Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
Data File : BE092600.D
Acq On : 19 Dec 2016 9:58
Operator : UM/SJ
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

Quant Time: Dec 19 15:30:12 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 14:52:01 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	7329	5.00	ng		0.00
7) Naphthalene-d8	10.93	136	36494	5.00	ng		0.00
12) Acenaphthene-d10	14.80	164	26851	5.00	ng		0.00
18) Phenanthrene-d10	17.56	188	58242	5.00	ng		0.00
24) Chrysene-d12	21.72	240	79816	5.00	ng		0.00
31) Perylene-d12	24.08	264	68989	5.00	ng		0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.72	112	93m	0.08	ng		0.03
5) Phenol-d6	7.45	99	133	0.08	ng		0.07
8) Nitrobenzene-d5	9.48	82	166m	0.08	ng		0.12
13) 2,4,6-Tribromophenol	16.32	330	65	0.11	ng		0.01
14) 2-Fluorobiphenyl	13.46	172	754	0.12	ng		0.02
26) Terphenyl-d14	20.17	244	1109	0.12	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.39	88	193	0.19	ng	#	81
3) n-Nitrosodimethylamine	3.84	42	33	0.03	ng	#	2
6) bis(2-Chloroethyl)ether	7.64	93	116m	0.06	ng		
9) Naphthalene	10.99	128	943	0.13	ng	#	71
10) Hexachlorobutadiene	11.26	225	143	0.12	ng		92
11) 2-Methylnaphthalene	12.66	142	550m	0.11	ng		
15) Acenaphthylene	14.51	152	4348	0.12	ng		100
16) Acenaphthene	14.87	154	805	0.13	ng		93
17) Fluorene	15.87	166	884	0.12	ng		99
19) Hexachlorobenzene	16.86	284	282m	0.12	ng		
20) Pentachlorophenol	17.26	266	53	0.12	ng	#	80
21) Phenanthrene	17.58	178	1772	0.14	ng	#	78
22) Anthracene	17.69	178	1447	0.12	ng		97
23) Fluoranthene	19.61	202	7369	0.12	ng		98
25) Pyrene	19.97	202	8203	0.13	ng		99
27) Benzo(a)anthracene	21.70	228	8634m	0.12	ng		
28) Chrysene	21.75	228	9668m	0.14	ng		
29) Bis(2-ethylhexyl)phthalate	21.61	149	758	0.16	ng	#	78
30) Indeno(1,2,3-cd)pyrene	26.58	276	7890	0.10	ng		98
32) Benzo(b)fluoranthene	23.35	252	1768	0.11	ng	#	88
33) Benzo(k)fluoranthene	23.39	252	2207	0.13	ng	#	88
34) Benzo(a)pyrene	23.96	252	1735	0.11	ng	#	81
35) Dibenzo(a,h)anthracene	26.60	278	1593	0.10	ng	#	76
36) Benzo(g,h,i)perylene	27.33	276	7199	0.11	ng	#	85

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

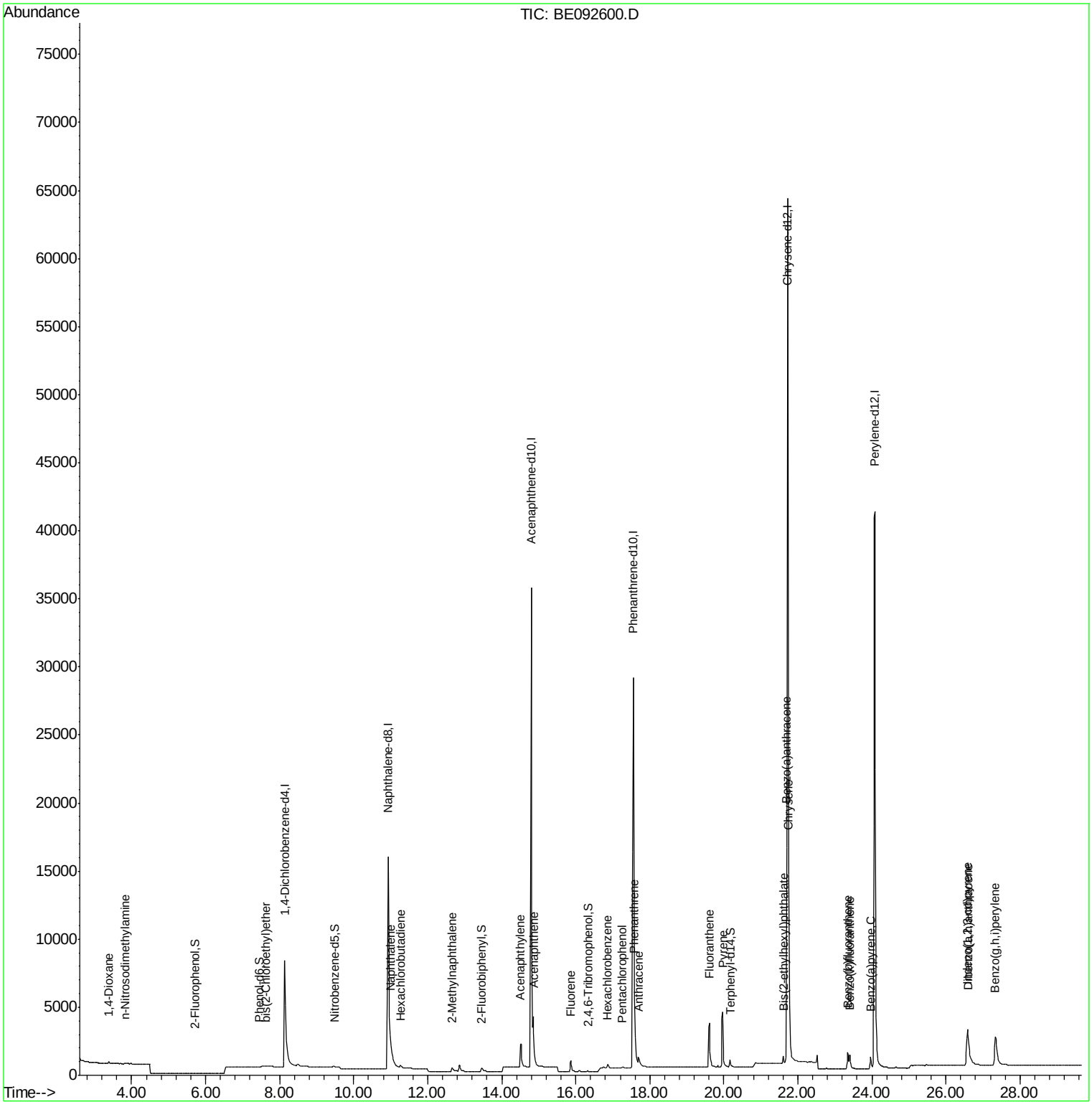
Quantitation Report (QT Reviewed)

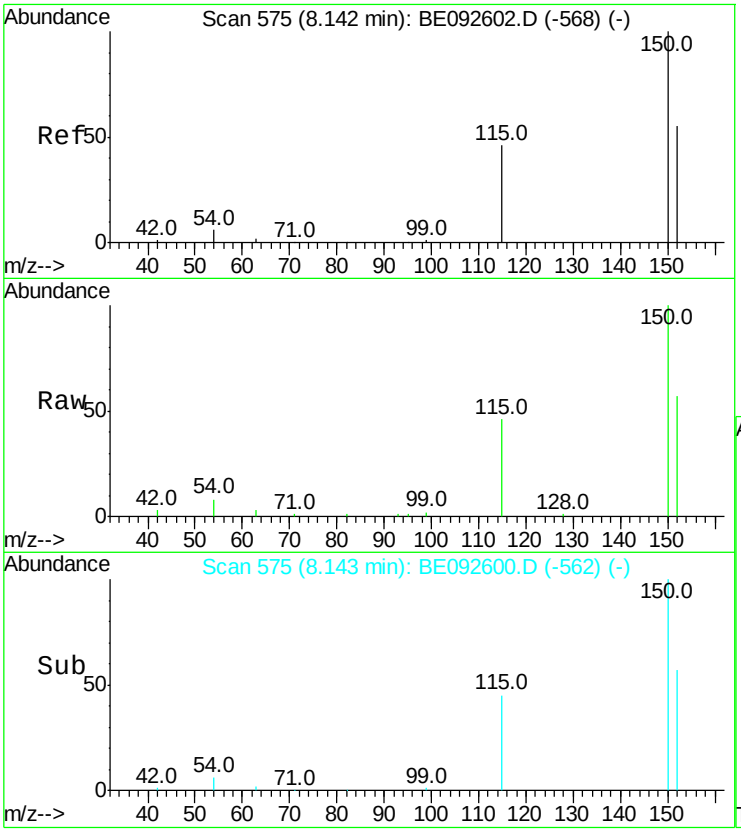
Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
Data File : BE092600.D
Acq On : 19 Dec 2016 9:58
Operator : UM/SJ
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 15:30:12 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 14:52:01 2016
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

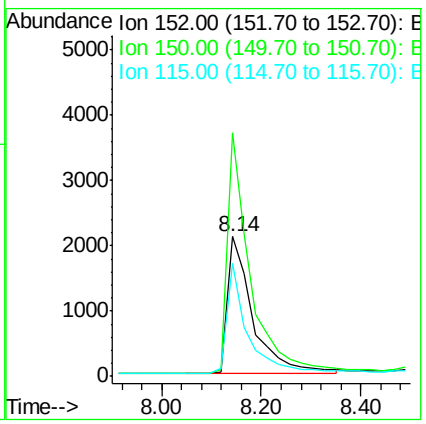




#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.14 min Scan# 575
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

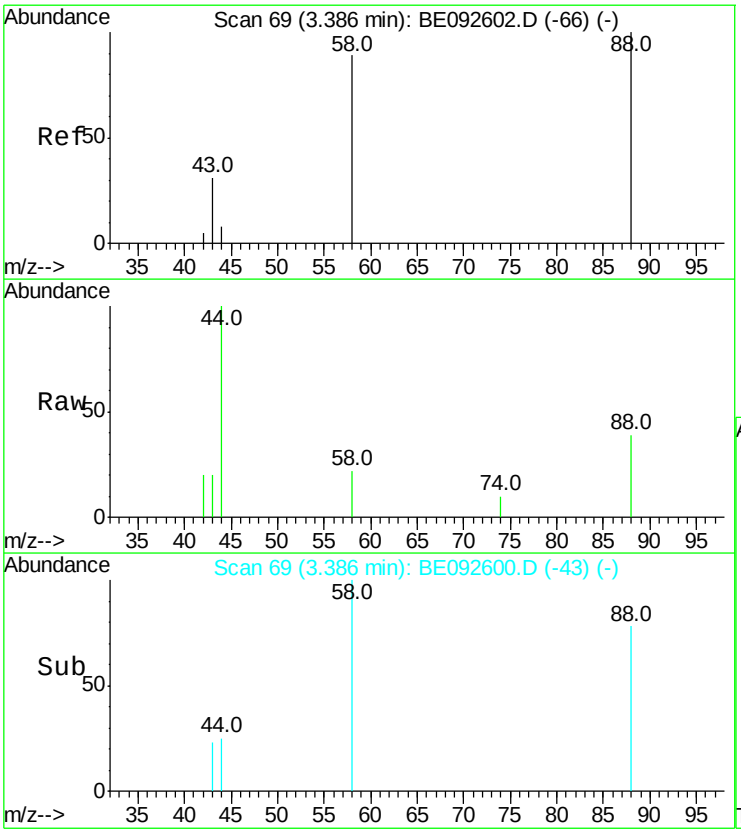
Tgt Ion:152 Resp: 7329

Ion	Ratio	Lower	Upper
152	100		
150	174.7	106.0	159.0#
115	80.9	31.2	46.8#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

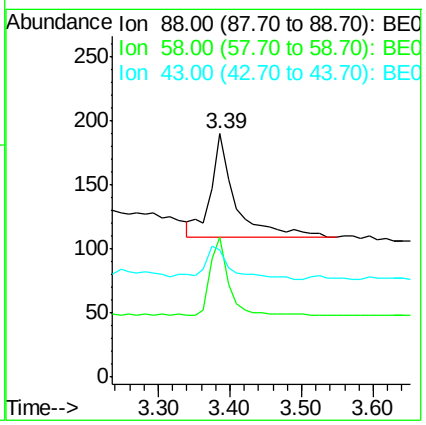
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

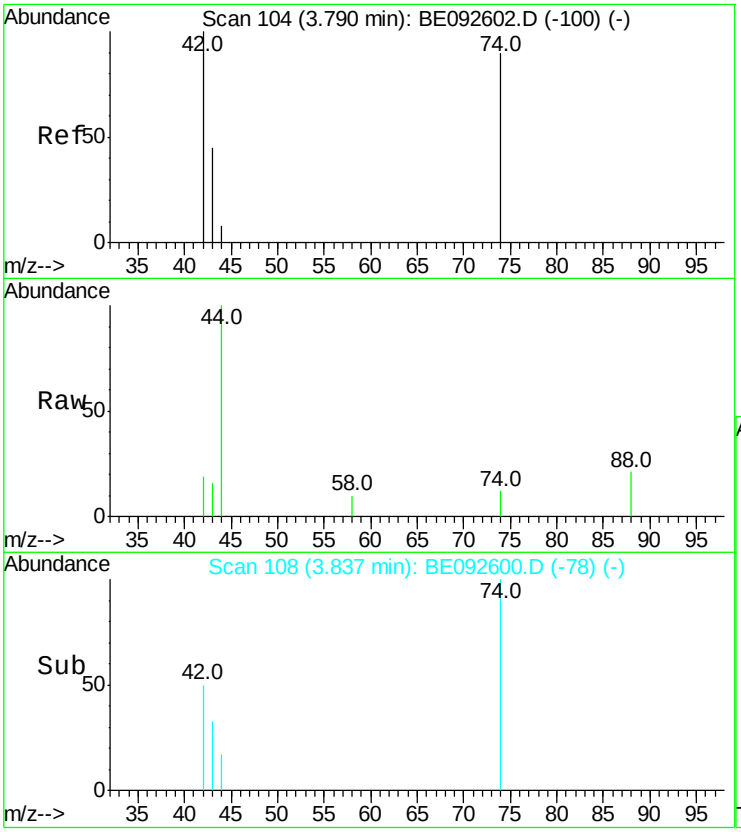


#2
1,4-Dioxane
Concen: 0.19 ng
RT: 3.39 min Scan# 69
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion: 88 Resp: 193

