

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE097487.D
 Acq On : 18 Mar 2016 16:31
 Operator : UM/SJ
 Sample : MDL-07-W
 Misc : 0.08PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:57 PM

Quant Time: Mar 18 17:08:04 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	53795	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	230274	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	129727	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	338330	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	464203	5.00	ng	0.00
28) Perylene-d12	23.80	264	391932	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	86631	7.01	ng	0.00
5) Phenol-d6	6.99	99	112024	6.94	ng	0.00
7) Nitrobenzene-d5	8.98	82	38552	3.14	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	30340	6.39	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	137410	4.21	ng	0.00
24) Terphenyl-d14	19.78	244	225721	4.04	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	822	0.12	ng	# 64
3) n-Nitrosodimethylamine	3.71	42	239	0.03	ng	# 77
8) Naphthalene	10.65	128	2850	0.05	ng	# 93
9) 2-Methylnaphthalene	12.27	142	1601	0.04	ng	# 96
13) Acenaphthylene	14.16	152	2229	0.17	ng	# 89
14) Acenaphthene	14.50	154	1837	0.05	ng	92
15) Fluorene	15.48	166	2249	0.04	ng	95
17) Hexachlorobenzene	16.48	284	735	0.05	ng	96
18) Pentachlorophenol	16.83	266	299	0.24	ng	# 84
19) Phenanthrene	17.22	178	5123m	0.05	ng	
20) Anthracene	17.31	178	3599	0.04	ng	99
21) Fluoranthene	19.22	202	5347	0.05	ng	98
23) Pyrene	19.59	202	5721	0.05	ng	96
25) Benzo(a)anthracene	21.31	228	7540m	0.06	ng	
26) Chrysene	21.36	228	10246m	0.08	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	5288	0.04	ng	98
29) Benzo(b)fluoranthene	23.03	252	8400	0.07	ng	# 83
30) Benzo(k)fluoranthene	23.09	252	6927	0.05	ng	# 83
31) Benzo(a)pyrene	23.68	252	5079	0.05	ng	# 71
32) Dibenzo(a,h)anthracene	26.42	278	4227	0.04	ng	# 81
33) Benzo(g,h,i)perylene	27.17	276	4932	0.04	ng	# 91

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

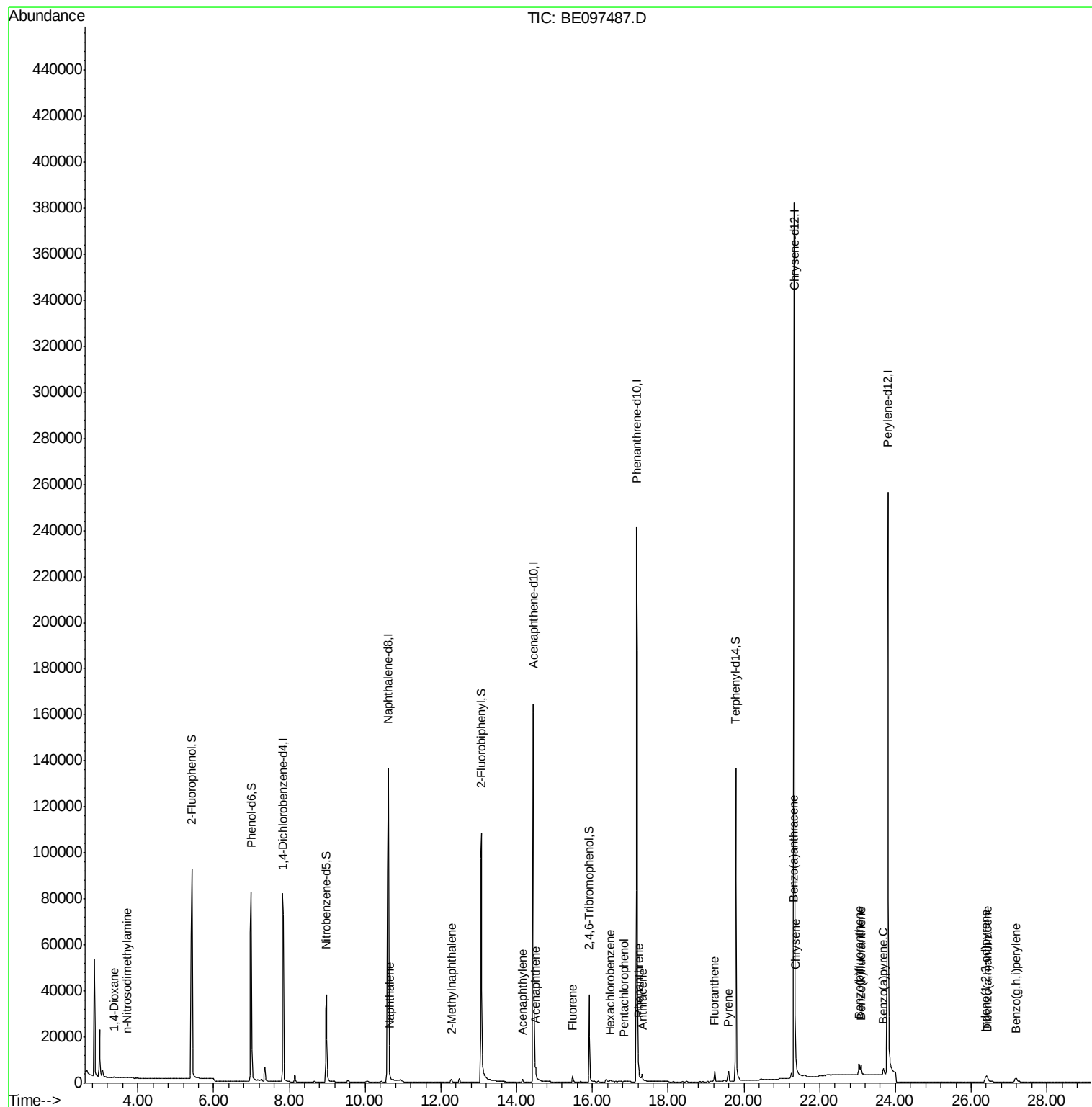
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
Data File : BE097487.D
Acq On : 18 Mar 2016 16:31
Operator : UM/SJ
Sample : MDL-07-W
Misc : 0.08PPM
ALS Vial : 17 Sample Multiplier: 1

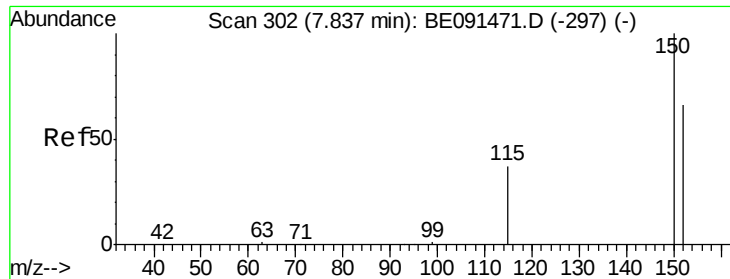
Instrument :
BNA_E
ClientSampleId :

Quant Time: Mar 18 17:08:04 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

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM

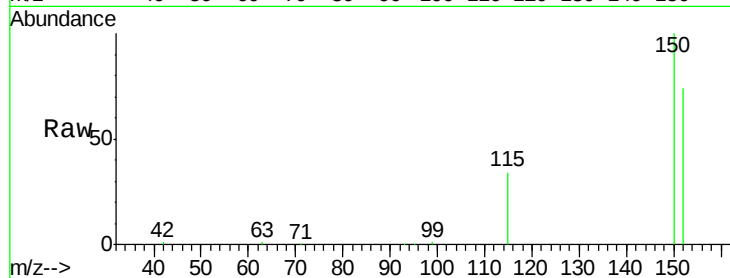




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 302
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

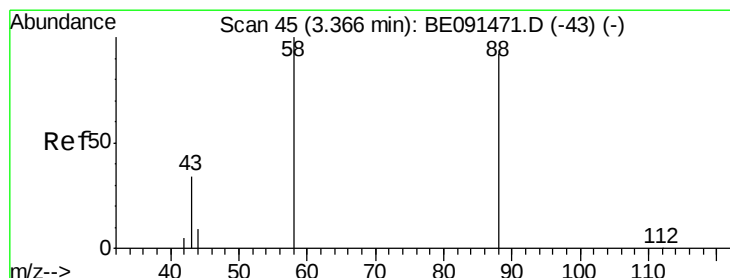
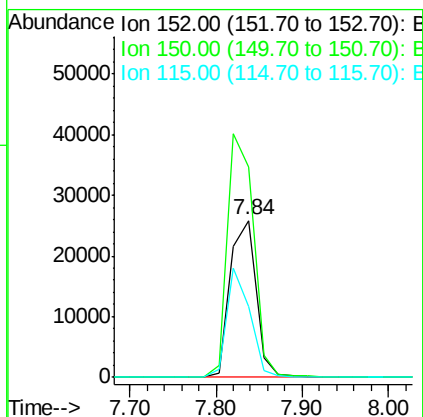
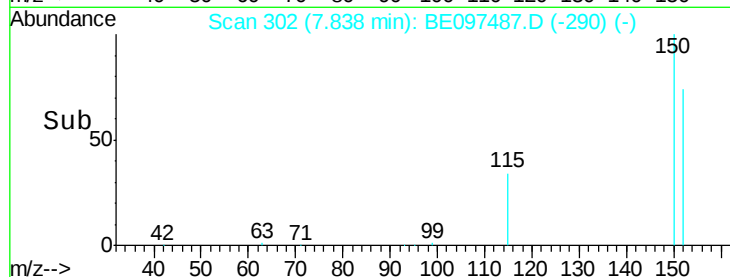
Instrument :
BNA_E
ClientSampled :



Tgt Ion: 152 Resp: 53795
Ion Ratio Lower Upper
152 100
150 134.3 122.2 183.2
115 45.5 45.9 68.9#

Manual Integrations
APPROVED

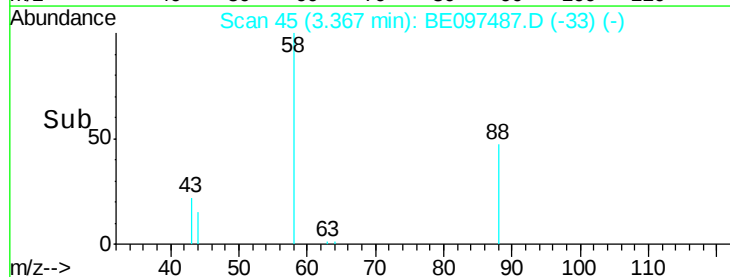
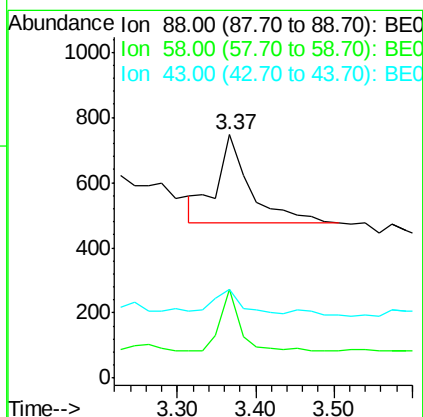
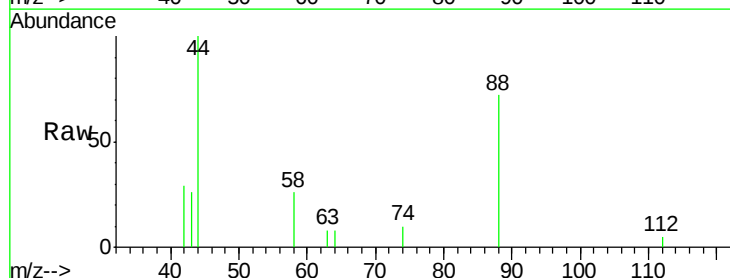
apatel
3/21/2016 5:12:57 PM

