

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE097498.D
 Acq On : 21 Mar 2016 14:26
 Operator : UM/SJ
 Sample : MDL-03-W
 Misc : 0.08PPM
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Manual Integrations
 APPROVED

mohammad
 3/21/2016 6:40:10 PM

Quant Time: Mar 21 17:55:49 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	7.82	152	64093	5.00	ng	-0.02
6) Naphthalene-d8	10.59	136	275112	5.00	ng	-0.02
10) Acenaphthene-d10	14.45	164	153858	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	396527	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	525590	5.00	ng	0.00
28) Perylene-d12	23.80	264	468423	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	111974	7.60	ng	-0.02
5) Phenol-d6	6.97	99	146090	7.60	ng	-0.02
7) Nitrobenzene-d5	8.97	82	52581	3.56	ng	-0.01
11) 2,4,6-Tribromophenol	15.92	330	35080	6.24	ng	-0.01
12) 2-Fluorobiphenyl	13.06	172	175993	4.54	ng	-0.01
24) Terphenyl-d14	19.78	244	271548	4.30	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	852	0.11	ng	# 75
3) n-Nitrosodimethylamine	3.68	42	471	0.04	ng	# 95
8) Naphthalene	10.65	128	3823	0.06	ng	# 97
9) 2-Methylnaphthalene	12.26	142	2220	0.05	ng	# 89
13) Acenaphthylene	14.15	152	2701m	0.17	ng	
14) Acenaphthene	14.50	154	2506	0.05	ng	92
15) Fluorene	15.48	166	3205	0.05	ng	99
17) Hexachlorobenzene	16.48	284	1003	0.06	ng	96
18) Pentachlorophenol	16.83	266	566	0.26	ng	91
19) Phenanthrene	17.22	178	6980	0.06	ng	96
20) Anthracene	17.31	178	4969	0.05	ng	# 96
21) Fluoranthene	19.23	202	6363	0.05	ng	96
23) Pyrene	19.59	202	6572	0.05	ng	97
25) Benzo(a)anthracene	21.31	228	9487m	0.07	ng	
26) Chrysene	21.36	228	11675m	0.08	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	7628	0.05	ng	99
29) Benzo(b)fluoranthene	23.04	252	11310	0.08	ng	# 89
30) Benzo(k)fluoranthene	23.09	252	10060	0.07	ng	# 93
31) Benzo(a)pyrene	23.69	252	6989	0.05	ng	# 80
32) Dibenzo(a,h)anthracene	26.42	278	6127	0.05	ng	# 86
33) Benzo(g,h,i)perylene	27.18	276	6779	0.05	ng	95

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

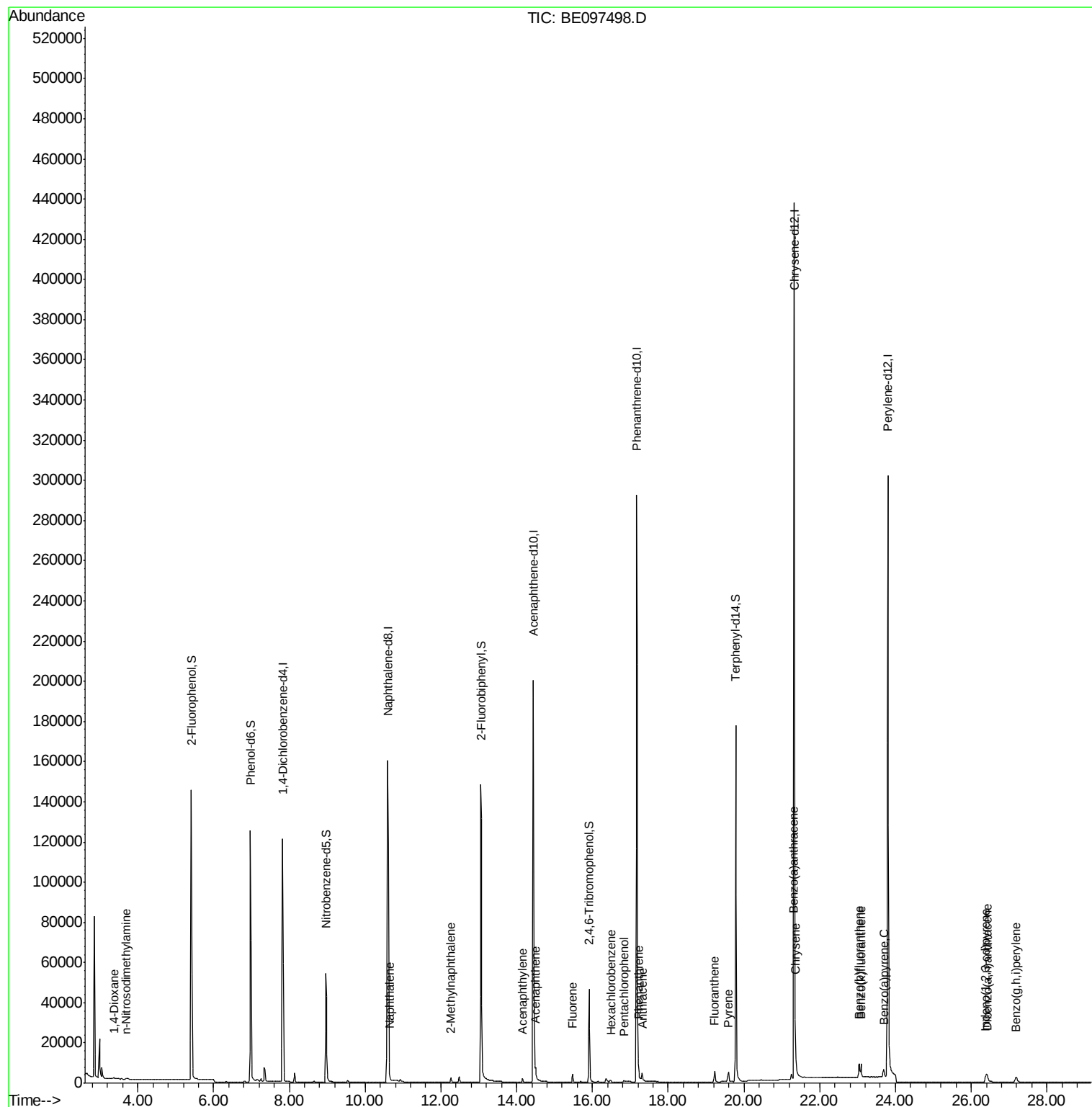
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
Data File : BE097498.D
Acq On : 21 Mar 2016 14:26
Operator : UM/SJ
Sample : MDL-03-W
Misc : 0.08PPM
ALS Vial : 13 Sample Multiplier: 1

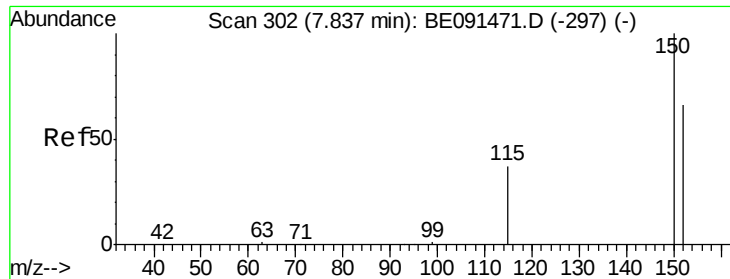
Instrument :
BNA_E
ClientSampleId :

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM

Quant Time: Mar 21 17:55:49 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

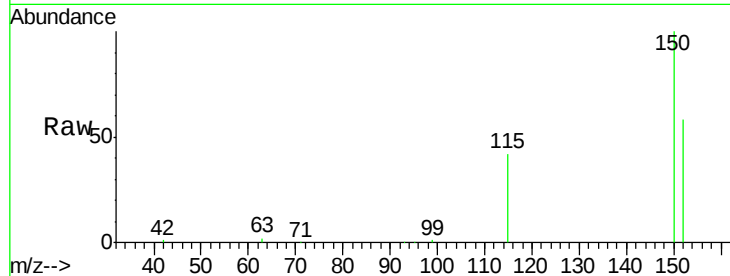




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. -0.02 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

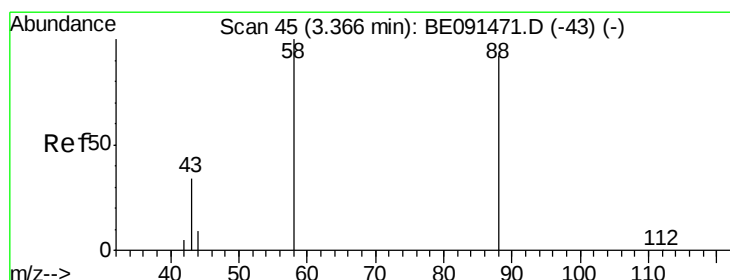
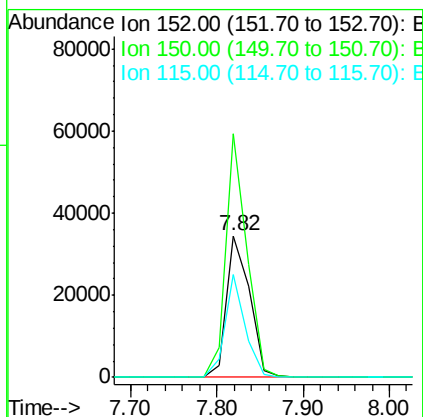
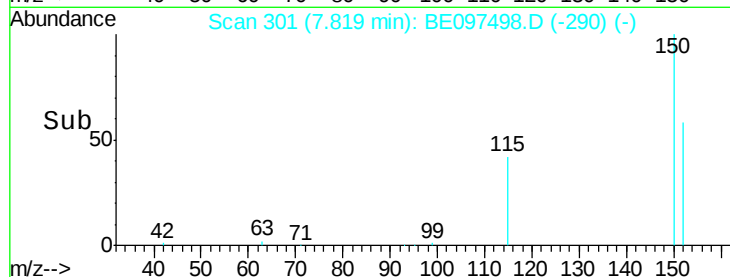
Instrument :
BNA_E
ClientSampleId :



Tgt Ion: 152 Resp: 64093
Ion Ratio Lower Upper
152 100
150 172.4 122.2 183.2
115 73.1 45.9 68.9#

Manual Integrations
APPROVED

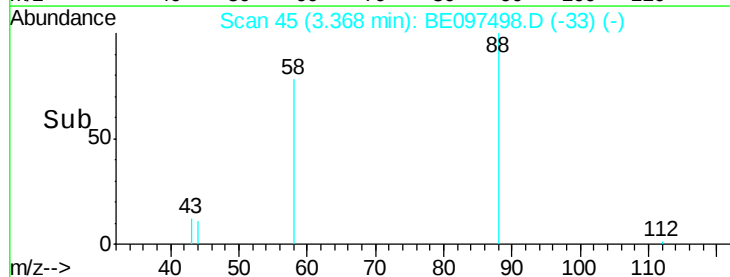
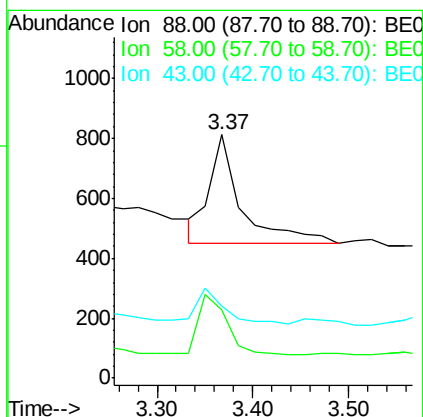
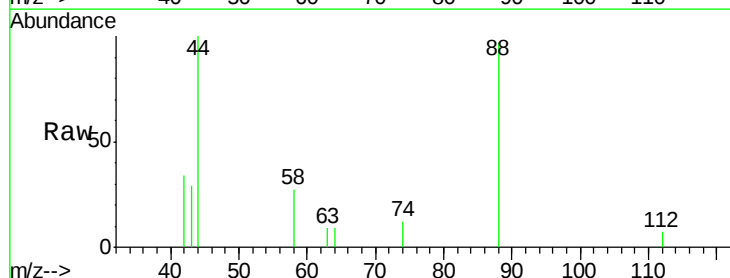
mohammad
3/21/2016 6:40:10 PM



