

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE121418\
 Data File : BE098435.D
 Acq On : 14 Dec 2018 14:41
 Operator : SJ/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 25 00:38:51 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	1403	0.40	ng	0.00
7) Naphthalene-d8	10.65	136	5901	0.40	ng	-0.01
13) Acenaphthene-d10	14.53	164	3806	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	10480	0.40	ng	-0.01
27) Chrysene-d12	21.45	240	12877	0.40	ng	-0.01
34) Perylene-d12	24.00	264	12253	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.45	112	1324	0.40	ng	0.00
5) Phenol-d6	7.04	99	1980	0.43	ng	-0.01
8) Nitrobenzene-d5	9.02	82	2112	0.39	ng	0.00
11) 2-Methylnaphthalene-d10	12.25	152	3671	0.38	ng	-0.02
14) 2,4,6-Tribromophenol	16.02	330	626	0.45	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	5752	0.36	ng	0.00
25) Fluoranthene-d10	19.30	212	53745	0.40	ng	0.00
29) Terphenyl-d14	19.90	244	9853	0.31	ng	0.00

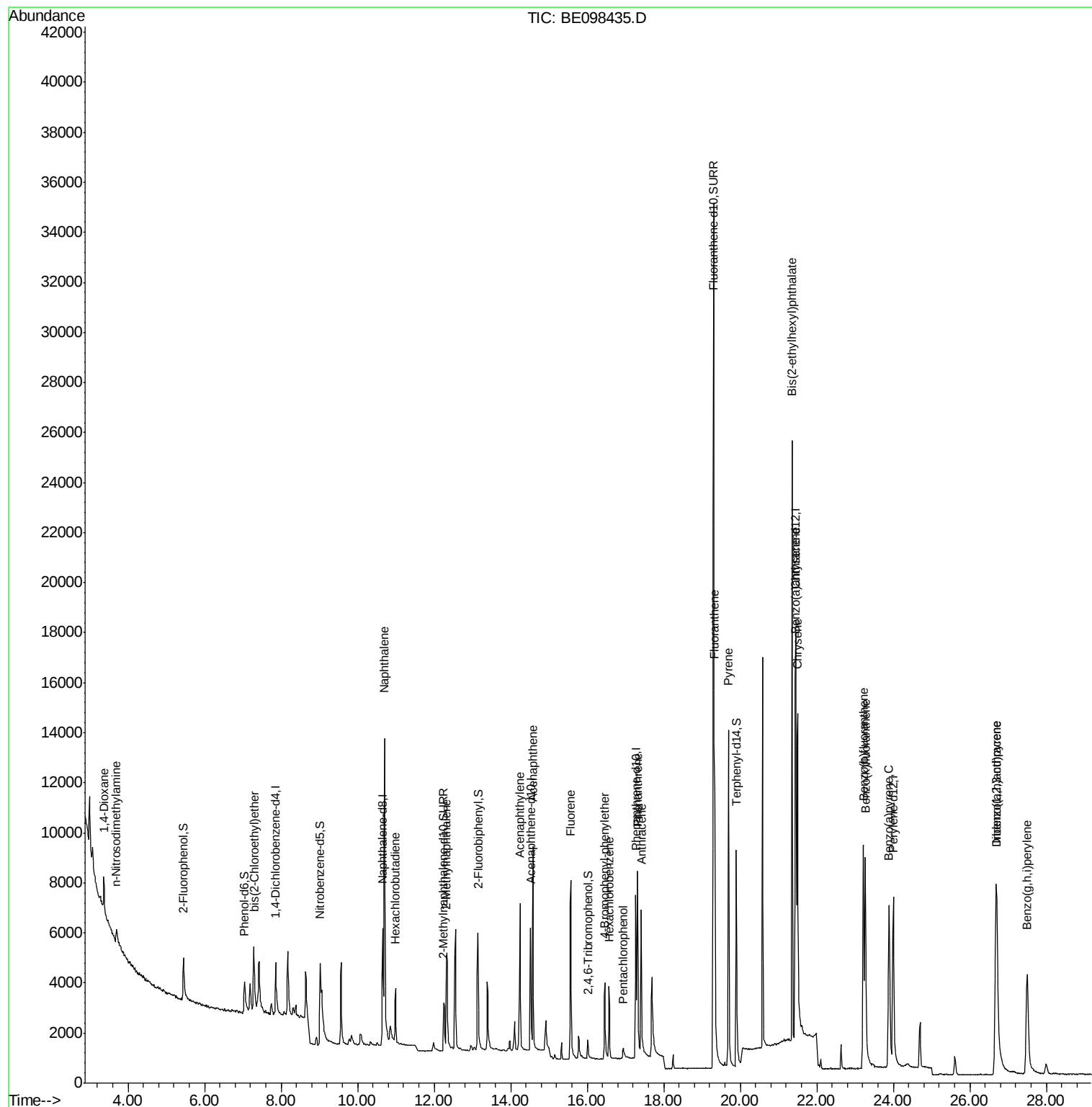
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.36	88	795	0.328	ng	98
3) n-Nitrosodimethylamine	3.70	42	679	0.311	ng	# 100
6) bis(2-Chloroethyl)ether	7.29	93	1548	0.350	ng	88
9) Naphthalene	10.70	128	23022	0.388	ng	99
10) Hexachlorobutadiene	10.99	225	1578	0.417	ng	99
12) 2-Methylnaphthalene	12.32	142	3587	0.372	ng	98
16) Acenaphthylene	14.24	152	6886	0.386	ng	99
17) Acenaphthene	14.59	154	4129	0.386	ng	98
18) Fluorene	15.57	166	5484	0.383	ng	98
20) 4-Bromophenyl-phenylether	16.46	248	2058	0.365	ng	# 83
21) Hexachlorobenzene	16.57	284	2270	0.374	ng	94
22) Pentachlorophenol	16.94	266	433	0.438	ng	94
23) Phenanthrene	17.32	178	9510	0.373	ng	99
24) Anthracene	17.41	178	7874	0.347	ng	99
26) Fluoranthene	19.33	202	13515	0.401	ng	99
28) Pyrene	19.69	202	13842	0.343	ng	99
30) Benzo(a)anthracene	21.44	228	12812	0.349	ng	99
31) Chrysene	21.50	228	14756	0.384	ng	100
32) Bis(2-ethylhexyl)phthalate	21.35	149	26115	0.351	ng	99
33) Indeno(1,2,3-cd)pyrene	26.68	276	15010	0.393	ng	96
35) Benzo(b)fluoranthene	23.21	252	12503	0.373	ng	# 94
36) Benzo(k)fluoranthene	23.27	252	15851	0.406	ng	97
37) Benzo(a)pyrene	23.88	252	13508	0.391	ng	96
38) Dibenzo(a,h)anthracene	26.71	278	12446	0.382	ng	# 89
39) Benzo(g,h,i)perylene	27.50	276	12528	0.382	ng	97

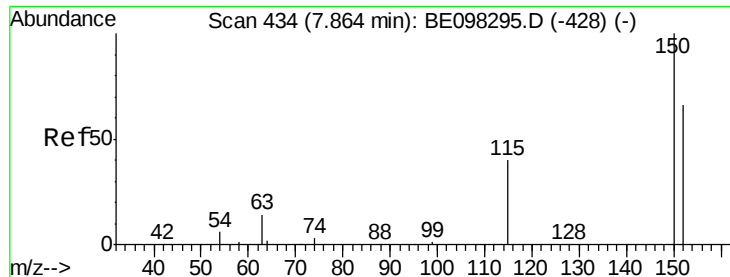
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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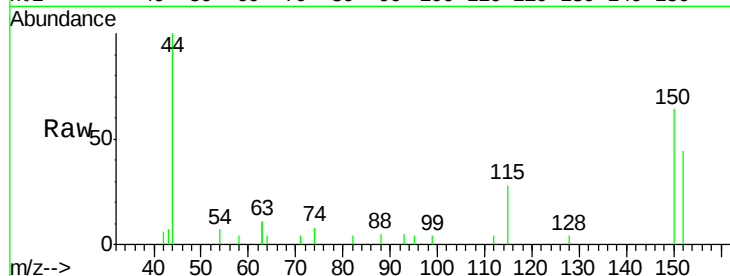


#1

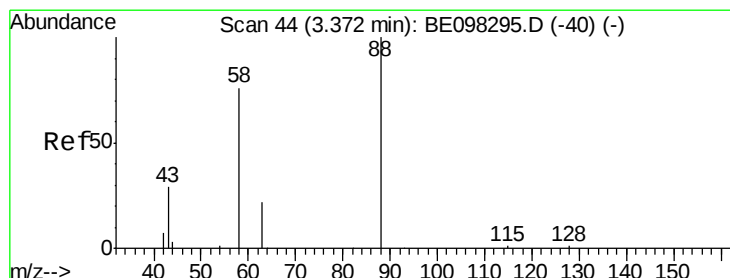
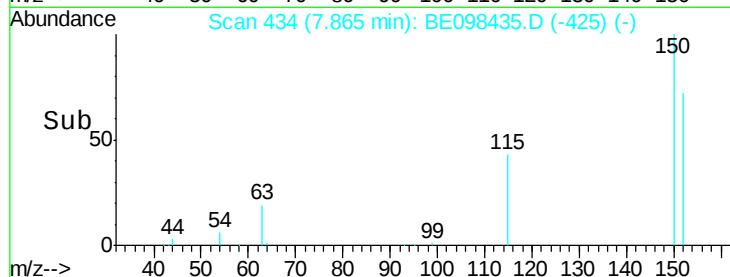
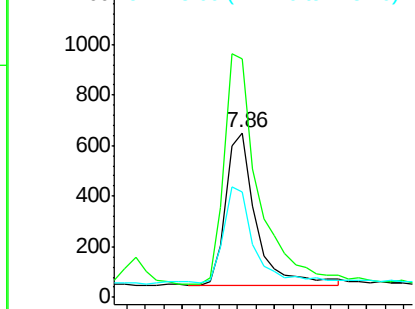
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.86 min Scan# 434
Delta R.T. 0.00 min
Lab File: BE098435.D
Acq: 14 Dec 2018 14:41

