

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE097479.D
 Acq On : 17 Mar 2016 23:28
 Operator : UM/SJ
 Sample : MDL-02-W
 Misc : 0.08PPM
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 18 04:55:23 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	39877	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	171998	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	100959	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	263159	5.00	ng	0.00
22) Chrysene-d12	21.34	240	329413	5.00	ng	0.00
28) Perylene-d12	23.80	264	311571	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	71998	7.86	ng	0.00
5) Phenol-d6	6.99	99	88312	7.38	ng	0.00
7) Nitrobenzene-d5	8.98	82	30952	3.36	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	20853	5.67	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	110926	4.37	ng	0.00
24) Terphenyl-d14	19.79	244	195910	4.94	ng	0.00

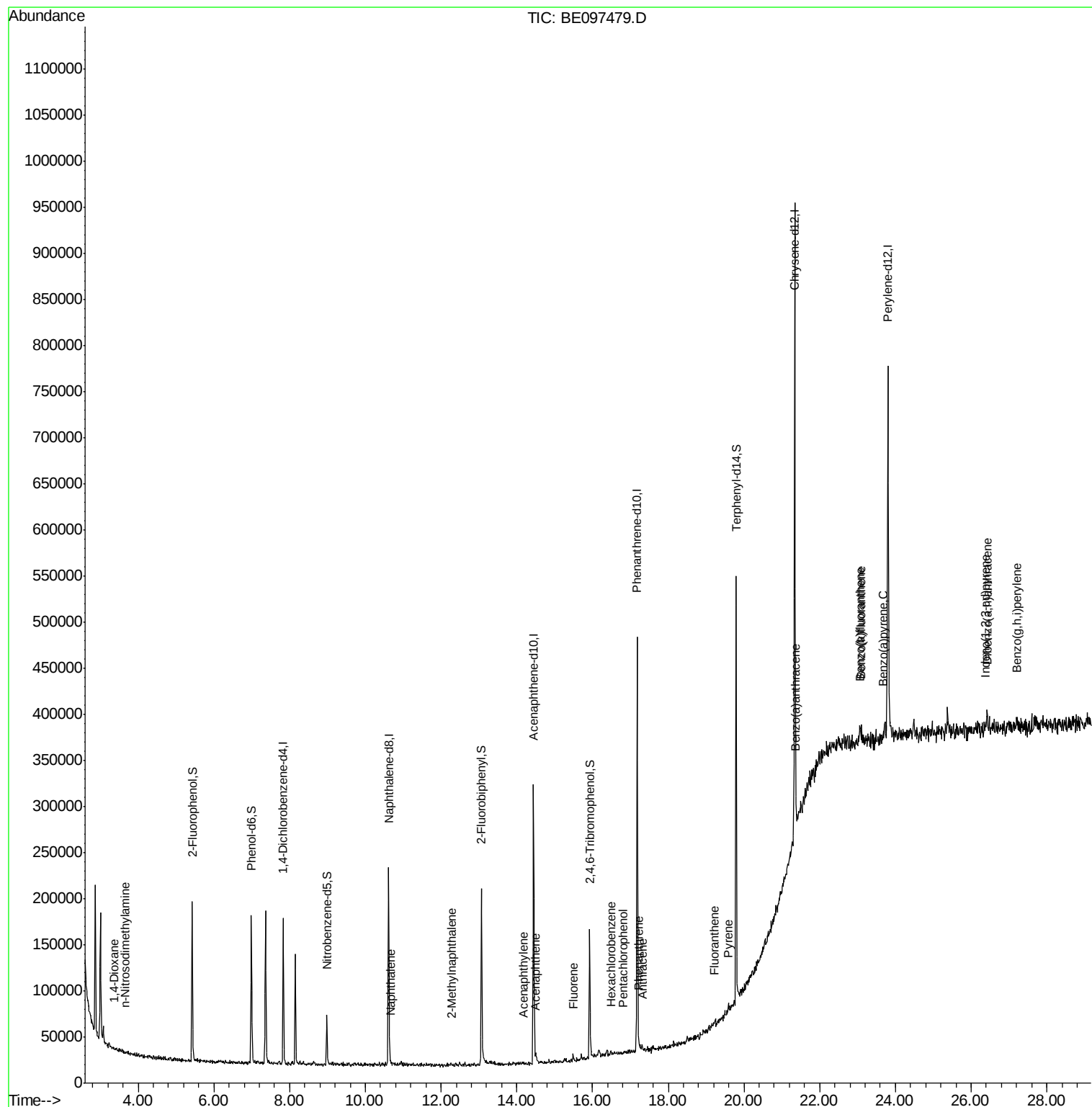
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	371	0.07	ng	# 38
3) n-Nitrosodimethylamine	3.67	42	296	0.04	ng	# 1
8) Naphthalene	10.66	128	2479	0.06	ng	# 80
9) 2-Methylnaphthalene	12.27	142	1219	0.05	ng	# 54
13) Acenaphthylene	14.18	152	1978	0.17	ng	95
14) Acenaphthene	14.51	154	1587	0.05	ng	93
15) Fluorene	15.49	166	1637	0.04	ng	# 71
17) Hexachlorobenzene	16.49	284	978	0.09	ng	# 82
18) Pentachlorophenol	16.82	266	119	0.32	ng	# 44
19) Phenanthrene	17.21	178	4802	0.06	ng	# 88
20) Anthracene	17.31	178	3051	0.05	ng	# 77
21) Fluoranthene	19.23	202	4128	0.05	ng	# 82
23) Pyrene	19.59	202	4407	0.05	ng	# 92
25) Benzo(a)anthracene	21.37	228	7294	0.08	ng	92
26) Chrysene	21.37	228	7294	Below Cal		# 82
27) Indeno(1,2,3-cd)pyrene	26.39	276	1915	0.02	ng	# 59
29) Benzo(b)fluoranthene	23.05	252	5473	0.06	ng	# 80
30) Benzo(k)fluoranthene	23.10	252	6254	0.06	ng	# 77
31) Benzo(a)pyrene	23.69	252	4391	0.05	ng	# 87
32) Dibenzo(a,h)anthracene	26.42	278	1433	0.02	ng	# 25
33) Benzo(g,h,i)perylene	27.20	276	3620	0.04	ng	# 82

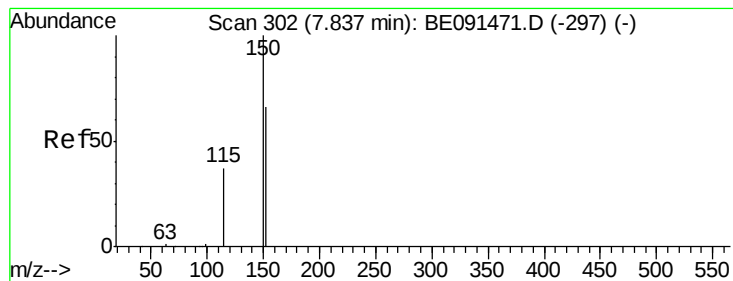
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
Data File : BE097479.D
Acq On : 17 Mar 2016 23:28
Operator : UM/SJ
Sample : MDL-02-W
Misc : 0.08PPM
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :

Quant Time: Mar 18 04:55:23 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.83 min Scan# 892

Delta R.T. -0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

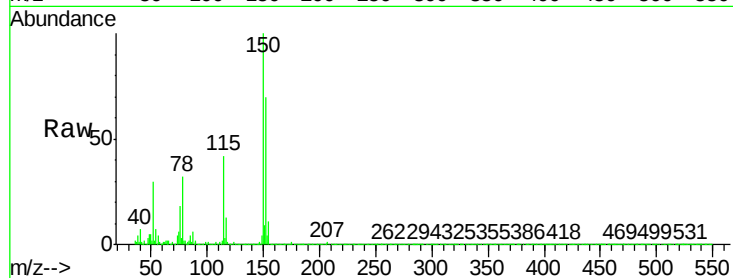
Tgt Ion:152 Resp: 39877

Ion Ratio Lower Upper

152 100

150 142.4 122.2 183.2

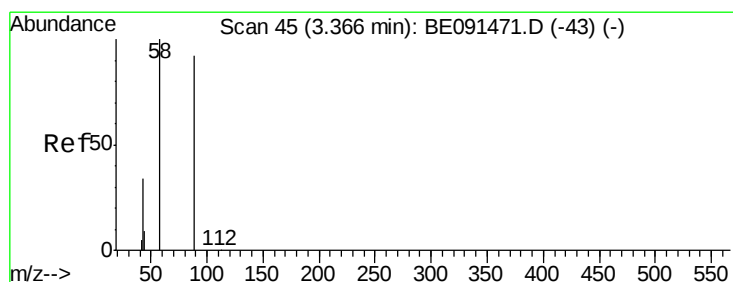
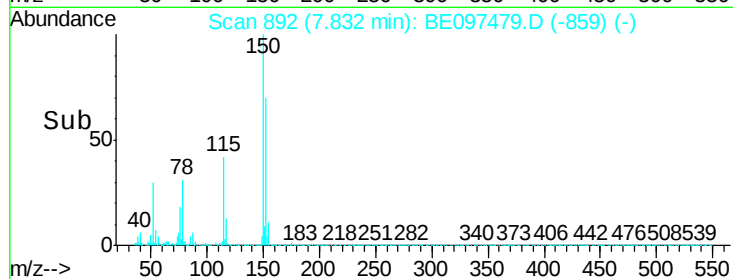
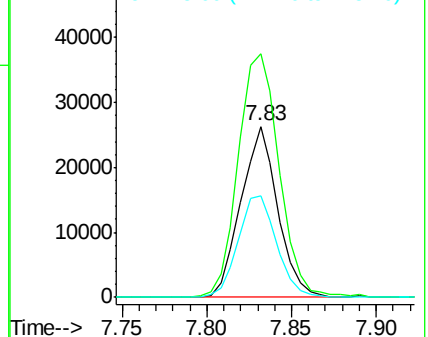
115 59.2 45.9 68.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.07 ng

RT: 3.37 min Scan# 132

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

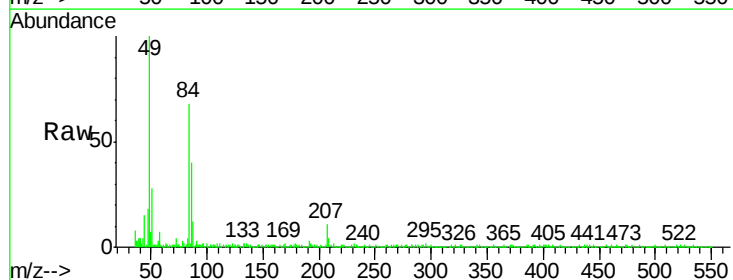
Tgt Ion: 88 Resp: 371

Ion Ratio Lower Upper

88 100

58 85.4 61.0 91.6

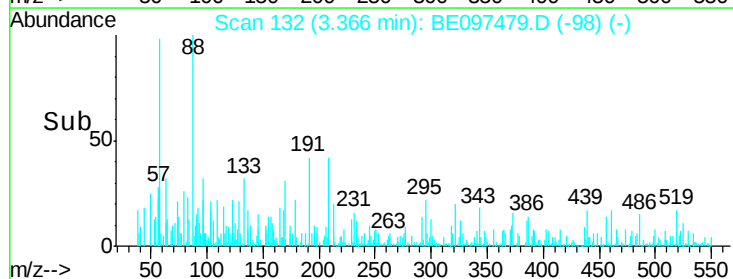
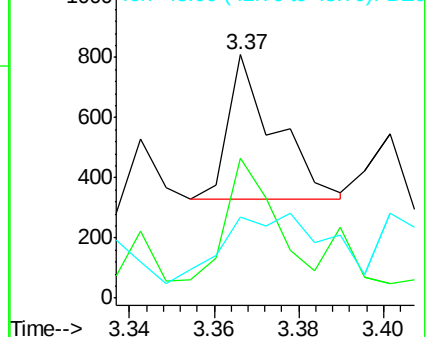
43 134.8 25.4 38.2#

