

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097490.D
 Acq On : 18 Mar 2016 6:52
 Operator : UM/SJ
 Sample : MDL-03-W
 Misc : 0.16PPM
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB88982BS

Quant Time: Mar 18 08:22:13 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	39322	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	176246	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	101349	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	254416	5.00	ng	0.00
22) Chrysene-d12	21.34	240	309333	5.00	ng	0.00
28) Perylene-d12	23.80	264	282238	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.42	112	75595	8.37	ng	0.00
5) Phenol-d6	6.99	99	94845	8.04	ng	0.00
7) Nitrobenzene-d5	8.98	82	34165	3.60	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	19185	5.22	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	114009	4.47	ng	0.00
24) Terphenyl-d14	19.79	244	191425	5.15	ng	-0.01

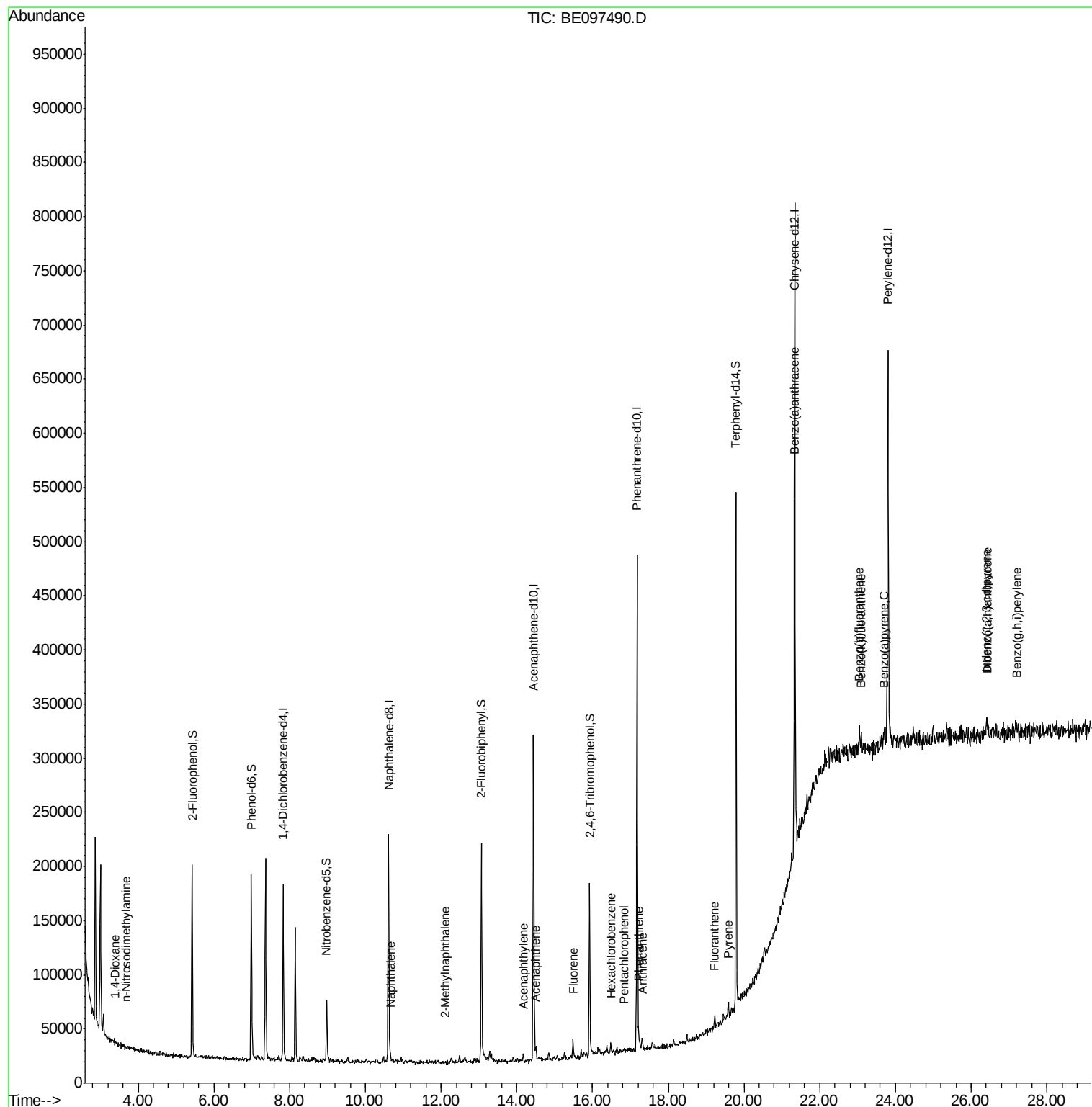
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.38	88	1179	0.24	ng	# 66
3) n-Nitrosodimethylamine	3.68	42	192	0.03	ng	# 1
8) Naphthalene	10.66	128	4995	0.12	ng	# 94
9) 2-Methylnaphthalene	12.10	142	86	0.00	ng	89
13) Acenaphthylene	14.17	152	3342	0.20	ng	96
14) Acenaphthene	14.50	154	3293	0.11	ng	90
15) Fluorene	15.49	166	3880	0.10	ng	90
17) Hexachlorobenzene	16.49	284	1414	0.13	ng	# 70
18) Pentachlorophenol	16.83	266	766	0.42	ng	# 46
19) Phenanthrene	17.21	178	8834	0.12	ng	97
20) Anthracene	17.31	178	6591	0.10	ng	97
21) Fluoranthene	19.22	202	7692	0.09	ng	# 83
23) Pyrene	19.58	202	8339	0.11	ng	# 94
25) Benzo(a)anthracene	21.32	228	8346	0.10	ng	# 87
26) Chrysene	21.32	228	8346	Below Cal		96
27) Indeno(1,2,3-cd)pyrene	26.40	276	7787	0.09	ng	92
29) Benzo(b)fluoranthene	23.05	252	9553	0.11	ng	# 86
30) Benzo(k)fluoranthene	23.10	252	9860	0.11	ng	# 90
31) Benzo(a)pyrene	23.69	252	8004	0.10	ng	# 80
32) Dibenzo(a,h)anthracene	26.42	278	3668	0.05	ng	# 90
33) Benzo(g,h,i)perylene	27.19	276	7279	0.09	ng	# 78

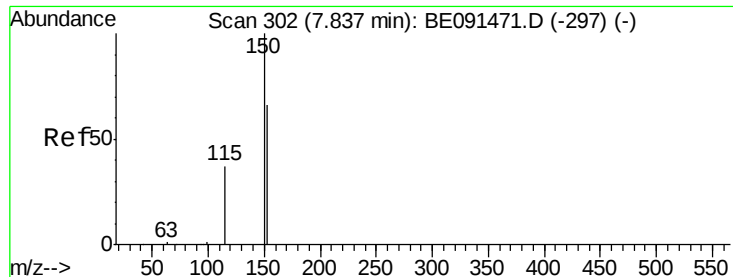
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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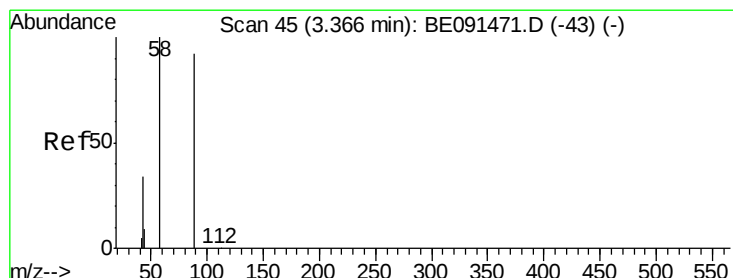
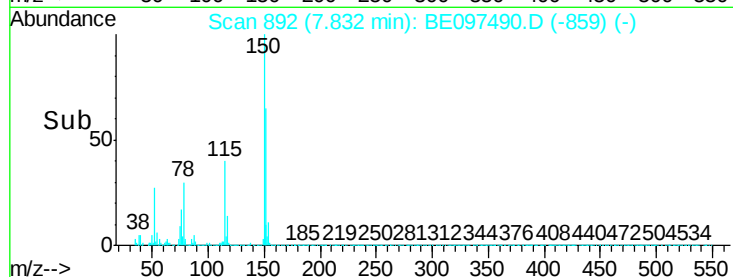
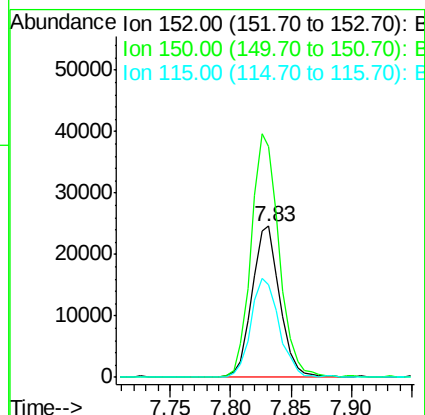
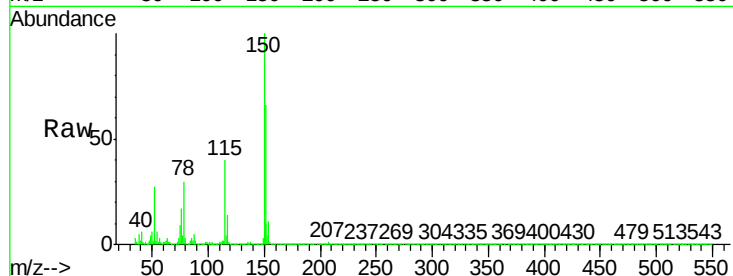


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.83 min Scan# 892
Delta R.T. -0.01 min
Lab File: BE097490.D
Acq: 18 Mar 2016 6:52

Instrument :
BNA_E
ClientSampled :
PB88982BS

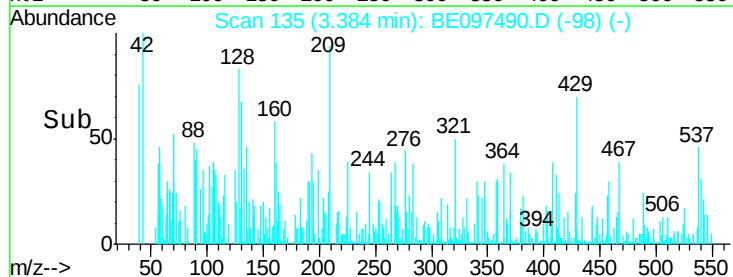
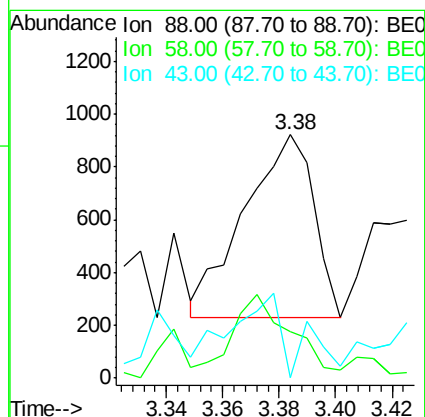
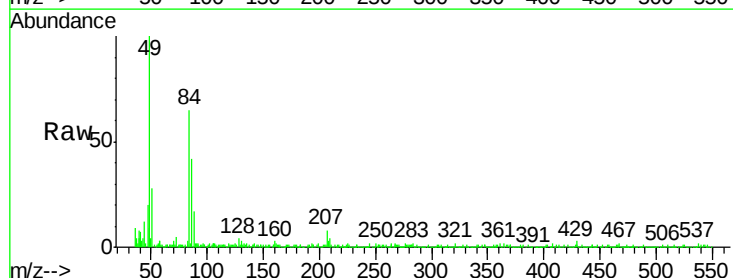
Tgt Ion:152 Resp: 39322
Ion Ratio Lower Upper
152 100
150 152.7 122.2 183.2
115 61.6 45.9 68.9

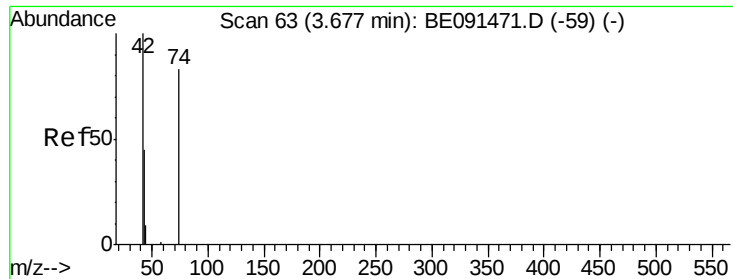


#2

1,4-Dioxane
Concen: 0.24 ng
RT: 3.38 min Scan# 135
Delta R.T. 0.02 min
Lab File: BE097490.D
Acq: 18 Mar 2016 6:52

