

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097489.D
 Acq On : 18 Mar 2016 6:17
 Operator : UM/SJ
 Sample : MDL-02-W
 Misc : 0.16PPM
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88982BL

Quant Time: Mar 18 08:21:52 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 04:36:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	40696	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	178566	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	108050	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	267344	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	316461	5.00	ng	0.00
28) Perylene-d12	23.80	264	291220	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	72509	7.75	ng	0.00
5) Phenol-d6	6.99	99	90852	7.44	ng	0.00
7) Nitrobenzene-d5	8.98	82	32366	3.38	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	20308	5.19	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	116550	4.29	ng	0.00
24) Terphenyl-d14	19.79	244	198969	5.23	ng	-0.01

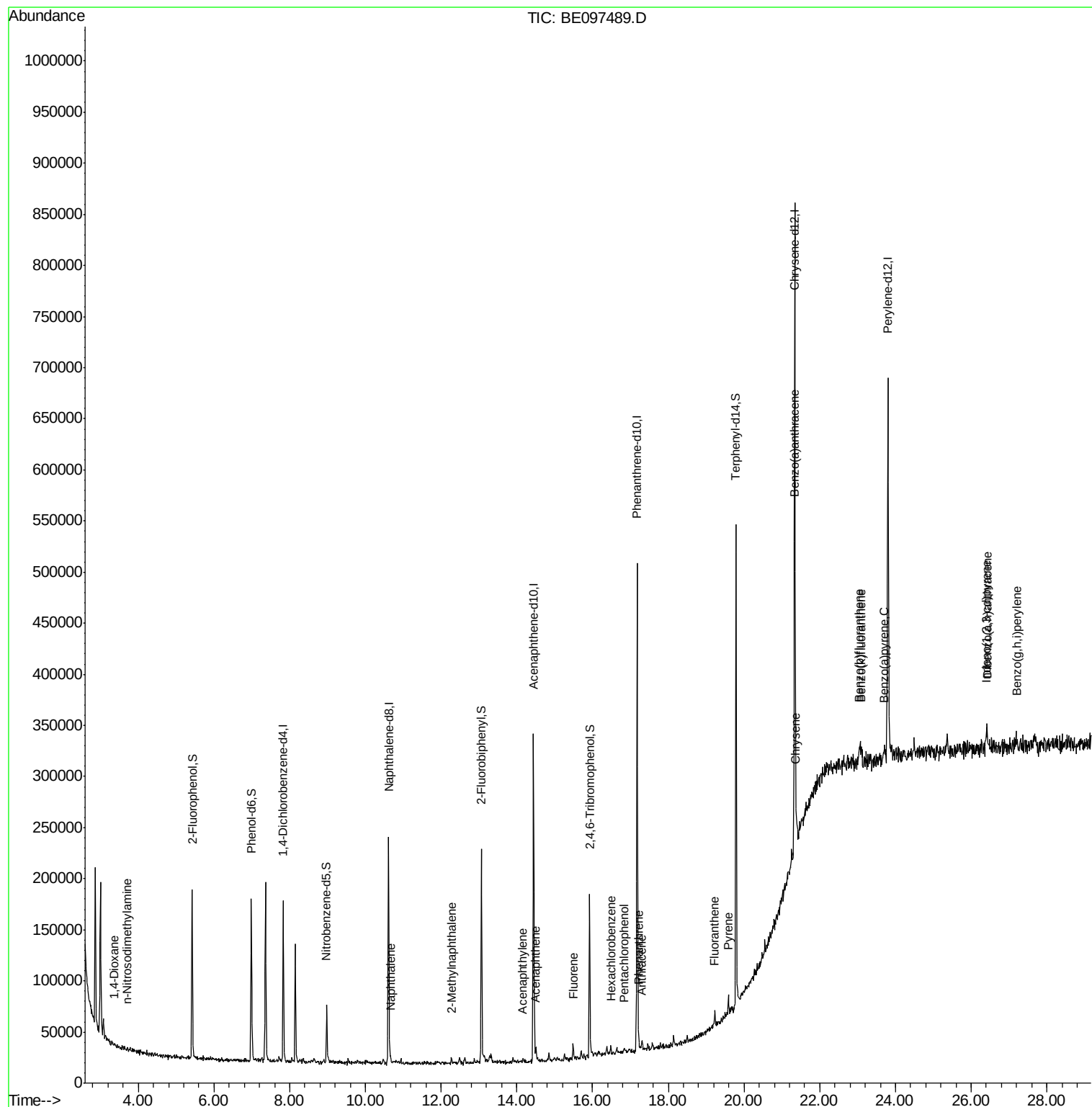
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	1125	0.22	ng	# 83
3) n-Nitrosodimethylamine	3.69	42	404	0.06	ng	# 83
8) Naphthalene	10.66	128	5533	0.13	ng	# 93
9) 2-Methylnaphthalene	12.27	142	2836	0.10	ng	# 81
13) Acenaphthylene	14.16	152	3733	0.20	ng	94
14) Acenaphthene	14.51	154	3478	0.10	ng	97
15) Fluorene	15.49	166	3695	0.09	ng	# 81
17) Hexachlorobenzene	16.49	284	1250	0.11	ng	# 67
18) Pentachlorophenol	16.84	266	575	0.39	ng	# 36
19) Phenanthrene	17.21	178	9235	0.12	ng	97
20) Anthracene	17.31	178	6751	0.10	ng	95
21) Fluoranthene	19.23	202	8922	0.10	ng	# 88
23) Pyrene	19.58	202	8865	0.11	ng	94
25) Benzo(a)anthracene	21.32	228	10271	0.12	ng	94
26) Chrysene	21.37	228	11833	0.03	ng	# 86
27) Indeno(1,2,3-cd)pyrene	26.41	276	7871	0.09	ng	# 66
29) Benzo(b)fluoranthene	23.04	252	9277	0.10	ng	# 84
30) Benzo(k)fluoranthene	23.10	252	9253	0.10	ng	# 93
31) Benzo(a)pyrene	23.69	252	7140	0.09	ng	# 81
32) Dibenzo(a,h)anthracene	26.42	278	6347	0.08	ng	99
33) Benzo(g,h,i)perylene	27.20	276	7453	0.09	ng	# 87

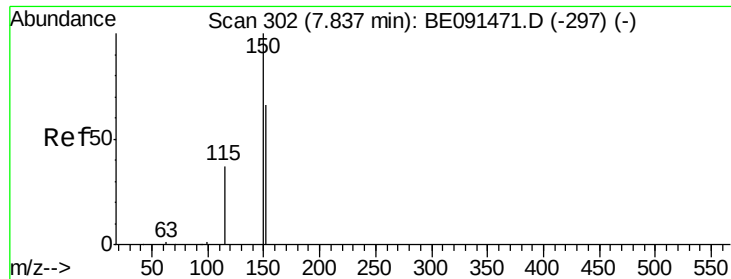
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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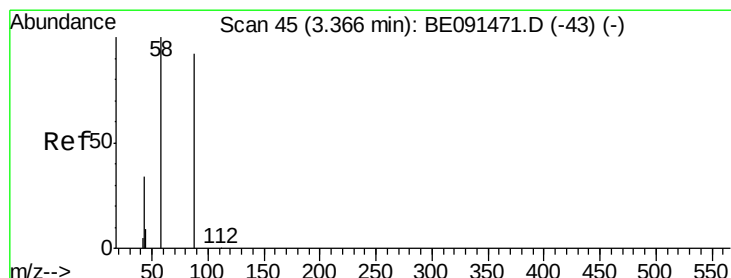
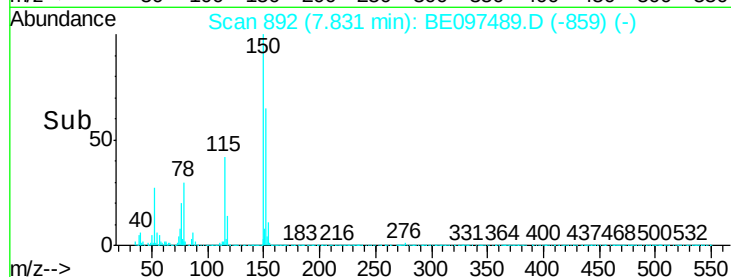
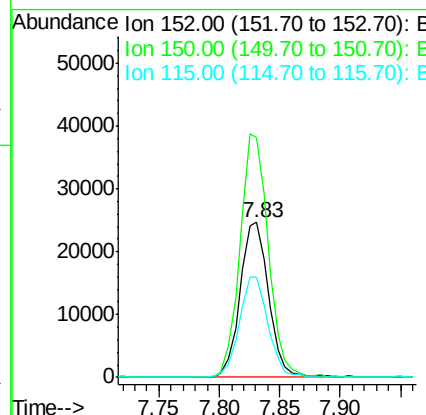
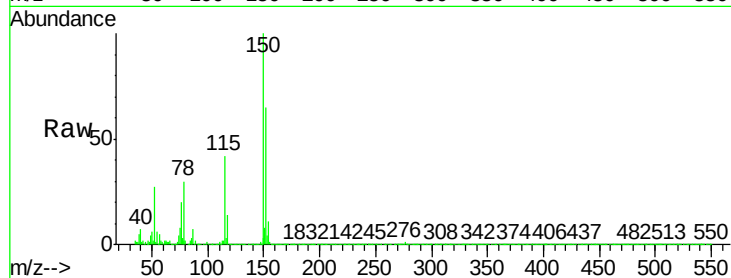


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.83 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

Instrument :
BNA_E
ClientSampleId :
PB88982BL

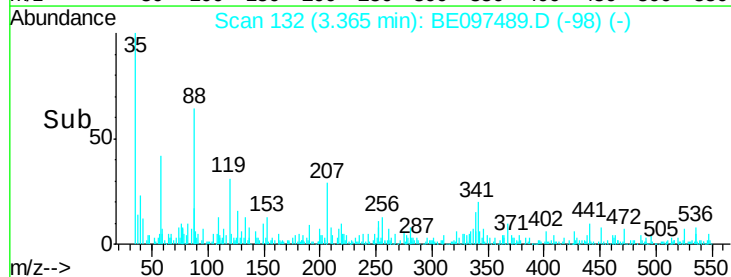
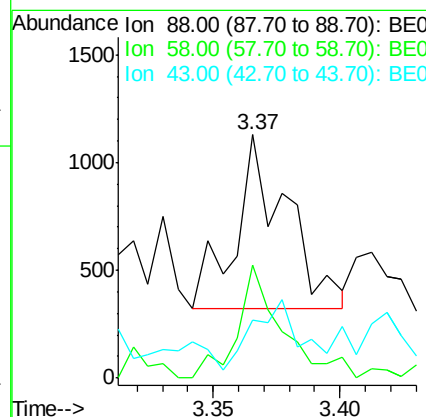
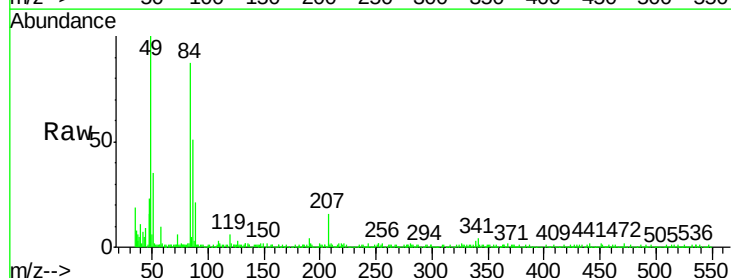
Tgt Ion:152 Resp: 40696
Ion Ratio Lower Upper
152 100
150 154.5 122.2 183.2
115 65.1 45.9 68.9

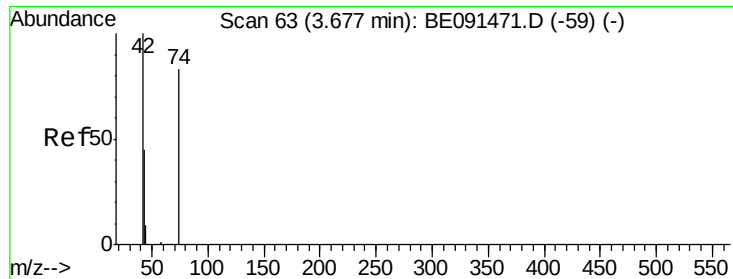


#2

1,4-Dioxane
Concen: 0.22 ng
RT: 3.37 min Scan# 132
Delta R.T. -0.00 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

