

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE091499.D
 Acq On : 21 Mar 2016 15:02
 Operator : UM/SJ
 Sample : MDL-04-W
 Misc : 0.08PPM
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Manual Integrations
 APPROVED

UMANGI
 3/22/2016 11:28:23 AM

Quant Time: Mar 21 15:42:04 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	55828	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	244202	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	140928	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	366455	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	459845	5.00	ng	0.00
28) Perylene-d12	23.80	264	414704	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	88630	6.91	ng	0.00
5) Phenol-d6	6.99	99	118191	7.06	ng	0.00
7) Nitrobenzene-d5	8.98	82	42344	3.25	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	29790	5.80	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	149631	4.22	ng	0.00
24) Terphenyl-d14	19.78	244	240525	4.35	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	841	0.12	ng	# 61
3) n-Nitrosodimethylamine	3.70	42	321	0.03	ng	# 75
8) Naphthalene	10.65	128	3061	0.05	ng	# 94
9) 2-Methylnaphthalene	12.27	142	1717	0.04	ng	# 96
13) Acenaphthylene	14.16	152	2077m	0.16	ng	
14) Acenaphthene	14.50	154	1952	0.04	ng	90
15) Fluorene	15.48	166	2462	0.04	ng	99
17) Hexachlorobenzene	16.48	284	792	0.05	ng	90
18) Pentachlorophenol	16.83	266	346	0.24	ng	# 88
19) Phenanthrene	17.22	178	5566m	0.05	ng	
20) Anthracene	17.31	178	3914	0.04	ng	99
21) Fluoranthene	19.22	202	4996	0.04	ng	95
23) Pyrene	19.59	202	5503	0.05	ng	98
25) Benzo(a)anthracene	21.31	228	7522m	0.06	ng	
26) Chrysene	21.36	228	9300m	0.07	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	5872	0.04	ng	97
29) Benzo(b)fluoranthene	23.03	252	7974	0.06	ng	# 86
30) Benzo(k)fluoranthene	23.09	252	6601	0.05	ng	# 87
31) Benzo(a)pyrene	23.68	252	5027	0.04	ng	# 75
32) Dibenzo(a,h)anthracene	26.42	278	4740	0.04	ng	# 85
33) Benzo(g,h,i)perylene	27.17	276	5255	0.04	ng	92

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

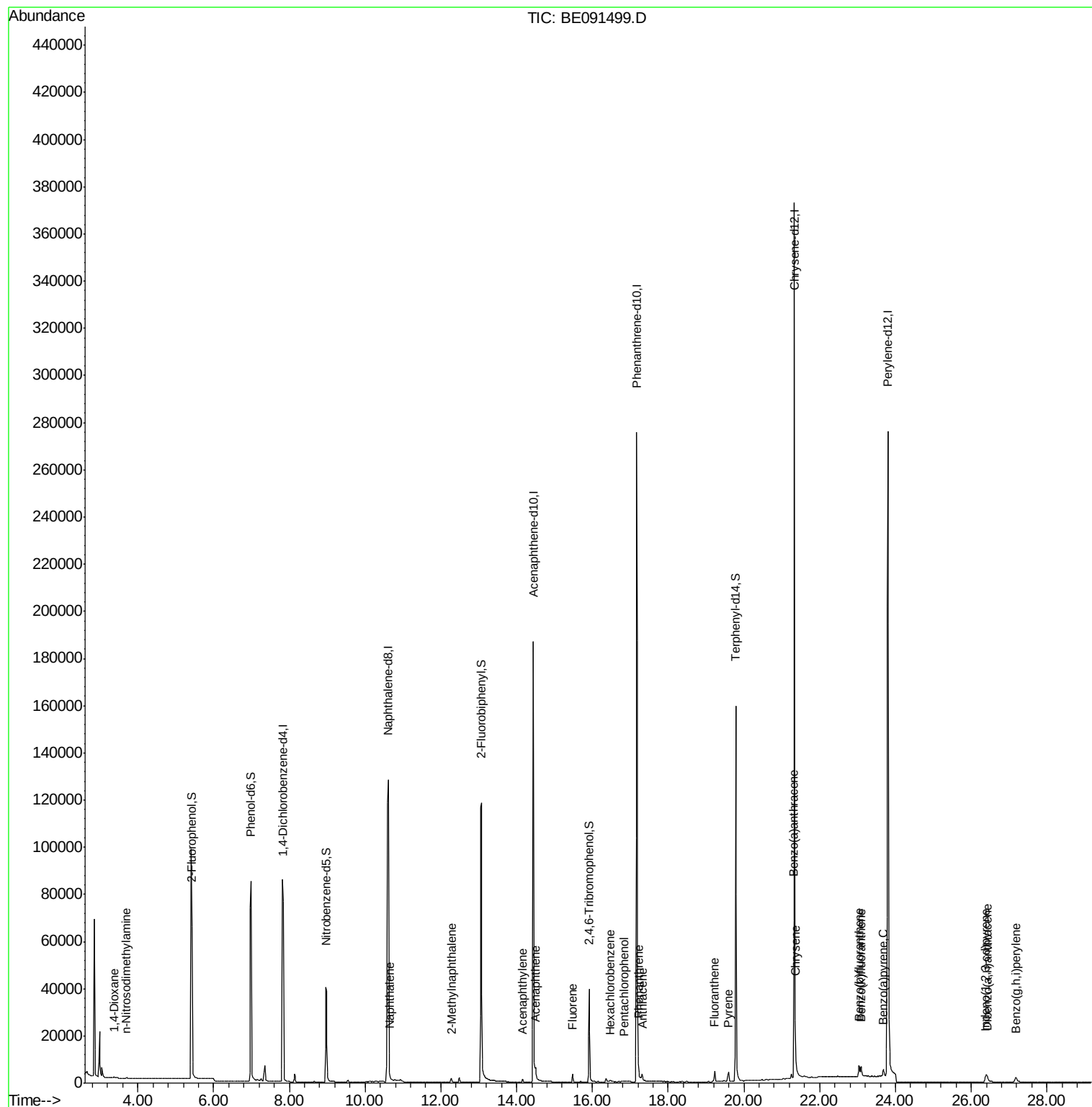
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
Data File : BE091499.D
Acq On : 21 Mar 2016 15:02
Operator : UM/SJ
Sample : MDL-04-W
Misc : 0.08PPM
ALS Vial : 14 Sample Multiplier: 1

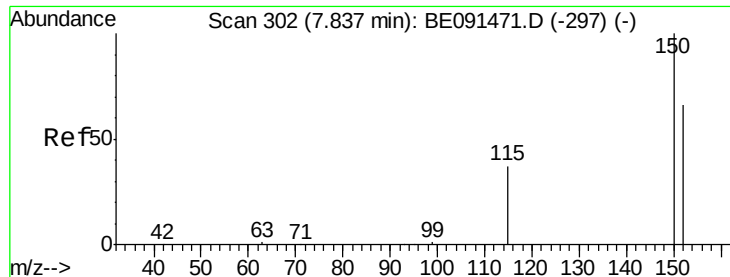
Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM

Quant Time: Mar 21 15:42:04 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: BE091499.D

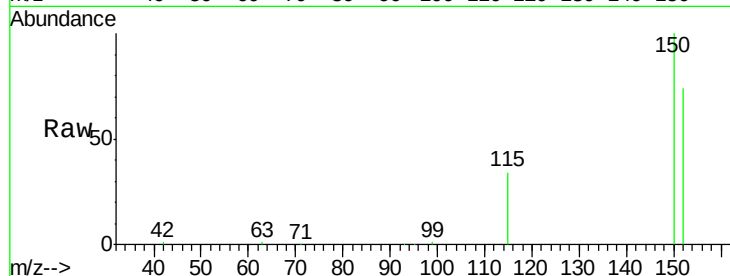
Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

ClientSampled :

MDL-04-W



Tgt Ion: 152 Resp: 55828

Ion Ratio Lower Upper

152 100

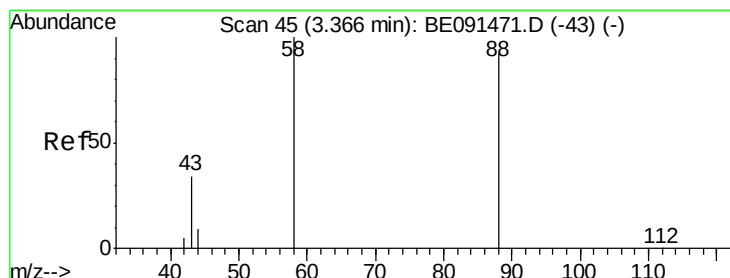
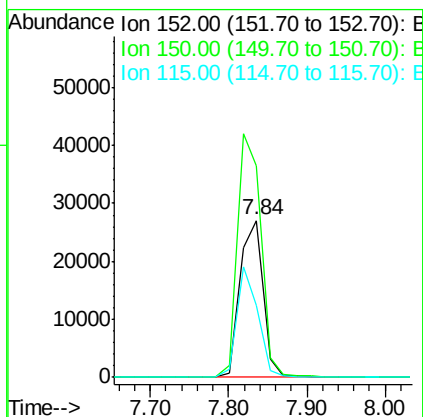
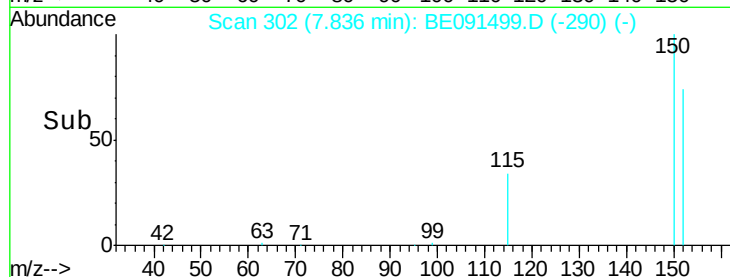
150 135.1 122.2 183.2

115 46.2 45.9 68.9

Manual Integrations
APPROVED

UMANGI

3/22/2016 11:28:23 AM



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

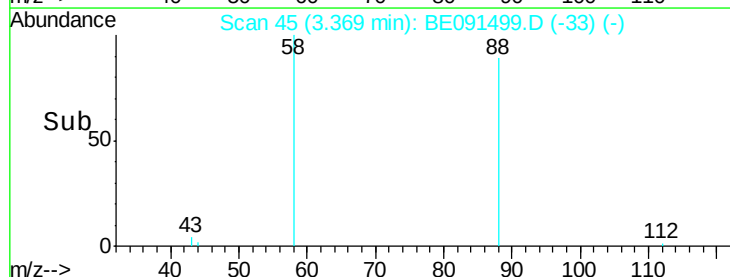
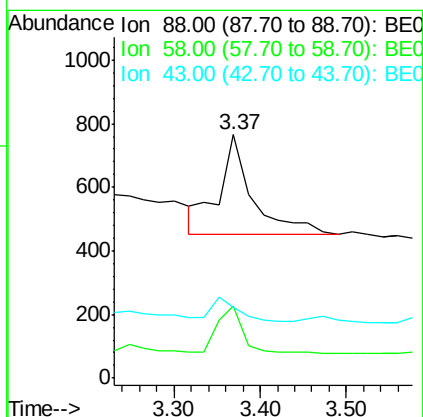
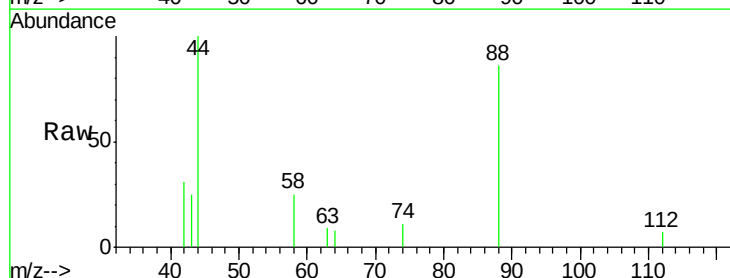
Tgt Ion: 88 Resp: 841

