

Data Path : Z:\HPCHEM1\BNA E\DATA\BE060716\
 Data File : BE091893.D
 Acq On : 8 Jun 2016 1:57
 Operator : UM/SJ
 Sample : H3359-01MS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 OM-SPN-001-160531MS

Quant Time: Jun 08 14:36:25 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 08 14:06:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	31229	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	142193	5.00	ng	0.00
15) Acenaphthene-d10	14.38	164	87718	5.00	ng	0.00
24) Phenanthrene-d10	17.12	188	259112	5.00	ng	0.00
31) Chrysene-d12	21.27	240	206735	5.00	ng	-0.03
40) Perylene-d12	23.71	264	277448	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.38	112	43035	6.46	ng	0.00
5) Phenol-d6	6.94	99	63779	7.73	ng	-0.02
9) Nitrobenzene-d5	8.91	82	38818	3.63	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	20792	8.32	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	88175	3.31	ng	0.00
34) Terphenyl-d14	19.74	244	143745	-5.00	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.30	88	11212	2.70	ng	93
3) n-Nitrosodimethylamine	3.61	42	17510	3.35	ng	99
6) bis(2-Chloroethyl)ether	7.20	93	31410	3.52	ng	98
7) n-Nitroso-di-n-propylamine	8.54	70	25252	3.58	ng	# 92
10) Nitrobenzene	8.96	77	35209	3.61	ng	# 66
11) bis(2-Chloroethoxy)methane	9.95	93	51130	3.54	ng	# 38
12) Naphthalene	10.59	128	107314	3.50	ng	98
13) Hexachlorobutadiene	10.88	225	15487	3.39	ng	99
14) 2-Methylnaphthalene	12.20	142	75178	3.80	ng	99
18) Acenaphthylene	14.10	152	132682	3.34	ng	# 91
19) 2,6-Dinitrotoluene	13.96	165	21277	3.60	ng	97
20) Acenaphthene	14.44	154	84654	3.49	ng	96
21) 2,4-Dinitrotoluene	14.76	165	23474	3.49	ng	# 1
22) Fluorene	15.42	166	103555	3.49	ng	100
23) 4-Chlorophenyl-phenylether	15.42	204	48037	3.30	ng	98
25) 4-Bromophenyl-phenylether	16.31	248	29671	3.19	ng	97
26) Hexachlorobenzene	16.44	284	30100	3.16	ng	99
27) Pentachlorophenol	16.76	266	30483	6.35	ng	# 80
28) Phenanthrene	17.16	178	185951	3.10	ng	99
29) Anthracene	17.25	178	177813	3.33	ng	100
30) Fluoranthene	19.17	202	227536	3.51	ng	98
32) Benzidine	19.38	184	1557	0.19	ng	# 62
33) Pyrene	19.53	202	249655	4.79	ng	99
35) Benzo(a)anthracene	21.27	228	1130360m	4.59	ng	
36) 3,3'-Dichlorobenzidine	21.21	252	50759	3.07	ng	# 100
37) Chrysene	21.30	228	296691m	1.41	ng	
38) Bis(2-ethylhexyl)phthalate	21.19	149	92029	2.48	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.27	276	275351	4.37	ng	# 75
41) Benzo(b)fluoranthene	22.97	252	257886	3.80	ng	98
42) Benzo(k)fluoranthene	23.02	252	261520	3.72	ng	96
43) Benzo(a)pyrene	23.59	252	249185	3.92	ng	# 95
44) Dibenzo(a,h)anthracene	26.29	278	233197	3.93	ng	# 93
45) Benzo(a,h,i)perylene	27.05	276	239040	3.85	ng	# 92

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration

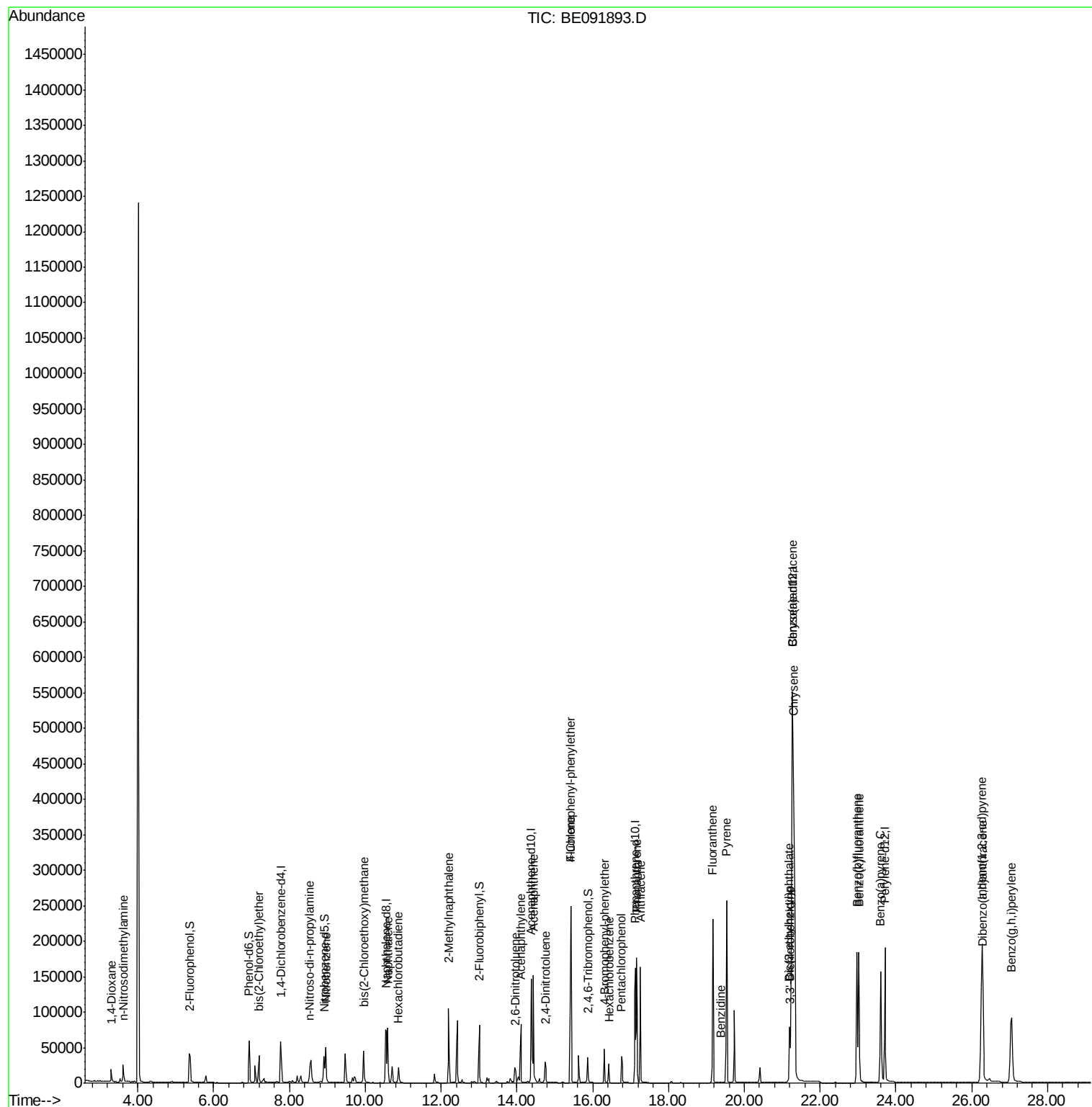
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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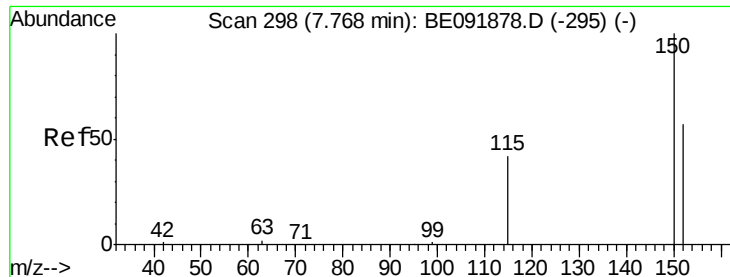
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.77 min Scan# 298

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

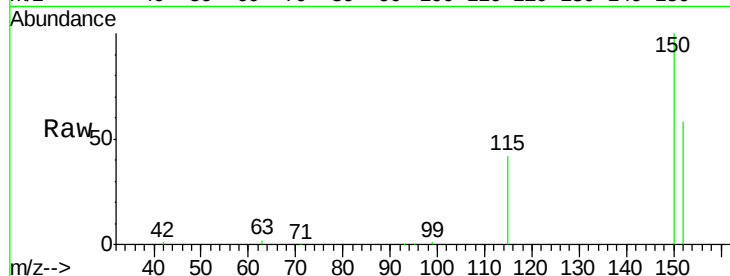
Tot Ion:152 Resp: 31229

Ion Ratio Lower Upper

152 100

150 172.7 123.9 185.9

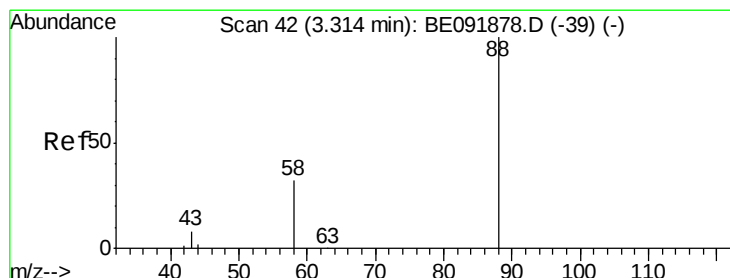
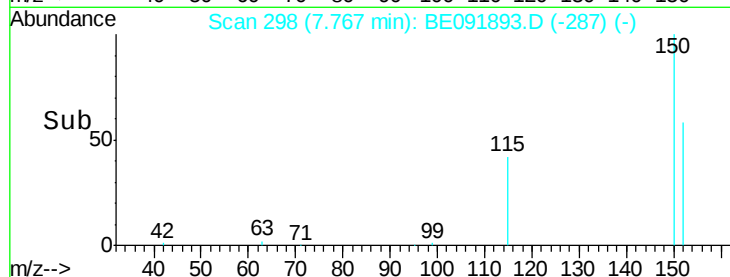
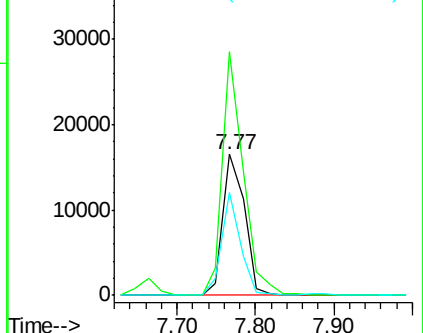
115 72.8 48.3 72.5#



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: 2.70 ng

RT: 3.30 min Scan# 41

Delta R.T. -0.01 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

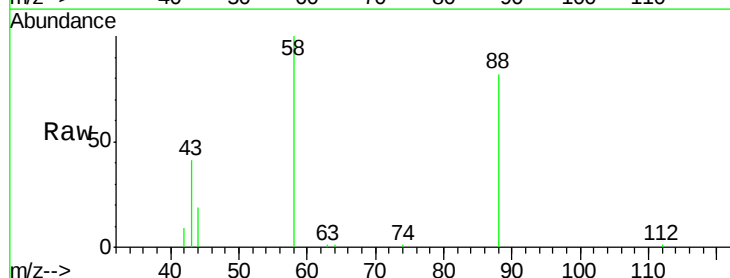
Tgt Ion: 88 Resp: 11212

Ion Ratio Lower Upper

88 100

58 87.6 63.0 94.4

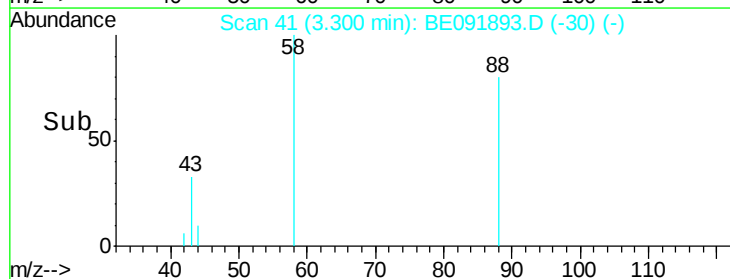
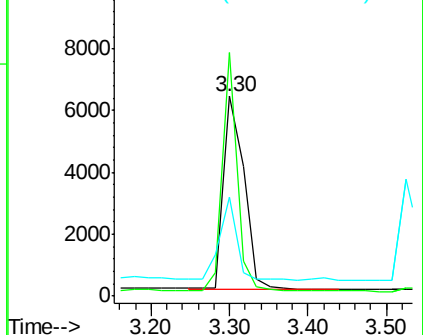
43 35.8 29.1 43.7

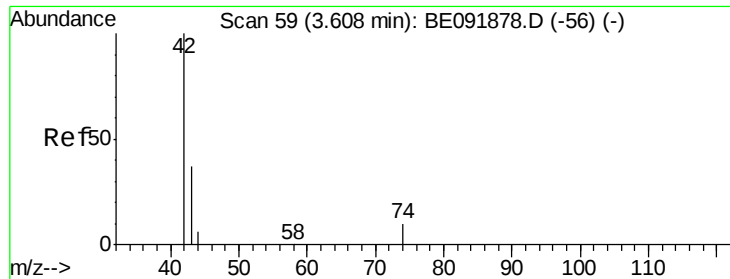


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.35 ng

RT: 3.61 min Scan# 59

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

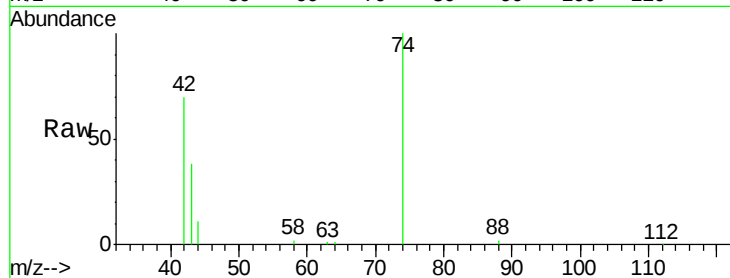
Tot Ion: 42 Resp: 17510

Ion Ratio Lower Upper

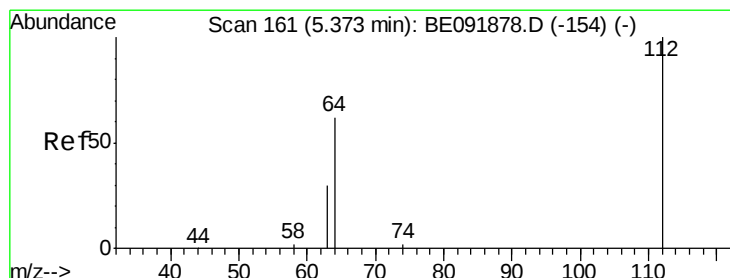
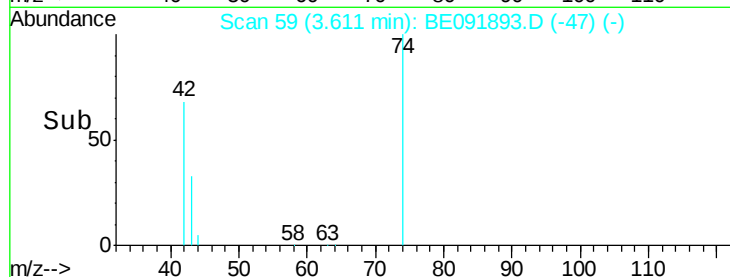
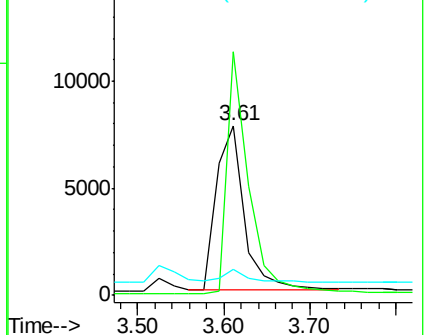
42 100

