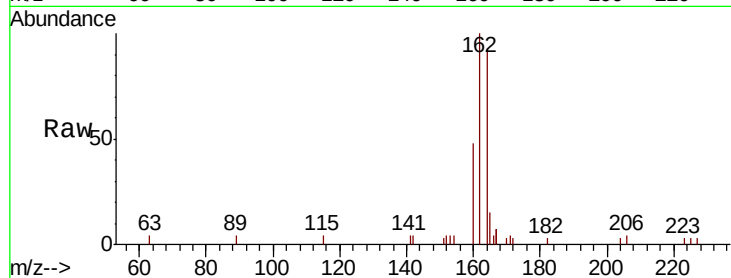




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.47 min Scan# 920
Delta R.T. 0.00 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

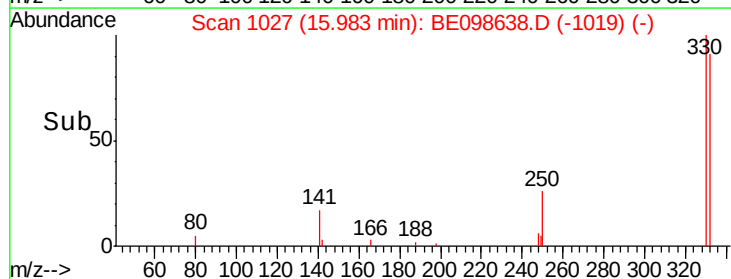
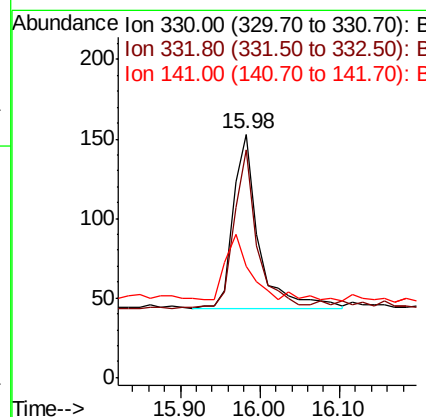
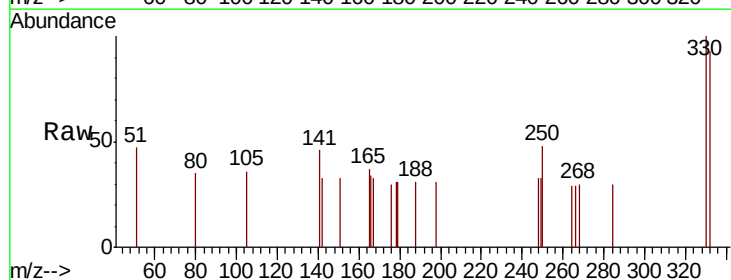
Instrument :
BNA_E
ClientSampleId :
PB116433BS

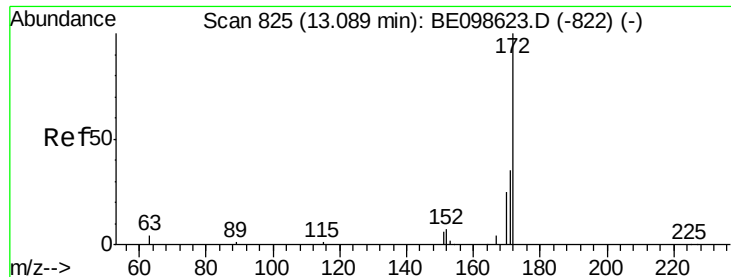
Tot Ion:164 Resp: 2290
Ion Ratio Lower Upper
164 100
162 107.0 80.5 120.7
160 51.8 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.252 ng
RT: 15.98 min Scan# 1027
Delta R.T. 0.01 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Tgt Ion:330 Resp: 251
Ion Ratio Lower Upper
330 100
332 79.3 73.3 109.9
141 32.7 33.1 49.7#

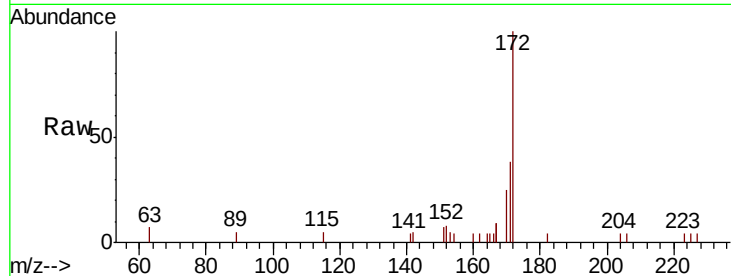




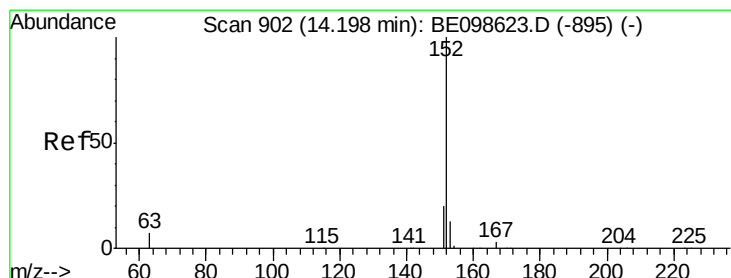
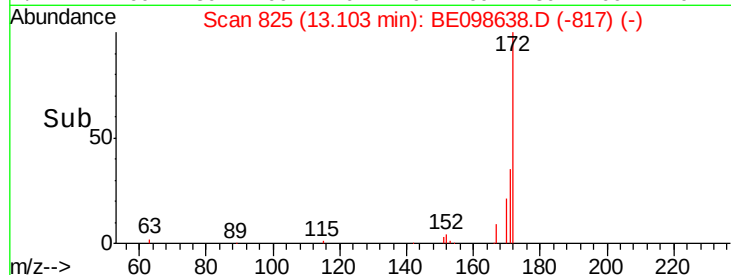
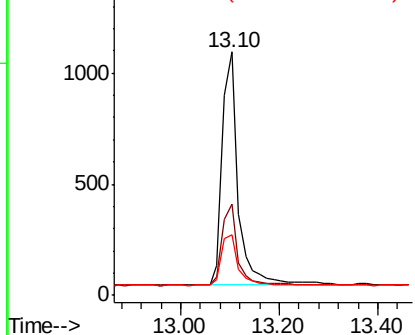
#15
2-Fluorobiphenyl
Concen: 0.250 ng
RT: 13.10 min Scan# 825
Delta R.T. 0.01 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Instrument :
BNA_E
ClientSampleId :
PB116433BS

Tot Ion:172 Resp: 2348
Ion Ratio Lower Upper
172 100
171 37.6 29.0 43.4
170 24.6 20.8 31.2

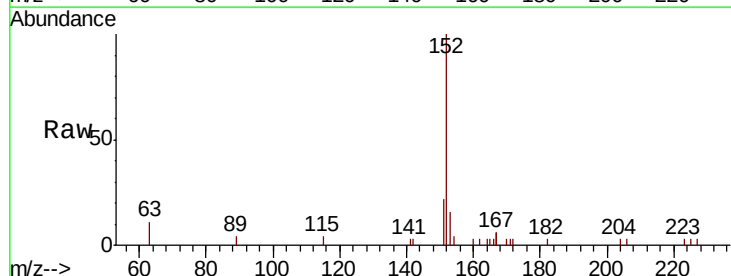


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

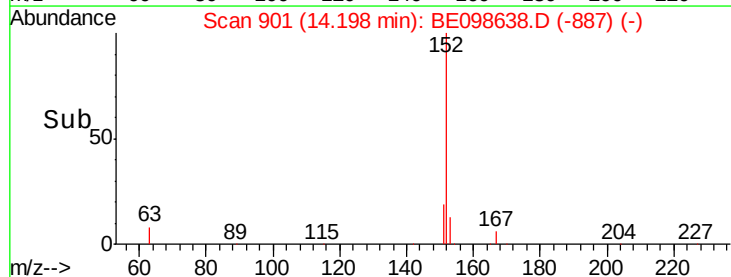
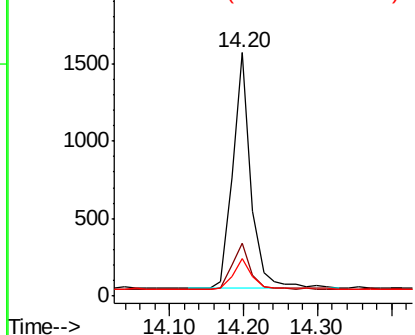