Tgt Ion: 88 Resp: 1125
Ion Ratio Lower Upper
88 100
58 58.9 61.0 91.6#
43 37.1 25.4 38.2



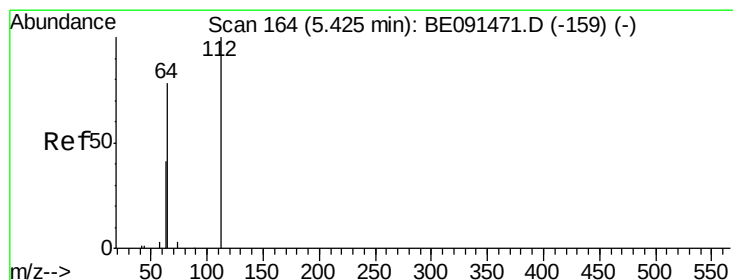
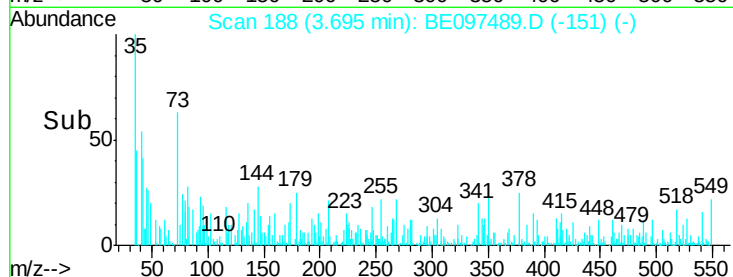
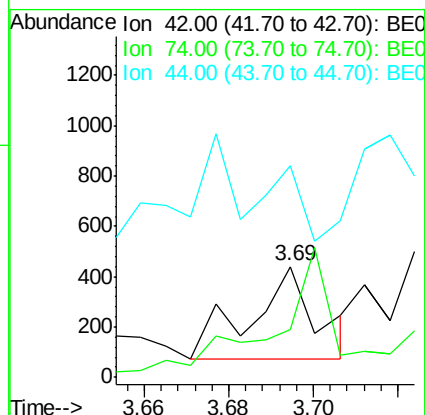
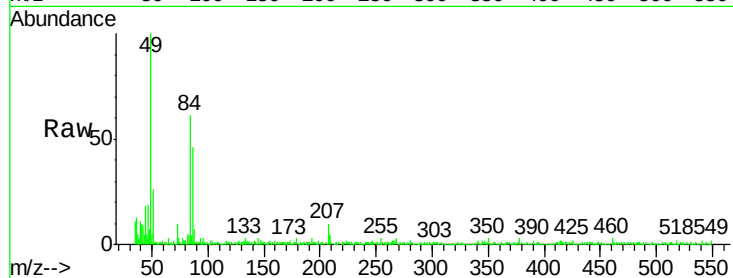


#3

n-Nitrosodimethylamine
 Concen: 0.06 ng
 RT: 3.69 min Scan# 188
 Delta R.T. 0.02 min
 Lab File: BE097489.D
 Acq: 18 Mar 2016 6:17

Instrument :
 BNA_E
 ClientSampleId :
 PB88982BL

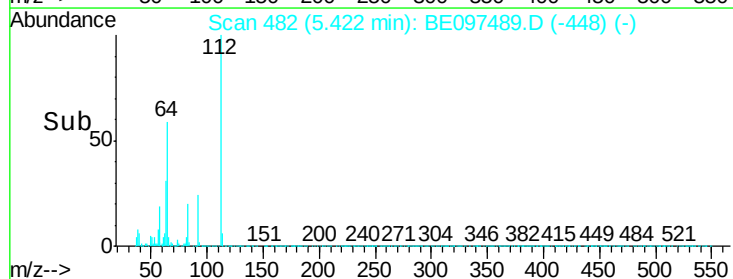
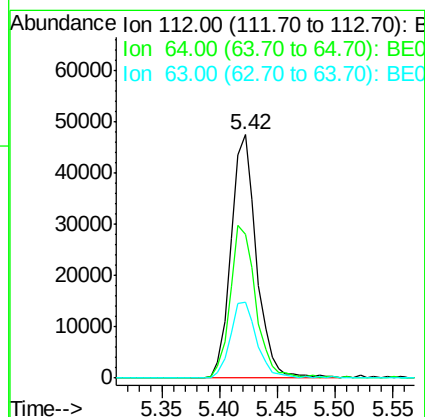
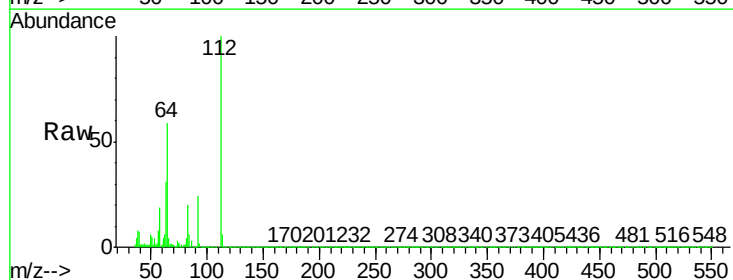
Tgt Ion: 42 Resp: 404
 Ion Ratio Lower Upper
 42 100
 74 122.3 84.3 126.5
 44 0.0 6.7 10.1#

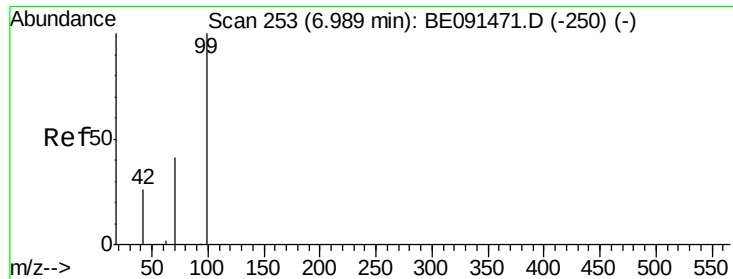


#4

2-Fluorophenol
 Concen: 7.75 ng
 RT: 5.42 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: BE097489.D
 Acq: 18 Mar 2016 6:17

Tgt Ion: 112 Resp: 72509
 Ion Ratio Lower Upper
 112 100
 64 62.6 53.3 79.9
 63 33.0 29.8 44.8





#5

Phenol-d6

Concen: 7.44 ng

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

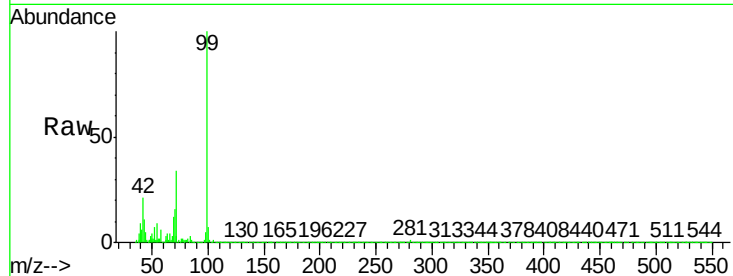
Tgt Ion: 99 Resp: 90852

Ion Ratio Lower Upper

99 100

42 21.9 20.6 30.8

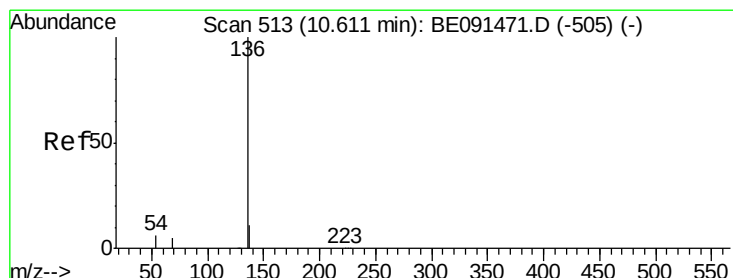
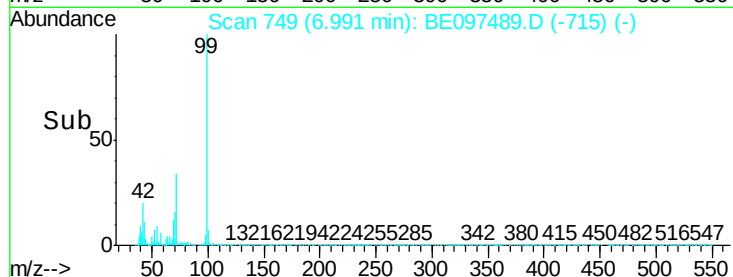
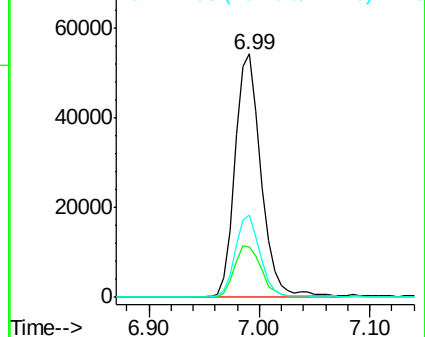
71 32.2 29.0 43.4



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

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Tgt Ion: 136 Resp: 178566

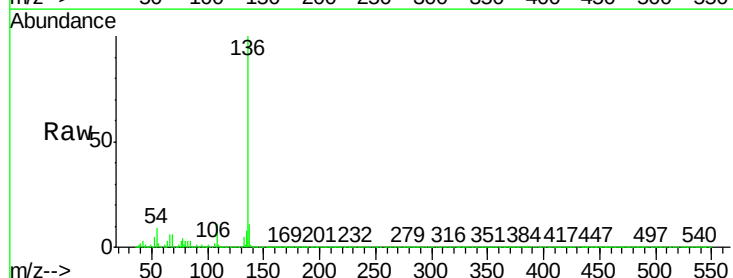
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 9.1 5.2 7.8#

68 6.0 4.1 6.1

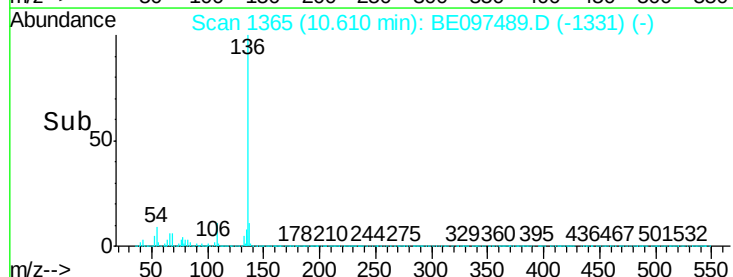
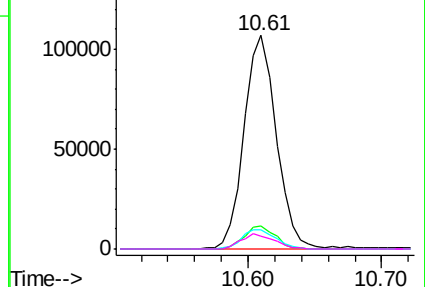


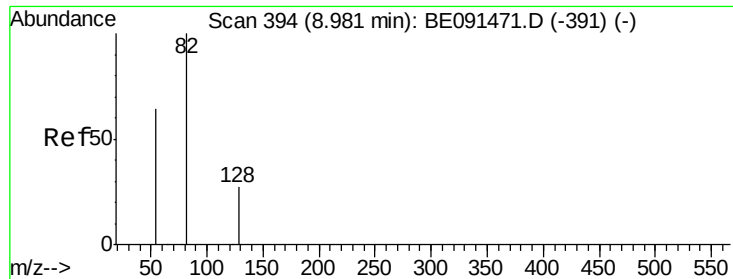
Abundance Ion 136.00 (135.70 to 136.70): E

