

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE012518\
 Data File : BE095116.D
 Acq On : 25 Jan 2018 15:30
 Operator : SJ/JU
 Sample : J1236-06DL2 50X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TW-2DL2

Quant Time: Jan 25 19:22:24 2018
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE012318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 23 15:47:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.46	152	5397	0.40	ng	0.00
7) Naphthalene-d8	11.29	136	12494	0.40	ng	-0.02
13) Acenaphthene-d10	15.03	164	7379	0.40	ng	0.00
19) Phenanthrene-d10	17.74	188	16948	0.40	ng	0.00
27) Chrysene-d12	21.82	240	17000	0.40	ng	-0.01
34) Perylene-d12	24.48	264	15458	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.94	112	74	0.01	ng	0.00
5) Phenol-d6	7.58	99	366	0.03	ng	0.00
8) Nitrobenzene-d5	9.63	82	591	0.05	ng	0.00
11) 2-Methylnaphthalene-d10	12.84	152	149	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.50	330	104	0.14	ng	0.00
15) 2-Fluorobiphenyl	13.67	172	2579	0.08	ng	-0.01
25) Fluoranthene-d10	19.71	212	1636	0.01	ng	0.00
29) Terphenyl-d14	20.28	244	14038	0.40	ng	0.00

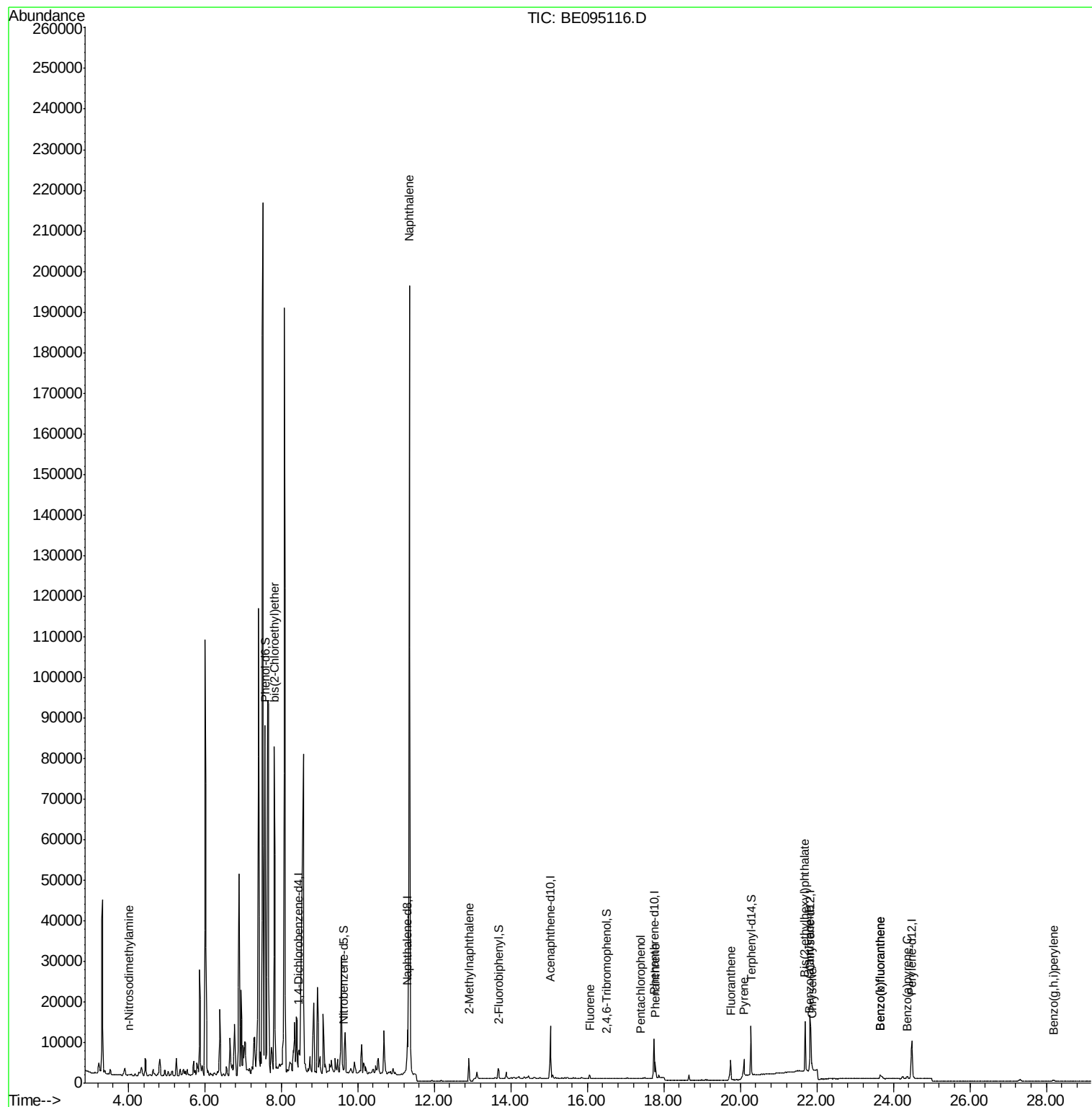
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	4.01	42	246	0.039	ng	# 1
6) bis(2-Chloroethyl)ether	7.82	93	2707	0.219	ng	# 1
9) Naphthalene	11.34	128	324551	2.270	ng	99
12) 2-Methylnaphthalene	12.91	142	4006	0.163	ng	99
18) Fluorene	16.05	166	702	0.022	ng	# 81
22) Pentachlorophenol	17.39	266	18	0.040	ng	96
23) Phenanthrene	17.77	178	4135	0.079	ng	98
26) Fluoranthene	19.74	202	4500	0.072	ng	# 97
28) Pyrene	20.10	202	4223	0.059	ng	# 92
30) Benzo(a)anthracene	21.81	228	1957	0.037	ng	# 94
31) Chrysene	21.87	228	1576	0.029	ng	# 88
32) Bis(2-ethylhexyl)phthalate	21.68	149	21664	0.293	ng	# 99
35) Benzo(b)fluoranthene	23.65	252	1974	0.036	ng	# 72
36) Benzo(k)fluoranthene	23.65	252	1974	0.035	ng	# 52
37) Benzo(a)pyrene	24.36	252	1217	0.024	ng	# 45
39) Benzo(g,h,i)perylene	28.18	276	964	0.021	ng	# 65

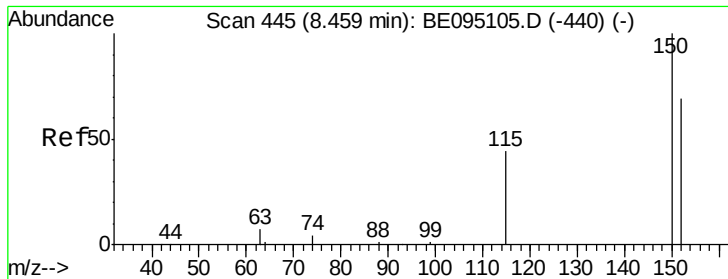
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.46 min Scan# 445

Delta R.T. -0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

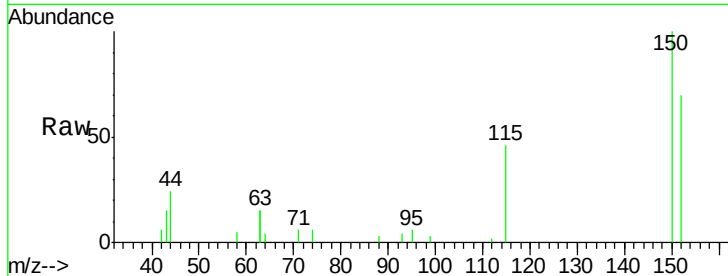
Tgt Ion: 152 Resp: 5397

Ion Ratio Lower Upper

152 100

150 142.7 117.2 175.8

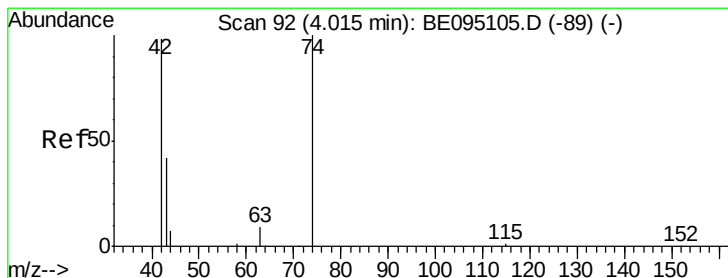
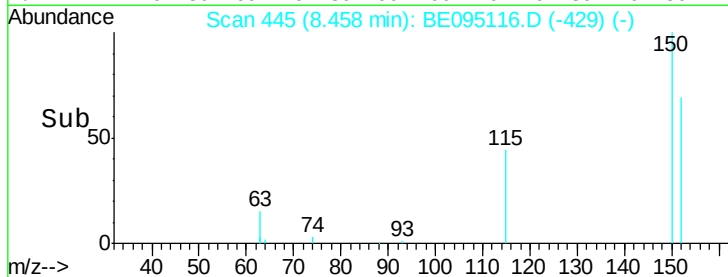
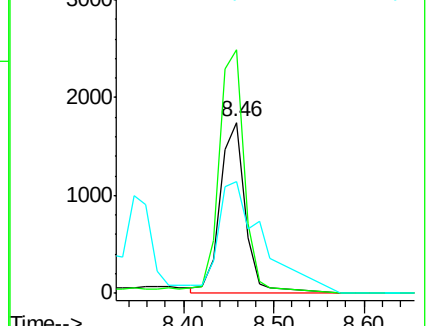
115 65.6 57.0 85.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

n-Nitrosodimethylamine

Concen: 0.039 ng

RT: 4.01 min Scan# 92

Delta R.T. -0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

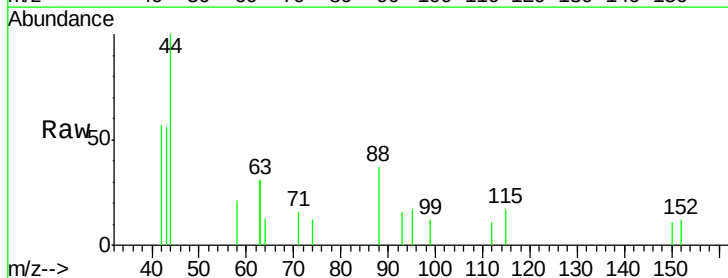
Tgt Ion: 42 Resp: 246

Ion Ratio Lower Upper

42 100

74 0.0 96.0 144.0#

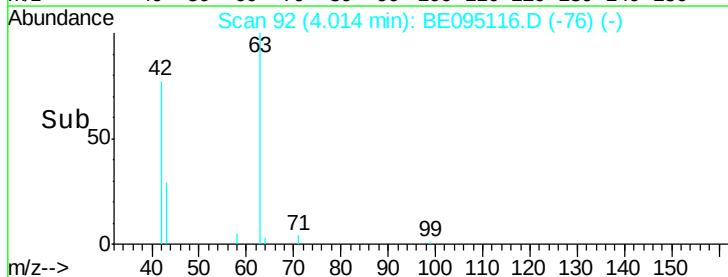
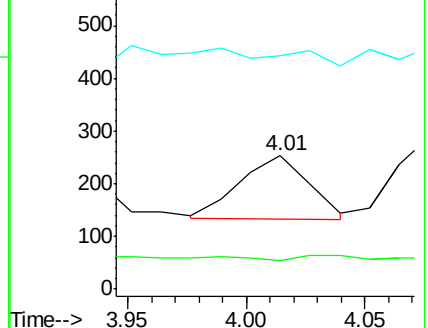
44 0.0 12.0 18.0#