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 152 Resp: 1403
Ion Ratio Lower Upper
152 100
150 144.9 124.2 186.4
115 64.4 53.9 80.9



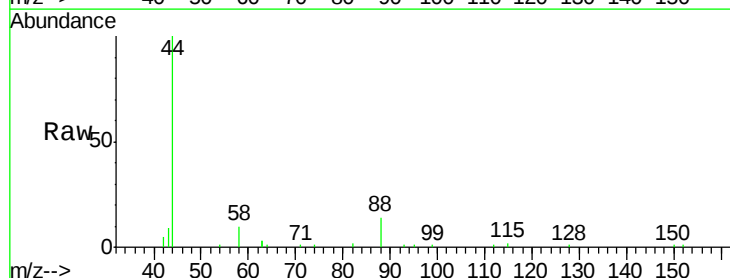
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



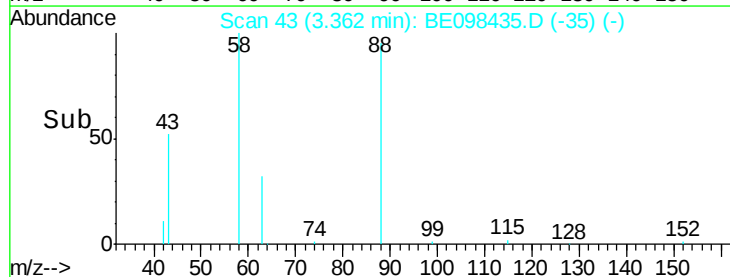
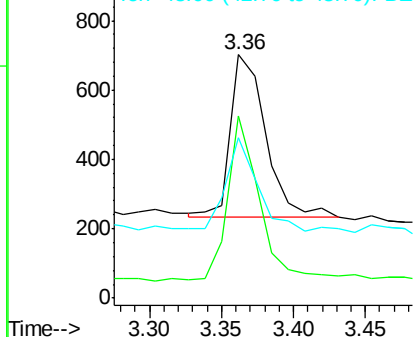
#2

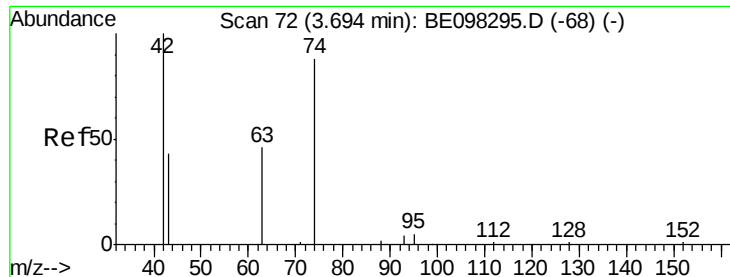
1,4-Dioxane
Concen: 0.328 ng
RT: 3.36 min Scan# 43
Delta R.T. -0.01 min
Lab File: BE098435.D
Acq: 14 Dec 2018 14:41

Tgt Ion: 88 Resp: 795
Ion Ratio Lower Upper
88 100
58 91.4 75.0 112.6
43 48.6 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: 0.311 ng

RT: 3.70 min Scan# 72

Delta R.T. 0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

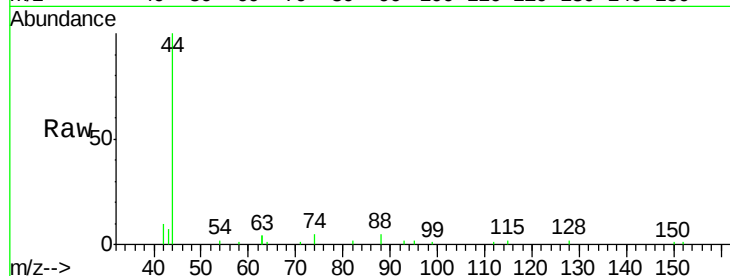
Tgt Ion: 42 Resp: 679

Ion Ratio Lower Upper

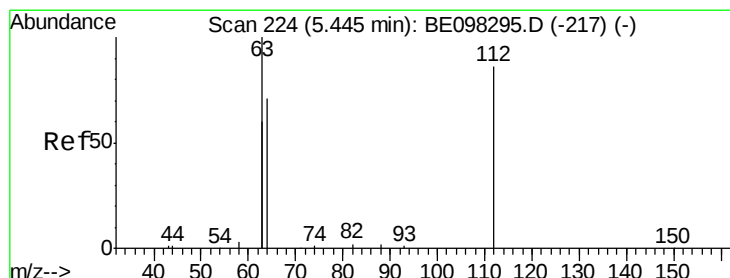
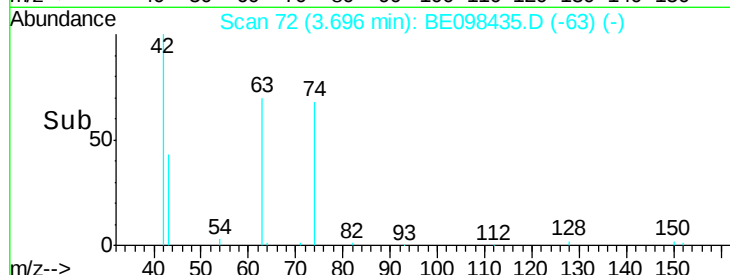
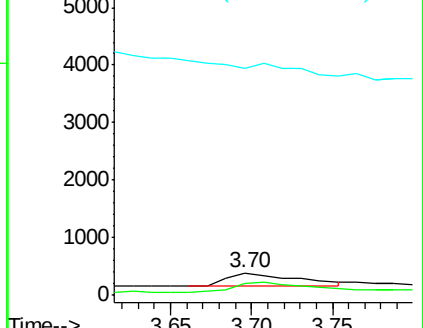
42 100

74 71.0 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: 0.403 ng

RT: 5.45 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

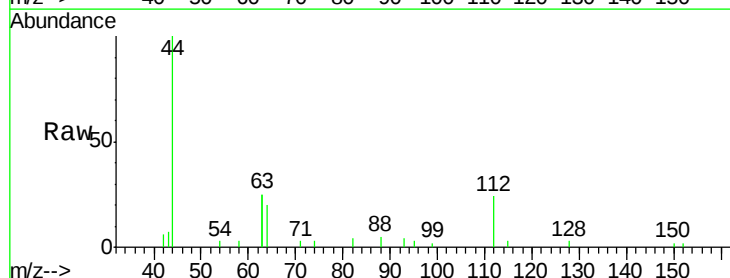
Tgt Ion: 112 Resp: 1324

Ion Ratio Lower Upper

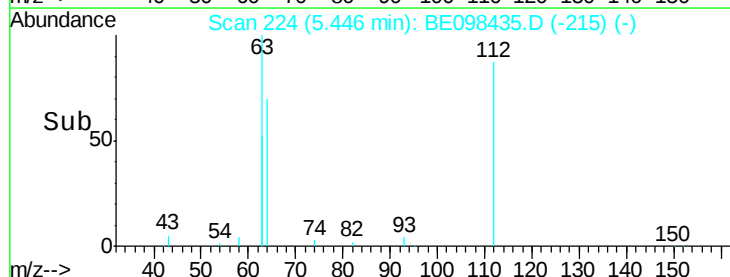
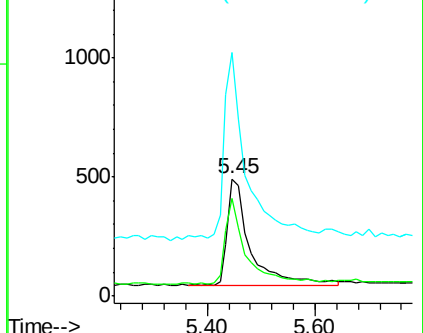
112 100

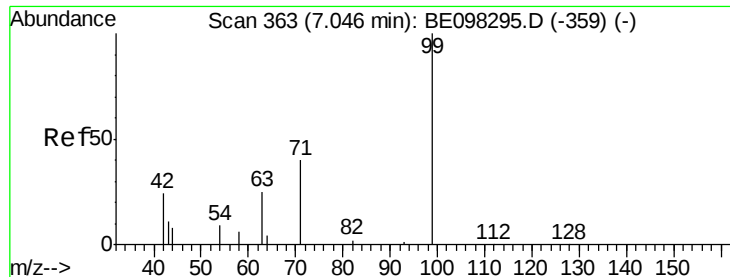
64 72.5 59.8 89.8

63 167.6 133.7 200.5



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: 0.426 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

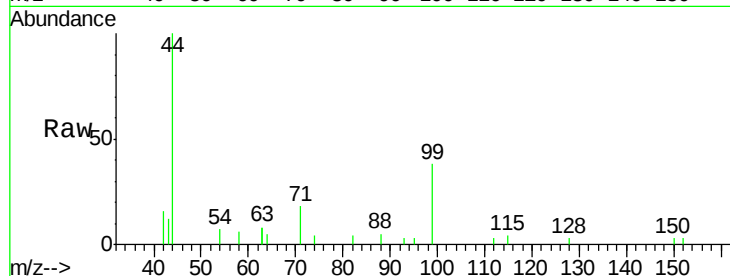
Tgt Ion: 99 Resp: 1980

Ion Ratio Lower Upper

99 100

42 26.9 26.3 39.5

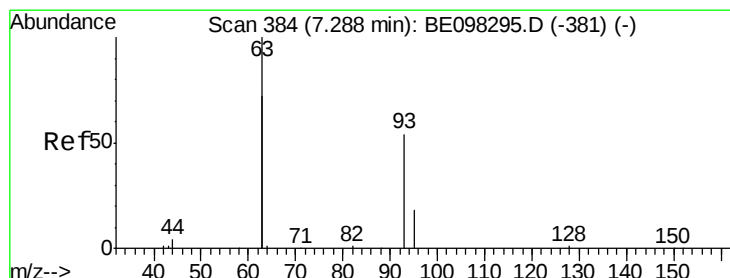
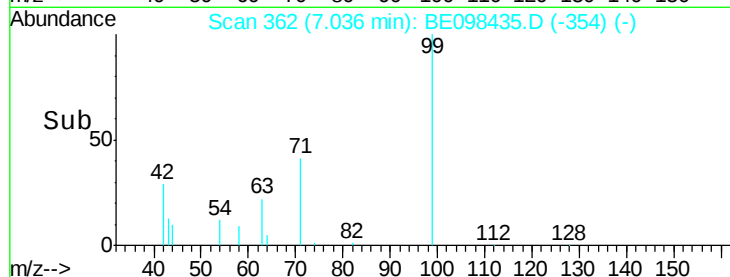
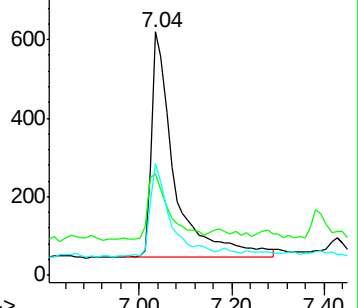
71 35.3 33.6 50.4



