Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE051616\
Data File : BE091778.D
Acq On : 16 May 2016 17:52
Operator : UM/SJ
Sample : PB90589BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_E
ClientSampleId : PB90589BS

Manual Integrations APPROVED
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Quant Time: May 17 04:31:41 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE042616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 26 16:09:46 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	47933	5.00	ng		0.00
7) Naphthalene-d8	10.57	136	237108	5.00	ng		0.00
13) Acenaphthene-d10	14.40	164	140631	5.00	ng		-0.01
19) Phenanthrene-d10	17.15	188	361181	5.00	ng		0.00
26) Chrysene-d12	21.31	240	313486	5.00	ng		0.00
35) Perylene-d12	23.75	264	323974	5.00	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.39	112	68944	5.86	ng		0.00
5) Phenol-d6	6.95	99	103664	6.64	ng		0.00
8) Nitrobenzene-d5	8.95	82	46254	3.02	ng		0.00
14) 2,4,6-Tribromophenol	15.89	330	32014	6.15	ng		-0.01
15) 2-Fluorobiphenyl	13.04	172	131845	3.31	ng		0.00
29) Terphenyl-d14	19.76	244	190980	3.91	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.33	88	16092	2.84	ng		95
3) n-Nitrosodimethylamine	3.63	42	25310	2.91	ng	#	94
6) bis(2-Chloroethyl)ether	7.21	93	43545	3.17	ng	#	76
9) Nitrobenzene	8.98	77	51038	3.19	ng		93
10) Naphthalene	10.61	128	157137	3.28	ng		98
11) Hexachlorobutadiene	10.90	225	24584	3.48	ng		98
12) 2-Methylnaphthalene	12.23	142	112451	3.65	ng		98
16) Acenaphthylene	14.12	152	194421	3.59	ng	#	86
17) Acenaphthene	14.47	154	124177	3.54	ng		96
18) Fluorene	15.45	166	149896	3.44	ng		98
20) 4-Bromophenyl-phenylether	16.33	248	42509	3.27	ng		93
21) Hexachlorobenzene	16.45	284	44708	3.44	ng		99
22) Pentachlorophenol	16.79	266	46572	6.65	ng	#	88
23) Phenanthrene	17.18	178	263305	3.21	ng		99
24) Anthracene	17.28	178	250617	3.39	ng		98
25) Fluoranthene	19.19	202	303754	3.54	ng	#	96
27) Benzidine	19.38	184	19399	0.92	ng	#	76
28) Pyrene	19.55	202	330561	4.67	ng		99
30) Benzo(a)anthracene	21.29	228	283475	3.70	ng	#	90
31) 3,3'-Dichlorobenzidine	21.22	252	29145	0.75	ng	#	86
32) Chrysene	21.34	228	330459m	4.15	ng		
33) Bis(2-ethylhexyl)phthalate	21.20	149	153430	6.61	ng	#	87
34) Indeno(1,2,3-cd)pyrene	26.29	276	309718	4.37	ng		95
36) Benzo(b)fluoranthene	22.99	252	316865	4.17	ng		96
37) Benzo(k)fluoranthene	23.04	252	270075m	3.50	ng		
38) Benzo(a)pyrene	23.63	252	272181	3.81	ng	#	96
39) Dibenzo(a,h)anthracene	26.32	278	259614	3.83	ng		95
40) Benzo(g,h,i)perylene	27.09	276	264491	3.84	ng	#	93

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

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Sample : PB90589BS
Misc :
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Instrument :
BNA_E
ClientSampleId :
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Manual Integrations APPROVED
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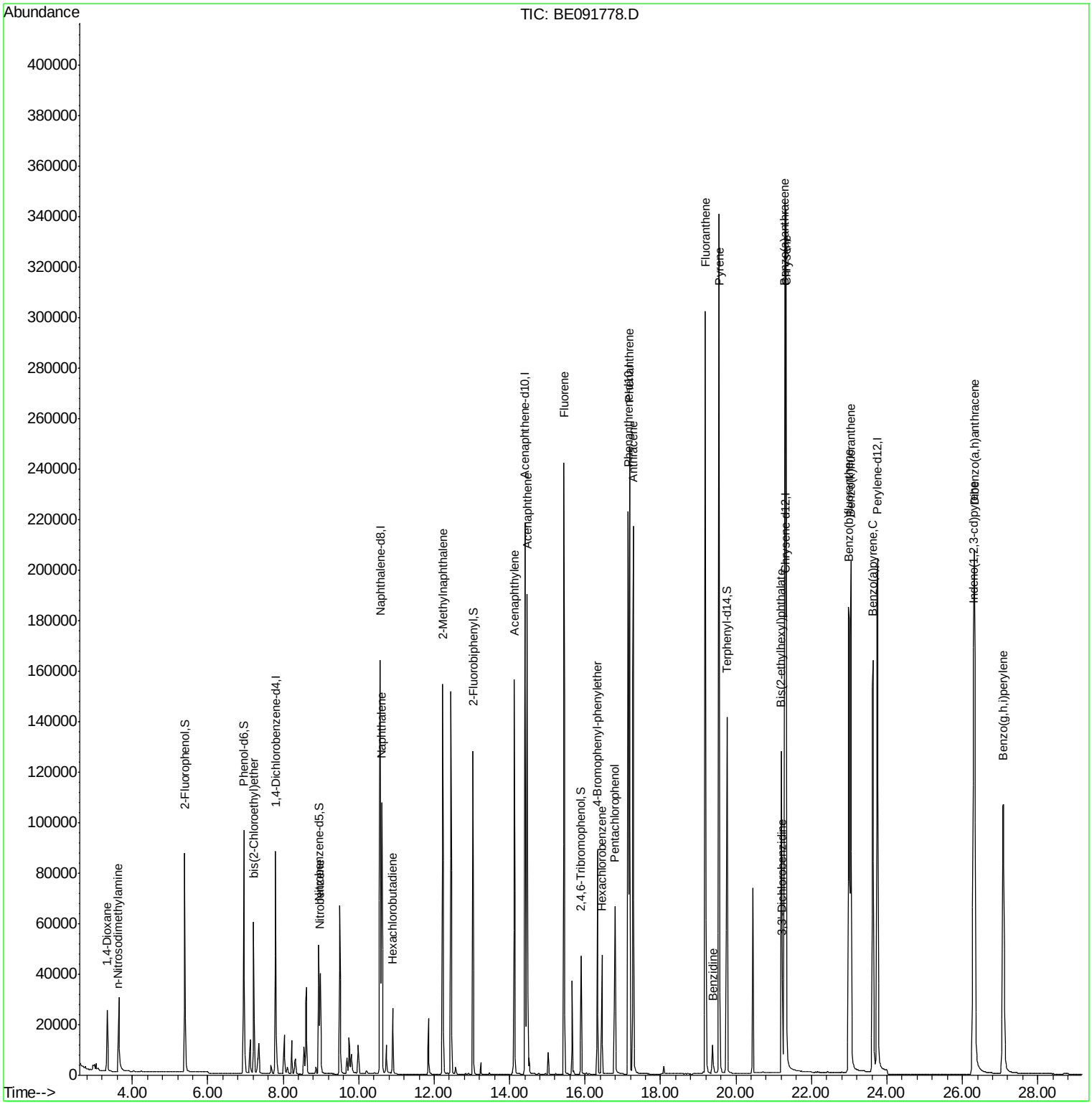
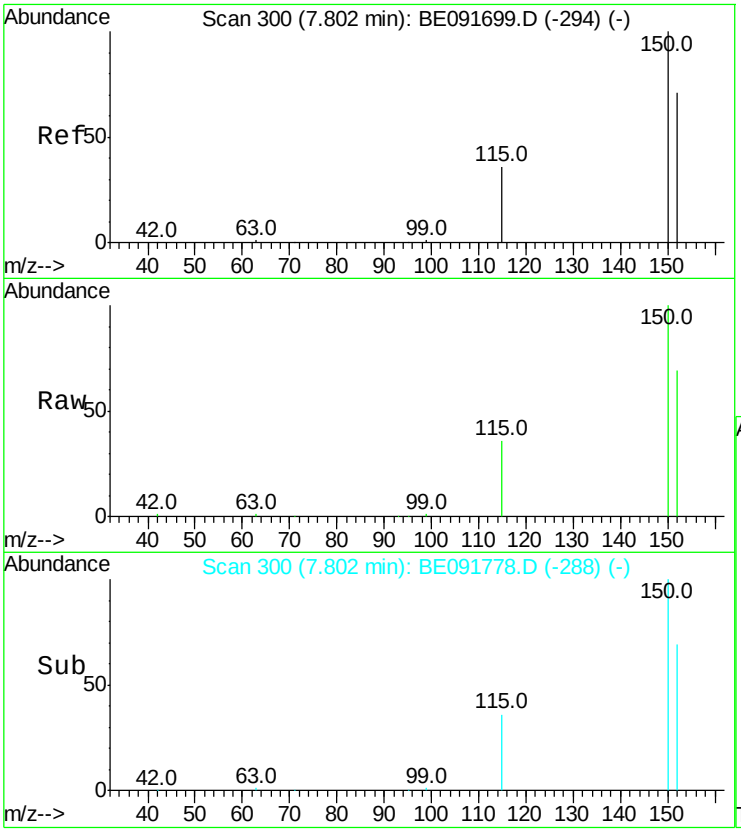
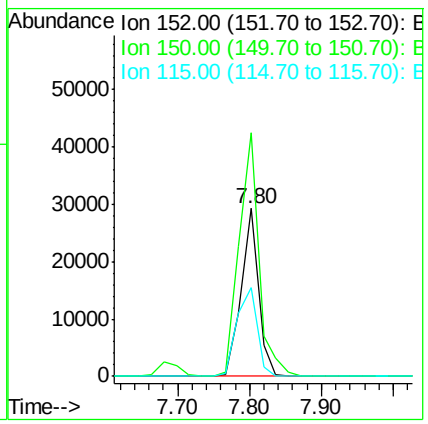




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.80 min Scan# 300
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:152 Resp: 47933

Ion	Ratio	Lower	Upper
152	100		
150	145.4	122.6	183.8
115	53.0	52.8	79.2



Instrument :
BNA_E
ClientSampleId :
PB90589BS

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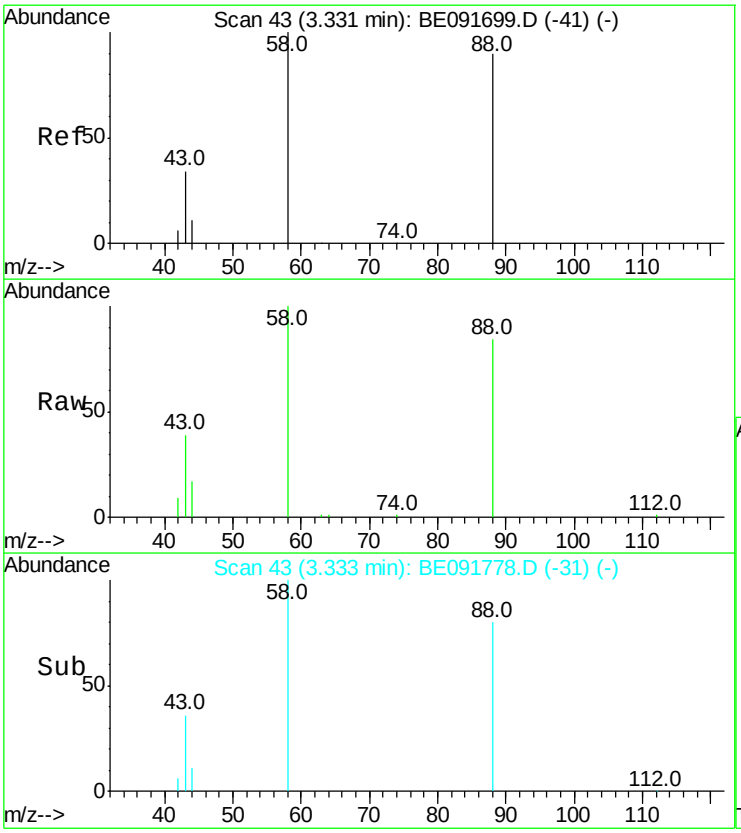
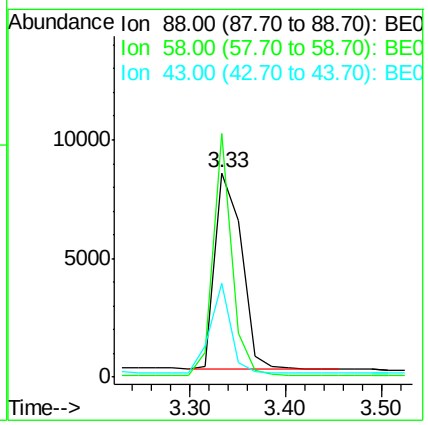
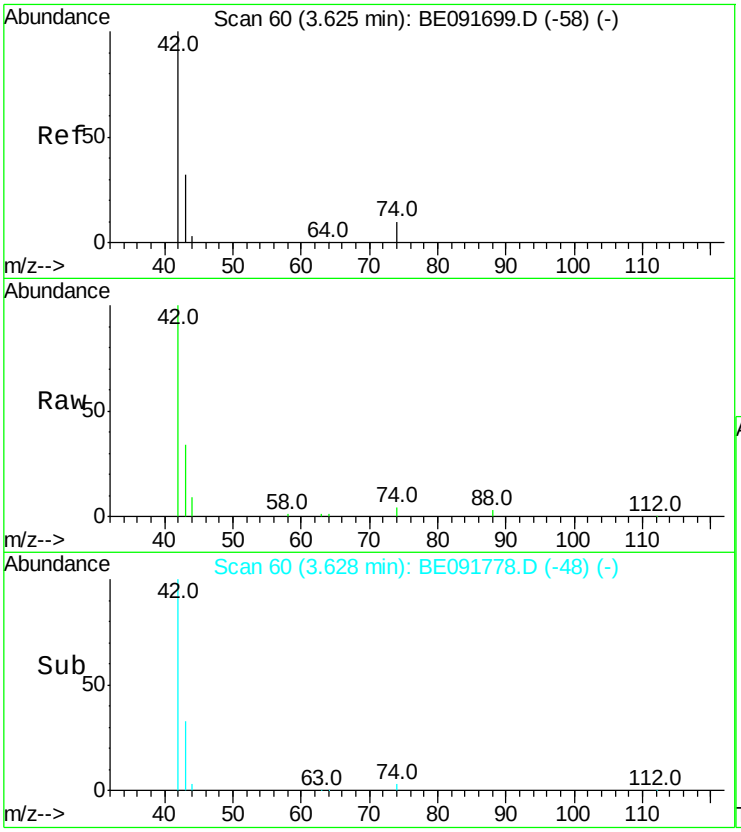


#2
1,4-Dioxane
Concen: 2.84 ng
RT: 3.33 min Scan# 43
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 88 Resp: 16092