74 115.2 93.4 140.0

44 6.6 5.0 7.6



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 6.46 ng

RT: 5.38 min Scan# 161

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

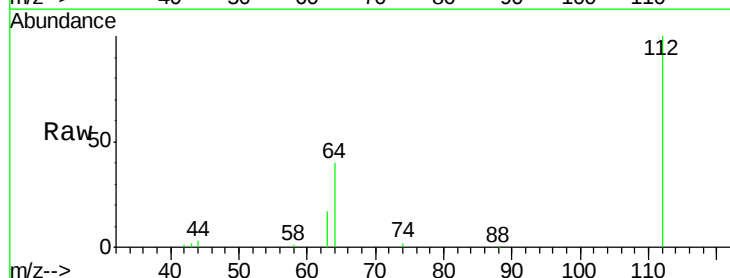
Tgt Ion: 112 Resp: 43035

Ion Ratio Lower Upper

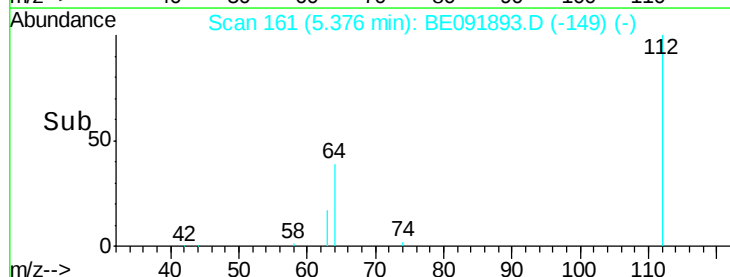
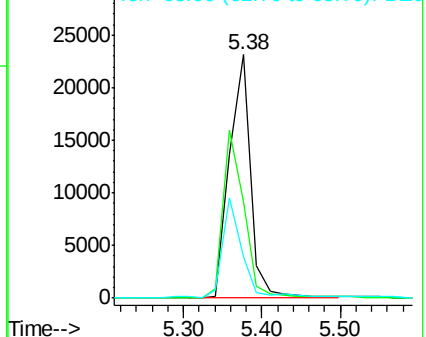
112 100

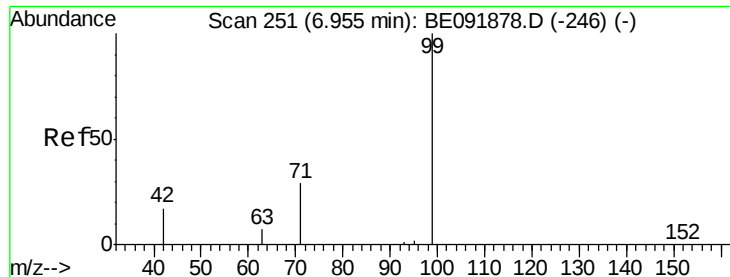
64 67.4 53.7 80.5

63 37.7 29.5 44.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.73 ng

RT: 6.94 min Scan# 250

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

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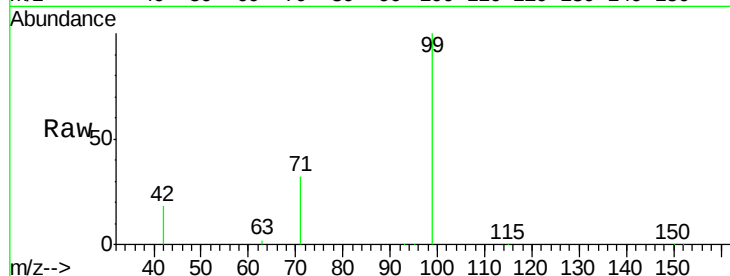
Tot Ion: 99 Resp: 63779

Ion Ratio Lower Upper

99 100

42 24.2 19.6 29.4

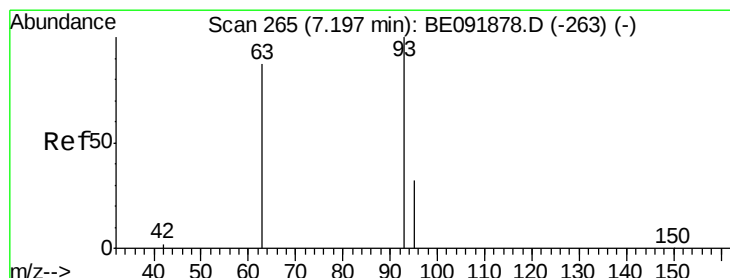
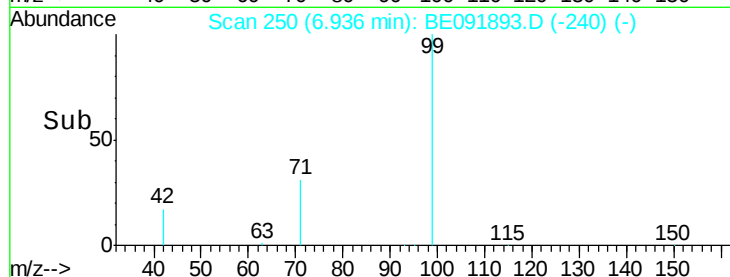
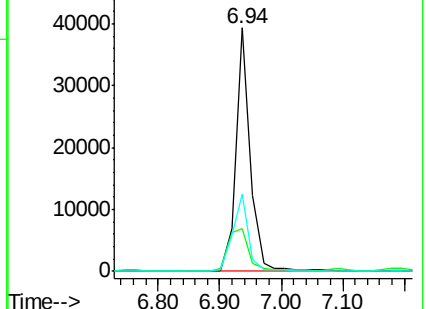
71 34.4 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 3.52 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

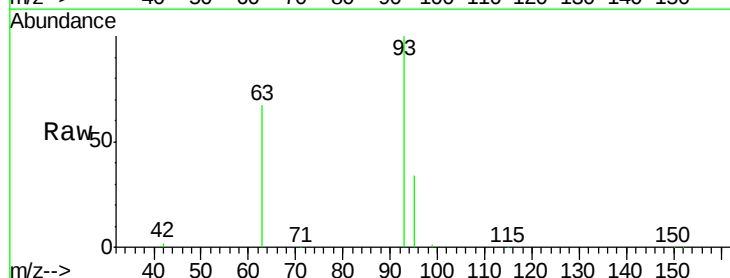
Tgt Ion: 93 Resp: 31410

Ion Ratio Lower Upper

93 100

63 84.2 66.2 99.4

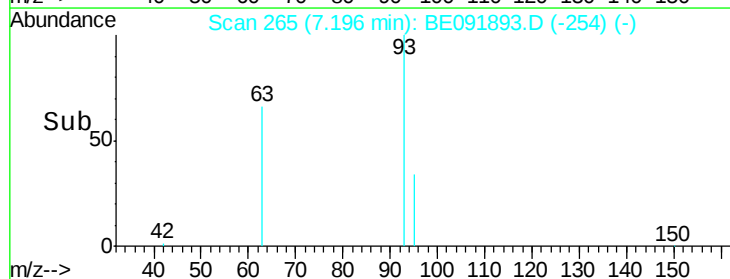
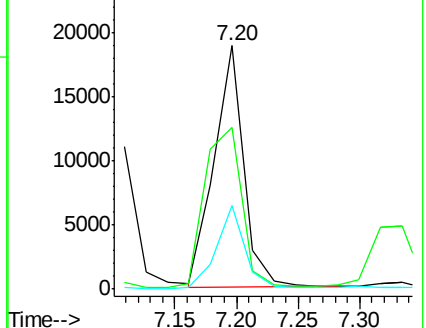
95 32.7 25.5 38.3

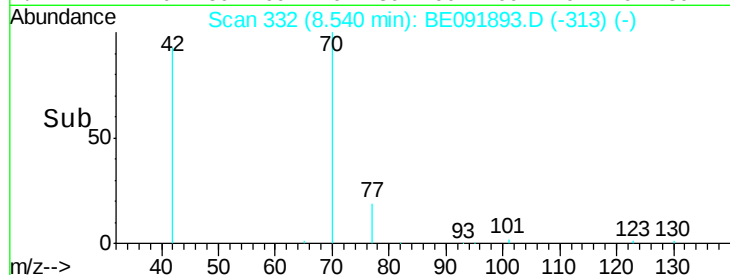
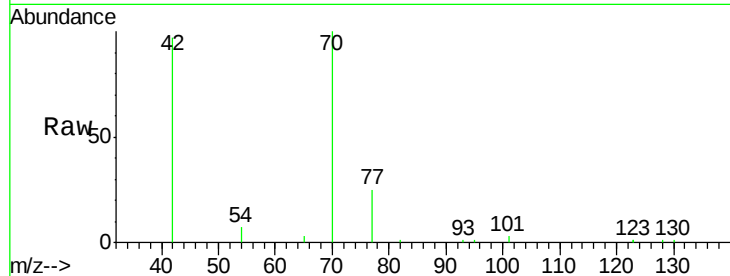
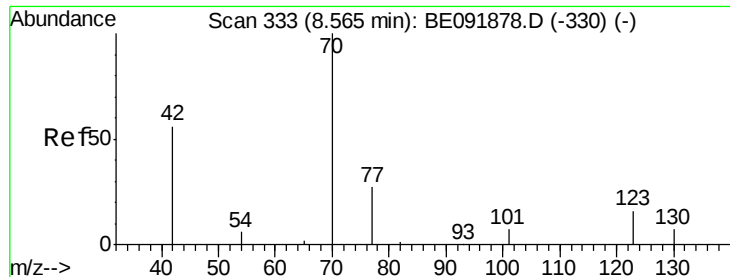


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 3.58 ng

RT: 8.54 min Scan# 332

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

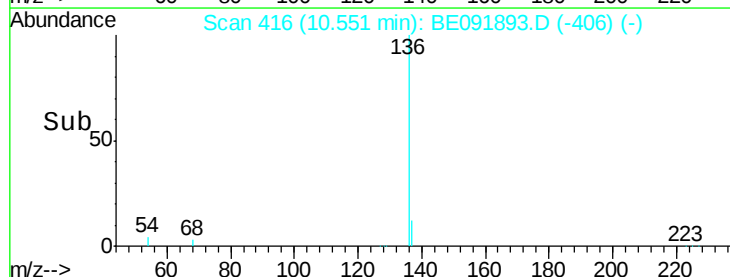
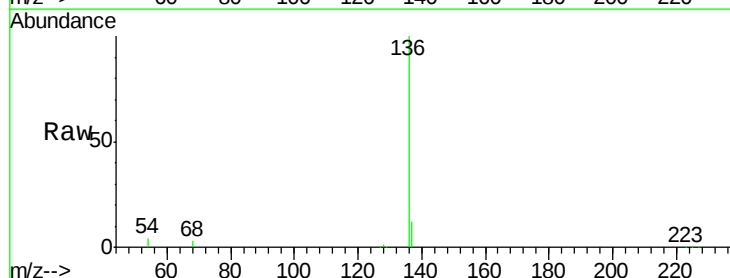
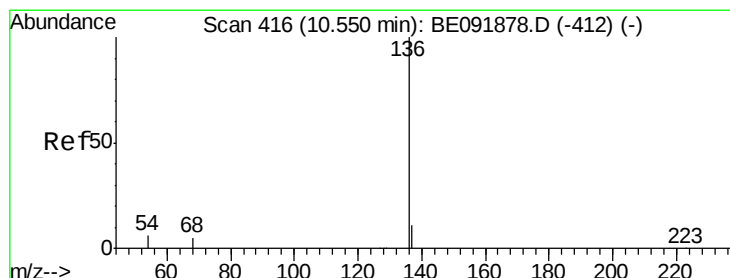
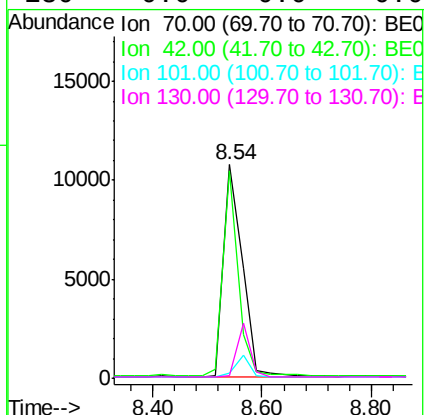
ClientSampleId :

OM-SPN-001-160531MS

Tot Ion: 70 Resp: 25252

Ion Ratio Lower Upper

70	100		
42	78.4	58.4	87.6
101	0.0	6.4	9.6#
130	0.0	0.0	0.0



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. 0.00 min

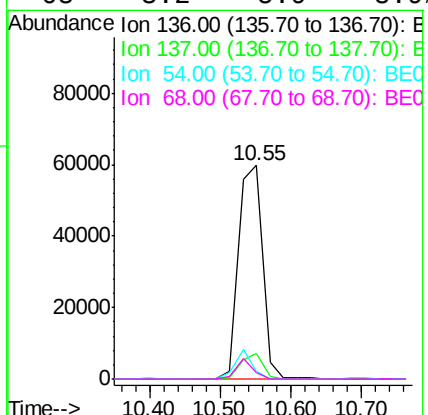
Lab File: BE091893.D

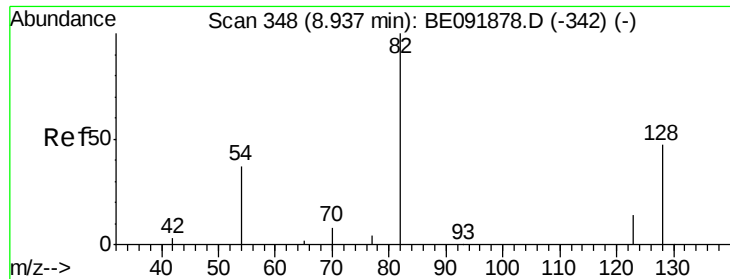
Acq: 8 Jun 2016 1:57

Tgt Ion: 136 Resp: 142193

Ion Ratio Lower Upper

136	100		
137	12.2	8.3	12.5
54	3.6	8.2	12.4#
68	3.2	5.9	8.9#

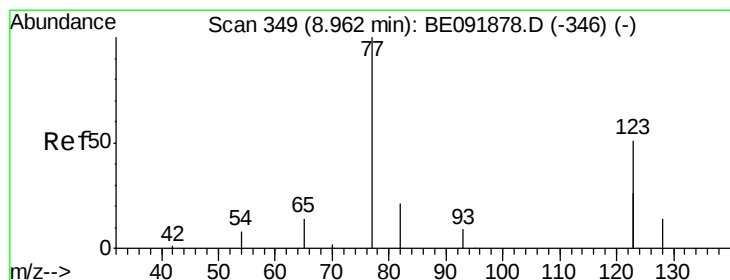
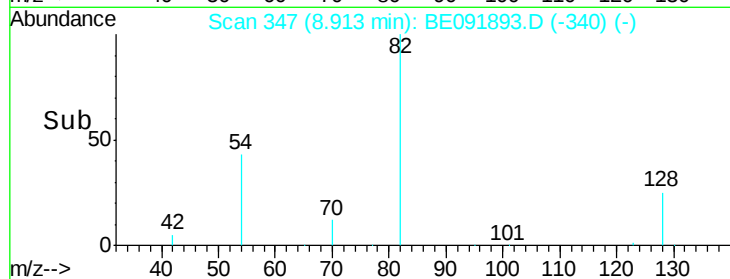
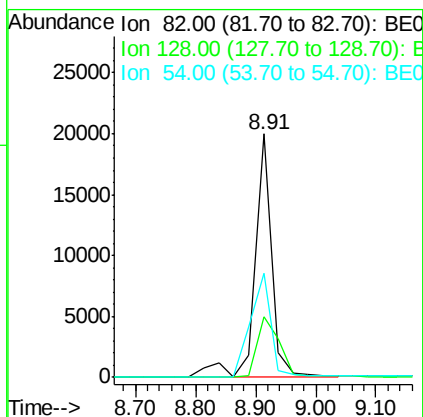
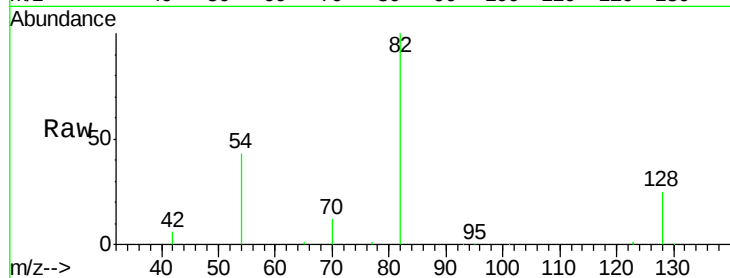




#9
 Nitrobenzene-d5
 Concen: 3.63 ng
 RT: 8.91 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: BE091893.D
 Acq: 8 Jun 2016 1:57

