

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE097501.D
 Acq On : 21 Mar 2016 16:19
 Operator : UM/SJ
 Sample : MDL-06-W
 Misc : 0.08PPM
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Manual Integrations
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Quant Time: Mar 21 16:58:08 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	54336	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	237498	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	132272	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	341918	5.00	ng	-0.01
22) Chrysene-d12	21.33	240	441497	5.00	ng	0.00
28) Perylene-d12	23.80	264	392892	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	89851	7.20	ng	0.00
5) Phenol-d6	6.99	99	119504	7.33	ng	0.00
7) Nitrobenzene-d5	8.98	82	42276	3.33	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	29074	6.02	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	146369	4.40	ng	0.00
24) Terphenyl-d14	19.78	244	239037	4.50	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	712	0.10	ng	# 67
3) n-Nitrosodimethylamine	3.71	42	253	0.03	ng	# 81
8) Naphthalene	10.65	128	3057	0.05	ng	# 94
9) 2-Methylnaphthalene	12.27	142	1791	0.05	ng	97
13) Acenaphthylene	14.15	152	2083m	0.17	ng	
14) Acenaphthene	14.50	154	1976	0.05	ng	93
15) Fluorene	15.48	166	2392	0.05	ng	97
17) Hexachlorobenzene	16.48	284	790	0.05	ng	96
18) Pentachlorophenol	16.83	266	413	0.25	ng	94
19) Phenanthrene	17.22	178	5531m	0.06	ng	
20) Anthracene	17.31	178	3818	0.04	ng	99
21) Fluoranthene	19.22	202	5129	0.05	ng	98
23) Pyrene	19.59	202	6047	0.06	ng	97
25) Benzo(a)anthracene	21.31	228	8027m	0.07	ng	
26) Chrysene	21.36	228	8410m	0.07	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	5870	0.05	ng	99
29) Benzo(b)fluoranthene	23.03	252	8141	0.07	ng	# 87
30) Benzo(k)fluoranthene	23.09	252	6734	0.05	ng	# 88
31) Benzo(a)pyrene	23.68	252	5219	0.05	ng	# 76
32) Dibenzo(a,h)anthracene	26.41	278	4778	0.04	ng	# 87
33) Benzo(g,h,i)perylene	27.17	276	5278	0.05	ng	# 90

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

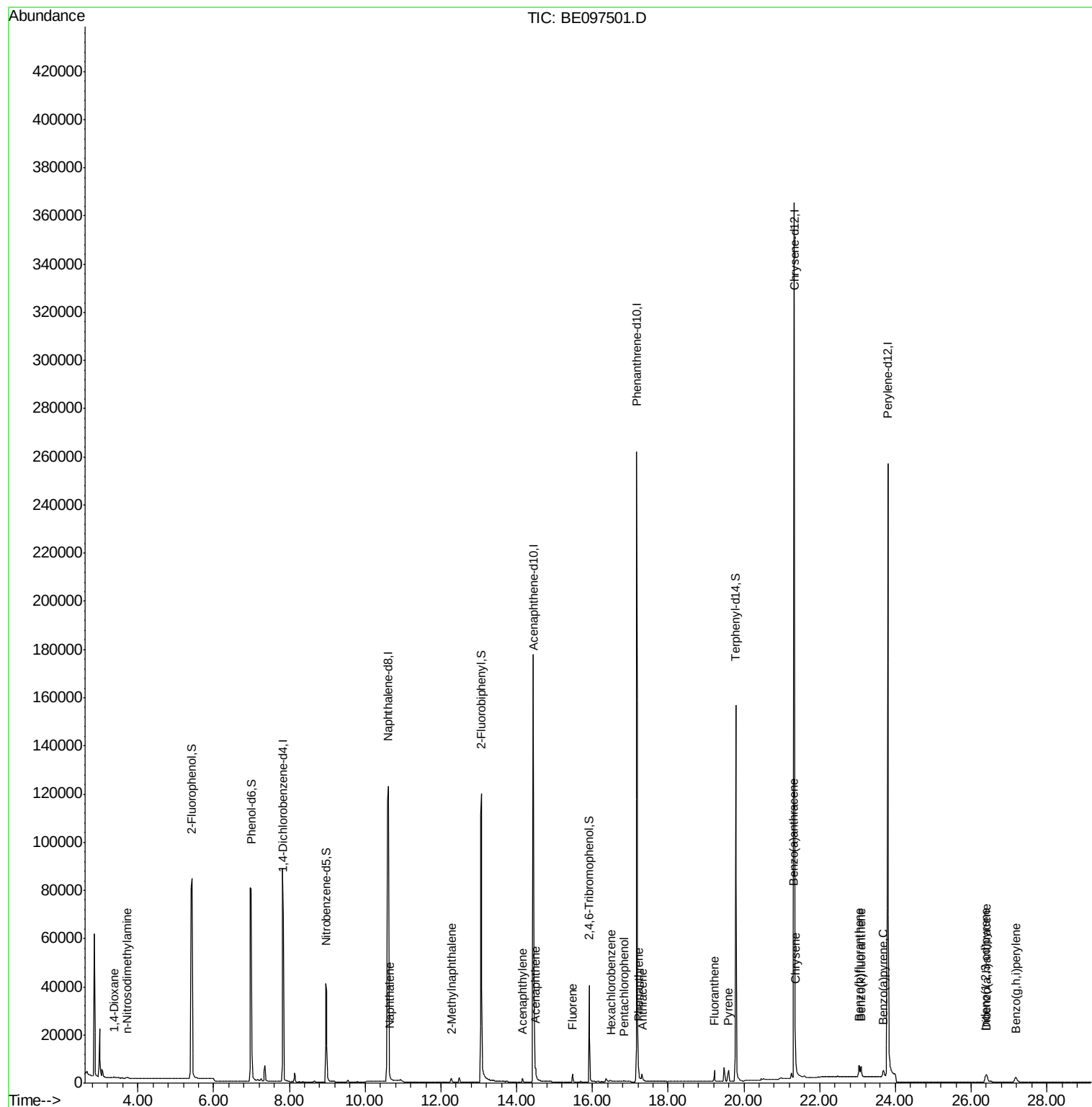
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
Data File : BE097501.D
Acq On : 21 Mar 2016 16:19
Operator : UM/SJ
Sample : MDL-06-W
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ALS Vial : 16 Sample Multiplier: 1

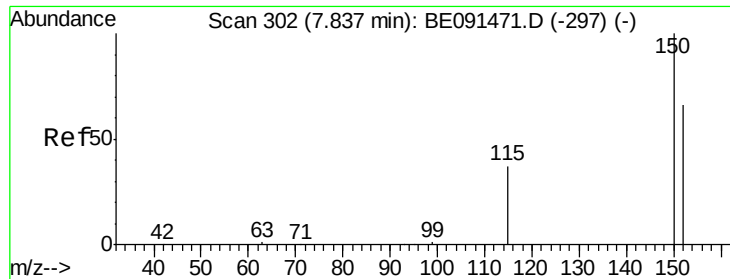
Instrument :
BNA_E
ClientSampleId :

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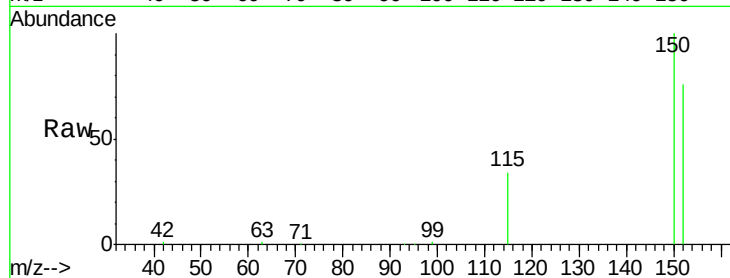
Quant Time: Mar 21 16:58:08 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 14:14:30 2016
Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.84 min Scan# 302
 Delta R.T. 0.00 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

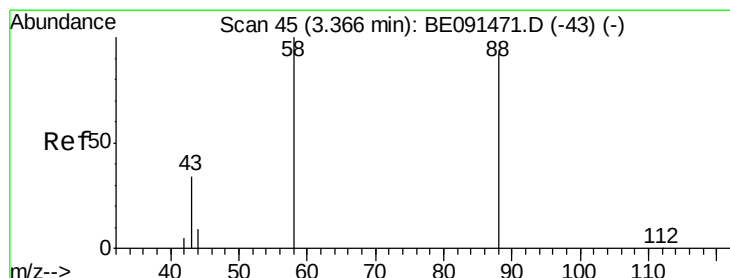
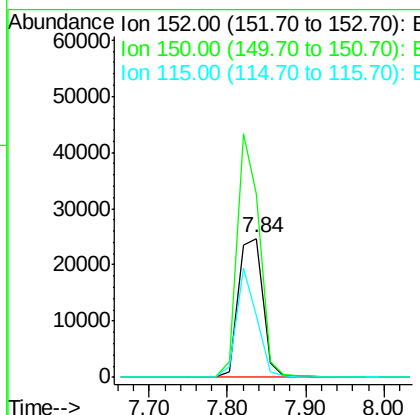
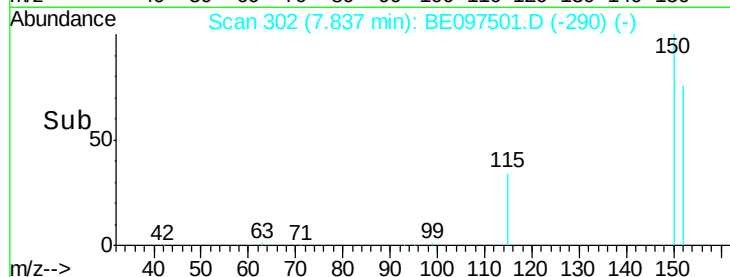
Instrument :
 BNA_E
 ClientSampled :



Tgt Ion: 152 Resp: 54336
 Ion Ratio Lower Upper
 152 100
 150 132.1 122.2 183.2
 115 44.5 45.9 68.9#

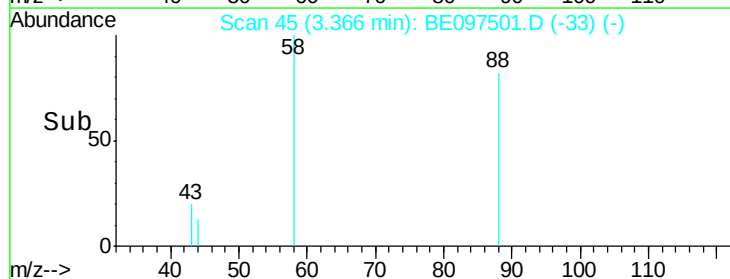
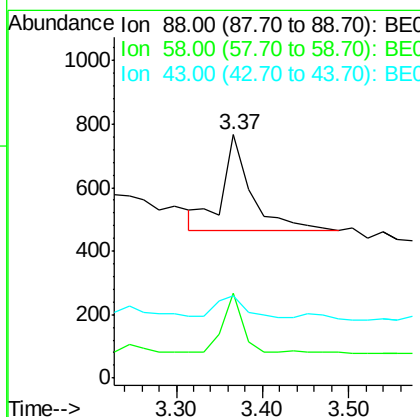
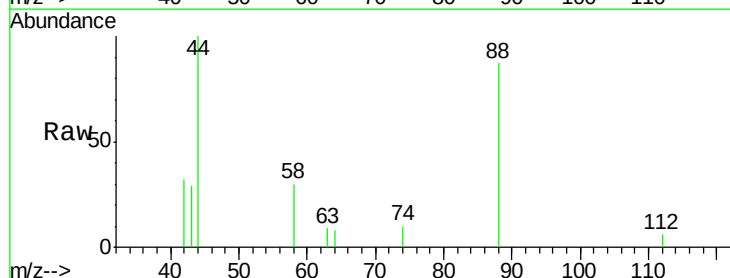
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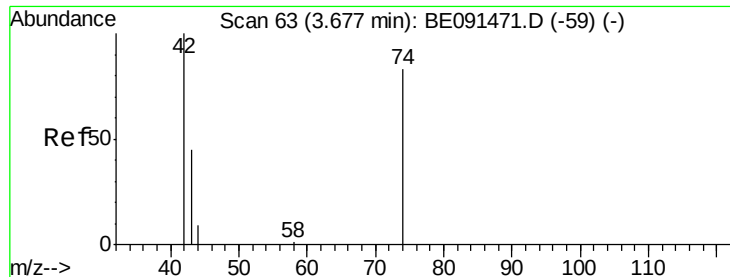
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#2
 1,4-Dioxane
 Concen: 0.10 ng
 RT: 3.37 min Scan# 45
 Delta R.T. 0.00 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