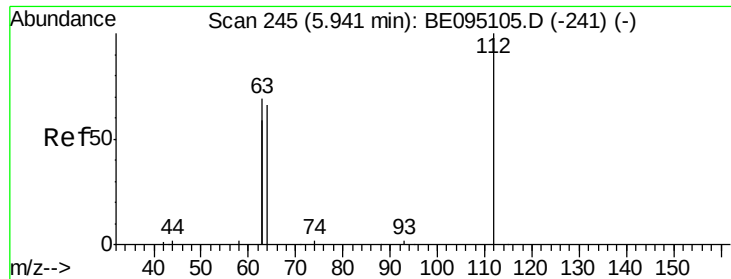


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.008 ng

RT: 5.94 min Scan# 245

Delta R.T. -0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

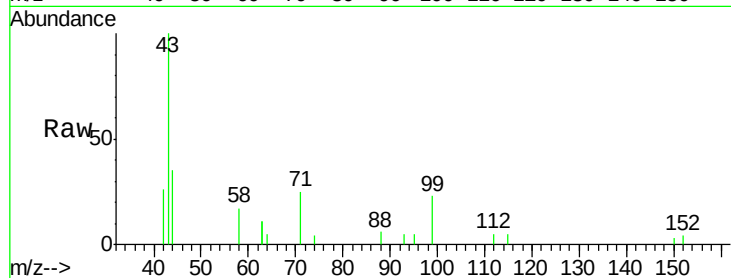
Tgt Ion:112 Resp: 74

Ion Ratio Lower Upper

112 100

64 0.0 60.1 90.1#

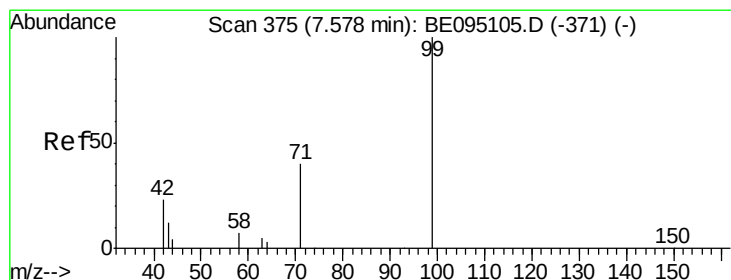
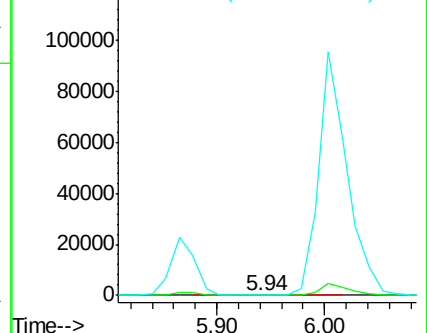
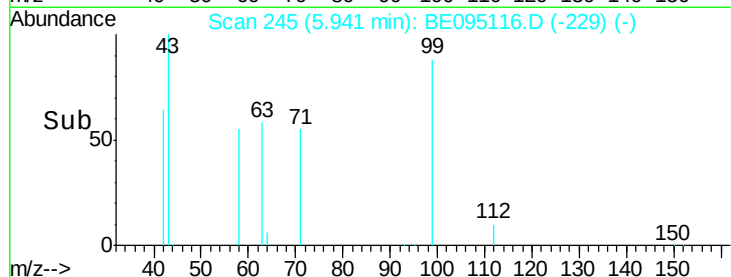
63 0.0 116.8 175.2#



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: 0.028 ng

RT: 7.58 min Scan# 375

Delta R.T. -0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

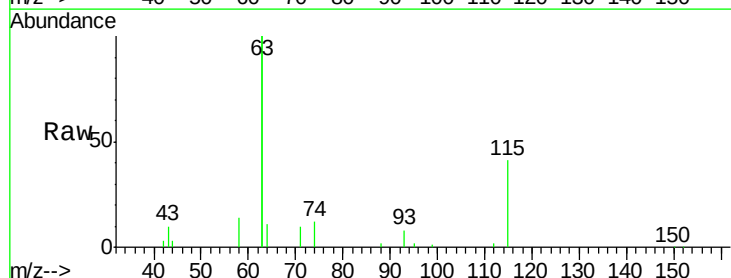
Tgt Ion: 99 Resp: 366

Ion Ratio Lower Upper

99 100

42 463.7 20.2 30.2#

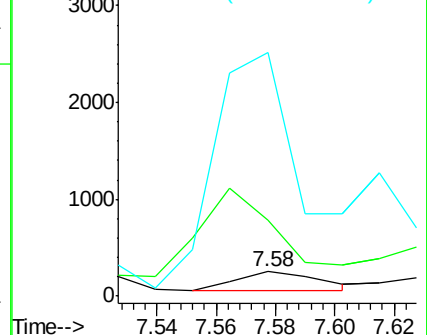
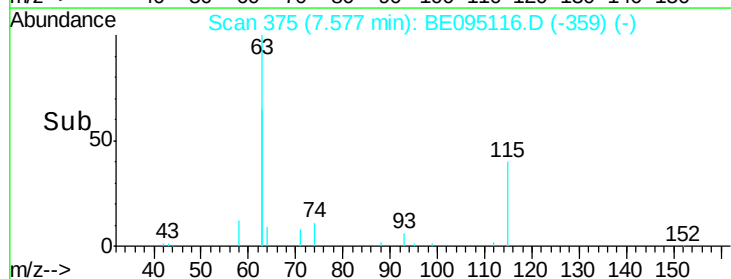
71 1773.8 28.4 42.6#

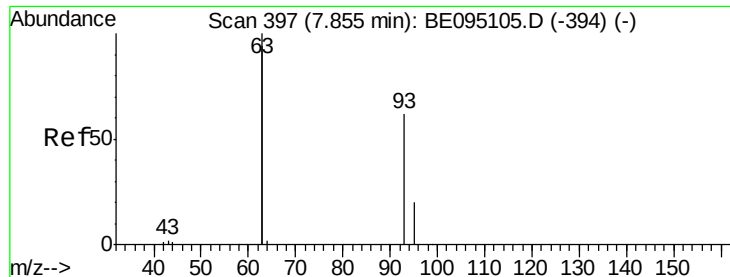


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.219 ng

RT: 7.82 min Scan# 394

Delta R.T. -0.04 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

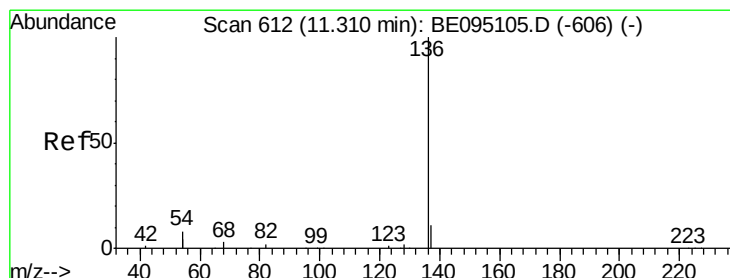
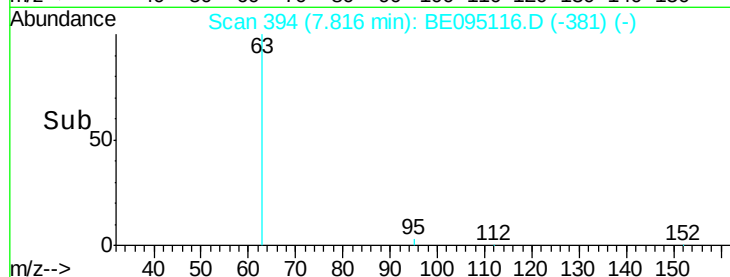
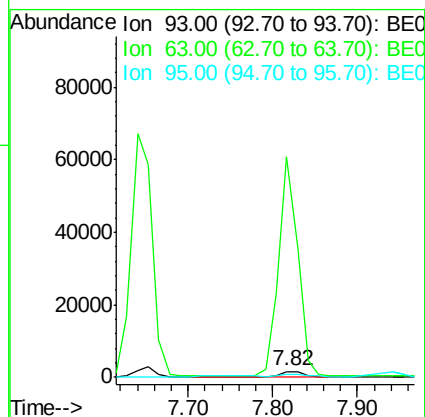
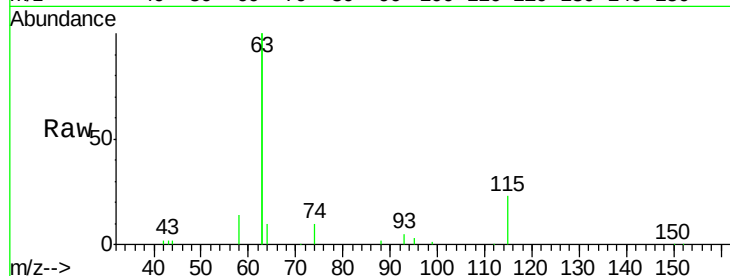
ClientSampleId :

TW-2DL2

Tgt Ion: 93 Resp: 2707

Ion Ratio Lower Upper

93	100		
63	3496.8	275.3	412.9#
95	67.6	25.2	37.8#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.29 min Scan# 611

Delta R.T. -0.02 min

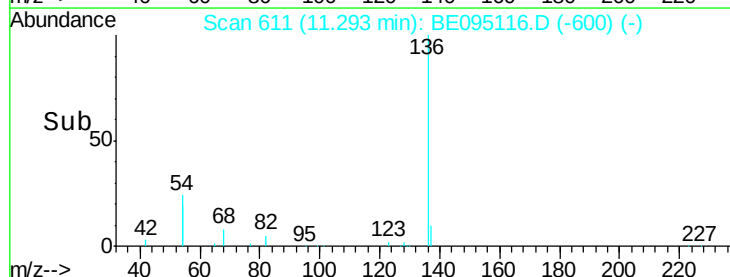
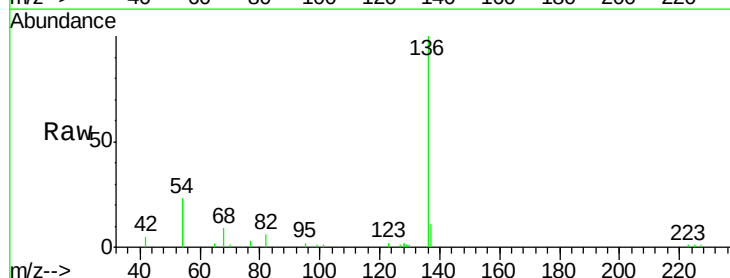
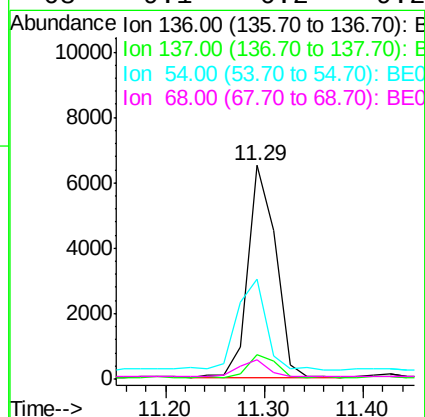
Lab File: BE095116.D

