

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE091481.D
 Acq On : 18 Mar 2016 12:47
 Operator : UM/SJ
 Sample : MDL-01-W
 Misc : 0.08PPM
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:30 PM

Quant Time: Mar 18 14:21:47 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	51599	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	219417	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	126014	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	334438	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	479554	5.00	ng	0.00
28) Perylene-d12	23.80	264	421430	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	93042	7.85	ng	0.00
5) Phenol-d6	6.99	99	120399	7.78	ng	0.00
7) Nitrobenzene-d5	8.98	82	41059	3.49	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	32040	6.93	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	141529	4.46	ng	0.00
24) Terphenyl-d14	19.78	244	255223	4.43	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.37	88	771	0.12	ng	# 66
3) n-Nitrosodimethylamine	3.70	42	312	0.03	ng	# 96
8) Naphthalene	10.65	128	3009	0.06	ng	# 94
9) 2-Methylnaphthalene	12.27	142	1742	0.05	ng	# 94
13) Acenaphthylene	14.16	152	2400	0.17	ng	# 85
14) Acenaphthene	14.50	154	1954	0.05	ng	92
15) Fluorene	15.48	166	2446	0.05	ng	97
17) Hexachlorobenzene	16.48	284	822	0.06	ng	98
18) Pentachlorophenol	16.83	266	502	0.27	ng	91
19) Phenanthrene	17.22	178	5437m	0.06	ng	
20) Anthracene	17.31	178	3963	0.05	ng	98
21) Fluoranthene	19.22	202	6026	0.06	ng	# 95
23) Pyrene	19.59	202	6836	0.06	ng	98
25) Benzo(a)anthracene	21.31	228	9078m	0.07	ng	
26) Chrysene	21.36	228	11559m	0.09	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	6617	0.05	ng	98
29) Benzo(b)fluoranthene	23.03	252	9757	0.07	ng	# 85
30) Benzo(k)fluoranthene	23.09	252	8333	0.06	ng	# 86
31) Benzo(a)pyrene	23.68	252	6102	0.05	ng	# 73
32) Dibenzo(a,h)anthracene	26.42	278	5325	0.05	ng	# 81
33) Benzo(g,h,i)perylene	27.17	276	5984	0.05	ng	# 89

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

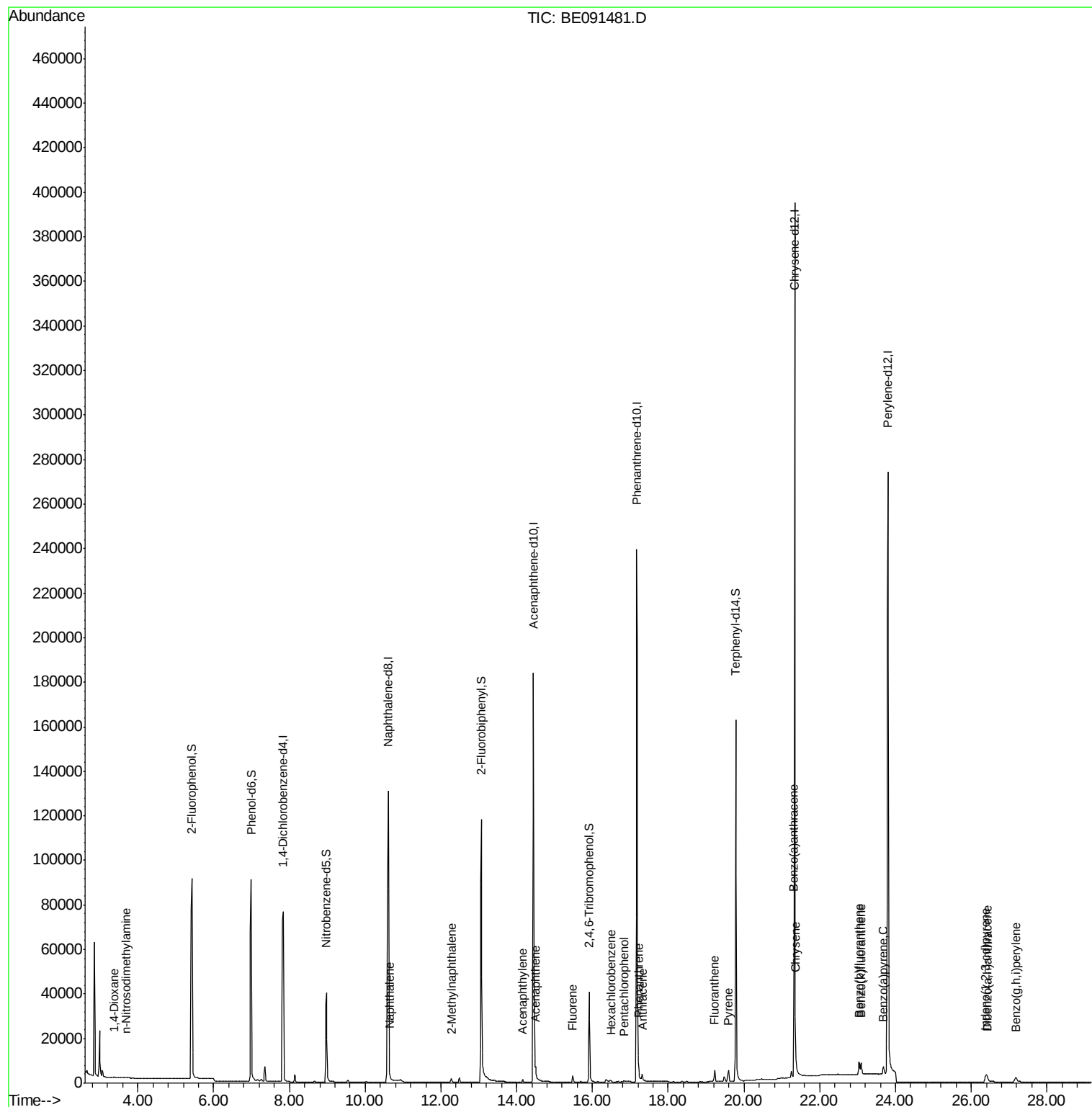
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
Data File : BE091481.D
Acq On : 18 Mar 2016 12:47
Operator : UM/SJ
Sample : MDL-01-W
Misc : 0.08PPM
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM

Quant Time: Mar 18 14:21:47 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 14:14:30 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

Lab File: BE091481.D

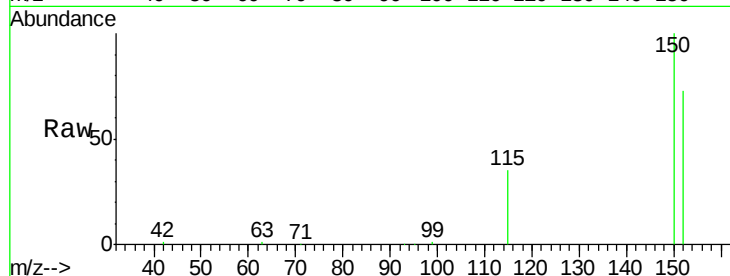
Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

ClientSampleId :

MDL-01-W



Tgt Ion: 152 Resp: 51599

Ion Ratio Lower Upper

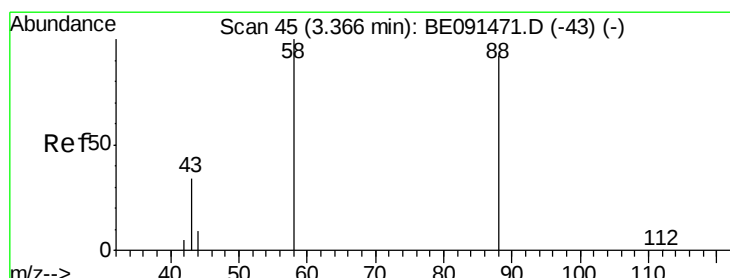
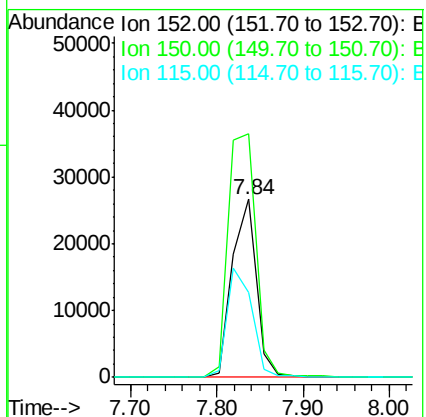
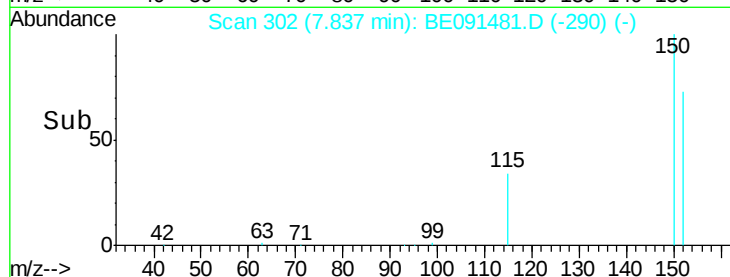
152 100

150 137.0 122.2 183.2

115 47.4 45.9 68.9

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

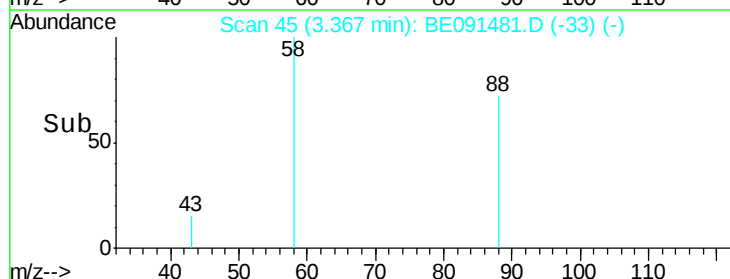
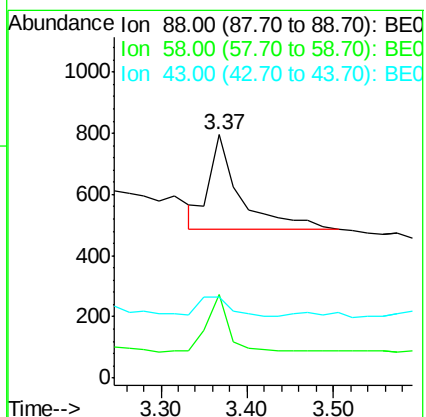
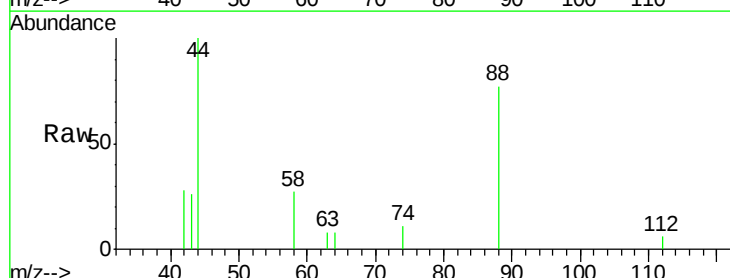
Tgt Ion: 88 Resp: 771

