

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE061616\
 Data File : BE091937.D
 Acq On : 16 Jun 2016 13:48
 Operator : UM/SJ
 Sample : H3359-01MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

umangi
 6/16/2016 6:51:16 PM

Quant Time: Jun 16 18:25:28 2016

Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061416.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 15 12:00:38 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	30815	5.00	ng	0.00
8) Naphthalene-d8	10.99	136	139844	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	114433	5.00	ng	0.00
24) Phenanthrene-d10	17.59	188	226361	5.00	ng	-0.01
31) Chrysene-d12	21.76	240	372634	5.00	ng	0.00
40) Perylene-d12	24.16	264	271205	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.72	112	42409	7.04	ng	0.00
5) Phenol-d6	7.37	99	62742	6.37	ng	0.02
9) Nitrobenzene-d5	9.37	82	36657	3.80	ng	0.00
16) 2,4,6-Tribromophenol	16.35	330	21738	7.31	ng	0.00
17) 2-Fluorobiphenyl	13.48	172	90860	3.13	ng	0.00
34) Terphenyl-d14	20.22	244	146264	3.21	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.47	88	11083	2.55	ng	98
3) n-Nitrosodimethylamine	3.82	42	17345	3.51	ng	96
6) bis(2-Chloroethyl)ether	7.61	93	31599	3.58	ng	98
7) n-Nitroso-di-n-propylamine	9.00	70	27928	3.34	ng	# 98
10) Nitrobenzene	9.40	77	38237	3.50	ng	# 99
11) bis(2-Chloroethoxy)methane	10.42	93	42468	3.47	ng	# 19
12) Naphthalene	11.04	128	105561	3.46	ng	# 94
13) Hexachlorobutadiene	11.34	225	16660	3.37	ng	99
14) 2-Methylnaphthalene	12.68	142	78424	3.79	ng	97
18) Acenaphthylene	14.56	152	417476	3.59	ng	# 61
19) 2,6-Dinitrotoluene	14.44	165	84491	3.40	ng	# 37
20) Acenaphthene	14.92	154	106123	3.32	ng	# 1
21) 2,4-Dinitrotoluene	15.22	165	97357	4.27	ng	# 72
22) Fluorene	15.90	166	110199	3.46	ng	99
23) 4-Chlorophenyl-phenylether	15.90	204	51466	3.28	ng	97
25) 4-Bromophenyl-phenylether	16.78	248	32070	3.66	ng	99
26) Hexachlorobenzene	16.90	284	31448	3.50	ng	98
27) Pentachlorophenol	17.25	266	31799	6.62	ng	# 88
28) Phenanthrene	17.64	178	197157	3.48	ng	99
29) Anthracene	17.73	178	189513	3.78	ng	100
30) Fluoranthene	19.65	202	881149	3.64	ng	# 87
32) Benzidine	19.86	184	944	0.16	ng	# 8
33) Pyrene	19.99	202	911158	3.59	ng	# 64
35) Benzo(a)anthracene	21.73	228	272264	4.65	ng	# 90
36) 3,3'-Dichlorobenzidine	21.67	252	41646	4.39	ng	# 64
37) Chrysene	21.78	228	315677m	3.69	ng	
38) Bis(2-ethylhexyl)phthalate	21.64	149	308613	5.06	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.68	276	1071832	3.66	ng	98
41) Benzo(b)fluoranthene	23.42	252	253475	3.64	ng	98
42) Benzo(k)fluoranthene	23.47	252	254002	3.99	ng	96
43) Benzo(a)pyrene	24.06	252	238808	3.93	ng	# 97
44) Dibenzo(a,h)anthracene	26.70	278	222941	3.77	ng	98
45) Benzo(g,h,i)perylene	27.45	276	910830	3.73	ng	98

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE061616\
Data File : BE091937.D
Acq On : 16 Jun 2016 13:48
Operator : UM/SJ
Sample : H3359-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

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

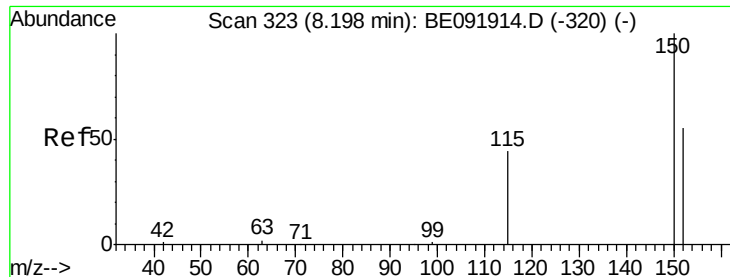
Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM

Quant Time: Jun 16 18:25:28 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 15 12:00:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

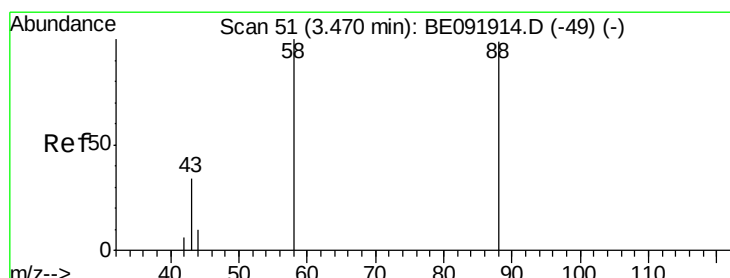
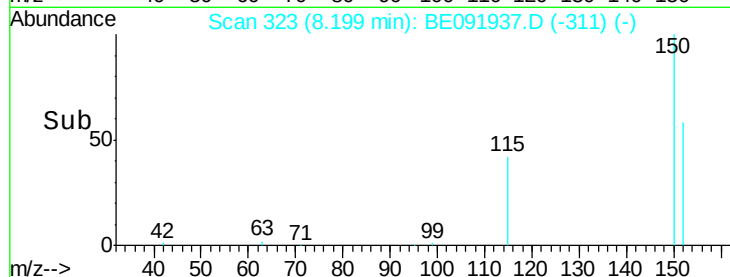
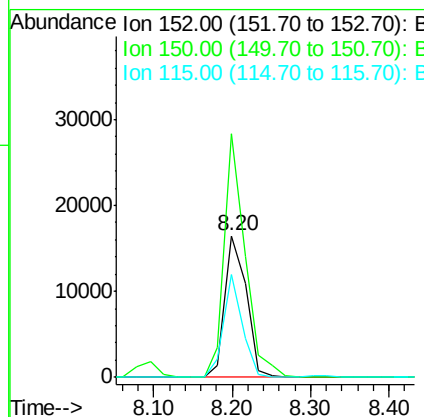
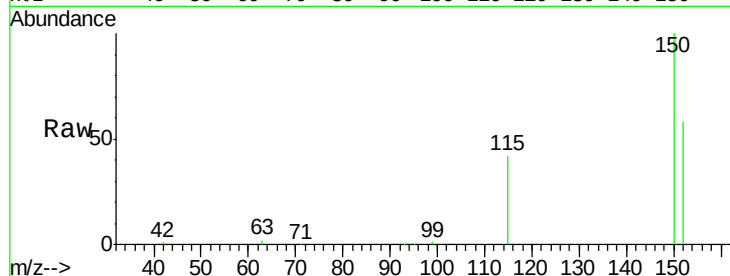
ClientSampleId :

OM-SPN-001-160531MSD

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM

Tgt Ion	Ratio	Lower	Upper
152	100		
150	172.4	123.9	185.9
115	73.0	48.3	72.5



#2

1,4-Dioxane

Concen: 2.55 ng

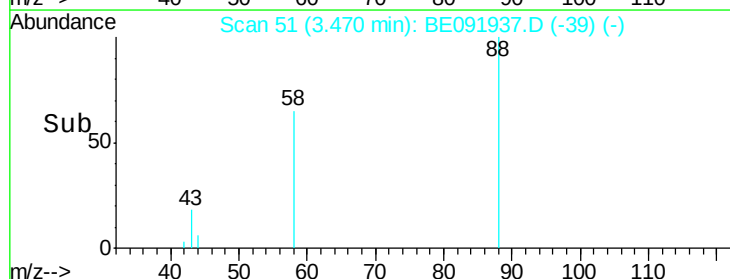
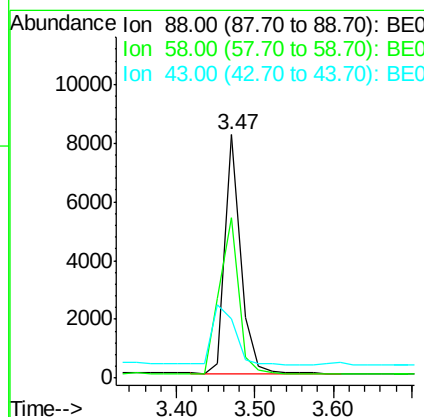
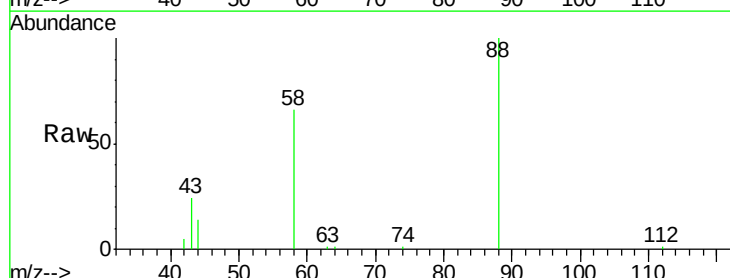
RT: 3.47 min Scan# 51

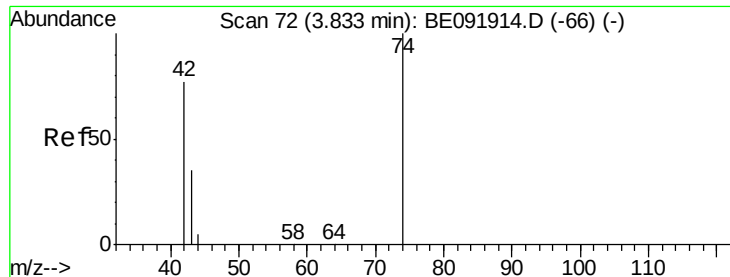
Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
88	100		
58	81.1	63.0	94.4
43	36.5	29.1	43.7





#3

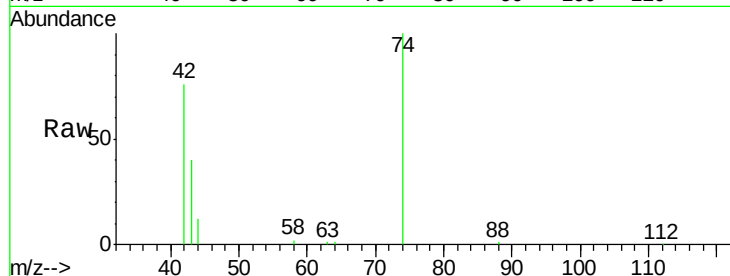
n-Nitrosodimethylamine
Concen: 3.51 ng
RT: 3.82 min Scan# 71
Delta R.T. 0.02 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

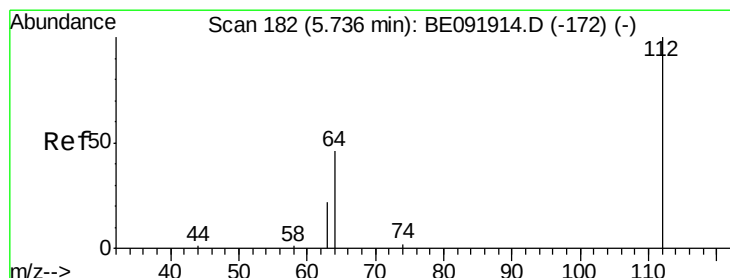
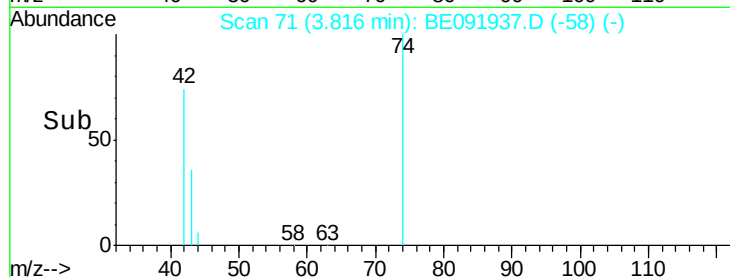
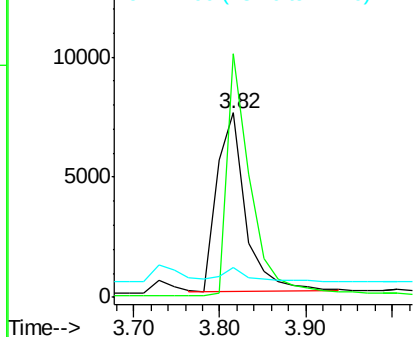
Tgt Ion	Ratio	Lower	Upper
42	100		
74	111.6	93.4	140.0
44	6.9	5.0	7.6

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



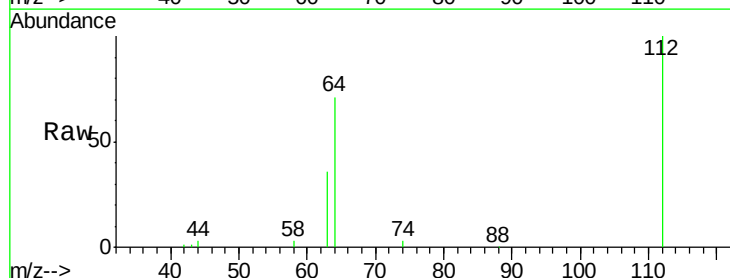
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



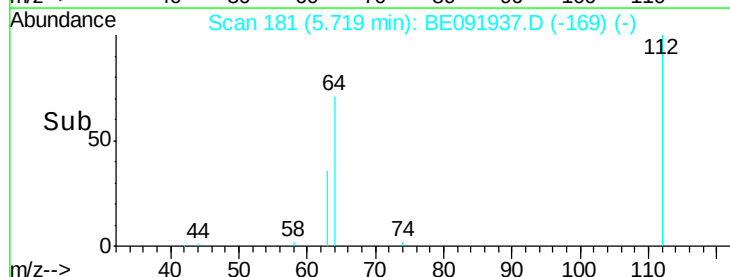
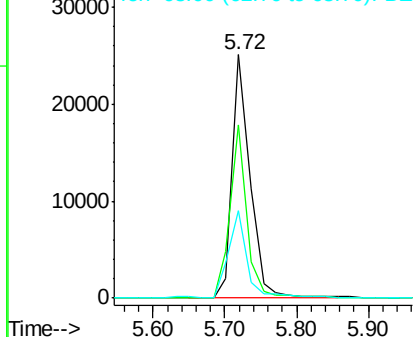
#4

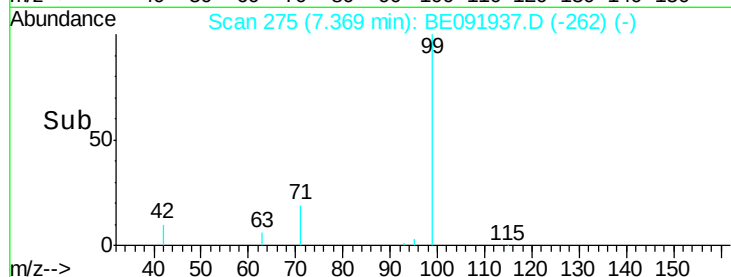
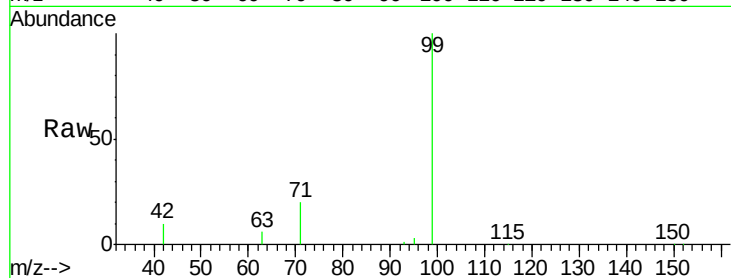
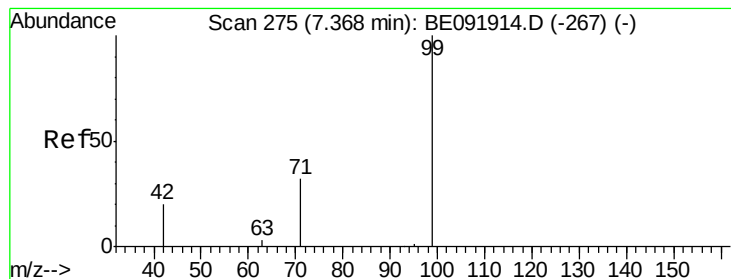
2-Fluorophenol
Concen: 7.04 ng
RT: 5.72 min Scan# 181
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.7	80.5
63	37.0	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: 6.37 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion:	99	Resp:	62742
Ion Ratio	Lower	Upper	
99	100		
42	25.9	19.6	29.4
71	35.8	28.1	42.1