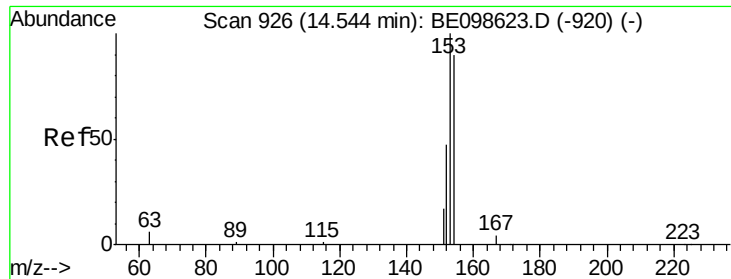
#16
Acenaphthylene
Concen: 0.262 ng
RT: 14.20 min Scan# 901
Delta R.T. 0.00 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Tgt Ion:152 Resp: 2600
Ion Ratio Lower Upper
152 100
151 20.5 16.3 24.5
153 13.1 10.7 16.1



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

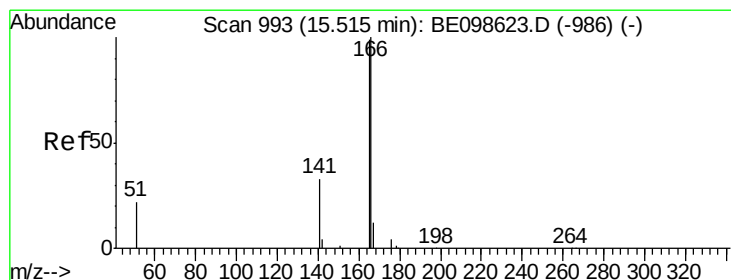
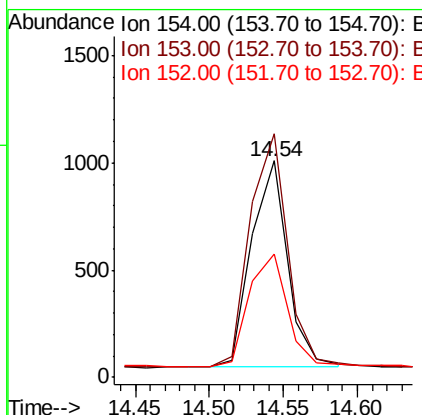
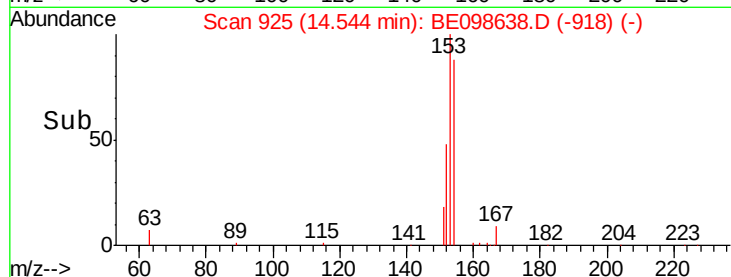
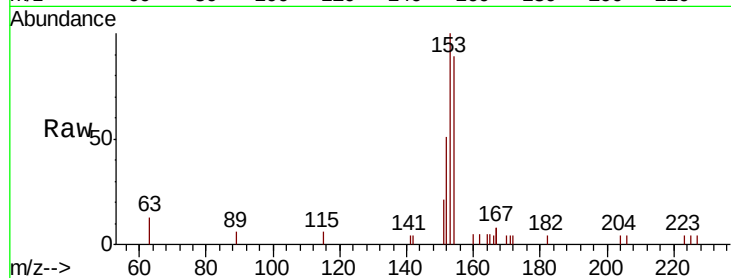




#17
Acenaphthene
Concen: 0.261 ng
RT: 14.54 min Scan# 925
Delta R.T. 0.00 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

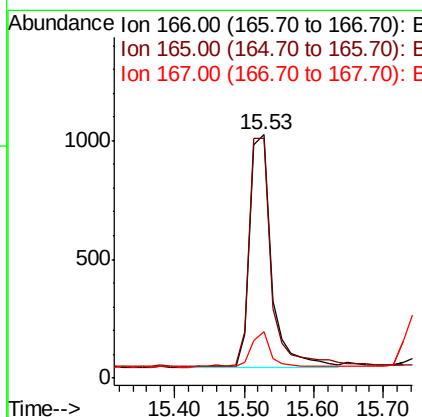
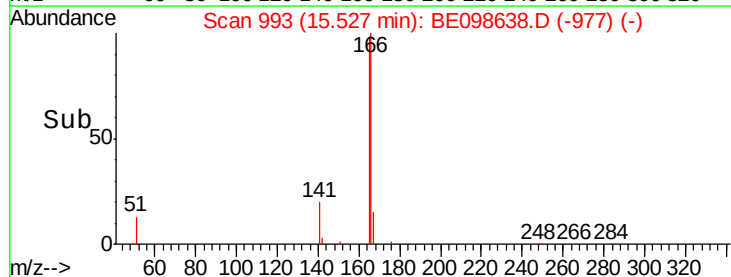
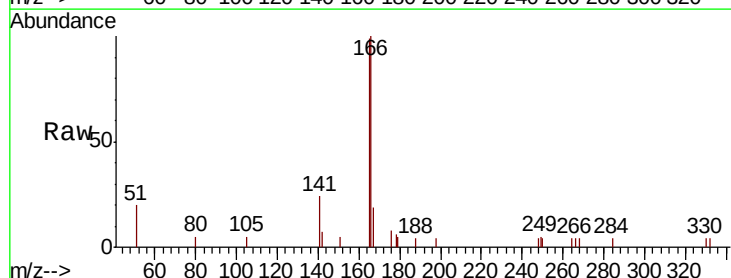
Instrument :
BNA_E
ClientSampleId :
PB116433BS

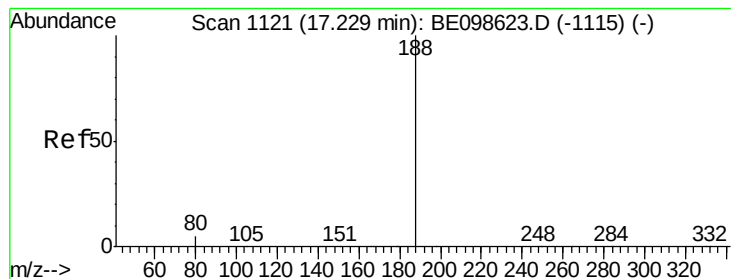
Tot Ion:154 Resp: 1623
Ion Ratio Lower Upper
154 100
153 118.5 93.9 140.9
152 58.2 45.8 68.8



#18
Fluorene
Concen: 0.263 ng
RT: 15.53 min Scan# 993
Delta R.T. 0.01 min
Lab File: BE098638.D
Acq: 16 Jan 2019 19:01

Tgt Ion:166 Resp: 2132
Ion Ratio Lower Upper
166 100
165 99.5 79.3 118.9
167 12.7 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

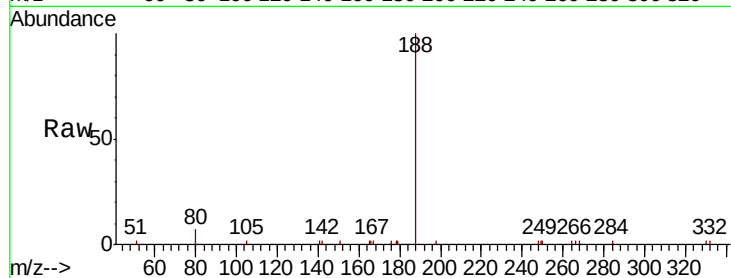
Tot Ion:188 Resp: 5116

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

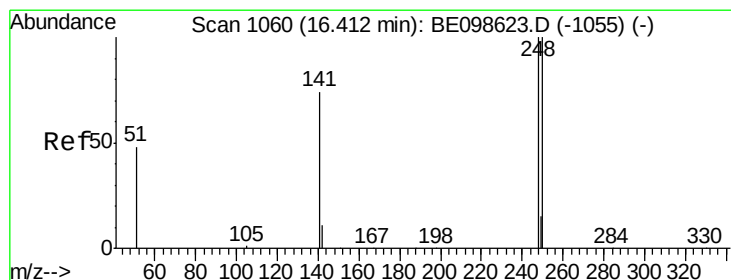
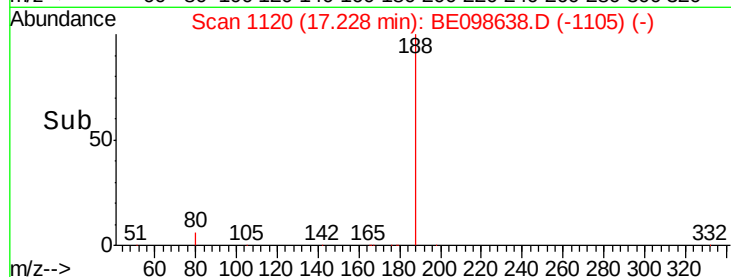
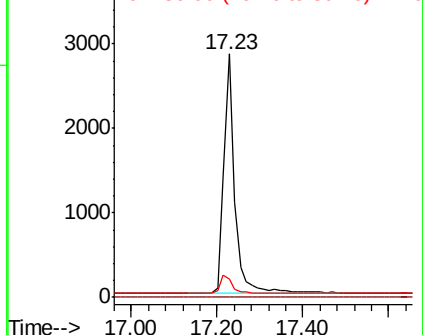
80 7.4 4.7 7.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.223 ng