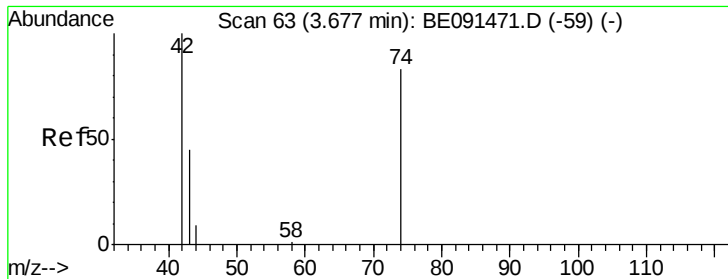


#2

1,4-Dioxane
Concen: 0.12 ng
RT: 3.37 min Scan# 45
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion: 88 Resp: 822
Ion Ratio Lower Upper
88 100
58 40.4 61.0 91.6#
43 20.3 25.4 38.2#





#3

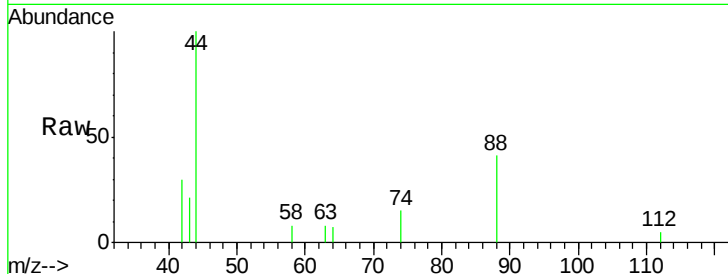
n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.71 min Scan# 65
Delta R.T. 0.04 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampled :

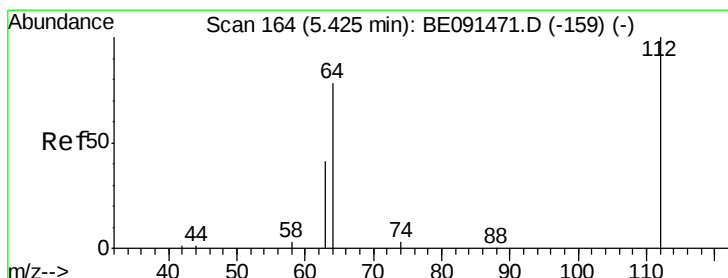
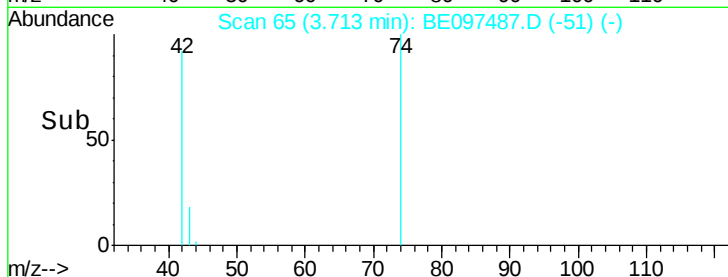
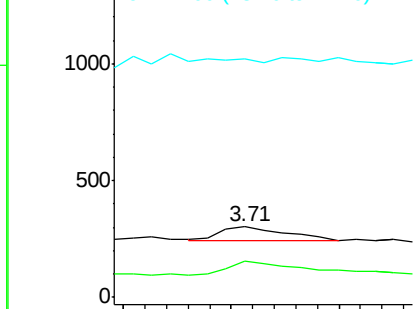
Tgt Ion: 42 Resp: 239
Ion Ratio Lower Upper
42 100
74 129.3 84.3 126.5#
44 0.0 6.7 10.1#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



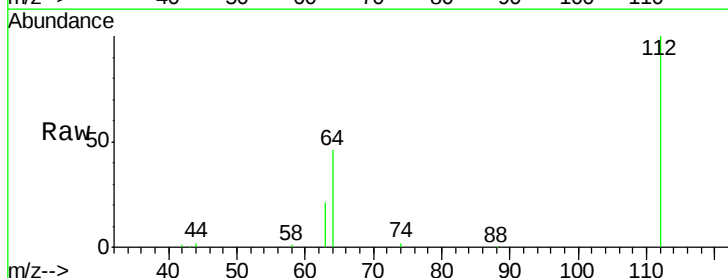
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



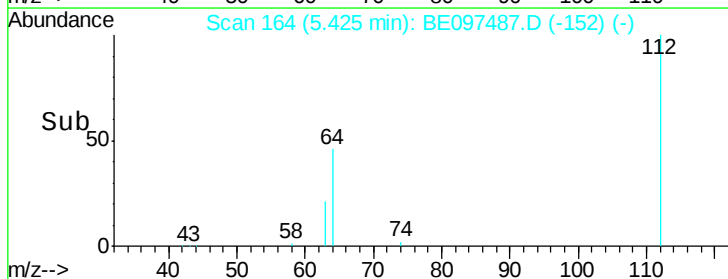
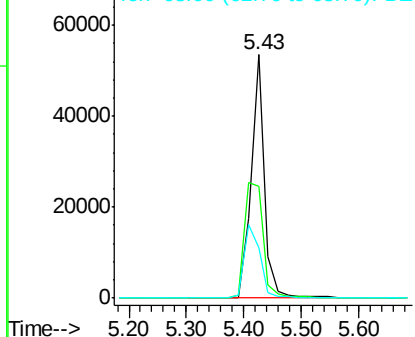
#4

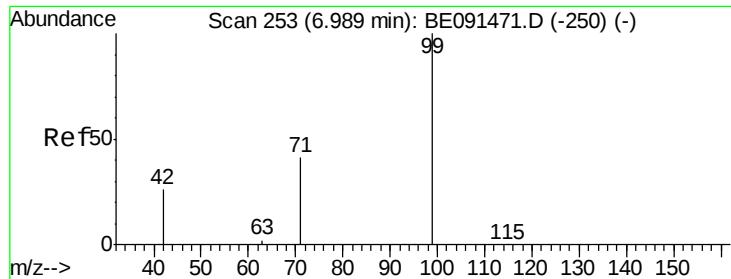
2-Fluorophenol
Concen: 7.01 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion: 112 Resp: 86631
Ion Ratio Lower Upper
112 100
64 66.0 53.3 79.9
63 35.8 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: 6.94 ng

RT: 6.99 min Scan# 253

Delta R.T. 0.00 min

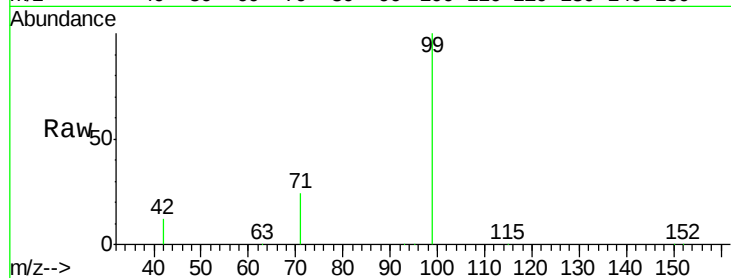
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

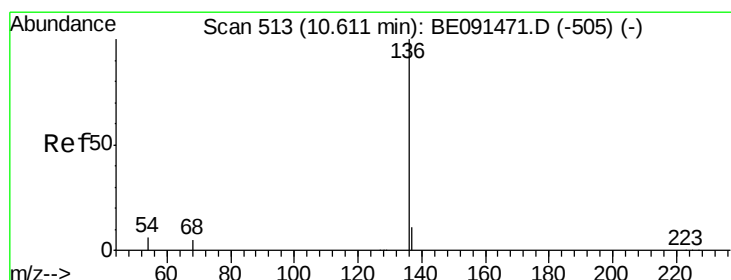
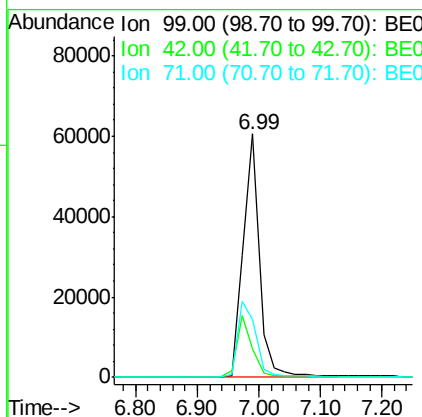
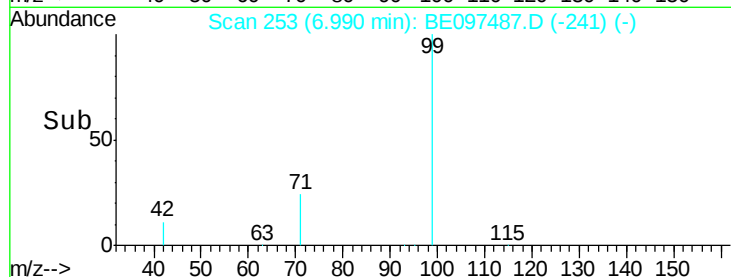
ClientSampleId :



Tgt Ion:	99	Resp:	112024
Ion Ratio	Lower	Upper	
99	100		
42	24.2	20.6	30.8
71	35.2	29.0	43.4

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#6

Naphthalene-d8

Concen: 5.00 ng

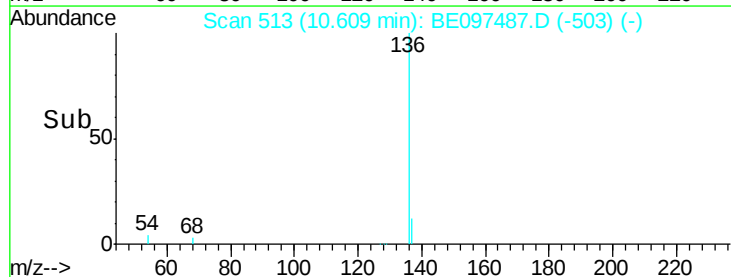
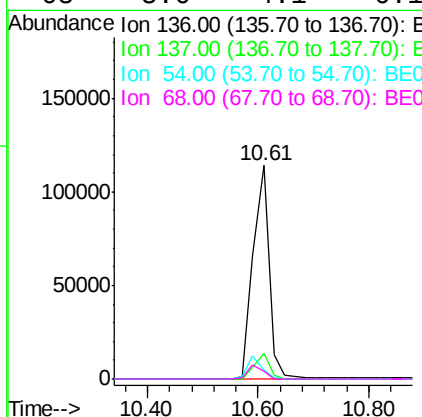
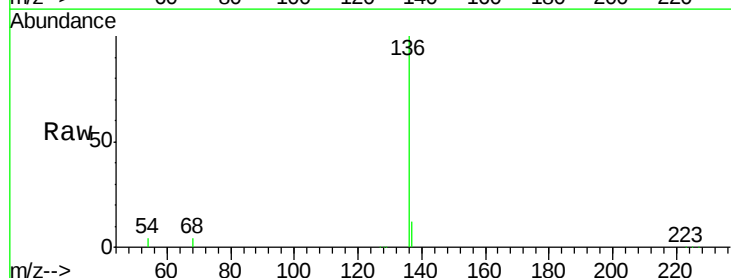
RT: 10.61 min Scan# 513

