

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE121418\
 Data File : BE098437.D
 Acq On : 14 Dec 2018 15:56
 Operator : SJ/JU
 Sample : PB115586BSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB115586BSD

Quant Time: Dec 14 23:31:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	973	0.40	ng	0.00
7) Naphthalene-d8	10.65	136	4007	0.40	ng	-0.01
13) Acenaphthene-d10	14.53	164	2366	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	6228	0.40	ng	-0.01
27) Chrysene-d12	21.46	240	8235	0.40	ng	0.00
34) Perylene-d12	24.00	264	7708	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	591	0.26	ng	0.01
5) Phenol-d6	7.06	99	755	0.23	ng	0.01
8) Nitrobenzene-d5	9.03	82	760	0.21	ng	0.01
11) 2-Methylnaphthalene-d10	12.27	152	1631	0.25	ng	0.00
14) 2,4,6-Tribromophenol	16.02	330	165	0.19	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	2311	0.23	ng	0.00
25) Fluoranthene-d10	19.30	212	19905	0.25	ng	0.00
29) Terphenyl-d14	19.90	244	3625	0.18	ng	0.00

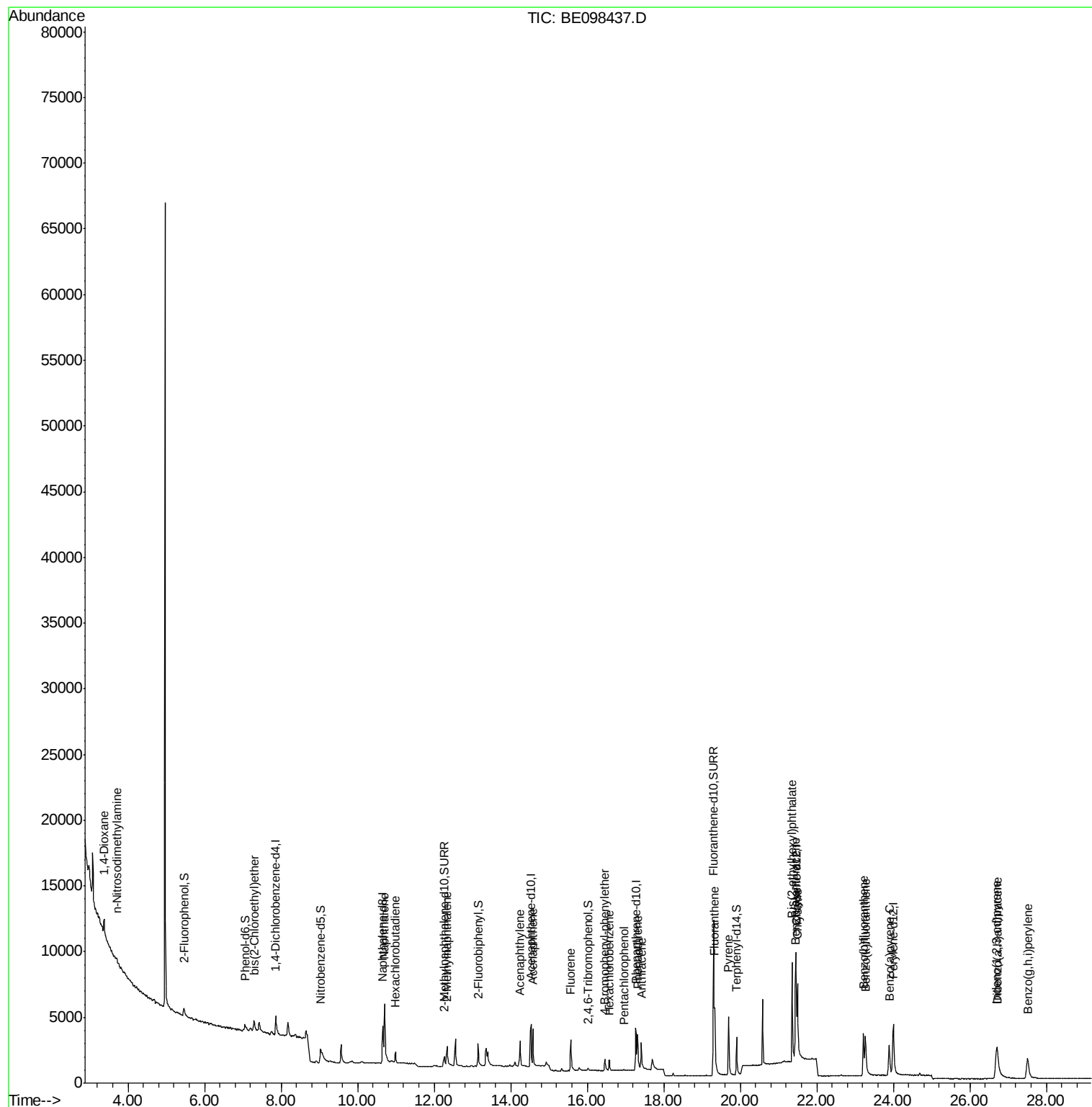
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.37	88	578	0.343	ng	# 42
3) n-Nitrosodimethylamine	3.71	42	306	0.202	ng	# 100
6) bis(2-Chloroethyl)ether	7.29	93	585	0.191	ng	96
9) Naphthalene	10.71	128	9603	0.238	ng	# 97
10) Hexachlorobutadiene	10.99	225	589	0.229	ng	97
12) 2-Methylnaphthalene	12.34	142	1457	0.222	ng	96
16) Acenaphthylene	14.24	152	2562	0.231	ng	100
17) Acenaphthene	14.59	154	1408	0.211	ng	95
18) Fluorene	15.57	166	2003	0.225	ng	98
20) 4-Bromophenyl-phenylether	16.46	248	610	0.182	ng	95
21) Hexachlorobenzene	16.58	284	761	0.211	ng	96
22) Pentachlorophenol	16.95	266	91	0.177	ng	# 87
23) Phenanthrene	17.31	178	3387	0.224	ng	99
24) Anthracene	17.41	178	2715	0.201	ng	98
26) Fluoranthene	19.33	202	4937	0.247	ng	99
28) Pyrene	19.69	202	5005	0.194	ng	99
30) Benzo(a)anthracene	21.44	228	5406	0.231	ng	99
31) Chrysene	21.50	228	5608	0.228	ng	96
32) Bis(2-ethylhexyl)phthalate	21.35	149	9098	0.191	ng	99
33) Indeno(1,2,3-cd)pyrene	26.69	276	5549	0.227	ng	# 83
35) Benzo(b)fluoranthene	23.22	252	4926	0.234	ng	97
36) Benzo(k)fluoranthene	23.27	252	6248	0.254	ng	97
37) Benzo(a)pyrene	23.89	252	5346	0.246	ng	95
38) Dibenzo(a,h)anthracene	26.72	278	4135	0.202	ng	95
39) Benzo(g,h,i)perylene	27.51	276	4911	0.238	ng	98

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

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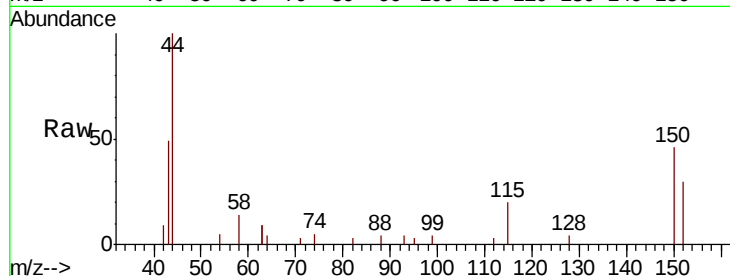


#1

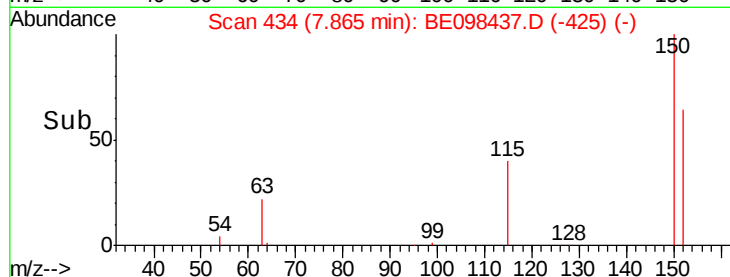
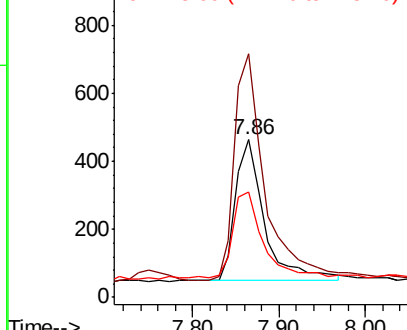
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. 0.00 min
Lab File: BE098437.D
Acq: 14 Dec 2018 15:56

Instrument :
BNA_E
ClientSampleId :
PB115586BSD

Tgt Ion:152 Resp: 973
Ion Ratio Lower Upper
152 100
150 154.3 124.2 186.4
115 66.8 53.9 80.9



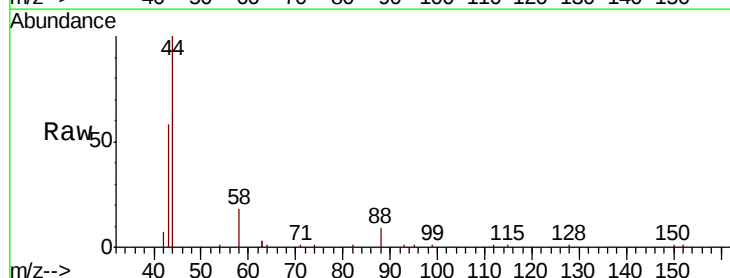
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



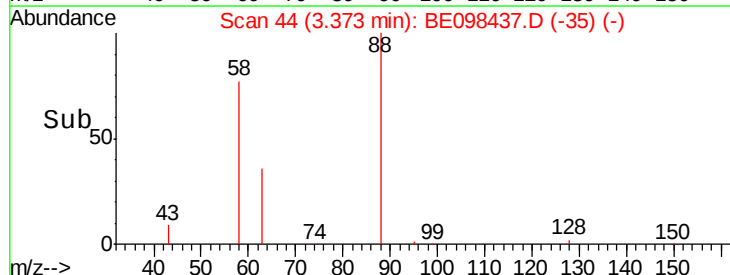
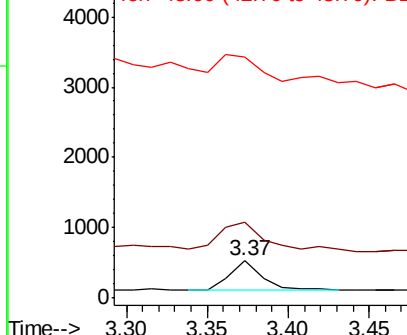
#2

1,4-Dioxane
Concen: 0.343 ng
RT: 3.37 min Scan# 44
Delta R.T. 0.00 min
Lab File: BE098437.D
Acq: 14 Dec 2018 15:56

Tgt Ion: 88 Resp: 578
Ion Ratio Lower Upper
88 100
58 119.7 75.0 112.6#
43 127.3 38.3 57.5#



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: 0.202 ng

RT: 3.71 min Scan# 73

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

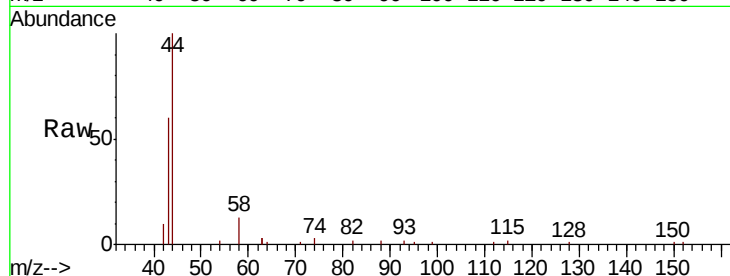
Tgt Ion: 42 Resp: 306

Ion Ratio Lower Upper

42 100

74 77.8 0.0 0.0#

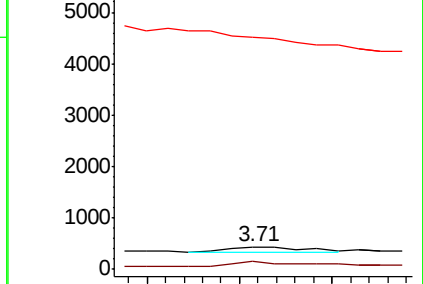
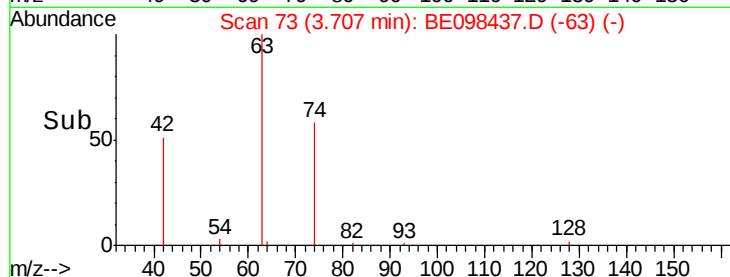
44 0.0 0.0 0.0