Tgt Ion: 88 Resp: 712
 Ion Ratio Lower Upper
 88 100
 58 41.7 61.0 91.6#
 43 23.3 25.4 38.2#

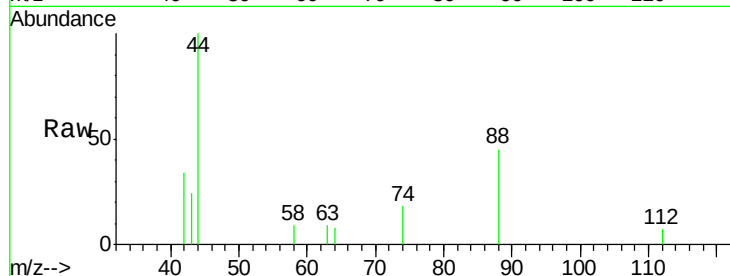




#3

n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.71 min Scan# 65
Delta R.T. 0.03 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

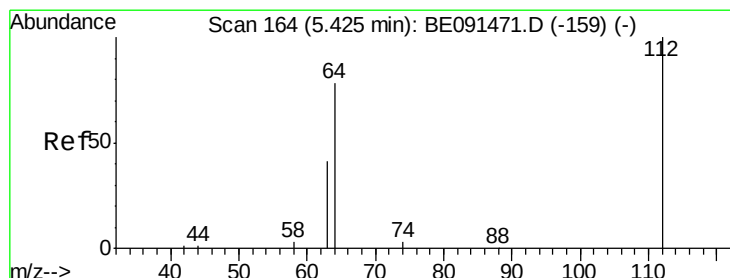
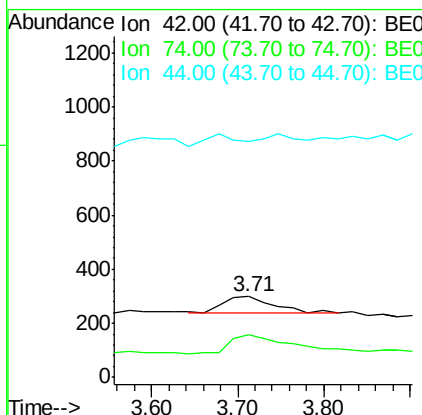
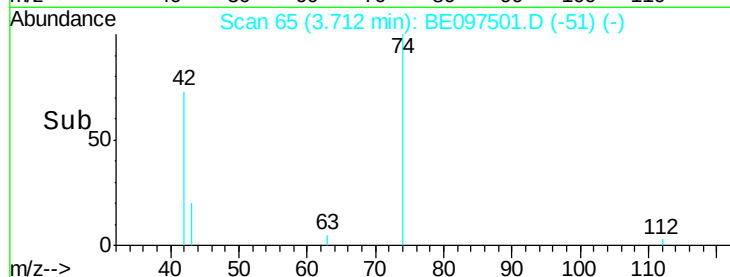
Instrument :
BNA_E
ClientSampleId :



Tgt Ion: 42 Resp: 253
Ion Ratio Lower Upper
42 100
74 124.9 84.3 126.5
44 0.0 6.7 10.1#

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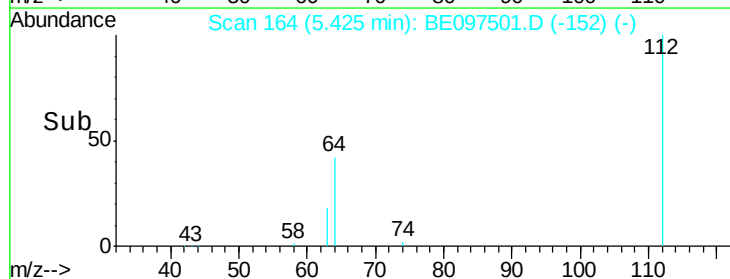
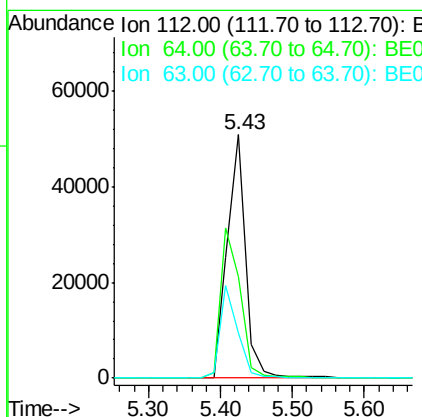
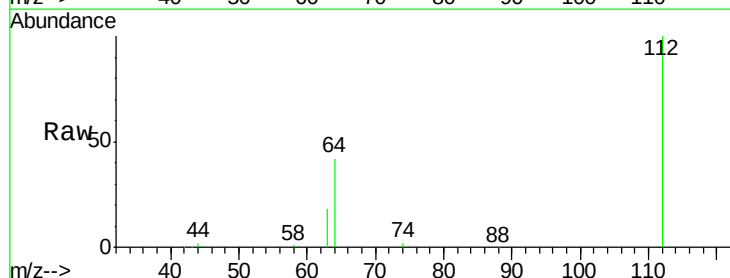
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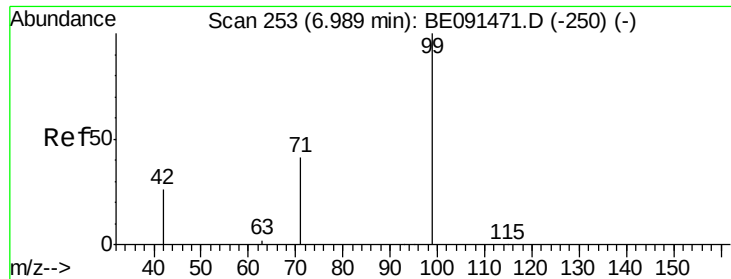


#4

2-Fluorophenol
Concen: 7.20 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Tgt Ion: 112 Resp: 89851
Ion Ratio Lower Upper
112 100
64 66.5 53.3 79.9
63 36.5 29.8 44.8





#5

Phenol-d6

Concen: 7.33 ng

RT: 6.99 min Scan# 253

Delta R.T. 0.00 min

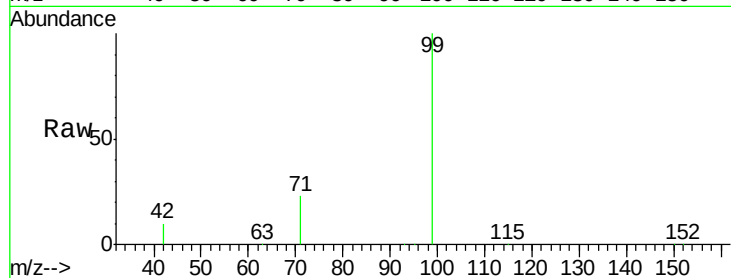
Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

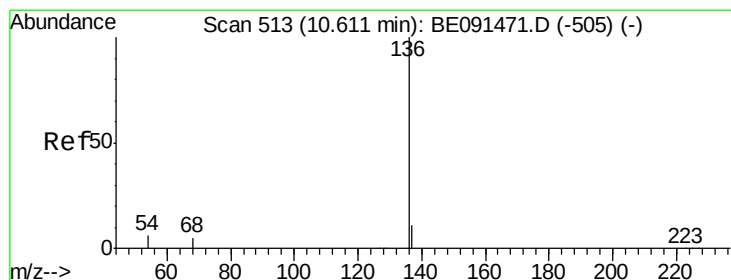
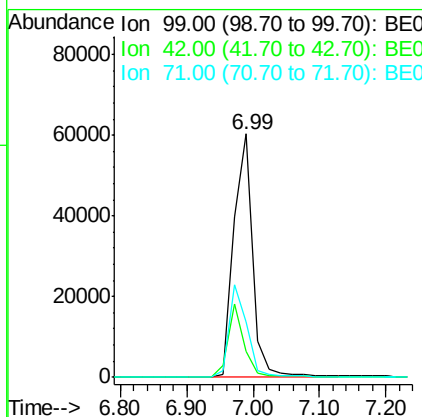
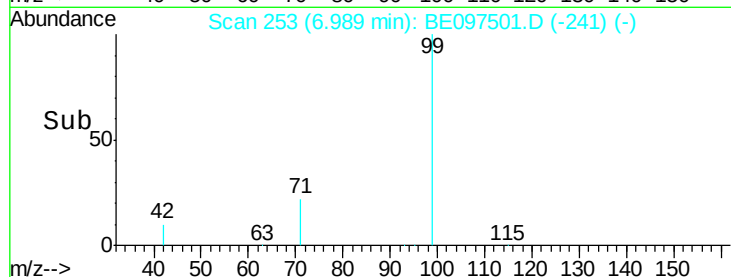
ClientSampleId :



Tgt Ion	Ratio	Resp	Lower	Upper
99	100	119504		
42	25.0		20.6	30.8
71	36.0		29.0	43.4

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#6

Naphthalene-d8

Concen: 5.00 ng

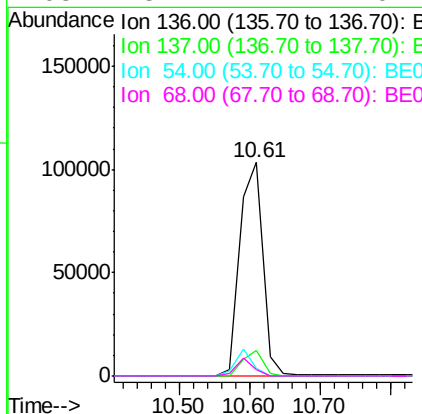
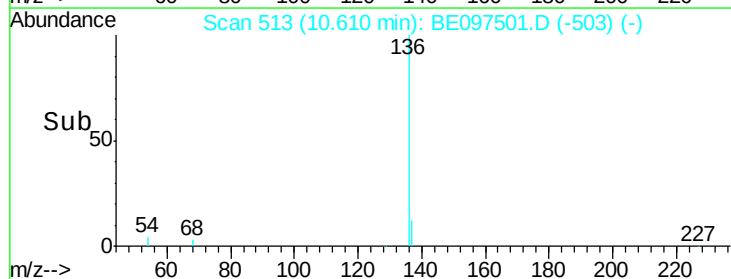
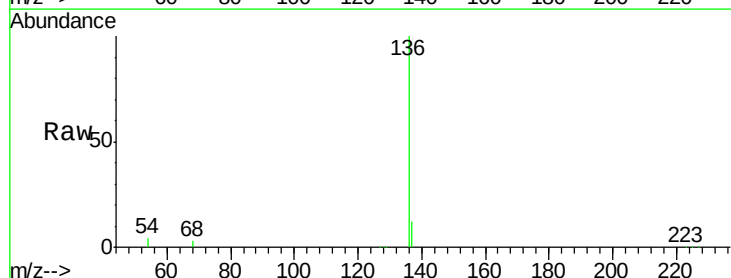
RT: 10.61 min Scan# 513

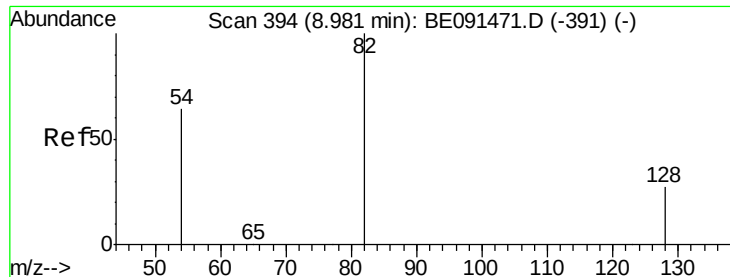
Delta R.T. -0.00 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	237498		
137	12.1		8.8	13.2
54	3.8		5.2	7.8#
68	3.1		4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.33 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

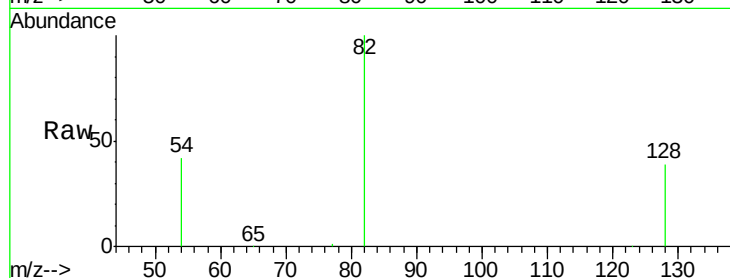
Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 82 Resp: 42276