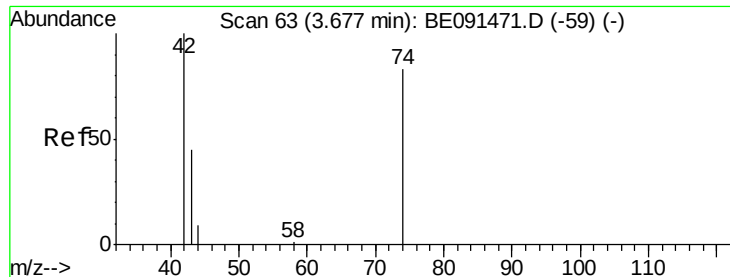
Ion Ratio Lower Upper

88 100

58 36.0 61.0 91.6#

43 20.0 25.4 38.2#





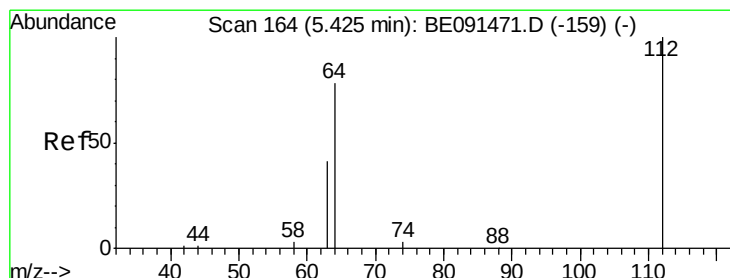
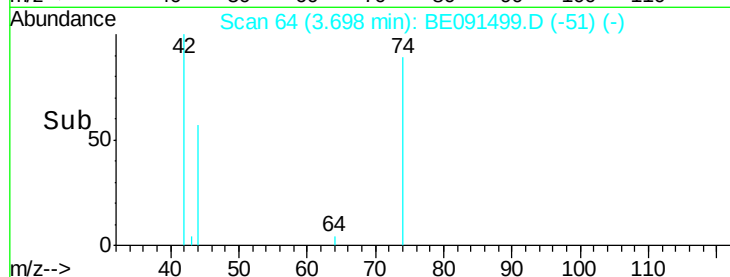
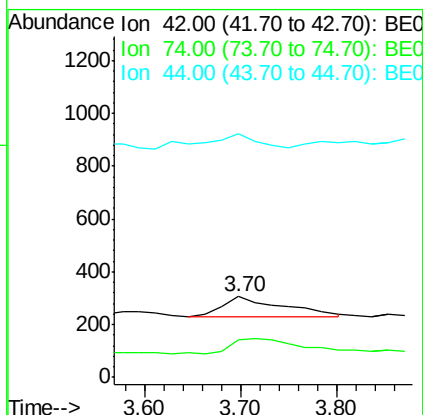
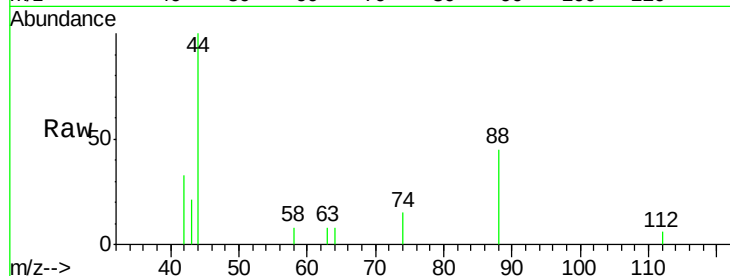
#3
n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion: 42 Resp: 321
Ion Ratio Lower Upper
42 100
74 91.9 84.3 126.5
44 68.5 6.7 10.1#

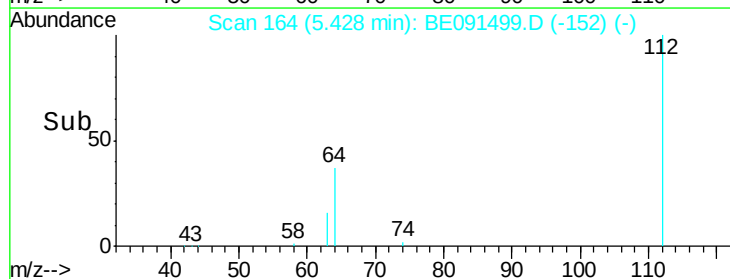
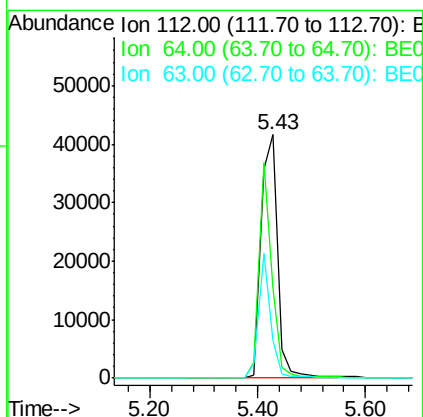
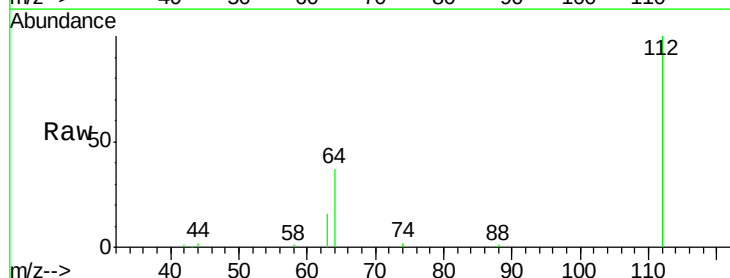
Manual Integrations
APPROVED

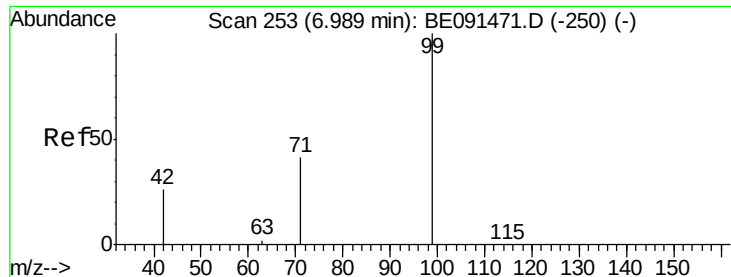
UMANGI
3/22/2016 11:28:23 AM



#4
2-Fluorophenol
Concen: 6.91 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion: 112 Resp: 88630
Ion Ratio Lower Upper
112 100
64 67.9 53.3 79.9
63 37.0 29.8 44.8





#5

Phenol-d6

Concen: 7.06 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

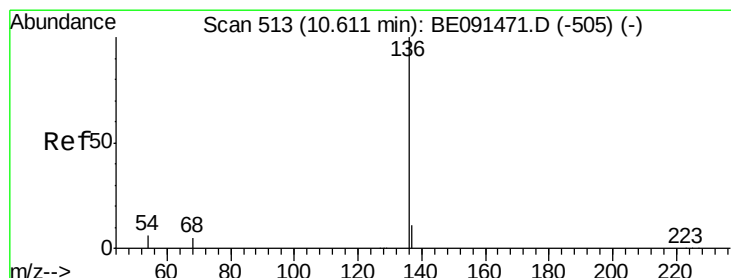
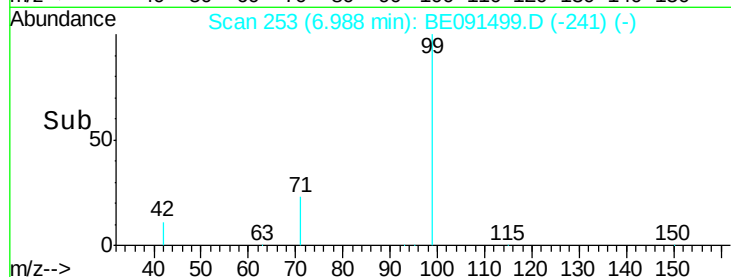
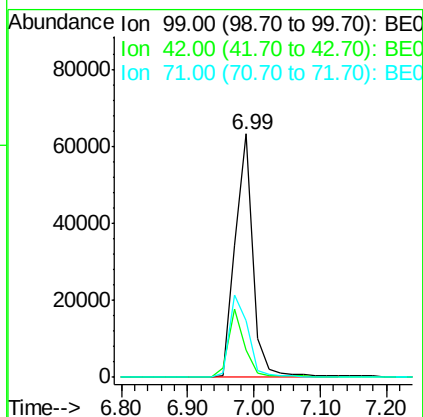
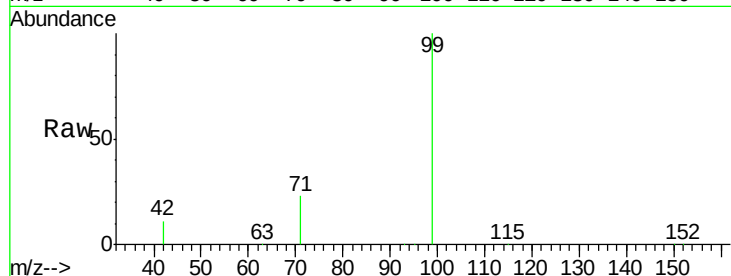
ClientSampleId :

MDL-04-W

Tgt Ion:	99	Resp:	118191
Ion Ratio		Lower	Upper
99	100		
42	25.3	20.6	30.8
71	35.9	29.0	43.4

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#6

Naphthalene-d8

Concen: 5.00 ng

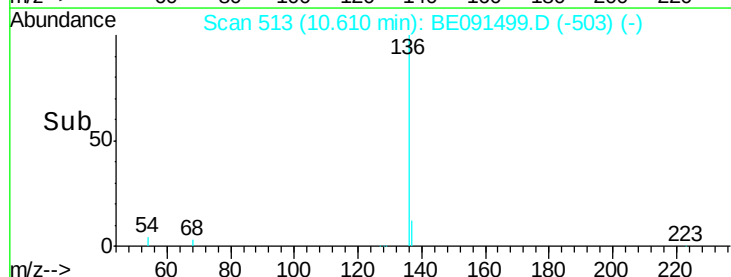
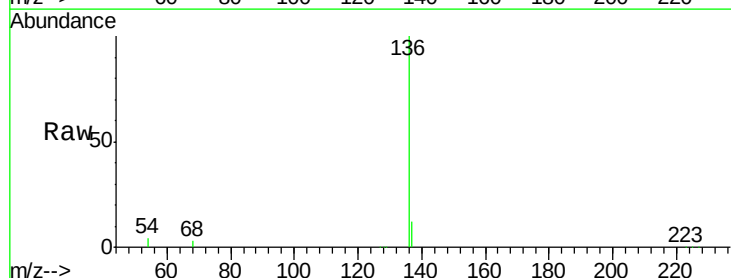
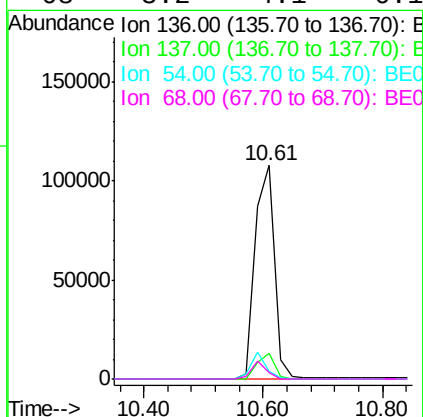
RT: 10.61 min Scan# 513

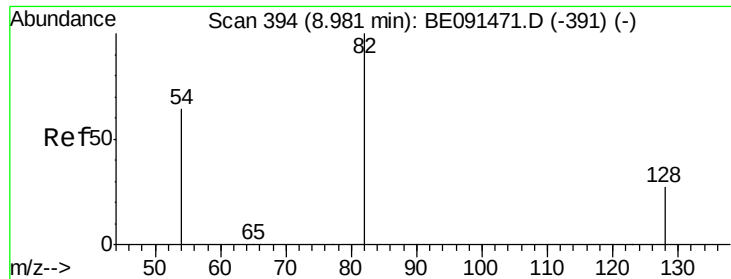
Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	136	Resp:	244202
Ion Ratio		Lower	Upper
136	100		
137	12.0	8.8	13.2
54	3.9	5.2	7.8#
68	3.2	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.25 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