Ion	Ratio	Lower	Upper
88	100		
58	86.0	65.8	98.6
43	35.5	25.3	37.9

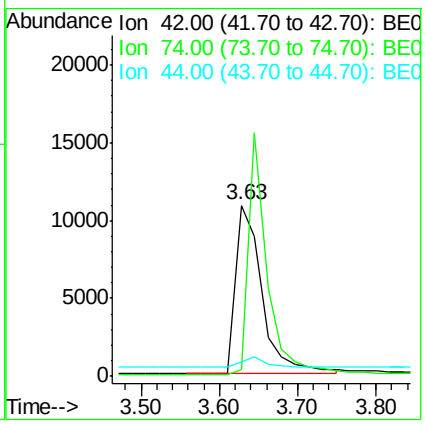




#3
n-Nitrosodimethylamine
Concen: 2.91 ng
RT: 3.63 min Scan# 60
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 42 Resp: 25310

Ion	Ratio	Lower	Upper
42	100		
74	103.6	87.9	131.9
44	5.9	6.6	9.8#



Instrument :
BNA_E
ClientSampleId :
PB90589BS

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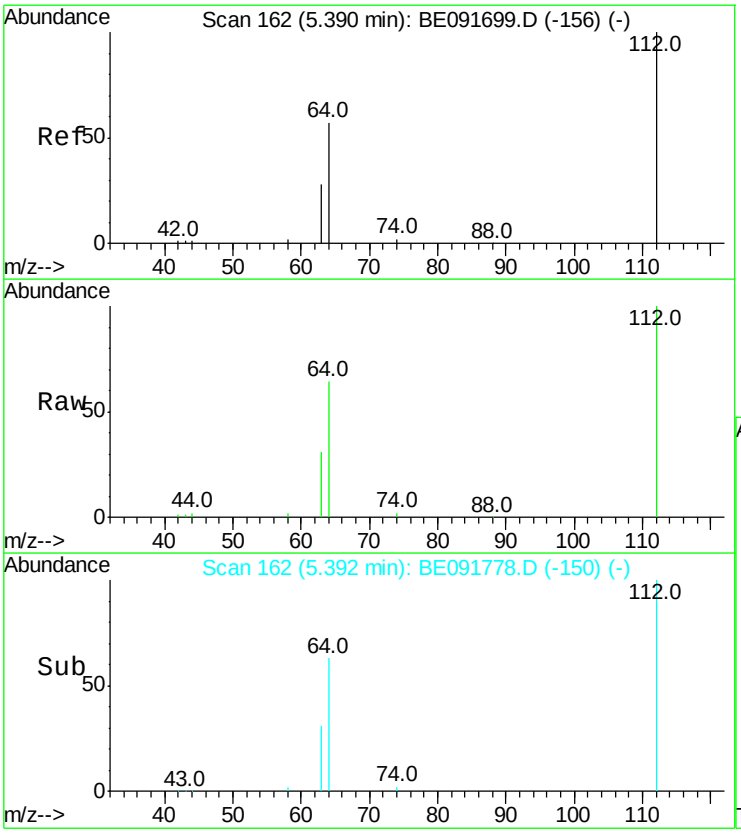
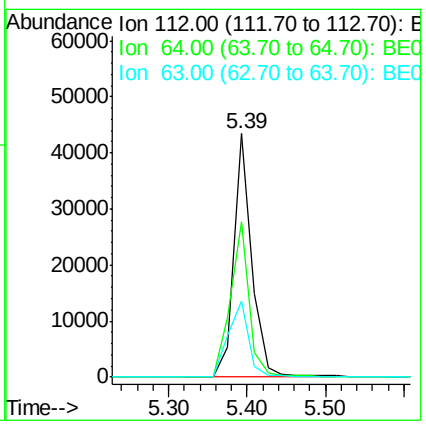
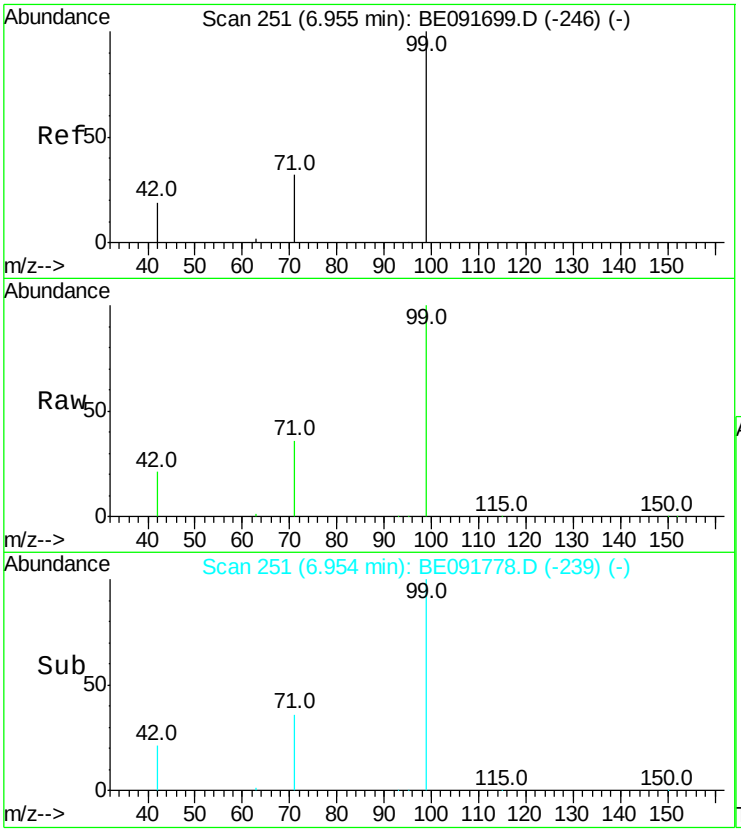


#4
2-Fluorophenol
Concen: 5.86 ng
RT: 5.39 min Scan# 162
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:112 Resp: 68944

Ion	Ratio	Lower	Upper
112	100		
64	66.3	30.9	46.3#
63	35.4	16.7	25.1#

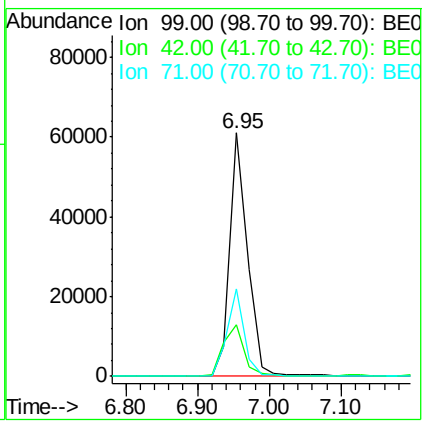




#5
Phenol-d6
Concen: 6.64 ng
RT: 6.95 min Scan# 251
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 99 Resp: 103664

Ion	Ratio	Lower	Upper
99	100		
42	24.6	16.2	24.2#
71	34.7	29.0	43.4



Instrument :
BNA_E
ClientSampleId :
PB90589BS

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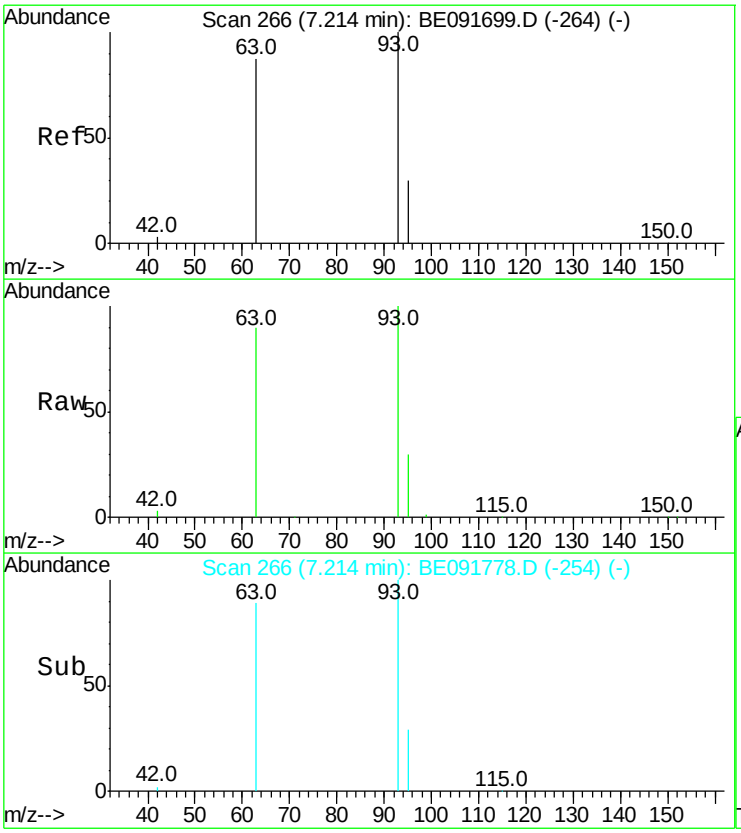
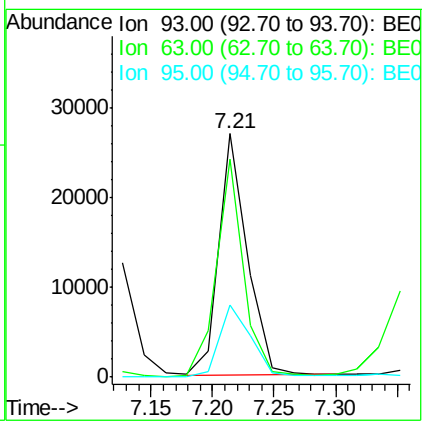
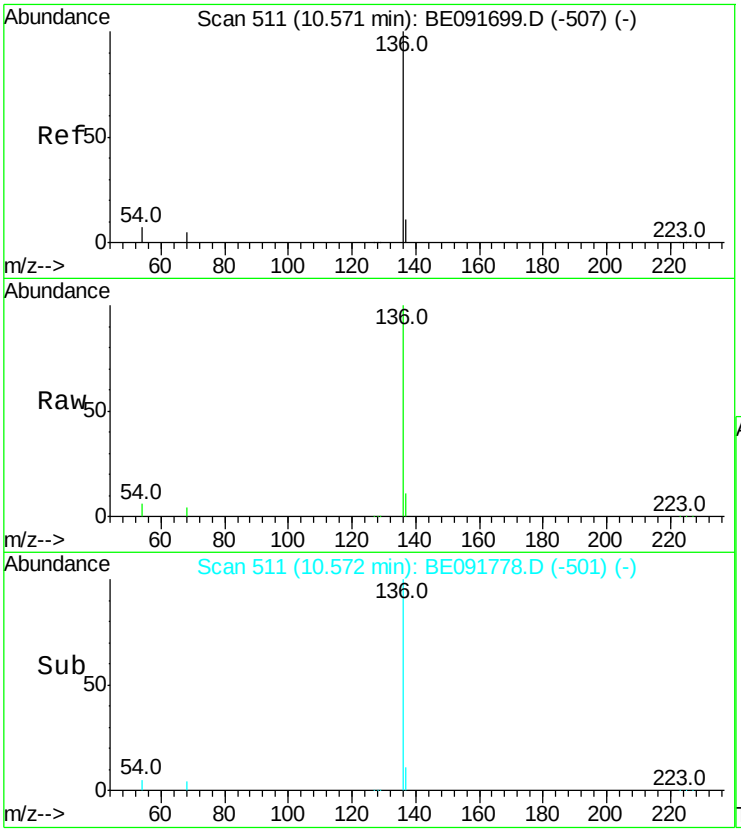


#6
bis(2-Chloroethyl)ether
Concen: 3.17 ng
RT: 7.21 min Scan# 266
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 93 Resp: 43545

Ion	Ratio	Lower	Upper
93	100		
63	85.2	49.5	74.3#
95	32.6	22.2	33.4

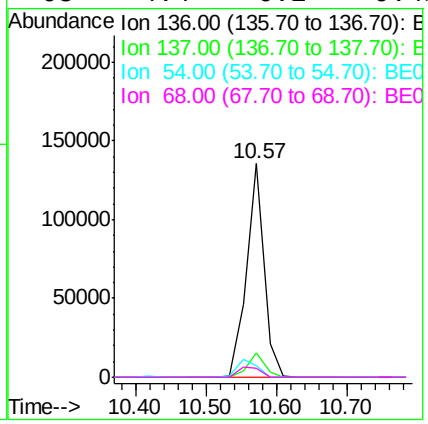




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.57 min Scan# 511
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:136 Resp: 237108

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	5.5	8.2	12.4#
68	4.4	6.2	9.4#



Instrument :
BNA_E
ClientSampleId :
PB90589BS

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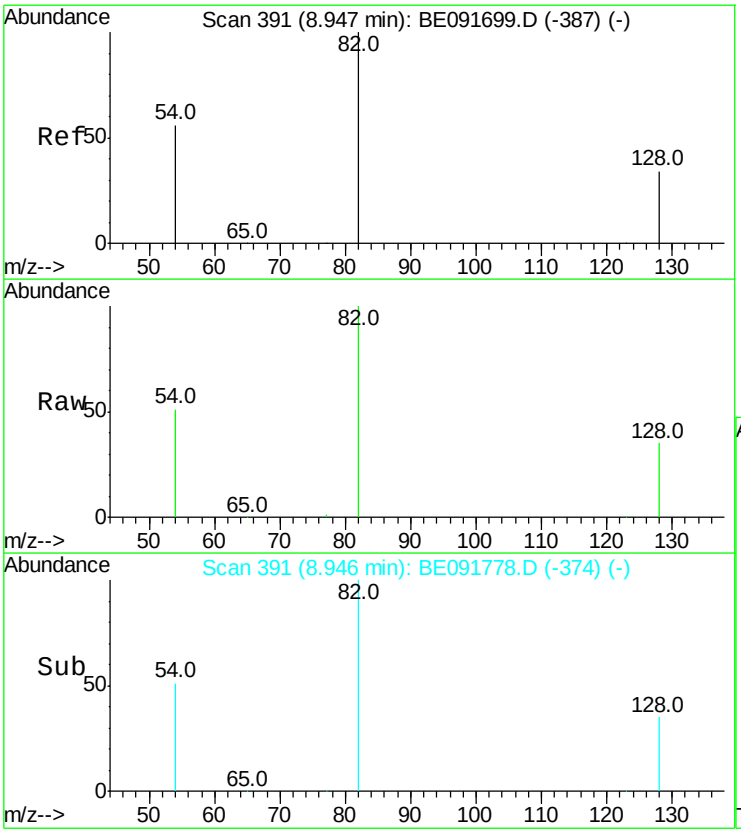
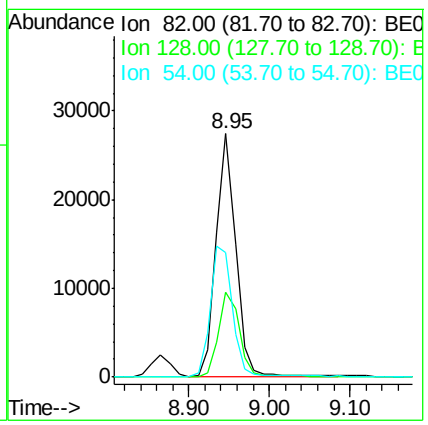
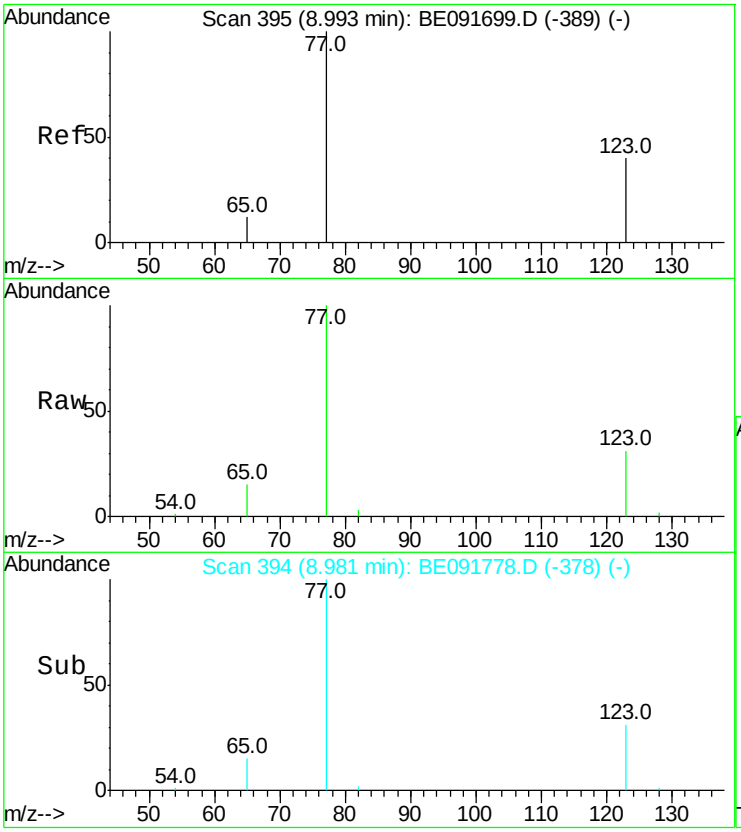