Ion Ratio Lower Upper

88 100

58 42.4 61.0 91.6#

43 20.1 25.4 38.2#





#3

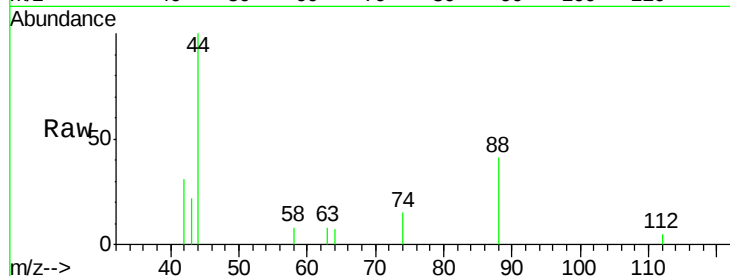
n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

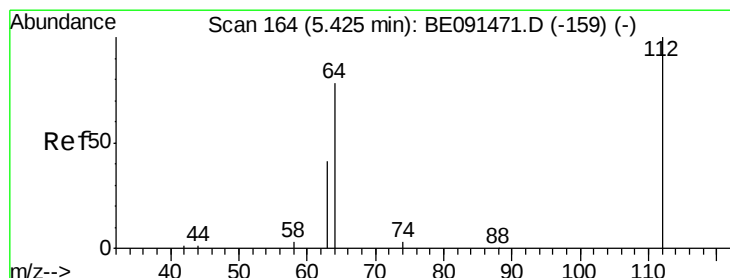
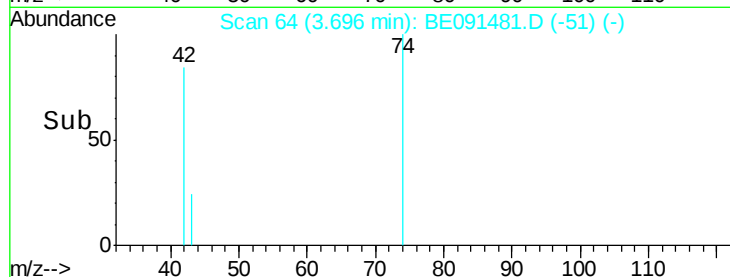
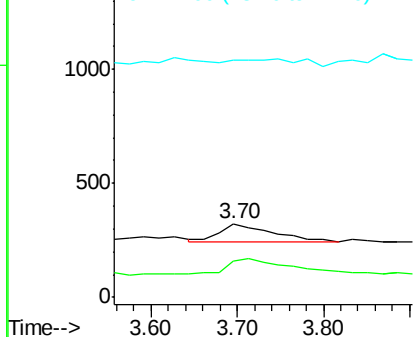
Tgt Ion: 42 Resp: 312
Ion Ratio Lower Upper
42 100
74 108.0 84.3 126.5
44 0.0 6.7 10.1#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



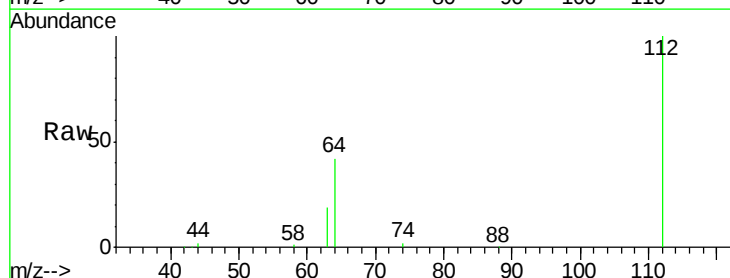
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



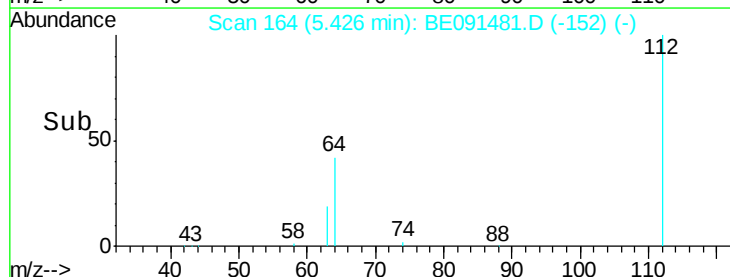
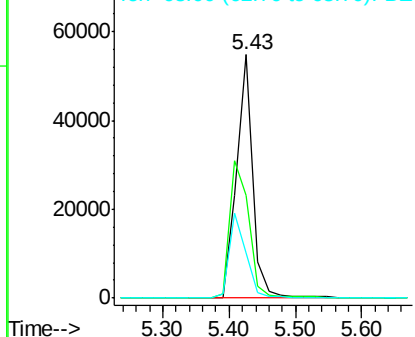
#4

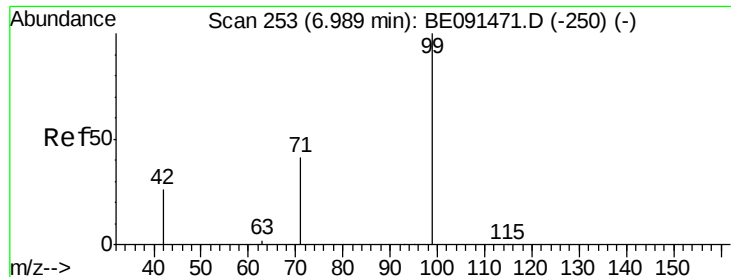
2-Fluorophenol
Concen: 7.85 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion: 112 Resp: 93042
Ion Ratio Lower Upper
112 100
64 66.4 53.3 79.9
63 36.0 29.8 44.8



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





#5

Phenol-d6

Concen: 7.78 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

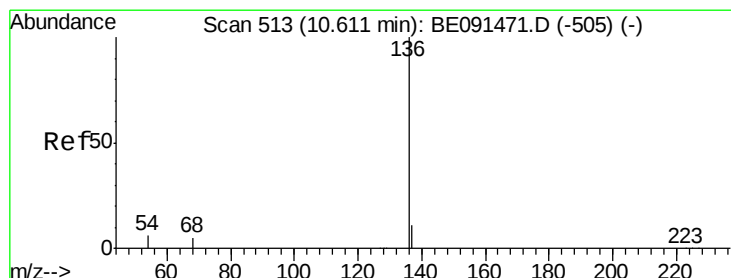
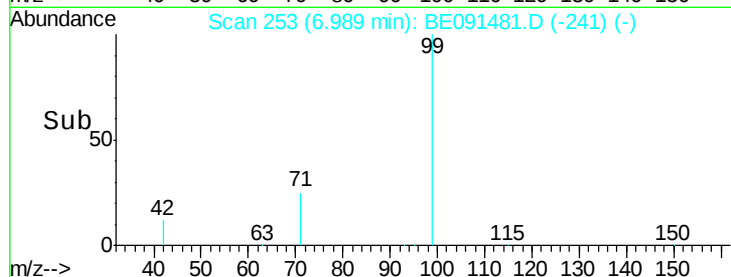
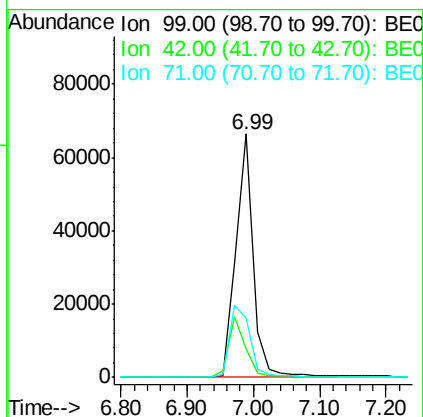
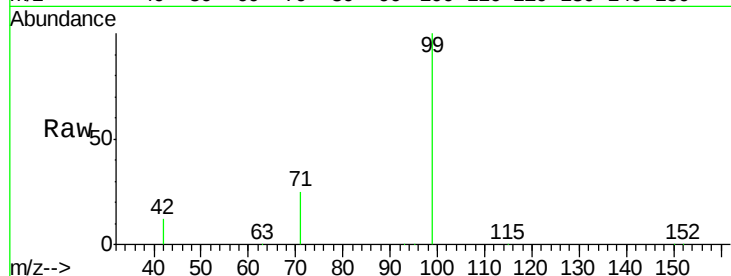
ClientSampleId :

MDL-01-W

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	120399		
42	24.3		20.6	30.8
71	35.1		29.0	43.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#6

Naphthalene-d8

Concen: 5.00 ng

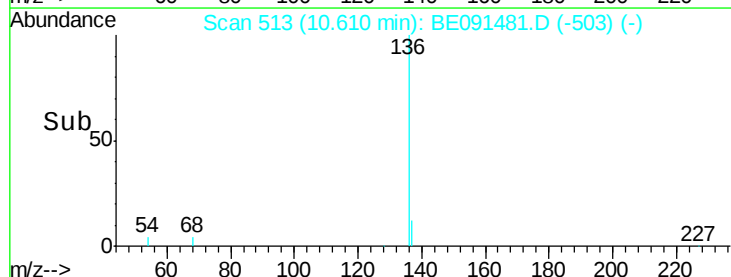
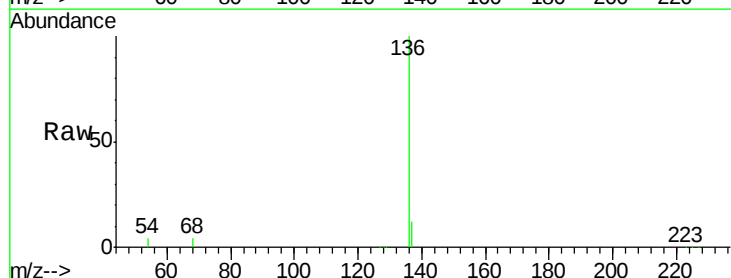
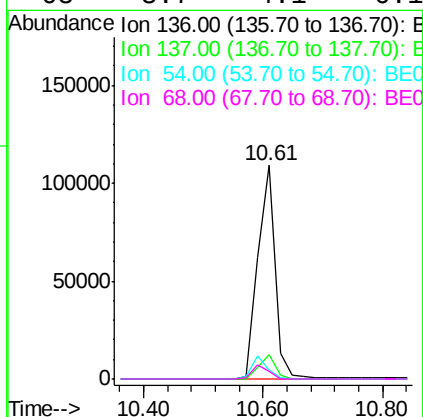
RT: 10.61 min Scan# 513

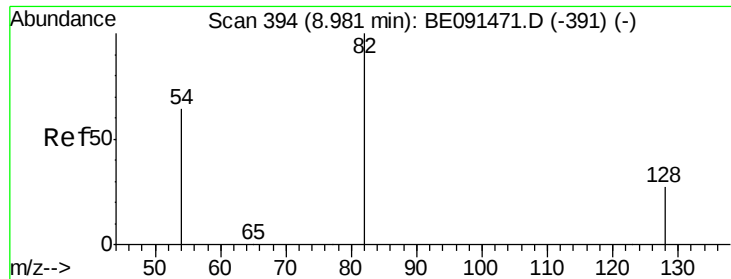
Delta R.T. -0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	219417		
137	11.7		8.8	13.2
54	4.4		5.2	7.8#
68	3.7		4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.49 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

