

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091584.D
 Acq On : 31 Mar 2016 14:43
 Operator : UM/SJ
 Sample : H1824-06
 Misc : LOO WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:45:45 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	33198	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	156161	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	94530	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	233909	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	342360	5.00	ng	-0.02
28) Perylene-d12	23.76	264	278005	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	62992	7.25	ng	-0.01
5) Phenol-d6	6.97	99	91382	7.77	ng	-0.02
7) Nitrobenzene-d5	8.96	82	41666	3.97	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	31038	7.41	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	115653	4.30	ng	-0.02
24) Terphenyl-d14	19.78	244	187224	4.31	ng	0.00

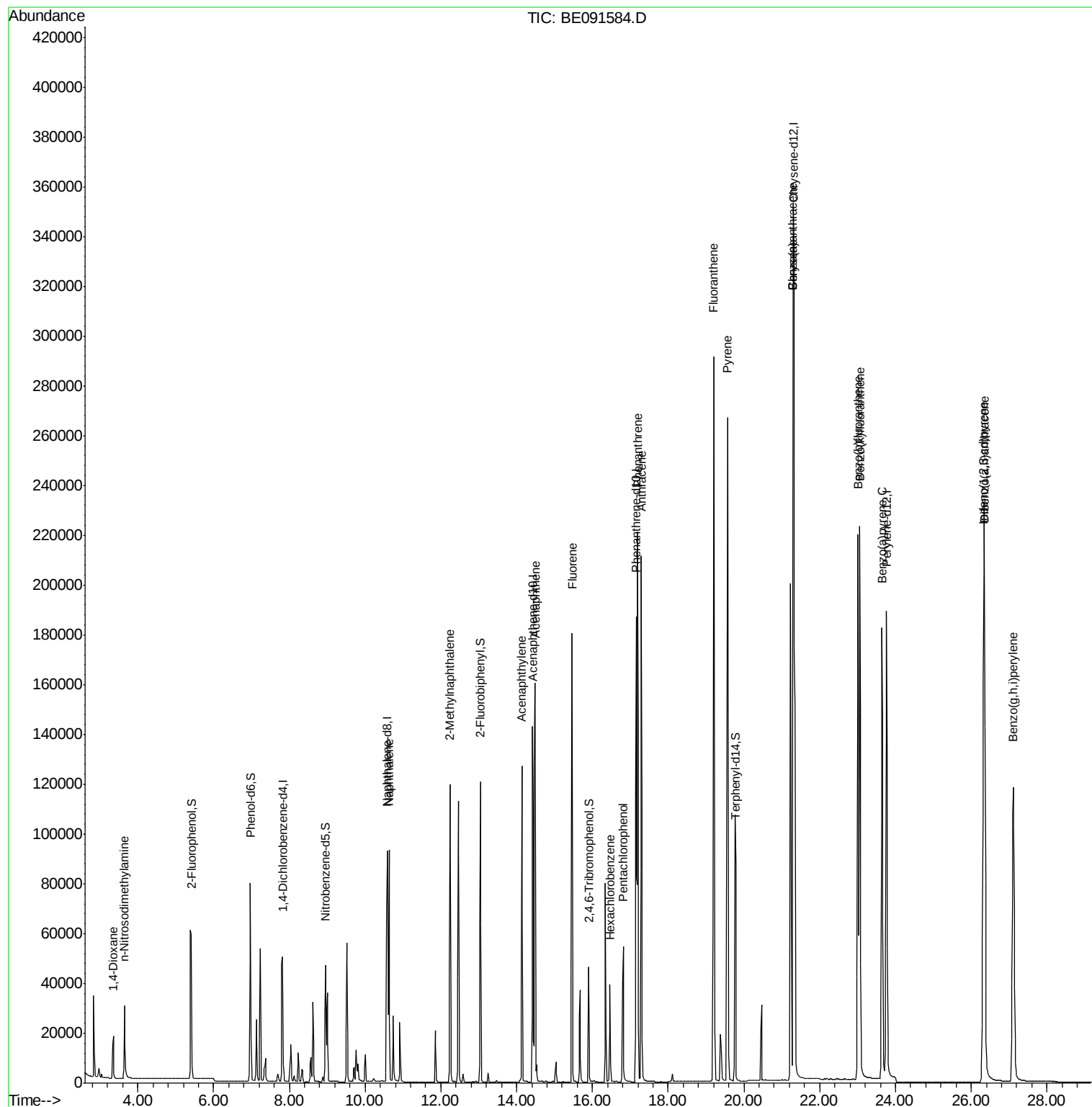
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.35	88	14598	3.73	ng	91
3) n-Nitrosodimethylamine	3.65	42	22305	3.70	ng	99
8) Naphthalene	10.63	128	126479	3.92	ng	96
9) 2-Methylnaphthalene	12.24	142	90452	4.29	ng	# 87
13) Acenaphthylene	14.13	152	158629	4.16	ng	100
14) Acenaphthene	14.49	154	103165	4.41	ng	95
15) Fluorene	15.47	166	129434	4.30	ng	100
17) Hexachlorobenzene	16.46	284	37749	4.39	ng	99
18) Pentachlorophenol	16.81	266	45716	9.46	ng	# 83
19) Phenanthrene	17.19	178	238597	4.36	ng	99
20) Anthracene	17.29	178	227274	4.50	ng	99
21) Fluoranthene	19.21	202	289384	4.48	ng	99
23) Pvrene	19.57	202	299742	4.29	ng	99
25) Benzo(a)anthracene	21.29	228	627201	7.80	ng	100
26) Chrysene	21.29	228	629501	9.15	ng	# 87
27) Indeno(1,2,3-cd)pyrene	26.33	276	340418	4.30	ng	99
29) Benzo(b)fluoranthene	23.01	252	314066	4.66	ng	98
30) Benzo(k)fluoranthene	23.06	252	300320	4.60	ng	94
31) Benzo(a)pvrene	23.65	252	295502	4.79	ng	# 94
32) Dibenzo(a,h)anthracene	26.35	278	284179	4.70	ng	98
33) Benzo(g,h,i)perylene	27.11	276	285011	4.61	ng	99

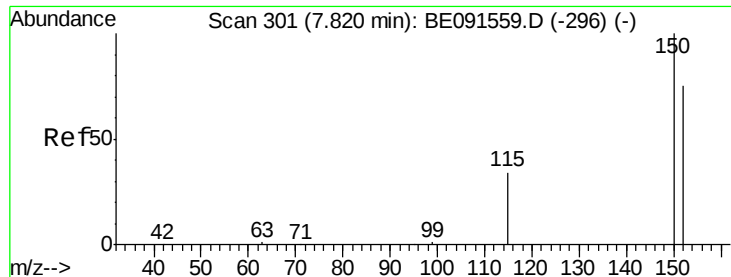
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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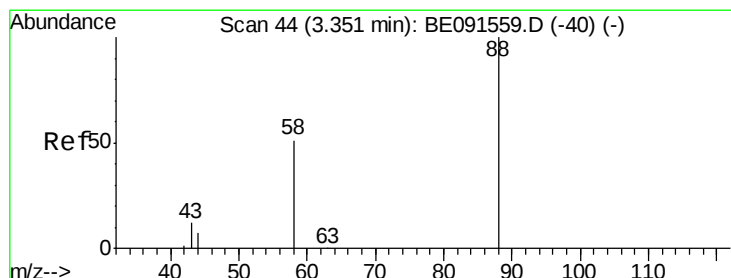
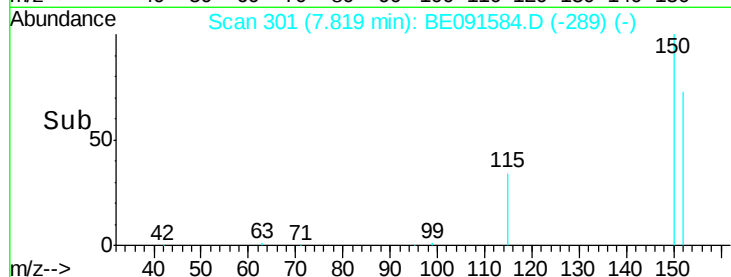
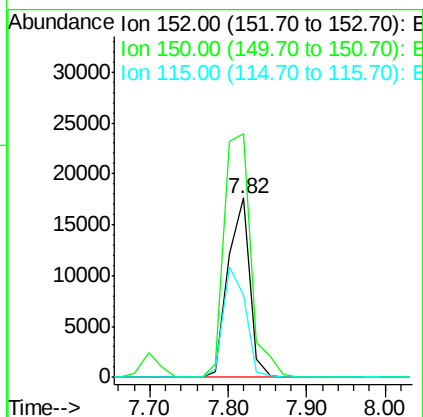
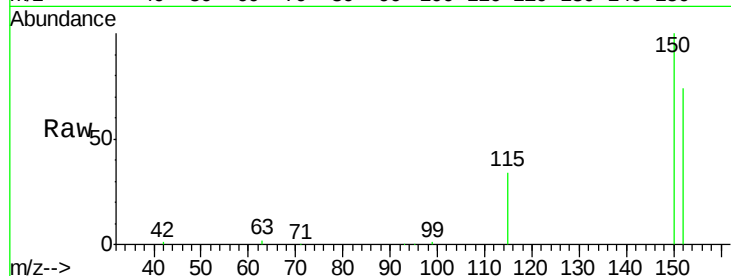


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. -0.00 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :

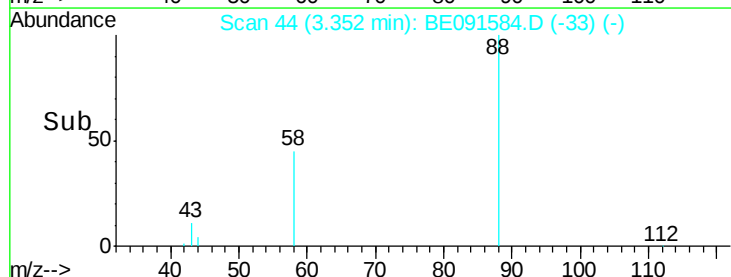
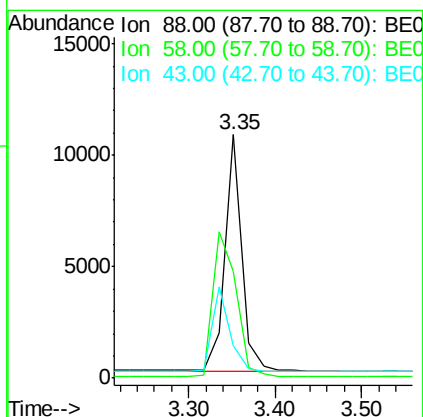
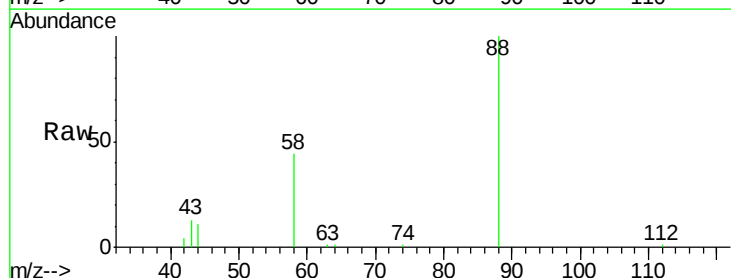
Tot Ion:152 Resp: 33198
Ion Ratio Lower Upper
152 100
150 136.0 122.2 183.2
115 46.1 45.9 68.9

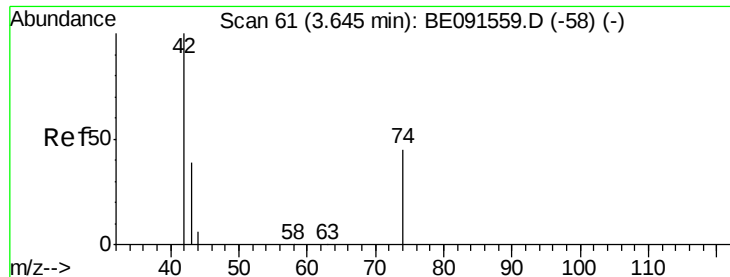


#2

1,4-Dioxane
Concen: 3.73 ng
RT: 3.35 min Scan# 44
Delta R.T. -0.01 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion: 88 Resp: 14598
Ion Ratio Lower Upper
88 100
58 84.1 61.0 91.6
43 37.5 25.4 38.2