#2

1,4-Dioxane
Concen: 0.11 ng
RT: 3.37 min Scan# 45
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion: 88 Resp: 852
Ion Ratio Lower Upper
88 100
58 47.8 61.0 91.6#
43 29.3 25.4 38.2





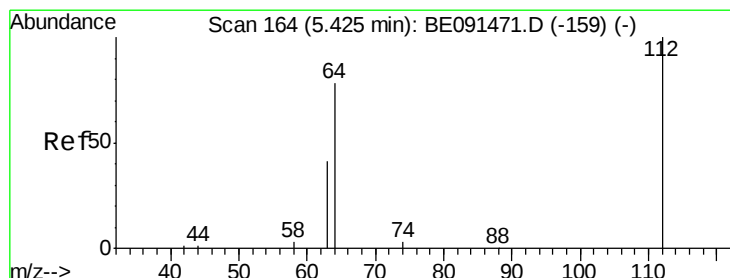
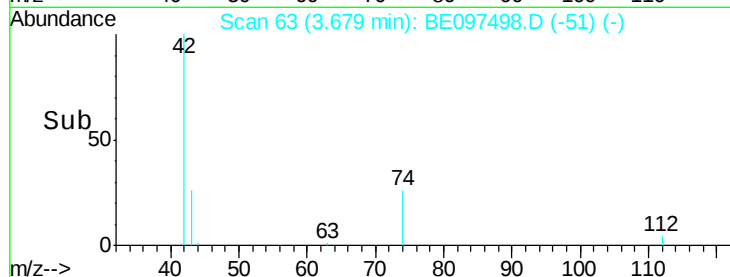
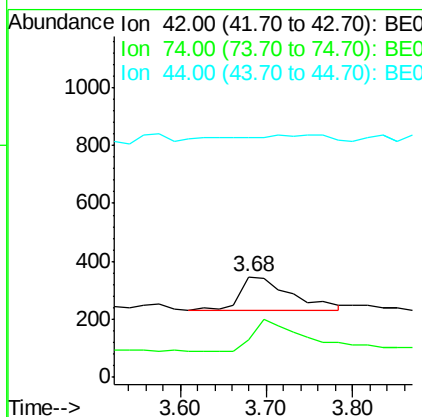
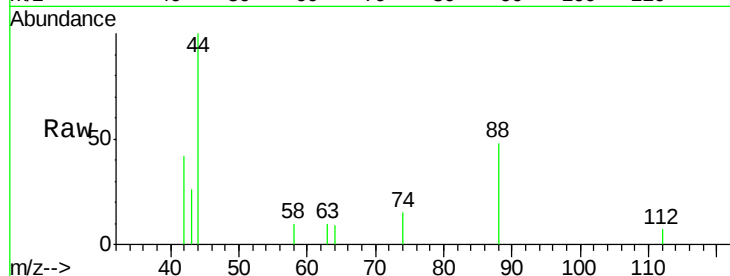
#3
n-Nitrosodimethylamine
Concen: 0.04 ng
RT: 3.68 min Scan# 63
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 42 Resp: 471
Ion Ratio Lower Upper
42 100
74 102.1 84.3 126.5
44 0.0 6.7 10.1#

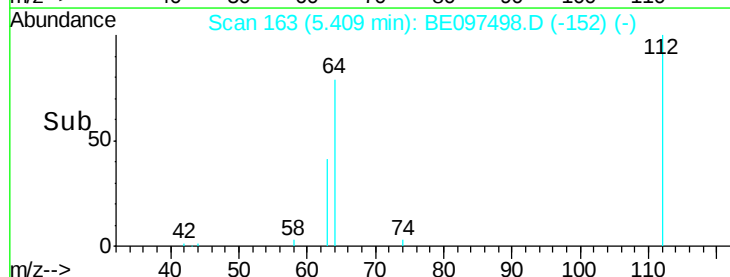
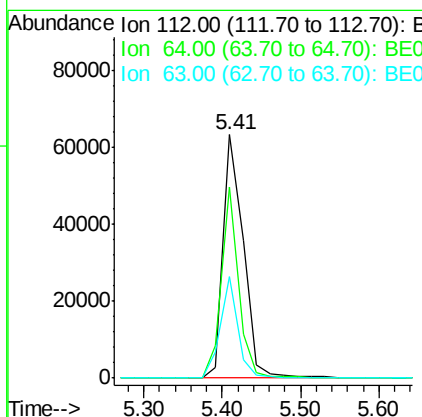
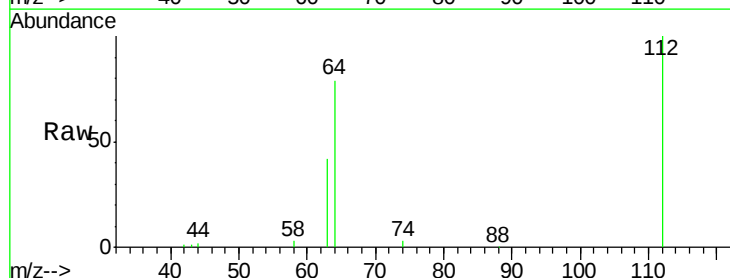
Manual Integrations
APPROVED

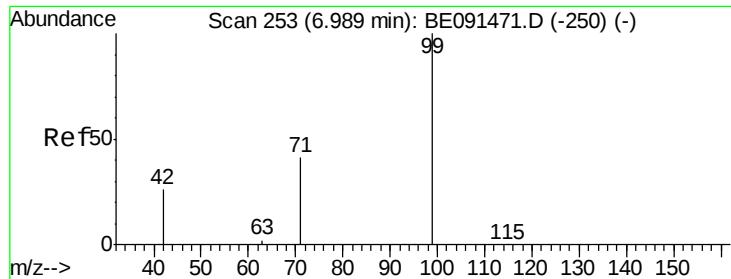
mohammad
3/21/2016 6:40:10 PM



#4
2-Fluorophenol
Concen: 7.60 ng
RT: 5.41 min Scan# 163
Delta R.T. -0.02 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion: 112 Resp: 111974
Ion Ratio Lower Upper
112 100
64 67.2 53.3 79.9
63 36.3 29.8 44.8





#5

Phenol-d6

Concen: 7.60 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

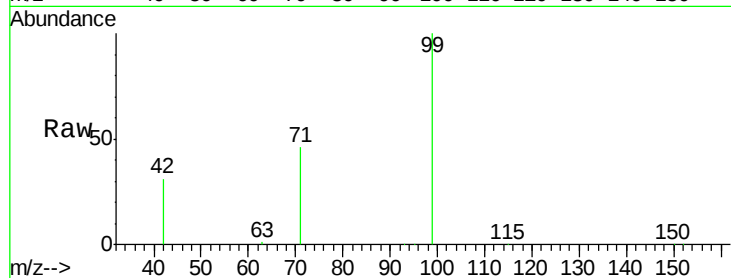
Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Instrument :

BNA_E

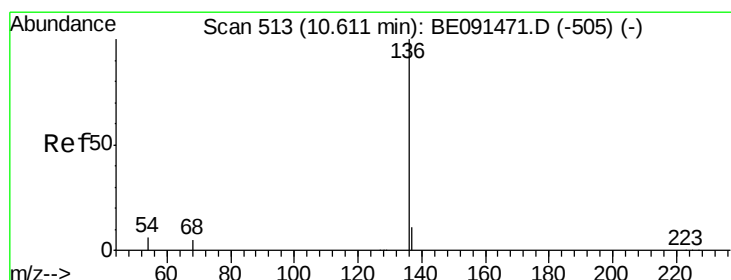
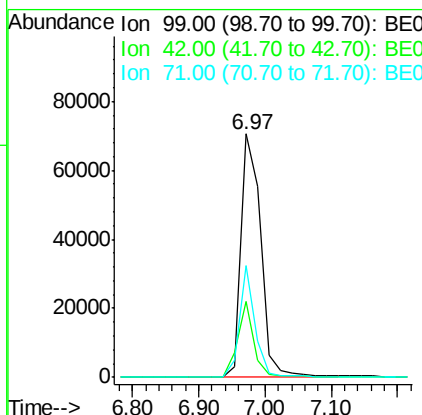
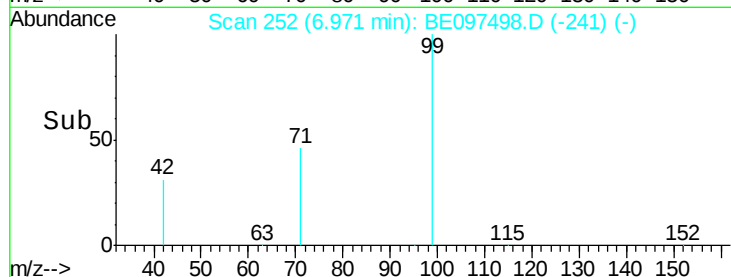
ClientSampleId :



Tgt Ion:	99	Resp:	146090
Ion Ratio	Lower	Upper	
99	100		
42	25.1	20.6	30.8
71	36.2	29.0	43.4

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#6

Naphthalene-d8

Concen: 5.00 ng

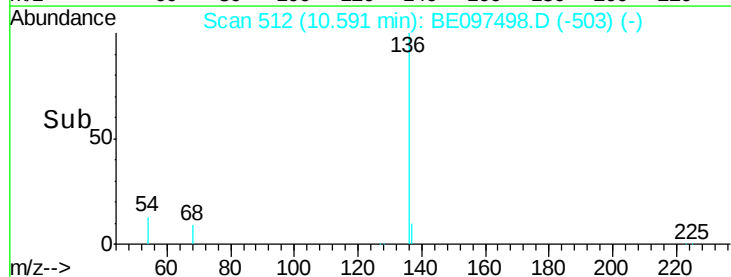
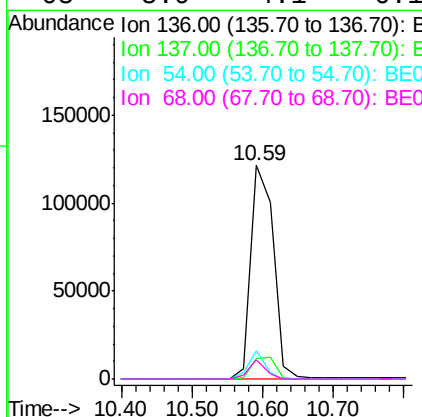
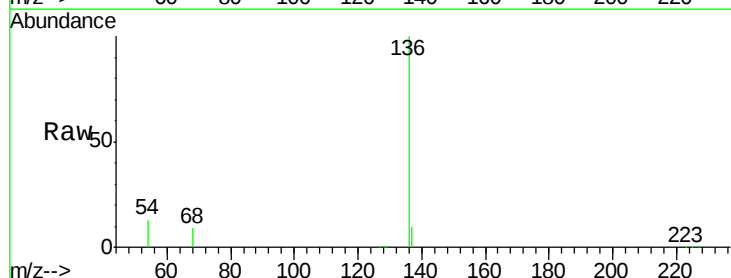
RT: 10.59 min Scan# 512