RT: 16.42 min Scan# 1060

Delta R.T. 0.01 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

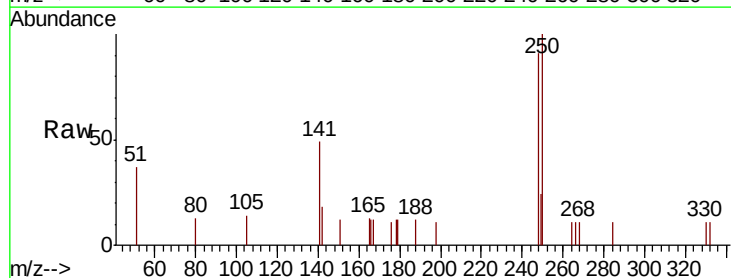
Tgt Ion:248 Resp: 605

Ion Ratio Lower Upper

248 100

250 109.9 80.2 120.4

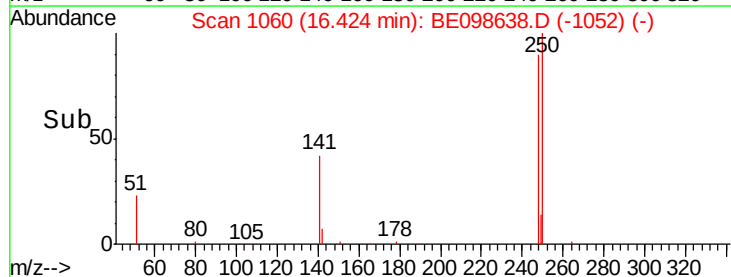
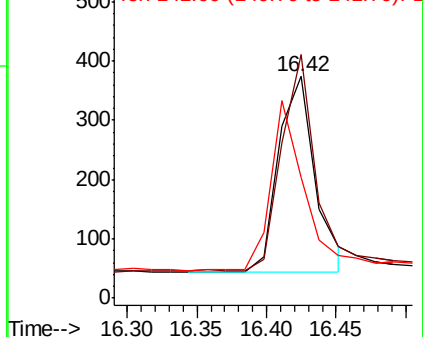
141 54.3 60.5 90.7#

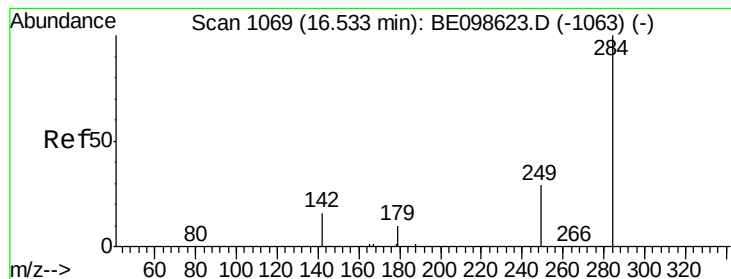


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.238 ng

RT: 16.53 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

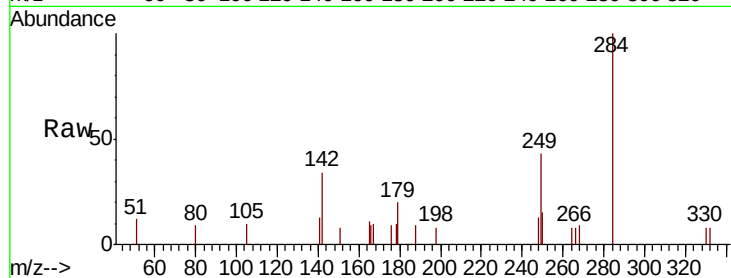
Tot Ion:284 Resp: 779

Ion Ratio Lower Upper

284 100

142 35.8 25.5 38.3

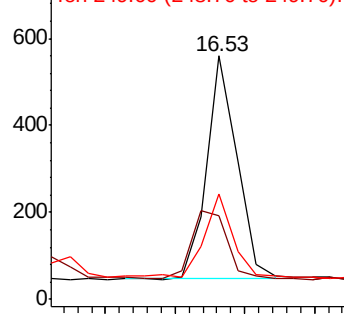
249 32.6 26.6 39.8



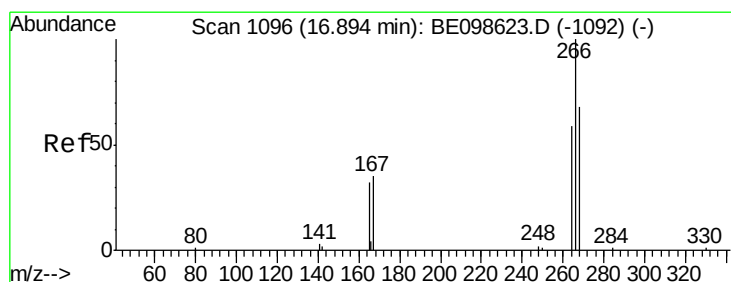
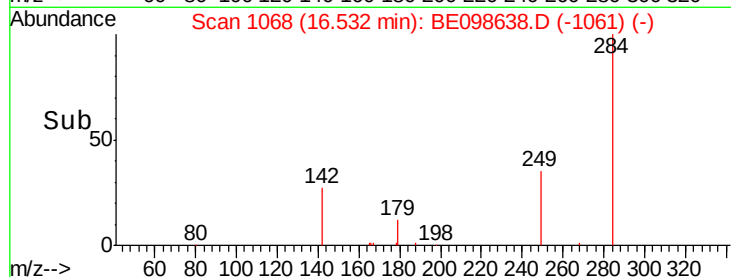
Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->



#22

Pentachlorophenol

Concen: 0.488 ng

RT: 16.89 min Scan# 1095

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

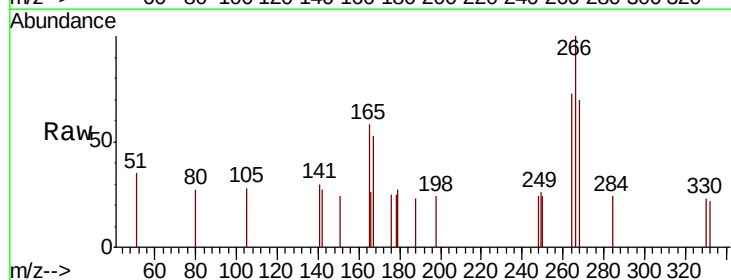
Tgt Ion:266 Resp: 385

Ion Ratio Lower Upper

266 100

264 73.1 53.7 80.5

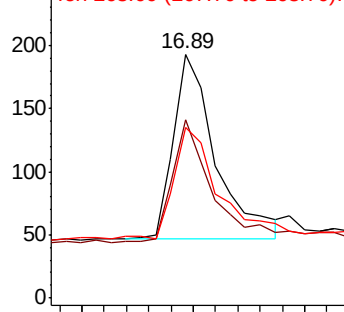
268 69.9 59.8 89.8



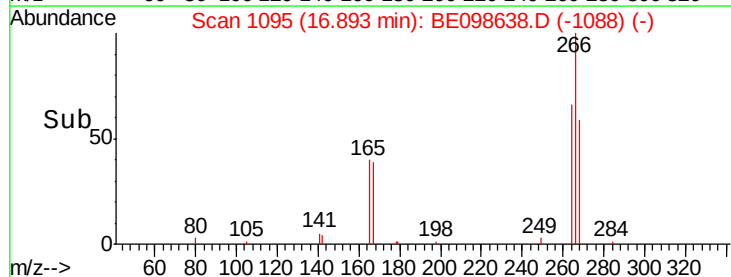
Abundance Ion 266.00 (265.70 to 266.70): E

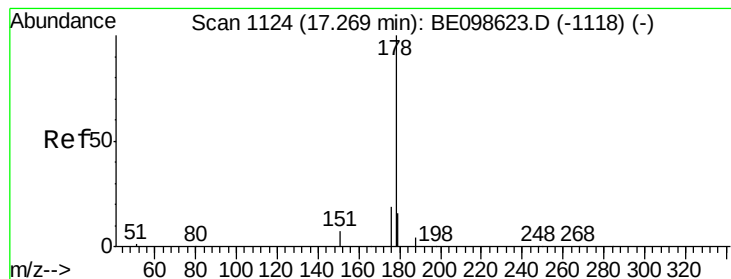
Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



