

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
 Data File : BM004693.D
 Acq On : 18 Mar 2016 22:34
 Operator : UM/SJ
 Sample : MDL-04-W
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-W

Manual Integrations
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 3/21/2016 2:46:38 PM

Quant Time: Mar 21 01:34:57 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BM031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 19 07:50:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	28688	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	113863	5.00	ng	-0.02
10) Acenaphthene-d10	14.46	164	60579	5.00	ng	0.00
16) Phenanthrene-d10	17.22	188	108685	5.00	ng	0.00
22) Chrysene-d12	21.39	240	131736	5.00	ng	0.00
28) Perylene-d12	23.69	264	108392	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	45569	6.88	ng	0.00
5) Phenol-d6	6.99	99	54640	6.74	ng	0.00
7) Nitrobenzene-d5	8.99	82	20093	3.66	ng	0.00
11) 2,4,6-Tribromophenol	15.95	330	12534	6.24	ng	0.00
12) 2-Fluorobiphenyl	13.09	172	75593	4.36	ng	0.00
24) Terphenyl-d14	19.84	244	65772	3.95	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	263	0.02	ng	# 82
3) n-Nitrosodimethylamine	3.66	42	153	0.05	ng	# 89
8) Naphthalene	10.67	128	1620	0.05	ng	# 89
9) 2-Methylnaphthalene	12.29	142	1036	0.05	ng	# 94
13) Acenaphthylene	14.17	152	1268	0.04	ng	98
14) Acenaphthene	14.53	154	1180	0.06	ng	87
15) Fluorene	15.50	166	1076	0.05	ng	# 67
17) Hexachlorobenzene	16.53	284	359	0.05	ng	# 100
18) Pentachlorophenol	16.86	266	196	0.17	ng	85
19) Phenanthrene	17.24	178	2464	0.06	ng	96
20) Anthracene	17.34	178	1440	0.05	ng	99
21) Fluoranthene	19.26	202	2000	0.05	ng	98
23) Pyrene	19.64	202	2133	0.04	ng	98
25) Benzo(a)anthracene	21.37	228	2353m	0.04	ng	
26) Chrysene	21.43	228	1965m	0.05	ng	
27) Indeno(1,2,3-cd)pyrene	26.02	276	1922	0.04	ng	100
29) Benzo(b)fluoranthene	23.00	252	2055	0.05	ng	# 72
30) Benzo(k)fluoranthene	23.04	252	1914	0.05	ng	# 73
31) Benzo(a)pyrene	23.59	252	1728	0.05	ng	# 62
32) Dibenzo(a,h)anthracene	26.03	278	1508	0.05	ng	# 75
33) Benzo(g,h,i)perylene	26.73	276	1757	0.05	ng	# 86

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

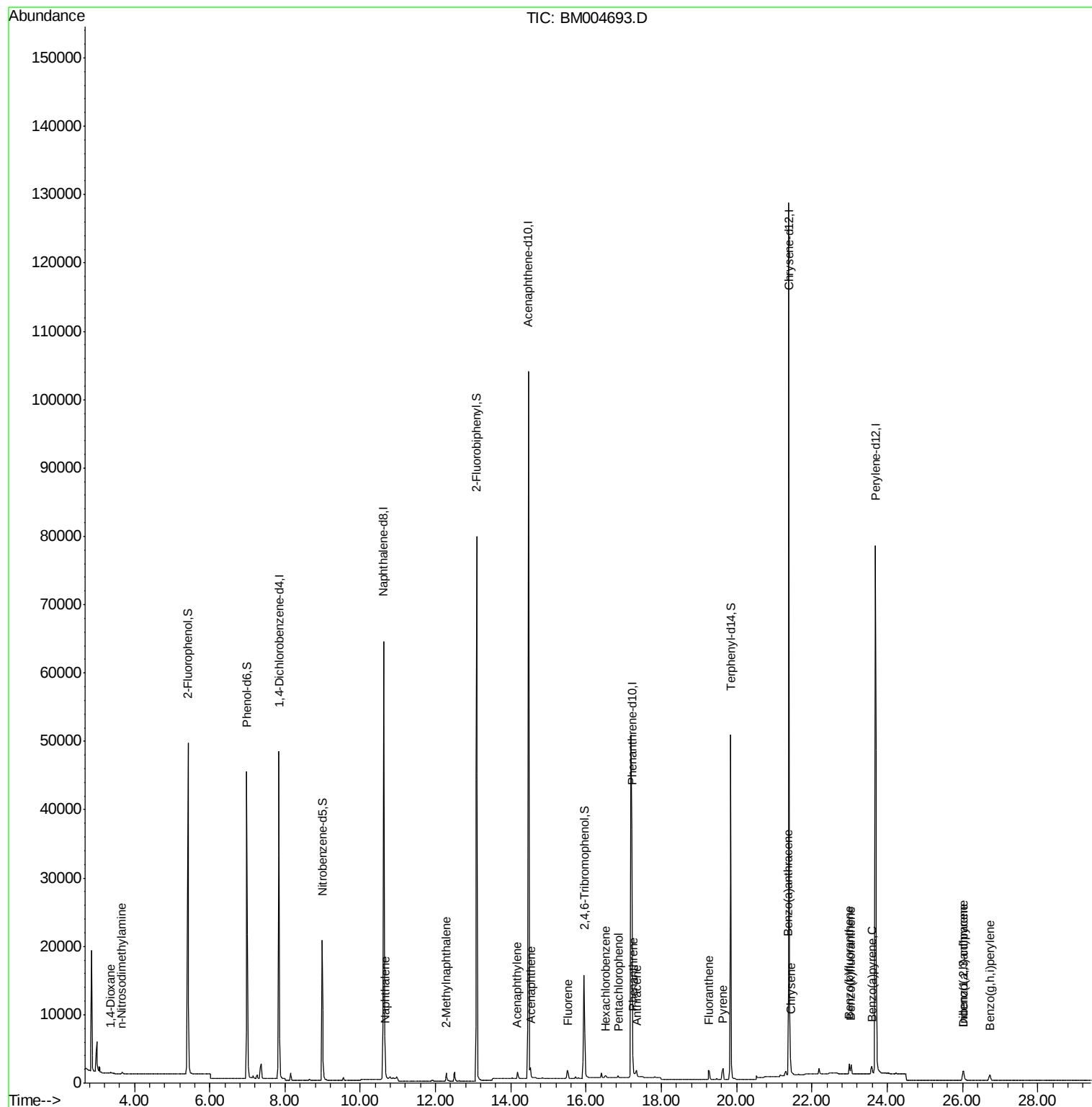
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
Data File : BM004693.D
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Sample : MDL-04-W
Misc :
ALS Vial : 14 Sample Multiplier: 1

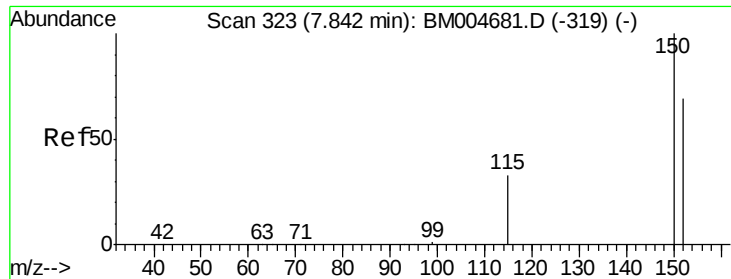
Instrument :
BNA_M
ClientSampleId :
MDL-04-W

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Quant Time: Mar 21 01:34:57 2016
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 19 07:50:46 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 323

Delta R.T. 0.00 min

Lab File: BM004693.D

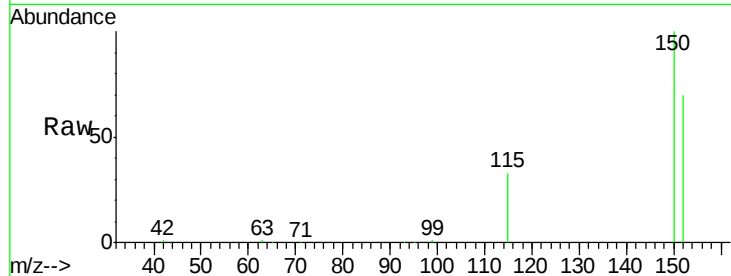
Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

ClientSampleId :

MDL-04-W



Tgt Ion:152 Resp: 28688

Ion Ratio Lower Upper

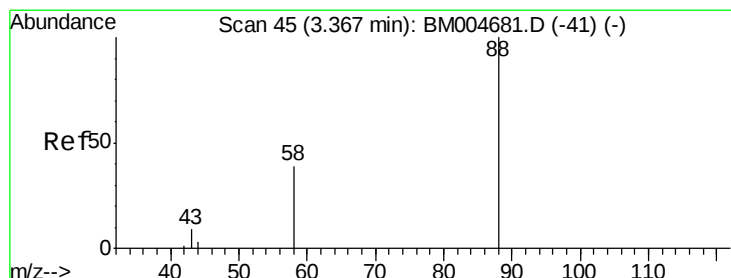
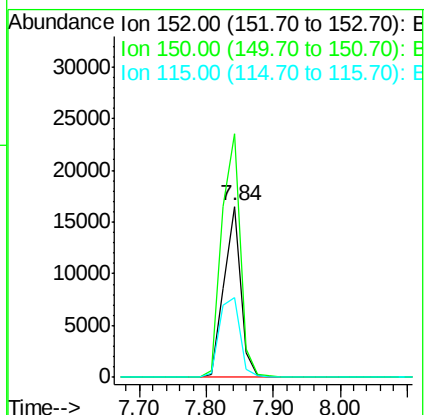
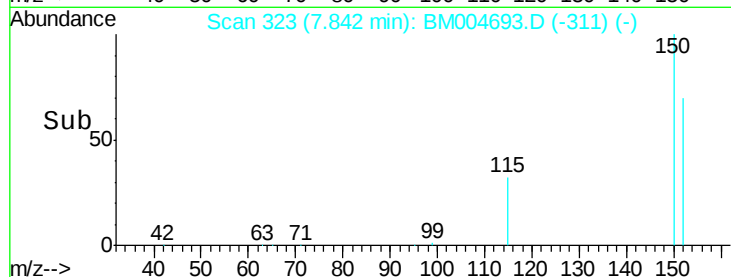
152 100

150 142.4 115.9 173.9

115 46.5 38.4 57.6

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#2

1,4-Dioxane

Concen: 0.02 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

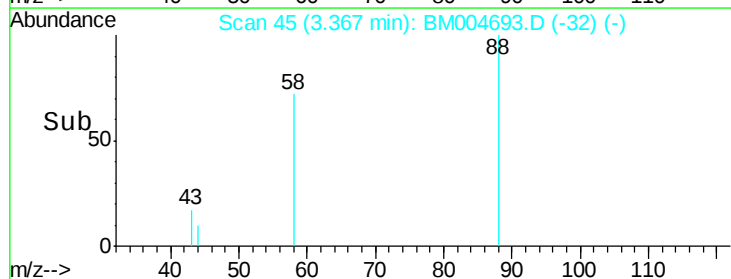
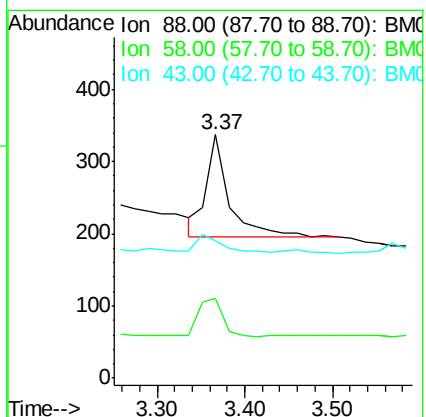
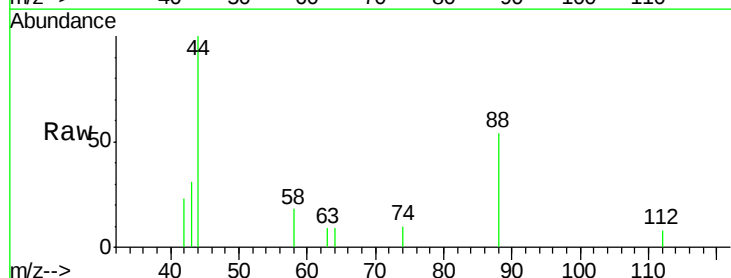
Tgt Ion: 88 Resp: 263