Ion Ratio Lower Upper

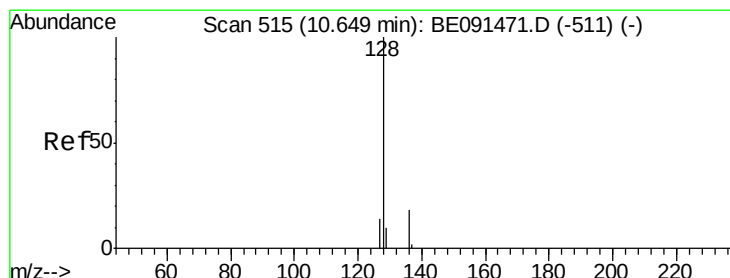
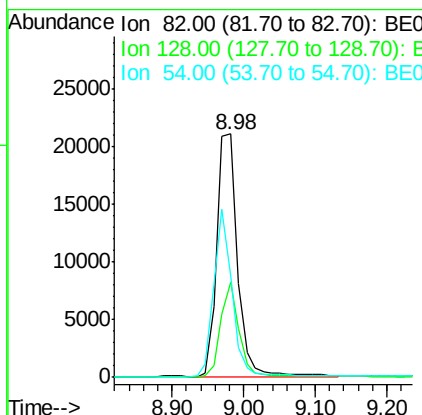
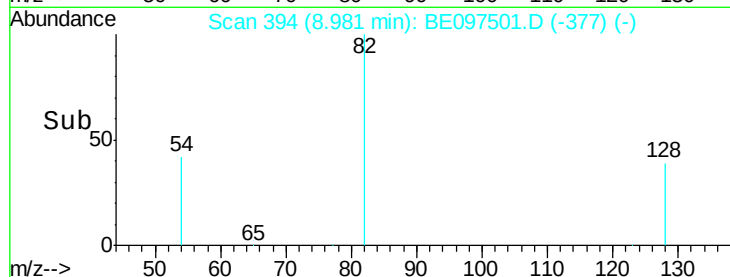
82 100

128 38.9 23.5 35.3#

54 41.8 52.4 78.6#

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#8

Naphthalene

Concen: 0.05 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

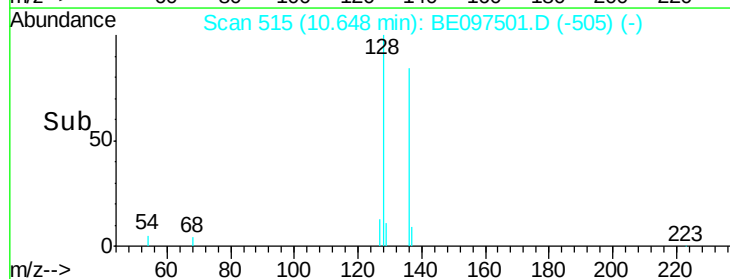
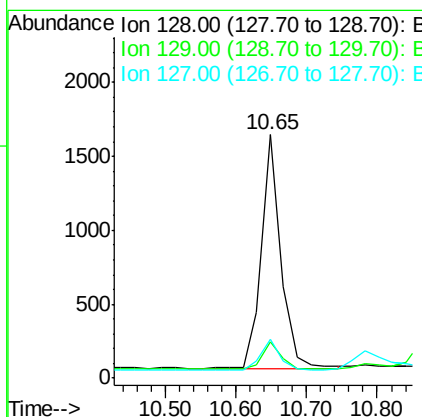
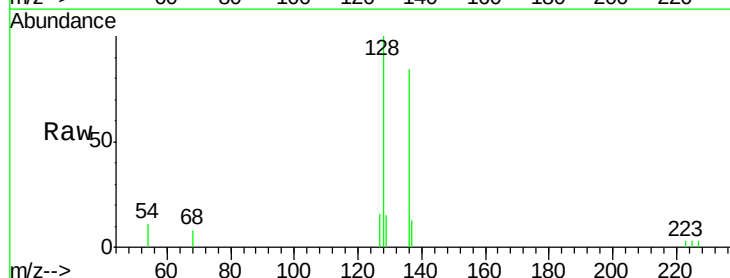
Tgt Ion: 128 Resp: 3057

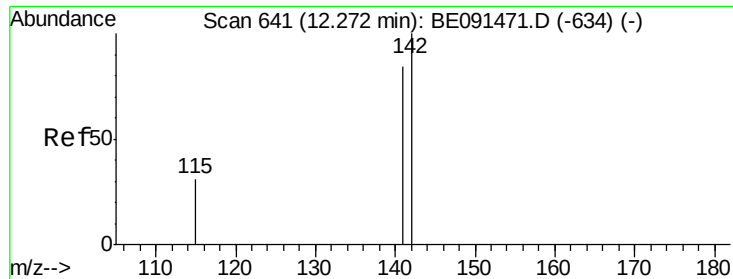
Ion Ratio Lower Upper

128 100

129 14.7 8.2 12.2#

127 15.8 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

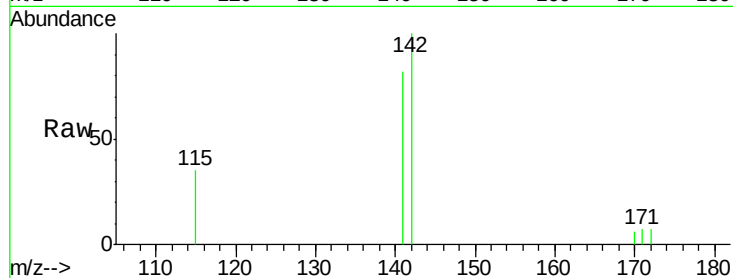
Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

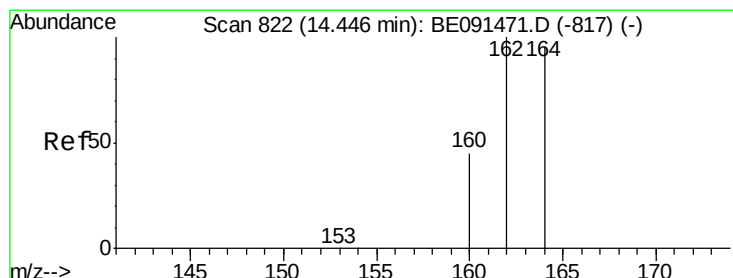
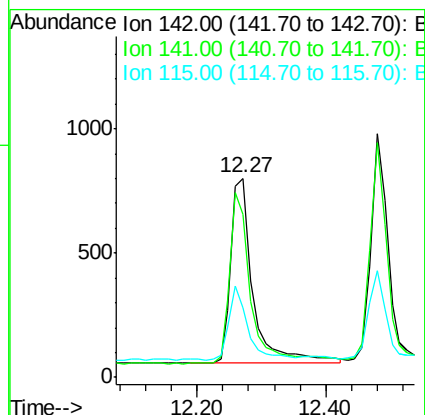
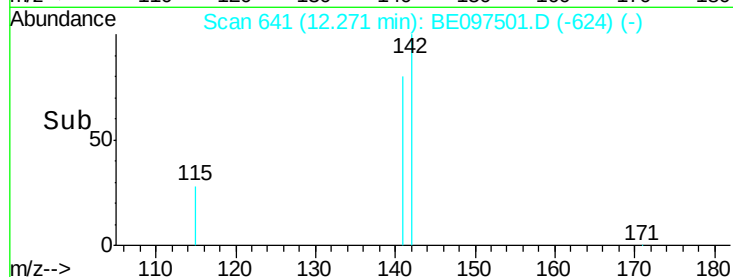
ClientSampled :



Tgt Ion:	142	Resp:	1791
Ion Ratio	Lower	Upper	
142	100		
141	81.8	66.9	100.3
115	34.7	25.1	37.7

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#10

Acenaphthene-d10

Concen: 5.00 ng

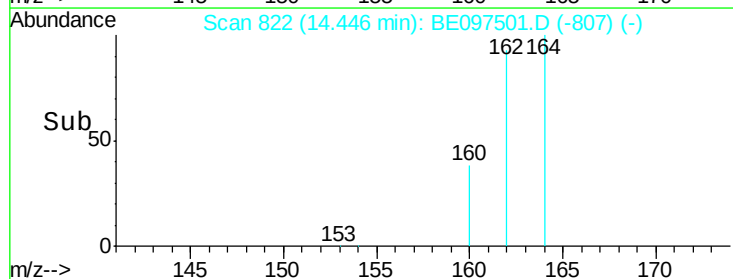
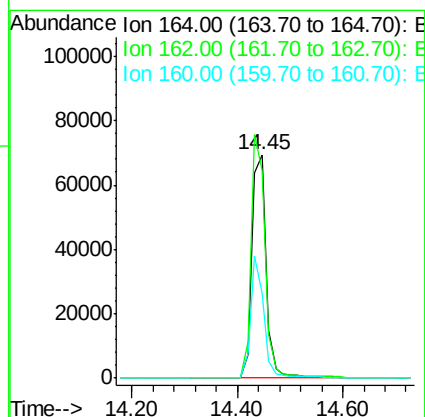
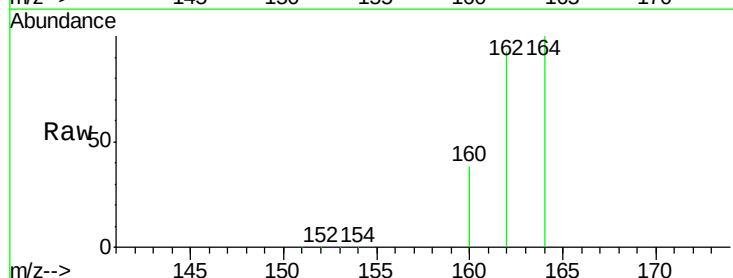
RT: 14.45 min Scan# 822

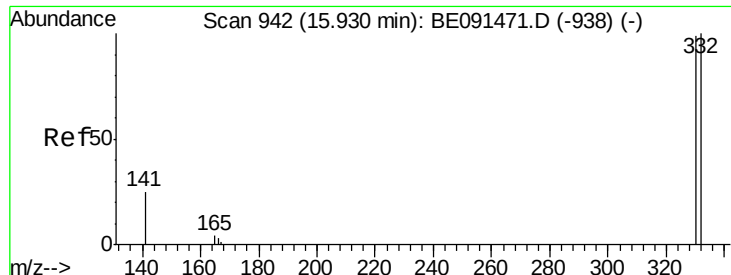
Delta R.T. 0.00 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

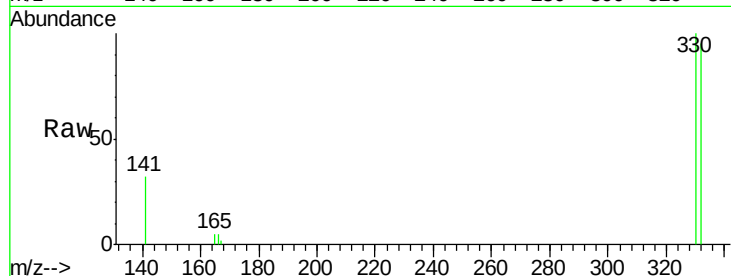
Tgt Ion:	164	Resp:	132272
Ion Ratio	Lower	Upper	
164	100		
162	93.0	84.4	126.6
160	38.1	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.02 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