Time-->





#23

Phenanthrene

Concen: 0.254 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

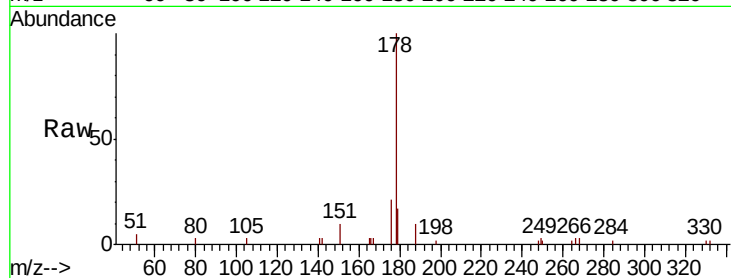
Tot Ion:178 Resp: 3084

Ion Ratio Lower Upper

178 100

176 19.9 15.9 23.9

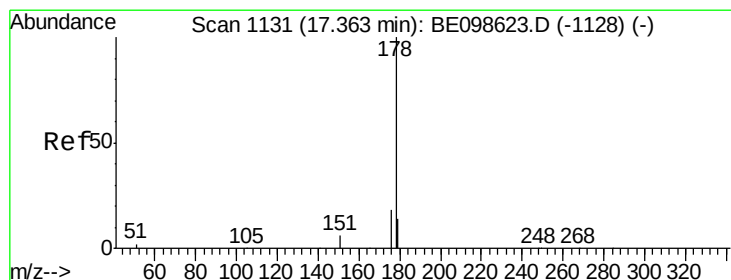
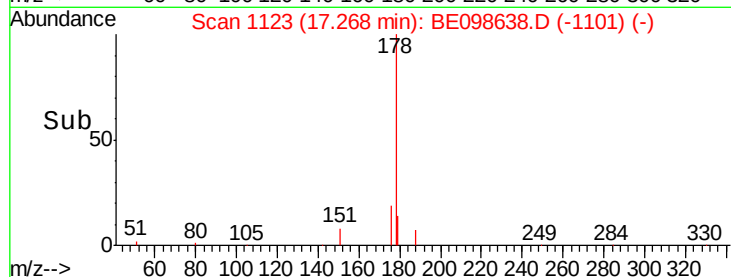
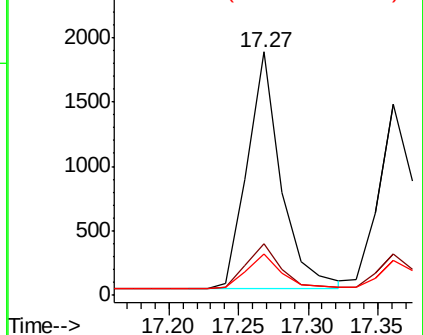
179 15.6 12.2 18.4



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: 0.242 ng

RT: 17.36 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

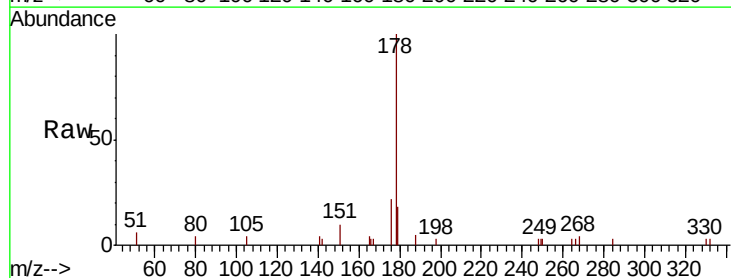
Tgt Ion:178 Resp: 2509

Ion Ratio Lower Upper

178 100

176 19.7 14.9 22.3

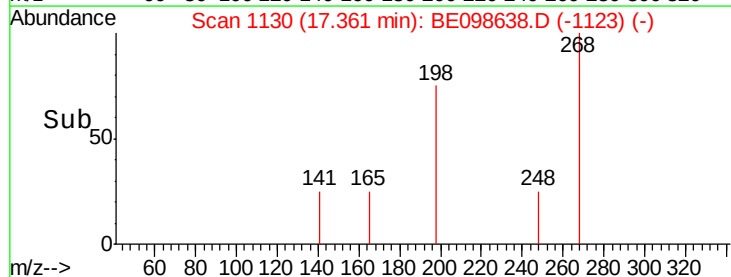
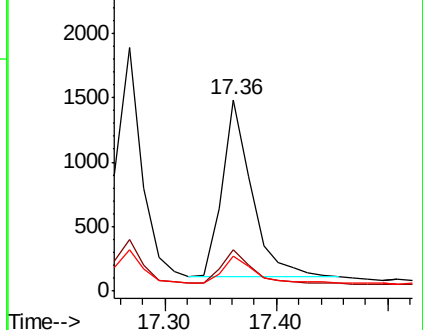
179 16.0 11.8 17.8

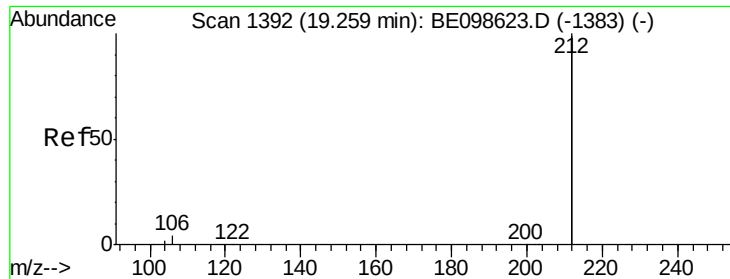


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.258 ng

RT: 19.26 min Scan# 1391

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

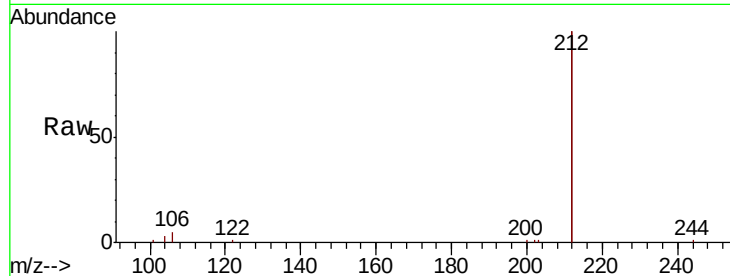
Tot Ion:212 Resp: 16355

Ion Ratio Lower Upper

212 100

106 2.0 1.7 2.5

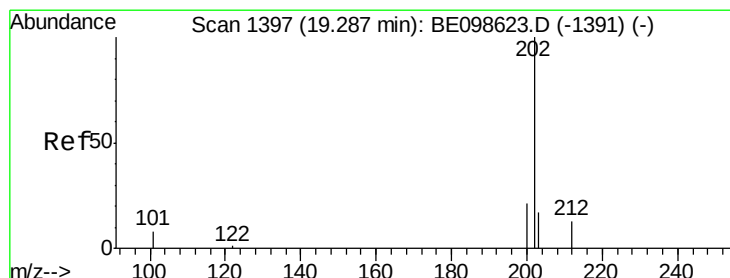
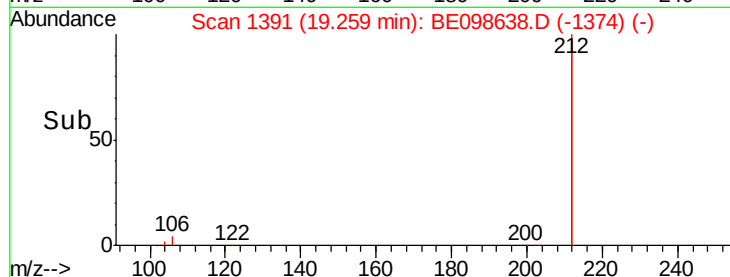
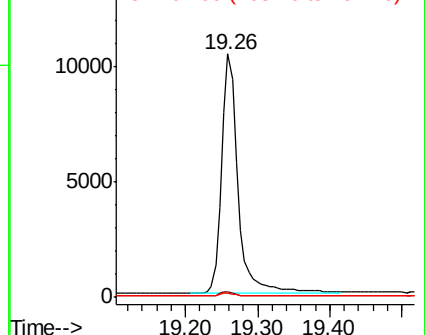
104 1.3 1.0 1.6



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: 0.258 ng

RT: 19.29 min Scan# 1396

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

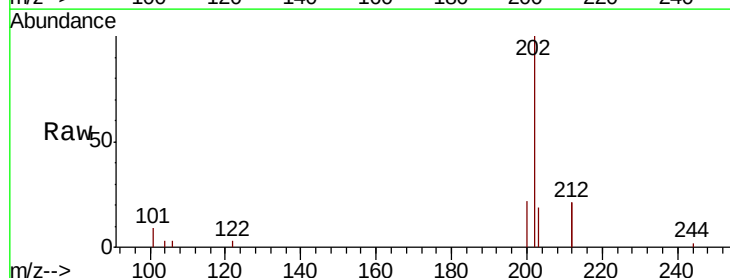
Tgt Ion:202 Resp: 4031

Ion Ratio Lower Upper

202 100

101 7.8 6.7 10.1

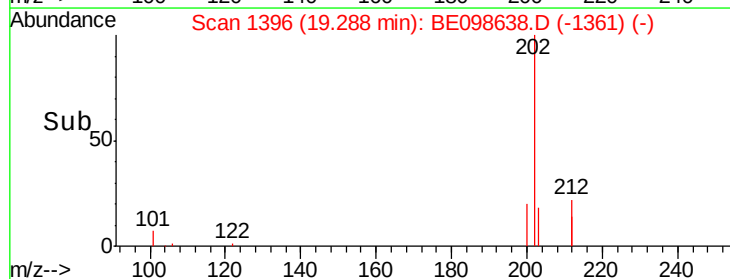
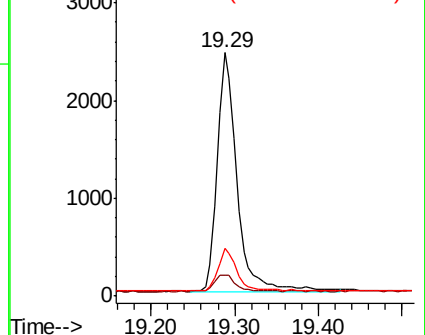
203 17.2 13.3 19.9