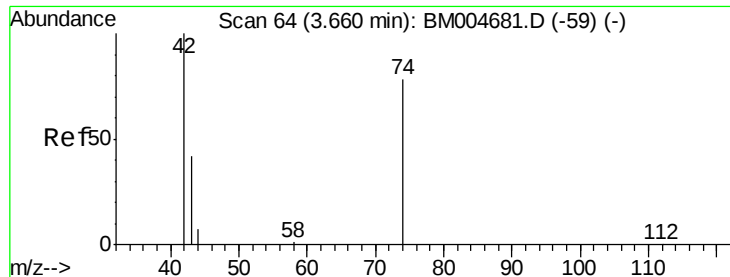
Ion Ratio Lower Upper

88 100

58 39.9 43.9 65.9#

43 19.0 19.9 29.9#





#3

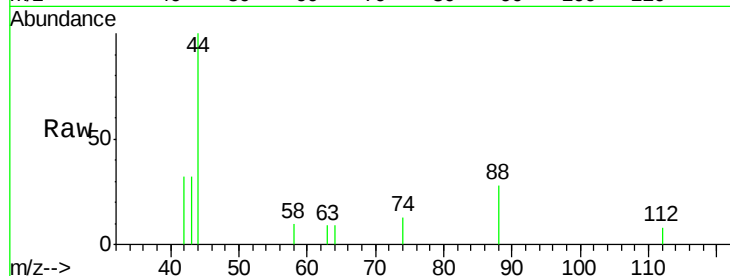
n-Nitrosodimethylamine
Concen: 0.05 ng
RT: 3.66 min Scan# 64
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Instrument :
BNA_M
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
42	100		
74	137.9	120.9	181.3
44	0.0	6.0	9.0#

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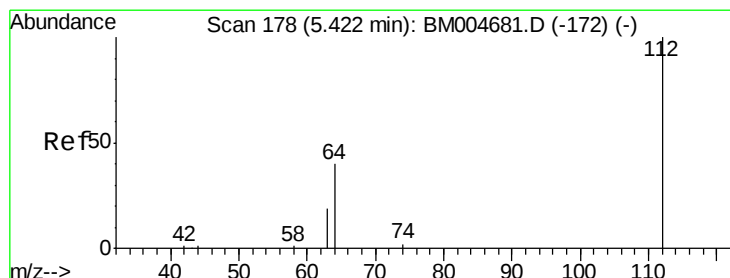
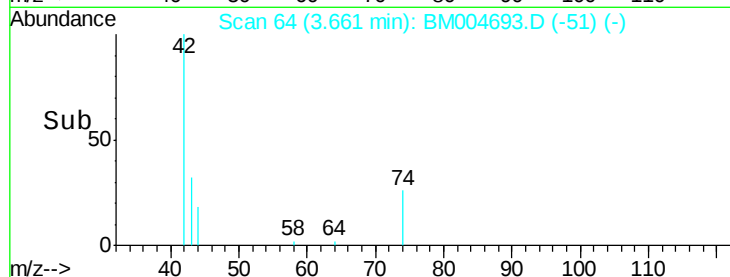
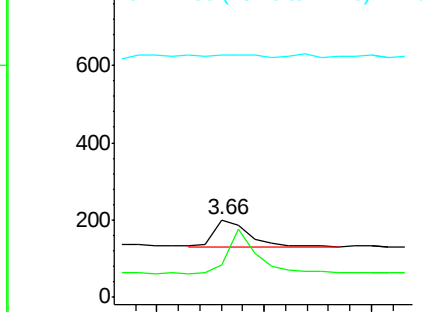


Abundance

Ion 42.00 (41.70 to 42.70): BM004681.D (-59) (-)

Ion 74.00 (73.70 to 74.70): BM004681.D (-59) (-)

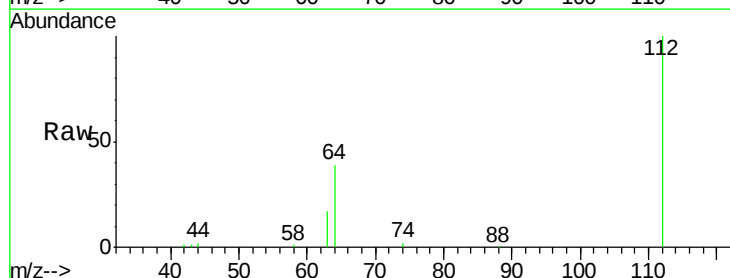
Ion 44.00 (43.70 to 44.70): BM004681.D (-59) (-)



#4

2-Fluorophenol
Concen: 6.88 ng
RT: 5.42 min Scan# 178
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	46.9	37.0	55.6
63	24.1	19.3	28.9

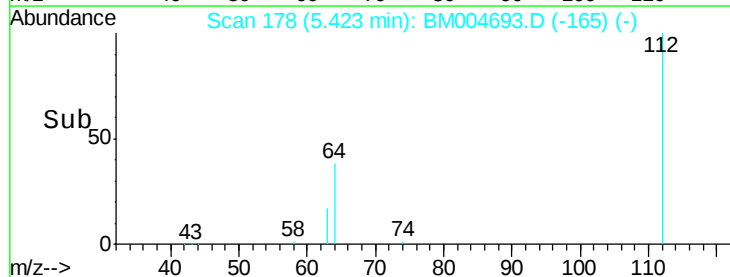
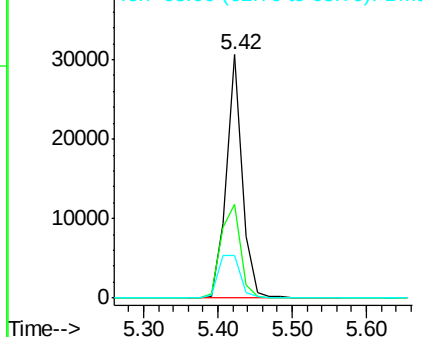


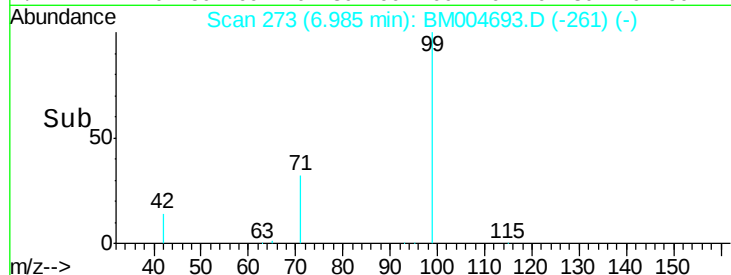
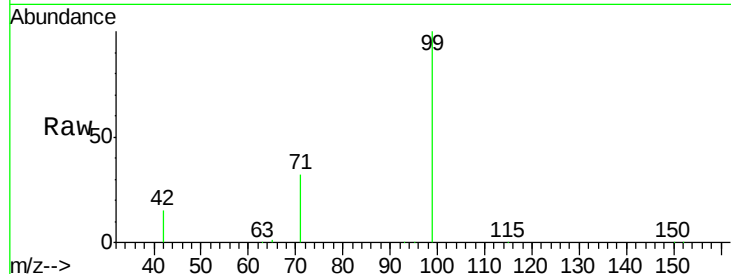
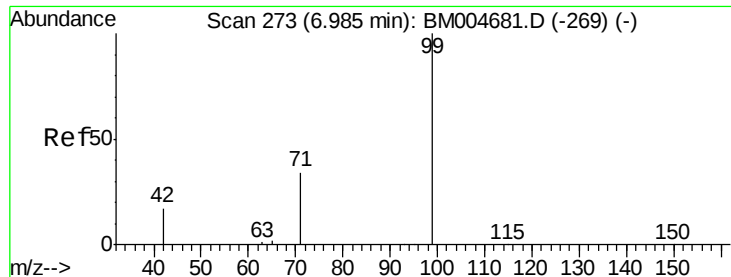
Abundance

Ion 112.00 (111.70 to 112.70): BM004681.D (-172) (-)

Ion 64.00 (63.70 to 64.70): BM004681.D (-172) (-)

Ion 63.00 (62.70 to 63.70): BM004681.D (-172) (-)





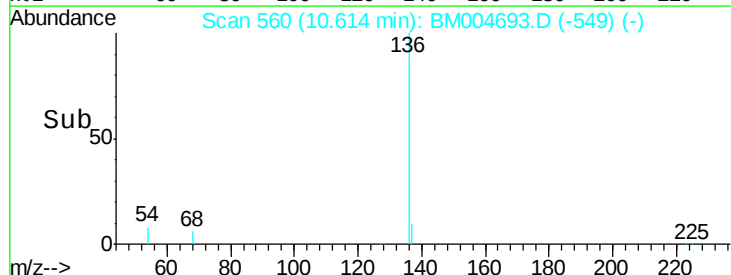
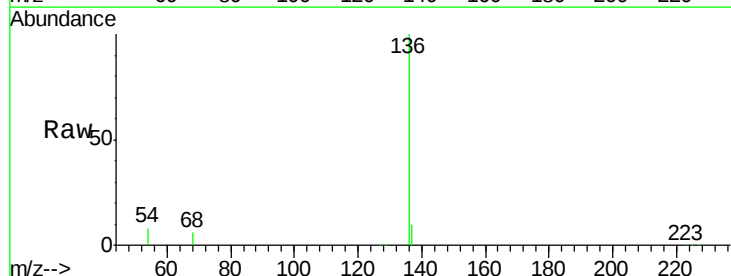
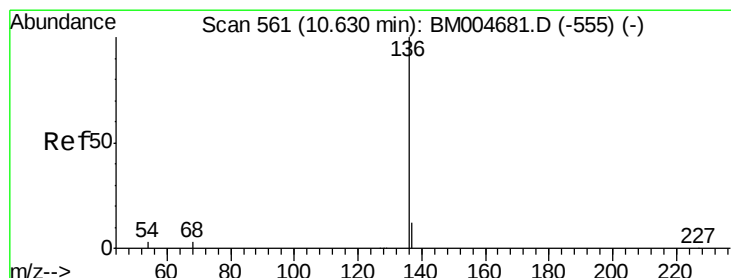
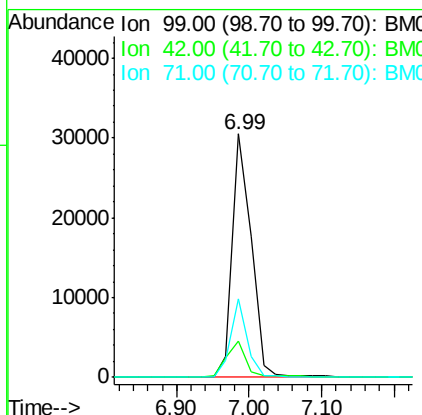
#5
Phenol-d6
Concen: 6.74 ng
RT: 6.99 min Scan# 273
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
99	100		
42	14.3	12.7	19.1
71	27.9	22.9	34.3

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BNA_M
ClientSampleId :
MDL-04-W

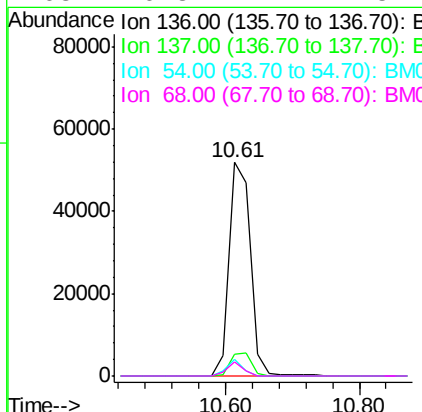
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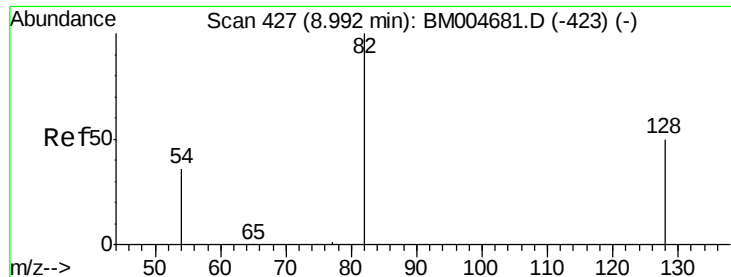
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#6
Naphthalene-d8
Concen: 5.00 ng
RT: 10.61 min Scan# 560
Delta R.T. -0.02 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.0	9.4	14.2
54	7.6	2.2	3.4#
68	6.3	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 3.66 ng