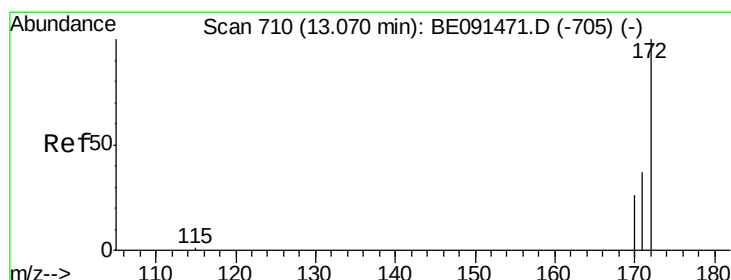
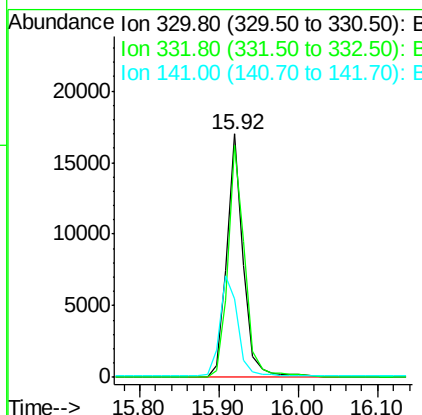
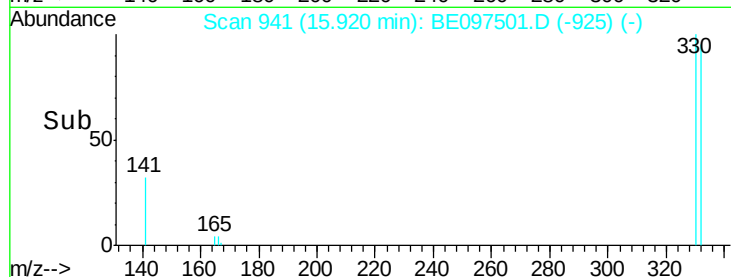
Instrument :
 BNA_E
 ClientSampleId :



Tgt Ion: 330 Resp: 29074
 Ion Ratio Lower Upper
 330 100
 332 98.3 79.2 118.8
 141 46.1 28.1 42.1#

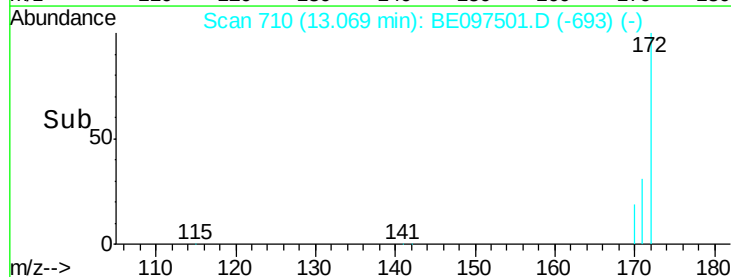
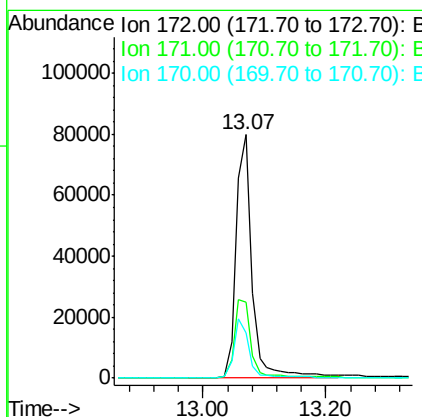
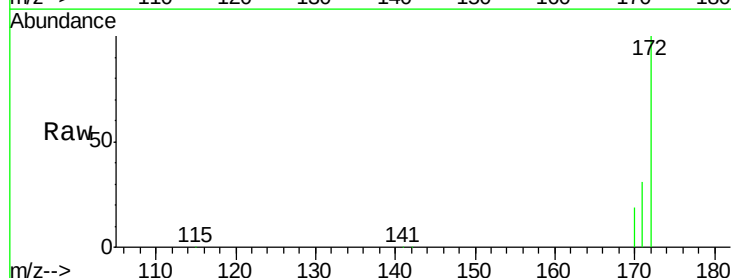
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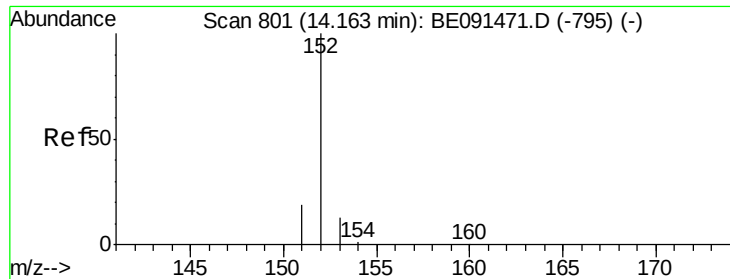
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#12
 2-Fluorobiphenyl
 Concen: 4.40 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

Tgt Ion: 172 Resp: 146369
 Ion Ratio Lower Upper
 172 100
 171 31.1 29.8 44.8
 170 18.6 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: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

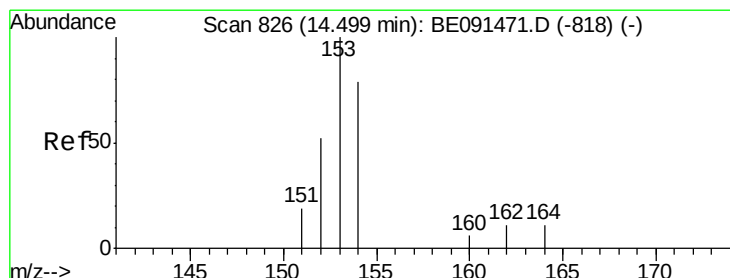
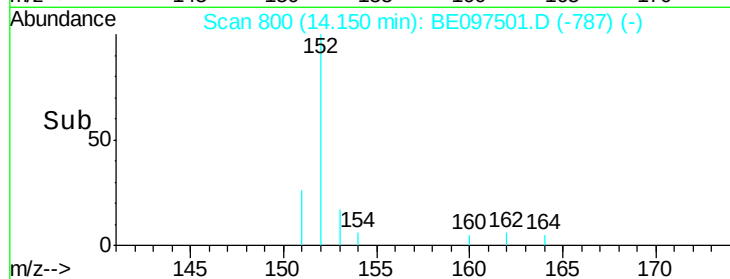
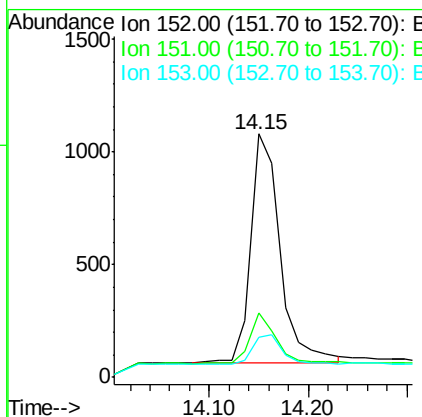
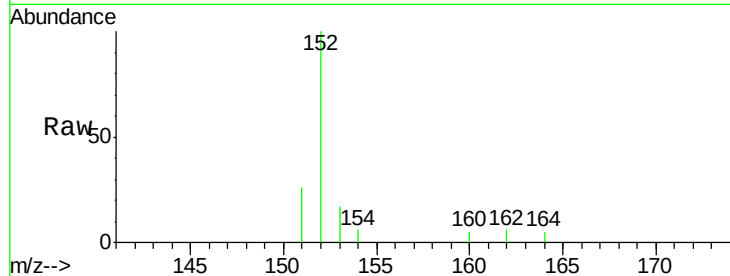
BNA_E

ClientSampleId :

Tgt Ion:	152	Resp:	2083
Ion Ratio	Lower	Upper	
152	100		
151	30.1	16.3	24.5#
153	16.8	11.1	16.7#

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#14

Acenaphthene

Concen: 0.05 ng

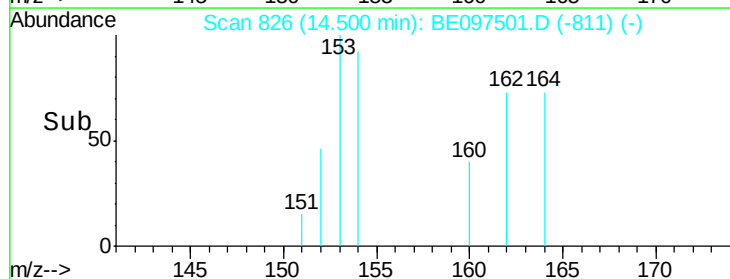
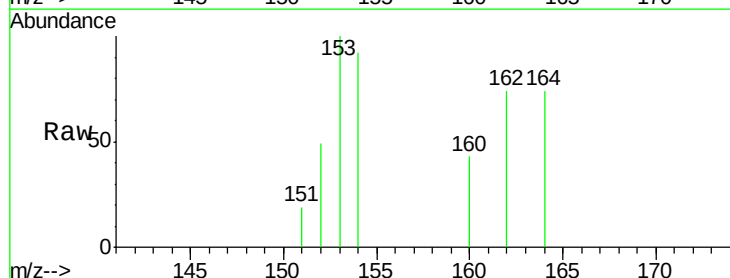
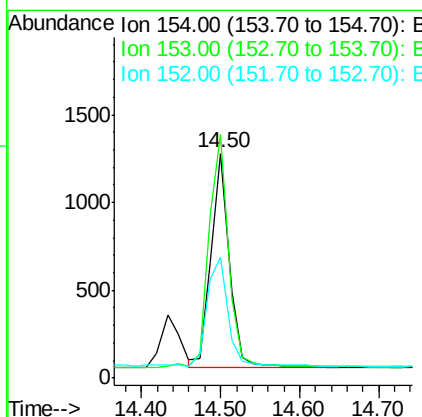
RT: 14.50 min Scan# 826

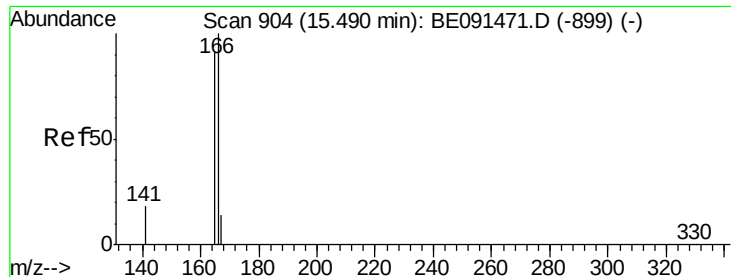
Delta R.T. 0.00 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Tgt Ion:	154	Resp:	1976
Ion Ratio	Lower	Upper	
154	100		
153	117.5	87.3	130.9
152	57.7	42.9	64.3





#15

Fluorene

Concen: 0.05 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

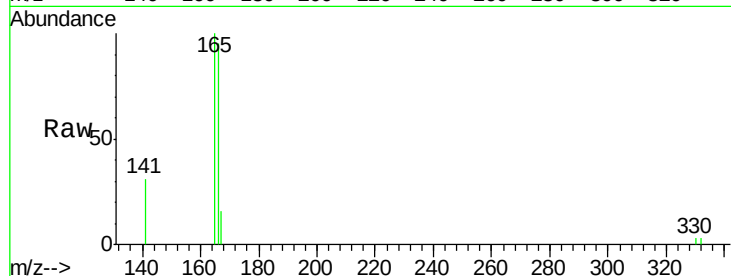
Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

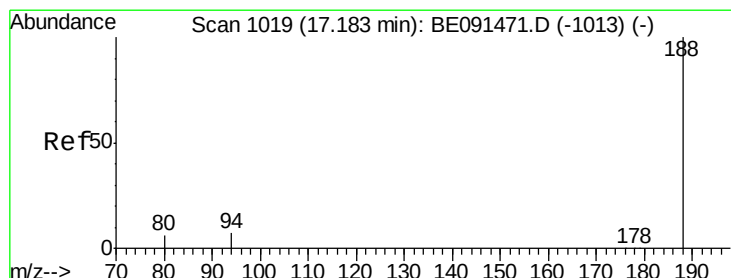
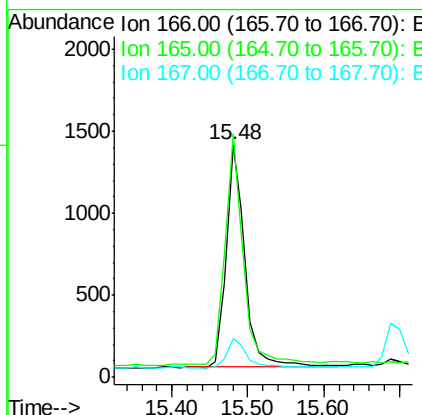
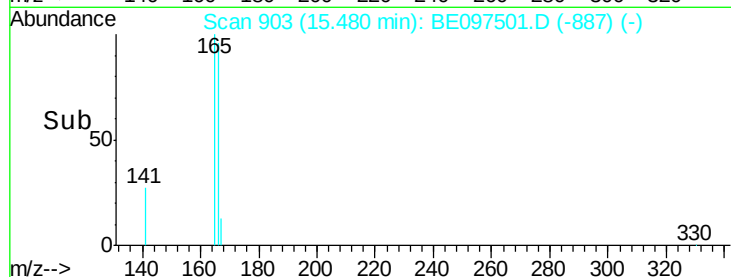
ClientSampleId :