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





#7

Nitrobenzene-d5

Concen: 3.38 ng

RT: 8.98 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

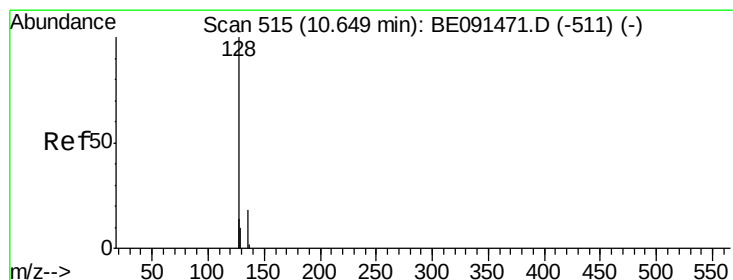
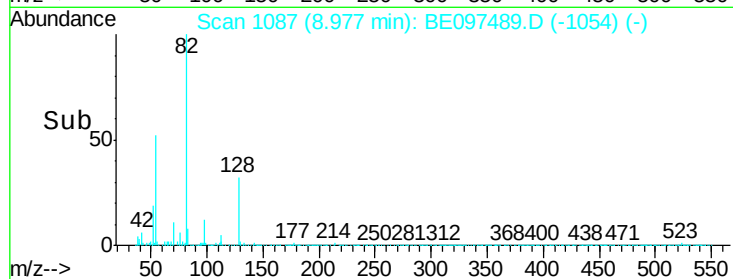
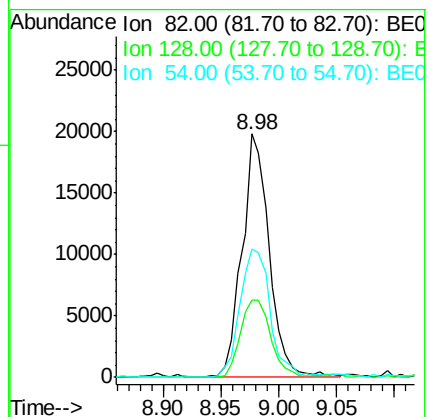
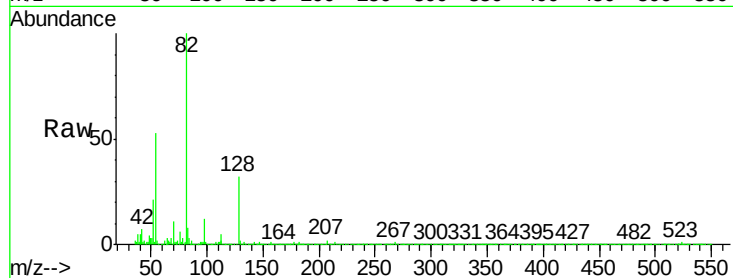
Tgt Ion: 82 Resp: 32366

Ion Ratio Lower Upper

82 100

128 31.8 23.5 35.3

54 52.7 52.4 78.6



#8

Naphthalene

Concen: 0.13 ng

RT: 10.66 min Scan# 1373

Delta R.T. 0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

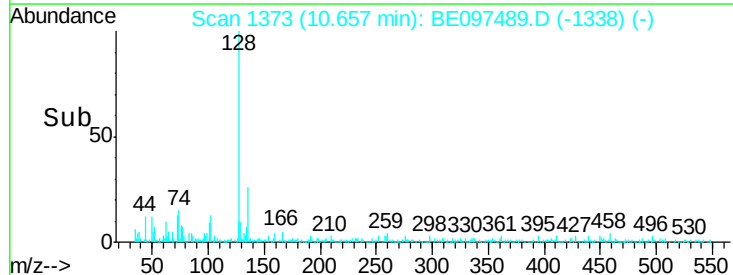
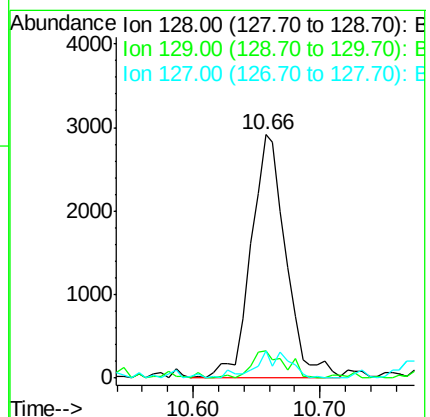
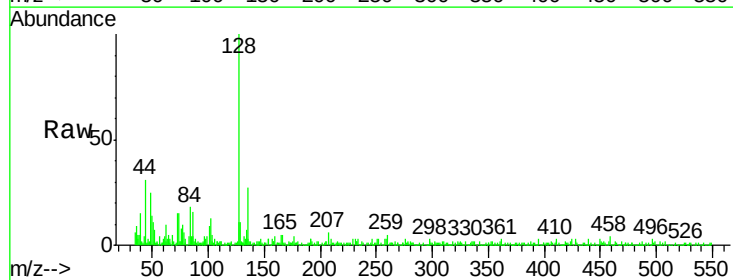
Tgt Ion: 128 Resp: 5533

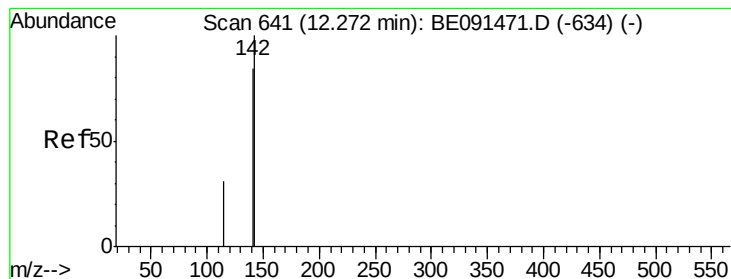
Ion Ratio Lower Upper

128 100

129 11.5 8.2 12.2

127 11.2 11.8 17.8#





#9

2-Methylnaphthalene

Concen: 0.10 ng

RT: 12.27 min Scan# 1648

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

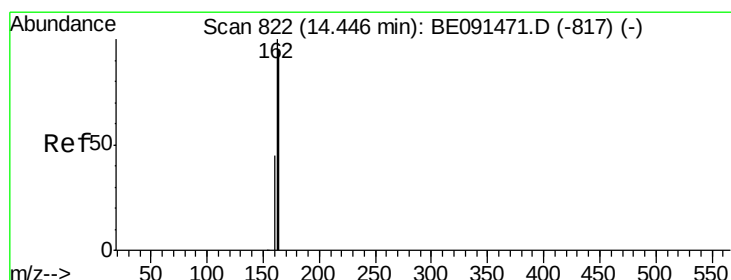
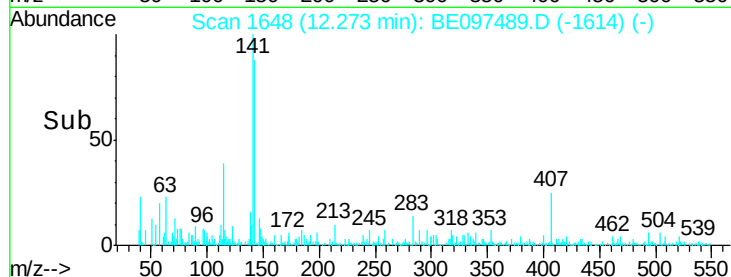
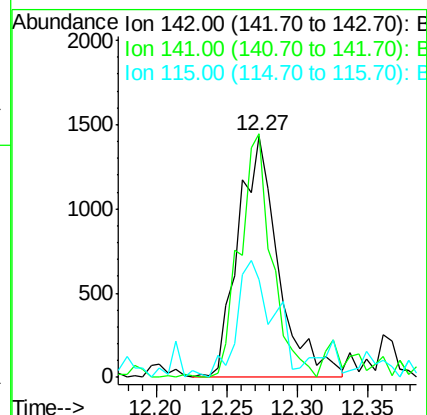
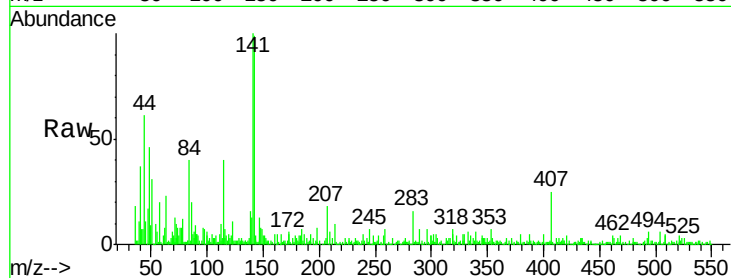
Tgt Ion:142 Resp: 2836

Ion Ratio Lower Upper

142 100

141 101.0 66.9 100.3#

115 40.6 25.1 37.7#



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.44 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

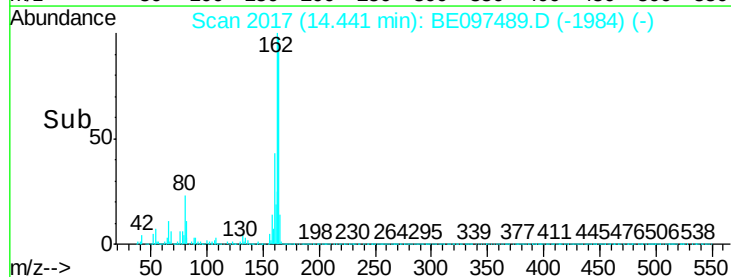
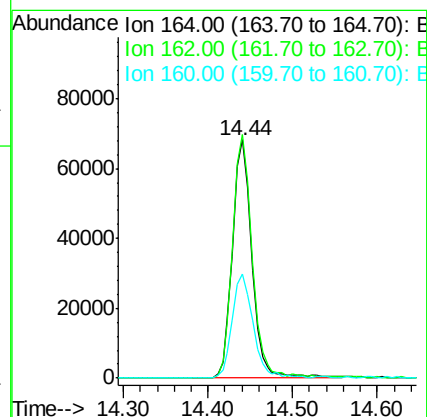
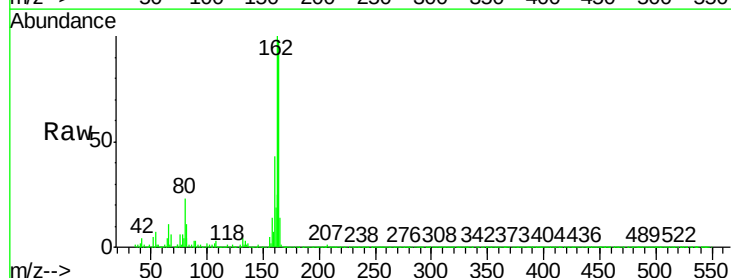
Tgt Ion:164 Resp: 108050

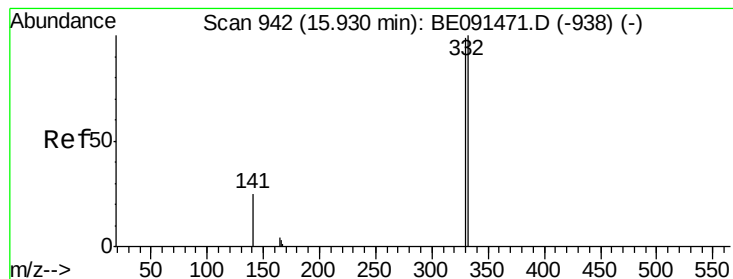
Ion Ratio Lower Upper

164 100

162 102.2 84.4 126.6

160 43.7 37.7 56.5

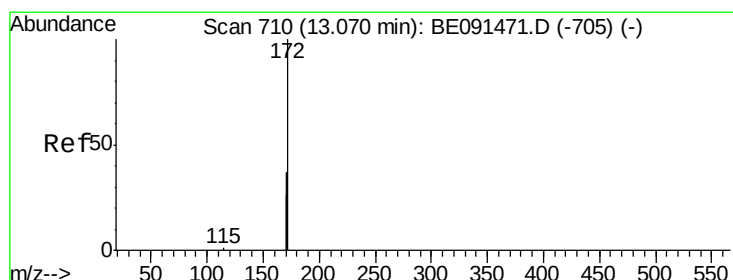
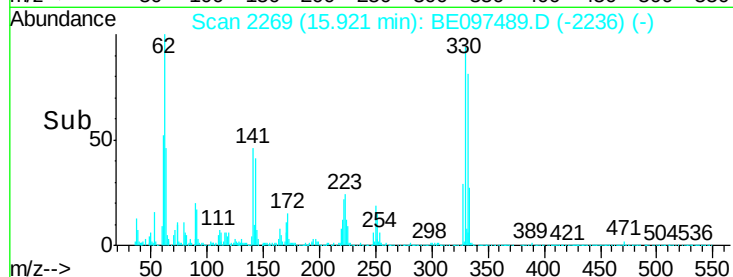
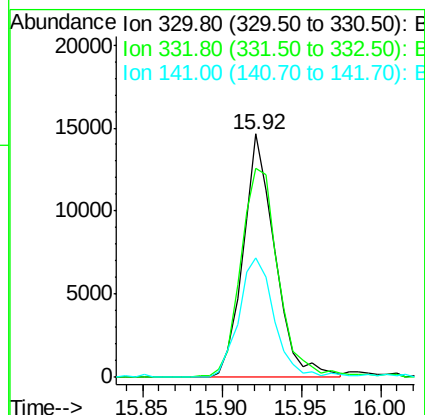
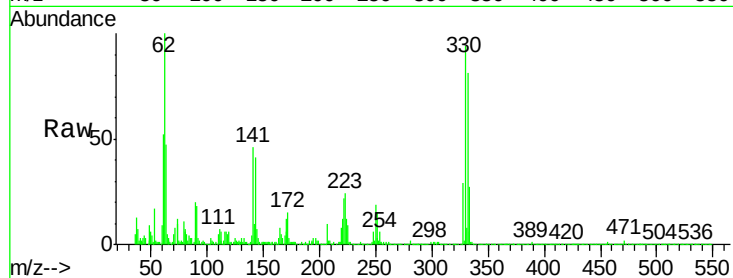