#8
Nitrobenzene-d5
Concen: 3.02 ng
RT: 8.95 min Scan# 391
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 82 Resp: 46254

Ion	Ratio	Lower	Upper
82	100		
128	34.9	25.4	38.0
54	51.0	48.4	72.6

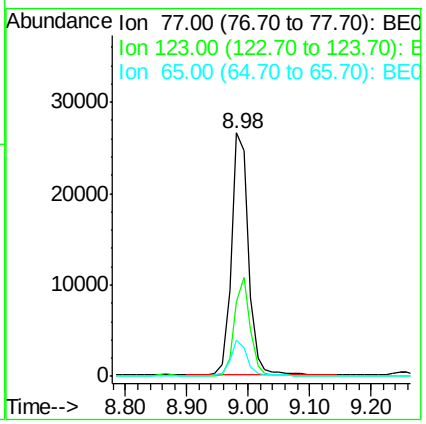




#9
Nitrobenzene
Concen: 3.19 ng
RT: 8.98 min Scan# 394
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion: 77 Resp: 51038

Ion	Ratio	Lower	Upper
77	100		
123	37.8	26.9	40.3
65	13.9	9.4	14.2



Instrument :
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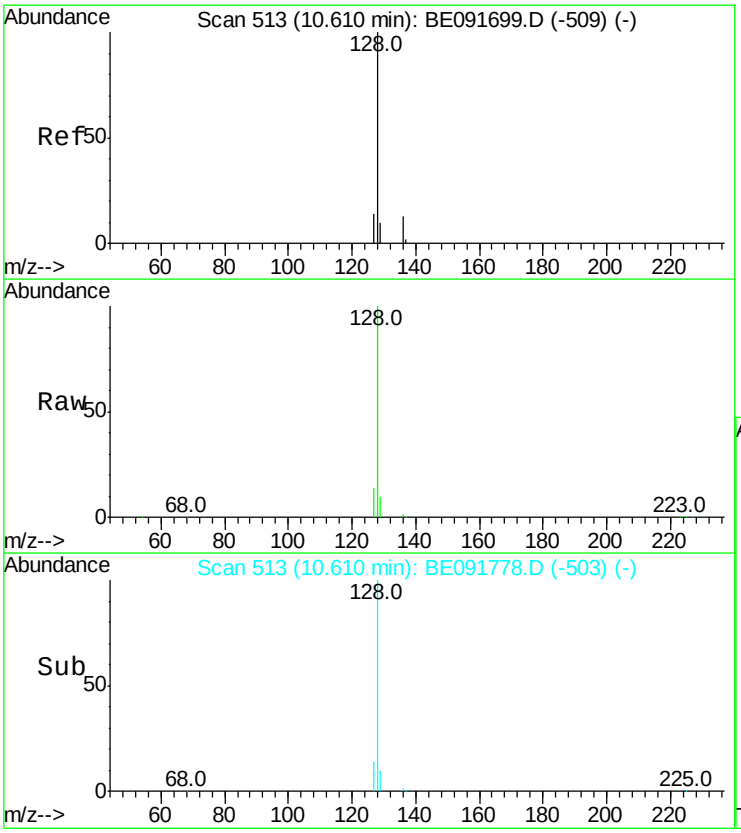
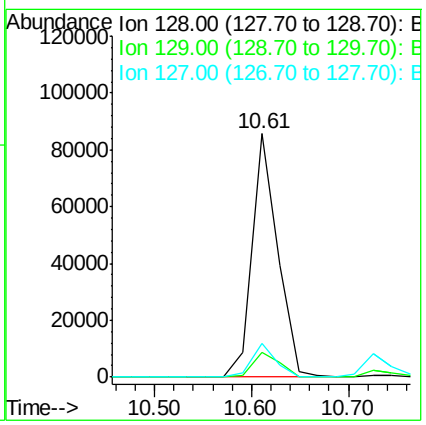
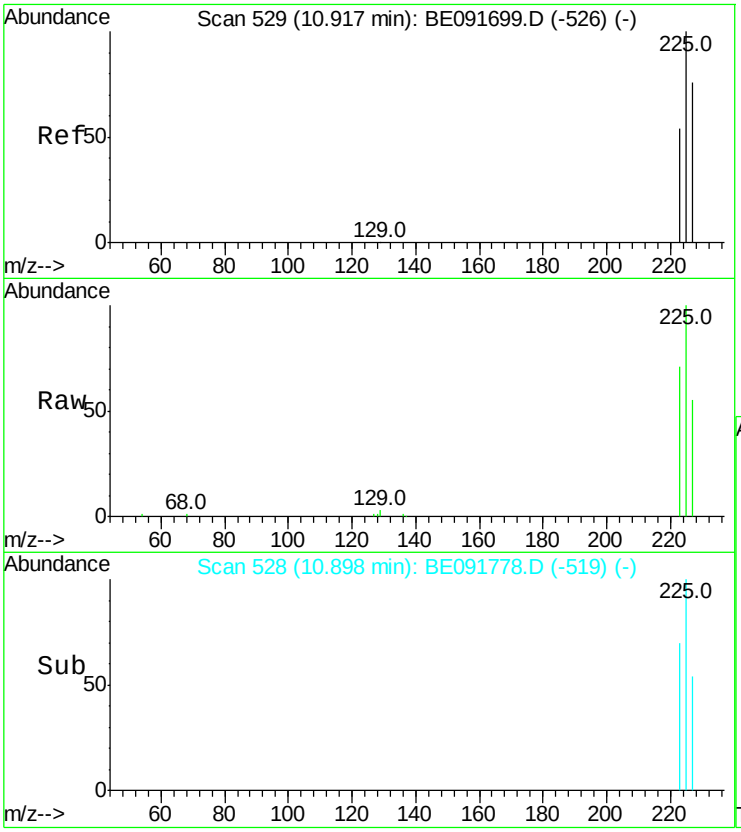


#10
Naphthalene
Concen: 3.28 ng
RT: 10.61 min Scan# 513
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:128 Resp: 157137

Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.3	13.9
127	13.8	10.7	16.1

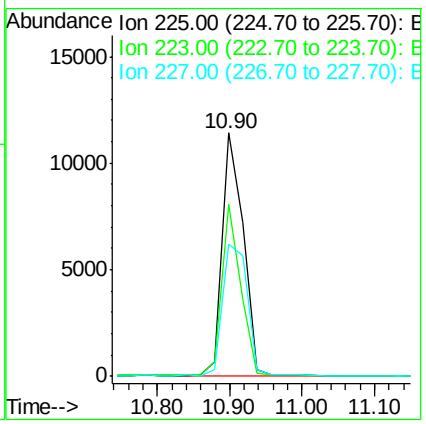




#11
Hexachlorobutadiene
Concen: 3.48 ng
RT: 10.90 min Scan# 528
Delta R.T. -0.02 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:225 Resp: 24584

Ion	Ratio	Lower	Upper
225	100		
223	64.2	49.0	73.6
227	63.8	50.3	75.5



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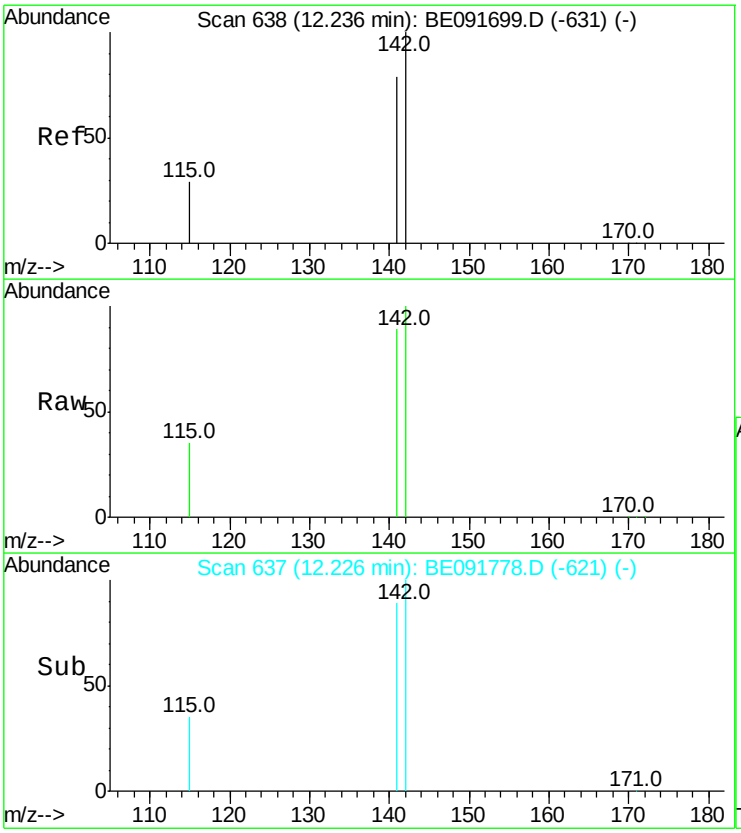
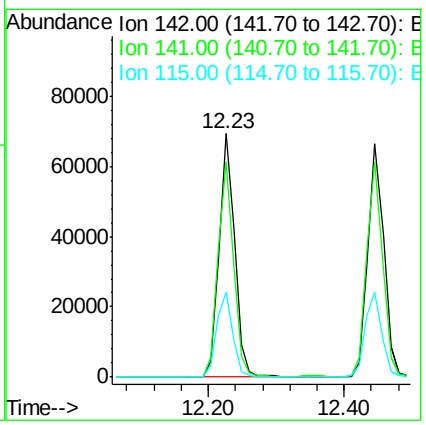
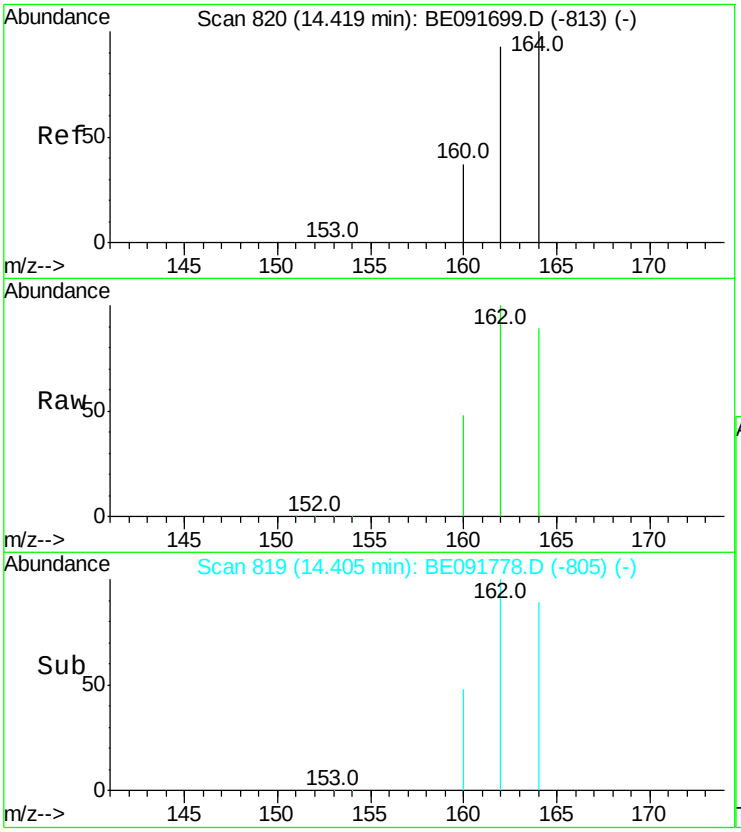


#12
2-Methylnaphthalene
Concen: 3.65 ng
RT: 12.23 min Scan# 637
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:142 Resp: 112451

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.4	107.0
115	35.0	30.3	45.5

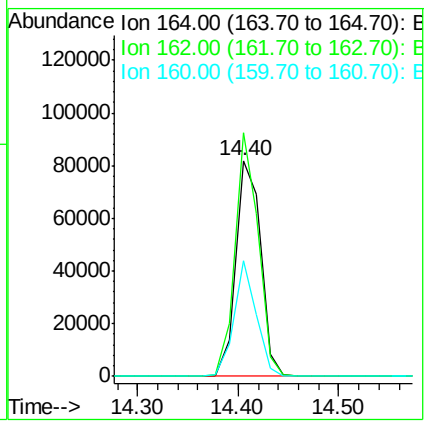




#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 819
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:164 Resp: 140631