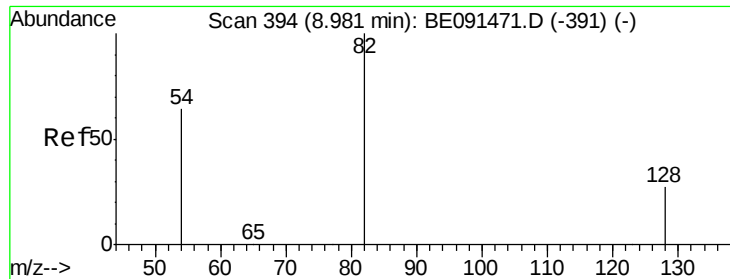
Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Tgt Ion:	136	Resp:	230274
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.8	13.2
54	4.3	5.2	7.8#
68	3.6	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.14 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

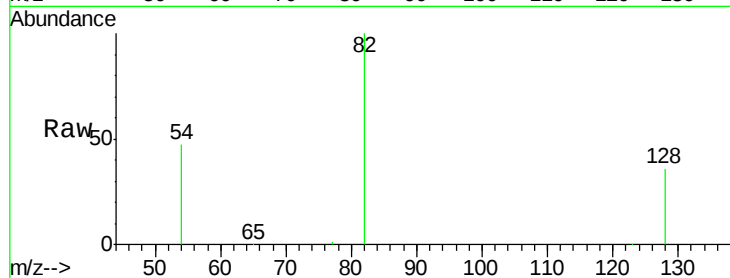
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 82 Resp: 38552

Ion Ratio Lower Upper

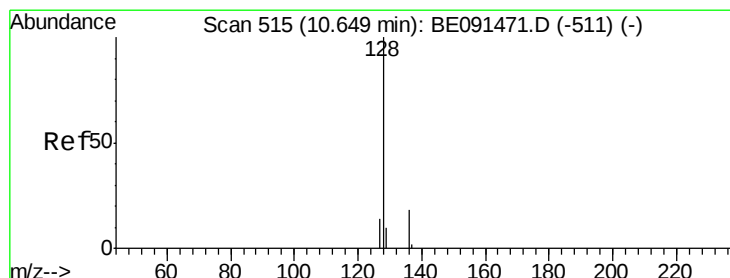
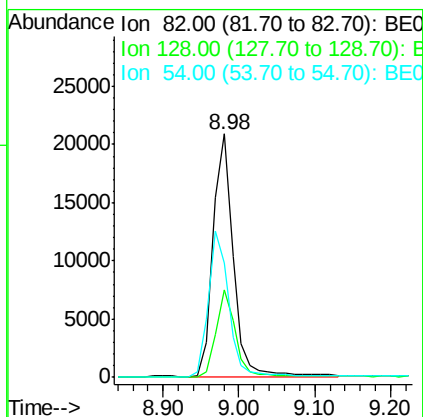
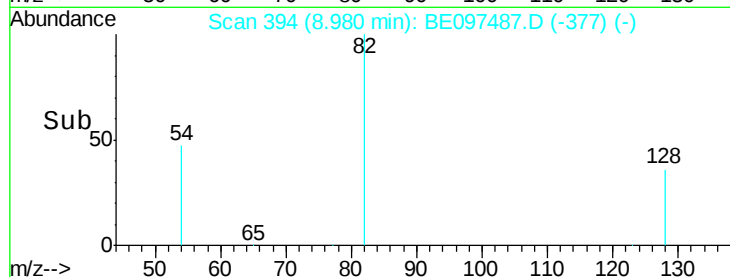
82 100

128 36.0 23.5 35.3#

54 46.8 52.4 78.6#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#8

Naphthalene

Concen: 0.05 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

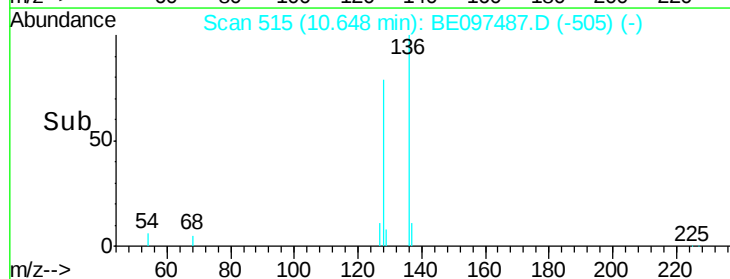
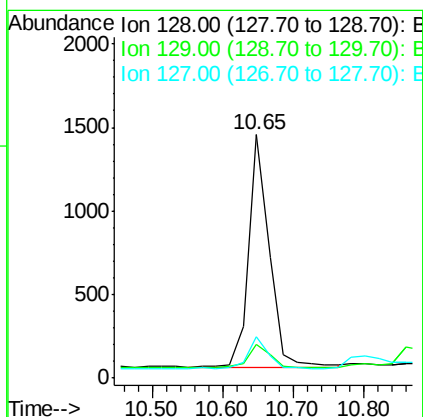
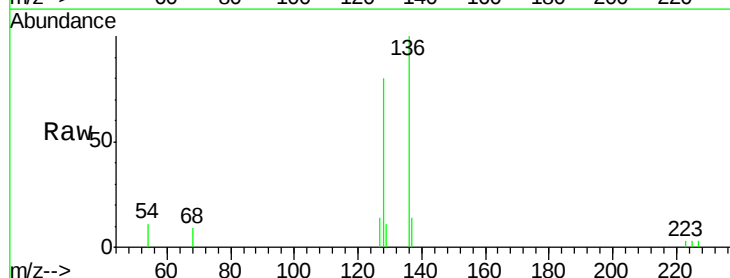
Tgt Ion: 128 Resp: 2850

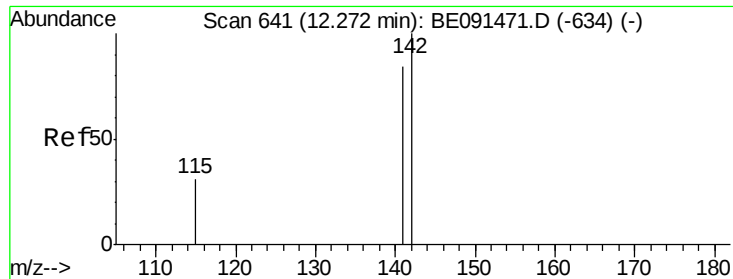
Ion Ratio Lower Upper

128 100

129 14.0 8.2 12.2#

127 17.0 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.04 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

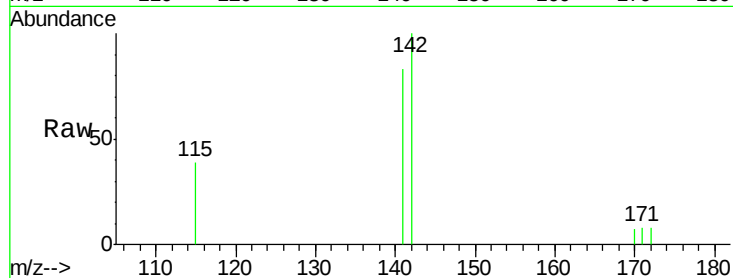
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

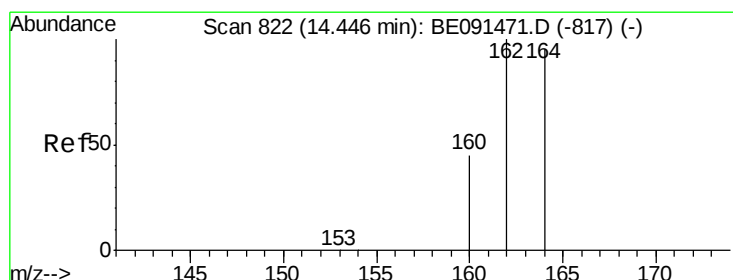
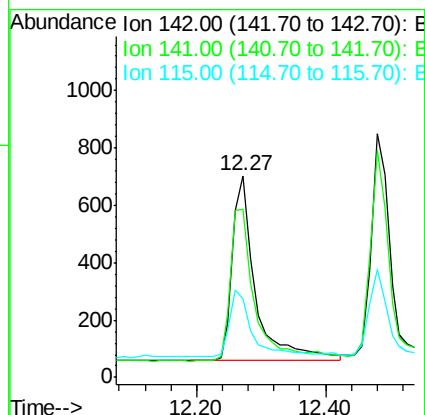
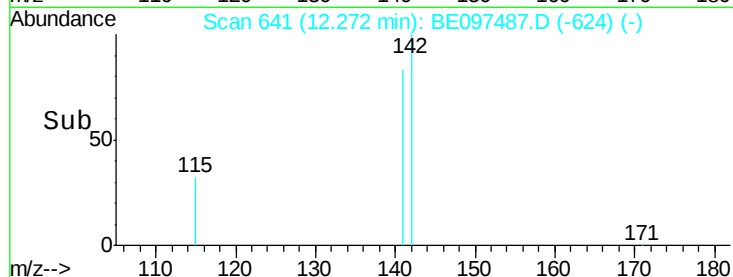
ClientSampled :



Tgt Ion:	142	Resp:	1601
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.9	100.3
115	39.1	25.1	37.7

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

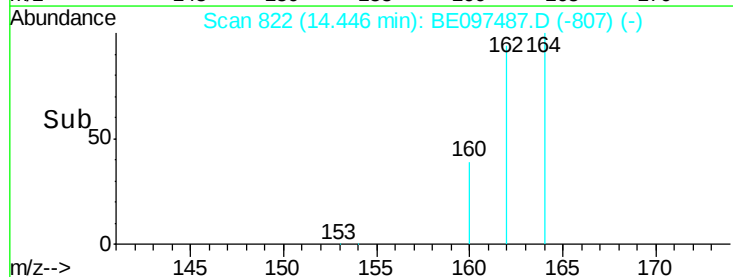
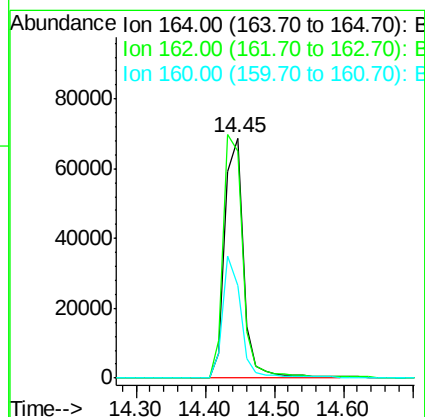
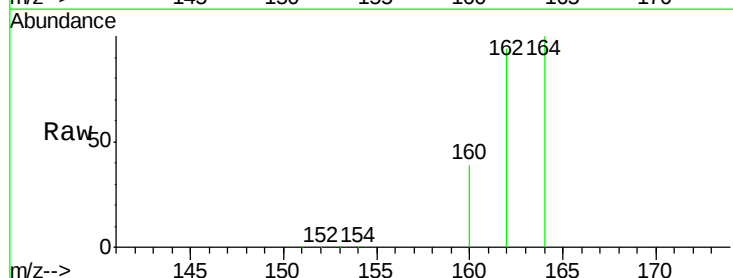
RT: 14.45 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

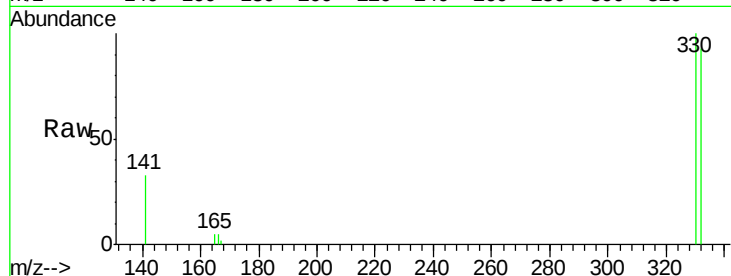
Tgt Ion:	164	Resp:	129727
Ion Ratio	Lower	Upper	
164	100		
162	94.2	84.4	126.6
160	38.6	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.39 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097487.D
 Acq: 18 Mar 2016 16:31