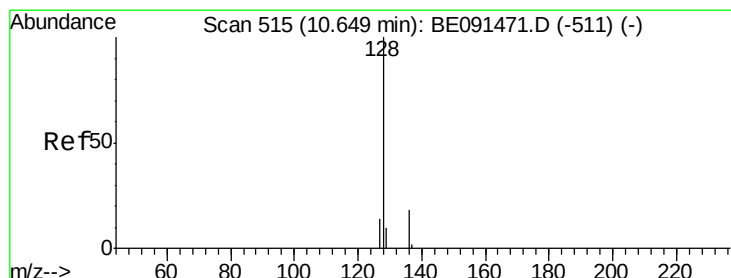
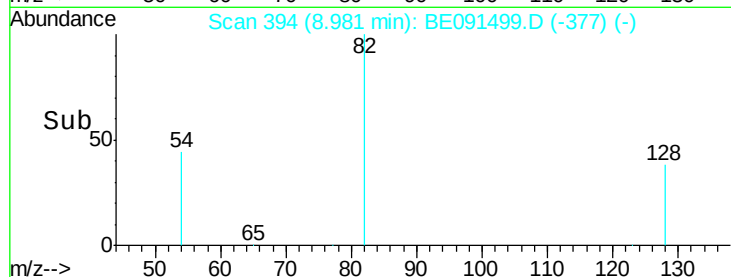
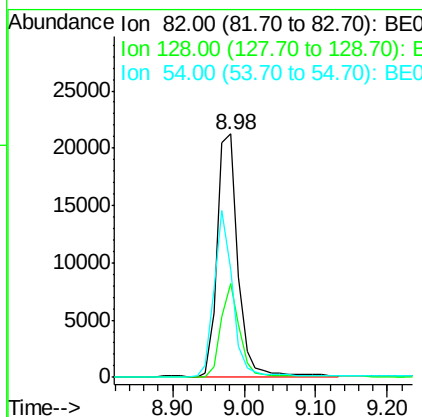
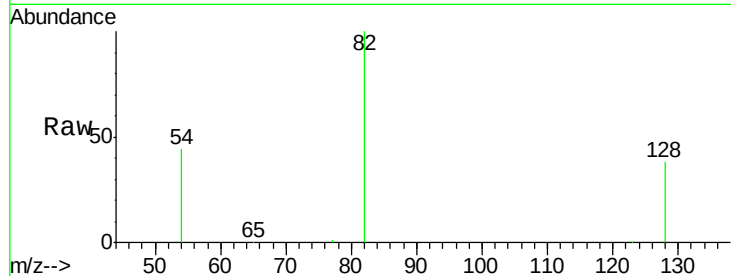
ClientSampleId :

MDL-04-W

Tgt Ion:	82	Resp:	42344
Ion Ratio	Lower	Upper	
82	100		
128	38.4	23.5	35.3#
54	44.5	52.4	78.6#

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#8

Naphthalene

Concen: 0.05 ng

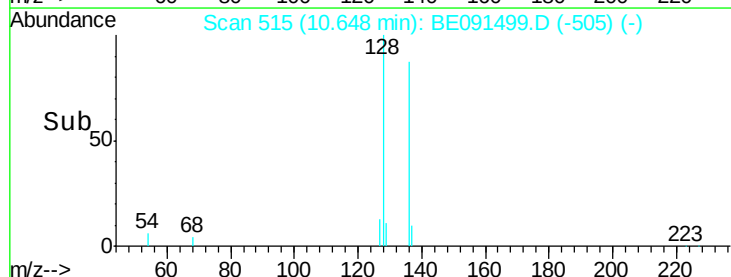
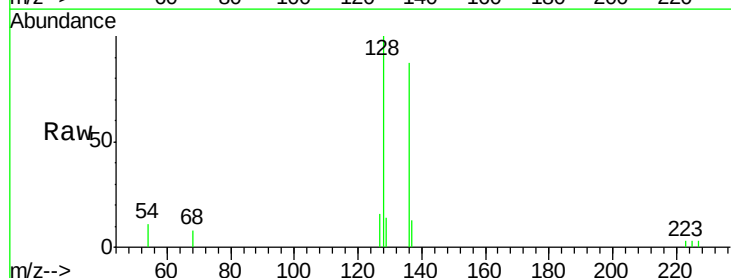
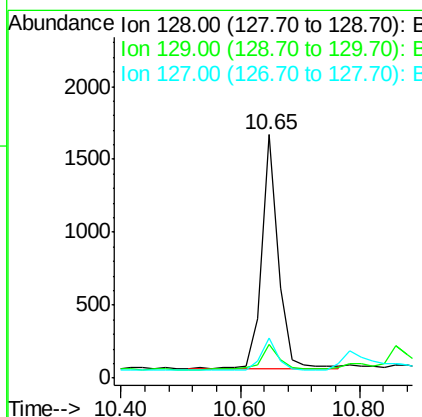
RT: 10.65 min Scan# 515

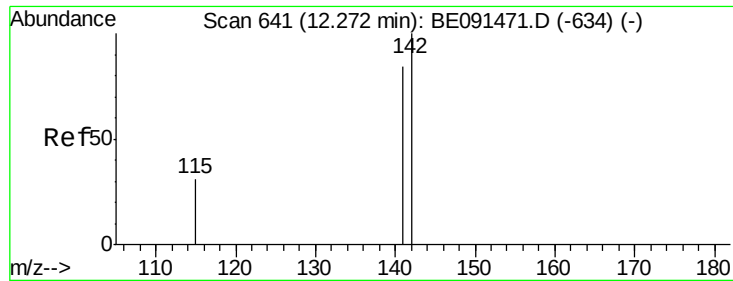
Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	128	Resp:	3061
Ion Ratio	Lower	Upper	
128	100		
129	14.1	8.2	12.2#
127	16.3	11.8	17.8





#9

2-Methylnaphthalene

Concen: 0.04 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091499.D

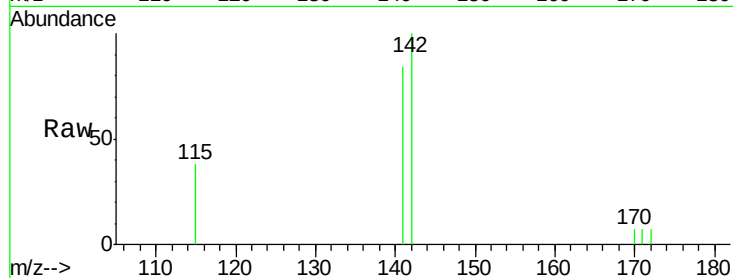
Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

ClientSampleId :

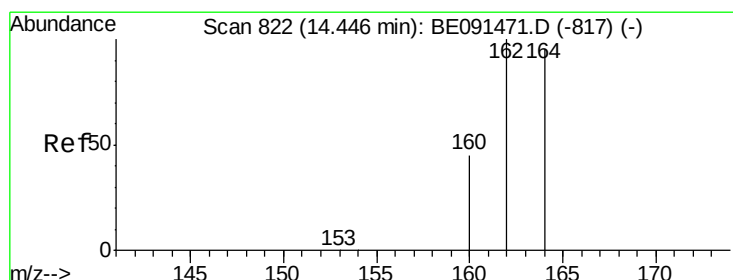
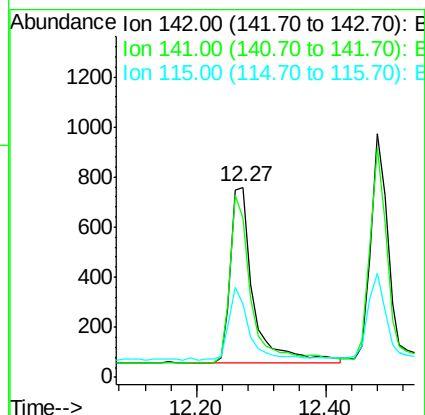
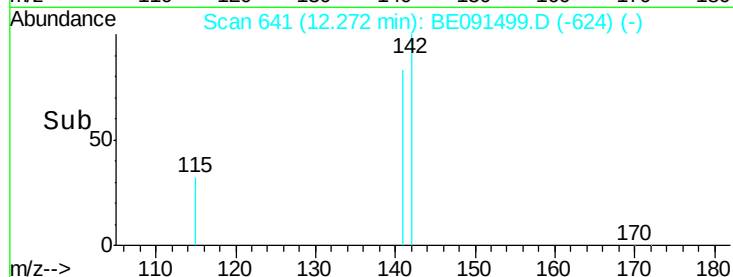
MDL-04-W



Tgt Ion:	142	Resp:	1717
Ion Ratio	Lower	Upper	
142	100		
141	83.9	66.9	100.3
115	38.5	25.1	37.7#

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#10

Acenaphthene-d10

Concen: 5.00 ng

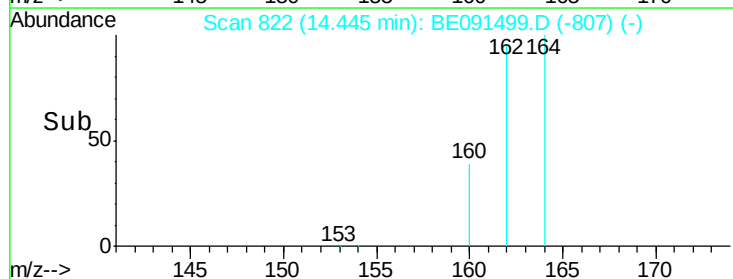
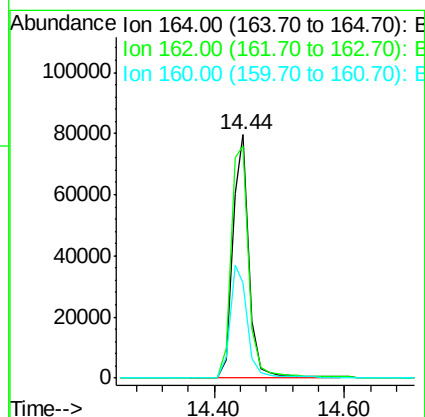
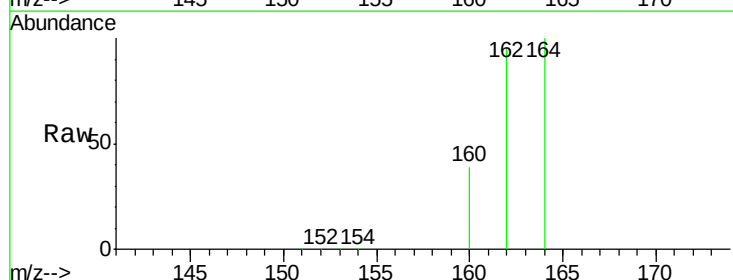
RT: 14.44 min Scan# 822

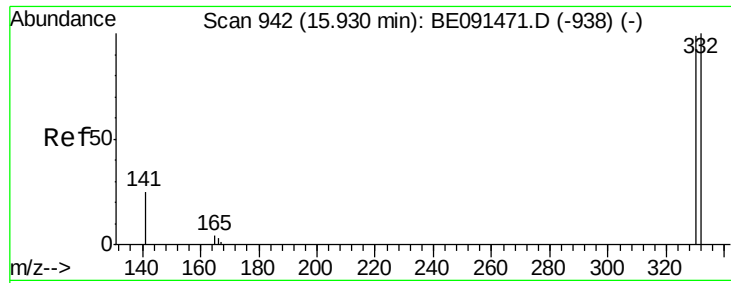
Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	164	Resp:	140928
Ion Ratio	Lower	Upper	
164	100		
162	95.4	84.4	126.6
160	39.0	37.7	56.5





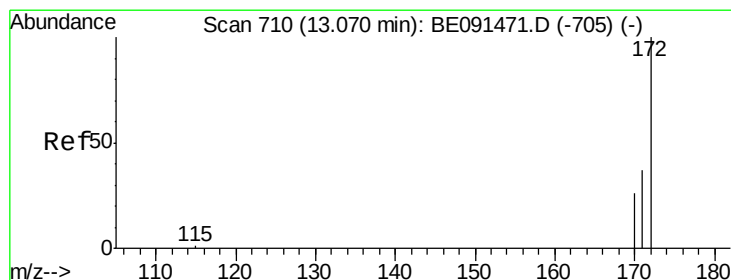
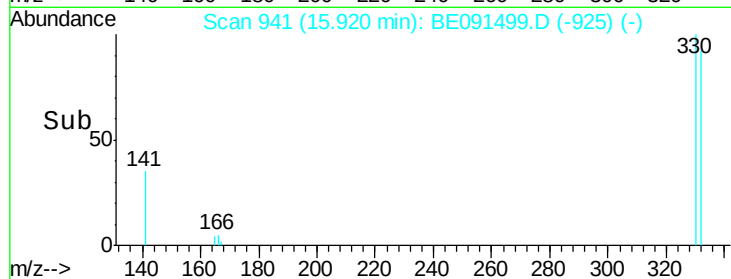
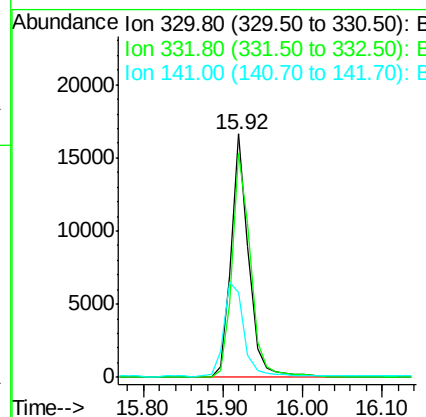
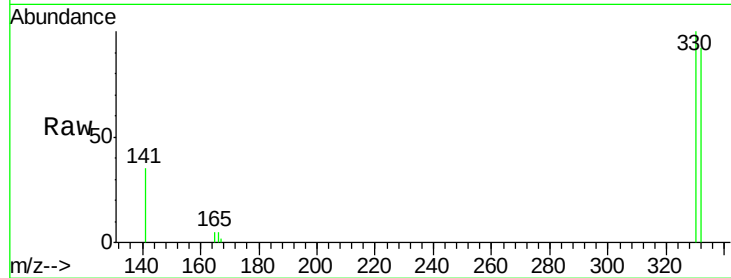
#11
 2,4,6-Tribromophenol
 Concen: 5.80 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091499.D
 Acq: 21 Mar 2016 15:02