Ion	Ratio	Lower	Upper
88	100		
58	56.0	63.6	95.4#
43	35.8	28.0	42.0





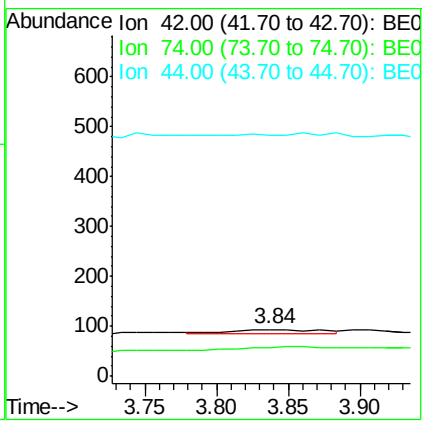
#3
n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.84 min Scan# 108
Delta R.T. 0.05 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

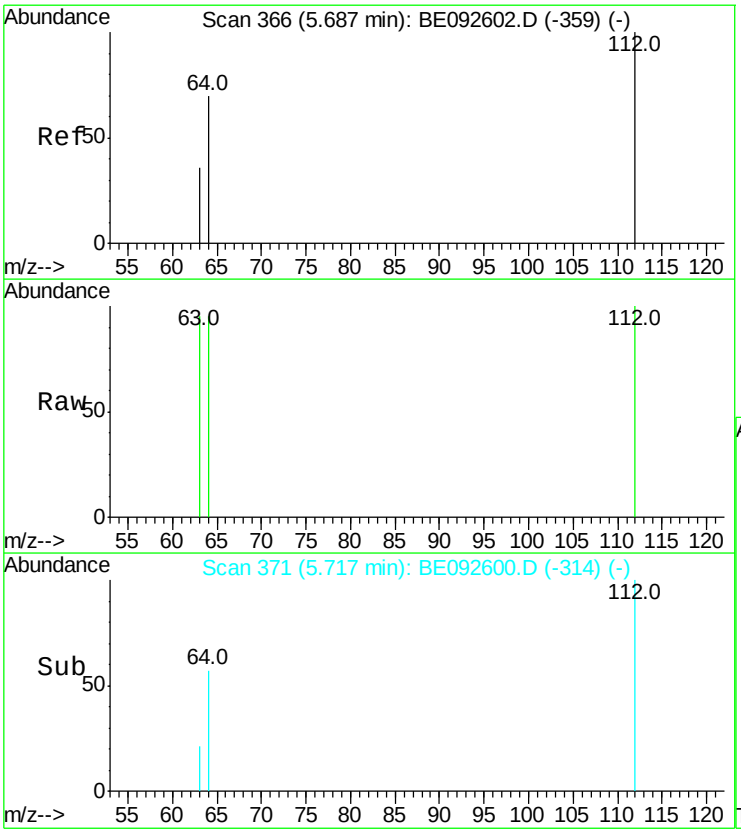
Tgt Ion: 42 Resp: 33

Ion	Ratio	Lower	Upper
42	100		
74	0.0	86.0	129.0#
44	0.0	5.1	7.7#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

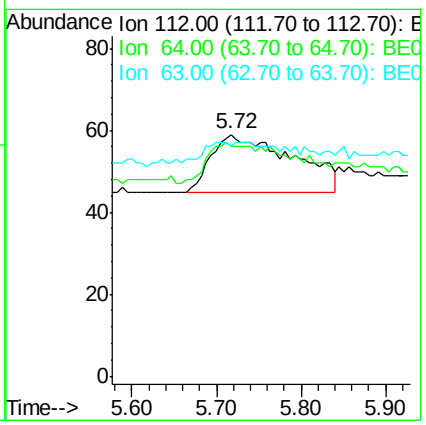


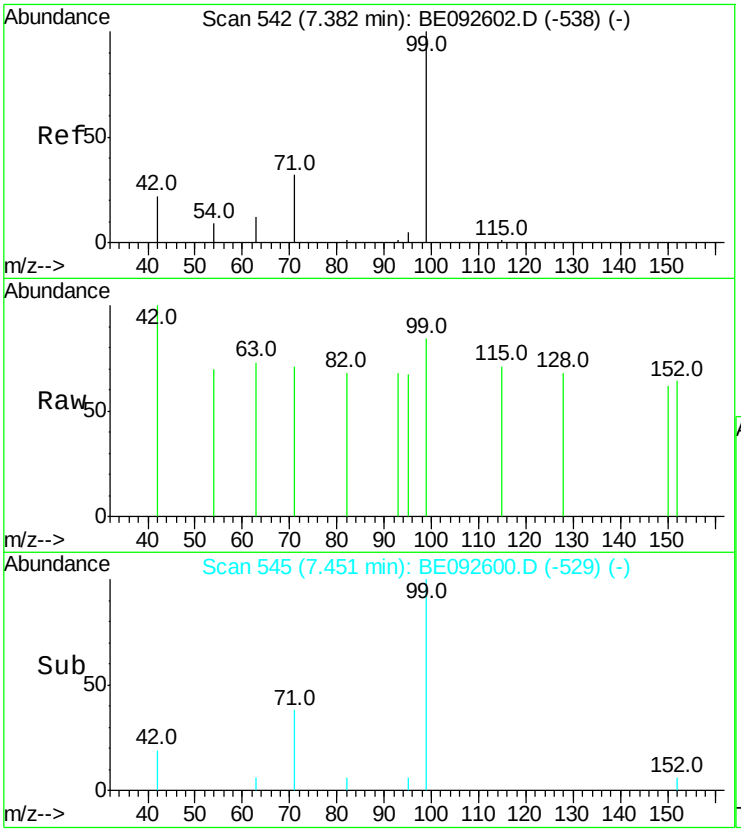


#4
2-Fluorophenol
Concen: 0.08 ng m
RT: 5.72 min Scan# 371
Delta R.T. 0.03 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:112 Resp: 93

Ion	Ratio	Lower	Upper
112	100		
64	38.7	53.5	80.3#
63	12.9	27.9	41.9#





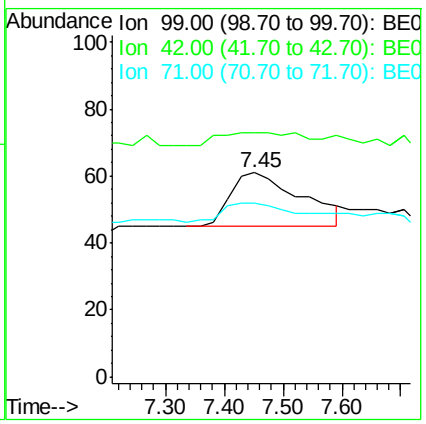
#5
Phenol-d6
Concen: 0.08 ng
RT: 7.45 min Scan# 545
Delta R.T. 0.07 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

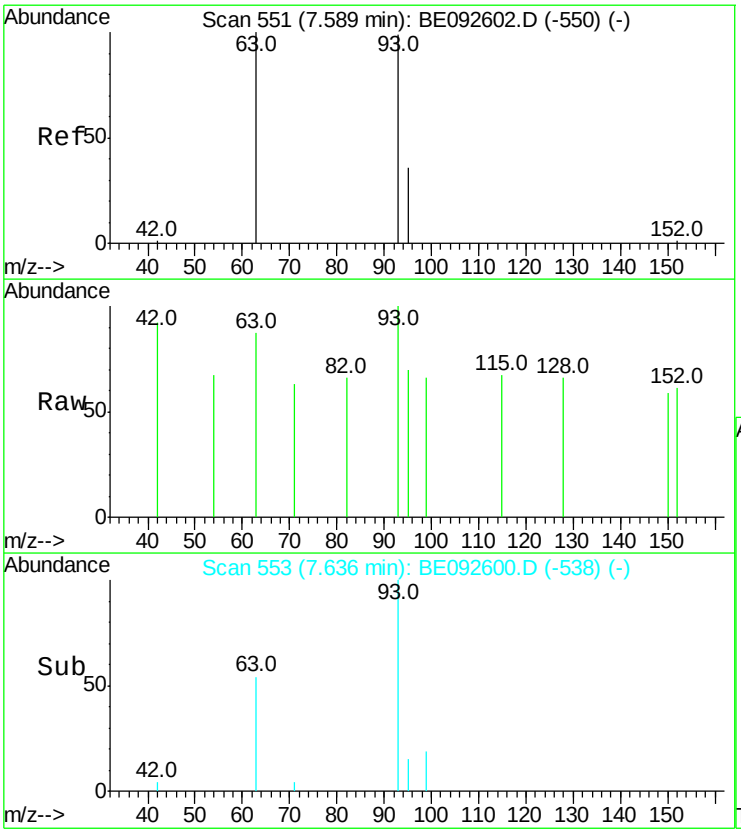
Tgt Ion: 99 Resp: 133

Ion	Ratio	Lower	Upper
99	100		
42	0.0	16.0	24.0#
71	0.0	30.6	45.8#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

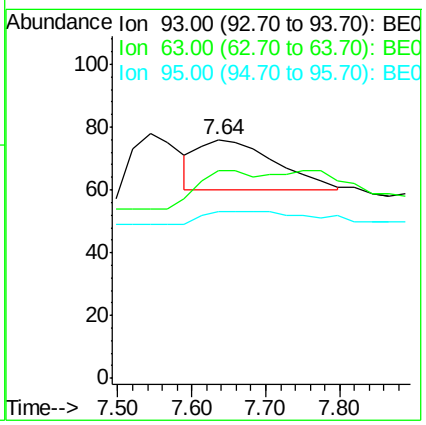


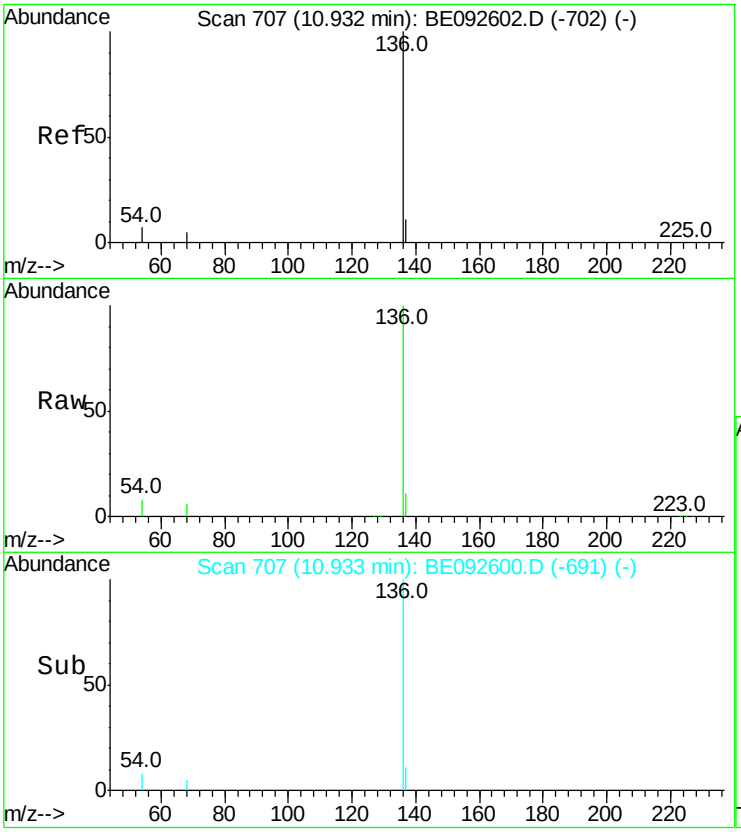


#6
bis(2-Chloroethyl)ether
Concen: 0.06 ng m
RT: 7.64 min Scan# 553
Delta R.T. 0.05 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion: 93 Resp: 116

Ion	Ratio	Lower	Upper
93	100		
63	0.0	71.6	107.4#
95	0.0	24.0	36.0#

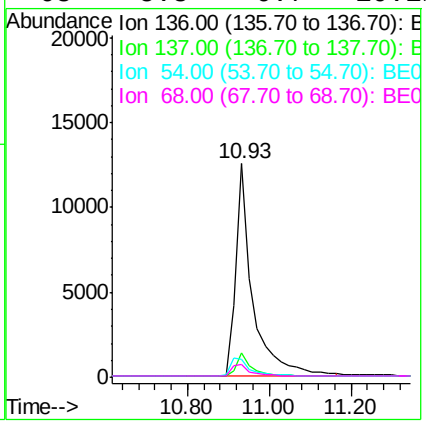




#7
Naphthalene-d8
Concen: 5.00 ng
RT: 10.93 min Scan# 707
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