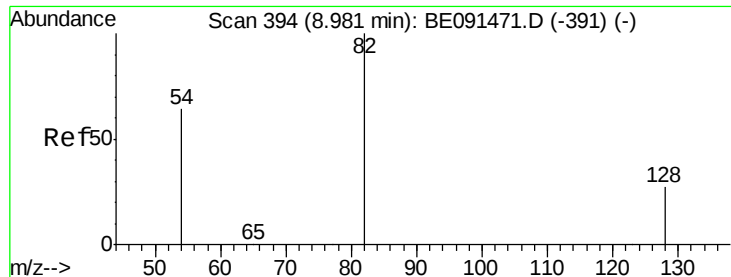
Delta R.T. -0.02 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Tgt Ion:	136	Resp:	275112
Ion Ratio	Lower	Upper	
136	100		
137	9.7	8.8	13.2
54	13.3	5.2	7.8#
68	8.9	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.56 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

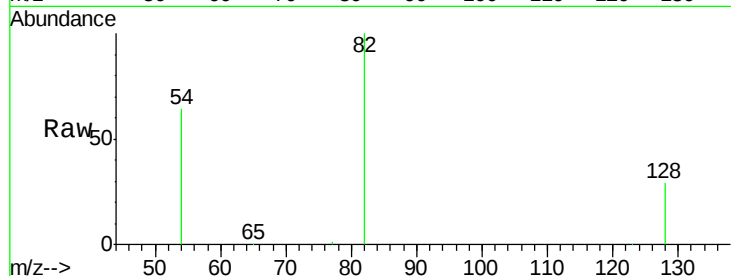
Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 82 Resp: 52581

Ion Ratio Lower Upper

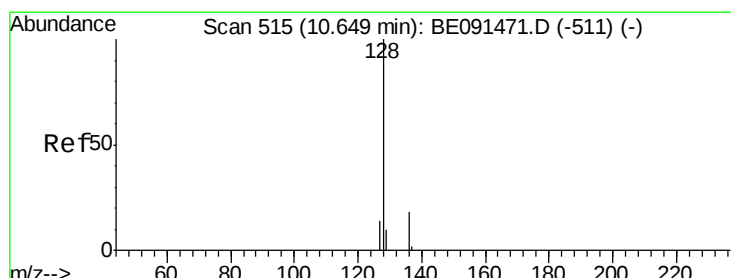
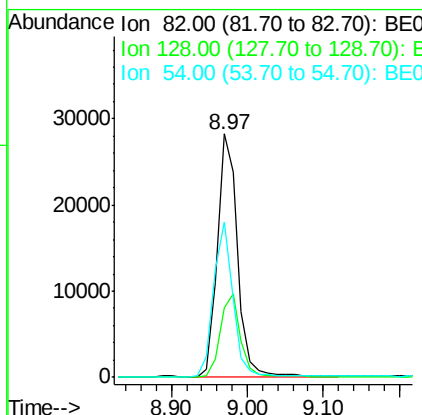
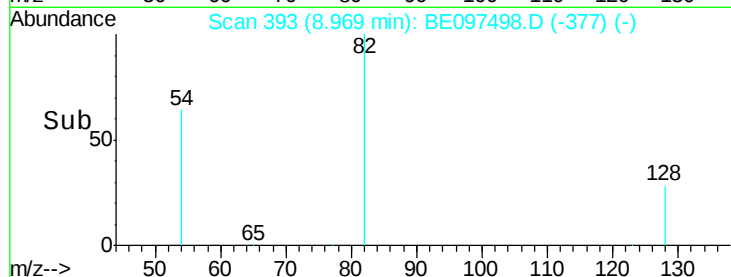
82 100

128 28.7 23.5 35.3

54 63.9 52.4 78.6

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#8

Naphthalene

Concen: 0.06 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

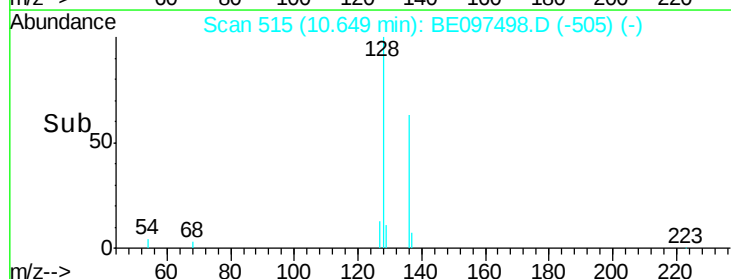
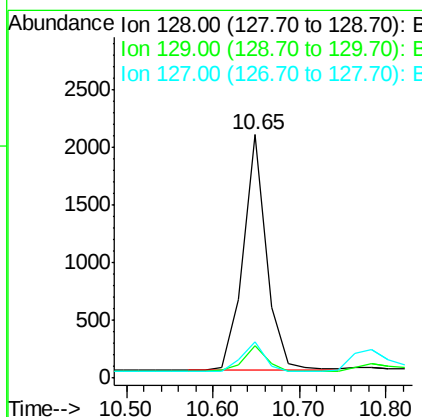
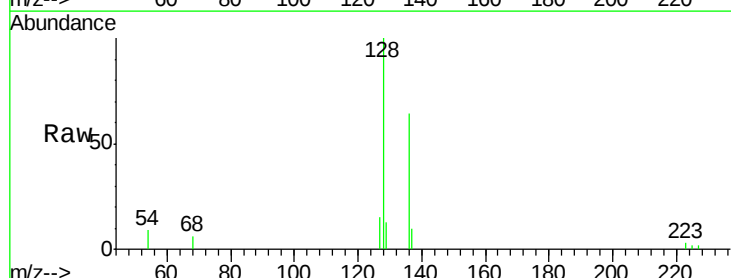
Tgt Ion: 128 Resp: 3823

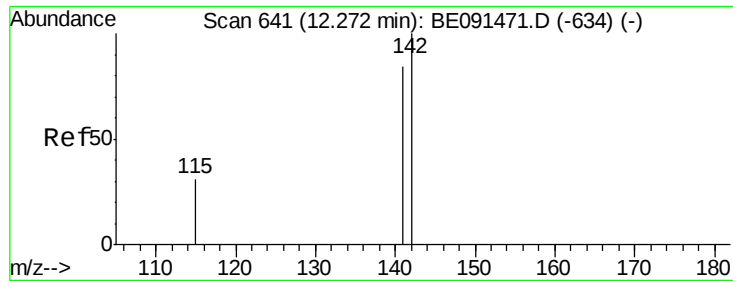
Ion Ratio Lower Upper

128 100

129 13.3 8.2 12.2#

127 14.9 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

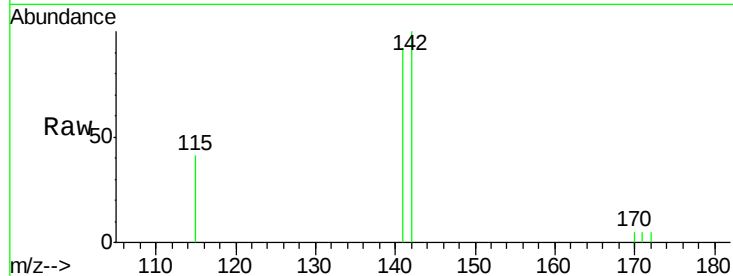
Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Instrument :

BNA_E

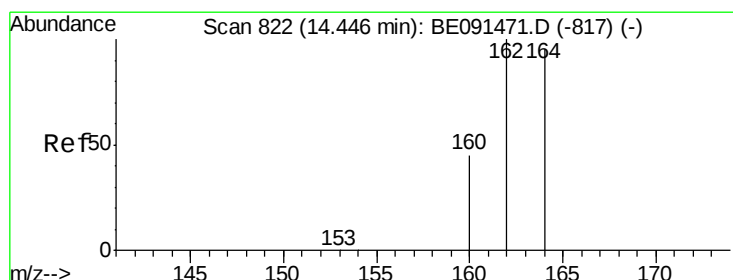
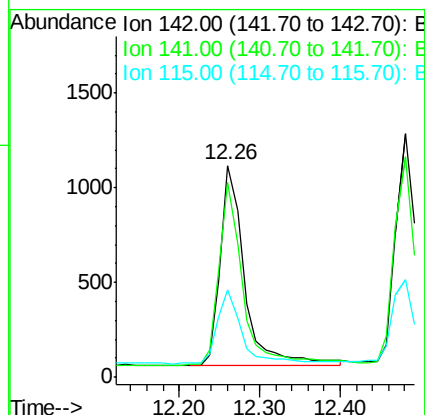
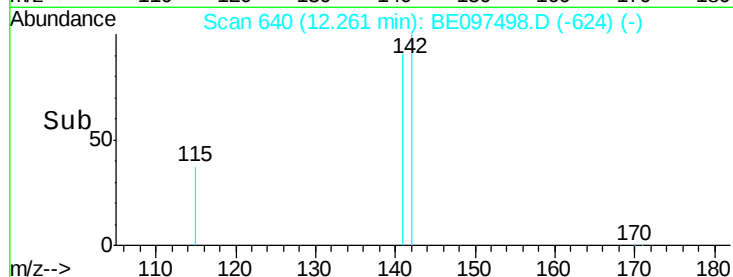
ClientSampleId :



Tgt Ion:	142	Resp:	2220
Ion Ratio	Lower	Upper	
142	100		
141	91.8	66.9	100.3
115	41.3	25.1	37.7

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#10

Acenaphthene-d10

Concen: 5.00 ng

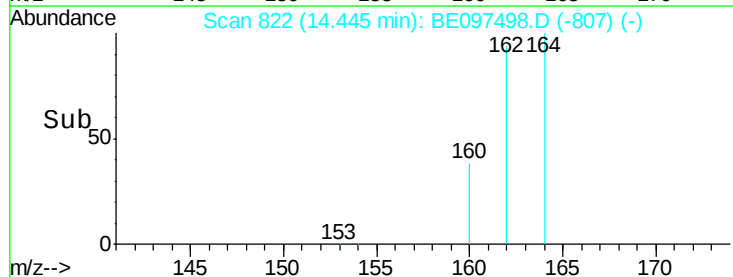
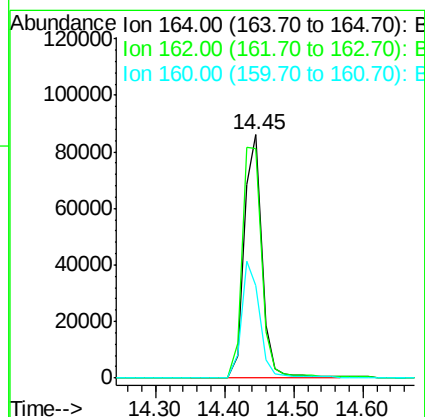
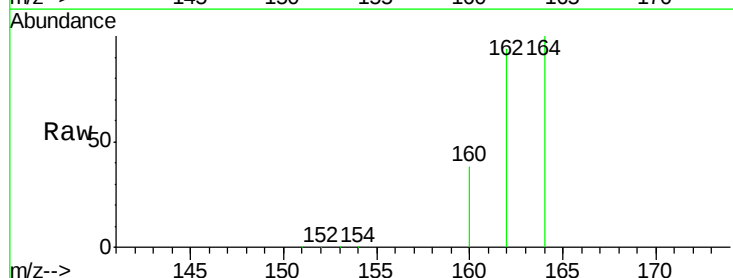
RT: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