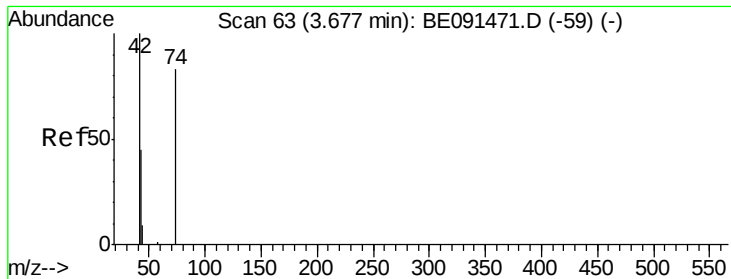


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.67 min Scan# 184

Delta R.T. -0.01 min

Lab File: BE097479.D

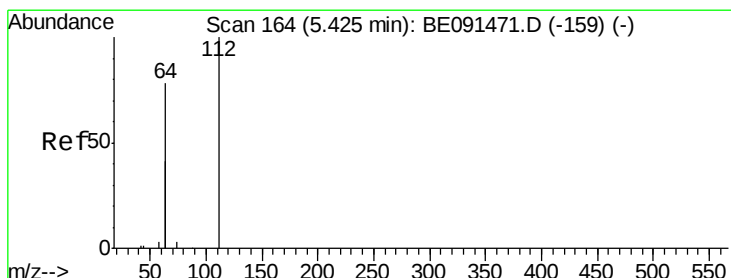
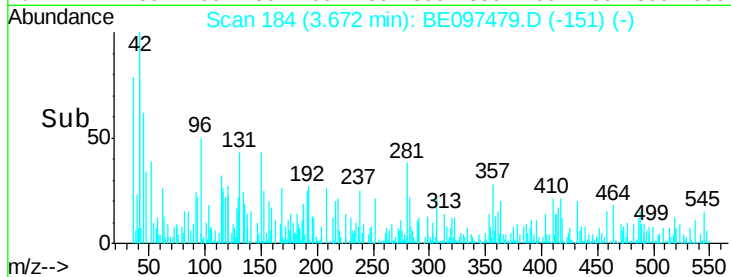
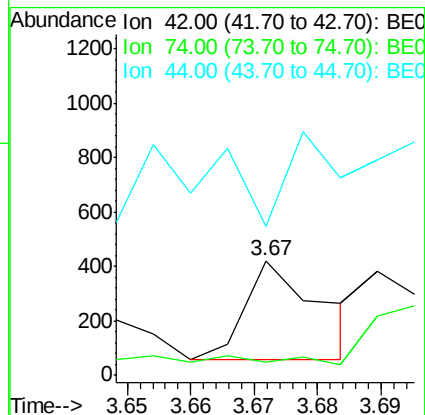
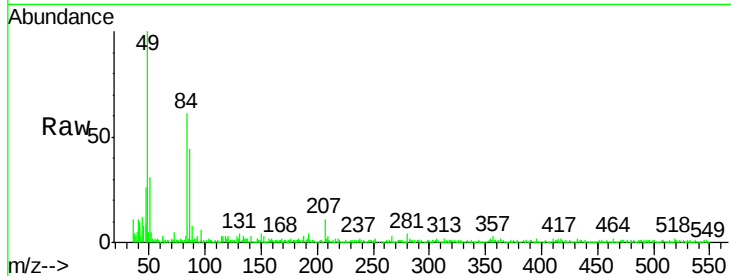
Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampled :

Tgt Ion:	42	Resp:	296
Ion	Ratio	Lower	Upper
42	100		
74	0.0	84.3	126.5#
44	279.1	6.7	10.1#



#4

2-Fluorophenol

Concen: 7.86 ng

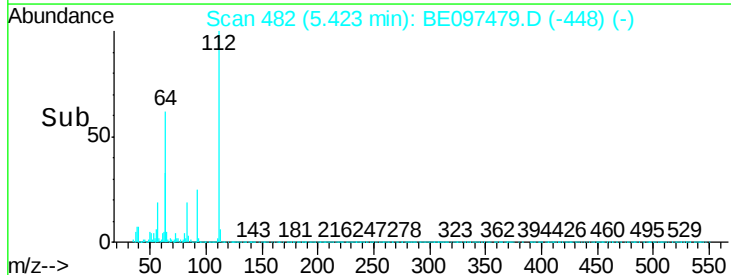
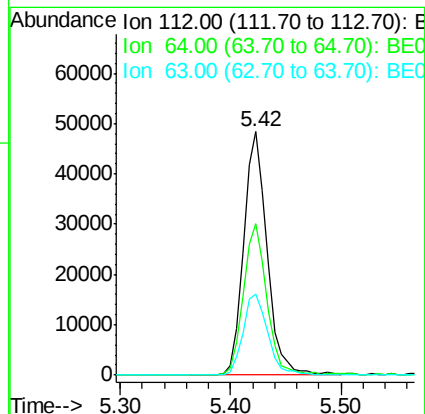
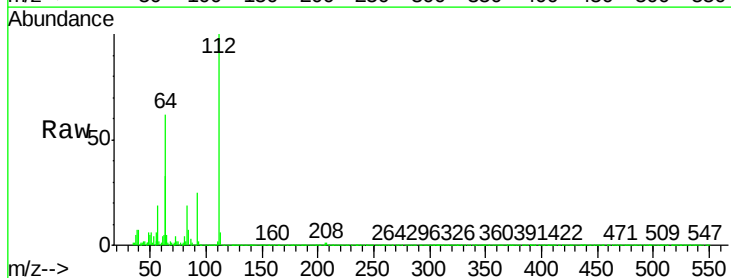
RT: 5.42 min Scan# 482

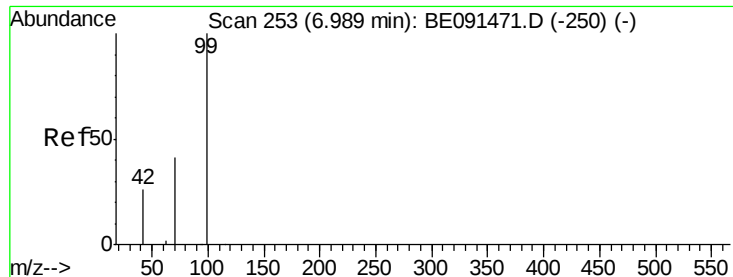
Delta R.T. -0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion:	112	Resp:	71998
Ion	Ratio	Lower	Upper
112	100		
64	61.8	53.3	79.9
63	34.9	29.8	44.8





#5

Phenol-d6

Concen: 7.38 ng

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

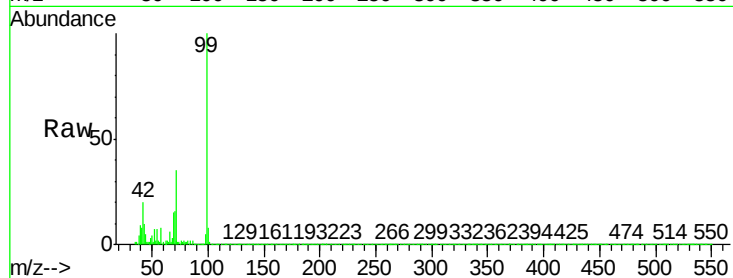
Tgt Ion: 99 Resp: 88312

Ion Ratio Lower Upper

99 100

42 21.0 20.6 30.8

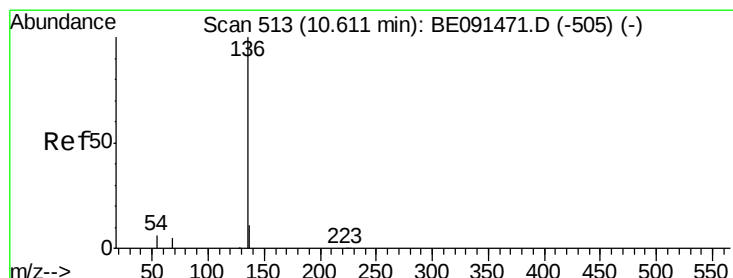
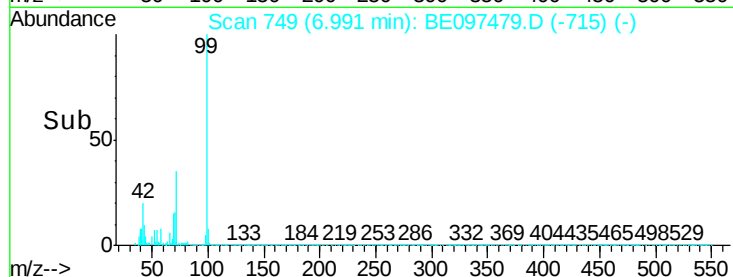
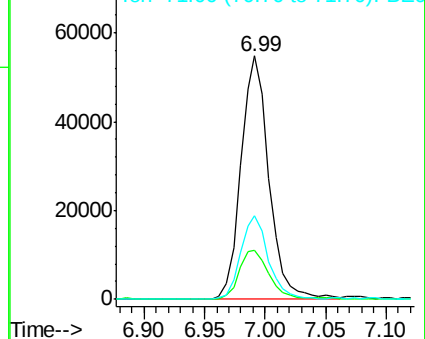
71 34.2 29.0 43.4



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: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion: 136 Resp: 171998

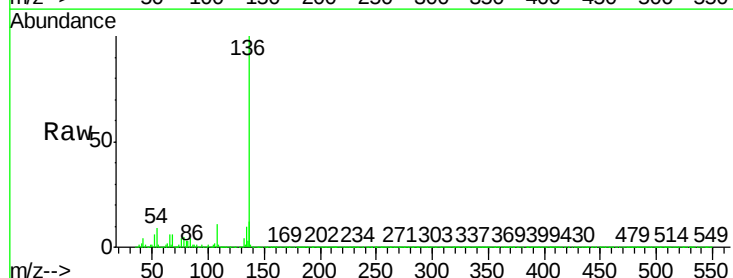
Ion Ratio Lower Upper

136 100

137 12.3 8.8 13.2

54 9.3 5.2 7.8#

68 6.1 4.1 6.1

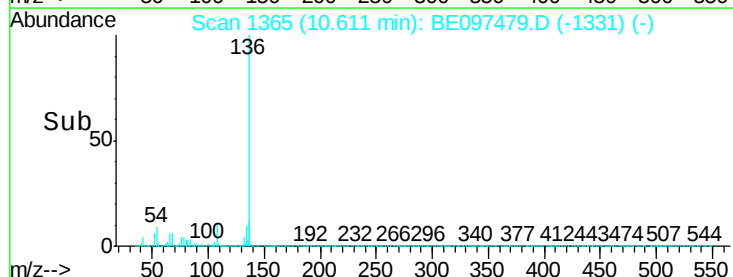
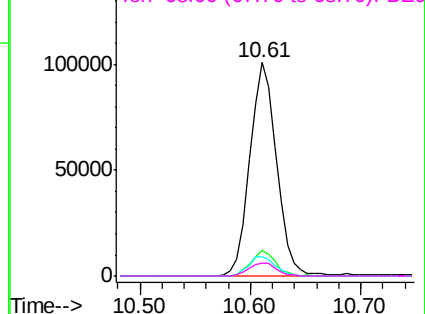


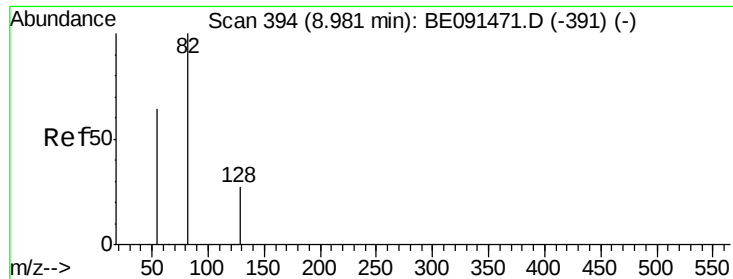
Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.36 ng