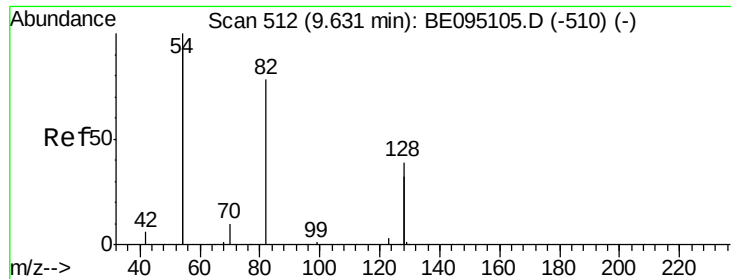
Acq: 25 Jan 2018 15:30

Tgt Ion: 136 Resp: 12494

Ion Ratio Lower Upper

136	100		
137	11.2	9.5	14.3
54	46.7	29.1	43.7#
68	9.1	6.2	9.2

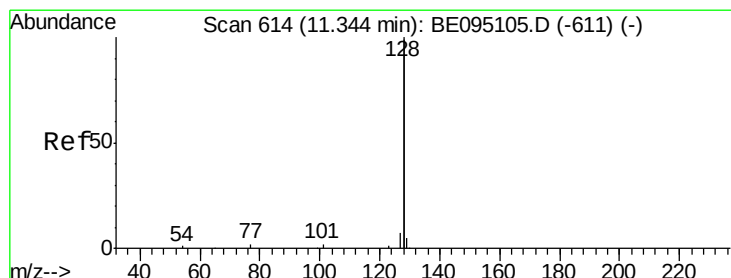
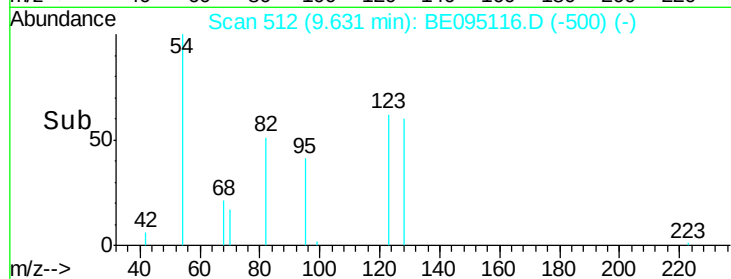
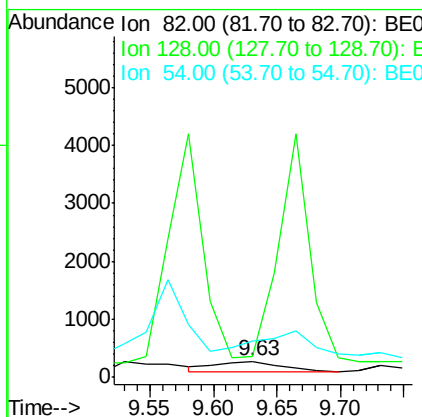
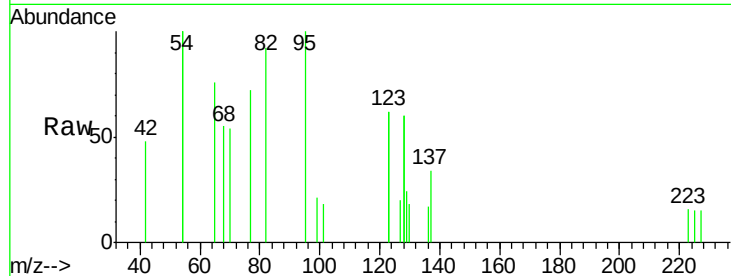




#8
 Nitrobenzene-d5
 Concen: 0.052 ng
 RT: 9.63 min Scan# 512
 Delta R.T. -0.00 min
 Lab File: BE095116.D
 Acq: 25 Jan 2018 15:30

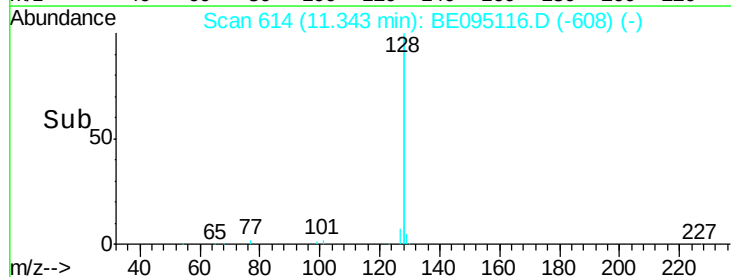
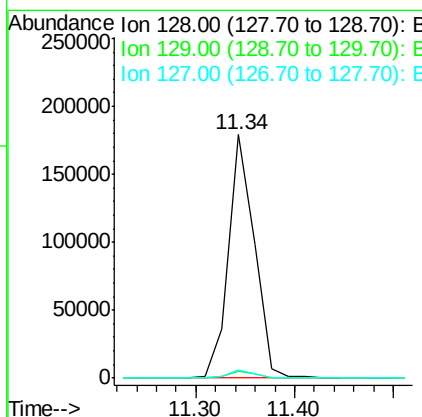
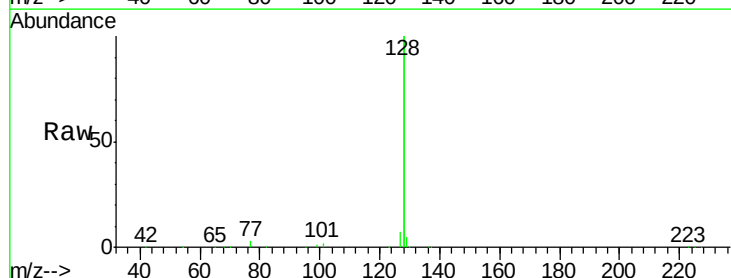
Instrument :
 BNA_E
 ClientSampleId :
 TW-2DL2

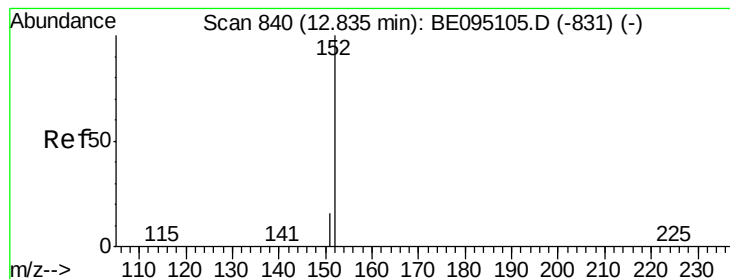
Tgt Ion: 82 Resp: 591
 Ion Ratio Lower Upper
 82 100
 128 130.0 150.0 225.0#
 54 218.4 154.2 231.4



#9
 Naphthalene
 Concen: 2.270 ng
 RT: 11.34 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: BE095116.D
 Acq: 25 Jan 2018 15:30

Tgt Ion: 128 Resp: 324551
 Ion Ratio Lower Upper
 128 100
 129 2.7 2.6 3.8
 127 3.4 2.8 4.2





#11

2-Methylnaphthalene-d10

Concen: 0.007 ng

RT: 12.84 min Scan# 840

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

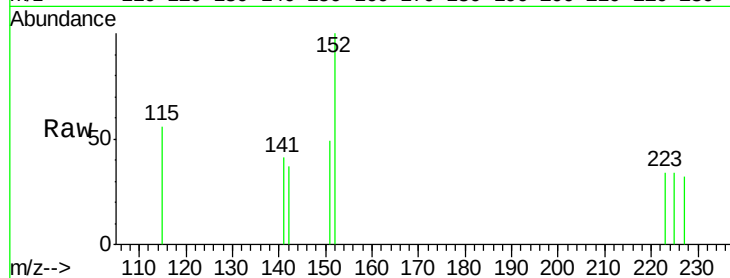
TW-2DL2

Tgt Ion:152 Resp: 149

Ion Ratio Lower Upper

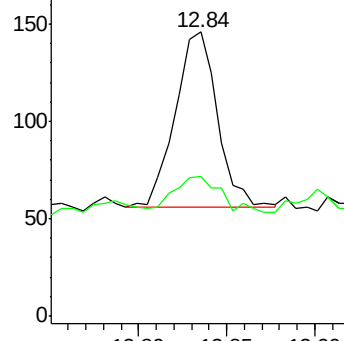
152 100

151 27.5 15.4 23.0#

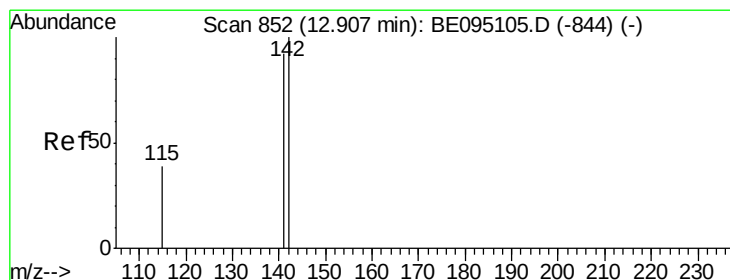
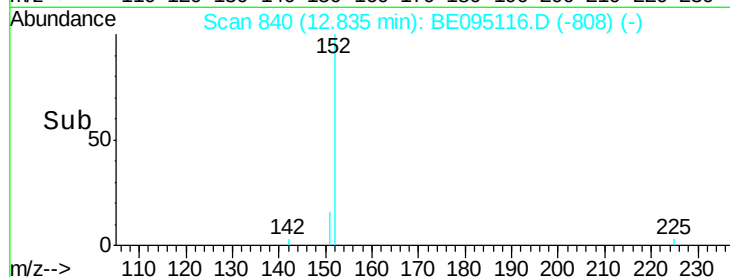