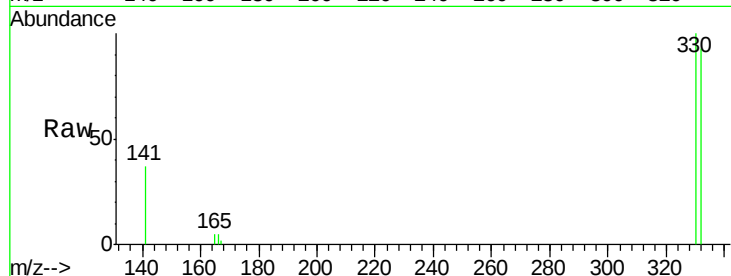
Tgt Ion:	164	Resp:	153858
Ion Ratio	Lower	Upper	
164	100		
162	94.2	84.4	126.6
160	38.1	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.24 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

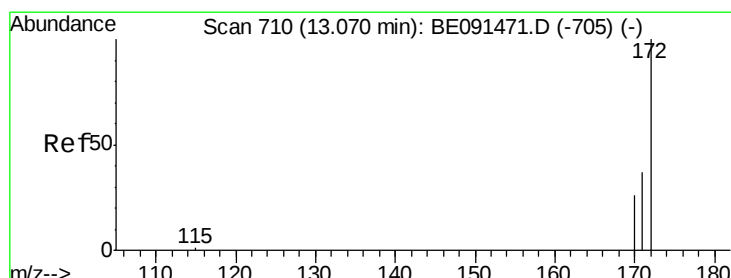
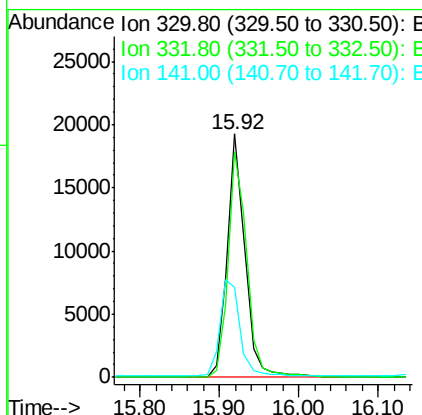
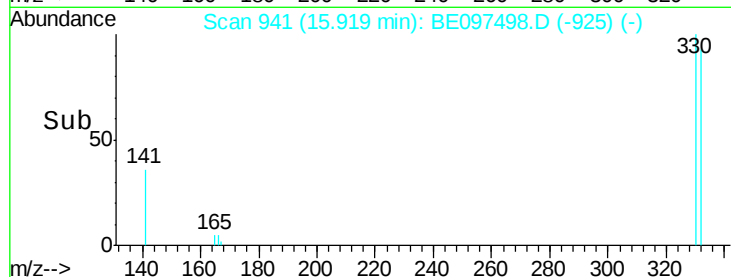
Instrument :
 BNA_E
 ClientSampled :



Tgt Ion	Ratio	Resp	Lower	Upper
330	100	35080		
332	97.8	79.2	118.8	
141	46.0	28.1	42.1	

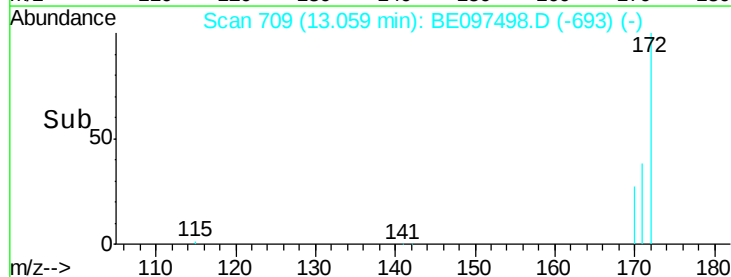
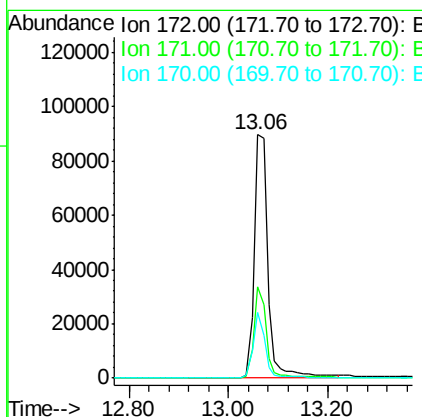
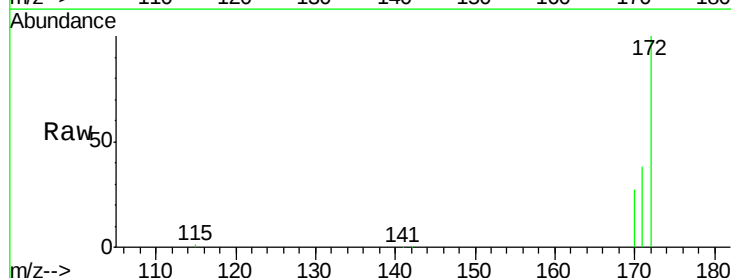
Manual Integrations
 APPROVED

mohammad
 3/21/2016 6:40:10 PM



#12
 2-Fluorobiphenyl
 Concen: 4.54 ng
 RT: 13.06 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	175993		
171	37.7	29.8	44.8	
170	27.2	21.4	32.2	





#13

Acenaphthylene

Concen: 0.17 ng m

RT: 14.15 min Scan# 800

Delta R.T. -0.01 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Instrument :

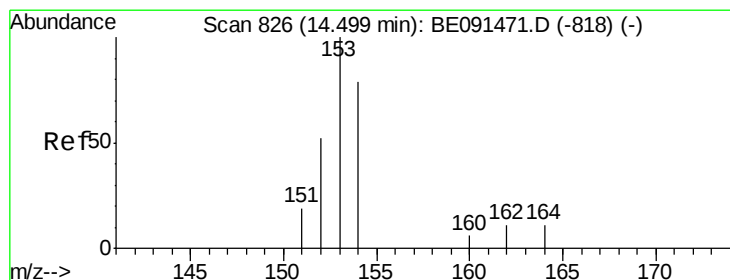
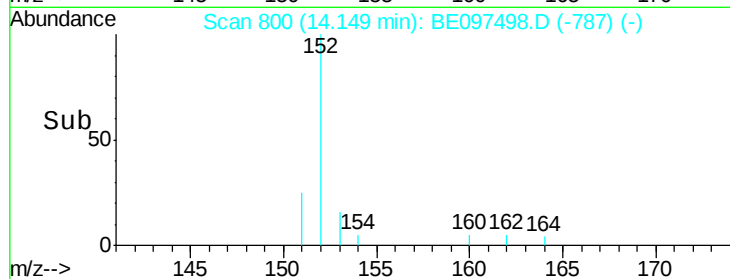
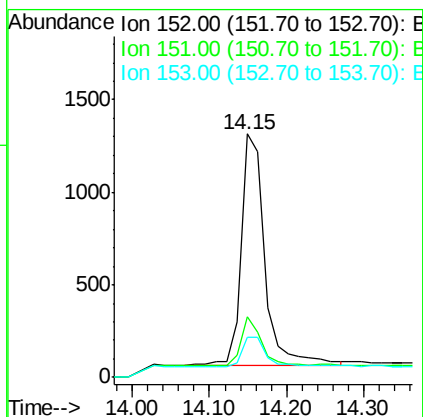
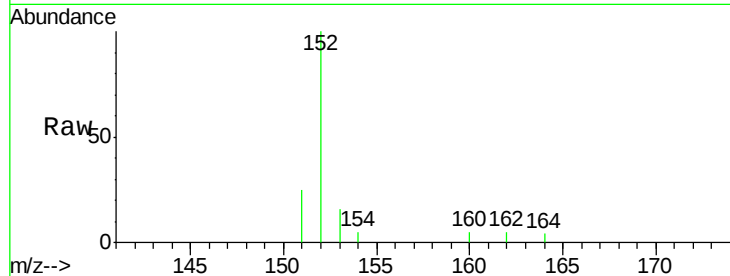
BNA_E

ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.2	16.3	24.5
153	15.8	11.1	16.7

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#14

Acenaphthene

Concen: 0.05 ng

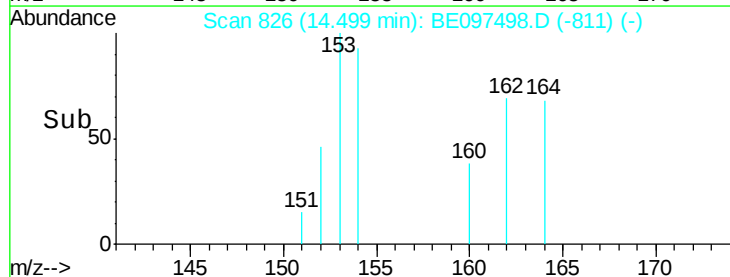
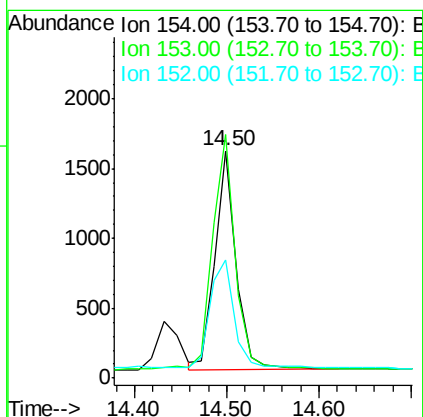
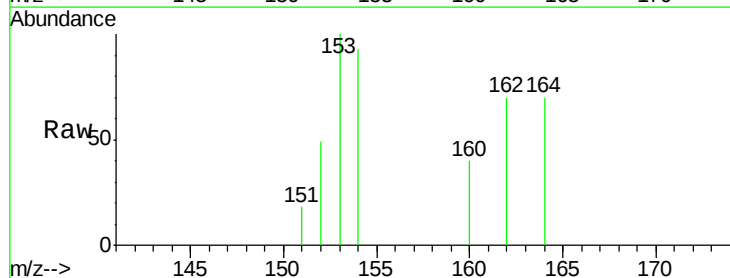
RT: 14.50 min Scan# 826

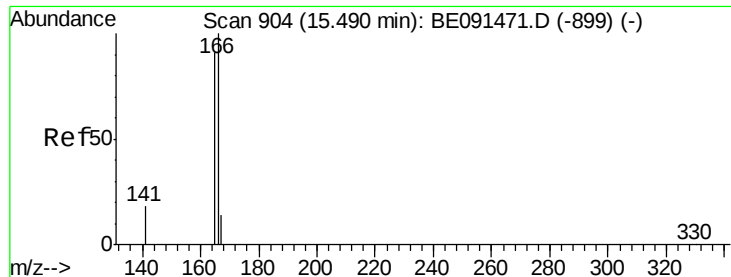
Delta R.T. -0.00 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Lower	Upper
154	100		
153	119.7	87.3	130.9
152	56.5	42.9	64.3