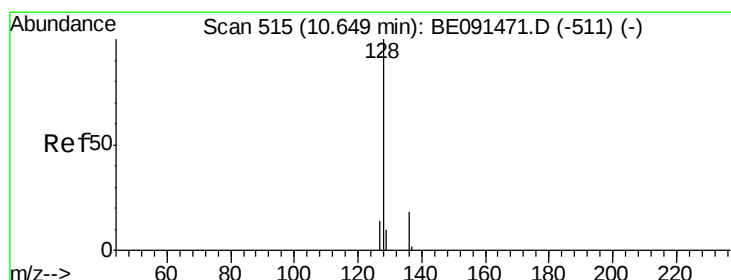
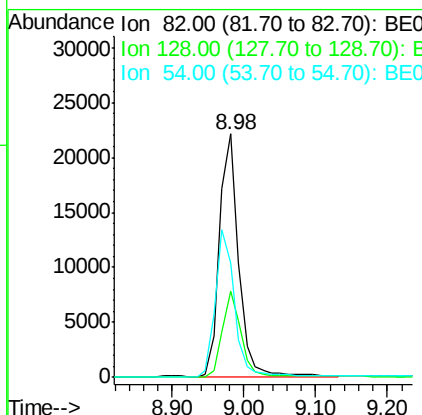
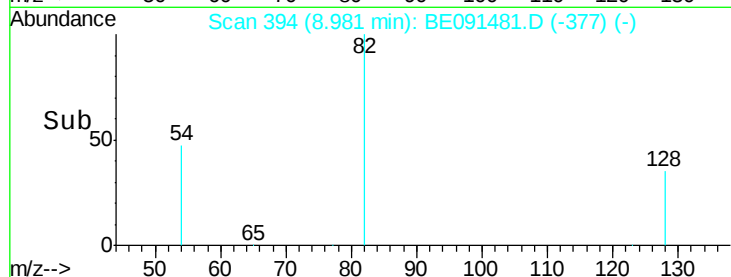
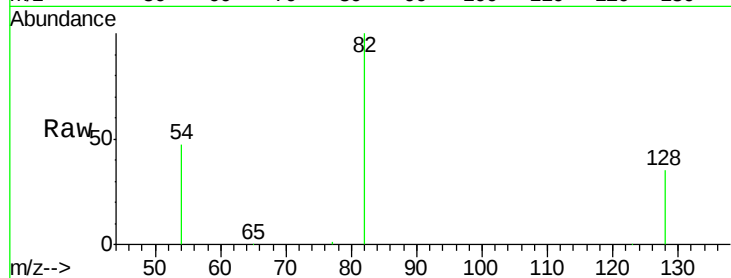
ClientSampleId :

MDL-01-W

Tgt Ion:	82	Resp:	41059
Ion Ratio	Lower	Upper	
82	100		
128	35.5	23.5	35.3#
54	46.8	52.4	78.6#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#8

Naphthalene

Concen: 0.06 ng

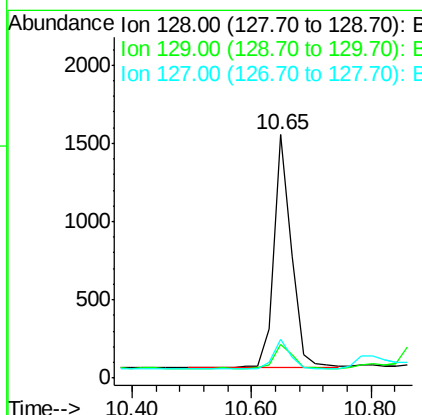
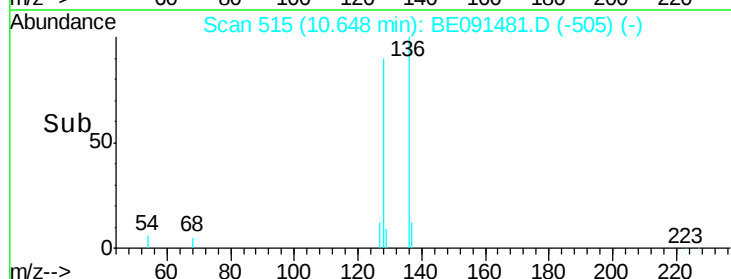
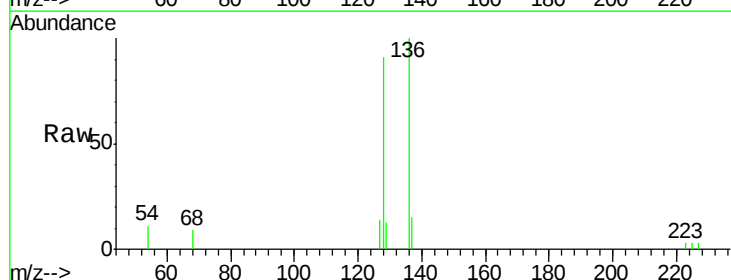
RT: 10.65 min Scan# 515

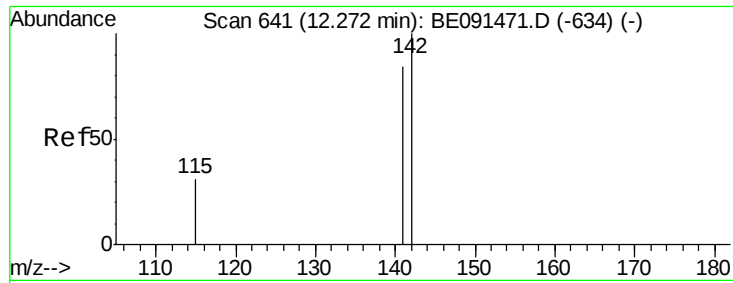
Delta R.T. -0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Tgt Ion:	128	Resp:	3009
Ion Ratio	Lower	Upper	
128	100		
129	14.0	8.2	12.2#
127	16.0	11.8	17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091481.D

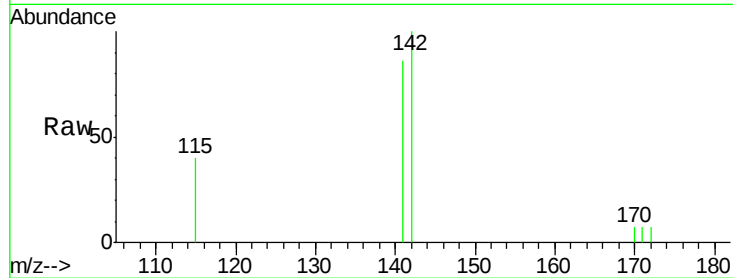
Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

ClientSampleId :

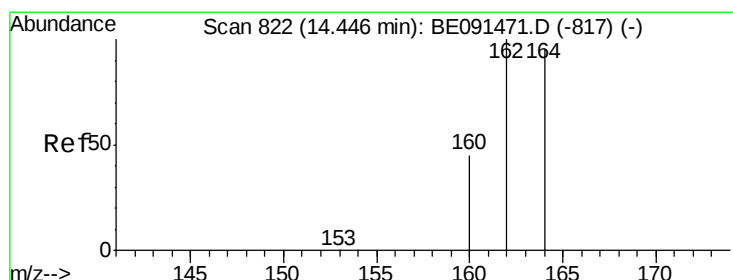
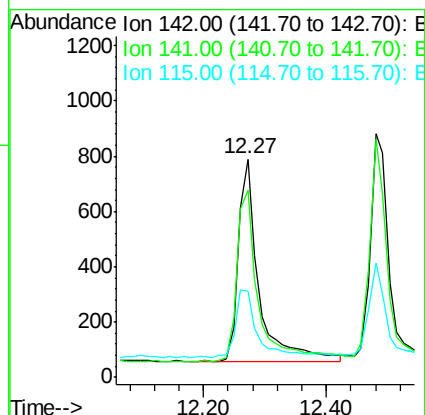
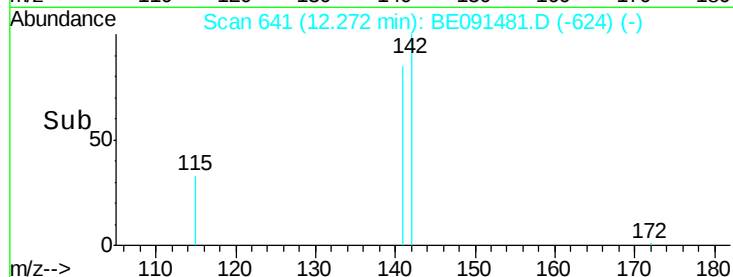
MDL-01-W



Tgt Ion:	142	Resp:	1742
Ion Ratio	Lower	Upper	
142	100		
141	86.1	66.9	100.3
115	39.8	25.1	37.7

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

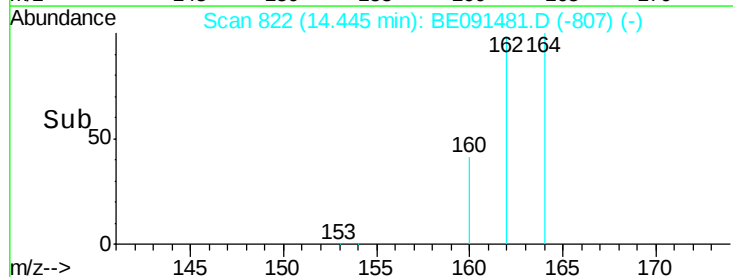
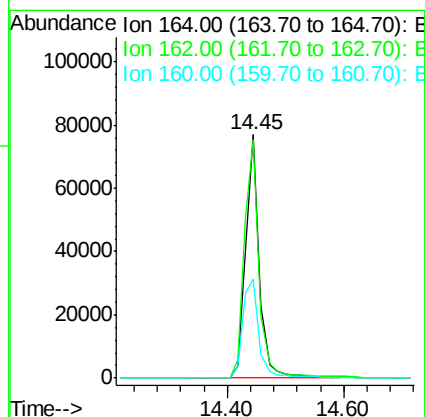
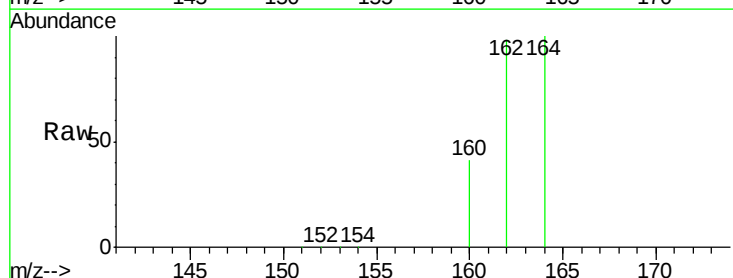
RT: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

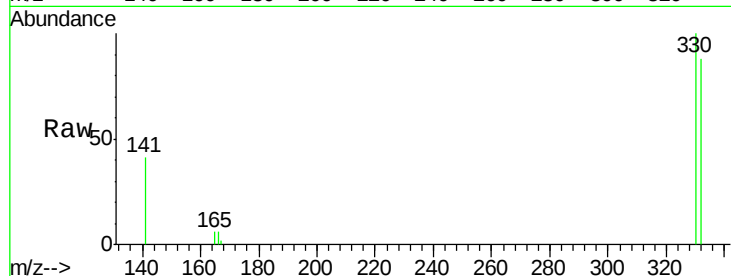
Tgt Ion:	164	Resp:	126014
Ion Ratio	Lower	Upper	
164	100		
162	97.8	84.4	126.6
160	40.6	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.93 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