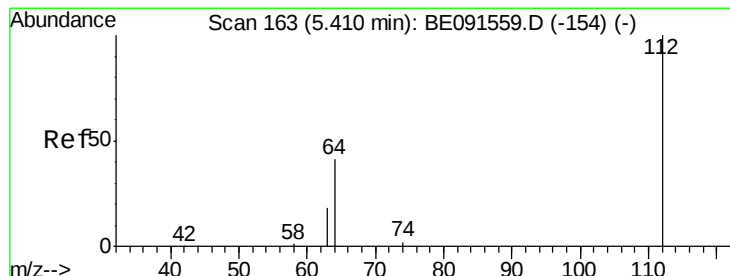
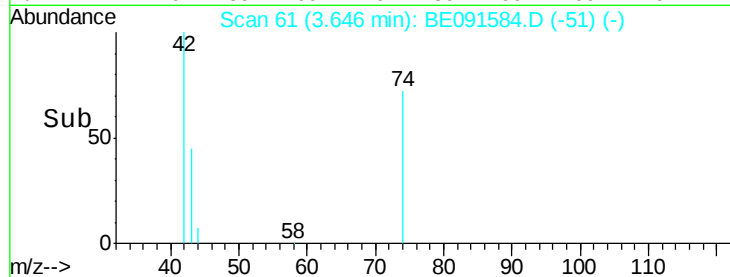
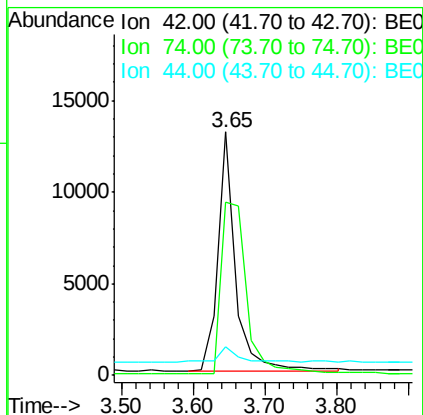
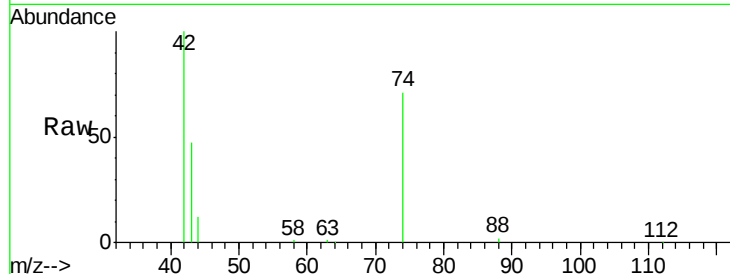


#3

n-Nitrosodimethylamine
 Concen: 3.70 ng
 RT: 3.65 min Scan# 61
 Delta R.T. -0.03 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Instrument :
 BNA_E
 ClientSampleId :

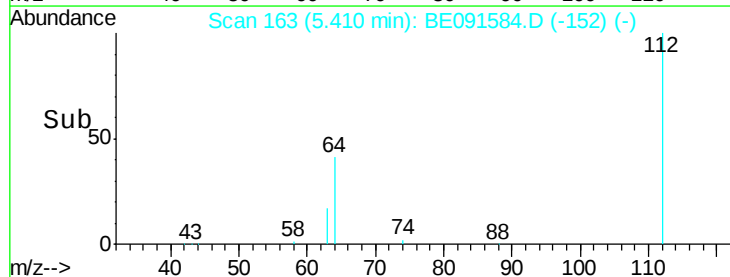
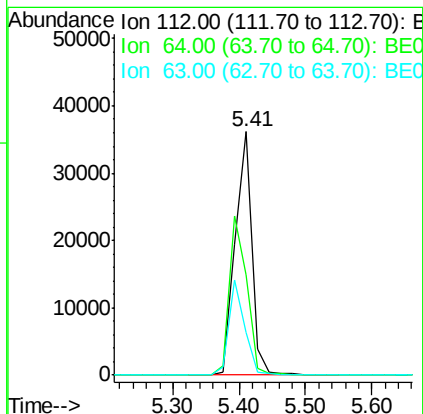
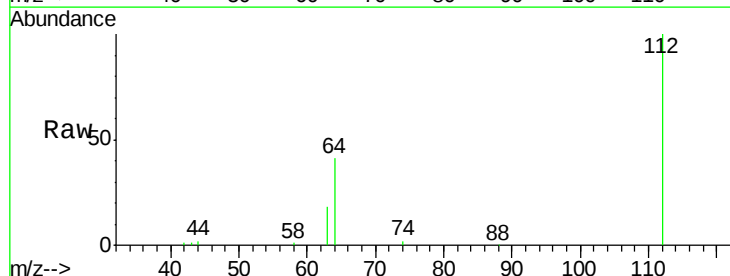
Tot Ion: 42 Resp: 22305
 Ion Ratio Lower Upper
 42 100
 74 104.4 84.3 126.5
 44 6.9 6.7 10.1

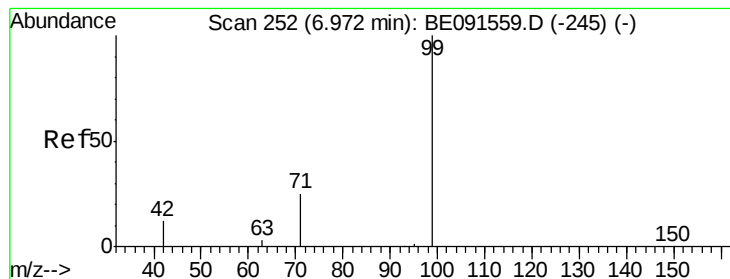


#4

2-Fluorophenol
 Concen: 7.25 ng
 RT: 5.41 min Scan# 163
 Delta R.T. -0.01 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Tgt Ion: 112 Resp: 62992
 Ion Ratio Lower Upper
 112 100
 64 68.1 53.3 79.9
 63 36.7 29.8 44.8





#5

Phenol-d6

Concen: 7.77 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

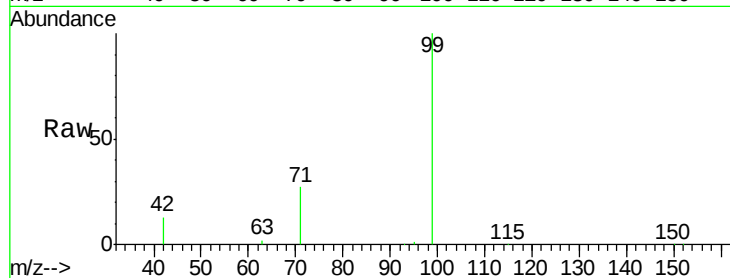
Tot Ion: 99 Resp: 91382

Ion Ratio Lower Upper

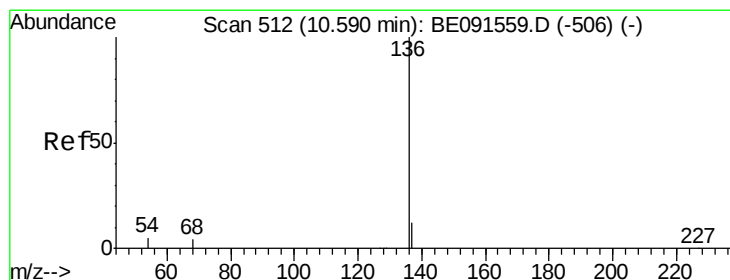
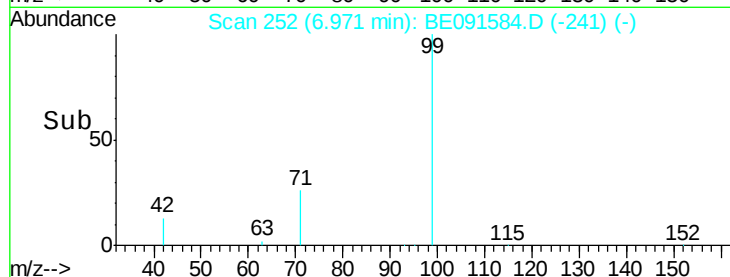
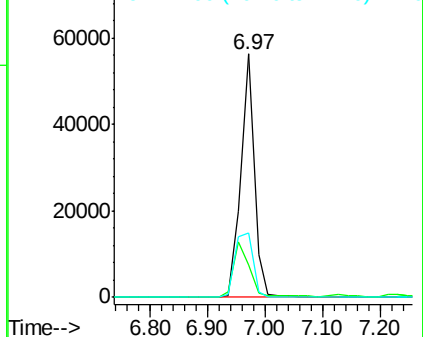
99 100

42 25.4 20.6 30.8

71 35.7 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: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion: 136 Resp: 156161

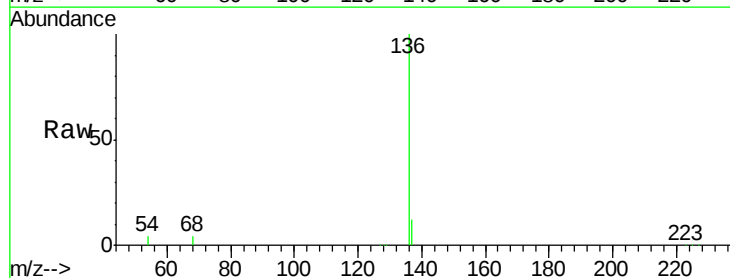
Ion Ratio Lower Upper

136 100

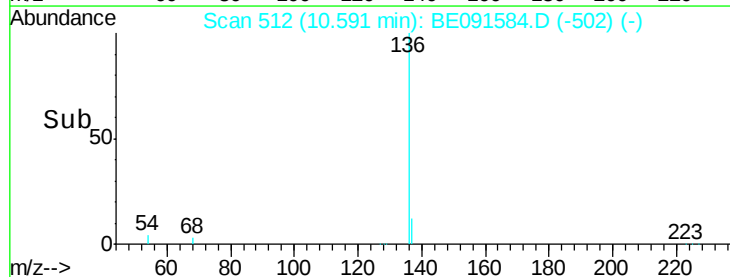
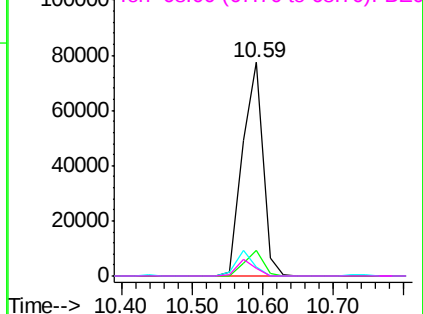
137 11.7 8.8 13.2

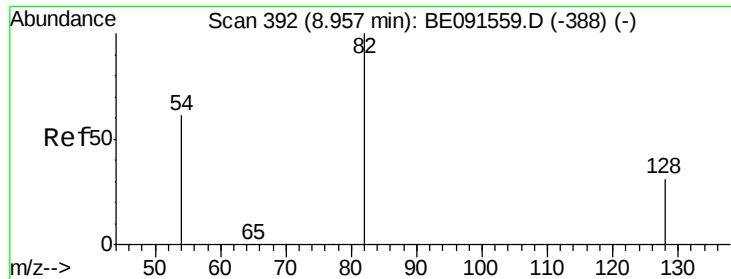
54 4.4 5.2 7.8#

68 3.6 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: 3.97 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