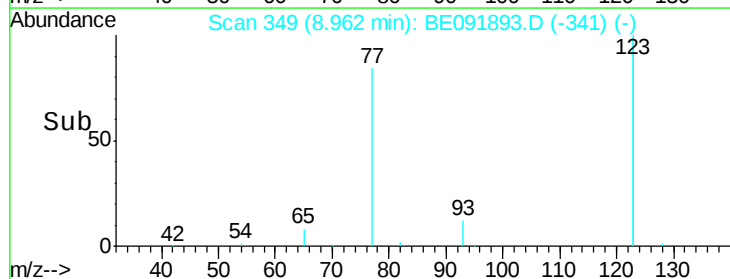
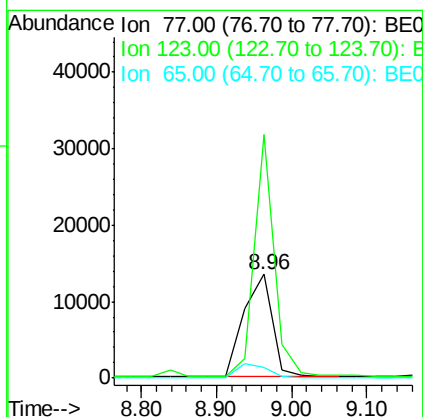
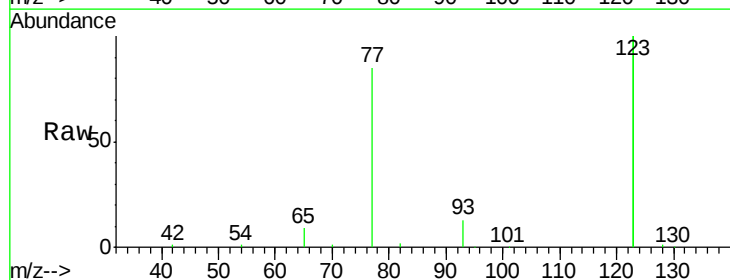
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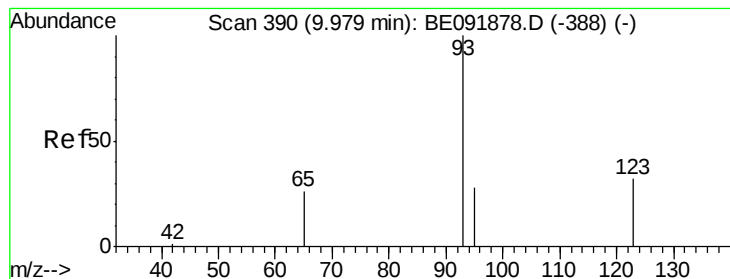
Tot Ion: 82 Resp: 38818
 Ion Ratio Lower Upper
 82 100
 128 24.9 39.5 59.3#
 54 42.8 30.3 45.5



#10
 Nitrobenzene
 Concen: 3.61 ng
 RT: 8.96 min Scan# 349
 Delta R.T. 0.00 min
 Lab File: BE091893.D
 Acq: 8 Jun 2016 1:57

Tgt Ion: 77 Resp: 35209
 Ion Ratio Lower Upper
 77 100
 123 165.9 0.0 0.0#
 65 0.0 11.1 16.7#





#11

bis(2-Chloroethoxy)methane

Concen: 3.54 ng

RT: 9.95 min Scan# 389

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

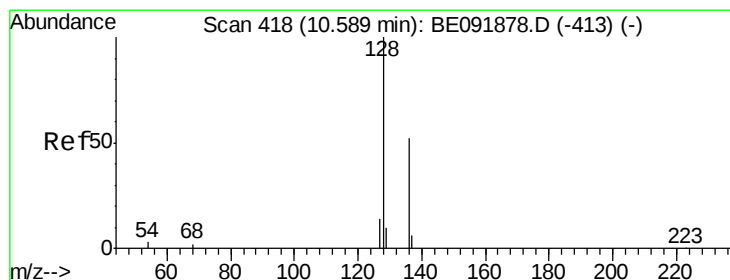
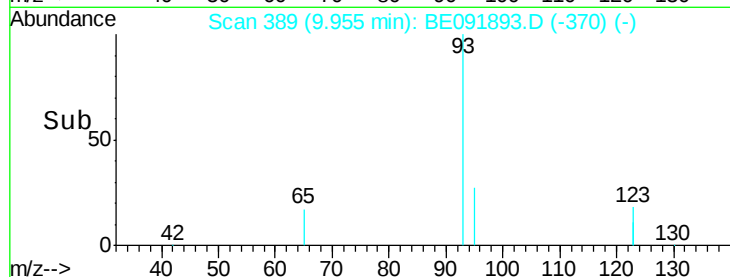
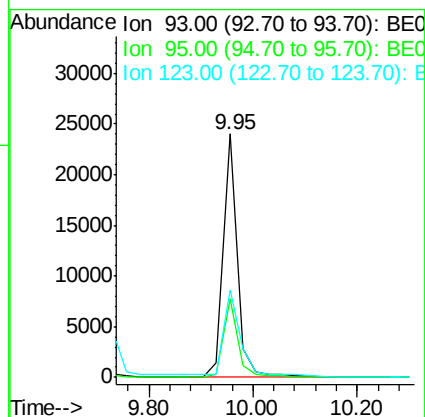
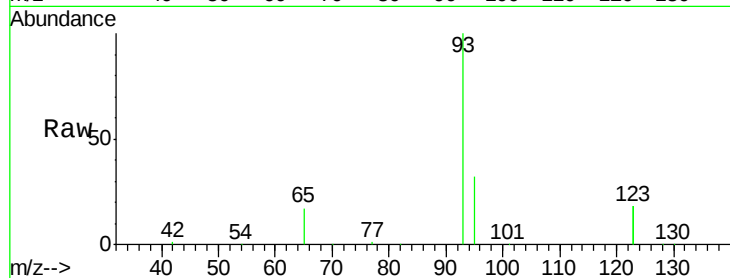
Tot Ion: 93 Resp: 51130

Ion Ratio Lower Upper

93 100

95 33.5 57.6 86.4#

123 45.1 100.2 150.4#



#12

Naphthalene

Concen: 3.50 ng

RT: 10.59 min Scan# 418

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

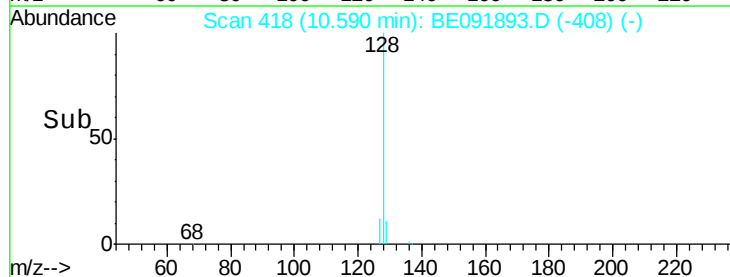
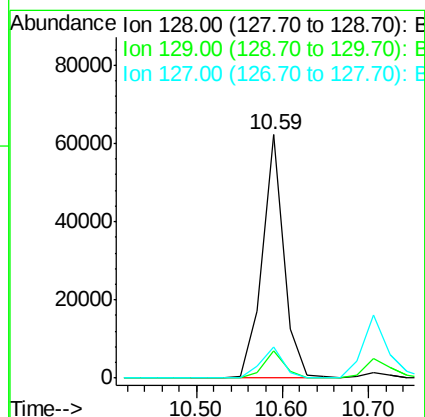
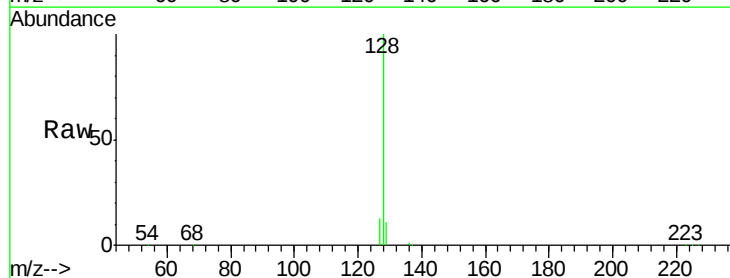
Tgt Ion: 128 Resp: 107314

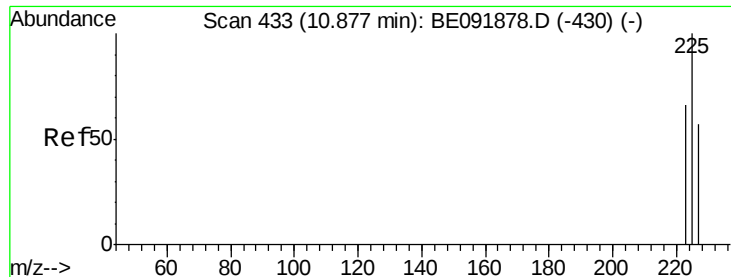
Ion Ratio Lower Upper

128 100

129 11.3 10.4 15.6

127 12.5 10.2 15.2

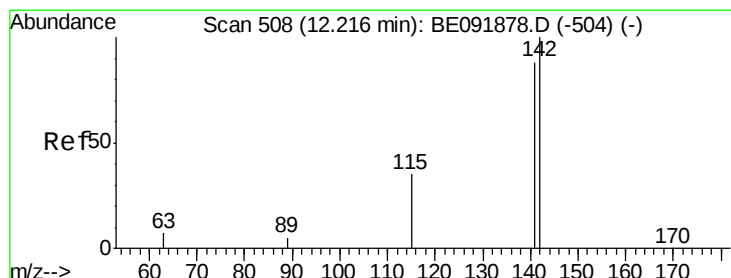
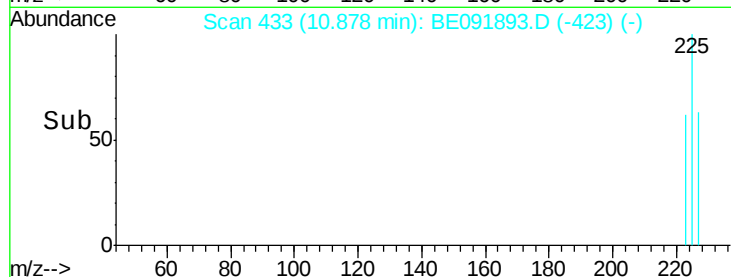
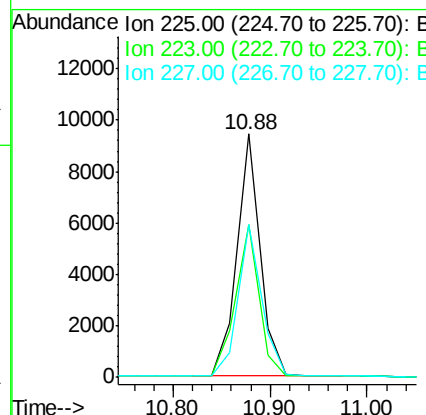
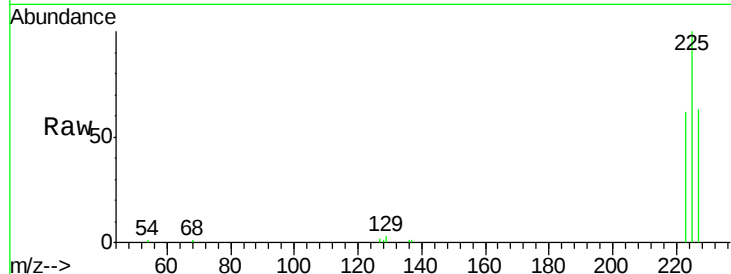




#13
Hexachlorobutadiene
Concen: 3.39 ng
RT: 10.88 min Scan# 433
Delta R.T. 0.00 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

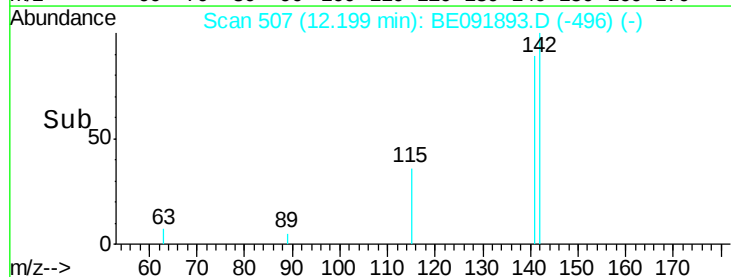
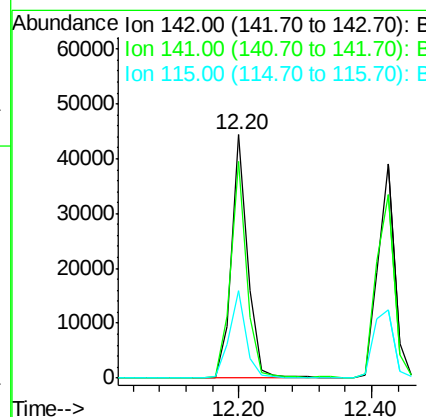
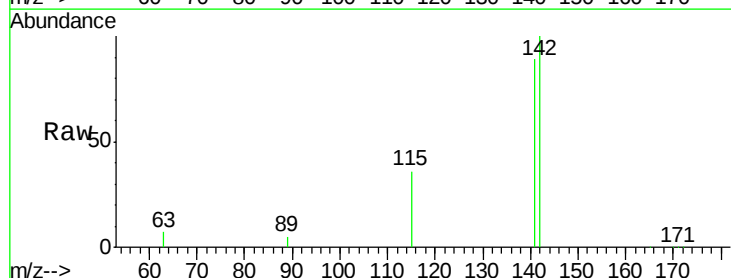
Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531MS

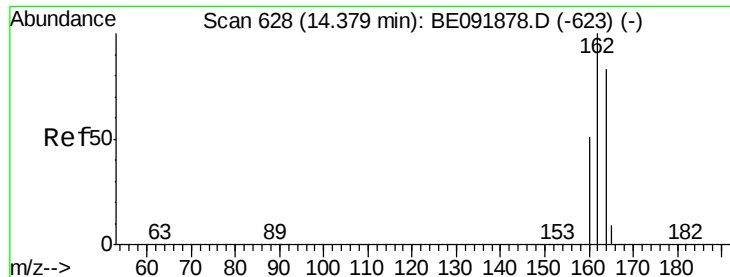
Tot Ion:225 Resp: 15487
Ion Ratio Lower Upper
225 100
223 63.5 49.8 74.8
227 63.7 50.6 75.8



#14
2-Methylnaphthalene
Concen: 3.80 ng
RT: 12.20 min Scan# 507
Delta R.T. -0.02 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

Tgt Ion:142 Resp: 75178
Ion Ratio Lower Upper
142 100
141 89.3 71.9 107.9
115 35.8 29.9 44.9





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

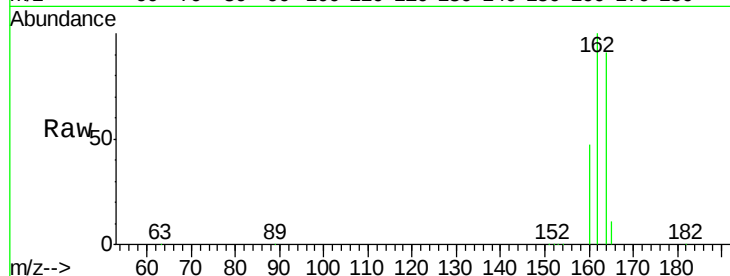
Tot Ion:164 Resp: 87718

Ion Ratio Lower Upper

164 100

162 109.6 71.8 107.8#

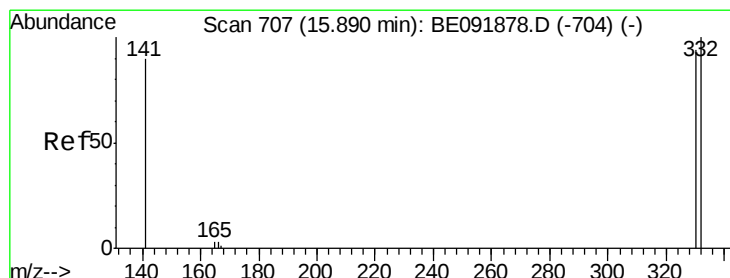
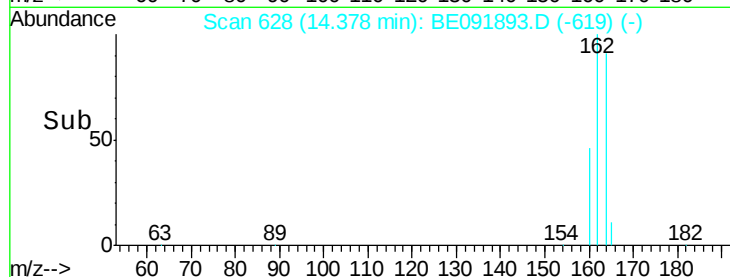
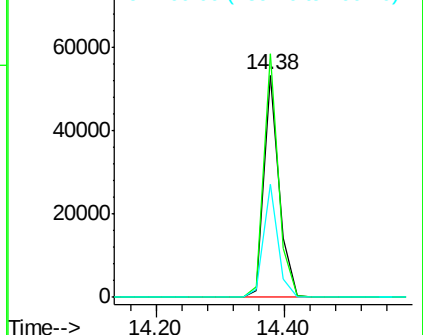
160 51.0 28.0 42.0#