Tgt Ion: 88 Resp: 1179
Ion Ratio Lower Upper
88 100
58 35.4 61.0 91.6#
43 32.9 25.4 38.2





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 3.68 min Scan# 185

Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

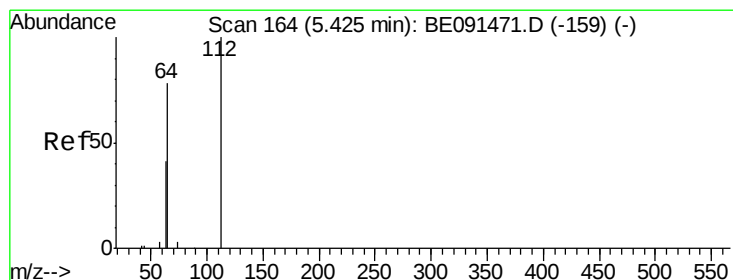
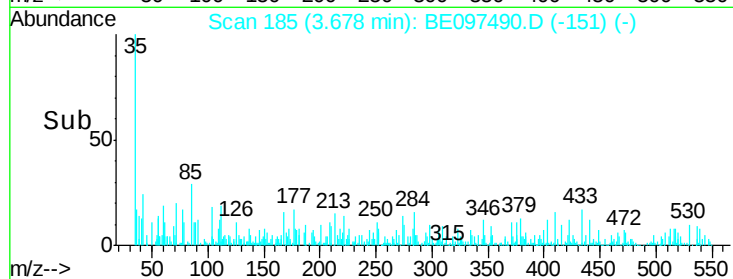
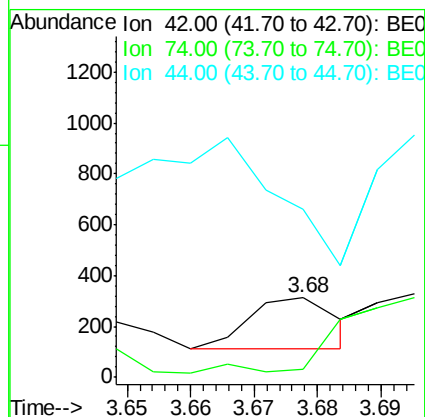
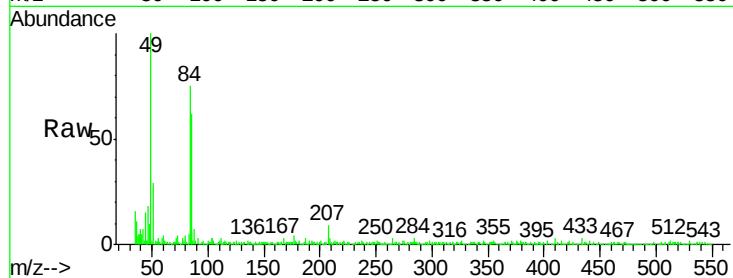
Tgt Ion: 42 Resp: 192

Ion Ratio Lower Upper

42 100

74 0.0 84.3 126.5#

44 403.1 6.7 10.1#



#4

2-Fluorophenol

Concen: 8.37 ng

RT: 5.42 min Scan# 482

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

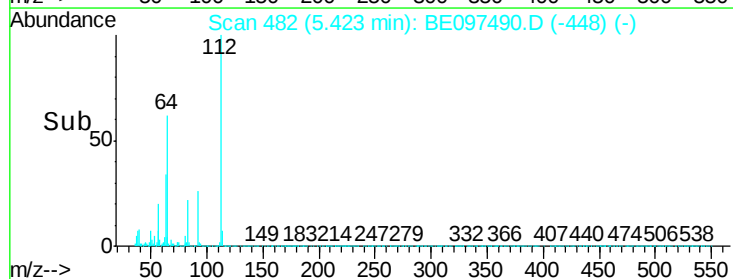
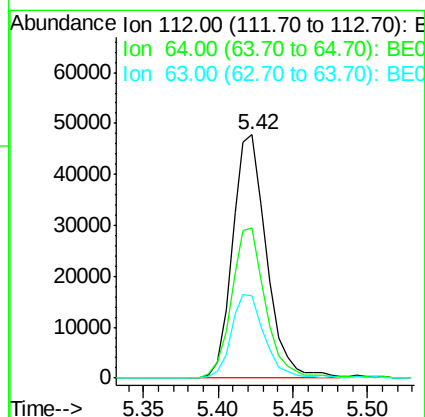
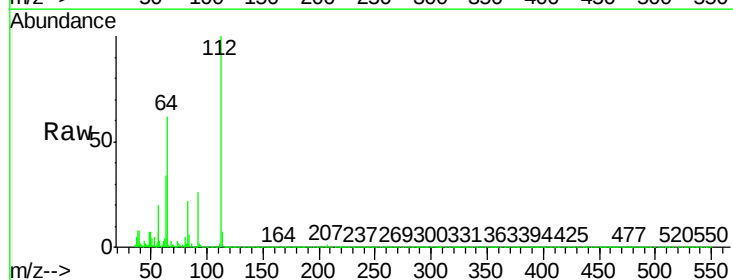
Tgt Ion: 112 Resp: 75595

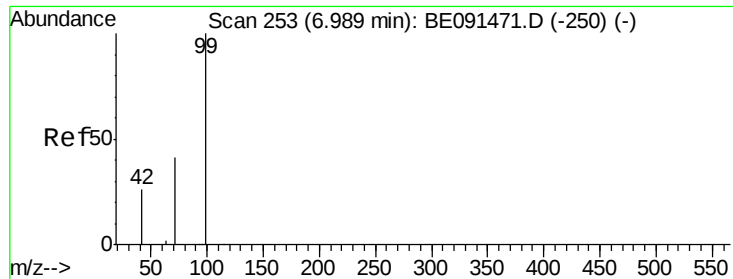
Ion Ratio Lower Upper

112 100

64 62.3 53.3 79.9

63 33.7 29.8 44.8





#5

Phenol-d6

Concen: 8.04 ng

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

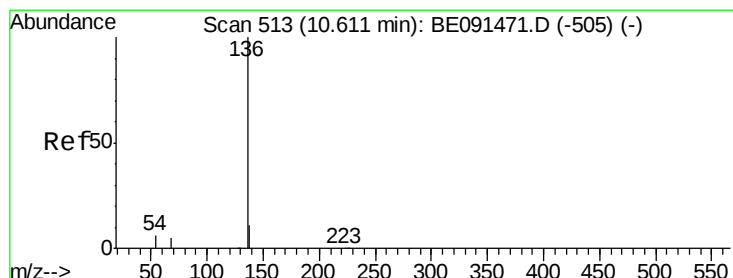
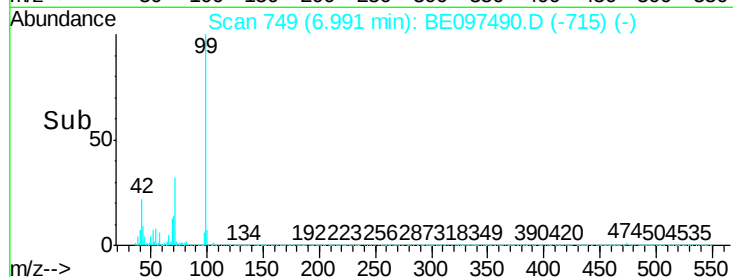
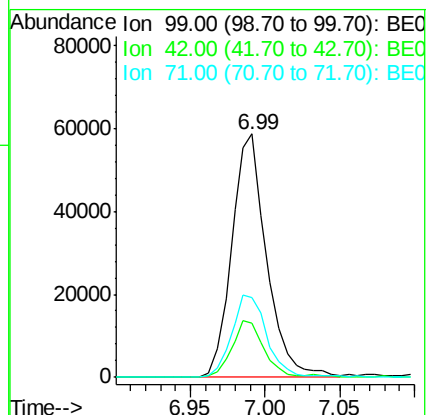
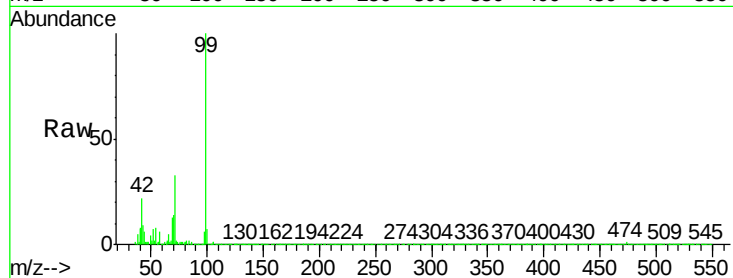
Tgt Ion: 99 Resp: 94845

Ion Ratio Lower Upper

99 100

42 21.4 20.6 30.8

71 34.2 29.0 43.4



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Tgt Ion: 136 Resp: 176246

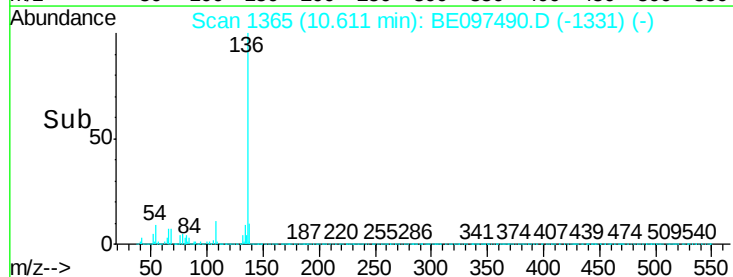
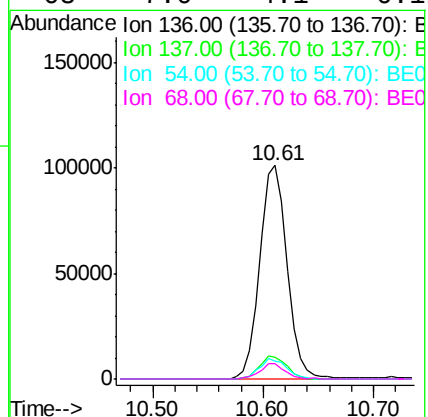
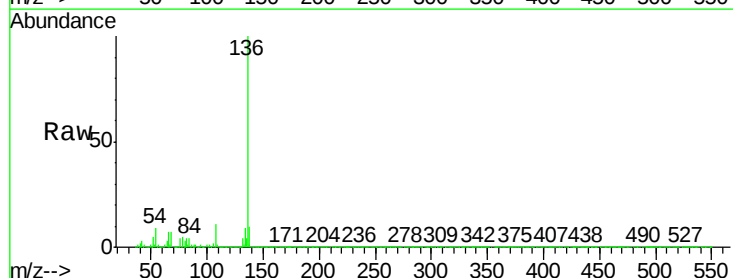
Ion Ratio Lower Upper