Tgt Ion:	166	Resp:	2392
Ion Ratio	Lower	Upper	
166	100		
165	102.6	79.2	118.8
167	14.5	10.8	16.2

Manual Integrations
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#16

Phenanthrene-d10

Concen: 5.00 ng

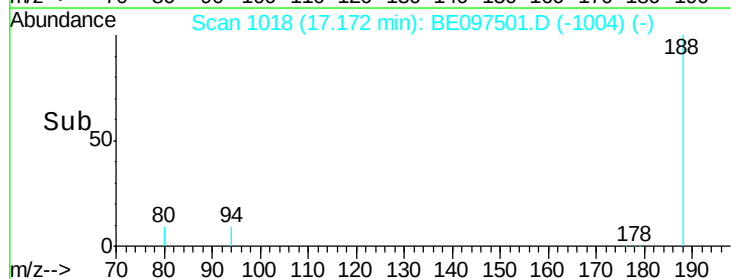
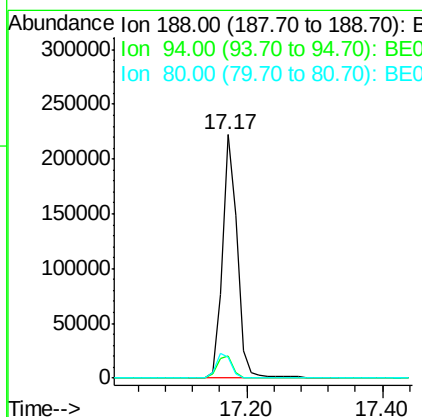
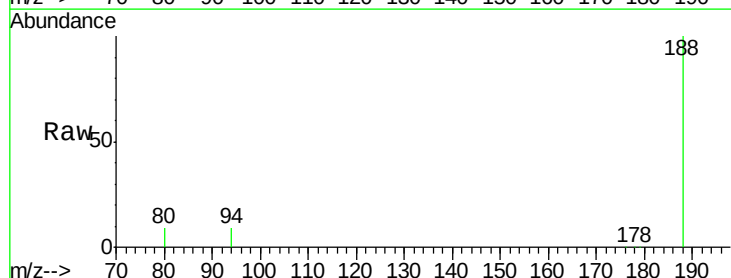
RT: 17.17 min Scan# 1018

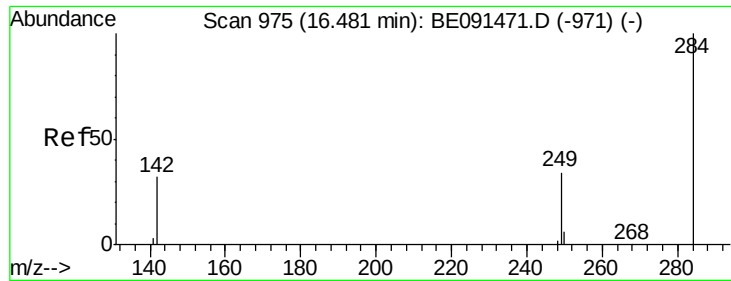
Delta R.T. -0.01 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

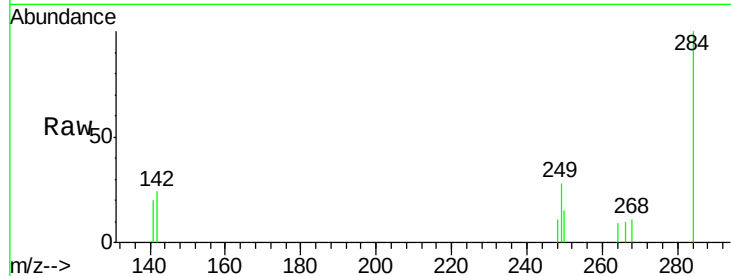
Tgt Ion:	188	Resp:	341918
Ion Ratio	Lower	Upper	
188	100		
94	9.0	5.4	8.2#
80	8.8	5.0	7.4#





#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

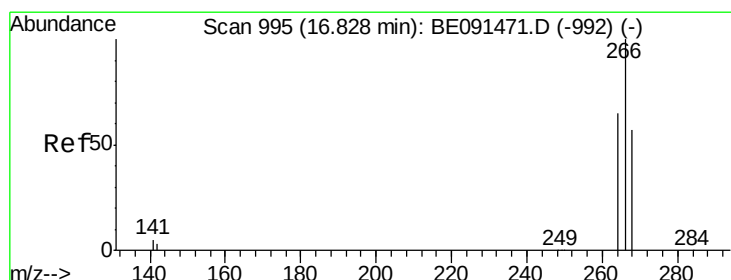
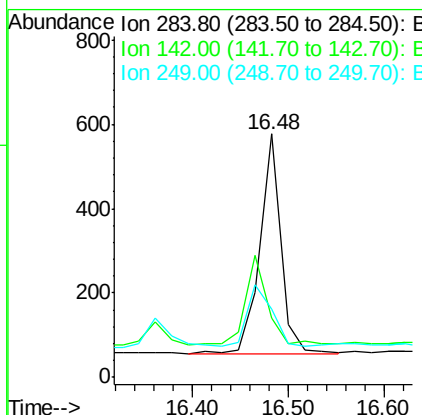
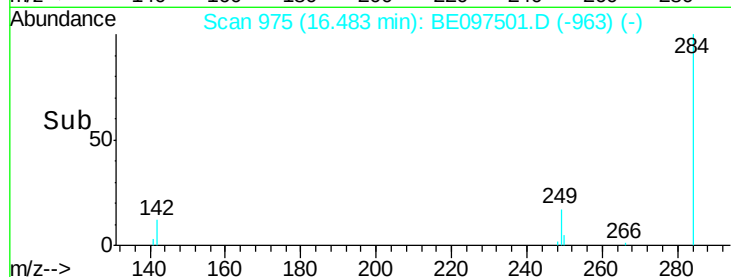
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Resp	Lower	Upper
284	100	790		
142	42.7		31.0	46.4
249	33.3		25.8	38.8

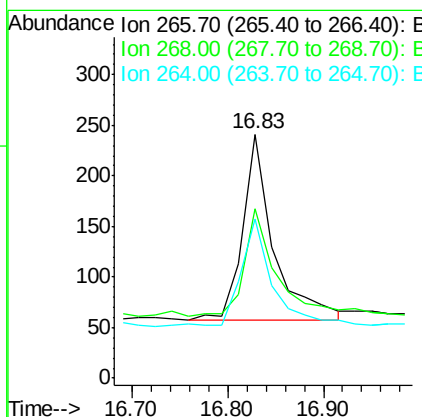
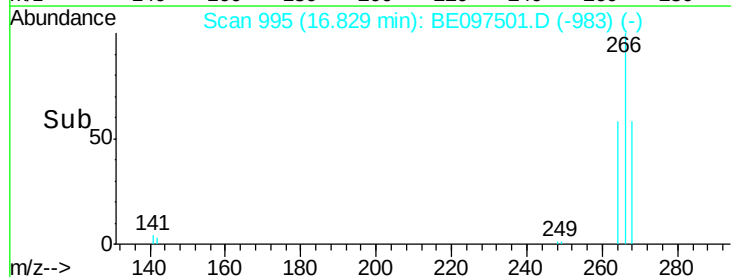
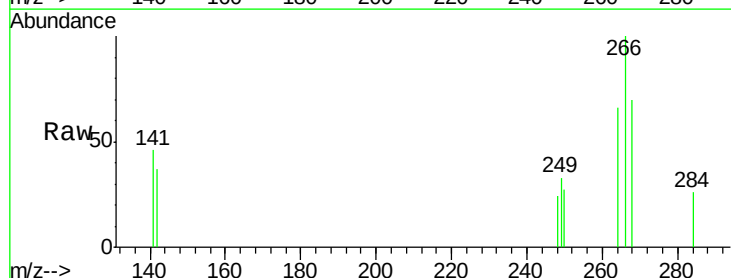
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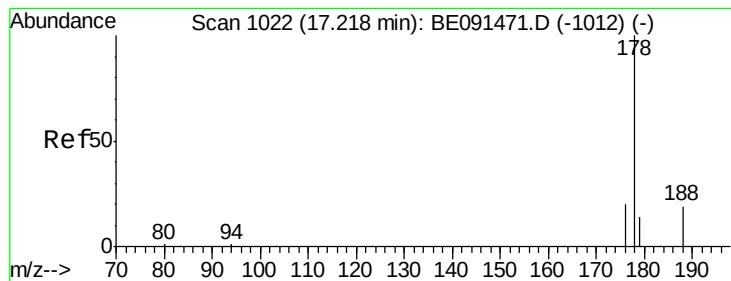
mohammad
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#18
Pentachlorophenol
Concen: 0.25 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	413		
268	69.7		48.2	72.2
264	65.6		52.1	78.1





#19

Phenanthrene

Concen: 0.06 ng m

RT: 17.22 min Scan# 1022

Delta R.T. 0.00 min

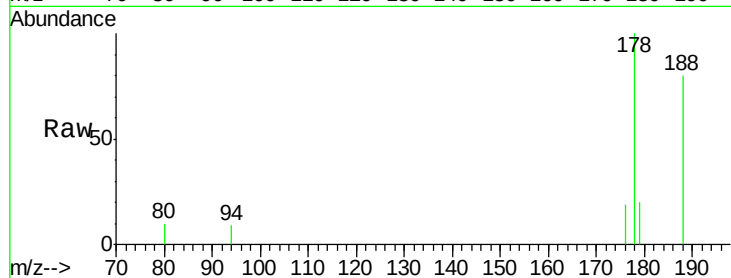
Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

ClientSampleId :



Tgt Ion:178 Resp: 5531

Ion Ratio Lower Upper

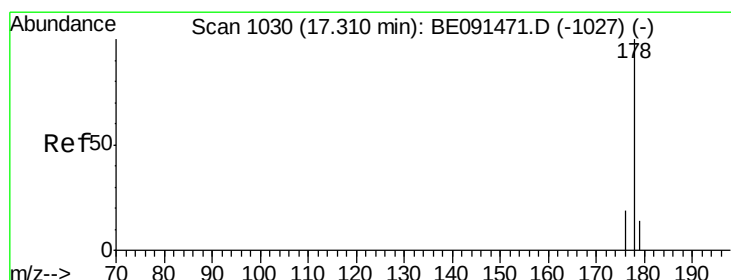
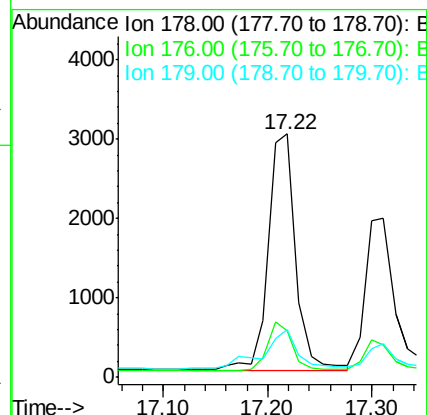
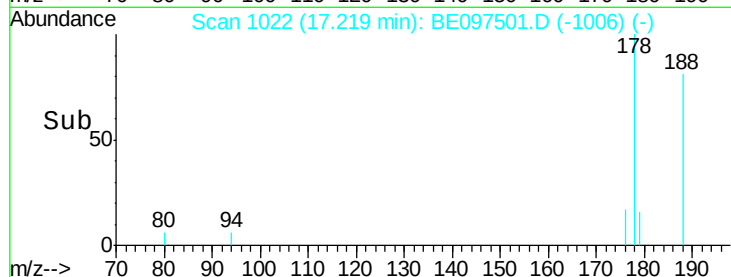
178 100