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



#16

2,4,6-Tribromophenol

Concen: 8.32 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

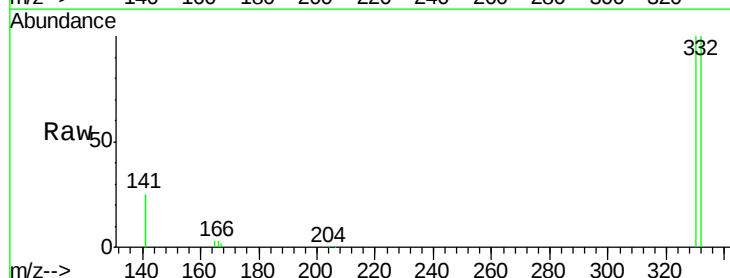
Tgt Ion:330 Resp: 20792

Ion Ratio Lower Upper

330 100

332 97.3 77.0 115.6

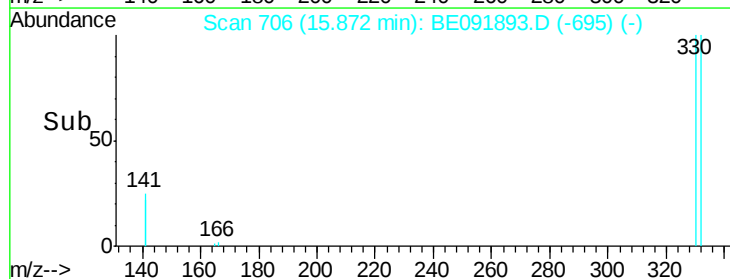
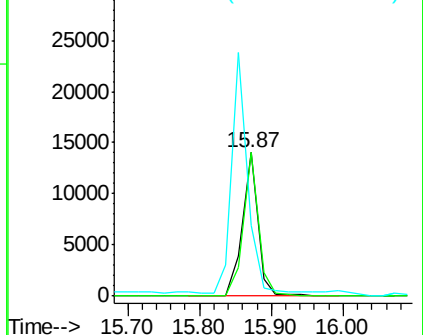
141 168.7 138.4 207.6

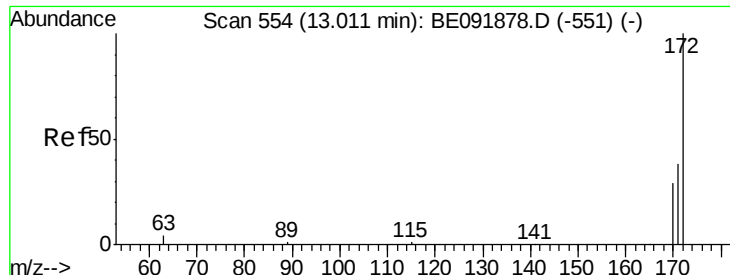


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

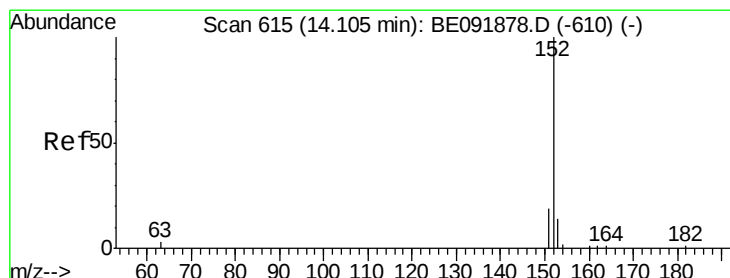
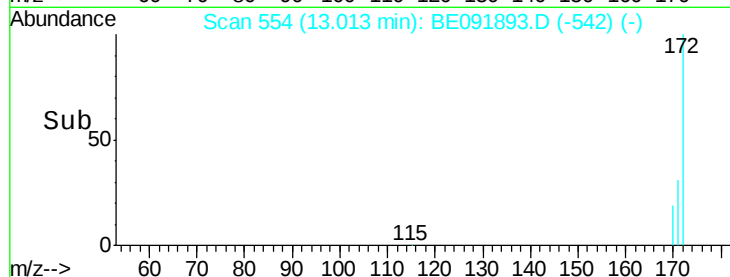
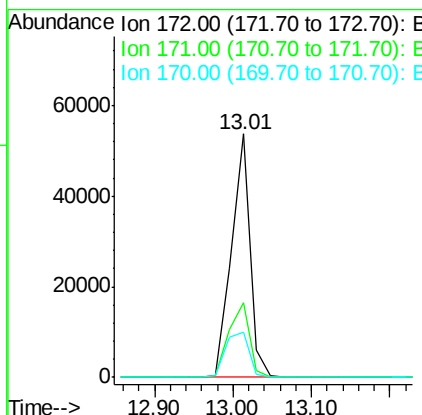
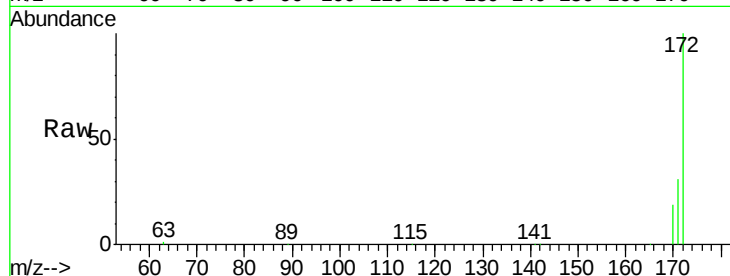




#17
2-Fluorobiphenyl
Concen: 3.31 ng
RT: 13.01 min Scan# 554
Delta R.T. 0.00 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

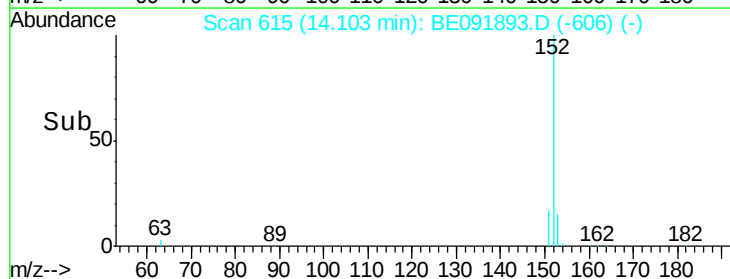
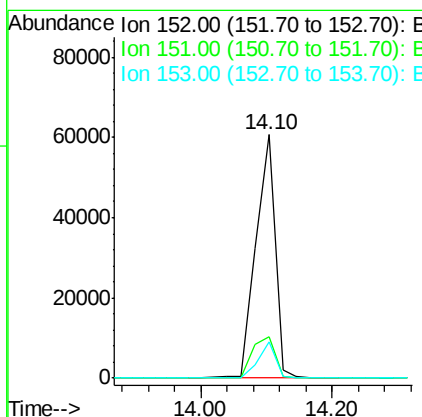
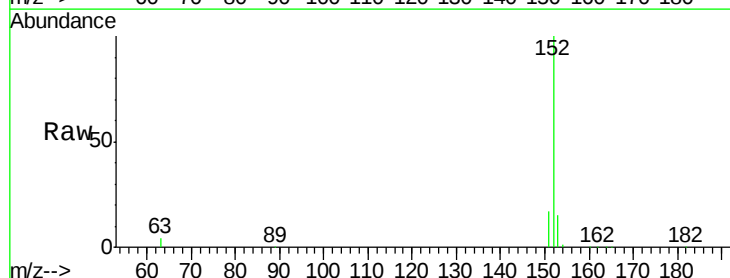
Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531MS

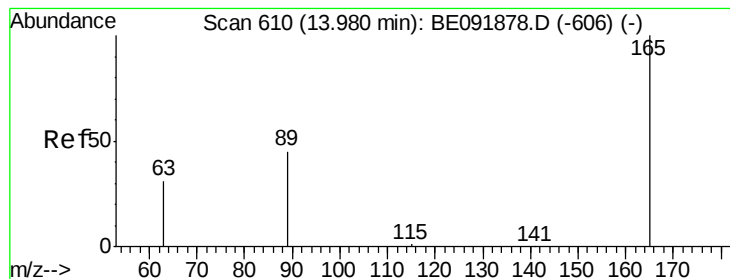
Tot Ion:172 Resp: 88175
Ion Ratio Lower Upper
172 100
171 30.8 24.3 36.5
170 18.8 14.9 22.3



#18
Acenaphthylene
Concen: 3.34 ng
RT: 14.10 min Scan# 615
Delta R.T. -0.00 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

Tgt Ion:152 Resp: 132682
Ion Ratio Lower Upper
152 100
151 20.1 19.4 29.2
153 13.7 14.4 21.6#





#19

2,6-Dinitrotoluene

Concen: 3.60 ng

RT: 13.96 min Scan# 609

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

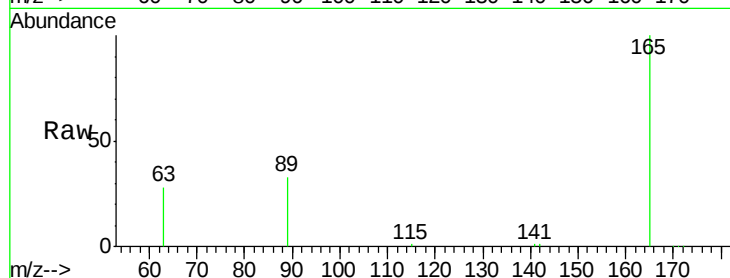
Tot Ion:165 Resp: 21277

Ion Ratio Lower Upper

165 100

63 83.2 65.9 98.9

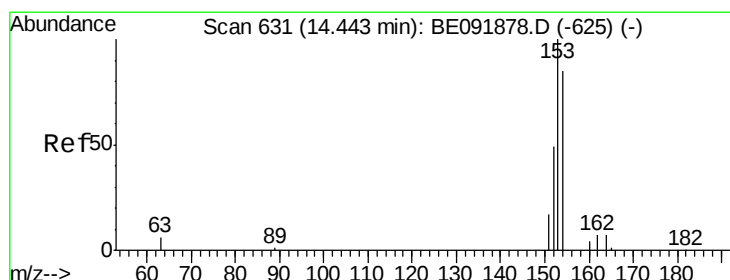
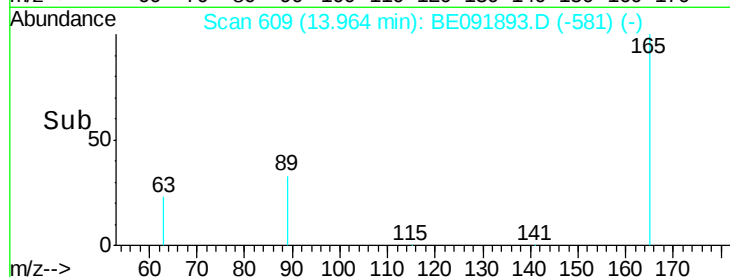
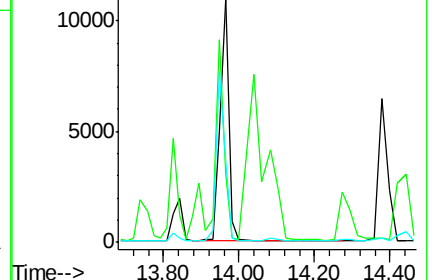
89 68.9 59.1 88.7



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0



#20

Acenaphthene

Concen: 3.49 ng

RT: 14.44 min Scan# 631

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

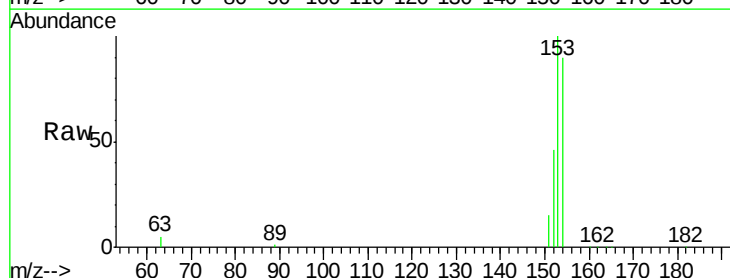
Tgt Ion:154 Resp: 84654

Ion Ratio Lower Upper

154 100

153 106.6 88.1 132.1

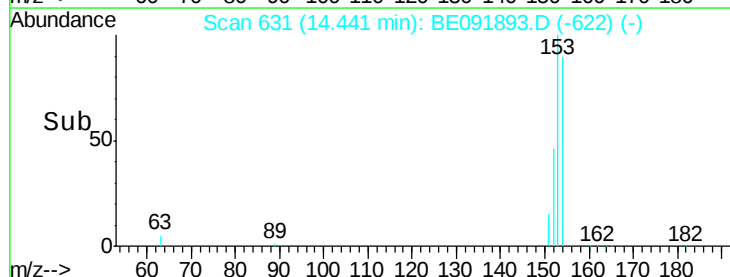
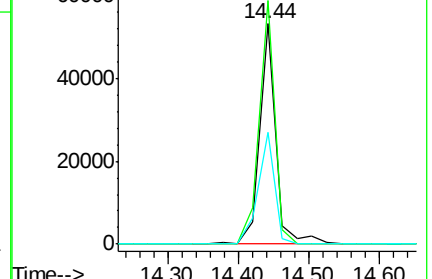
152 51.6 44.2 66.2

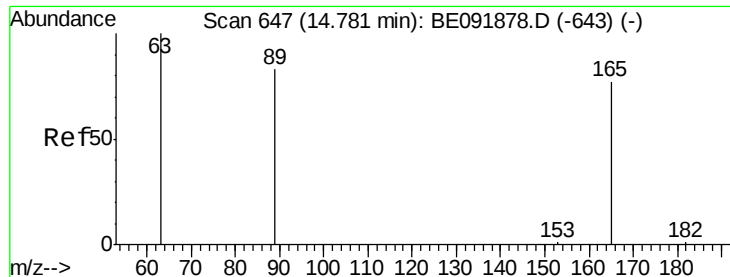


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

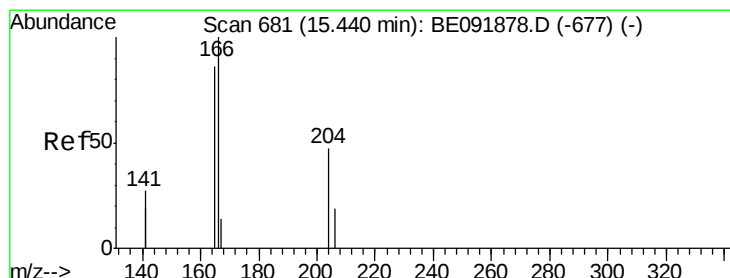
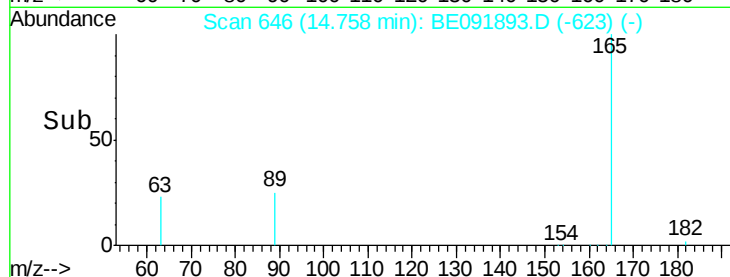
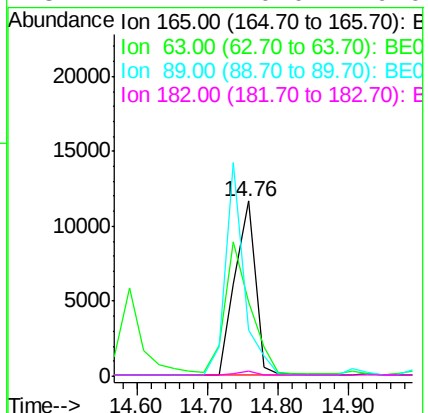
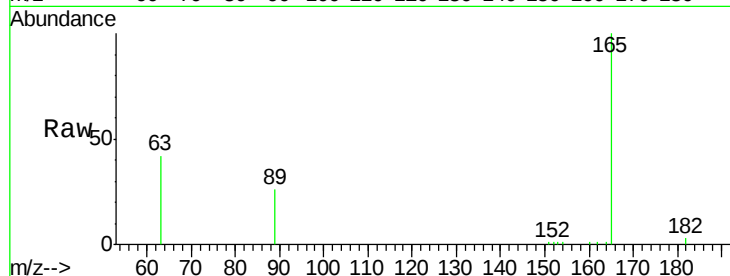