#11
 2,4,6-Tribromophenol
 Concen: 5.19 ng
 RT: 15.92 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BE097489.D
 Acq: 18 Mar 2016 6:17

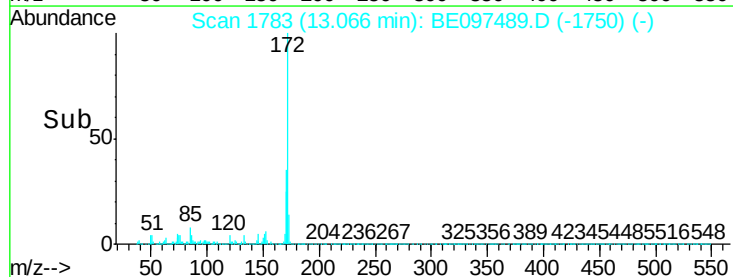
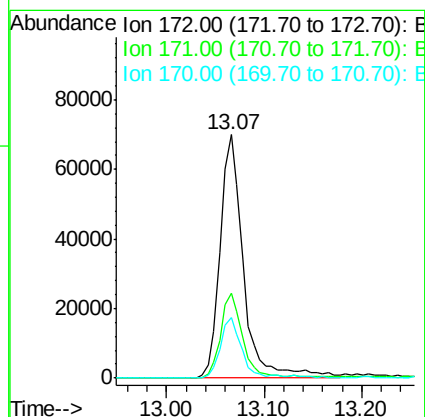
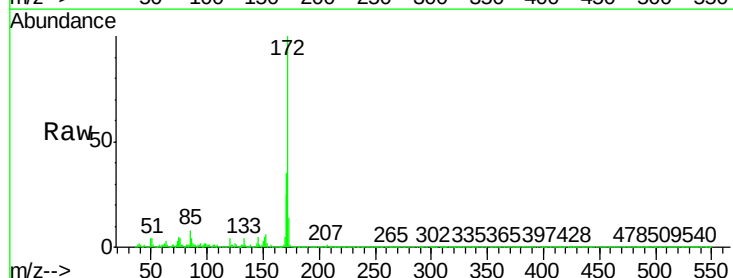
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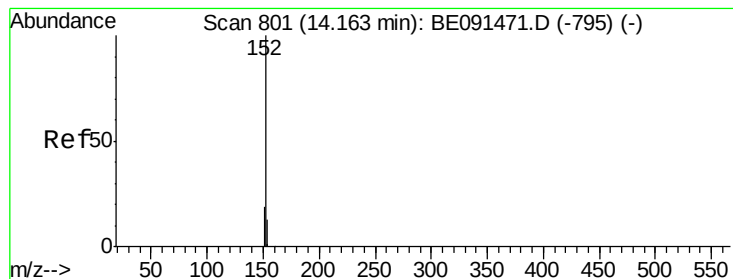
Tgt Ion:330 Resp: 20308
 Ion Ratio Lower Upper
 330 100
 332 102.5 79.2 118.8
 141 55.1 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.29 ng
 RT: 13.07 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: BE097489.D
 Acq: 18 Mar 2016 6:17

Tgt Ion:172 Resp: 116550
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.8 44.8
 170 25.1 21.4 32.2





#13

Acenaphthylene

Concen: 0.20 ng

RT: 14.16 min Scan# 1969

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

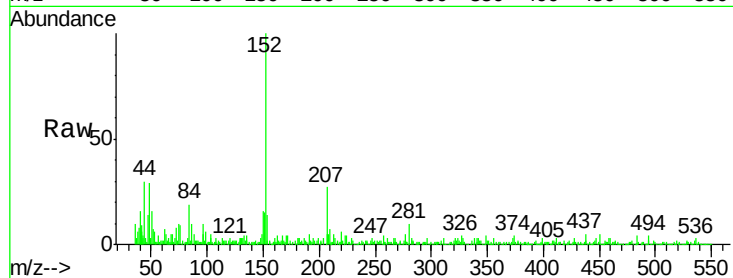
Tgt Ion:152 Resp: 3733

Ion Ratio Lower Upper

152 100

151 24.0 16.3 24.5

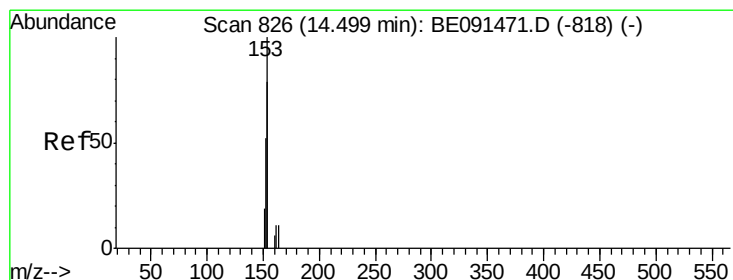
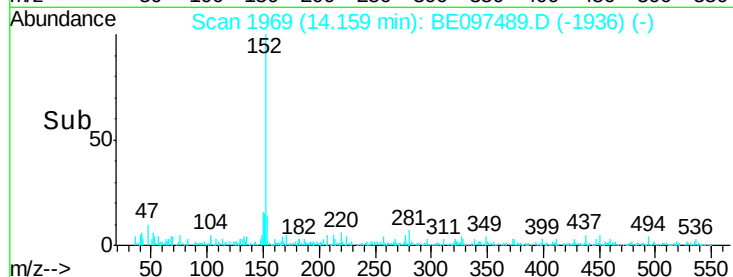
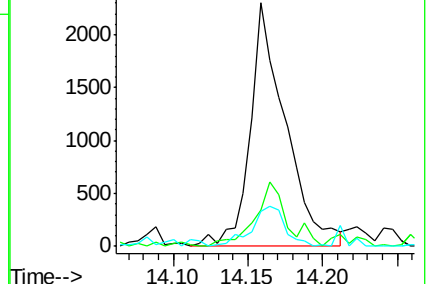
153 14.9 11.1 16.7



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



#14

Acenaphthene

Concen: 0.10 ng

RT: 14.51 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

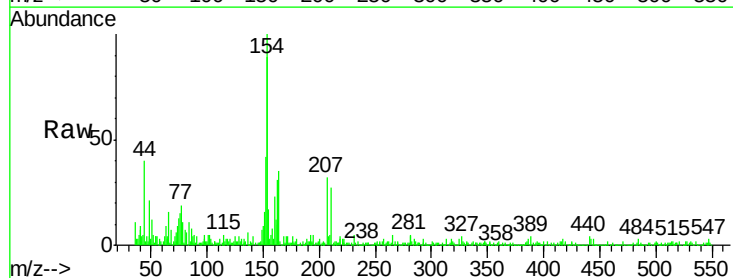
Tgt Ion:154 Resp: 3478

Ion Ratio Lower Upper

154 100

153 108.9 87.3 130.9

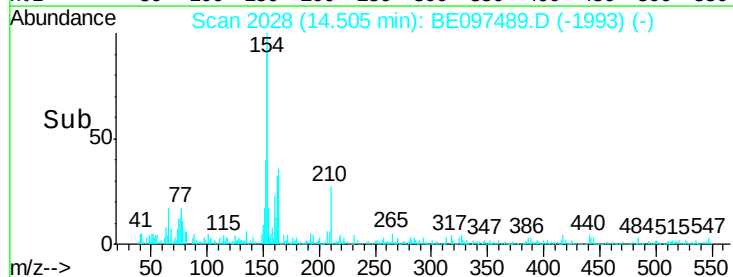
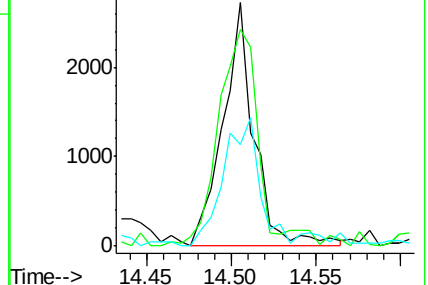
152 60.4 42.9 64.3

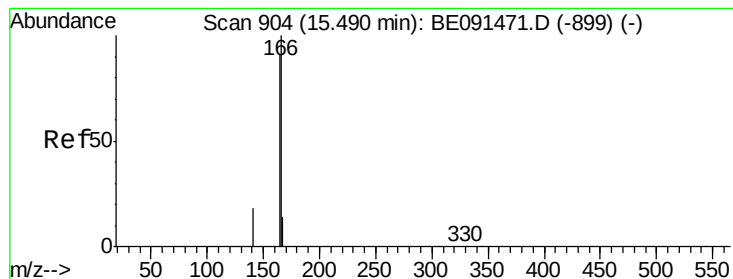


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.09 ng

RT: 15.49 min Scan# 2195

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

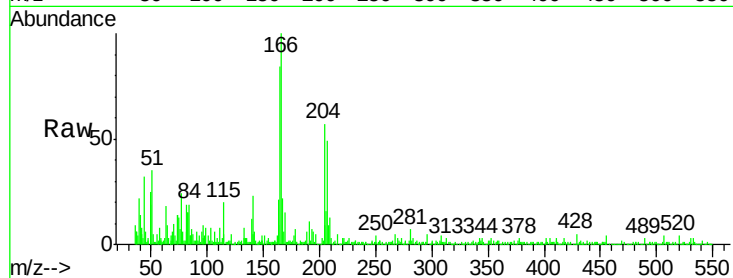
Tgt Ion:166 Resp: 3695

Ion Ratio Lower Upper

166 100

165 118.7 79.2 118.8

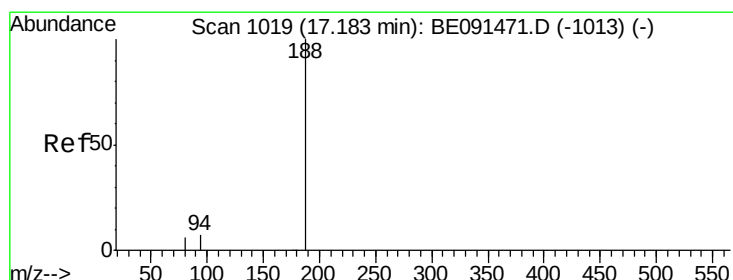
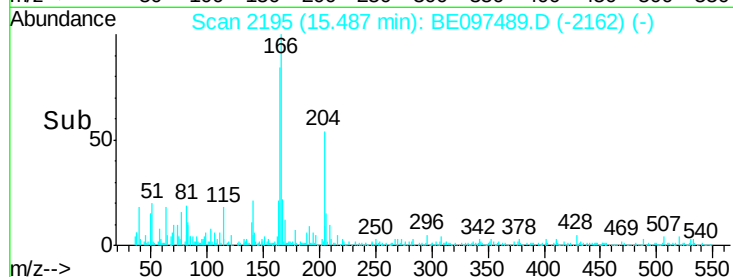
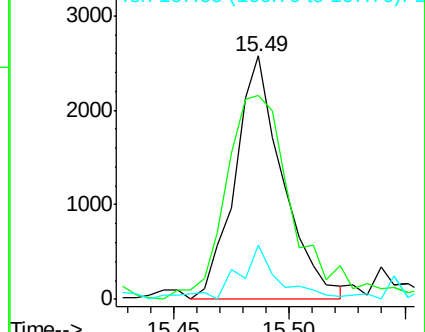
167 19.2 10.8 16.2#