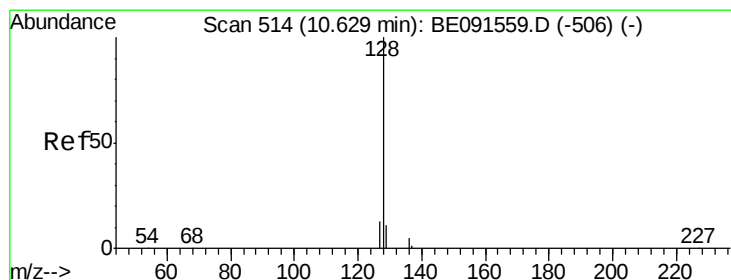
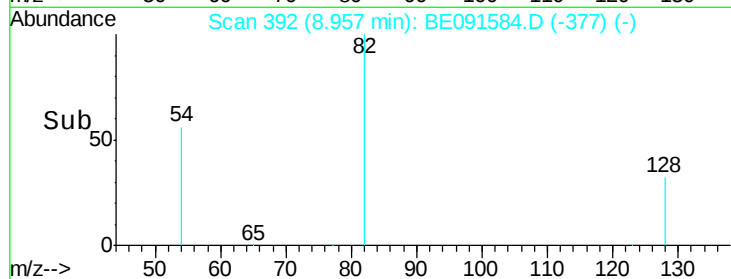
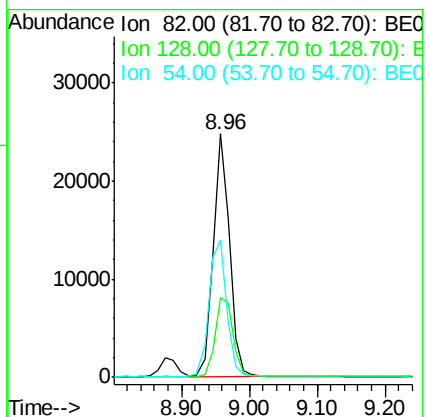
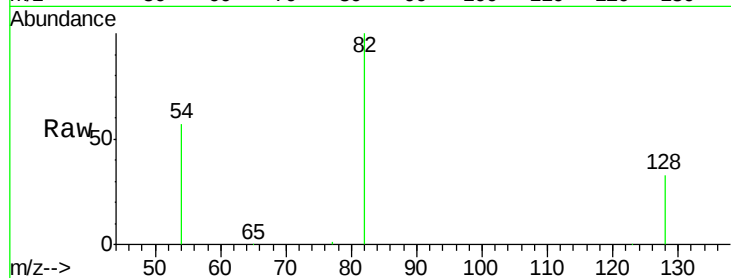
Tot Ion: 82 Resp: 41666

Ion Ratio Lower Upper

82 100

128 32.6 23.5 35.3

54 56.6 52.4 78.6



#8

Naphthalene

Concen: 3.92 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

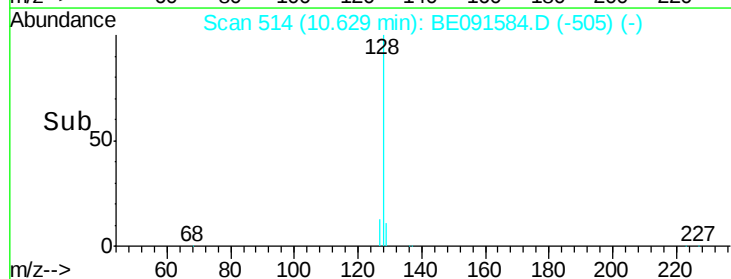
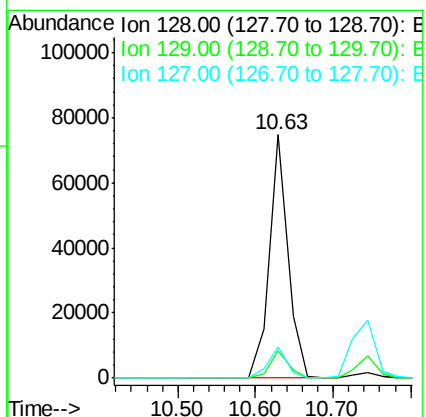
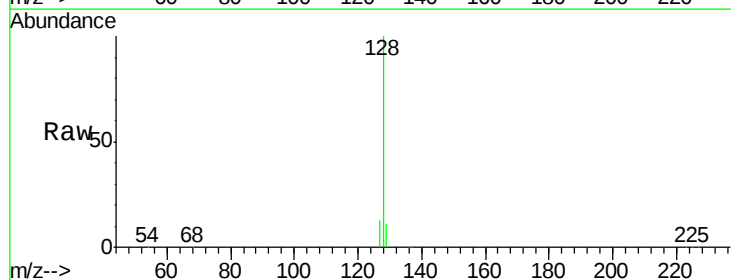
Tgt Ion: 128 Resp: 126479

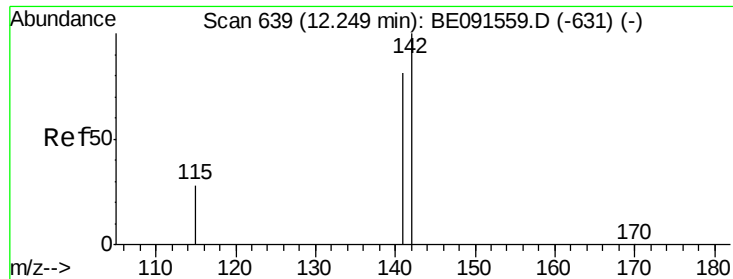
Ion Ratio Lower Upper

128 100

129 11.0 8.2 12.2

127 13.0 11.8 17.8





#9

2-Methylnaphthalene

Concen: 4.29 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

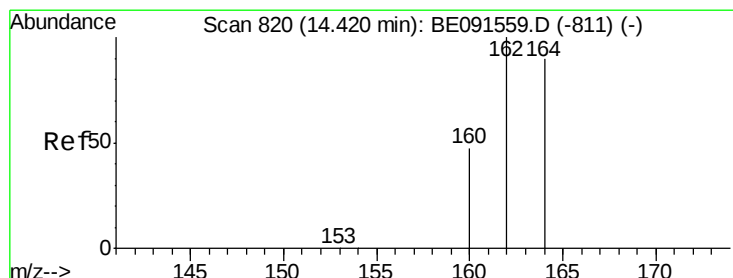
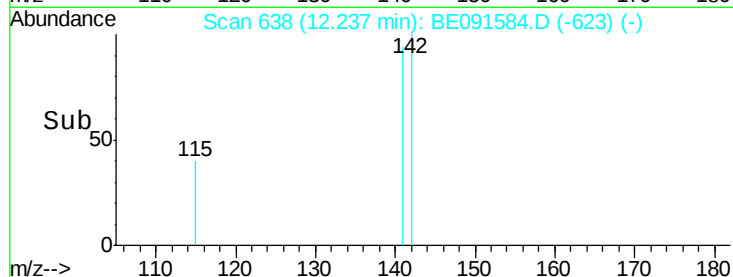
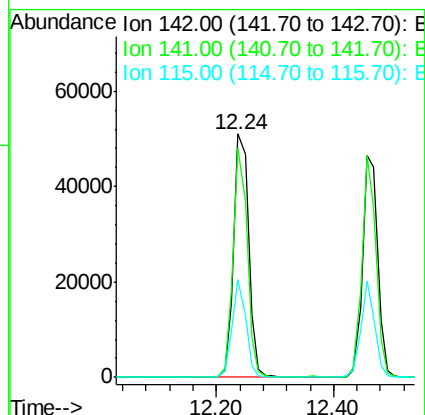
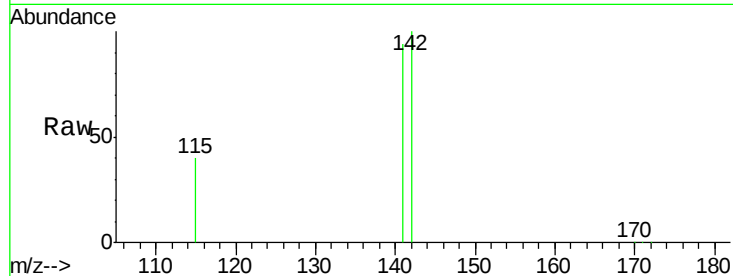
Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :
BNA_E
ClientSampleId :

Tot Ion:142 Resp: 90452

Ion	Ratio	Lower	Upper
142	100		
141	94.4	66.9	100.3
115	40.1	25.1	37.7



#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

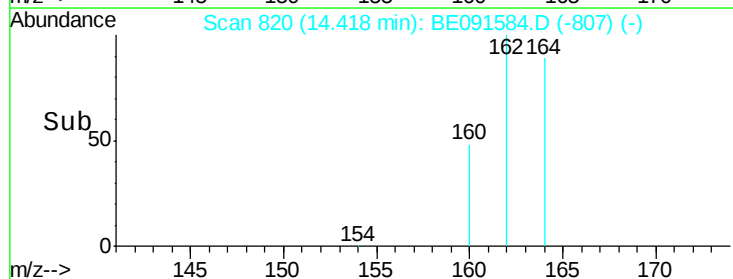
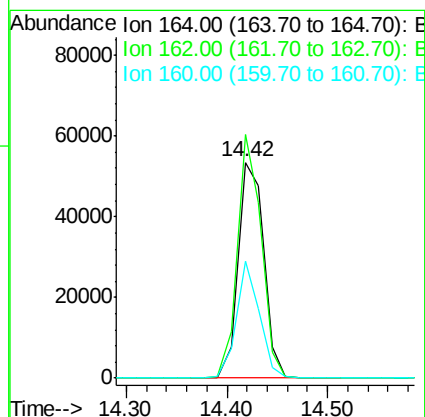
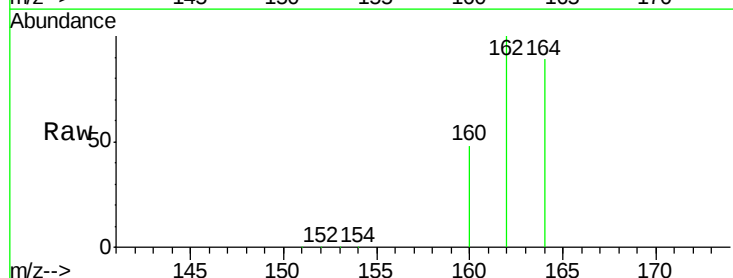
Delta R.T. -0.03 min

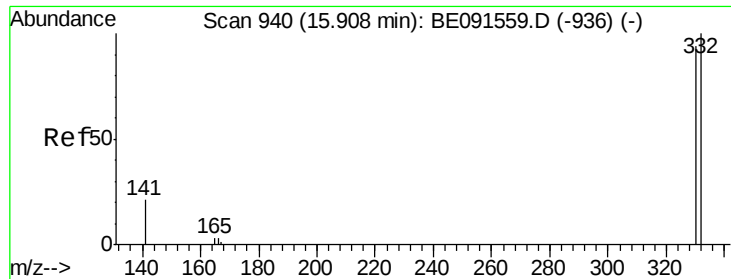
Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion:164 Resp: 94530

Ion	Ratio	Lower	Upper
164	100		
162	112.9	84.4	126.6
160	54.3	37.7	56.5

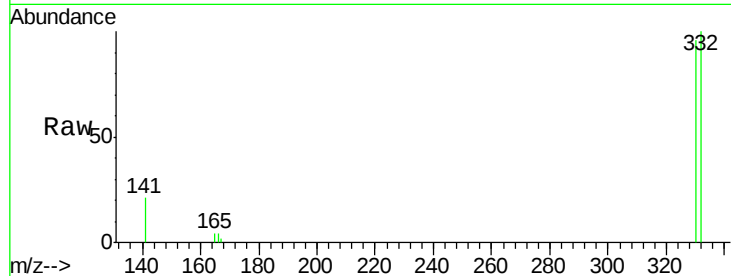




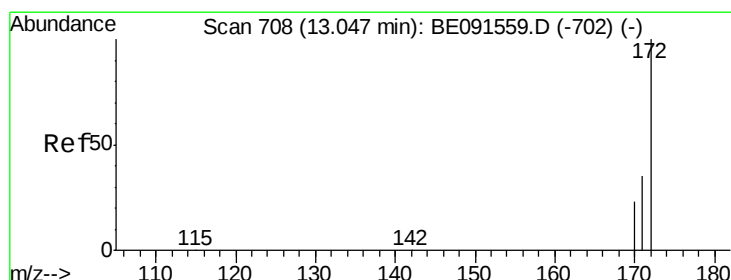
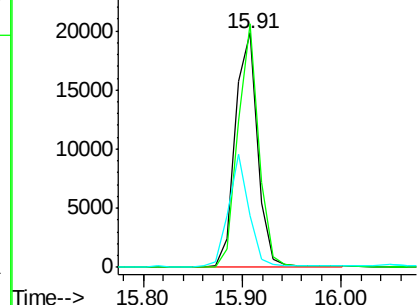
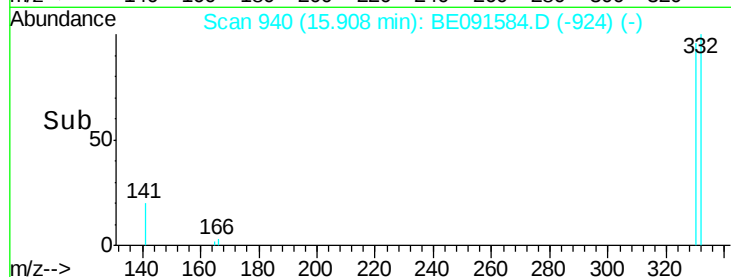
#11
 2,4,6-Tribromophenol
 Concen: 7.41 ng
 RT: 15.91 min Scan# 940
 Delta R.T. -0.01 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 31038
 Ion Ratio Lower Upper
 330 100
 332 96.5 79.2 118.8
 141 43.2 28.1 42.1#