RT: 8.98 min Scan# 1087

Delta R.T. -0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

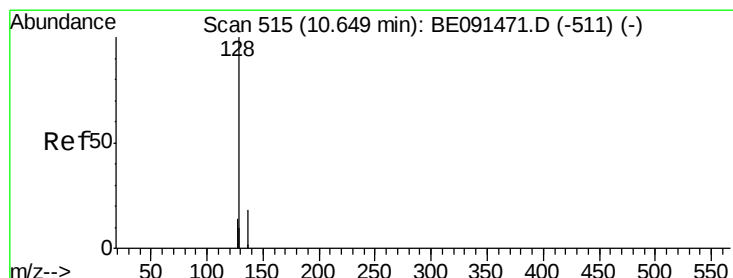
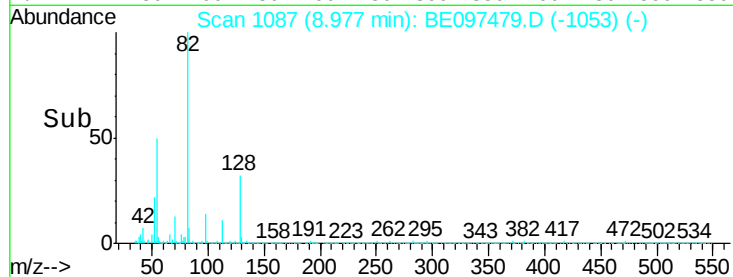
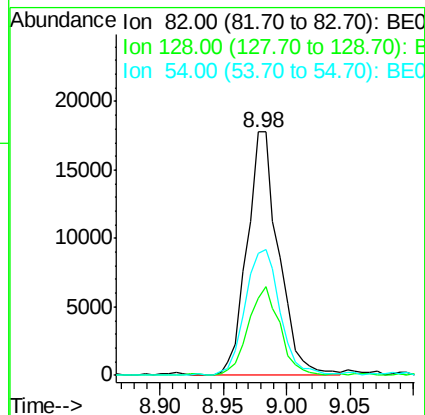
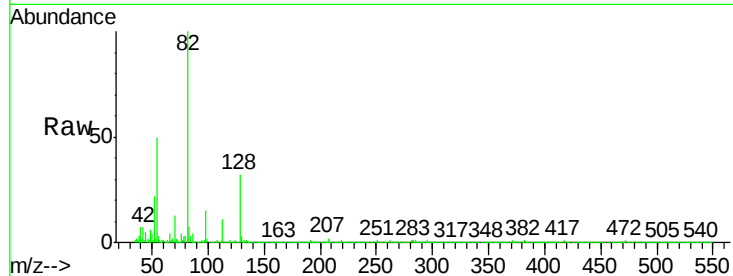
Instrument :

BNA_E

ClientSampleId :

Tgt Ion: 82 Resp: 30952

Ion	Ratio	Lower	Upper
82	100		
128	31.7	23.5	35.3
54	50.3	52.4	78.6#



#8

Naphthalene

Concen: 0.06 ng

RT: 10.66 min Scan# 1373

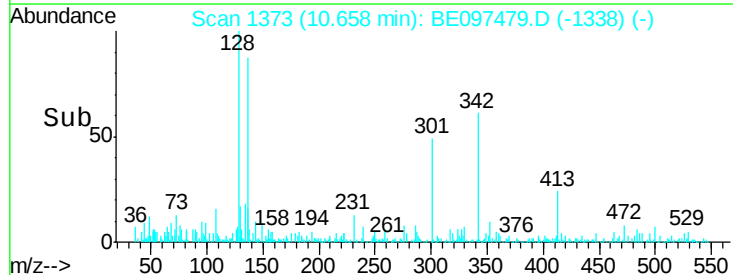
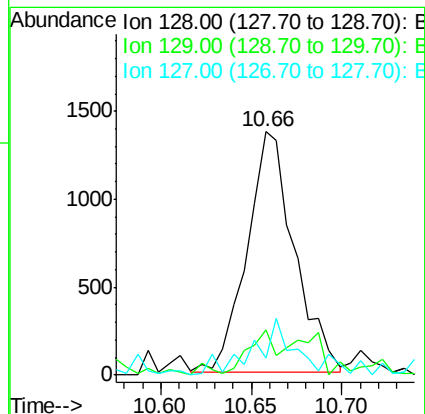
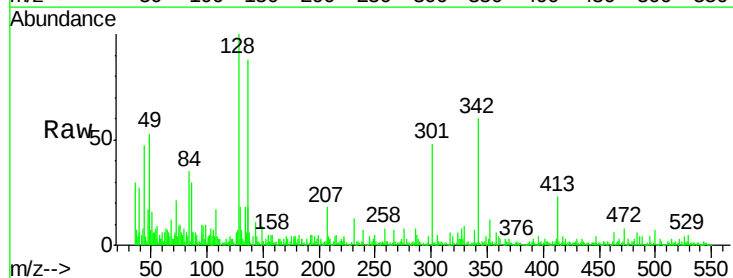
Delta R.T. 0.01 min

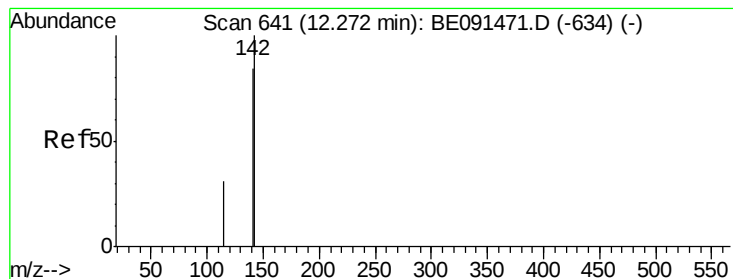
Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion: 128 Resp: 2479

Ion	Ratio	Lower	Upper
128	100		
129	18.3	8.2	12.2#
127	6.8	11.8	17.8#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.27 min Scan# 1647

Delta R.T. -0.00 min

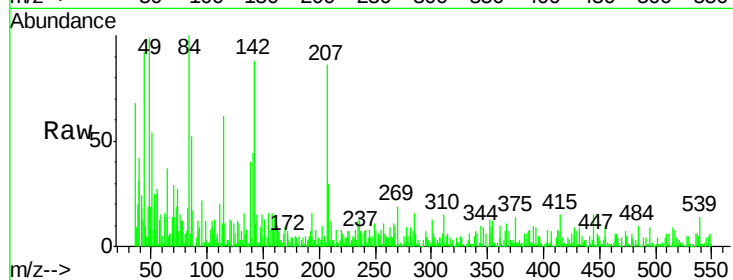
Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :



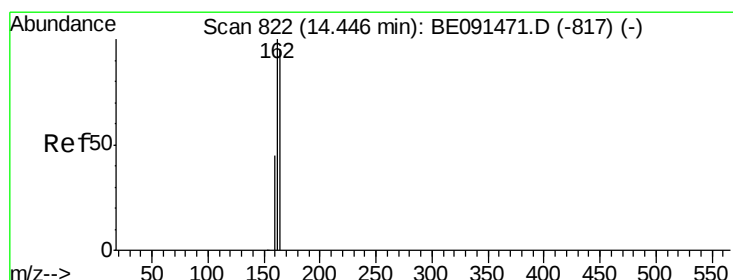
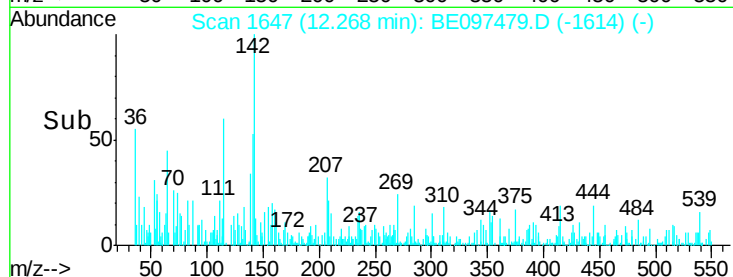
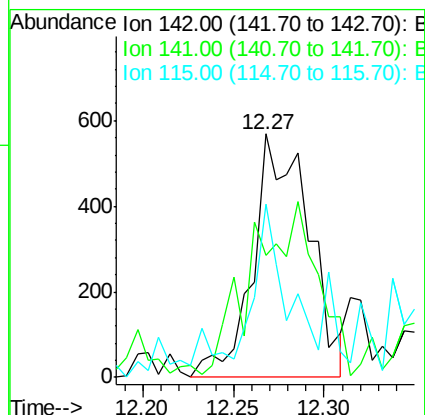
Tgt Ion:142 Resp: 1219

Ion Ratio Lower Upper

142 100

141 50.3 66.9 100.3#

115 71.0 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: BE097479.D

Acq: 17 Mar 2016 23:28

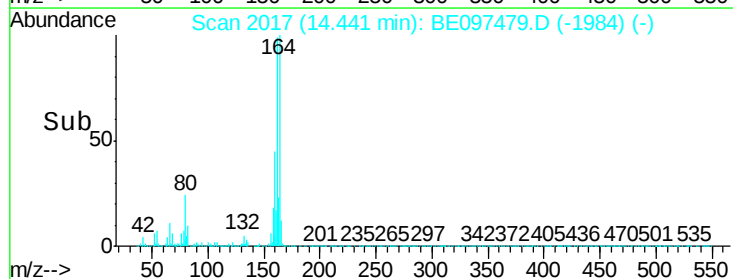
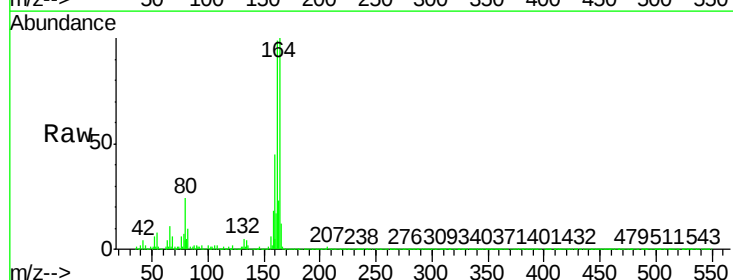
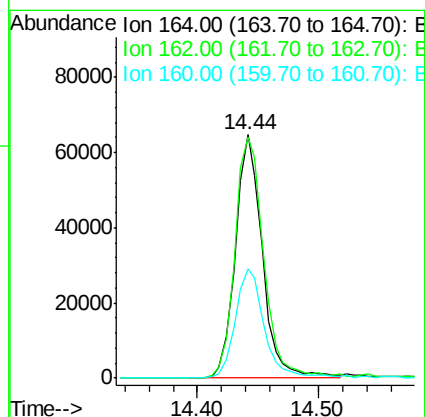
Tgt Ion:164 Resp: 100959

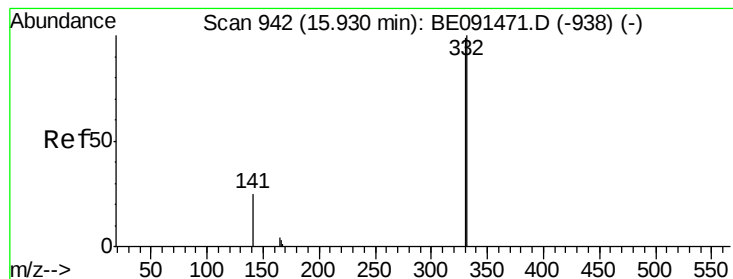
Ion Ratio Lower Upper

164 100

162 99.1 84.4 126.6

160 44.9 37.7 56.5

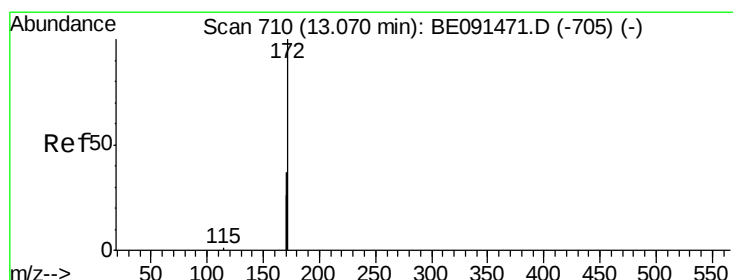
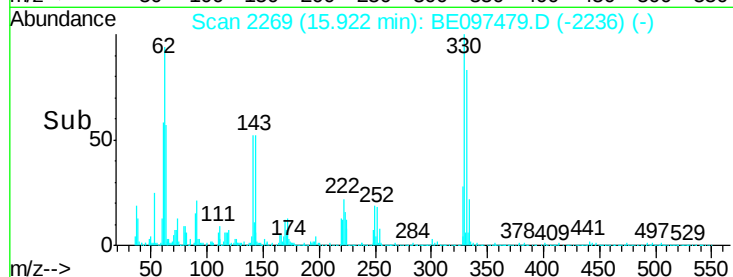
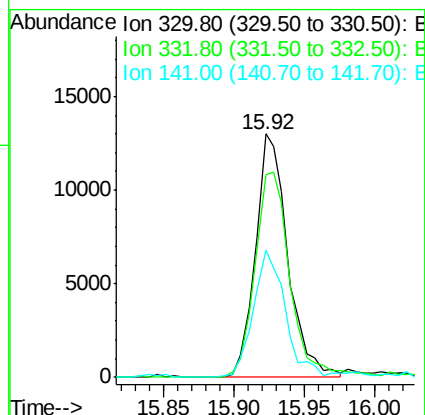
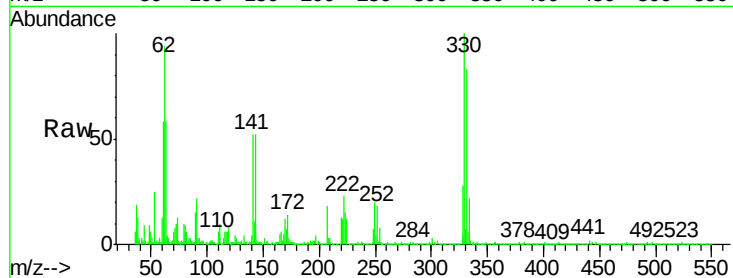