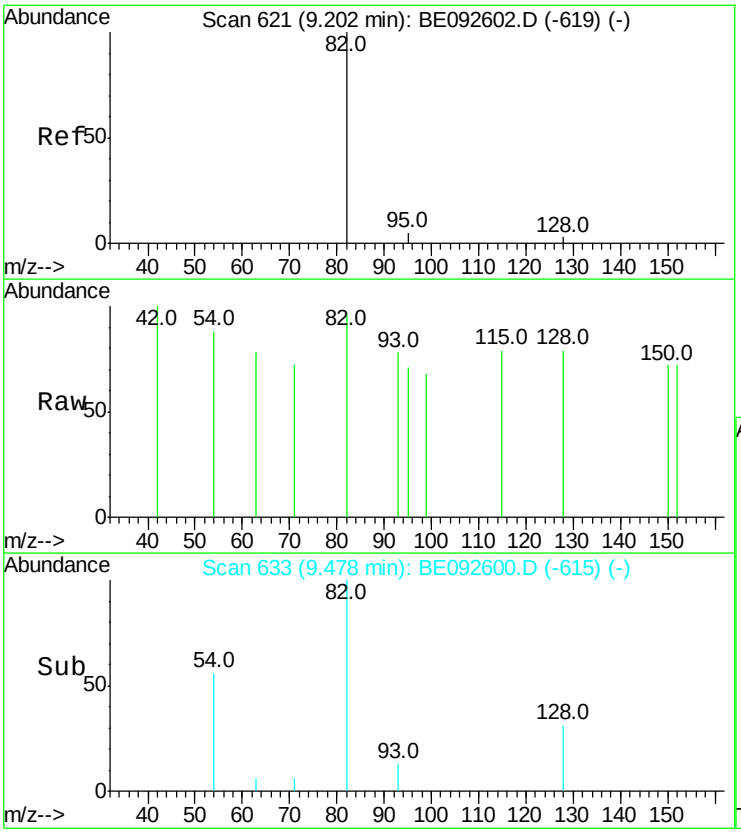
Tgt Ion:136 Resp: 36494

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.2	12.4
54	8.2	9.6	14.4#
68	5.8	6.7	10.1#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

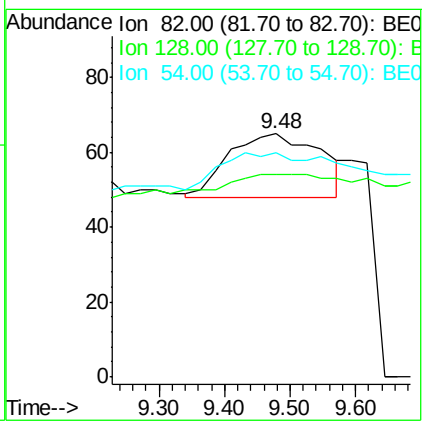
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

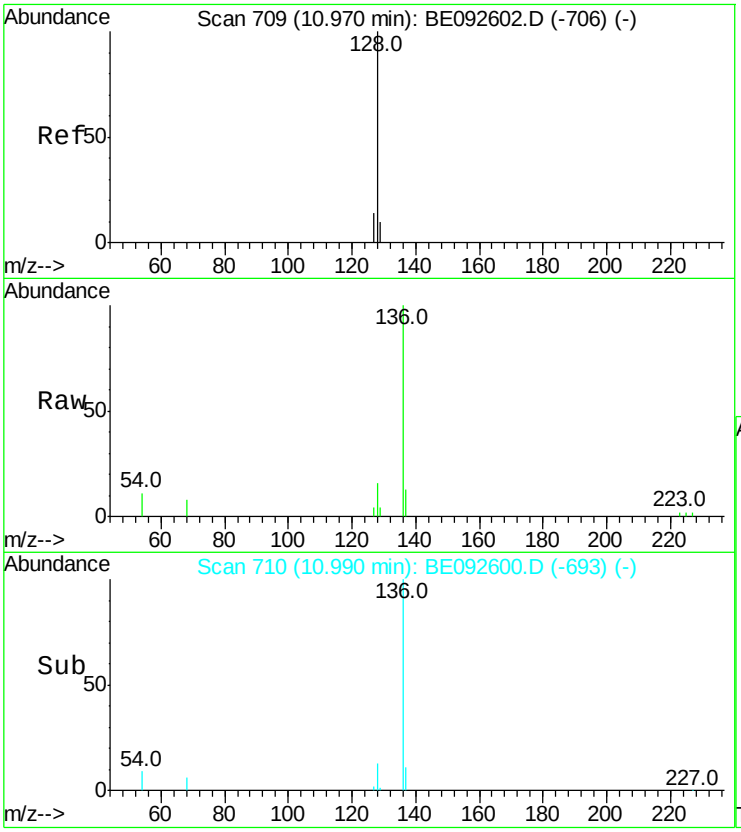


#8
Nitrobenzene-d5
Concen: 0.08 ng m
RT: 9.48 min Scan# 633
Delta R.T. 0.12 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion: 82 Resp: 166

Ion	Ratio	Lower	Upper
82	100		
128	83.1	39.0	58.4#
54	92.3	44.8	67.2#

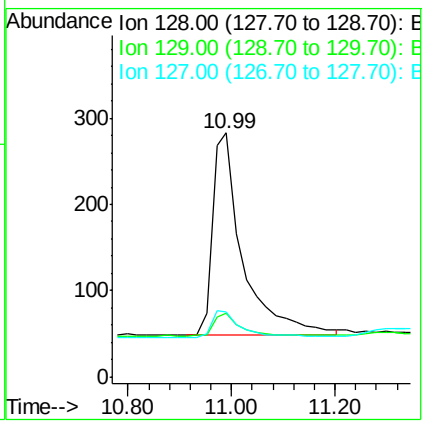




#9
Naphthalene
Concen: 0.13 ng
RT: 10.99 min Scan# 710
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

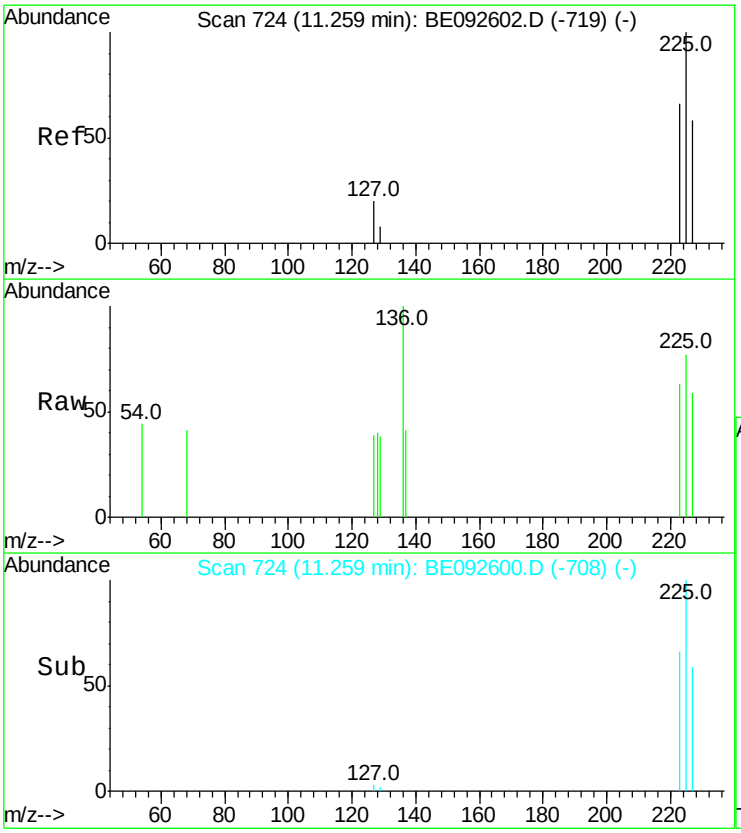
Tgt Ion:128 Resp: 943

Ion	Ratio	Lower	Upper
128	100		
129	25.8	11.2	16.8#
127	26.5	11.6	17.4#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

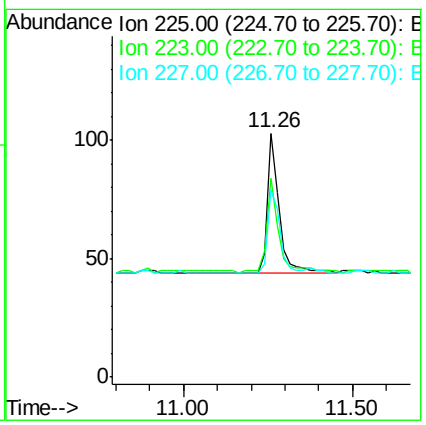
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

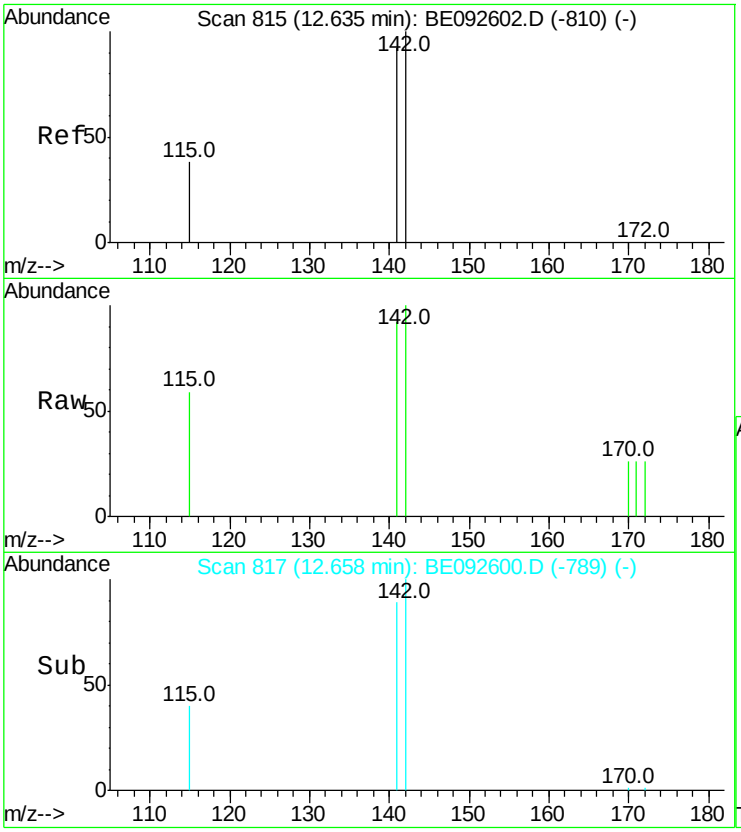


#10
Hexachlorobutadiene
Concen: 0.12 ng
RT: 11.26 min Scan# 724
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:225 Resp: 143

Ion	Ratio	Lower	Upper
225	100		
223	73.4	50.6	76.0
227	62.2	51.4	77.0

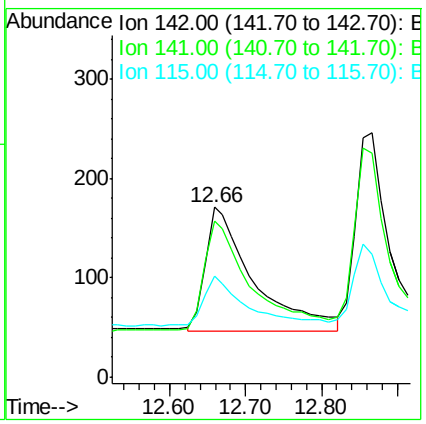




#11
2-Methylnaphthalene
Concen: 0.11 ng m
RT: 12.66 min Scan# 817
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

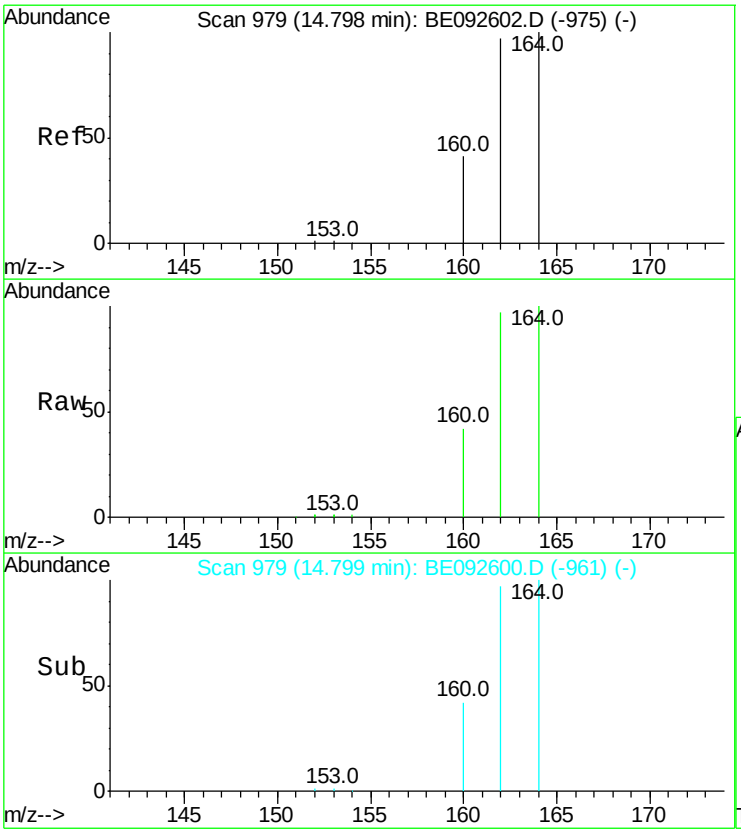
Tgt Ion:142 Resp: 550

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.7	110.5
115	59.1	34.0	51.0#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

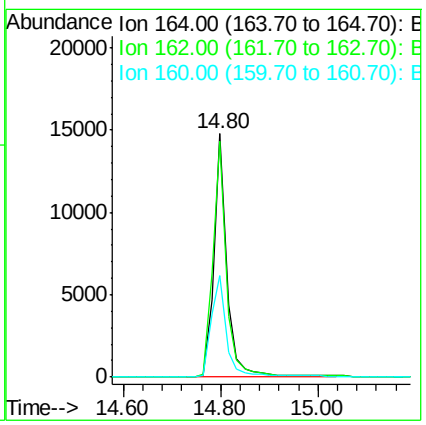
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