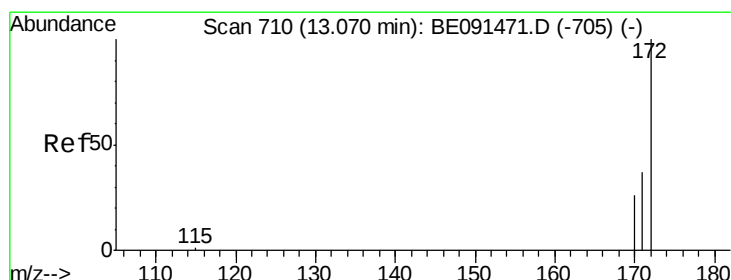
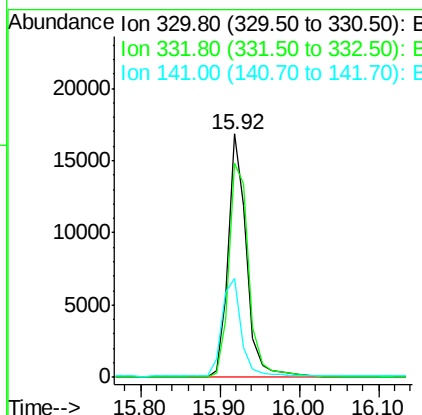
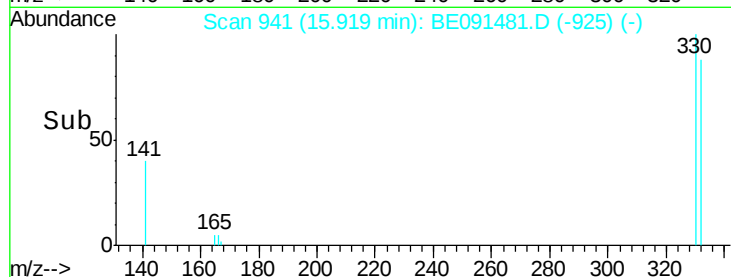
Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W



Tgt Ion: 330 Resp: 32040
 Ion Ratio Lower Upper
 330 100
 332 96.3 79.2 118.8
 141 43.6 28.1 42.1#

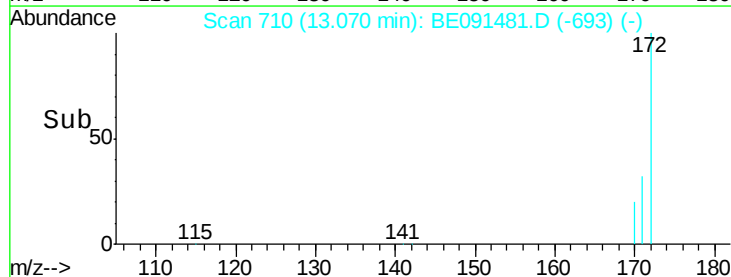
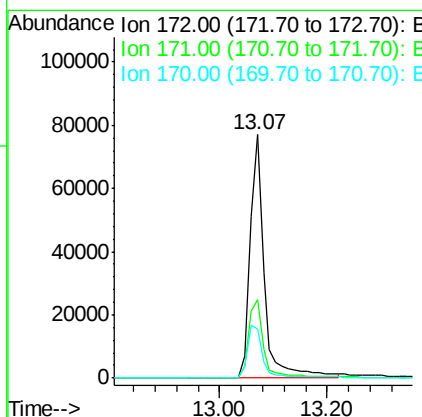
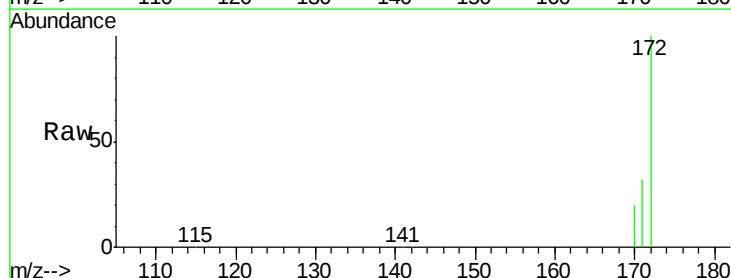
Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:30 PM



#12
 2-Fluorobiphenyl
 Concen: 4.46 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

Tgt Ion: 172 Resp: 141529
 Ion Ratio Lower Upper
 172 100
 171 32.5 29.8 44.8
 170 20.4 21.4 32.2#





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

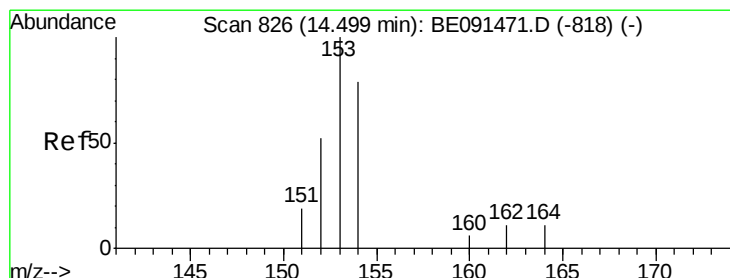
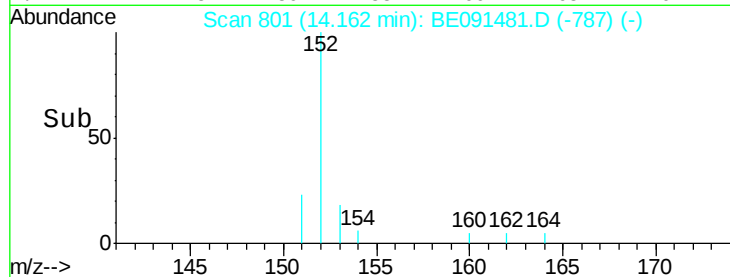
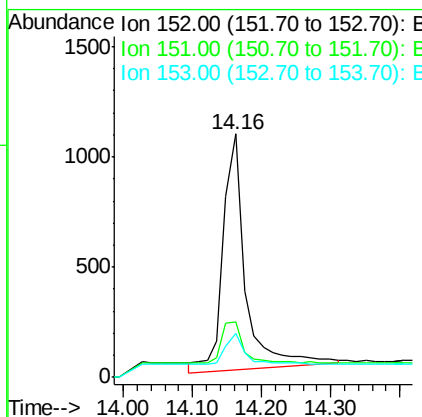
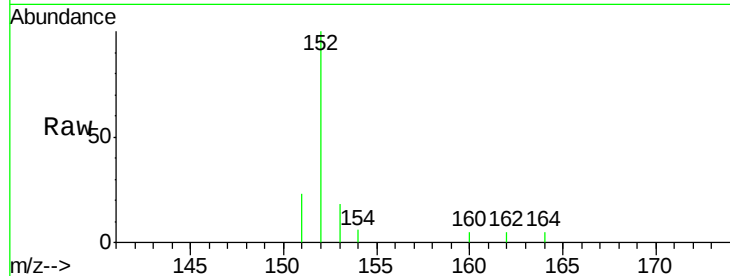
ClientSampleId :

MDL-01-W

Tgt Ion:	152	Resp:	2400
Ion Ratio	Lower	Upper	
152	100		
151	28.7	16.3	24.5#
153	18.1	11.1	16.7#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#14

Acenaphthene

Concen: 0.05 ng

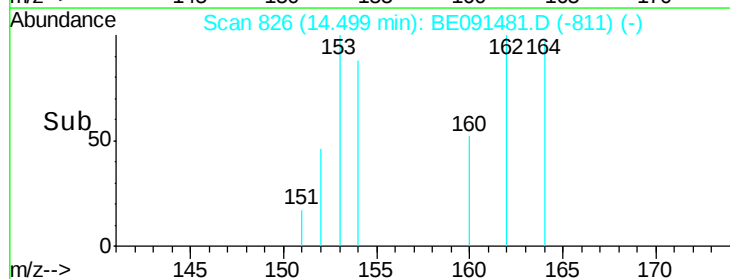
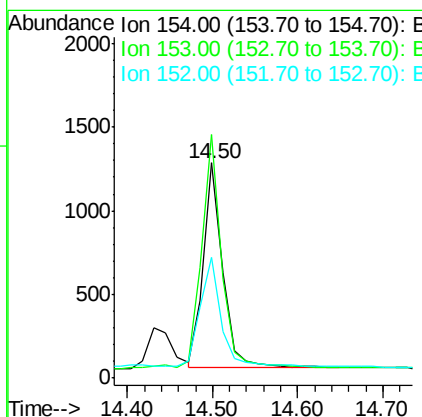
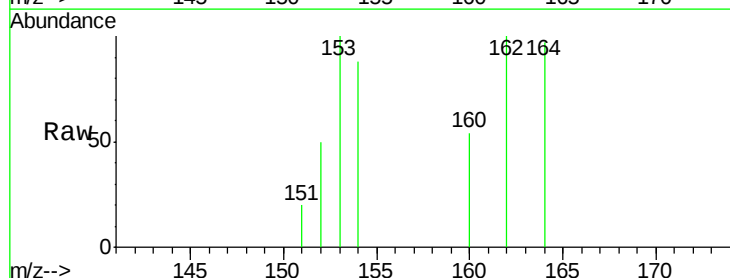
RT: 14.50 min Scan# 826

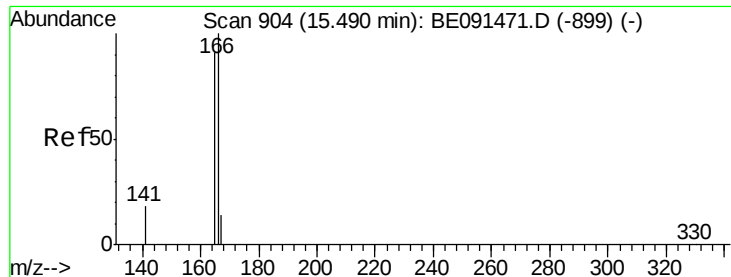
Delta R.T. -0.00 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Tgt Ion:	154	Resp:	1954
Ion Ratio	Lower	Upper	
154	100		
153	118.9	87.3	130.9
152	56.3	42.9	64.3





#15

Fluorene

Concen: 0.05 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

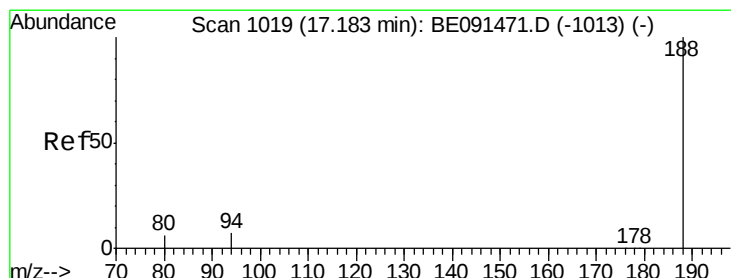
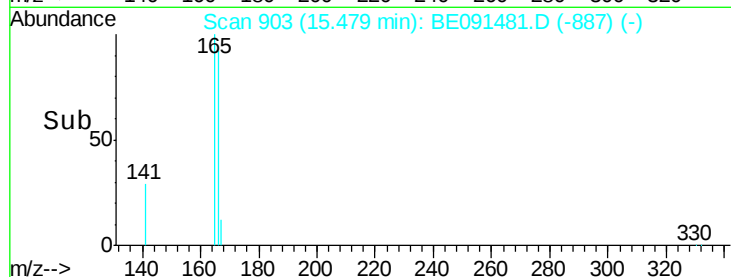
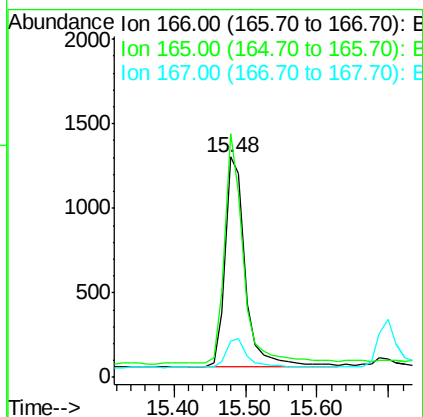
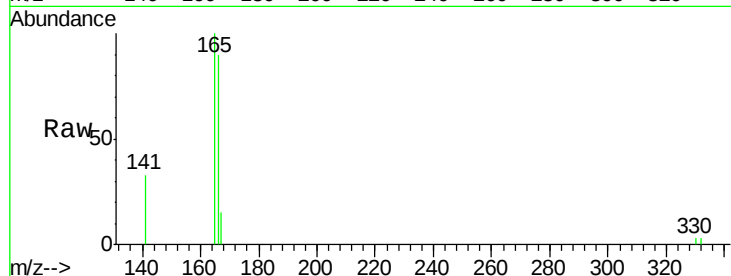
ClientSampleId :