#11
 2,4,6-Tribromophenol
 Concen: 5.67 ng
 RT: 15.92 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: BE097479.D
 Acq: 17 Mar 2016 23:28

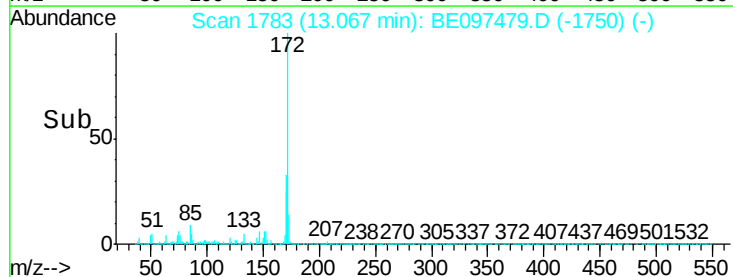
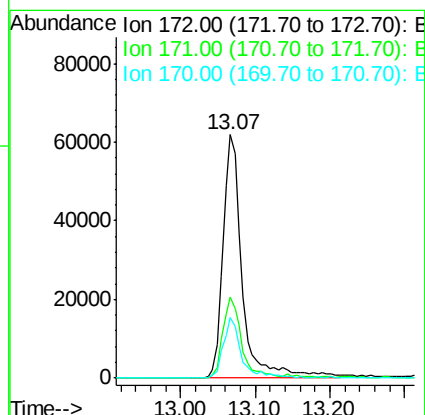
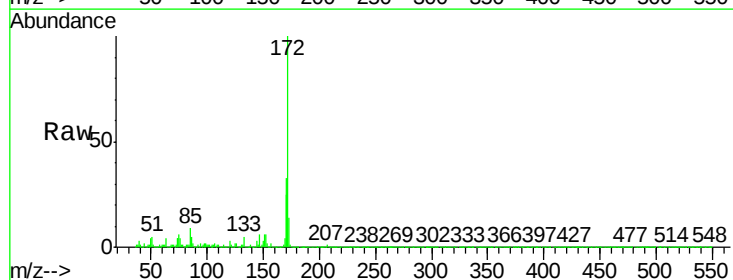
Instrument :
 BNA_E
 ClientSampleId :

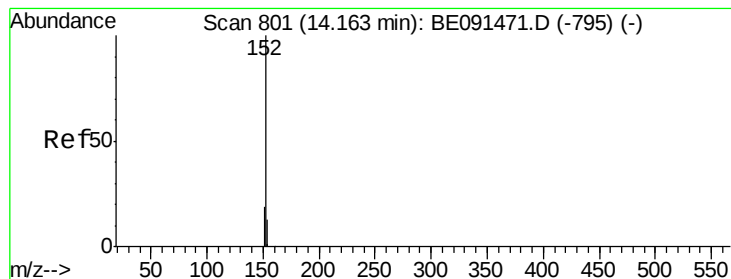
Tgt Ion:330 Resp: 20853
 Ion Ratio Lower Upper
 330 100
 332 91.6 79.2 118.8
 141 51.7 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 4.37 ng
 RT: 13.07 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: BE097479.D
 Acq: 17 Mar 2016 23:28

Tgt Ion:172 Resp: 110926
 Ion Ratio Lower Upper
 172 100
 171 33.1 29.8 44.8
 170 25.1 21.4 32.2





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.18 min Scan# 1972

Delta R.T. 0.02 min

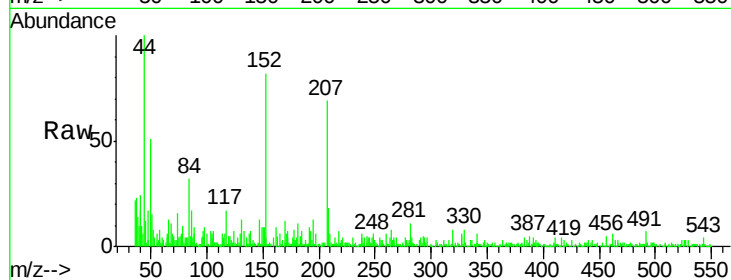
Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :



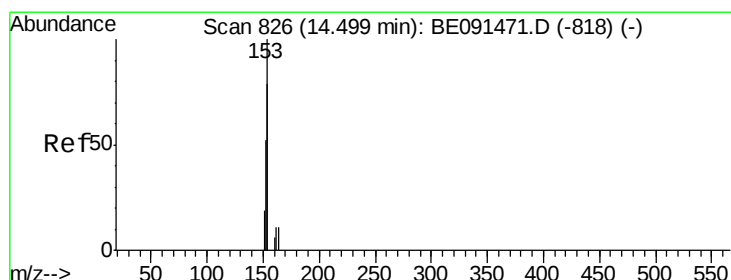
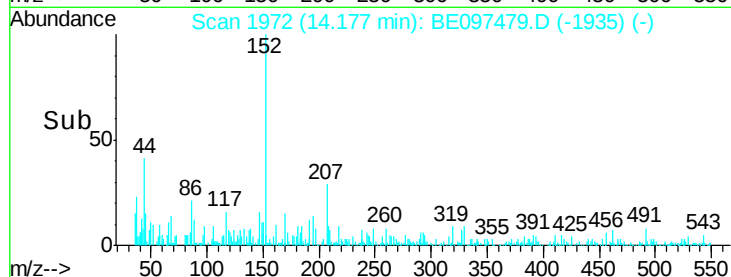
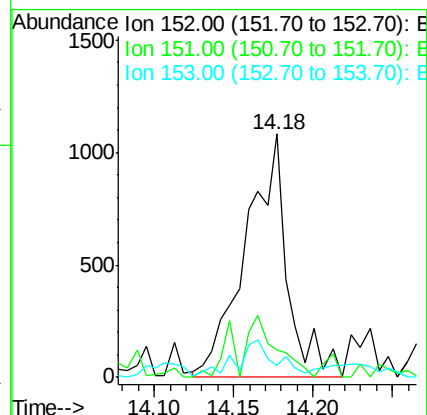
Tgt Ion:152 Resp: 1978

Ion Ratio Lower Upper

152 100

151 17.4 16.3 24.5

153 12.9 11.1 16.7



#14

Acenaphthene

Concen: 0.05 ng

RT: 14.51 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

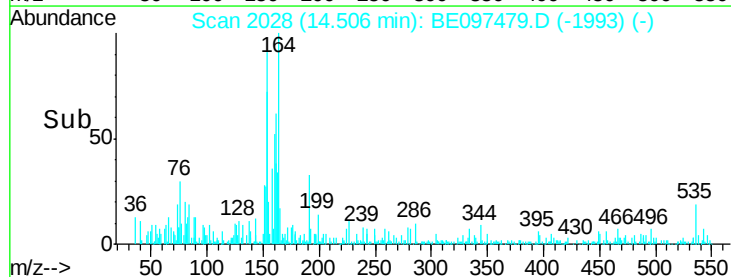
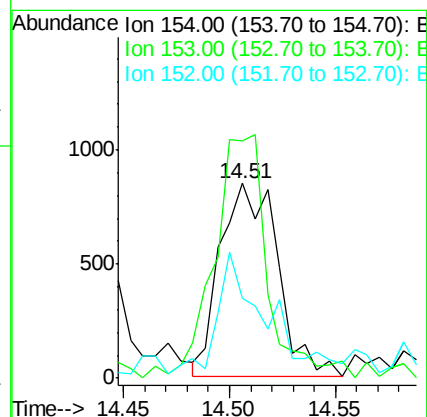
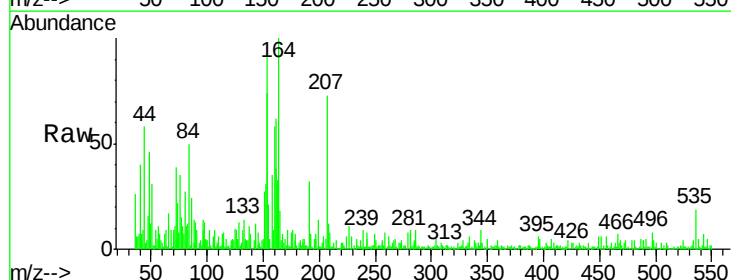
Tgt Ion:154 Resp: 1587

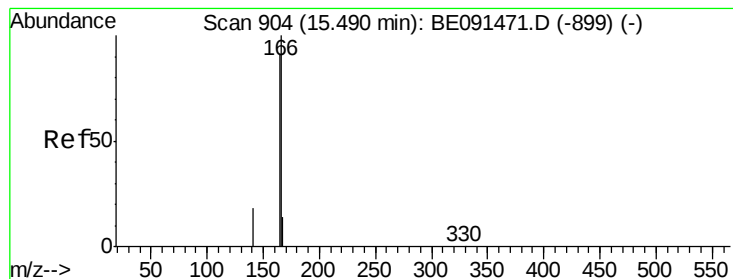
Ion Ratio Lower Upper

154 100

153 117.6 87.3 130.9

152 49.7 42.9 64.3





#15

Fluorene

Concen: 0.04 ng

RT: 15.49 min Scan# 2195

Delta R.T. -0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

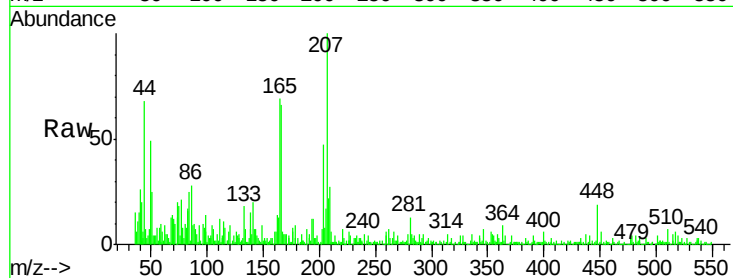
Tgt Ion:166 Resp: 1637

Ion Ratio Lower Upper

166 100

165 128.3 79.2 118.8#

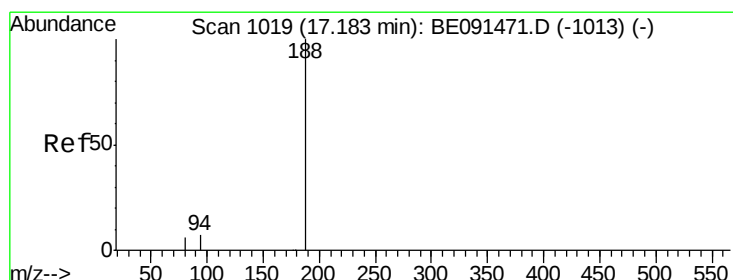
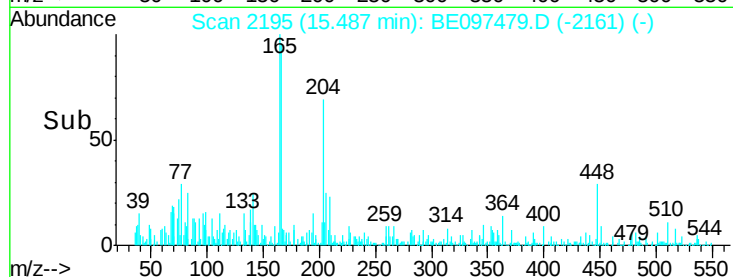
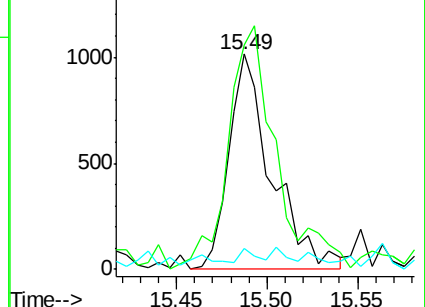
167 2.3 10.8 16.2#