Ion	Ratio	Lower	Upper
164	100		
162	112.9	85.3	127.9
160	53.7	46.2	69.2



Instrument :
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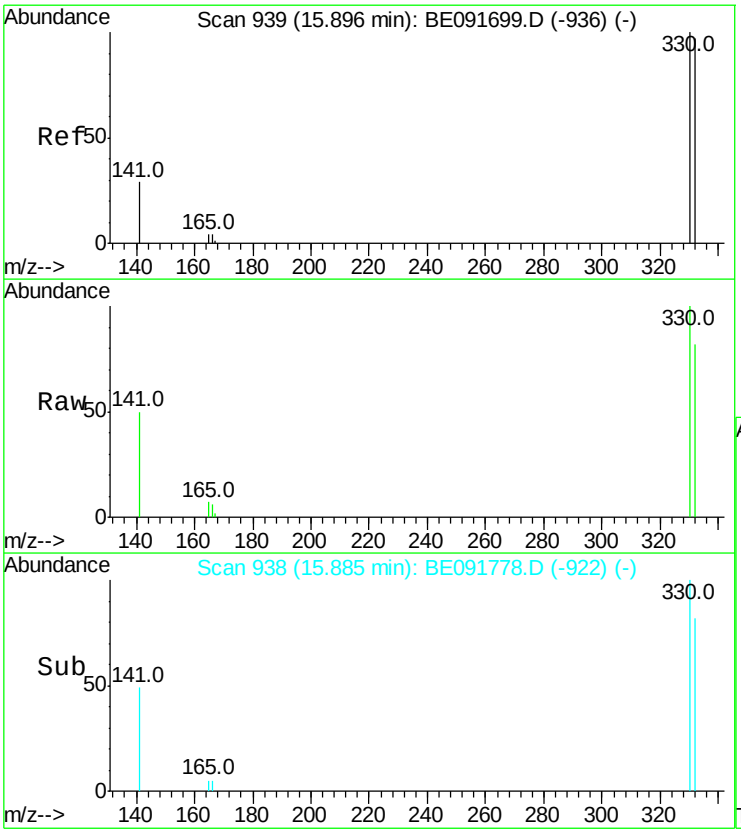
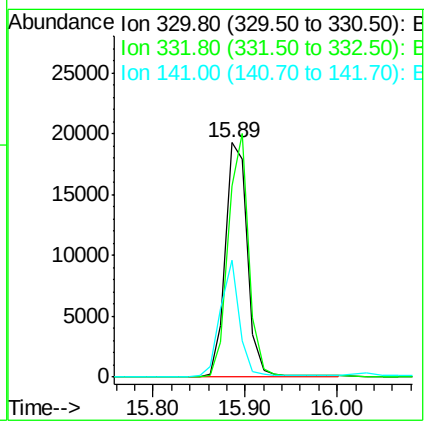
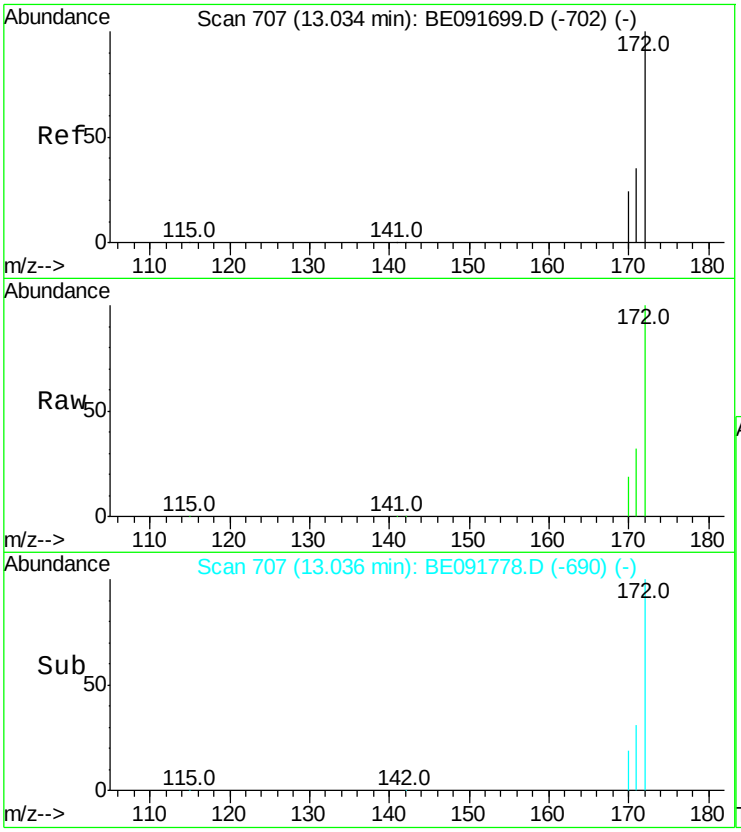


#14
2,4,6-Tribromophenol
Concen: 6.15 ng
RT: 15.89 min Scan# 938
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:330 Resp: 32014

Ion	Ratio	Lower	Upper
330	100		
332	96.8	79.1	118.7
141	42.3	125.4	188.0#

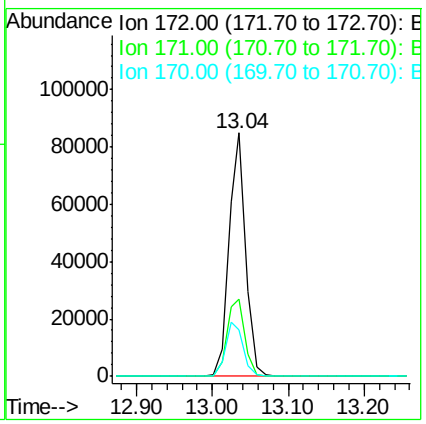




#15
2-Fluorobiphenyl
Concen: 3.31 ng
RT: 13.04 min Scan# 707
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:172 Resp: 131845

Ion	Ratio	Lower	Upper
172	100		
171	31.5	28.8	43.2
170	19.3	19.3	28.9



Instrument :
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ClientSampleId :
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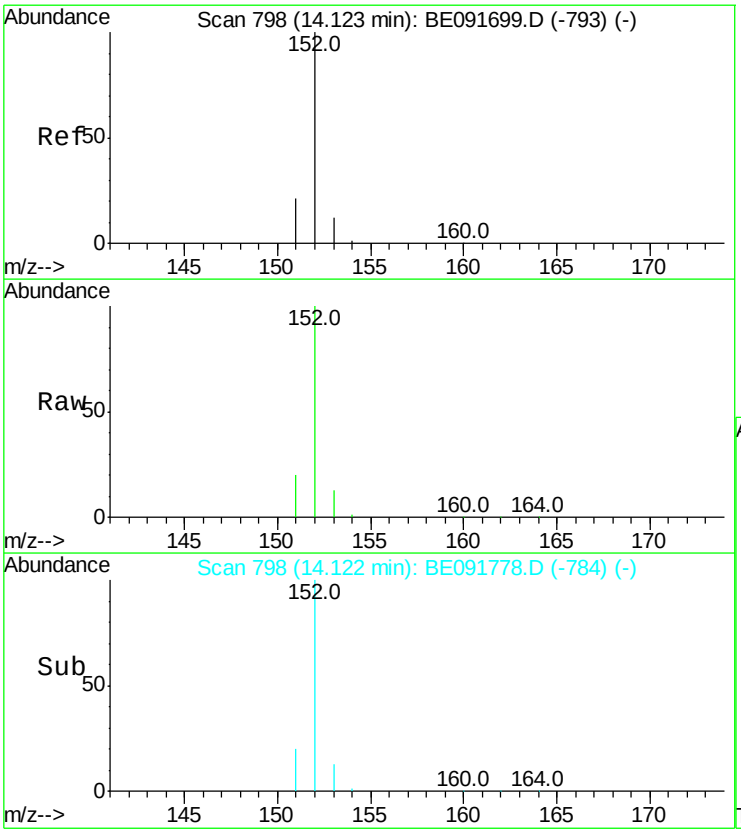
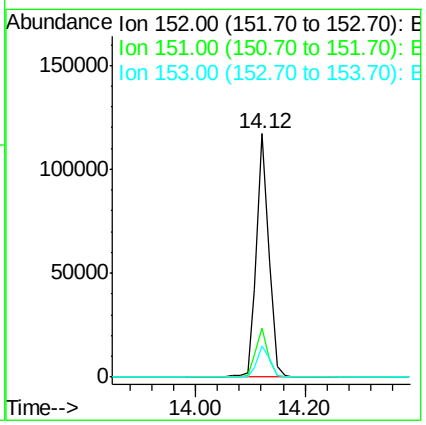
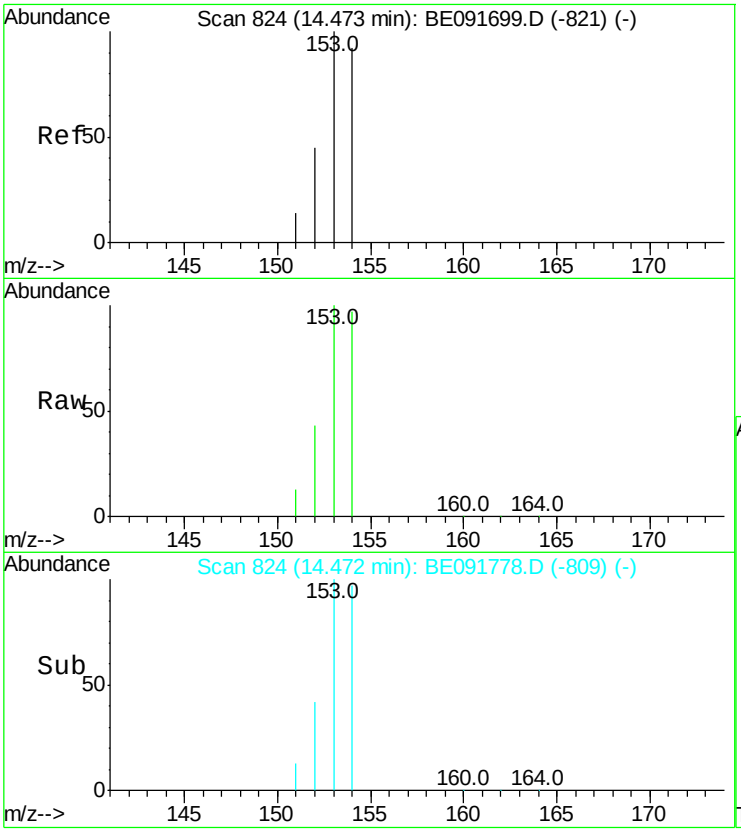


#16
Acenaphthylene
Concen: 3.59 ng
RT: 14.12 min Scan# 798
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:152 Resp: 194421

Ion	Ratio	Lower	Upper
152	100		
151	20.1	3.9	5.9#
153	13.5	10.3	15.5

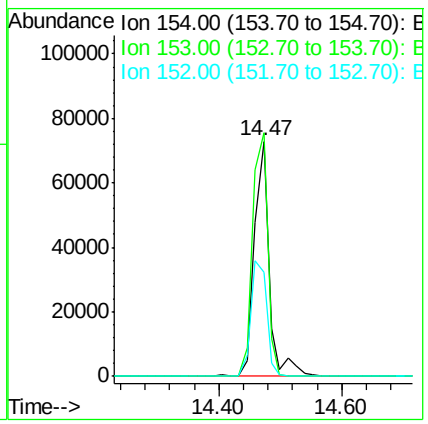




#17
Acenaphthene
Concen: 3.54 ng
RT: 14.47 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:154 Resp: 124177

Ion	Ratio	Lower	Upper
154	100		
153	104.7	80.0	120.0
152	51.4	40.0	60.0



Instrument :
BNA_E
ClientSampleId :
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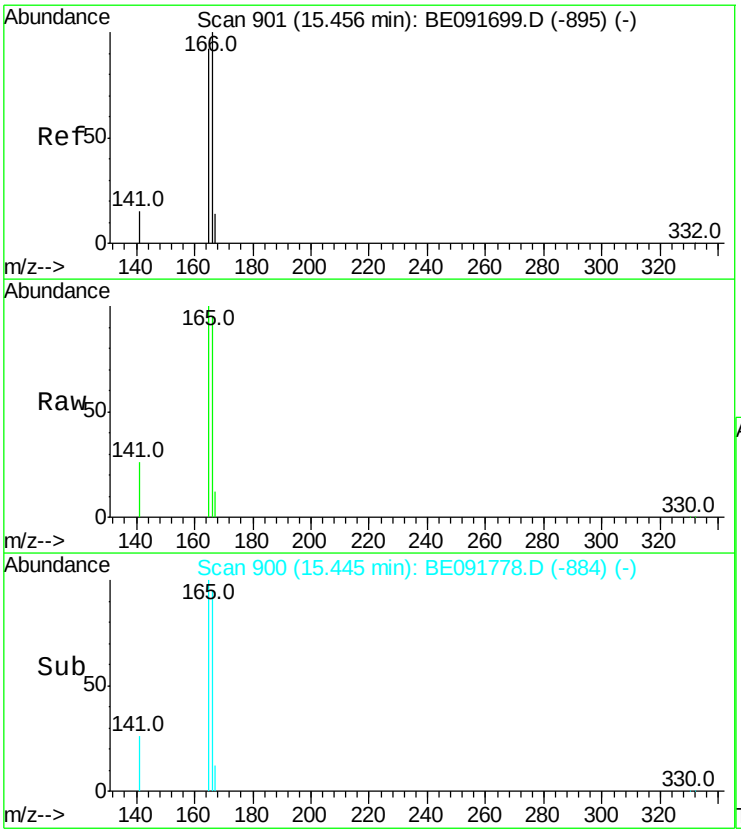
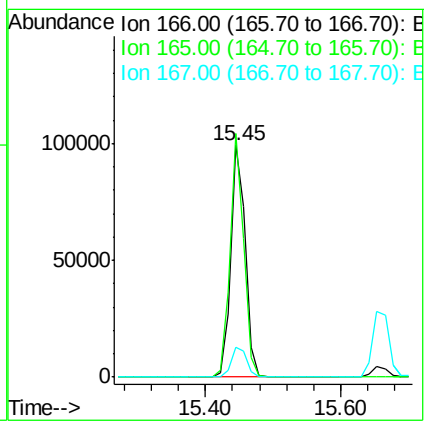
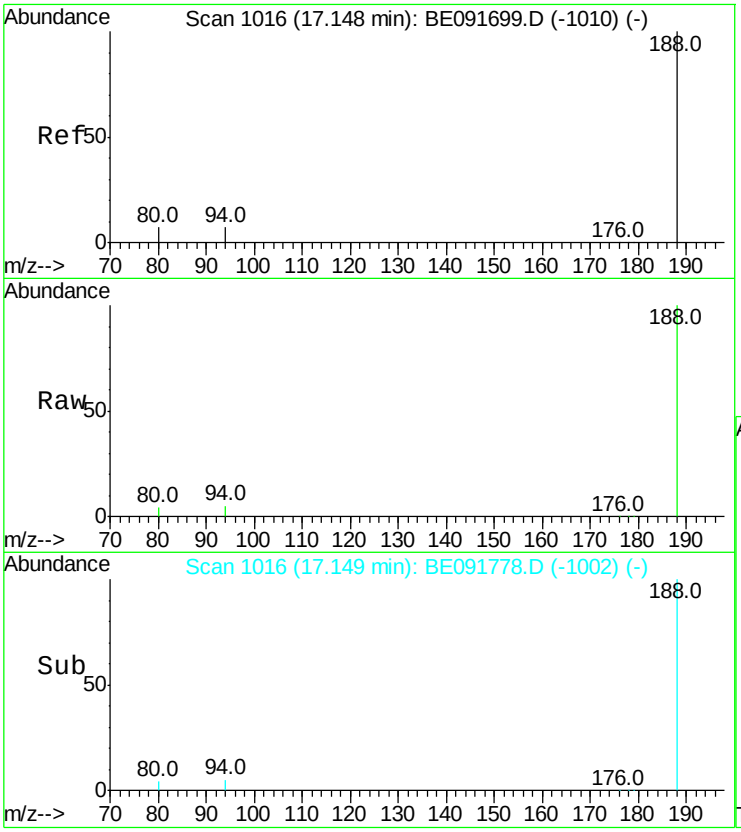