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



#4

2-Fluorophenol

Concen: 0.260 ng

RT: 5.46 min Scan# 225

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

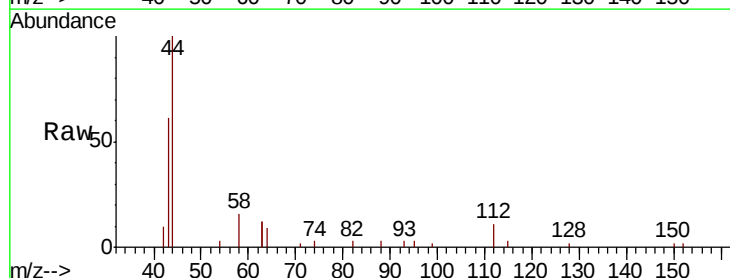
Tgt Ion: 112 Resp: 591

Ion Ratio Lower Upper

112 100

64 79.5 59.8 89.8

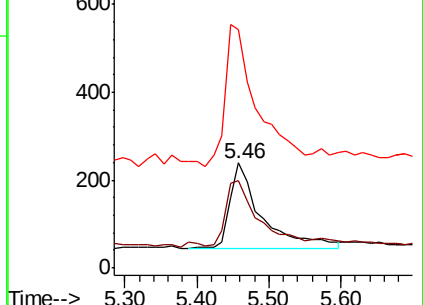
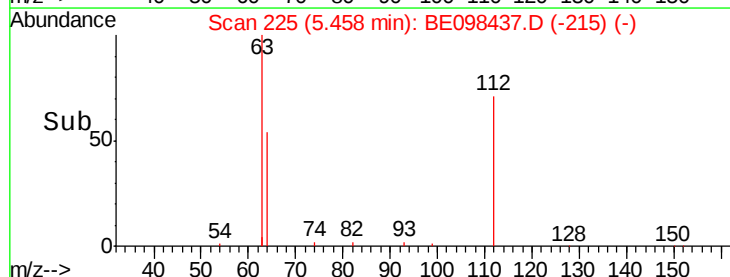
63 172.8 133.7 200.5



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





#5

Phenol-d6

Concen: 0.234 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

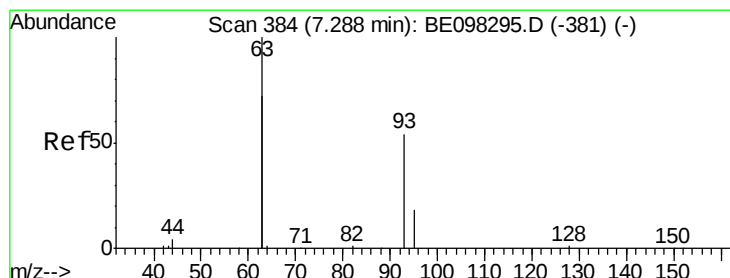
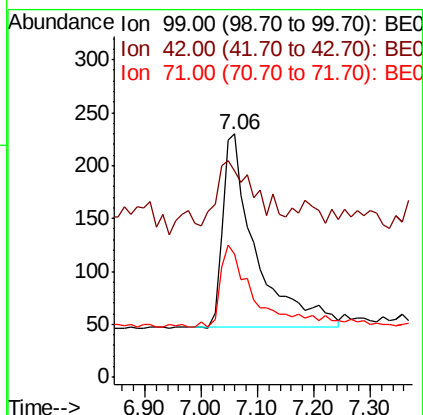
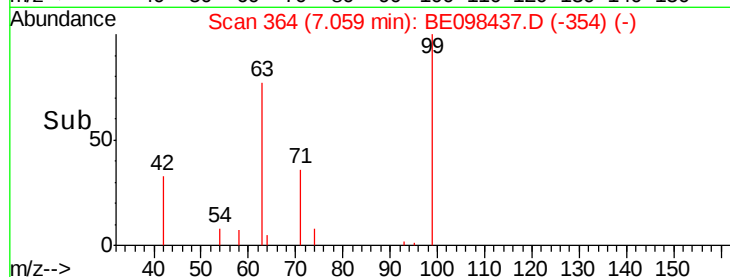
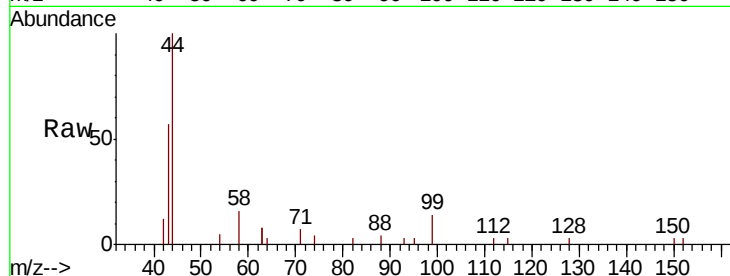
Tgt Ion: 99 Resp: 755

Ion Ratio Lower Upper

99 100

42 38.0 26.3 39.5

71 45.2 33.6 50.4



#6

bis(2-Chloroethyl)ether

Concen: 0.191 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

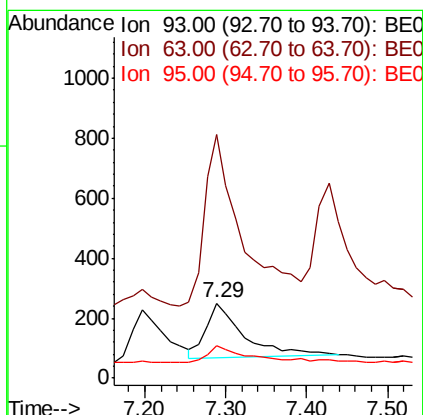
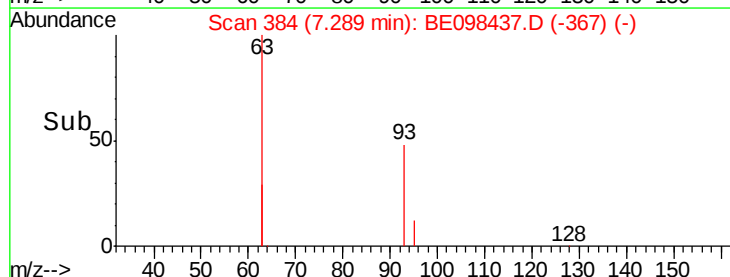
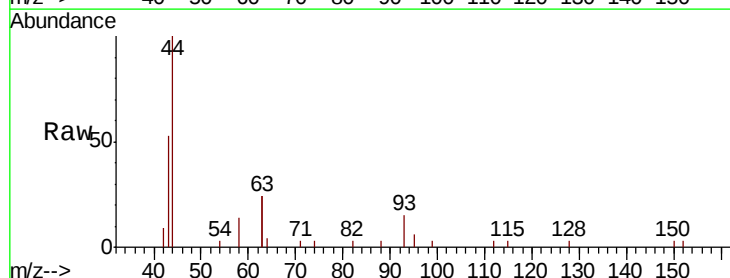
Tgt Ion: 93 Resp: 585

Ion Ratio Lower Upper

93 100

63 321.0 264.4 396.6

95 33.5 26.6 40.0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

Tgt Ion: 136 Resp: 4007

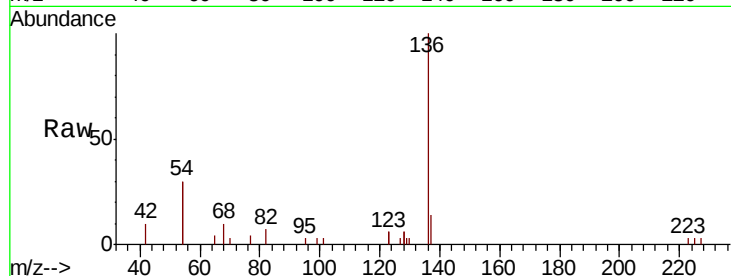
Ion Ratio Lower Upper

136 100

137 13.7 9.2 13.8

54 59.9 28.4 42.6#

68 9.5 5.4 8.0#

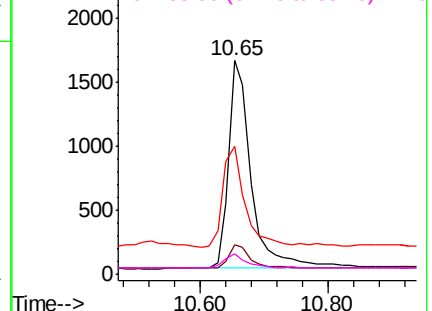
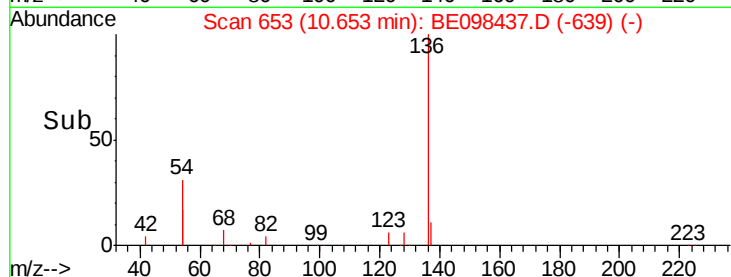


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.208 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

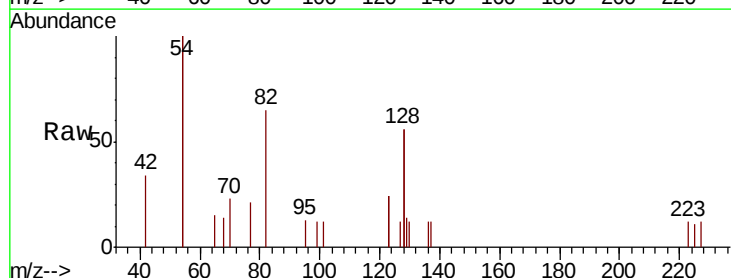
Tgt Ion: 82 Resp: 760

Ion Ratio Lower Upper

82 100

128 174.1 102.4 153.6#

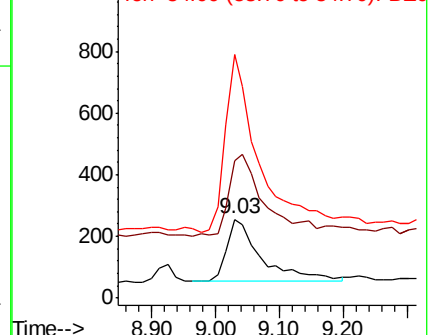
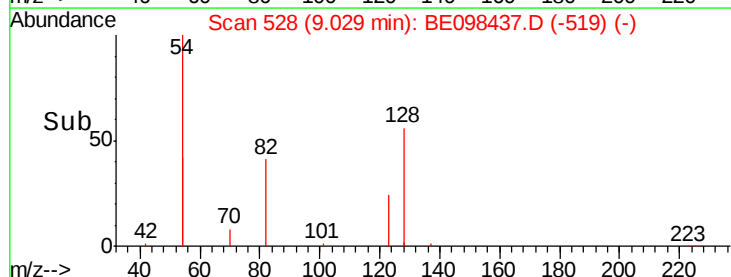
54 309.8 221.8 332.8