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: 17.18 min Scan# 2483

Delta R.T. -0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

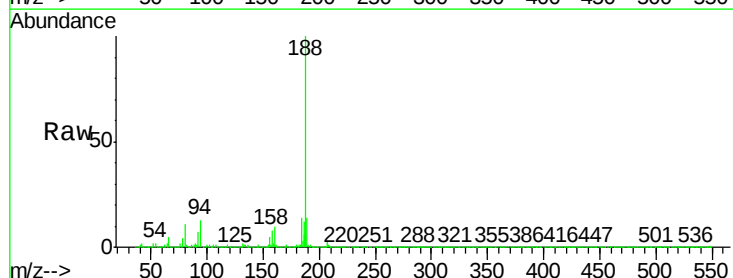
Tgt Ion:188 Resp: 263159

Ion Ratio Lower Upper

188 100

94 12.6 5.4 8.2#

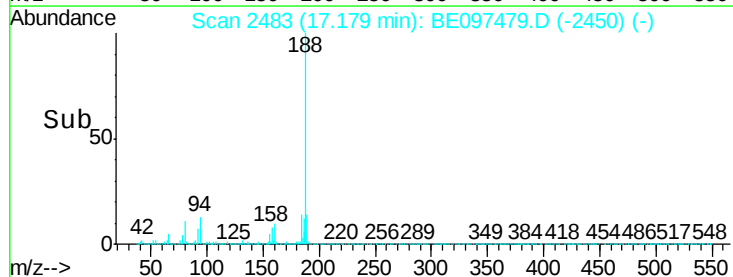
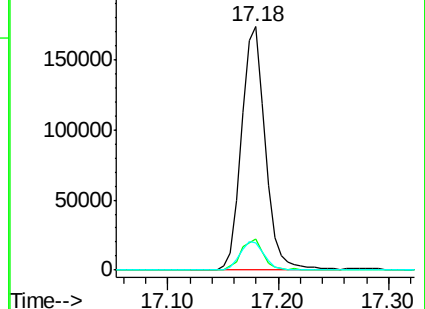
80 11.3 5.0 7.4#

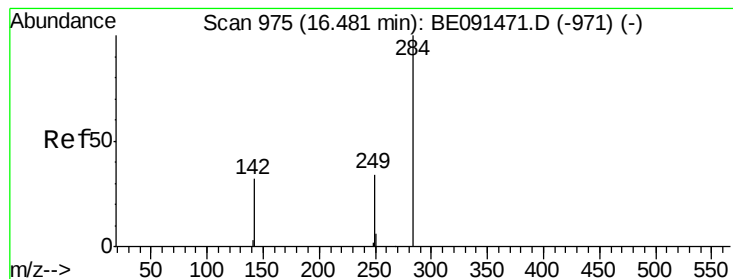


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#17

Hexachlorobenzene

Concen: 0.09 ng

RT: 16.49 min Scan# 2365

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

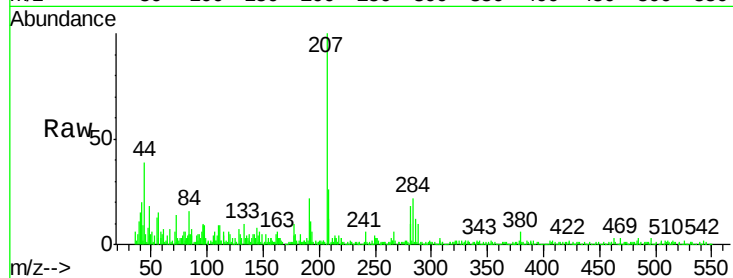
Tgt Ion:284 Resp: 978

Ion Ratio Lower Upper

284 100

142 42.7 31.0 46.4

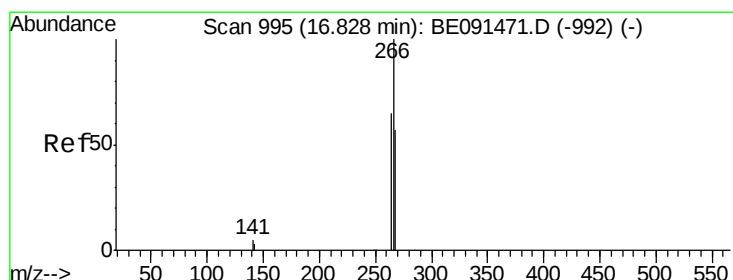
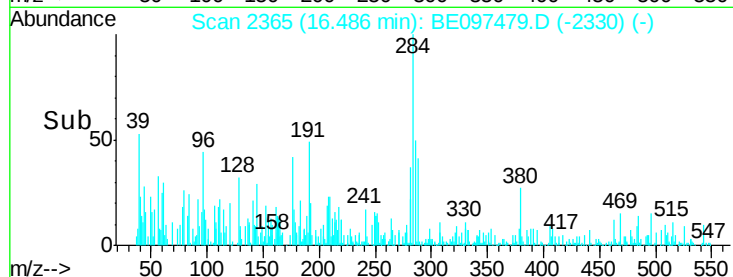
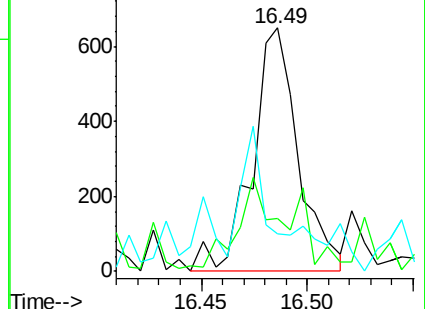
249 50.3 25.8 38.8#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#18

Pentachlorophenol

Concen: 0.32 ng

RT: 16.82 min Scan# 2422

Delta R.T. -0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

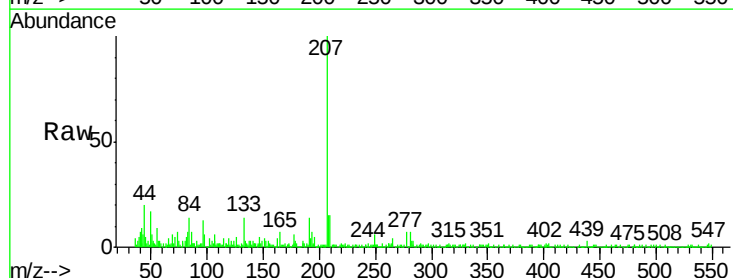
Tgt Ion:266 Resp: 119

Ion Ratio Lower Upper

266 100

268 6.3 48.2 72.2#

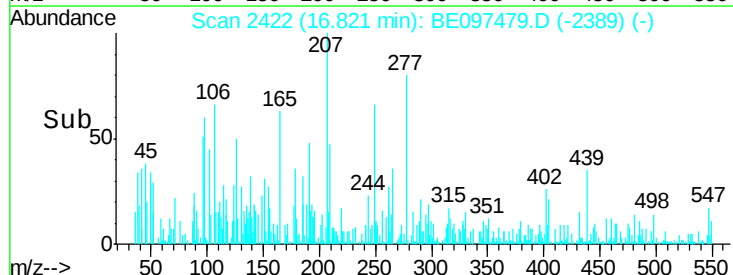
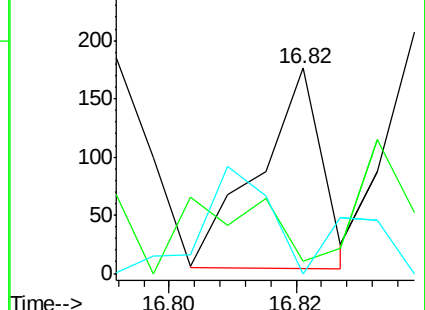
264 31.3 52.1 78.1#

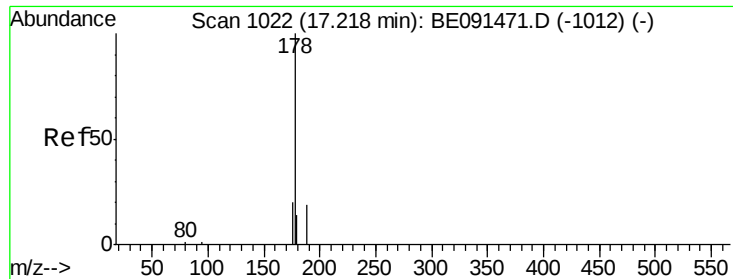


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 0.06 ng

RT: 17.21 min Scan# 2489

Delta R.T. -0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

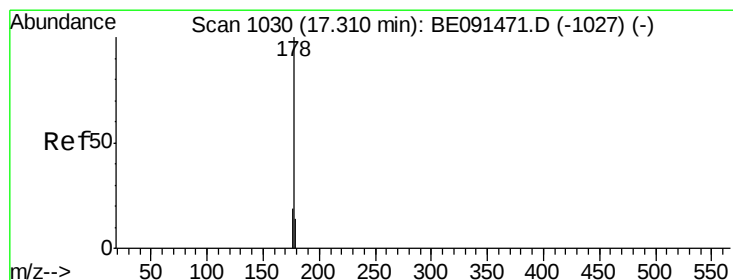
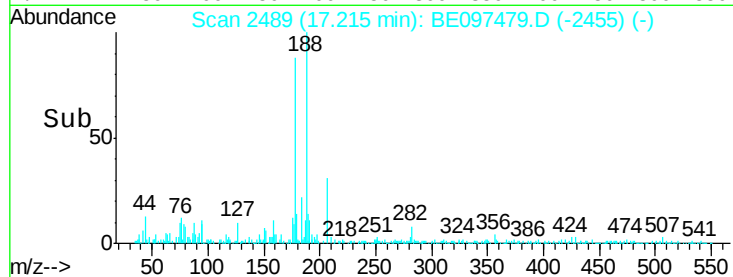
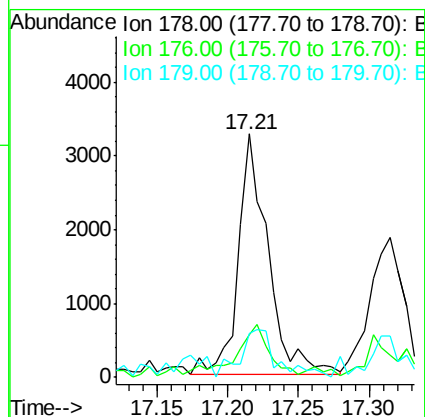
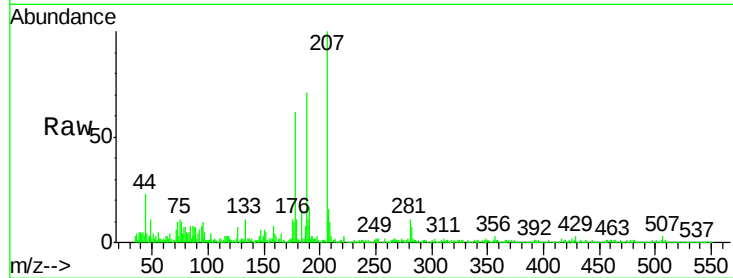
Tgt Ion:178 Resp: 4802

Ion Ratio Lower Upper

178 100

176 22.1 15.5 23.3

179 24.4 13.1 19.7#



#20

Anthracene

Concen: 0.05 ng

RT: 17.31 min Scan# 2506

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

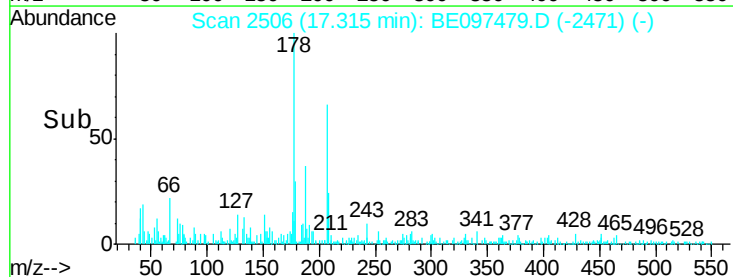
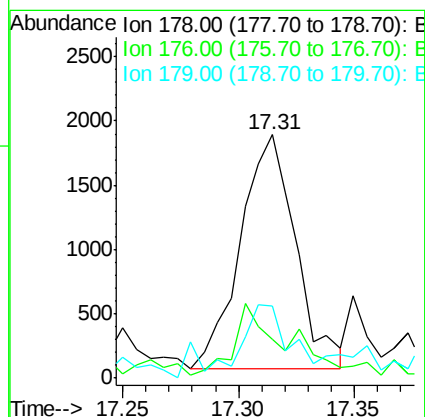
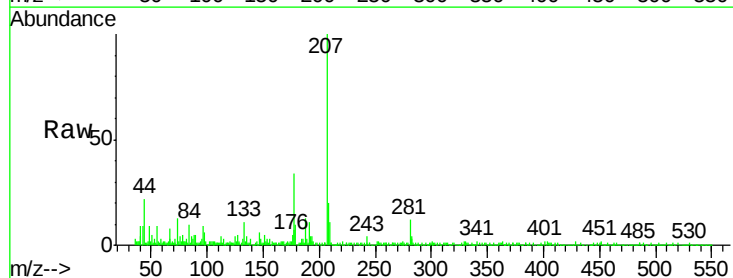
Tgt Ion:178 Resp: 3051