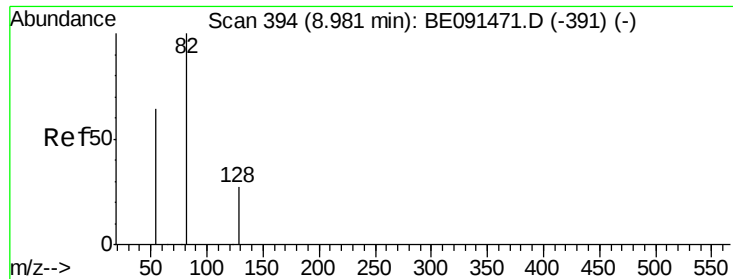
136 100

137 10.3 8.8 13.2

54 8.7 5.2 7.8#

68 7.0 4.1 6.1#





#7

Nitrobenzene-d5

Concen: 3.60 ng

RT: 8.98 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

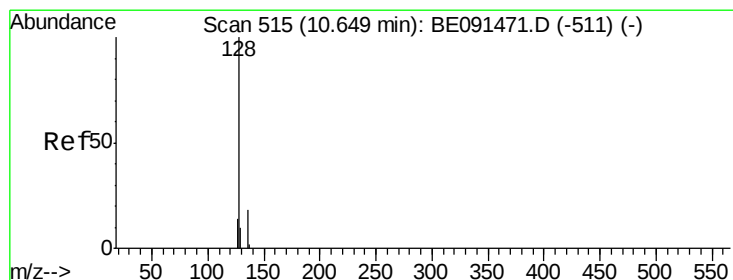
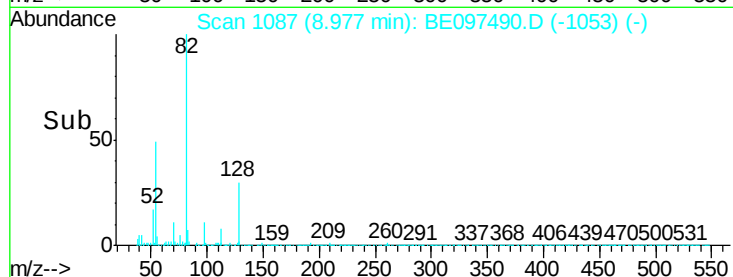
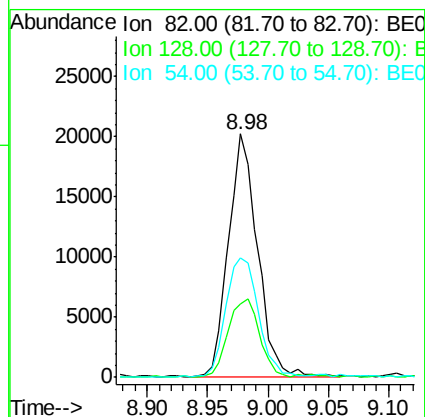
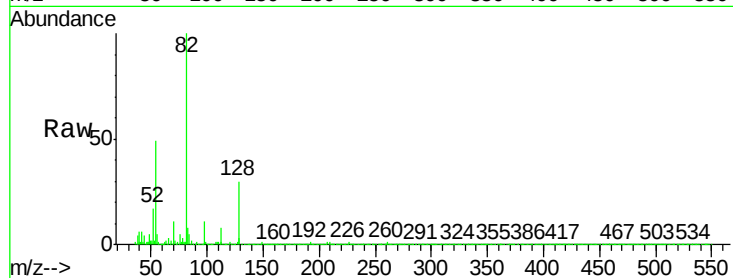
Tgt Ion: 82 Resp: 34165

Ion Ratio Lower Upper

82 100

128 30.3 23.5 35.3

54 49.3 52.4 78.6#



#8

Naphthalene

Concen: 0.12 ng

RT: 10.66 min Scan# 1373

Delta R.T. 0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

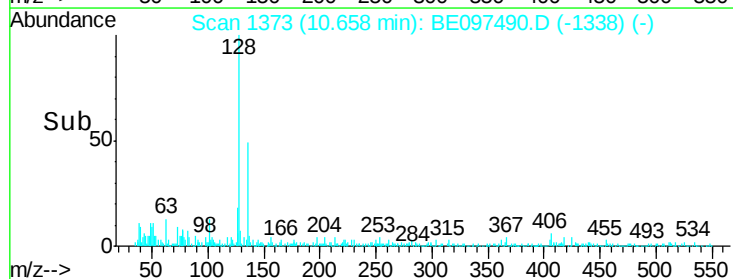
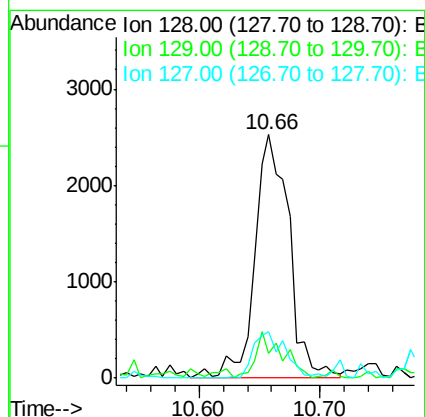
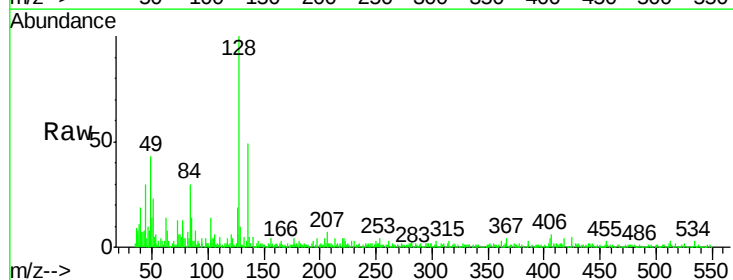
Tgt Ion: 128 Resp: 4995

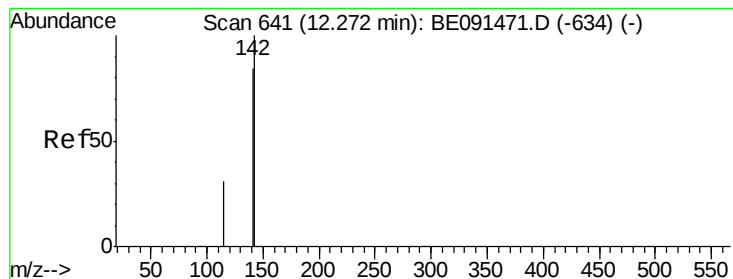
Ion Ratio Lower Upper

128 100

129 10.1 8.2 12.2

127 19.2 11.8 17.8#





#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.10 min Scan# 1619

Delta R.T. -0.17 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

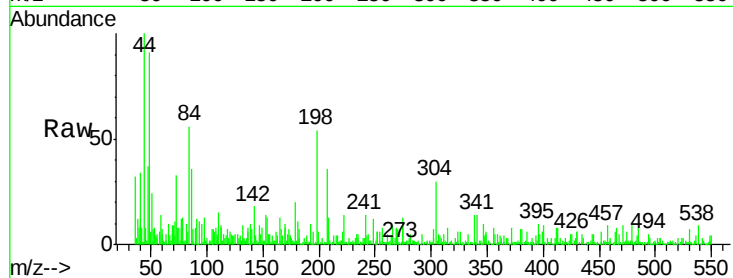
Tgt Ion:142 Resp: 86

Ion Ratio Lower Upper

142 100

141 94.4 66.9 100.3

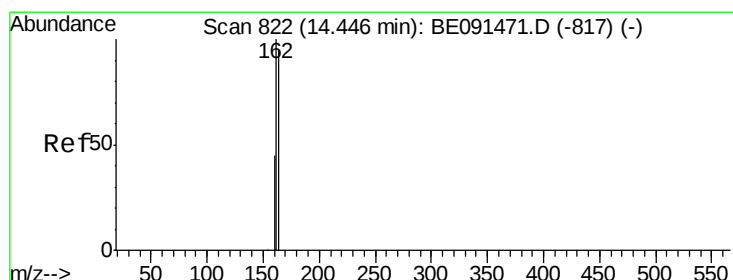
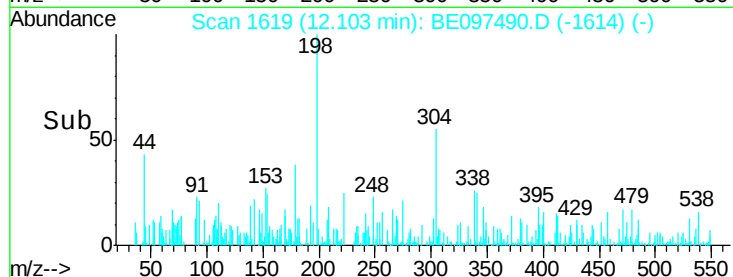
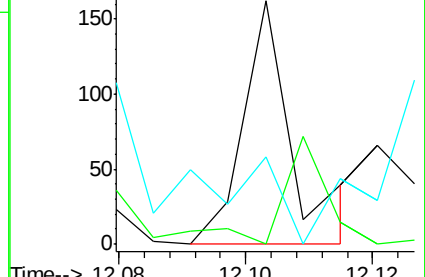
115 35.8 25.1 37.7



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



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.44 min Scan# 2017

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

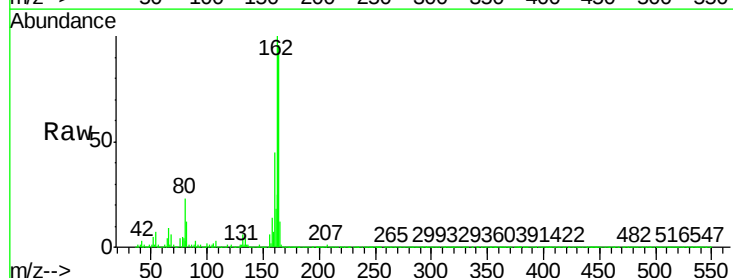
Tgt Ion:164 Resp: 101349

Ion Ratio Lower Upper

164 100

162 103.7 84.4 126.6

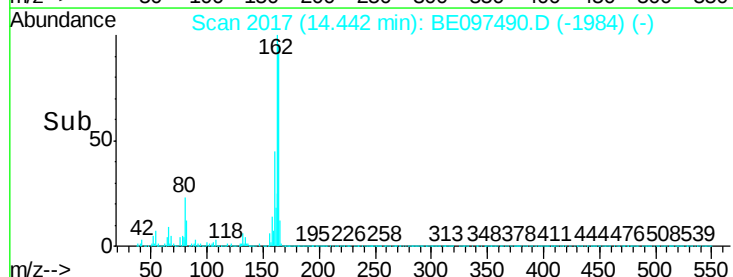
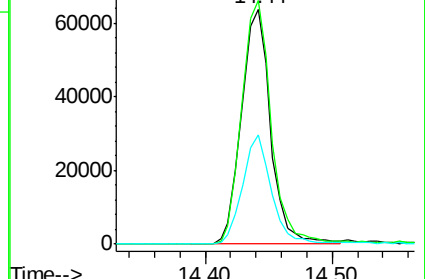
160 46.6 37.7 56.5

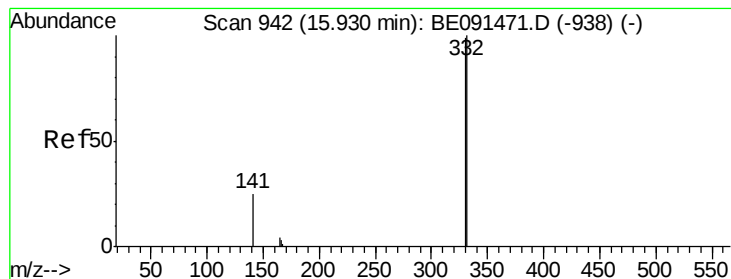


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

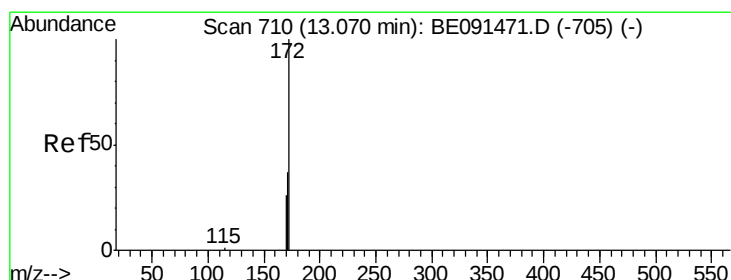
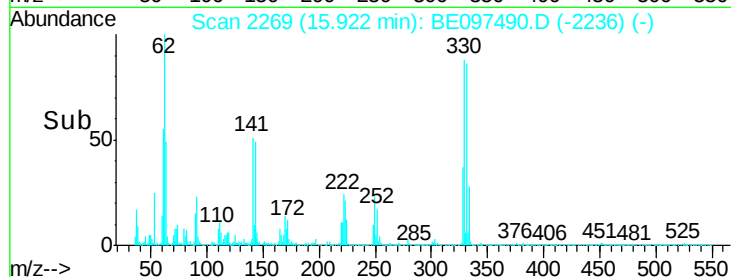
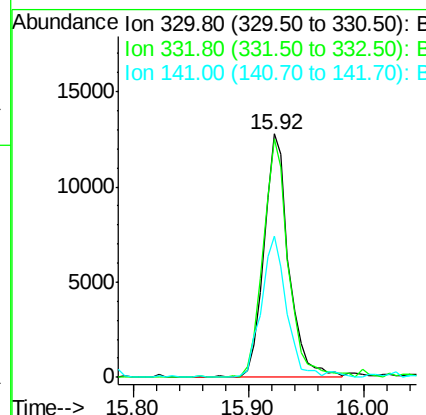
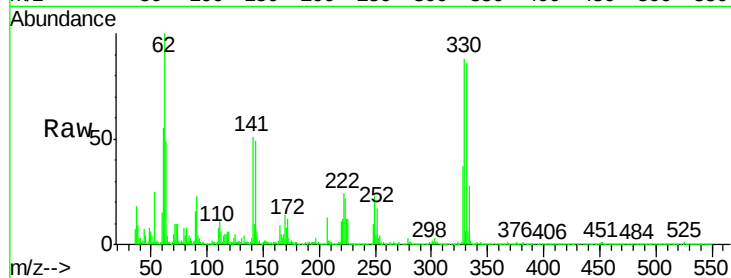