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.238 ng

RT: 10.71 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

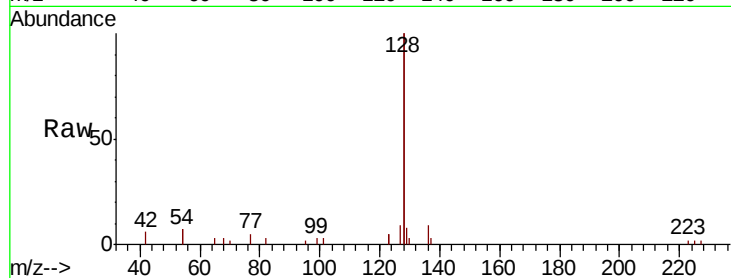
Tgt Ion:128 Resp: 9603

Ion Ratio Lower Upper

128 100

129 3.8 2.5 3.7#

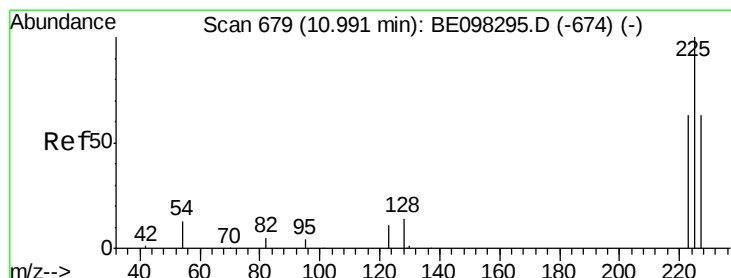
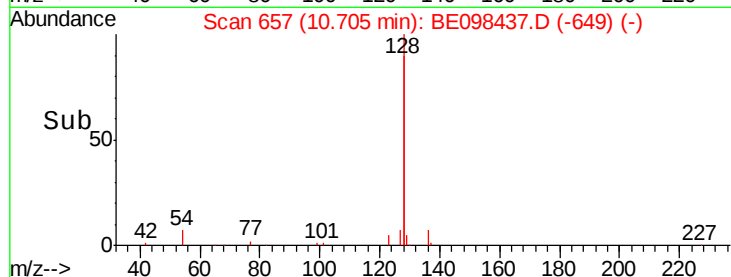
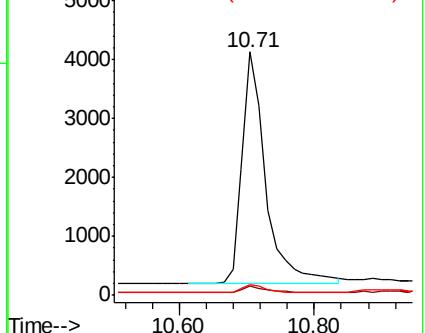
127 4.5 2.7 4.1#



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: 0.229 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

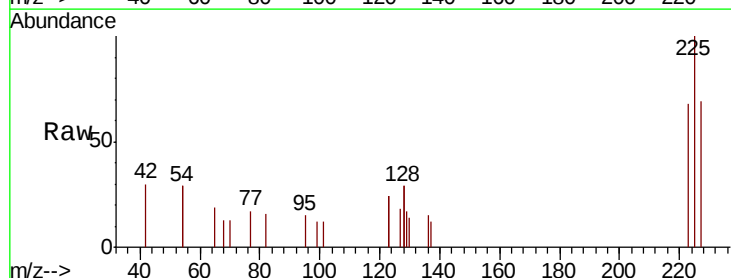
Tgt Ion:225 Resp: 589

Ion Ratio Lower Upper

225 100

223 65.0 49.4 74.0

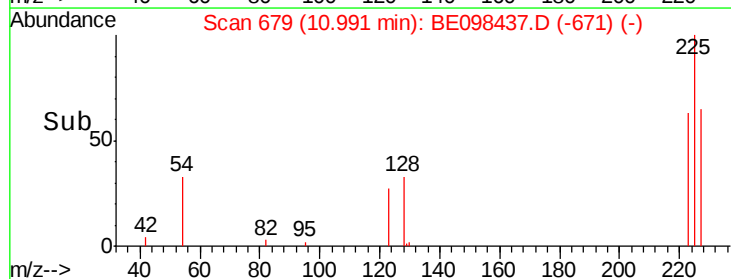
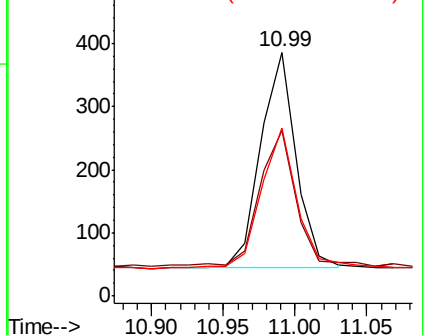
227 66.4 52.0 78.0

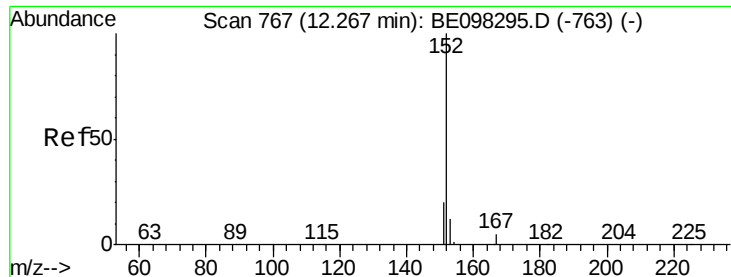


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

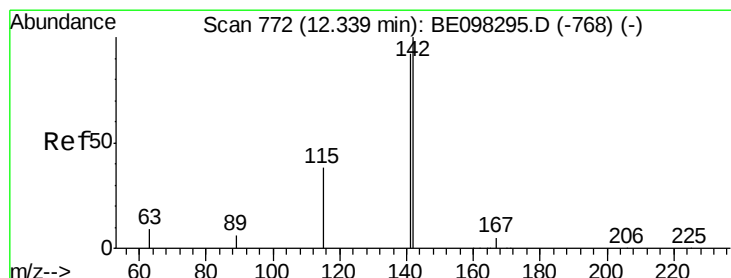
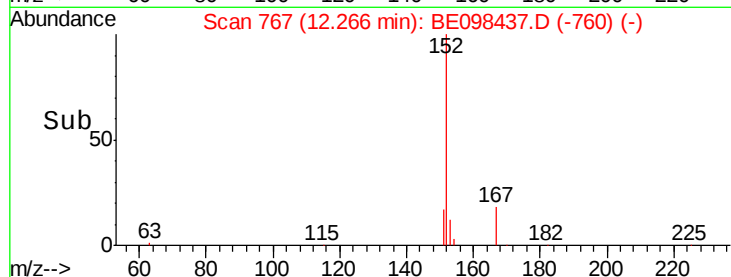
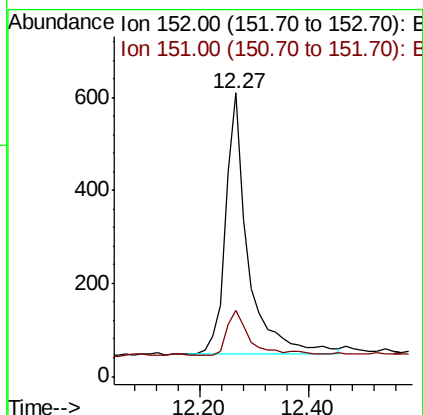
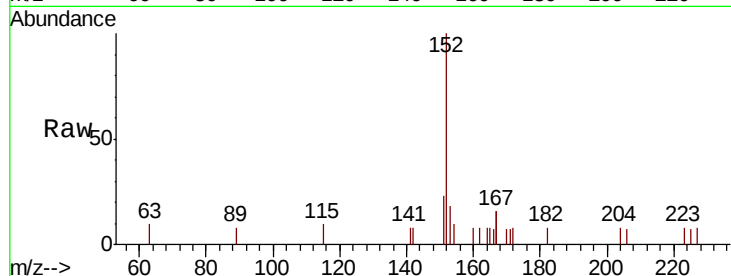




#11
 2-Methylnaphthalene-d10
 Concen: 0.250 ng
 RT: 12.27 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

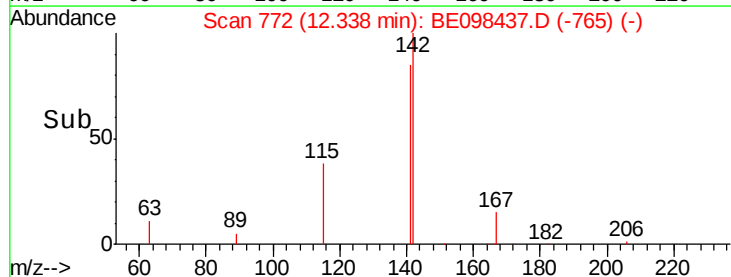
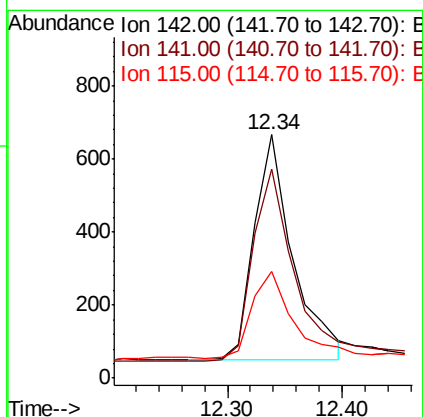
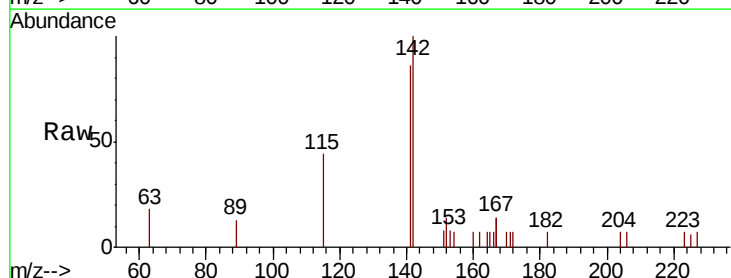
Instrument :
 BNA_E
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 PB115586BSD

Tgt Ion:152 Resp: 1631
 Ion Ratio Lower Upper
 152 100
 151 17.3 16.2 24.4



#12
 2-Methylnaphthalene
 Concen: 0.222 ng
 RT: 12.34 min Scan# 772
 Delta R.T. -0.00 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

Tgt Ion:142 Resp: 1457
 Ion Ratio Lower Upper
 142 100
 141 86.1 71.0 106.6
 115 43.6 32.2 48.2

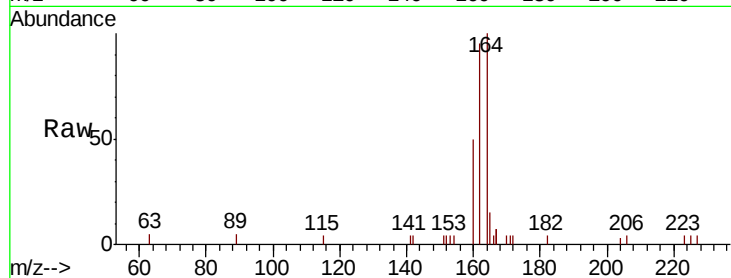




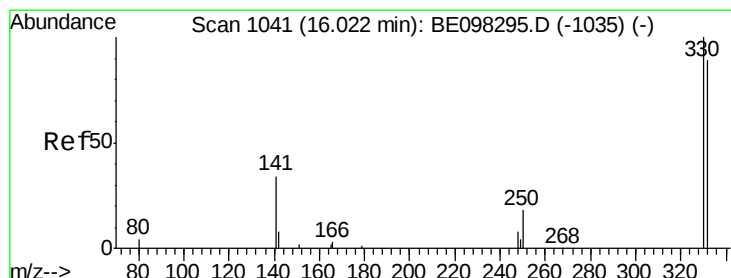
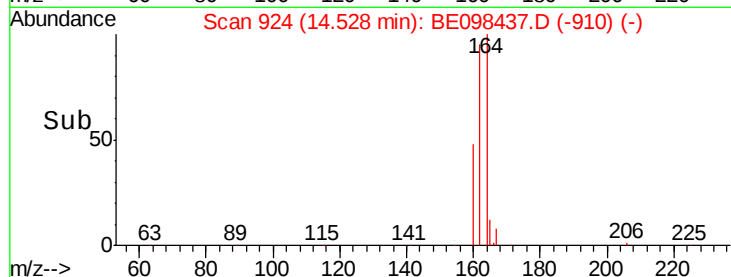
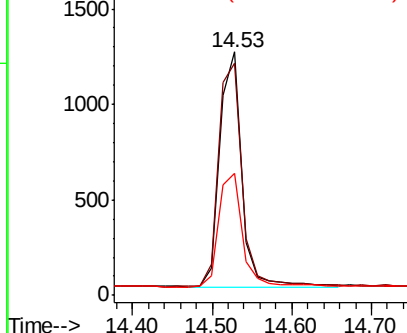
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.53 min Scan# 924
 Delta R.T. -0.00 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

Instrument :
 BNA_E
 ClientSampleId :
 PB115586BSD

Tgt Ion:164 Resp: 2366
 Ion Ratio Lower Upper
 164 100
 162 95.5 77.6 116.4
 160 50.1 36.0 54.0