#18
Fluorene
Concen: 3.44 ng
RT: 15.45 min Scan# 900
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:166 Resp: 149896

Ion	Ratio	Lower	Upper
166	100		
165	98.6	80.8	121.2
167	13.6	10.9	16.3

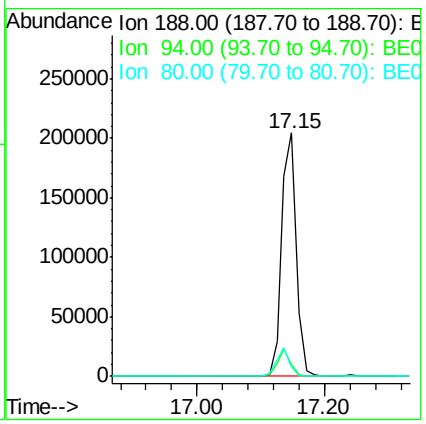




#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.15 min Scan# 1016
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:188 Resp: 361181

Ion	Ratio	Lower	Upper
188	100		
94	4.8	8.7	13.1#
80	4.0	9.4	14.0#



Instrument :
BNA_E
ClientSampleId :
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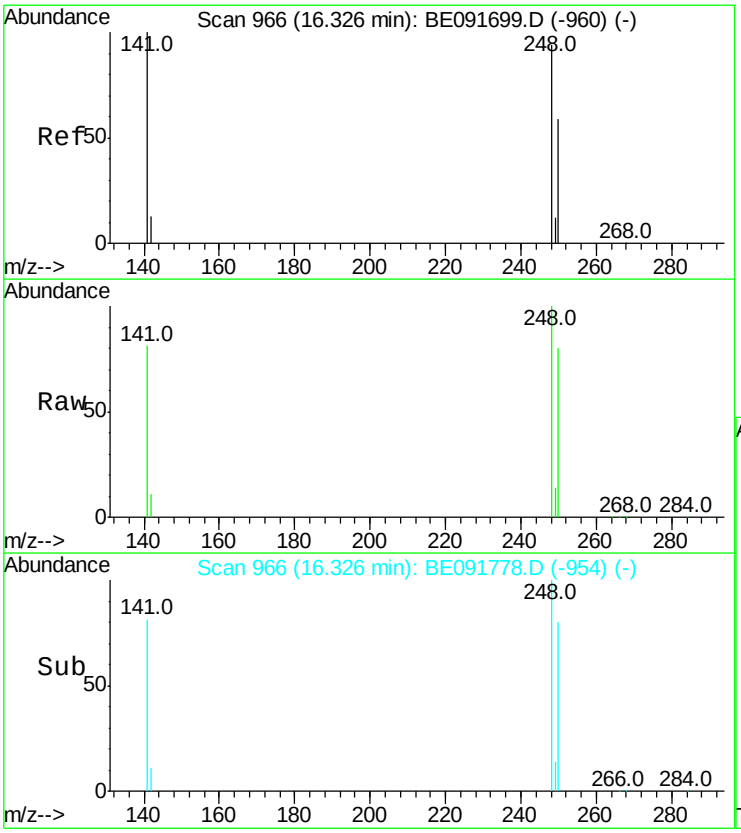
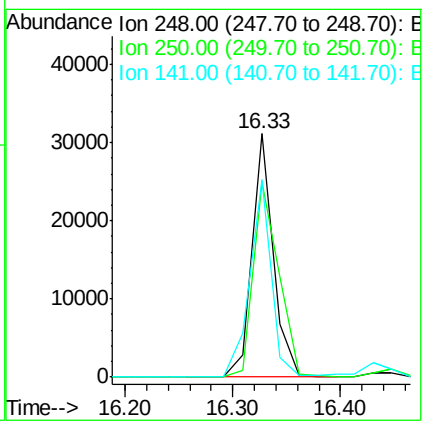
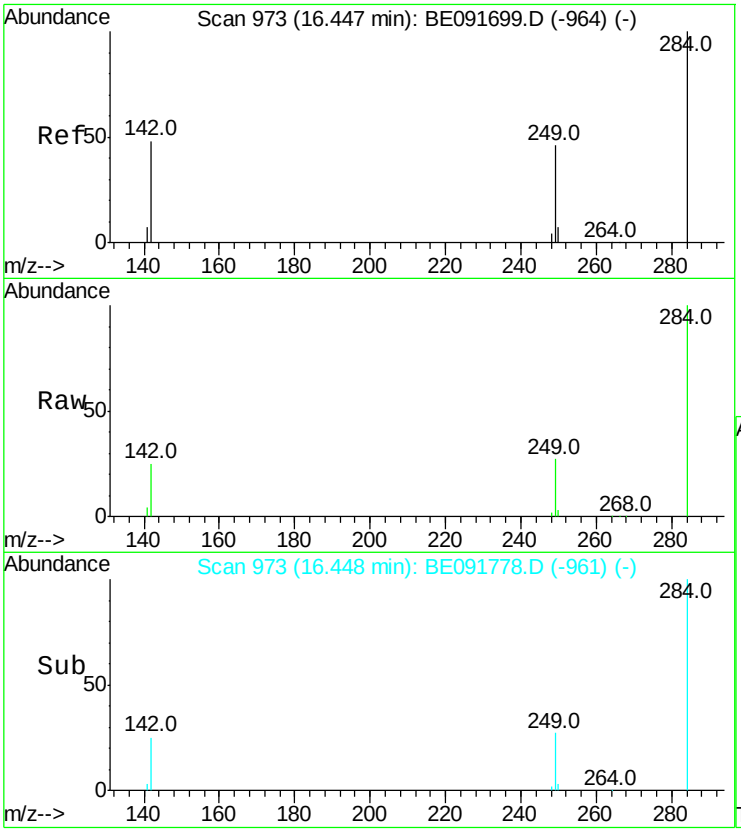


#20
4-Bromophenyl-phenylether
Concen: 3.27 ng
RT: 16.33 min Scan# 966
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:248 Resp: 42509

Ion	Ratio	Lower	Upper
248	100		
250	95.1	80.5	120.7
141	81.2	72.0	108.0

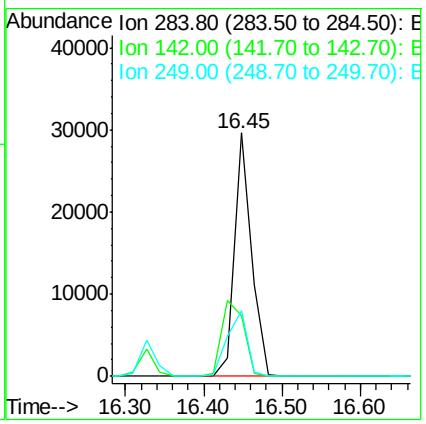




#21
Hexachlorobenzene
Concen: 3.44 ng
RT: 16.45 min Scan# 973
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:284 Resp: 44708

Ion	Ratio	Lower	Upper
284	100		
142	39.6	32.2	48.2
249	30.9	25.4	38.2



Instrument :
BNA_E
ClientSampleId :
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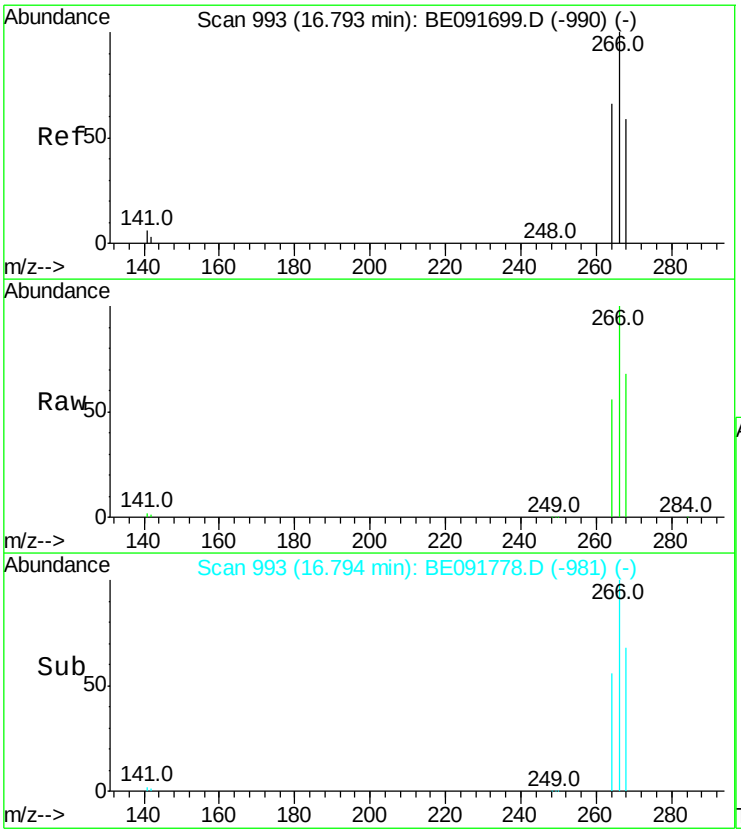
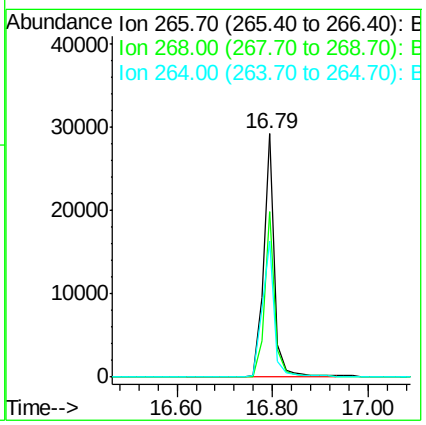
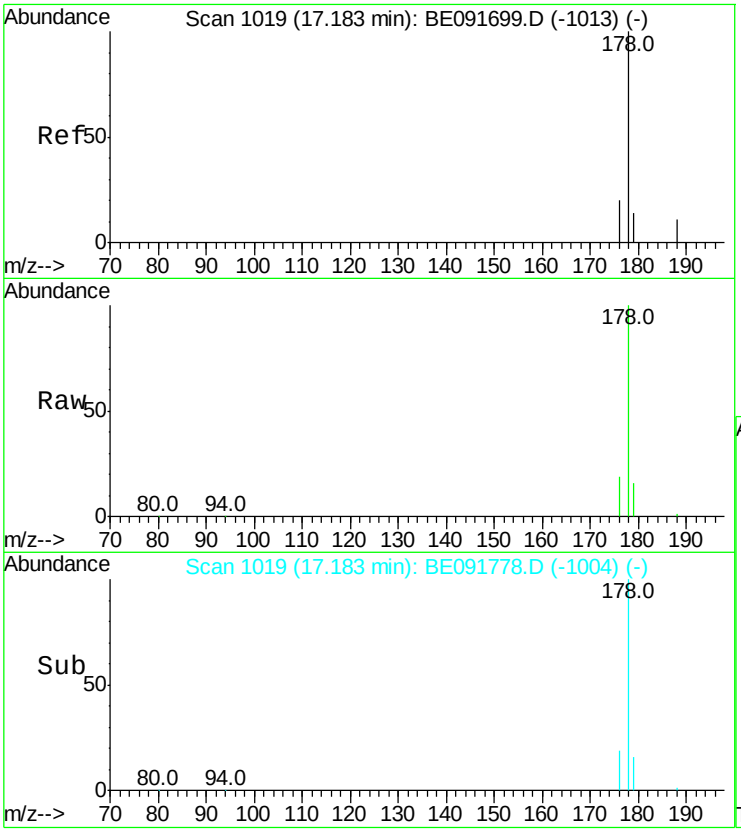


#22
Pentachlorophenol
Concen: 6.65 ng
RT: 16.79 min Scan# 993
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:266 Resp: 46572

Ion	Ratio	Lower	Upper
266	100		
268	67.7	58.2	87.2
264	55.9	56.2	84.4#

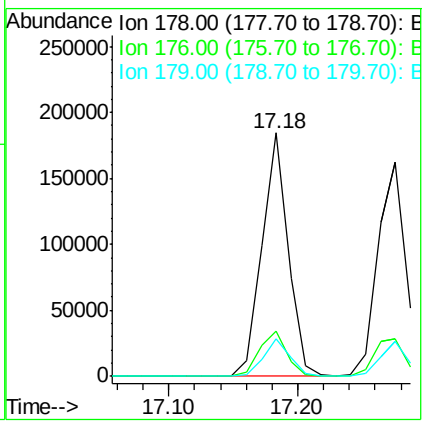




#23
Phenanthrene
Concen: 3.21 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:178 Resp: 263305

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.5	12.6	18.8



Instrument :
BNA_E
ClientSampleId :
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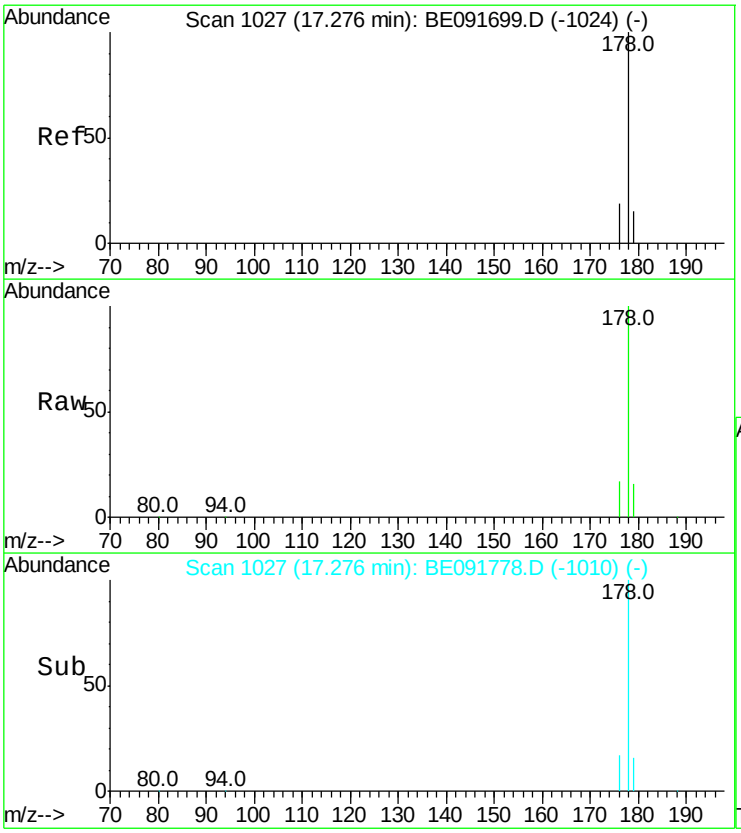
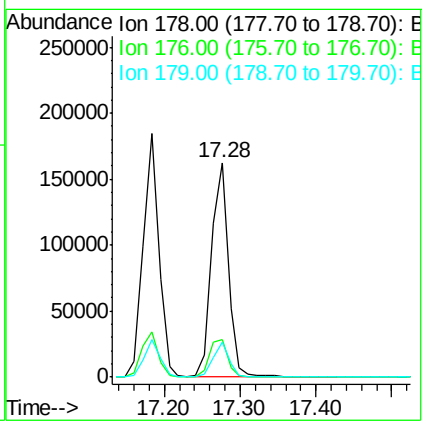
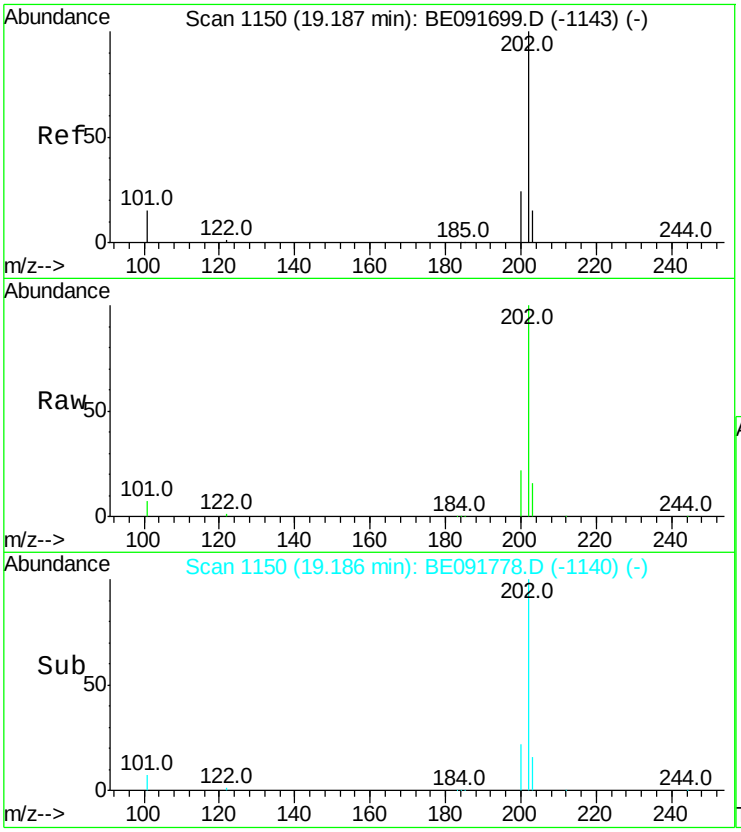