#11
 2,4,6-Tribromophenol
 Concen: 5.22 ng
 RT: 15.92 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 6:52

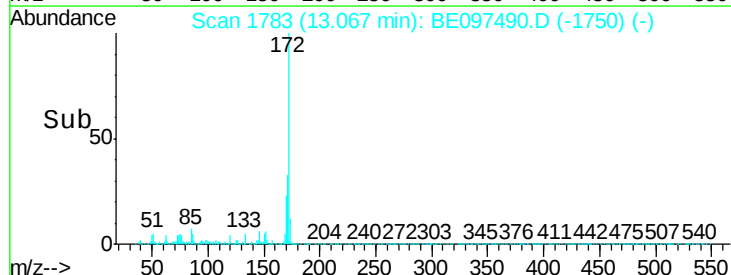
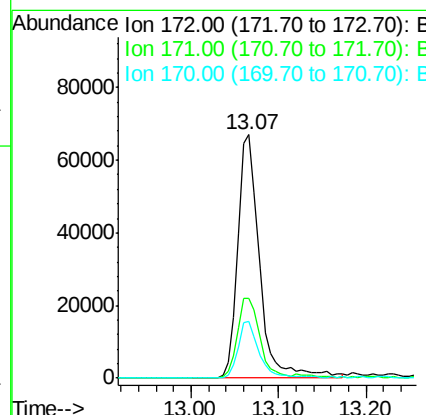
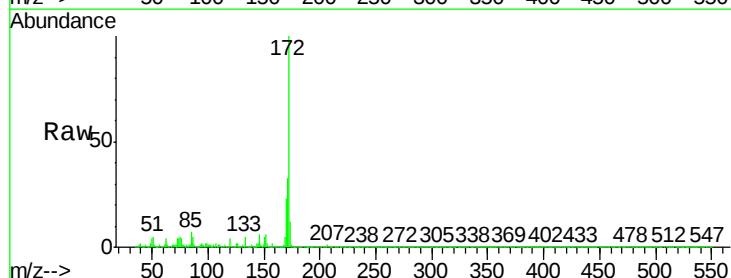
Instrument :
 BNA_E
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 PB88982BS

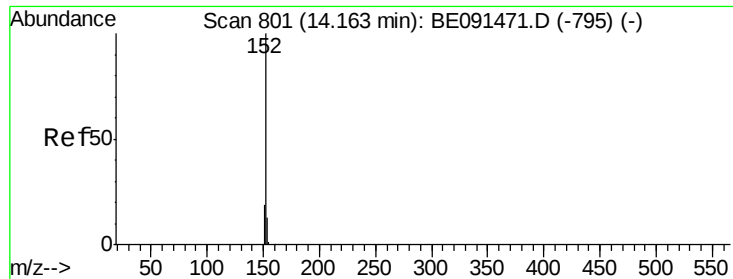
Tgt Ion:330 Resp: 19185
 Ion Ratio Lower Upper
 330 100
 332 100.2 79.2 118.8
 141 58.2 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.47 ng
 RT: 13.07 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 6:52

Tgt Ion:172 Resp: 114009
 Ion Ratio Lower Upper
 172 100
 171 33.0 29.8 44.8
 170 23.3 21.4 32.2





#13

Acenaphthylene

Concen: 0.20 ng

RT: 14.17 min Scan# 1970

Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampled :

PB88982BS

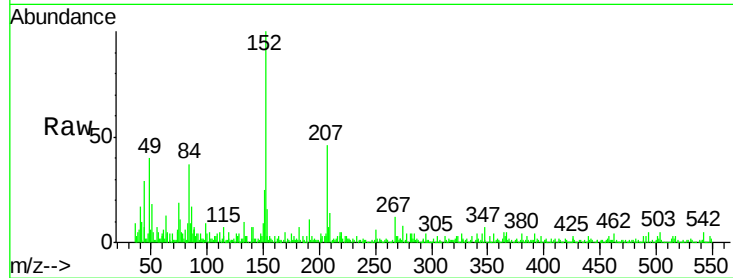
Tgt Ion:152 Resp: 3342

Ion Ratio Lower Upper

152 100

151 23.0 16.3 24.5

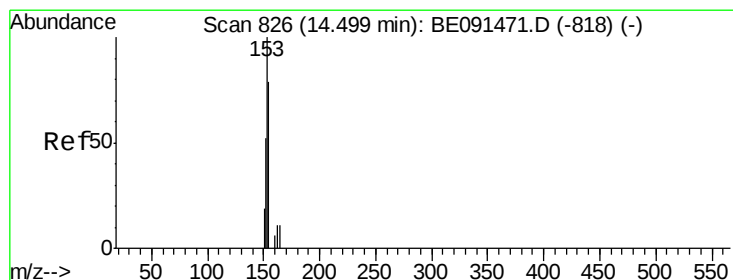
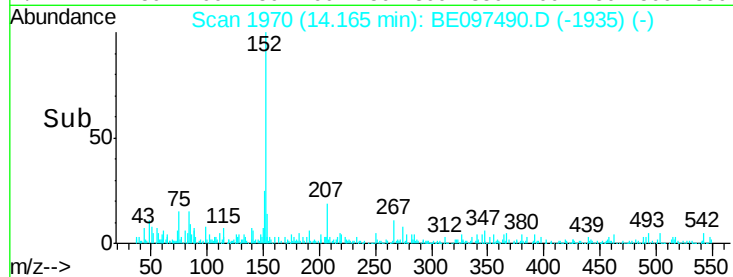
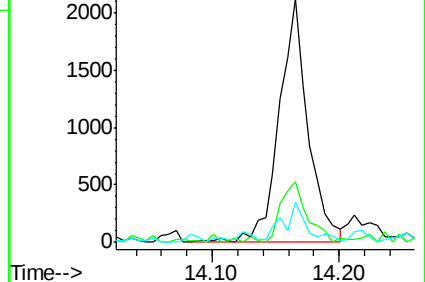
153 13.4 11.1 16.7



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: 0.11 ng

RT: 14.50 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

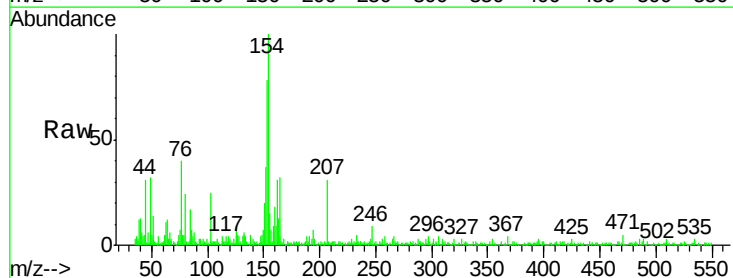
Tgt Ion:154 Resp: 3293

Ion Ratio Lower Upper

154 100

153 122.9 87.3 130.9

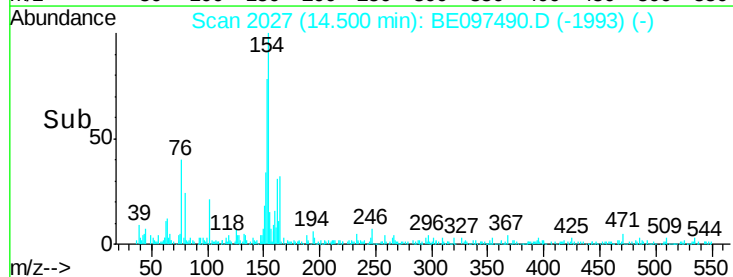
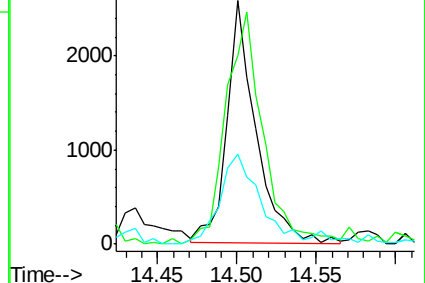
152 50.4 42.9 64.3

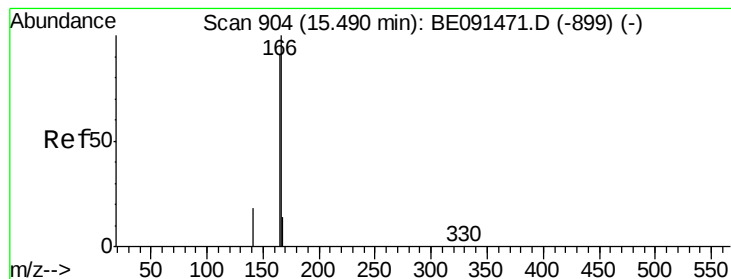


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 0.10 ng

RT: 15.49 min Scan# 2195

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

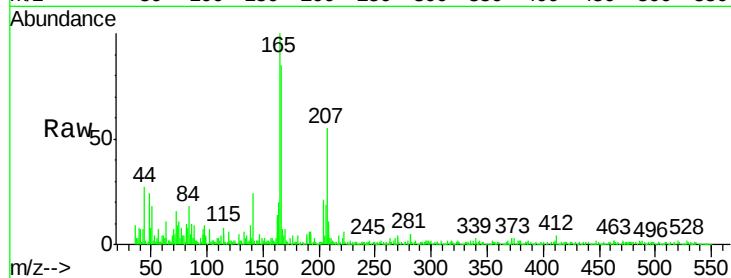
Tgt Ion:166 Resp: 3880

Ion Ratio Lower Upper

166 100

165 109.0 79.2 118.8

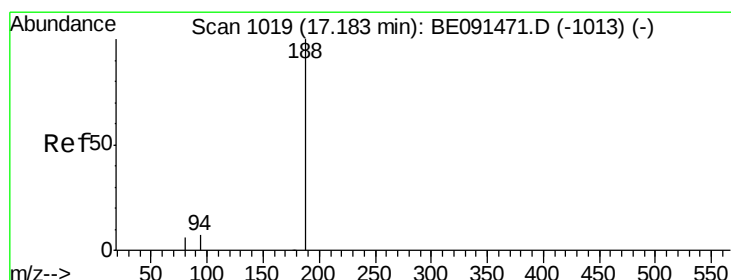
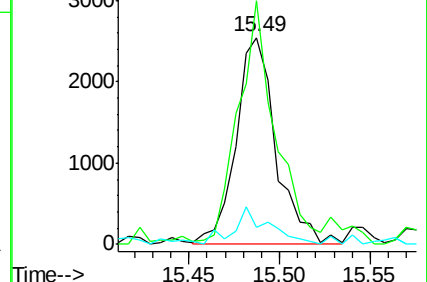
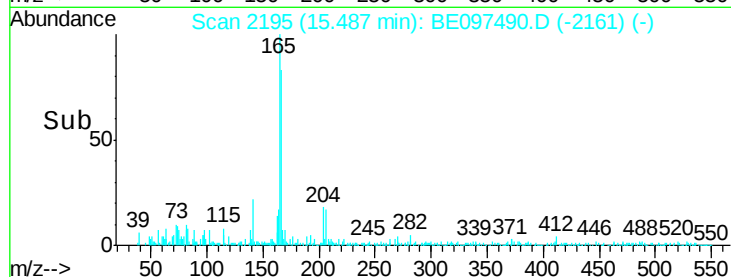
167 15.9 10.8 16.2