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



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.17 min Scan# 2482

Delta R.T. -0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

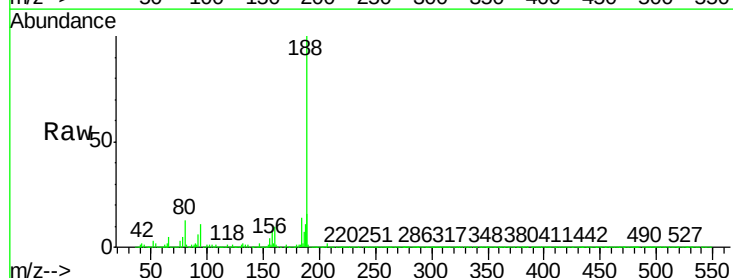
Tgt Ion:188 Resp: 267344

Ion Ratio Lower Upper

188 100

94 11.5 5.4 8.2#

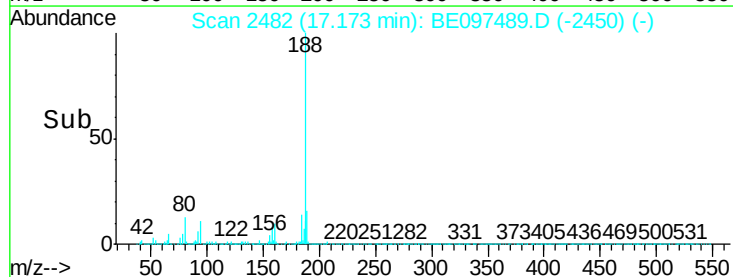
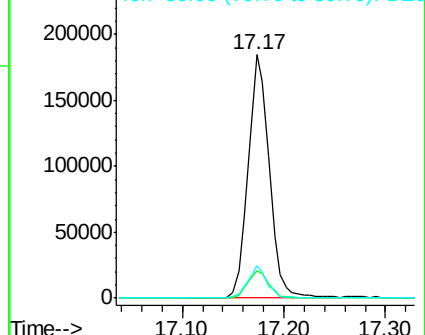
80 13.1 5.0 7.4#

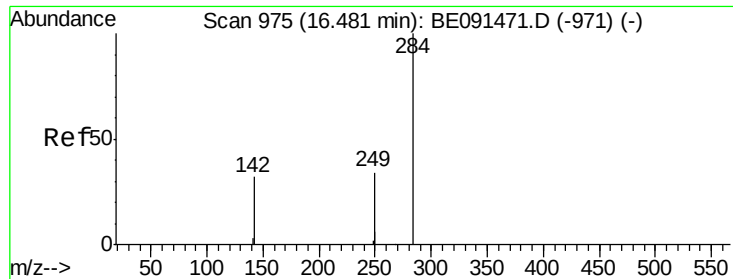


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

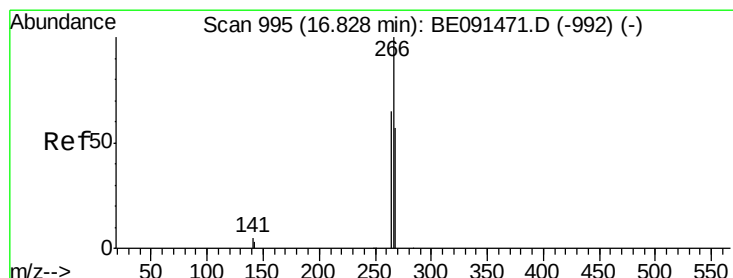
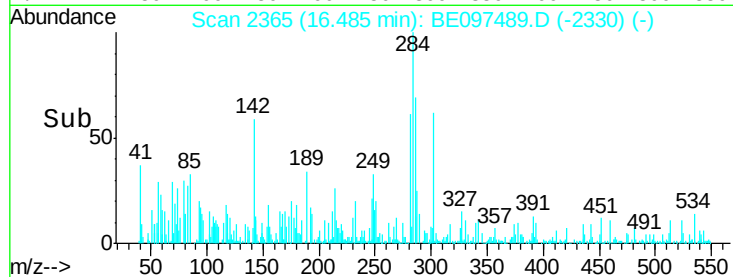
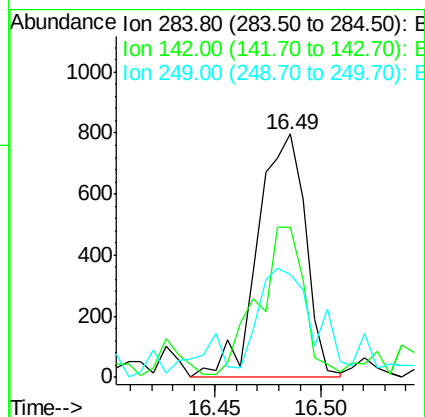
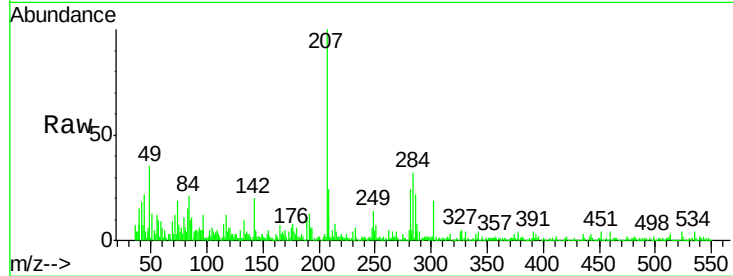




#17
Hexachlorobenzene
Concen: 0.11 ng
RT: 16.49 min Scan# 2365
Delta R.T. 0.00 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

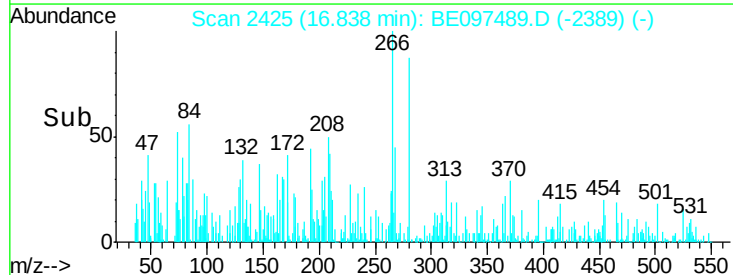
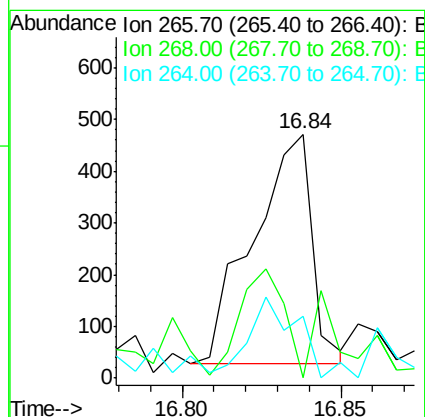
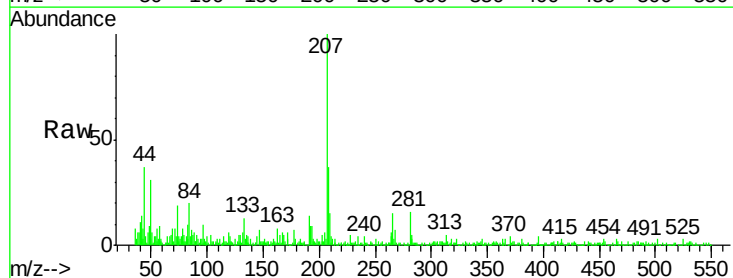
Instrument :
BNA_E
ClientSampled :
PB88982BL

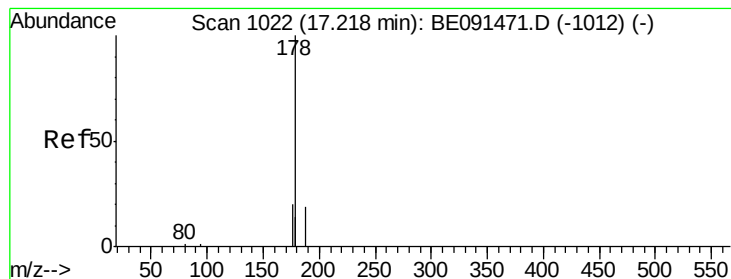
Tgt Ion:284 Resp: 1250
Ion Ratio Lower Upper
284 100
142 57.8 31.0 46.4#
249 52.1 25.8 38.8#



#18
Pentachlorophenol
Concen: 0.39 ng
RT: 16.84 min Scan# 2425
Delta R.T. 0.01 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

Tgt Ion:266 Resp: 575
Ion Ratio Lower Upper
266 100
268 0.0 48.2 72.2#
264 25.5 52.1 78.1#





#19

Phenanthrene

Concen: 0.12 ng

RT: 17.21 min Scan# 2489

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

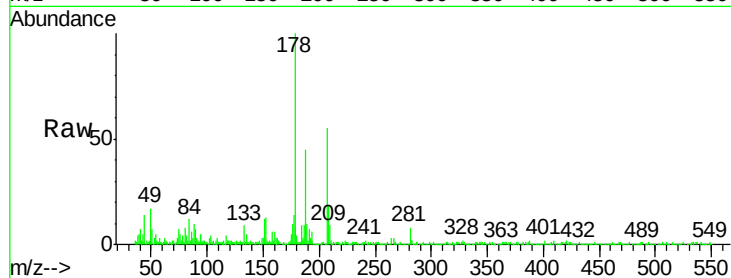
Tgt Ion:178 Resp: 9235

Ion Ratio Lower Upper

178 100

176 18.3 15.5 23.3

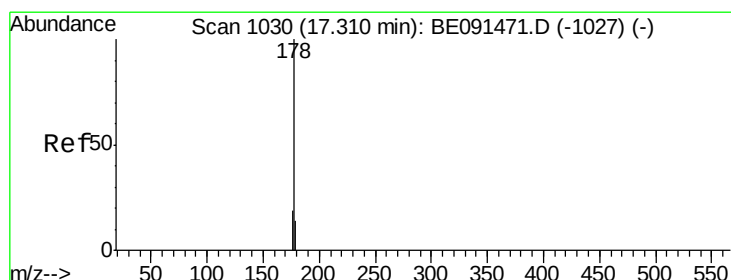
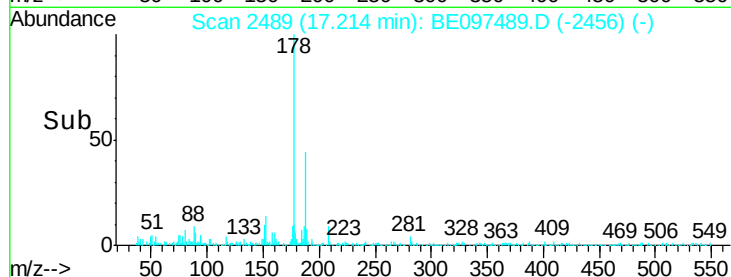
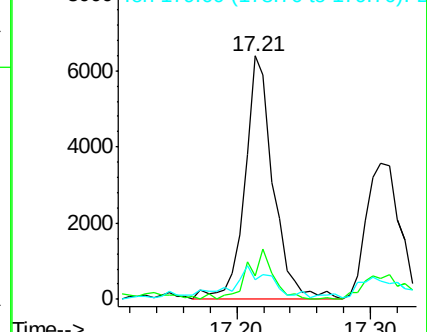
179 18.0 13.1 19.7