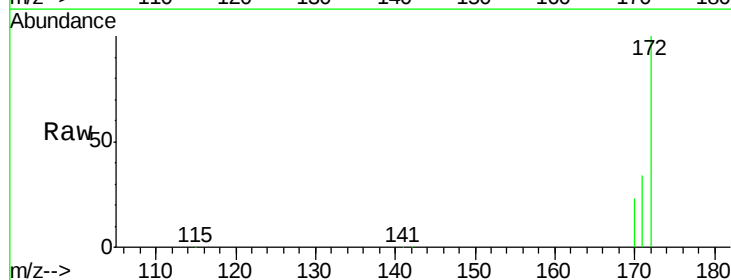


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

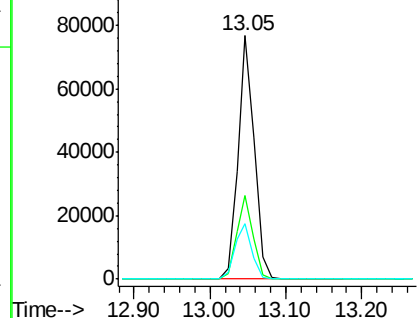
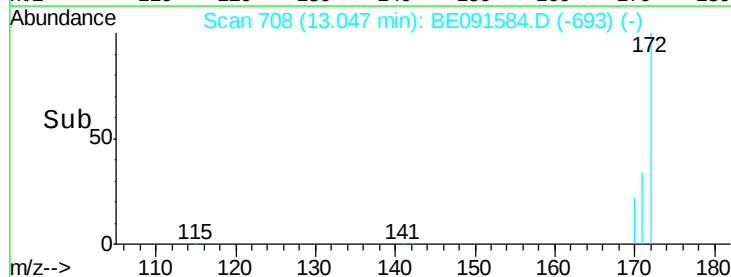


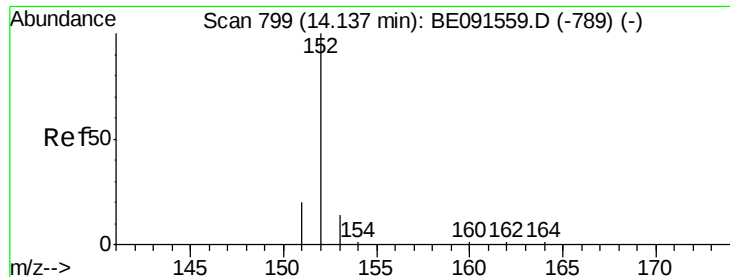
#12
 2-Fluorobiphenyl
 Concen: 4.30 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Tgt Ion:172 Resp: 115653
 Ion Ratio Lower Upper
 172 100
 171 34.3 29.8 44.8
 170 22.5 21.4 32.2



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





#13

Acenaphthylene

Concen: 4.16 ng

RT: 14.13 min Scan# 799

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

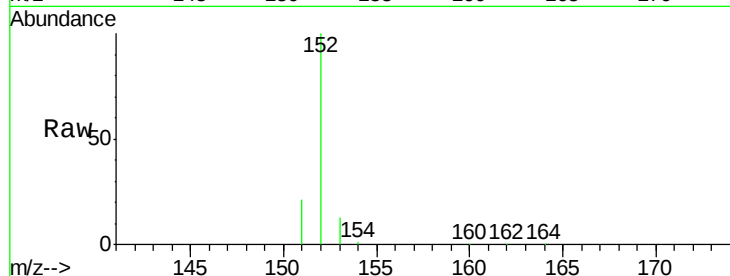
Tot Ion:152 Resp: 158629

Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

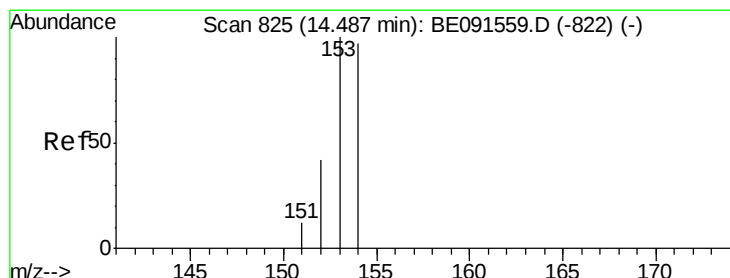
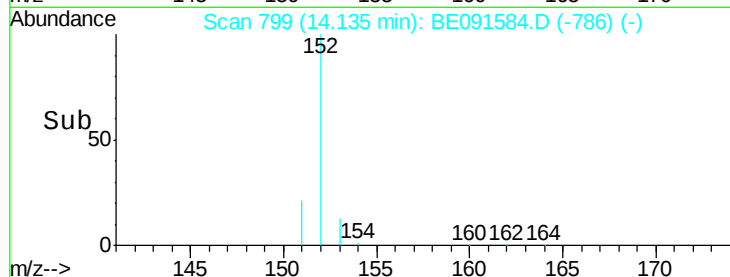
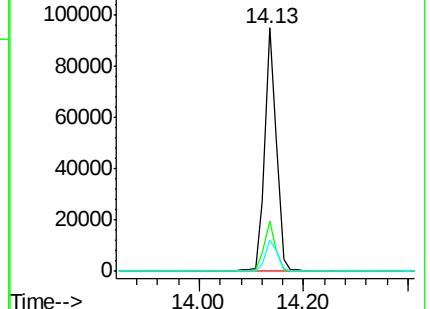
153 13.7 11.1 16.7



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: 4.41 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

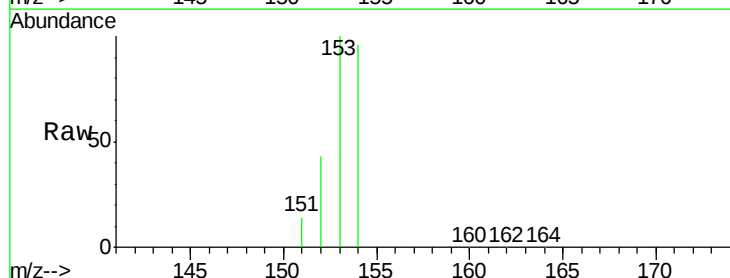
Tgt Ion:154 Resp: 103165

Ion Ratio Lower Upper

154 100

153 103.0 87.3 130.9

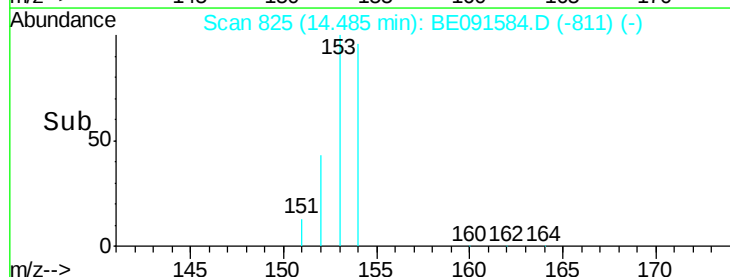
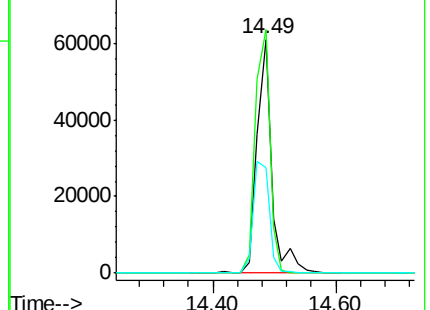
152 50.9 42.9 64.3

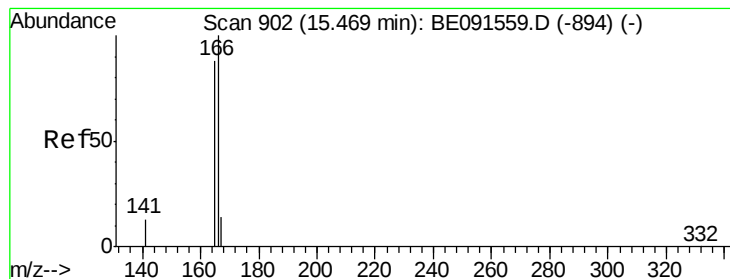


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 4.30 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

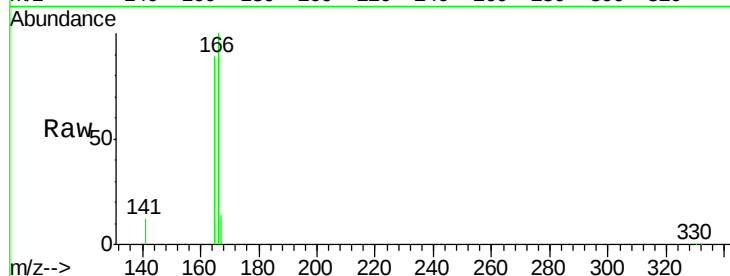
Tot Ion:166 Resp: 129434

Ion Ratio Lower Upper

166 100

165 98.5 79.2 118.8

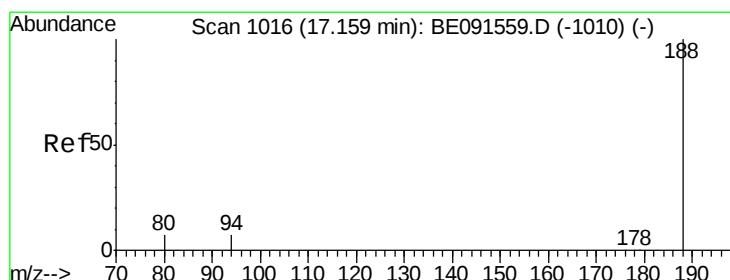
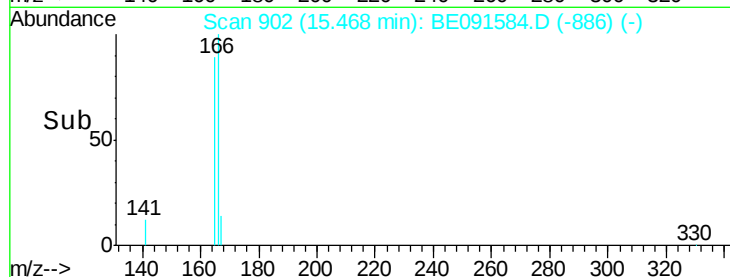
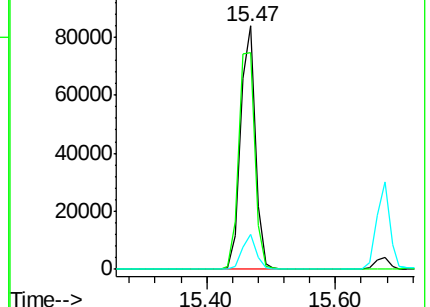
167 13.4 10.8 16.2



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: 17.16 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