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



#6

bis(2-Chloroethyl)ether

Concen: 0.350 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

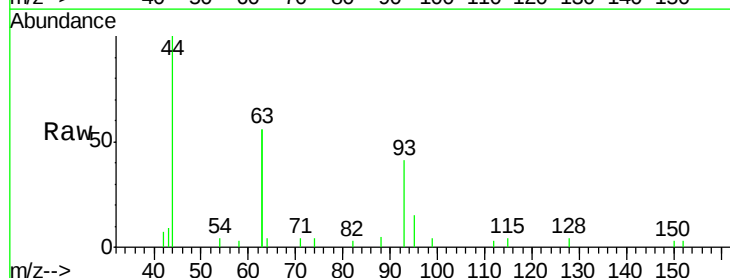
Tgt Ion: 93 Resp: 1548

Ion Ratio Lower Upper

93 100

63 304.1 264.4 396.6

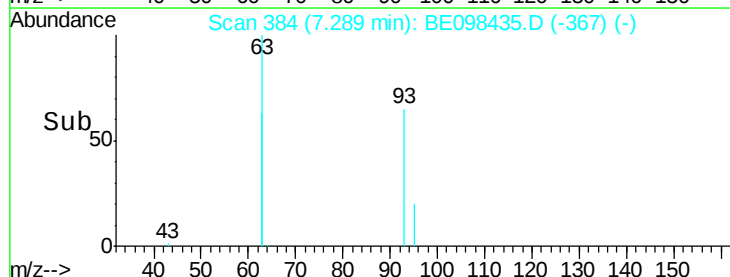
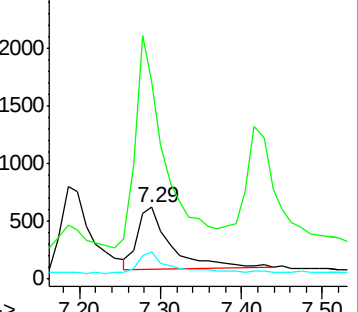
95 31.5 26.6 40.0

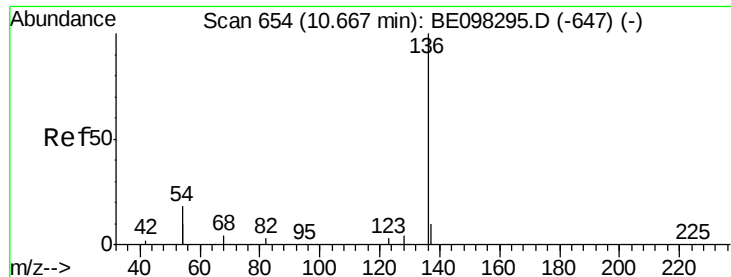


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

Tgt Ion:136 Resp: 5901

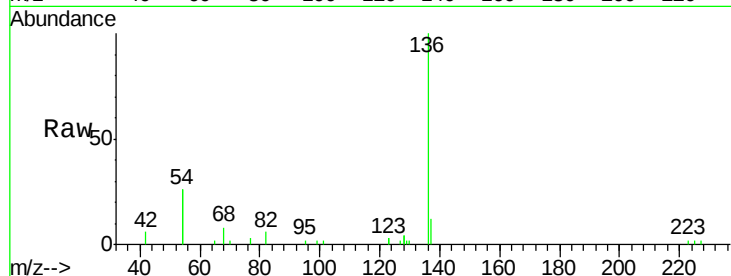
Ion Ratio Lower Upper

136 100

137 11.7 9.2 13.8

54 52.0 28.4 42.6#

68 7.7 5.4 8.0

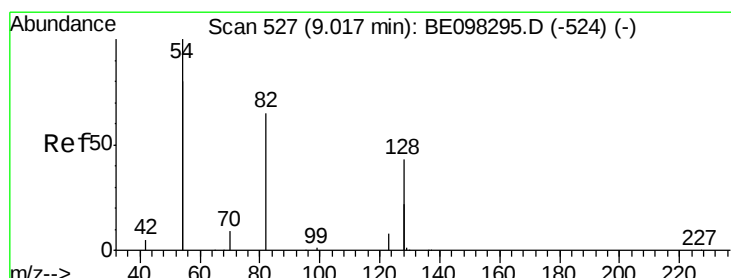
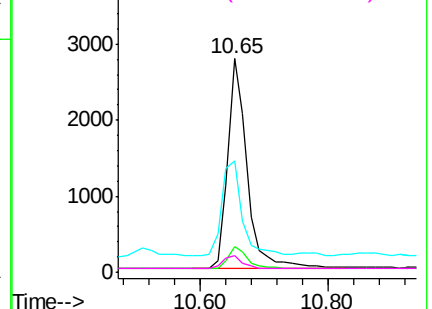
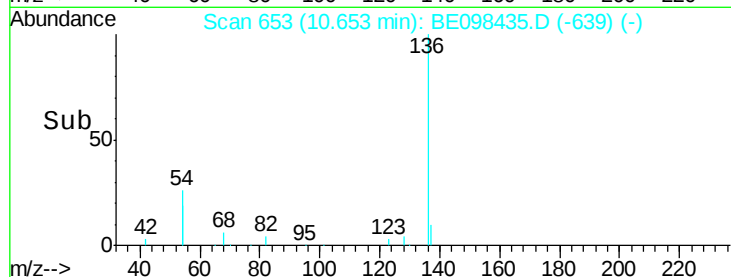


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.393 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

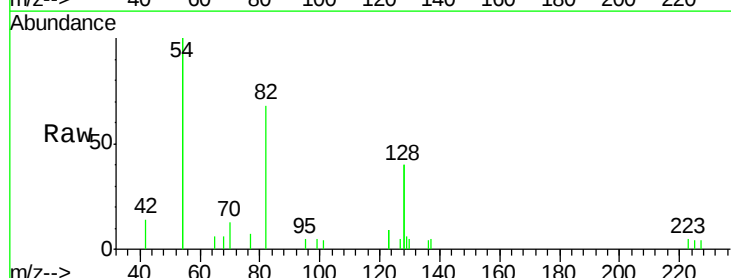
Tgt Ion: 82 Resp: 2112

Ion Ratio Lower Upper

82 100

128 117.4 102.4 153.6

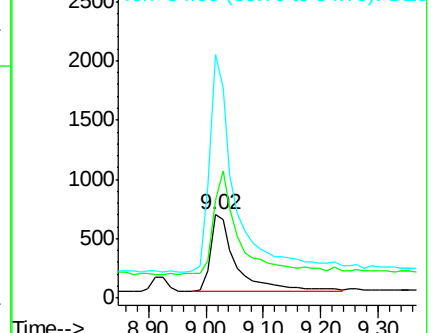
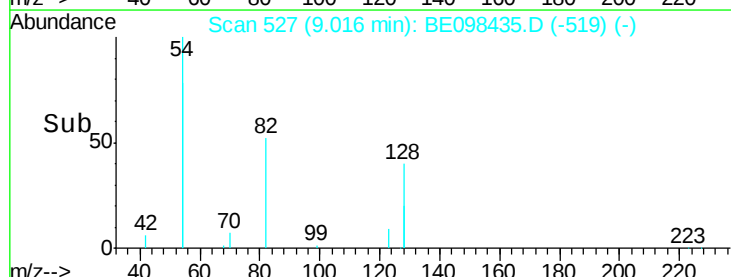
54 292.3 221.8 332.8

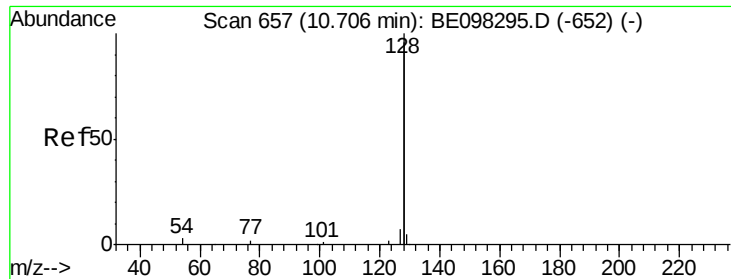


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.388 ng

RT: 10.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

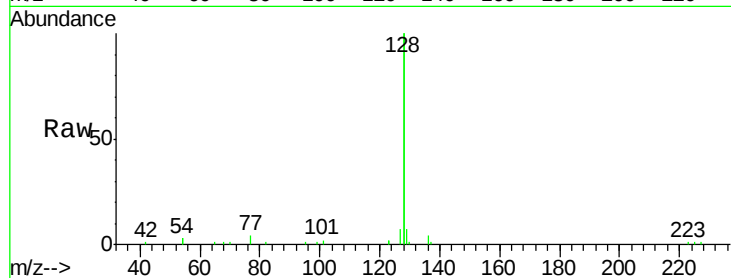
Tgt Ion:128 Resp: 23022

Ion Ratio Lower Upper

128 100

129 3.3 2.5 3.7

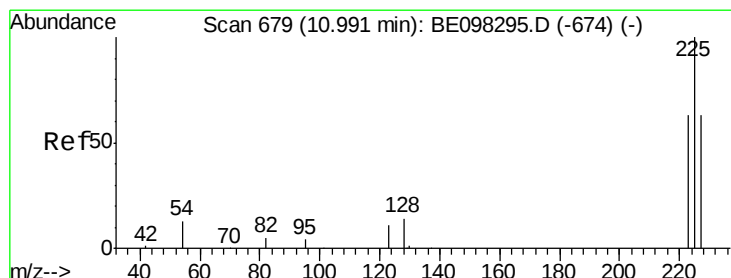
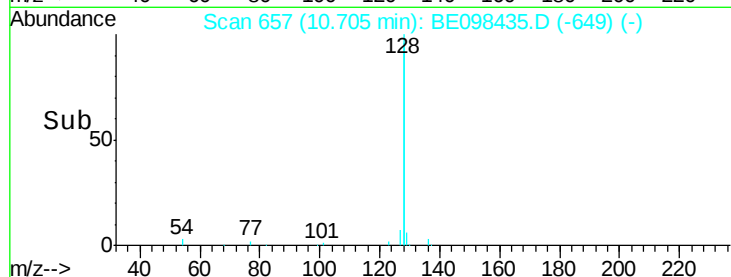
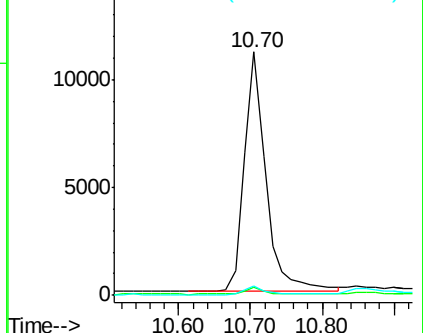
127 3.7 2.7 4.1