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	29790		
332	96.6	79.2	118.8	
141	45.4	28.1	42.1#	

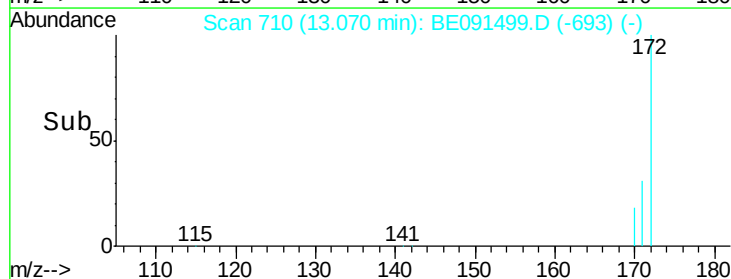
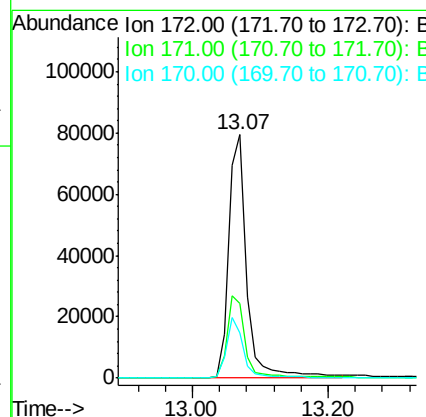
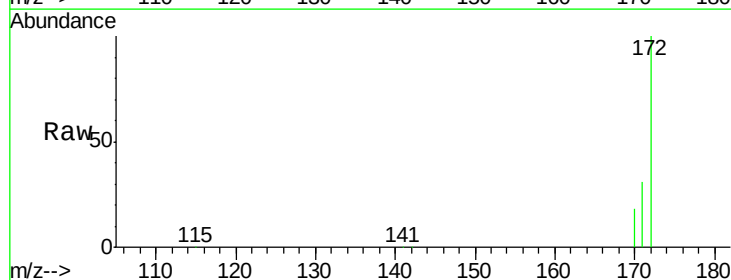
Manual Integrations
 APPROVED

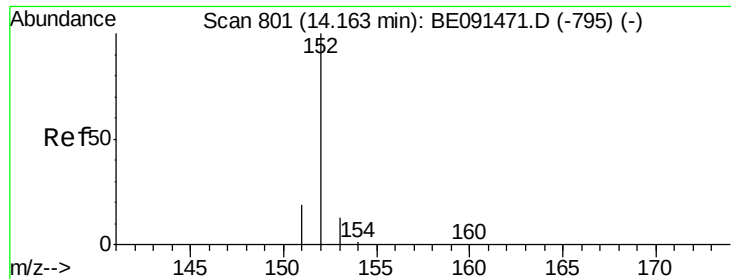
UMANGI
 3/22/2016 11:28:23 AM



#12
 2-Fluorobiphenyl
 Concen: 4.22 ng
 RT: 13.07 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: BE091499.D
 Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	149631		
171	30.6	29.8	44.8	
170	18.5	21.4	32.2#	





#13

Acenaphthylene

Concen: 0.16 ng m

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

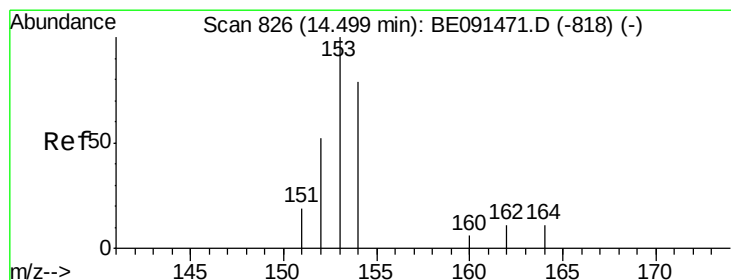
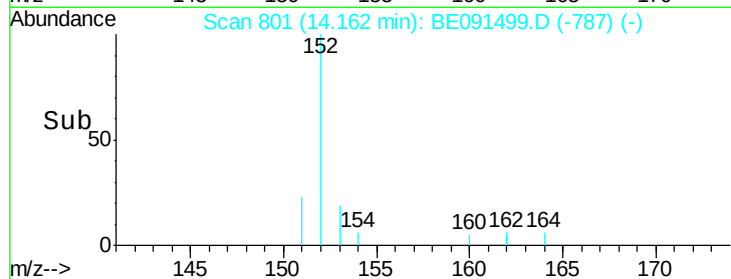
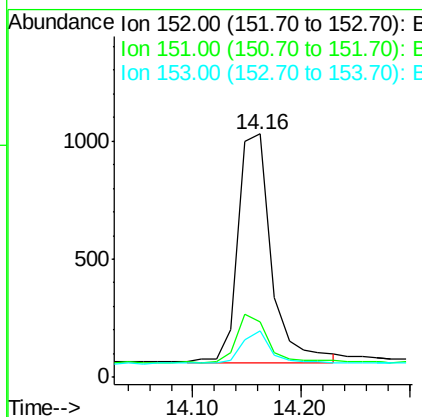
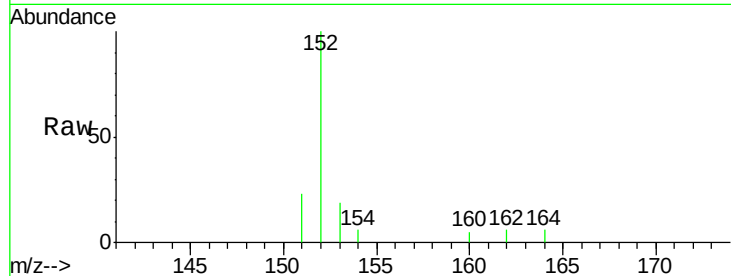
ClientSampled :

MDL-04-W

Tgt Ion:	152	Resp:	2077
Ion Ratio	Lower	Upper	
152	100		
151	32.4	16.3	24.5#
153	22.8	11.1	16.7#

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#14

Acenaphthene

Concen: 0.04 ng

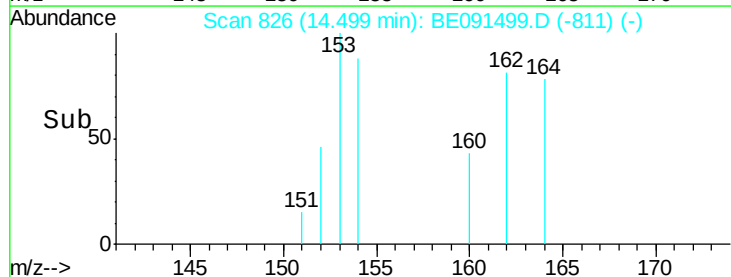
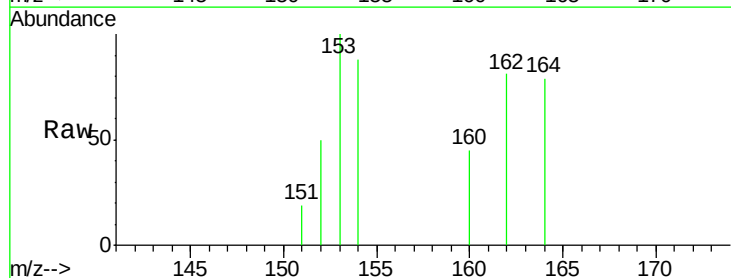
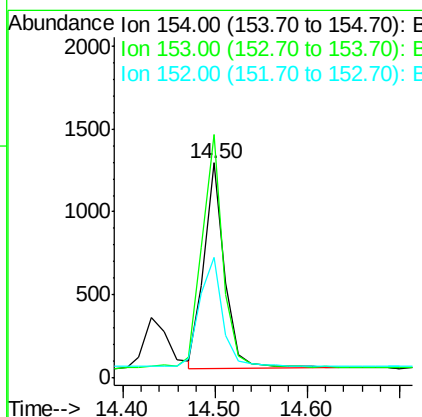
RT: 14.50 min Scan# 826

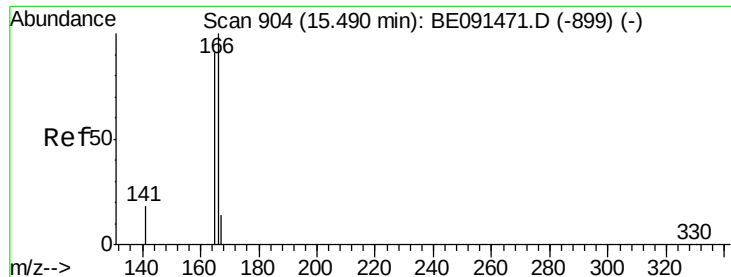
Delta R.T. -0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	154	Resp:	1952
Ion Ratio	Lower	Upper	
154	100		
153	121.2	87.3	130.9
152	59.3	42.9	64.3





#15

Fluorene

Concen: 0.04 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

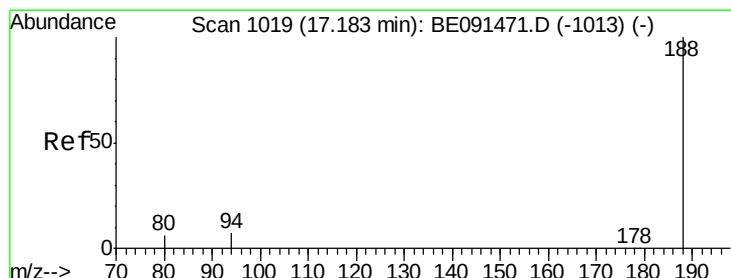
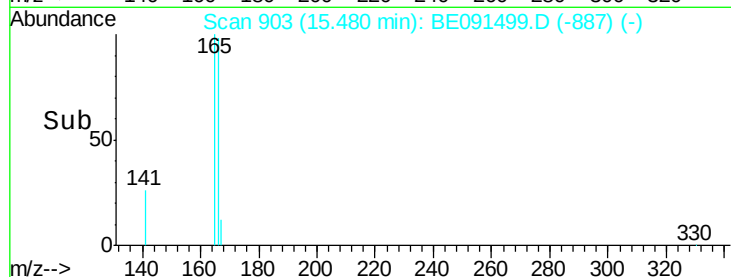
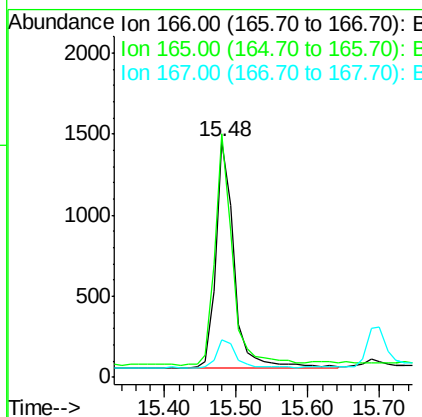
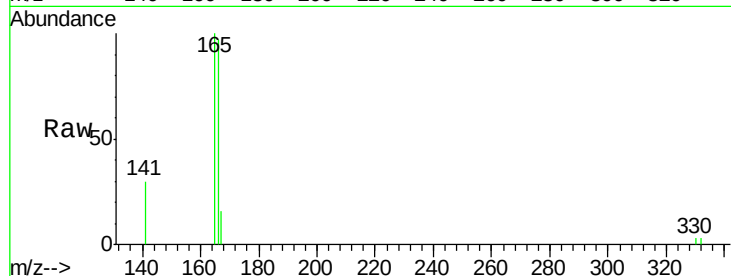
ClientSampleId :