RT: 8.99 min Scan# 427

Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

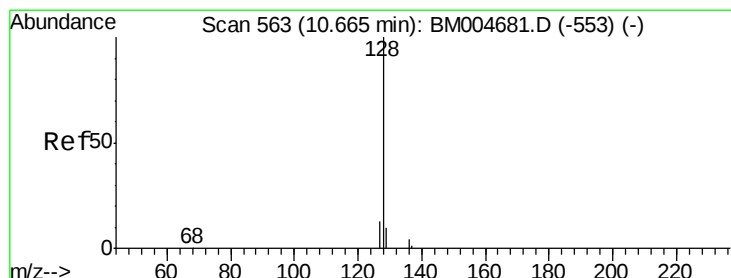
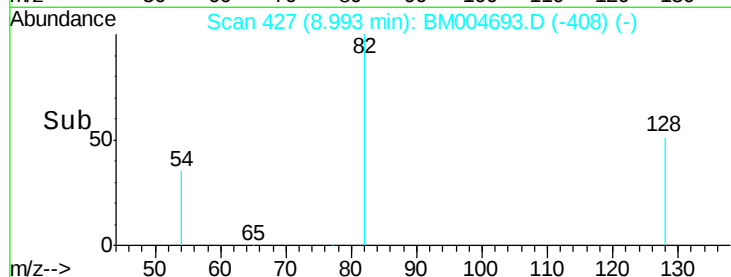
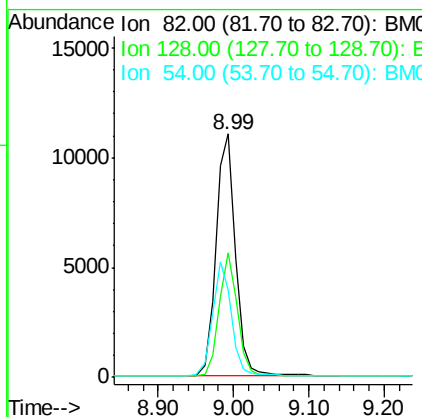
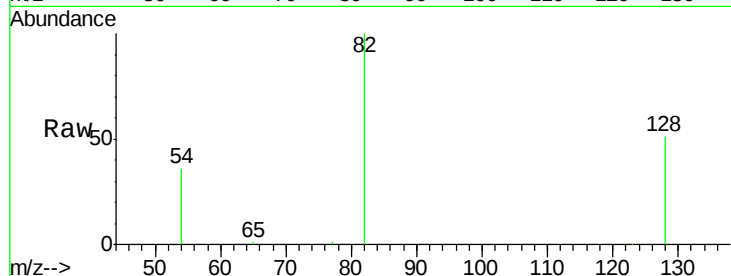
ClientSampleId :

MDL-04-W

Tgt Ion:	82	Resp:	20093
Ion Ratio	Lower	Upper	
82	100		
128	51.0	41.8	62.8
54	35.7	32.9	49.3

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#8

Naphthalene

Concen: 0.05 ng

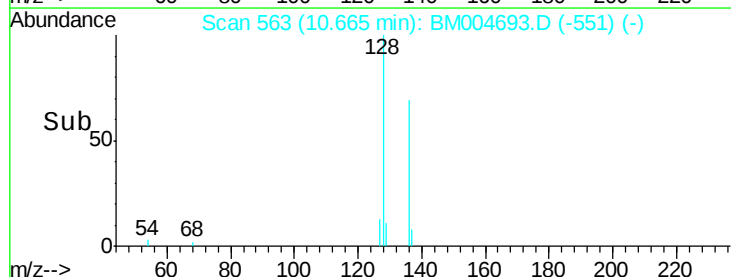
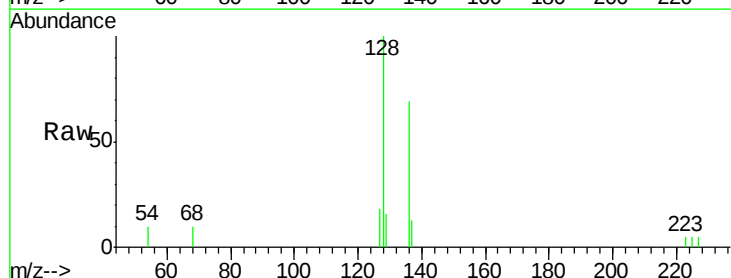
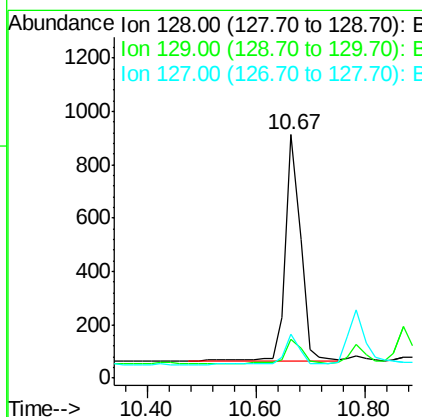
RT: 10.67 min Scan# 563

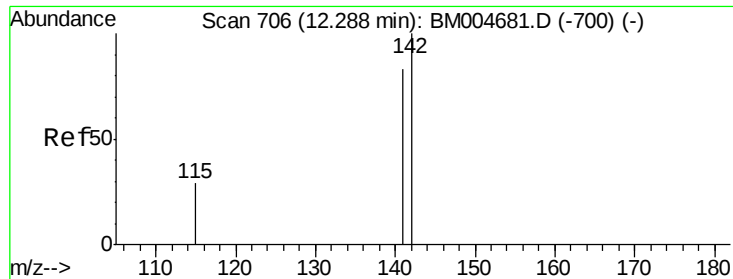
Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Tgt Ion:	128	Resp:	1620
Ion Ratio	Lower	Upper	
128	100		
129	16.2	8.9	13.3#
127	18.1	11.3	16.9#





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.29 min Scan# 706

Delta R.T. 0.00 min

Lab File: BM004693.D

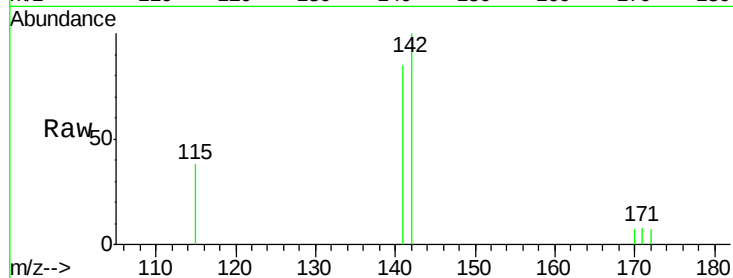
Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

ClientSampleId :

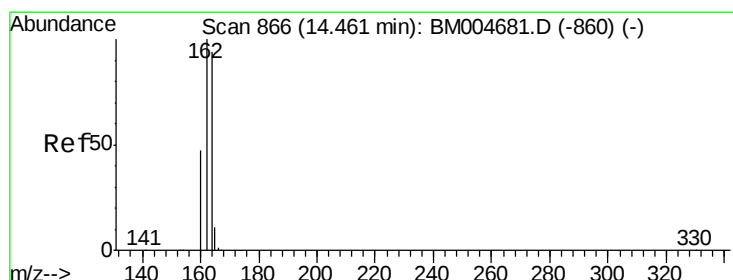
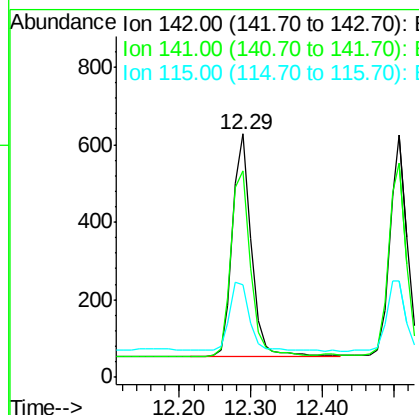
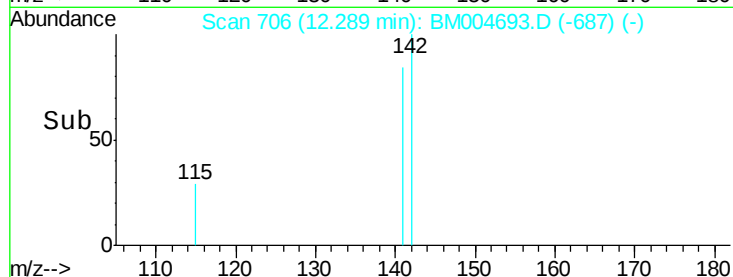
MDL-04-W



Tgt Ion:	142	Resp:	1036
Ion Ratio	Lower	Upper	
142	100		
141	84.9	66.2	99.2
115	37.7	23.8	35.8

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#10

Acenaphthene-d10

Concen: 5.00 ng

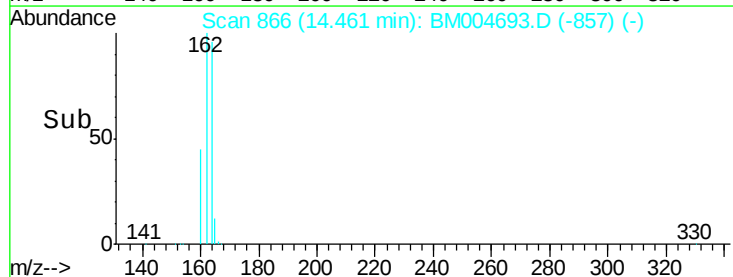
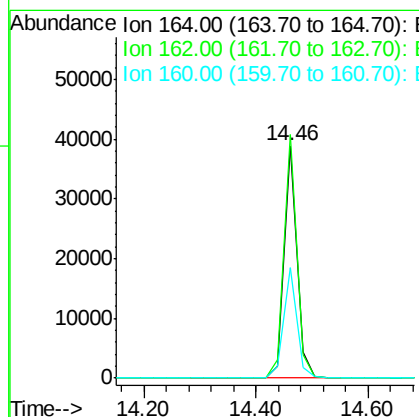
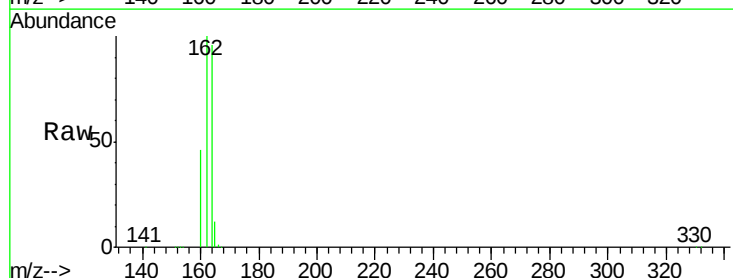
RT: 14.46 min Scan# 866

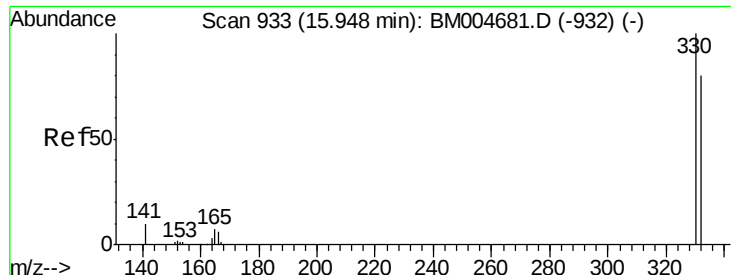
Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Tgt Ion:	164	Resp:	60579
Ion Ratio	Lower	Upper	
164	100		
162	104.7	85.4	128.0
160	47.7	40.2	60.2