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: 0.417 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

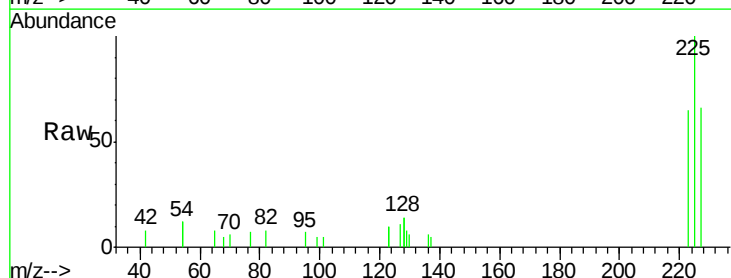
Tgt Ion:225 Resp: 1578

Ion Ratio Lower Upper

225 100

223 62.4 49.4 74.0

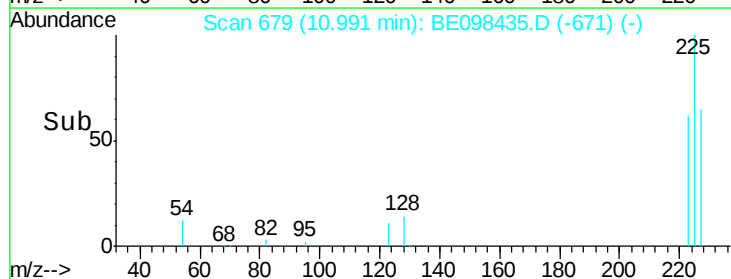
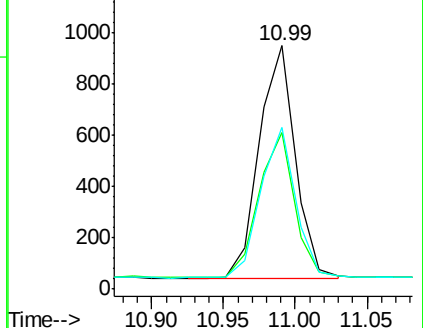
227 63.6 52.0 78.0

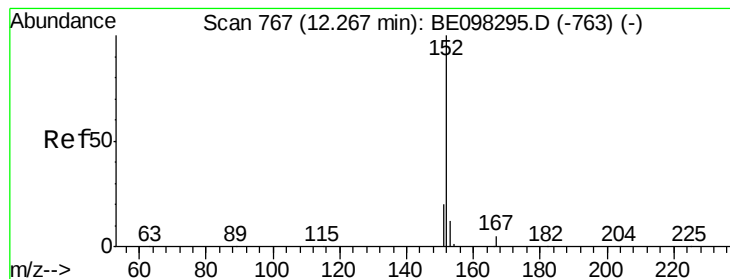


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.383 ng

RT: 12.25 min Scan# 766

Delta R.T. -0.02 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

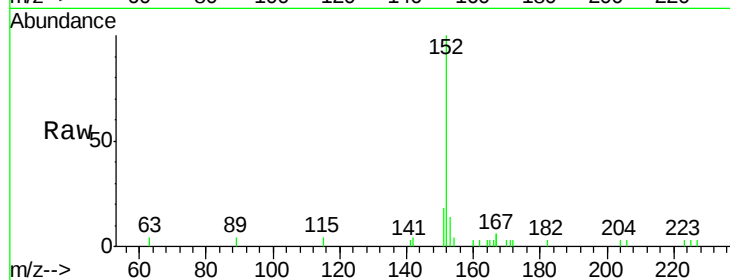
SSTDCCC0.4

Tgt Ion:152 Resp: 3671

Ion Ratio Lower Upper

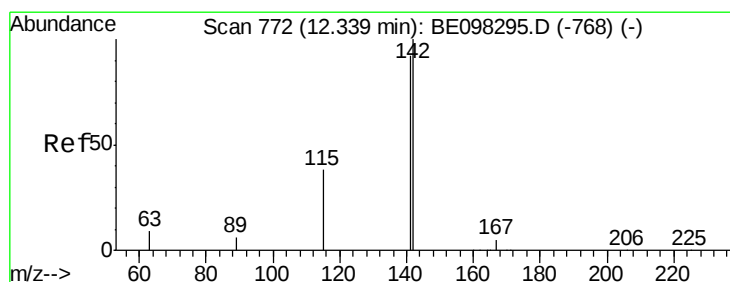
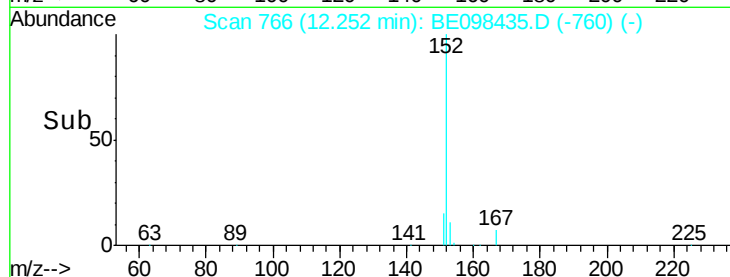
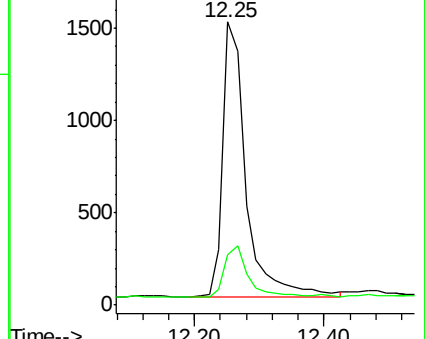
152 100

151 19.6 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.372 ng

RT: 12.32 min Scan# 771

Delta R.T. -0.02 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

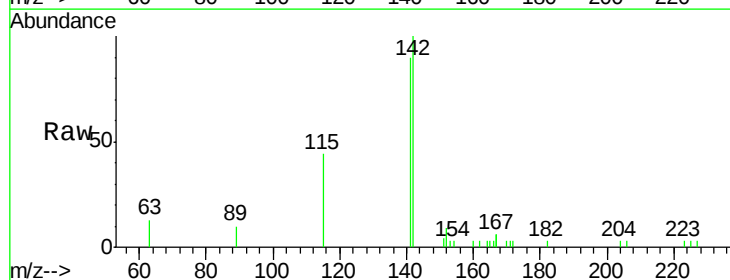
Tgt Ion:142 Resp: 3587

Ion Ratio Lower Upper

142 100

141 89.7 71.0 106.6

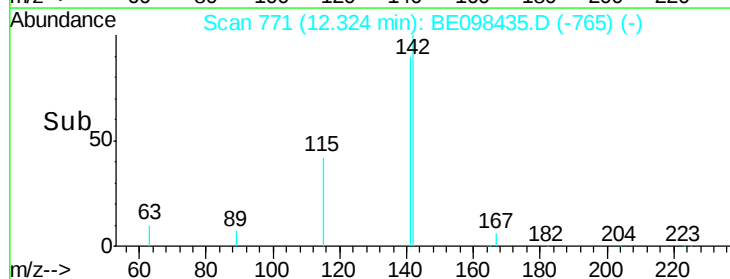
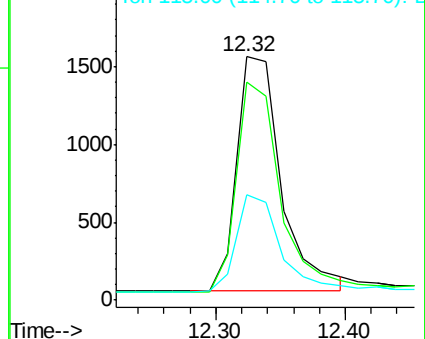
115 43.5 32.2 48.2