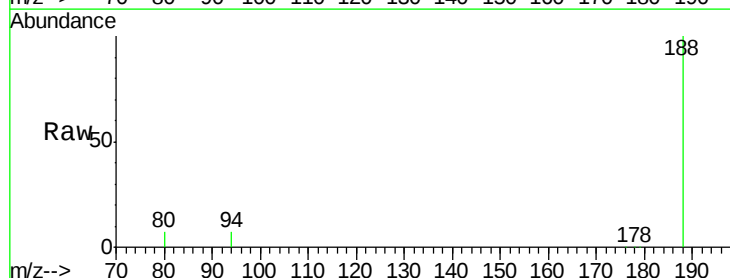
Tgt Ion:188 Resp: 233909

Ion Ratio Lower Upper

188 100

94 7.2 5.4 8.2

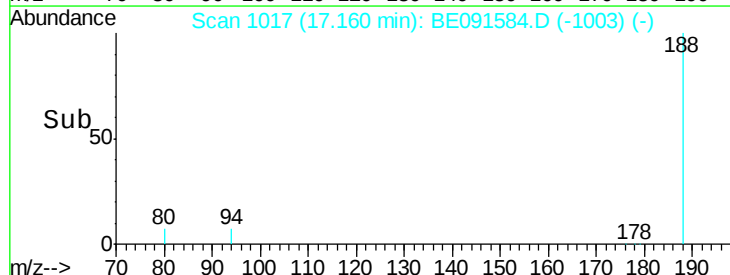
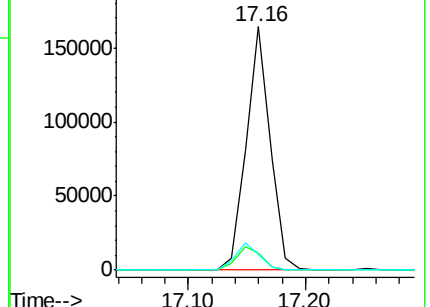
80 6.6 5.0 7.4

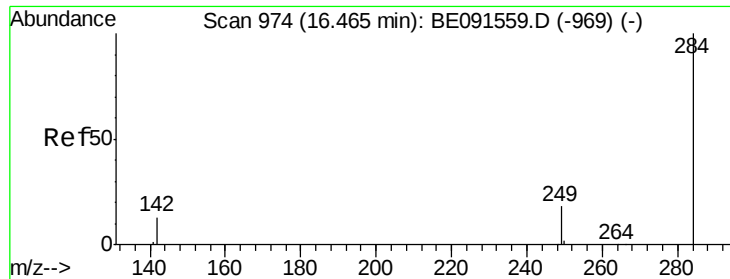


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

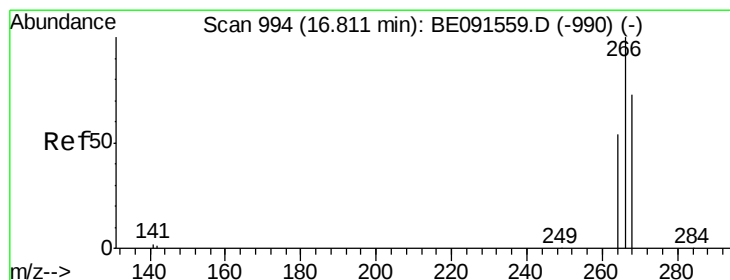
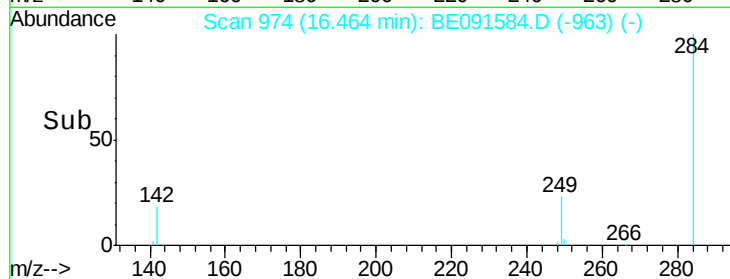
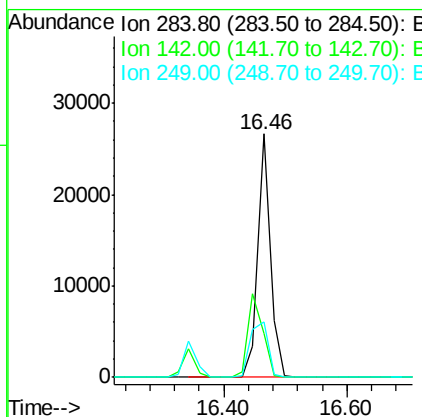
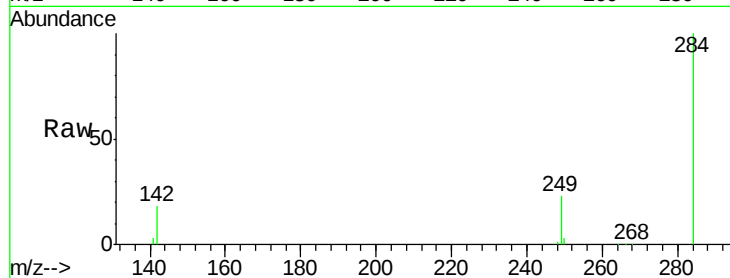




#17
Hexachlorobenzene
Concen: 4.39 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

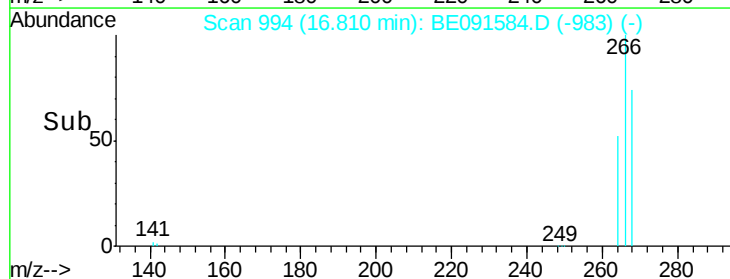
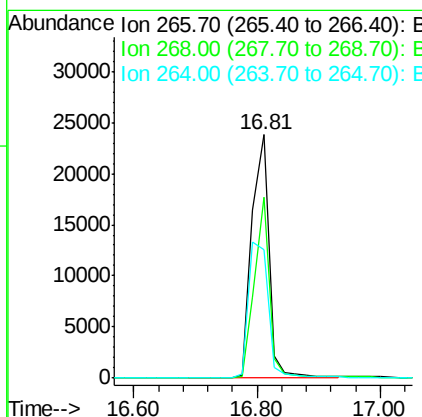
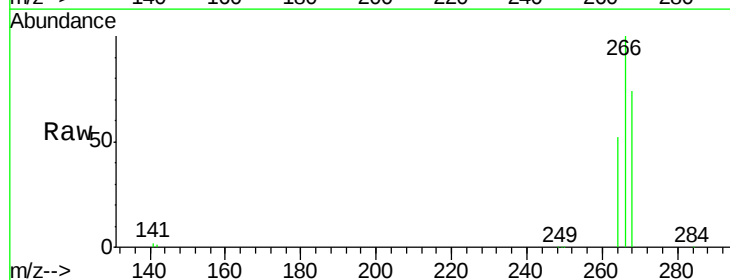
Instrument :
BNA_E
ClientSampleId :

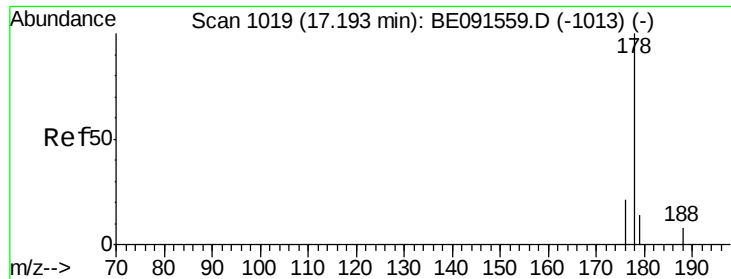
Tot Ion:284 Resp: 37749
Ion Ratio Lower Upper
284 100
142 39.8 31.0 46.4
249 31.8 25.8 38.8



#18
Pentachlorophenol
Concen: 9.46 ng
RT: 16.81 min Scan# 994
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion:266 Resp: 45716
Ion Ratio Lower Upper
266 100
268 74.1 48.2 72.2#
264 52.5 52.1 78.1





#19

Phenanthrene

Concen: 4.36 ng

RT: 17.19 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

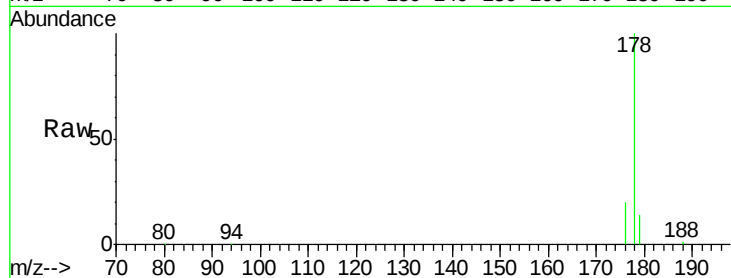
Tot Ion:178 Resp: 238597

Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

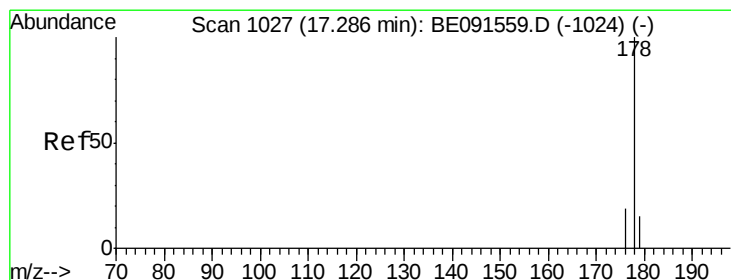
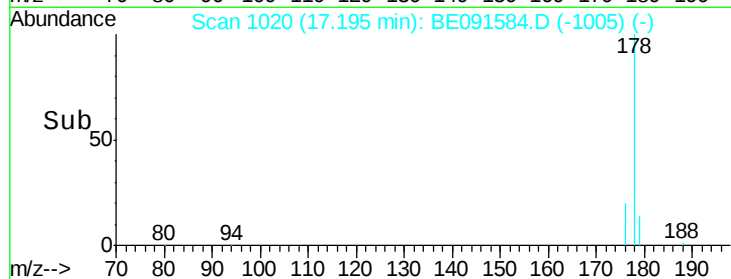
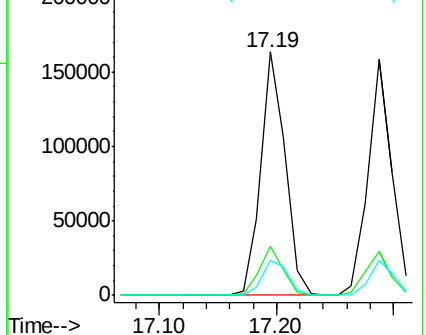
179 15.5 13.1 19.7



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: 4.50 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

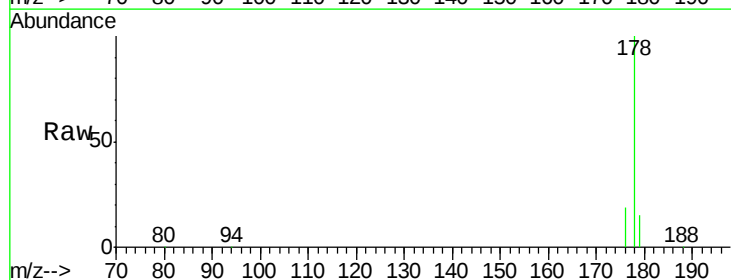
Tgt Ion:178 Resp: 227274

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

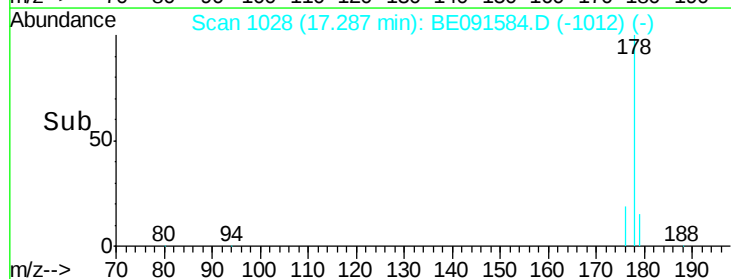
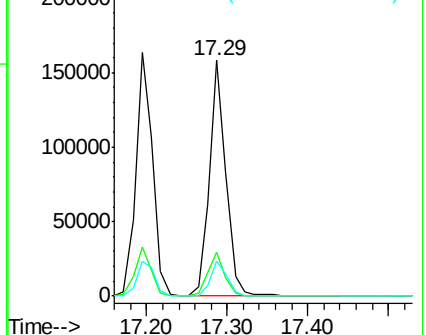
179 15.1 12.2 18.4