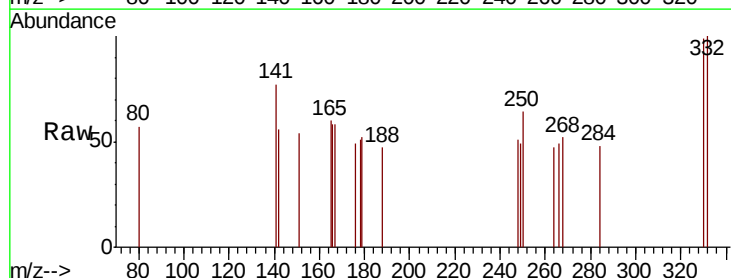


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

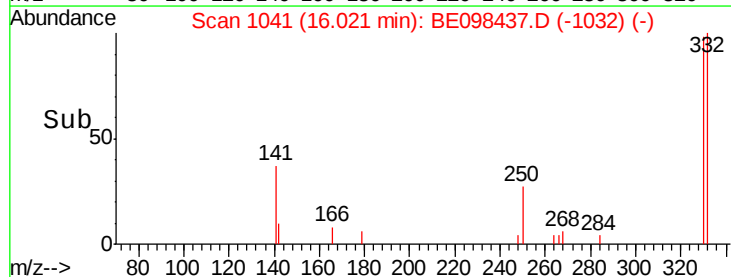
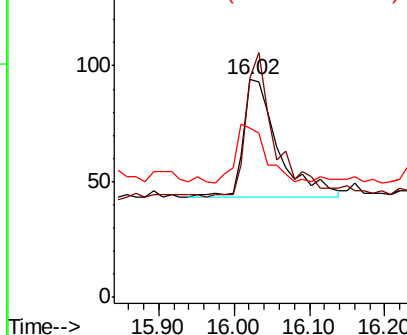


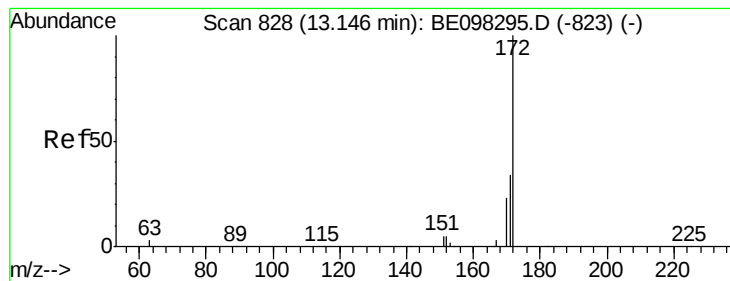
#14
 2,4,6-Tribromophenol
 Concen: 0.190 ng
 RT: 16.02 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

Tgt Ion:330 Resp: 165
 Ion Ratio Lower Upper
 330 100
 332 101.8 76.2 114.4
 141 0.0 39.0 58.4#



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: 0.232 ng

RT: 13.15 min Scan# 828

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

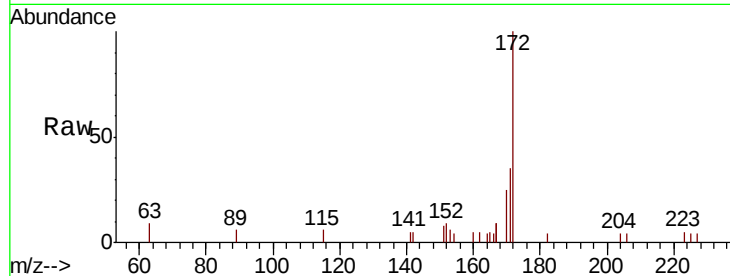
Tgt Ion:172 Resp: 2311

Ion Ratio Lower Upper

172 100

171 35.3 27.5 41.3

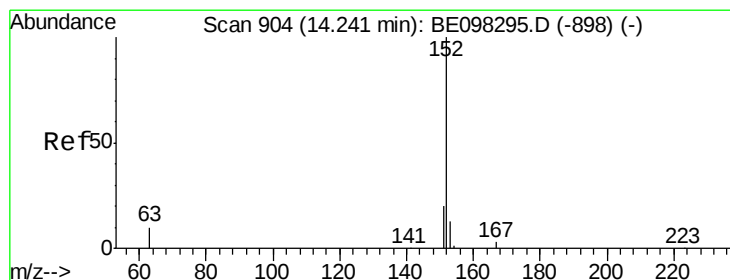
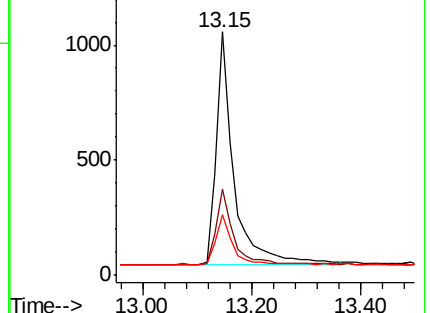
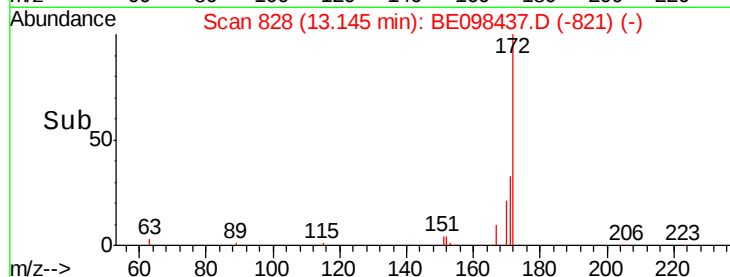
170 24.8 19.6 29.4



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: 0.231 ng

RT: 14.24 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

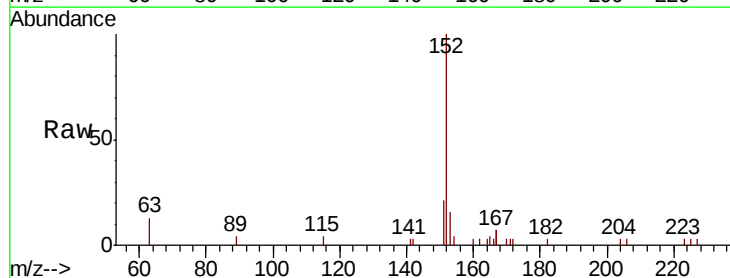
Tgt Ion:152 Resp: 2562

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3

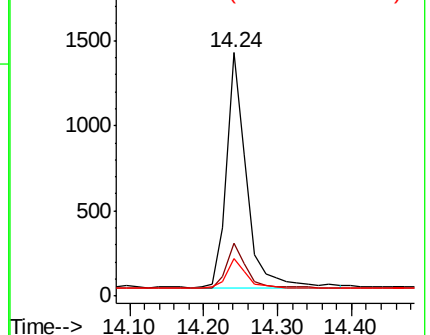
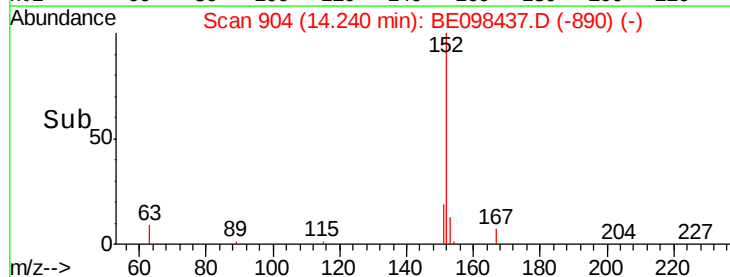
153 13.0 10.6 16.0



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: 0.211 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

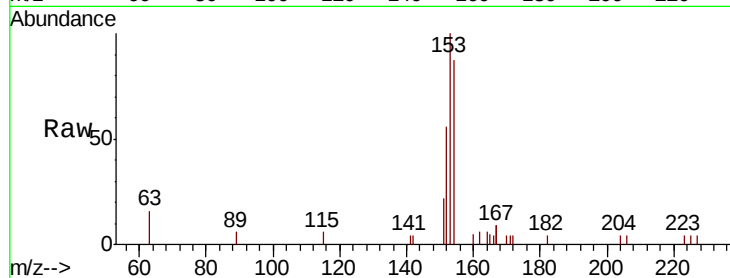
Tgt Ion:154 Resp: 1408

Ion Ratio Lower Upper

154 100

153 117.5 91.8 137.6

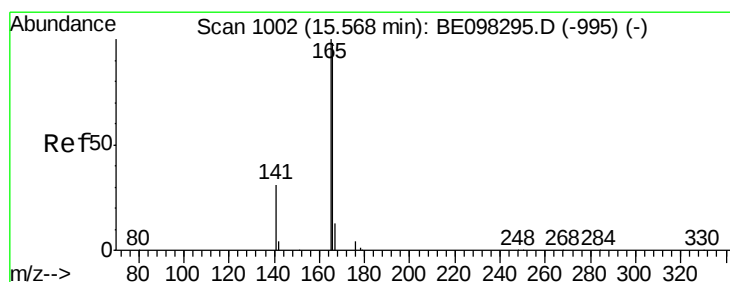
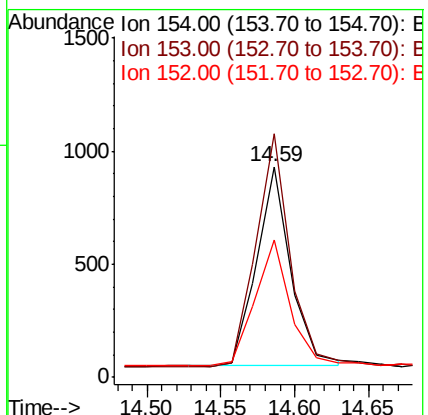
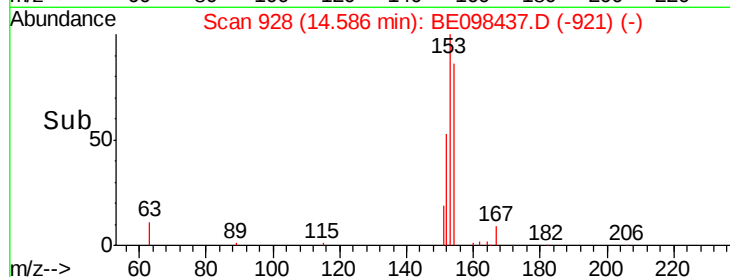
152 65.1 45.5 68.3



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: 0.225 ng

RT: 15.57 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

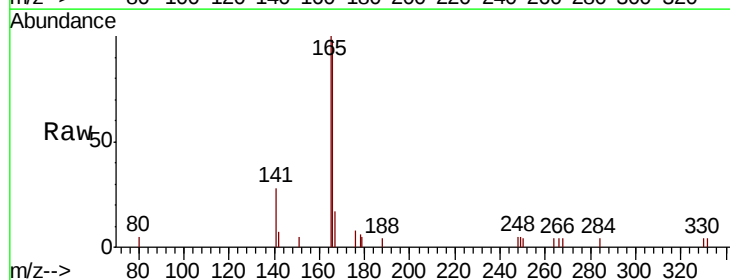
Tgt Ion:166 Resp: 2003

Ion Ratio Lower Upper

166 100

165 97.1 79.3 118.9

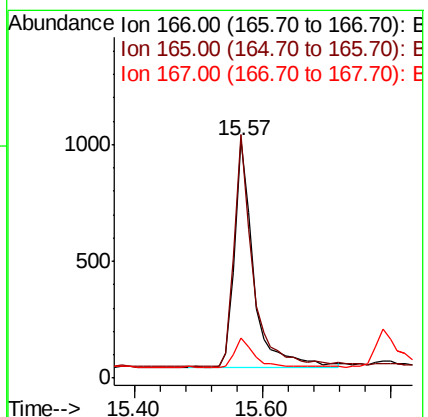
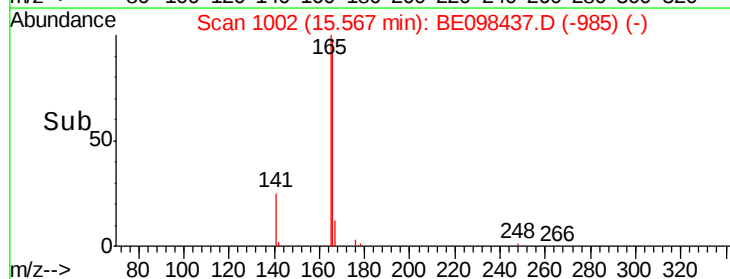
167 13.5 11.3 16.9



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: 17.27 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