Instrument :

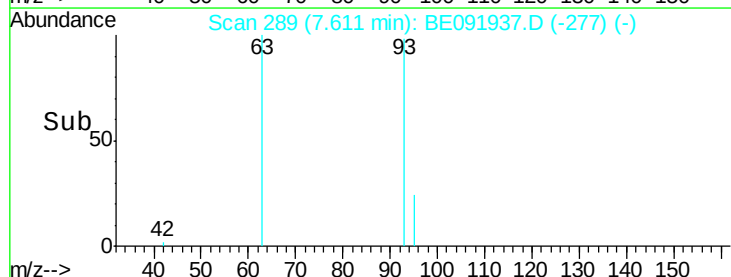
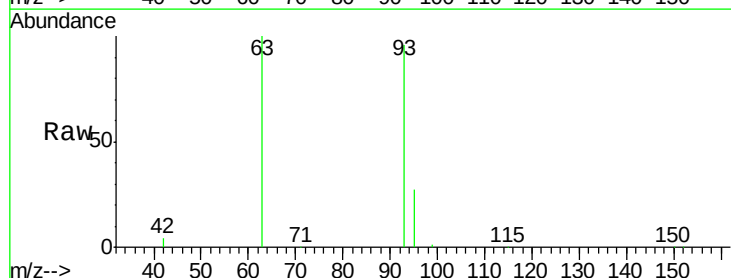
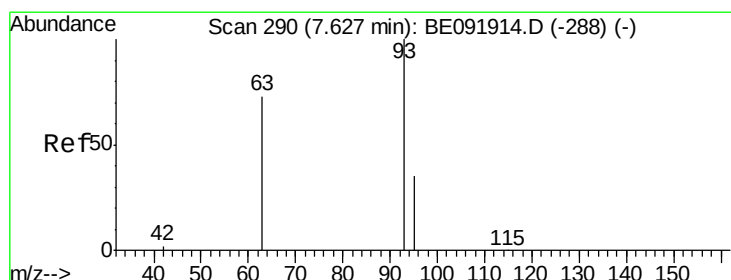
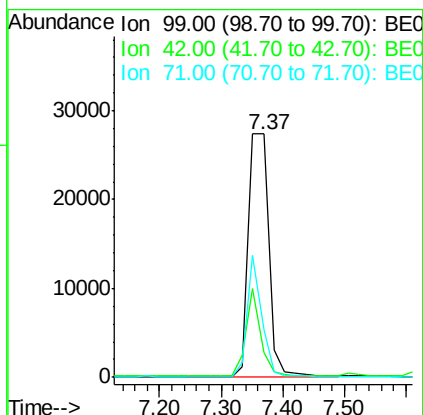
BNA_E

ClientSampleId :

OM-SPN-001-160531MSD

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#6

bis(2-Chloroethyl)ether

Concen: 3.58 ng

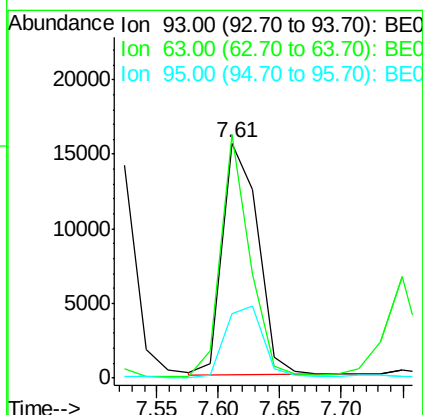
RT: 7.61 min Scan# 289

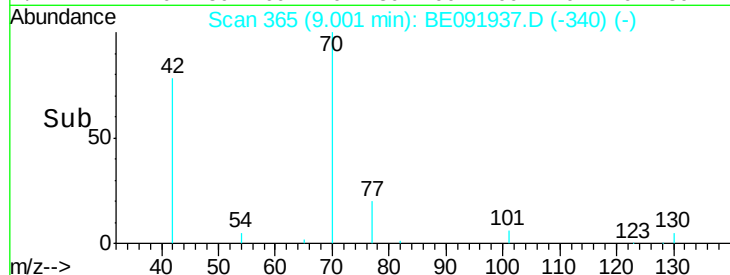
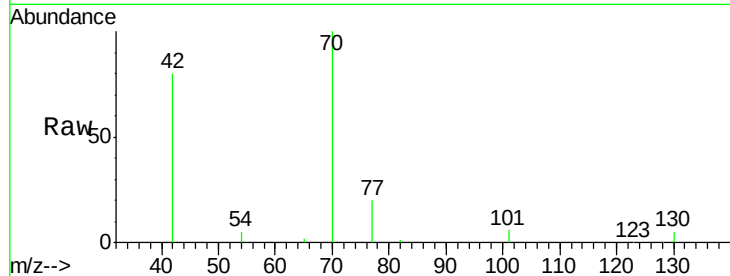
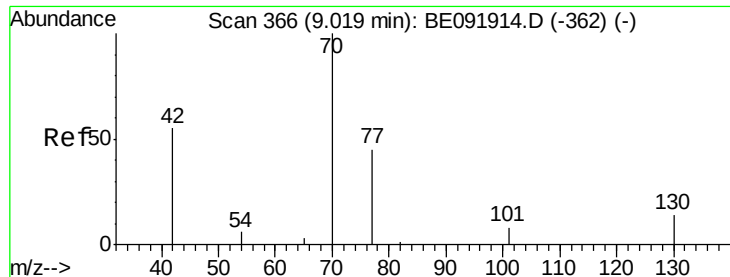
Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion:	93	Resp:	31599
Ion Ratio	Lower	Upper	
93	100		
63	84.6	66.2	99.4
95	32.6	25.5	38.3





#7

n-Nitroso-di-n-propylamine

Concen: 3.34 ng

RT: 9.00 min Scan# 365

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

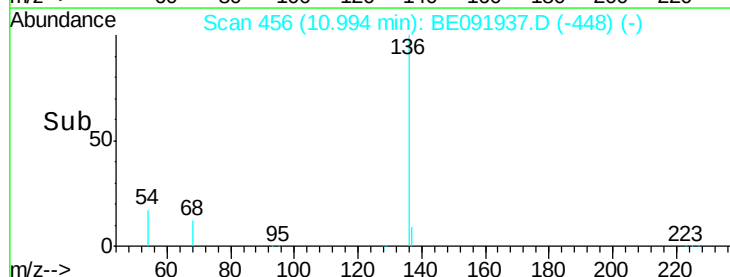
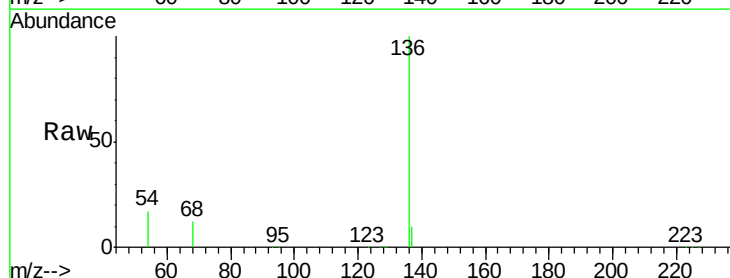
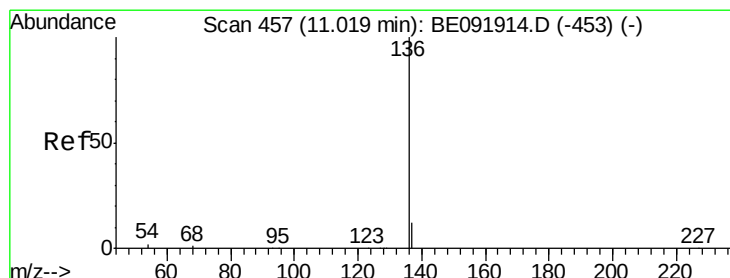
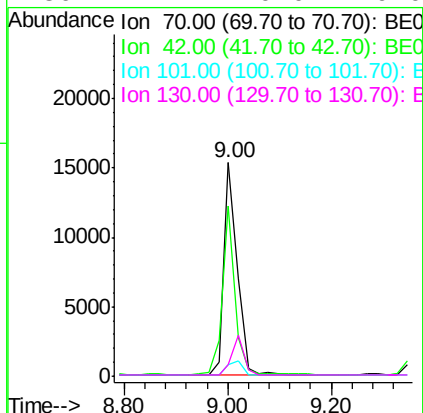
ClientSampleId :

OM-SPN-001-160531MSD

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM

Tgt Ion	Ion	Ratio	Lower	Upper
70	100			
42	74.6	58.4	87.6	
101	8.4	6.4	9.6	
130	17.2	0.0	0.0#	



#8

Naphthalene-d8

Concen: 5.00 ng

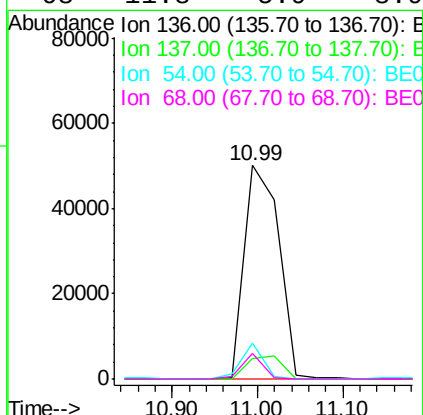
RT: 10.99 min Scan# 456

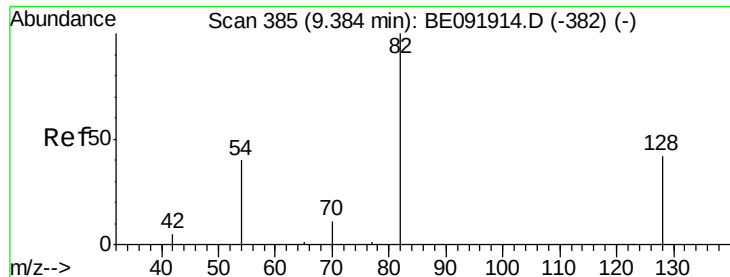
Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	9.6	8.3	12.5	
54	16.9	8.2	12.4#	
68	11.8	5.9	8.9#	





#9

Nitrobenzene-d5

Concen: 3.80 ng

RT: 9.37 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MSD

Tgt Ion: 82 Resp: 36657
Ion Ratio Lower Upper

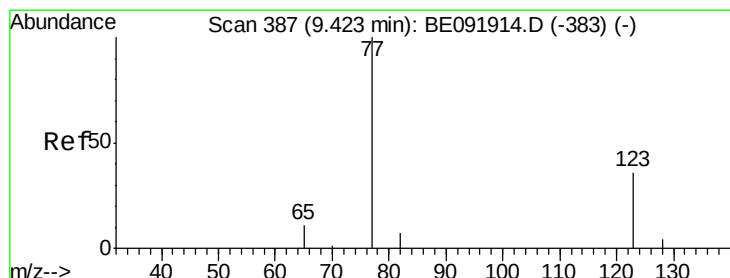
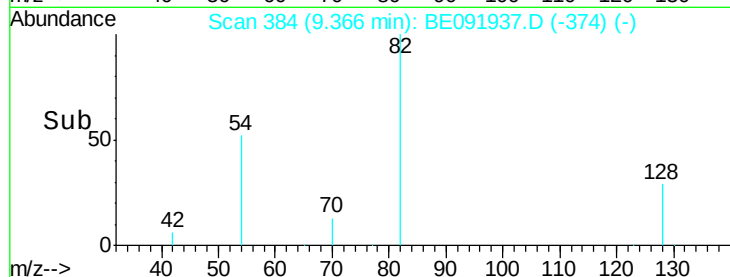
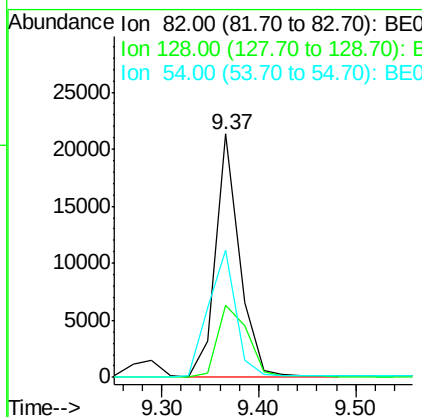
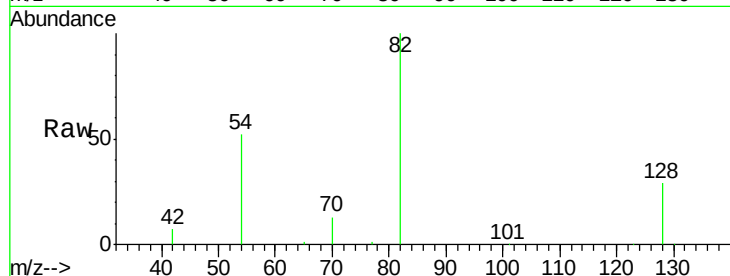
82 100

128 29.4 39.5 59.3#

54 52.1 30.3 45.5#

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#10

Nitrobenzene

Concen: 3.50 ng

RT: 9.40 min Scan# 386

Delta R.T. 0.00 min

Lab File: BE091937.D

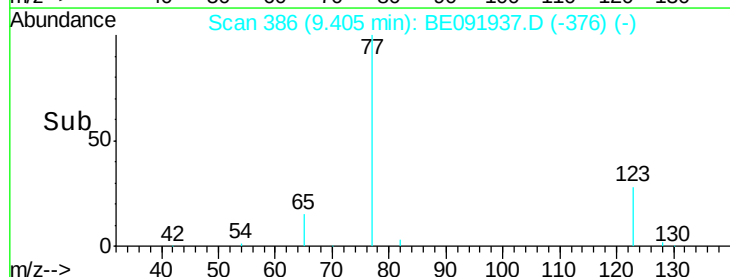
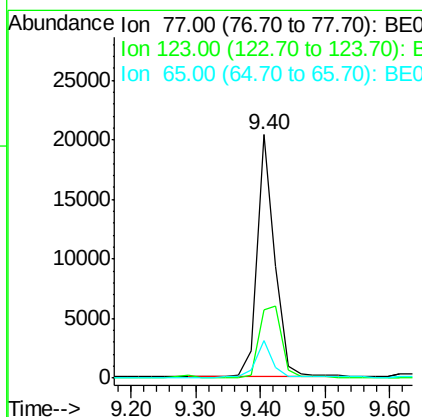
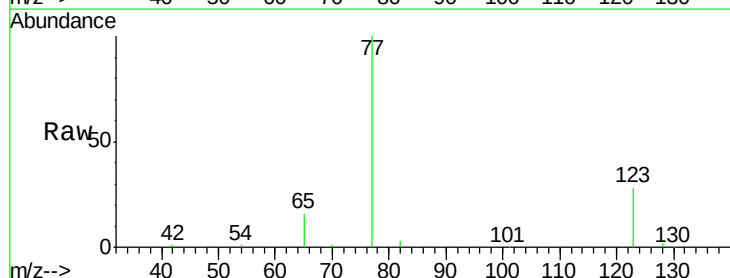
Acq: 16 Jun 2016 13:48

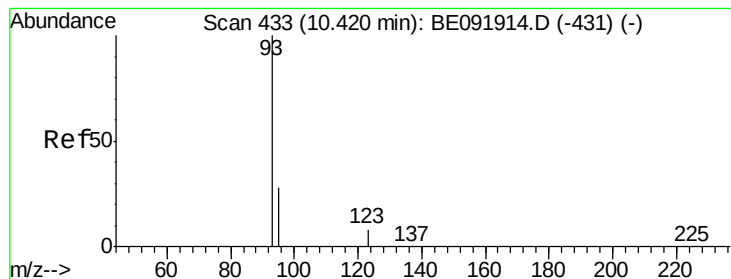
Tgt Ion: 77 Resp: 38237
Ion Ratio Lower Upper