#21
2,4-Dinitrotoluene
Concen: 3.49 ng
RT: 14.76 min Scan# 646
Delta R.T. -0.02 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

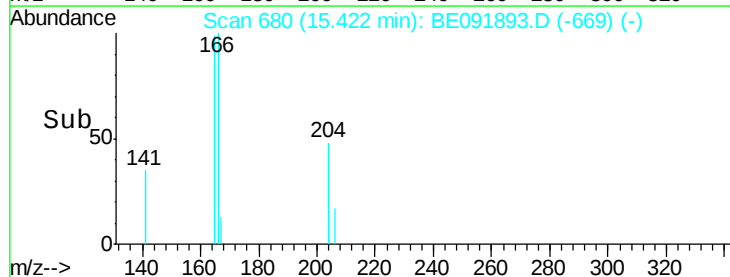
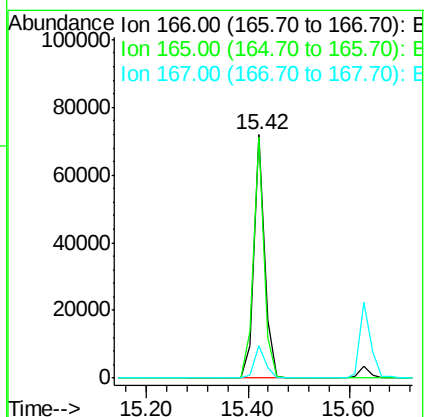
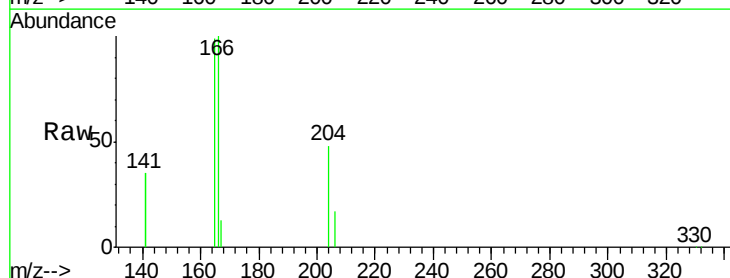
Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531MS

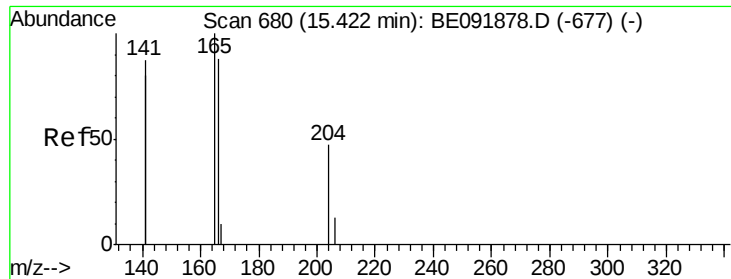
Tot Ion:165 Resp: 23474
Ion Ratio Lower Upper
165 100
63 0.0 0.0 0.0
89 0.0 99.8 149.8#
182 2.2 0.0 0.0#



#22
Fluorene
Concen: 3.49 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.02 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

Tgt Ion:166 Resp: 103555
Ion Ratio Lower Upper
166 100
165 98.2 78.6 117.8
167 13.7 10.8 16.2

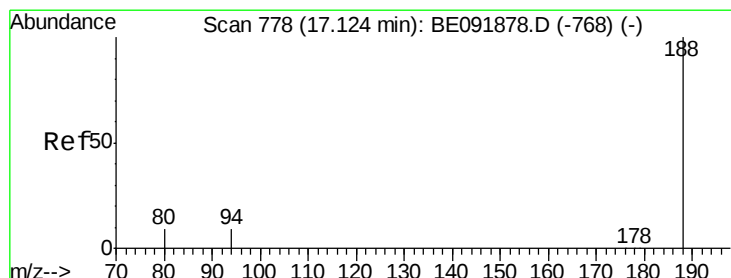
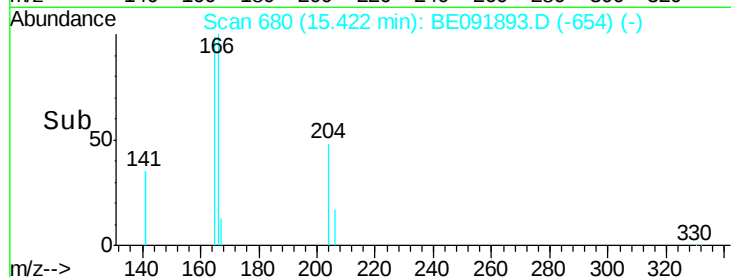
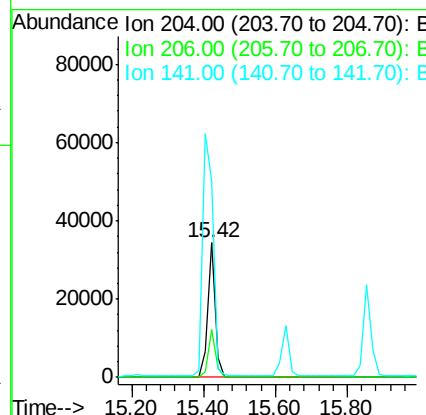
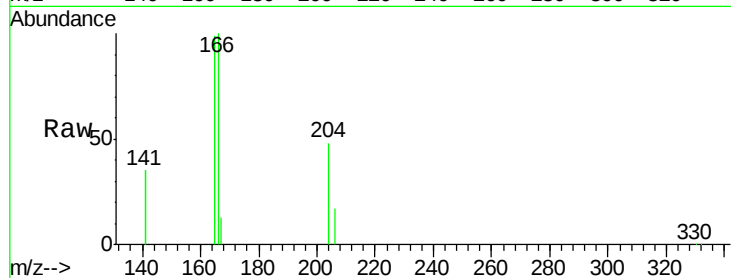




#23
4-Chlorophenyl-phenylether
Concen: 3.30 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.00 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

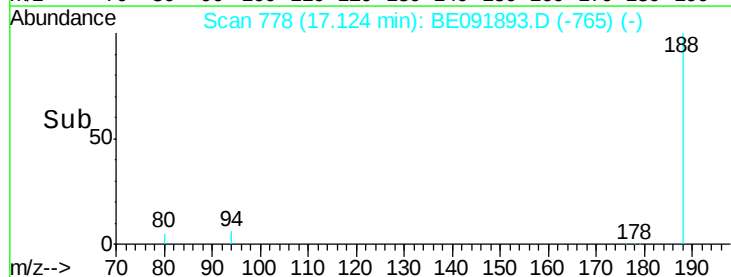
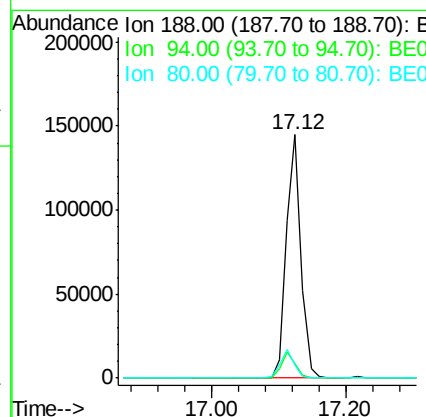
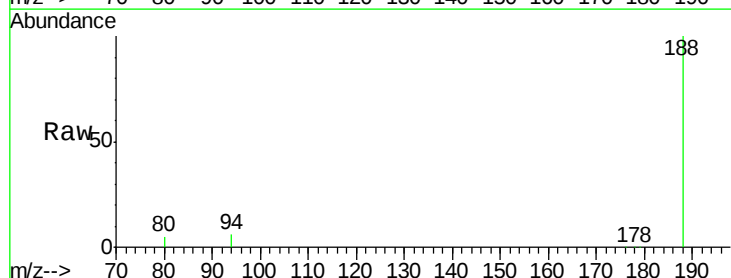
Instrument :
BNA_E
ClientSampleId :
OM-SPN-001-160531MS

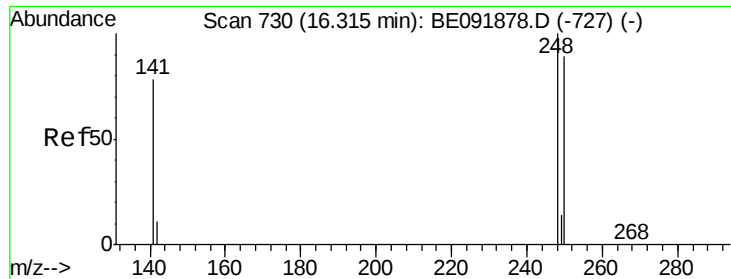
Tot Ion:204 Resp: 48037
Ion Ratio Lower Upper
204 100
206 35.0 27.8 41.6
141 251.0 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.12 min Scan# 778
Delta R.T. 0.00 min
Lab File: BE091893.D
Acq: 8 Jun 2016 1:57

Tgt Ion:188 Resp: 259112
Ion Ratio Lower Upper
188 100
94 6.1 4.1 6.1
80 5.3 3.4 5.2#





#25

4-Bromophenyl-phenylether

Concen: 3.19 ng

RT: 16.31 min Scan# 730

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

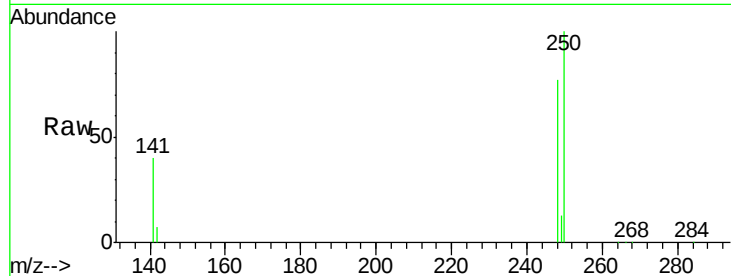
Tot Ion:248 Resp: 29671

Ion Ratio Lower Upper

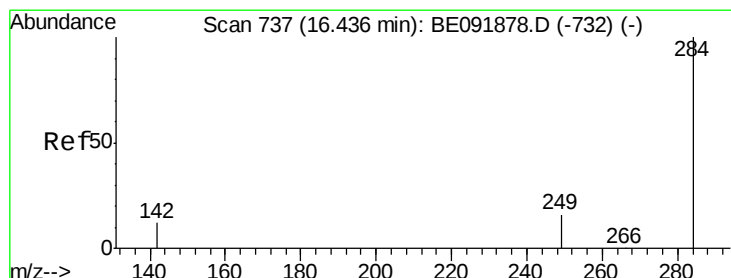
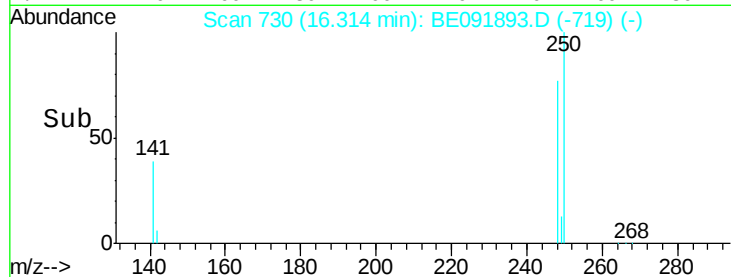
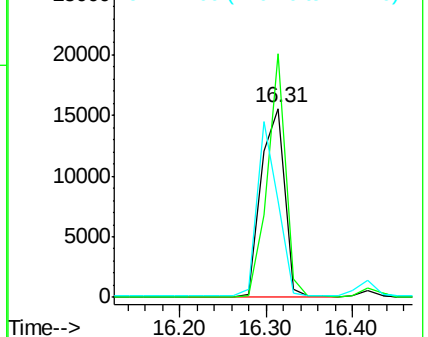
248 100

250 99.4 75.7 113.5

141 81.5 64.6 97.0



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E



#26

Hexachlorobenzene

Concen: 3.16 ng

RT: 16.44 min Scan# 737

Delta R.T. -0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

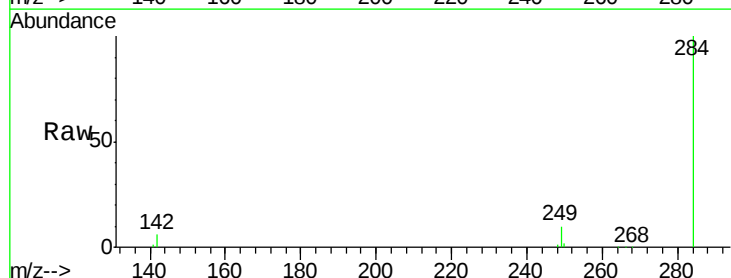
Tgt Ion:284 Resp: 30100

Ion Ratio Lower Upper

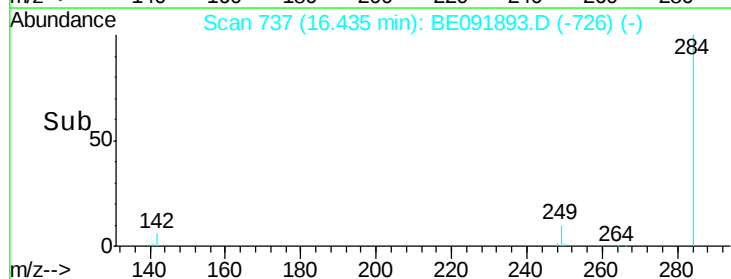
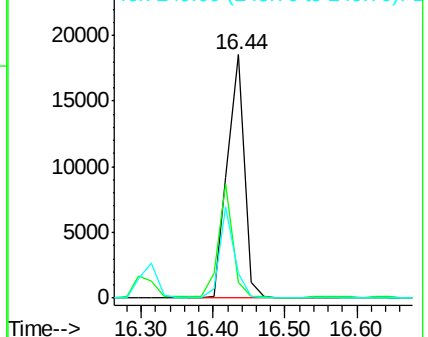
284 100

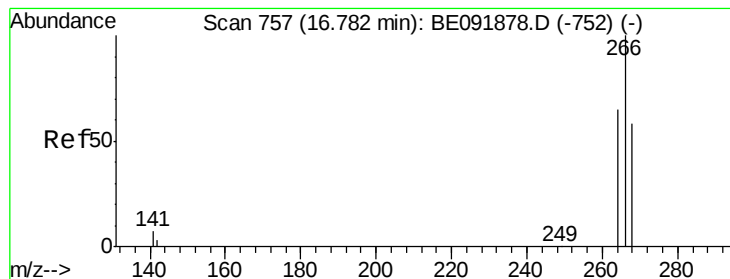
142 40.0 31.4 47.2

249 32.5 25.3 37.9



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





#27

Pentachlorophenol

Concen: 6.35 ng

RT: 16.76 min Scan# 756

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

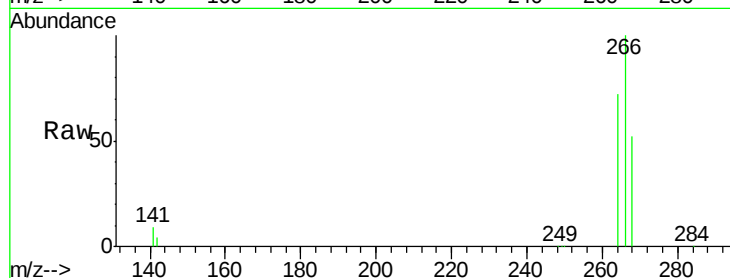
Tot Ion:266 Resp: 30483

Ion Ratio Lower Upper

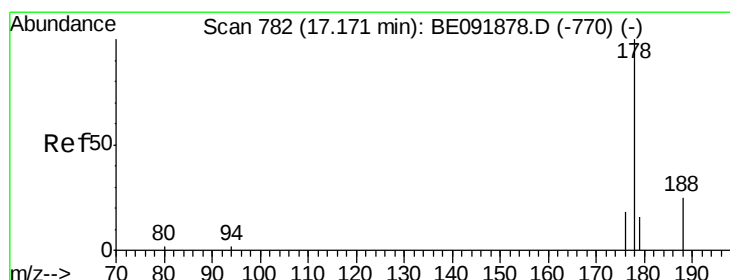
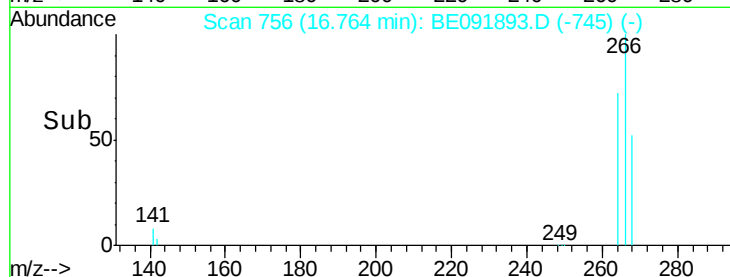
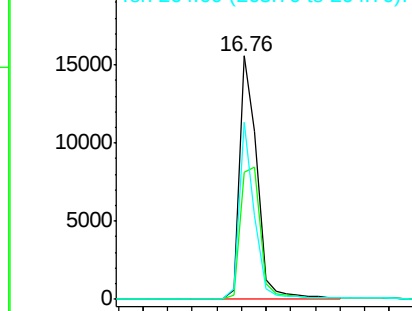
266 100