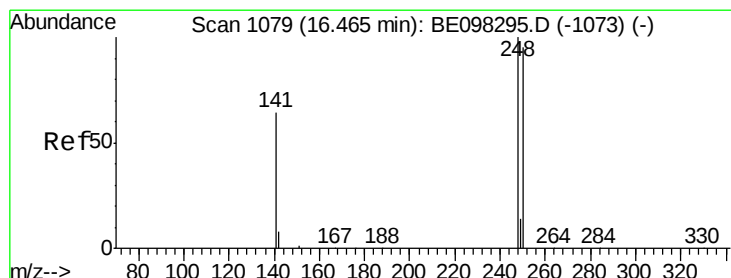
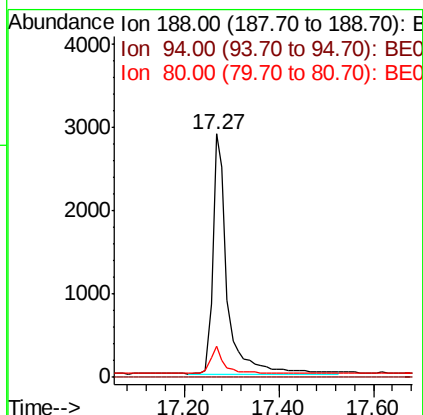
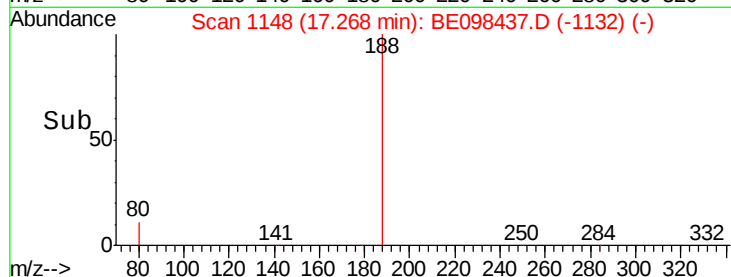
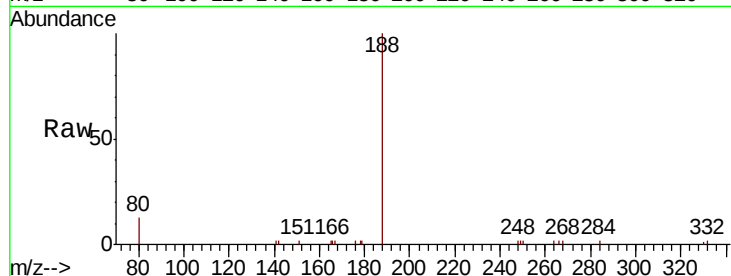
Tgt Ion:188 Resp: 6228

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.7 7.2 10.8#



#20

4-Bromophenyl-phenylether

Concen: 0.182 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

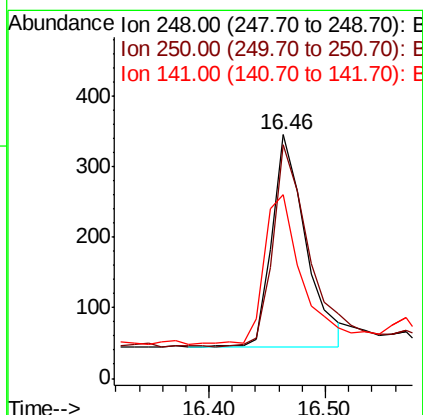
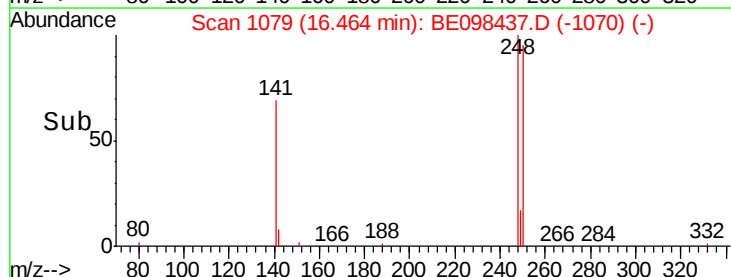
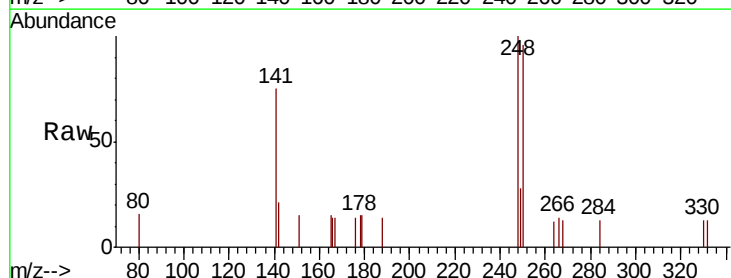
Tgt Ion:248 Resp: 610

Ion Ratio Lower Upper

248 100

250 95.7 71.0 106.6

141 75.4 62.1 93.1





#21

Hexachlorobenzene

Concen: 0.211 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

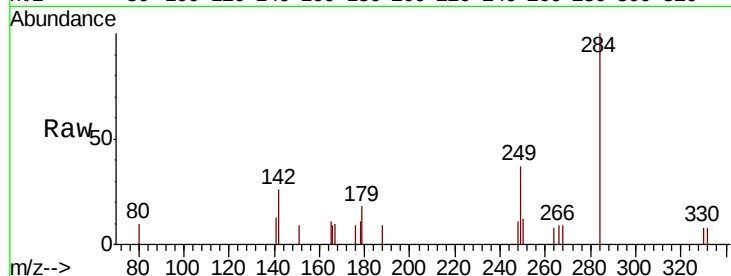
Tgt Ion:284 Resp: 761

Ion Ratio Lower Upper

284 100

142 36.8 26.3 39.5

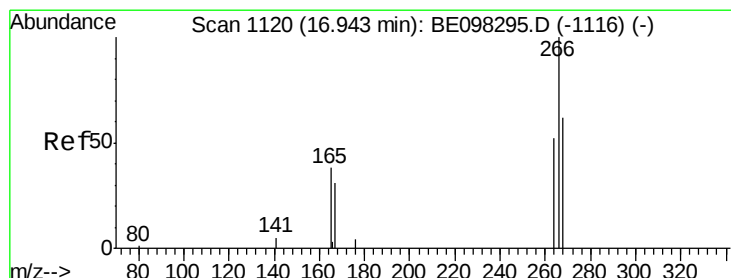
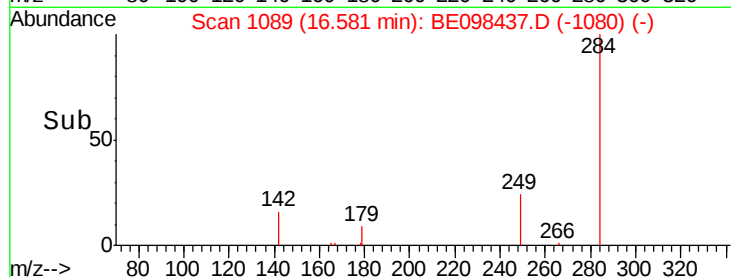
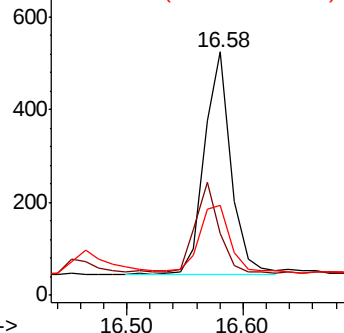
249 32.9 26.0 39.0



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: 0.177 ng

RT: 16.95 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

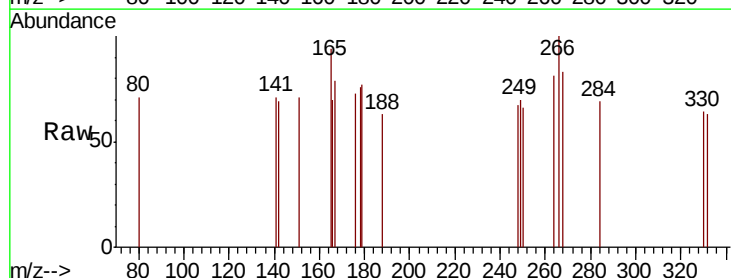
Tgt Ion:266 Resp: 91

Ion Ratio Lower Upper

266 100

264 81.4 59.0 88.4

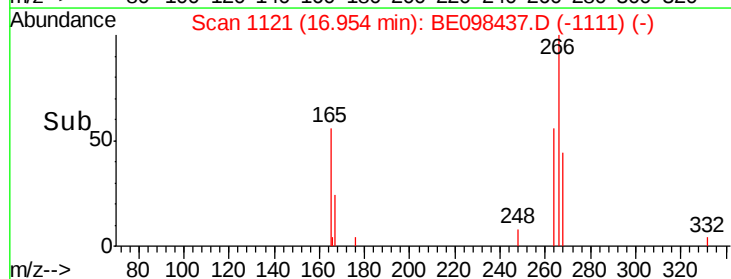
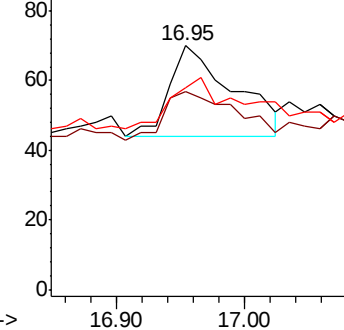
268 82.9 55.1 82.7#



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: 0.224 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

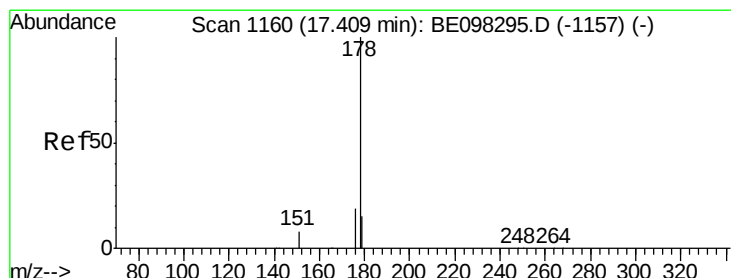
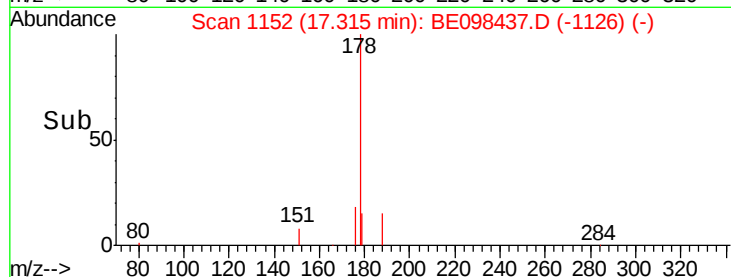
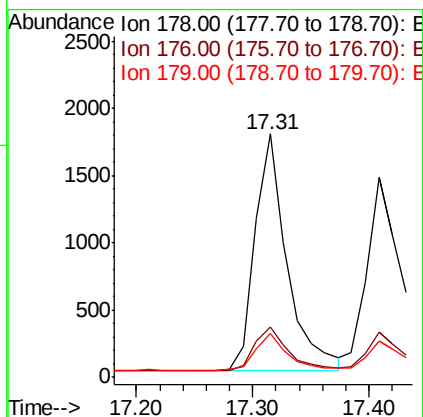
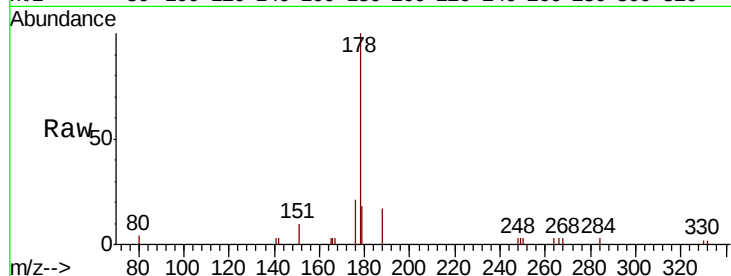
Instrument :

BNA_E

ClientSampleId :

PB115586BSD

Tgt Ion:	178	Resp:	3387
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.7	12.3	18.5



#24

Anthracene

Concen: 0.201 ng

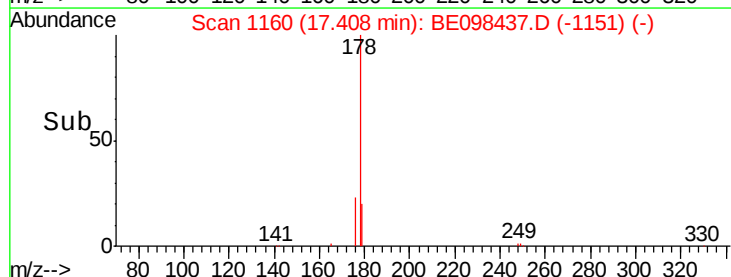
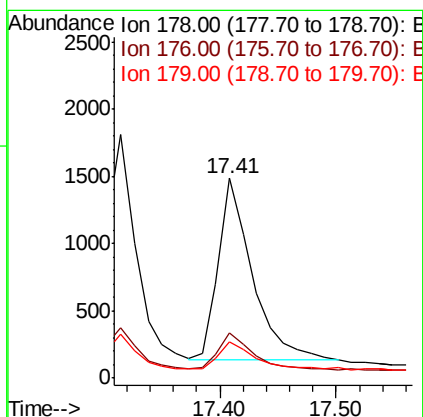
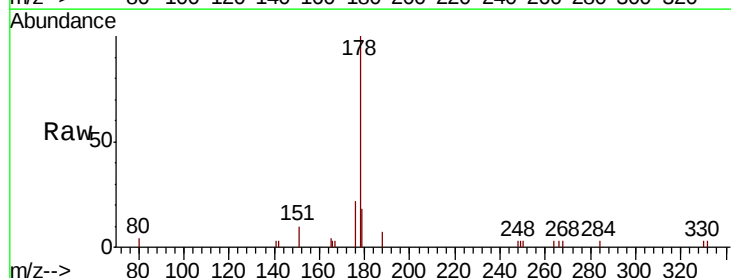
RT: 17.41 min Scan# 1160