77 100

123 38.6 0.0 0.0#

65 14.3 11.1 16.7





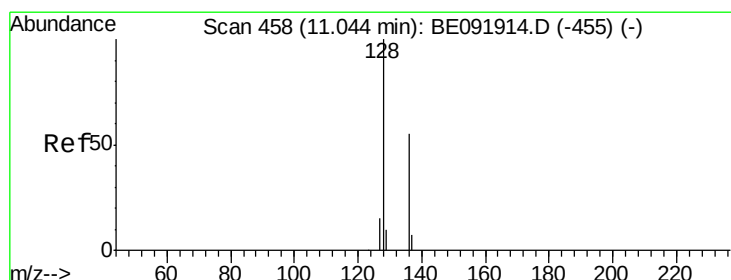
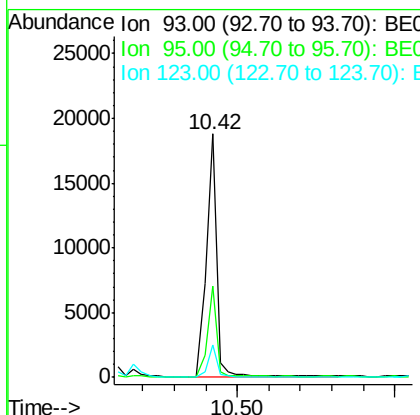
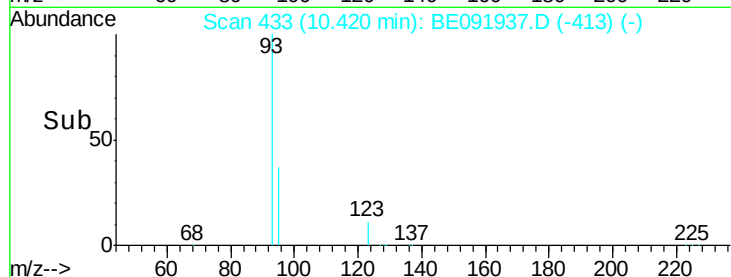
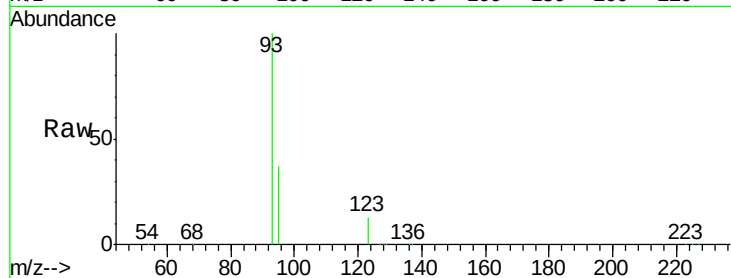
#11
bis(2-Chloroethoxy)methane
Concen: 3.47 ng
RT: 10.42 min Scan# 433
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion: 93 Resp: 42468
Ion Ratio Lower Upper
93 100
95 33.1 57.6 86.4#
123 10.6 100.2 150.4#

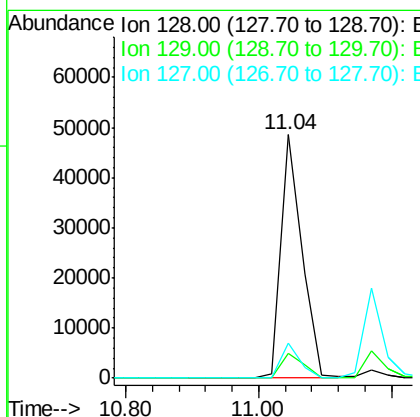
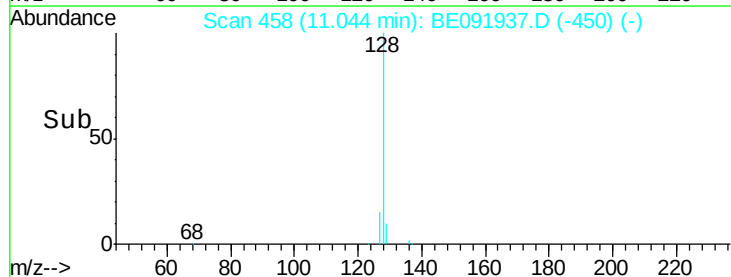
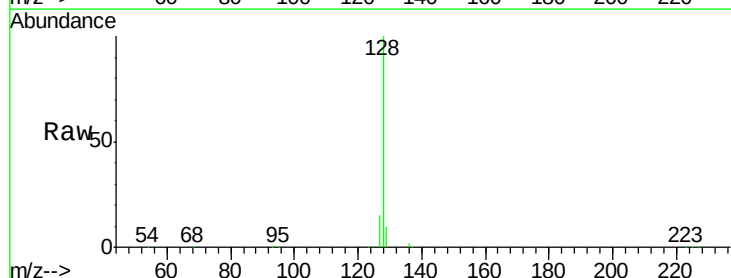
Manual Integrations
APPROVED

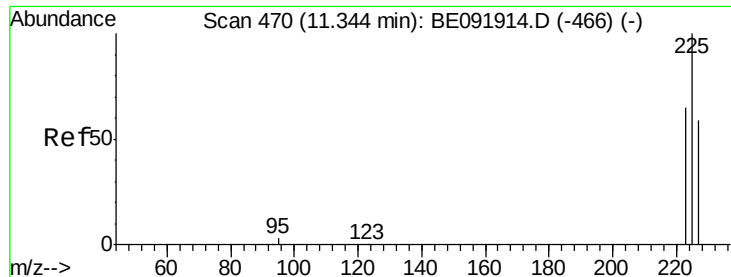
umangi
6/16/2016 6:51:16 PM



#12
Naphthalene
Concen: 3.46 ng
RT: 11.04 min Scan# 458
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion: 128 Resp: 105561
Ion Ratio Lower Upper
128 100
129 10.1 10.4 15.6#
127 14.6 10.2 15.2





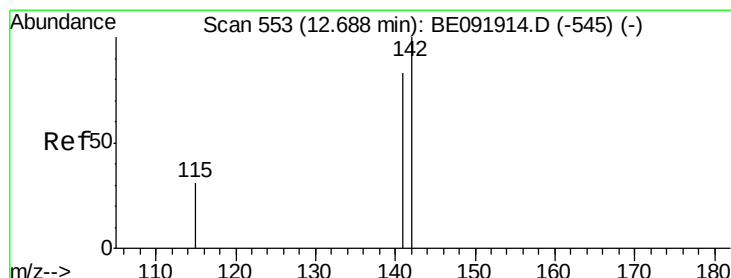
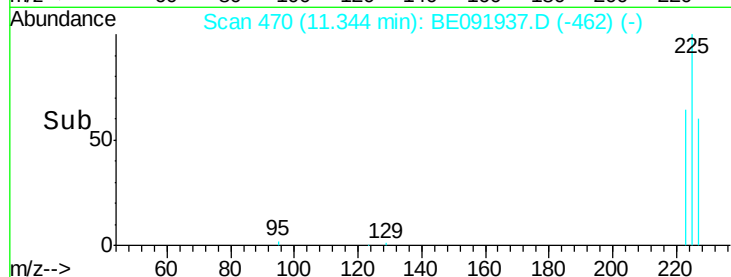
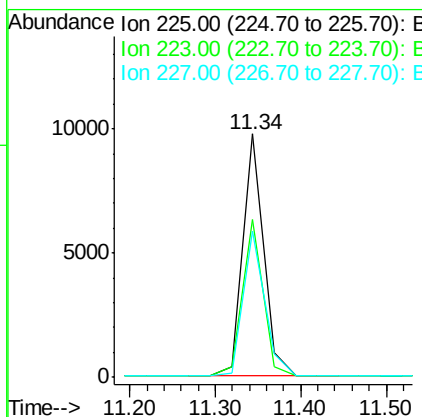
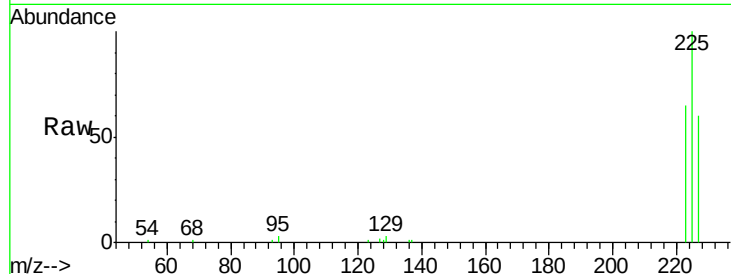
#13
Hexachlorobutadiene
Concen: 3.37 ng
RT: 11.34 min Scan# 470
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	16660		
223	63.7	49.8	74.8	
227	62.4	50.6	75.8	

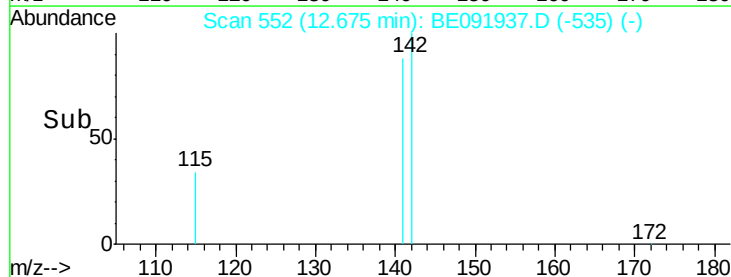
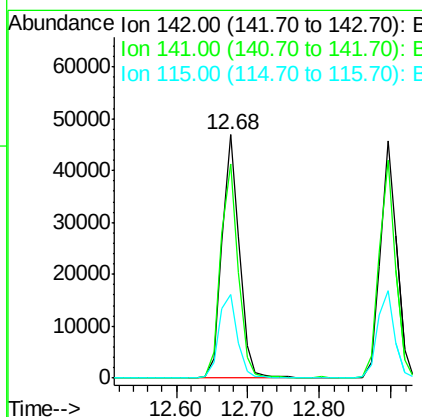
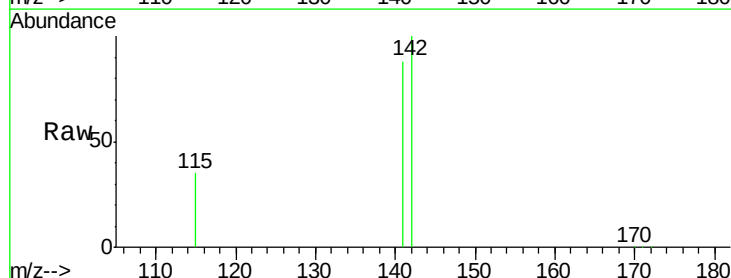
Manual Integrations
APPROVED

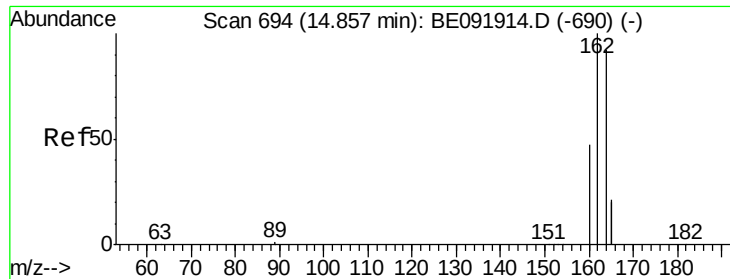
umangi
6/16/2016 6:51:16 PM



#14
2-Methylnaphthalene
Concen: 3.79 ng
RT: 12.68 min Scan# 552
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	78424		
141	88.0	71.9	107.9	
115	34.5	29.9	44.9	





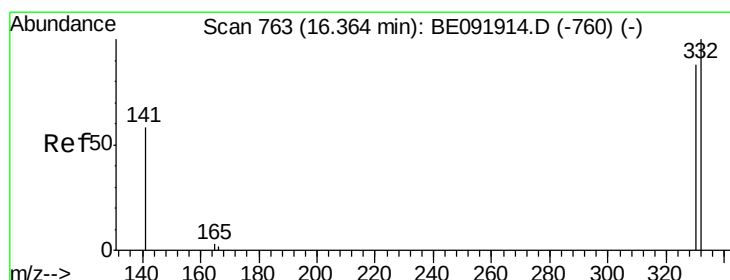
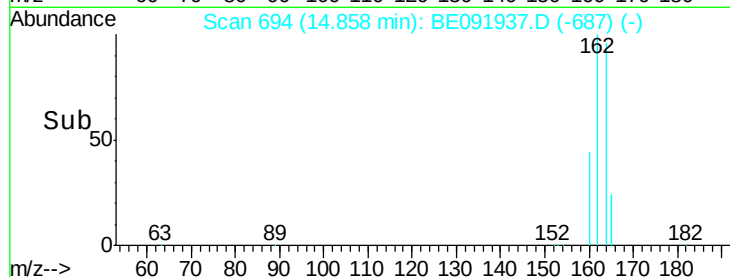
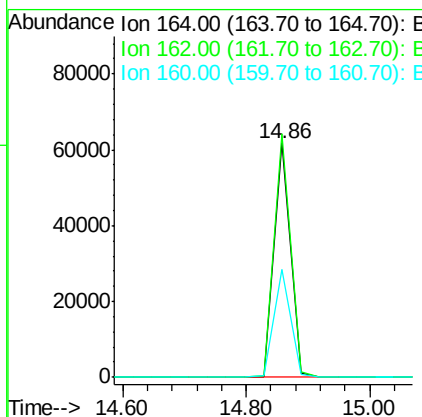
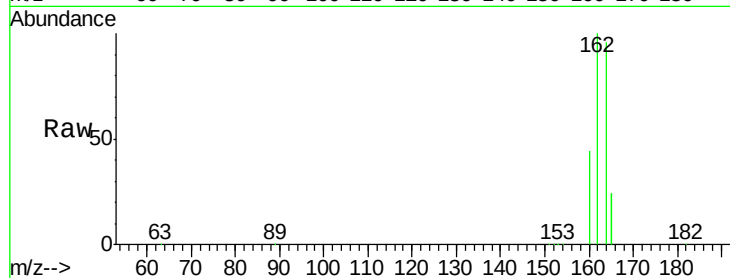
#15
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.86 min Scan# 694
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	71.8	107.8
160	46.2	28.0	42.0

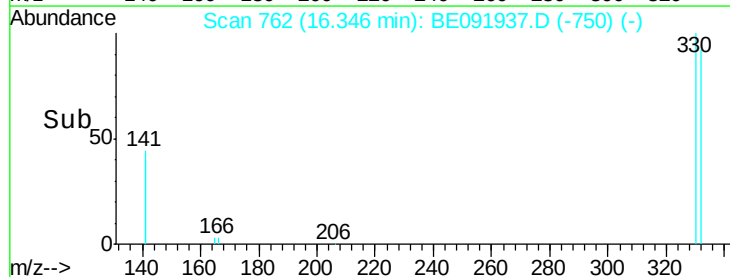
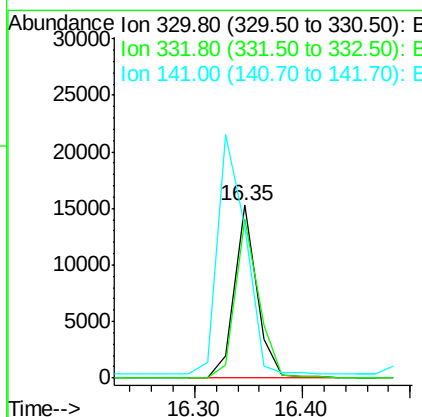
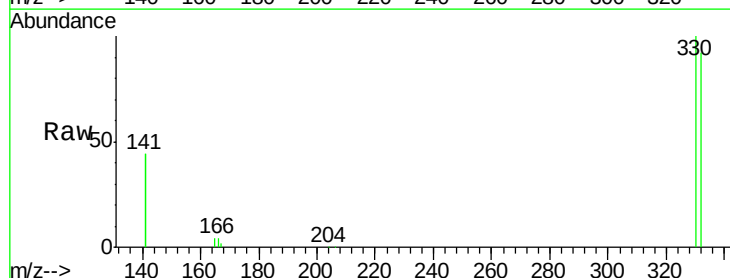
Manual Integrations
APPROVED