MDL-01-W

Tgt Ion:	166	Resp:	2446
Ion Ratio	Lower	Upper	
166	100		
165	101.6	79.2	118.8
167	14.5	10.8	16.2

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#16

Phenanthrene-d10

Concen: 5.00 ng

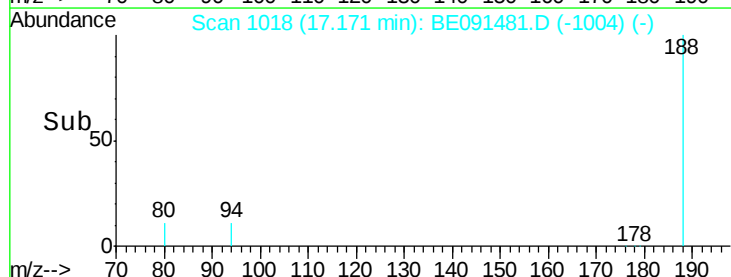
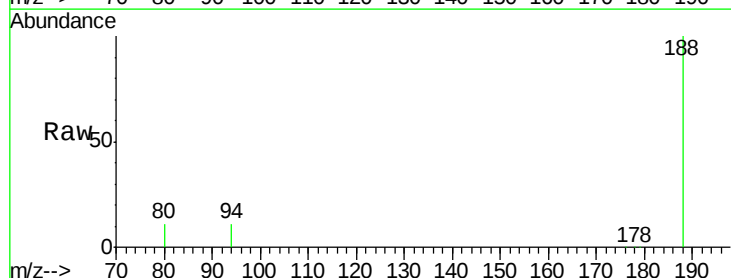
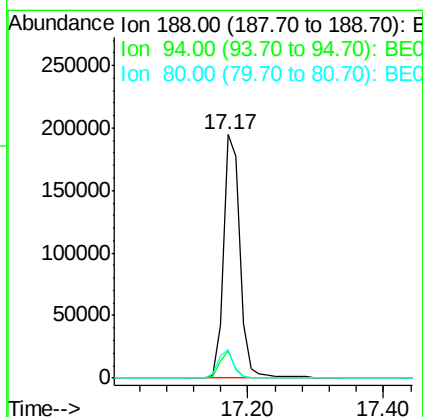
RT: 17.17 min Scan# 1018

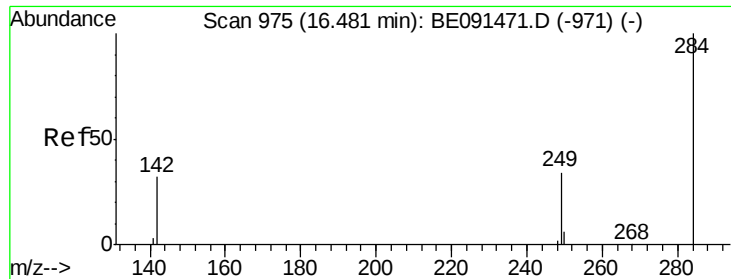
Delta R.T. -0.01 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Tgt Ion:	188	Resp:	334438
Ion Ratio	Lower	Upper	
188	100		
94	11.4	5.4	8.2#
80	11.5	5.0	7.4#





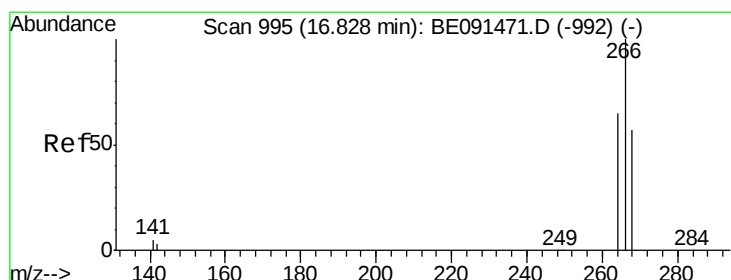
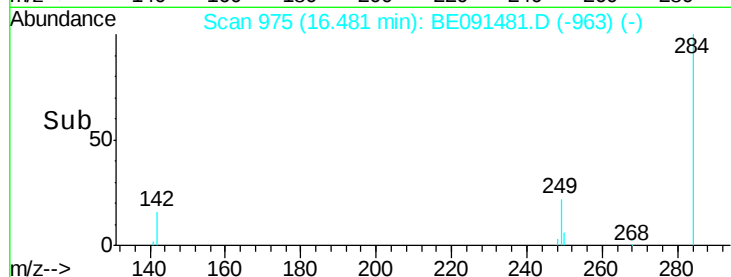
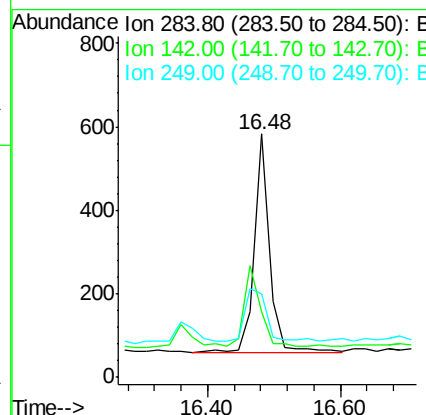
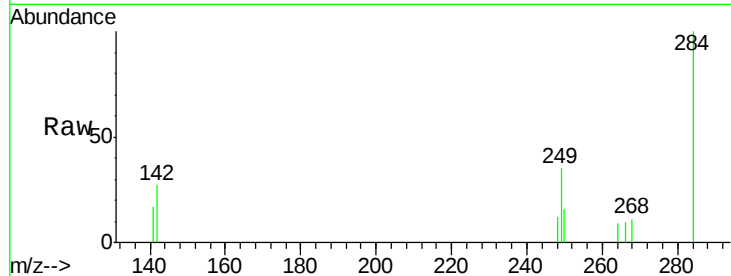
#17
Hexachlorobenzene
Concen: 0.06 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.4	31.0	46.4
249	33.7	25.8	38.8

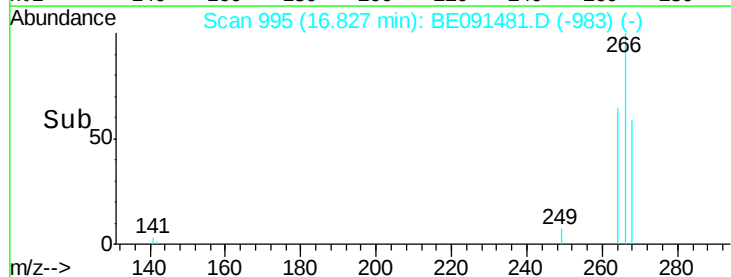
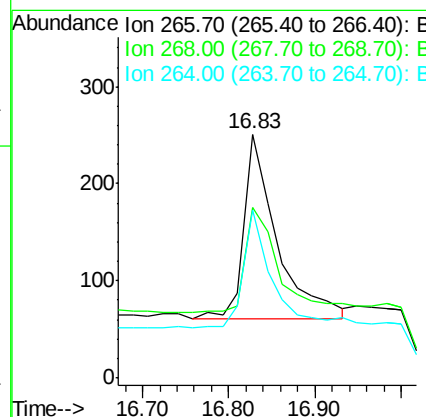
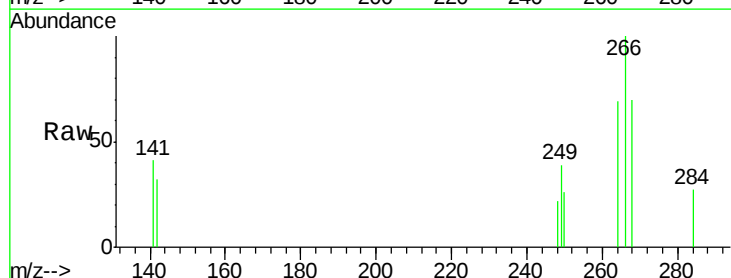
Manual Integrations
APPROVED

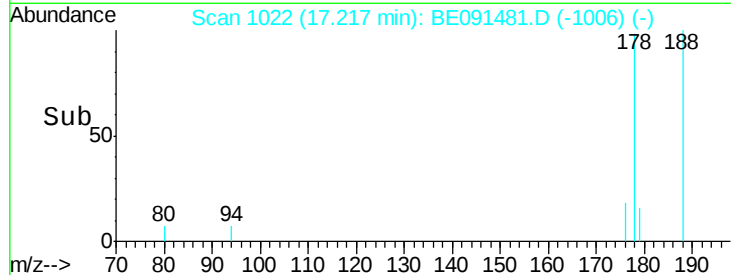
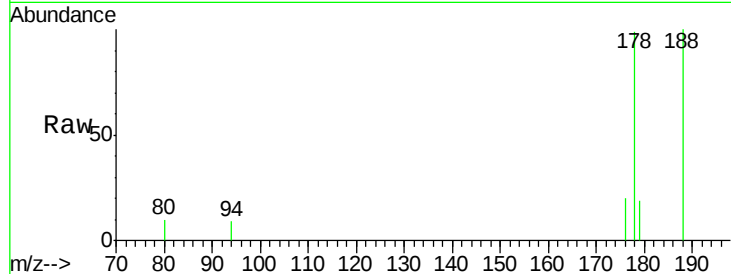
apatel
3/21/2016 5:12:30 PM



#18
Pentachlorophenol
Concen: 0.27 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
266	100		
268	70.1	48.2	72.2
264	68.9	52.1	78.1





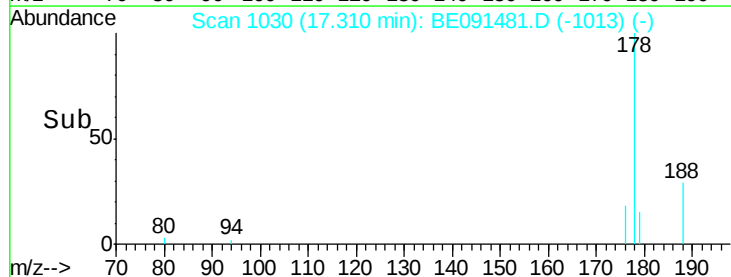
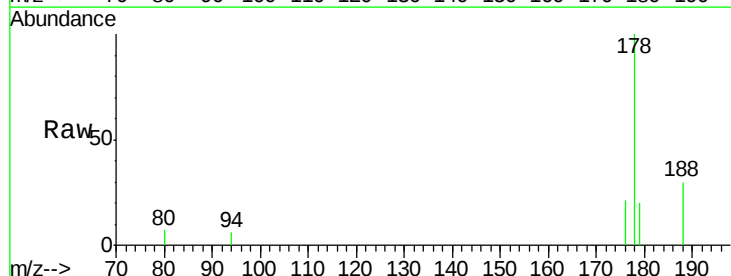
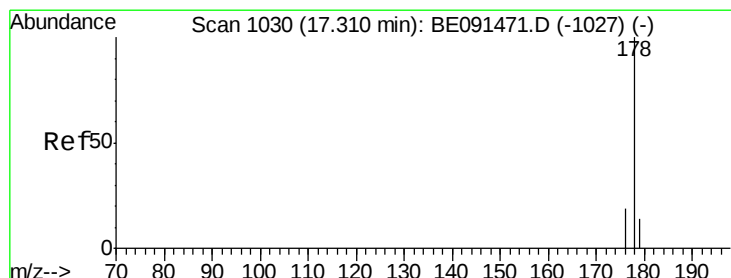
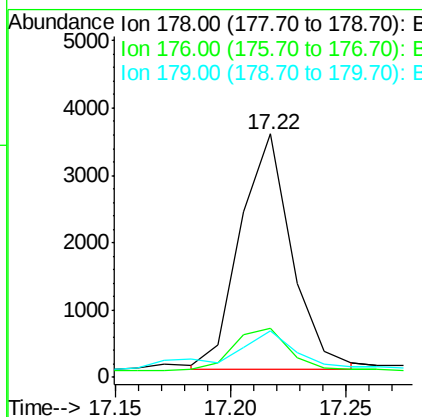
#19
Phenanthrene
Concen: 0.06 ng m
RT: 17.22 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	12.9	15.5	23.3#
179	10.0	13.1	19.7#