176 11.9 15.5 23.3#

179 9.0 13.1 19.7#

Manual Integrations
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#20

Anthracene

Concen: 0.04 ng

RT: 17.31 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

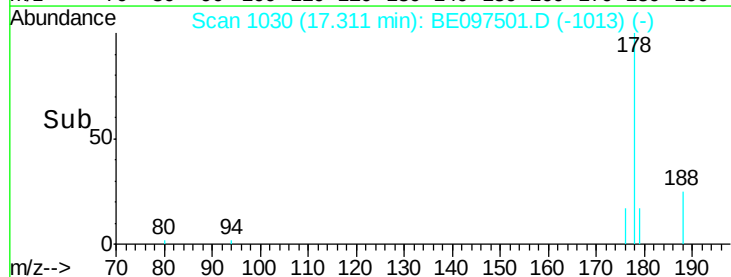
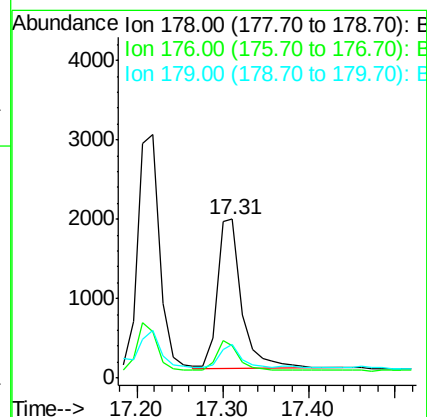
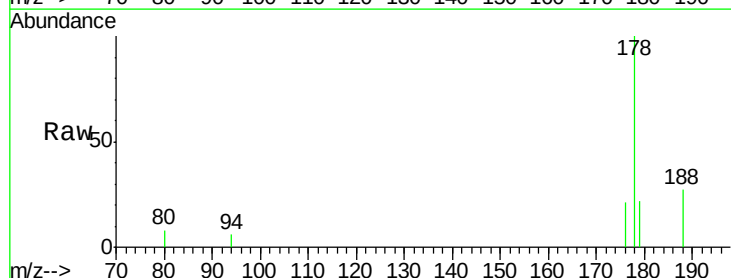
Tgt Ion:178 Resp: 3818

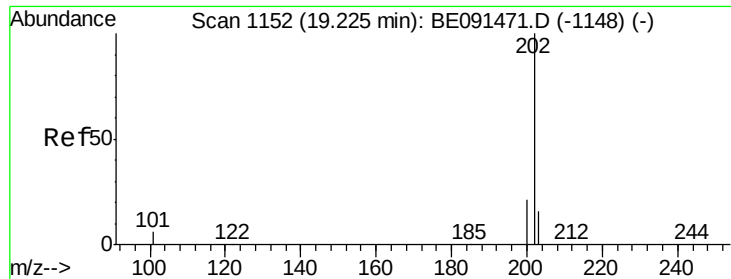
Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 14.5 12.2 18.4





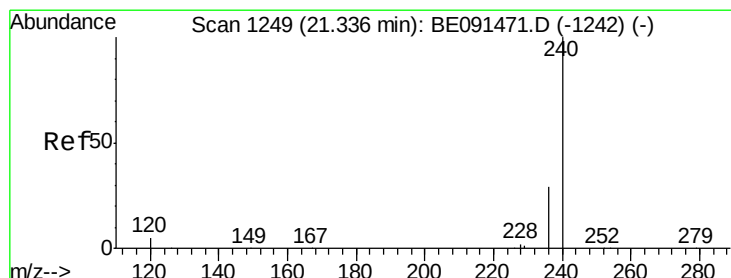
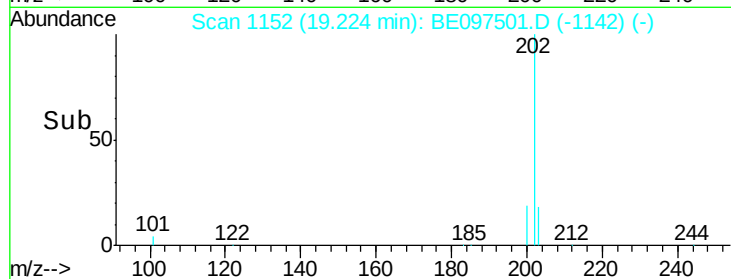
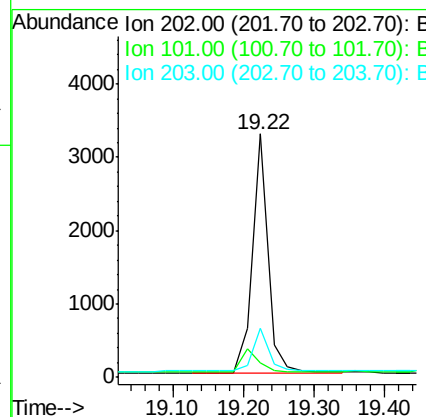
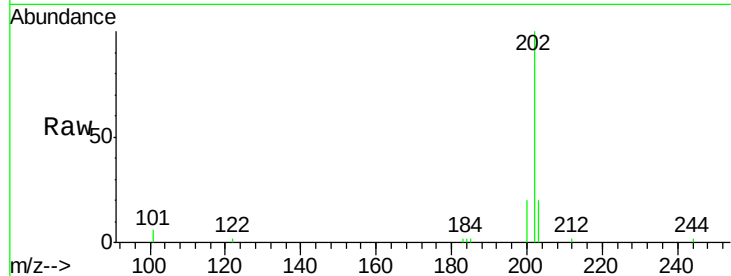
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.22 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	11.3	8.3	12.5
203	18.0	13.9	20.9

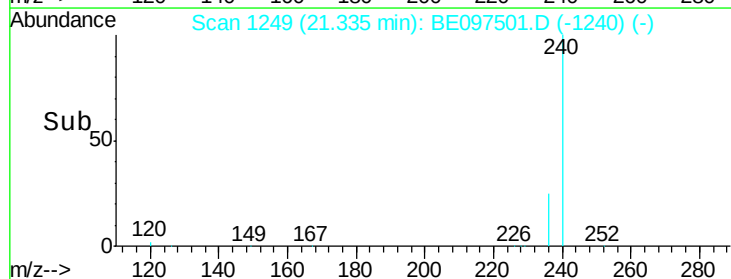
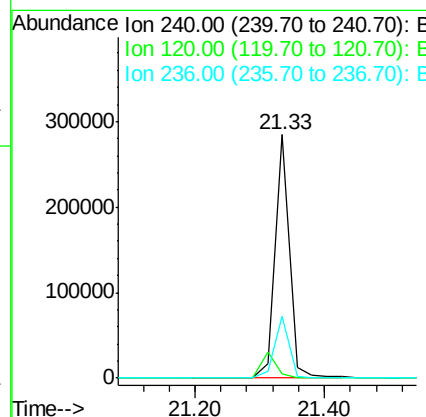
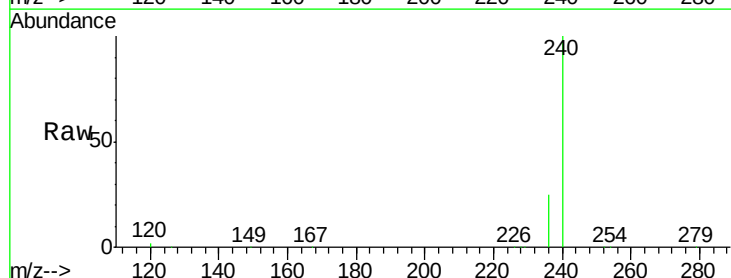
Manual Integrations
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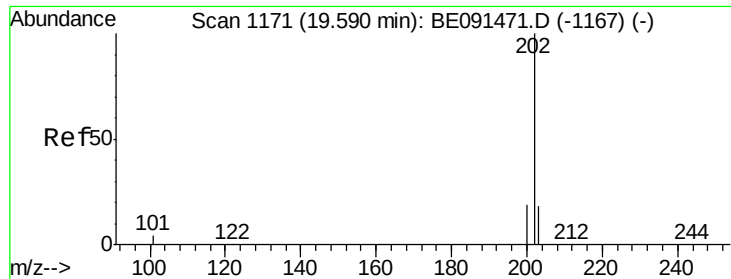
mohammad
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#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.33 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	1.9	4.0	6.0#
236	25.4	23.0	34.4





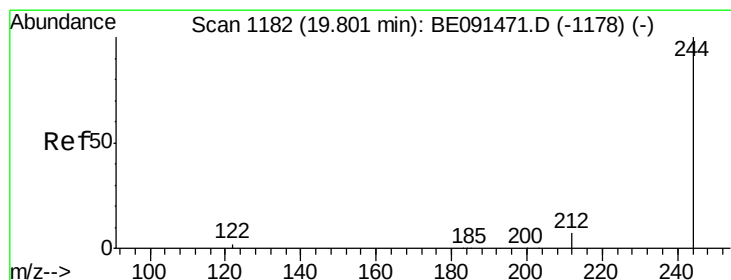
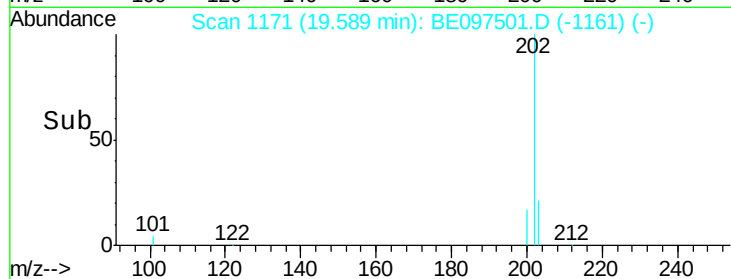
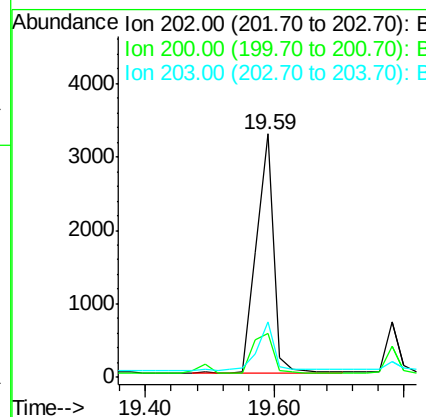
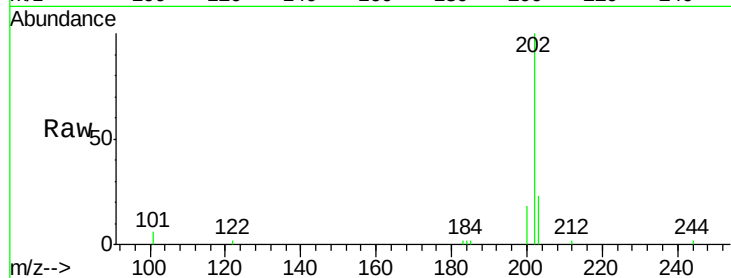
#23
Pyrene
Concen: 0.06 ng
RT: 19.59 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	6047		
200	20.7		16.4	24.6
203	20.5		14.6	21.8

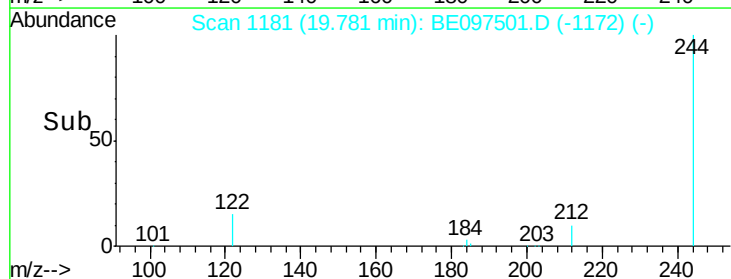
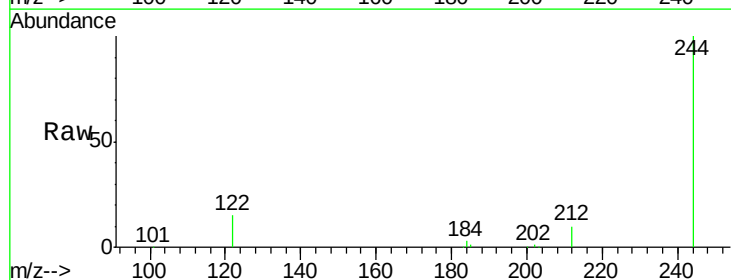
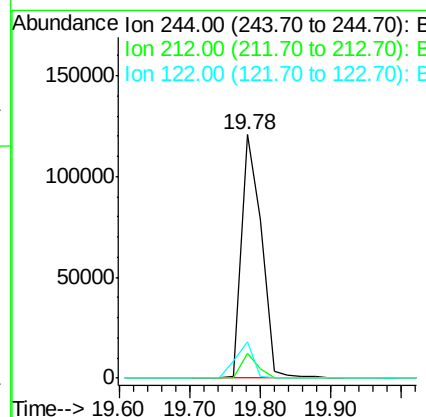
Manual Integrations
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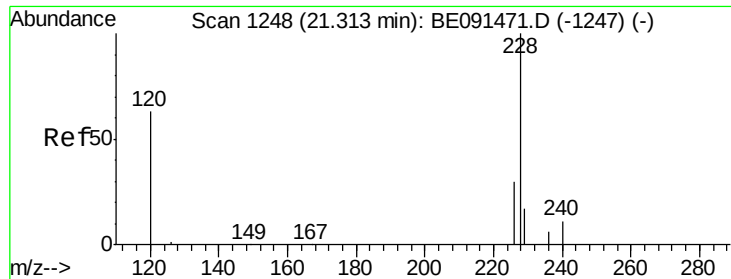
mohammad
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#24
Terphenyl-d14
Concen: 4.50 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	239037		
212	10.1		5.8	8.8#
122	14.7		1.8	2.8#