MDL-04-W

Tgt Ion:	166	Resp:	2462
Ion Ratio	Lower	Upper	
166	100		
165	97.5	79.2	118.8
167	13.2	10.8	16.2

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#16

Phenanthrene-d10

Concen: 5.00 ng

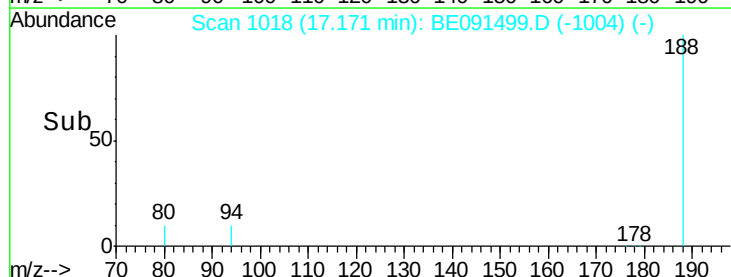
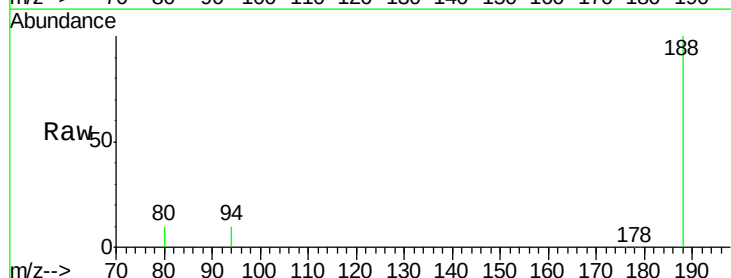
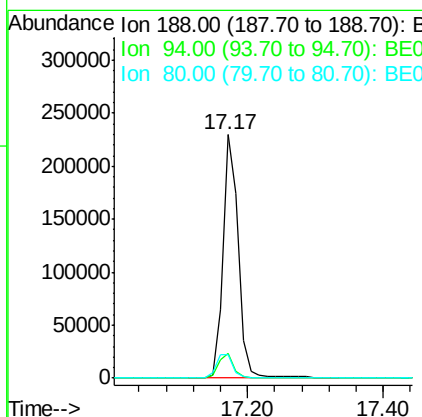
RT: 17.17 min Scan# 1018

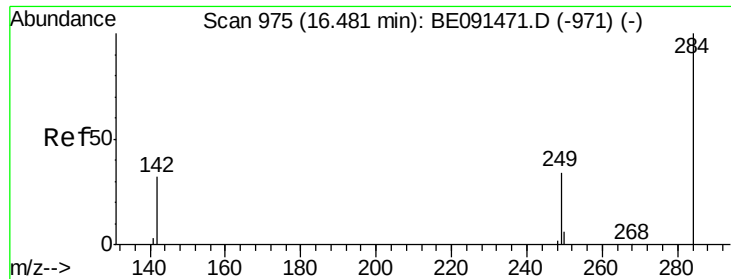
Delta R.T. -0.01 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	188	Resp:	366455
Ion Ratio	Lower	Upper	
188	100		
94	10.0	5.4	8.2#
80	9.9	5.0	7.4#





#17

Hexachlorobenzene

Concen: 0.05 ng

RT: 16.48 min Scan# 975

Delta R.T. 0.00 min

Lab File: BE091499.D

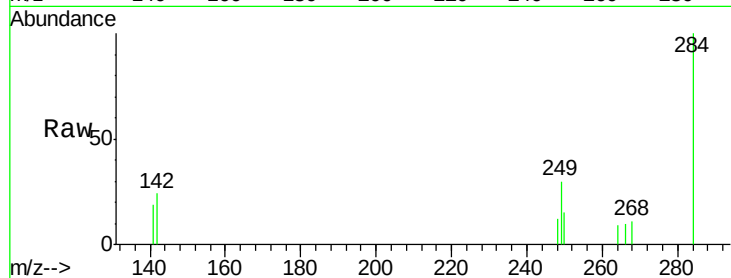
Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

ClientSampleId :

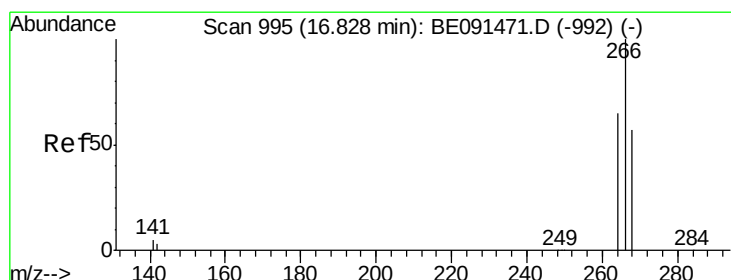
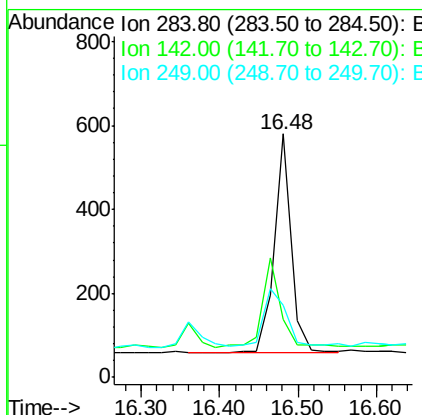
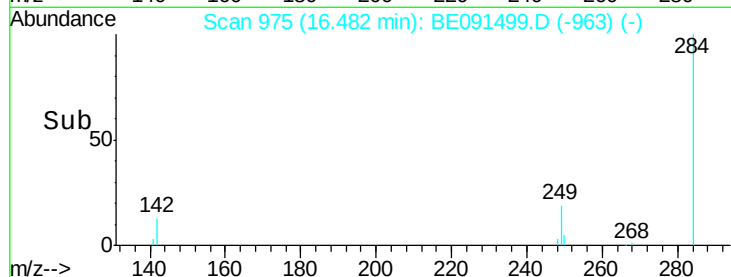
MDL-04-W



Tgt Ion:	284	Resp:	792
Ion Ratio	Lower	Upper	
284	100		
142	45.7	31.0	46.4
249	37.0	25.8	38.8

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#18

Pentachlorophenol

Concen: 0.24 ng

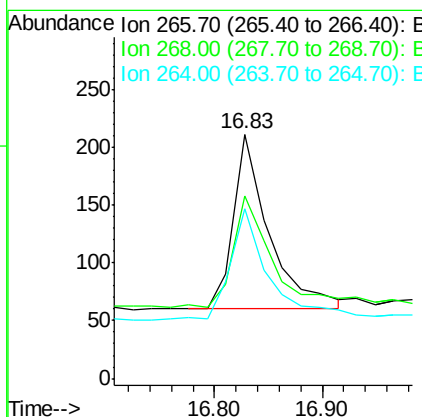
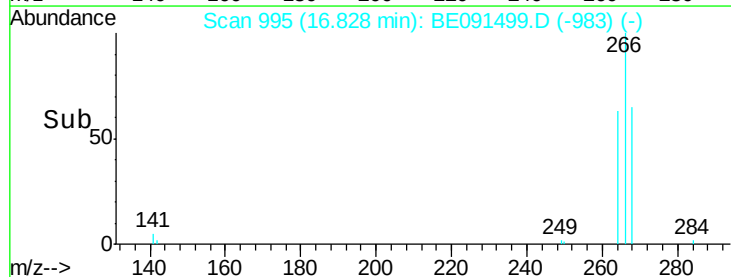
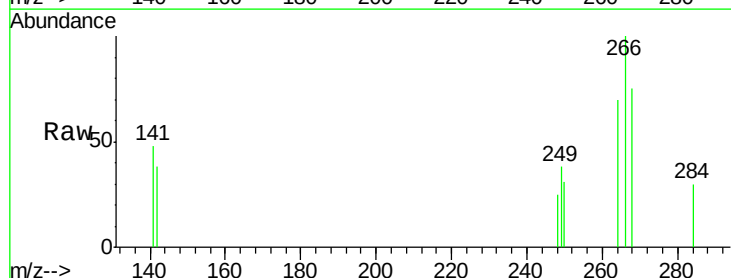
RT: 16.83 min Scan# 995

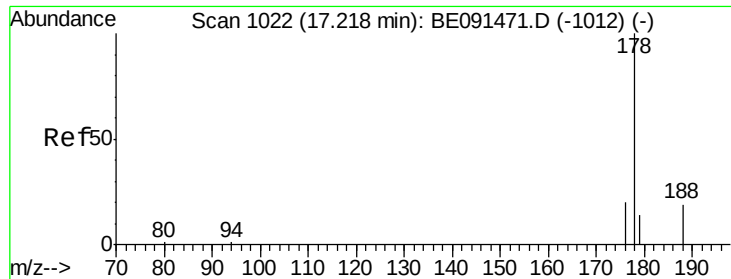
Delta R.T. 0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:	266	Resp:	346
Ion Ratio	Lower	Upper	
266	100		
268	74.9	48.2	72.2#
264	69.7	52.1	78.1





#19

Phenanthrene

Concen: 0.05 ng m

RT: 17.22 min Scan# 1022

Delta R.T. 0.00 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

ClientSampleId :

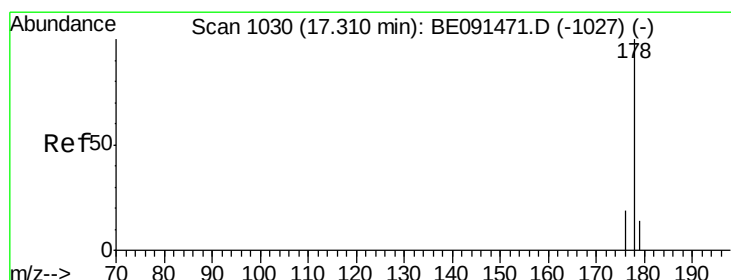
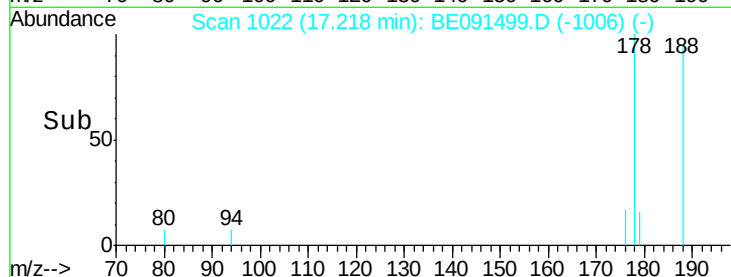
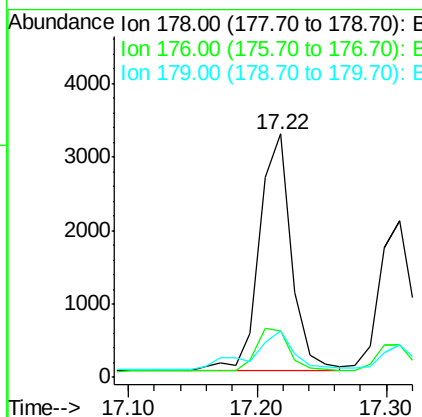
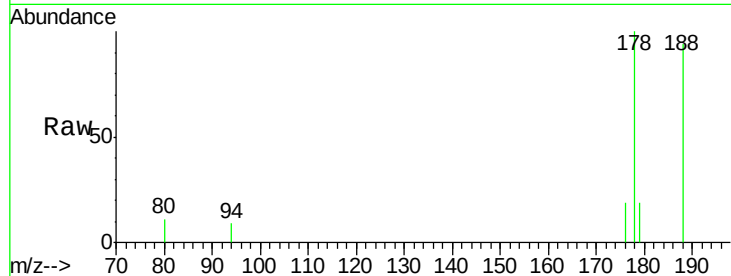
MDL-04-W