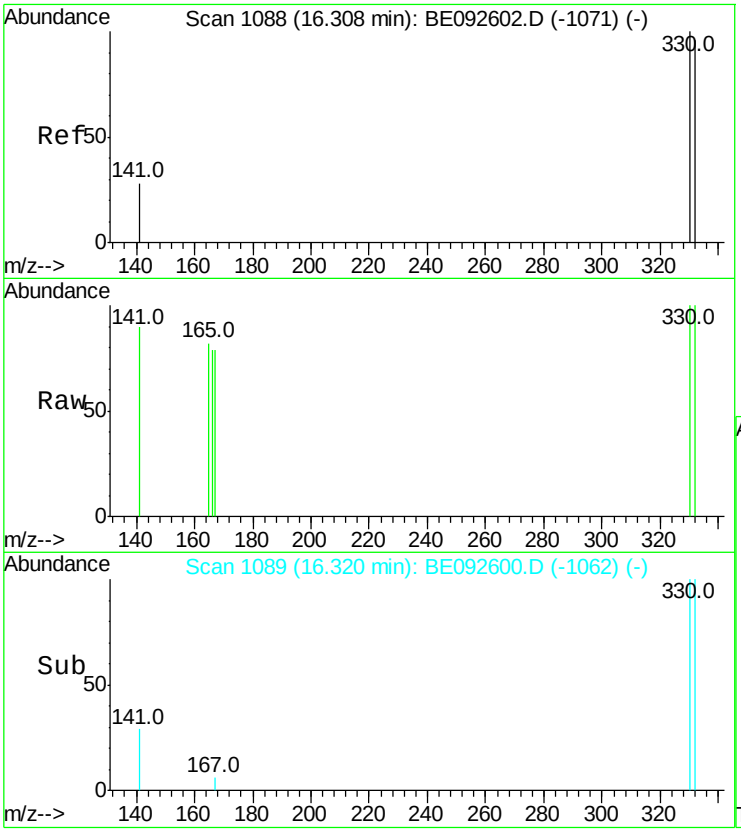


#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.80 min Scan# 979
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:164 Resp: 26851

Ion	Ratio	Lower	Upper
164	100		
162	96.9	71.4	107.0
160	41.7	27.4	41.2#





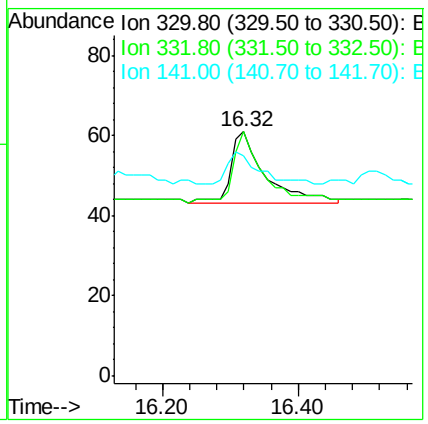
#13
2,4,6-Tribromophenol
Concen: 0.11 ng
RT: 16.32 min Scan# 1089
Delta R.T. 0.01 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

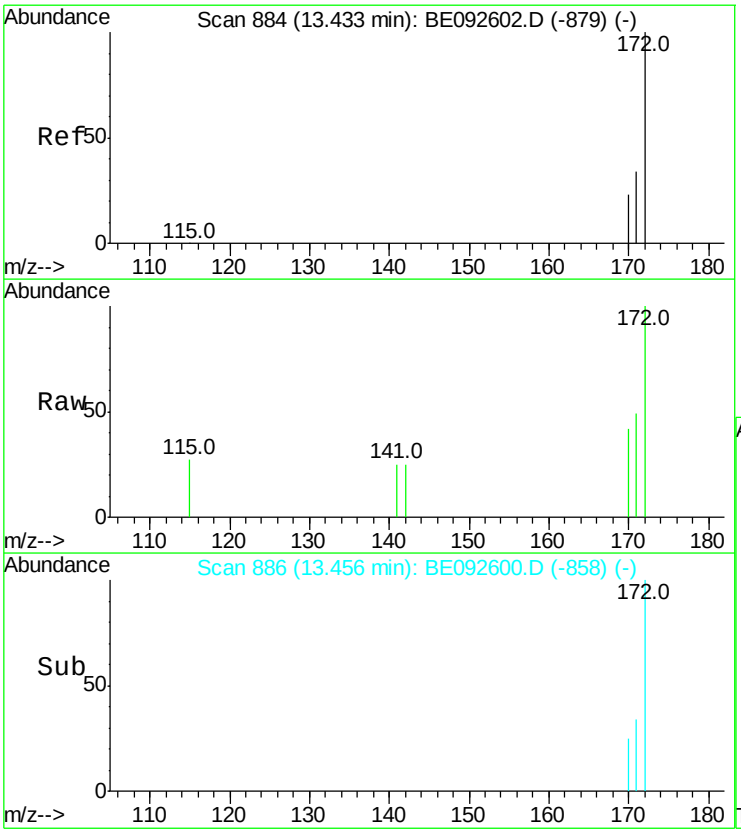
Tgt Ion:330 Resp: 65

Ion	Ratio	Lower	Upper
330	100		
332	83.1	75.4	113.0
141	38.5	31.0	46.6

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

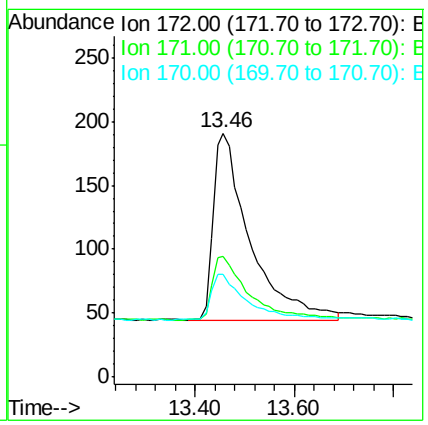


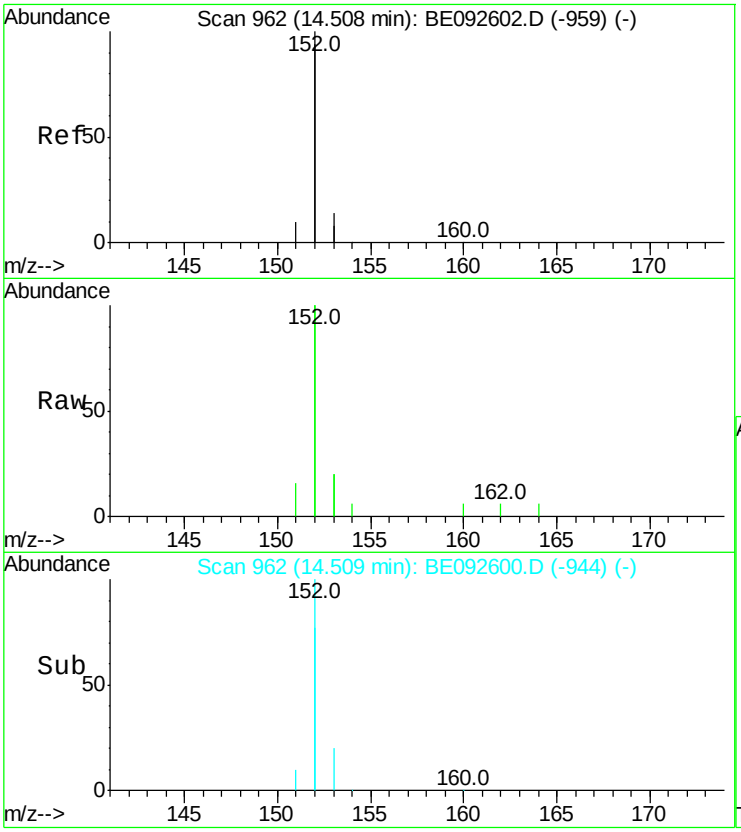


#14
2-Fluorobiphenyl
Concen: 0.12 ng
RT: 13.46 min Scan# 886
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:172 Resp: 754

Ion	Ratio	Lower	Upper
172	100		
171	49.2	30.1	45.1#
170	41.9	21.8	32.6#

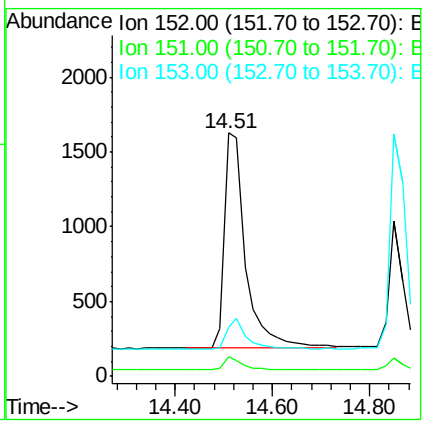




#15
Acenaphthylene
Concen: 0.12 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

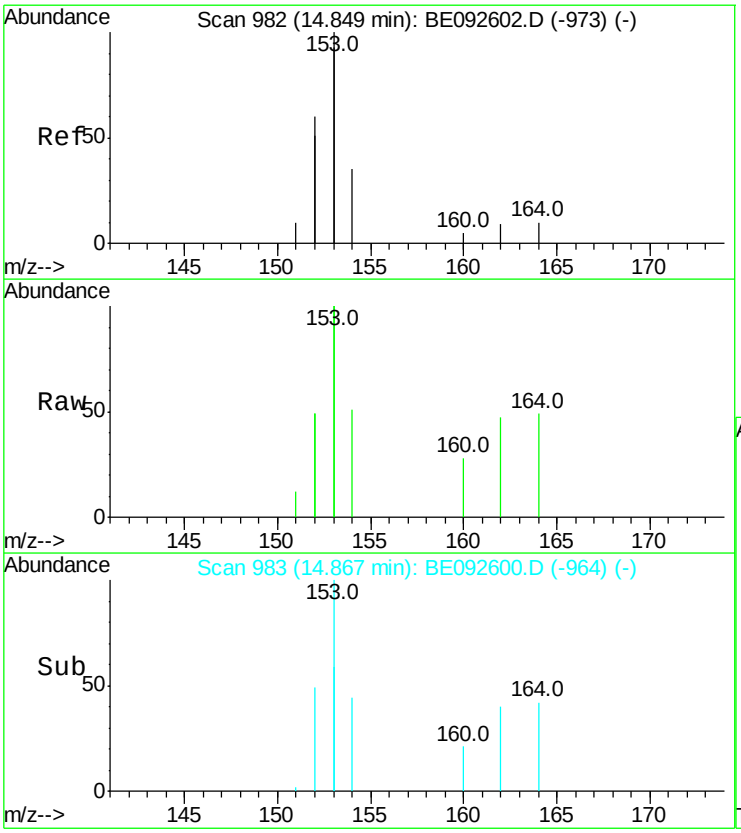
Tgt Ion:152 Resp: 4348

Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.9	5.9
153	13.2	10.4	15.6



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

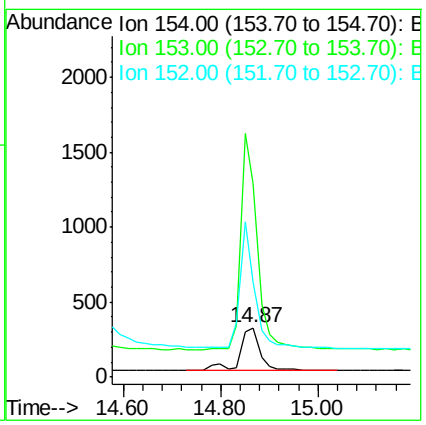
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

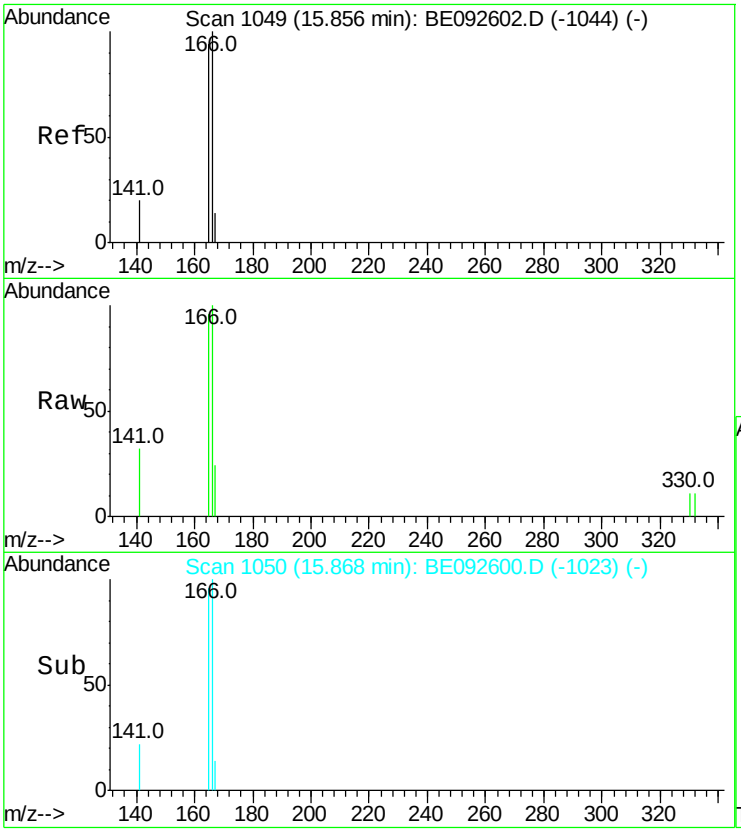


#16
Acenaphthene
Concen: 0.13 ng
RT: 14.87 min Scan# 983
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:154 Resp: 805