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.163 ng

RT: 12.91 min Scan# 852

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

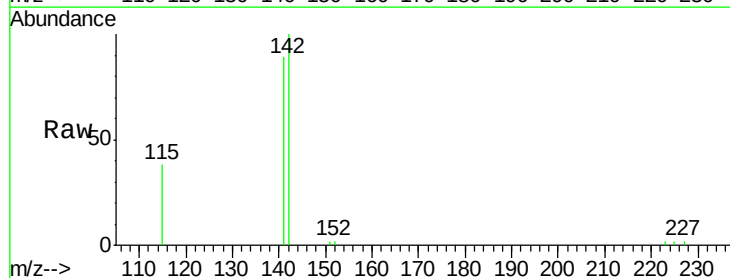
Tgt Ion:142 Resp: 4006

Ion Ratio Lower Upper

142 100

141 88.9 70.4 105.6

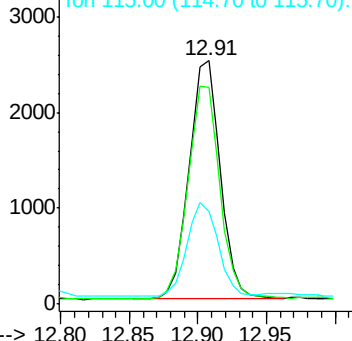
115 38.0 31.7 47.5



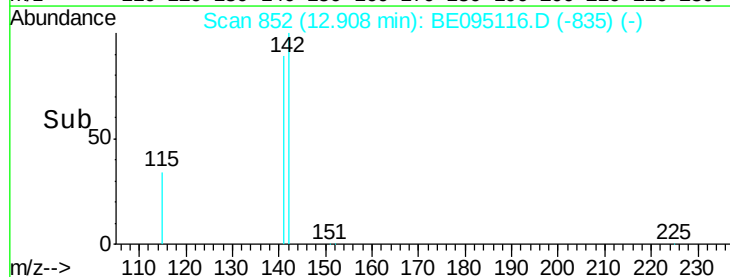
Abundance Ion 142.00 (141.70 to 142.70): E

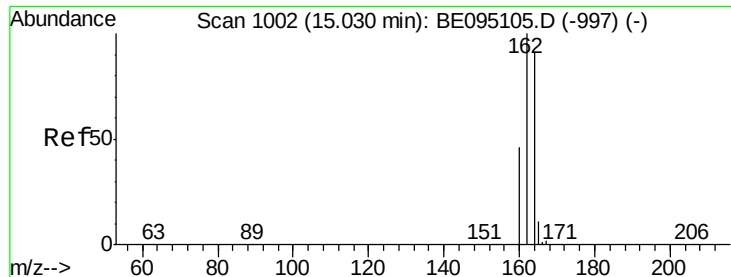
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.03 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

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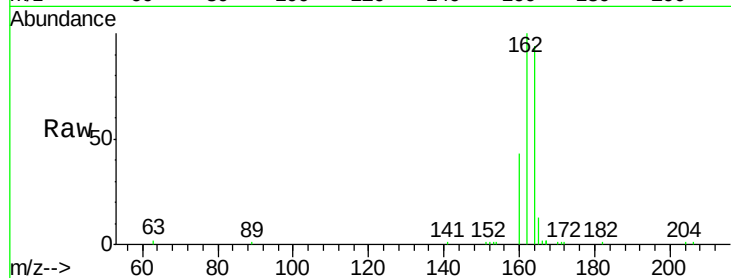
Tgt Ion:164 Resp: 7379

Ion Ratio Lower Upper

164 100

162 106.4 83.1 124.7

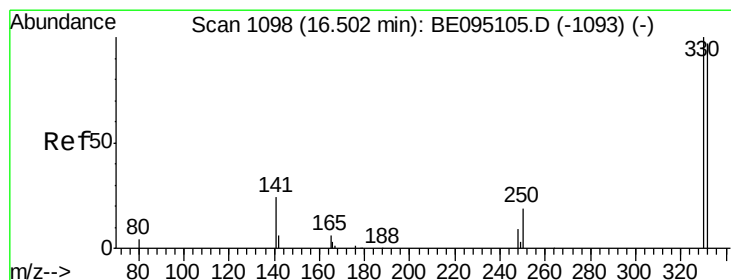
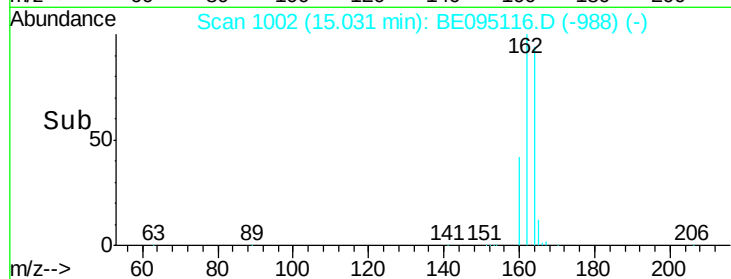
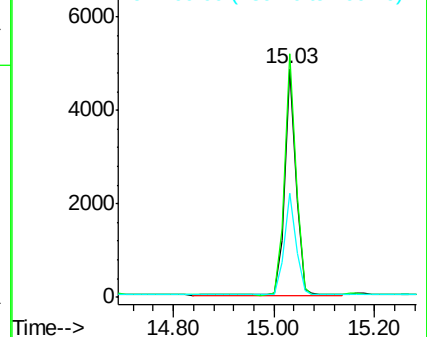
160 45.5 37.1 55.7



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: 0.138 ng

RT: 16.50 min Scan# 1098

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

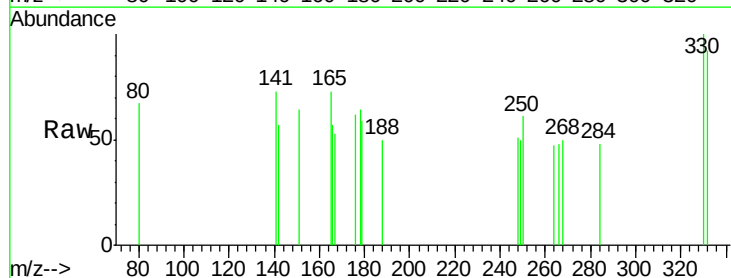
Tgt Ion:330 Resp: 104

Ion Ratio Lower Upper

330 100

332 78.8 152.7 229.1#

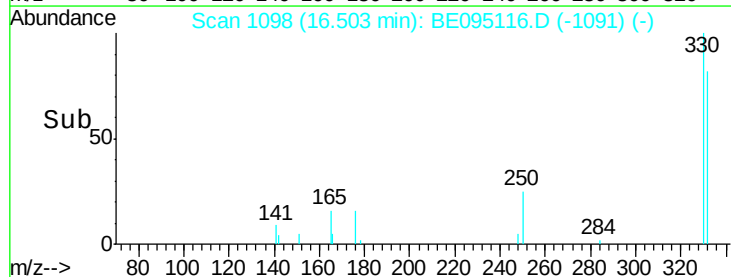
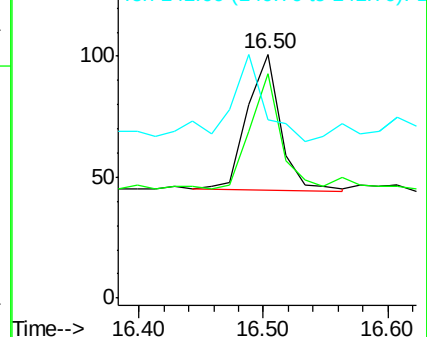
141 65.4 33.7 50.5#

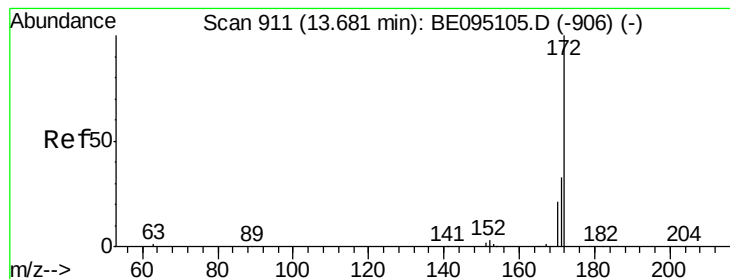


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.080 ng

RT: 13.67 min Scan# 910

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

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ClientSampleId :

TW-2DL2

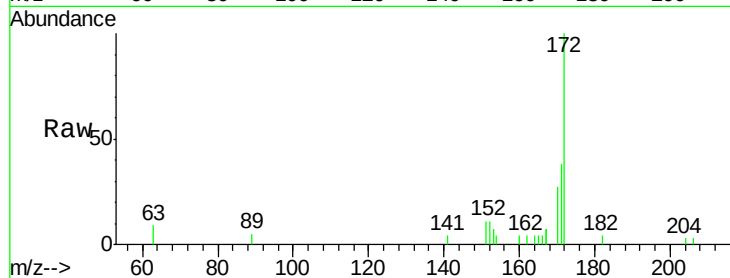
Tgt Ion:172 Resp: 2579

Ion Ratio Lower Upper

172 100

171 37.9 29.9 44.9

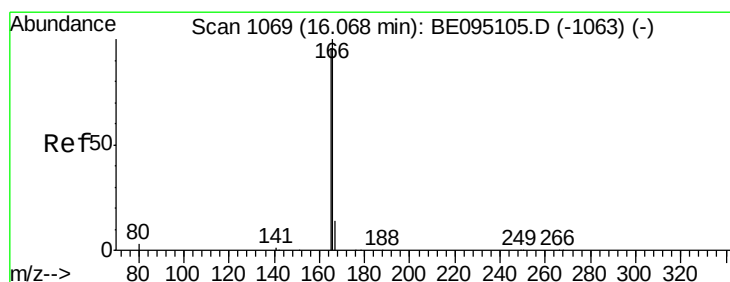
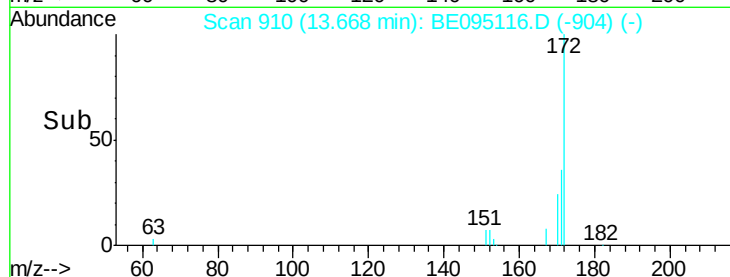
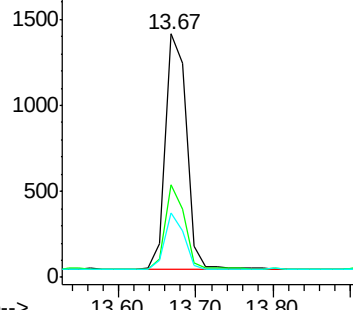
170 26.6 21.8 32.8