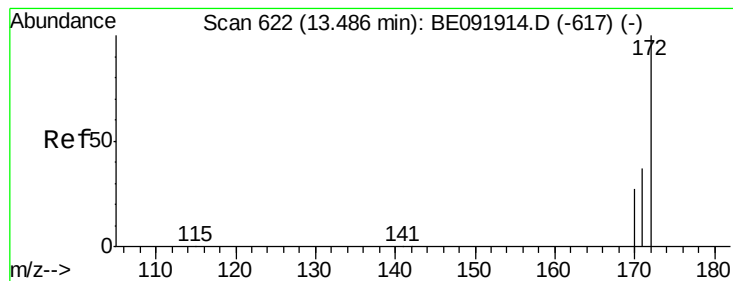
umangi
6/16/2016 6:51:16 PM



#16
2,4,6-Tribromophenol
Concen: 7.31 ng
RT: 16.35 min Scan# 762
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.6
141	174.5	138.4	207.6





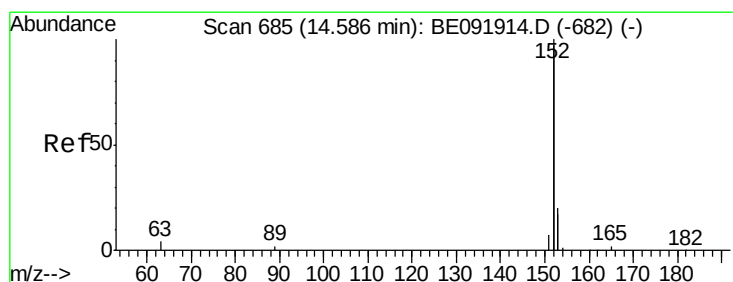
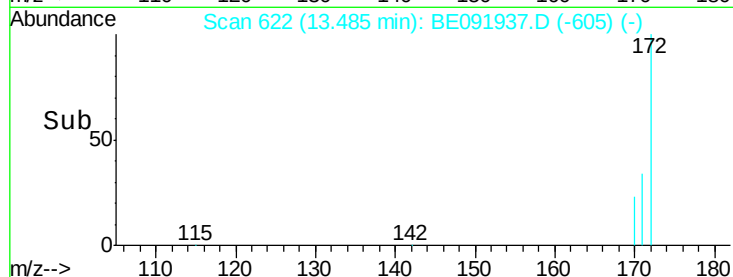
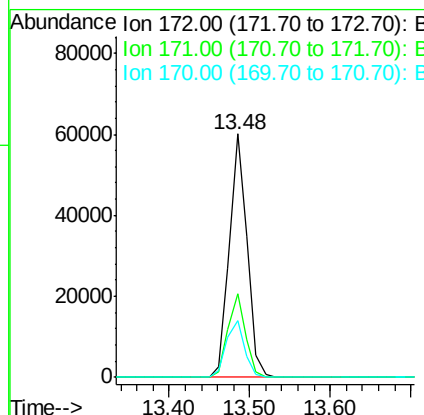
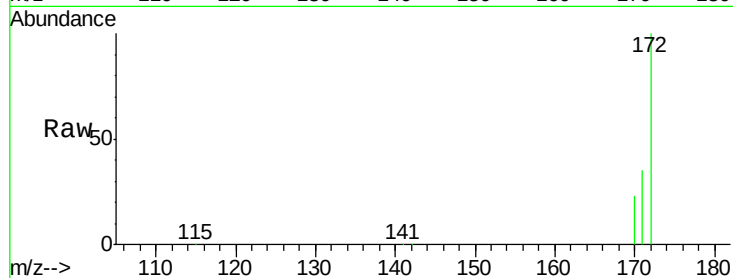
#17
2-Fluorobiphenyl
Concen: 3.13 ng
RT: 13.48 min Scan# 622
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	34.6	24.3	36.5
170	23.1	14.9	22.3

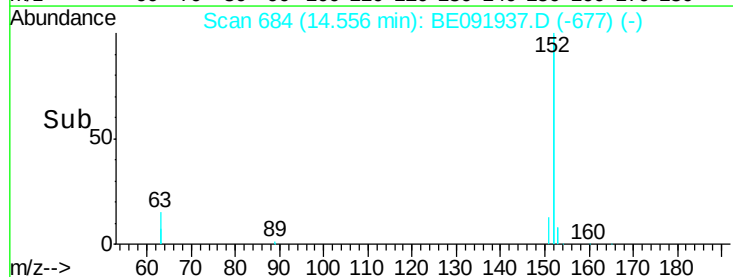
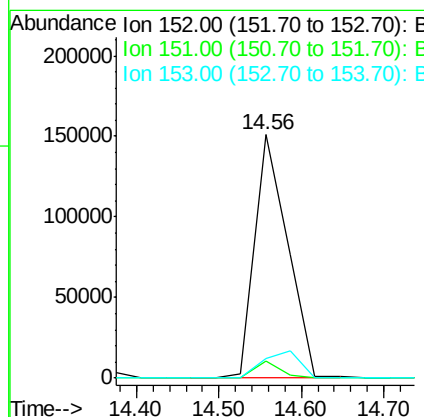
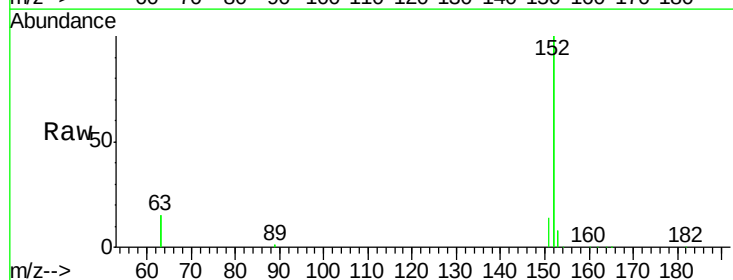
Manual Integrations
APPROVED

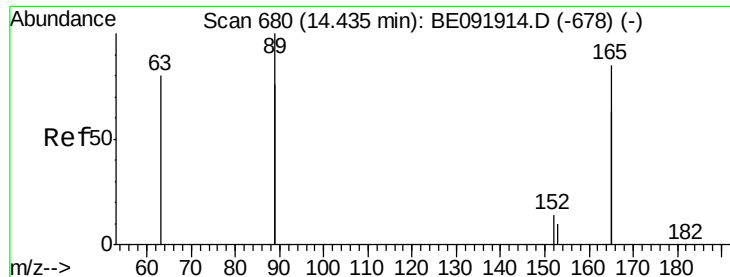
umangi
6/16/2016 6:51:16 PM



#18
Acenaphthylene
Concen: 3.59 ng
RT: 14.56 min Scan# 684
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

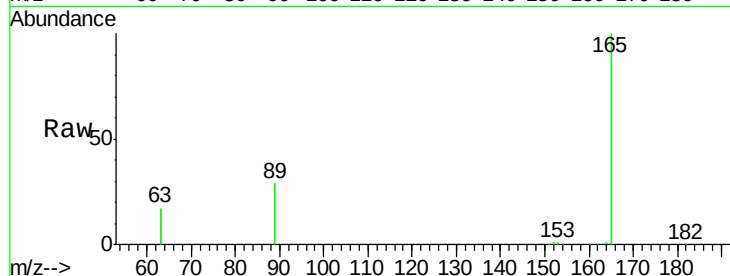
Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	5.4	19.4	29.2
153	0.0	14.4	21.6





#19
 2,6-Dinitrotoluene
 Concen: 3.40 ng
 RT: 14.44 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

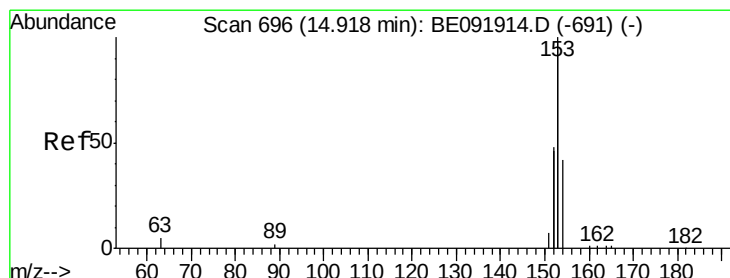
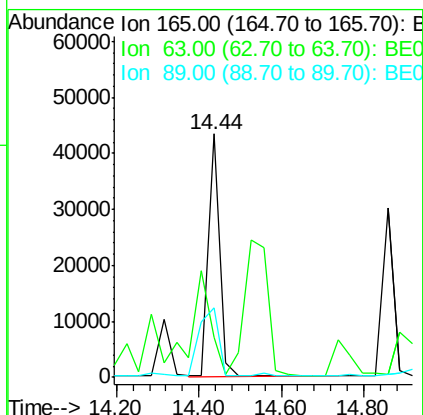
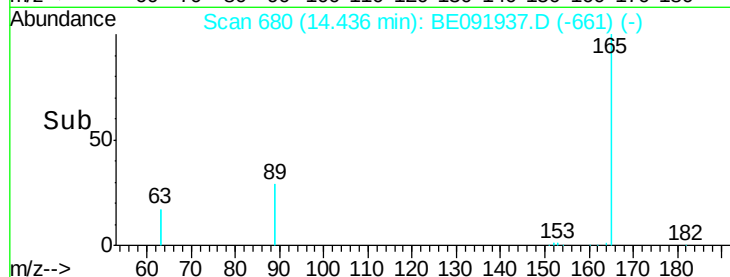
Instrument :
 BNA_E
 ClientSampleId :
 OM-SPN-001-160531MSD



Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	65.9	98.9#
89	48.3	59.1	88.7#

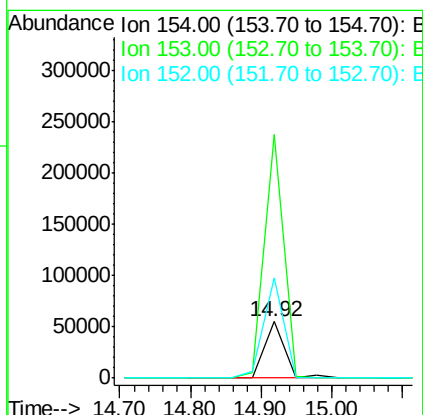
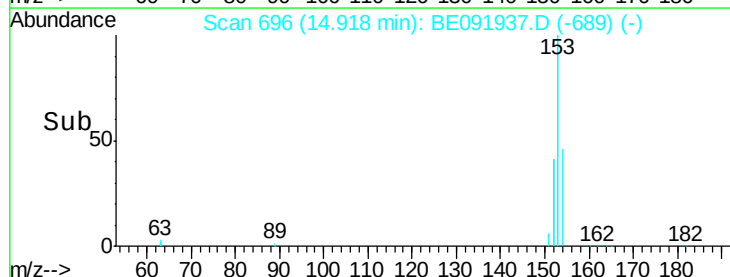
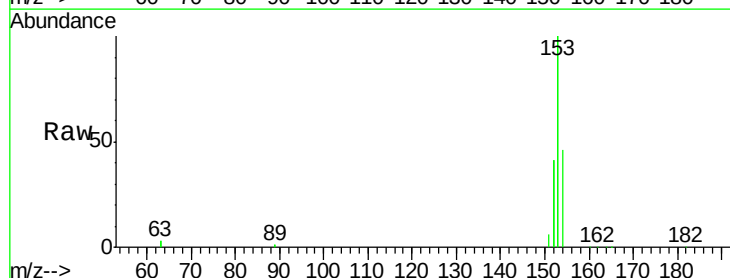
Manual Integrations
 APPROVED

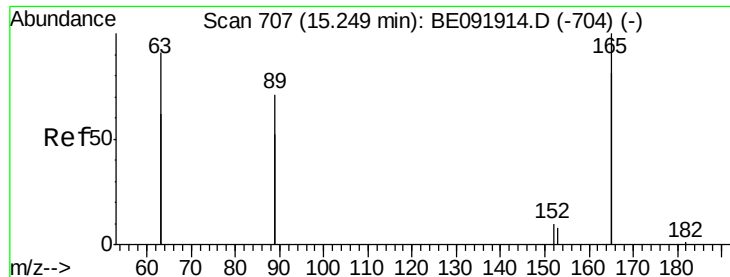
umangi
 6/16/2016 6:51:16 PM



#20
 Acenaphthene
 Concen: 3.32 ng
 RT: 14.92 min Scan# 696
 Delta R.T. -0.00 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	415.3	88.1	132.1#
152	178.0	44.2	66.2#





#21

2,4-Dinitrotoluene

Concen: 4.27 ng

RT: 15.22 min Scan# 706

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MSD

Tgt Ion:165 Resp: 97357
Ion Ratio Lower Upper

165 100

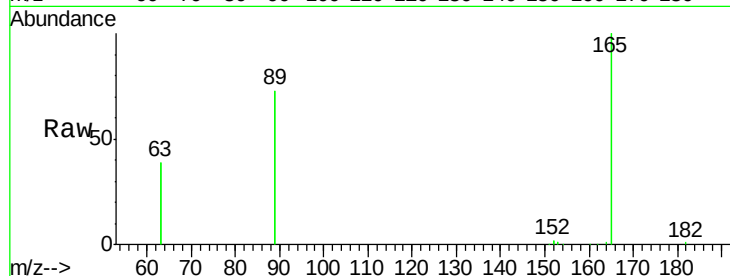
63 72.4 0.0 0.0#

89 92.9 99.8 149.8#

182 0.5 0.0 0.0#

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM

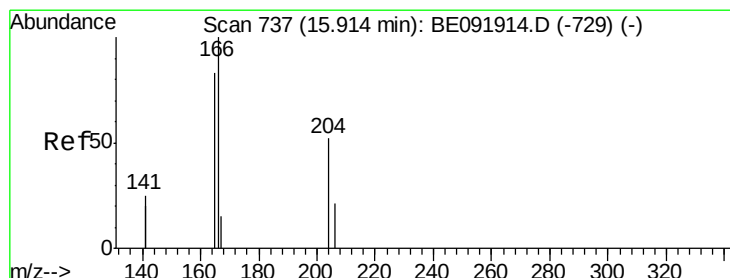
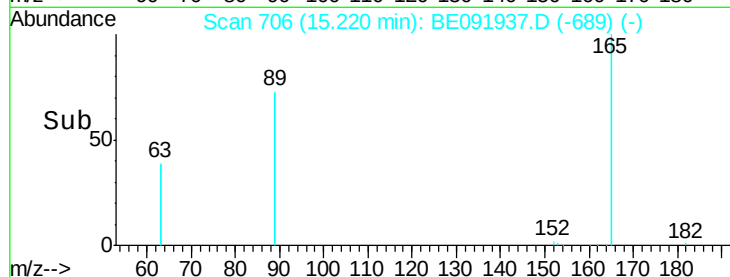
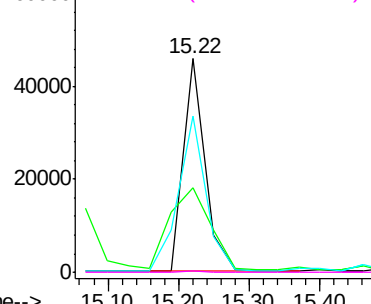