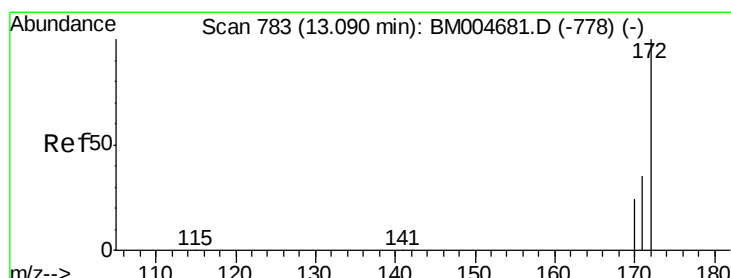
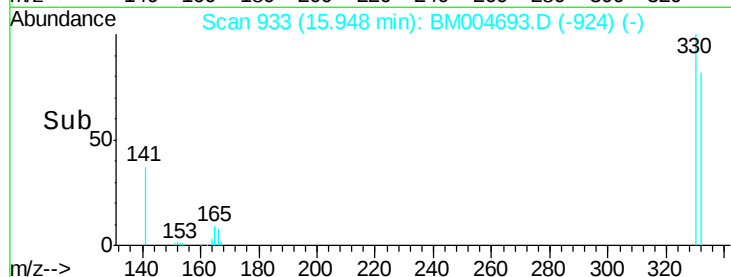
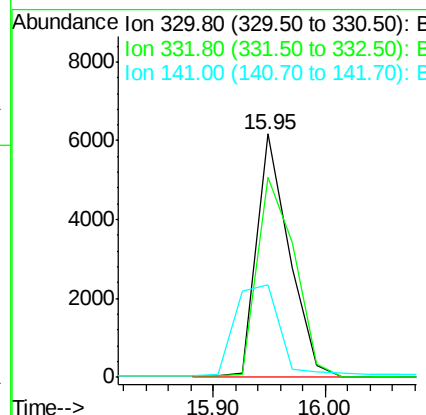
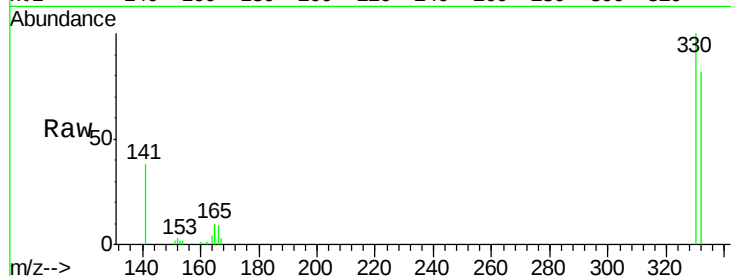
#11
 2,4,6-Tribromophenol
 Concen: 6.24 ng
 RT: 15.95 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: BM004693.D
 Acq: 18 Mar 2016 22:34

Instrument :
 BNA_M
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 MDL-04-W

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.9	93.9	140.9
141	51.5	42.2	63.2

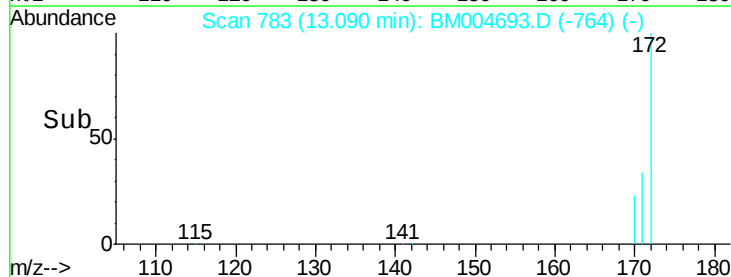
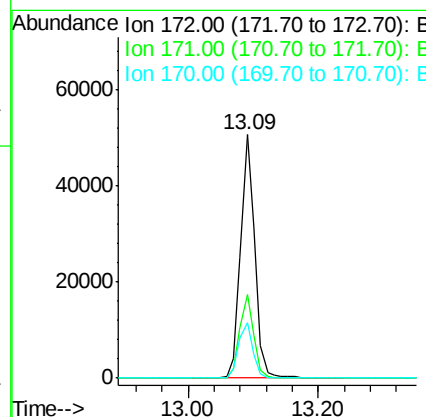
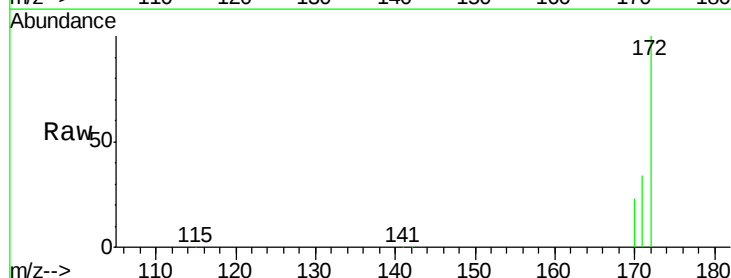
Manual Integrations
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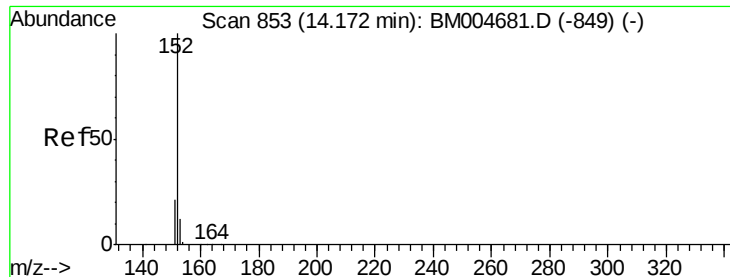
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#12
 2-Fluorobiphenyl
 Concen: 4.36 ng
 RT: 13.09 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BM004693.D
 Acq: 18 Mar 2016 22:34

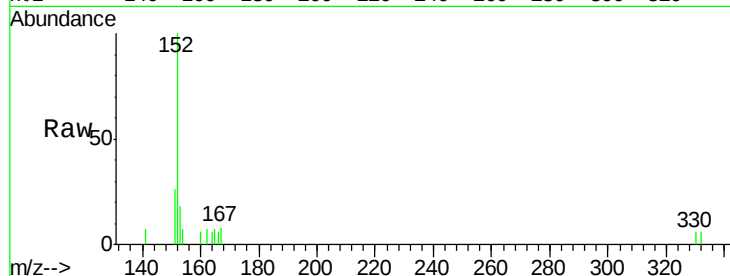
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.2	42.2
170	22.8	19.4	29.2





#13
Acenaphthylene
Concen: 0.04 ng
RT: 14.17 min Scan# 853
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

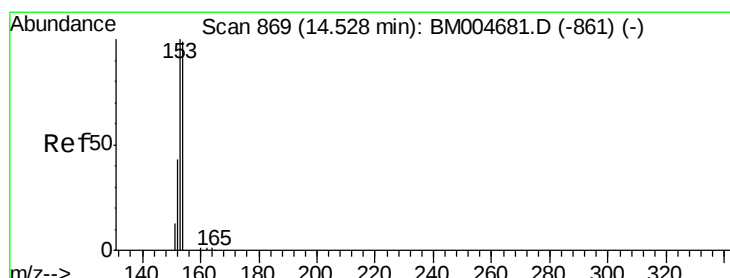
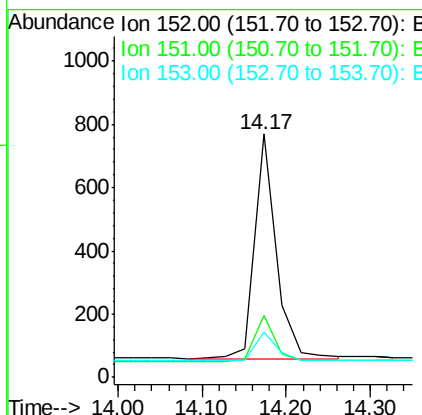
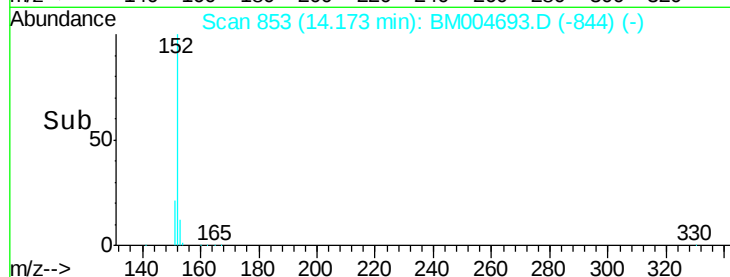
Instrument :
BNA_M
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MDL-04-W



Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.8	23.6
153	13.3	10.2	15.2

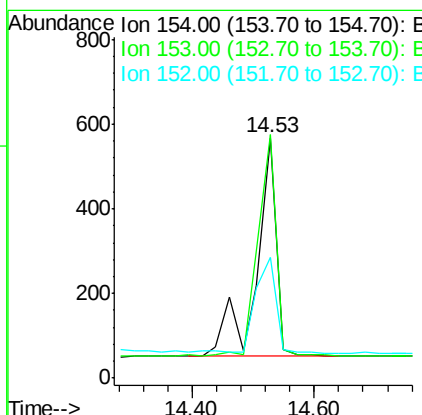
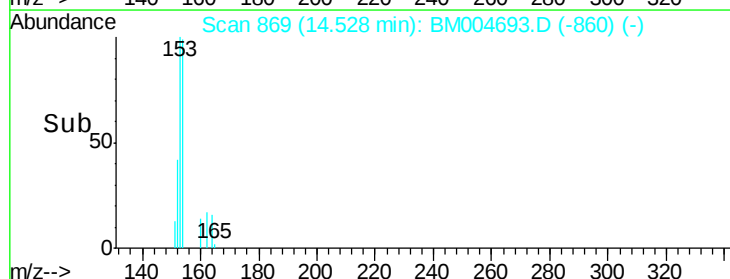
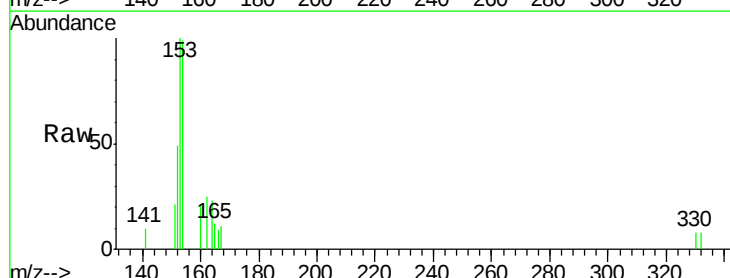
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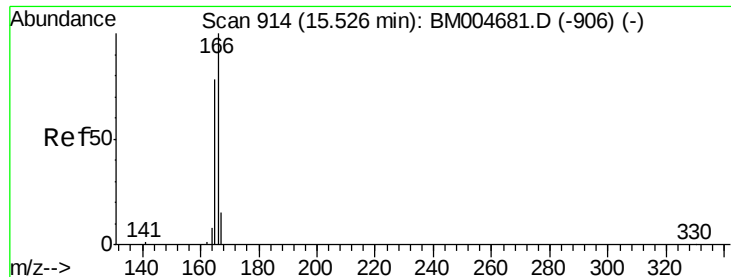
mohammad
3/21/2016 2:46:38 PM



#14
Acenaphthene
Concen: 0.06 ng
RT: 14.53 min Scan# 869
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
154	100		
153	89.9	83.8	125.6
152	44.2	40.3	60.5





#15

Fluorene

Concen: 0.05 ng

RT: 15.50 min Scan# 913

Delta R.T. -0.02 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

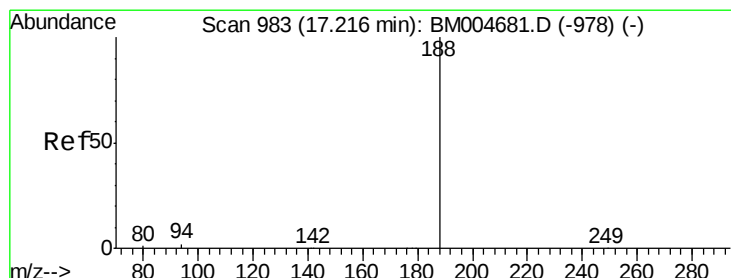
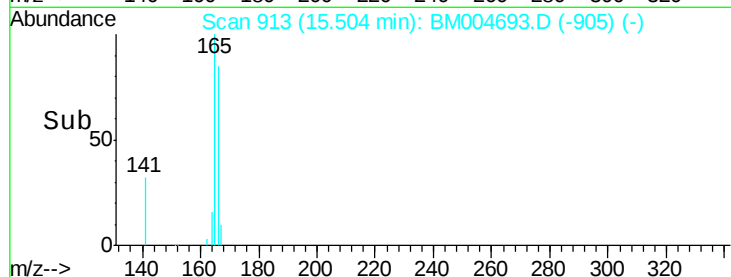
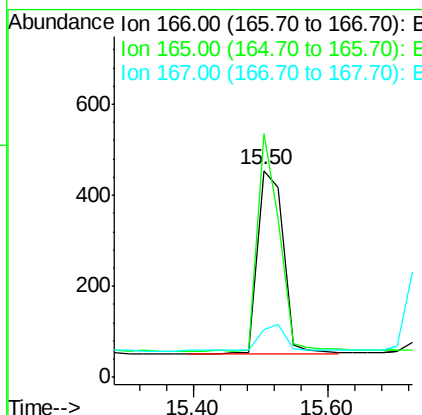
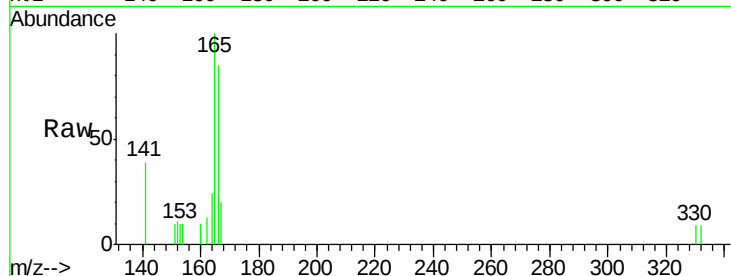
ClientSampleId :