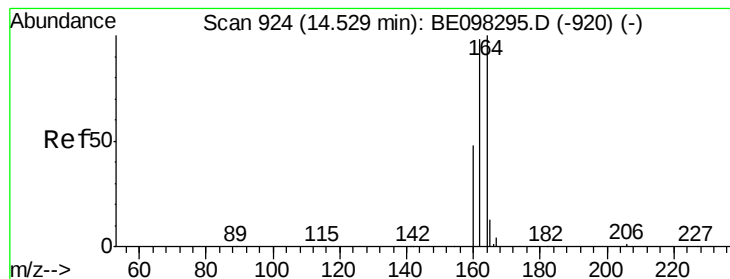


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

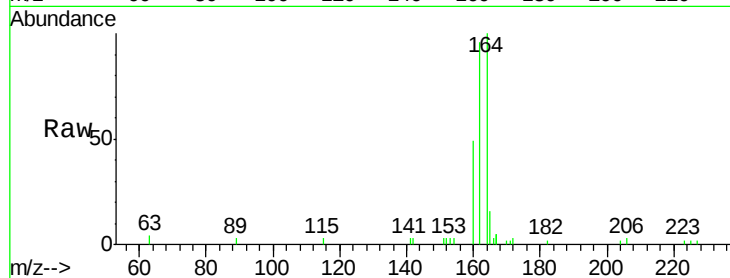
Tgt Ion:164 Resp: 3806

Ion Ratio Lower Upper

164 100

162 96.3 77.6 116.4

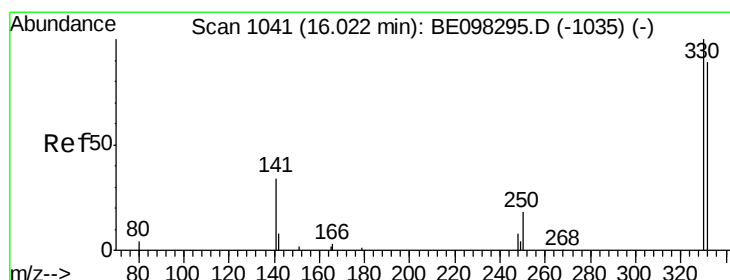
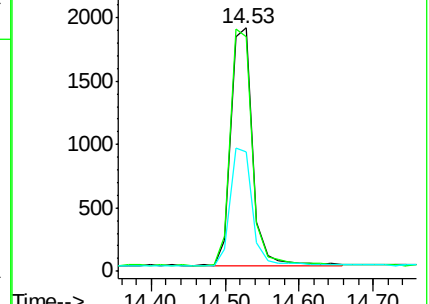
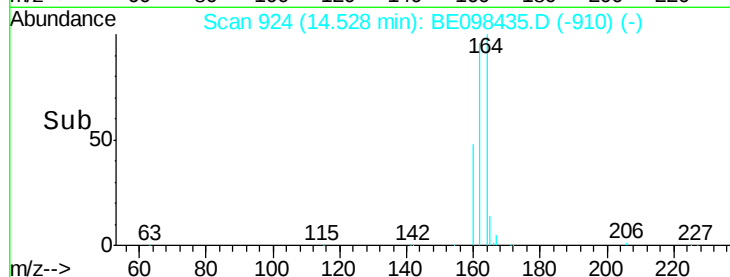
160 49.2 36.0 54.0



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: 0.448 ng

RT: 16.02 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

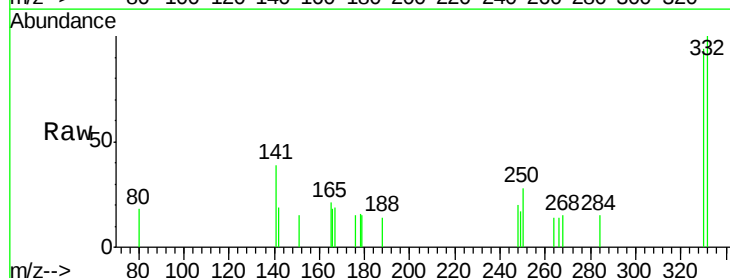
Tgt Ion:330 Resp: 626

Ion Ratio Lower Upper

330 100

332 92.2 76.2 114.4

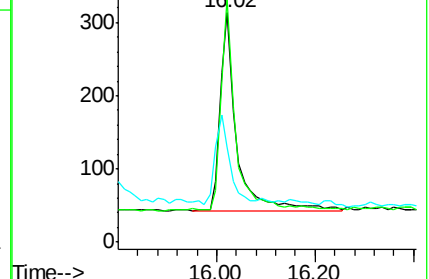
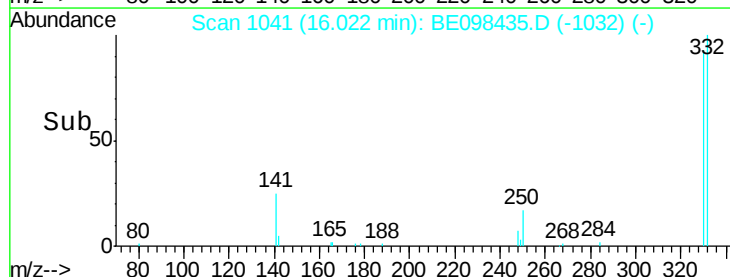
141 38.8 39.0 58.4#

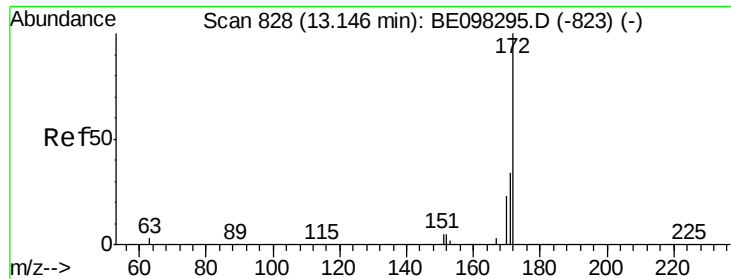


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

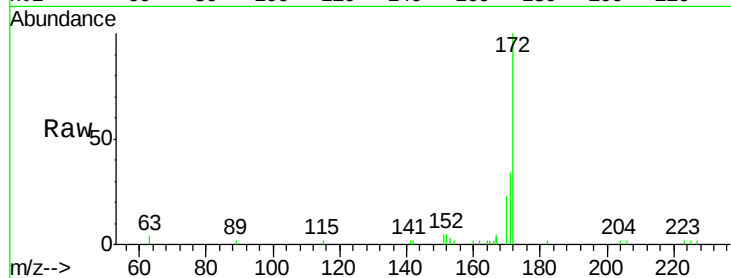




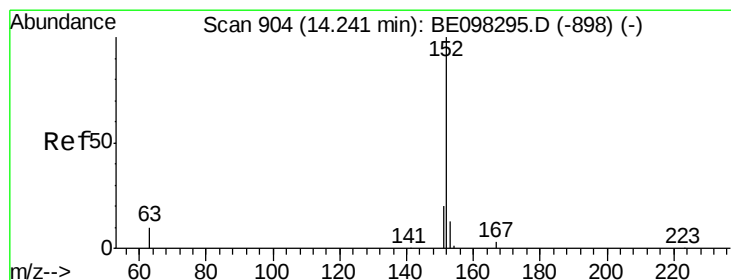
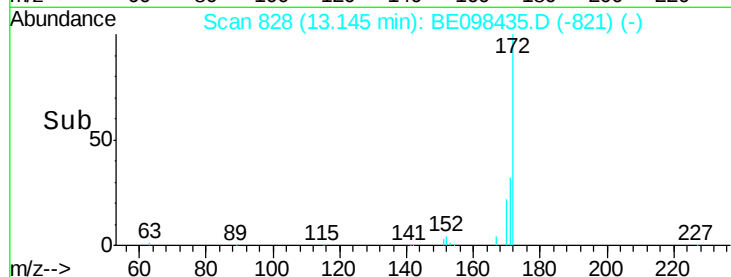
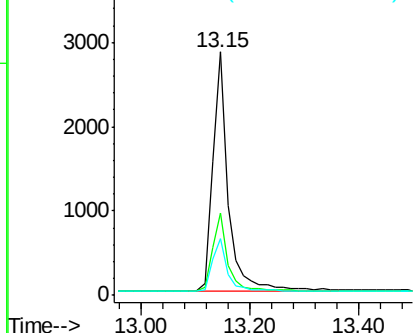
#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 13.15 min Scan# 828
Delta R.T. -0.00 min
Lab File: BE098435.D
Acq: 14 Dec 2018 14:41

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 5752
Ion Ratio Lower Upper
172 100
171 33.6 27.5 41.3
170 23.2 19.6 29.4

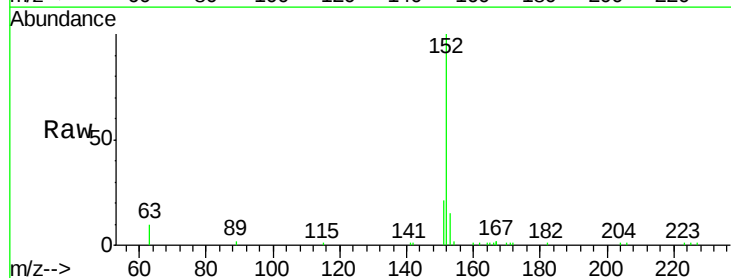


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

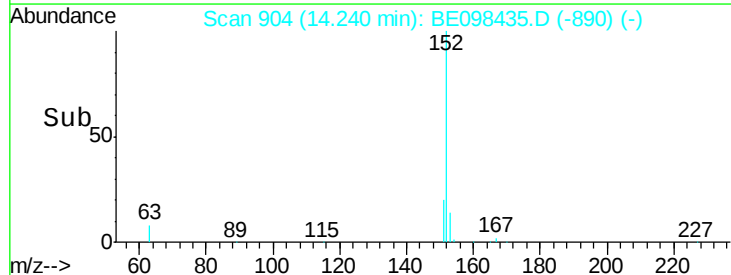
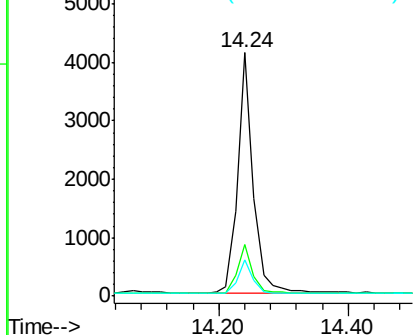


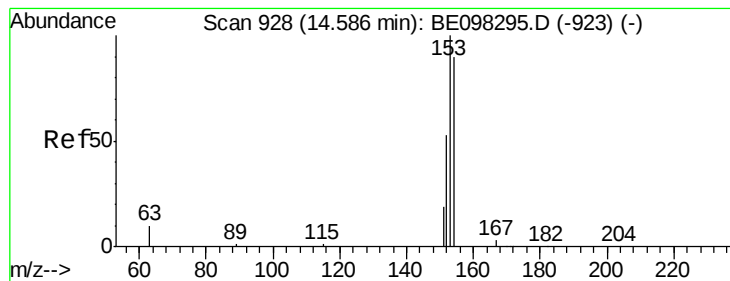
#16
Acenaphthylene
Concen: 0.386 ng
RT: 14.24 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE098435.D
Acq: 14 Dec 2018 14:41