#24
Anthracene
Concen: 3.39 ng
RT: 17.28 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:178 Resp: 250617

Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.6	21.8
179	15.1	11.8	17.6

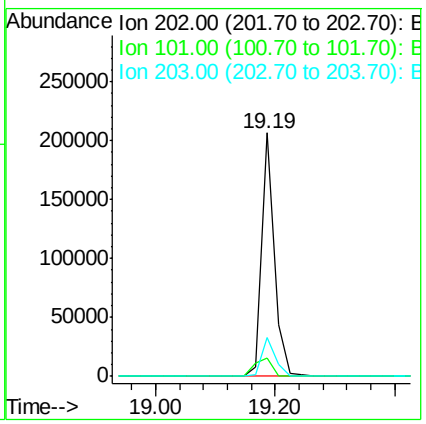




#25
Fluoranthene
Concen: 3.54 ng
RT: 19.19 min Scan# 1150
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:202 Resp: 303754

Ion	Ratio	Lower	Upper
202	100		
101	10.3	11.0	16.6#
203	17.2	13.9	20.9



Instrument :
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ClientSampleId :
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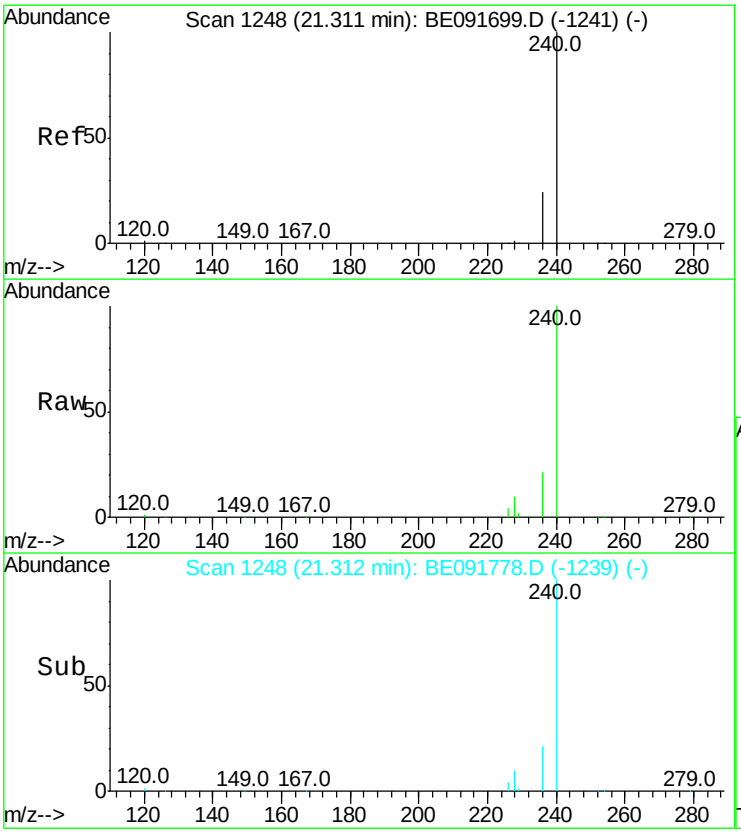
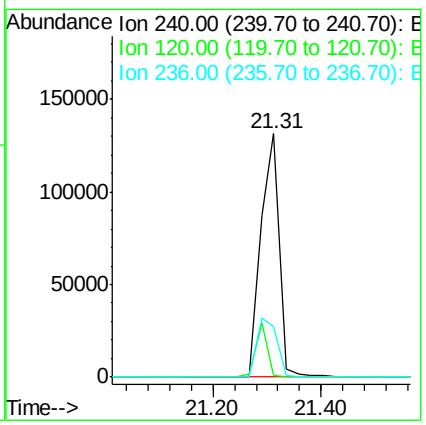
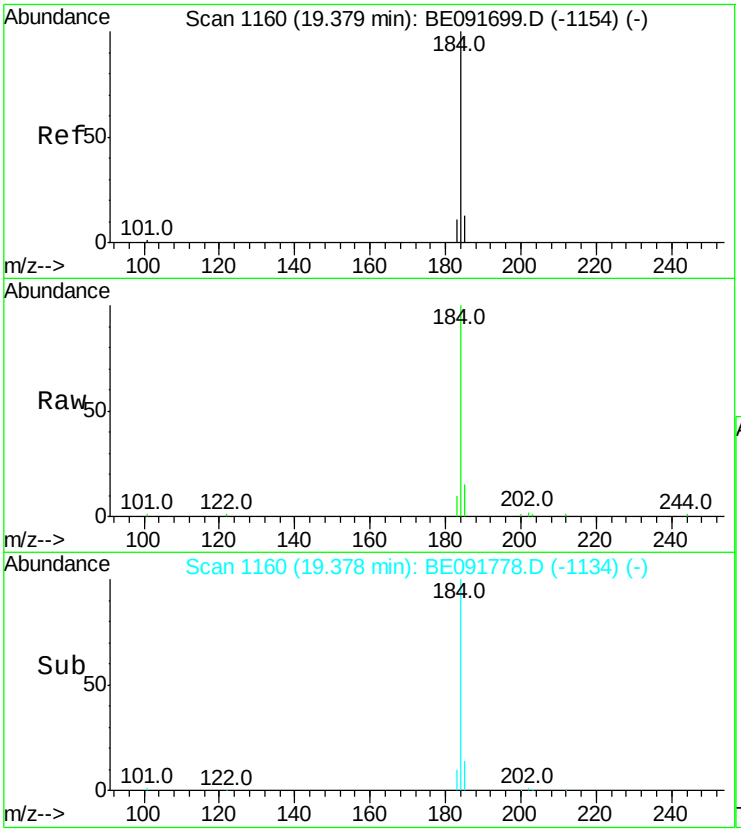


#26
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:240 Resp: 313486

Ion	Ratio	Lower	Upper
240	100		
120	0.8	11.0	16.4#
236	20.6	21.7	32.5#





#27
Benzidine
Concen: 0.92 ng
RT: 19.38 min Scan# 1160
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:184 Resp: 19399

Ion	Ratio	Lower	Upper
184	100		
185	14.5	22.3	33.5#
183	10.5	16.4	24.6#

Instrument :
BNA_E
ClientSampleId :
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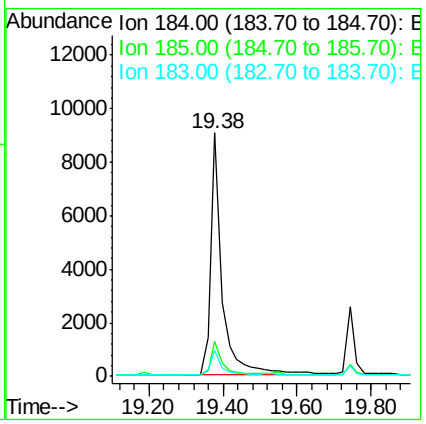
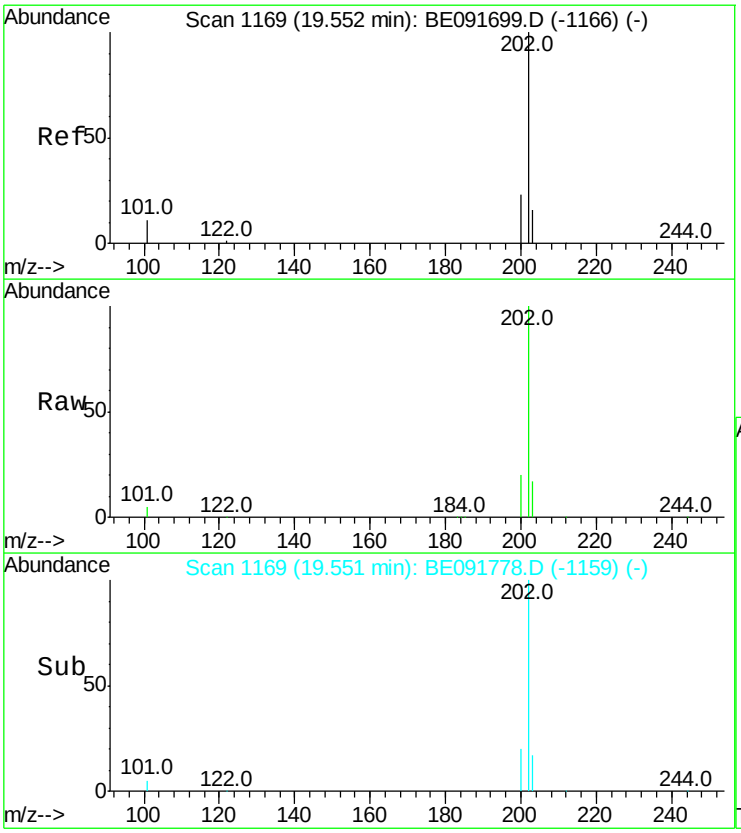
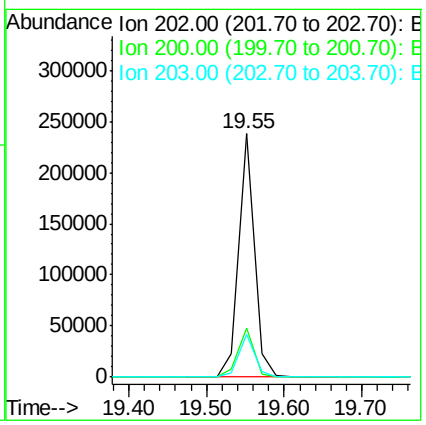


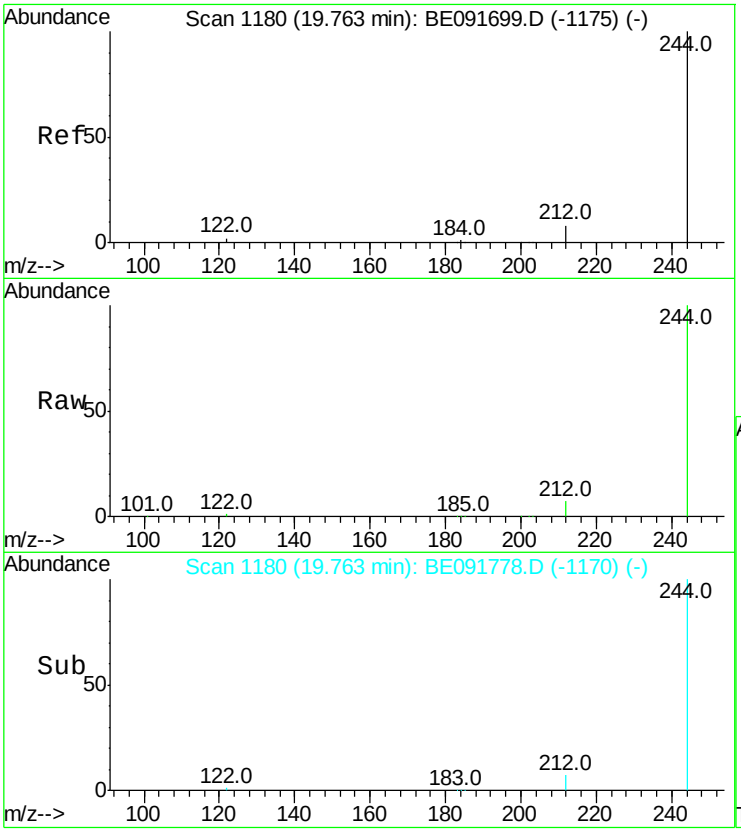


#28
Pyrene
Concen: 4.67 ng
RT: 19.55 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:202 Resp: 330561

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	18.0	14.0	21.0

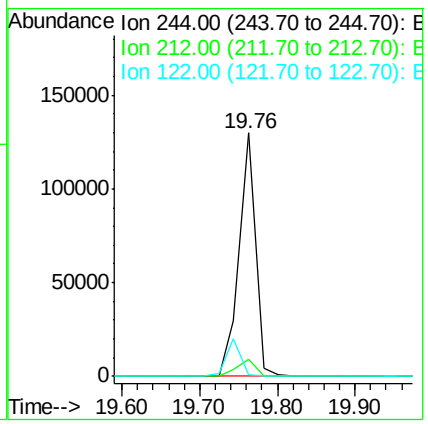




#29
Terphenyl-d14
Concen: 3.91 ng
RT: 19.76 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:244 Resp: 190980