MDL-04-W

Tgt	Ion	Ratio	Lower	Upper
166	100			
165	100.4	0.0	0.0	0.0
167	0.0	10.6	15.8	

Manual Integrations
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#16

Phenanthrene-d10

Concen: 5.00 ng

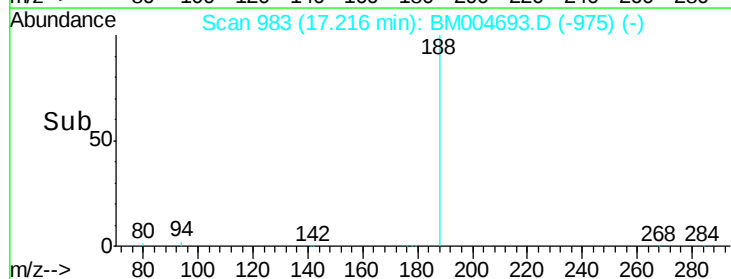
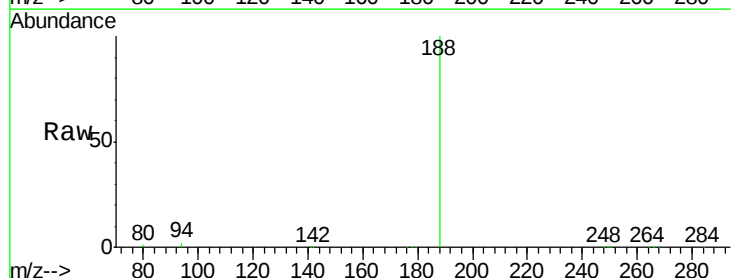
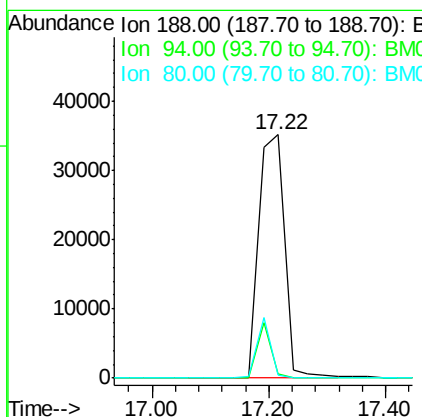
RT: 17.22 min Scan# 983

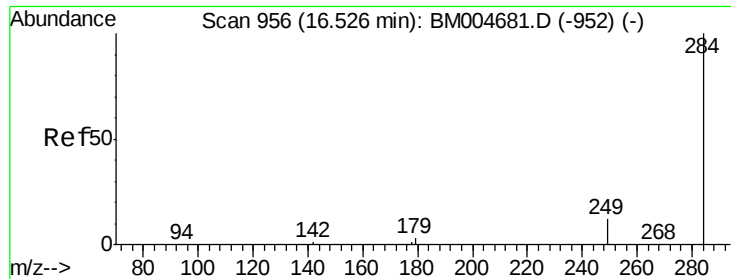
Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Tgt	Ion	Ratio	Lower	Upper
188	100			
94	1.8	1.4	2.0	
80	1.5	1.0	1.6	





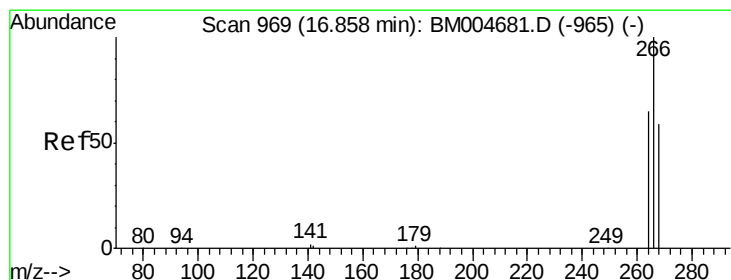
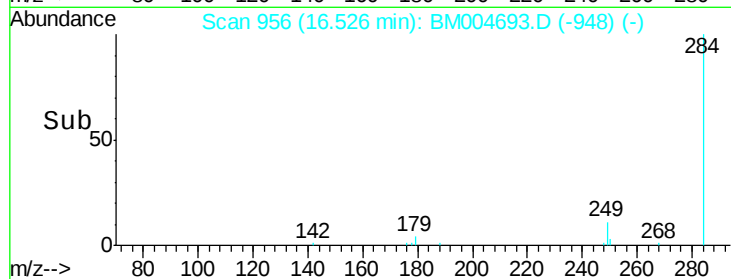
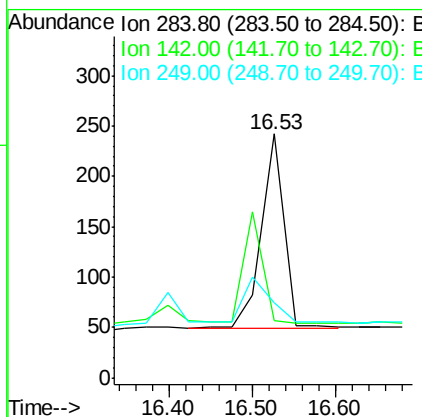
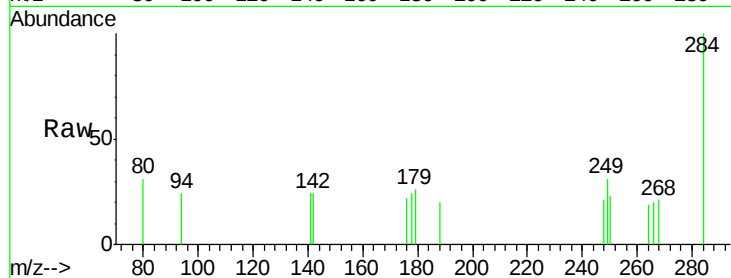
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.53 min Scan# 956
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Instrument :
BNA_M
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0

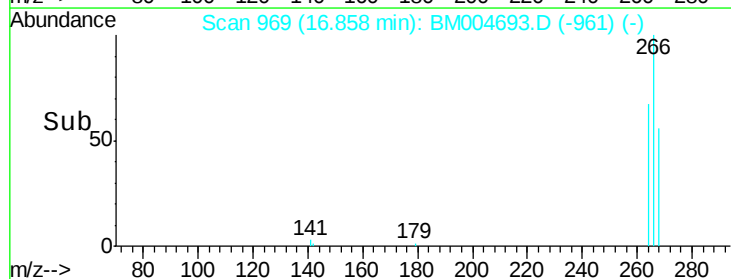
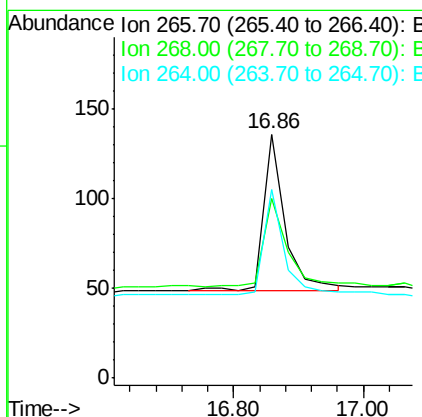
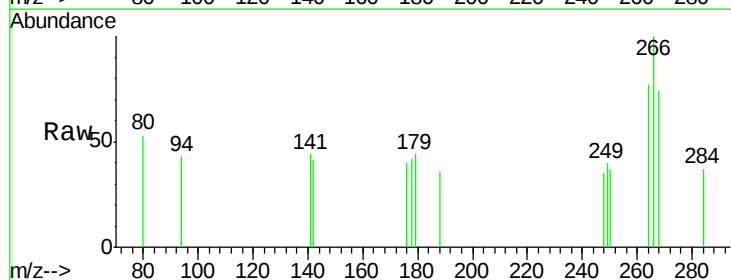
Manual Integrations
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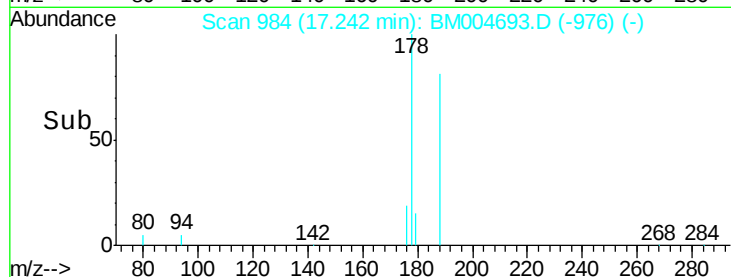
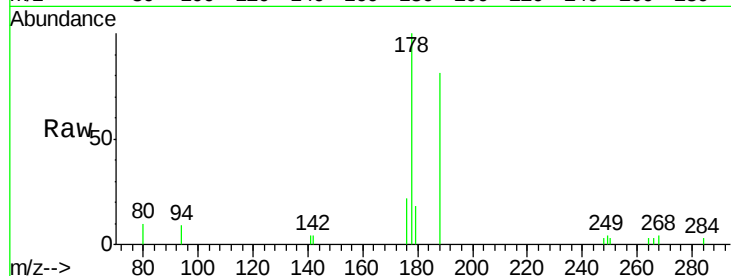
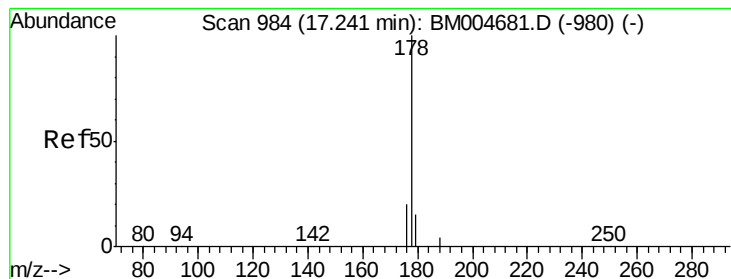
mohammad
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#18
Pentachlorophenol
Concen: 0.17 ng
RT: 16.86 min Scan# 969
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	73.5	49.1	73.7
264	77.2	52.9	79.3





#19

Phenanthrene

Concen: 0.06 ng

RT: 17.24 min Scan# 984

Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Tgt Ion:	178	Resp:	2464
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.5	23.3
179	18.3	12.2	18.4

Instrument :

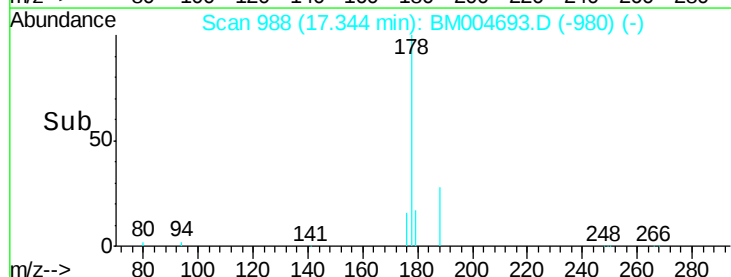
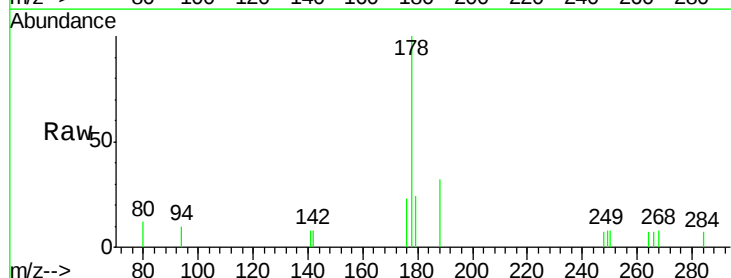
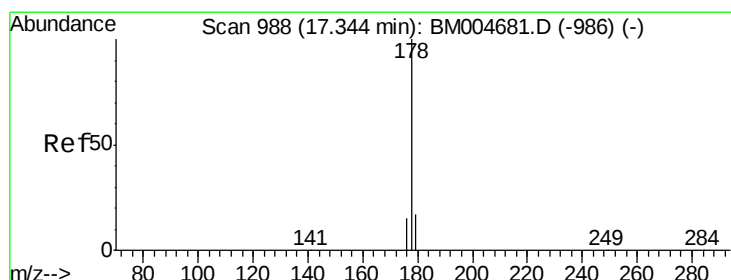
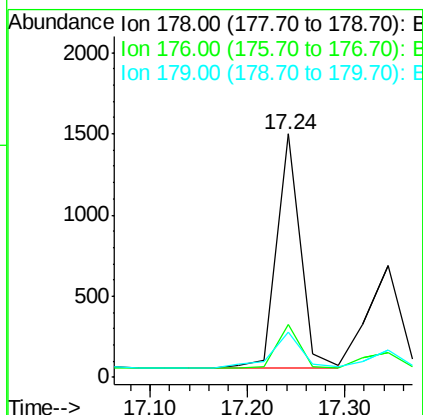
BNA_M