Tgt Ion:152 Resp: 6886
Ion Ratio Lower Upper
152 100
151 19.9 15.5 23.3
153 13.2 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: 0.386 ng

RT: 14.59 min Scan# 928

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

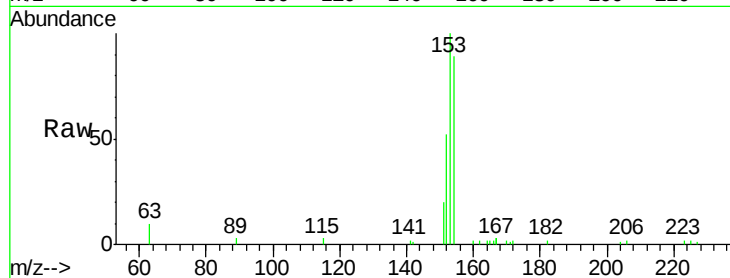
Tgt Ion:154 Resp: 4129

Ion Ratio Lower Upper

154 100

153 114.8 91.8 137.6

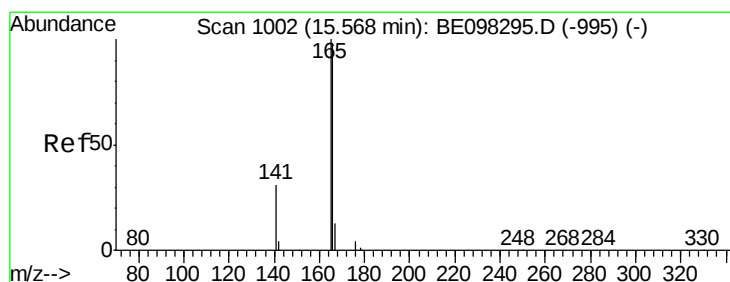
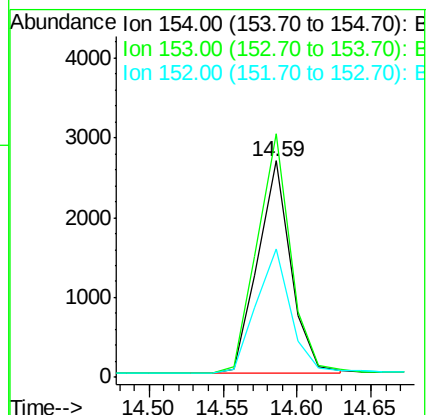
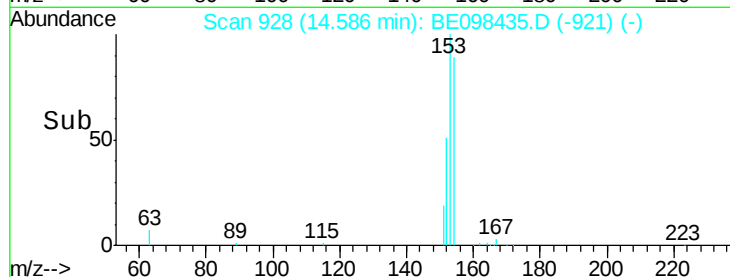
152 60.2 45.5 68.3



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: 0.383 ng

RT: 15.57 min Scan# 1002

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

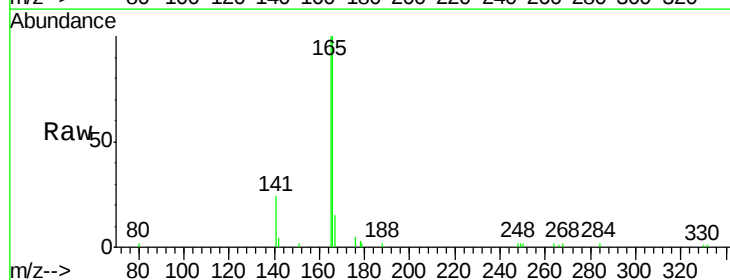
Tgt Ion:166 Resp: 5484

Ion Ratio Lower Upper

166 100

165 101.0 79.3 118.9

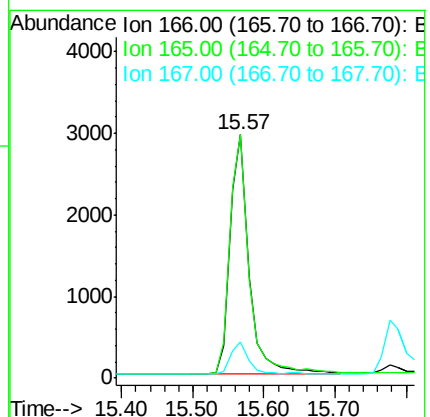
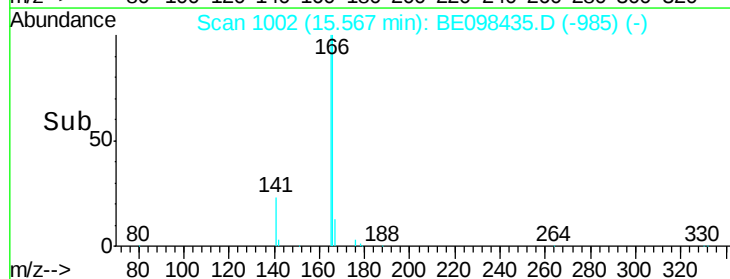
167 13.7 11.3 16.9

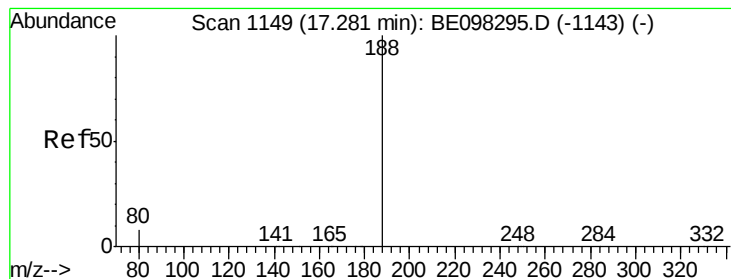


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

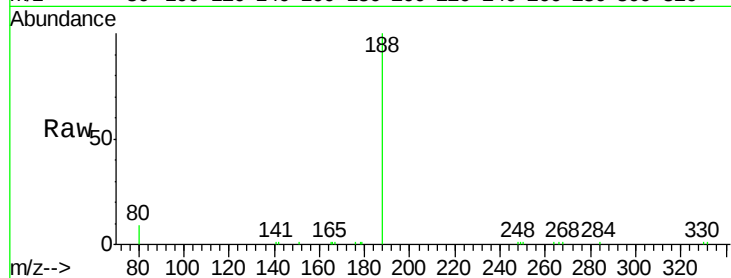
Tgt Ion:188 Resp: 10480

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 7.2 10.8



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

8000

6000

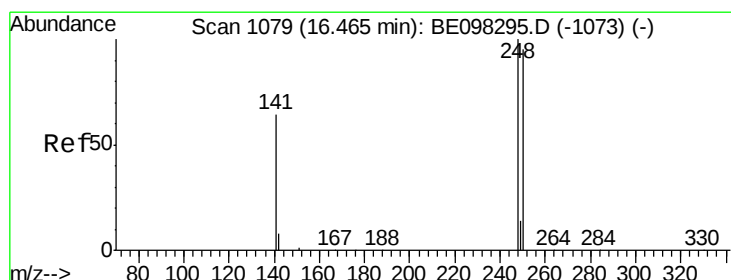
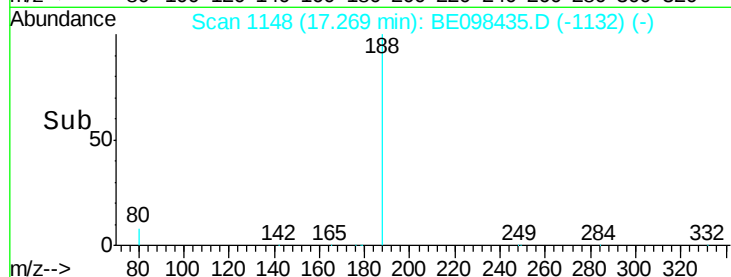
4000

2000

0

17.20 17.27 17.40 17.60

Time-->



#20

4-Bromophenyl-phenylether

Concen: 0.365 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

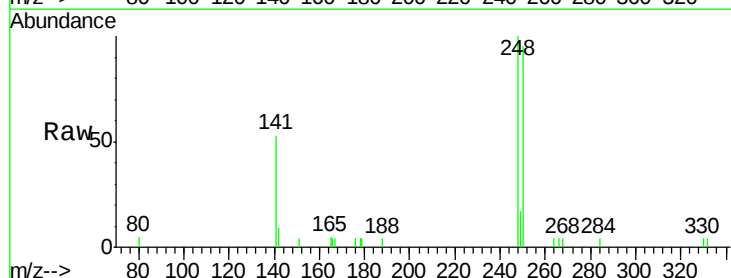
Tgt Ion:248 Resp: 2058

Ion Ratio Lower Upper

248 100

250 94.8 71.0 106.6

141 52.5 62.1 93.1#



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

1500

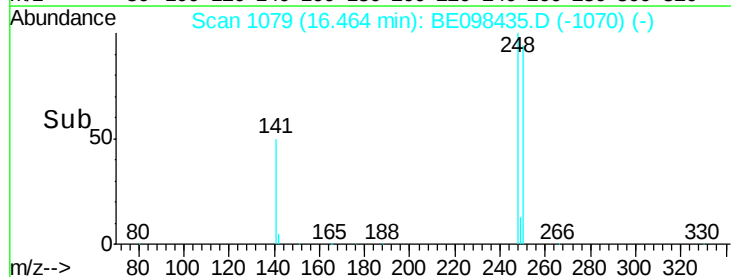
1000

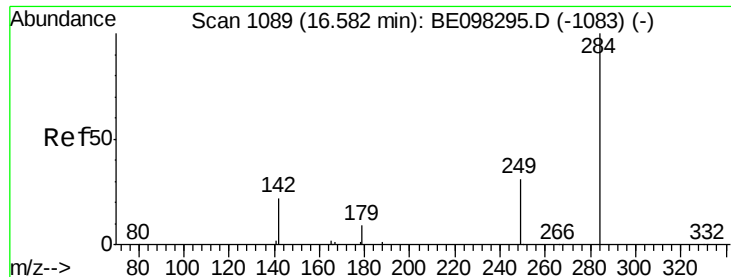
500

0

16.40 16.46 16.50

Time-->





#21

Hexachlorobenzene

Concen: 0.374 ng

RT: 16.57 min Scan# 1088

Delta R.T. -0.01 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

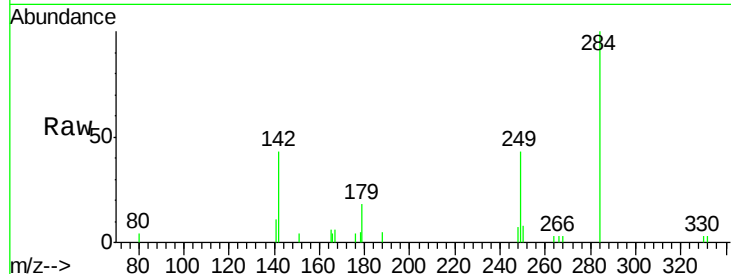
Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