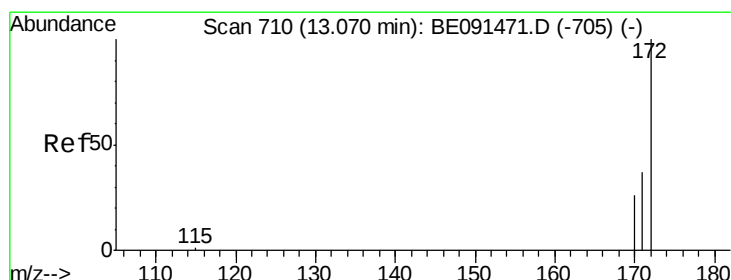
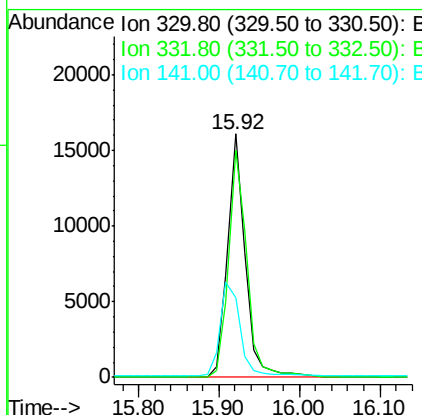
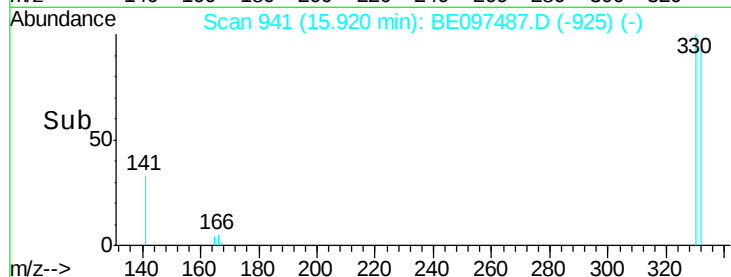
Instrument :
 BNA_E
 ClientSampleId :



Tgt Ion:330 Resp: 30340
 Ion Ratio Lower Upper
 330 100
 332 97.7 79.2 118.8
 141 44.1 28.1 42.1#

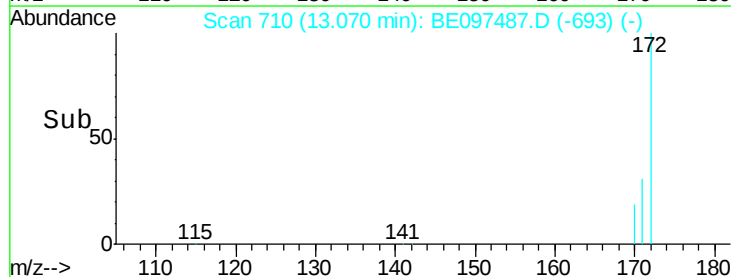
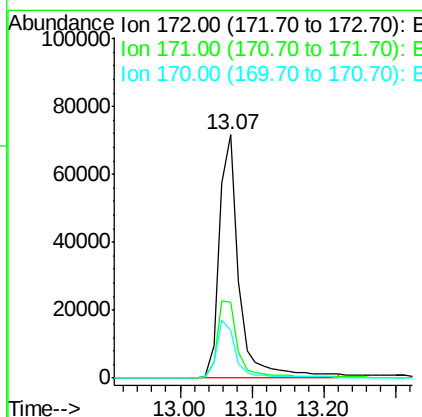
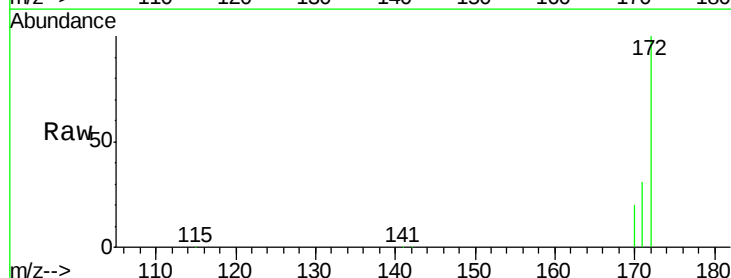
Manual Integrations
 APPROVED

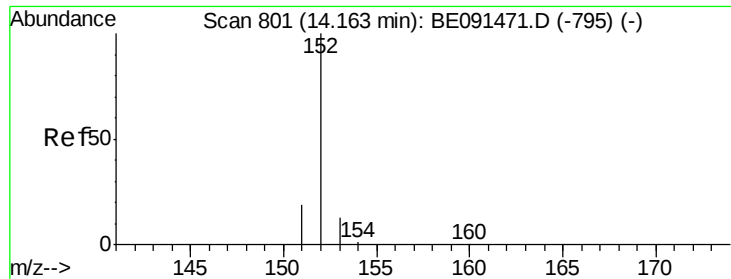
apatel
 3/21/2016 5:12:57 PM



#12
 2-Fluorobiphenyl
 Concen: 4.21 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE097487.D
 Acq: 18 Mar 2016 16:31

Tgt Ion:172 Resp: 137410
 Ion Ratio Lower Upper
 172 100
 171 31.4 29.8 44.8
 170 19.5 21.4 32.2#





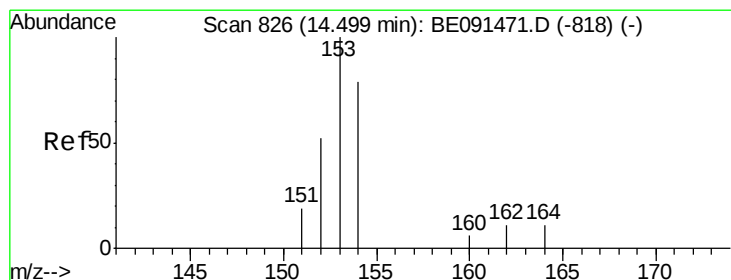
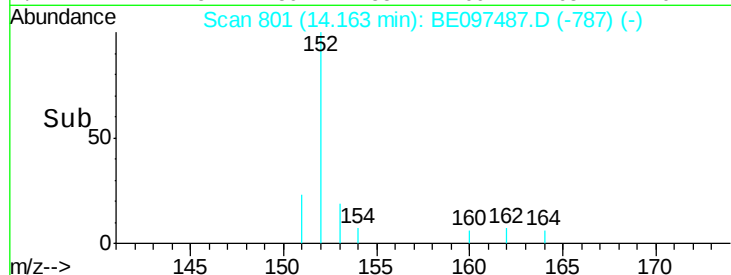
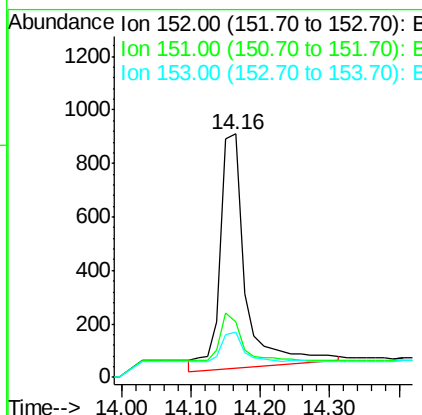
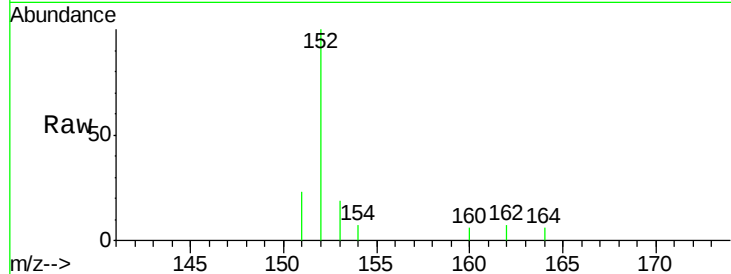
#13
Acenaphthylene
Concen: 0.17 ng
RT: 14.16 min Scan# 801
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
152	100		
151	27.5	16.3	24.5#
153	15.7	11.1	16.7

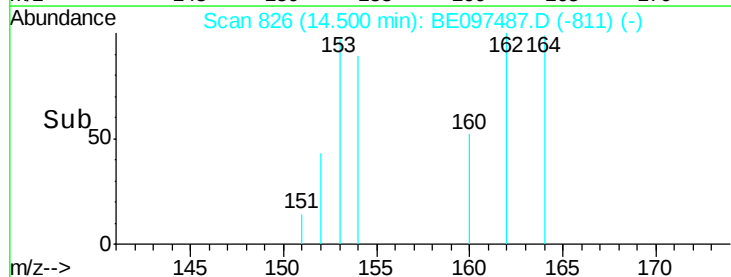
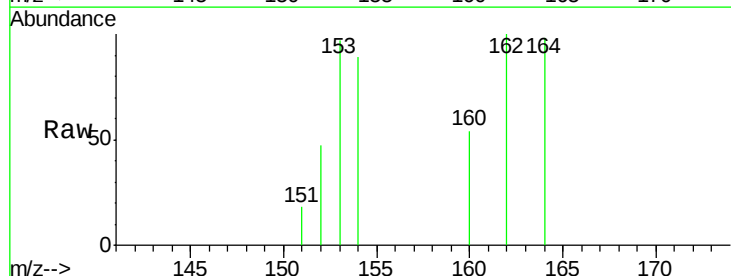
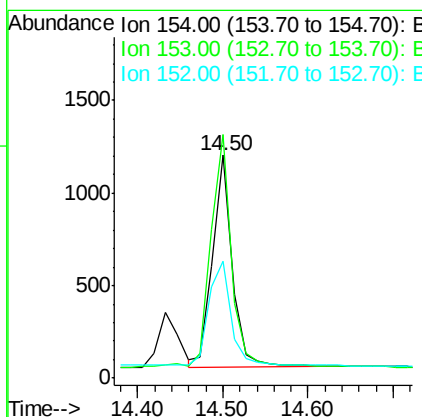
Manual Integrations
APPROVED

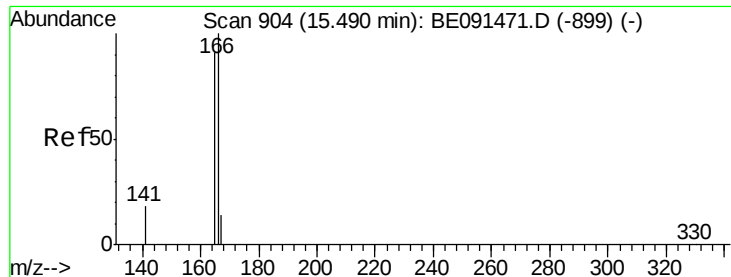
apatel
3/21/2016 5:12:57 PM



#14
Acenaphthene
Concen: 0.05 ng
RT: 14.50 min Scan# 826
Delta R.T. 0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.4	87.3	130.9
152	57.1	42.9	64.3





#15

Fluorene

Concen: 0.04 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

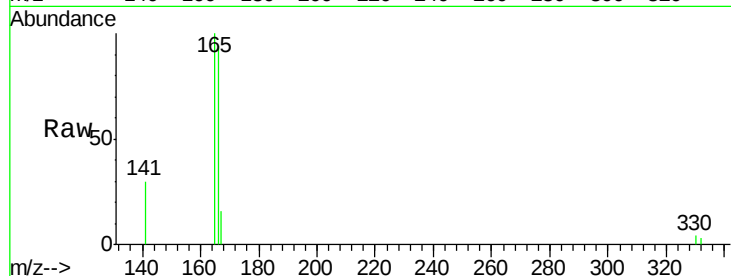
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