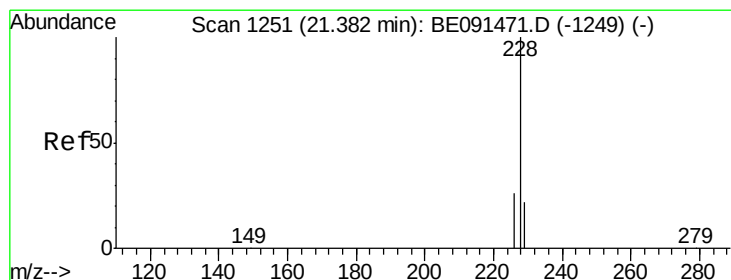
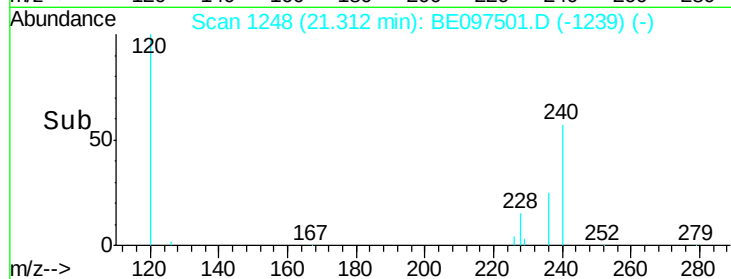
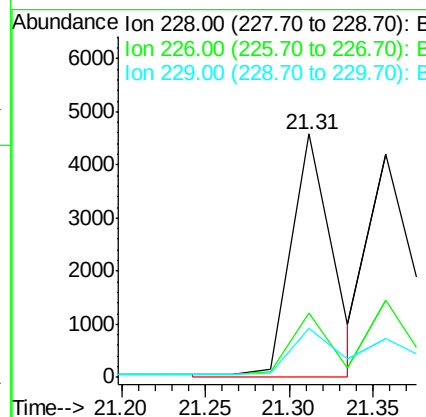
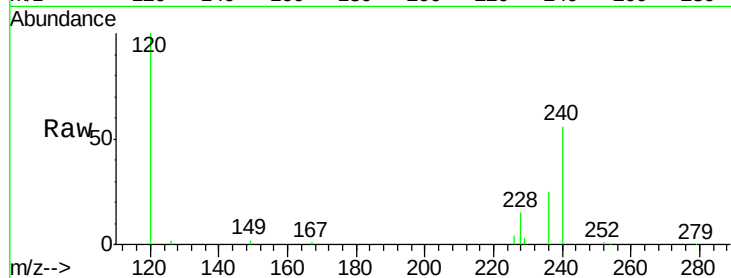
#25
Benzo(a)anthracene
Concen: 0.07 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.4	24.0	36.0
229	20.2	13.8	20.6

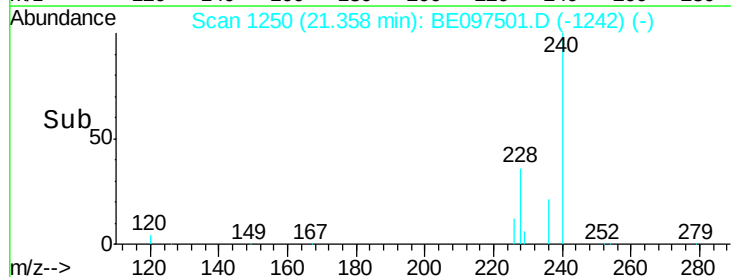
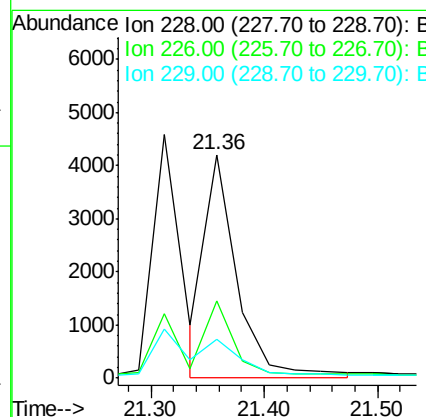
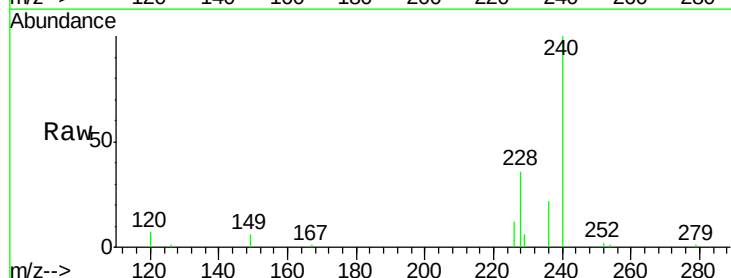
Manual Integrations
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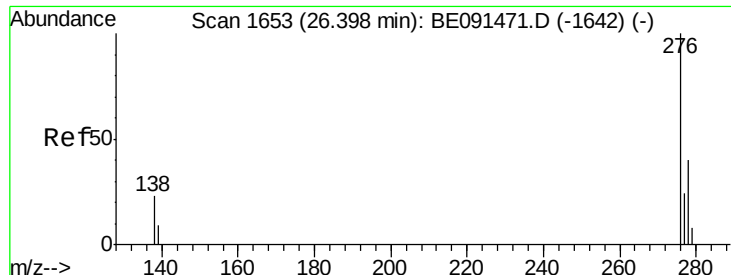
mohammad
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#26
Chrysene
Concen: 0.07 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

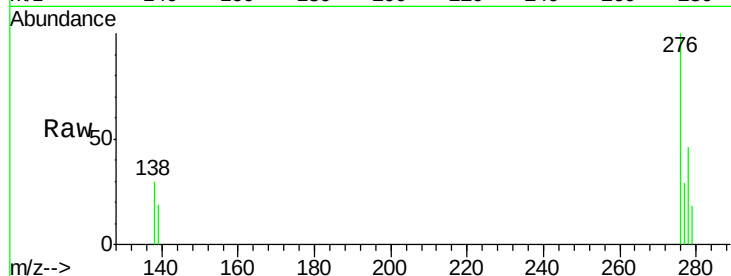
Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.7	18.9	28.3#
229	17.6	19.1	28.7#





#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: BE097501.D
 Acq: 21 Mar 2016 16:19

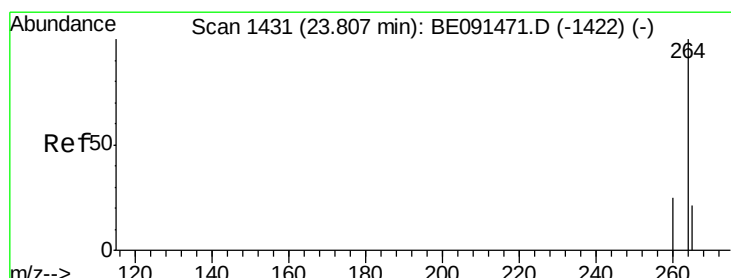
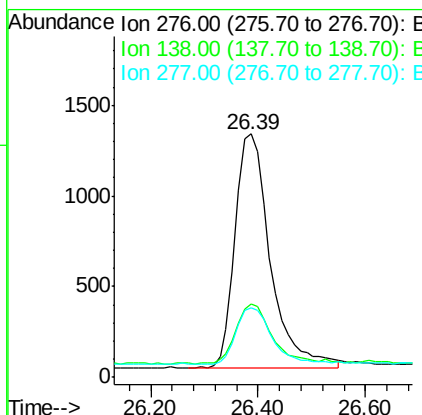
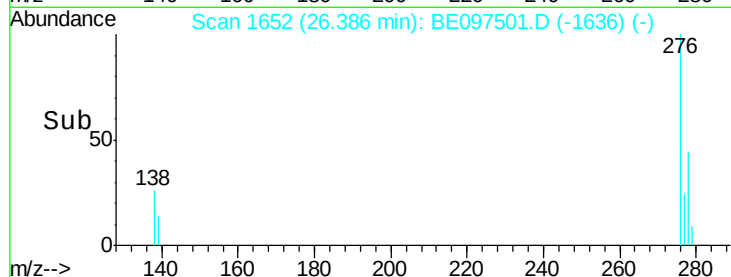
Instrument :
 BNA_E
 ClientSampleId :



Tgt Ion	Ratio	Resp	Lower	Upper
276	100	5870		
138	26.3		20.2	30.4
277	24.7		19.8	29.8

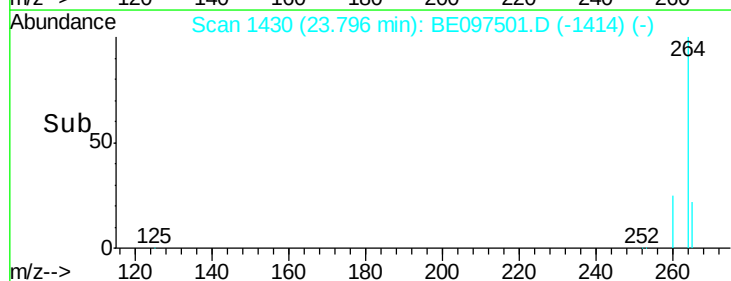
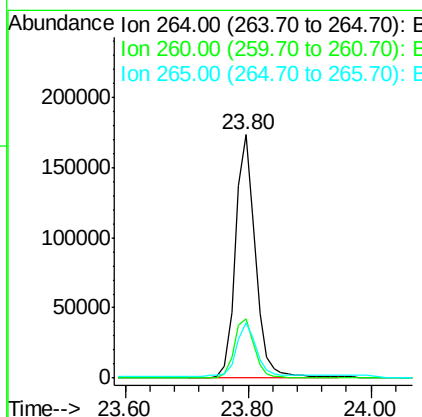
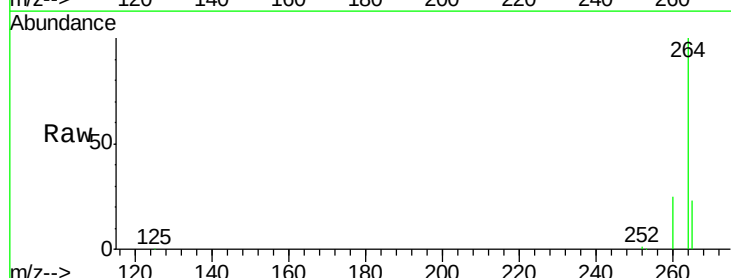
Manual Integrations
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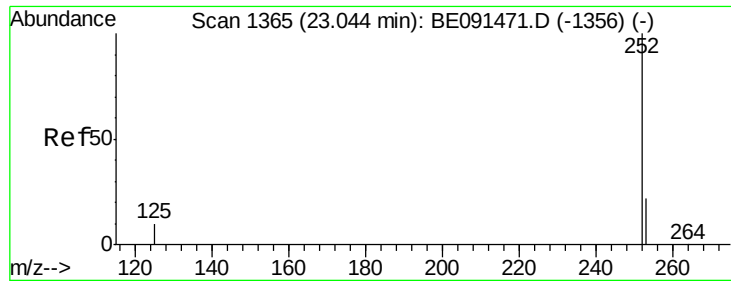
mohammad
 3/21/2016 6:40:20 PM



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.80 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: BE097501.D
 Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	392892		
260	24.5		20.1	30.1
265	22.7		18.3	27.5