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



#20

Anthracene

Concen: 0.10 ng

RT: 17.31 min Scan# 2505

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

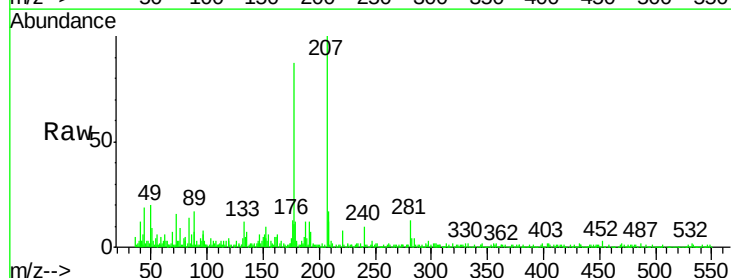
Tgt Ion:178 Resp: 6751

Ion Ratio Lower Upper

178 100

176 21.3 14.9 22.3

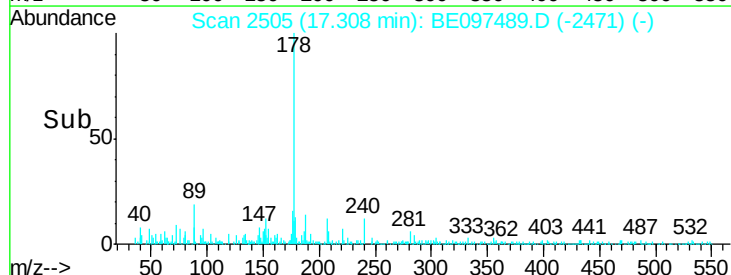
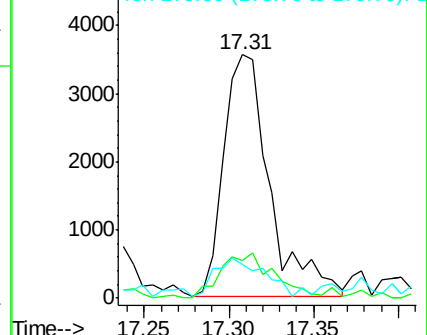
179 17.2 12.2 18.4

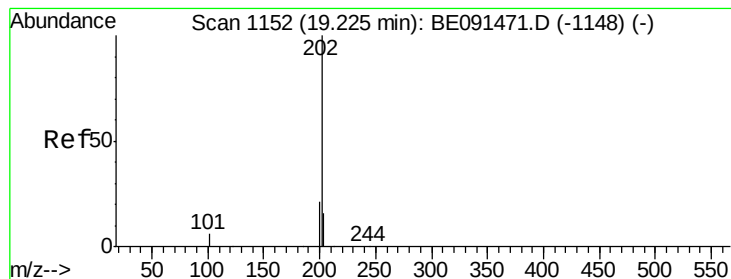


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 0.10 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

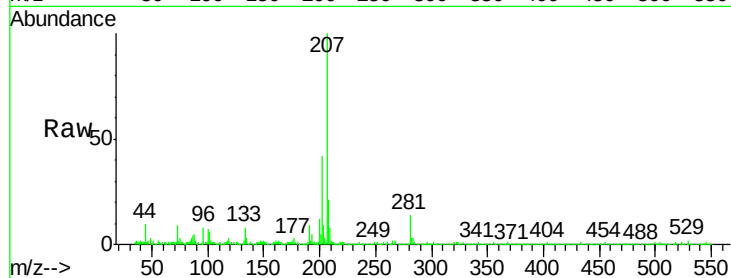
Tgt Ion:202 Resp: 8922

Ion Ratio Lower Upper

202 100

101 15.6 8.3 12.5#

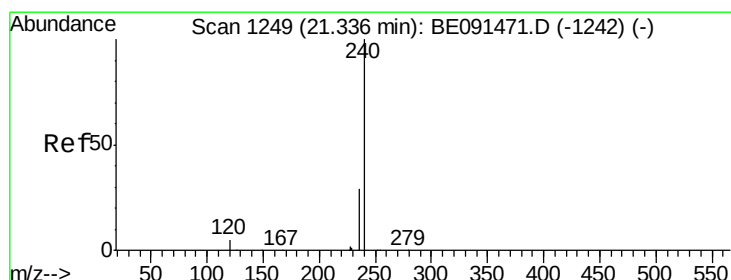
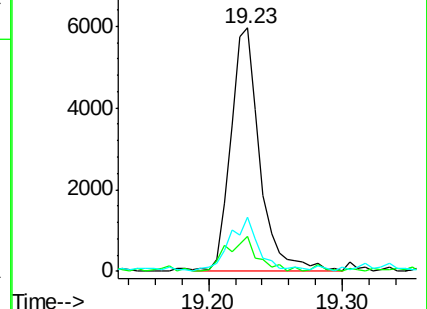
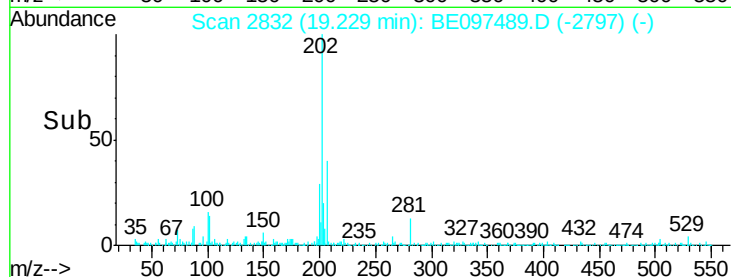
203 21.9 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

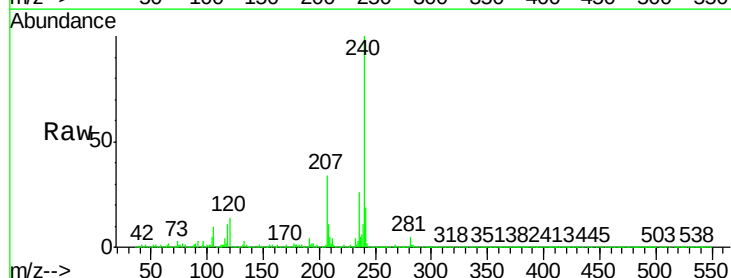
Tgt Ion:240 Resp: 316461

Ion Ratio Lower Upper

240 100

120 13.8 4.0 6.0#

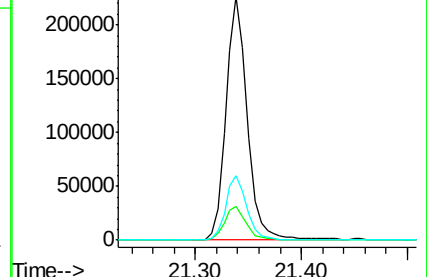
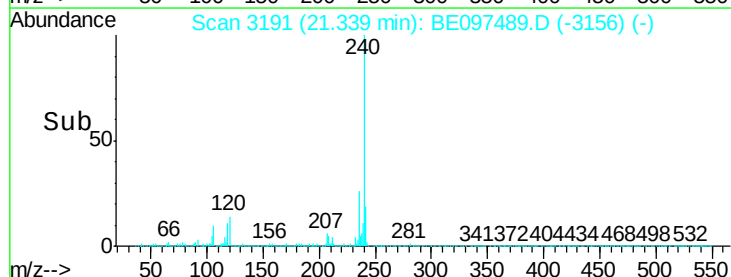
236 26.4 23.0 34.4

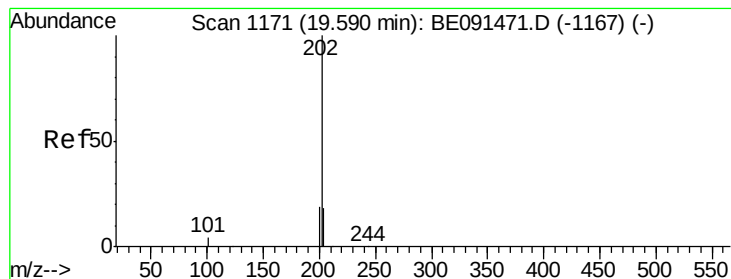


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#23

Pyrene

Concen: 0.11 ng

RT: 19.58 min Scan# 2892

Delta R.T. -0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

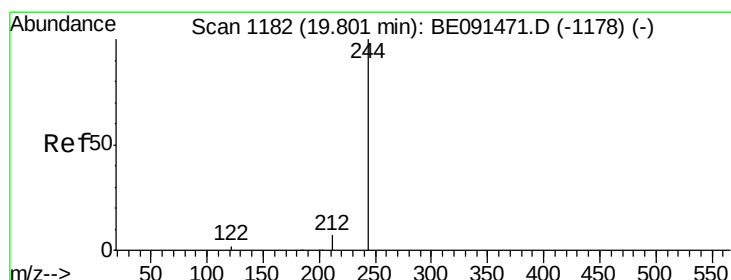
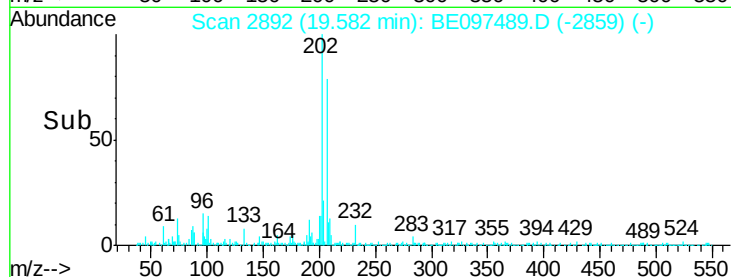
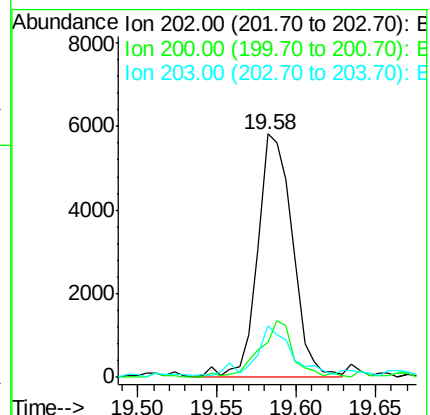
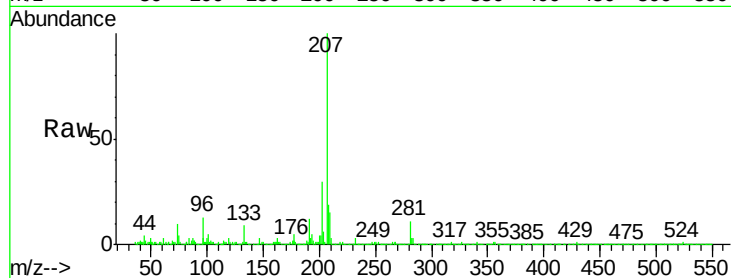
Tgt Ion: 202 Resp: 8865

Ion Ratio Lower Upper

202 100

200 23.0 16.4 24.6

203 21.4 14.6 21.8



#24

Terphenyl-d14

Concen: 5.23 ng

RT: 19.79 min Scan# 2927

Delta R.T. -0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

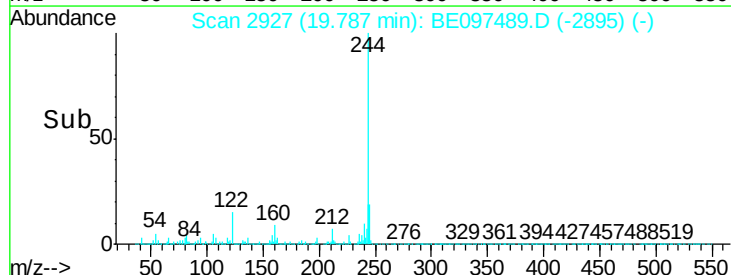
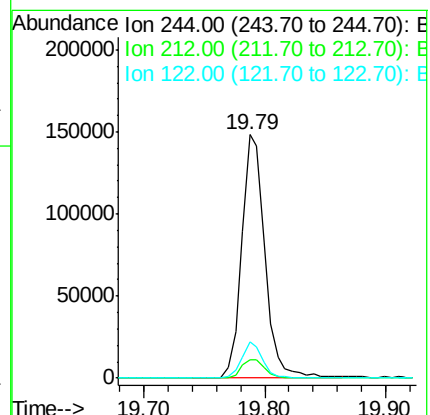
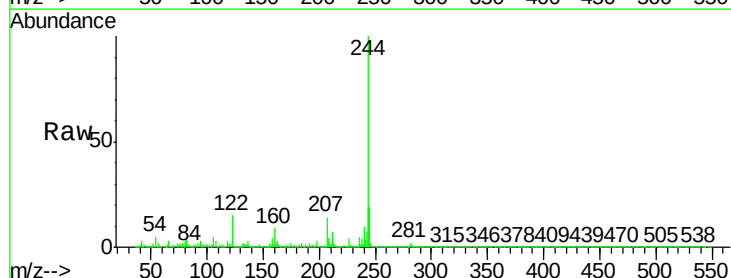
Tgt Ion: 244 Resp: 198969

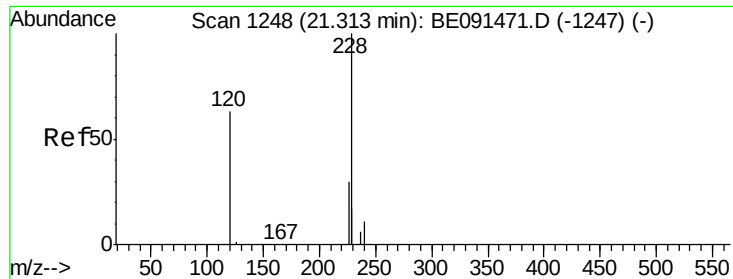
Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