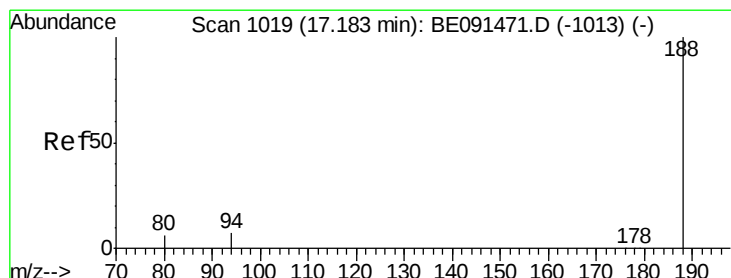
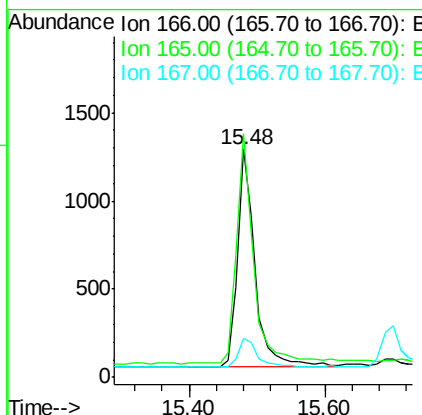
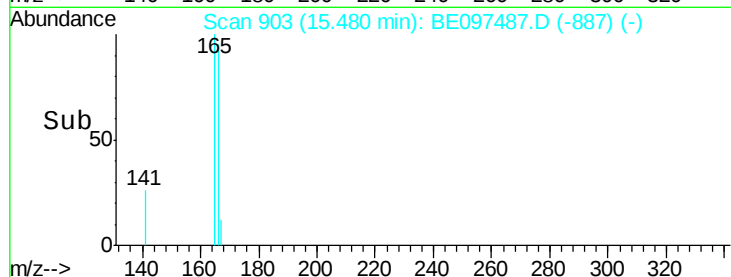
ClientSampleId :



Tgt Ion:	166	Resp:	2249
Ion Ratio	Lower	Upper	
166	100		
165	104.9	79.2	118.8
167	13.7	10.8	16.2

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#16

Phenanthrene-d10

Concen: 5.00 ng

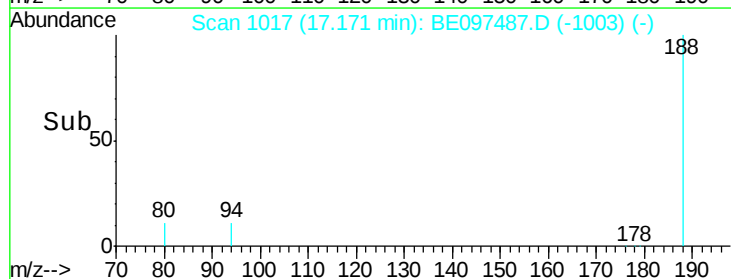
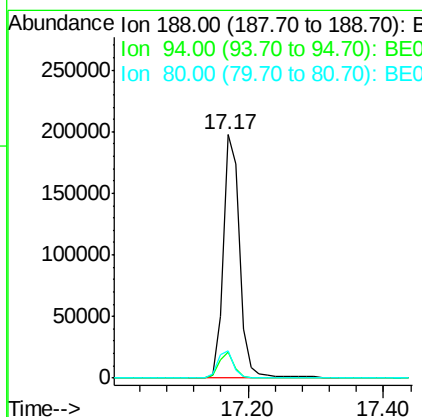
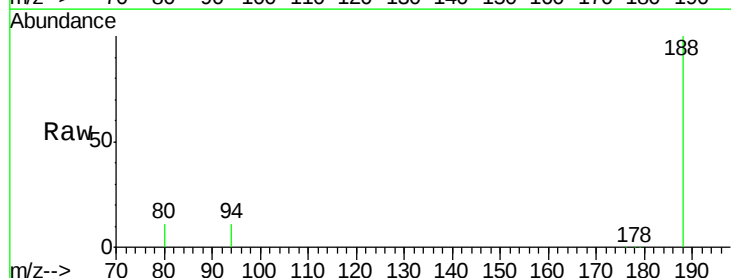
RT: 17.17 min Scan# 1017

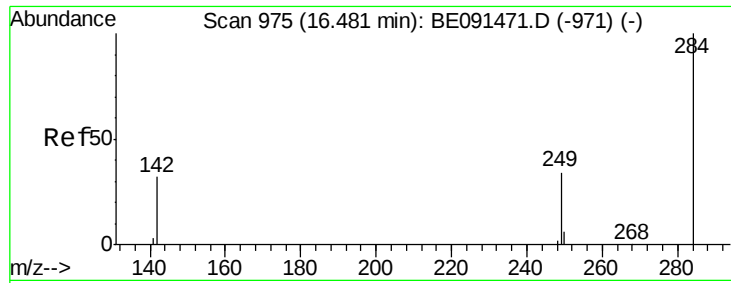
Delta R.T. -0.01 min

Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

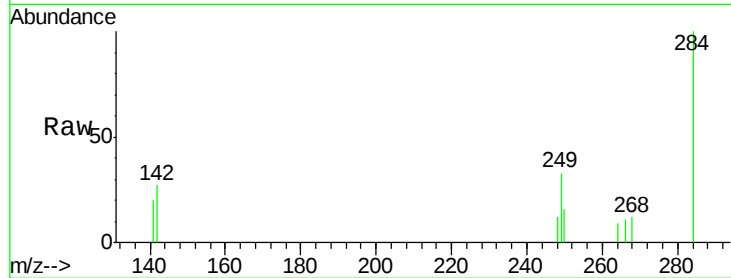
Tgt Ion:	188	Resp:	338330
Ion Ratio	Lower	Upper	
188	100		
94	10.8	5.4	8.2#
80	11.0	5.0	7.4#





#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.48 min Scan# 974
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

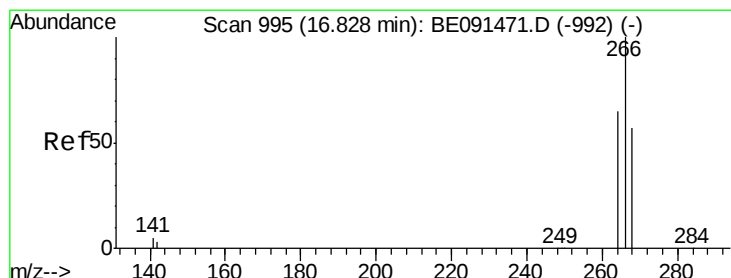
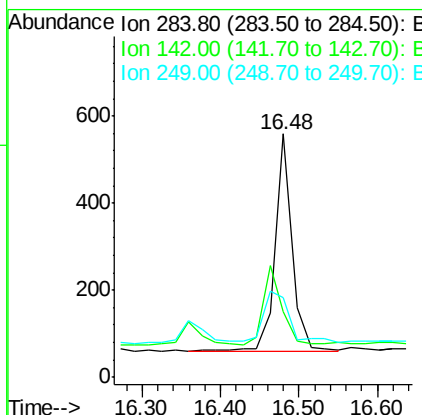
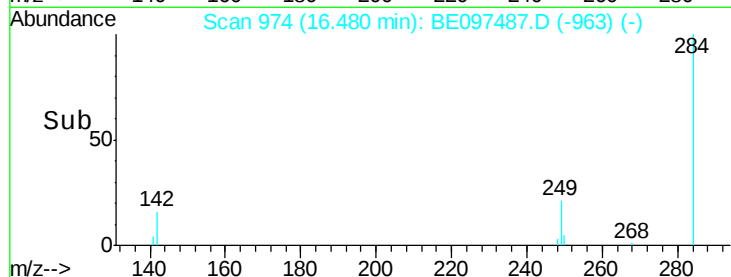
Instrument :
BNA_E
ClientSampleId :



Tgt Ion: 284 Resp: 735
Ion Ratio Lower Upper
284 100
142 40.7 31.0 46.4
249 35.0 25.8 38.8

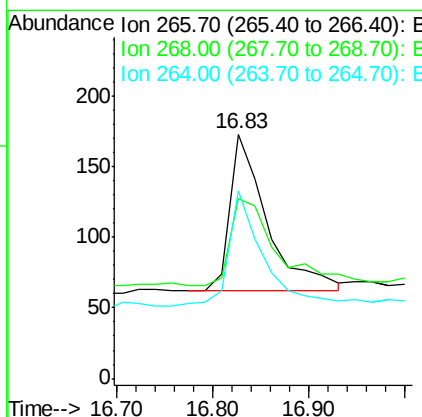
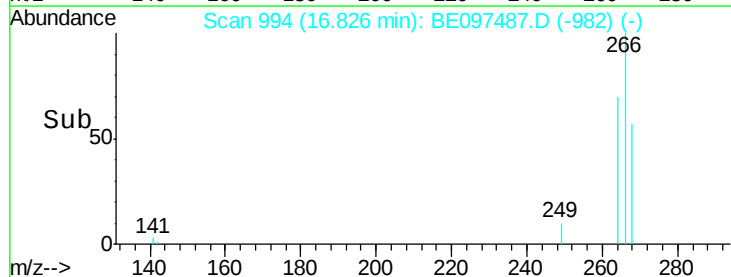
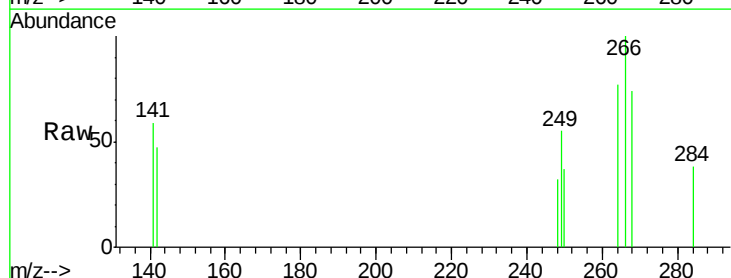
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#18
Pentachlorophenol
Concen: 0.24 ng
RT: 16.83 min Scan# 994
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion: 266 Resp: 299
Ion Ratio Lower Upper
266 100
268 74.0 48.2 72.2#
264 76.9 52.1 78.1





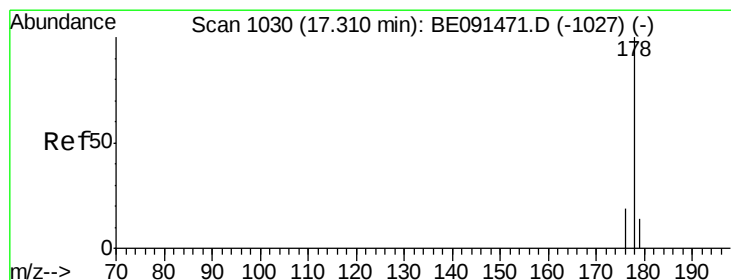
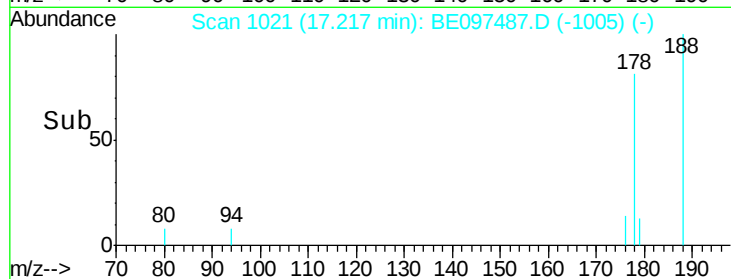
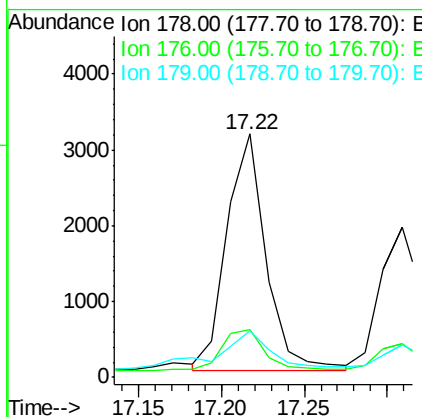
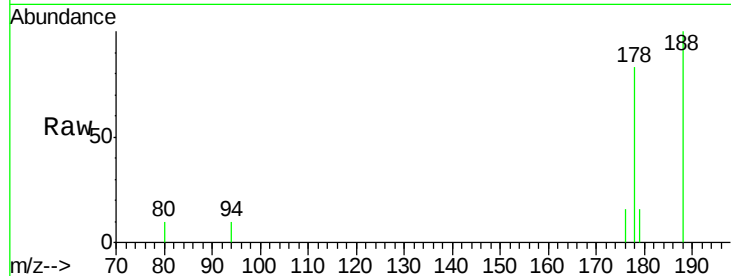
#19
Phenanthrene
Concen: 0.05 ng m
RT: 17.22 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :

Tgt Ion:178 Resp: 5123
Ion Ratio Lower Upper
178 100
176 11.8 15.5 23.3#
179 9.4 13.1 19.7#

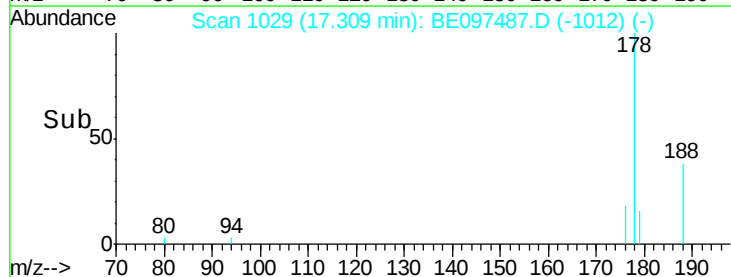
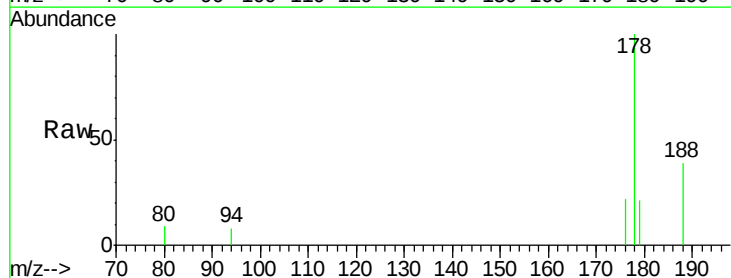
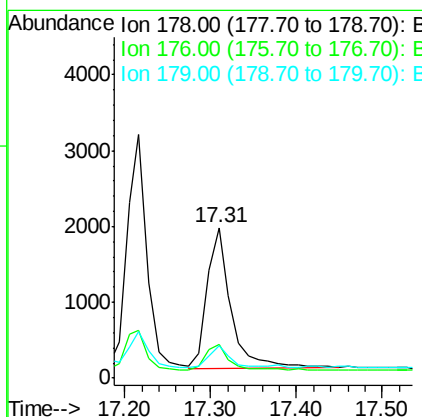
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#20
Anthracene
Concen: 0.04 ng
RT: 17.31 min Scan# 1029
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion:178 Resp: 3599
Ion Ratio Lower Upper
178 100
176 18.4 14.9 22.3
179 14.4 12.2 18.4





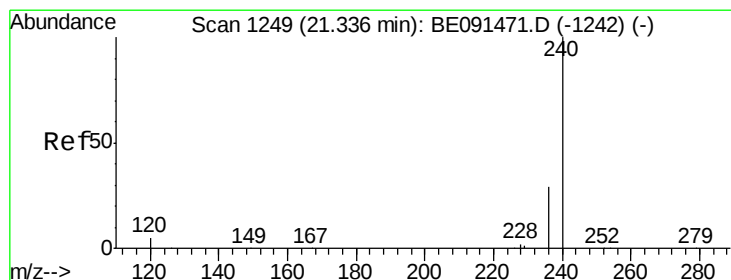
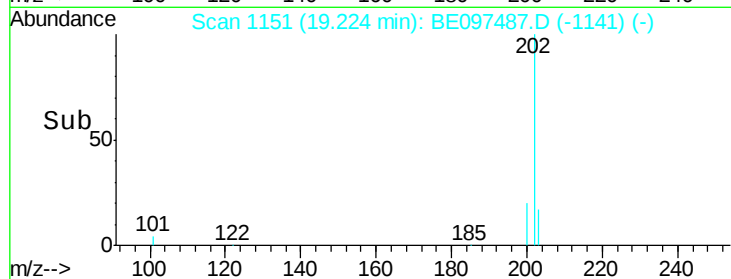
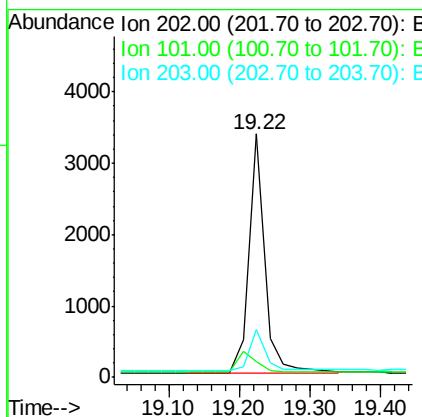
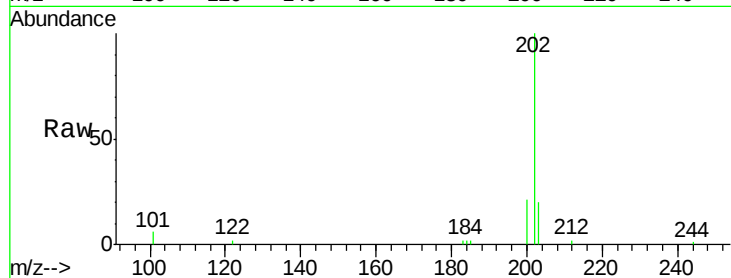
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.22 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: BE097487.D
 Acq: 18 Mar 2016 16:31

Instrument :
 BNA_E
 ClientSampleId :

Tgt	Ion	Ratio	Resp:	Lower	Upper
202	100		5347		
101	10.4	8.3	12.5		
203	18.5	13.9	20.9		

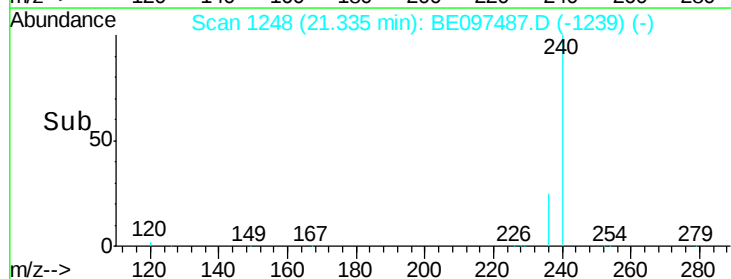
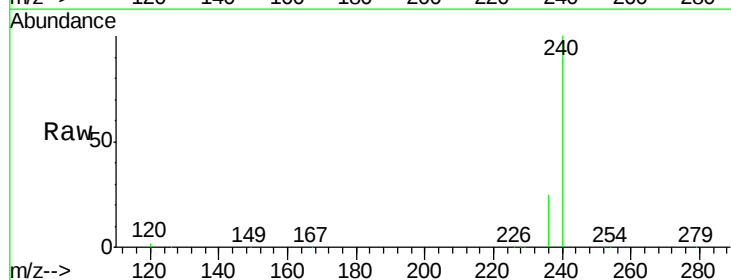
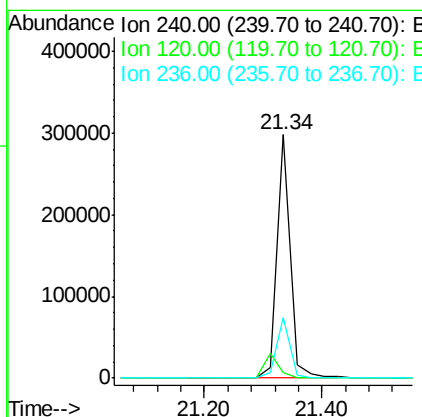
Manual Integrations
 APPROVED

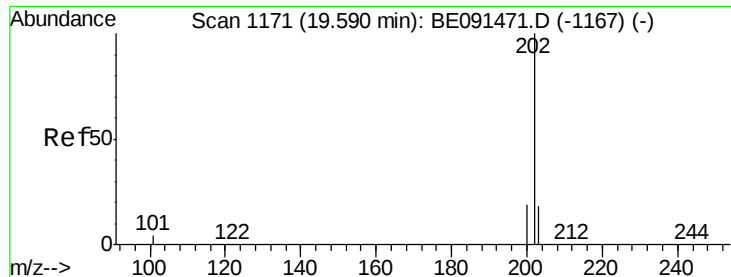
apatel
 3/21/2016 5:12:57 PM



#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: BE097487.D
 Acq: 18 Mar 2016 16:31

Tgt	Ion	Ratio	Resp:	Lower	Upper
240	100		464203		
120	2.1	4.0	6.0#		
236	24.9	23.0	34.4		





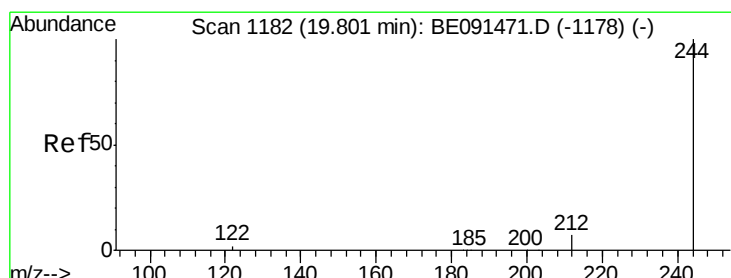
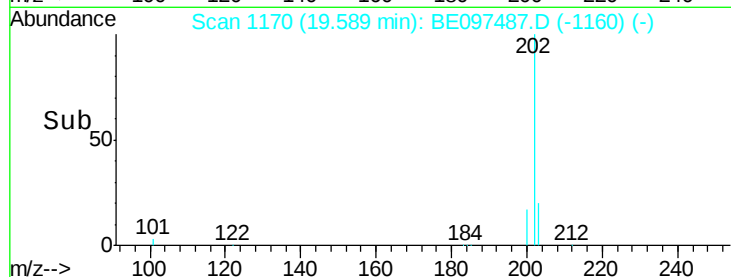
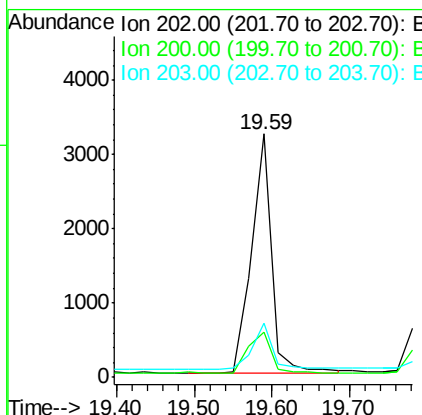
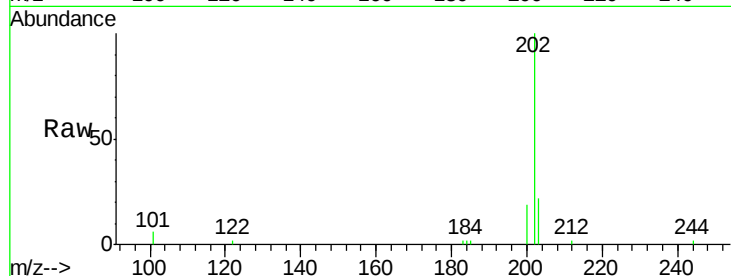
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.4	24.6
203	21.4	14.6	21.8