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0

Ion 182.00 (181.70 to 182.70): E



#22

Fluorene

Concen: 3.46 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.00 min

Lab File: BE091937.D

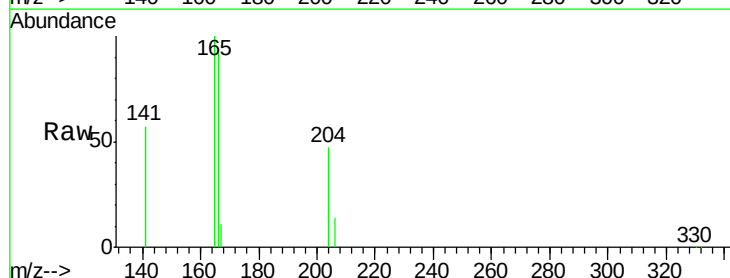
Acq: 16 Jun 2016 13:48

Tgt Ion:166 Resp: 110199
Ion Ratio Lower Upper

166 100

165 99.6 78.6 117.8

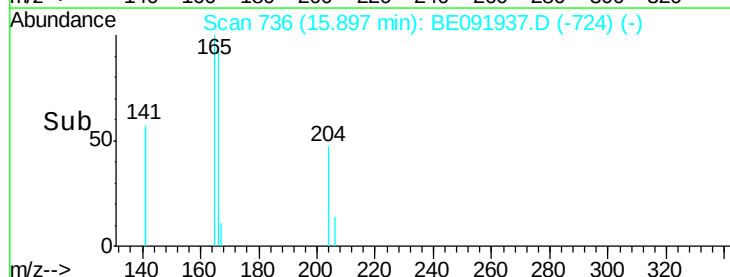
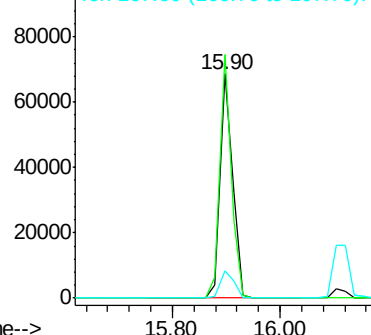
167 13.4 10.8 16.2

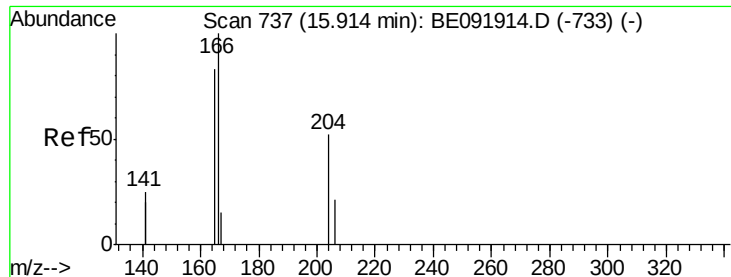


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#23

4-Chlorophenyl-phenylether

Concen: 3.28 ng

RT: 15.90 min Scan# 736

Delta R.T. -0.00 min

Lab File: BE091937.D

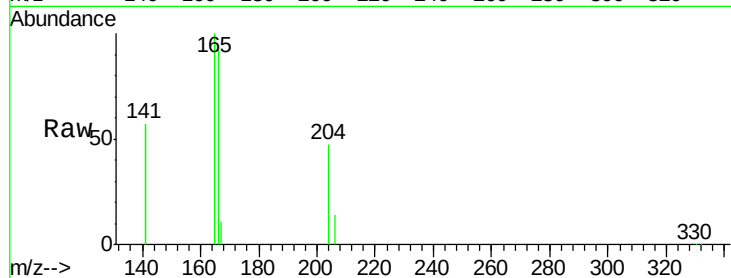
Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

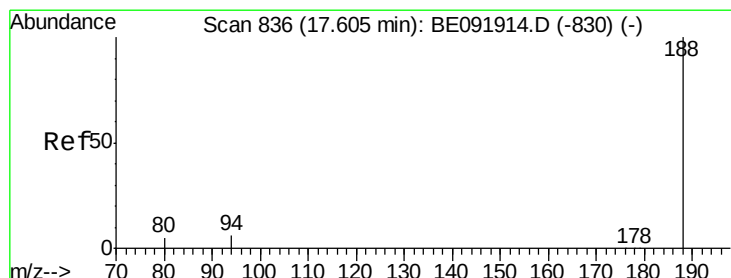
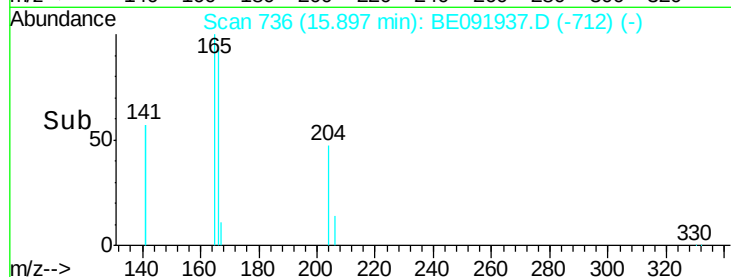
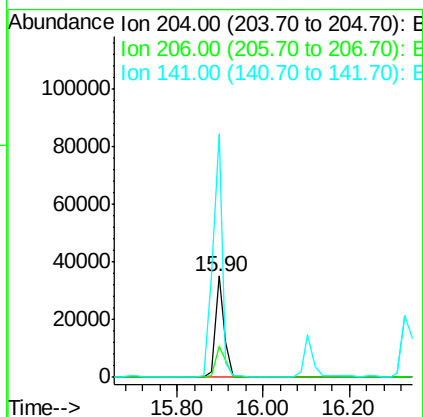
OM-SPN-001-160531MSD



Tgt Ion:	204	Resp:	51466
Ion Ratio	Lower	Upper	
204	100		
206	33.8	27.8	41.6
141	252.7	197.6	296.4

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#24

Phenanthrene-d10

Concen: 5.00 ng

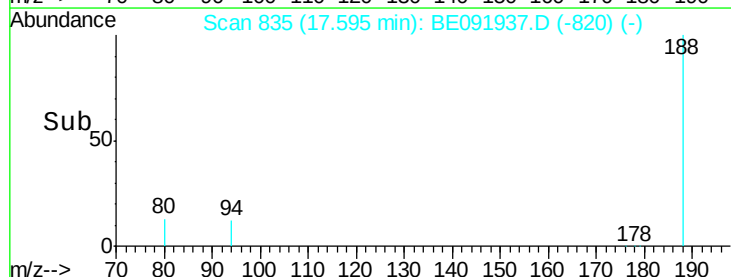
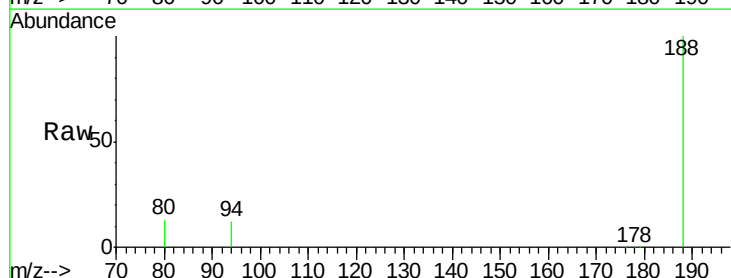
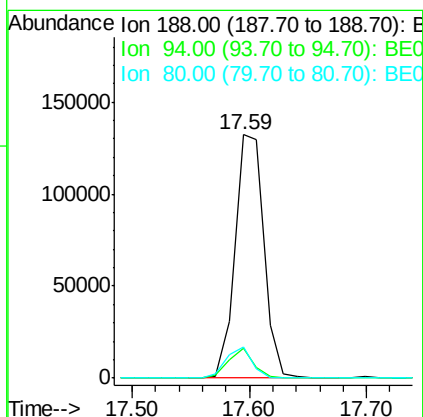
RT: 17.59 min Scan# 835

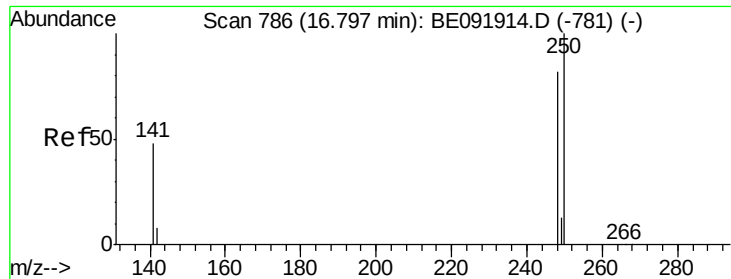
Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion:	188	Resp:	226361
Ion Ratio	Lower	Upper	
188	100		
94	12.4	4.1	6.1#
80	12.6	3.4	5.2#





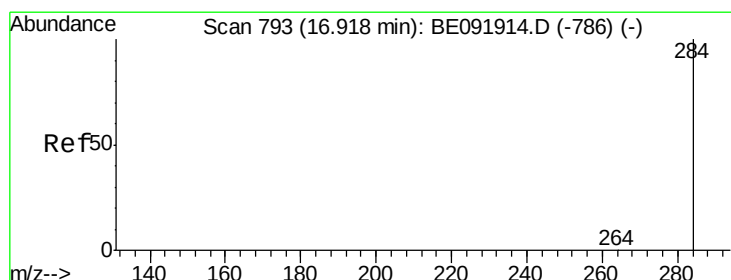
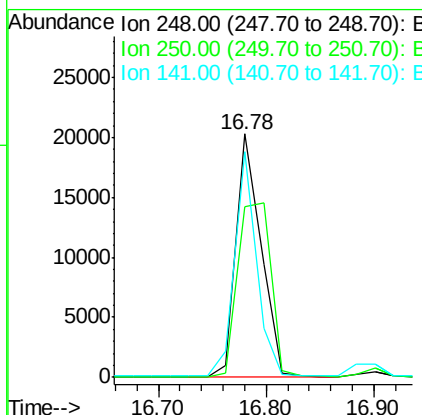
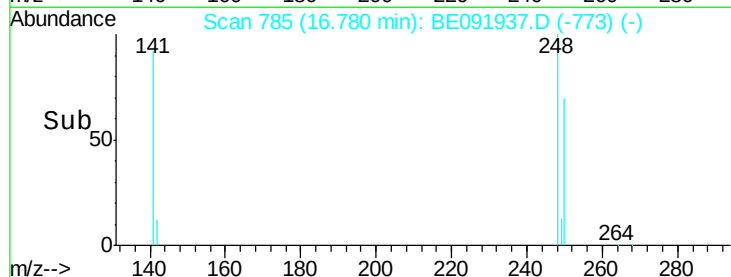
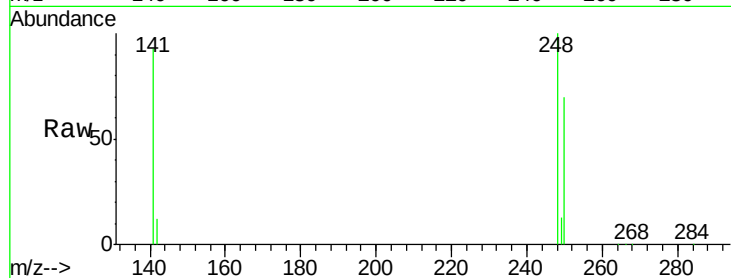
#25
4-Bromophenyl-phenylether
Concen: 3.66 ng
RT: 16.78 min Scan# 785
Delta R.T. 0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion:248 Resp: 32070
Ion Ratio Lower Upper
248 100
250 96.2 75.7 113.5
141 81.2 64.6 97.0

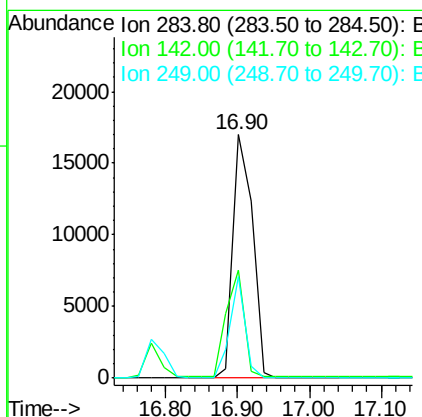
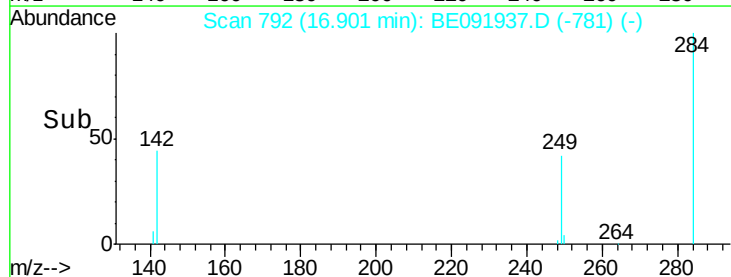
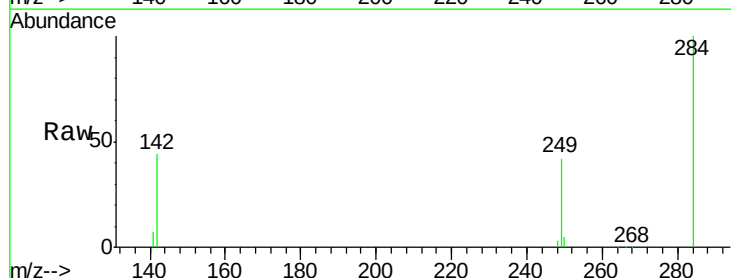
Manual Integrations
APPROVED

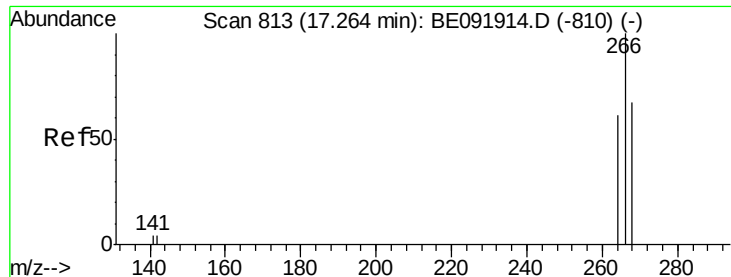
umangi
6/16/2016 6:51:16 PM



#26
Hexachlorobenzene
Concen: 3.50 ng
RT: 16.90 min Scan# 792
Delta R.T. -0.02 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion:284 Resp: 31448
Ion Ratio Lower Upper
284 100
142 40.8 31.4 47.2
249 32.3 25.3 37.9





#27

Pentachlorophenol

Concen: 6.62 ng

RT: 17.25 min Scan# 812

Delta R.T. 0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

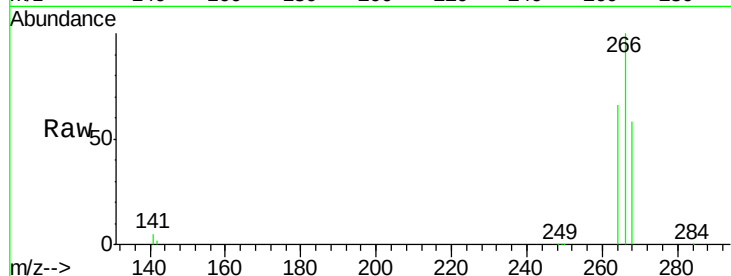
ClientSampleId :

OM-SPN-001-160531MSD

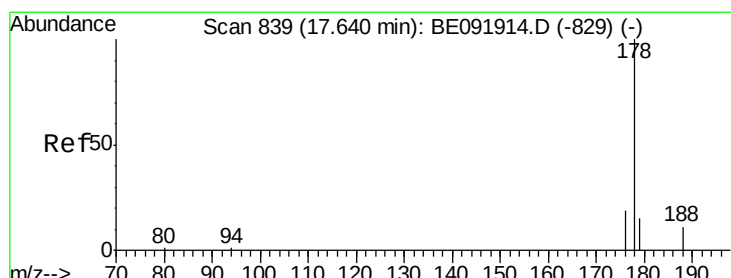
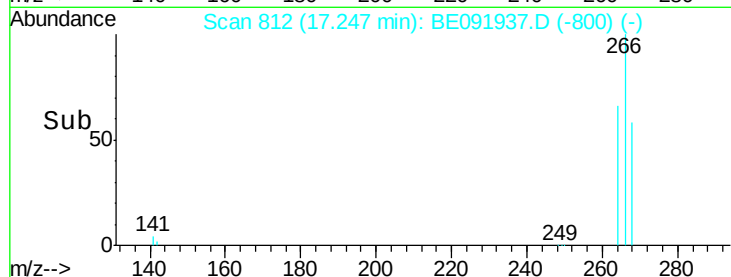
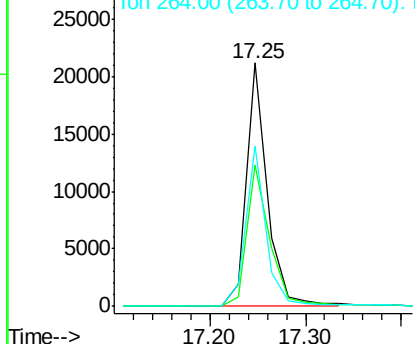
Tgt Ion:	266	Resp:	31799
Ion Ratio	Lower	Upper	
266	100		
268	58.2	60.5	90.7#
264	65.7	51.0	76.4