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

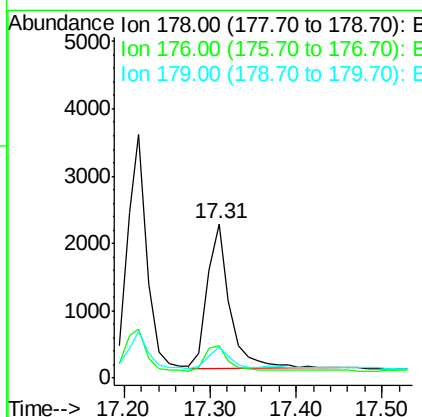
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#20
Anthracene
Concen: 0.05 ng
RT: 17.31 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	14.9	22.3
179	13.9	12.2	18.4





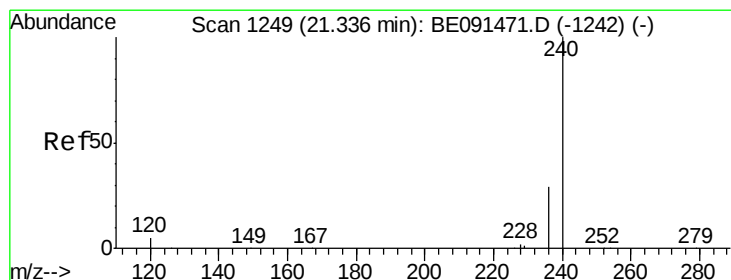
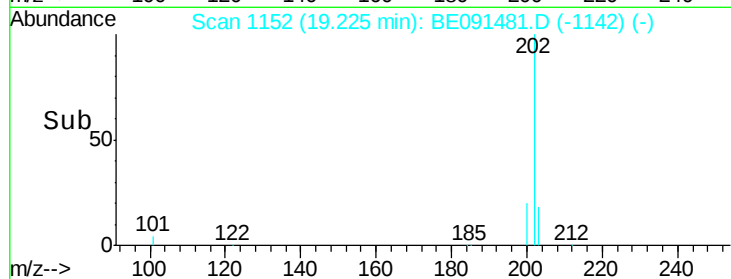
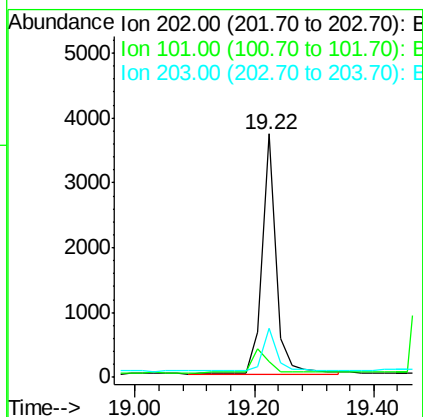
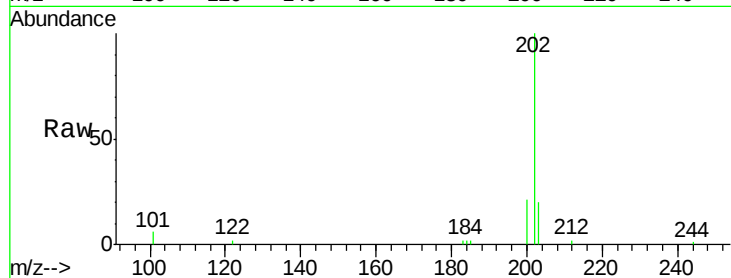
#21
 Fluoranthene
 Concen: 0.06 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	8.3	12.5#
203	18.9	13.9	20.9

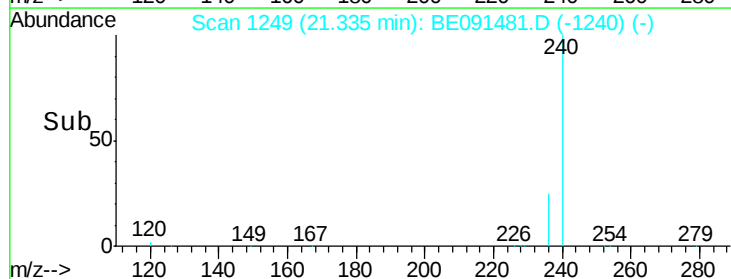
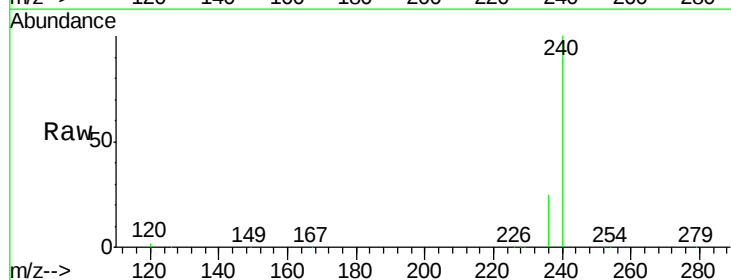
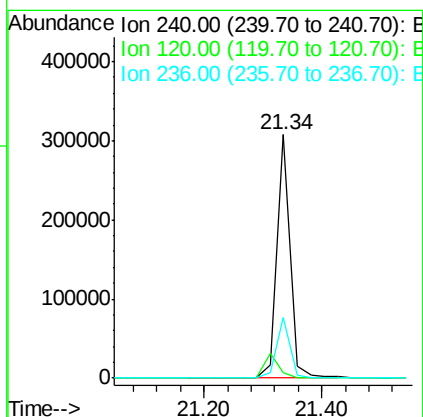
Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:30 PM



#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
240	100		
120	2.1	4.0	6.0#
236	25.1	23.0	34.4





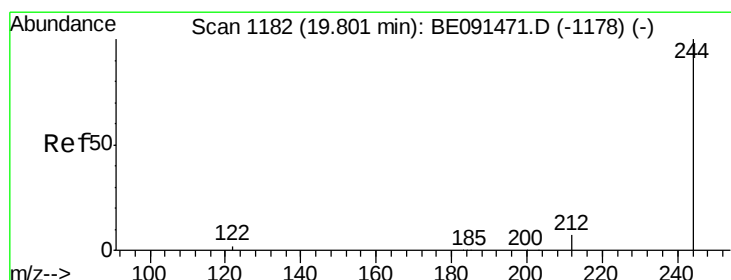
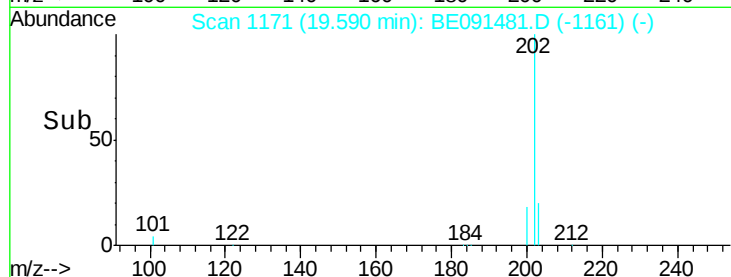
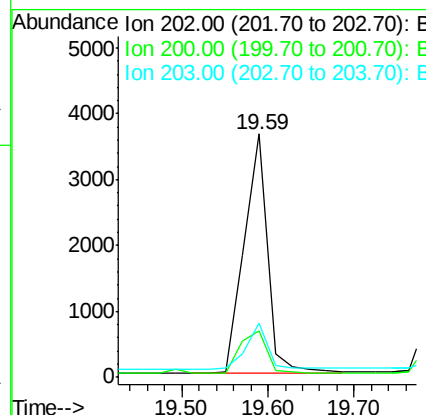
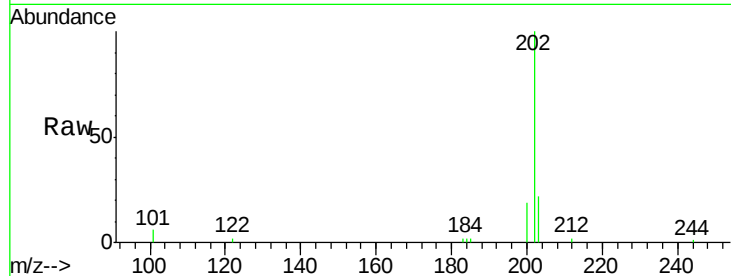
#23
 Pyrene
 Concen: 0.06 ng
 RT: 19.59 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.4	24.6
203	19.3	14.6	21.8

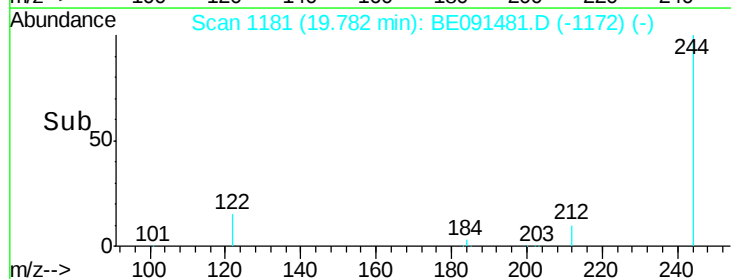
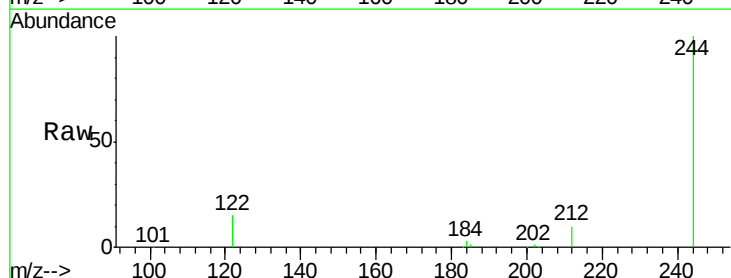
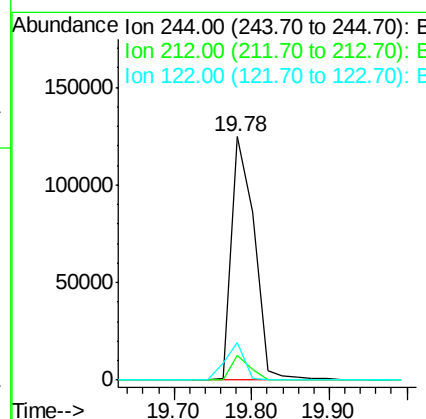
Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:30 PM