Tgt Ion:178 Resp: 5566

Ion	Ratio	Lower	Upper
178	100		
176	11.7	15.5	23.3#
179	9.5	13.1	19.7#

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM



#20

Anthracene

Concen: 0.04 ng

RT: 17.31 min Scan# 1030

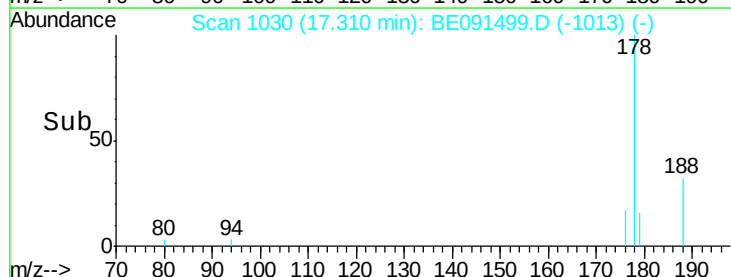
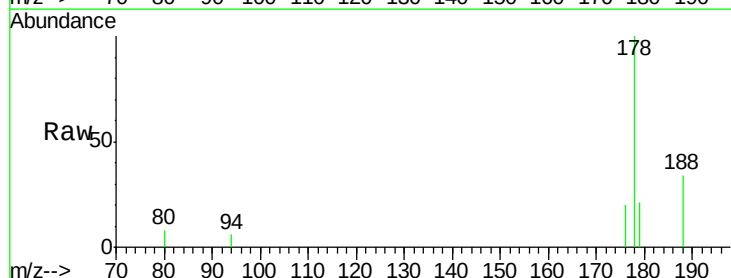
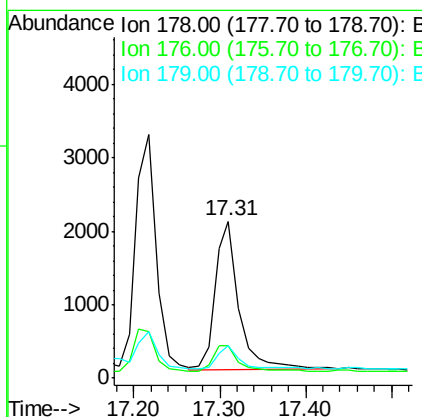
Delta R.T. 0.00 min

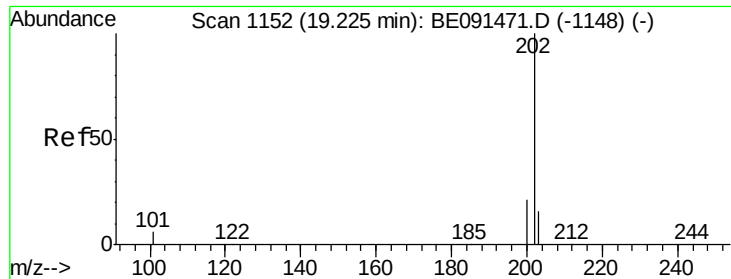
Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Tgt Ion:178 Resp: 3914

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.9	22.3
179	16.0	12.2	18.4





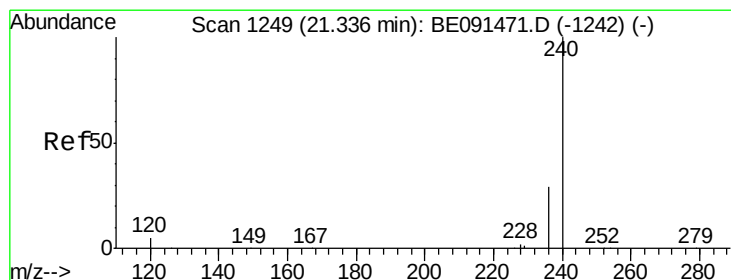
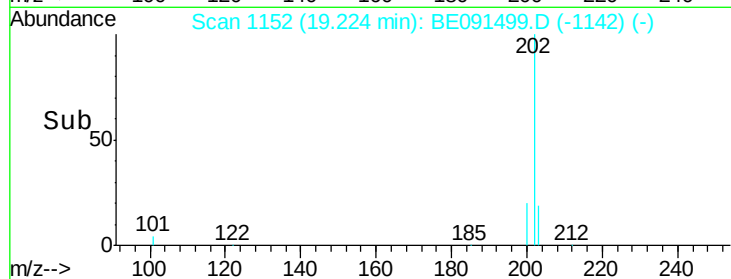
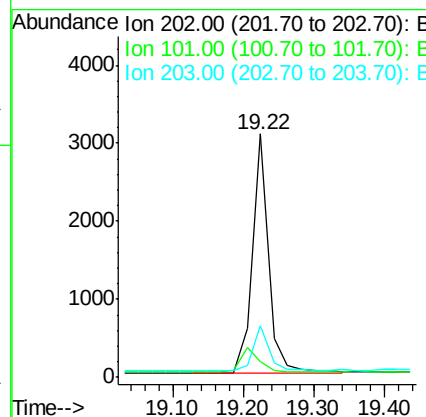
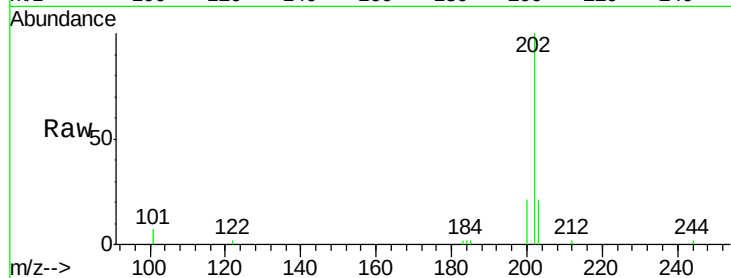
#21
 Fluoranthene
 Concen: 0.04 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE091499.D
 Acq: 21 Mar 2016 15:02

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-W

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	4996		
101	12.4	8.3	12.5	
203	19.2	13.9	20.9	

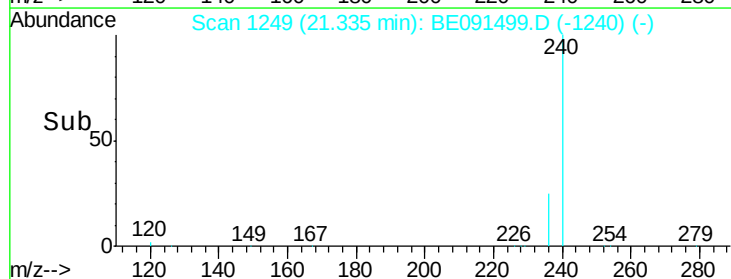
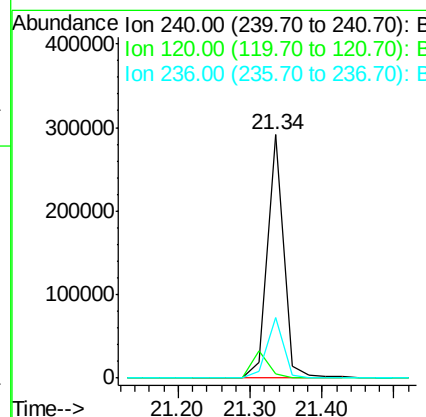
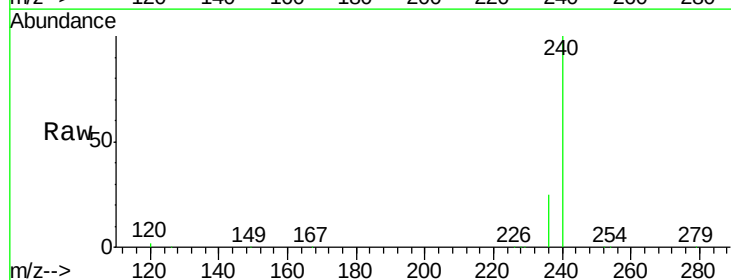
Manual Integrations
 APPROVED

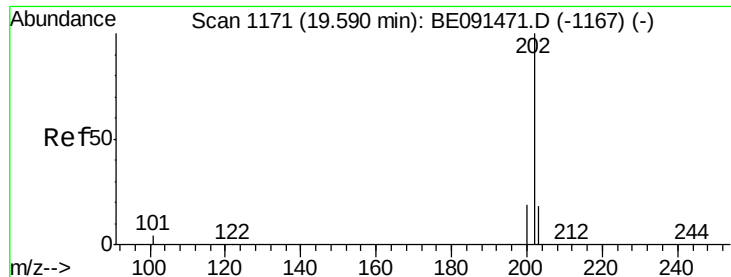
UMANGI
 3/22/2016 11:28:23 AM



#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: BE091499.D
 Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	459845		
120	2.0	4.0	6.0#	
236	25.0	23.0	34.4	





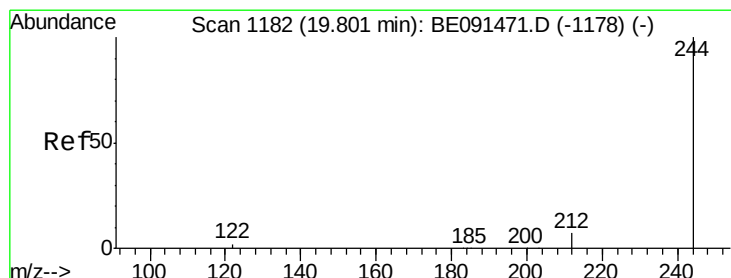
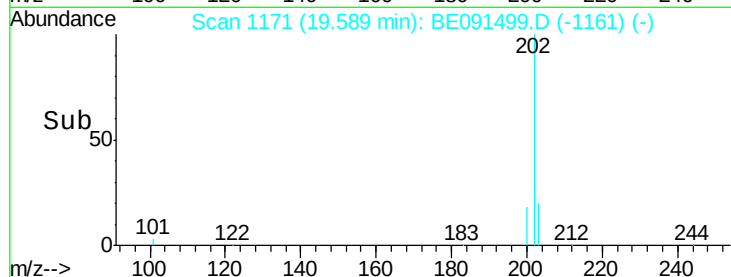
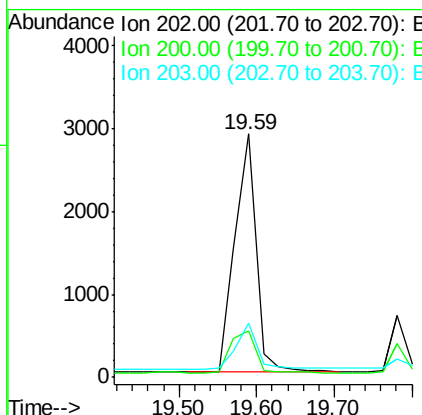
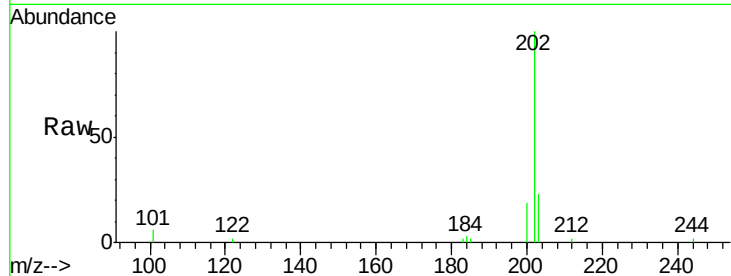
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.4	24.6
203	19.6	14.6	21.8

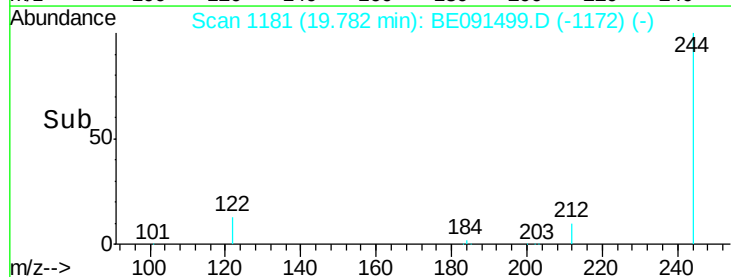
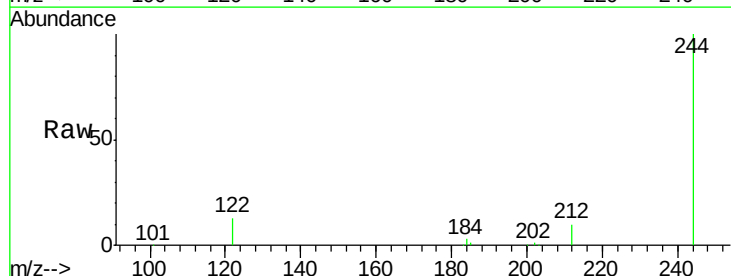
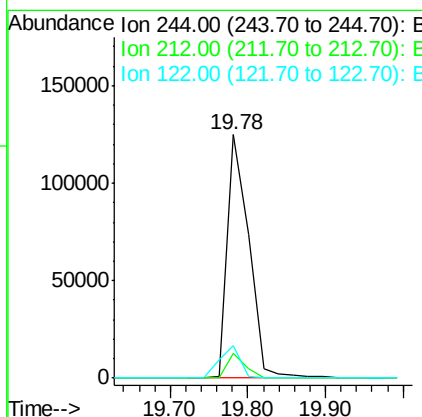
Manual Integrations
APPROVED