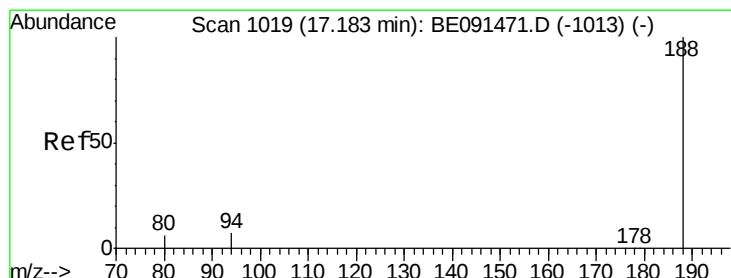
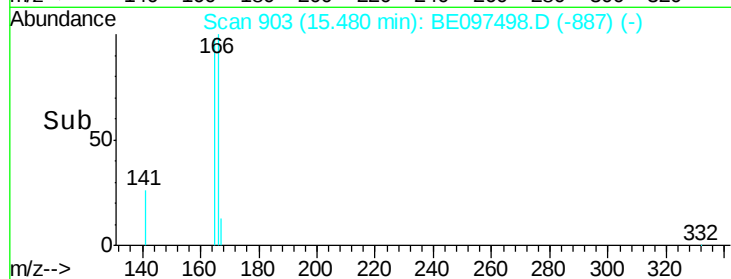
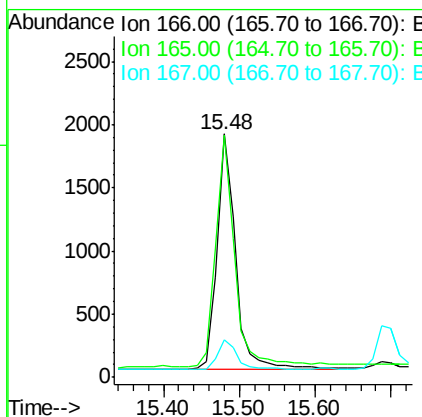
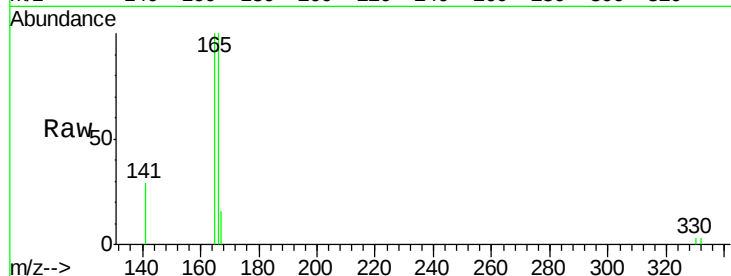
#15
Fluorene
 Concen: 0.05 ng
 RT: 15.48 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

Instrument :
 BNA_E
 ClientSampled :

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.2	118.8
167	14.4	10.8	16.2

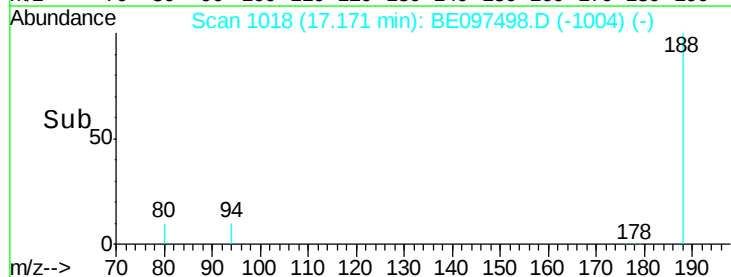
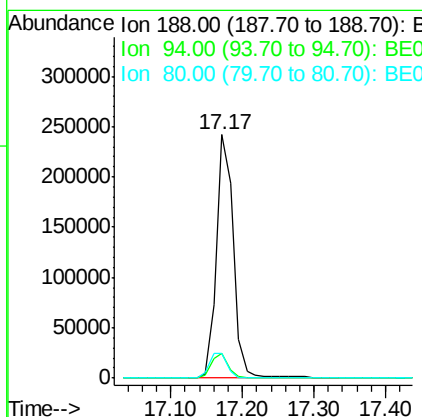
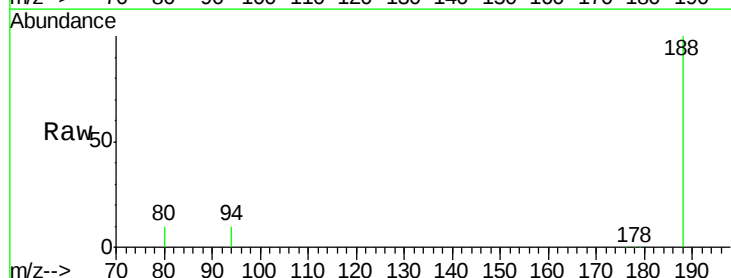
Manual Integrations
 APPROVED

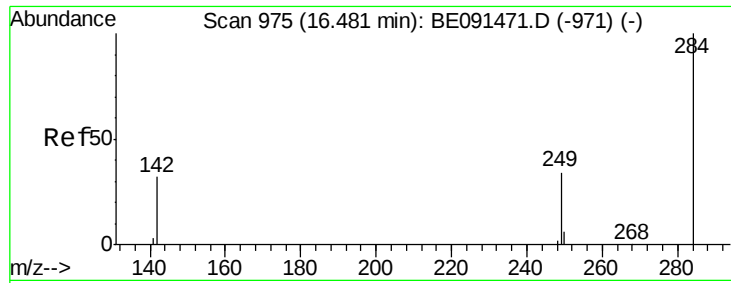
mohammad
 3/21/2016 6:40:10 PM



#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.17 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

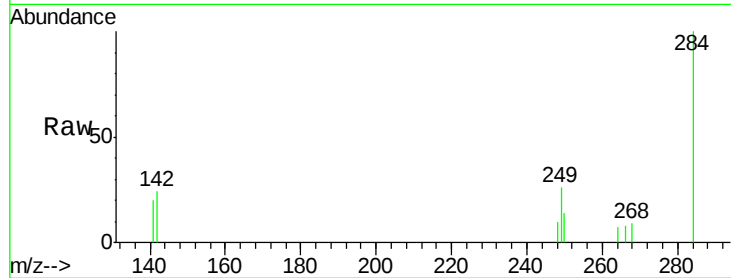
Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	5.4	8.2#
80	10.4	5.0	7.4#





#17
Hexachlorobenzene
Concen: 0.06 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

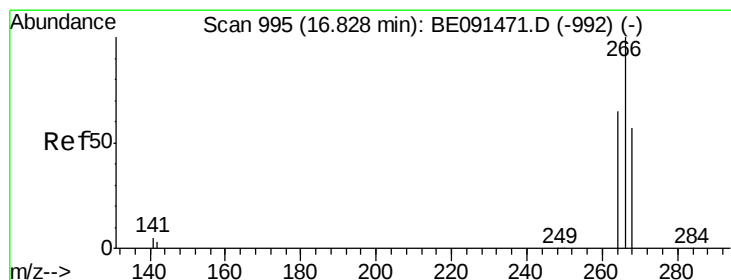
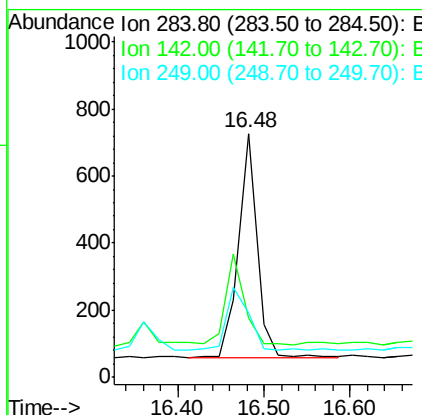
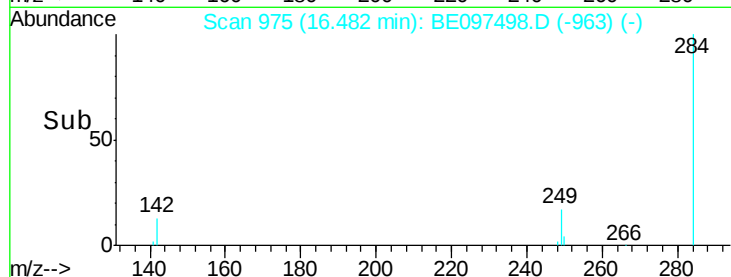
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.9	31.0	46.4
249	33.3	25.8	38.8

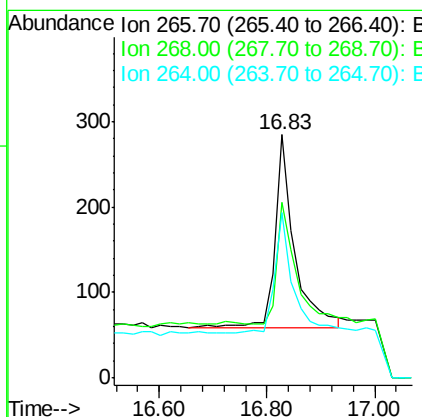
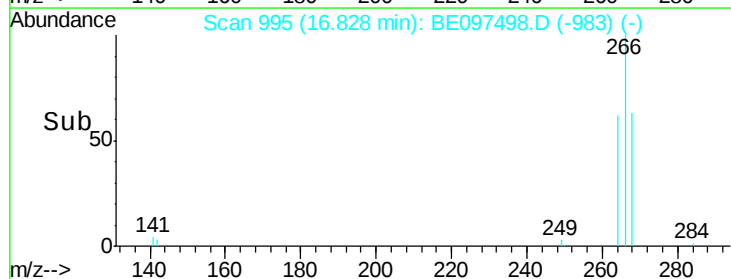
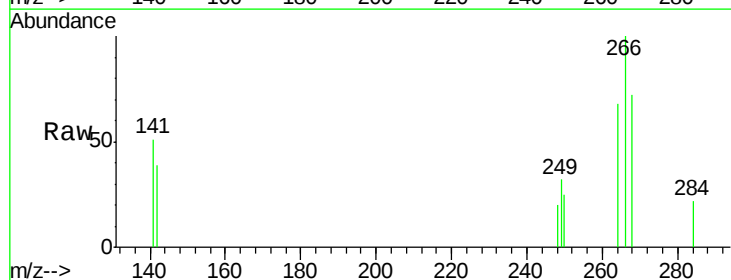
Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#18
Pentachlorophenol
Concen: 0.26 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

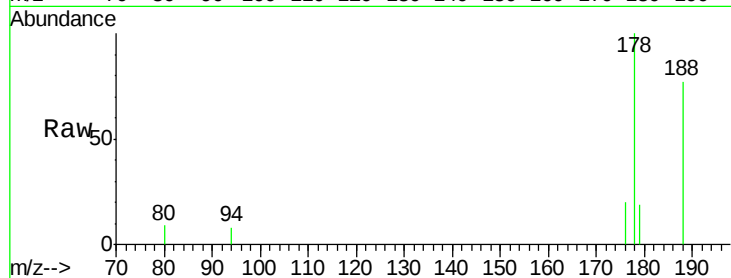
Tgt Ion	Ratio	Lower	Upper
266	100		
268	71.9	48.2	72.2
264	68.1	52.1	78.1





#19
Phenanthrene
Concen: 0.06 ng
RT: 17.22 min Scan# 1022
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

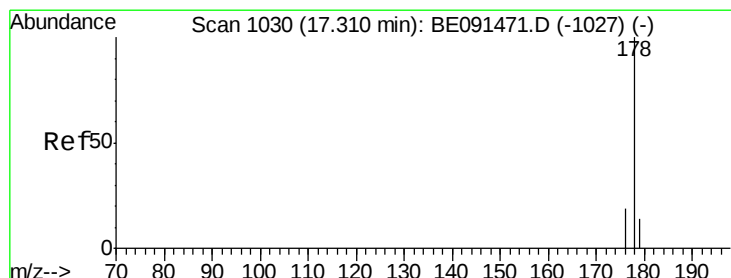
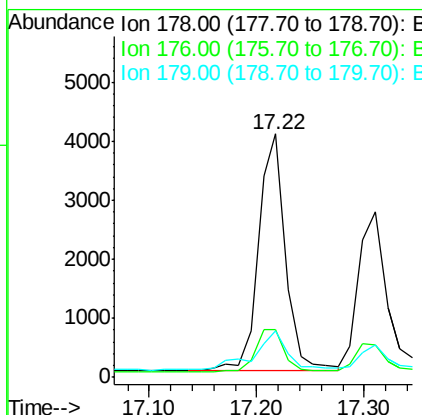
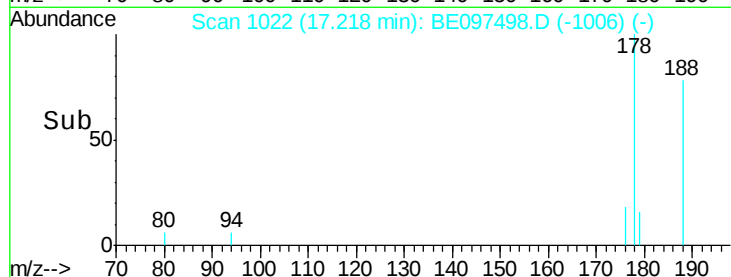
Instrument :
BNA_E
ClientSampled :