ClientSampleId :

MDL-04-W

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#20

Anthracene

Concen: 0.05 ng

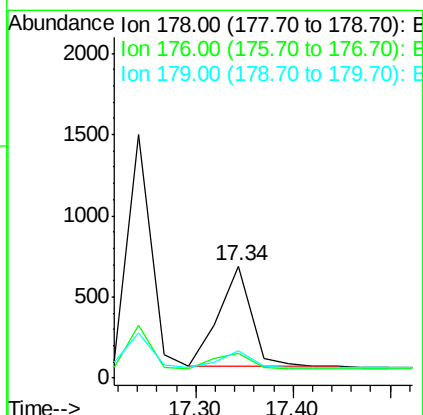
RT: 17.34 min Scan# 988

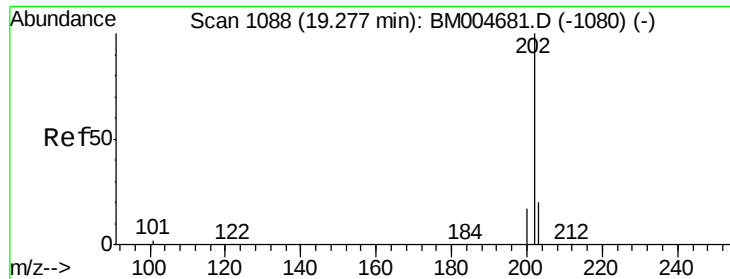
Delta R.T. 0.00 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

Tgt Ion:	178	Resp:	1440
Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.5	21.7
179	16.1	12.6	18.8





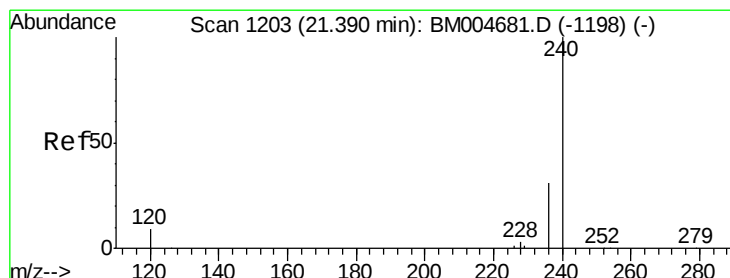
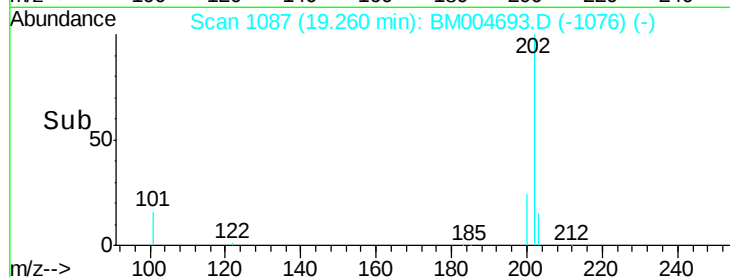
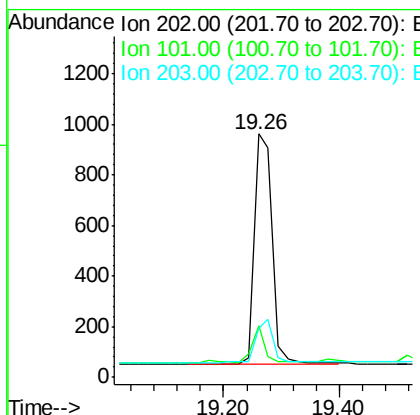
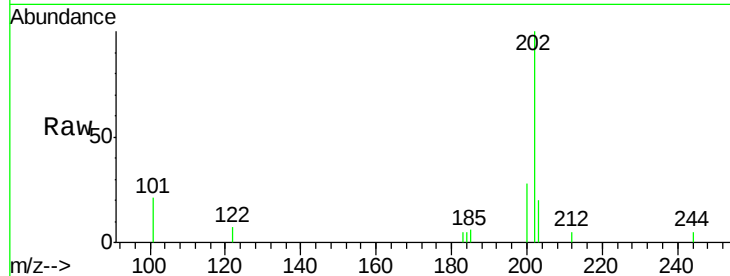
#21
 Fluoranthene
 Concen: 0.05 ng
 RT: 19.26 min Scan# 1087
 Delta R.T. -0.02 min
 Lab File: BM004693.D
 Acq: 18 Mar 2016 22:34

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-W

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.7	13.1
203	18.8	14.1	21.1

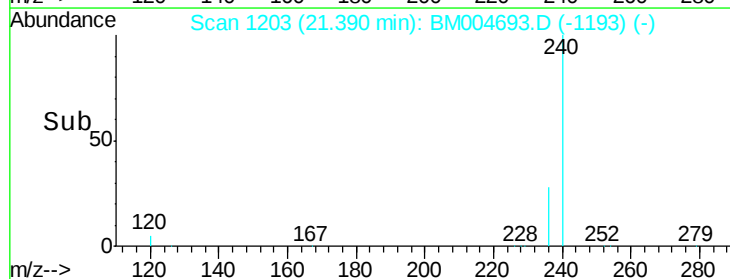
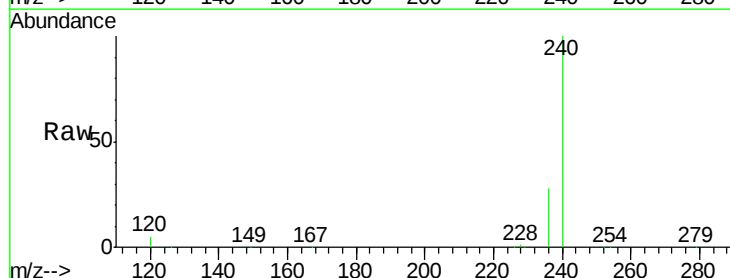
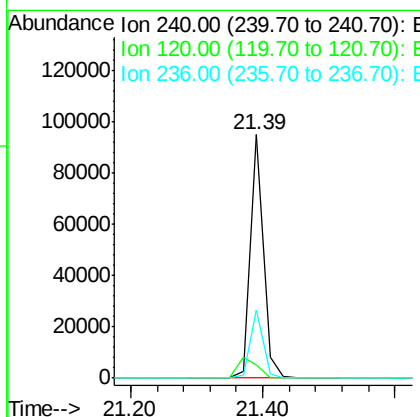
Manual Integrations
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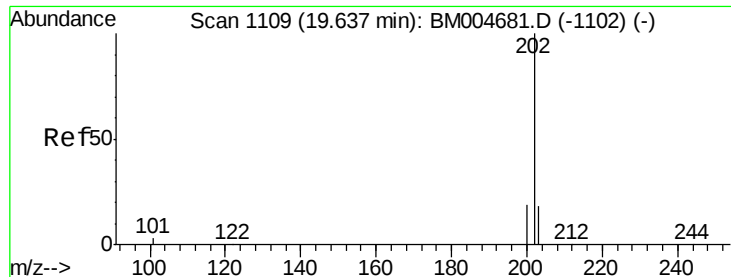
mohammad
 3/21/2016 2:46:38 PM



#22
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.39 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: BM004693.D
 Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.4	7.4	11.2#
236	28.2	24.5	36.7





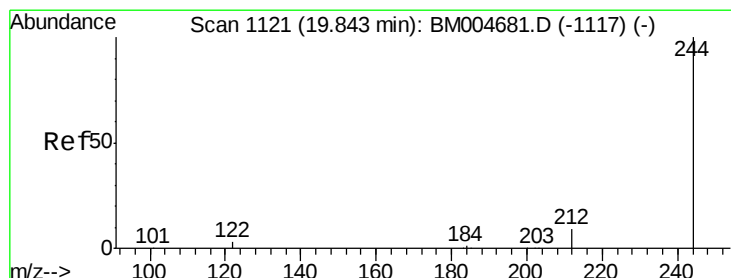
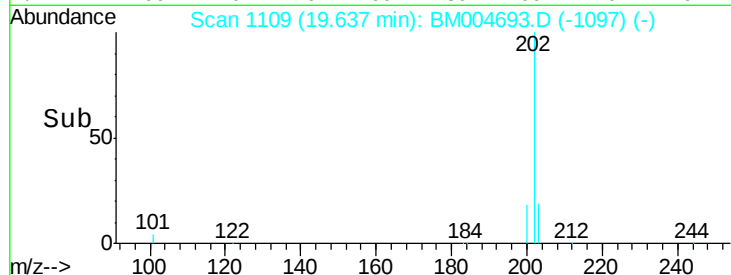
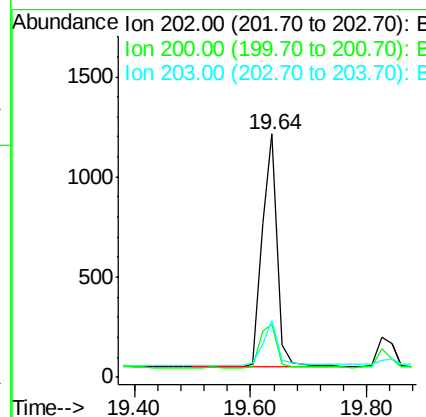
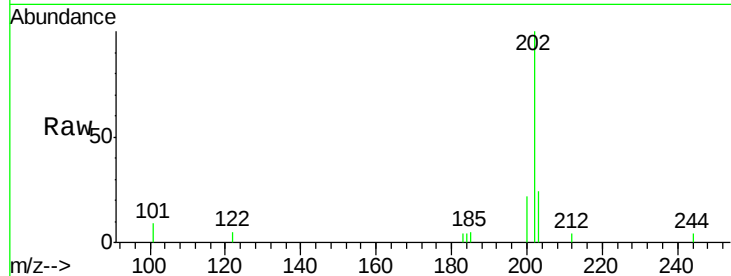
#23
Pyrene
Concen: 0.04 ng
RT: 19.64 min Scan# 1109
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Instrument :
BNA_M
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	19.4	13.9	20.9

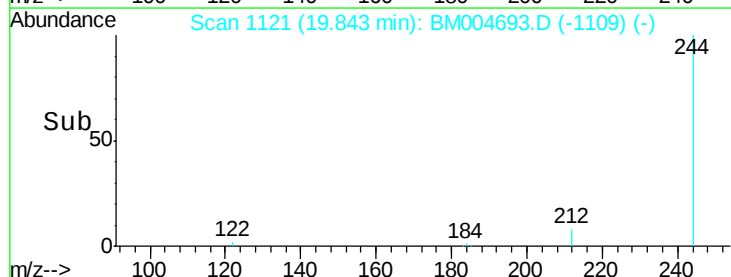
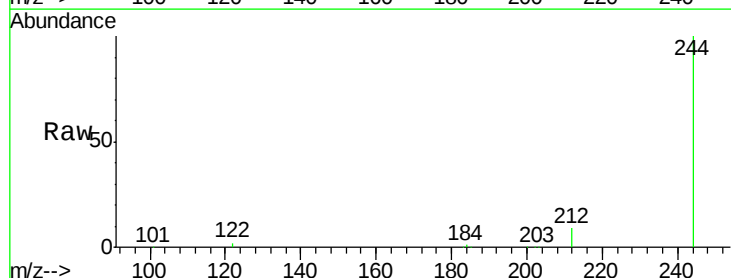
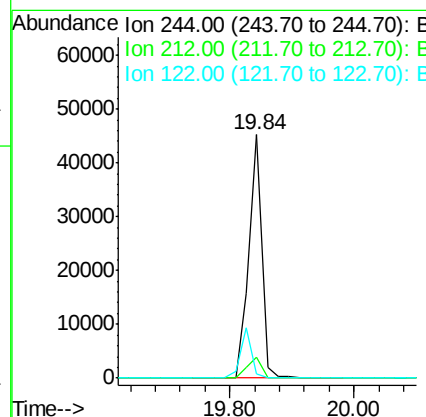
Manual Integrations
APPROVED