122 14.7 1.8 2.8#

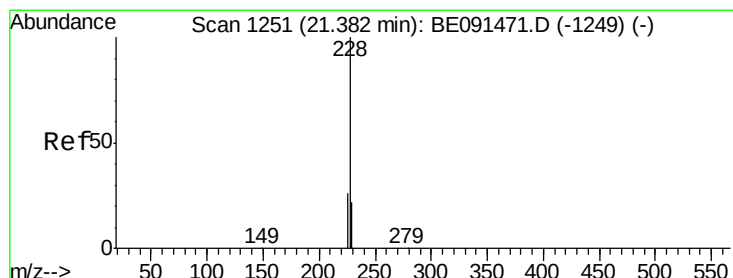
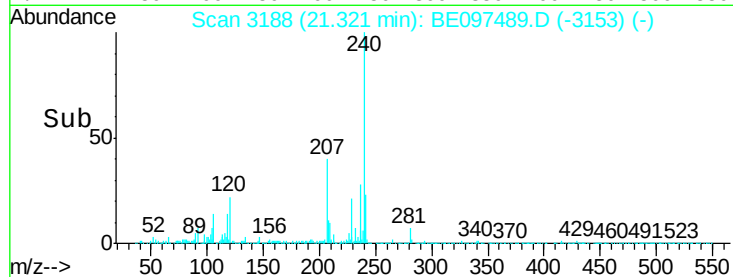
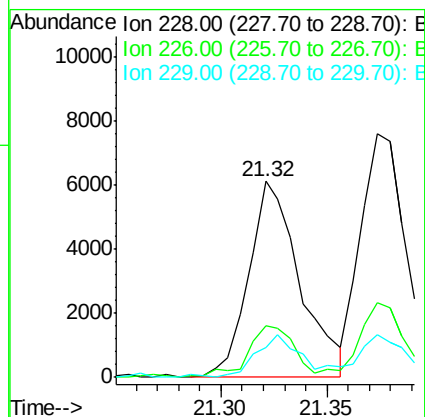
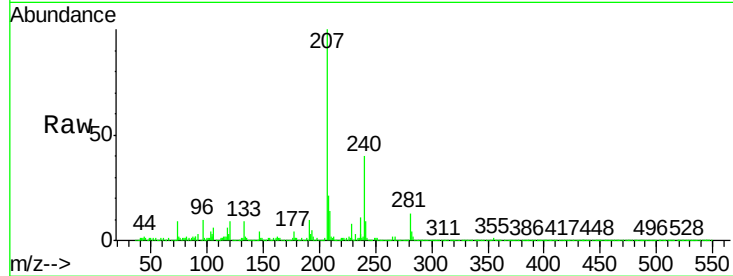




#25
Benzo(a)anthracene
Concen: 0.12 ng
RT: 21.32 min Scan# 3188
Delta R.T. 0.01 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

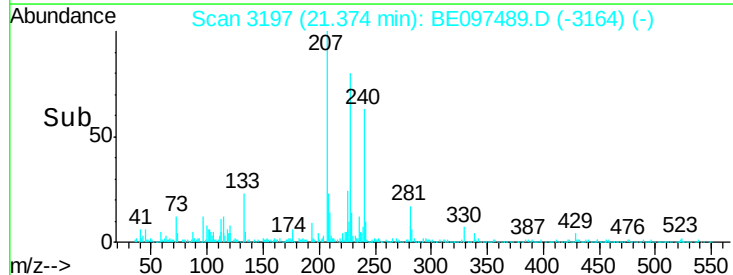
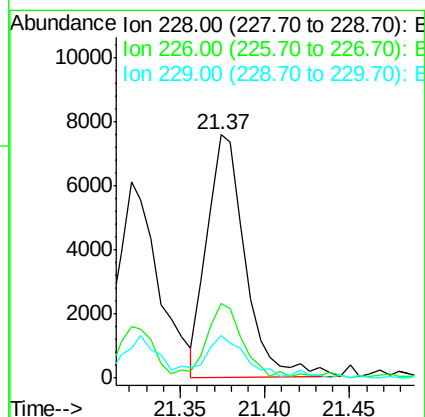
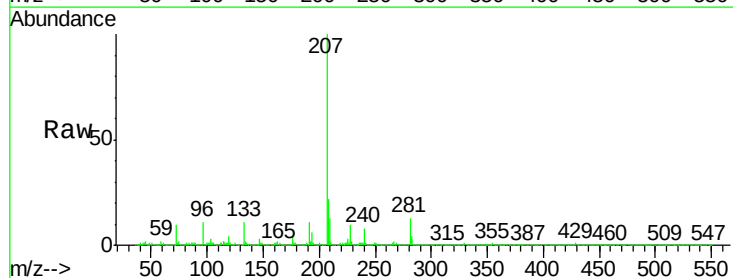
Instrument :
BNA_E
ClientSampleId :
PB88982BL

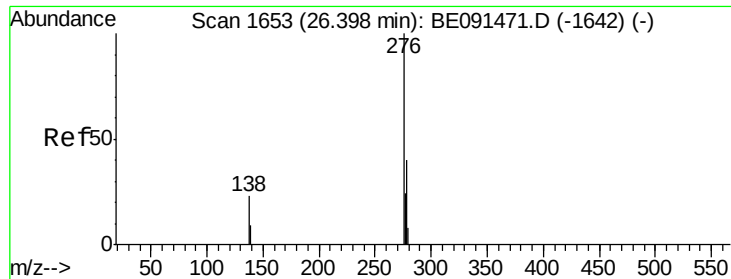
Tgt Ion:228 Resp: 10271
Ion Ratio Lower Upper
228 100
226 26.1 24.0 36.0
229 15.2 13.8 20.6



#26
Chrysene
Concen: 0.03 ng
RT: 21.37 min Scan# 3197
Delta R.T. -0.01 min
Lab File: BE097489.D
Acq: 18 Mar 2016 6:17

Tgt Ion:228 Resp: 11833
Ion Ratio Lower Upper
228 100
226 30.7 18.9 28.3#
229 17.3 19.1 28.7#





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.09 ng

RT: 26.41 min Scan# 4054

Delta R.T. 0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

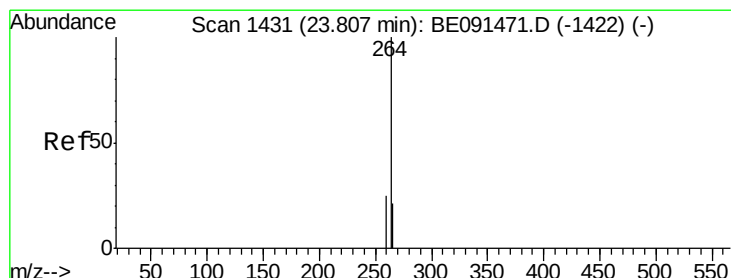
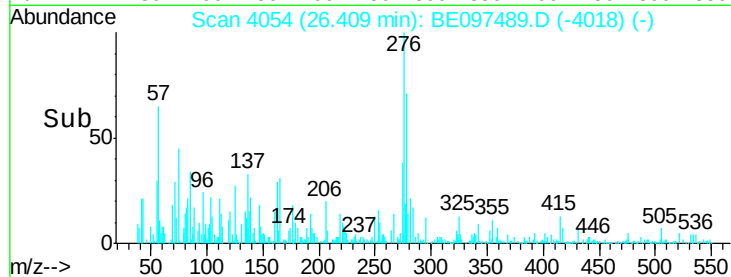
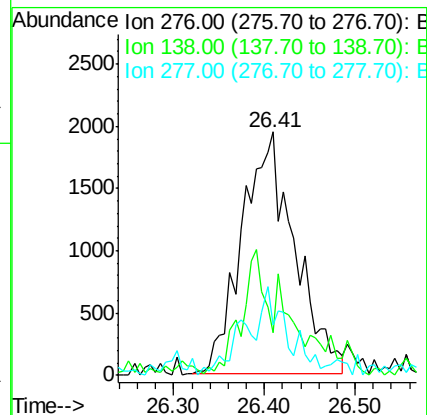
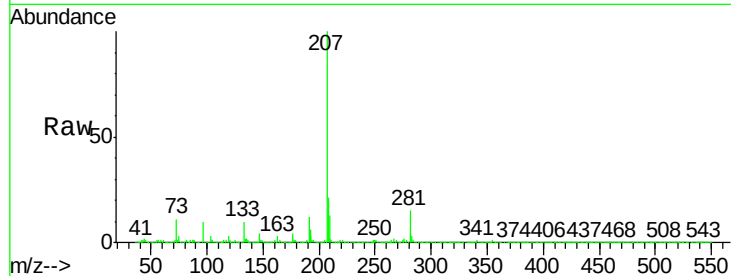
Tgt Ion:276 Resp: 7871

Ion Ratio Lower Upper

276 100

138 6.8 20.2 30.4#

277 8.9 19.8 29.8#



#28

Perylene-d12

Concen: 5.00 ng

RT: 23.80 min Scan# 3610

Delta R.T. -0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

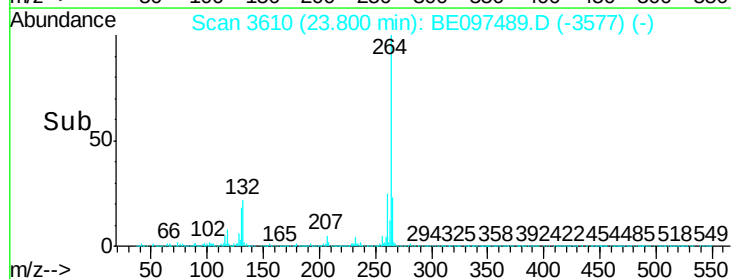
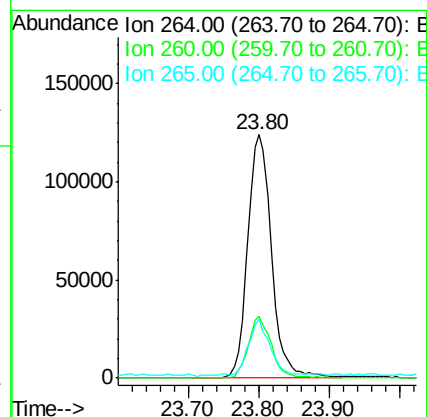
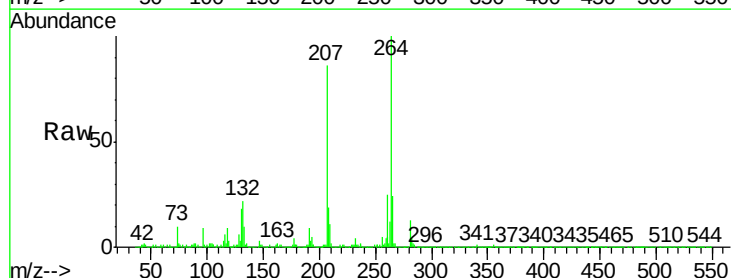
Tgt Ion:264 Resp: 291220