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



#18

Fluorene

Concen: 0.022 ng

RT: 16.05 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

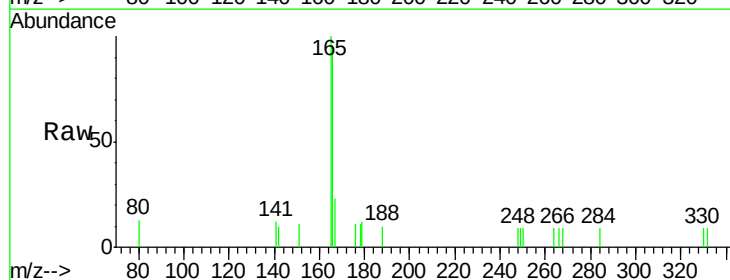
Tgt Ion:166 Resp: 702

Ion Ratio Lower Upper

166 100

165 101.3 77.8 116.6

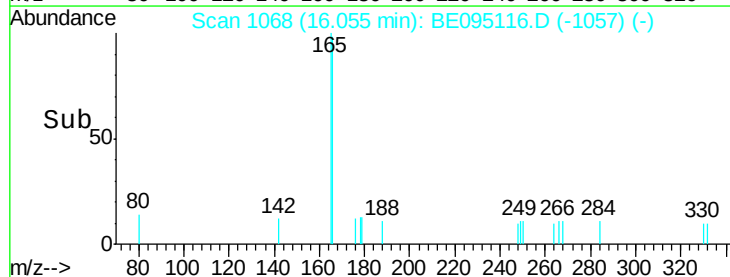
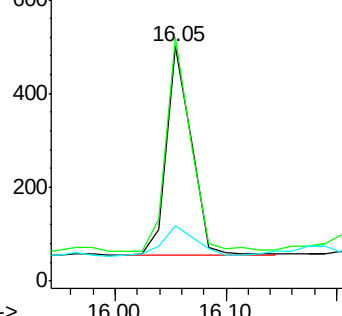
167 19.5 42.4 63.6#

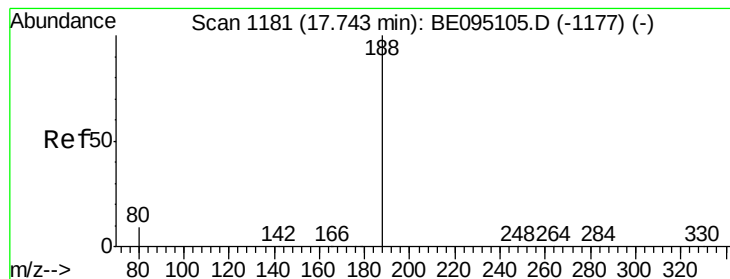


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.74 min Scan# 1181

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

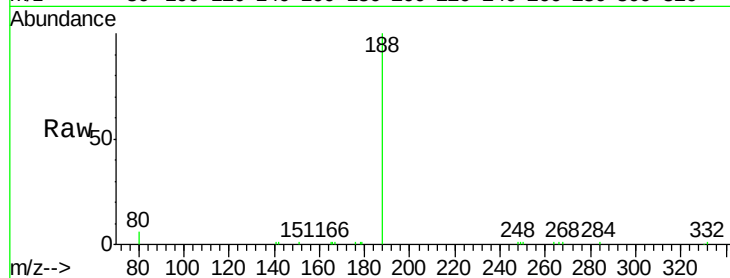
Tgt Ion:188 Resp: 16948

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

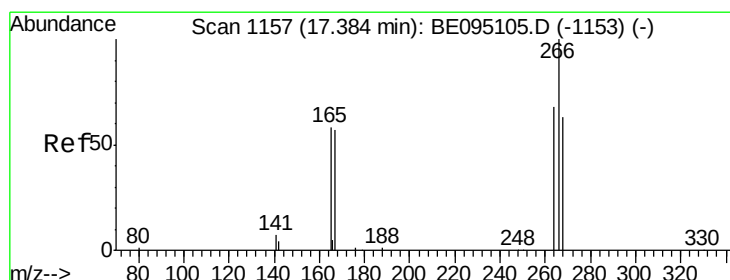
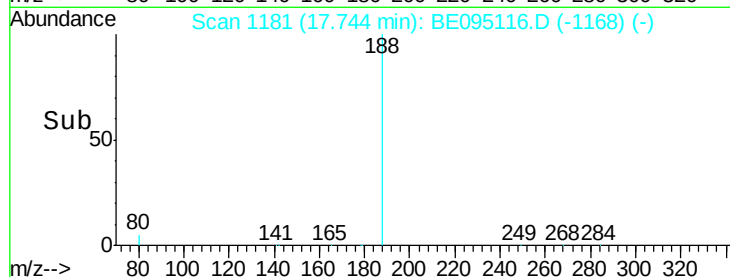
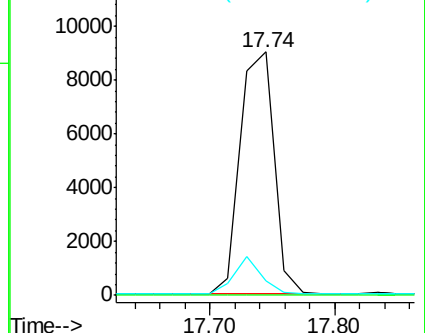
80 5.9 3.6 5.4#



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



#22

Pentachlorophenol

Concen: 0.040 ng

RT: 17.39 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

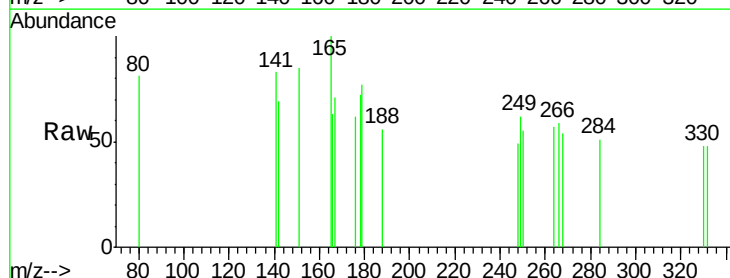
Tgt Ion:266 Resp: 18

Ion Ratio Lower Upper

266 100

264 96.4 72.5 108.7

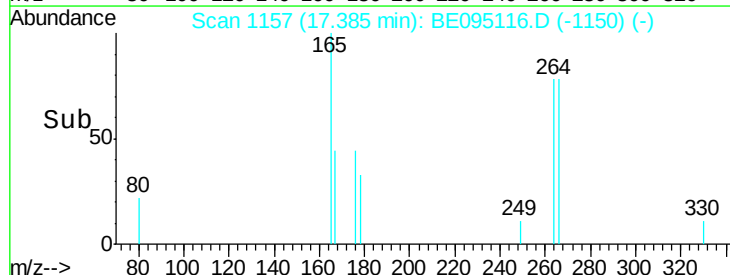
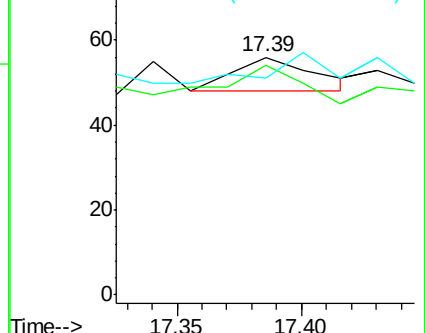
268 91.1 73.8 110.6

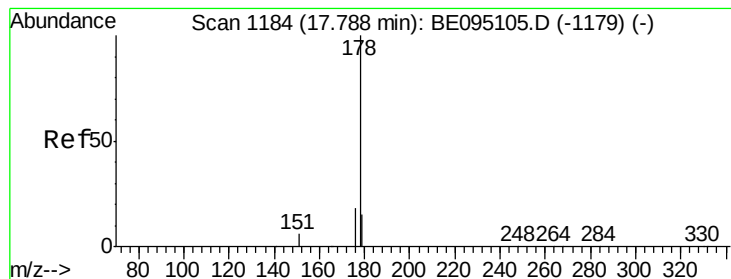


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.079 ng

RT: 17.77 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

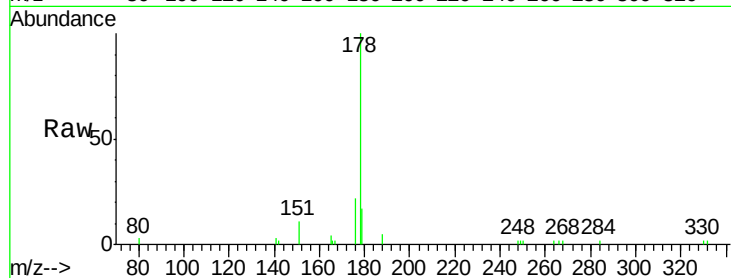
Tgt Ion:178 Resp: 4135

Ion Ratio Lower Upper

178 100

176 19.6 15.1 22.7

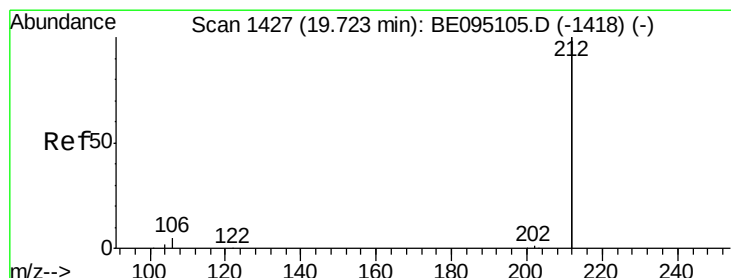
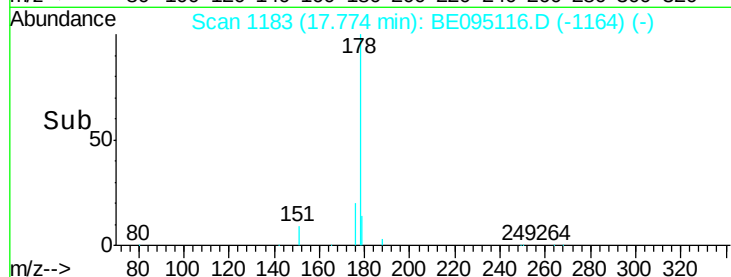
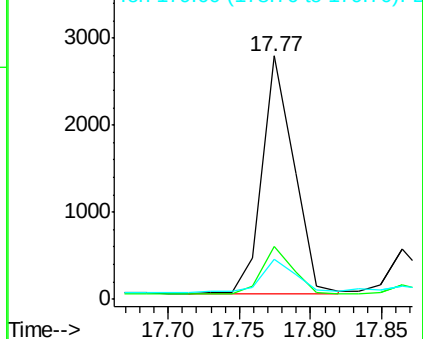
179 15.7 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.008 ng

RT: 19.71 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

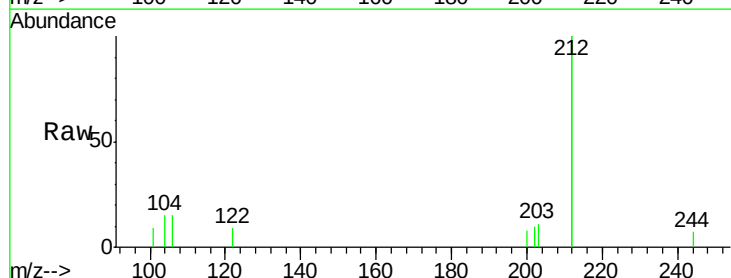
Tgt Ion:212 Resp: 1636

Ion Ratio Lower Upper

212 100

106 8.1 2.8 4.2#

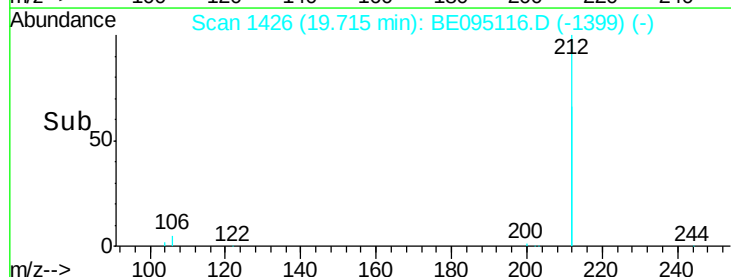
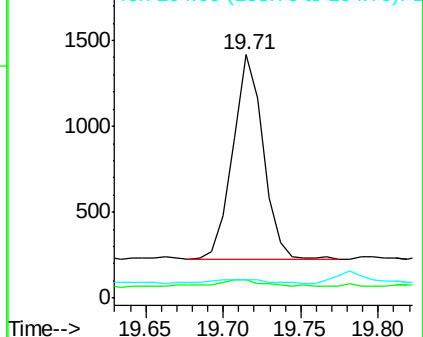
104 3.6 1.6 2.4#