Ion	Ratio	Lower	Upper
154	100		
153	416.6	350.8	526.2
152	217.6	171.1	256.7





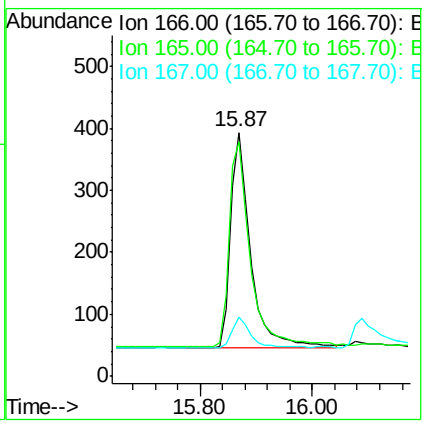
#17
Fluorene
Concen: 0.12 ng
RT: 15.87 min Scan# 1050
Delta R.T. 0.01 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

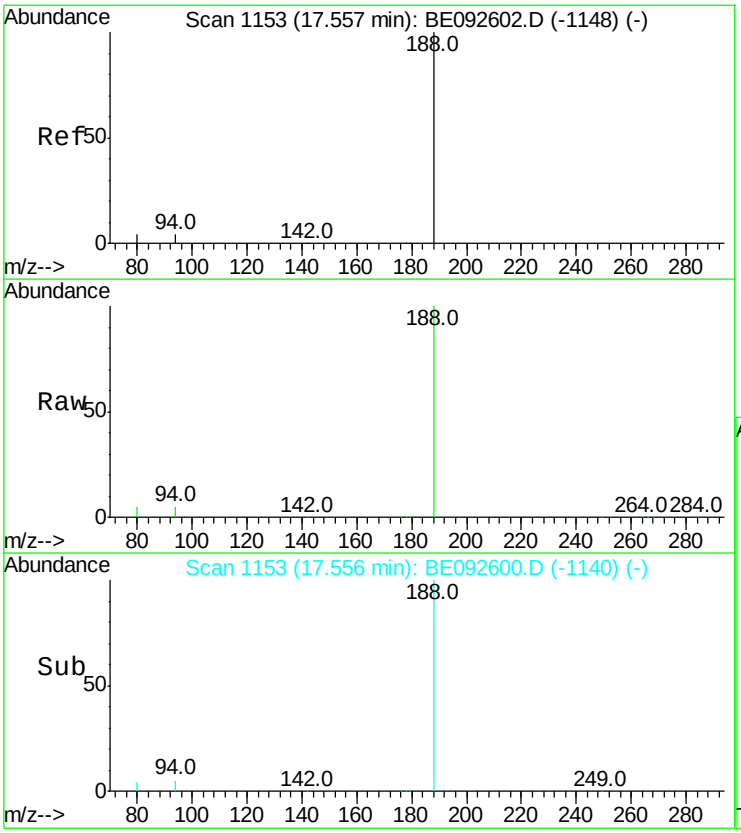
Tgt Ion:166 Resp: 884

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.2	117.4
167	13.0	11.0	16.4

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

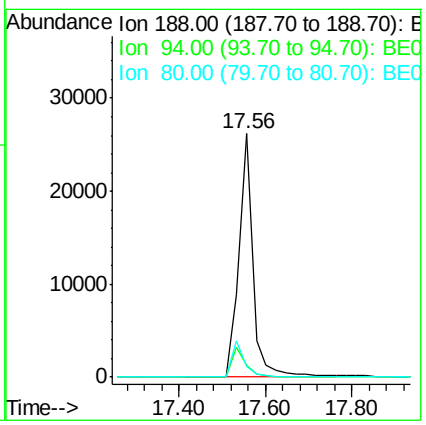


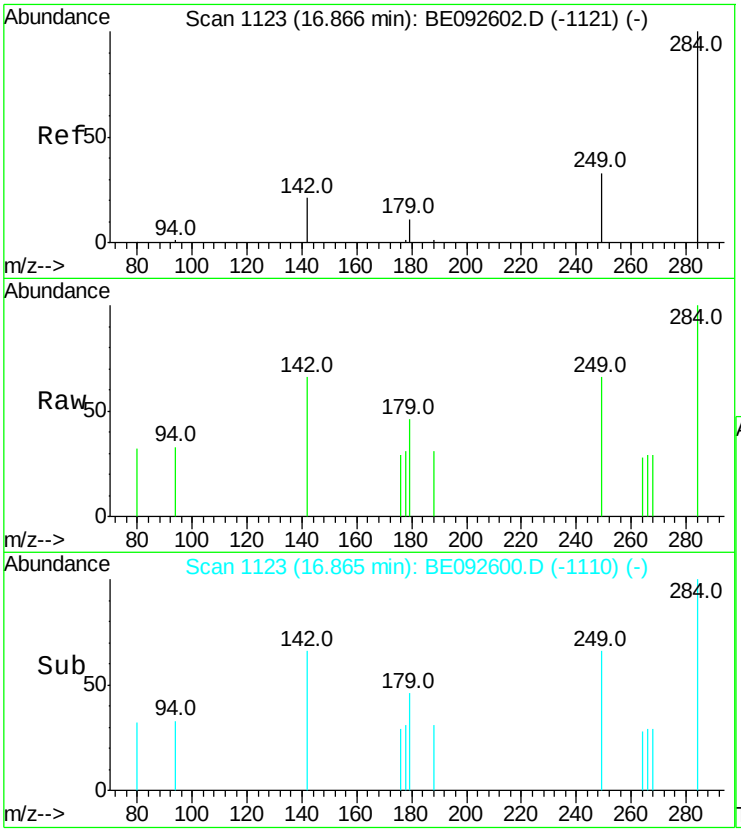


#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:188 Resp: 58242

Ion	Ratio	Lower	Upper
188	100		
94	5.0	3.2	4.8#
80	4.6	2.6	3.8#

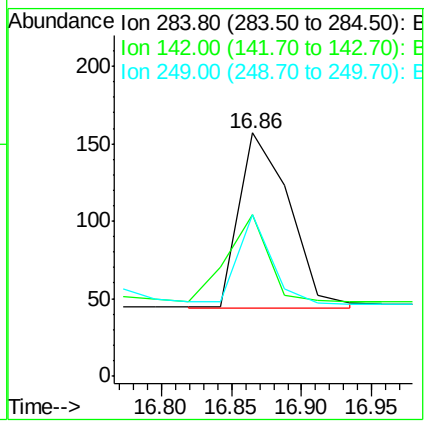




#19
Hexachlorobenzene
Concen: 0.12 ng m
RT: 16.86 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

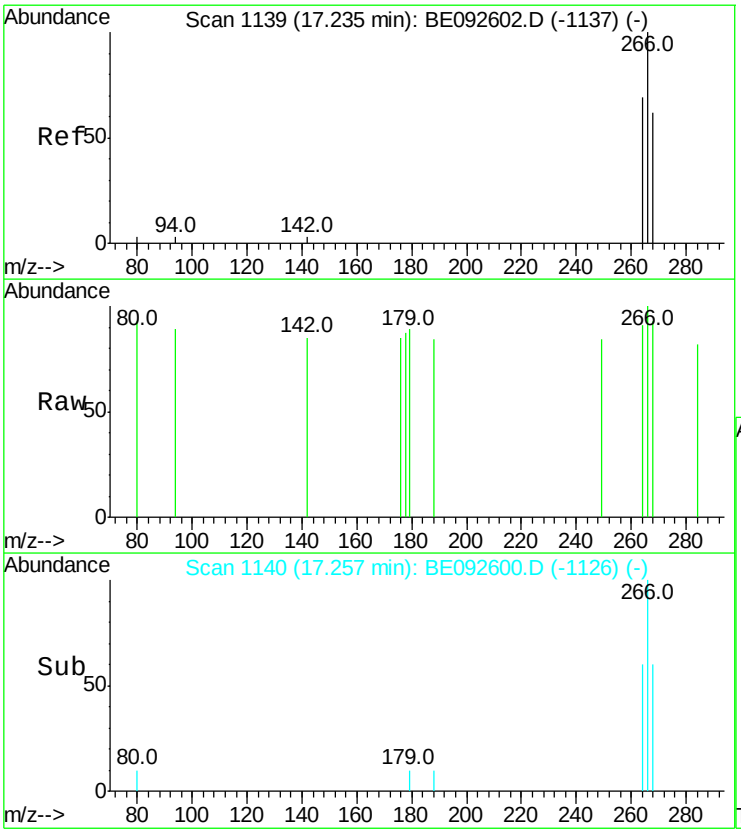
Tgt Ion:284 Resp: 282

Ion	Ratio	Lower	Upper
284	100		
142	89.4	29.1	43.7#
249	64.2	27.9	41.9#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

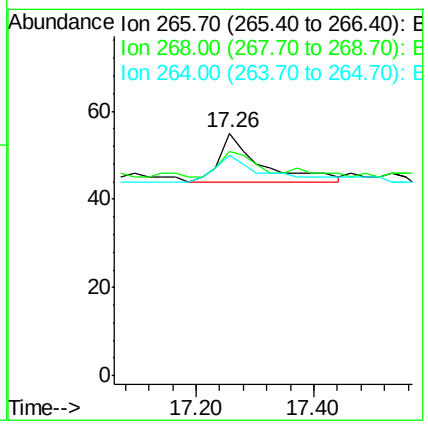
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

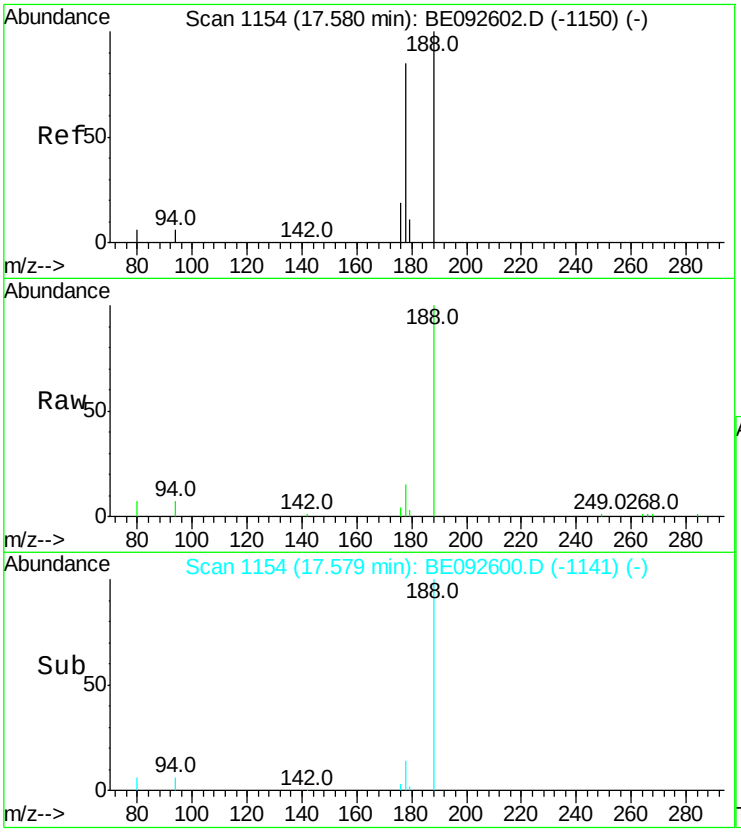


#20
Pentachlorophenol
Concen: 0.12 ng
RT: 17.26 min Scan# 1140
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:266 Resp: 53

Ion	Ratio	Lower	Upper
266	100		
268	92.7	62.5	93.7
264	90.9	57.2	85.8#

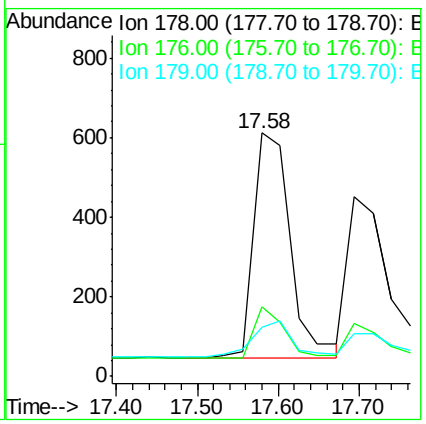




#21
Phenanthrene
Concen: 0.14 ng
RT: 17.58 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

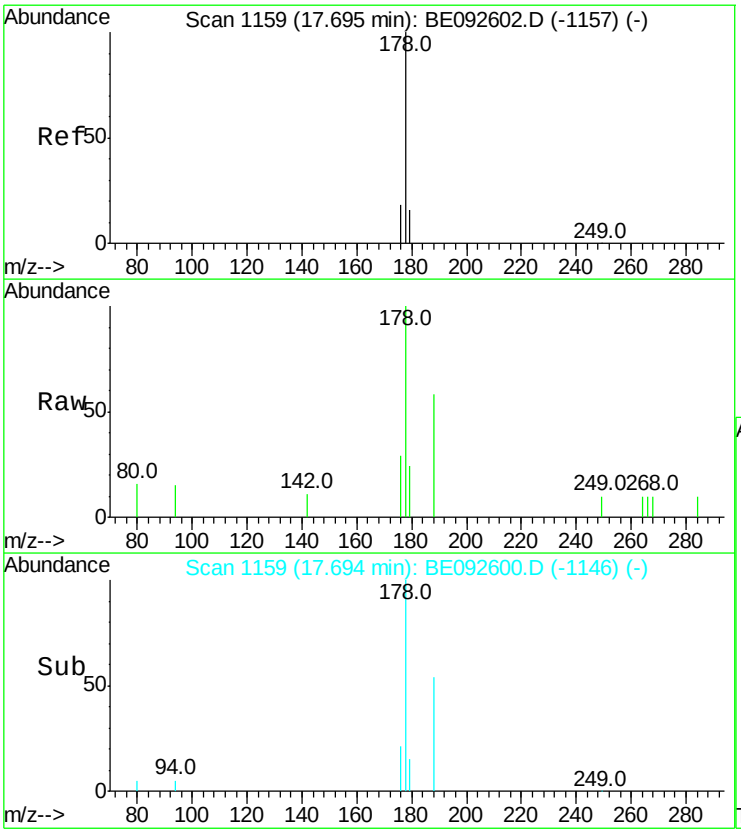
Tgt Ion:178 Resp: 1772

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	0.0	16.0	24.0#



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

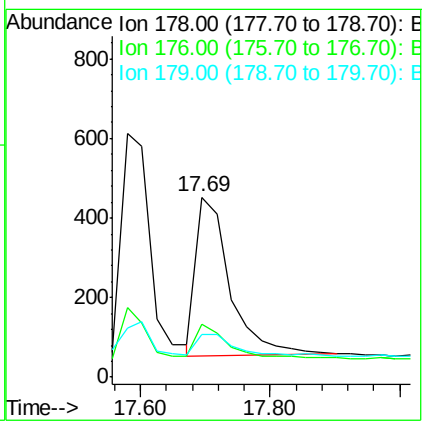
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