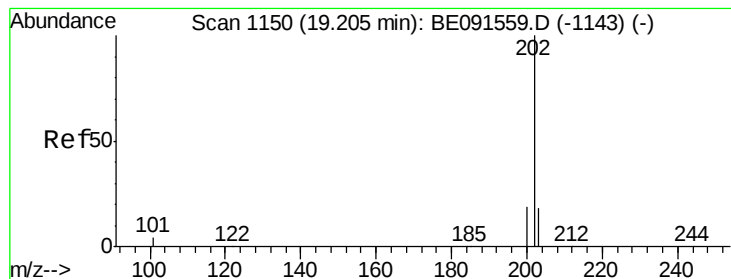


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 4.48 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091584.D

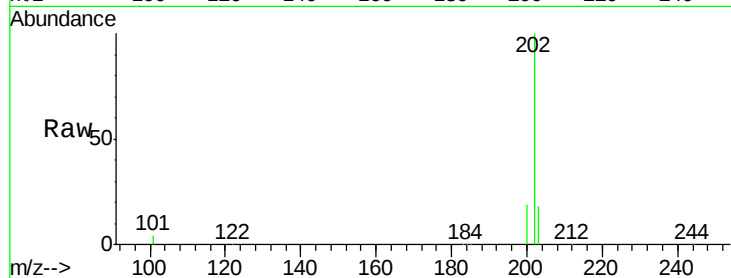
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampled :

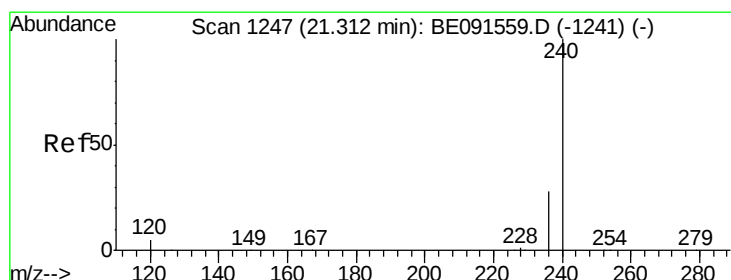
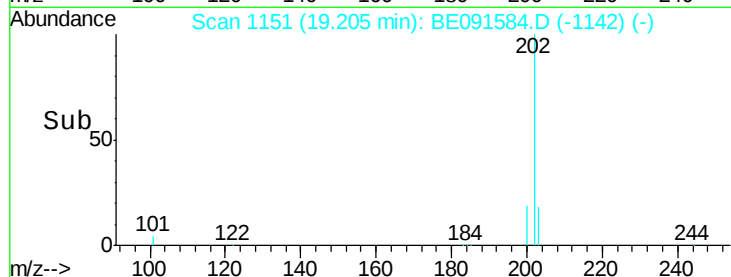
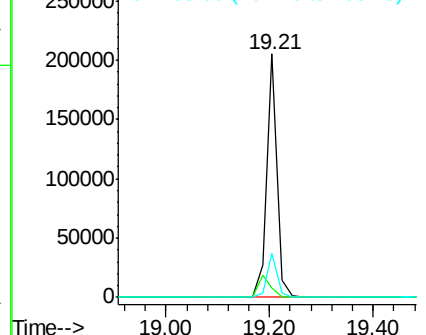
Tot Ion:	202	Resp:	289384
Ion Ratio	Lower	Upper	
202	100		
101	11.0	8.3	12.5
203	18.0	13.9	20.9



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

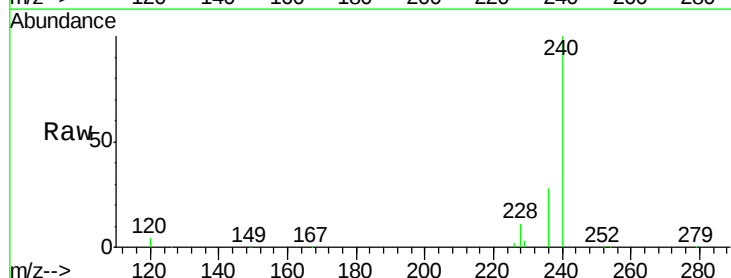
RT: 21.31 min Scan# 1248

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

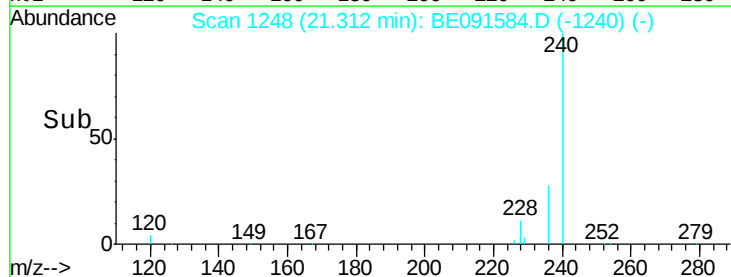
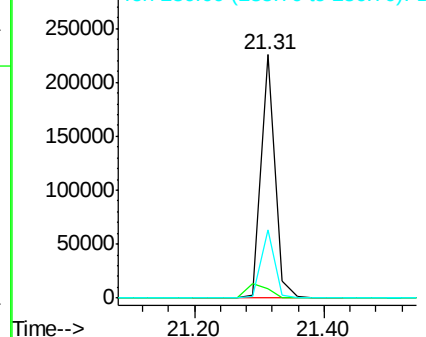
Tgt Ion:	240	Resp:	342360
Ion Ratio	Lower	Upper	
240	100		
120	4.0	4.0	6.0#
236	28.2	23.0	34.4

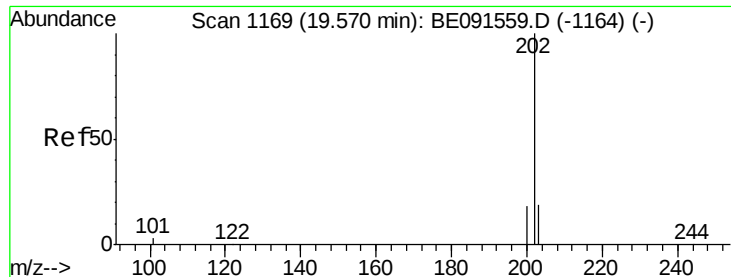


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

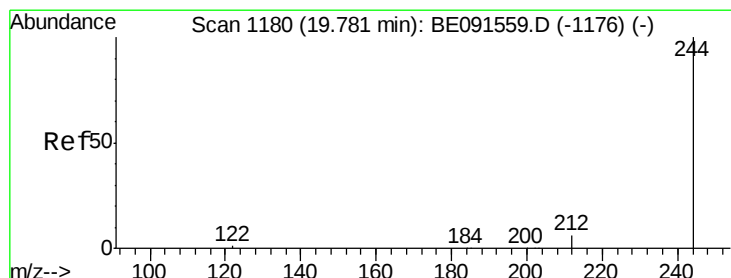
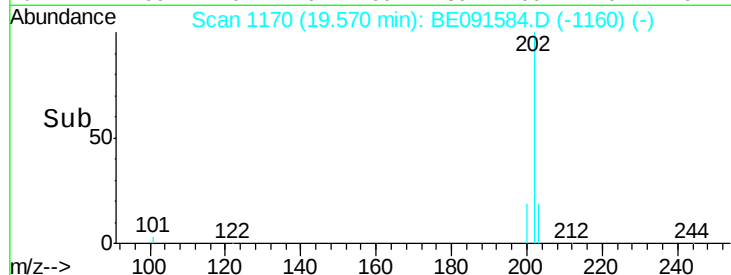
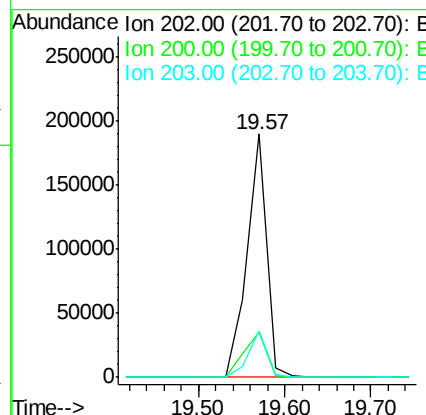
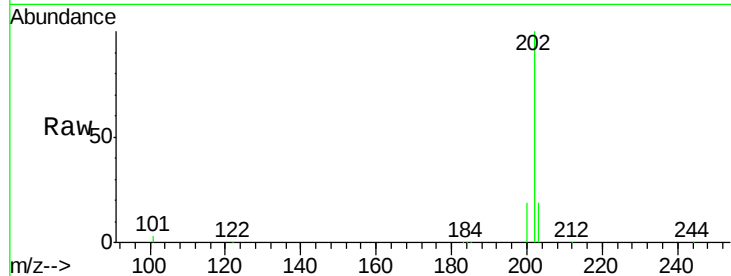




#23
Pvrene
Concen: 4.29 ng
RT: 19.57 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

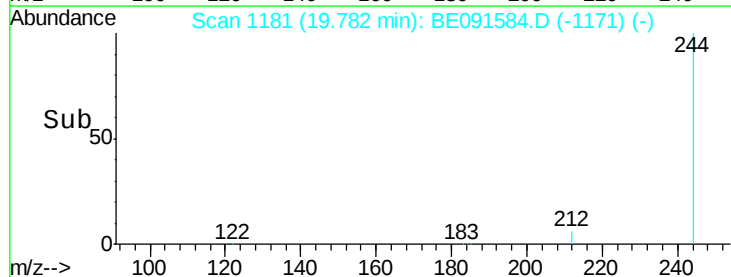
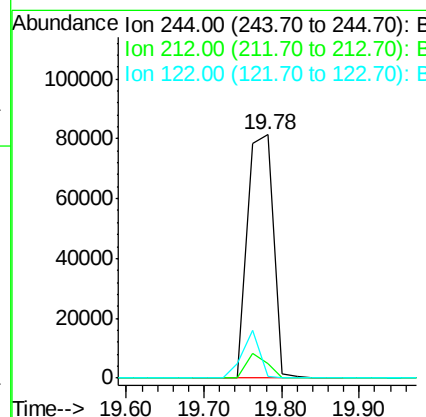
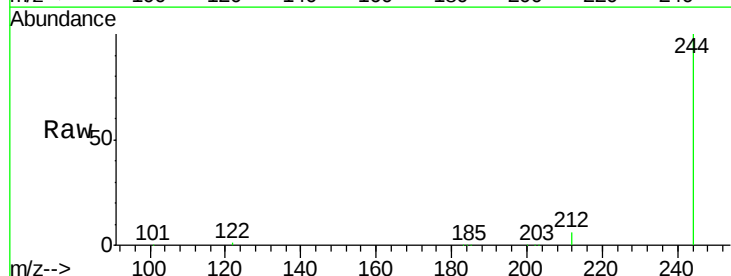
Instrument :
BNA_E
ClientSampleId :

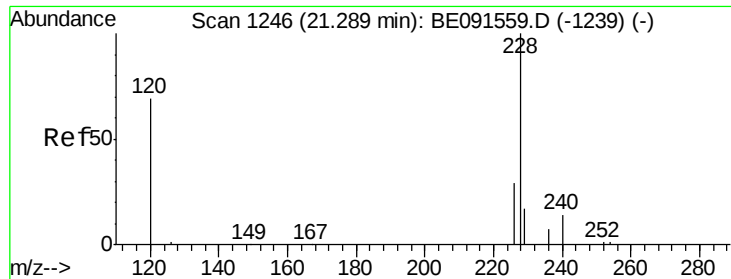
Tot Ion:202 Resp: 299742
Ion Ratio Lower Upper
202 100
200 21.0 16.4 24.6
203 18.2 14.6 21.8



#24
Terphenyl-d14
Concen: 4.31 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.00 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion:244 Resp: 187224
Ion Ratio Lower Upper
244 100
212 6.1 5.8 8.8
122 0.5 1.8 2.8#