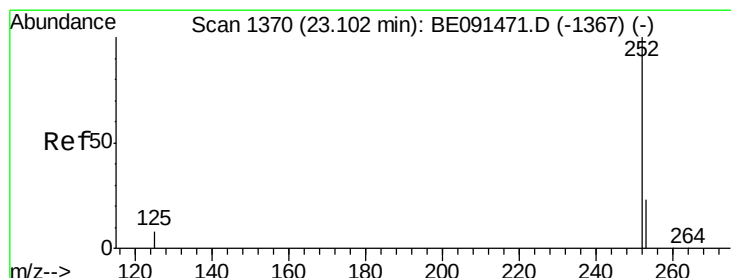
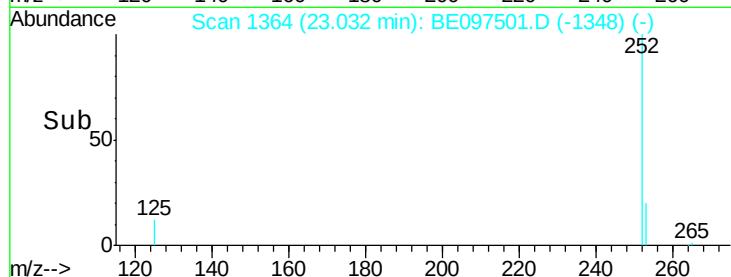
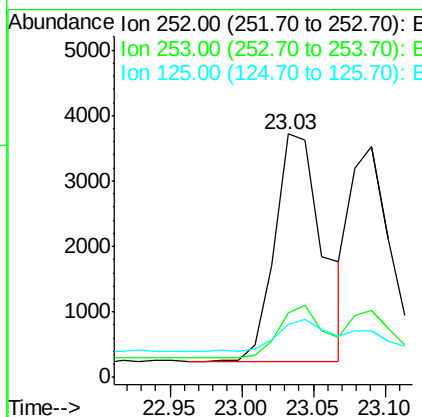
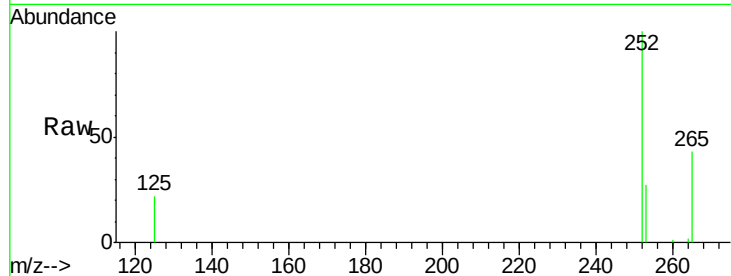
#29
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Instrument :
BNA_E
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.6	18.7	28.1
125	21.7	9.8	14.6

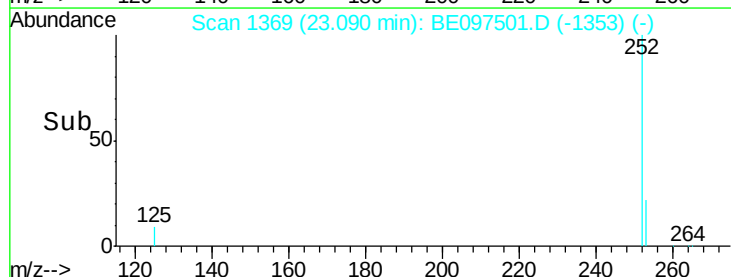
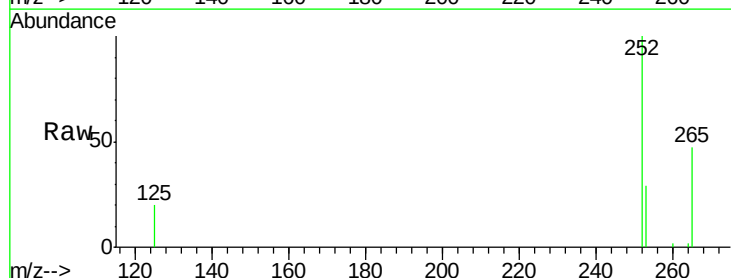
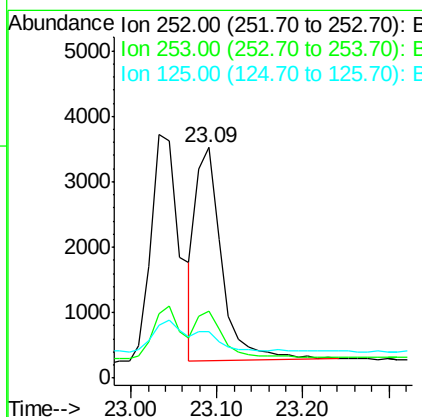
Manual Integrations
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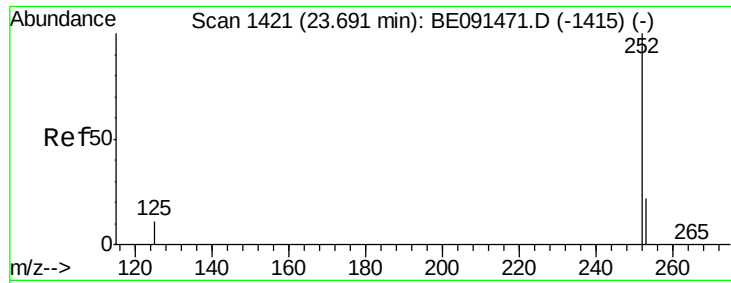
mohammad
3/21/2016 6:40:20 PM



#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

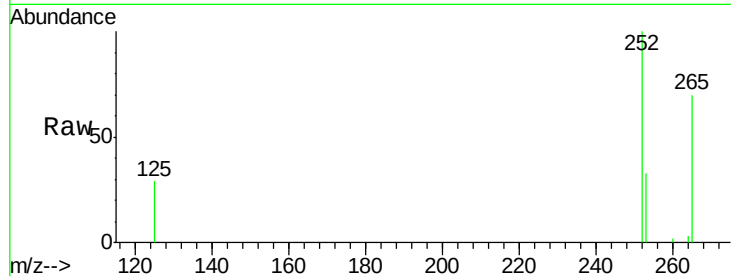
Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	20.4	9.4	14.2





#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

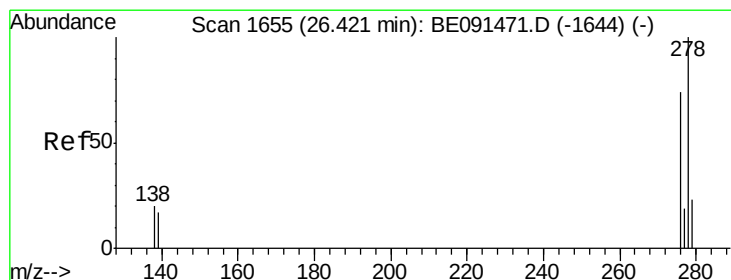
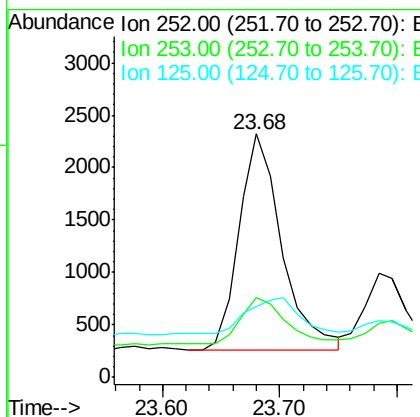
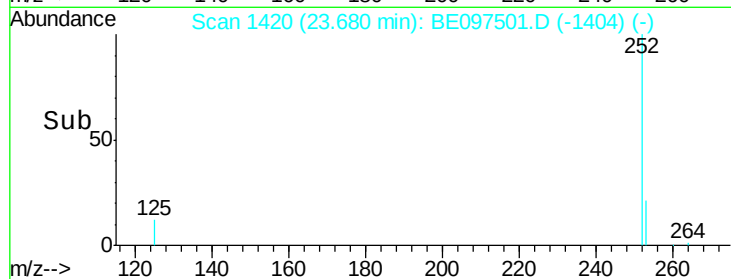
Instrument :
BNA_E
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.5	19.4	29.0#
125	29.3	11.4	17.2#

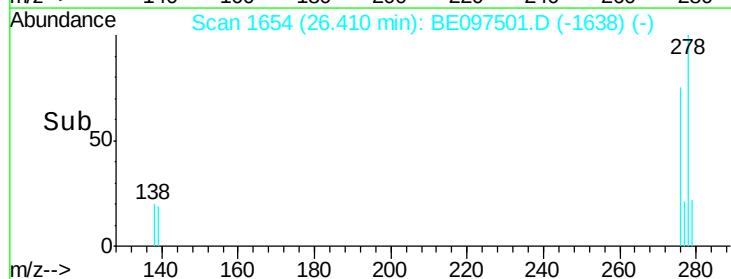
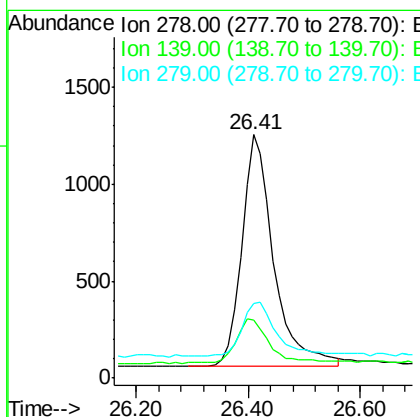
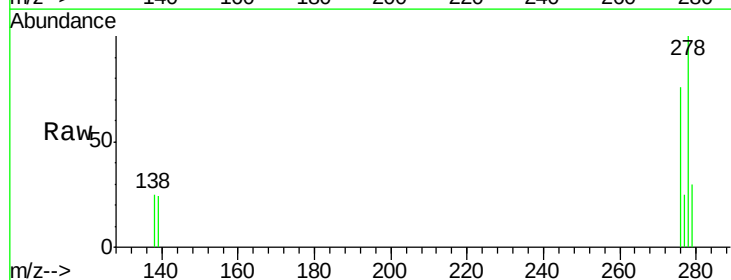
Manual Integrations
APPROVED

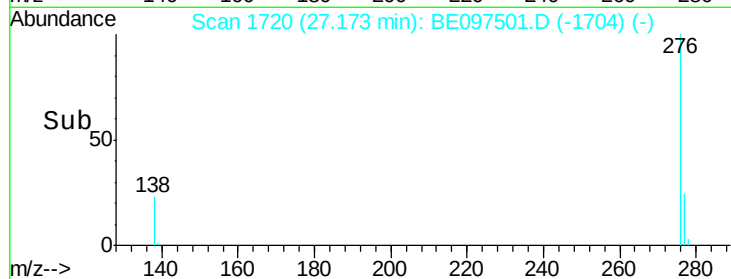
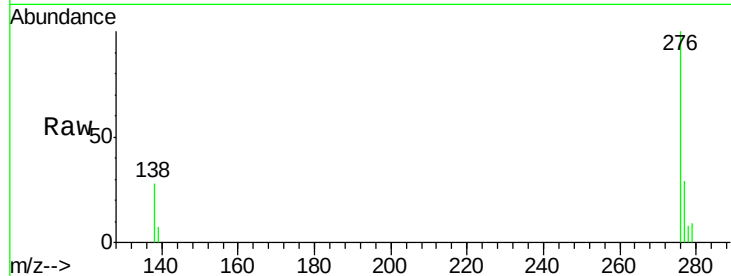
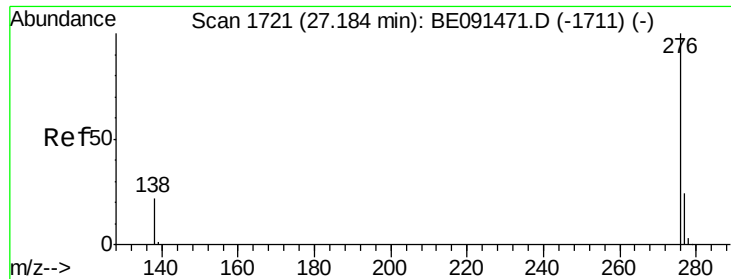
mohammad
3/21/2016 6:40:20 PM



#32
Dibenzo(a,h)anthracene
Concen: 0.04 ng
RT: 26.41 min Scan# 1654
Delta R.T. -0.01 min
Lab File: BE097501.D
Acq: 21 Mar 2016 16:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.0	14.2	21.4#
279	30.5	19.6	29.4#





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.17 min Scan# 1720

Delta R.T. -0.01 min

Lab File: BE097501.D

Acq: 21 Mar 2016 16:19

Instrument :

BNA_E

ClientSampleId :

Tgt	Ion	276	Resp:	5278
Ion	Ratio	Lower	Upper	
276	100			
277	29.0	19.4	29.2	
138	28.0	18.2	27.4	

Manual Integrations
APPROVED

mohammad
3/21/2016 6:40:20 PM