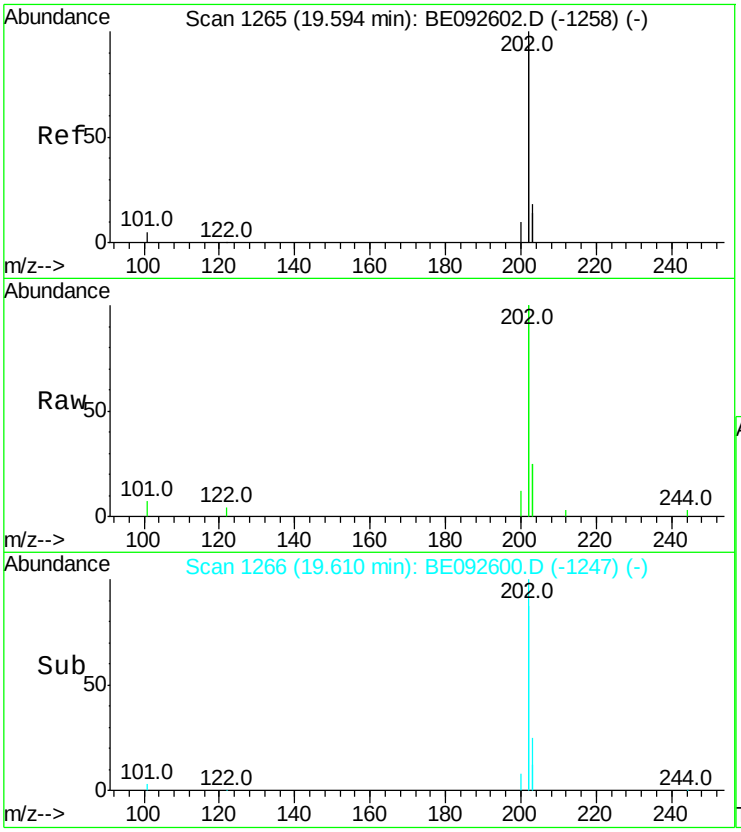


#22
Anthracene
Concen: 0.12 ng
RT: 17.69 min Scan# 1159
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:178 Resp: 1447

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	16.4	12.2	18.2

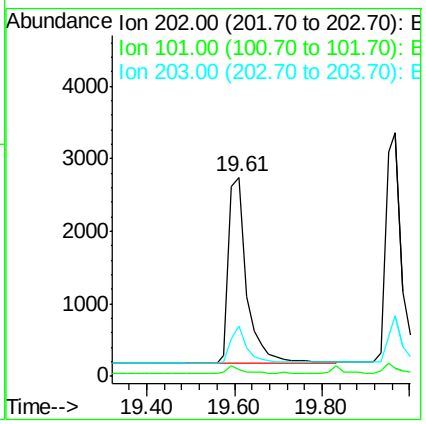




#23
Fluoranthene
Concen: 0.12 ng
RT: 19.61 min Scan# 1266
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

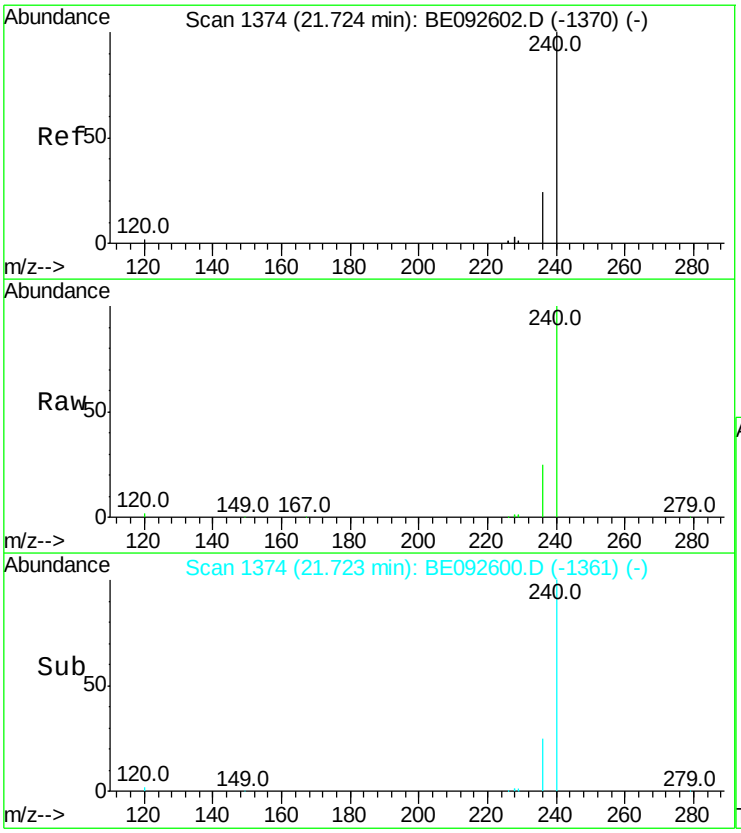
Tgt Ion:202 Resp: 7369

Ion	Ratio	Lower	Upper
202	100		
101	2.7	2.2	3.4
203	18.0	13.7	20.5



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

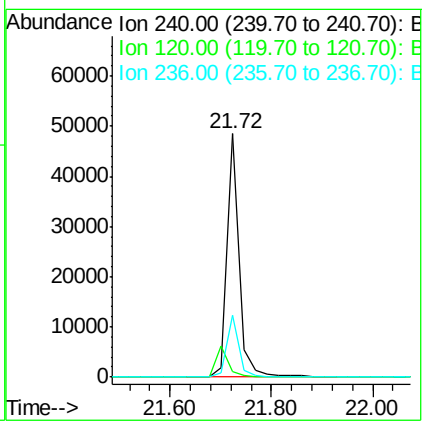
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

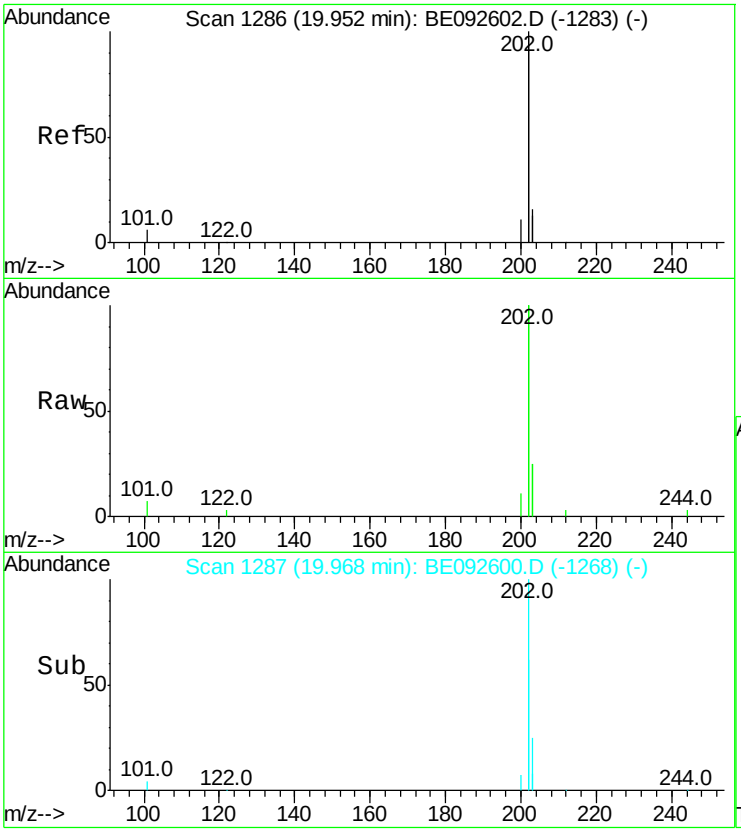


#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.72 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:240 Resp: 79816

Ion	Ratio	Lower	Upper
240	100		
120	2.2	2.6	4.0#
236	25.2	24.6	37.0

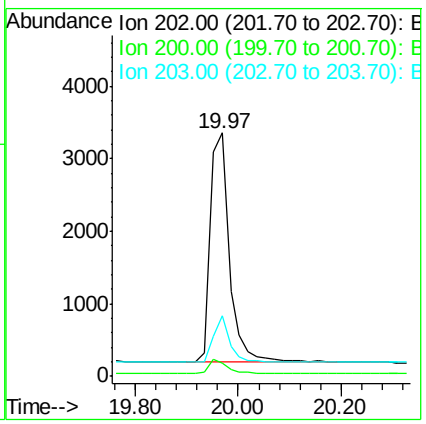




#25
Pyrene
Concen: 0.13 ng
RT: 19.97 min Scan# 1287
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

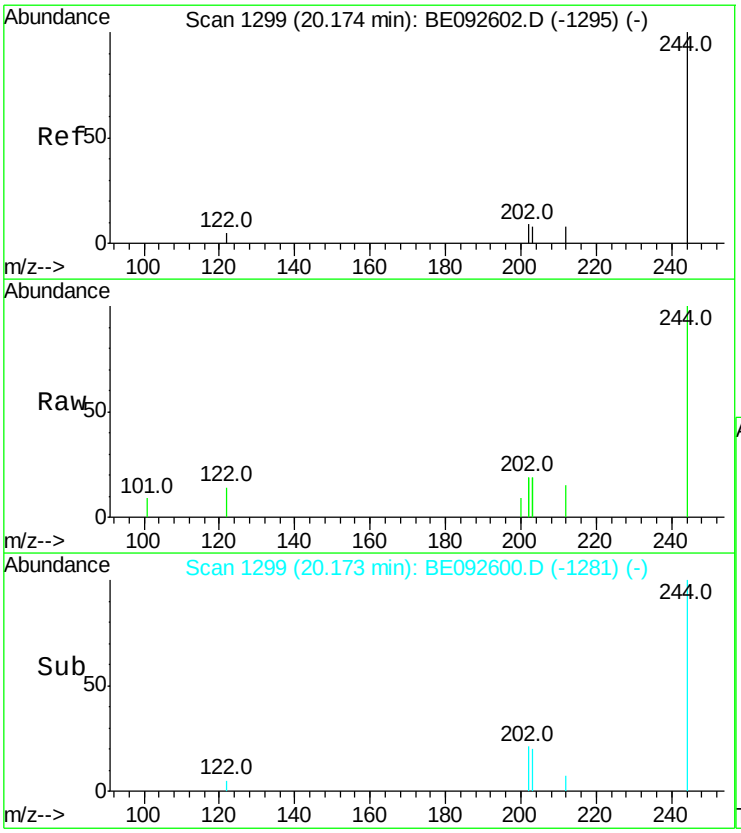
Tgt Ion:202 Resp: 8203

Ion	Ratio	Lower	Upper
202	100		
200	5.2	4.2	6.4
203	17.1	13.9	20.9



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

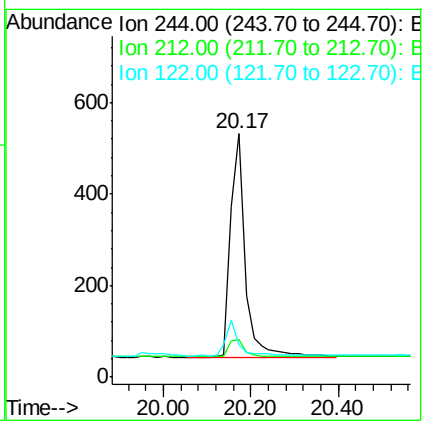
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

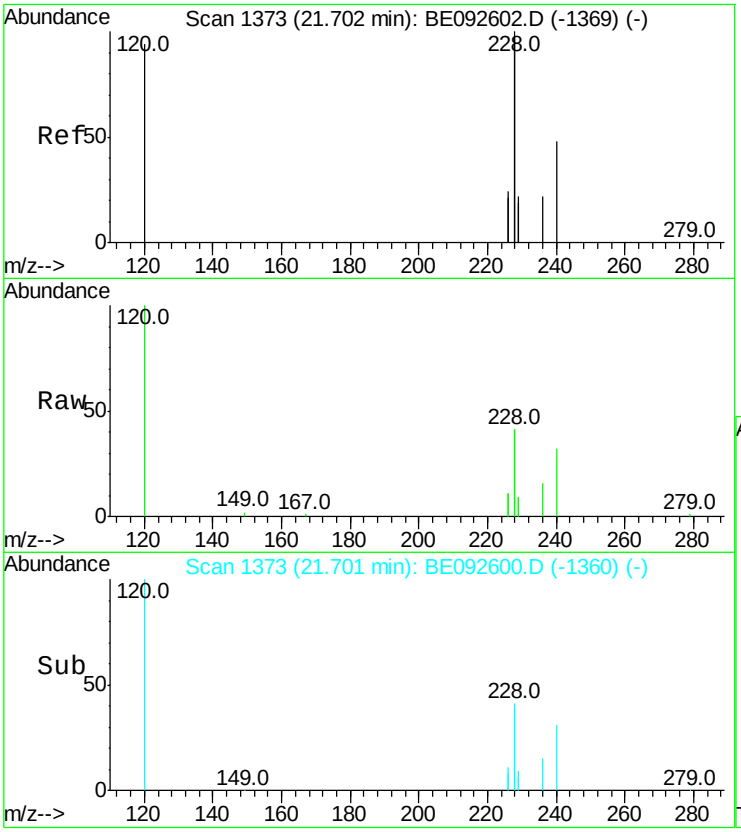


#26
Terphenyl-d14
Concen: 0.12 ng
RT: 20.17 min Scan# 1299
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:244 Resp: 1109