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.9	10.3
122	0.9	11.0	16.4#



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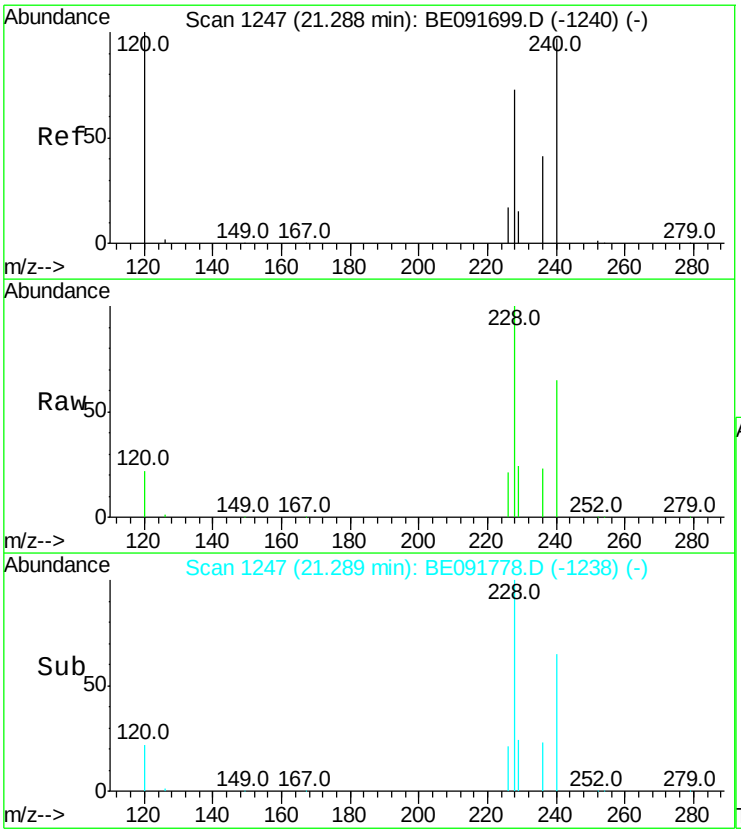
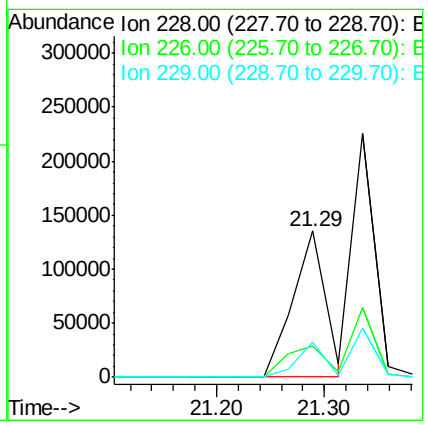
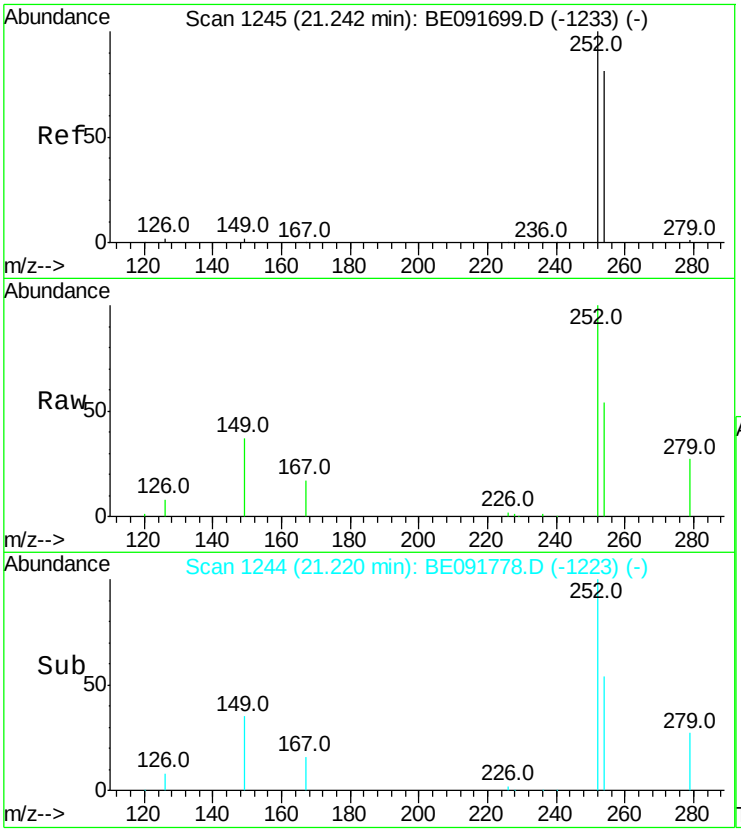


#30
Benzo(a)anthracene
Concen: 3.70 ng
RT: 21.29 min Scan# 1247
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:228 Resp: 283475

Ion	Ratio	Lower	Upper
228	100		
226	21.1	21.0	31.4
229	24.2	15.7	23.5#





#31
3,3'-Dichlorobenzidine
Concen: 0.75 ng
RT: 21.22 min Scan# 1244
Delta R.T. -0.02 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:252 Resp: 29145

Ion	Ratio	Lower	Upper
252	100		
254	53.8	51.1	76.7
126	8.1	12.6	18.8#

Instrument :
BNA_E
ClientSampleId :
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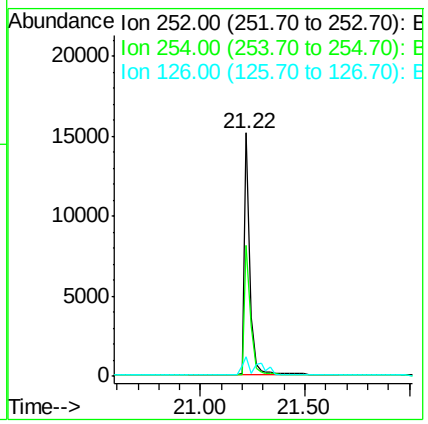
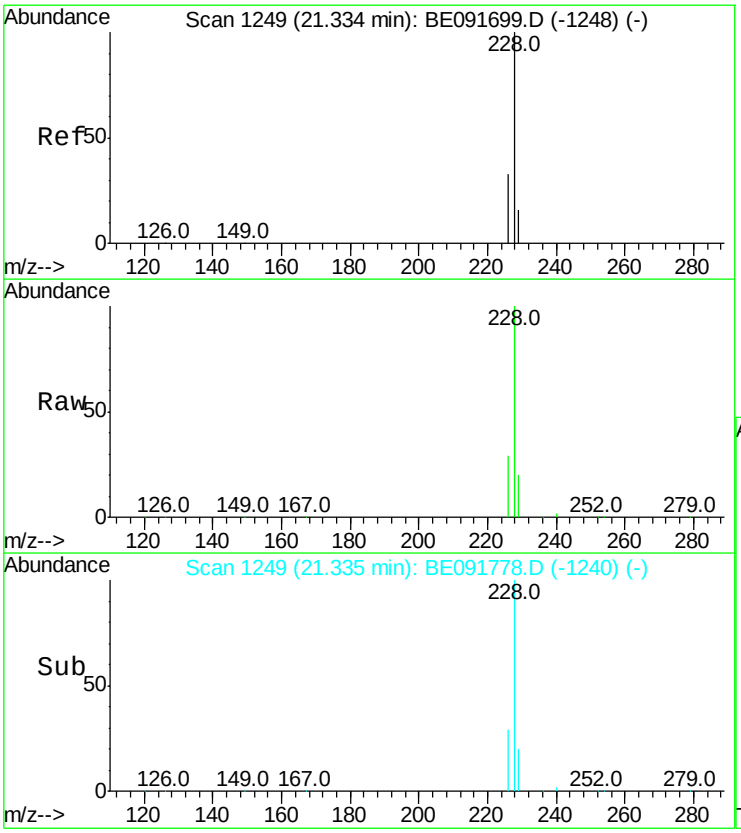
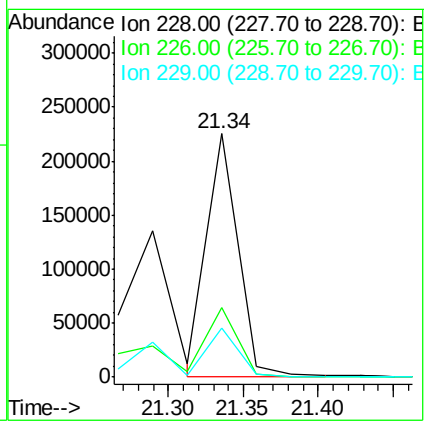


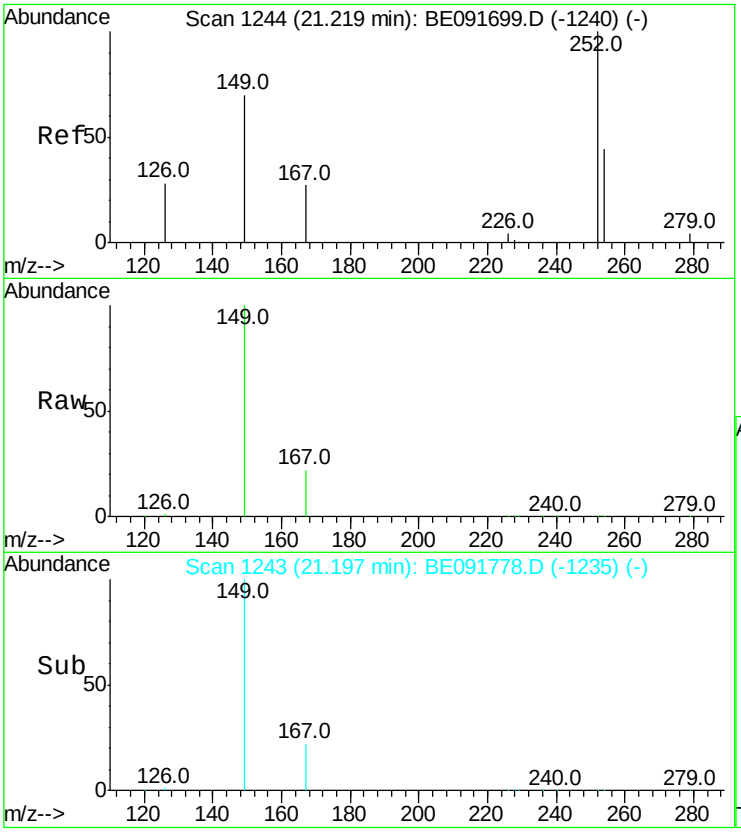


#32
Chrysene
Concen: 4.15 ng m
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:228 Resp: 330459

Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.0	36.0
229	20.2	15.9	23.9





#33
Bis(2-ethylhexyl)phthalate
Concen: 6.61 ng
RT: 21.20 min Scan# 1243
Delta R.T. -0.02 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:149 Resp: 153430

Ion	Ratio	Lower	Upper
149	100		
167	22.9	19.5	29.3
279	0.0	10.0	15.0#

Instrument :
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ClientSampleId :
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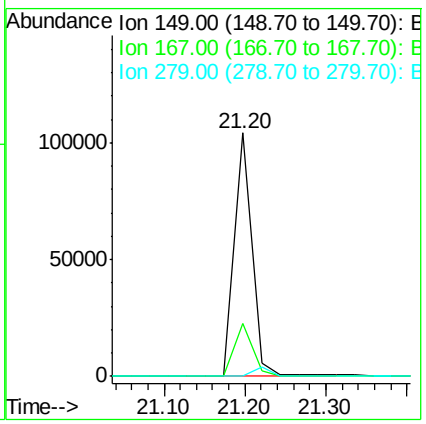
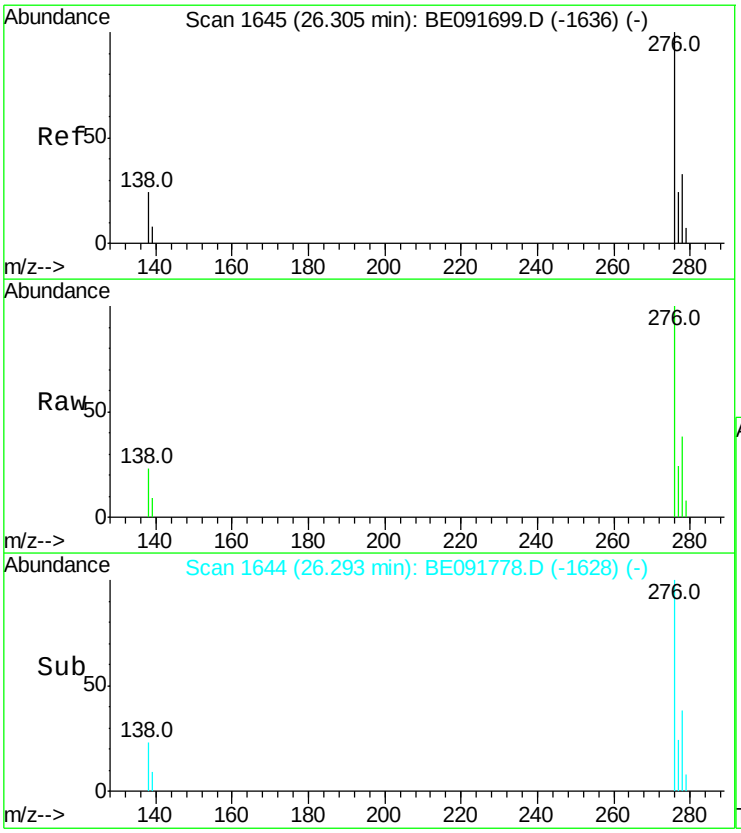
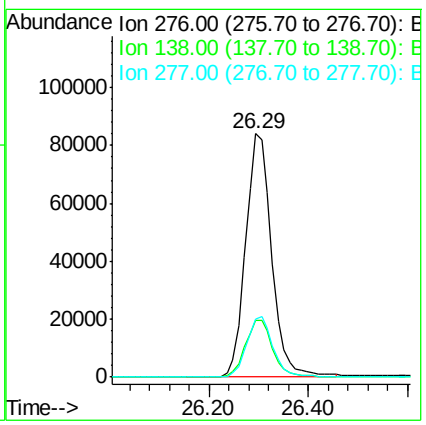


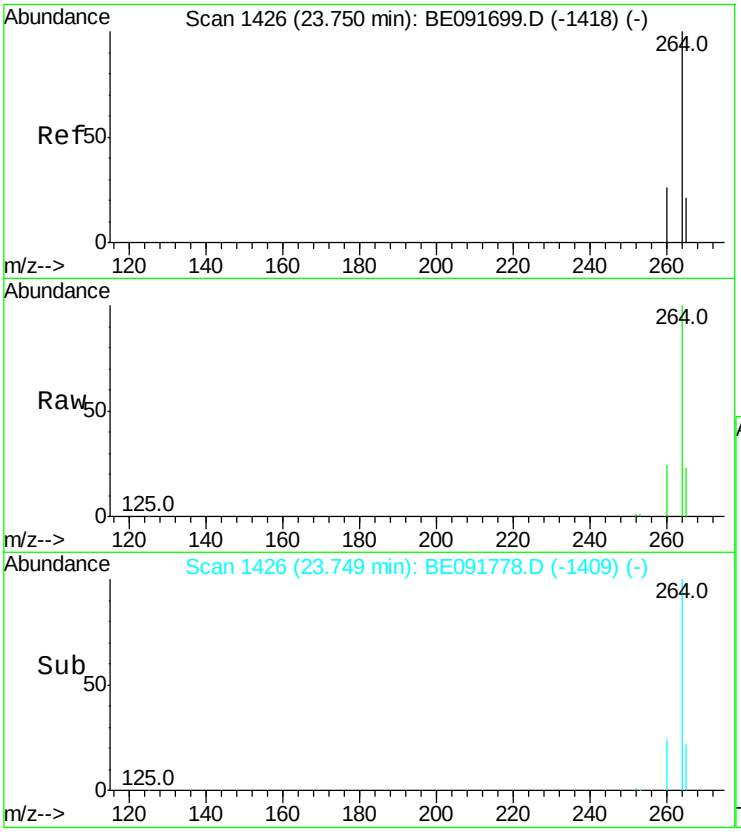


#34
Indeno(1,2,3-cd)pyrene
Concen: 4.37 ng
RT: 26.29 min Scan# 1644
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:276 Resp: 309718