268 52.1 60.5 90.7#

264 72.5 51.0 76.4



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



#28

Phenanthrene

Concen: 3.10 ng

RT: 17.16 min Scan# 781

Delta R.T. -0.01 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

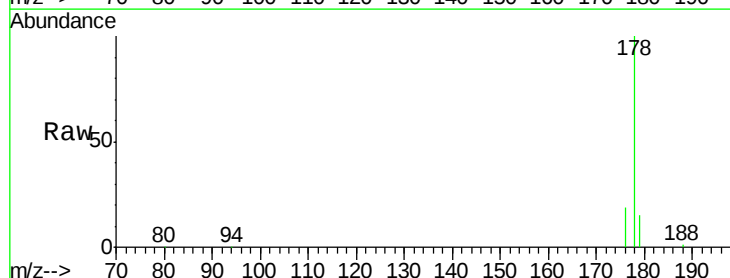
Tgt Ion:178 Resp: 185951

Ion Ratio Lower Upper

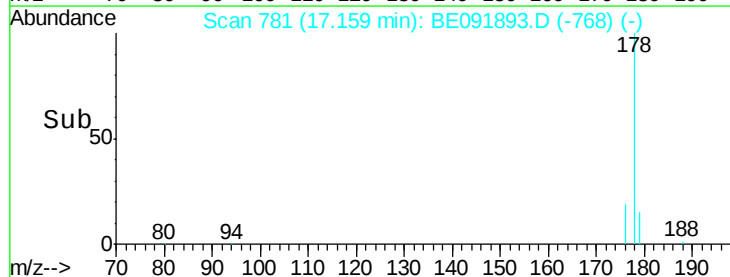
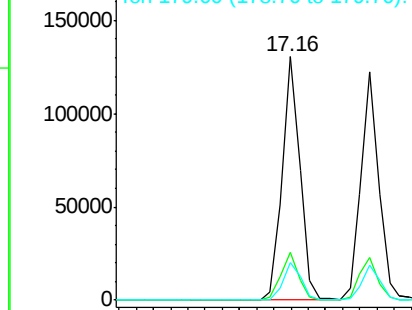
178 100

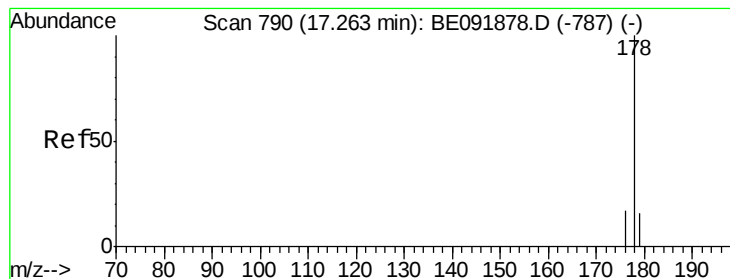
176 19.3 15.4 23.2

179 15.6 12.9 19.3



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





#29

Anthracene

Concen: 3.33 ng

RT: 17.25 min Scan# 789

Delta R.T. -0.01 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

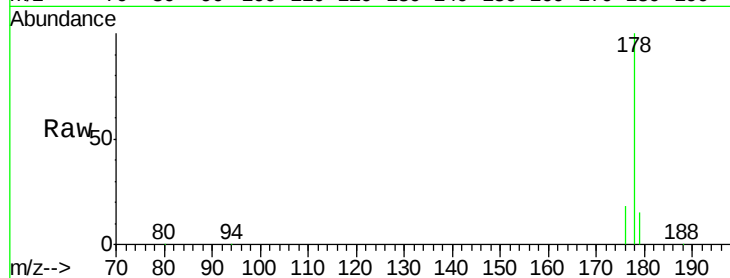
Tot Ion:178 Resp: 177813

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

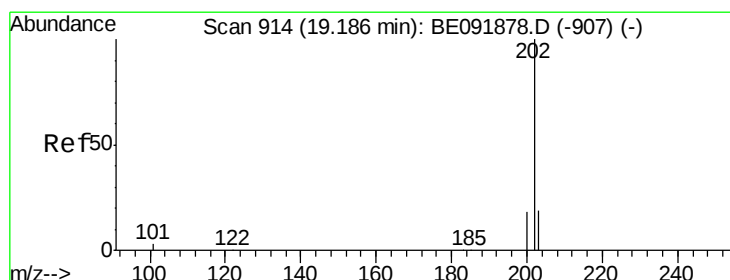
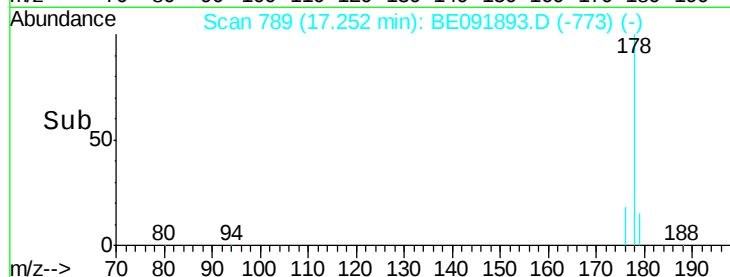
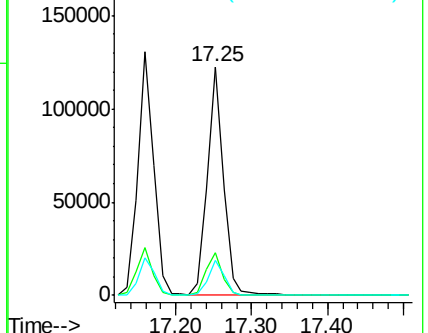
179 15.4 12.1 18.1



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



#30

Fluoranthene

Concen: 3.51 ng

RT: 19.17 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

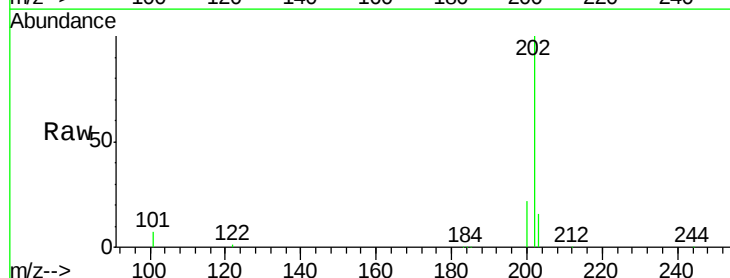
Tgt Ion:202 Resp: 227536

Ion Ratio Lower Upper

202 100

101 10.6 9.4 14.0

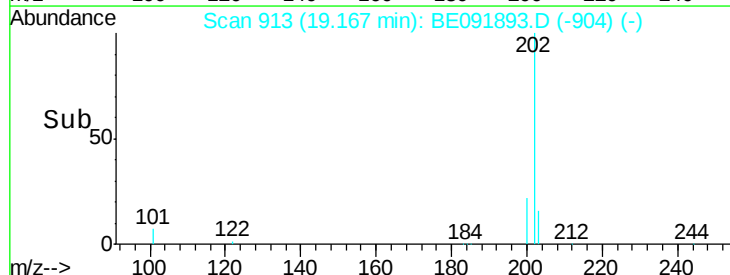
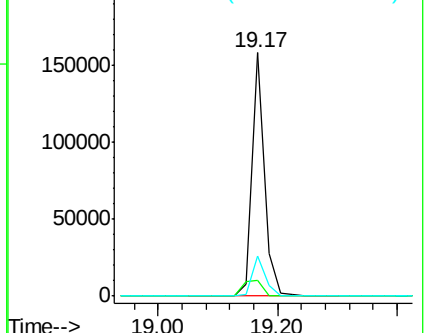
203 17.3 14.3 21.5

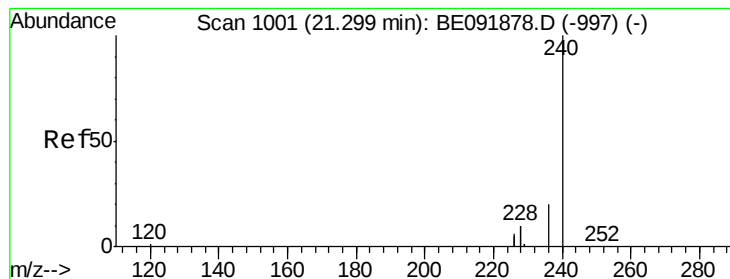


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.27 min Scan# 1000

Delta R.T. -0.03 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

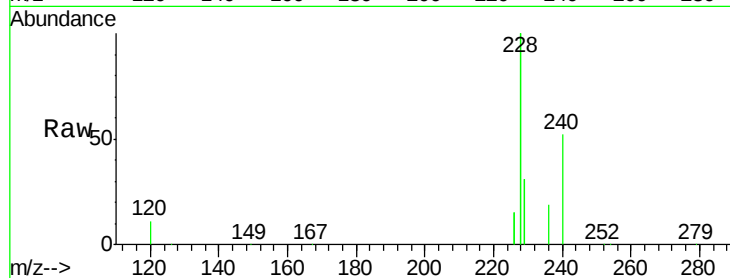
Tot Ion:240 Resp: 206735

Ion Ratio Lower Upper

240 100

120 20.8 1.2 1.8#

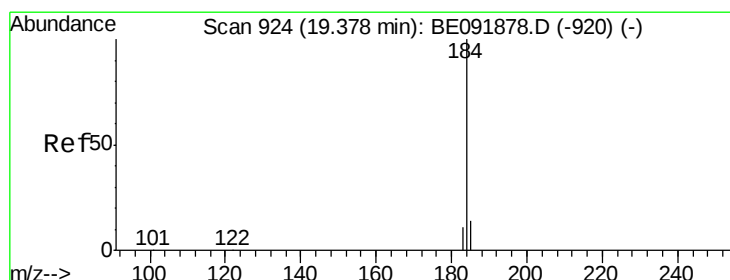
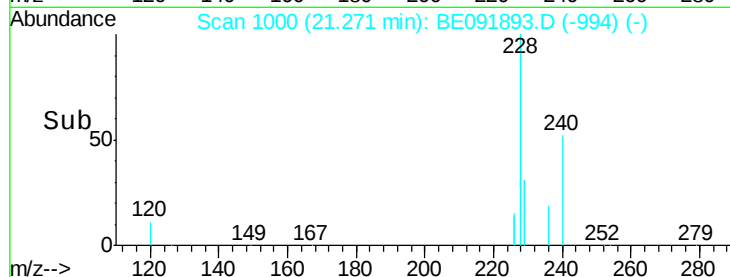
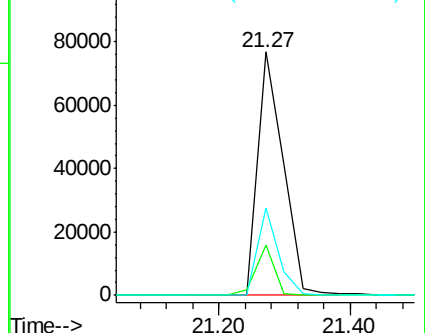
236 35.8 19.8 29.8#



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



#32

Benzidine

Concen: 0.19 ng

RT: 19.38 min Scan# 924

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

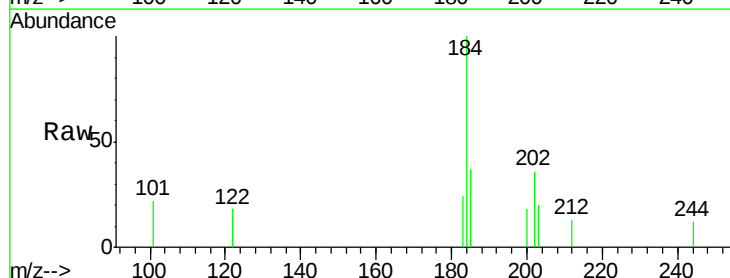
Tgt Ion:184 Resp: 1557

Ion Ratio Lower Upper

184 100

185 36.8 11.4 17.2#

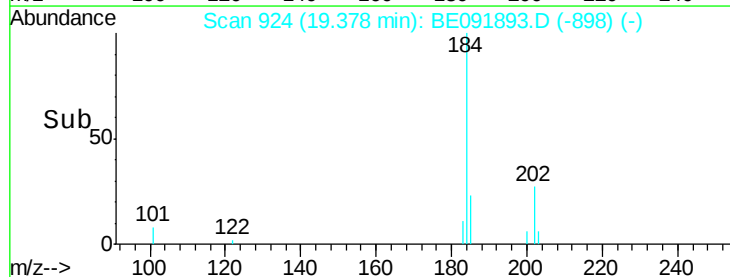
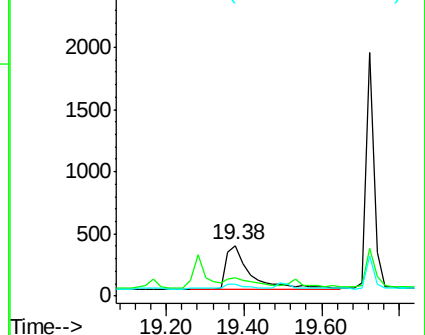
183 23.8 11.8 17.6#

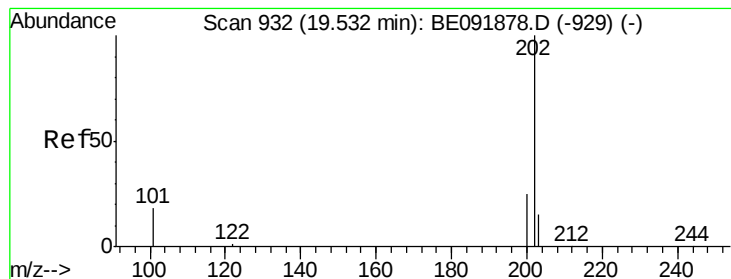


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#33

Pvrene

Concen: 4.79 ng

RT: 19.53 min Scan# 932

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

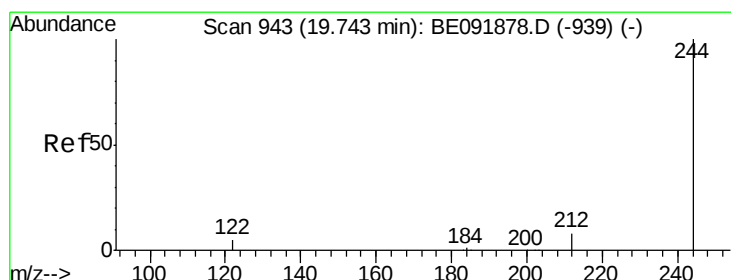
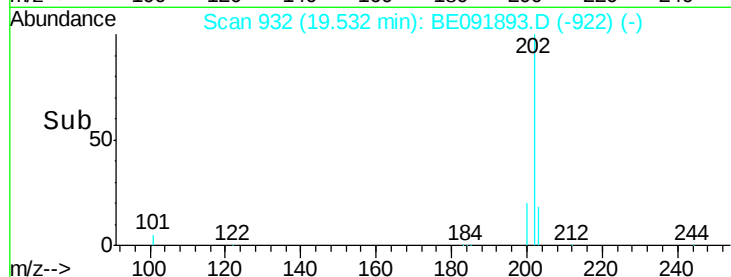
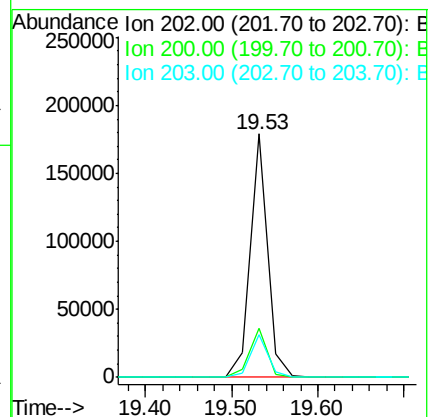
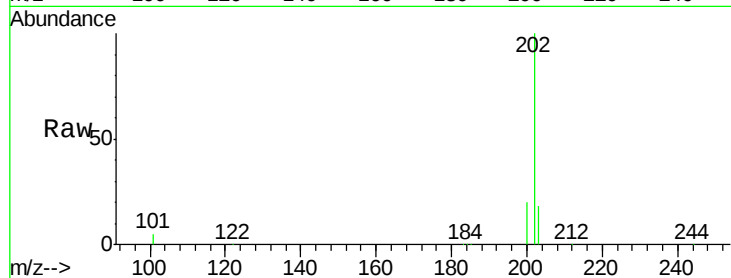
Tot Ion:202 Resp: 249655