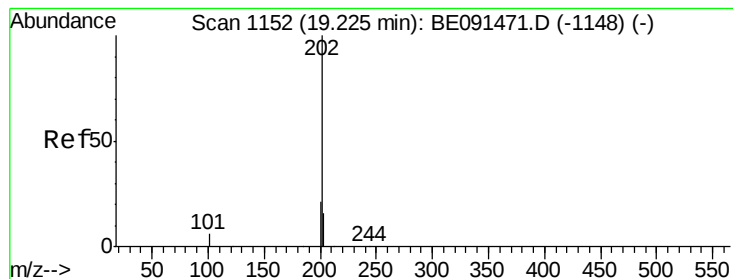
Ion Ratio Lower Upper

178 100

176 28.2 14.9 22.3#

179 25.3 12.2 18.4#





#21

Fluoranthene

Concen: 0.05 ng

RT: 19.23 min Scan# 2832

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

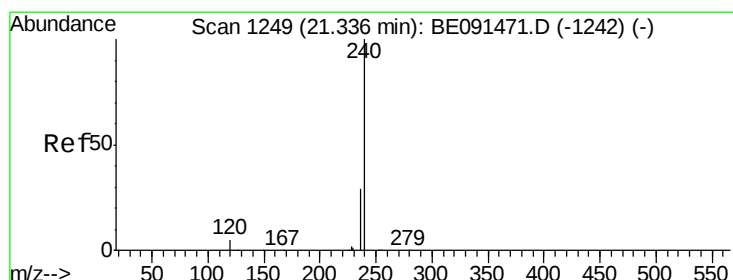
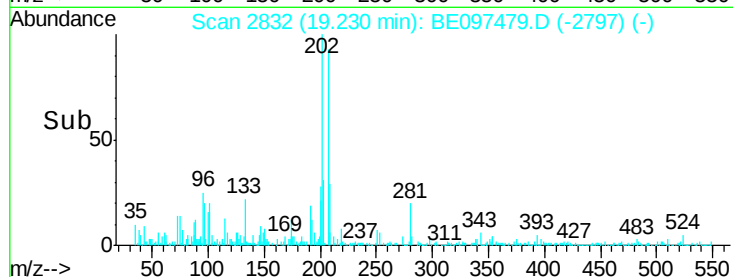
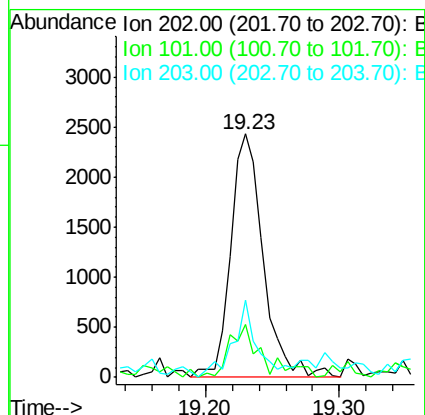
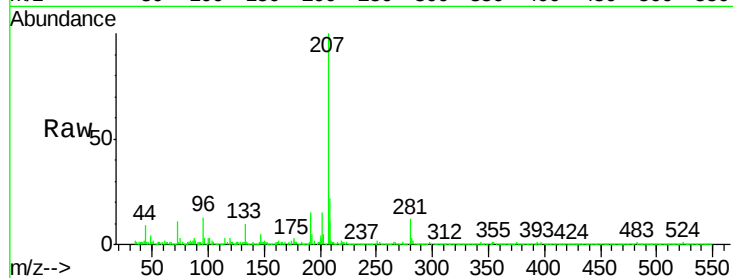
Tgt Ion:202 Resp: 4128

Ion Ratio Lower Upper

202 100

101 22.5 8.3 12.5#

203 21.5 13.9 20.9#



#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.34 min Scan# 3191

Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

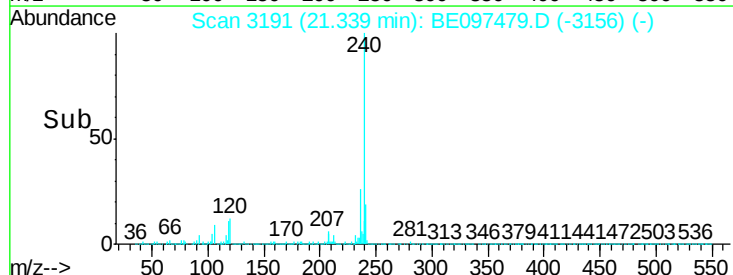
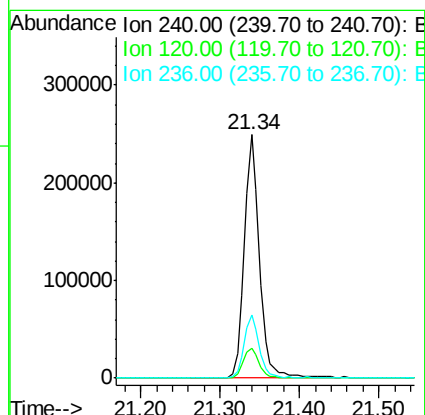
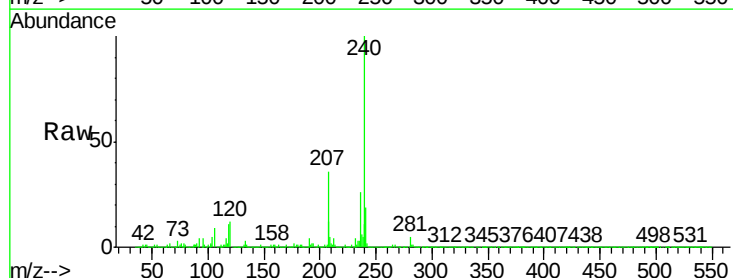
Tgt Ion:240 Resp: 329413

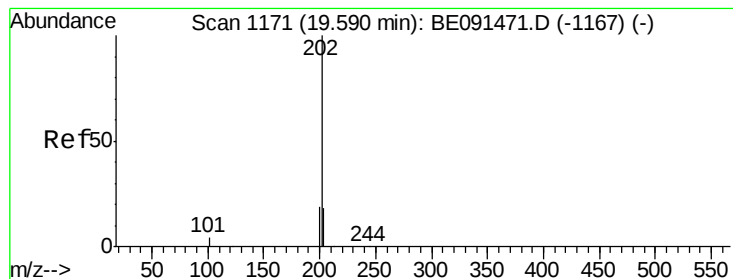
Ion Ratio Lower Upper

240 100

120 12.4 4.0 6.0#

236 25.9 23.0 34.4





#23

Pyrene

Concen: 0.05 ng

RT: 19.59 min Scan# 2894

Delta R.T. 0.00 min

Lab File: BE097479.D

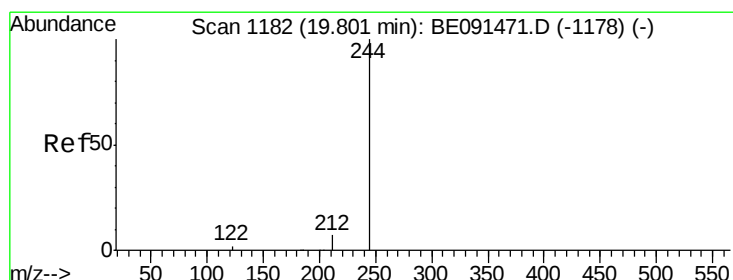
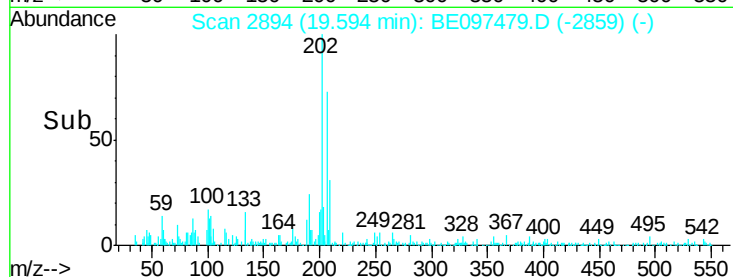
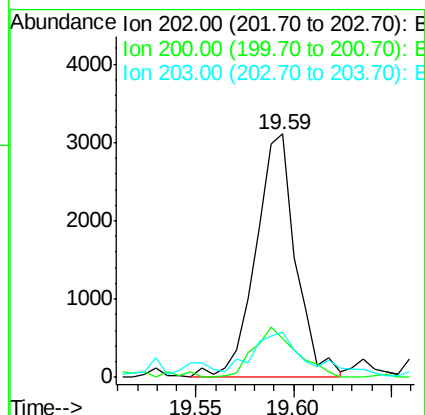
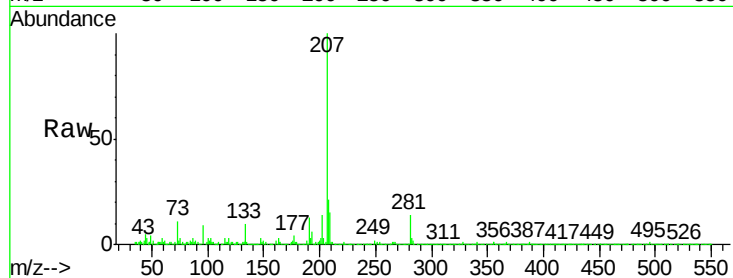
Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	202	Resp:	4407
Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.4	24.6
203	24.5	14.6	21.8#



#24

Terphenyl-d14

Concen: 4.94 ng

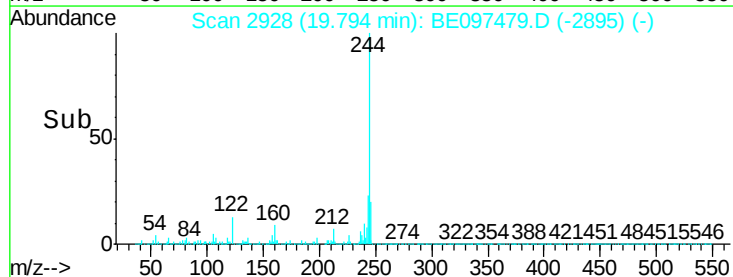
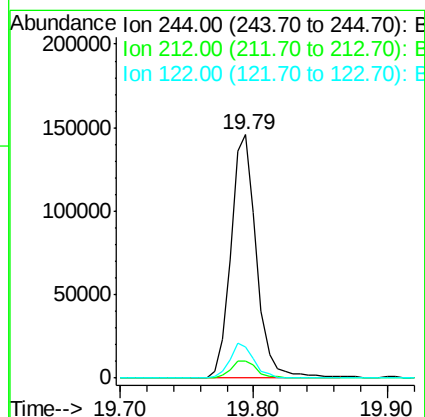
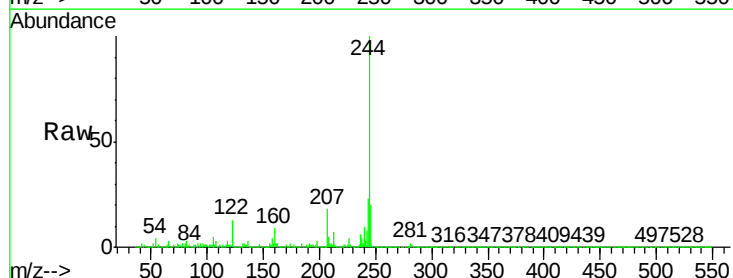
RT: 19.79 min Scan# 2928