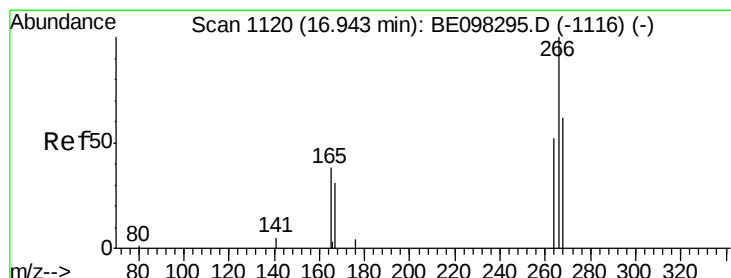
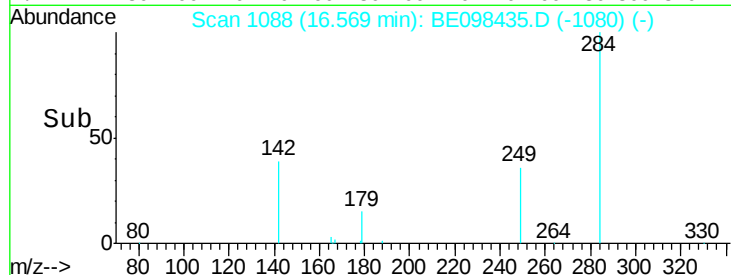
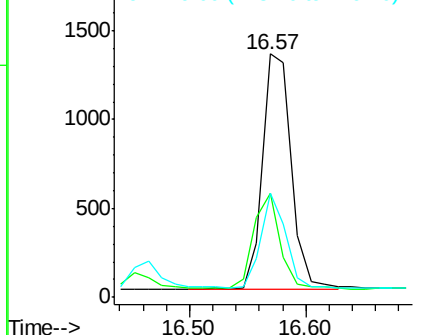
Tgt Ion:	284	Resp:	2270
Ion	Ratio	Lower	Upper
284	100		
142	37.2	26.3	39.5
249	35.0	26.0	39.0



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: 0.438 ng

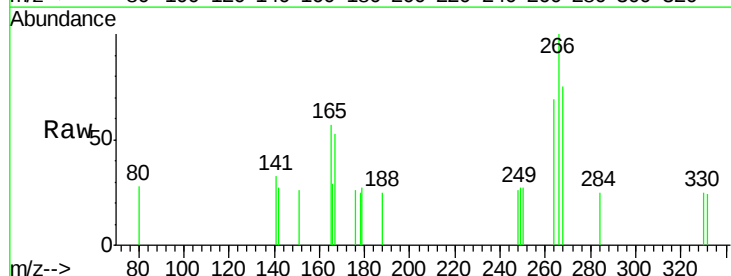
RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

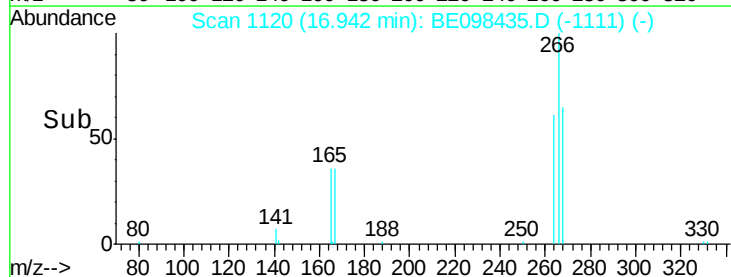
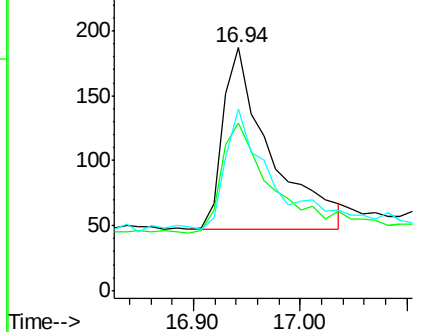
Tgt Ion:	266	Resp:	433
Ion	Ratio	Lower	Upper
266	100		
264	69.0	59.0	88.4
268	74.9	55.1	82.7

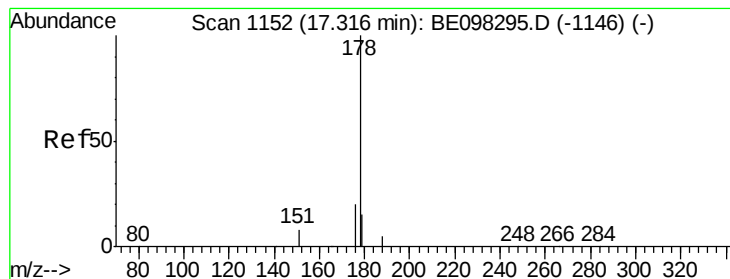


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.373 ng

RT: 17.32 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

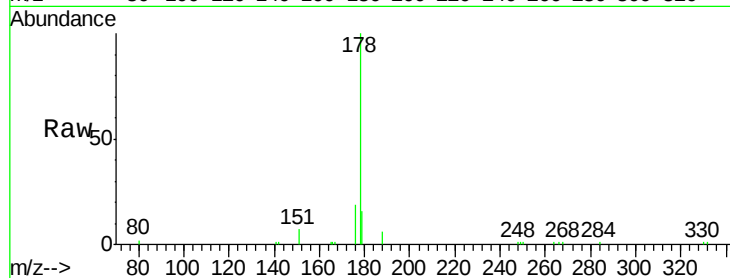
Tgt Ion:178 Resp: 9510

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

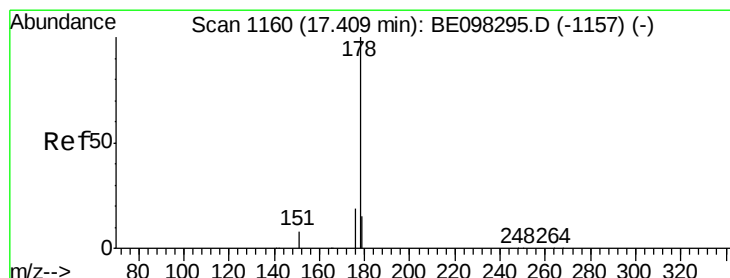
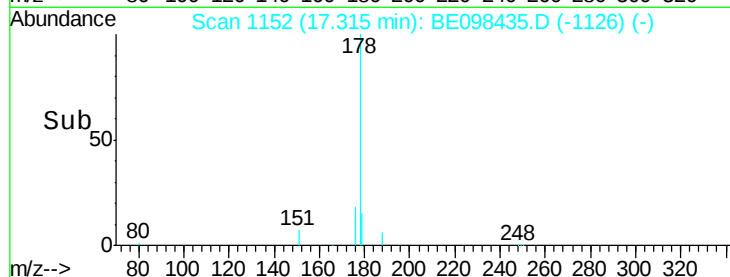
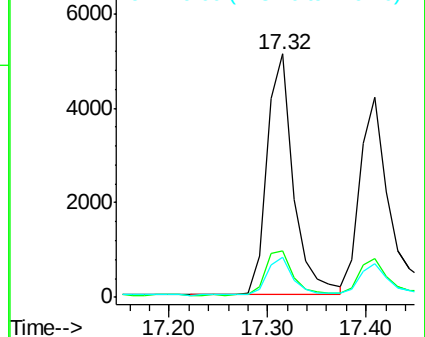
179 15.5 12.3 18.5



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



#24

Anthracene

Concen: 0.347 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

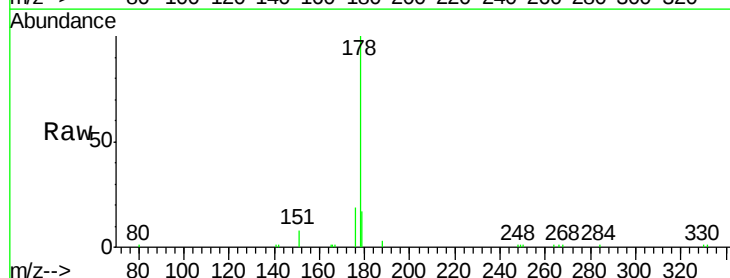
Tgt Ion:178 Resp: 7874

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

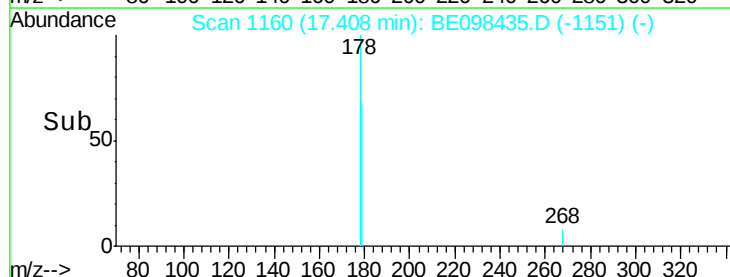
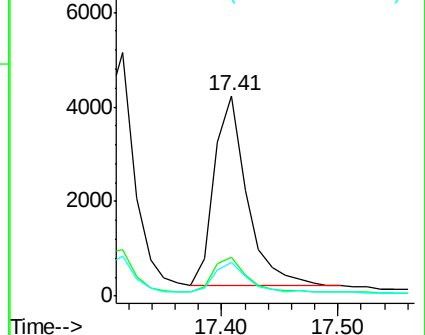
179 15.1 12.3 18.5