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



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: 3.48 ng

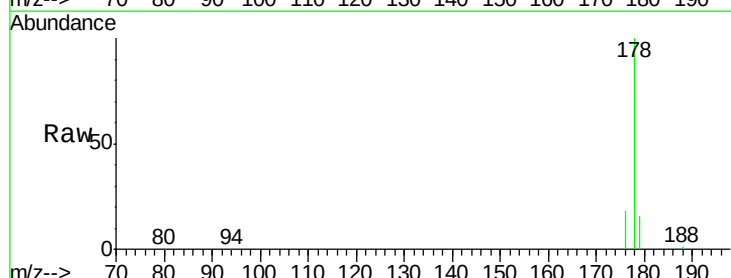
RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

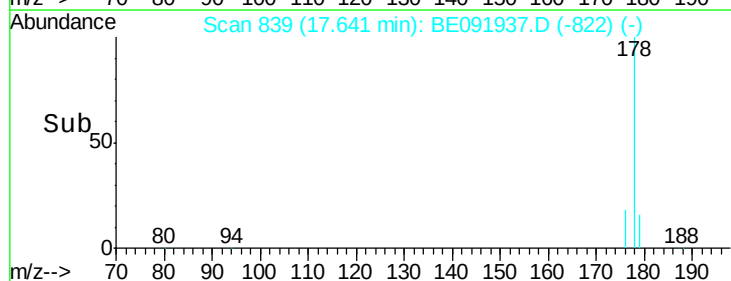
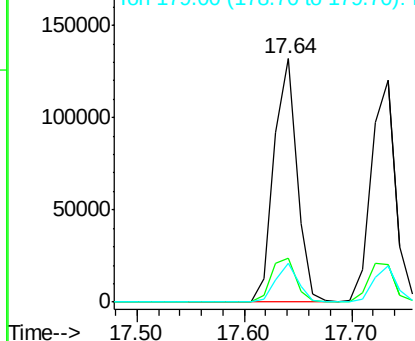
Lab File: BE091937.D

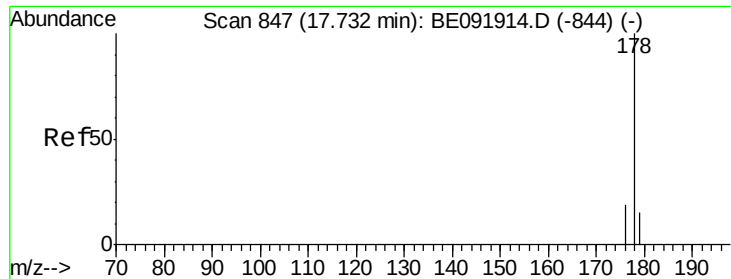
Acq: 16 Jun 2016 13:48

Tgt Ion:	178	Resp:	197157
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.4	23.2
179	15.5	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





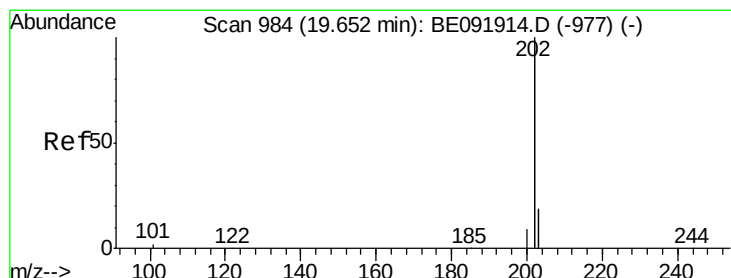
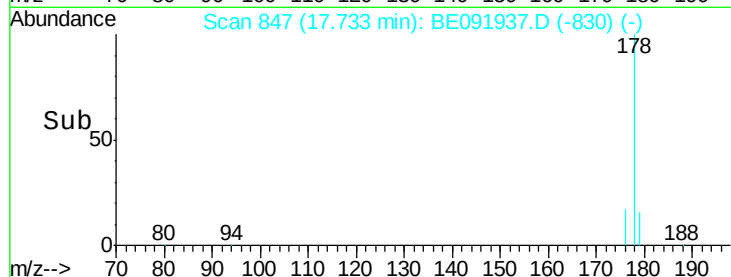
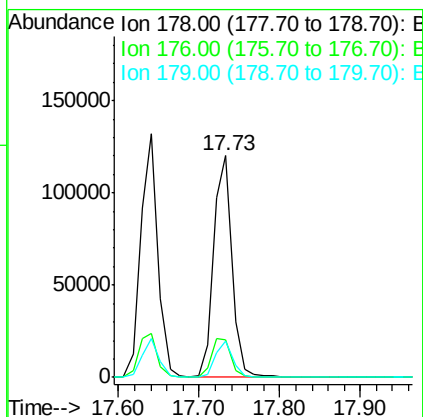
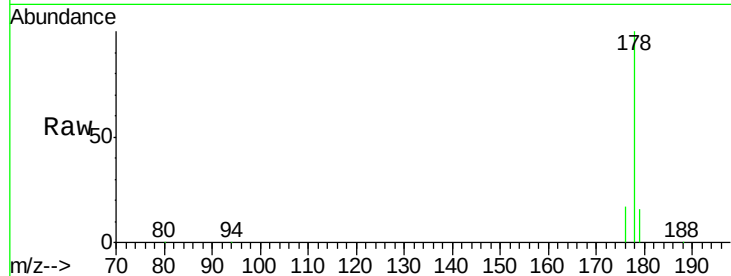
#29
 Anthracene
 Concen: 3.78 ng
 RT: 17.73 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.5	12.1	18.1

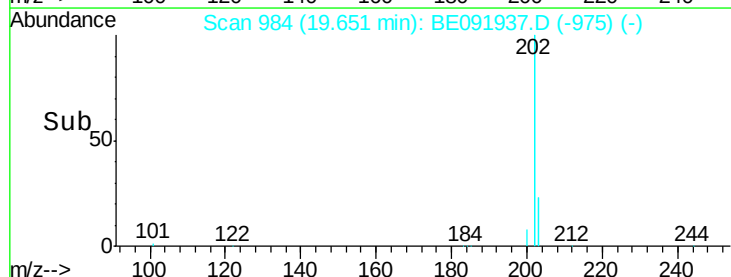
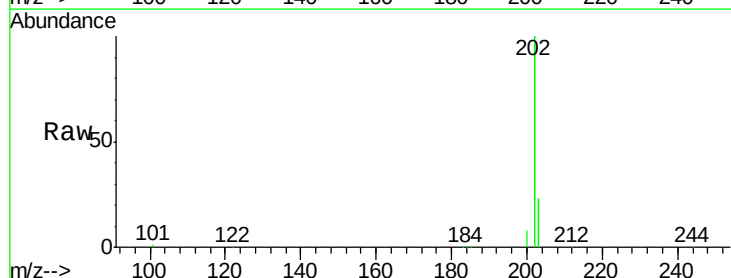
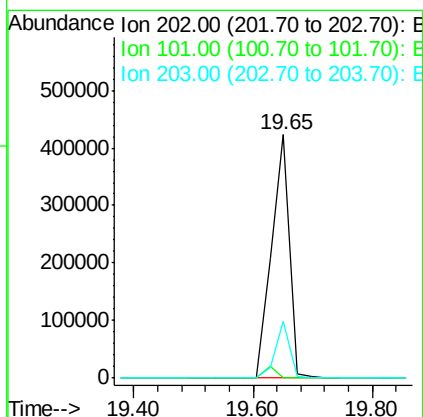
Manual Integrations
 APPROVED

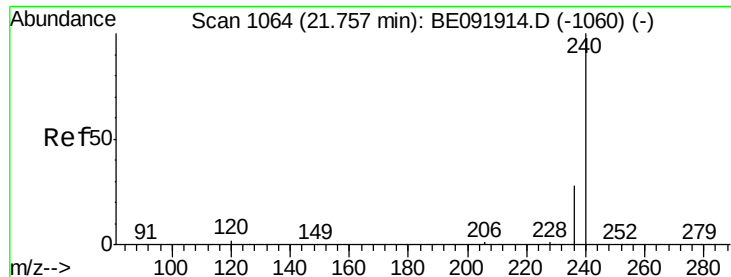
umangi
 6/16/2016 6:51:16 PM



#30
 Fluoranthene
 Concen: 3.64 ng
 RT: 19.65 min Scan# 984
 Delta R.T. 0.00 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
202	100		
101	0.0	9.4	14.0#
203	18.9	14.3	21.5





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. -0.00 min

Lab File: BE091937.D

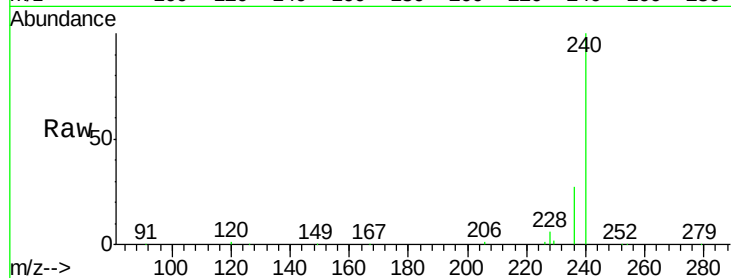
Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

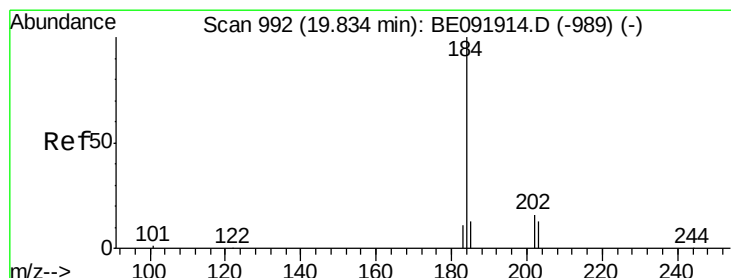
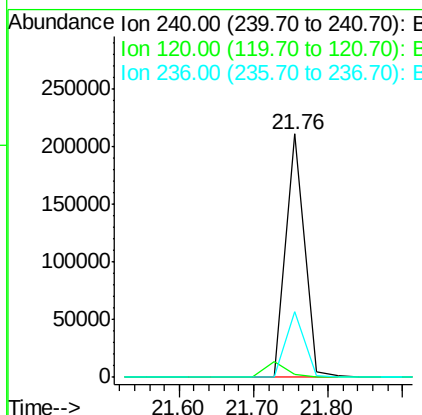
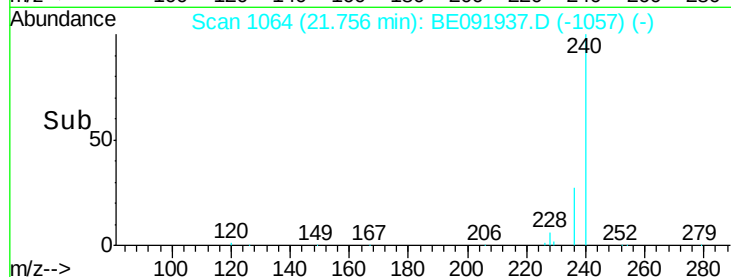
OM-SPN-001-160531MSD



Tgt Ion:	240	Resp:	372634
Ion Ratio	Lower	Upper	
240	100		
120	1.4	1.2	1.8
236	27.2	19.8	29.8

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#32

Benzidine

Concen: 0.16 ng

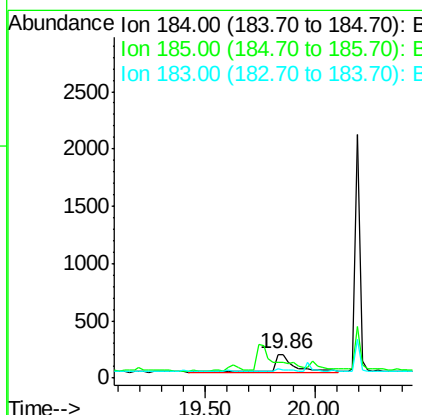
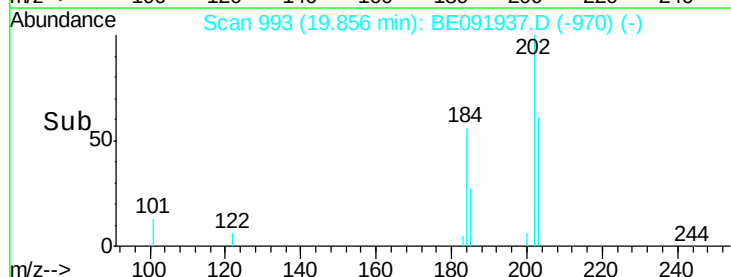
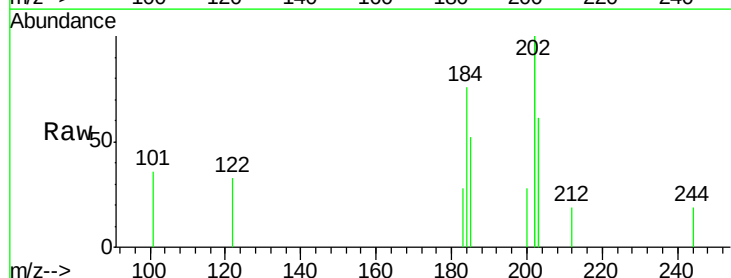
RT: 19.86 min Scan# 993

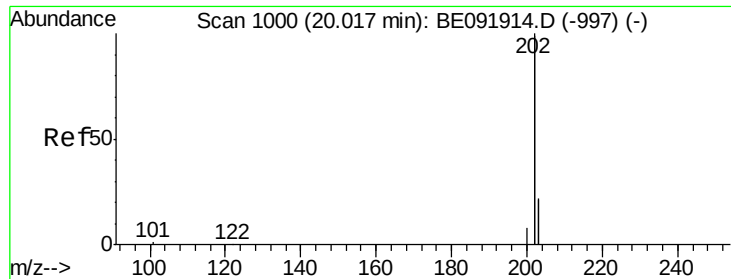
Delta R.T. 0.02 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion:	184	Resp:	944
Ion Ratio	Lower	Upper	
184	100		
185	68.3	11.4	17.2#
183	36.6	11.8	17.6#





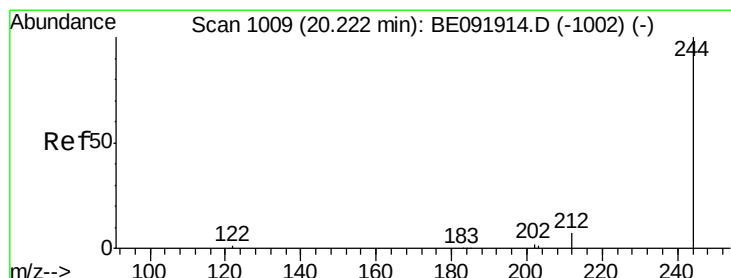
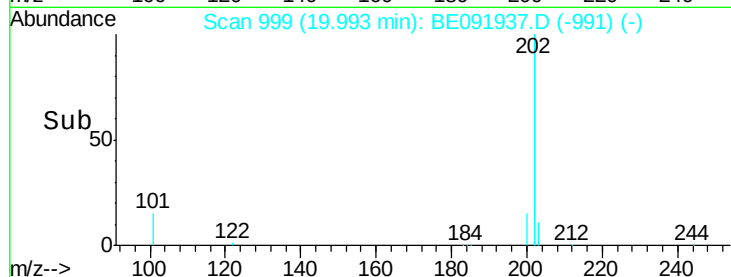
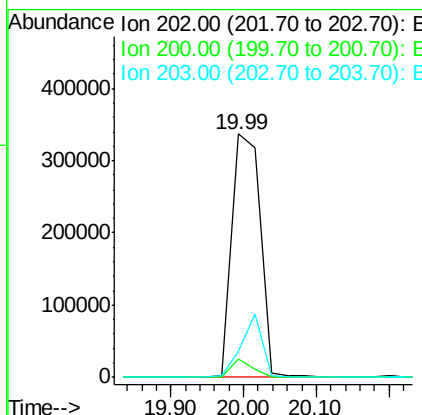
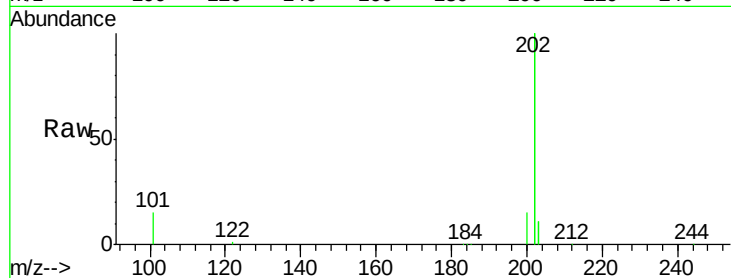
#33
 Pyrene
 Concen: 3.59 ng
 RT: 19.99 min Scan# 999
 Delta R.T. -0.02 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.6	16.9	25.3#
203	0.0	14.1	21.1#