Ion Ratio Lower Upper

202 100

200 20.8 16.9 25.3

203 18.2 14.1 21.1



#34

Terphenyl-d14

Concen: -5.00 ng

RT: 19.74 min Scan# 943

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

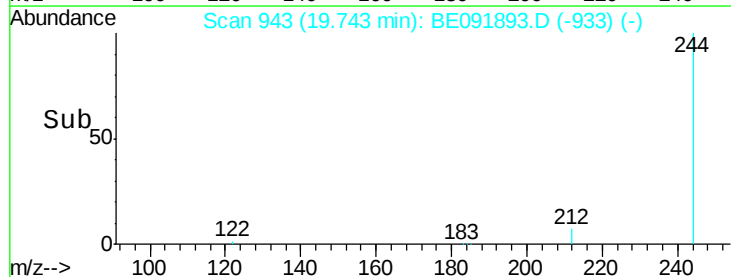
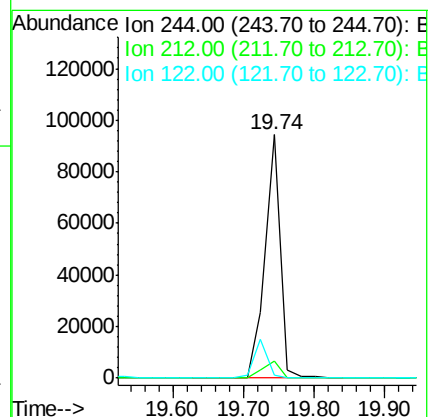
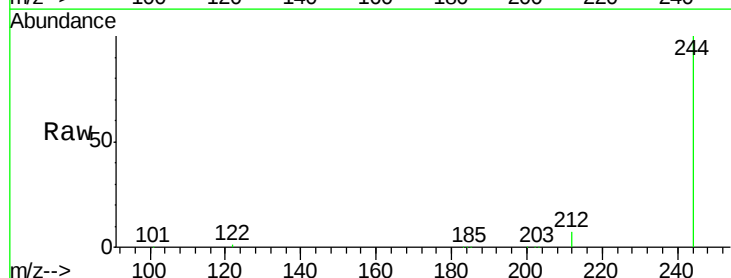
Tgt Ion:244 Resp: 143745

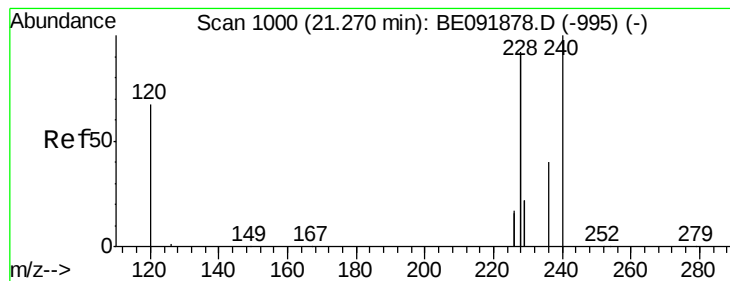
Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

122 1.0 2.9 4.3#





#35

Benzo(a)anthracene

Concen: 4.59 ng/mL

RT: 21.27 min Scan# 1000

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

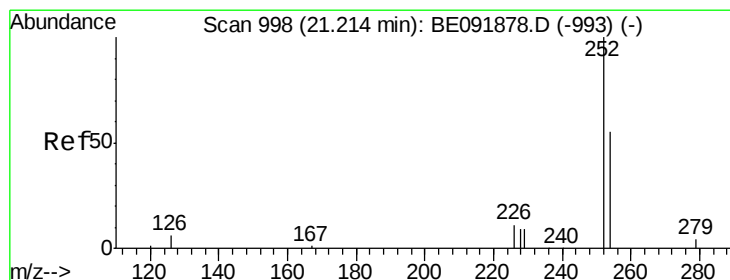
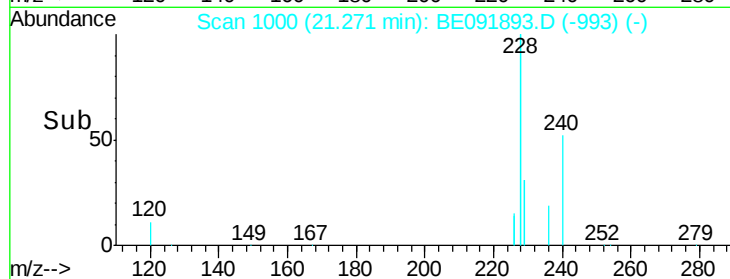
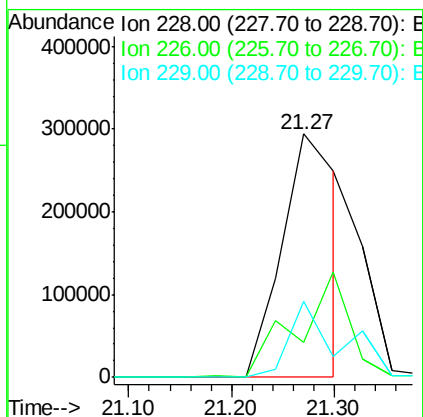
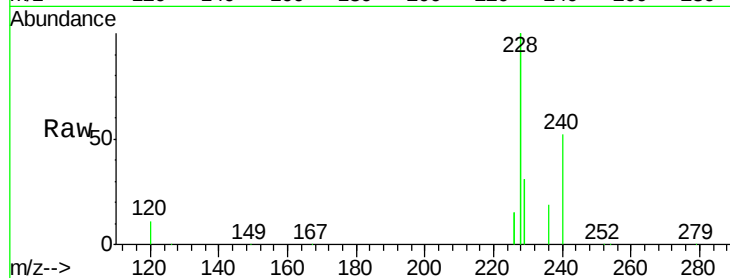
Tot Ion:228 Resp: 1130360

Ion Ratio Lower Upper

228 100

226 14.6 21.0 31.4#

229 31.3 15.8 23.8#



#36

3,3'-Dichlorobenzidine

Concen: 3.07 ng/mL

RT: 21.21 min Scan# 998

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

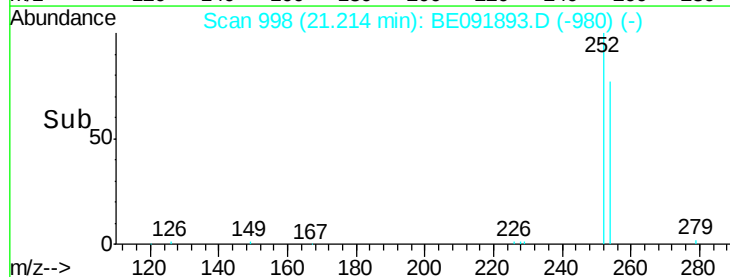
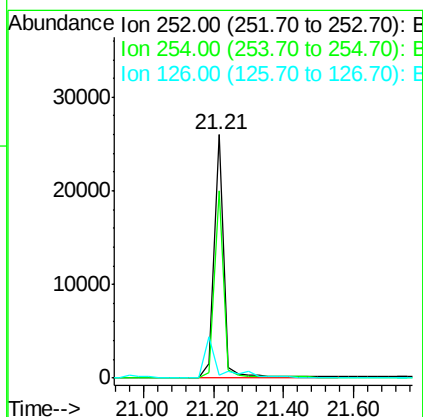
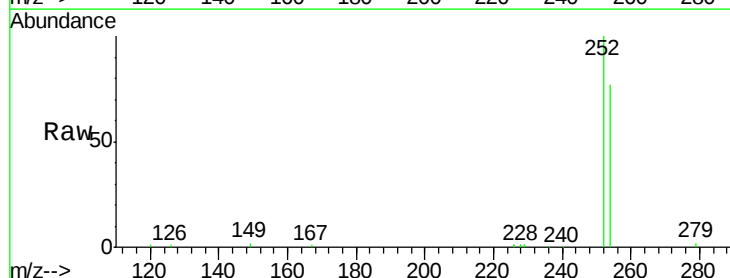
Tgt Ion:252 Resp: 50759

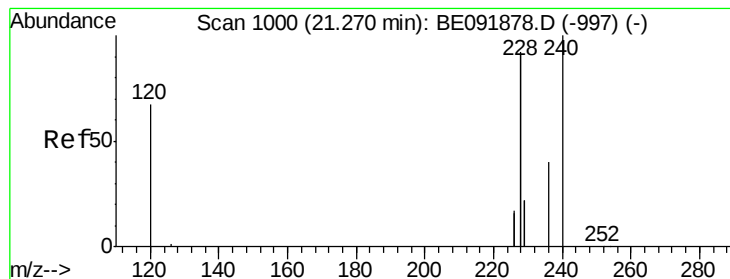
Ion Ratio Lower Upper

252 100

254 76.8 61.5 92.3

126 1.1 2.5 3.7#





#37

Chrysene

Concen: 1.41 ng/mL

RT: 21.30 min Scan# 1001

Delta R.T. -0.03 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

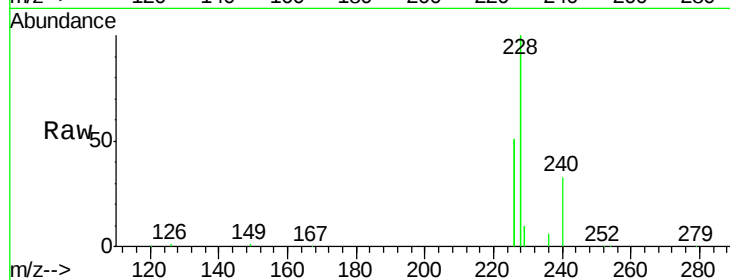
Tot Ion: 228 Resp: 296691

Ion Ratio Lower Upper

228 100

226 51.2 27.0 40.6#

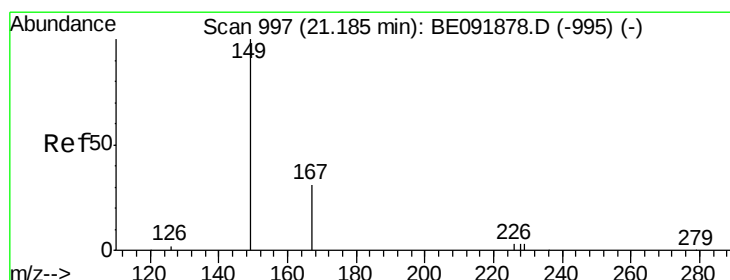
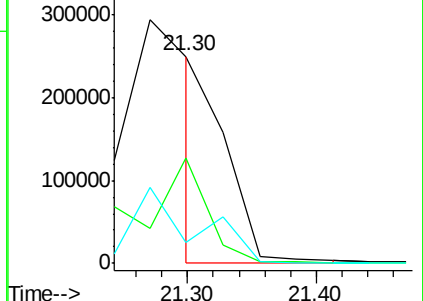
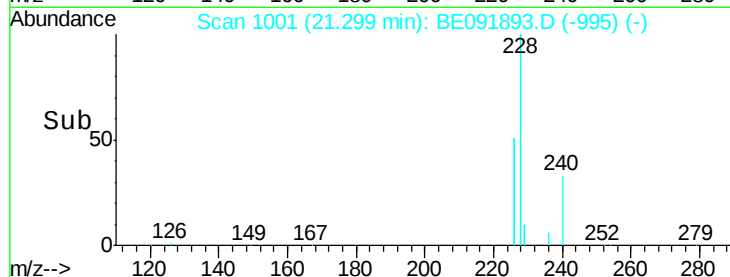
229 10.2 13.8 20.8#



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 2.48 ng/mL

RT: 21.19 min Scan# 997

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

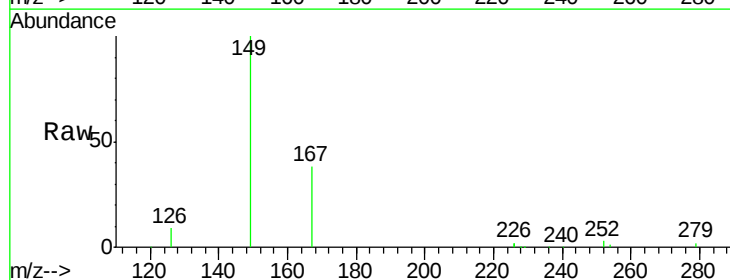
Tgt Ion: 149 Resp: 92029

Ion Ratio Lower Upper

149 100

167 36.2 0.0 0.0#

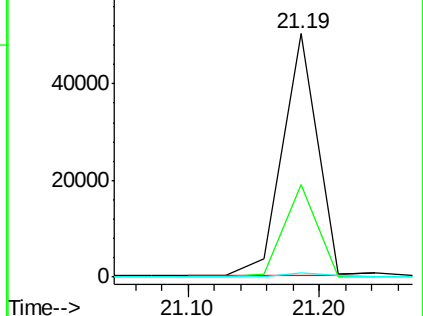
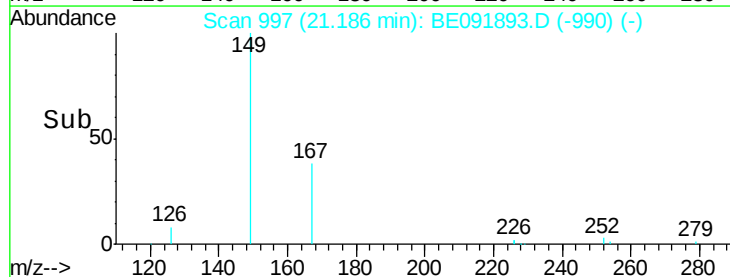
279 2.2 0.0 0.0#

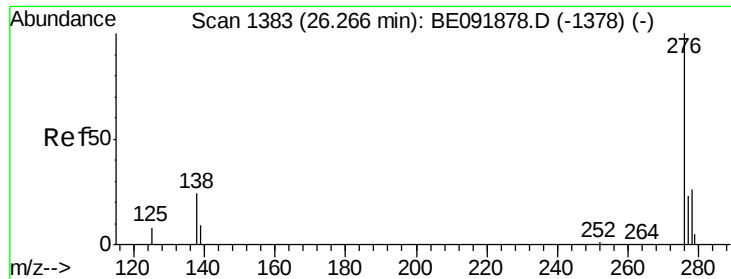


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: 4.37 ng

RT: 26.27 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

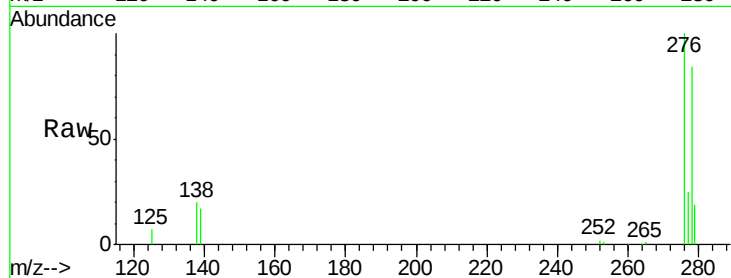
Tot Ion:276 Resp: 275351

Ion Ratio Lower Upper

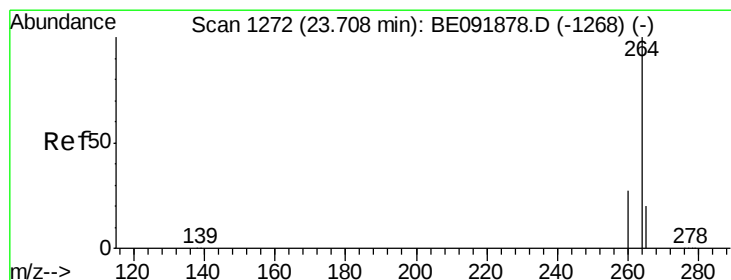
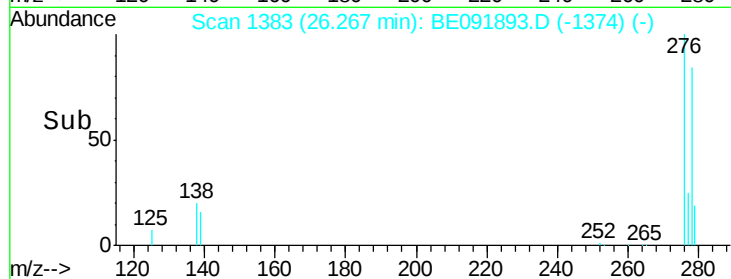
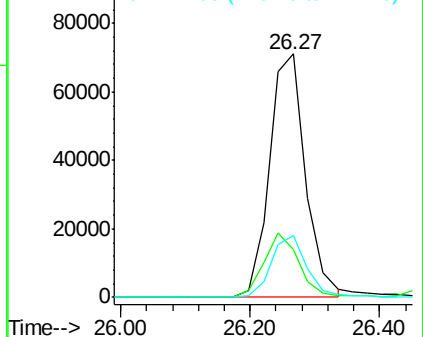
276 100