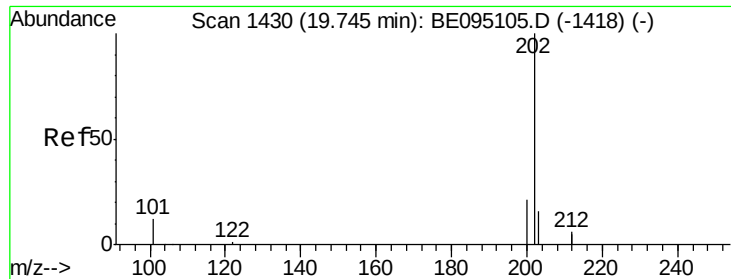


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

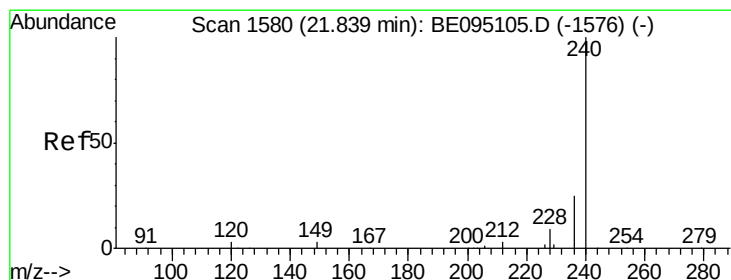
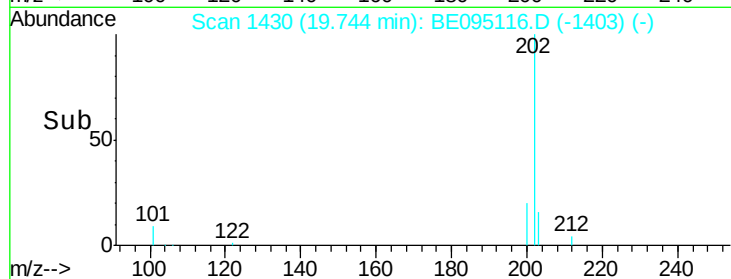
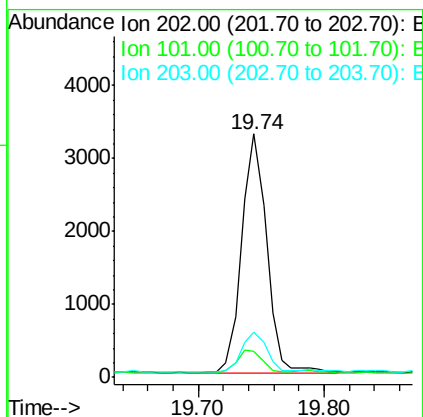
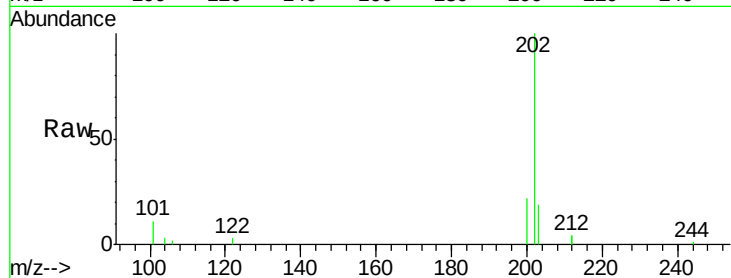




#26
Fluoranthene
Concen: 0.072 ng
RT: 19.74 min Scan# 1430
Delta R.T. -0.00 min
Lab File: BE095116.D
Acq: 25 Jan 2018 15:30

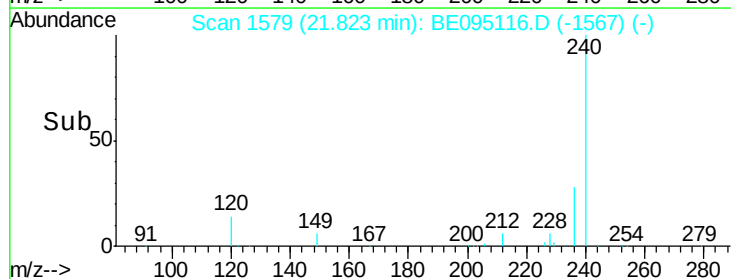
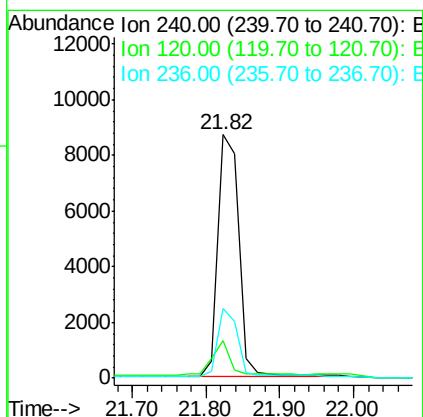
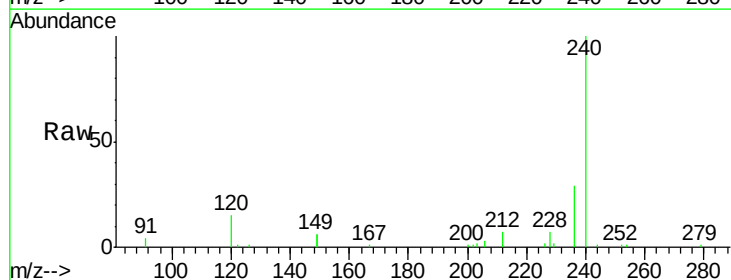
Instrument :
BNA_E
ClientSampleId :
TW-2DL2

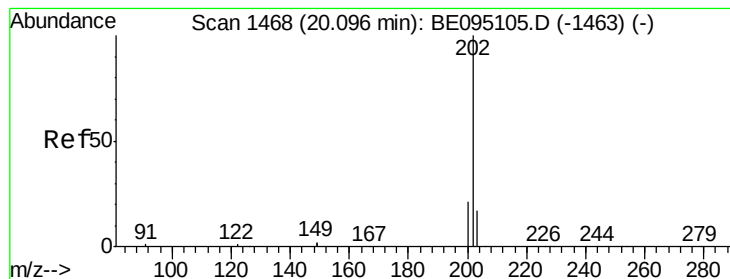
Tgt Ion:202 Resp: 4500
Ion Ratio Lower Upper
202 100
101 9.8 9.8 14.8#
203 17.0 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.82 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BE095116.D
Acq: 25 Jan 2018 15:30

Tgt Ion:240 Resp: 17000
Ion Ratio Lower Upper
240 100
120 15.2 5.5 8.3#
236 28.6 20.7 31.1





#28

Pyrene

Concen: 0.059 ng

RT: 20.10 min Scan# 1468

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

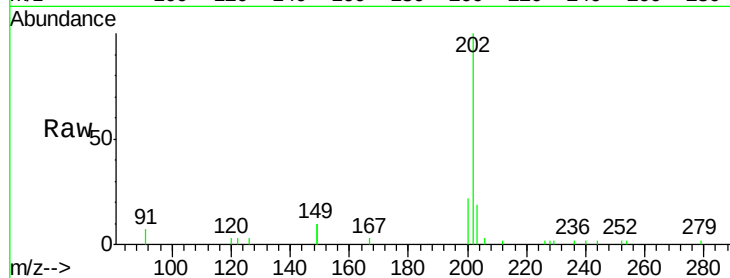
Tgt Ion: 202 Resp: 4223

Ion Ratio Lower Upper

202 100

200 20.3 16.6 25.0

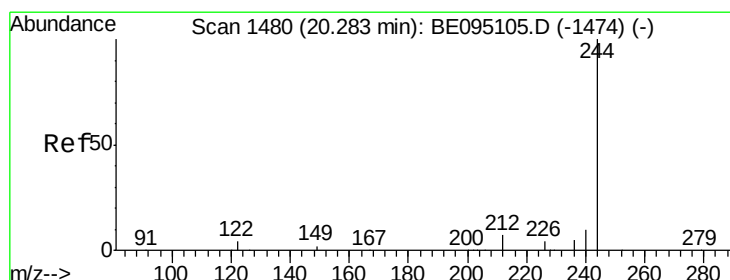
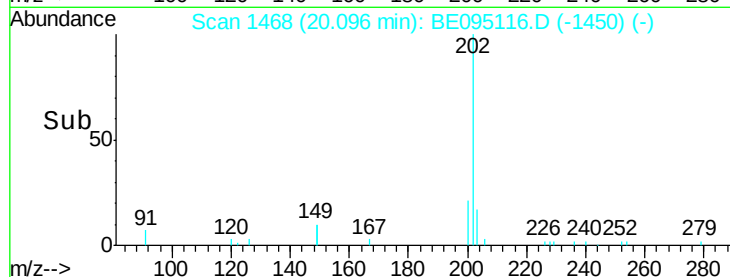
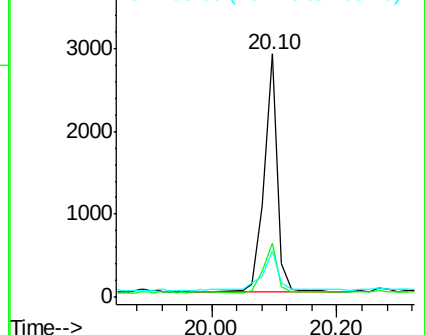
203 24.1 13.8 20.8#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.403 ng