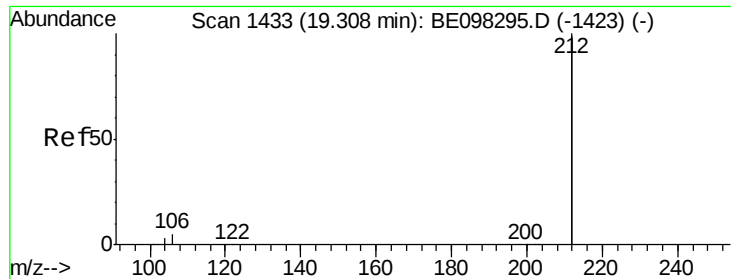
Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Tgt Ion:	178	Resp:	2715
Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.0	22.4
179	15.4	12.3	18.5





#25

Fluoranthene-d10

Concen: 0.249 ng

RT: 19.30 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

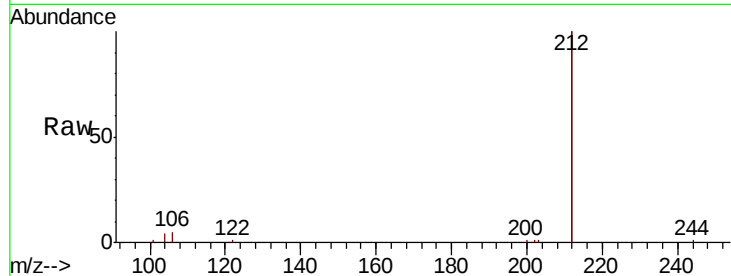
Tgt Ion:212 Resp: 19905

Ion Ratio Lower Upper

212 100

106 2.5 2.2 3.2

104 1.4 1.3 1.9

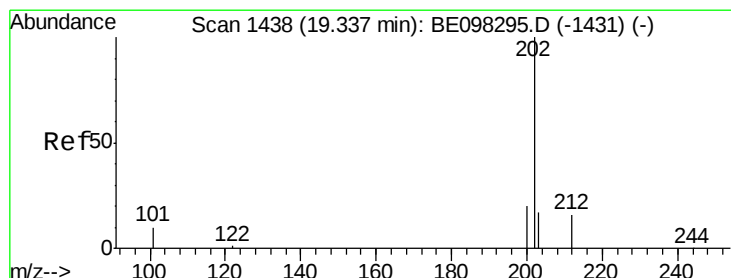
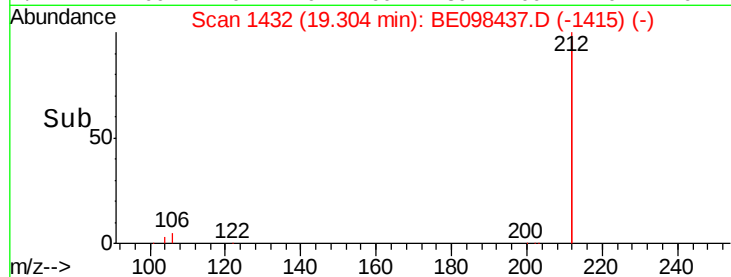
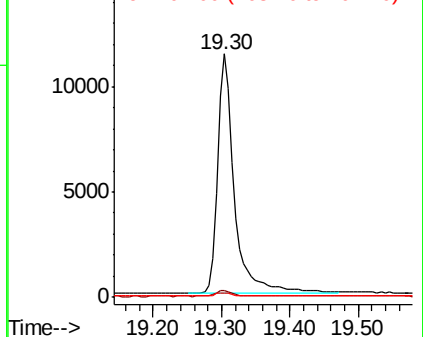


Abundance

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: 0.247 ng

RT: 19.33 min Scan# 1437

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

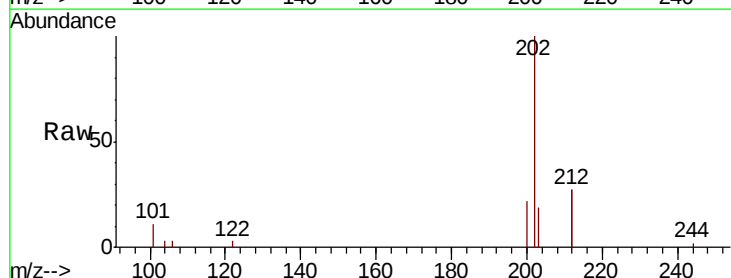
Tgt Ion:202 Resp: 4937

Ion Ratio Lower Upper

202 100

101 9.3 8.0 12.0

203 17.3 13.8 20.6

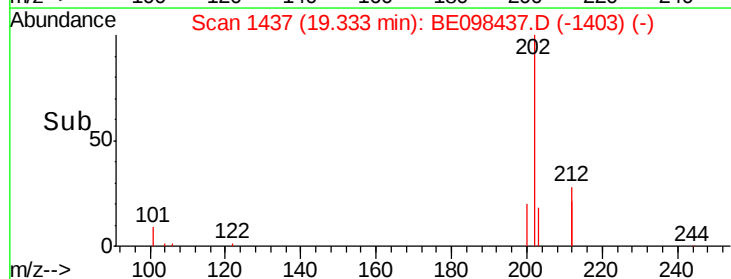
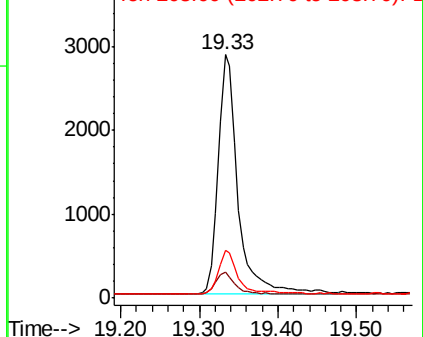


Abundance

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: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

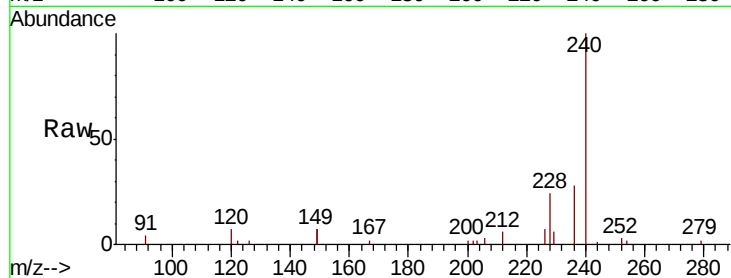
Tgt Ion:240 Resp: 8235

Ion Ratio Lower Upper

240 100

120 7.3 9.5 14.3#

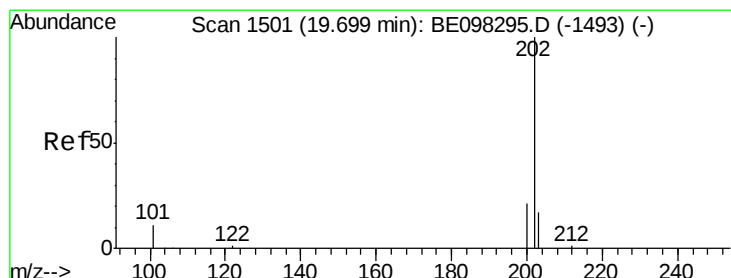
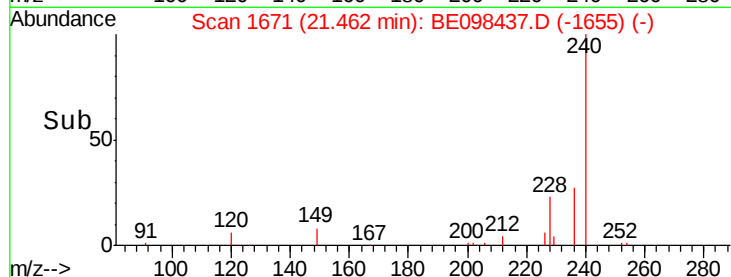
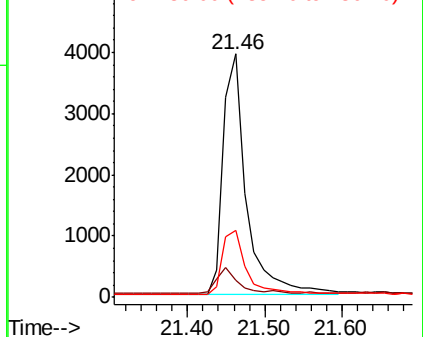
236 27.7 22.7 34.1



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: 0.194 ng

RT: 19.69 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

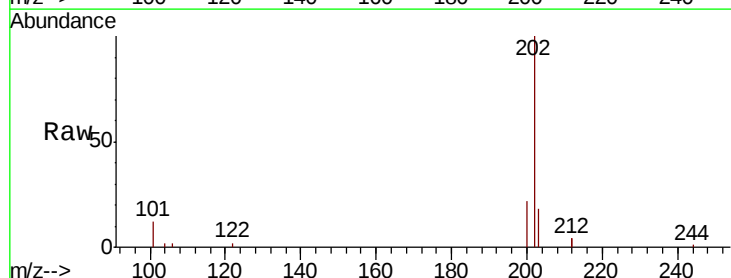
Tgt Ion:202 Resp: 5005

Ion Ratio Lower Upper

202 100

200 21.5 16.7 25.1

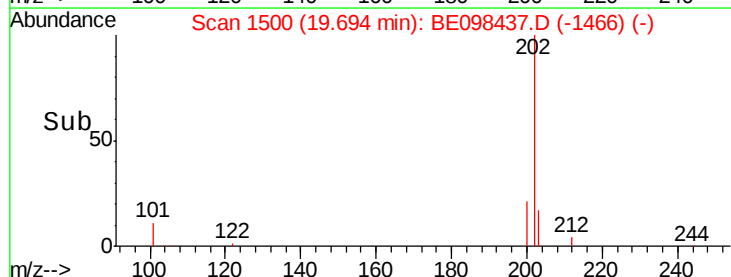
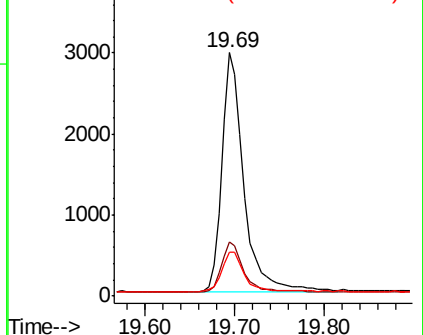
203 17.6 14.1 21.1

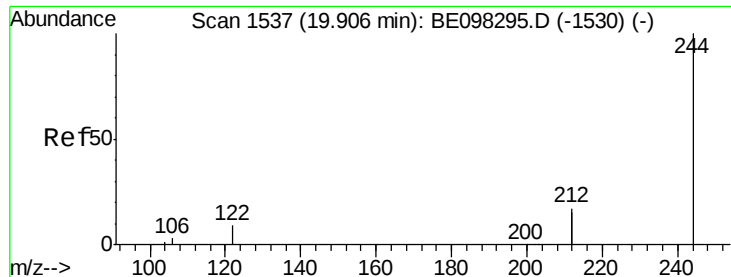


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.181 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