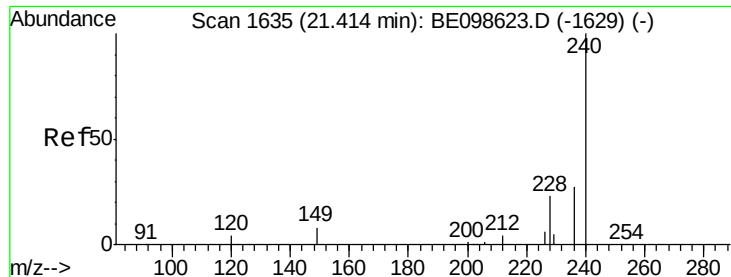


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

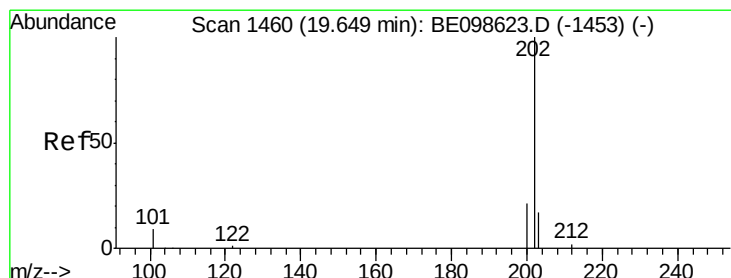
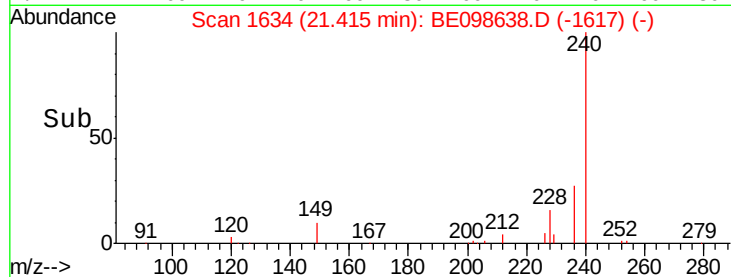
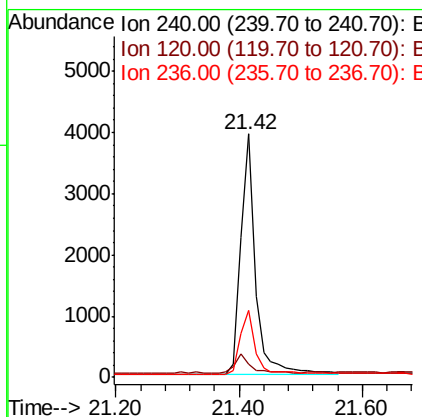
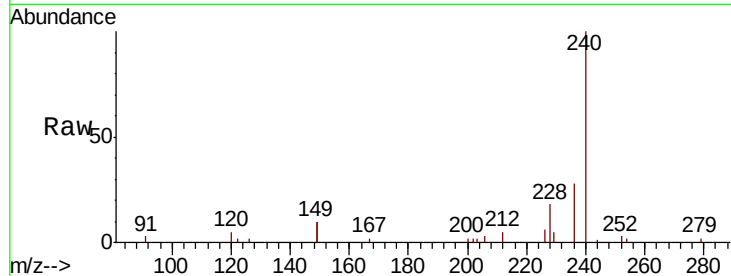




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.42 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: BE098638.D
 Acq: 16 Jan 2019 19:01

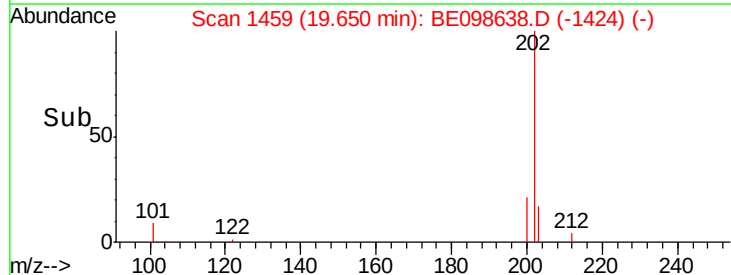
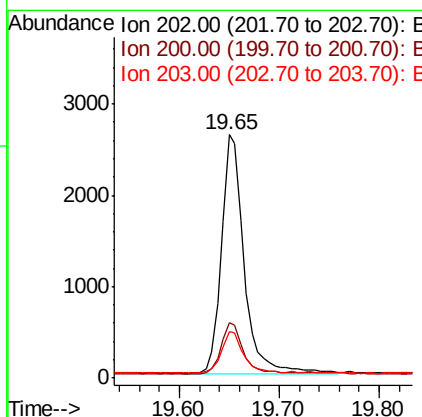
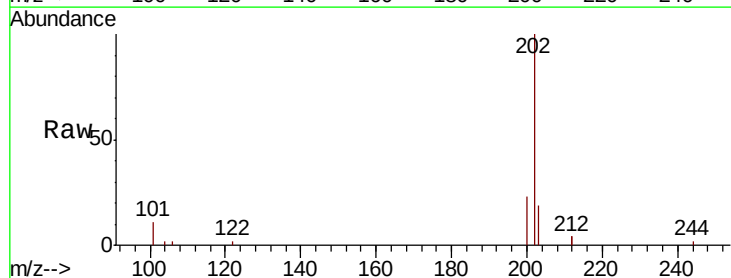
Instrument :
 BNA_E
 ClientSampleId :
 PB116433BS

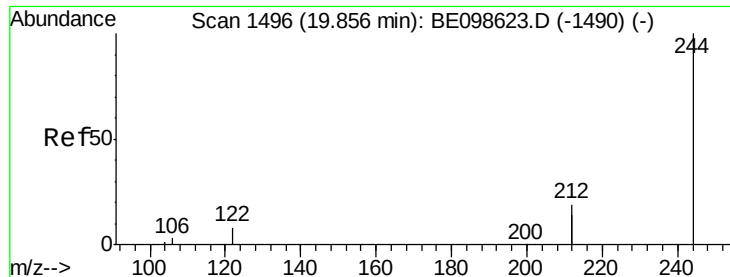
Tot Ion:240 Resp: 6410
 Ion Ratio Lower Upper
 240 100
 120 5.3 4.7 7.1
 236 27.6 21.9 32.9



#28
 Pyrene
 Concen: 0.233 ng
 RT: 19.65 min Scan# 1459
 Delta R.T. 0.00 min
 Lab File: BE098638.D
 Acq: 16 Jan 2019 19:01

Tgt Ion:202 Resp: 4104
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.0 25.6
 203 17.1 13.8 20.8





#29

Terphenyl-d14

Concen: 0.248 ng

RT: 19.86 min Scan# 1495

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

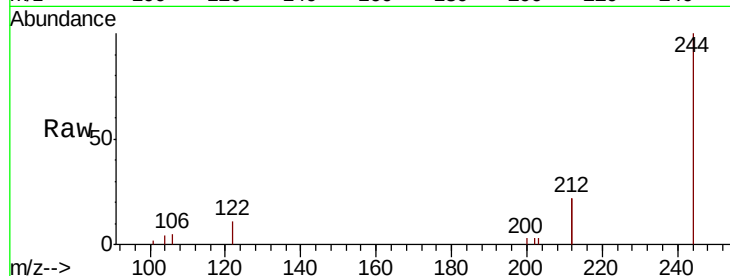
Tot Ion:244 Resp: 3521

Ion Ratio Lower Upper

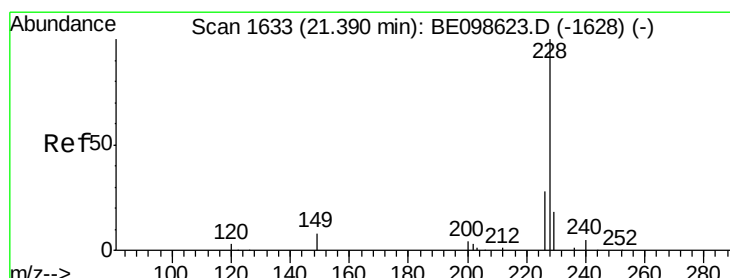
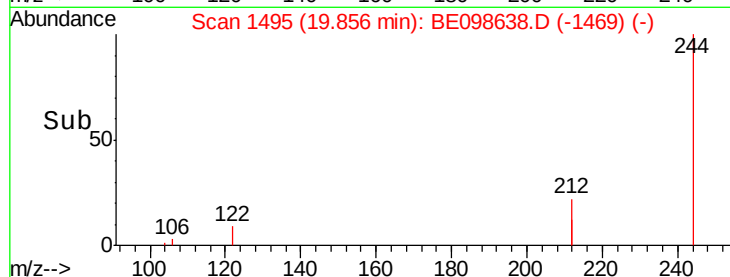
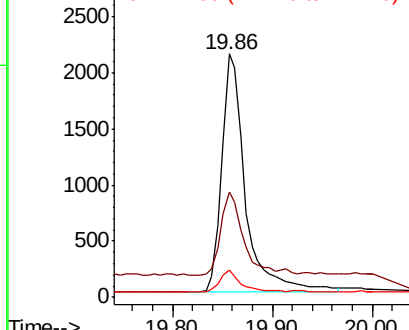
244 100