Ion	Ratio	Lower	Upper
244	100		
212	15.2	6.7	10.1#
122	13.5	3.6	5.4#





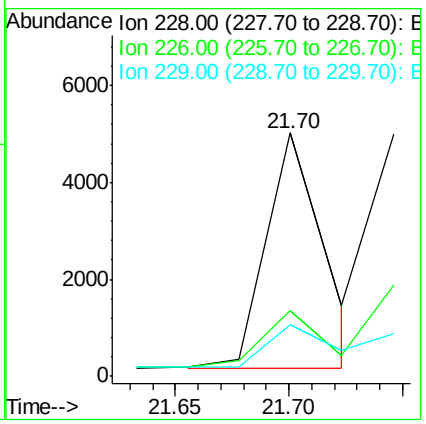
#27
Benzo(a)anthracene
Concen: 0.12 ng m
RT: 21.70 min Scan# 1373
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

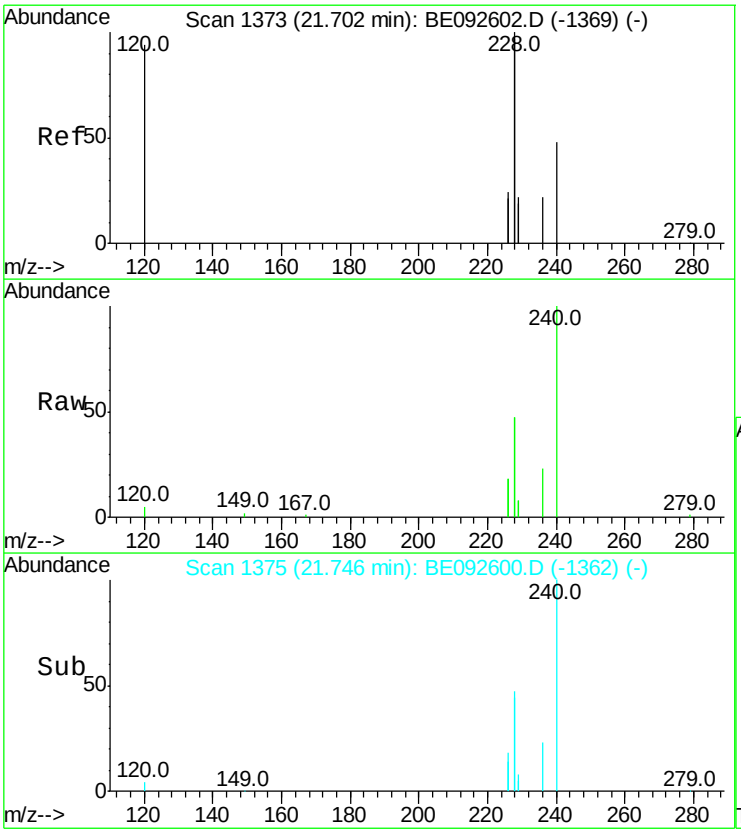
Tgt Ion:228 Resp: 8634

Ion	Ratio	Lower	Upper
228	100		
226	27.0	23.6	35.4
229	21.1	13.3	19.9#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

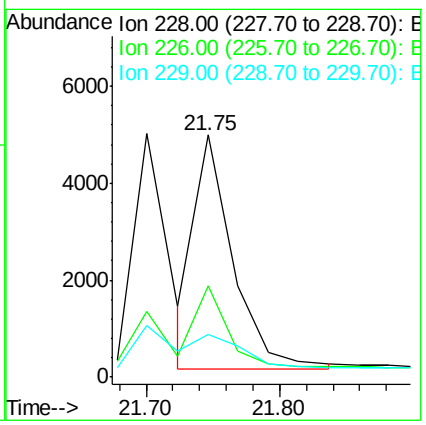


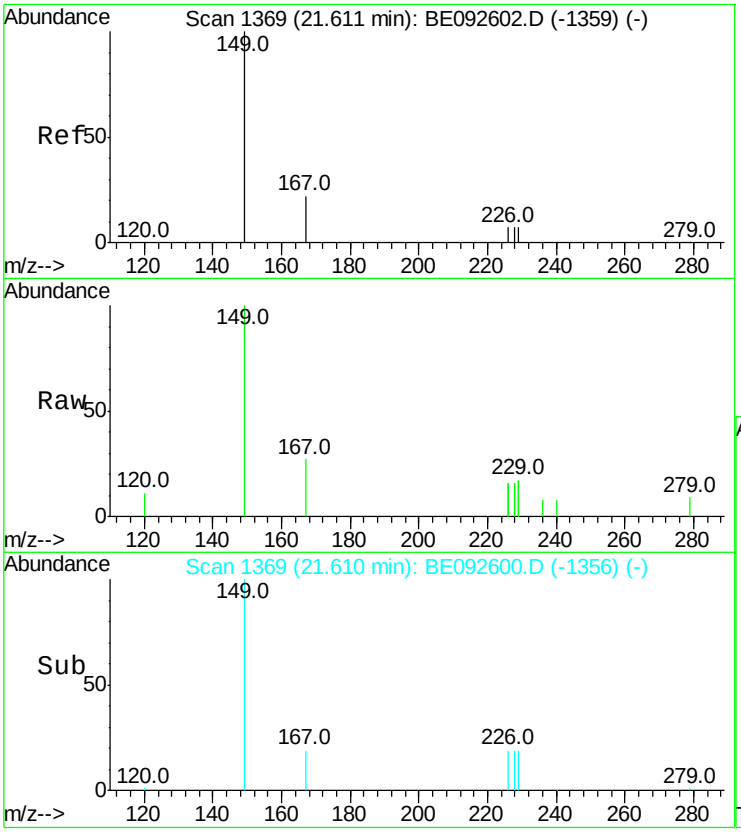


#28
Chrysene
Concen: 0.14 ng m
RT: 21.75 min Scan# 1375
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:228 Resp: 9668

Ion	Ratio	Lower	Upper
228	100		
226	37.7	36.3	54.5
229	17.8	10.6	16.0#





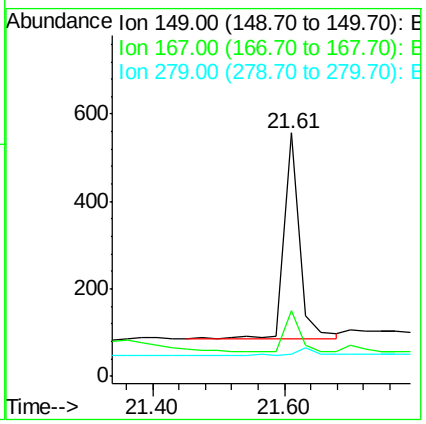
#29
Bis(2-ethylhexyl)phthalate
Concen: 0.16 ng
RT: 21.61 min Scan# 1369
Delta R.T. -0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

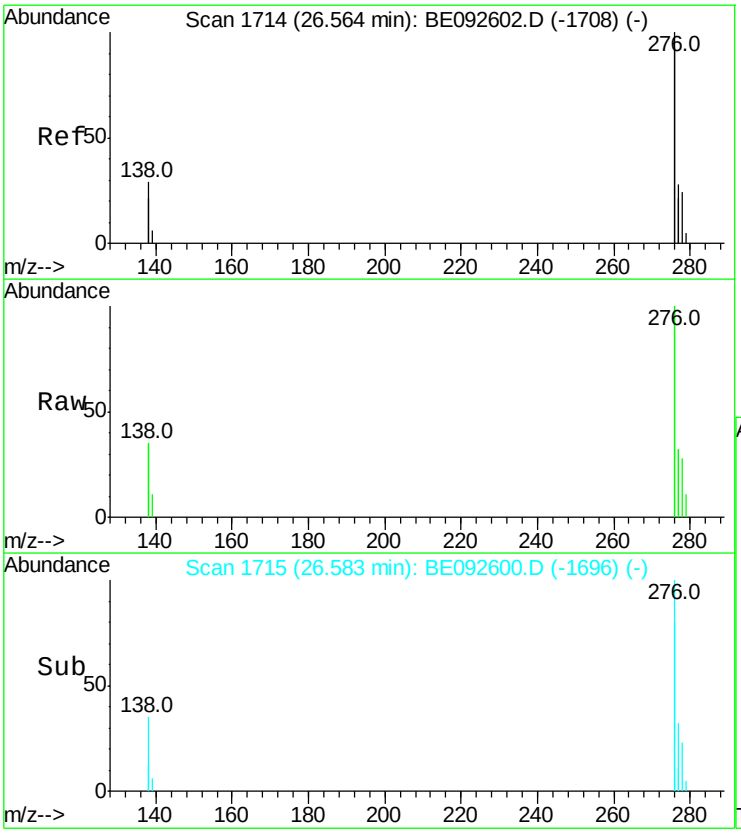
Tgt Ion:149 Resp: 758

Ion	Ratio	Lower	Upper
149	100		
167	19.4	16.0	24.0
279	0.0	16.0	24.0#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

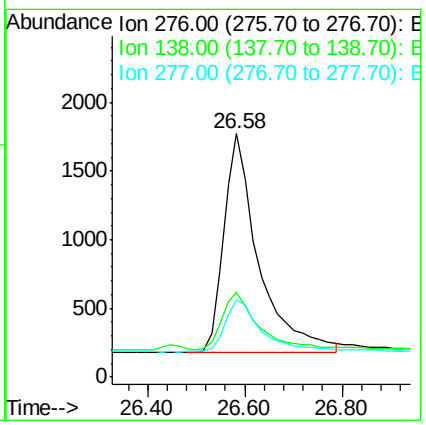


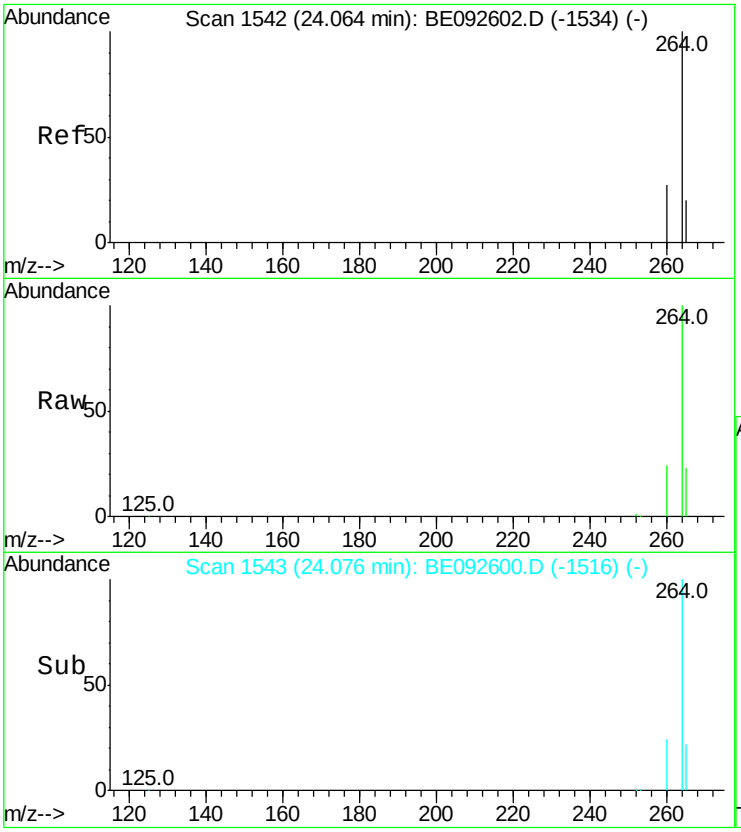


#30
Indeno(1,2,3-cd)pyrene
Concen: 0.10 ng
RT: 26.58 min Scan# 1715
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:276 Resp: 7890

Ion	Ratio	Lower	Upper
276	100		
138	26.8	20.3	30.5
277	25.2	19.7	29.5

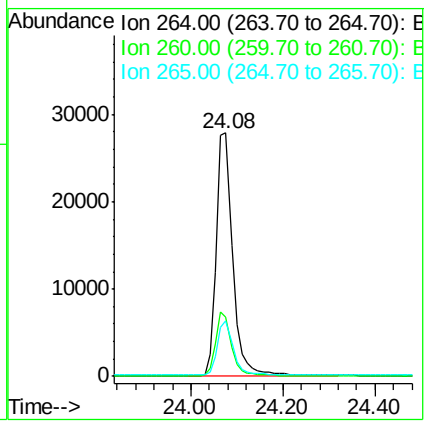




#31
Perylene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1543
Delta R.T. 0.01 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