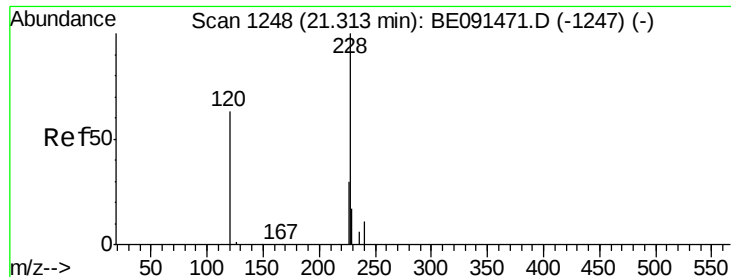
Delta R.T. -0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion:	244	Resp:	195910
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	13.0	1.8	2.8#





#25

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.37 min Scan# 3197

Delta R.T. 0.06 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampled :

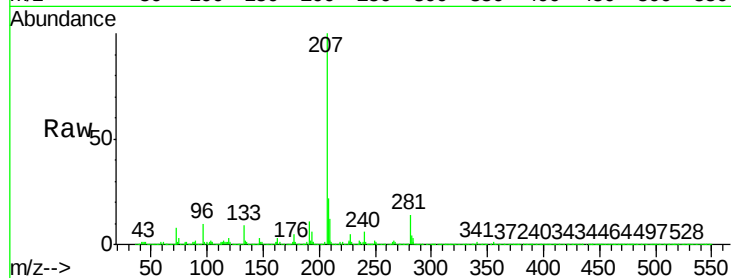
Tgt Ion:228 Resp: 7294

Ion Ratio Lower Upper

228 100

226 35.8 24.0 36.0

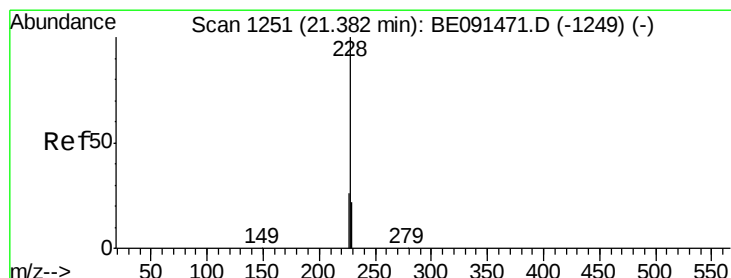
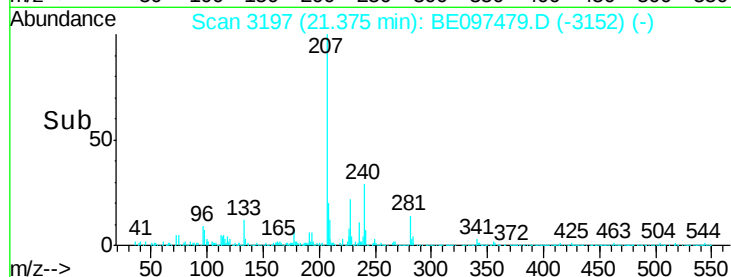
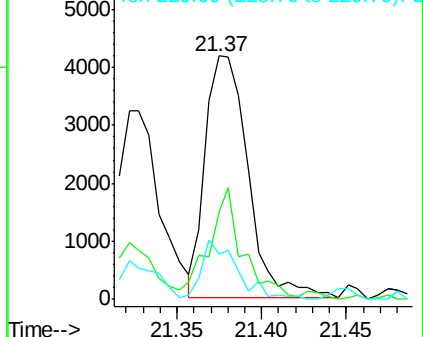
229 18.6 13.8 20.6



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



#26

Chrysene

Concen: Below Cal

RT: 21.37 min Scan# 3197

Delta R.T. -0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

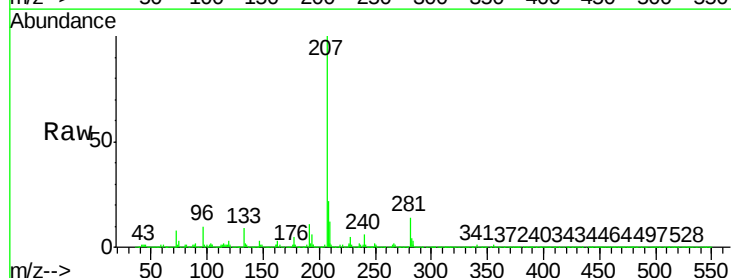
Tgt Ion:228 Resp: 7294

Ion Ratio Lower Upper

228 100

226 35.8 18.9 28.3#

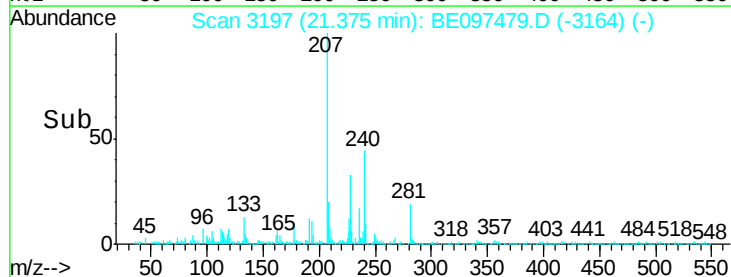
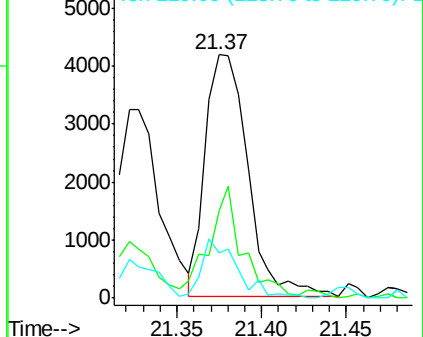
229 18.6 19.1 28.7#

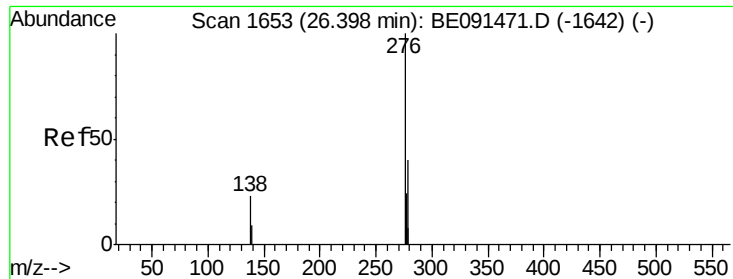


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#27

Indeno(1,2,3-cd)pyrene

Concen: 0.02 ng

RT: 26.39 min Scan# 4051

Delta R.T. -0.01 min

Lab File: BE097479.D

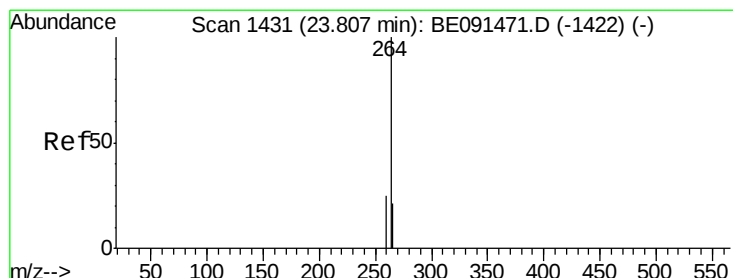
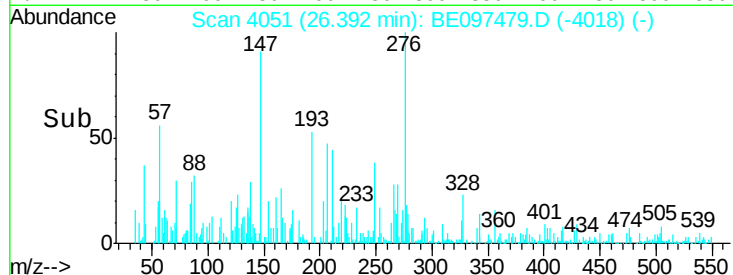
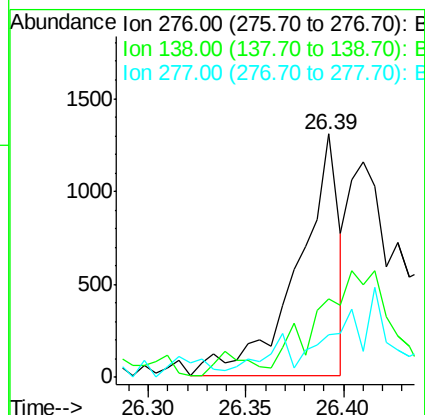
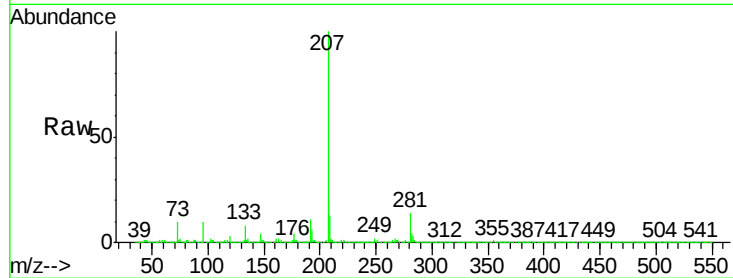
Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	276	Resp:	1915
Ion Ratio	Lower	Upper	
276	100		
138	65.1	20.2	30.4#
277	23.8	19.8	29.8



#28

Perylene-d12

Concen: 5.00 ng

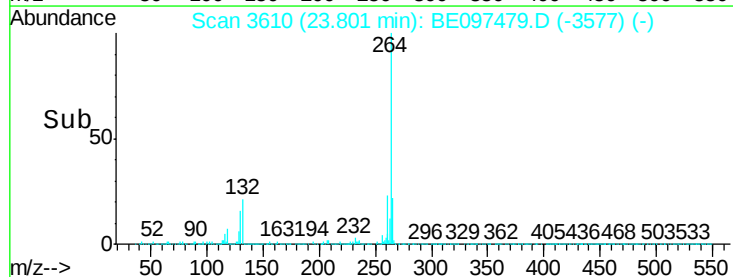
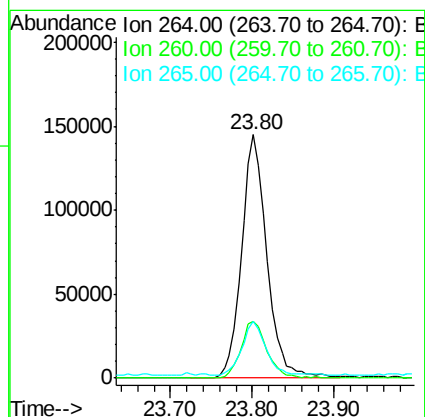
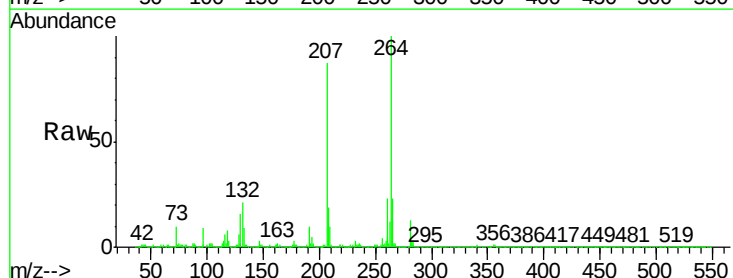
RT: 23.80 min Scan# 3610

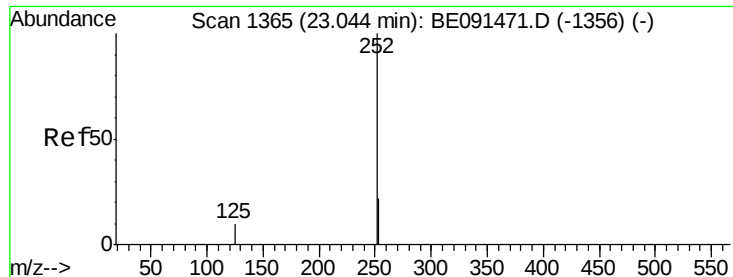
Delta R.T. -0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion:	264	Resp:	311571
Ion Ratio	Lower	Upper	
264	100		
260	23.2	20.1	30.1
265	23.1	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.06 ng