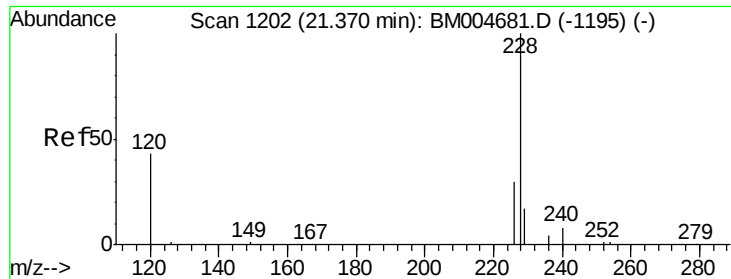
mohammad
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#24
Terphenyl-d14
Concen: 3.95 ng
RT: 19.84 min Scan# 1121
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.7	11.5
122	2.0	3.4	5.0





#25

Benzo(a)anthracene

Concen: 0.04 ng m

RT: 21.37 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BM004693.D

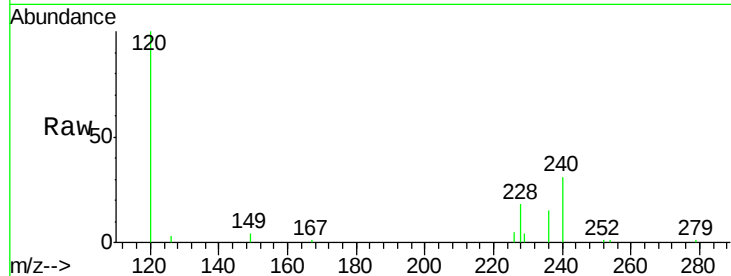
Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

ClientSampleId :

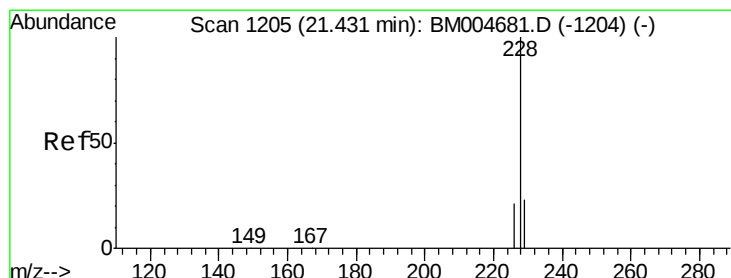
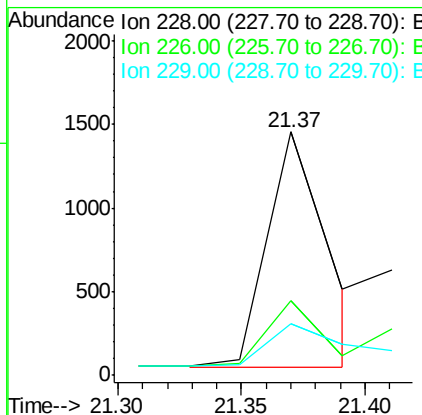
MDL-04-W



Tgt Ion:	228	Resp:	2353
Ion Ratio	Lower	Upper	
228	100		
226	30.6	24.2	36.2
229	21.0	14.2	21.2

Manual Integrations
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#26

Chrysene

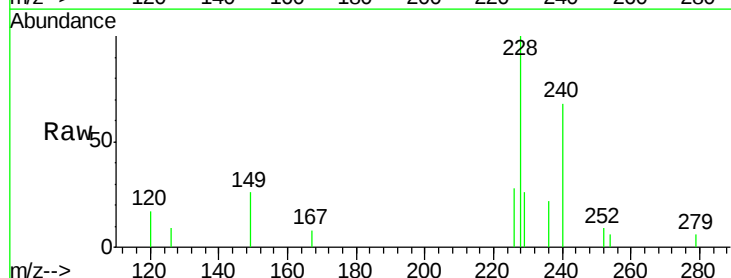
Concen: 0.05 ng m

RT: 21.43 min Scan# 1205

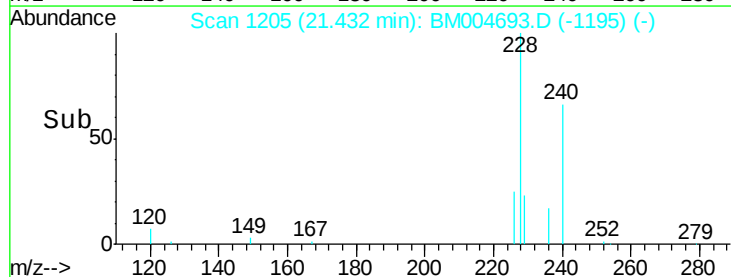
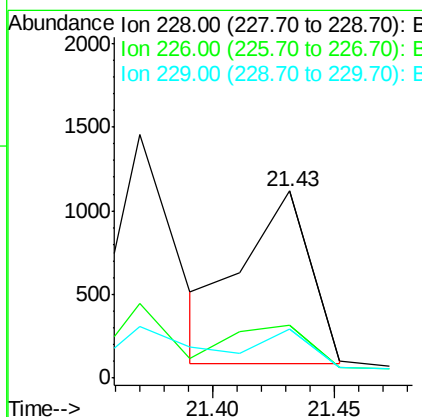
Delta R.T. 0.00 min

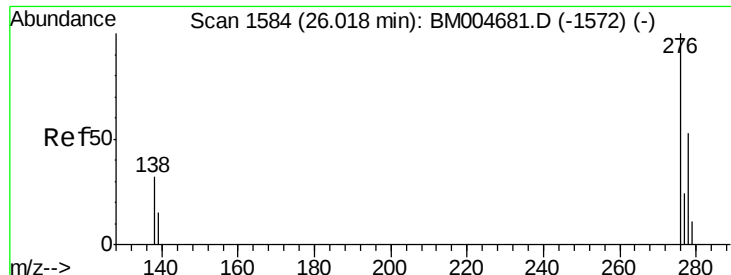
Lab File: BM004693.D

Acq: 18 Mar 2016 22:34



Tgt Ion:	228	Resp:	1965
Ion Ratio	Lower	Upper	
228	100		
226	28.5	20.9	31.3
229	26.3	17.4	26.2





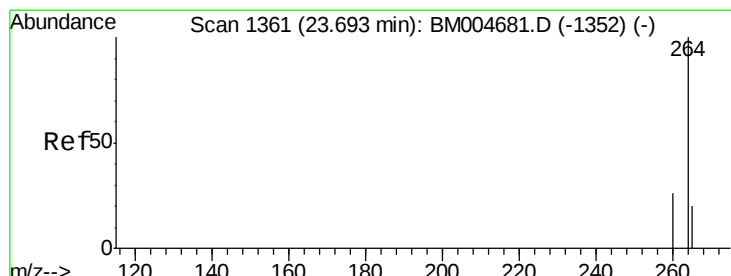
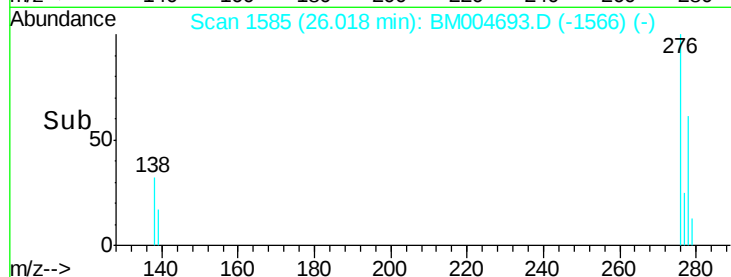
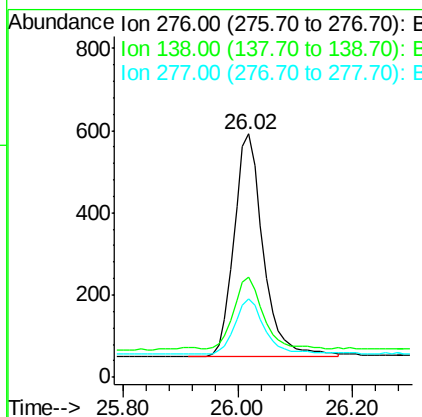
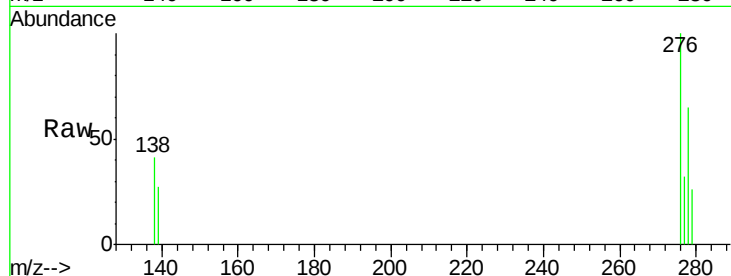
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.02 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Instrument :
BNA_M
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.3	25.9	38.9
277	25.0	19.8	29.6

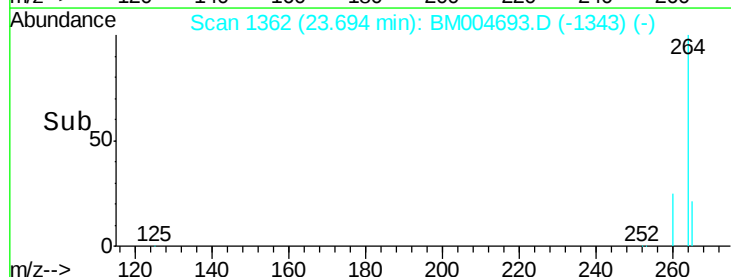
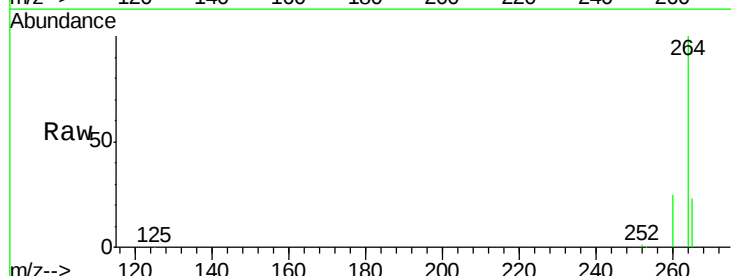
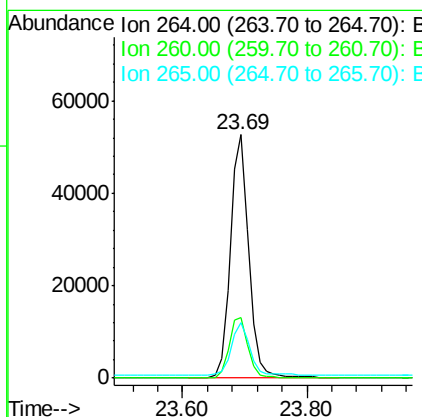
Manual Integrations
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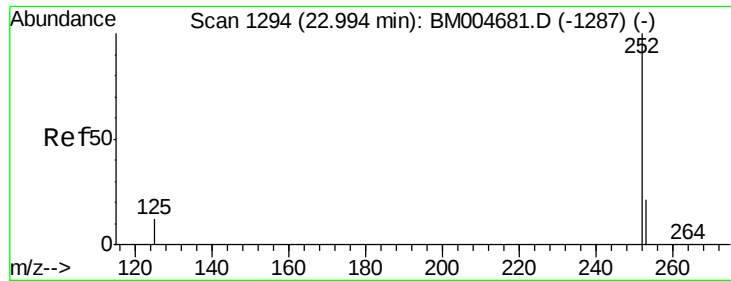
mohammad
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.69 min Scan# 1362
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	21.0	31.4
265	22.8	17.5	26.3