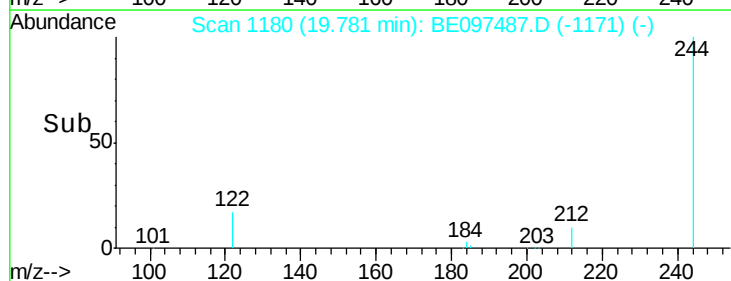
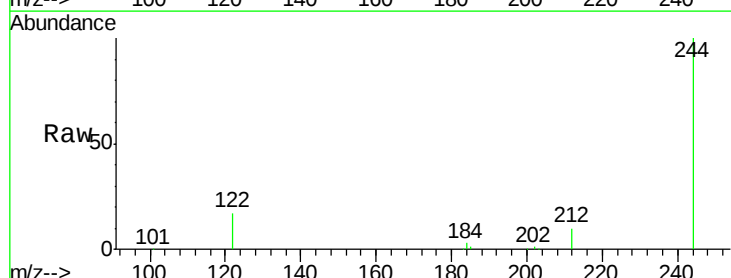
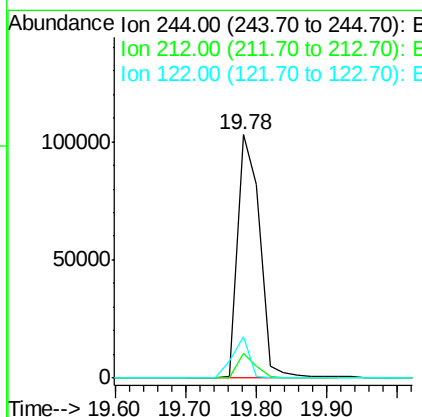
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#24
Terphenyl-d14
Concen: 4.04 ng
RT: 19.78 min Scan# 1180
Delta R.T. -0.02 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	5.8	8.8#
122	17.2	1.8	2.8#





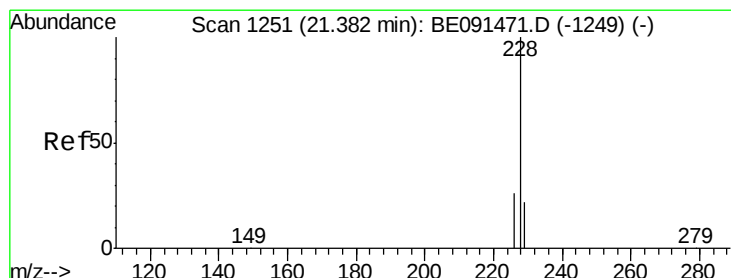
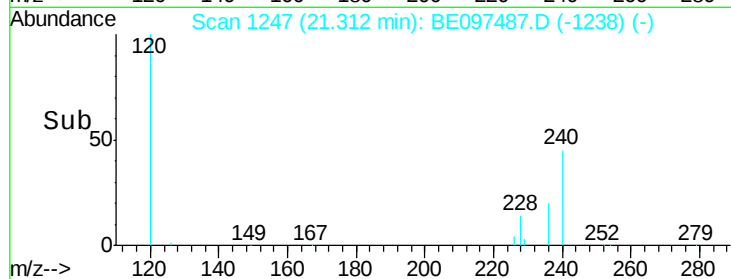
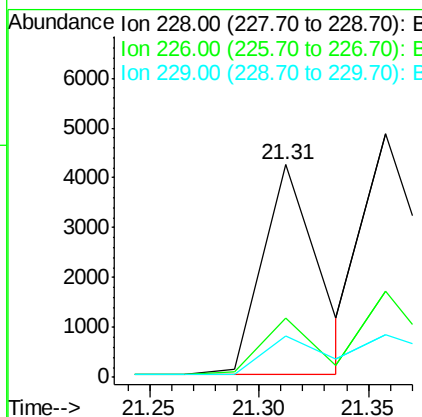
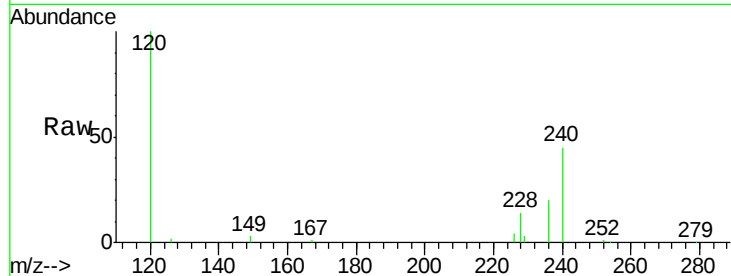
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	24.0	36.0
229	19.6	13.8	20.6

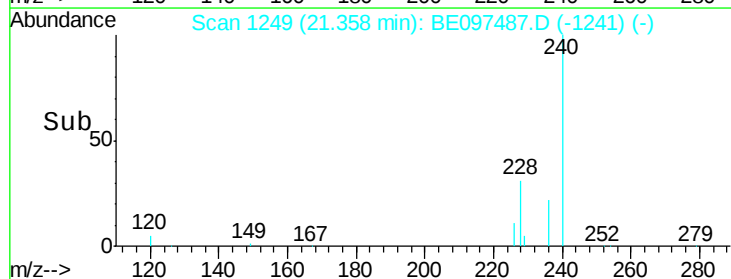
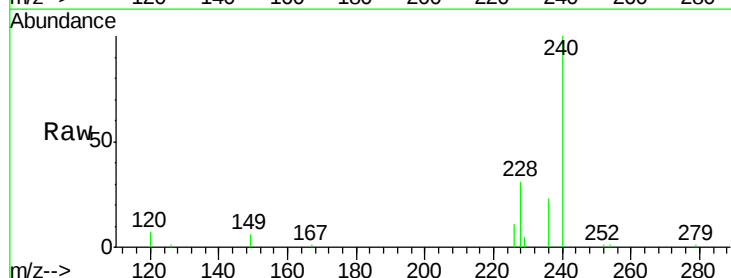
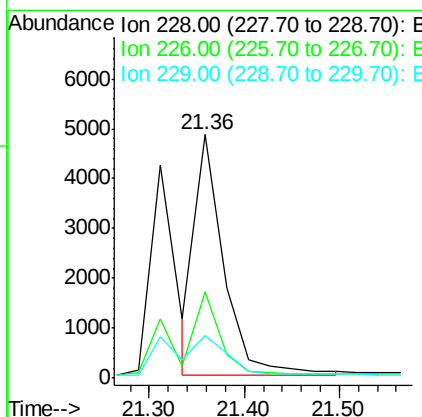
Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#26
Chrysene
Concen: 0.08 ng m
RT: 21.36 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.5	18.9	28.3#
229	17.8	19.1	28.7#





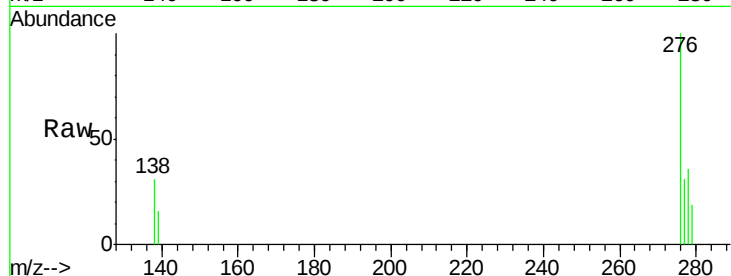
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.39 min Scan# 1651
Delta R.T. -0.01 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :

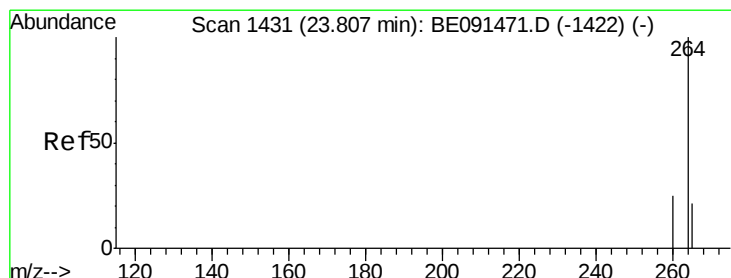
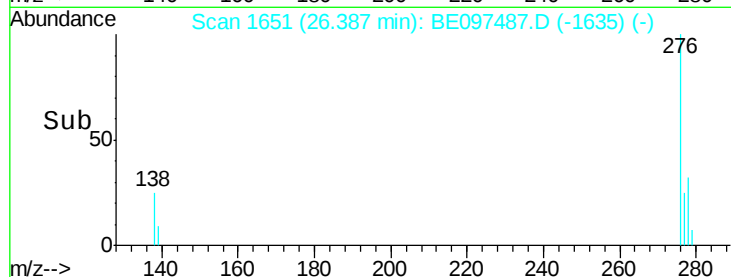
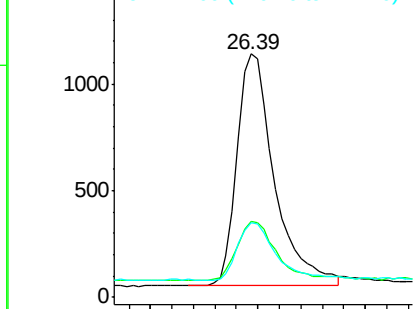
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.0	20.2	30.4
277	25.0	19.8	29.8

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



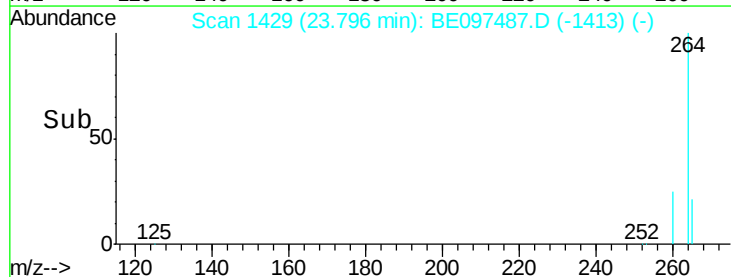
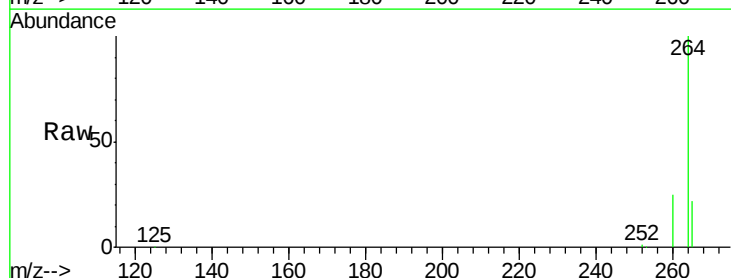
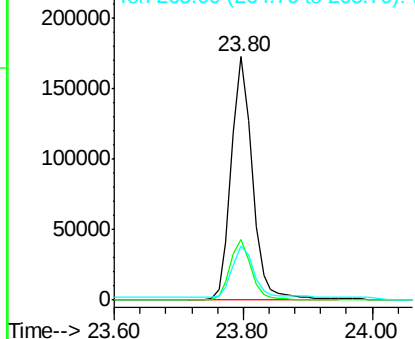
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