RT: 20.28 min Scan# 1480

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

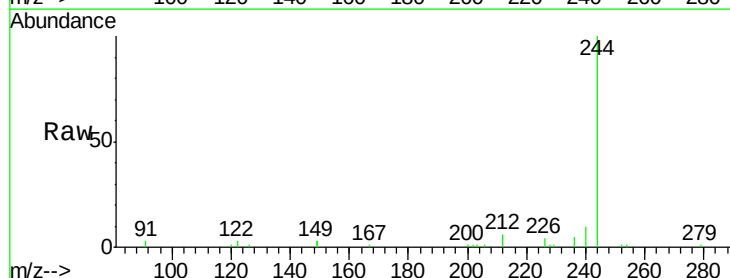
Tgt Ion: 244 Resp: 14038

Ion Ratio Lower Upper

244 100

212 5.7 25.4 38.0#

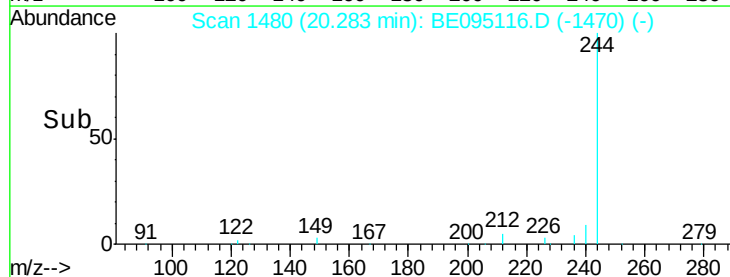
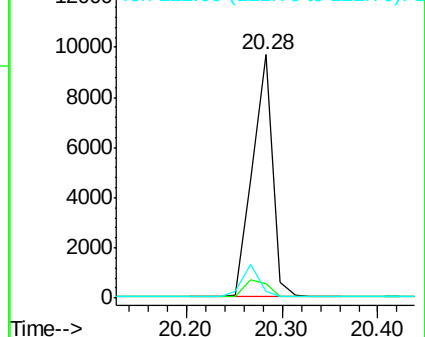
122 2.9 8.1 12.1#

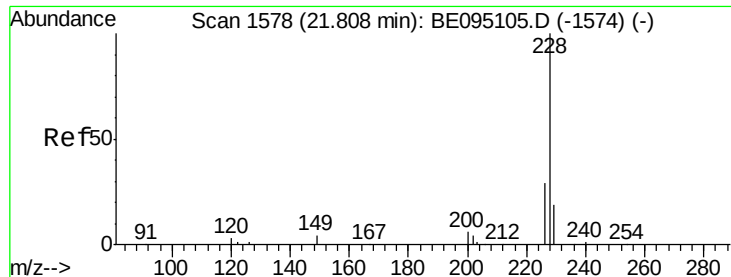


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.037 ng

RT: 21.81 min Scan# 1578

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

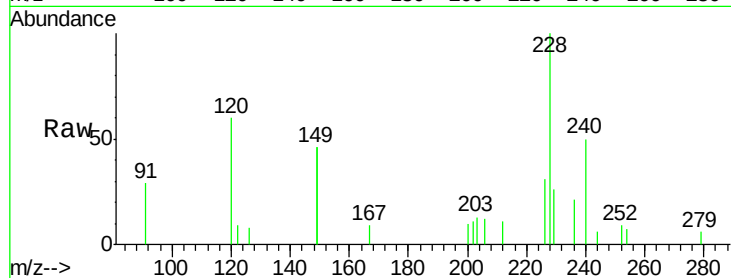
Tgt Ion:228 Resp: 1957

Ion Ratio Lower Upper

228 100

226 30.5 24.0 36.0

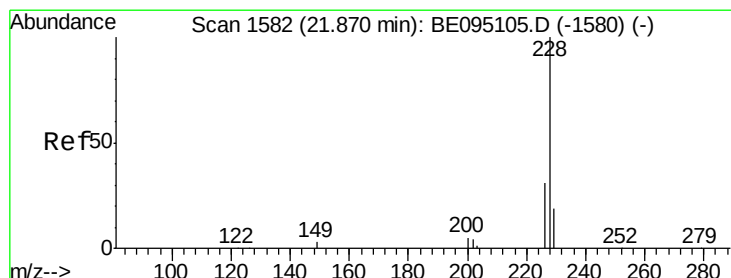
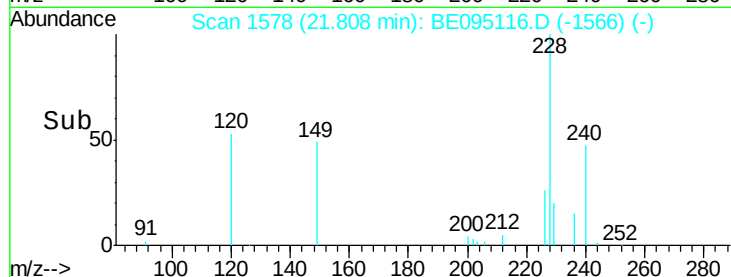
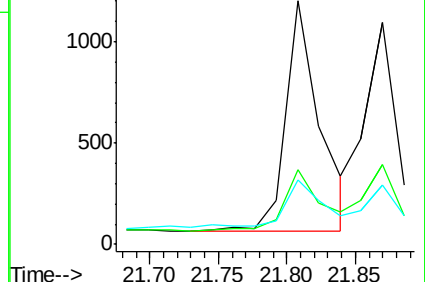
229 26.2 16.0 24.0#



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: 0.029 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

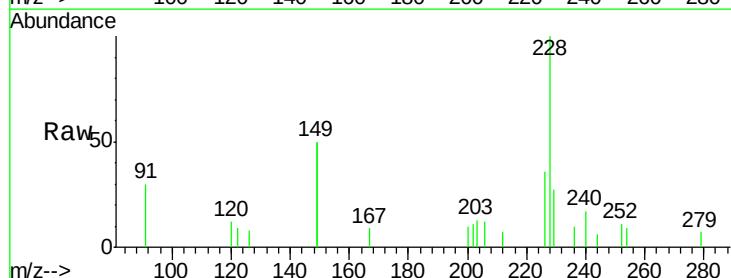
Tgt Ion:228 Resp: 1576

Ion Ratio Lower Upper

228 100

226 35.7 24.0 36.0

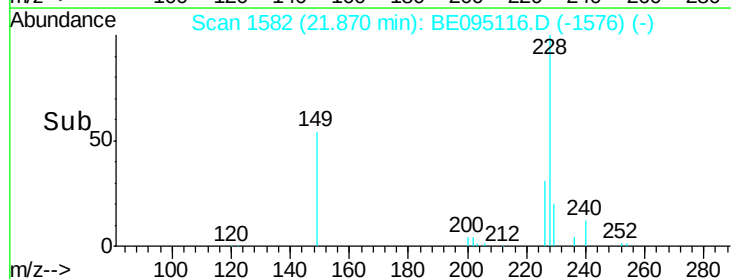
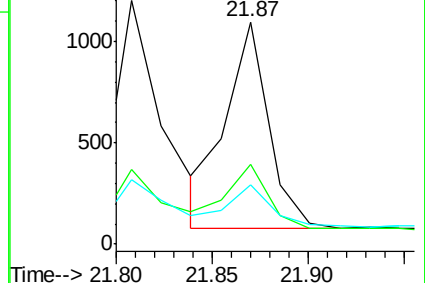
229 26.8 16.0 24.0#

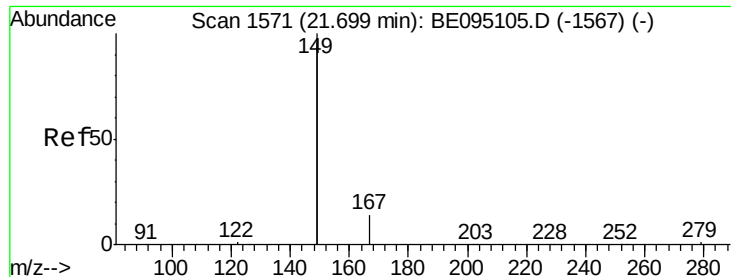


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.293 ng

RT: 21.68 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

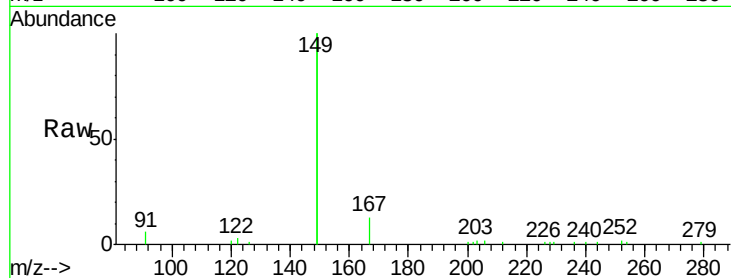
Tgt Ion:149 Resp: 21664

Ion Ratio Lower Upper

149 100

167 7.1 5.4 8.0

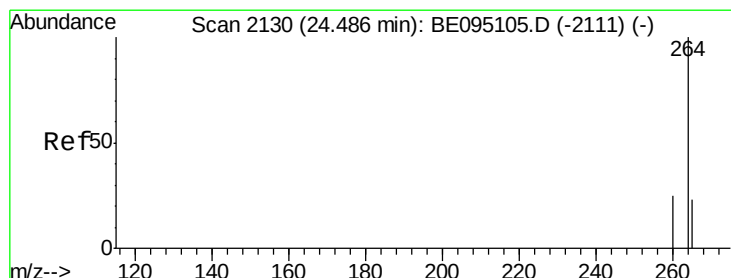
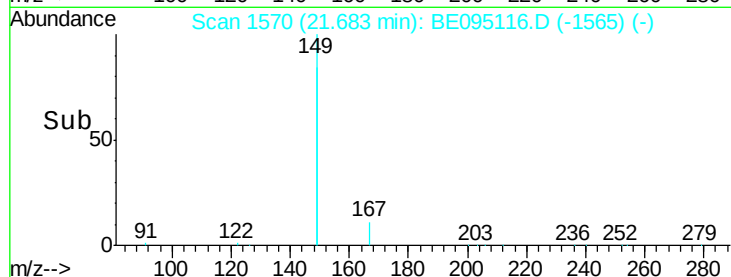
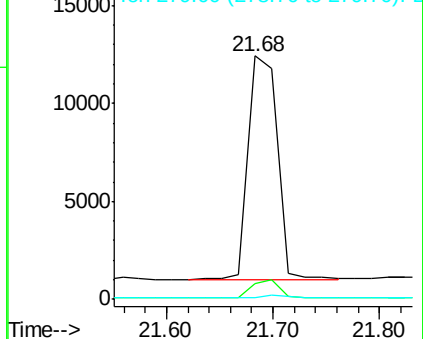
279 1.1 0.7 1.1#



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.48 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

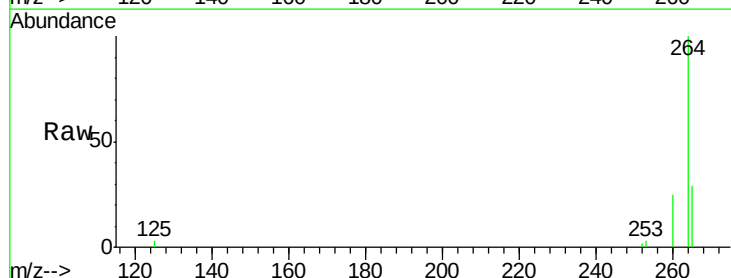
Tgt Ion:264 Resp: 15458

Ion Ratio Lower Upper

264 100

260 24.8 20.5 30.7

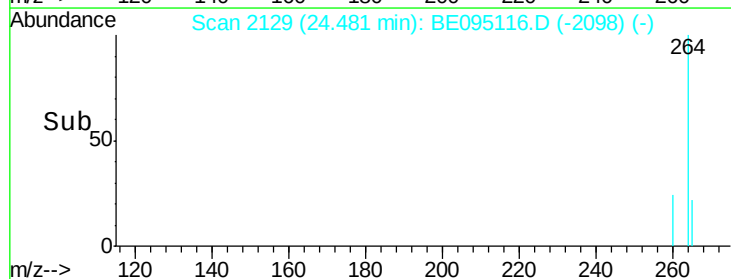
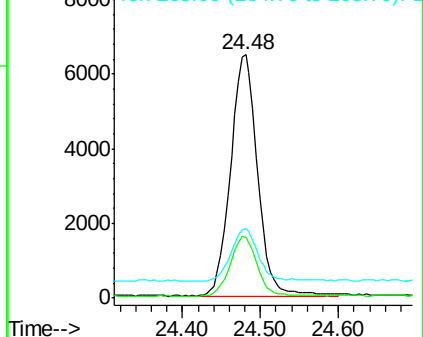
265 28.7 22.8 34.2