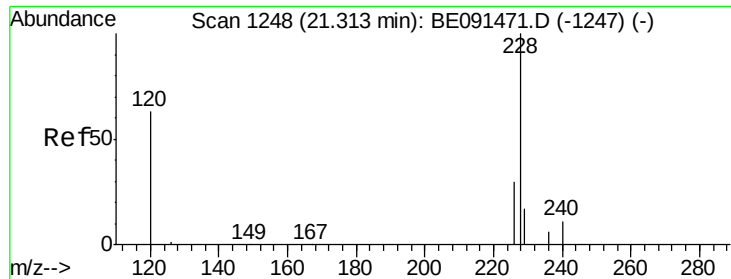
UMANGI
3/22/2016 11:28:23 AM



#24
Terphenyl-d14
Concen: 4.35 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	5.8	8.8#
122	13.3	1.8	2.8#





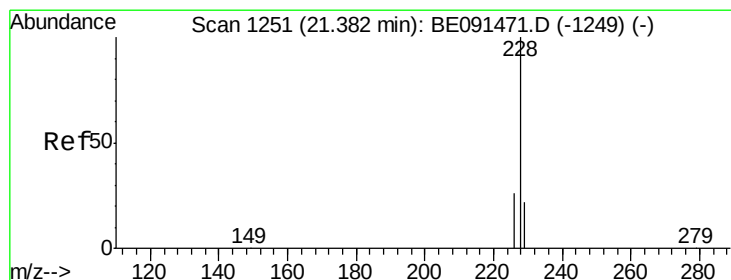
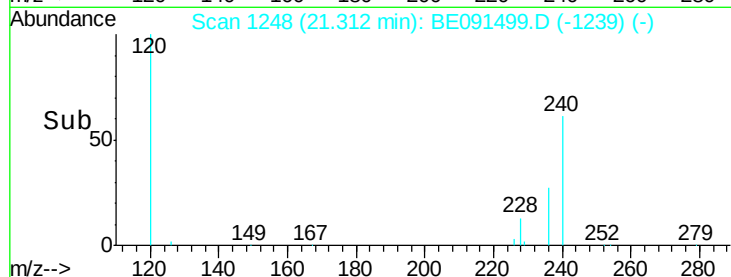
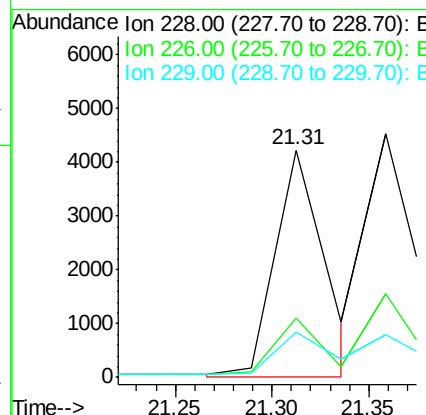
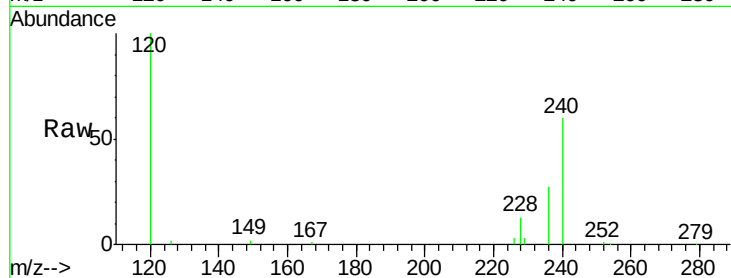
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.8	24.0	36.0
229	20.1	13.8	20.6

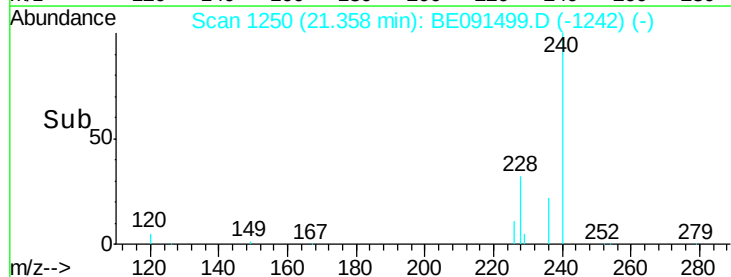
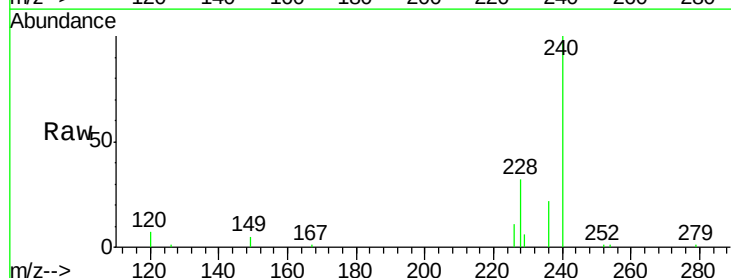
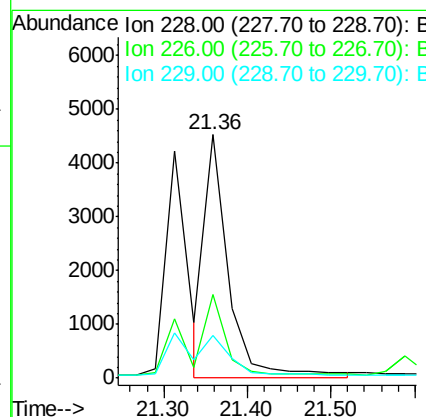
Manual Integrations
APPROVED

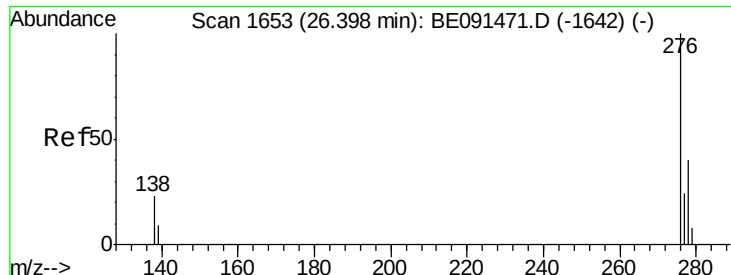
UMANGI
3/22/2016 11:28:23 AM



#26
Chrysene
Concen: 0.07 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.1	18.9	28.3#
229	17.4	19.1	28.7#





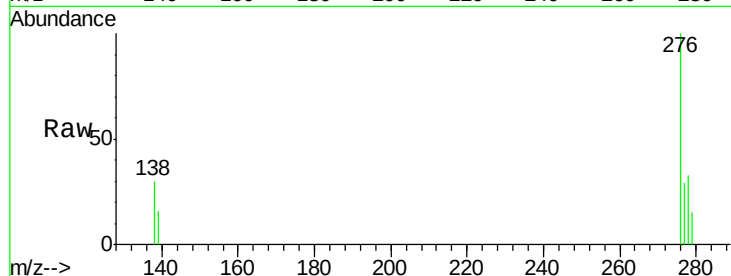
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.39 min Scan# 1652
Delta R.T. -0.01 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

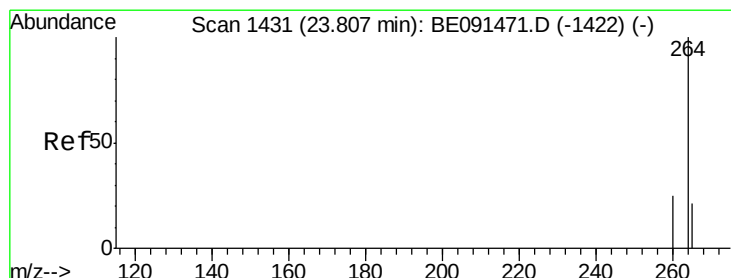
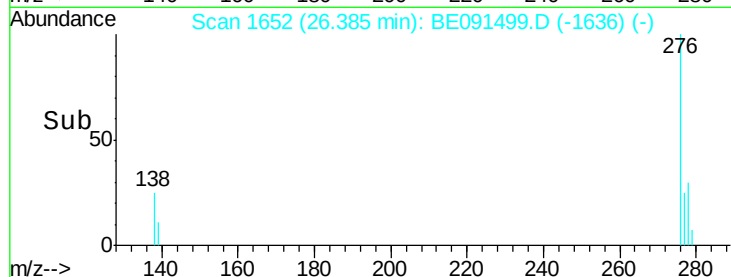
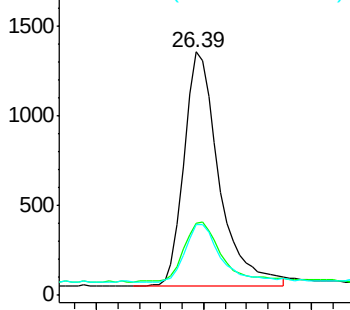
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.9	20.2	30.4
277	25.3	19.8	29.8

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM

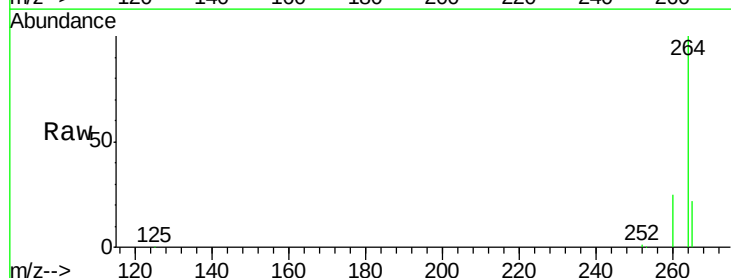


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

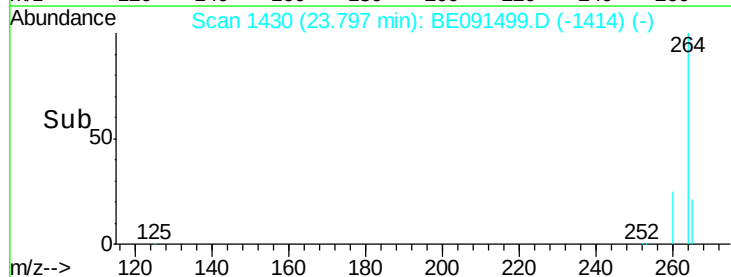
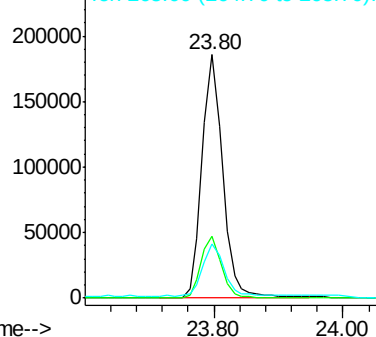


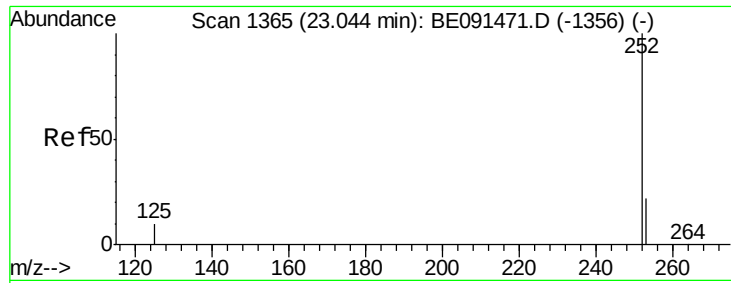
#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.1	30.1
265	22.2	18.3	27.5