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: BE097490.D

Acq: 18 Mar 2016 6:52

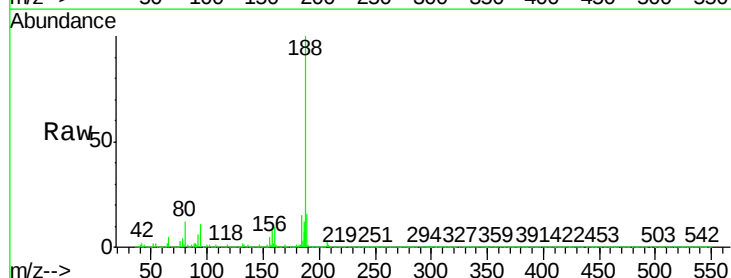
Tgt Ion:188 Resp: 254416

Ion Ratio Lower Upper

188 100

94 10.9 5.4 8.2#

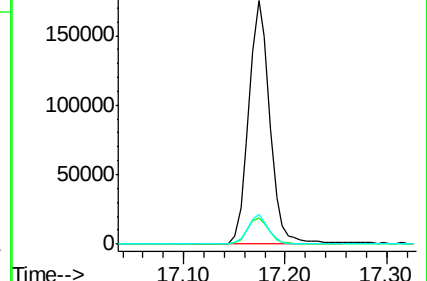
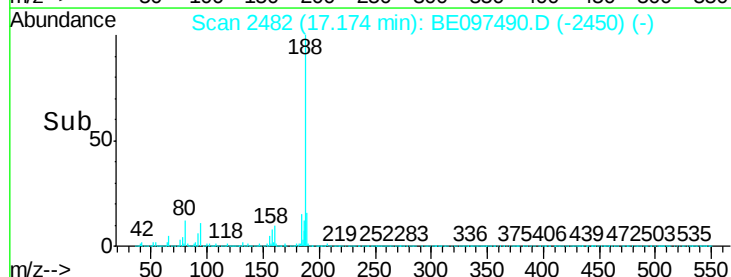
80 12.3 5.0 7.4#

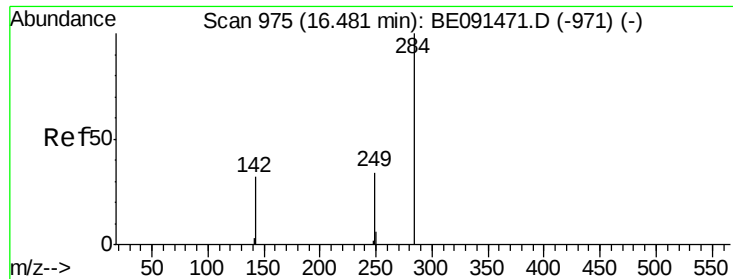


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

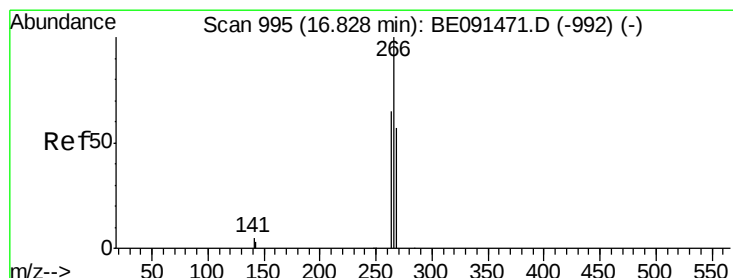
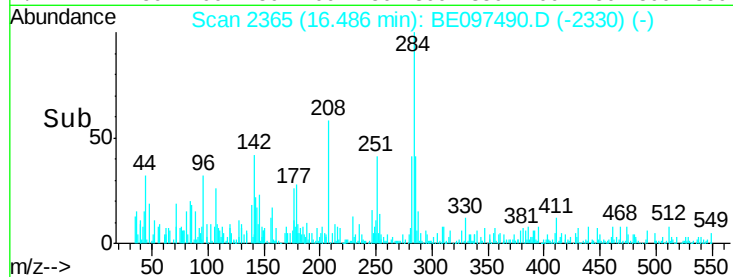
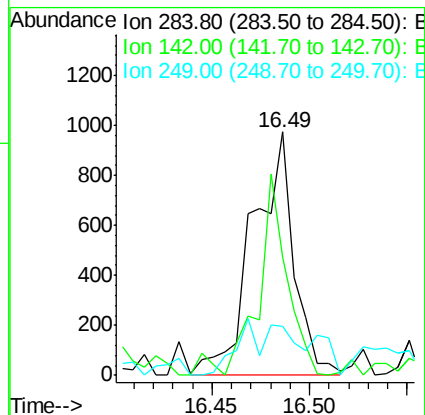
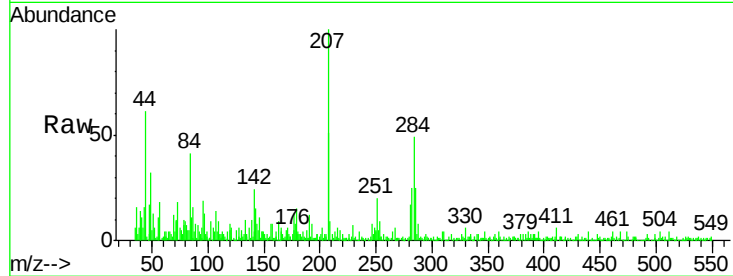




#17
Hexachlorobenzene
Concen: 0.13 ng
RT: 16.49 min Scan# 2365
Delta R.T. 0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 6:52

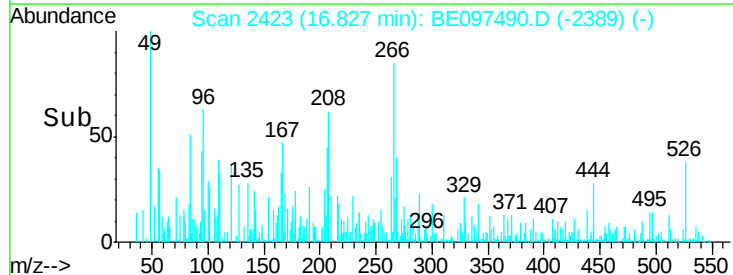
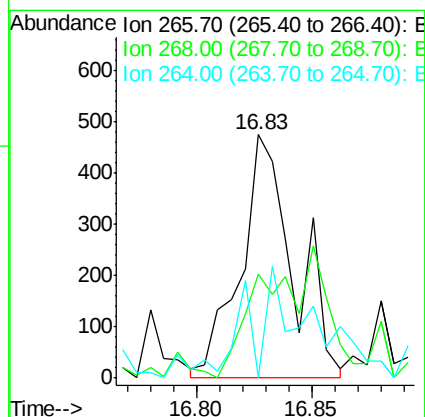
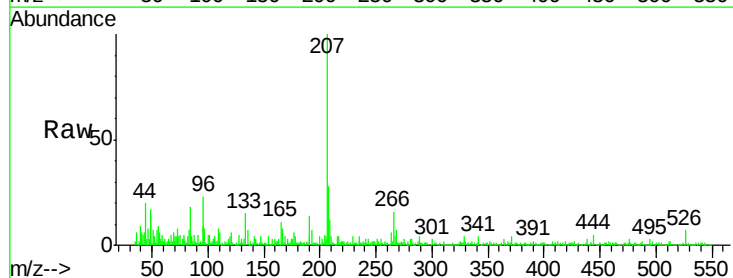
Instrument :
BNA_E
ClientSampleId :
PB88982BS

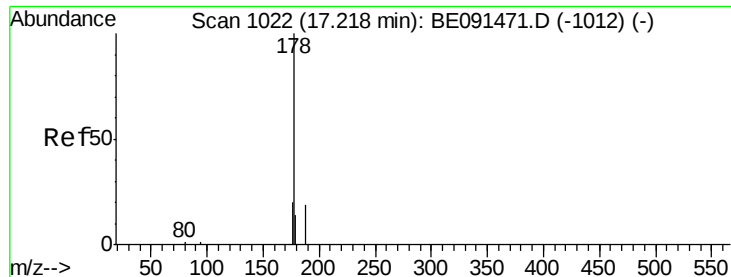
Tgt Ion:284 Resp: 1414
Ion Ratio Lower Upper
284 100
142 56.2 31.0 46.4#
249 14.6 25.8 38.8#



#18
Pentachlorophenol
Concen: 0.42 ng
RT: 16.83 min Scan# 2423
Delta R.T. -0.00 min
Lab File: BE097490.D
Acq: 18 Mar 2016 6:52

Tgt Ion:266 Resp: 766
Ion Ratio Lower Upper
266 100
268 42.7 48.2 72.2#
264 0.0 52.1 78.1#





#19

Phenanthrene

Concen: 0.12 ng

RT: 17.21 min Scan# 2489

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

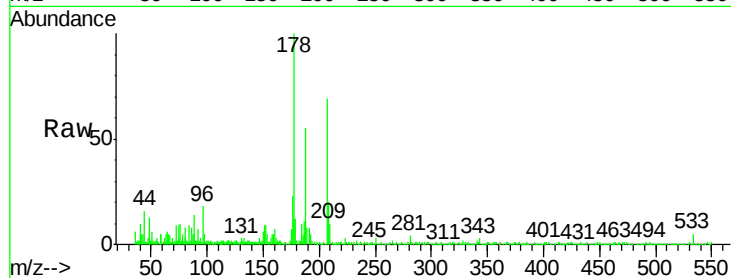
Tgt Ion:178 Resp: 8834

Ion Ratio Lower Upper

178 100

176 21.1 15.5 23.3

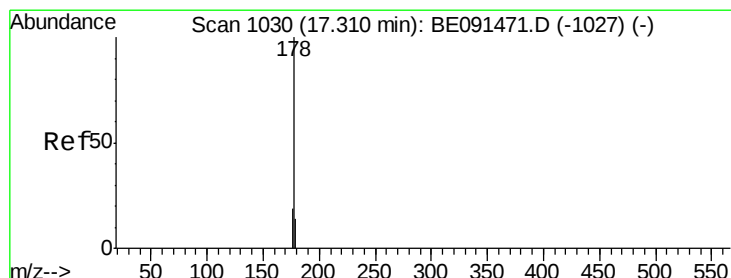
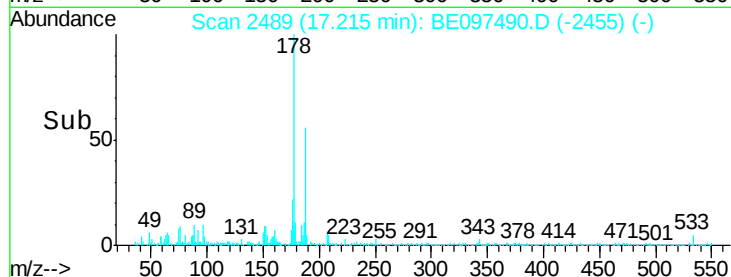
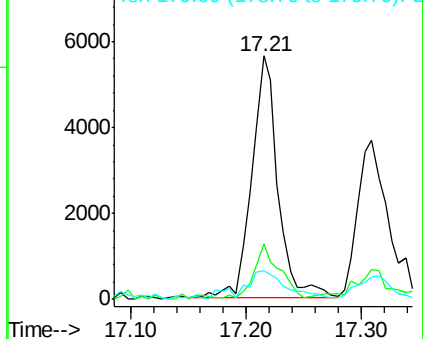
179 15.7 13.1 19.7



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: BE097490.D

Acq: 18 Mar 2016 6:52

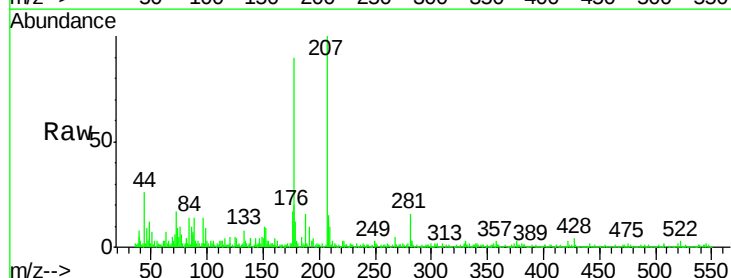
Tgt Ion:178 Resp: 6591

Ion Ratio Lower Upper

178 100

176 20.4 14.9 22.3

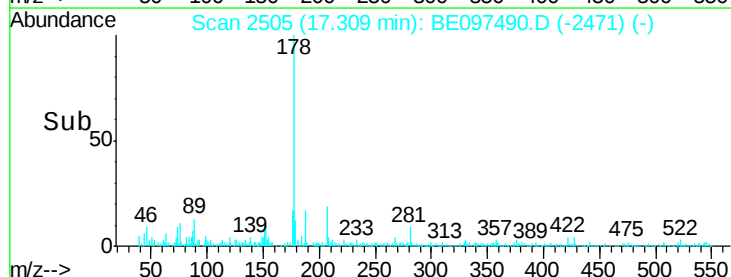
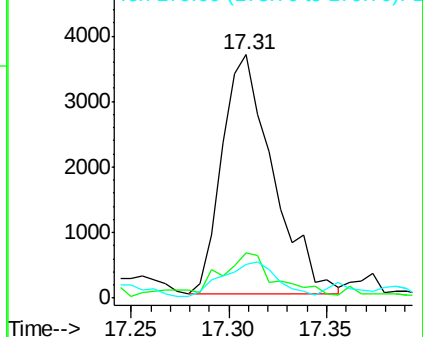
179 15.6 12.2 18.4