212 43.2 29.4 44.2

122 11.3 7.1 10.7#



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: 0.266 ng

RT: 21.39 min Scan# 1632

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

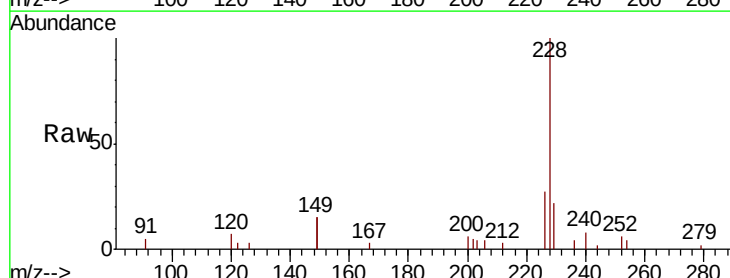
Tgt Ion:228 Resp: 4590

Ion Ratio Lower Upper

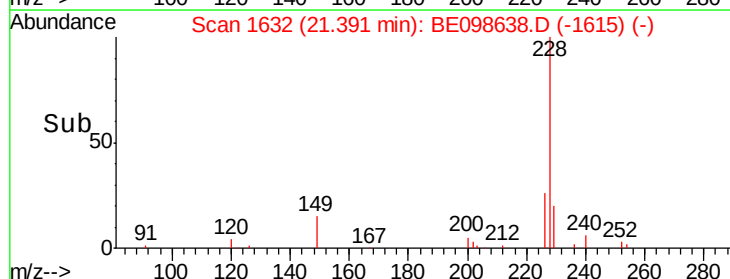
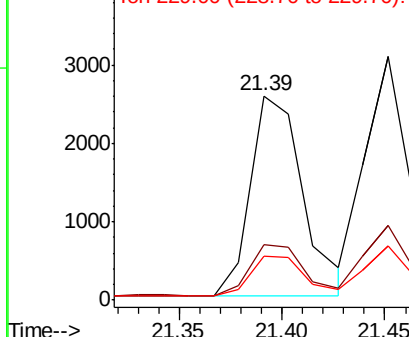
228 100

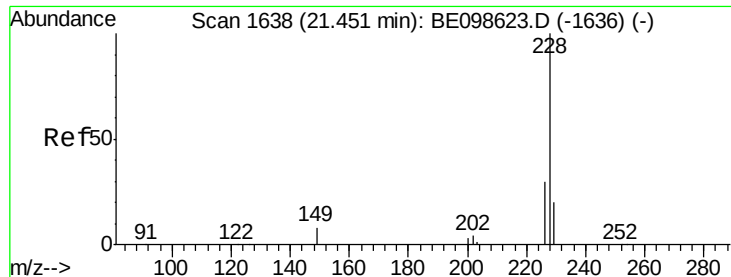
226 27.3 23.0 34.4

229 21.7 15.0 22.6



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: 0.264 ng

RT: 21.45 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

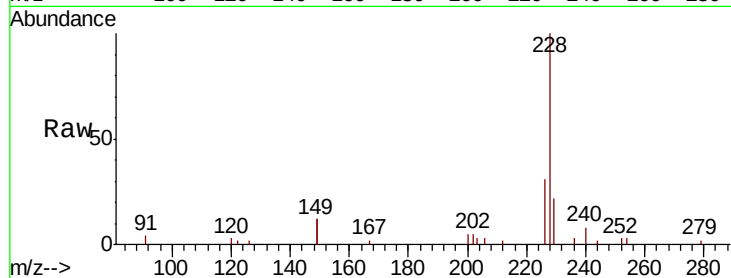
Tot Ion:228 Resp: 4719

Ion Ratio Lower Upper

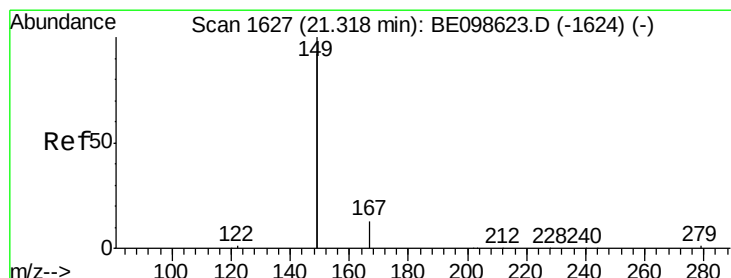
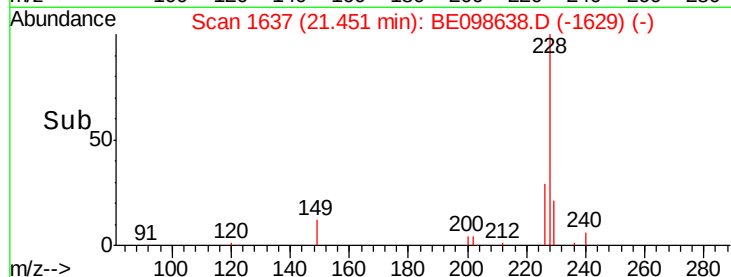
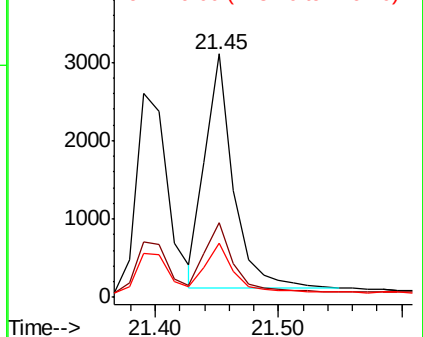
228 100

226 30.8 24.6 36.8

229 22.1 16.4 24.6



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: 0.192 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

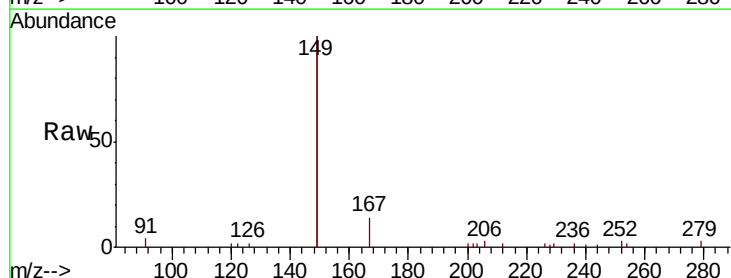
Tgt Ion:149 Resp: 7011

Ion Ratio Lower Upper

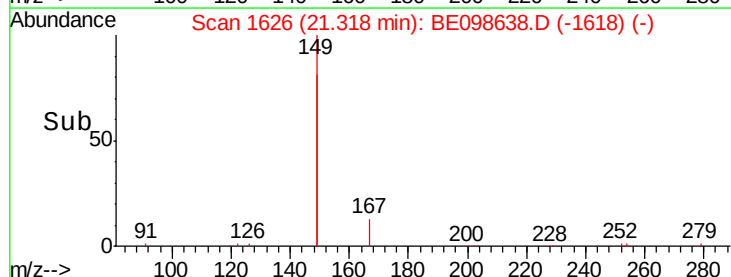
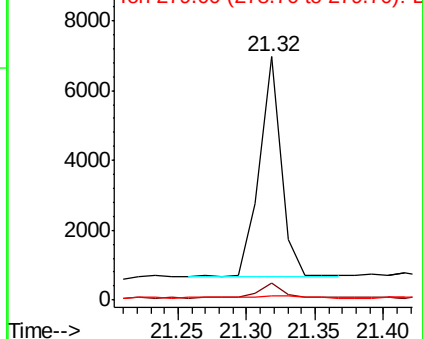
149 100