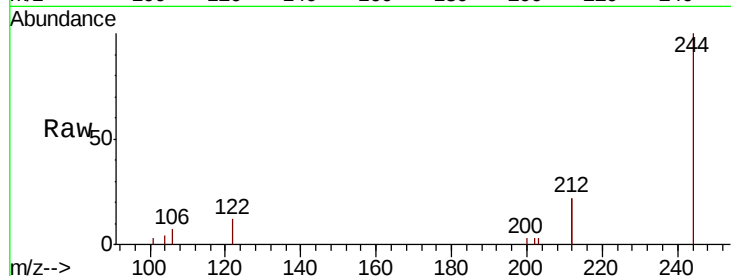
Tgt Ion:244 Resp: 3625

Ion Ratio Lower Upper

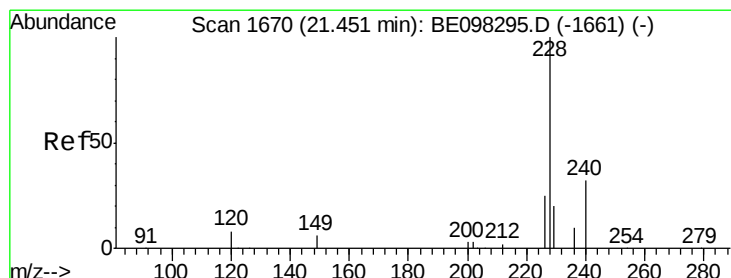
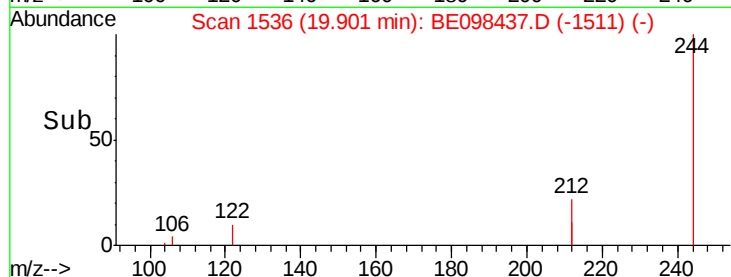
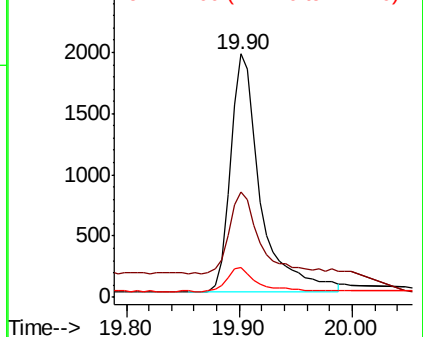
244 100

212 43.2 27.4 41.0#

122 12.5 8.3 12.5



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: 0.231 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

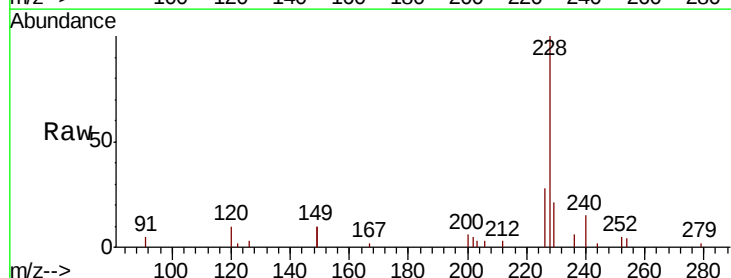
Tgt Ion:228 Resp: 5406

Ion Ratio Lower Upper

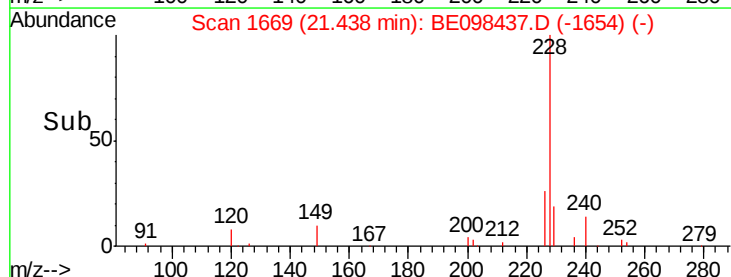
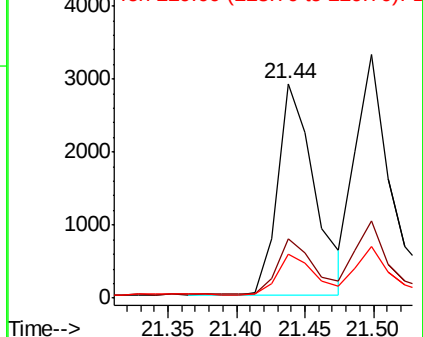
228 100

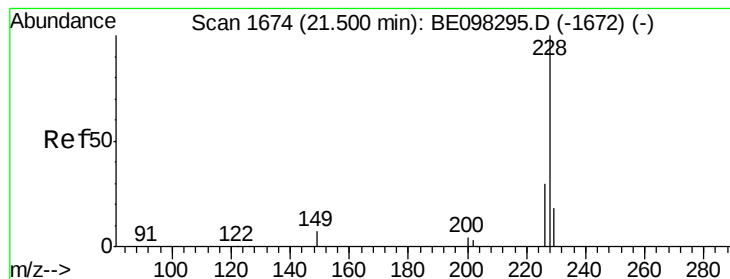
226 27.7 21.8 32.8

229 20.6 16.3 24.5



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: 0.228 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

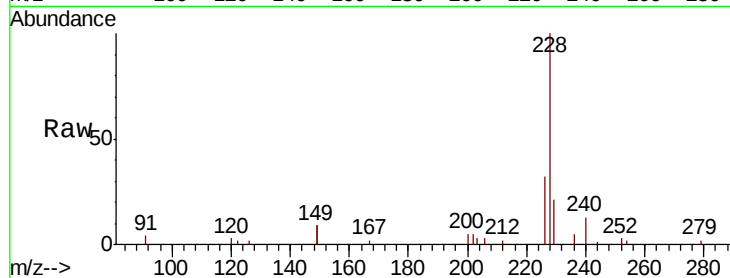
Tgt Ion:228 Resp: 5608

Ion Ratio Lower Upper

228 100

226 31.8 23.4 35.0

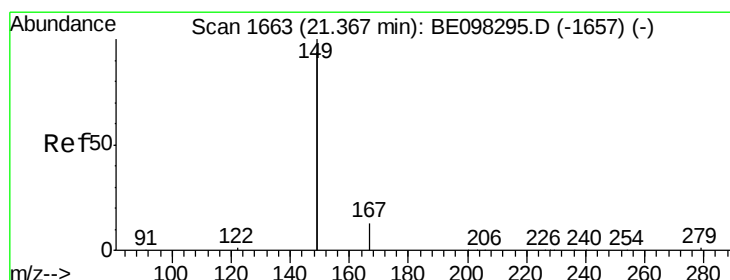
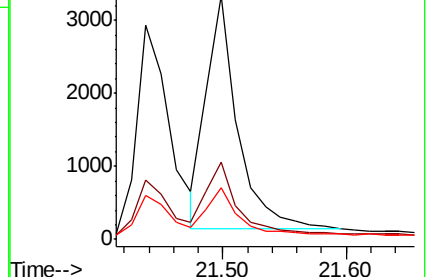
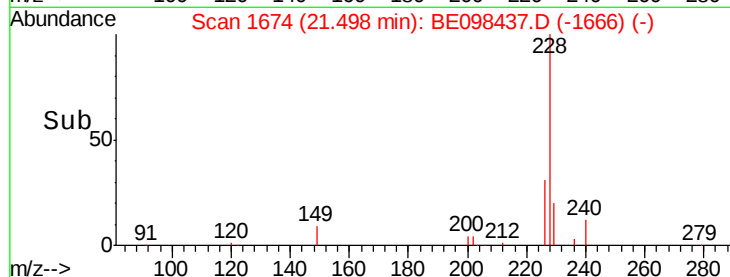
229 21.3 16.2 24.4



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: 0.191 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

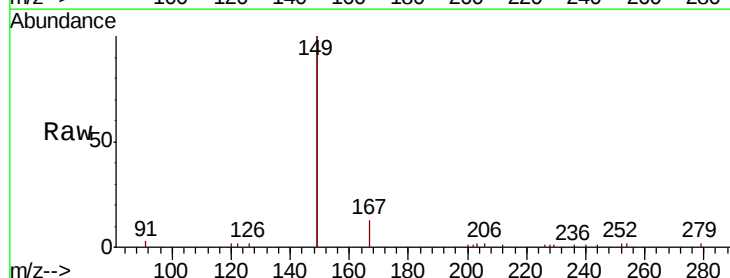
Tgt Ion:149 Resp: 9098

Ion Ratio Lower Upper

149 100

167 6.8 5.7 8.5

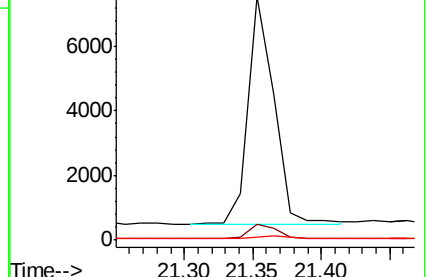
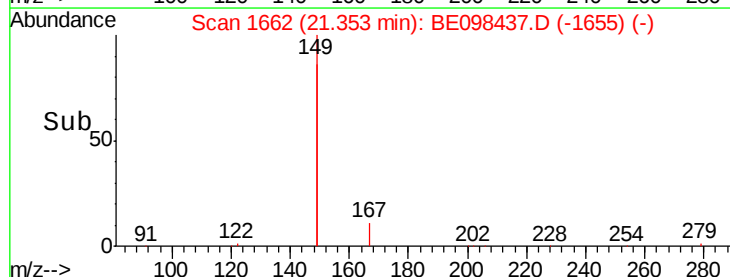
279 1.2 1.0 1.4



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

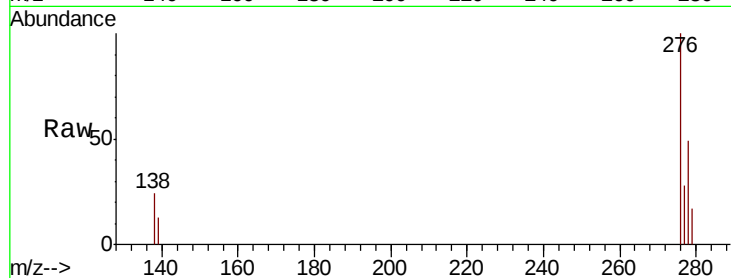




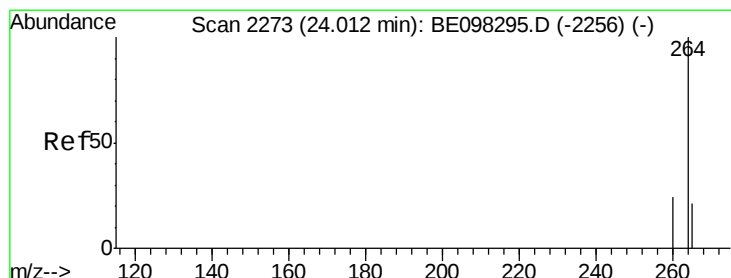
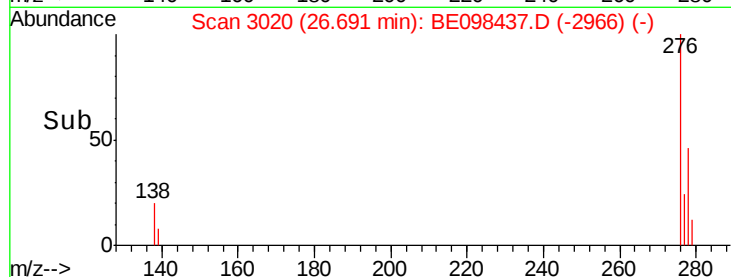
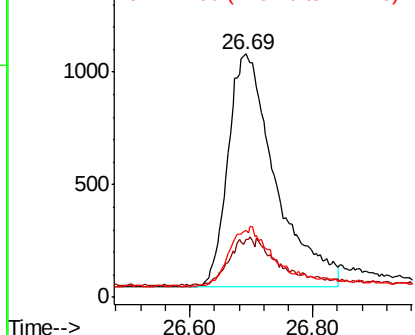
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.227 ng
 RT: 26.69 min Scan# 3020
 Delta R.T. -0.01 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

Instrument :
 BNA_E
 ClientSampleId :
 PB115586BSD

Tgt Ion: 276 Resp: 5549
 Ion Ratio Lower Upper
 276 100
 138 6.7 16.3 24.5#
 277 22.1 20.2 30.4