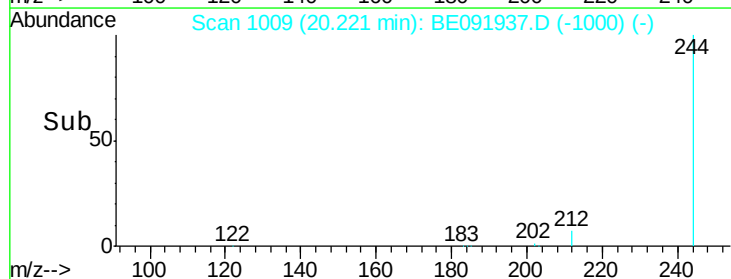
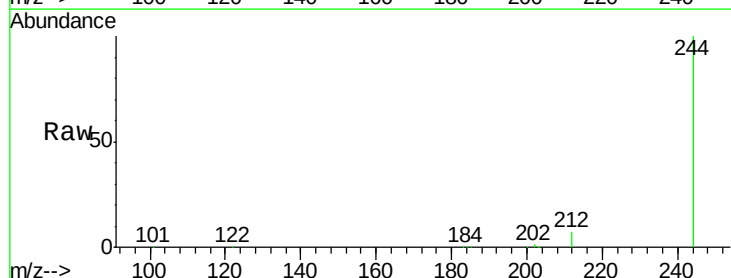
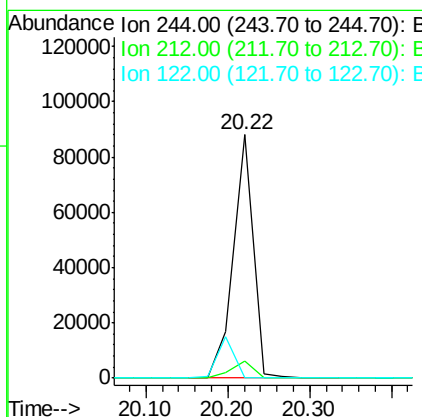
Manual Integrations
 APPROVED

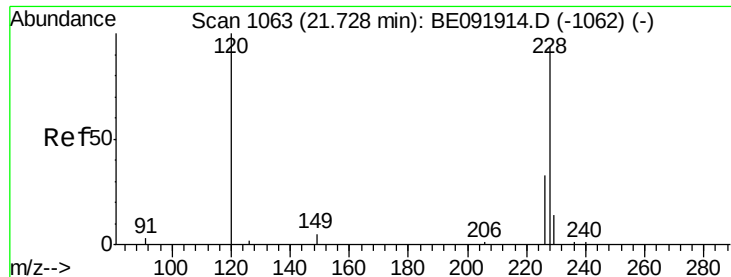
umangi
 6/16/2016 6:51:16 PM



#34
 Terphenyl-d14
 Concen: 3.21 ng
 RT: 20.22 min Scan# 1009
 Delta R.T. 0.00 min
 Lab File: BE091937.D
 Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.7	6.5	9.7
122	0.4	2.9	4.3#





#35

Benzo(a)anthracene

Concen: 4.65 ng

RT: 21.73 min Scan# 1063

Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

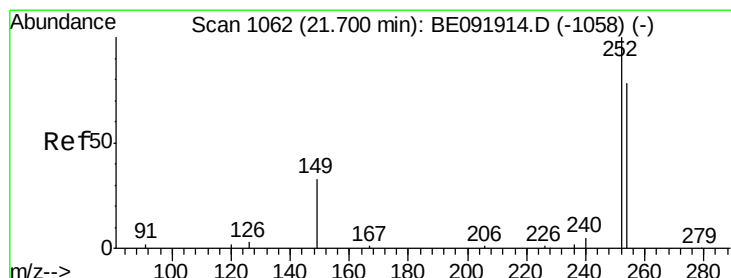
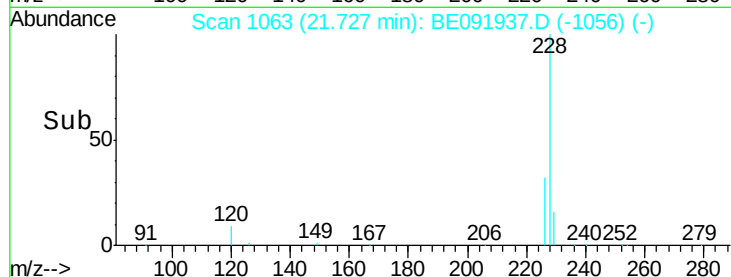
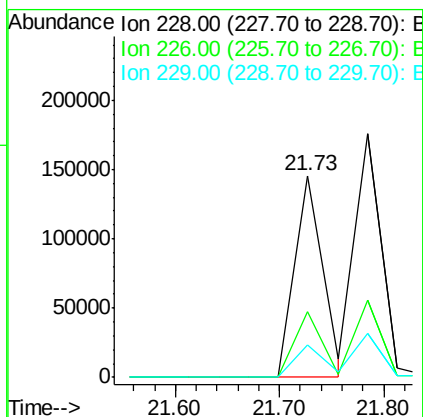
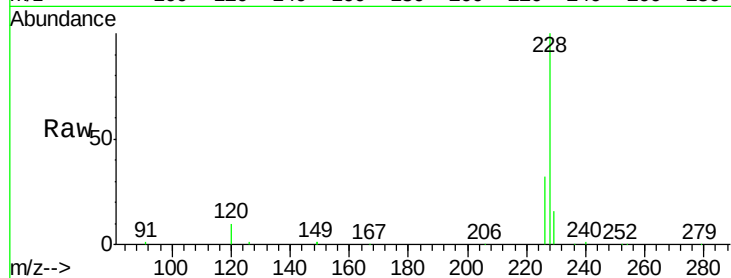
ClientSampleId :

OM-SPN-001-160531MSD

Tgt Ion:	228	Resp:	272264
Ion Ratio	Lower	Upper	
228	100		
226	32.3	21.0	31.4#
229	16.2	15.8	23.8

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#36

3,3'-Dichlorobenzidine

Concen: 4.39 ng

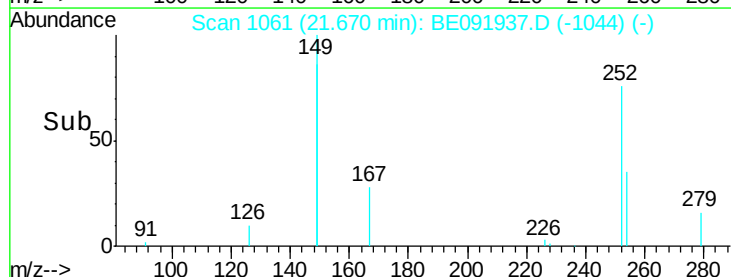
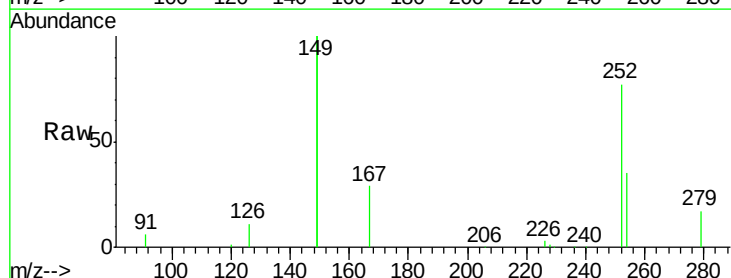
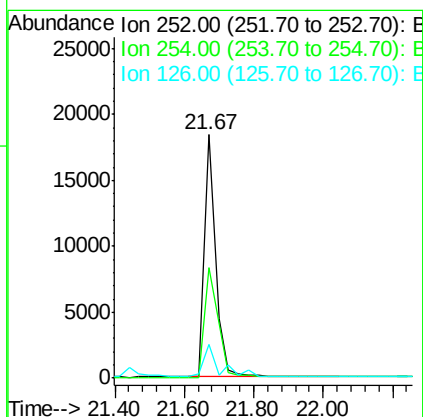
RT: 21.67 min Scan# 1061

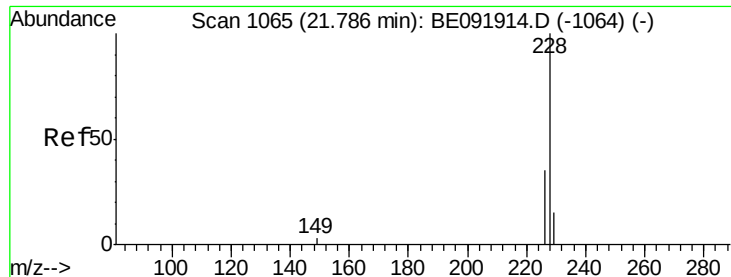
Delta R.T. -0.00 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion:	252	Resp:	41646
Ion Ratio	Lower	Upper	
252	100		
254	45.4	61.5	92.3#
126	14.1	2.5	3.7#





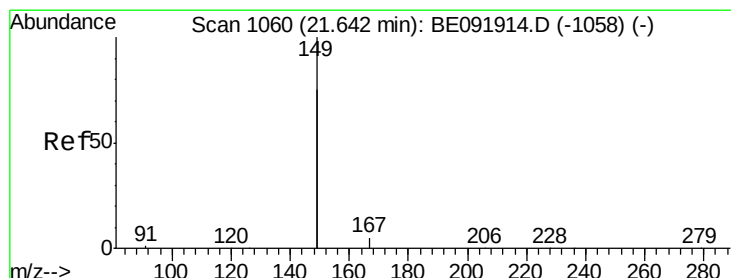
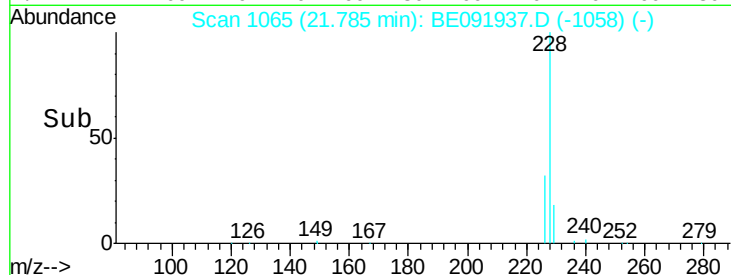
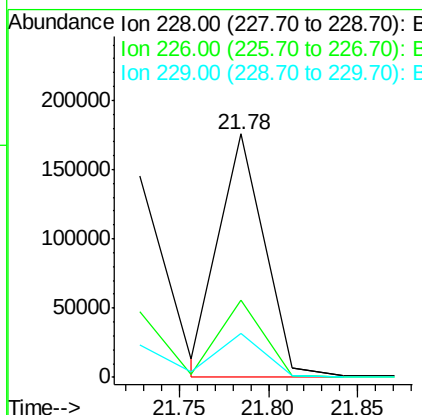
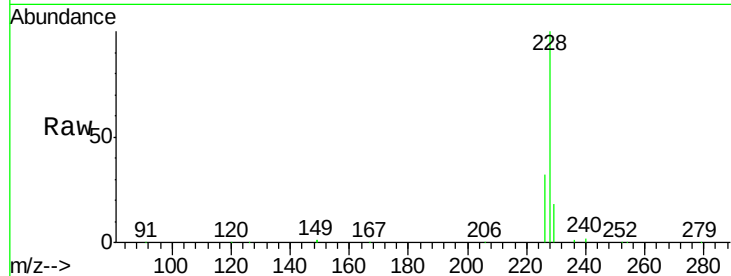
#37
Chrysene
Concen: 3.69 ng m
RT: 21.78 min Scan# 1065
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	27.0	40.6
229	18.1	13.8	20.8

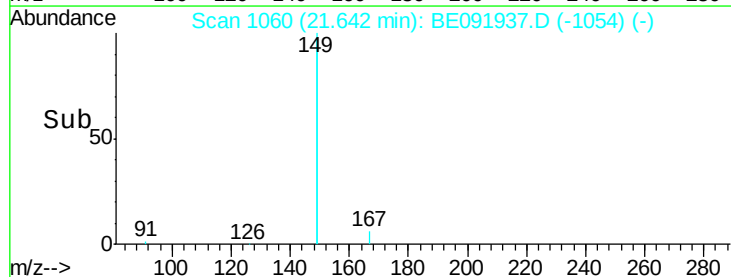
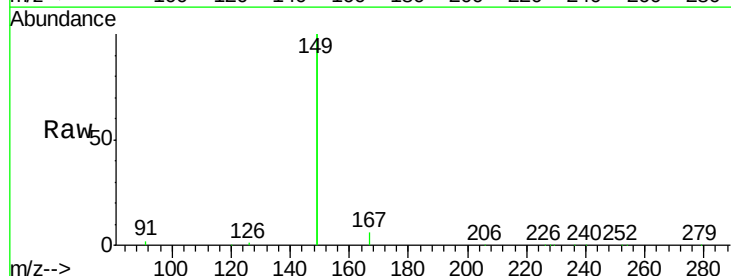
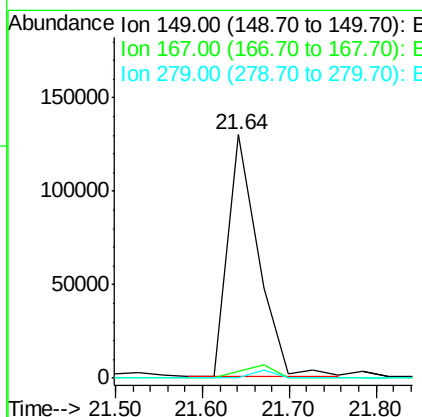
Manual Integrations
APPROVED

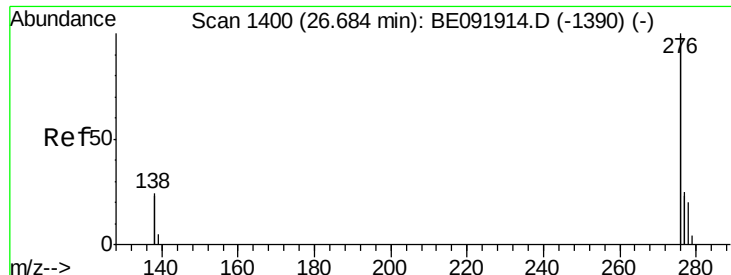
umangi
6/16/2016 6:51:16 PM



#38
Bis(2-ethylhexyl)phthalate
Concen: 5.06 ng
RT: 21.64 min Scan# 1060
Delta R.T. -0.03 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
149	100		
167	0.0	0.0	0.0
279	0.0	0.0	0.0