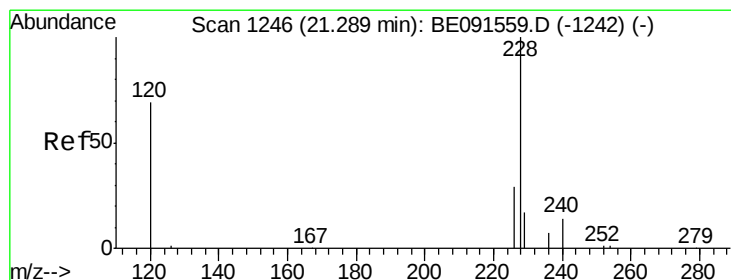
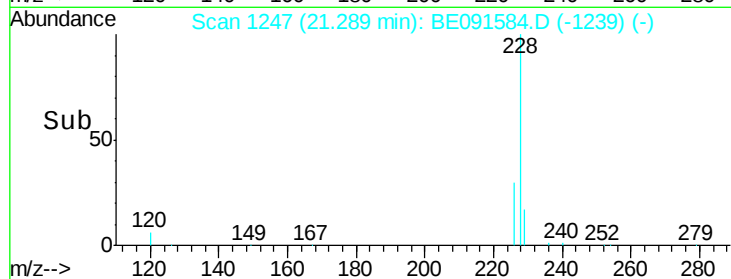
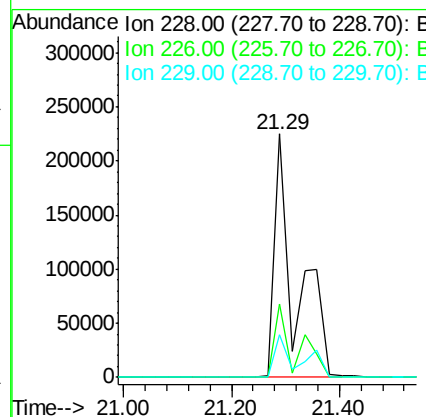
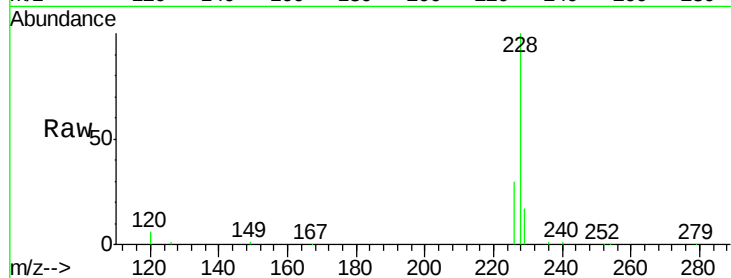




#25
Benzo(a)anthracene
Concen: 7.80 ng
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

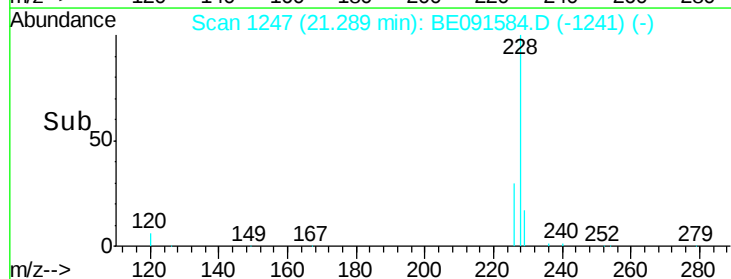
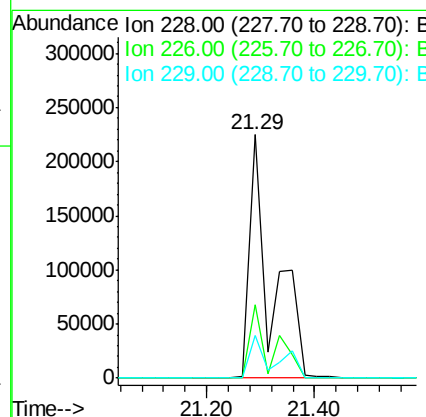
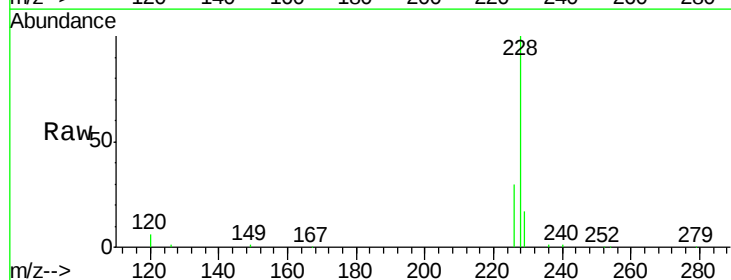
Instrument :
BNA_E
ClientSampled :

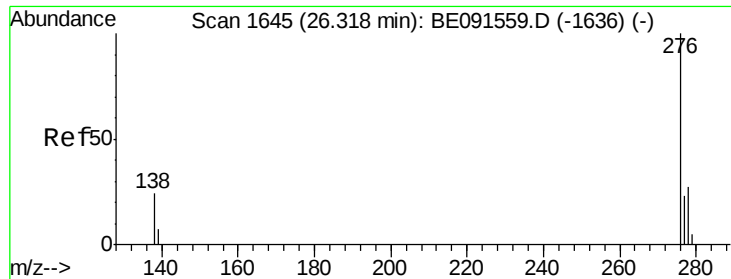
Tot Ion:228 Resp: 627201
Ion Ratio Lower Upper
228 100
226 30.2 24.0 36.0
229 17.5 13.8 20.6



#26
Chrysene
Concen: 9.15 ng
RT: 21.29 min Scan# 1247
Delta R.T. -0.07 min
Lab File: BE091584.D
Acq: 31 Mar 2016 14:43

Tgt Ion:228 Resp: 629501
Ion Ratio Lower Upper
228 100
226 30.2 18.9 28.3#
229 17.5 19.1 28.7#

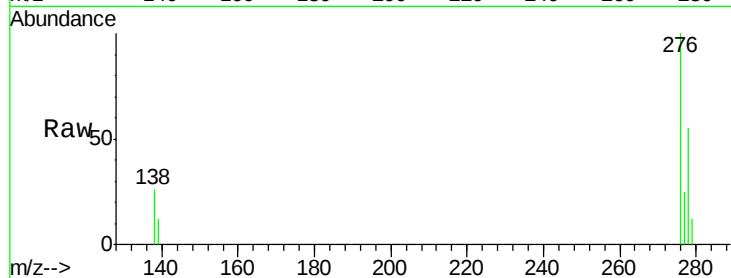




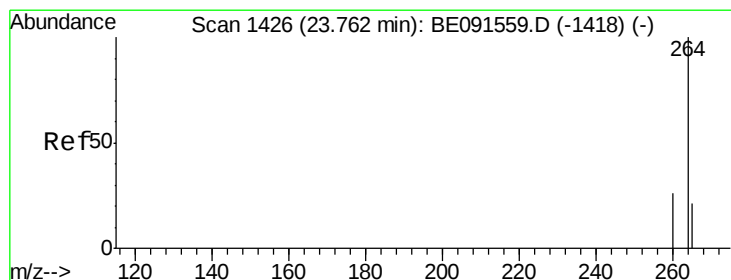
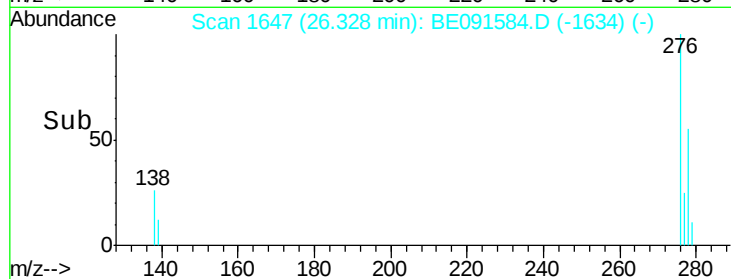
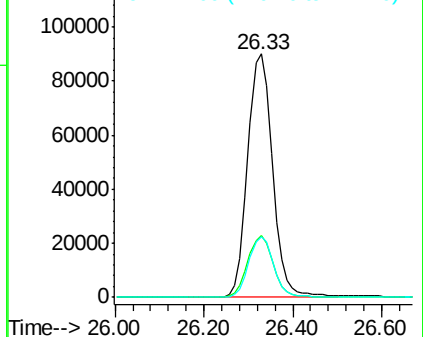
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 4.30 ng
 RT: 26.33 min Scan# 1647
 Delta R.T. -0.05 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 340418
 Ion Ratio Lower Upper
 276 100
 138 25.9 20.2 30.4
 277 24.8 19.8 29.8

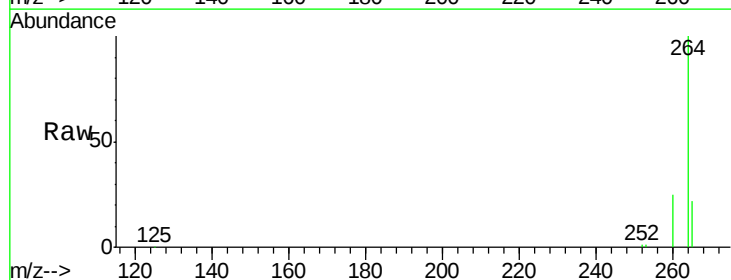


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

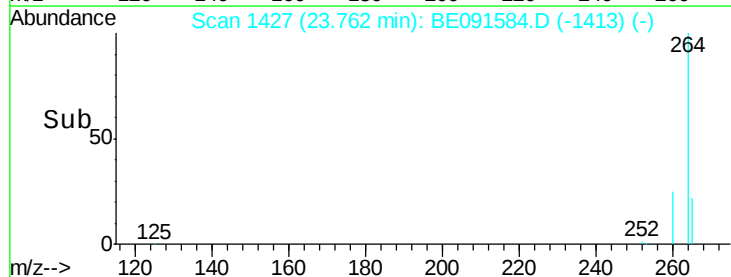
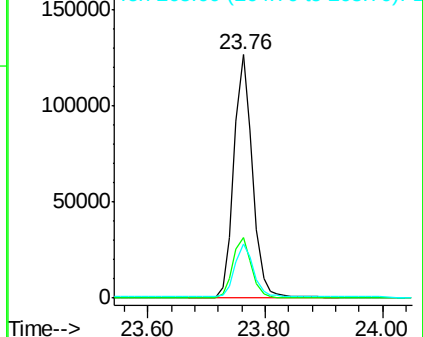


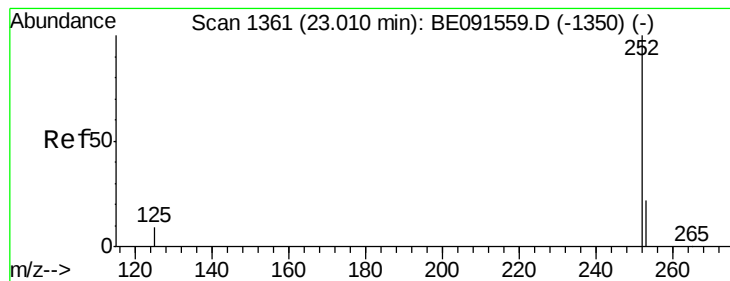
#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. -0.03 min
 Lab File: BE091584.D
 Acq: 31 Mar 2016 14:43

Tgt Ion:264 Resp: 278005
 Ion Ratio Lower Upper
 264 100
 260 24.8 20.1 30.1
 265 22.3 18.3 27.5