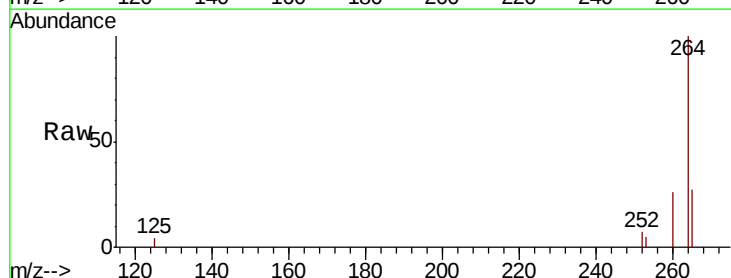


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

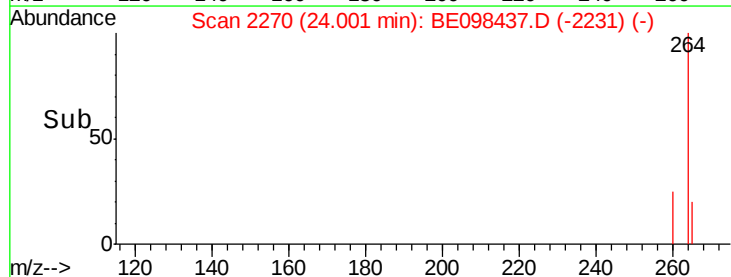
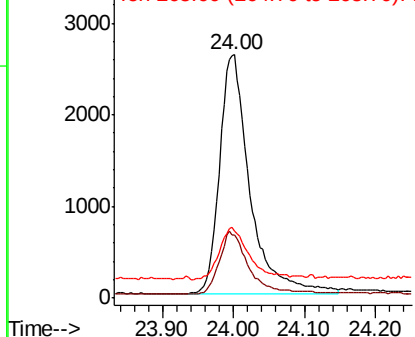


#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.00 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BE098437.D
 Acq: 14 Dec 2018 15:56

Tgt Ion: 264 Resp: 7708
 Ion Ratio Lower Upper
 264 100
 260 25.9 20.2 30.2
 265 27.5 25.2 37.8



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: 0.234 ng

RT: 23.22 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

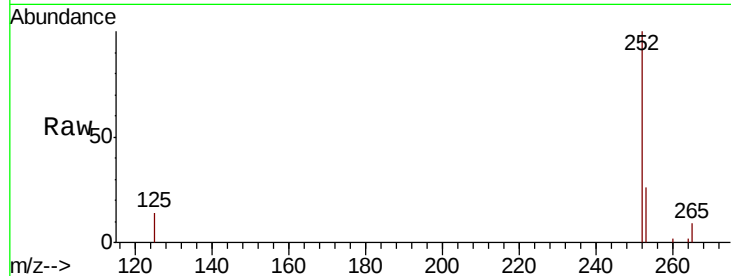
Tgt Ion:252 Resp: 4926

Ion Ratio Lower Upper

252 100

253 25.6 20.0 30.0

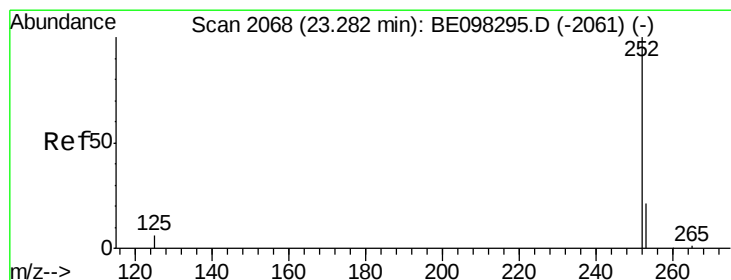
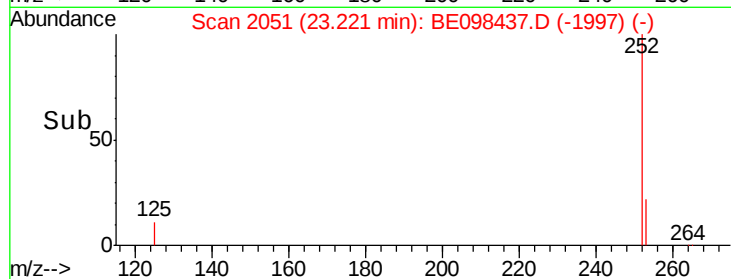
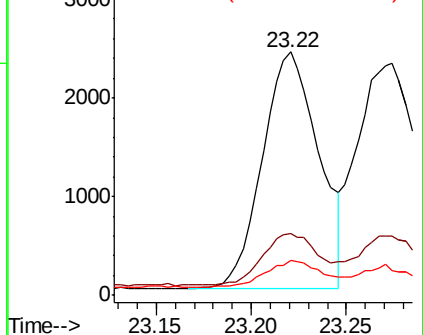
125 14.1 9.6 14.4



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: 0.254 ng

RT: 23.27 min Scan# 2066

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

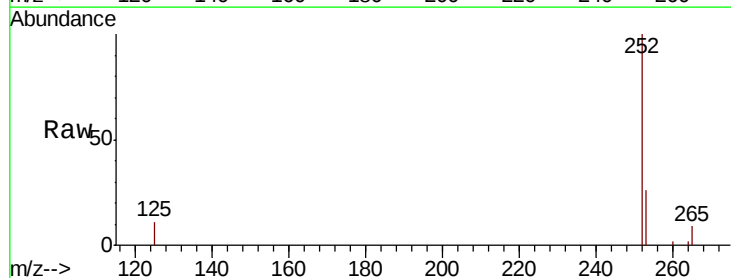
Tgt Ion:252 Resp: 6248

Ion Ratio Lower Upper

252 100

253 25.7 19.0 28.6

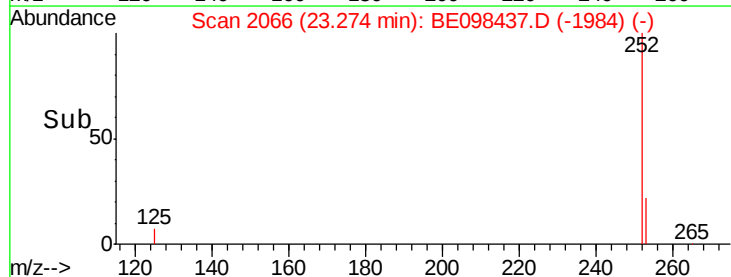
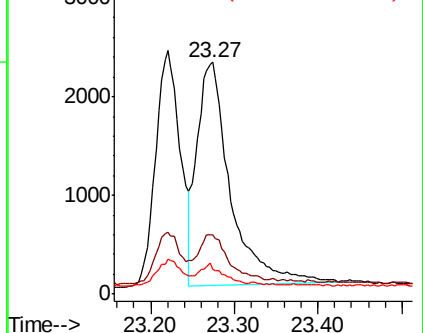
125 10.9 9.1 13.7



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: 0.246 ng

RT: 23.89 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD

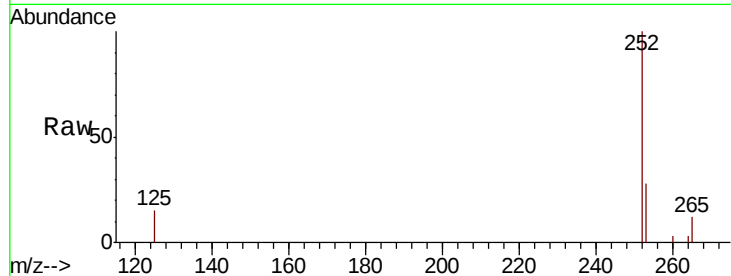
Tgt Ion: 252 Resp: 5346

Ion Ratio Lower Upper

252 100

253 28.4 20.6 30.8

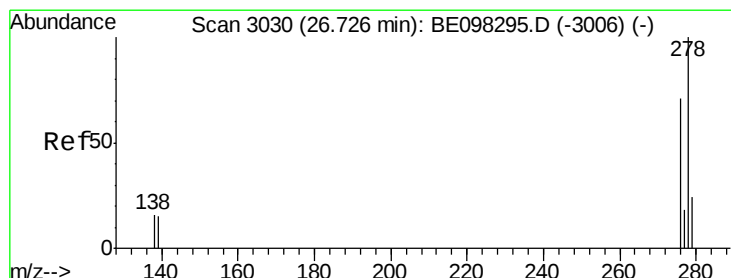
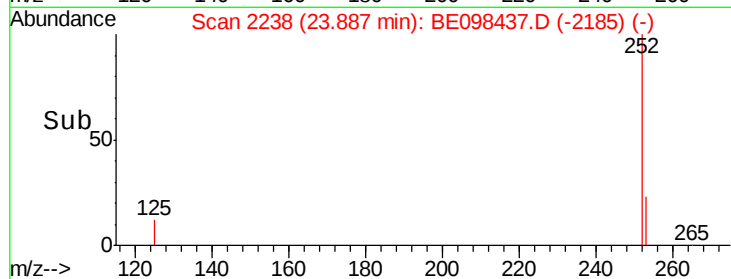
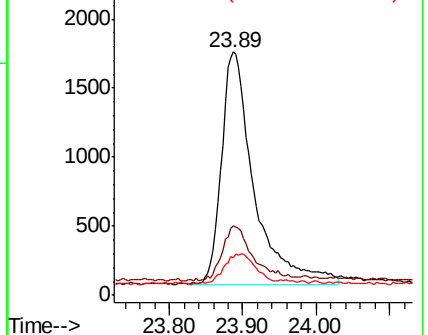
125 15.3 10.5 15.7



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: 0.202 ng

RT: 26.72 min Scan# 3028

Delta R.T. -0.01 min

Lab File: BE098437.D

Acq: 14 Dec 2018 15:56

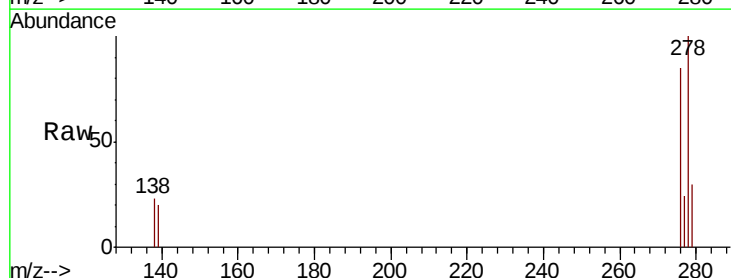
Tgt Ion: 278 Resp: 4135

Ion Ratio Lower Upper

278 100

139 19.8 14.5 21.7

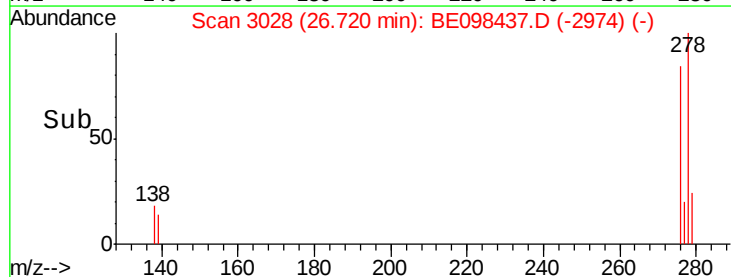
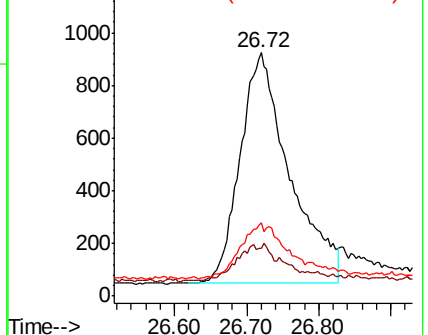
279 29.9 21.8 32.8

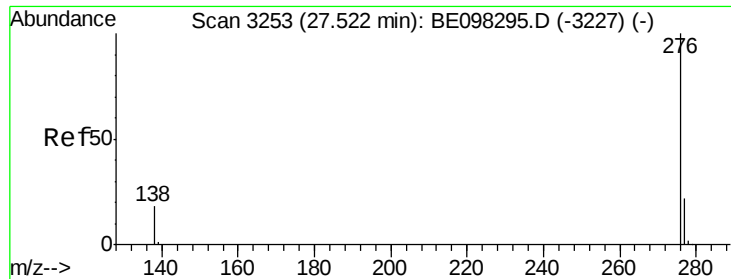


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.238 ng

RT: 27.51 min Scan# 3249

Delta R.T. -0.01 min

Lab File: BE098437.D

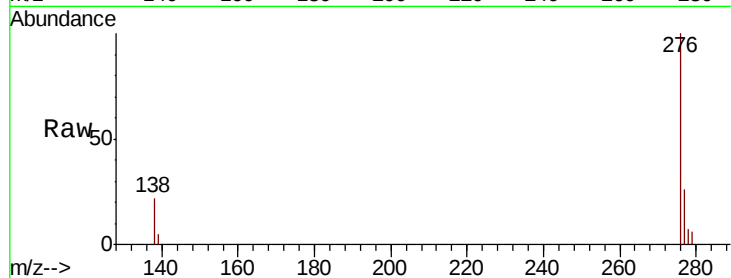
Acq: 14 Dec 2018 15:56

Instrument :

BNA_E

ClientSampleId :

PB115586BSD



Tgt Ion: 276 Resp: 4911

Ion Ratio Lower Upper

276 100

277 26.2 20.8 31.2

138 22.0 15.8 23.6

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