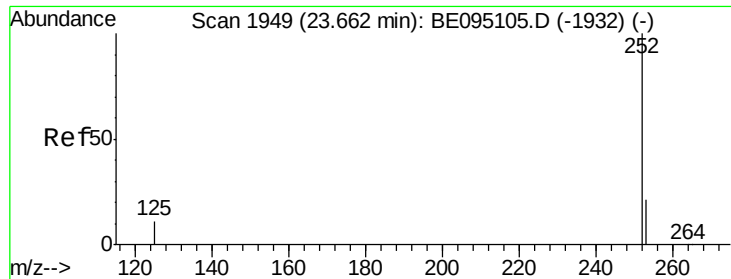


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.036 ng

RT: 23.65 min Scan# 1947

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

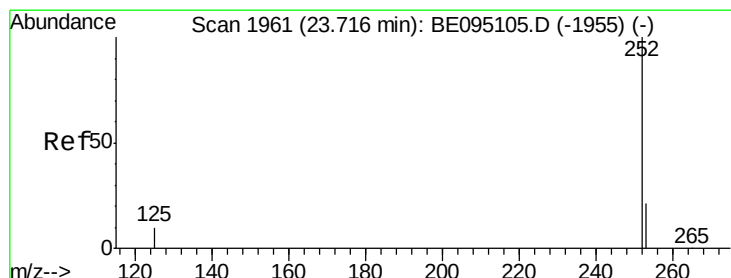
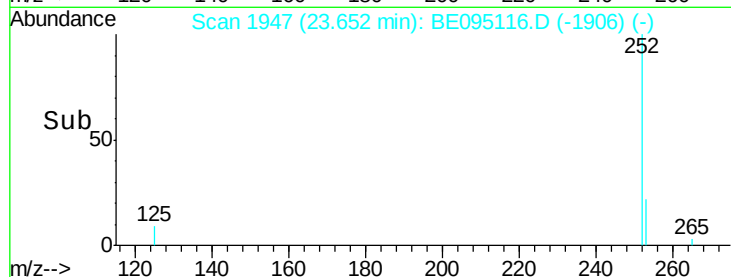
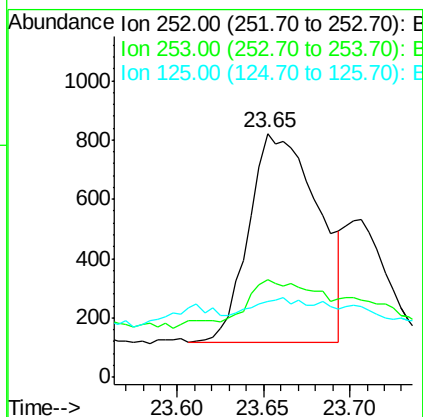
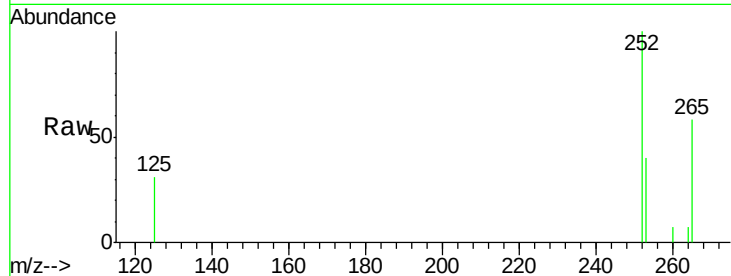
Tgt Ion:252 Resp: 1974

Ion Ratio Lower Upper

252 100

253 40.3 20.0 30.0#

125 30.9 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.035 ng

RT: 23.65 min Scan# 1947

Delta R.T. -0.07 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

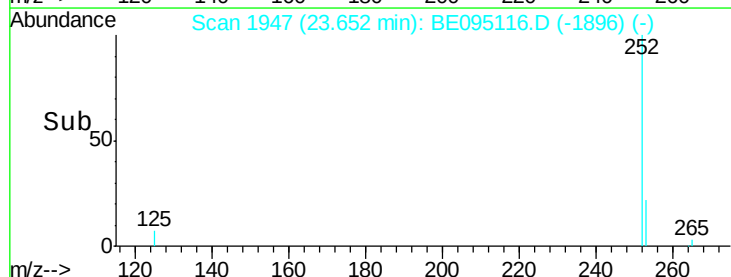
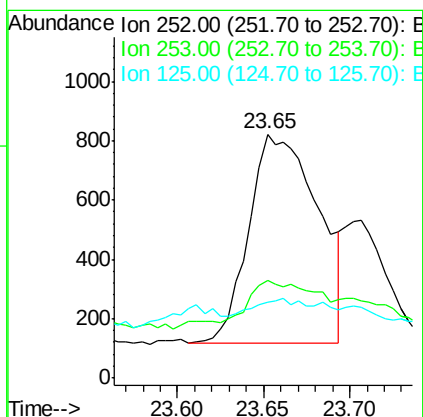
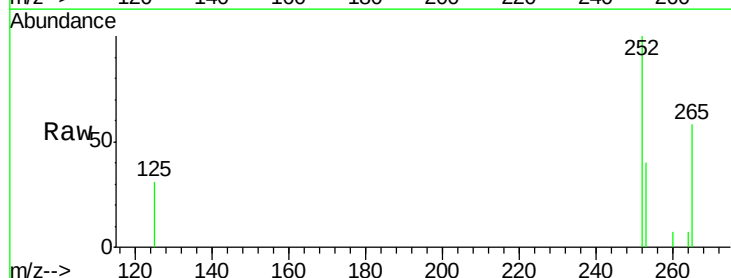
Tgt Ion:252 Resp: 1974

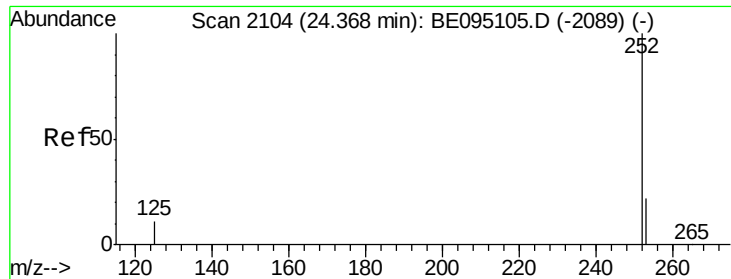
Ion Ratio Lower Upper

252 100

253 40.3 16.0 24.0#

125 30.9 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.024 ng

RT: 24.36 min Scan# 2102

Delta R.T. -0.01 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

Instrument :

BNA_E

ClientSampleId :

TW-2DL2

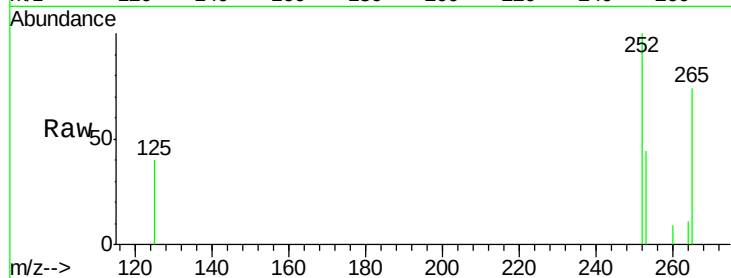
Tgt Ion: 252 Resp: 1217

Ion Ratio Lower Upper

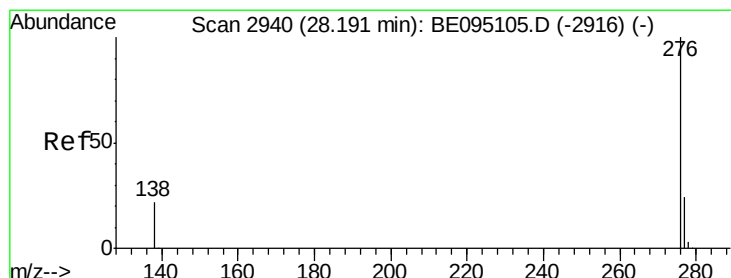
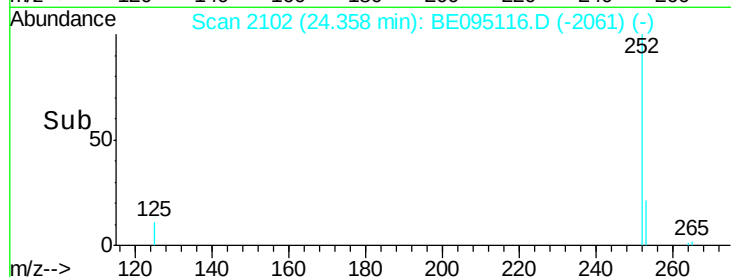
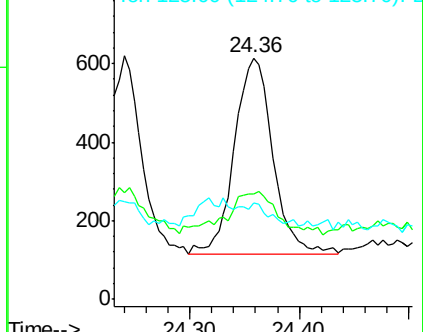
252 100

253 43.8 16.0 24.0#

125 39.7 12.0 18.0#



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



#39

Benzo(g,h,i)perylene

Concen: 0.021 ng

RT: 28.18 min Scan# 2938

Delta R.T. -0.02 min

Lab File: BE095116.D

Acq: 25 Jan 2018 15:30

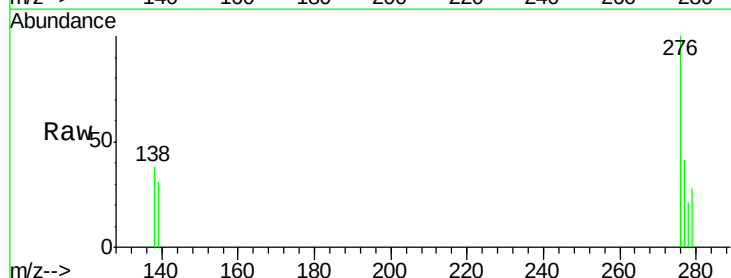
Tgt Ion: 276 Resp: 964

Ion Ratio Lower Upper

276 100

277 40.7 16.0 24.0#

138 38.4 20.0 30.0#



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