#24
 Terphenyl-d14
 Concen: 4.43 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BE091481.D
 Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	5.8	8.8#
122	15.2	1.8	2.8#





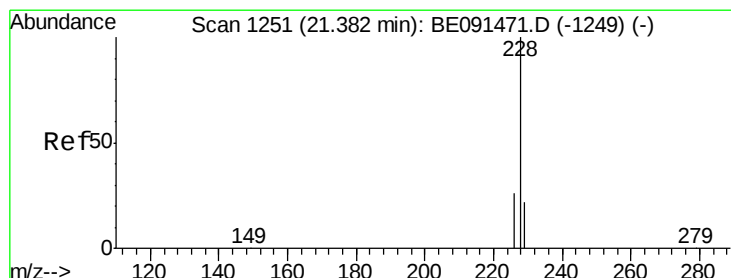
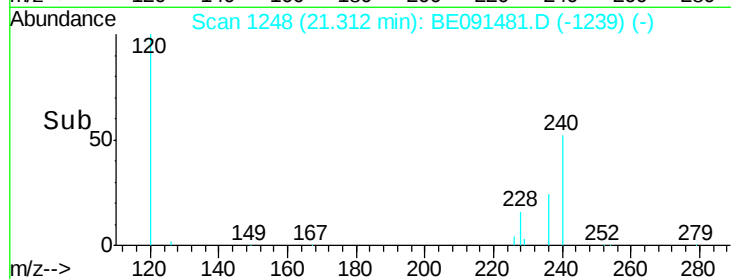
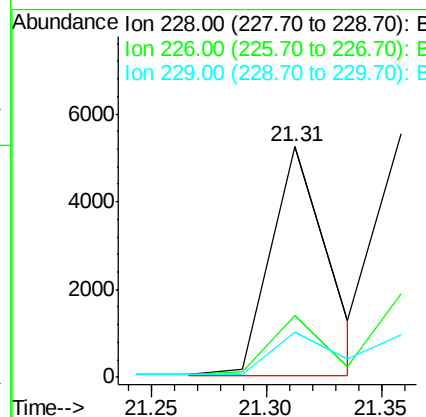
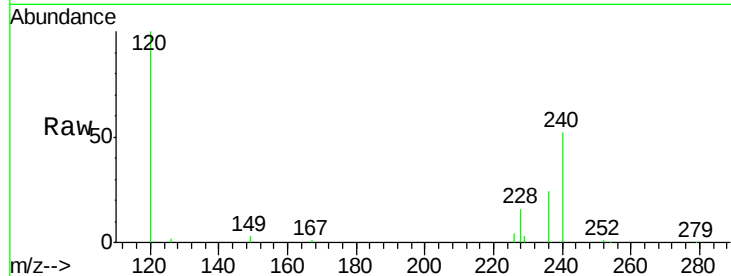
#25
Benzo(a)anthracene
Concen: 0.07 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	24.0	36.0
229	19.8	13.8	20.6

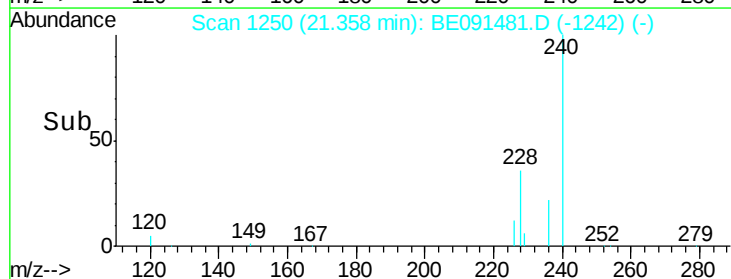
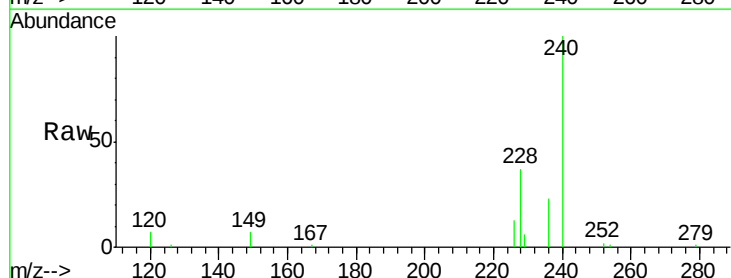
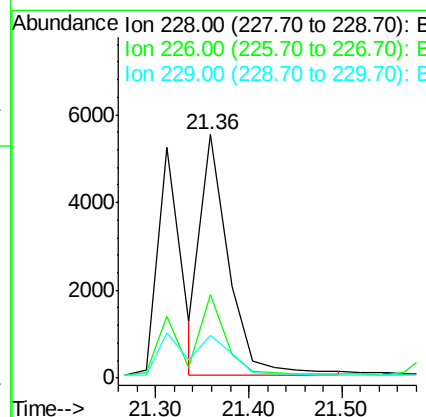
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM



#26
Chrysene
Concen: 0.09 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.5	18.9	28.3#
229	17.3	19.1	28.7#





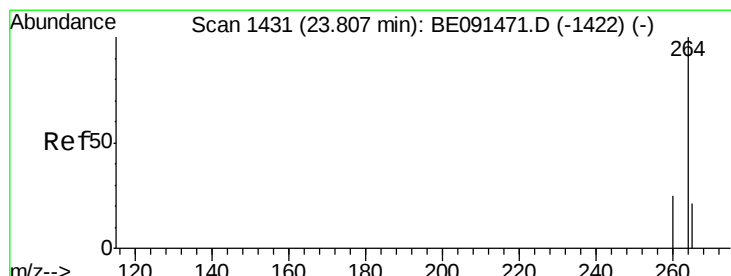
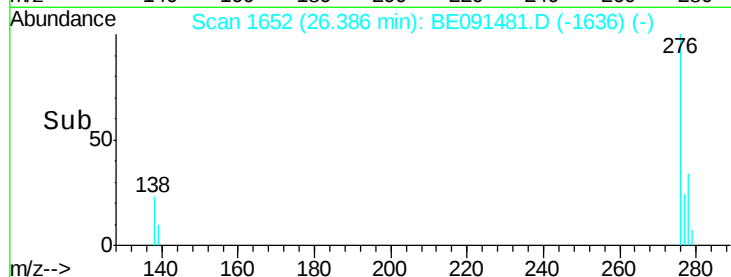
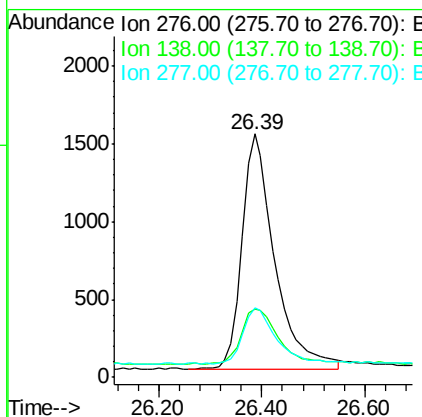
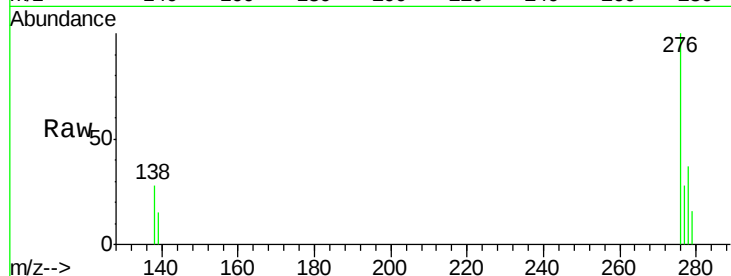
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.05 ng
RT: 26.39 min Scan# 1652
Delta R.T. -0.01 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	6617		
138	27.1	20.2	30.4	
277	24.7	19.8	29.8	

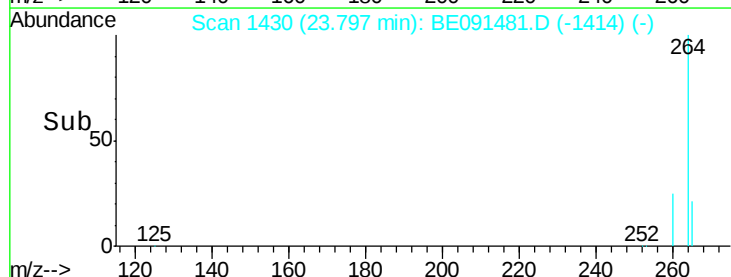
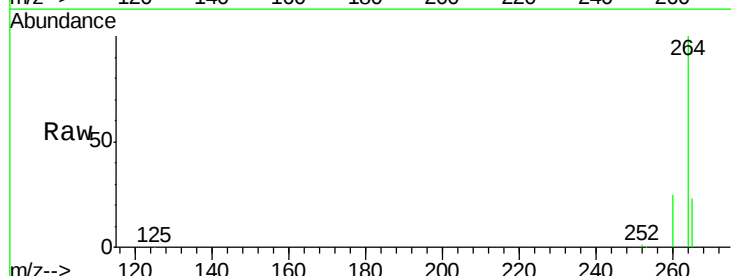
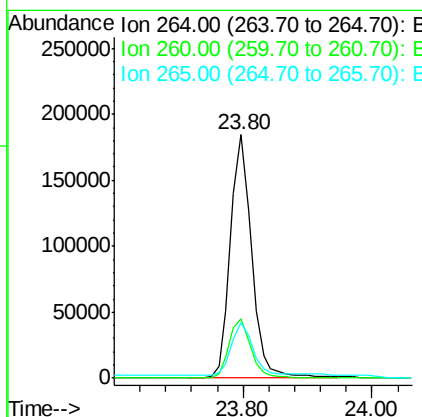
Manual Integrations
APPROVED

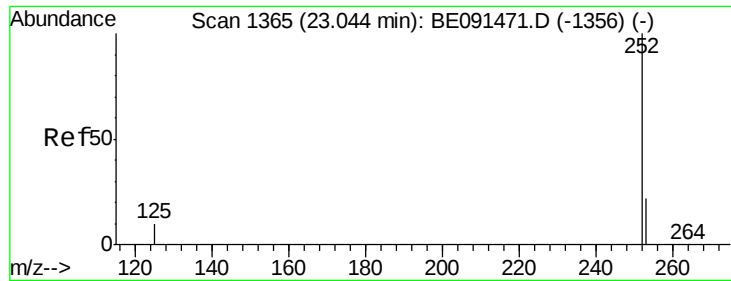
apatel
3/21/2016 5:12:30 PM



#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	421430		
260	24.6	20.1	30.1	
265	22.8	18.3	27.5	