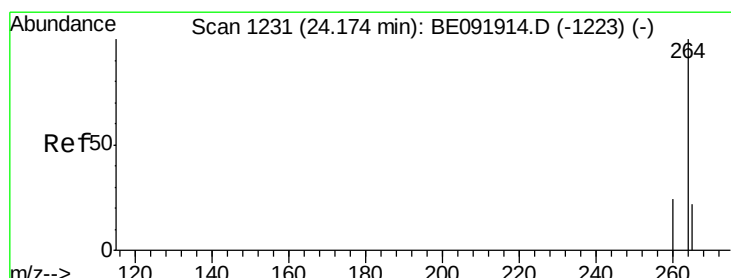
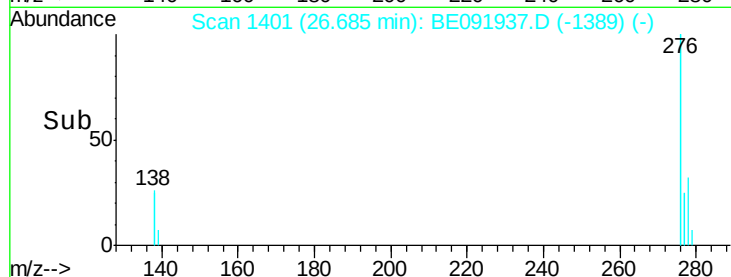
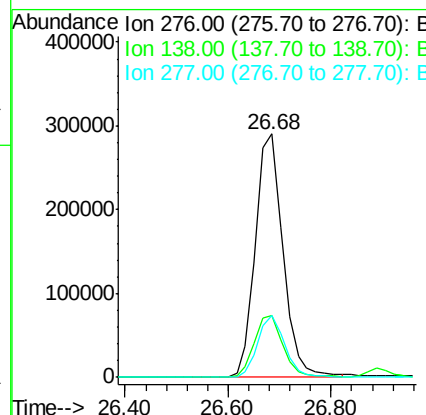
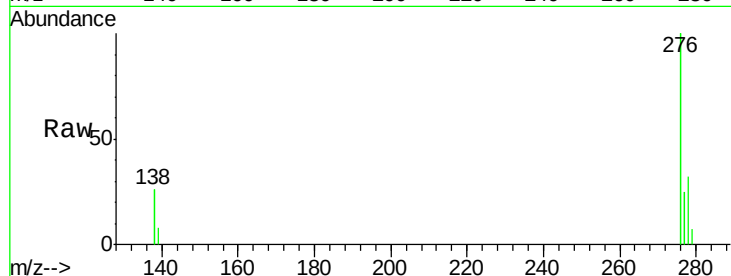
#39
Indeno(1,2,3-cd)pyrene
Concen: 3.66 ng
RT: 26.68 min Scan# 1401
Delta R.T. -0.00 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

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

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.7	29.5
277	24.8	20.1	30.1

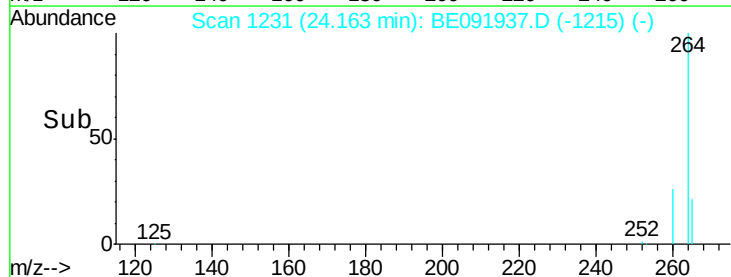
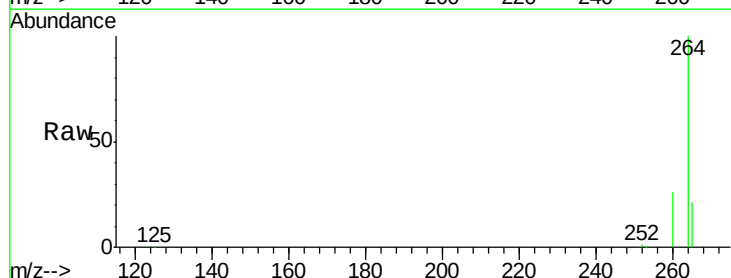
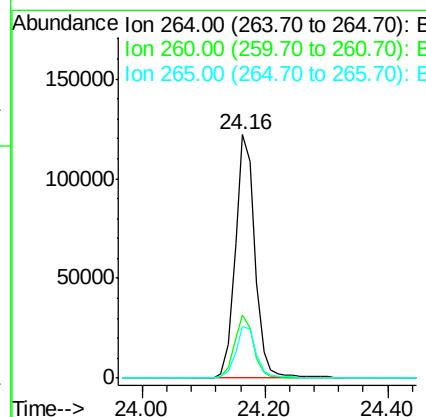
Manual Integrations
APPROVED

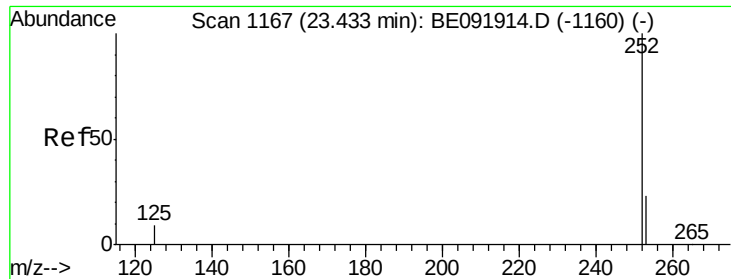
umangi
6/16/2016 6:51:16 PM



#40
Perylene-d12
Concen: 5.00 ng
RT: 24.16 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BE091937.D
Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.3	30.5
265	21.3	17.6	26.4





#41

Benzo(b)fluoranthene

Concen: 3.64 ng

RT: 23.42 min Scan# 1167

Delta R.T. -0.01 min

Lab File: BE091937.D

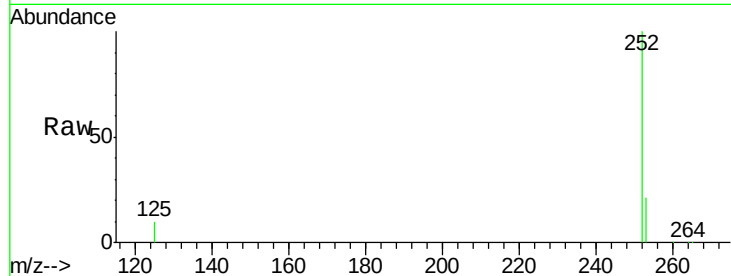
Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

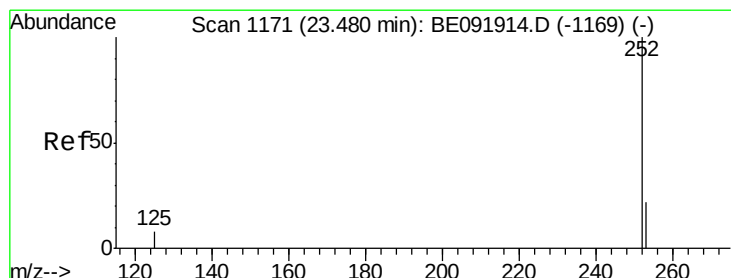
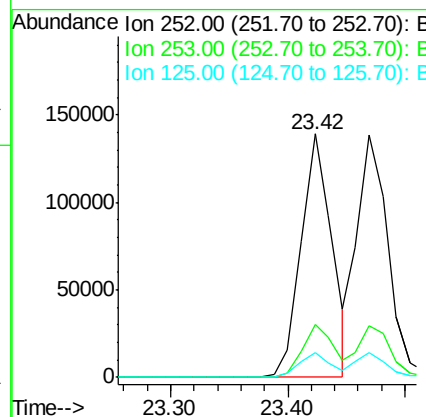
OM-SPN-001-160531MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	10.3	9.4	14.2

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#42

Benzo(k)fluoranthene

Concen: 3.99 ng

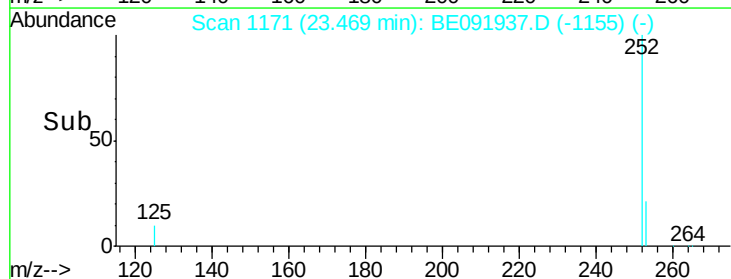
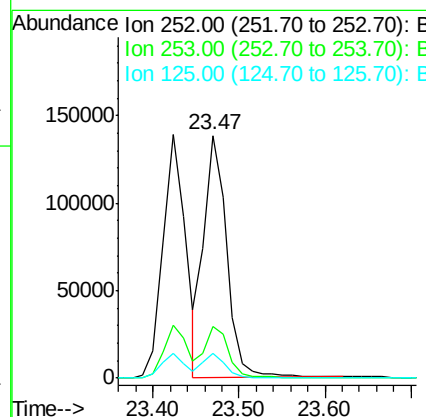
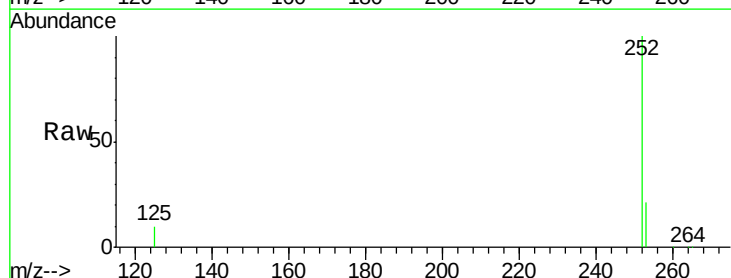
RT: 23.47 min Scan# 1171

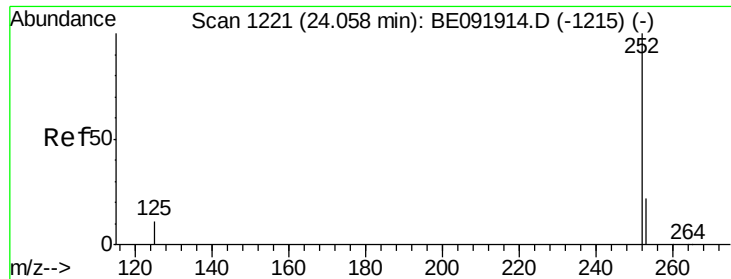
Delta R.T. -0.01 min

Lab File: BE091937.D

Acq: 16 Jun 2016 13:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.4	29.2
125	10.3	8.3	12.5





#43

Benzo(a)pyrene

Concen: 3.93 ng

RT: 24.06 min Scan# 1222

Delta R.T. 0.00 min

Lab File: BE091937.D

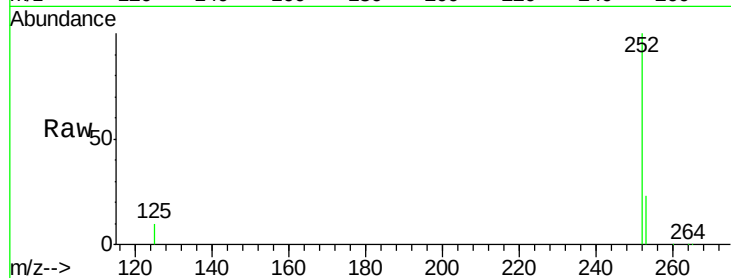
Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

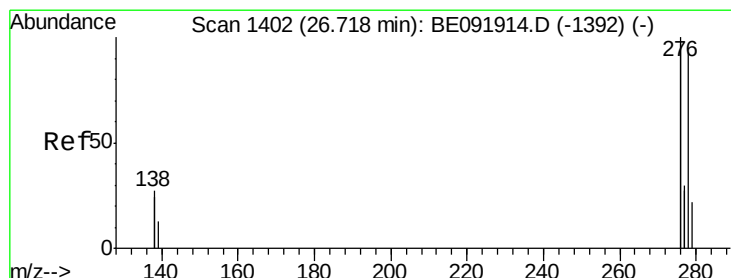
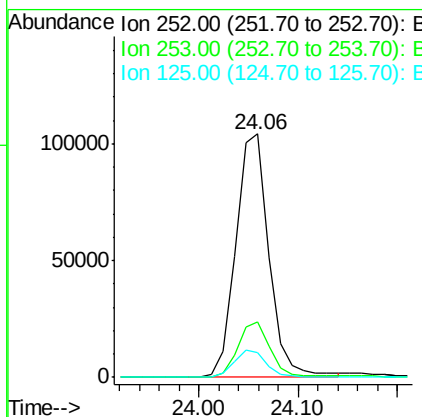
OM-SPN-001-160531MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.9	28.3
125	10.4	10.5	15.7#

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM



#44

Dibenzo(a,h)anthracene

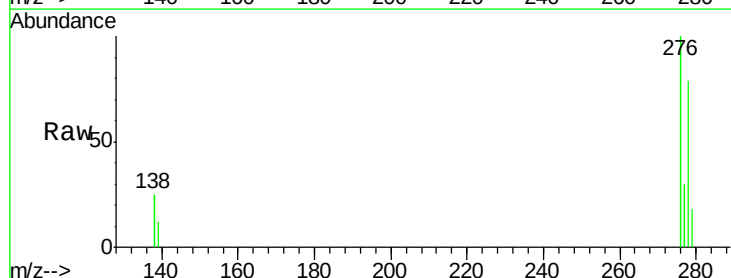
Concen: 3.77 ng

RT: 26.70 min Scan# 1402

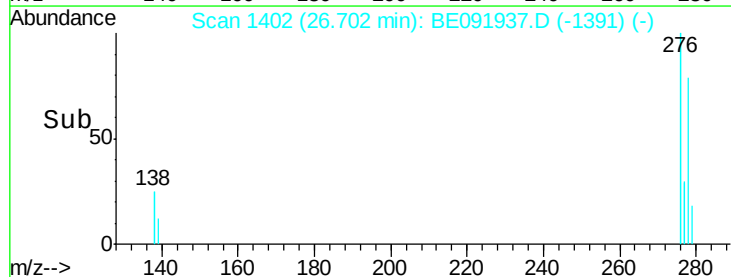
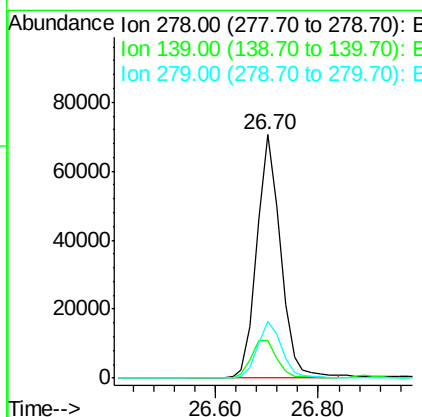
Delta R.T. -0.02 min

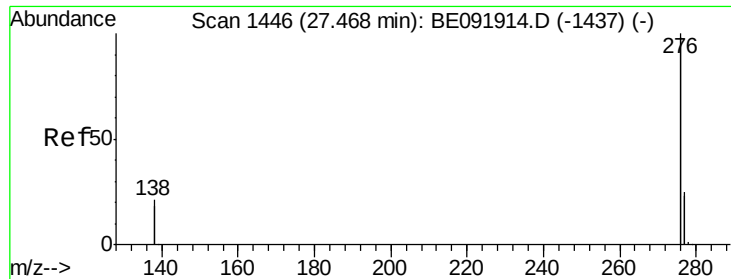
Lab File: BE091937.D

Acq: 16 Jun 2016 13:48



Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.5	12.6	18.8
279	23.5	20.0	30.0





#45

Benzo(g,h,i)perylene

Concen: 3.73 ng

RT: 27.45 min Scan# 1446

Delta R.T. -0.02 min

Lab File: BE091937.D

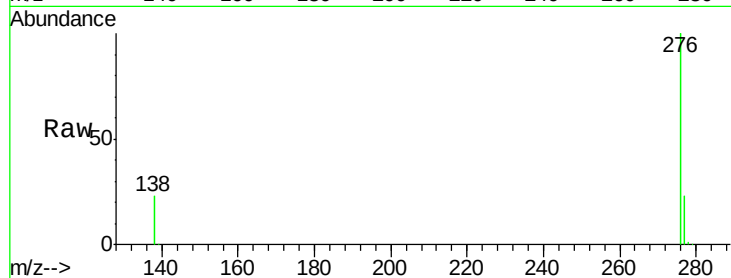
Acq: 16 Jun 2016 13:48

Instrument :

BNA_E

ClientSampleId :

OM-SPN-001-160531MSD



Tgt	Ion	276	Resp	910830
Ion	Ratio	Lower	Upper	
276	100			
277	22.8	19.5	29.3	
138	22.8	17.7	26.5	

Manual Integrations
APPROVED

umangi
6/16/2016 6:51:16 PM