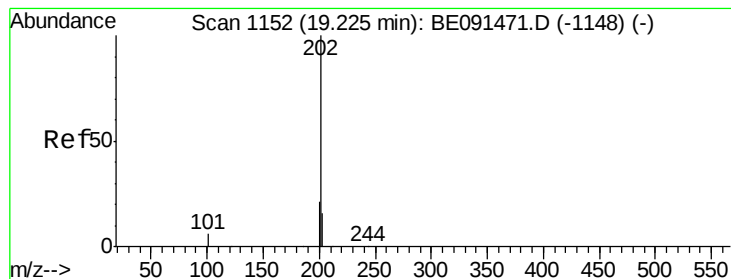


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 0.09 ng

RT: 19.22 min Scan# 2831

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

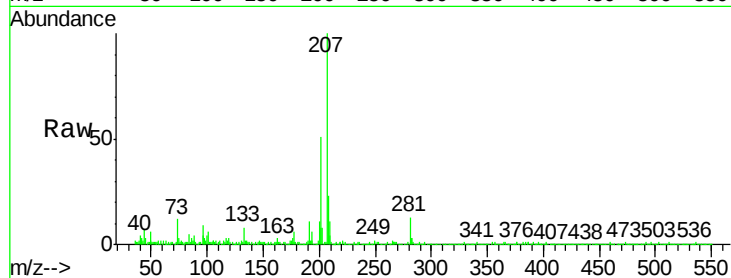
Tgt Ion: 202 Resp: 7692

Ion Ratio Lower Upper

202 100

101 19.3 8.3 12.5#

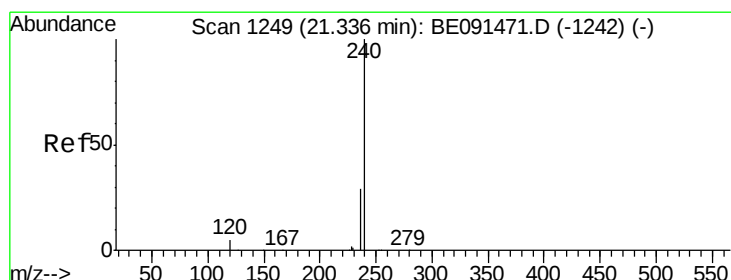
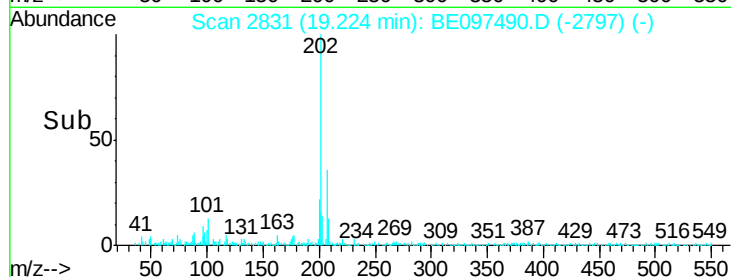
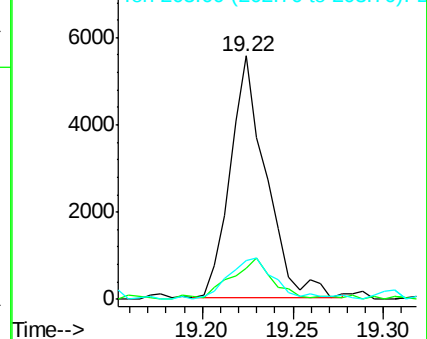
203 23.0 13.9 20.9#



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: BE097490.D

Acq: 18 Mar 2016 6:52

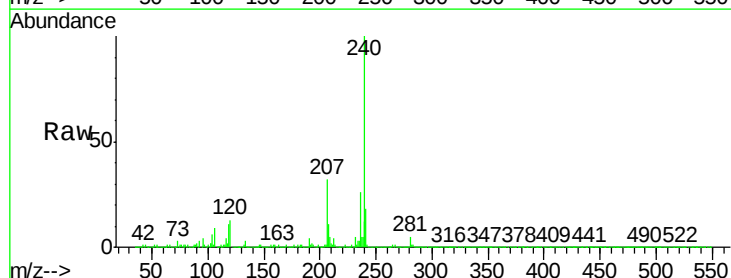
Tgt Ion: 240 Resp: 309333

Ion Ratio Lower Upper

240 100

120 12.6 4.0 6.0#

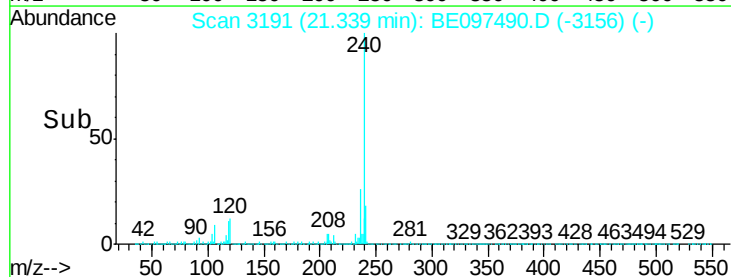
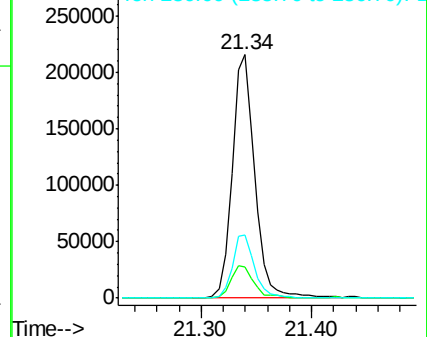
236 25.8 23.0 34.4

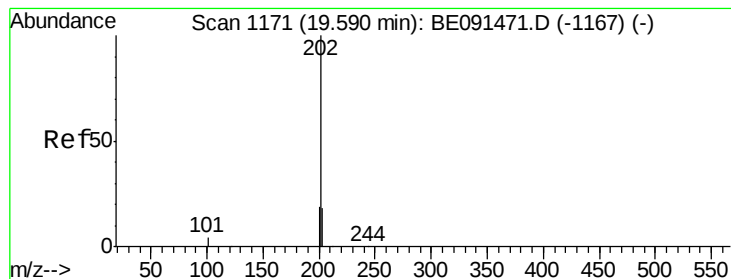


Abundance Ion 240.00 (239.70 to 240.70): E

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: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

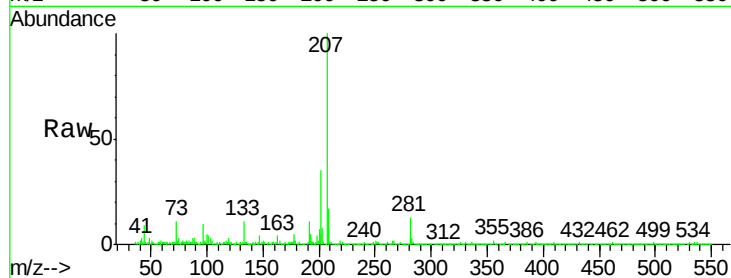
Tgt Ion:202 Resp: 8339

Ion Ratio Lower Upper

202 100

200 20.7 16.4 24.6

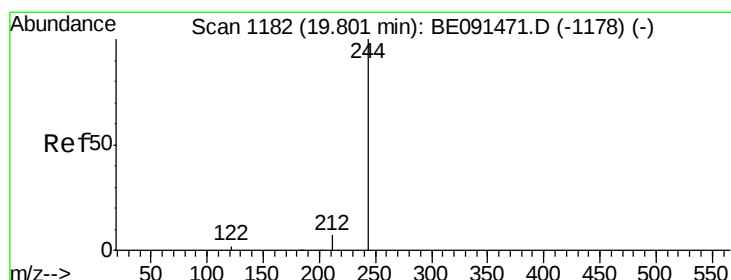
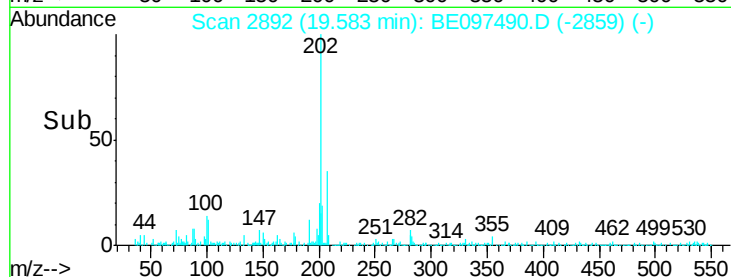
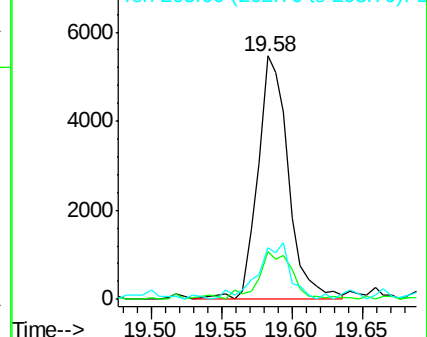
203 24.0 14.6 21.8#



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



#24

Terphenyl-d14

Concen: 5.15 ng

RT: 19.79 min Scan# 2927

Delta R.T. -0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

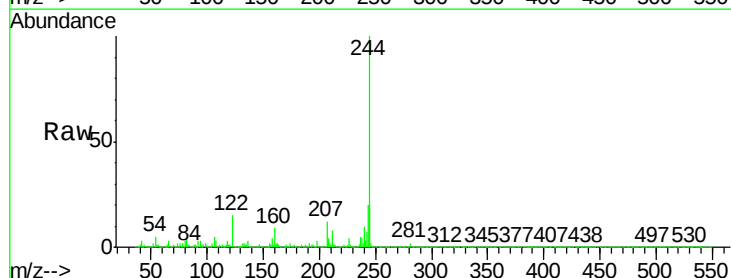
Tgt Ion:244 Resp: 191425

Ion Ratio Lower Upper

244 100

212 8.2 5.8 8.8

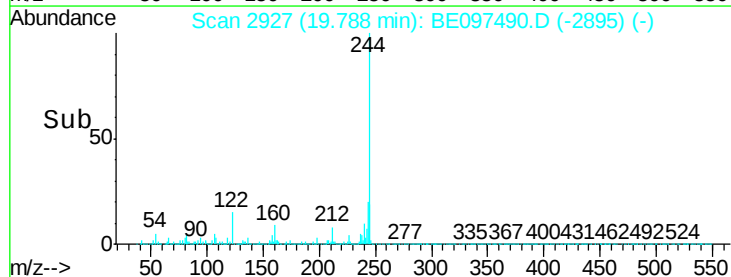
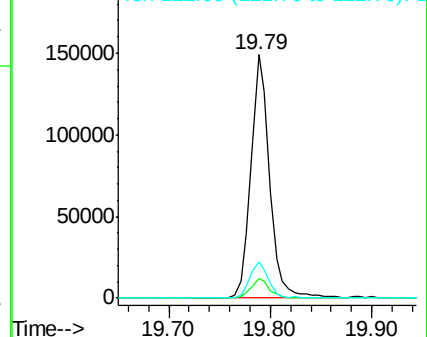
122 14.9 1.8 2.8#