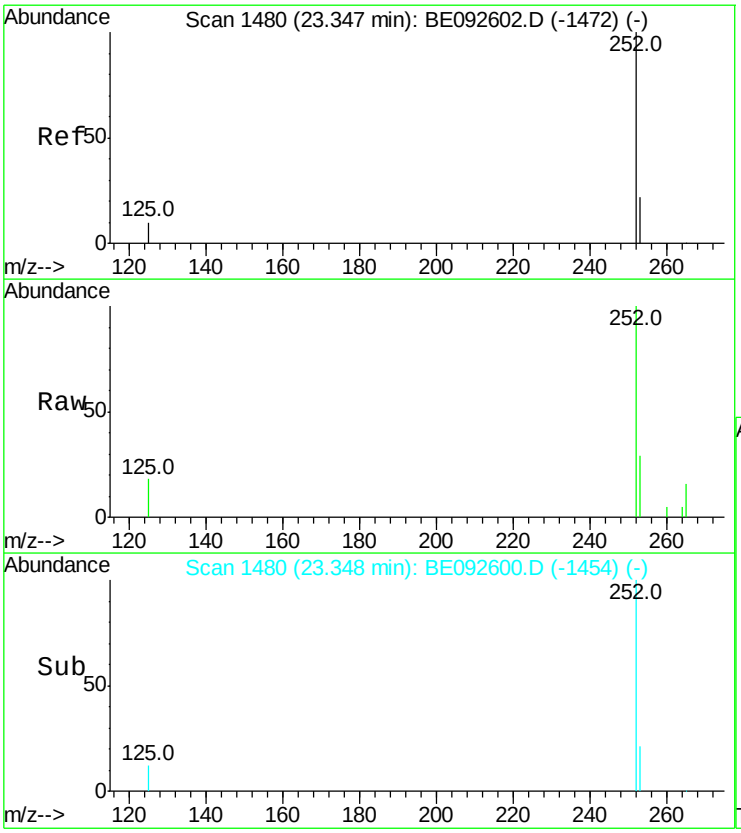
Tgt Ion:264 Resp: 68989

Ion	Ratio	Lower	Upper
264	100		
260	24.1	20.1	30.1
265	23.0	17.9	26.9



Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

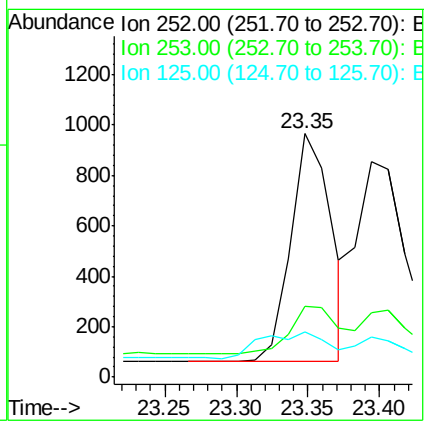
Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

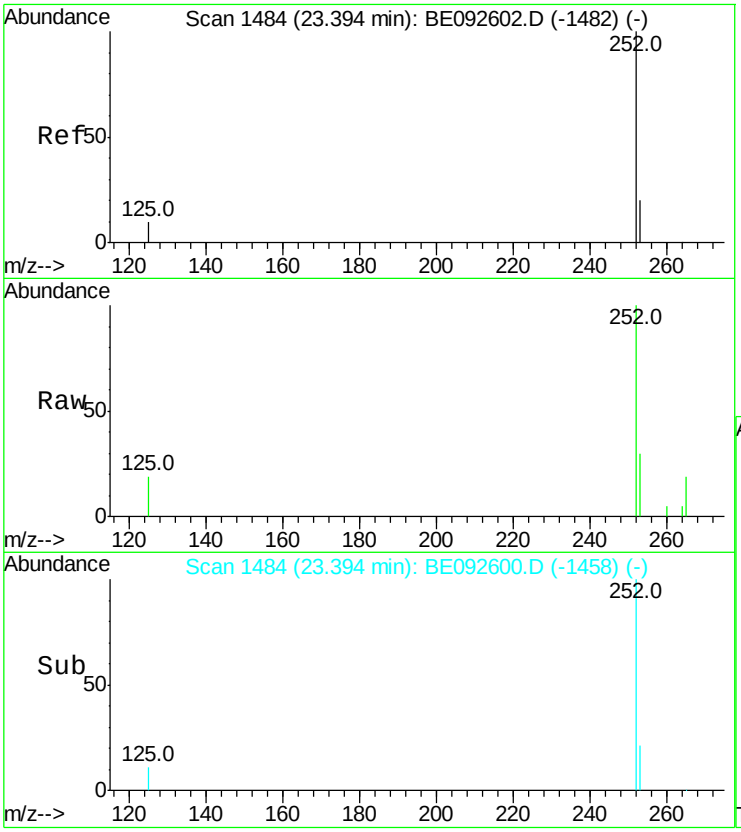


#32
Benzo(b)fluoranthene
Concen: 0.11 ng
RT: 23.35 min Scan# 1480
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:252 Resp: 1768

Ion	Ratio	Lower	Upper
252	100		
253	29.1	18.7	28.1#
125	18.4	10.5	15.7#





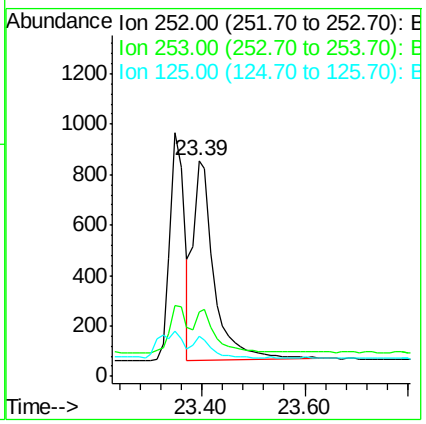
#33
Benzo(k)fluoranthene
Concen: 0.13 ng
RT: 23.39 min Scan# 1484
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

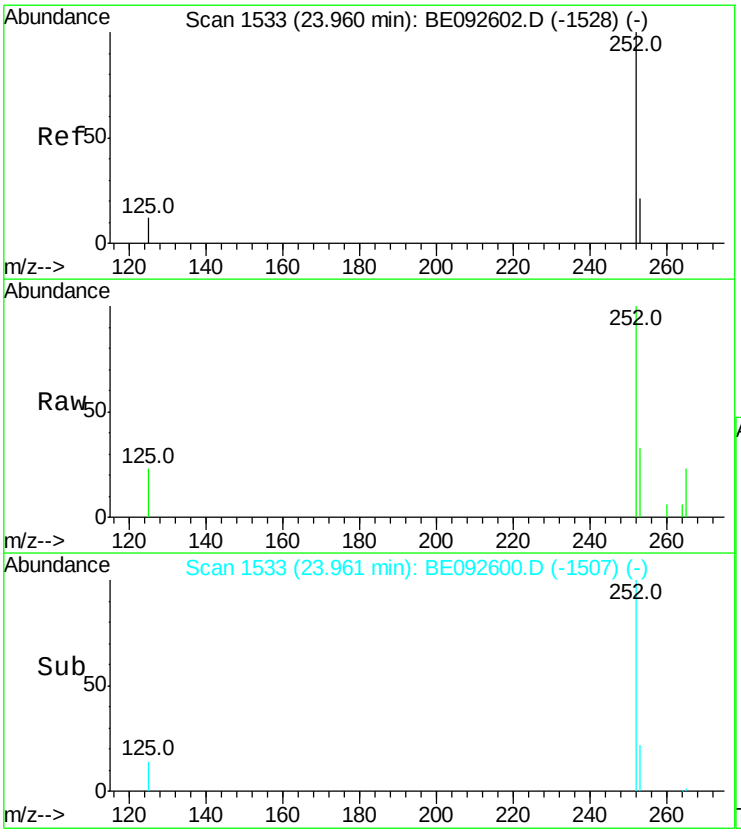
Tgt Ion:252 Resp: 2207

Ion	Ratio	Lower	Upper
252	100		
253	30.0	20.3	30.5
125	18.6	9.6	14.4#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM

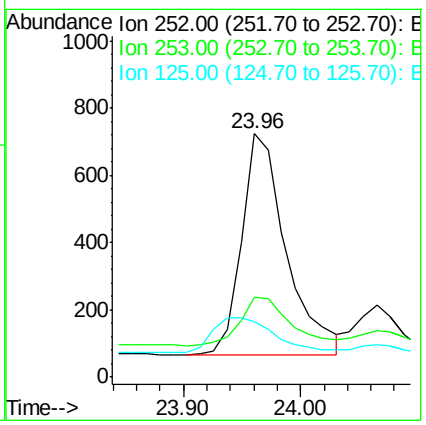


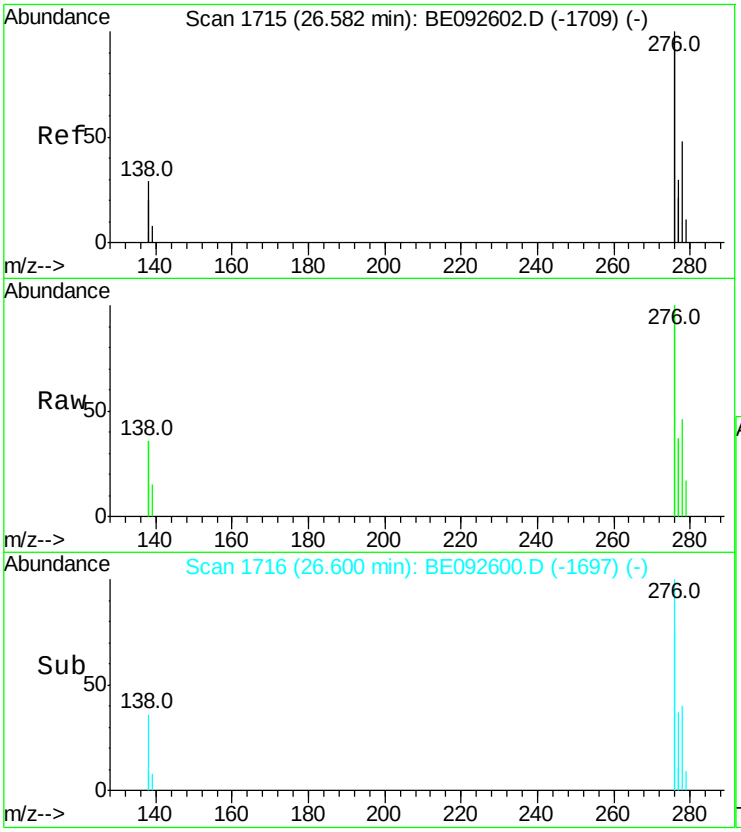


#34
Benzo(a)pyrene
Concen: 0.11 ng
RT: 23.96 min Scan# 1533
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:252 Resp: 1735

Ion	Ratio	Lower	Upper
252	100		
253	32.9	19.0	28.6#
125	22.9	11.8	17.8#





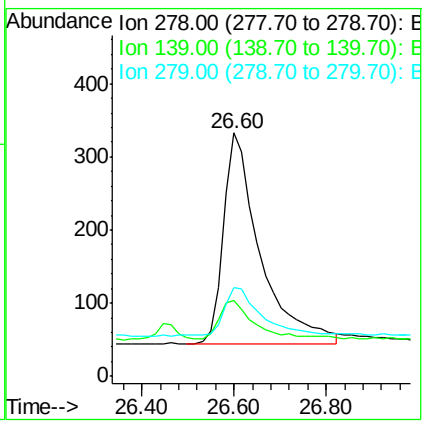
#35
Dibenzo(a,h)anthracene
Concen: 0.10 ng
RT: 26.60 min Scan# 1716
Delta R.T. 0.02 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

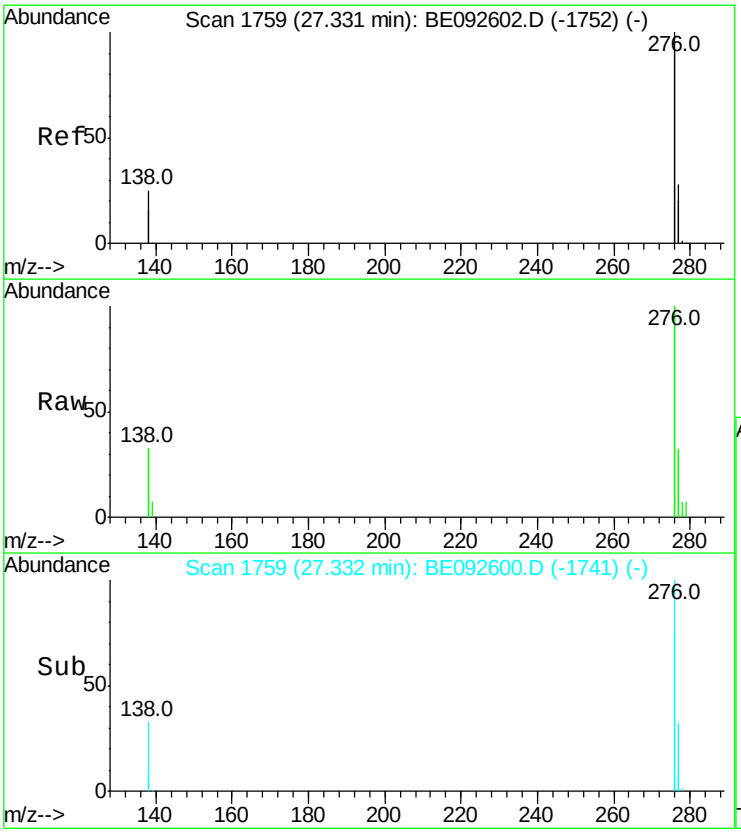
Tgt Ion:278 Resp: 1593

Ion	Ratio	Lower	Upper
278	100		
139	31.2	13.8	20.8#
279	36.6	21.4	32.2#

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED
sohil
12/20/2016 6:33:34 PM





#36
Benzo(g,h,i)perylene
Concen: 0.11 ng
RT: 27.33 min Scan# 1759
Delta R.T. 0.00 min
Lab File: BE092600.D
Acq: 19 Dec 2016 9:58

Tgt Ion:276 Resp: 7199

Ion	Ratio	Lower	Upper
276	100		
277	31.6	19.8	29.8#
138	32.8	19.8	29.6#