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#29

Benzo(b)fluoranthene

Concen: 4.66 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

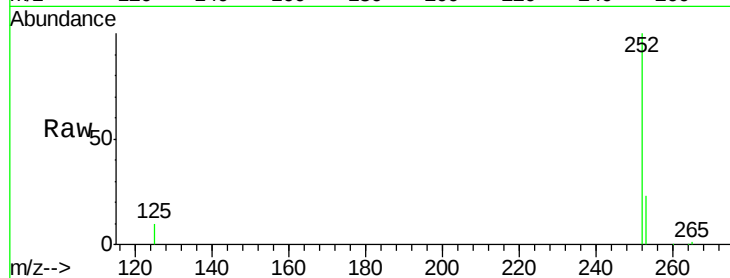
Tot Ion:252 Resp: 314066

Ion Ratio Lower Upper

252 100

253 23.1 18.7 28.1

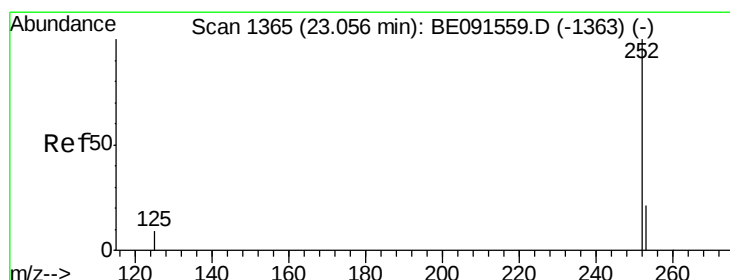
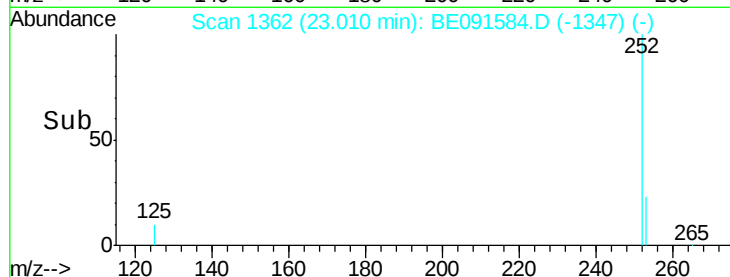
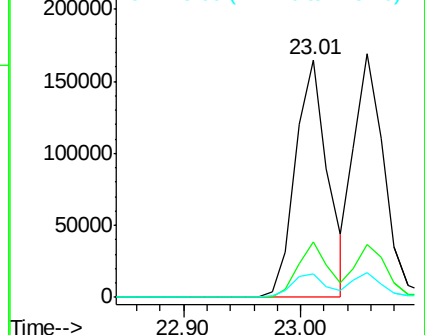
125 9.9 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#30

Benzo(k)fluoranthene

Concen: 4.60 ng

RT: 23.06 min Scan# 1366

Delta R.T. -0.02 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

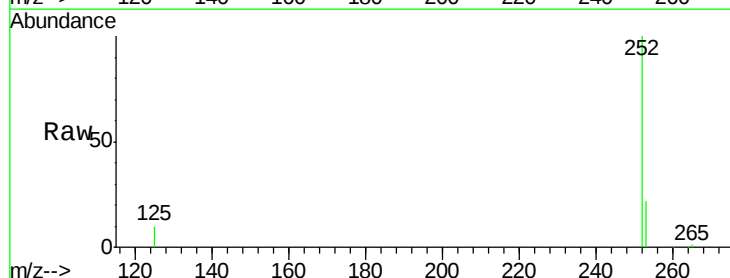
Tgt Ion:252 Resp: 300320

Ion Ratio Lower Upper

252 100

253 21.7 20.2 30.4

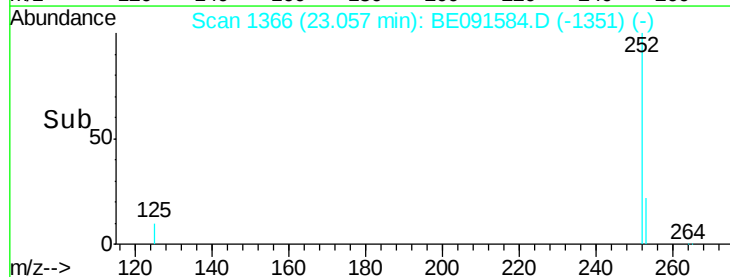
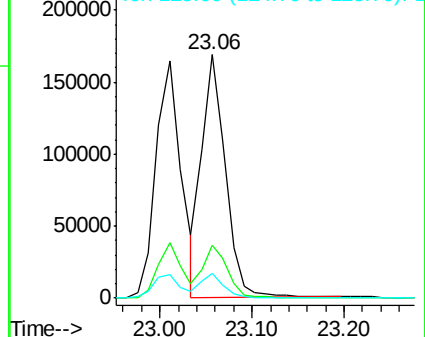
125 10.1 9.4 14.2

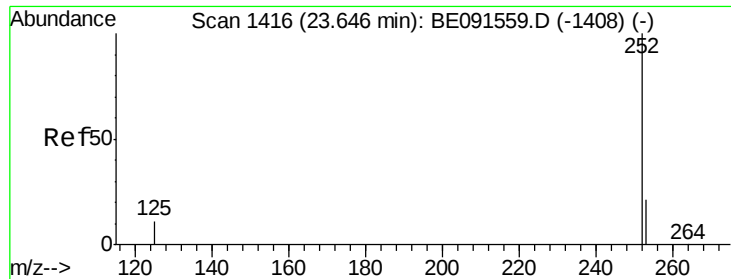


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#31

Benzo(a)pyrene

Concen: 4.79 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091584.D

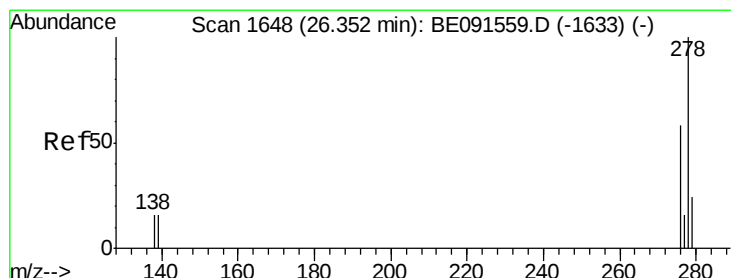
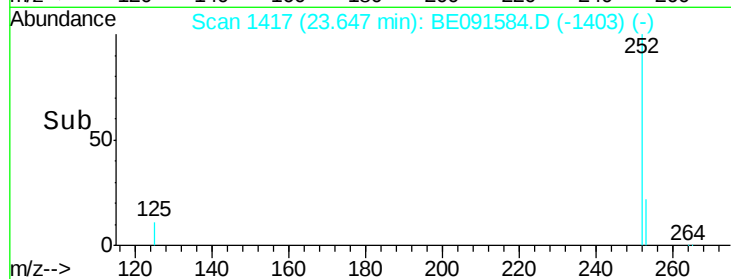
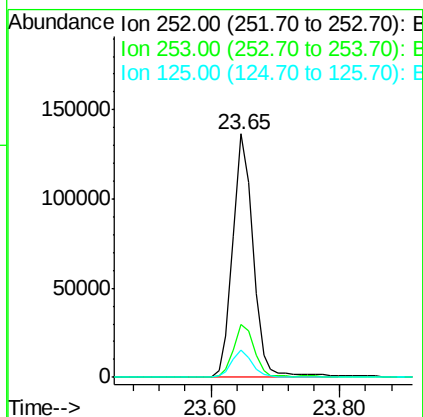
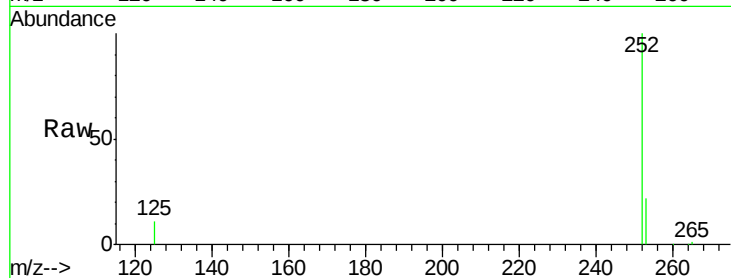
Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	252	Resp:	295502
Ion Ratio	Lower	Upper	
252	100		
253	21.8	19.4	29.0
125	11.4	11.4	17.2#



#32

Dibenzo(a,h)anthracene

Concen: 4.70 ng

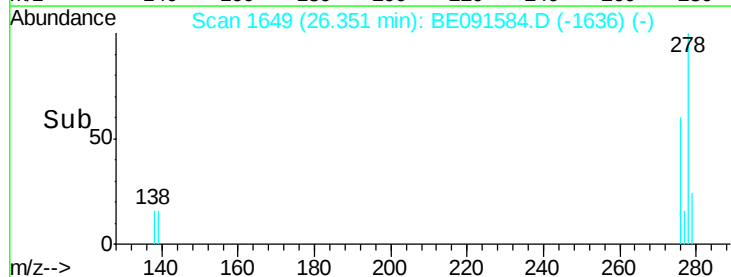
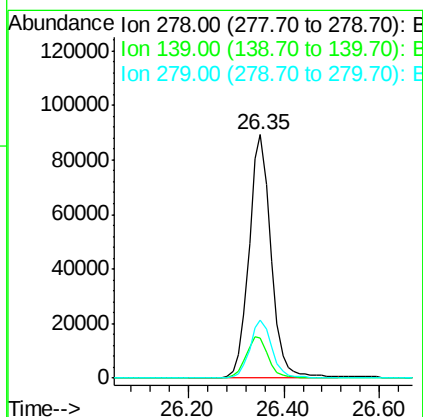
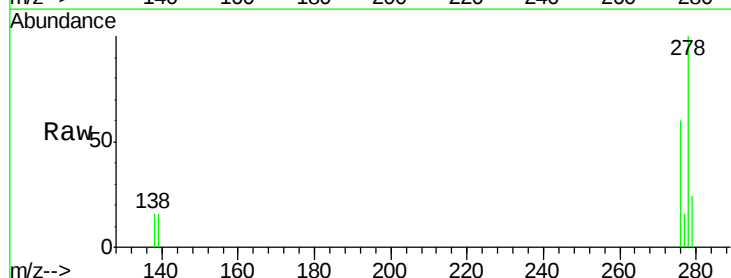
RT: 26.35 min Scan# 1649

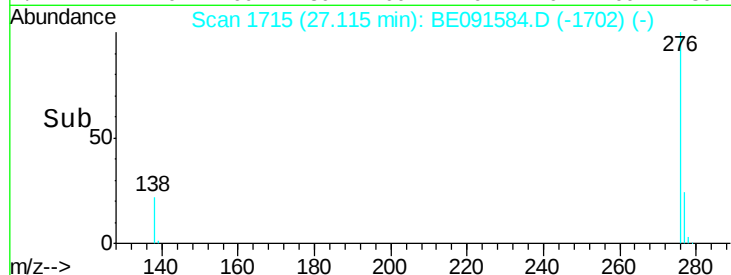
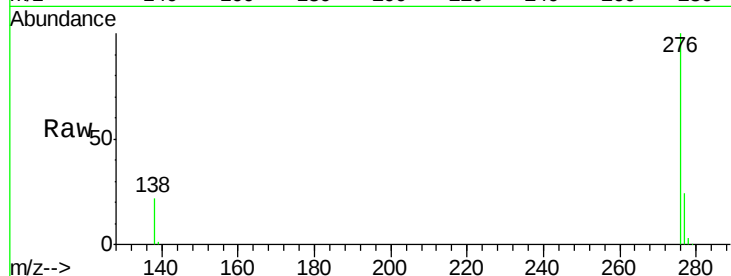
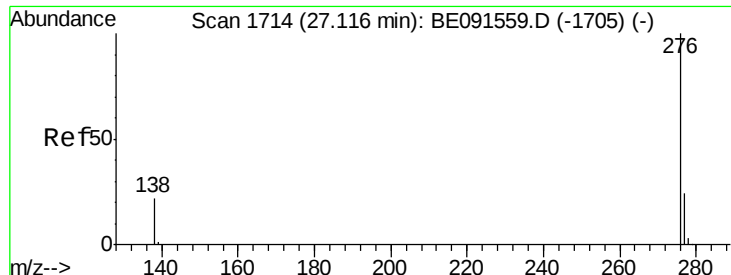
Delta R.T. -0.05 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Tgt Ion:	278	Resp:	284179
Ion Ratio	Lower	Upper	
278	100		
139	16.3	14.2	21.4
279	23.8	19.6	29.4





#33

Benzo(a,h,i)perylene

Concen: 4.61 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091584.D

Acq: 31 Mar 2016 14:43

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 276 Resp: 285011

Ion Ratio Lower Upper

276 100

277 23.8 19.4 29.2

138 22.1 18.2 27.4