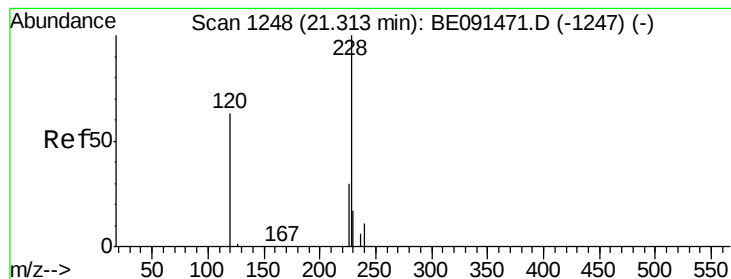


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#25

Benzo(a)anthracene

Concen: 0.10 ng

RT: 21.32 min Scan# 3188

Delta R.T. 0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

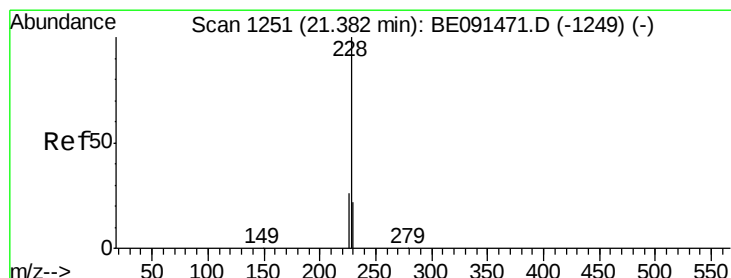
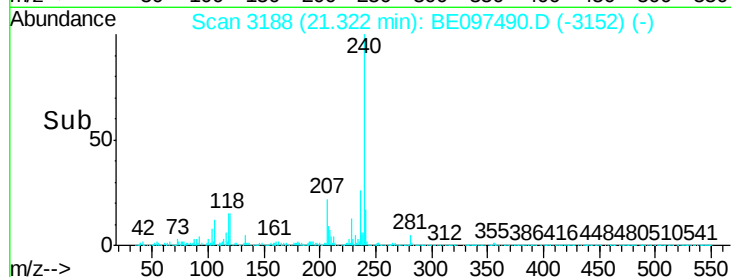
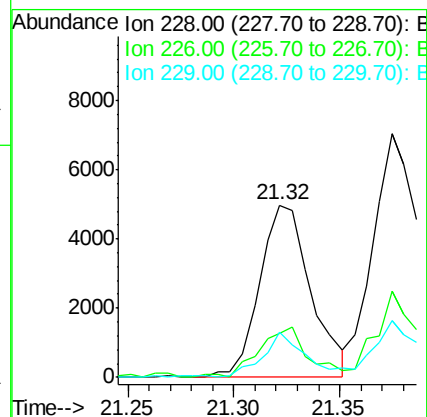
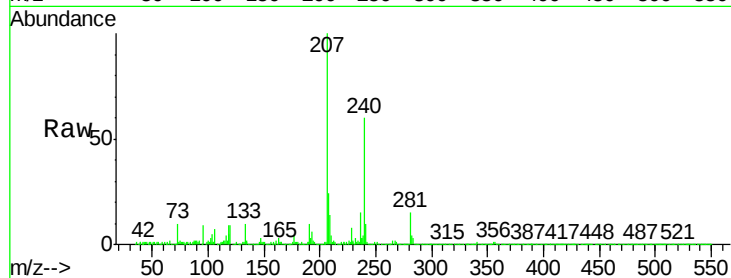
Tgt Ion:228 Resp: 8346

Ion Ratio Lower Upper

228 100

226 25.1 24.0 36.0

229 26.4 13.8 20.6#



#26

Chrysene

Concen: Below Cal

RT: 21.32 min Scan# 3188

Delta R.T. -0.06 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

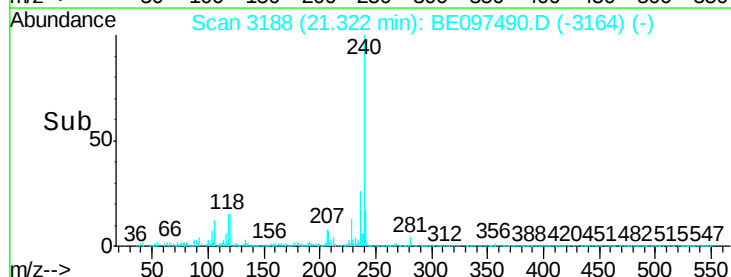
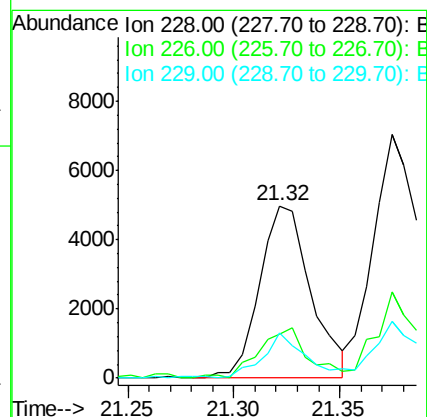
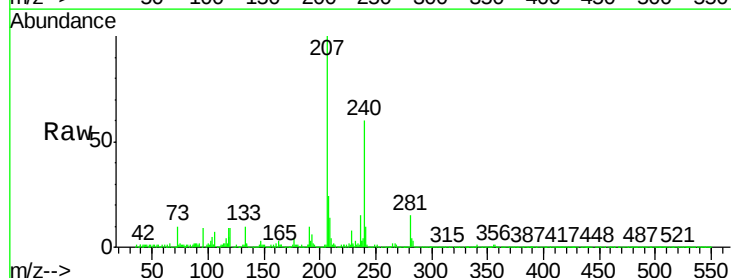
Tgt Ion:228 Resp: 8346

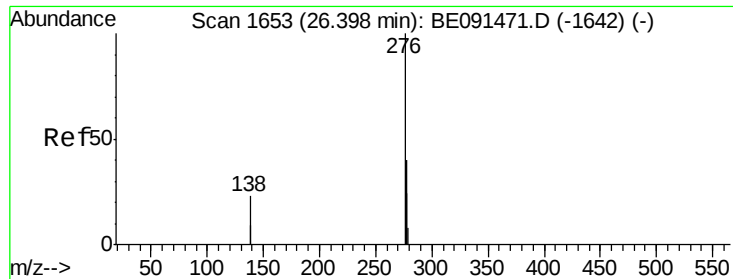
Ion Ratio Lower Upper

228 100

226 25.1 18.9 28.3

229 26.4 19.1 28.7

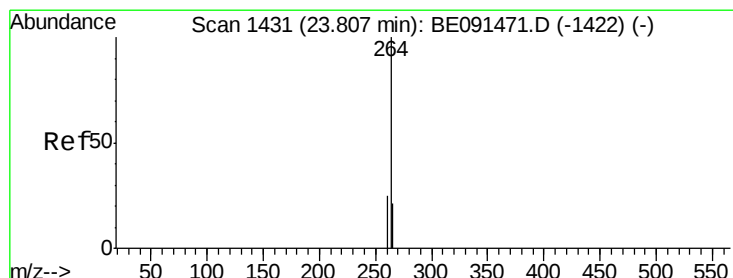
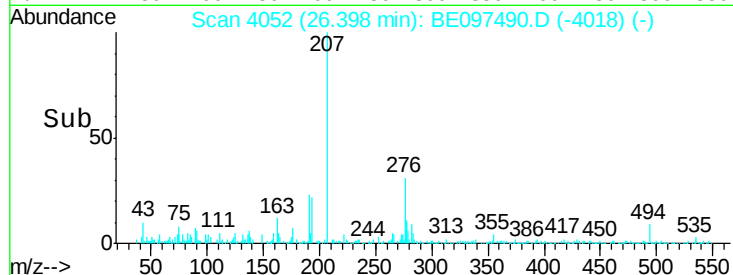
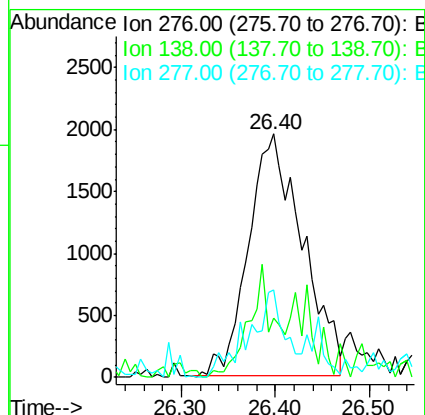
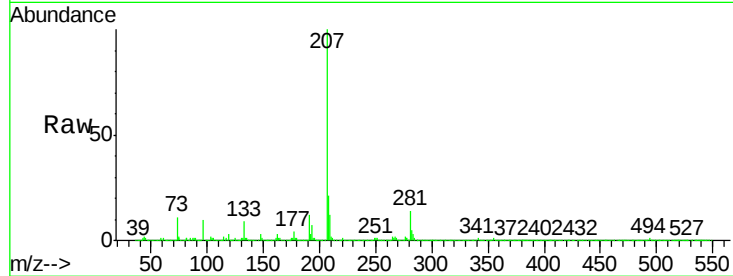




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.09 ng
 RT: 26.40 min Scan# 4052
 Delta R.T. 0.00 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 6:52

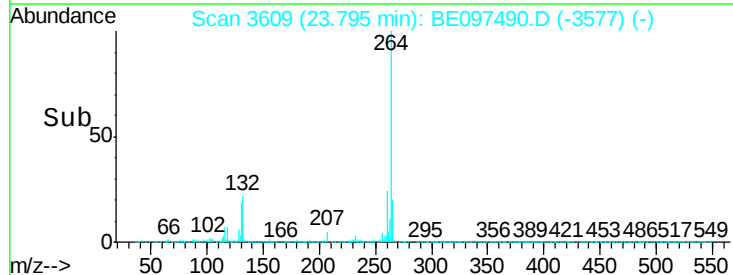
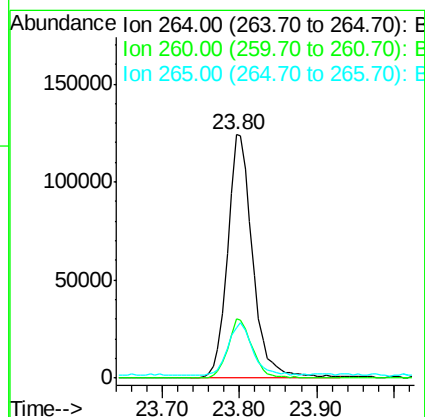
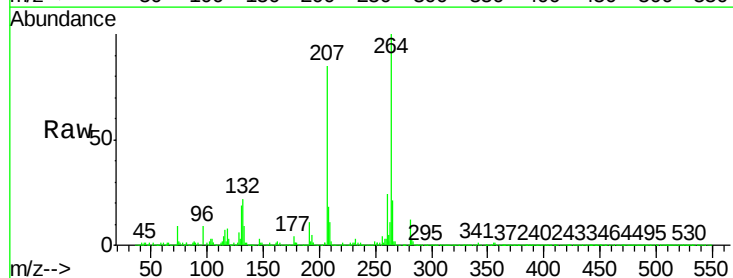
Instrument :
 BNA_E
 ClientSampleId :
 PB88982BS

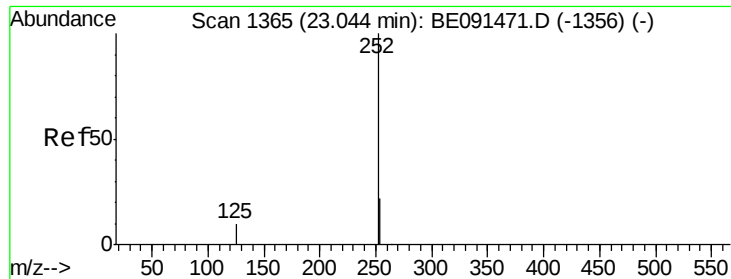
Tgt Ion:276 Resp: 7787
 Ion Ratio Lower Upper
 276 100
 138 21.0 20.2 30.4
 277 21.1 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.80 min Scan# 3609
 Delta R.T. -0.01 min
 Lab File: BE097490.D
 Acq: 18 Mar 2016 6:52

Tgt Ion:264 Resp: 282238
 Ion Ratio Lower Upper
 264 100
 260 24.1 20.1 30.1
 265 20.8 18.3 27.5