Tgt Ion:178 Resp: 6980
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 19.5 13.1 19.7

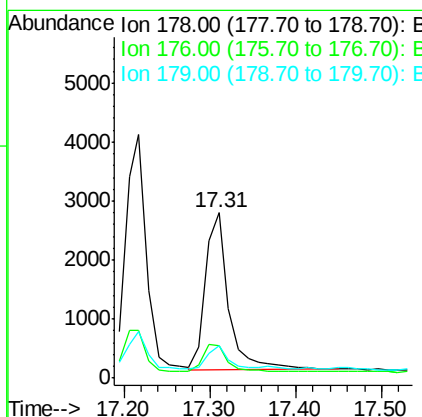
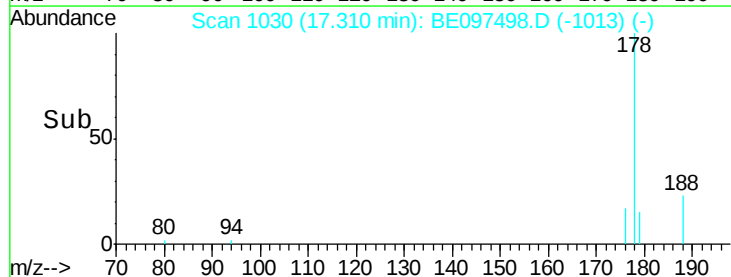
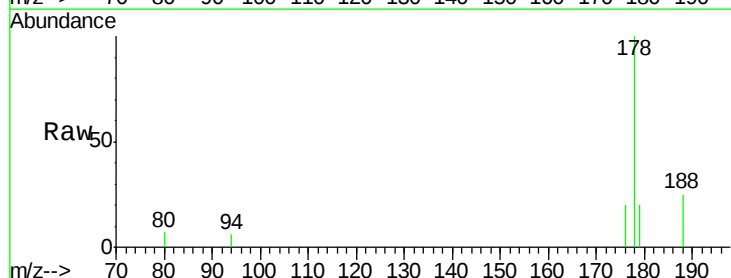
Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#20
Anthracene
Concen: 0.05 ng
RT: 17.31 min Scan# 1030
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion:178 Resp: 4969
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 12.1 12.2 18.4#





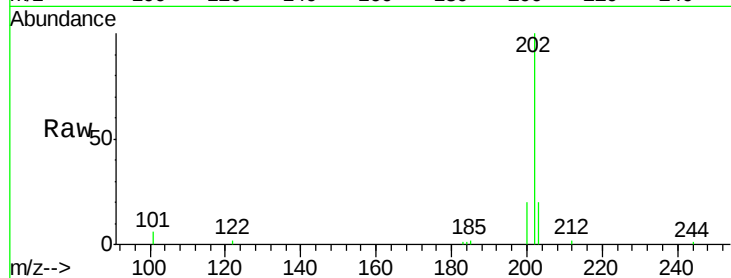
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.23 min Scan# 1152
 Delta R.T. 0.00 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

Instrument :
 BNA_E
 ClientSampleId :

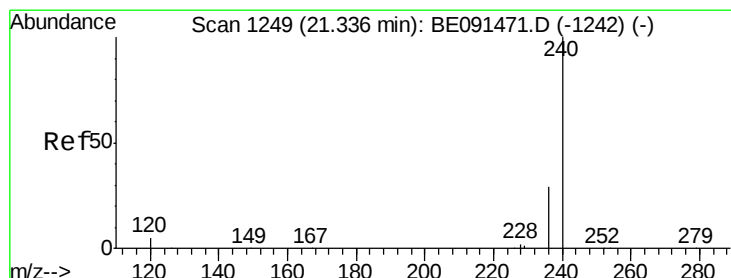
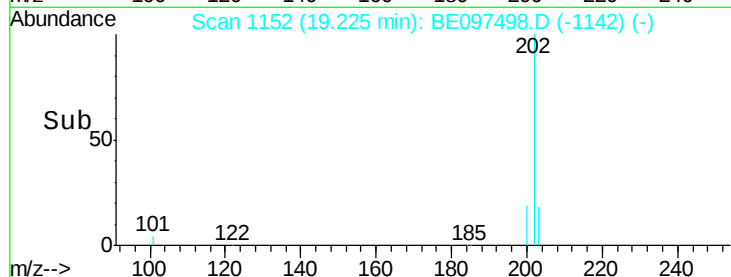
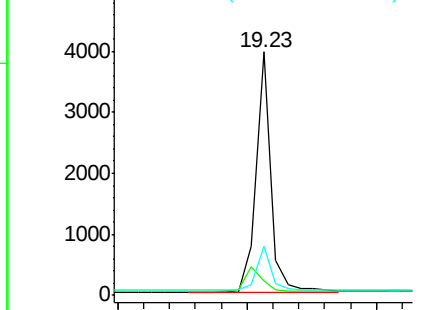
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	8.3	12.5
203	19.1	13.9	20.9

Manual Integrations
 APPROVED

mohammad
 3/21/2016 6:40:10 PM

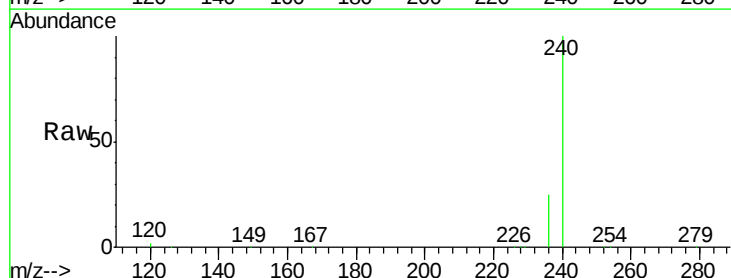


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

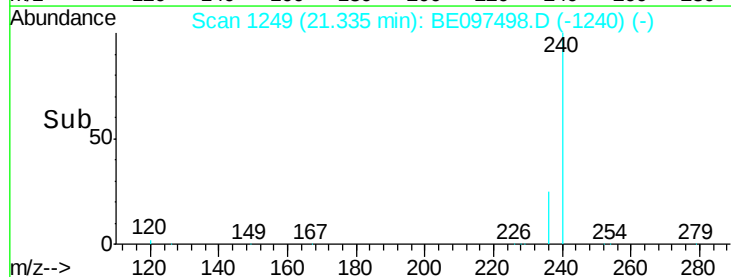
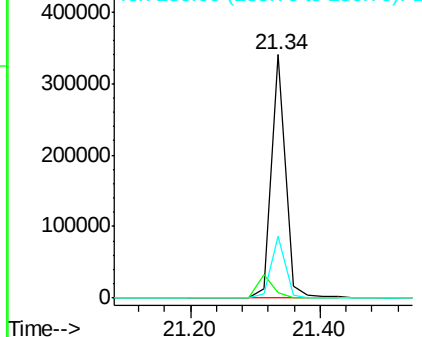


#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.34 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Lower	Upper
240	100		
120	2.2	4.0	6.0#
236	25.3	23.0	34.4



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





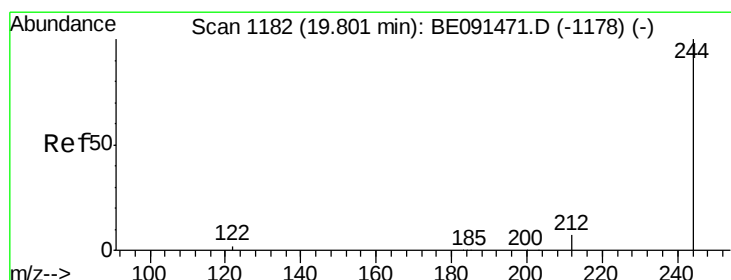
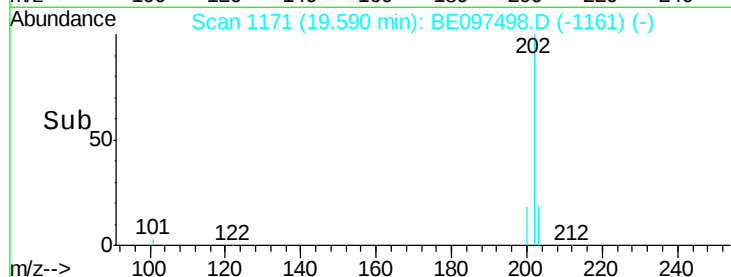
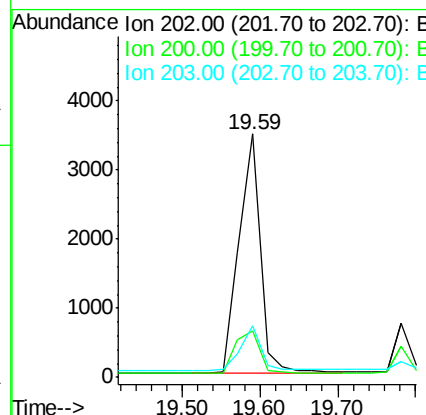
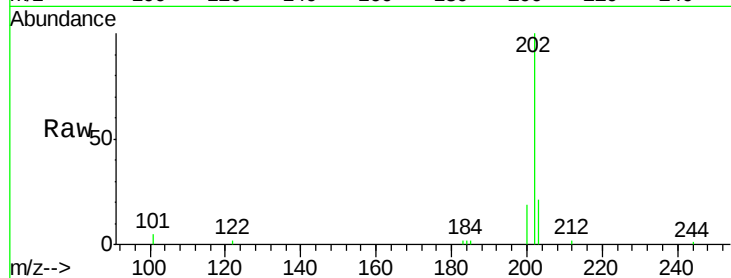
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.3	16.4	24.6
203	20.1	14.6	21.8

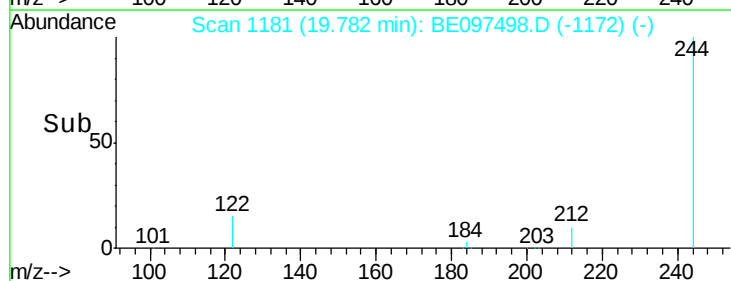
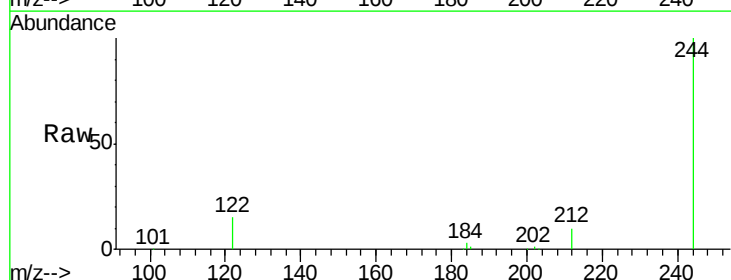
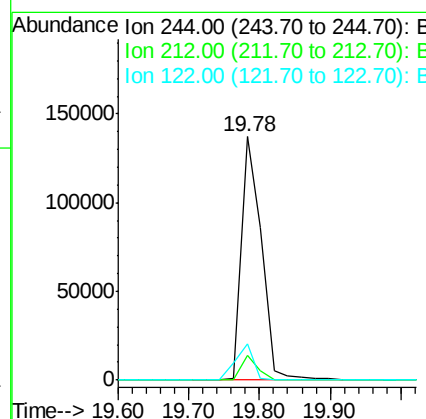
Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#24
Terphenyl-d14
Concen: 4.30 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.9	5.8	8.8#
122	14.9	1.8	2.8#