138 0.0 19.7 29.5#

277 24.7 20.1 30.1



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



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1272

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

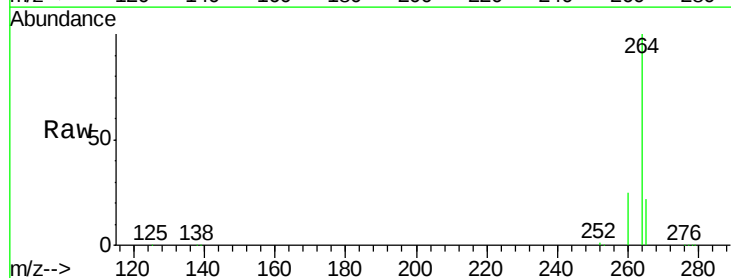
Tgt Ion:264 Resp: 277448

Ion Ratio Lower Upper

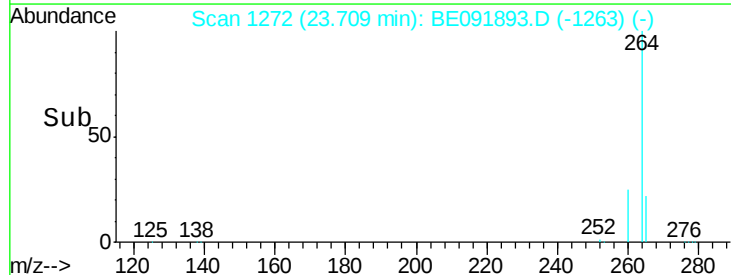
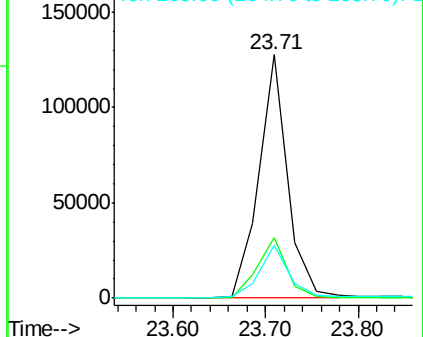
264 100

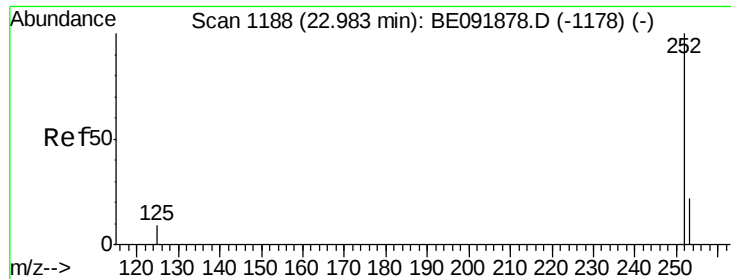
260 24.7 20.3 30.5

265 21.9 17.6 26.4



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





#41

Benzo(b)fluoranthene

Concen: 3.80 ng

RT: 22.97 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

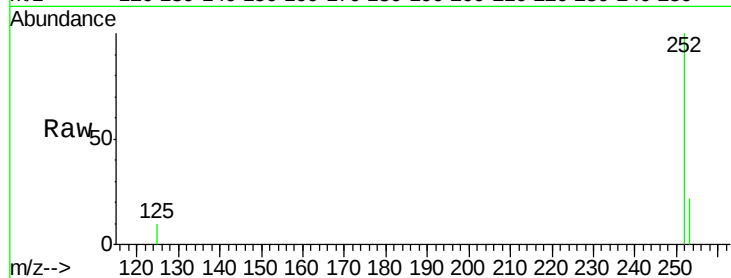
Tot Ion:252 Resp: 257886

Ion Ratio Lower Upper

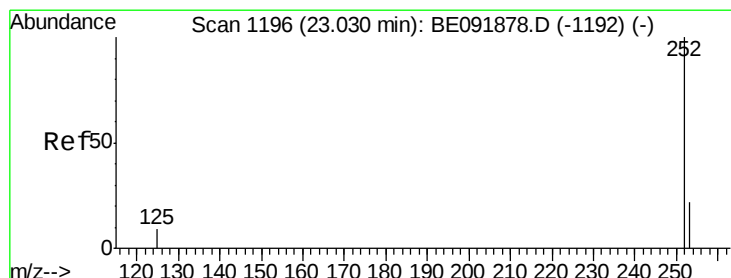
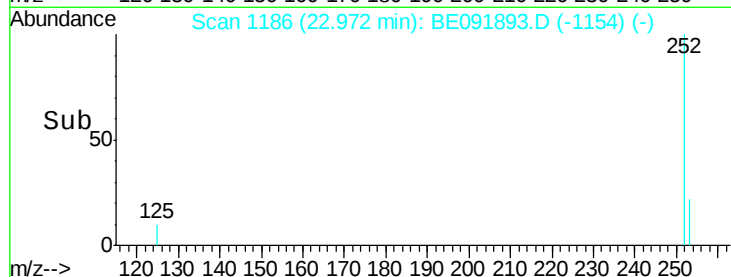
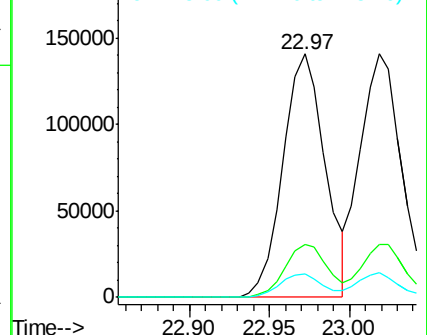
252 100

253 21.7 17.8 26.6

125 9.8 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



#42

Benzo(k)fluoranthene

Concen: 3.72 ng

RT: 23.02 min Scan# 1194

Delta R.T. -0.01 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

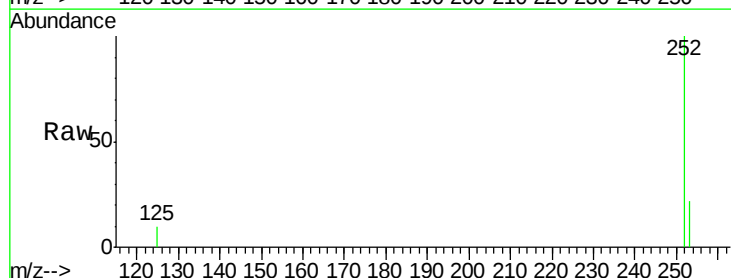
Tgt Ion:252 Resp: 261520

Ion Ratio Lower Upper

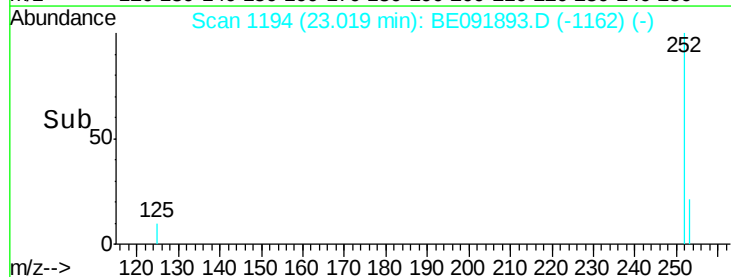
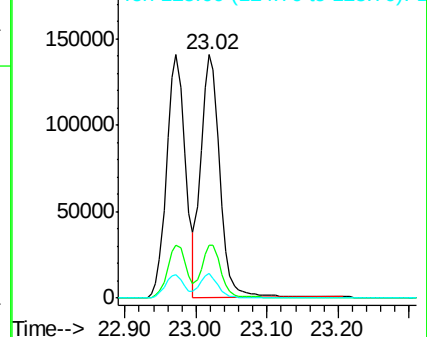
252 100

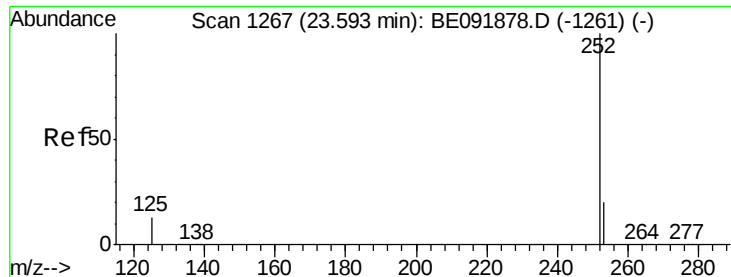
253 21.5 19.4 29.2

125 10.0 8.3 12.5



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





#43

Benzo(a)pyrene

Concen: 3.92 ng

RT: 23.59 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

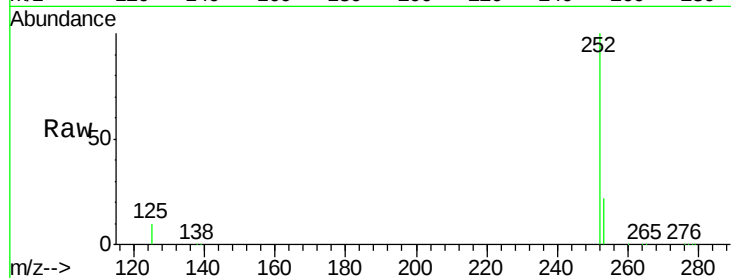
Tot Ion:252 Resp: 249185

Ion Ratio Lower Upper

252 100

253 22.2 18.9 28.3

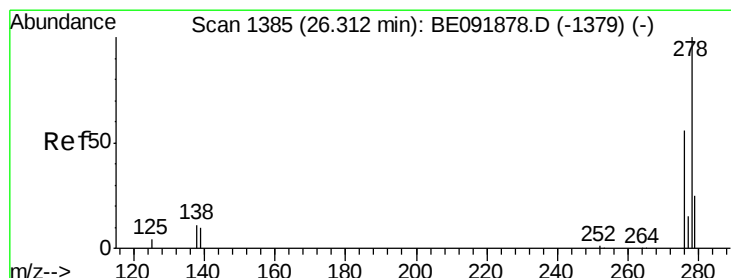
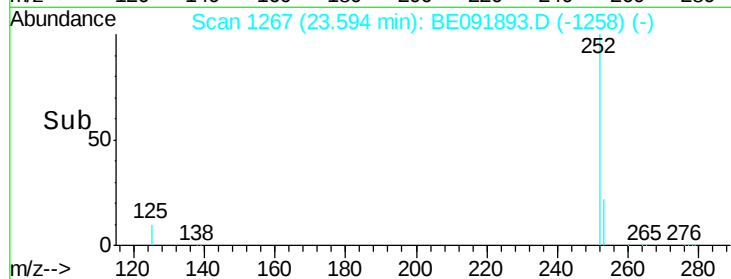
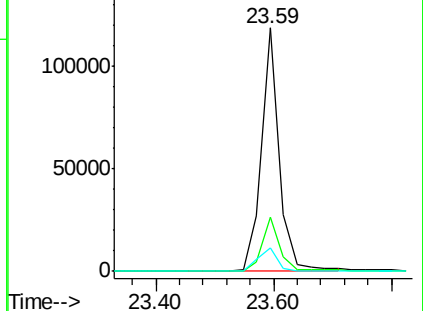
125 9.8 10.5 15.7#



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



#44

Dibenzo(a,h)anthracene

Concen: 3.93 ng

RT: 26.29 min Scan# 1384

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

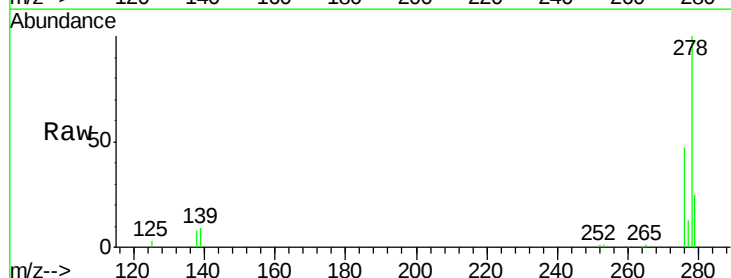
Tgt Ion:278 Resp: 233197

Ion Ratio Lower Upper

278 100

139 8.7 12.6 18.8#

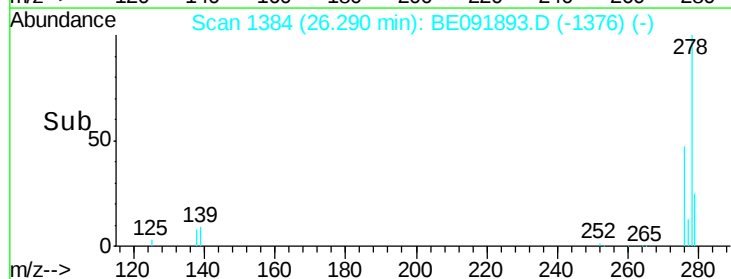
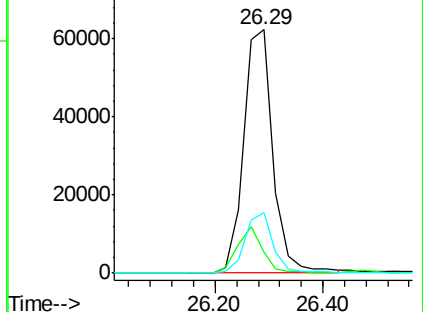
279 25.1 20.0 30.0

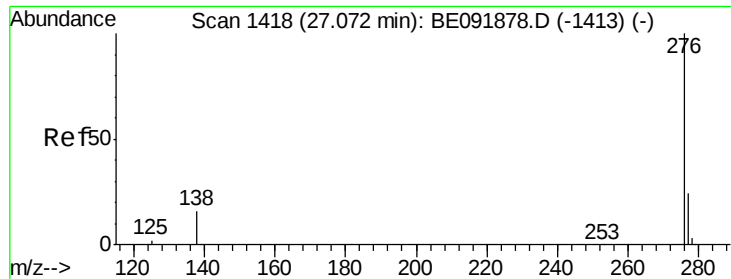


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#45

Benzo(a,h,i)perylene

Concen: 3.85 ng

RT: 27.05 min Scan# 1417

Delta R.T. -0.02 min

Lab File: BE091893.D

Acq: 8 Jun 2016 1:57

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MS

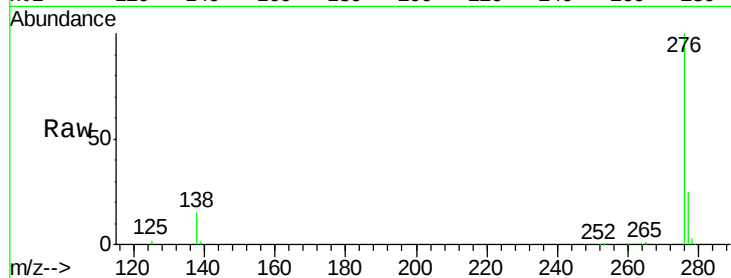
Tot Ion: 276 Resp: 239040

Ion Ratio Lower Upper

276 100

277 24.6 19.5 29.3

138 14.7 17.7 26.5#



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