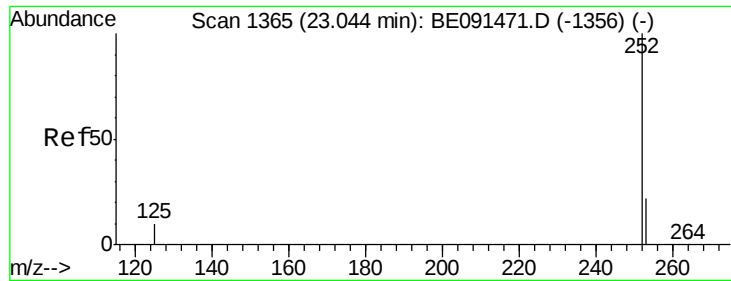


#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE097487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.1	30.1
265	22.5	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: 0.07 ng

RT: 23.03 min Scan# 1363

Delta R.T. -0.01 min

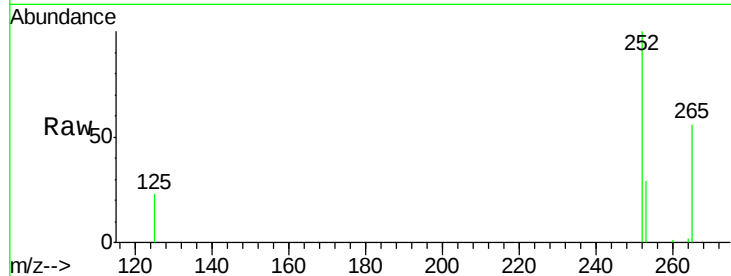
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

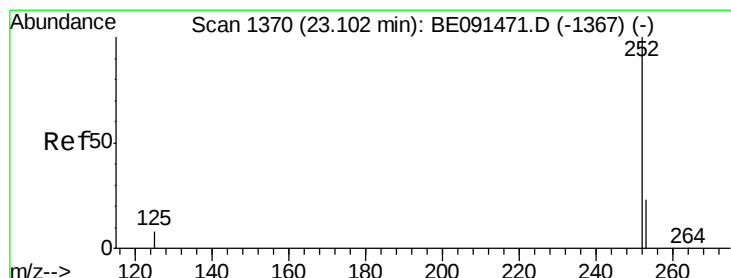
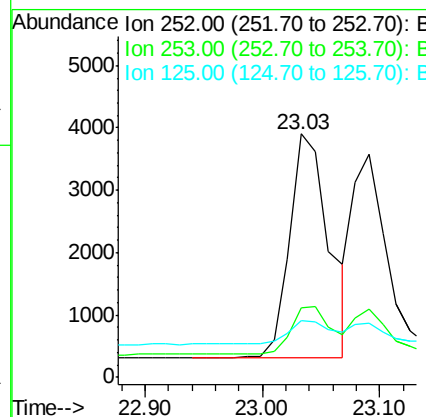
ClientSampled :



Tgt Ion:	252	Resp:	8400
Ion Ratio	Lower	Upper	
252	100		
253	28.6	18.7	28.1#
125	23.4	9.8	14.6#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#30

Benzo(k)fluoranthene

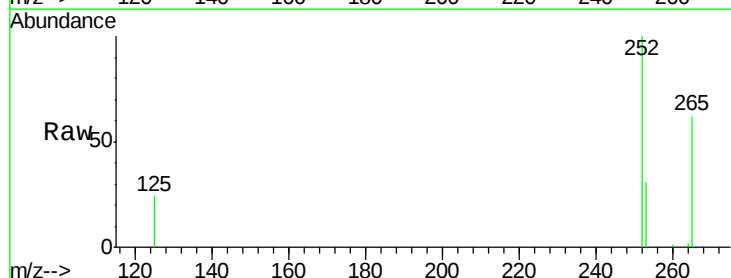
Concen: 0.05 ng

RT: 23.09 min Scan# 1368

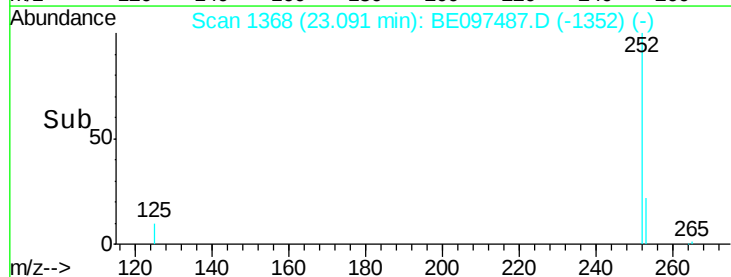
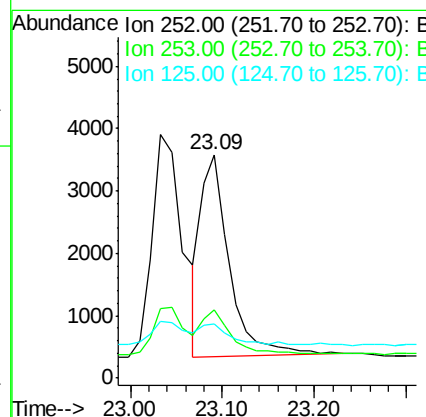
Delta R.T. -0.01 min

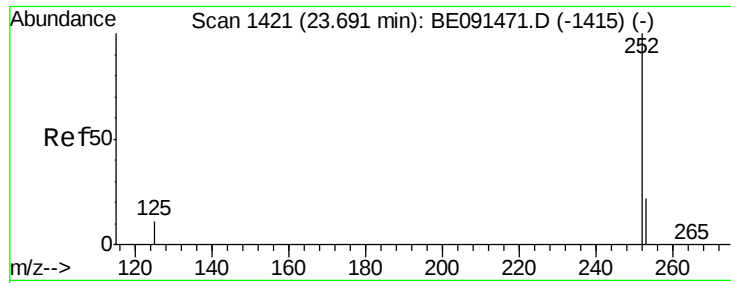
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31



Tgt Ion:	252	Resp:	6927
Ion Ratio	Lower	Upper	
252	100		
253	30.7	20.2	30.4#
125	24.1	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.68 min Scan# 1419

Delta R.T. -0.01 min

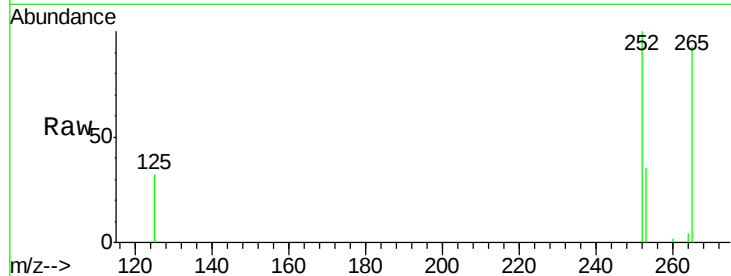
Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

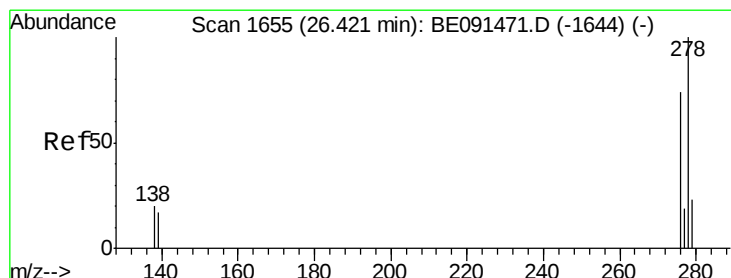
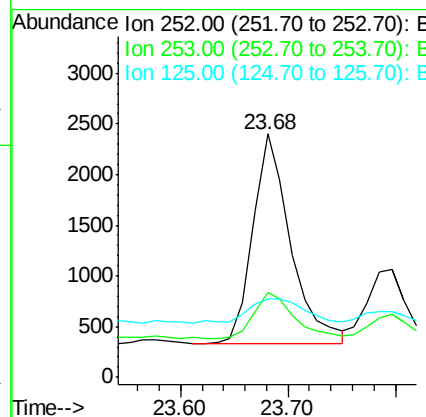
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.7	19.4	29.0#
125	32.0	11.4	17.2#

Manual Integrations
APPROVED

apatel
3/21/2016 5:12:57 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.04 ng

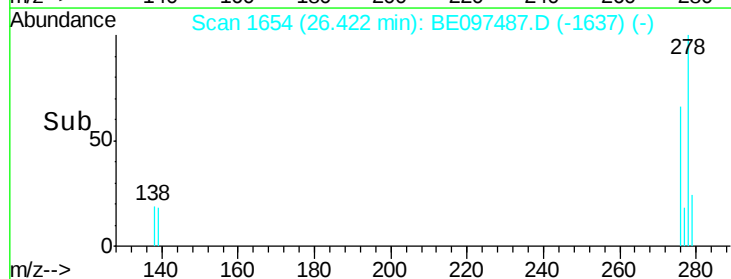
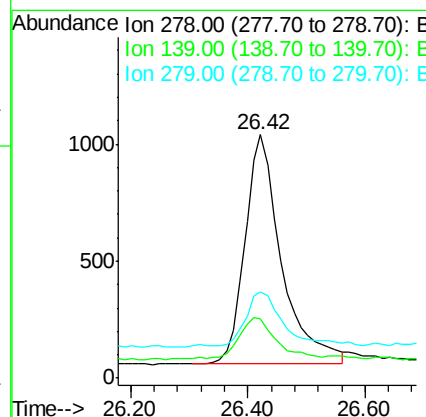
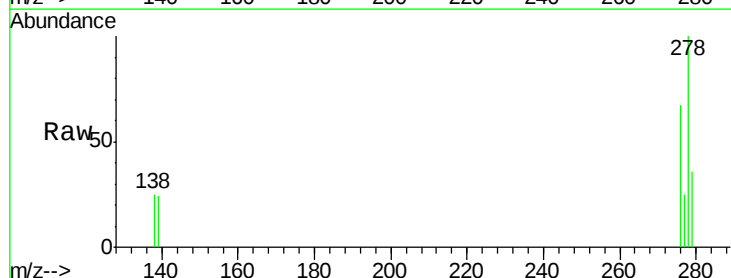
RT: 26.42 min Scan# 1654

Delta R.T. 0.00 min

Lab File: BE097487.D

Acq: 18 Mar 2016 16:31

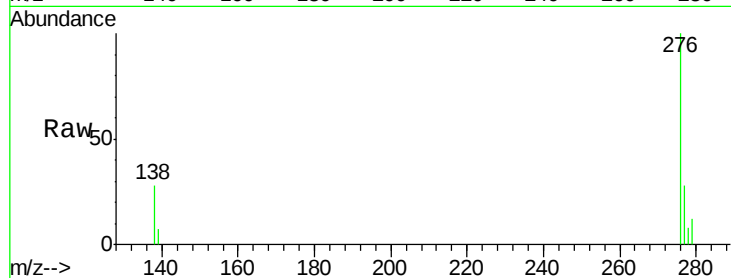
Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.3	14.2	21.4#
279	35.5	19.6	29.4#





#33
 Benzo(g,h,i)perylene
 Concen: 0.04 ng
 RT: 27.17 min Scan# 1719
 Delta R.T. -0.01 min
 Lab File: BE097487.D
 Acq: 18 Mar 2016 16:31

Instrument :
 BNA_E
 ClientSampleId :



Tgt Ion:	276	Resp:	4932
Ion Ratio	Lower	Upper	
276	100		
277	28.3	19.4	29.2
138	27.8	18.2	27.4#

Manual Integrations
 APPROVED

apatel
 3/21/2016 5:12:57 PM