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





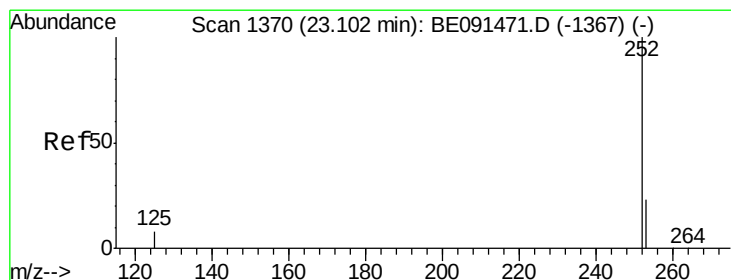
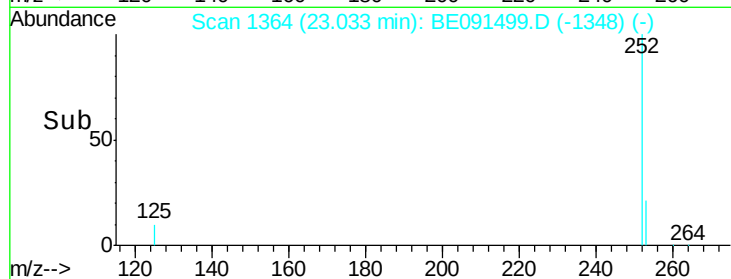
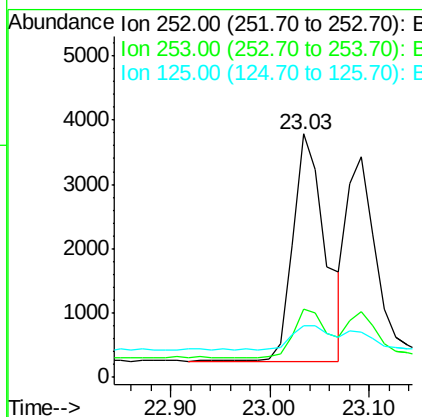
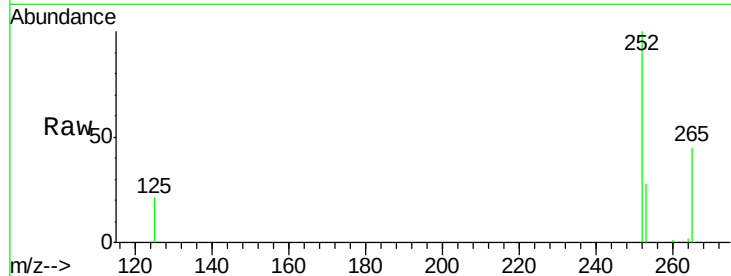
#29
Benzo(b)fluoranthene
Concen: 0.06 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.3	18.7	28.1#
125	21.2	9.8	14.6#

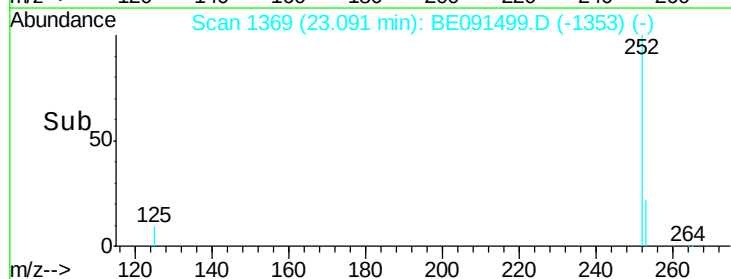
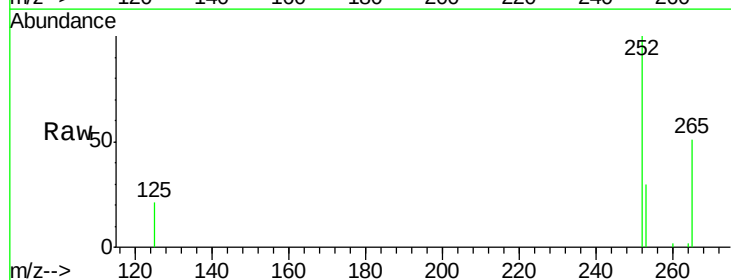
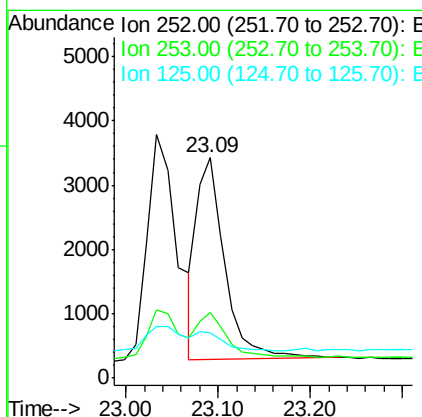
Manual Integrations
APPROVED

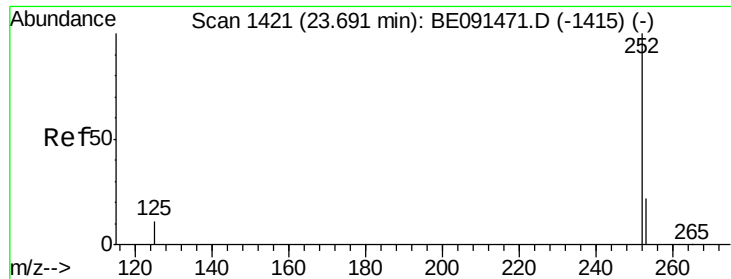
UMANGI
3/22/2016 11:28:23 AM



#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.9	20.2	30.4
125	20.6	9.4	14.2#





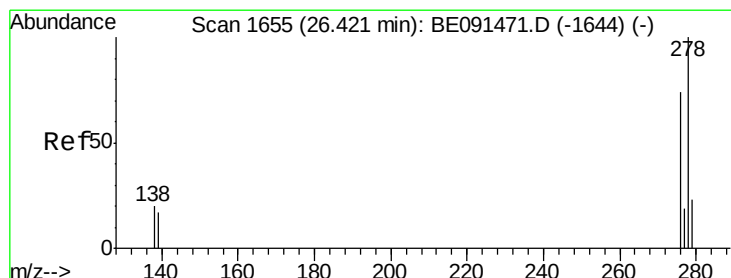
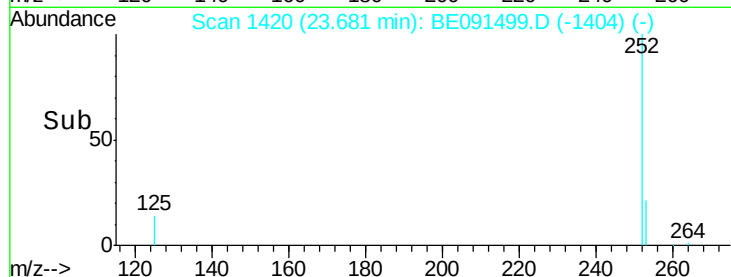
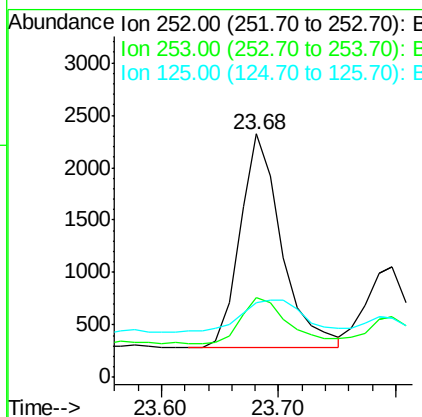
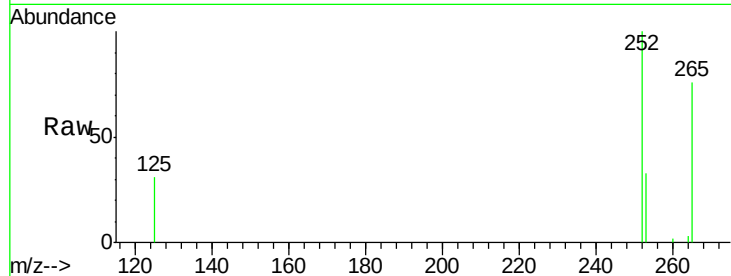
#31
Benzo(a)pyrene
Concen: 0.04 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Instrument :
BNA_E
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.5	19.4	29.0#
125	30.8	11.4	17.2#

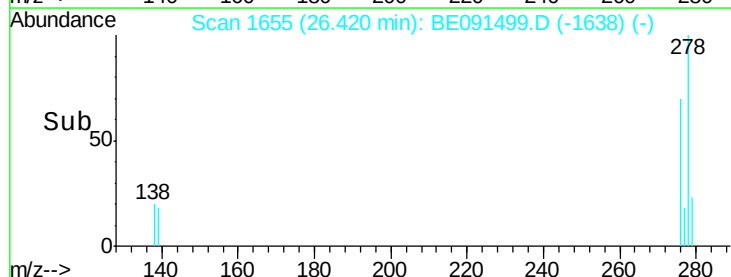
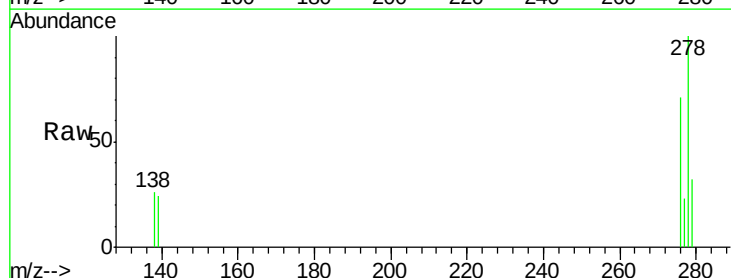
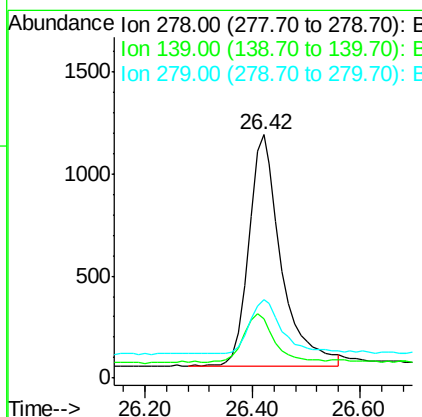
Manual Integrations
APPROVED

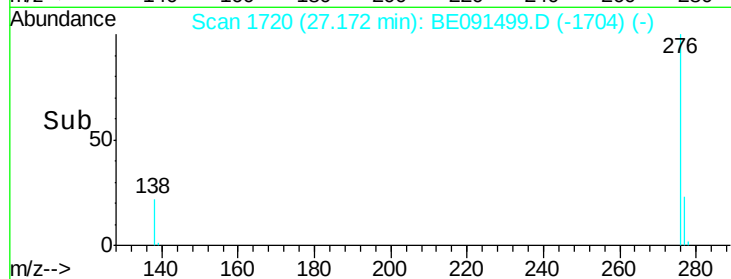
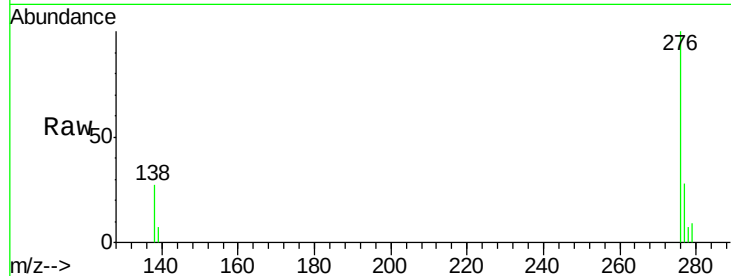
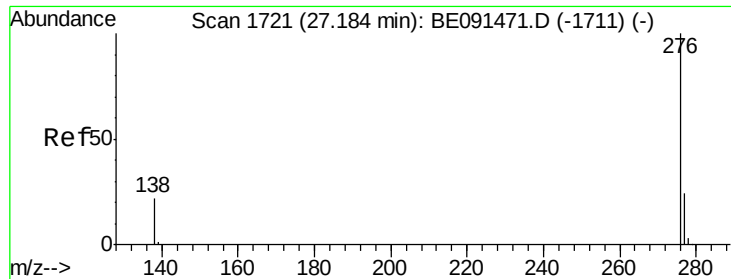
UMANGI
3/22/2016 11:28:23 AM



#32
Dibenzo(a,h)anthracene
Concen: 0.04 ng
RT: 26.42 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BE091499.D
Acq: 21 Mar 2016 15:02

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.2	14.2	21.4#
279	32.4	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.17 min Scan# 1720

Delta R.T. -0.01 min

Lab File: BE091499.D

Acq: 21 Mar 2016 15:02

Instrument :

BNA_E

ClientSampleId :

MDL-04-W

Tgt	Ion	276	Resp:	5255
Ion	Ratio	Lower	Upper	
276	100			
277	27.8	19.4	29.2	
138	26.8	18.2	27.4	

Manual Integrations
APPROVED

UMANGI
3/22/2016 11:28:23 AM