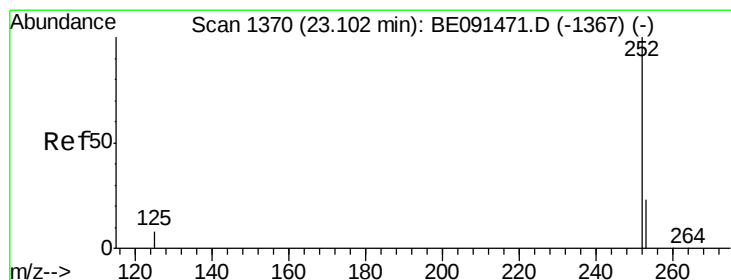
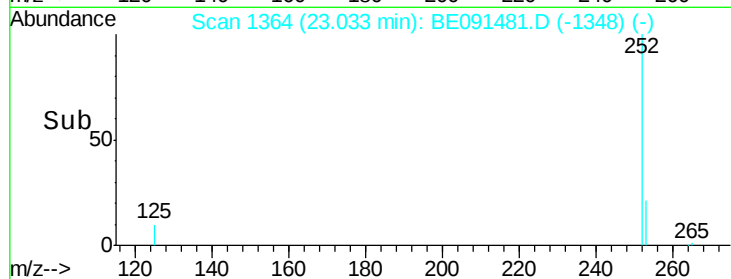
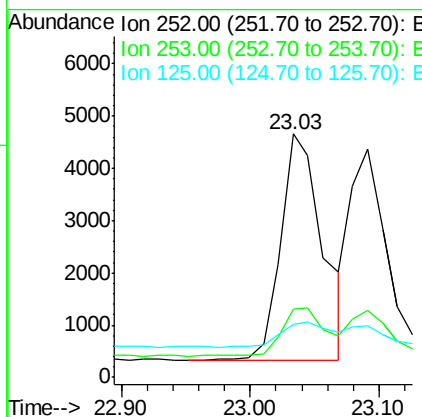
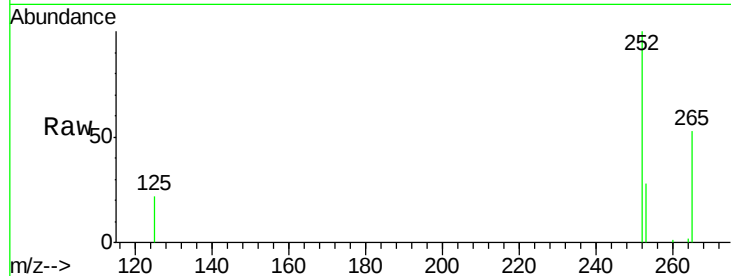
#29
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.9	18.7	28.1
125	21.9	9.8	14.6

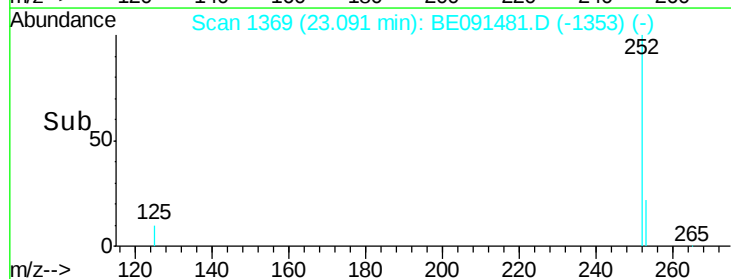
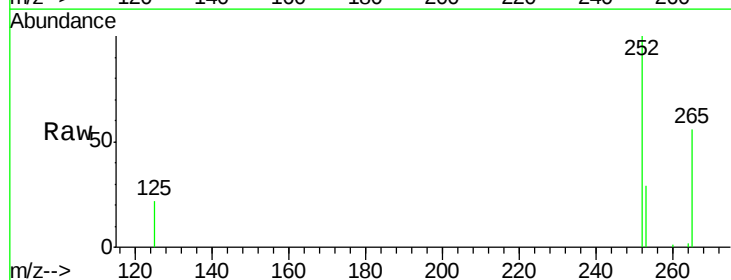
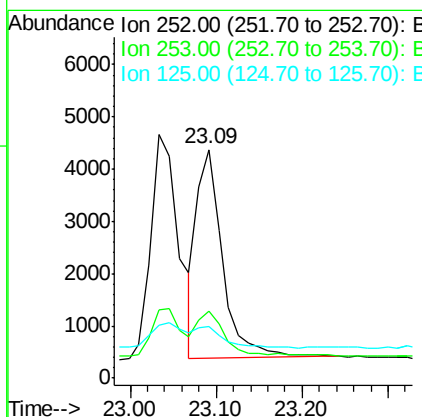
Manual Integrations
APPROVED

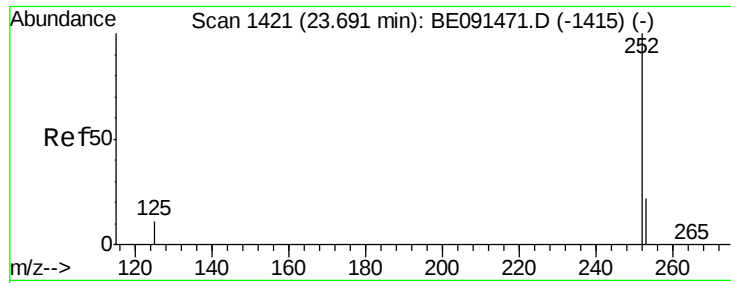
apatel
3/21/2016 5:12:30 PM



#30
Benzo(k)fluoranthene
Concen: 0.06 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.5	20.2	30.4
125	22.5	9.4	14.2





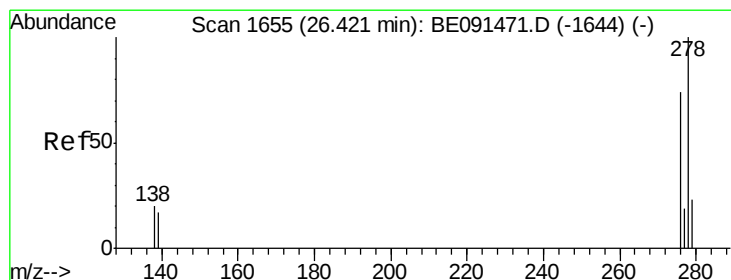
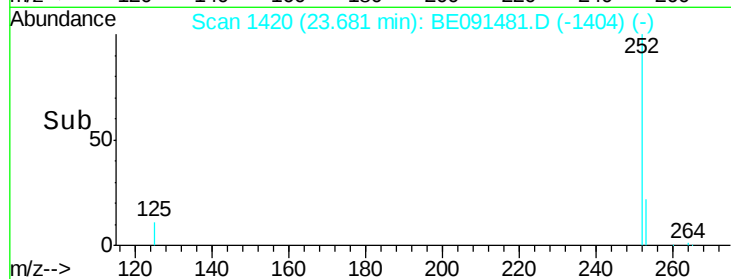
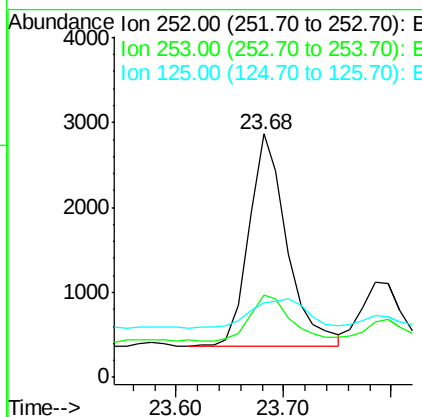
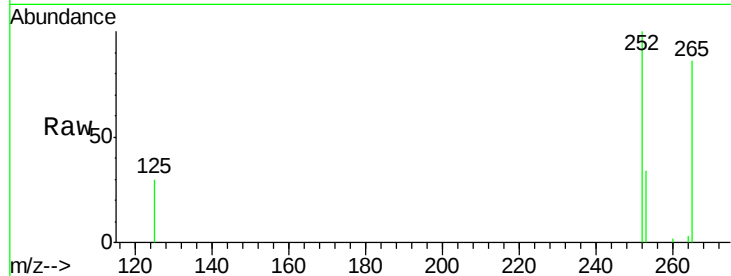
#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Instrument :
BNA_E
ClientSampleId :
MDL-01-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.8	19.4	29.0#
125	30.5	11.4	17.2#

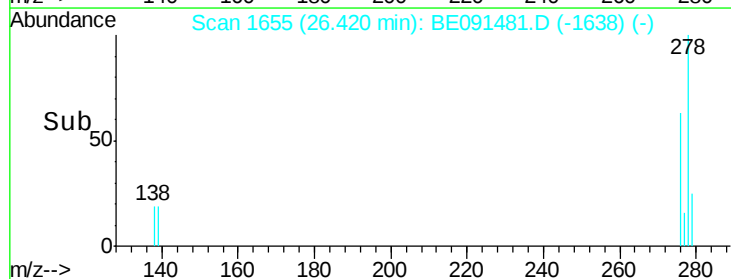
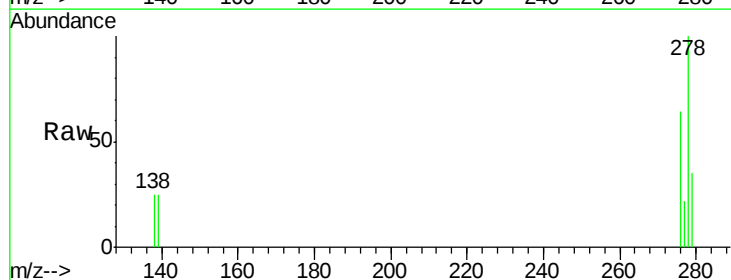
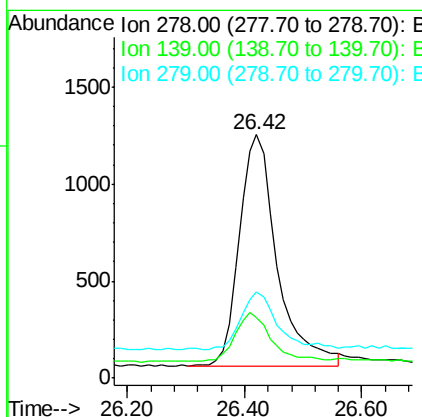
Manual Integrations
APPROVED

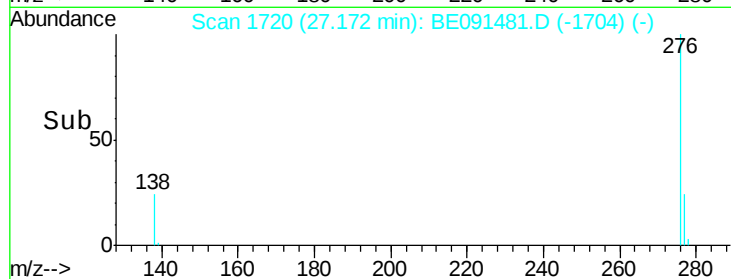
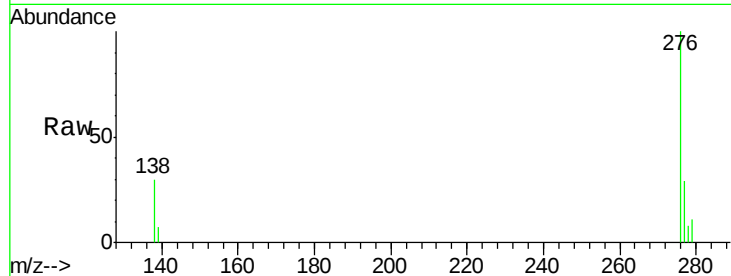
apatel
3/21/2016 5:12:30 PM



#32
Dibenzo(a,h)anthracene
Concen: 0.05 ng
RT: 26.42 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BE091481.D
Acq: 18 Mar 2016 12:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.0	14.2	21.4#
279	35.1	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.17 min Scan# 1720

Delta R.T. -0.01 min

Lab File: BE091481.D

Acq: 18 Mar 2016 12:47

Instrument :

BNA_E

ClientSampleId :

MDL-01-W

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		5984		
277	28.7	19.4	29.2		
138	29.6	18.2	27.4		

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:30 PM