#29

Benzo(b)fluoranthene

Concen: 0.11 ng

RT: 23.05 min Scan# 3482

Delta R.T. 0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

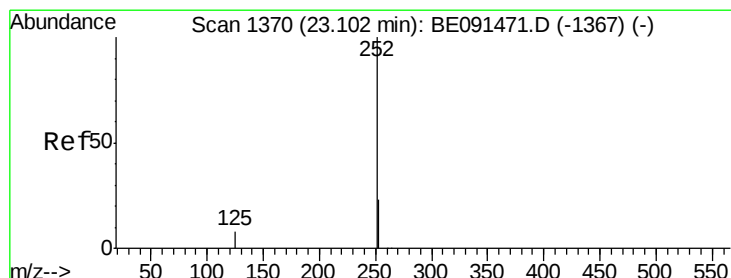
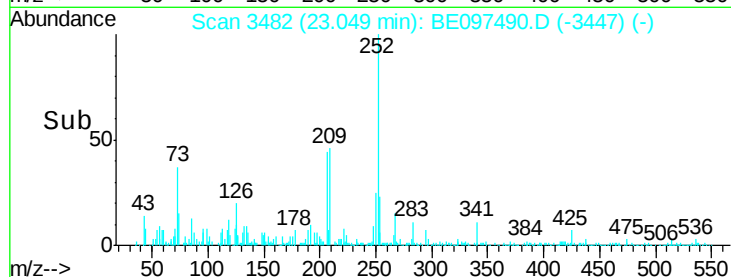
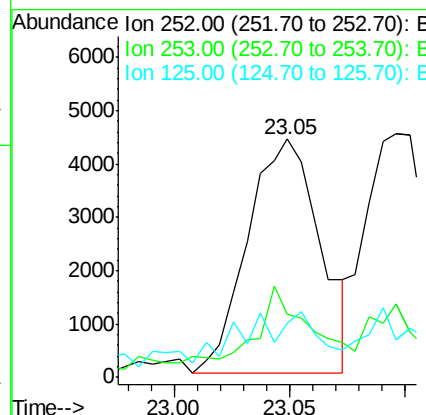
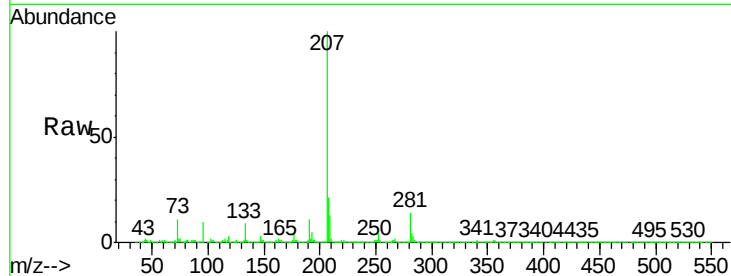
Instrument :

BNA_E

ClientSampleId :

PB88982BS

Tgt Ion:	252	Resp:	9553
Ion Ratio	Lower	Upper	
252	100		
253	26.7	18.7	28.1
125	22.6	9.8	14.6#



#30

Benzo(k)fluoranthene

Concen: 0.11 ng

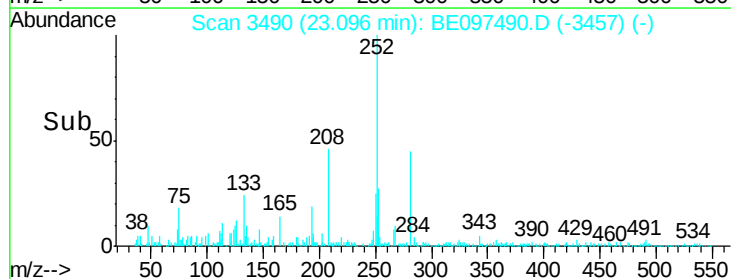
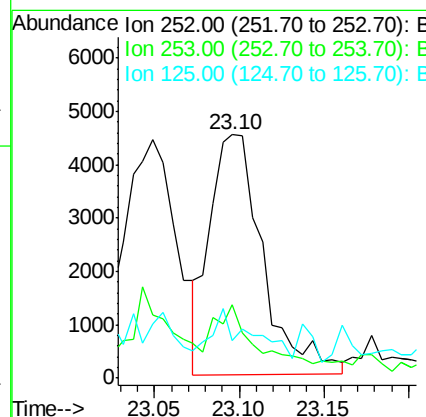
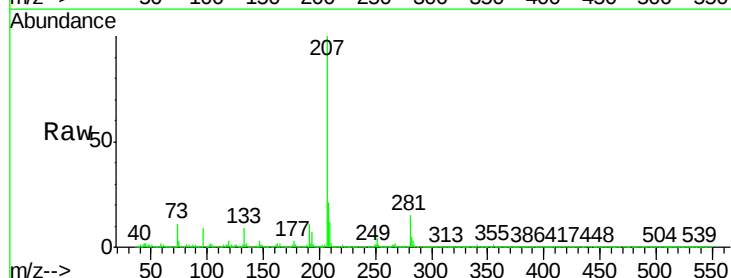
RT: 23.10 min Scan# 3490

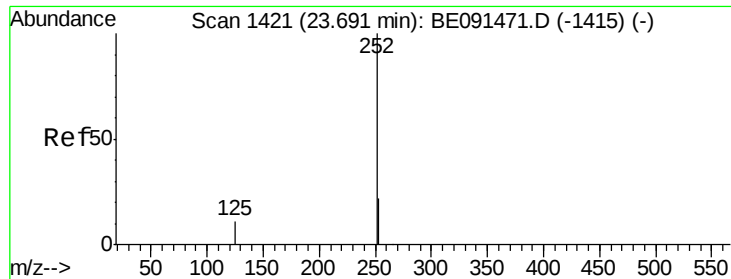
Delta R.T. -0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Tgt Ion:	252	Resp:	9860
Ion Ratio	Lower	Upper	
252	100		
253	30.1	20.2	30.4
125	15.5	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.10 ng

RT: 23.69 min Scan# 3591

Delta R.T. -0.00 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

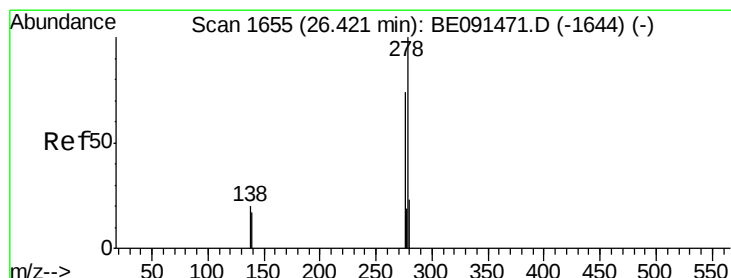
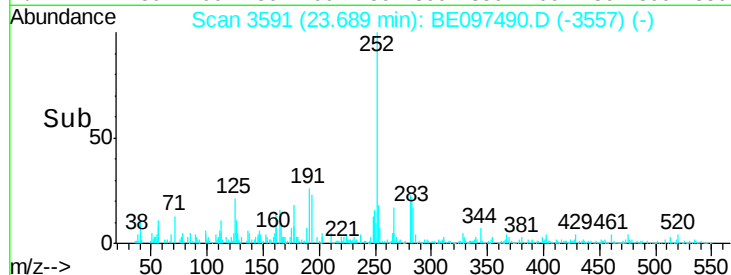
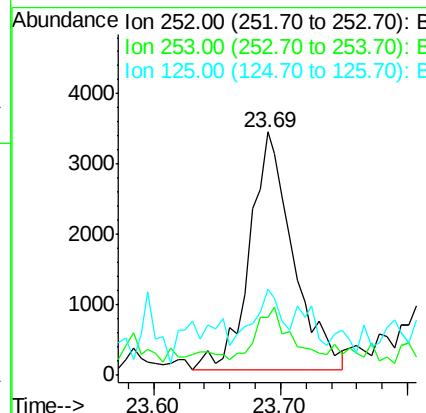
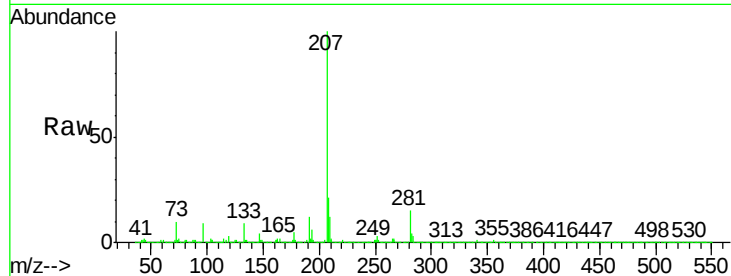
Instrument :

BNA_E

ClientSampleId :

PB88982BS

Tgt Ion:	252	Resp:	8004
Ion Ratio	Lower	Upper	
252	100		
253	23.6	19.4	29.0
125	35.4	11.4	17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.05 ng

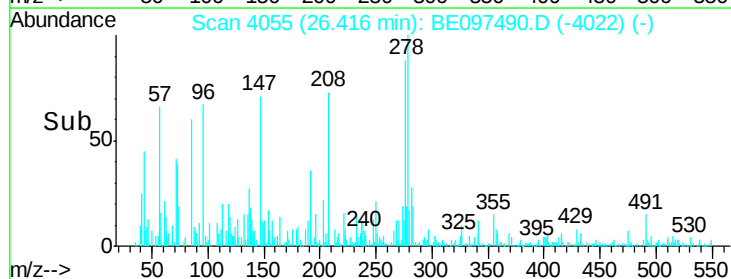
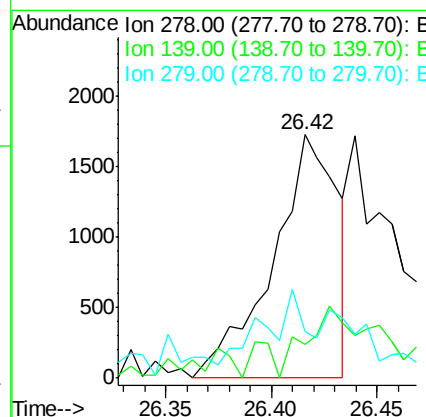
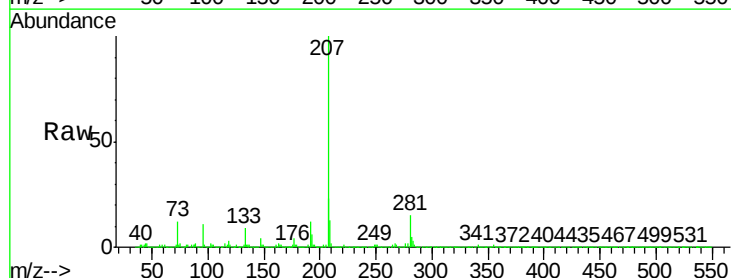
RT: 26.42 min Scan# 4055

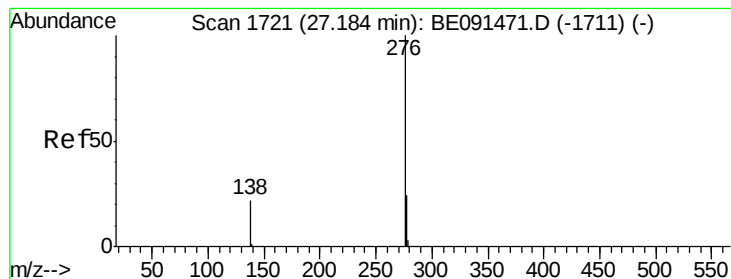
Delta R.T. -0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Tgt Ion:	278	Resp:	3668
Ion Ratio	Lower	Upper	
278	100		
139	14.0	14.2	21.4#
279	18.8	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.09 ng

RT: 27.19 min Scan# 4187

Delta R.T. 0.01 min

Lab File: BE097490.D

Acq: 18 Mar 2016 6:52

Instrument :

BNA_E

ClientSampleId :

PB88982BS

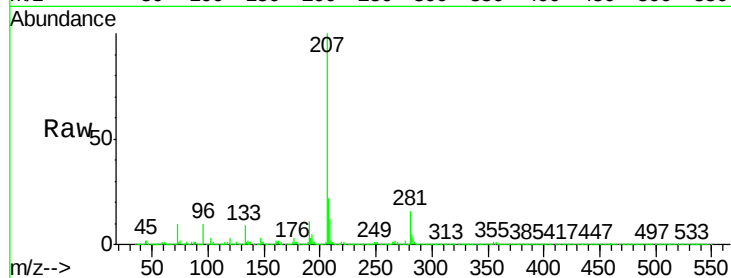
Tgt Ion: 276 Resp: 7279

Ion Ratio Lower Upper

276 100

277 18.7 19.4 29.2#

138 39.2 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