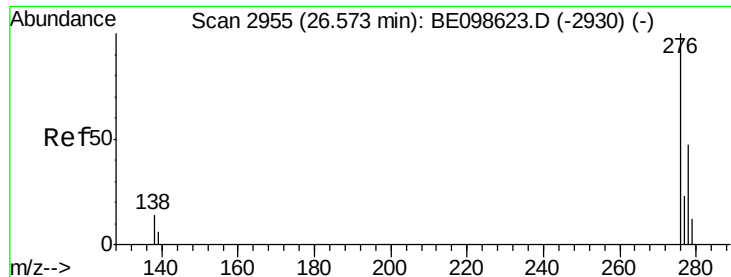
167 7.1 5.4 8.2

279 1.6 1.0 1.4#



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: 0.317 ng

RT: 26.58 min Scan# 2956

Delta R.T. 0.01 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

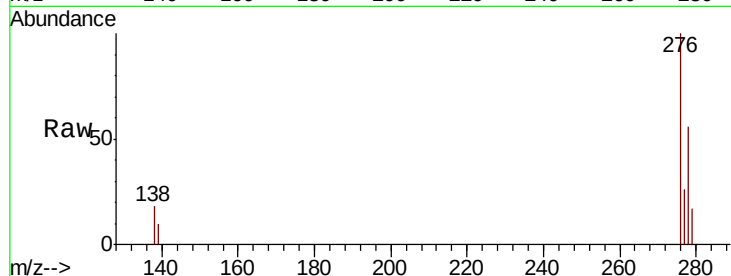
Tot Ion:276 Resp: 5846

Ion Ratio Lower Upper

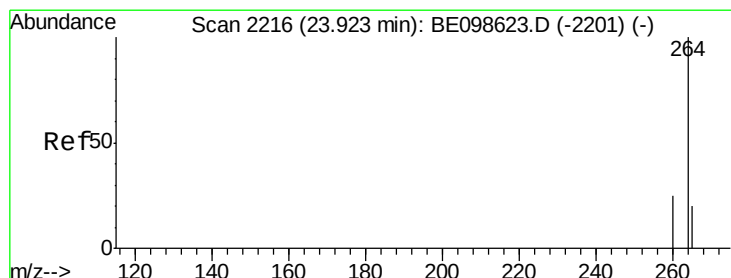
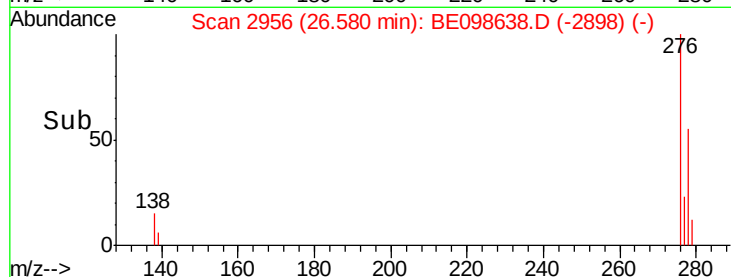
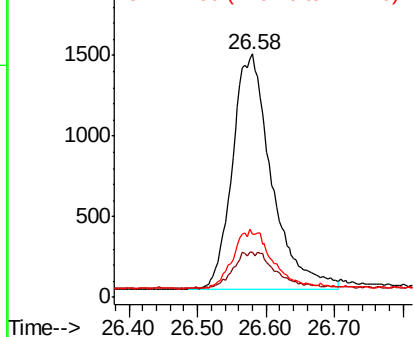
276 100

138 6.0 13.3 19.9#

277 9.7 19.4 29.0#



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: 23.92 min Scan# 2215

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

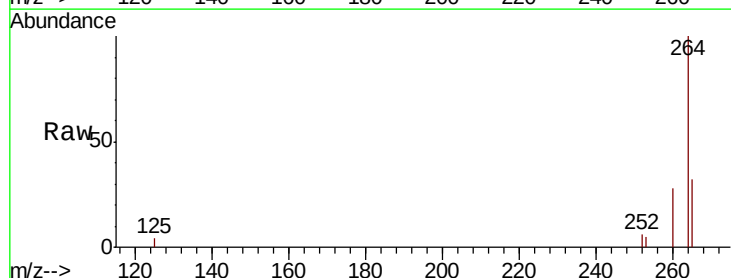
Tgt Ion:264 Resp: 6968

Ion Ratio Lower Upper

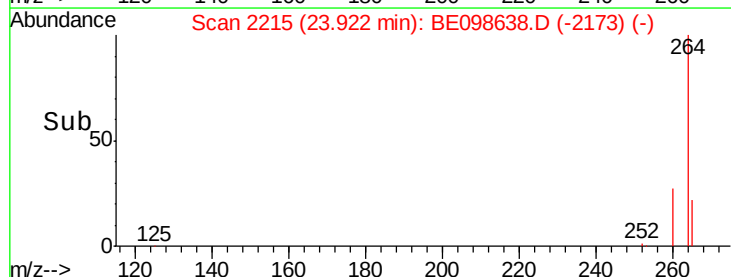
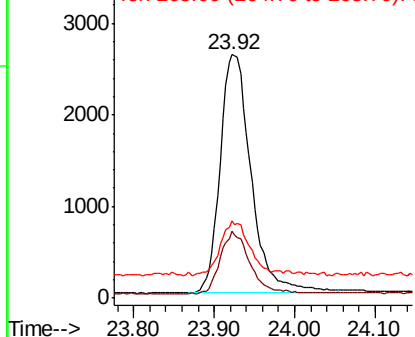
264 100

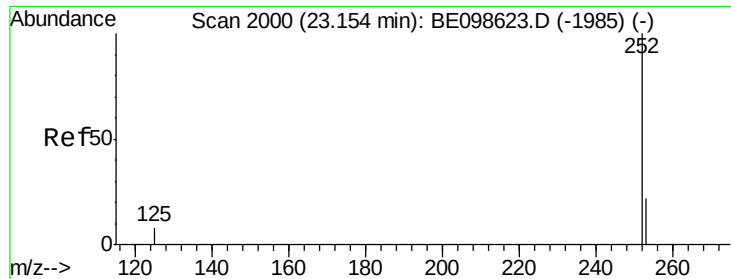
260 27.8 20.5 30.7

265 31.6 22.3 33.5



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: 0.263 ng

RT: 23.15 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

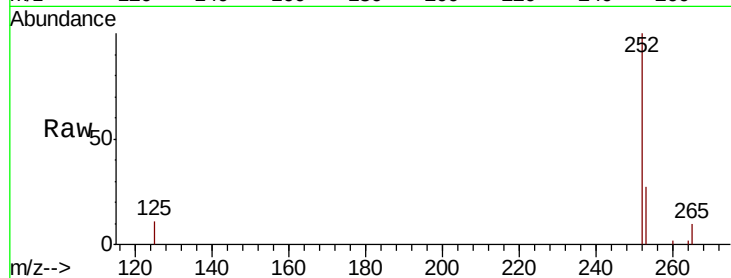
Tot Ion:252 Resp: 5008

Ion Ratio Lower Upper

252 100

253 27.0 19.4 29.0

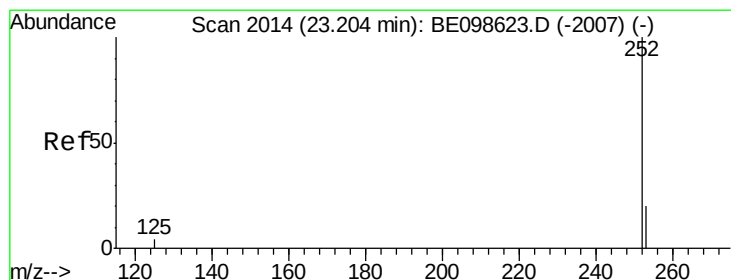
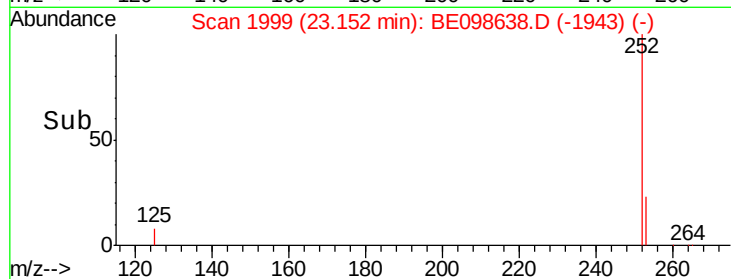
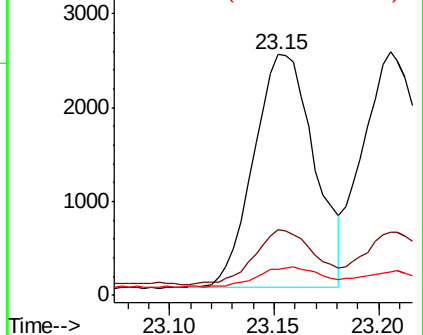
125 10.9 8.2 12.4