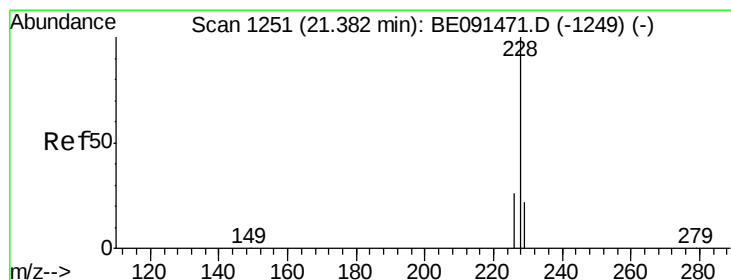
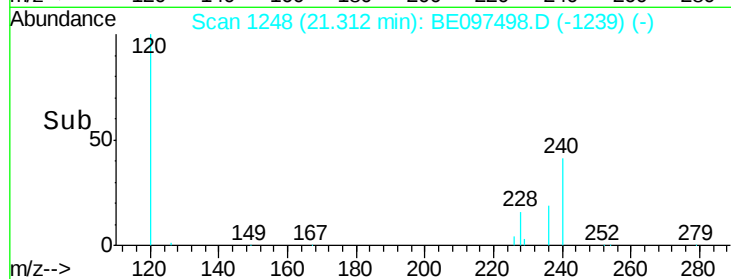
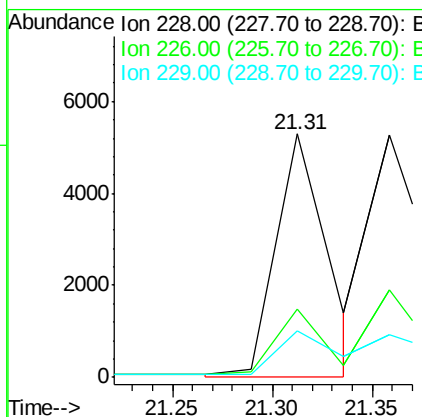
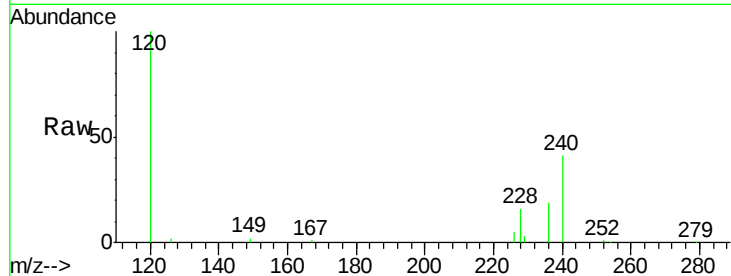
#25
Benzo(a)anthracene
Concen: 0.07 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	24.0	36.0
229	19.3	13.8	20.6

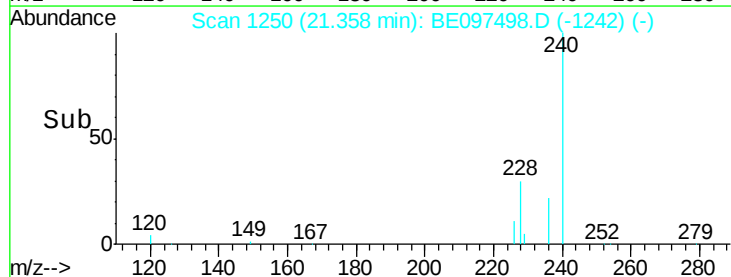
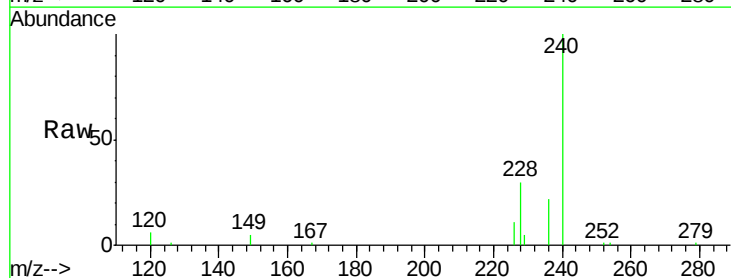
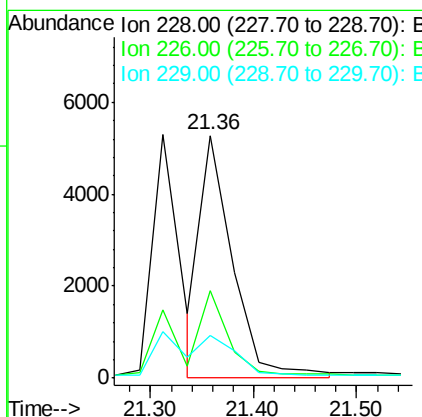
Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#26
Chrysene
Concen: 0.08 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

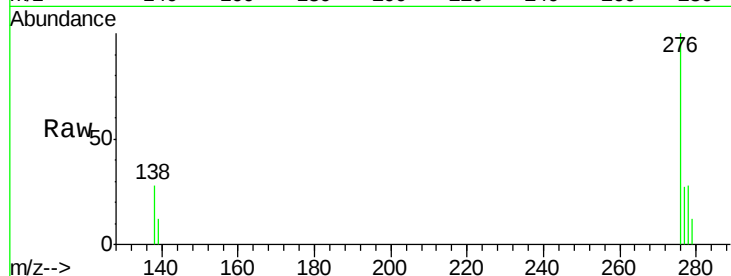
Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.9	18.9	28.3#
229	17.4	19.1	28.7#





#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: BE097498.D
Acq: 21 Mar 2016 14:26

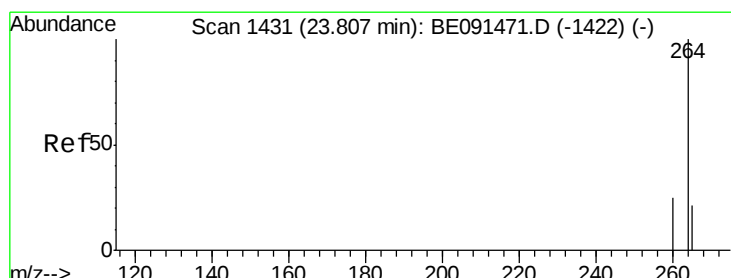
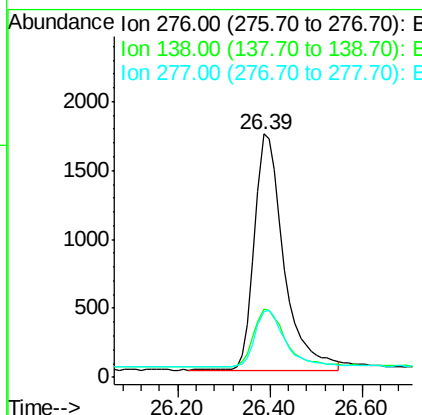
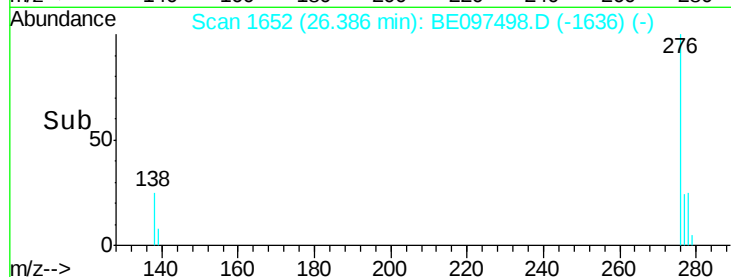
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.2	20.2	30.4
277	24.8	19.8	29.8

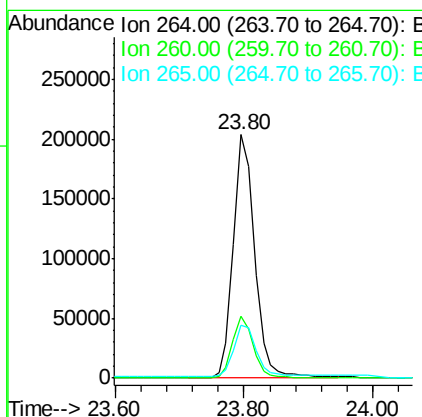
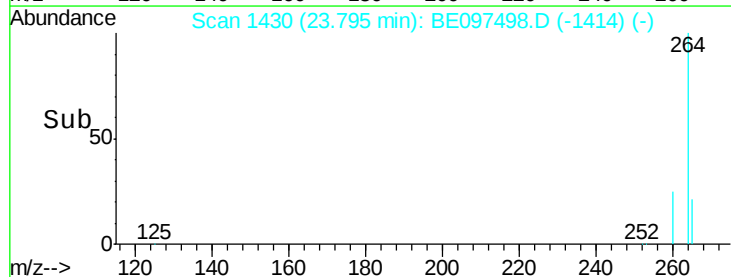
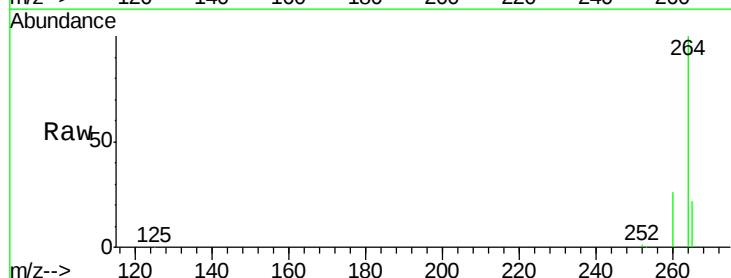
Manual Integrations
APPROVED