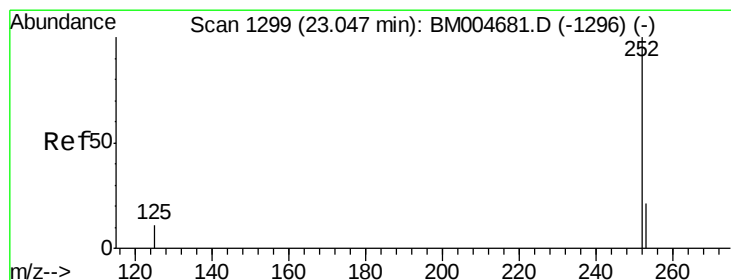
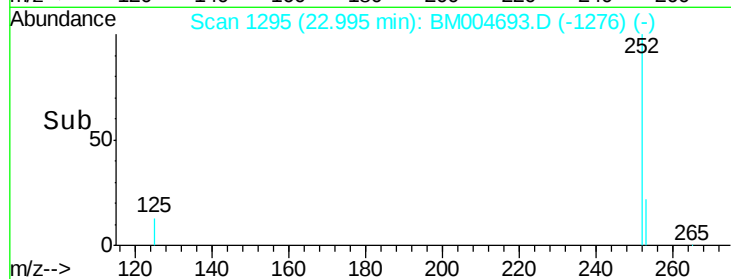
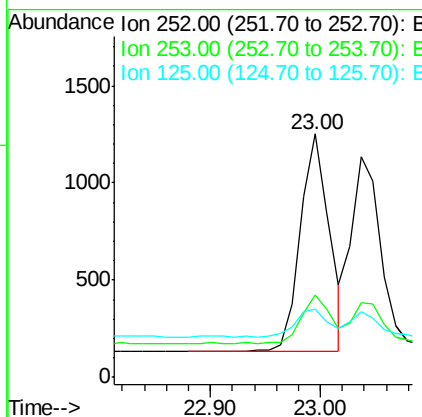
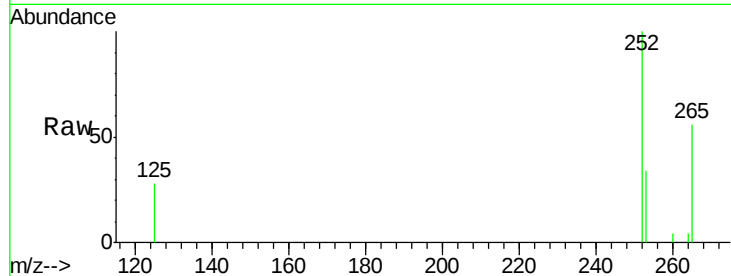
#29
Benzo(b)fluoranthene
Concen: 0.05 ng
RT: 23.00 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Instrument :
BNA_M
ClientSampleId :
MDL-04-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.7	17.9	26.9#
125	28.2	11.4	17.0#

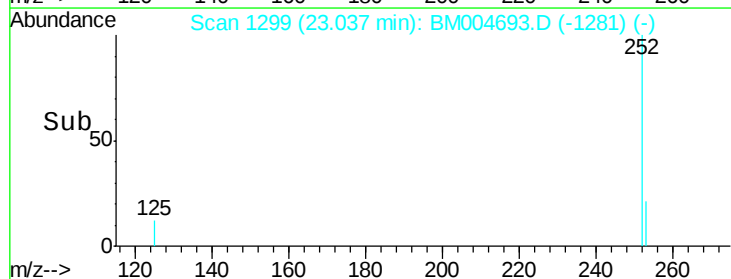
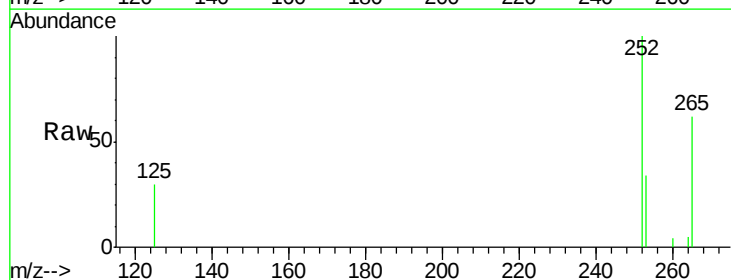
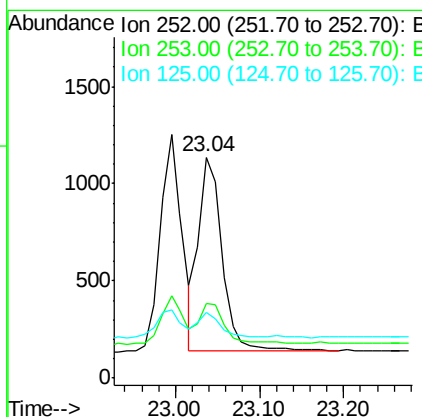
Manual Integrations
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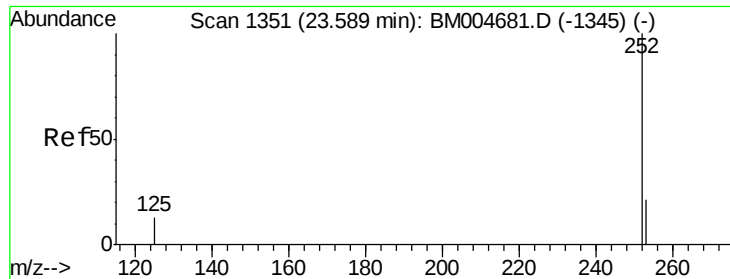
mohammad
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#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.04 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BM004693.D
Acq: 18 Mar 2016 22:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.8	19.3	28.9#
125	29.5	10.6	15.8#





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.59 min Scan# 1352

Delta R.T. 0.00 min

Lab File: BM004693.D

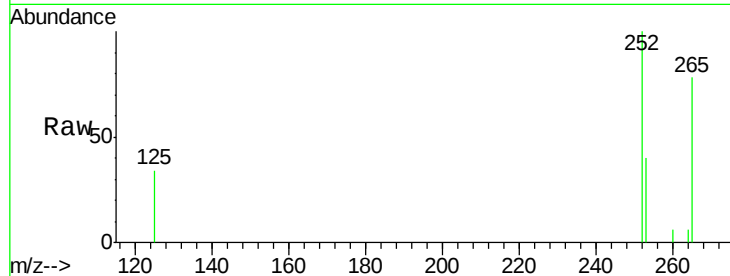
Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

ClientSampleId :

MDL-04-W



Tgt Ion: 252 Resp: 1728

Ion Ratio Lower Upper

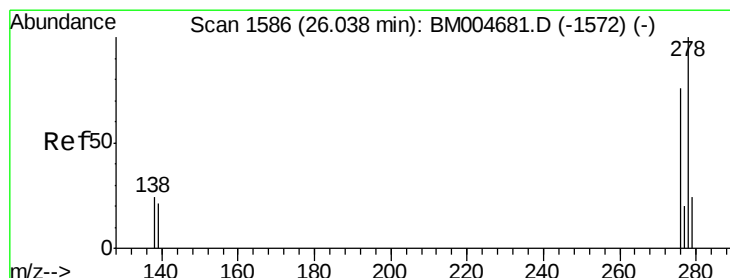
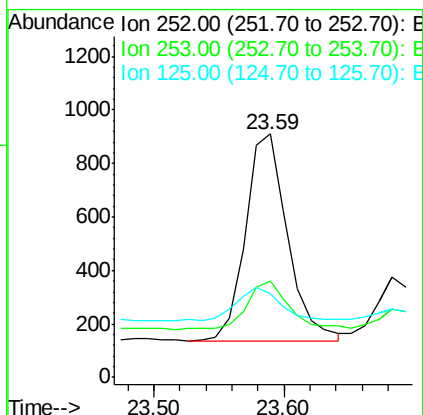
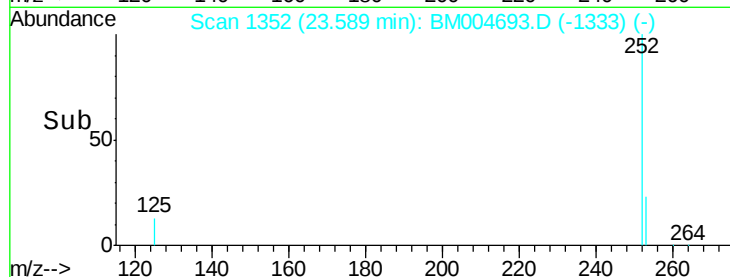
252 100

253 39.5 18.6 28.0#

125 34.1 12.3 18.5#

Manual Integrations
APPROVED

mohammad
3/21/2016 2:46:38 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.05 ng

RT: 26.03 min Scan# 1586

Delta R.T. -0.01 min

Lab File: BM004693.D

Acq: 18 Mar 2016 22:34

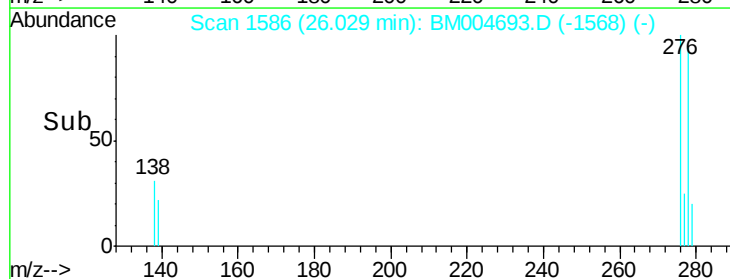
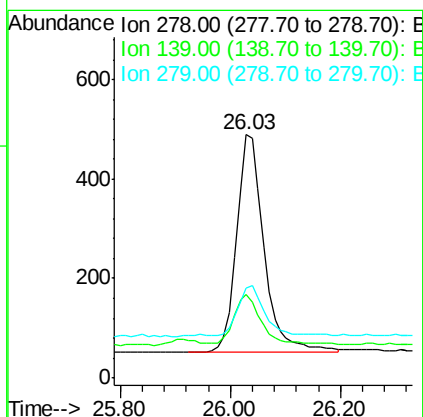
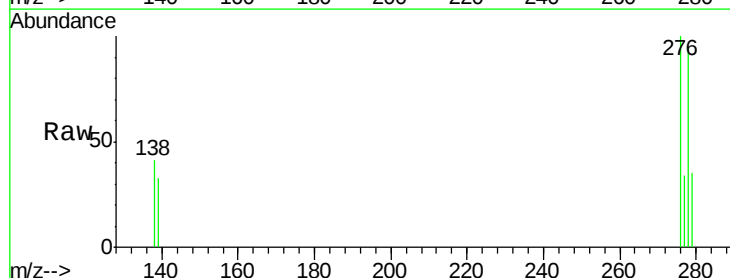
Tgt Ion: 278 Resp: 1508

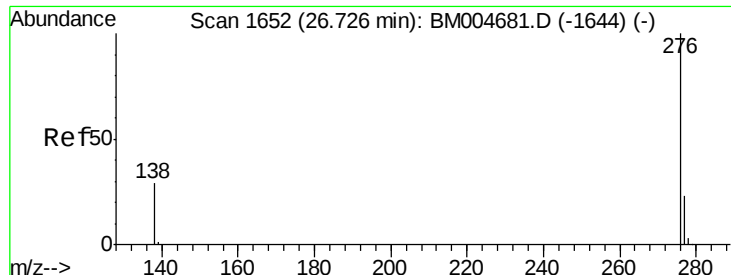
Ion Ratio Lower Upper

278 100

139 34.4 17.6 26.4#

279 36.8 19.9 29.9#





#33

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 26.73 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BM004693.D

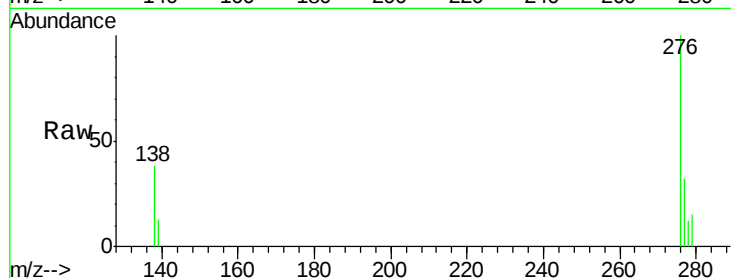
Acq: 18 Mar 2016 22:34

Instrument :

BNA_M

ClientSampleId :

MDL-04-W



Tgt Ion: 276 Resp: 1757

Ion Ratio Lower Upper

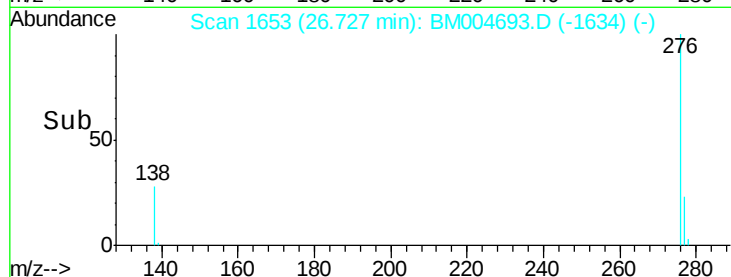
276 100

277 31.6 19.1 28.7#

138 37.6 24.5 36.7#

Manual Integrations
APPROVED

mohammad
3/21/2016 2:46:38 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