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



#36

Benzo(k)fluoranthene

Concen: 0.266 ng

RT: 23.21 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

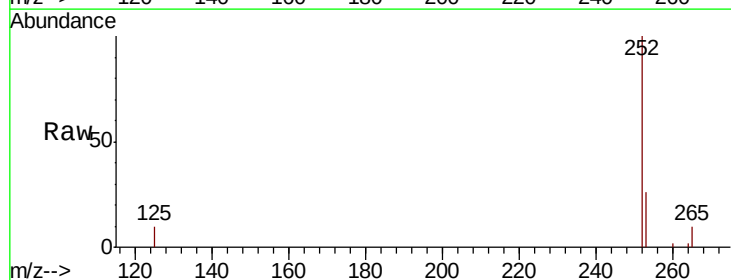
Tgt Ion:252 Resp: 5518

Ion Ratio Lower Upper

252 100

253 26.1 19.0 28.4

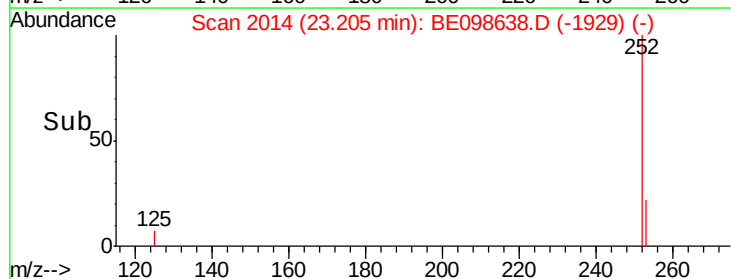
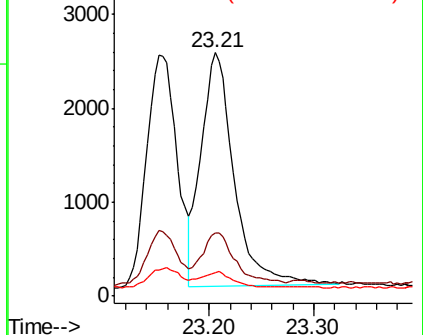
125 9.8 7.0 10.4

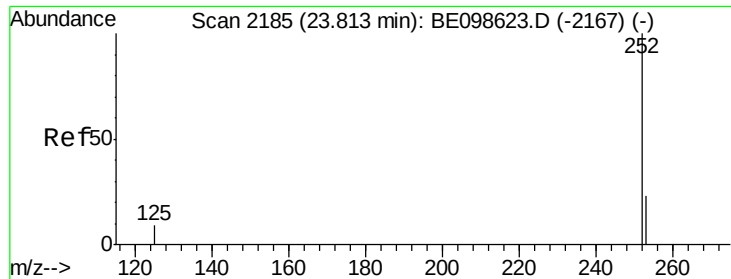


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.272 ng

RT: 23.81 min Scan# 2185

Delta R.T. 0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

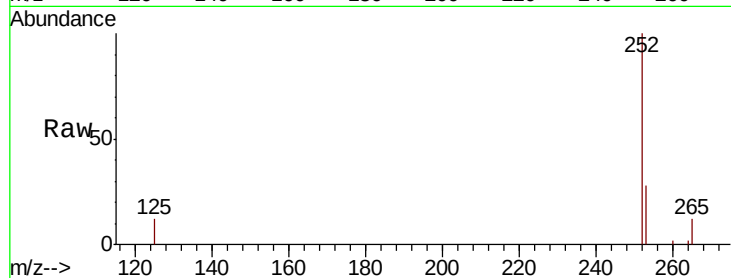
Tot Ion:252 Resp: 5080

Ion Ratio Lower Upper

252 100

253 27.6 21.0 31.4

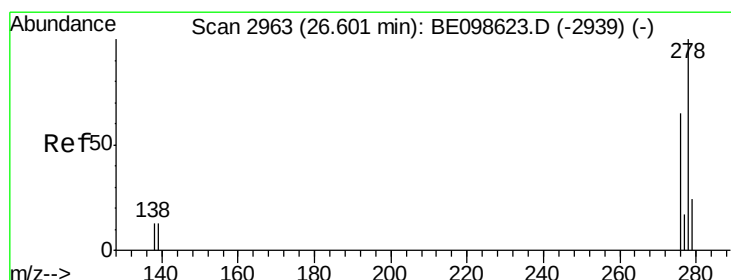
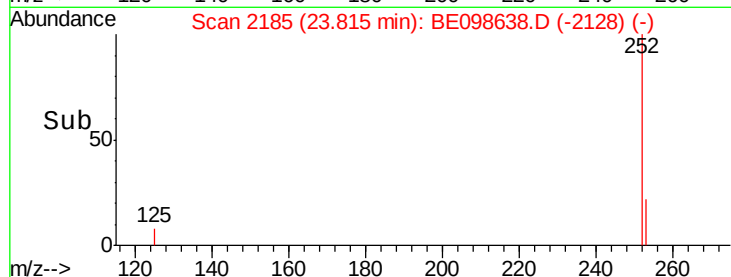
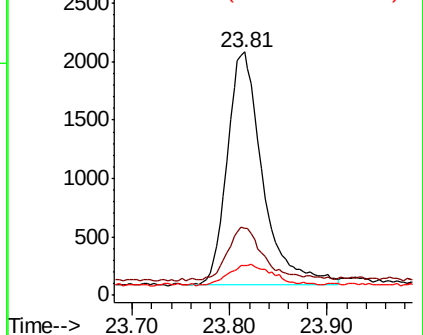
125 12.1 9.2 13.8



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: 0.283 ng

RT: 26.60 min Scan# 2961

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

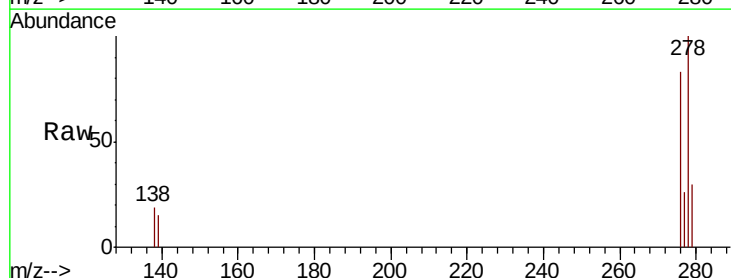
Tgt Ion:278 Resp: 4678

Ion Ratio Lower Upper

278 100

139 15.0 12.7 19.1

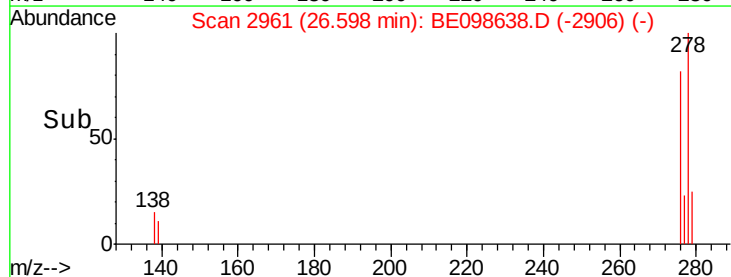
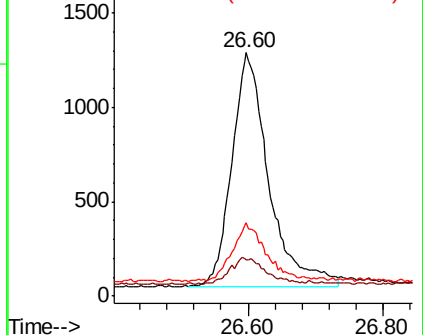
279 30.0 22.0 33.0

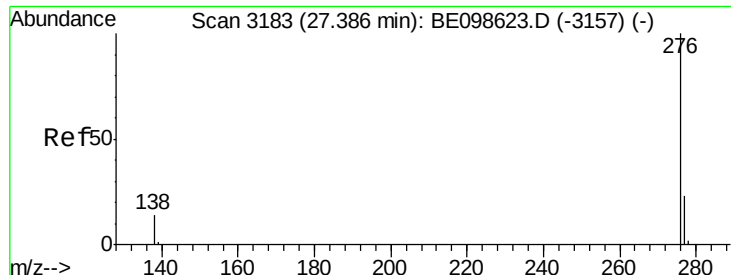


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.288 ng

RT: 27.38 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE098638.D

Acq: 16 Jan 2019 19:01

Instrument :

BNA_E

ClientSampleId :

PB116433BS

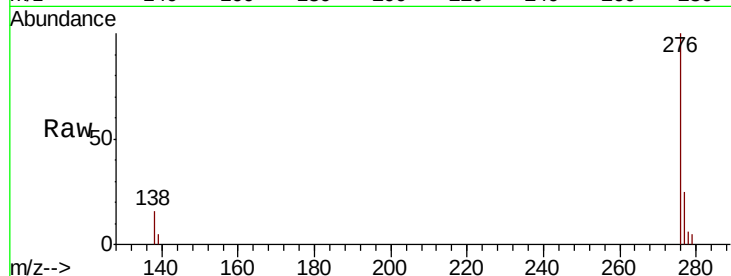
Tot Ion:276 Resp: 5212

Ion Ratio Lower Upper

276 100

277 25.5 20.3 30.5

138 16.1 13.3 19.9



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