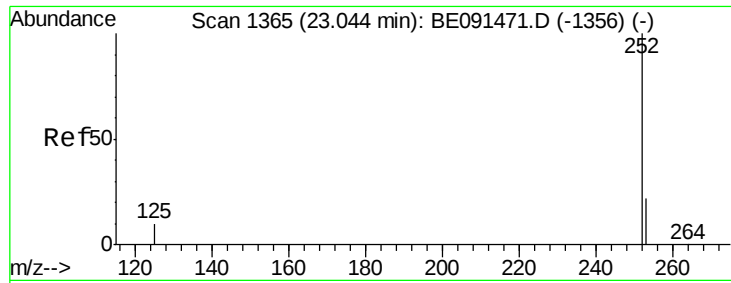
mohammad
3/21/2016 6:40:10 PM



#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.1	30.1
265	21.7	18.3	27.5





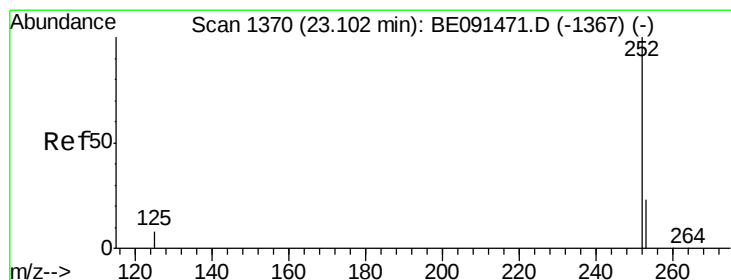
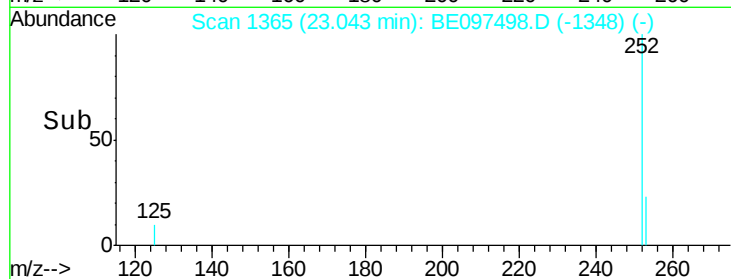
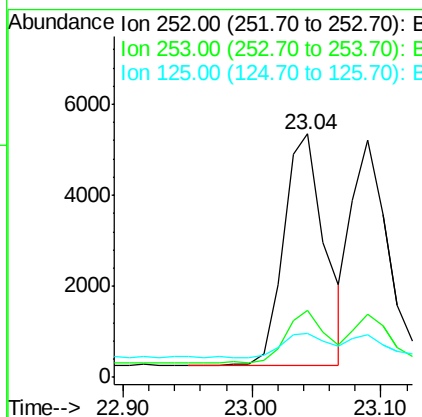
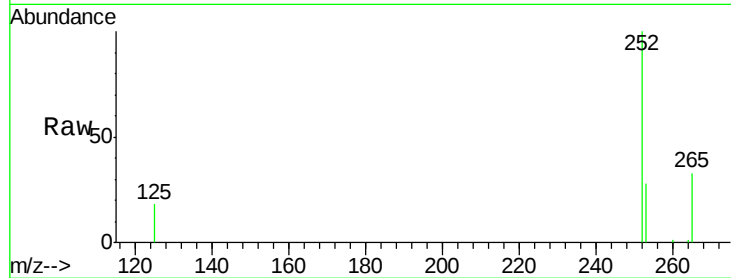
#29
Benzo(b)fluoranthene
Concen: 0.08 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.00 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	18.7	28.1
125	18.1	9.8	14.6

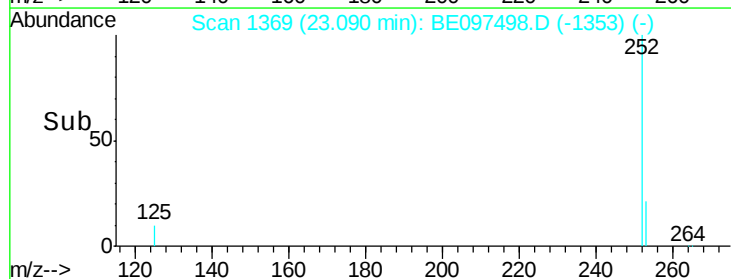
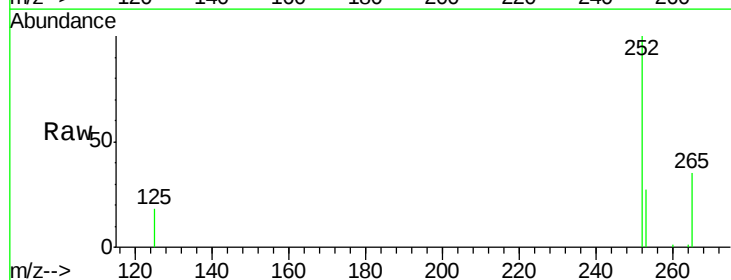
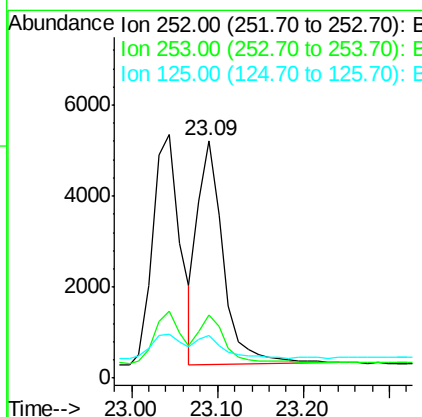
Manual Integrations
APPROVED

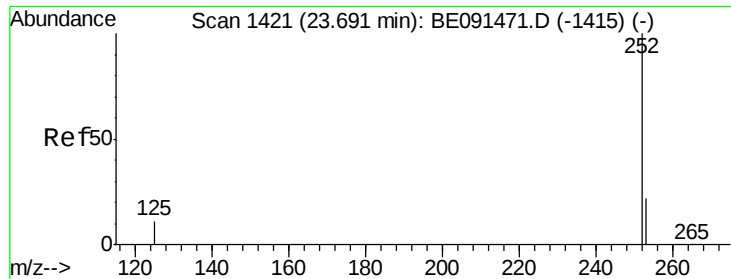
mohammad
3/21/2016 6:40:10 PM



#30
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE097498.D
Acq: 21 Mar 2016 14:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.6	20.2	30.4
125	17.8	9.4	14.2





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.69 min Scan# 1421

Delta R.T. -0.00 min

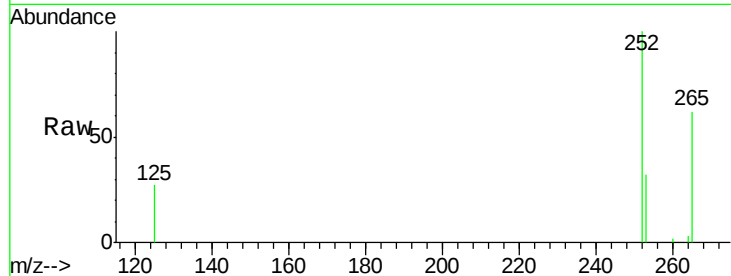
Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

Instrument :

BNA_E

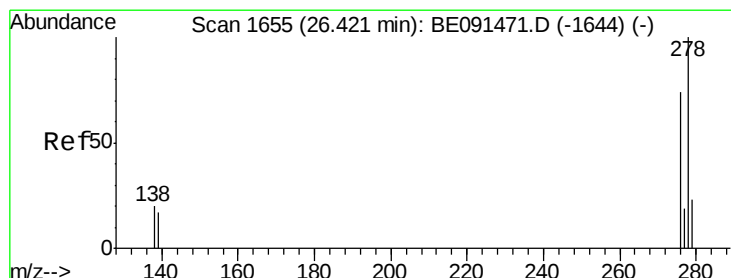
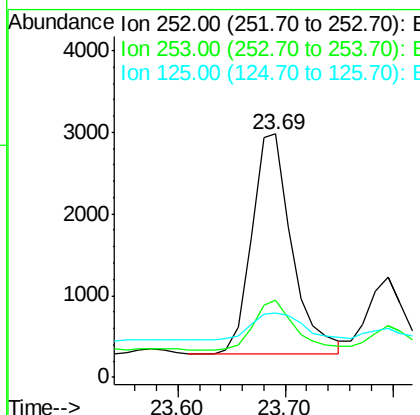
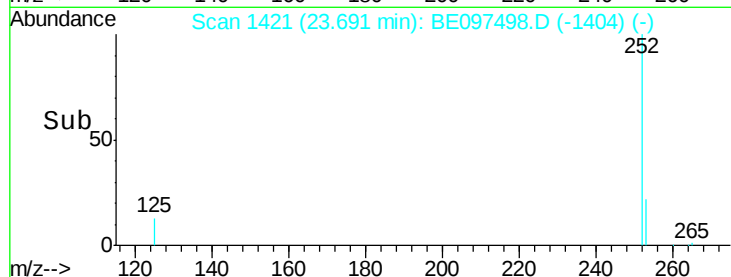
ClientSampleId :



Tgt Ion:	252	Resp:	6989
Ion Ratio	Lower	Upper	
252	100		
253	31.5	19.4	29.0#
125	26.6	11.4	17.2#

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:10 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.05 ng

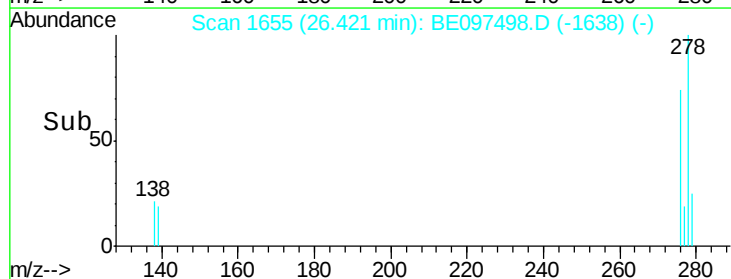
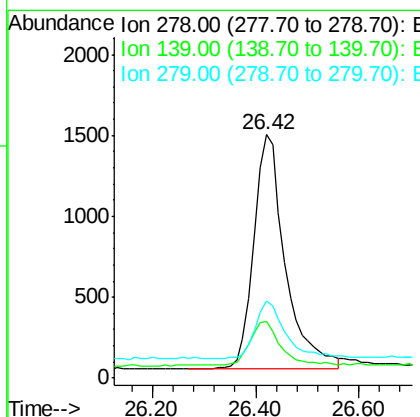
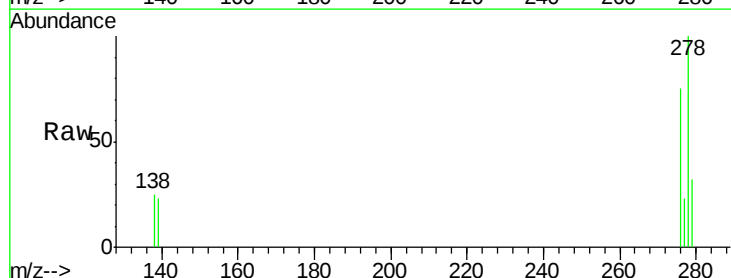
RT: 26.42 min Scan# 1655

Delta R.T. -0.00 min

Lab File: BE097498.D

Acq: 21 Mar 2016 14:26

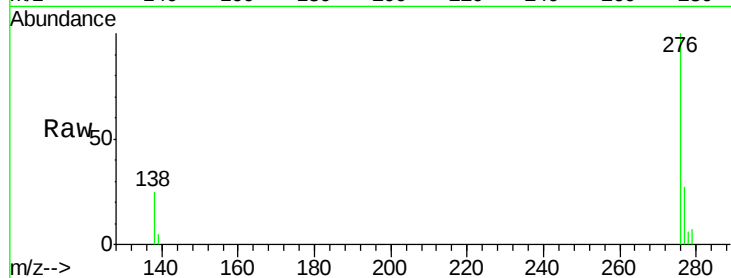
Tgt Ion:	278	Resp:	6127
Ion Ratio	Lower	Upper	
278	100		
139	23.1	14.2	21.4#
279	31.8	19.6	29.4#





#33
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.18 min Scan# 1721
 Delta R.T. -0.00 min
 Lab File: BE097498.D
 Acq: 21 Mar 2016 14:26

Instrument :
 BNA_E
 ClientSampleId :



Tgt	Ion	276	Resp:	6779
	Ratio		Lower	Upper
276	100			
277	27.0	19.4	29.2	
138	25.1	18.2	27.4	

Manual Integrations
 APPROVED

mohammad
 3/21/2016 6:40:10 PM