Ion	Ratio	Lower	Upper
276	100		
138	24.5	23.4	35.2
277	24.9	19.8	29.8

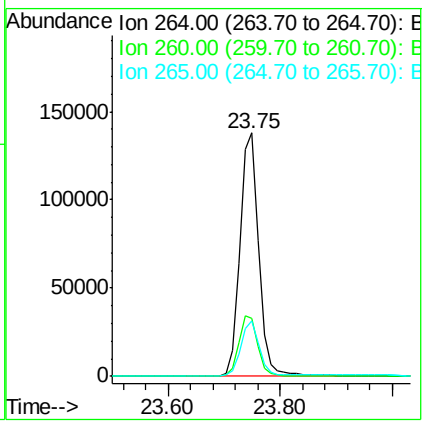




#35
Perylene-d12
Concen: 5.00 ng
RT: 23.75 min Scan# 1426
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:264 Resp: 323974

Ion	Ratio	Lower	Upper
264	100		
260	23.6	20.0	30.0
265	22.6	17.5	26.3



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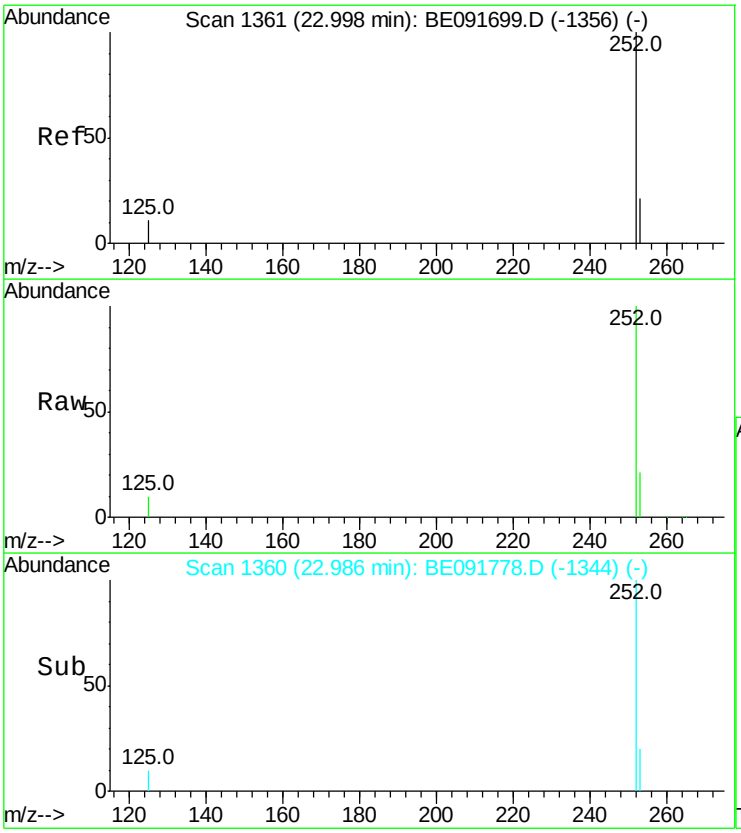
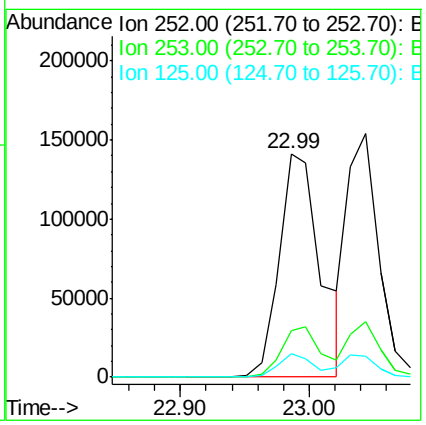
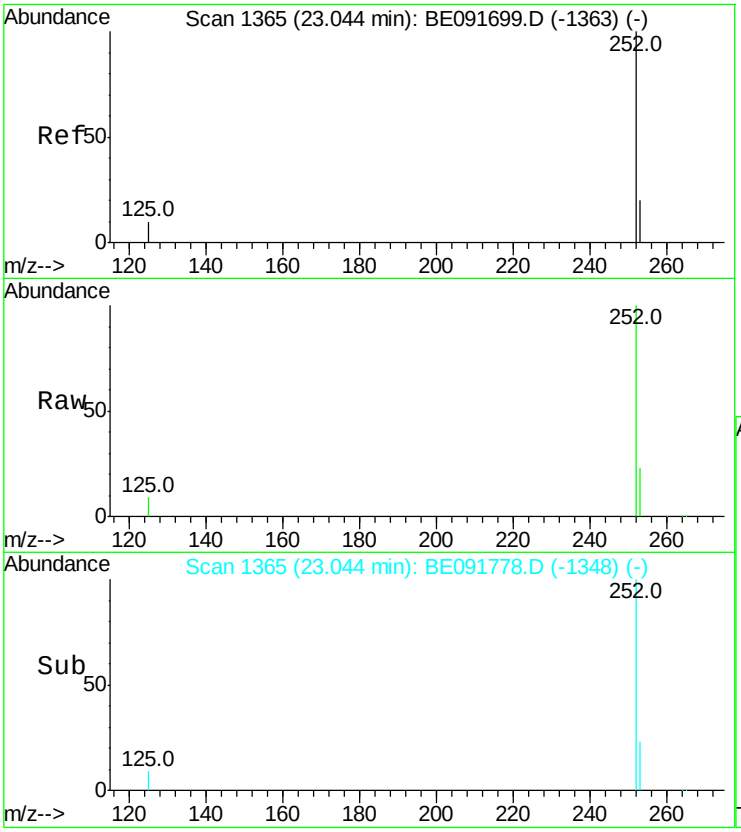


#36
Benzo(b)fluoranthene
Concen: 4.17 ng
RT: 22.99 min Scan# 1360
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:252 Resp: 316865

Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.4	26.0
125	10.3	10.2	15.2





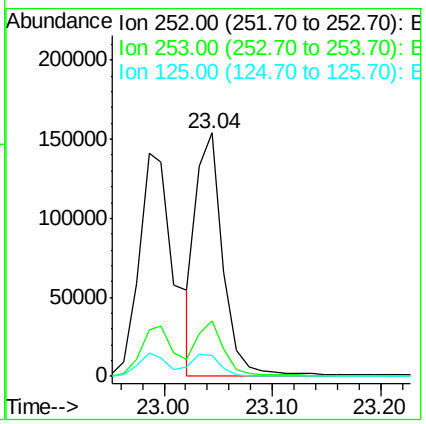
#37
Benzo(k)fluoranthene
Concen: 3.50 ng m
RT: 23.04 min Scan# 1365
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

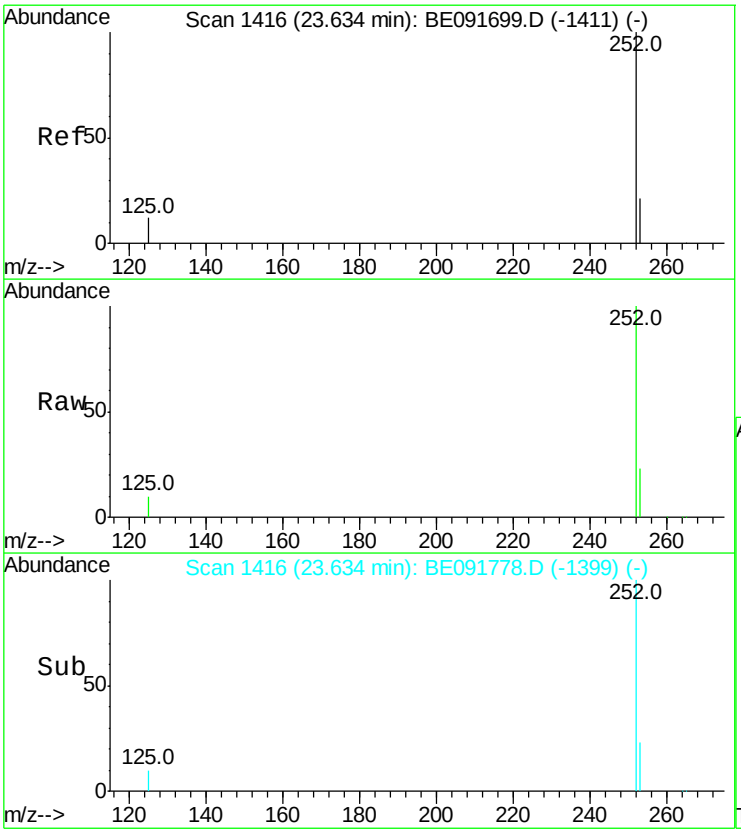
Tgt Ion:252 Resp: 270075

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.6	26.4
125	8.8	9.9	14.9#

Instrument :
BNA_E
ClientSampleId :
PB90589BS

Manual Integrations APPROVED
umangi
5/17/2016 7:17:15 PM

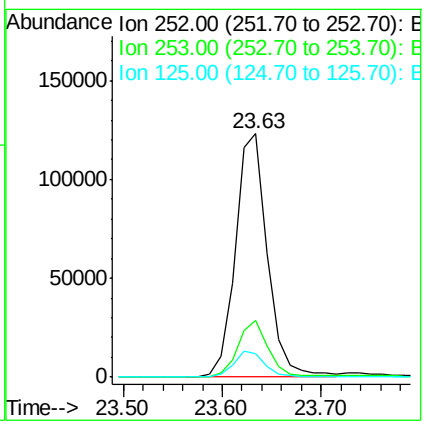


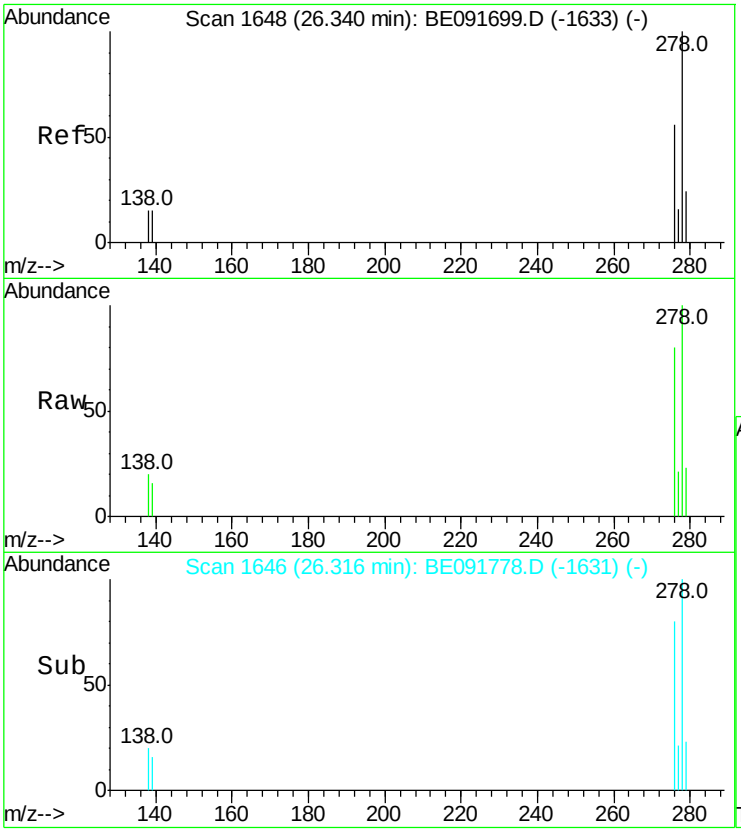


#38
Benzo(a)pyrene
Concen: 3.81 ng
RT: 23.63 min Scan# 1416
Delta R.T. -0.00 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:252 Resp: 272181

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	9.8	11.0	16.4#

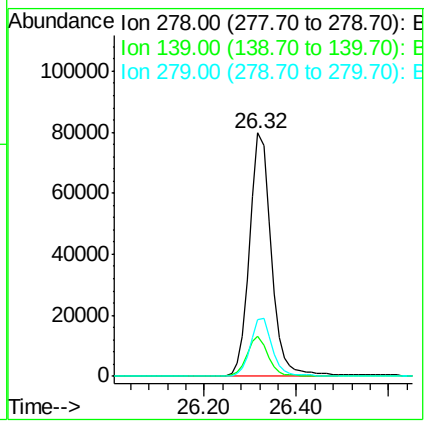




#39
Dibenzo(a,h)anthracene
Concen: 3.83 ng
RT: 26.32 min Scan# 1646
Delta R.T. -0.02 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

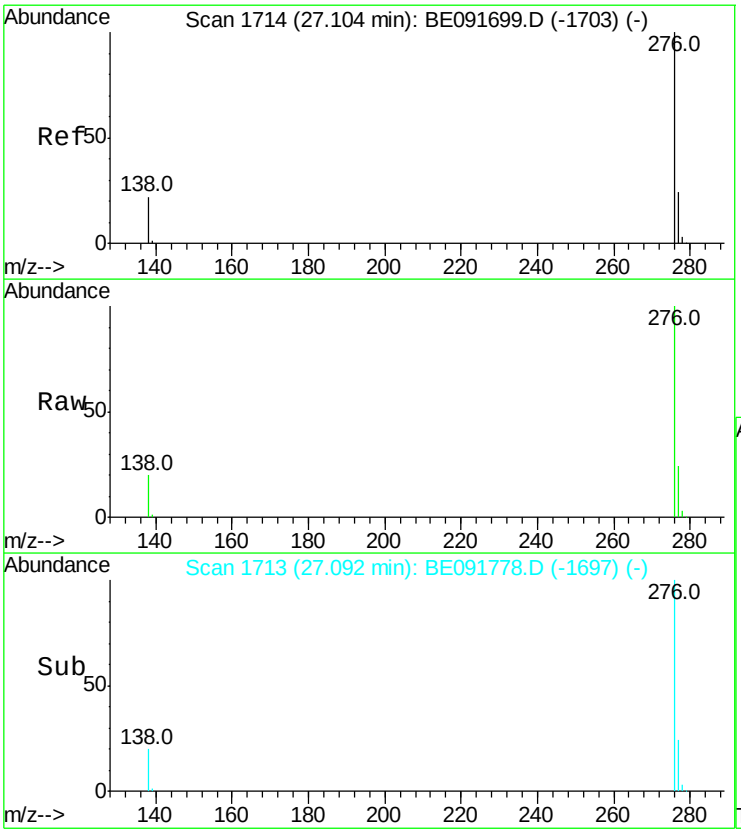
Tgt Ion:278 Resp: 259614

Ion	Ratio	Lower	Upper
278	100		
139	16.3	16.0	24.0
279	23.3	19.4	29.2



Instrument :
BNA_E
ClientSampleId :
PB90589BS

Manual Integrations APPROVED
umangi
5/17/2016 7:17:15 PM



#40
Benzo(g,h,i)perylene
Concen: 3.84 ng
RT: 27.09 min Scan# 1713
Delta R.T. -0.01 min
Lab File: BE091778.D
Acq: 16 May 2016 17:52

Tgt Ion:276 Resp: 264491

Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	20.1	20.4	30.6#