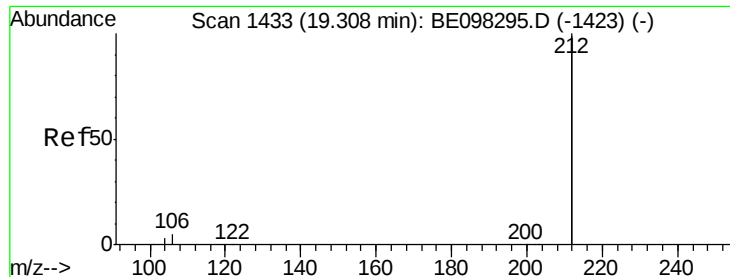


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.400 ng

RT: 19.30 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

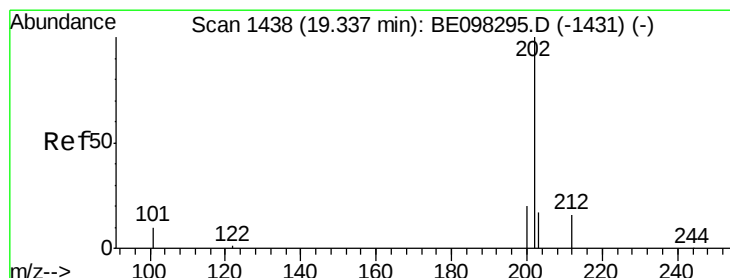
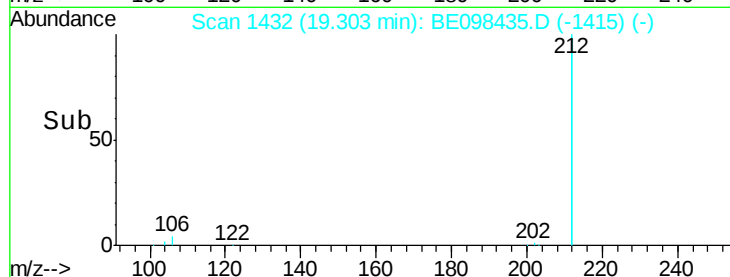
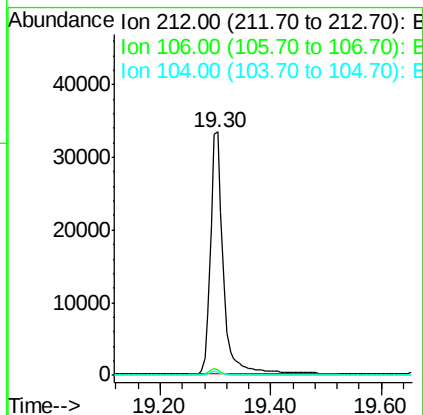
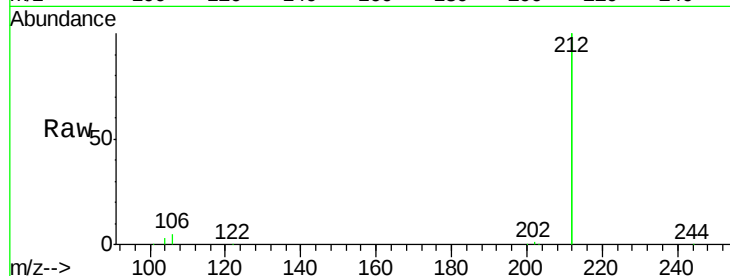
Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	212	Resp:	53745
Ion	Ratio	Lower	Upper
212	100		
106	2.5	2.2	3.2
104	1.4	1.3	1.9



#26

Fluoranthene

Concen: 0.401 ng

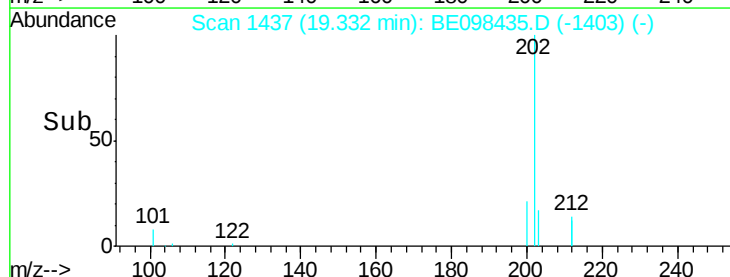
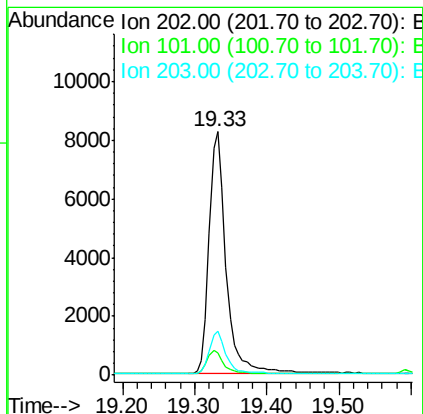
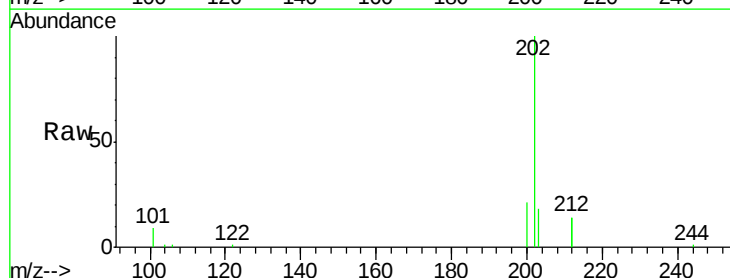
RT: 19.33 min Scan# 1437

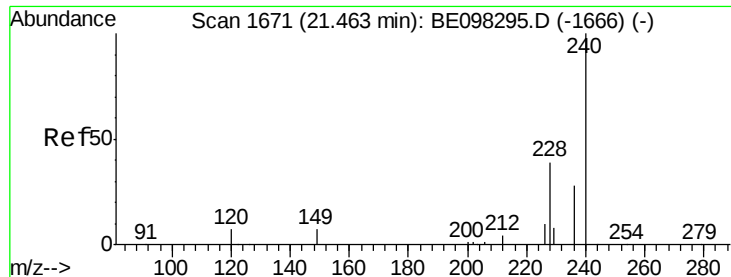
Delta R.T. -0.01 min

Lab File: BE098435.D

Acq: 14 Dec 2018 14:41

Tgt Ion:	202	Resp:	13515
Ion	Ratio	Lower	Upper
202	100		
101	9.4	8.0	12.0
203	16.8	13.8	20.6

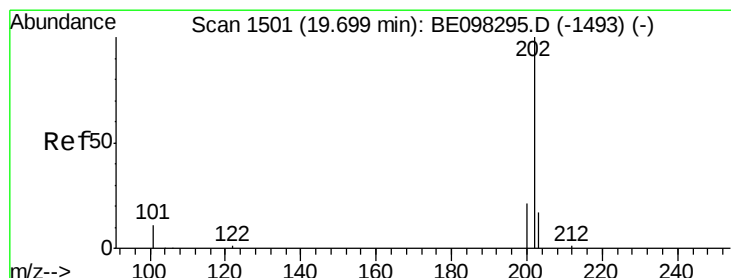
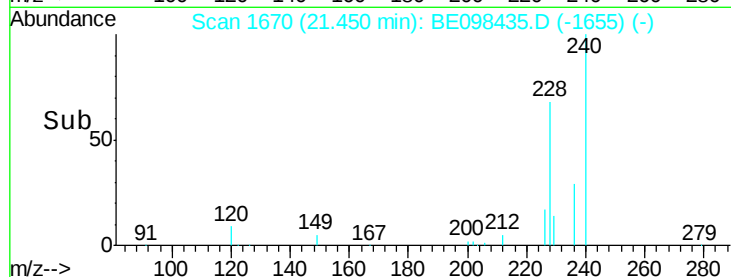
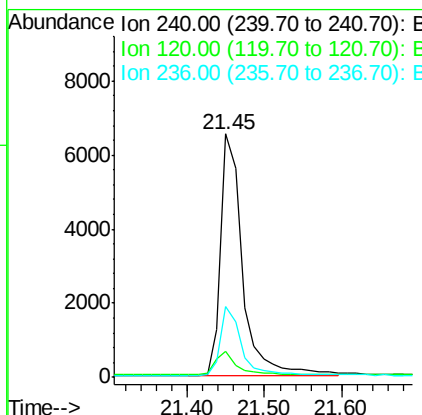
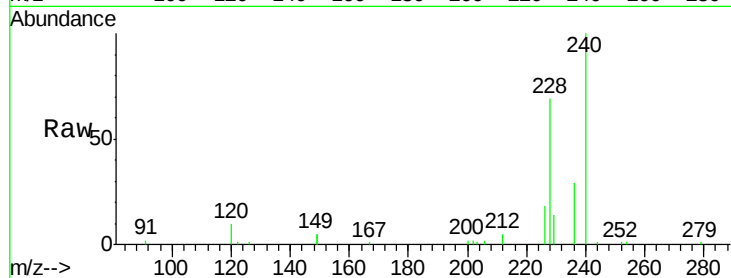




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.45 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: BE098435.D
 Acq: 14 Dec 2018 14:41

Instrument :
 BNA_E
 ClientSampleId :
 SSTCCCC0.4

Tgt Ion:240 Resp: 12877
 Ion Ratio Lower Upper
 240 100
 120 10.5 9.5 14.3
 236 29.2 22.7 34.1



#28
 Pyrene
 Concen: 0.343 ng
 RT: 19.69 min Scan# 1500
 Delta R.T. -0.01 min
 Lab File: BE098435.D
 Acq: 14 Dec 2018 14:41

Tgt Ion:202 Resp: 13842
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.7 25.1
 203 17.1 14.1 21.1