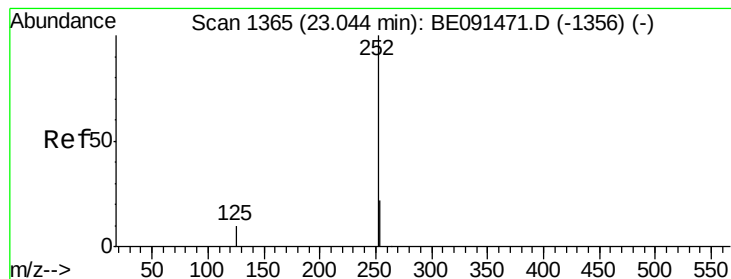
Ion Ratio Lower Upper

264 100

260 25.2 20.1 30.1

265 24.1 18.3 27.5





#29

Benzo(b)fluoranthene

Concen: 0.10 ng

RT: 23.04 min Scan# 3481

Delta R.T. -0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

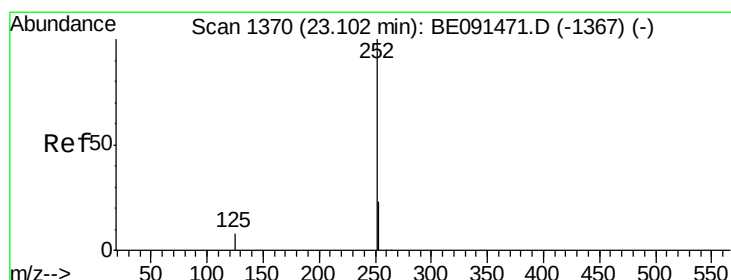
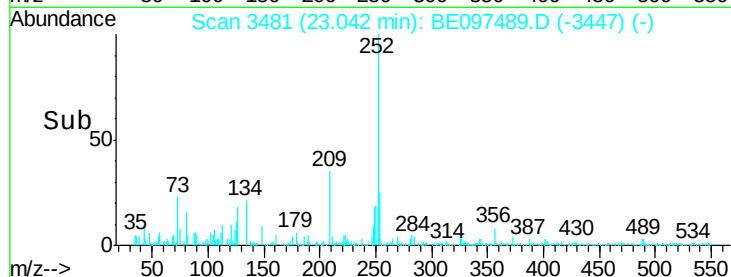
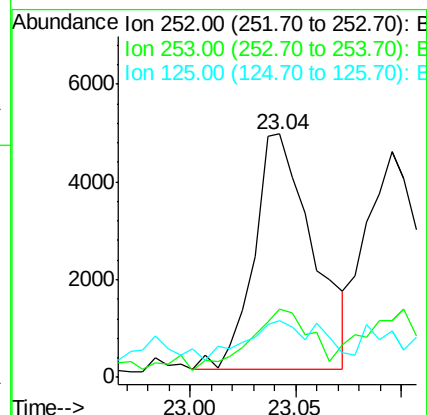
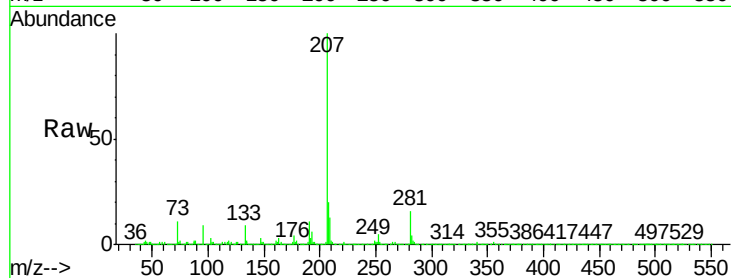
Tgt Ion:252 Resp: 9277

Ion Ratio Lower Upper

252 100

253 28.1 18.7 28.1#

125 23.2 9.8 14.6#



#30

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 23.10 min Scan# 3490

Delta R.T. -0.01 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

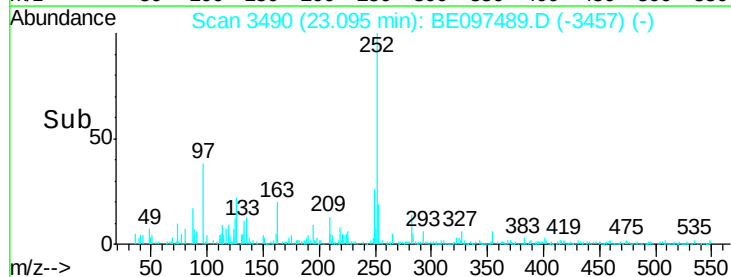
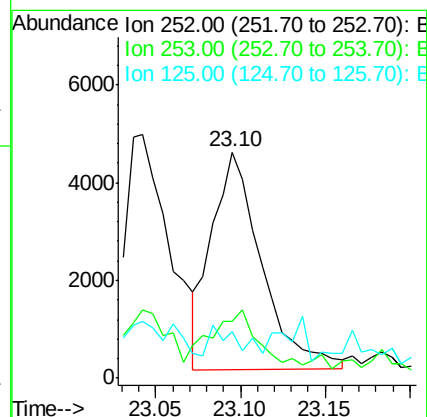
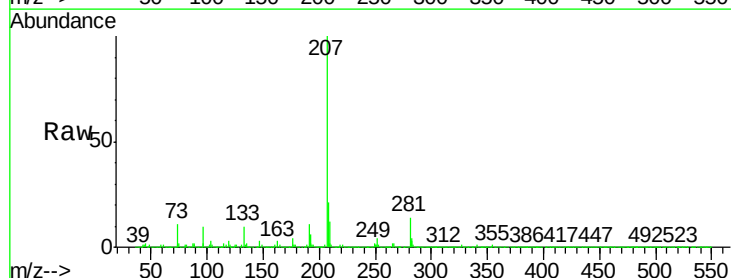
Tgt Ion:252 Resp: 9253

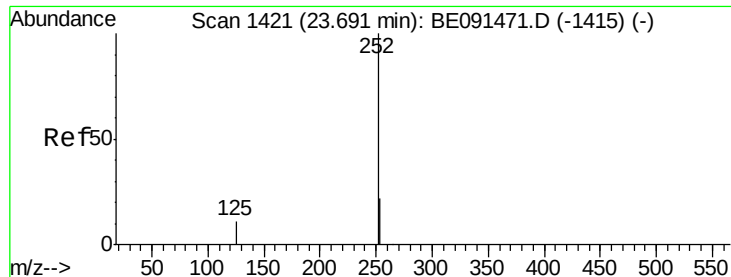
Ion Ratio Lower Upper

252 100

253 25.2 20.2 30.4

125 20.3 9.4 14.2#





#31

Benzo(a)pyrene

Concen: 0.09 ng

RT: 23.69 min Scan# 3592

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

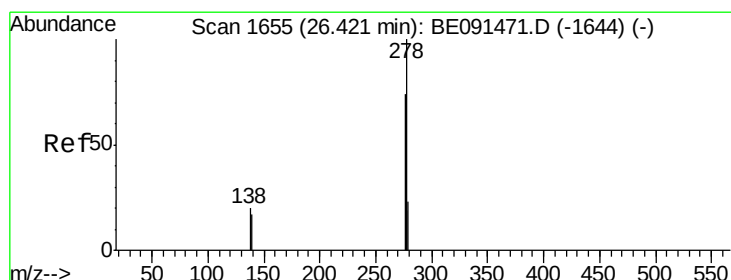
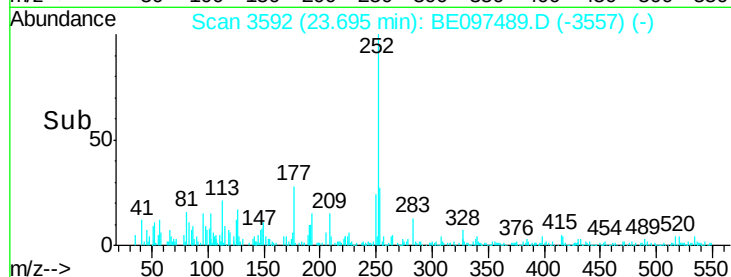
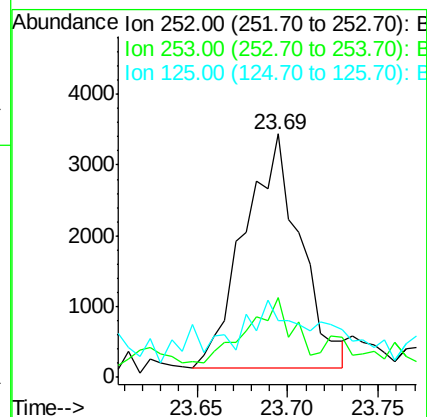
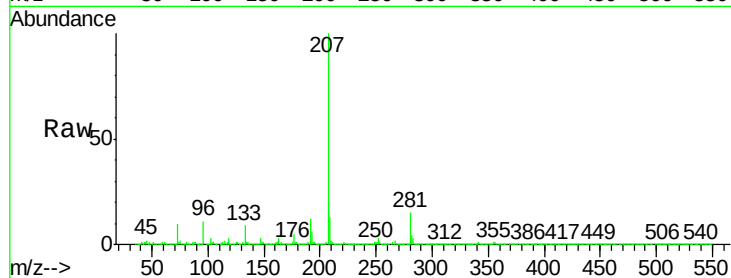
Tgt Ion:252 Resp: 7140

Ion Ratio Lower Upper

252 100

253 32.8 19.4 29.0#

125 23.1 11.4 17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.08 ng

RT: 26.42 min Scan# 4056

Delta R.T. 0.00 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

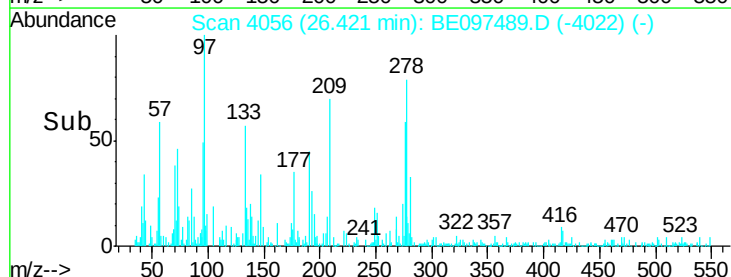
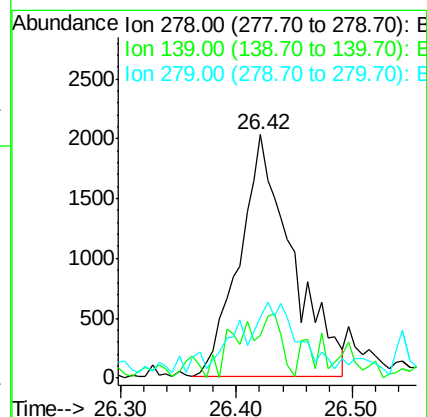
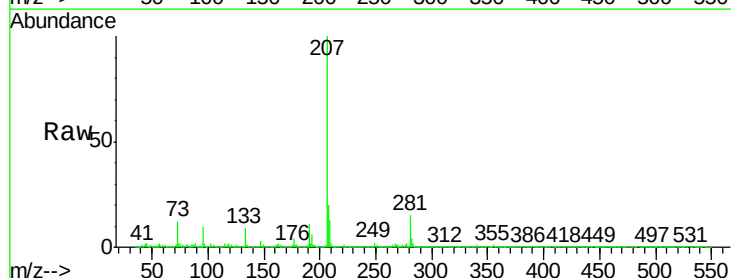
Tgt Ion:278 Resp: 6347

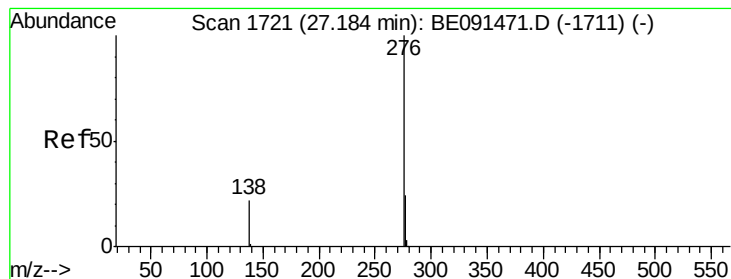
Ion Ratio Lower Upper

278 100

139 17.3 14.2 21.4

279 24.8 19.6 29.4





#33

Benzo(g,h,i)perylene

Concen: 0.09 ng

RT: 27.20 min Scan# 4189

Delta R.T. 0.02 min

Lab File: BE097489.D

Acq: 18 Mar 2016 6:17

Instrument :

BNA_E

ClientSampleId :

PB88982BL

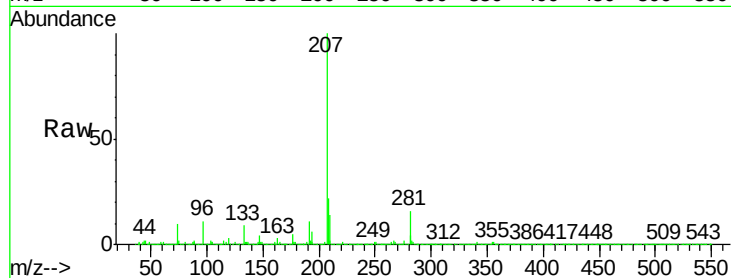
Tgt Ion: 276 Resp: 7453

Ion Ratio Lower Upper

276 100

277 17.9 19.4 29.2#

138 16.5 18.2 27.4#



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