RT: 23.05 min Scan# 3482

Delta R.T. 0.01 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

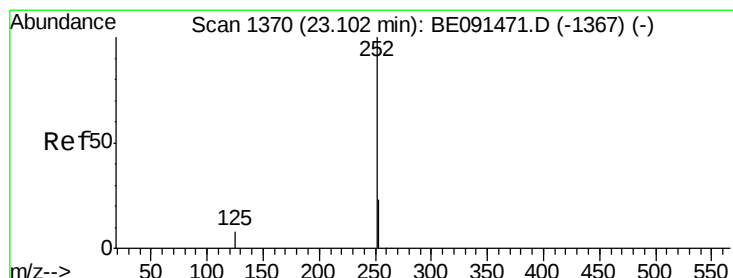
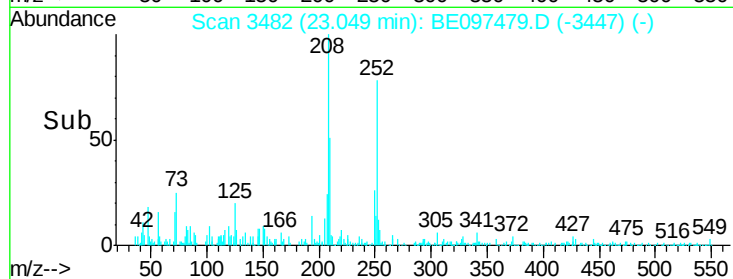
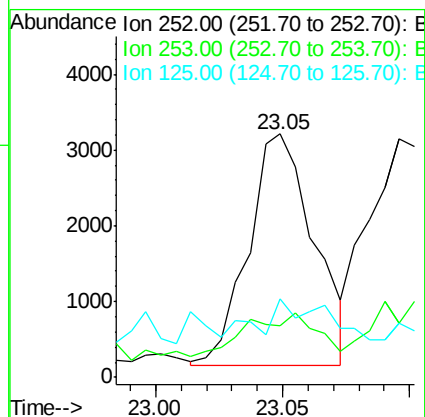
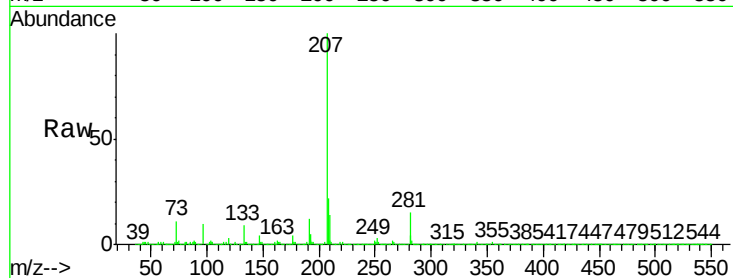
Instrument :

BNA_E

ClientSampleId :

Tgt Ion:252 Resp: 5473

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.7	28.1
125	32.1	9.8	14.6#



#30

Benzo(k)fluoranthene

Concen: 0.06 ng

RT: 23.10 min Scan# 3490

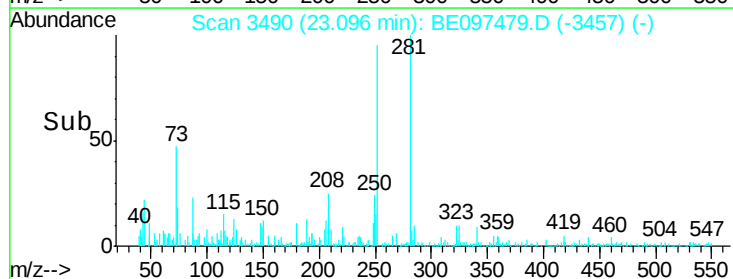
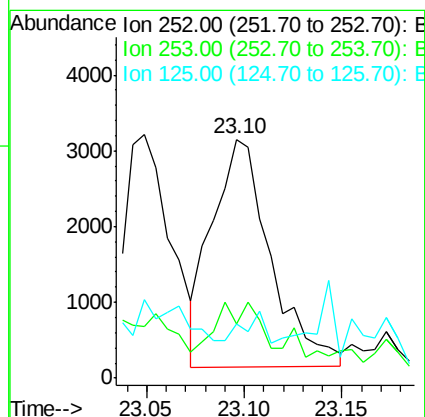
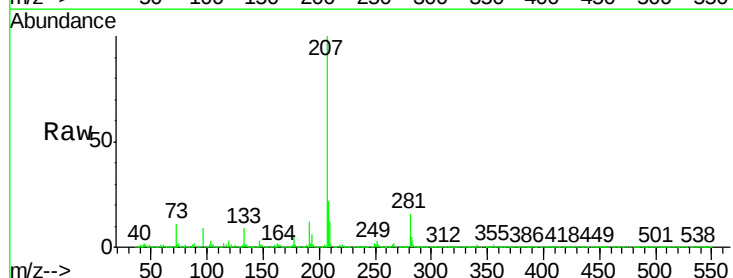
Delta R.T. -0.01 min

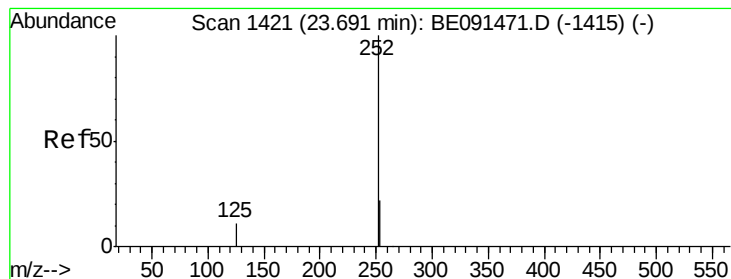
Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion:252 Resp: 6254

Ion	Ratio	Lower	Upper
252	100		
253	22.7	20.2	30.4
125	35.9	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.69 min Scan# 3591

Delta R.T. -0.00 min

Lab File: BE097479.D

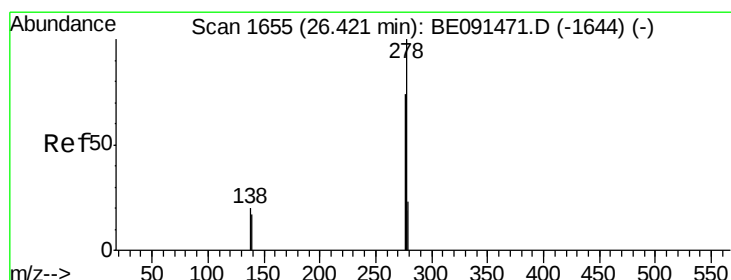
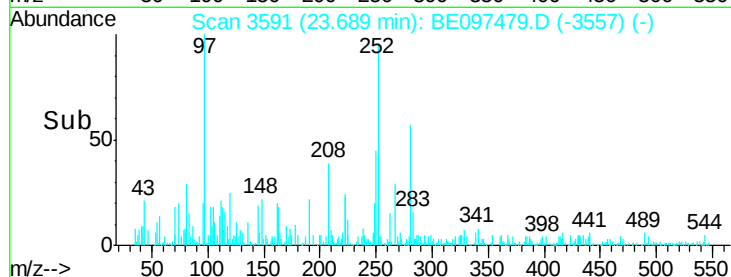
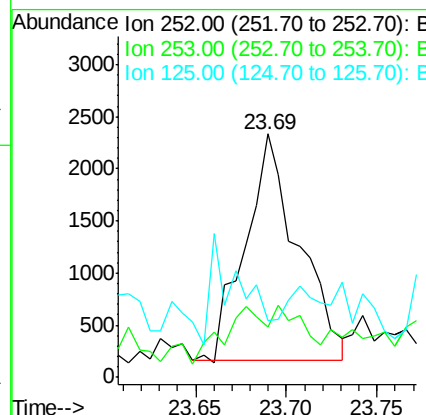
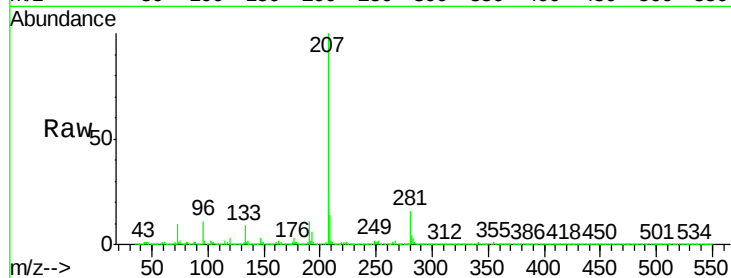
Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	4391
Ion Ratio	Lower	Upper	
252	100		
253	20.8	19.4	29.0
125	23.4	11.4	17.2#



#32

Dibenzo(a,h)anthracene

Concen: 0.02 ng

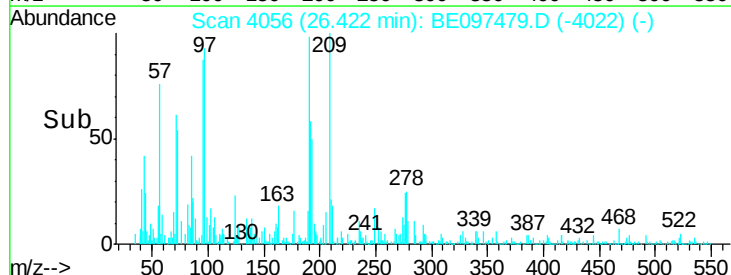
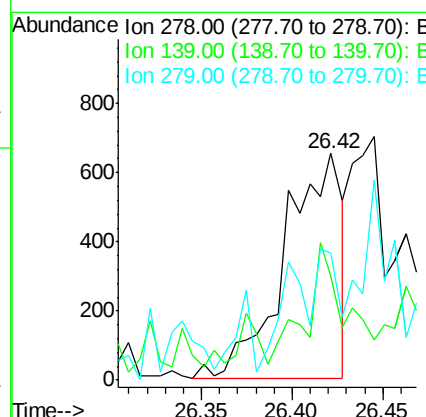
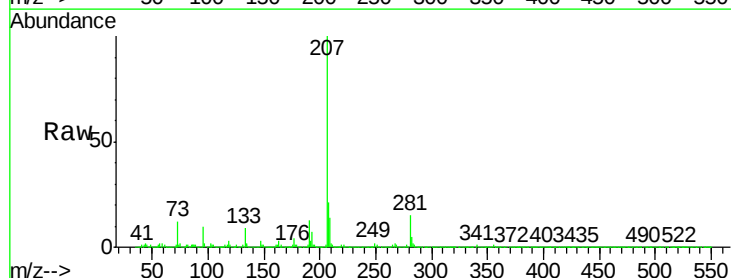
RT: 26.42 min Scan# 4056

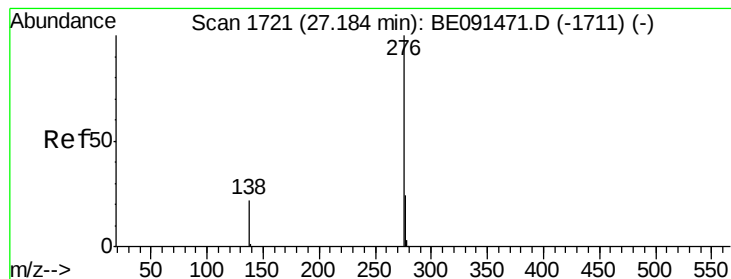
Delta R.T. 0.00 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Tgt Ion:	278	Resp:	1433
Ion Ratio	Lower	Upper	
278	100		
139	57.1	14.2	21.4#
279	56.3	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.20 min Scan# 4189

Delta R.T. 0.02 min

Lab File: BE097479.D

Acq: 17 Mar 2016 23:28

Instrument :

BNA_E

ClientSampleId :

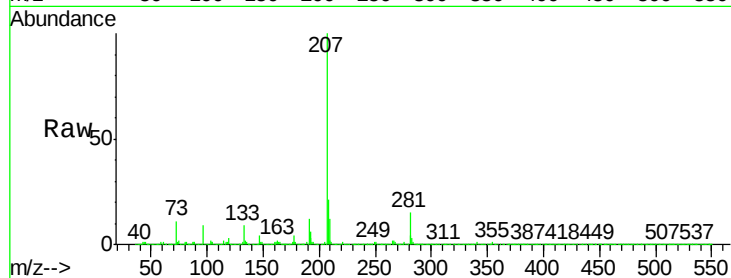
Tgt Ion: 276 Resp: 3620

Ion Ratio Lower Upper

276 100

277 12.6 19.4 29.2#

138 28.9 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

