

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
 Data File : BM004681.D
 Acq On : 18 Mar 2016 14:06
 Operator : UM/SJ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICCC0.4

Manual Integrations
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 3/21/2016 2:42:52 PM

Quant Time: Mar 19 02:12:59 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 01:55:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	29452	5.00	ng	0.00
6) Naphthalene-d8	10.63	136	120078	5.00	ng	0.00
10) Acenaphthene-d10	14.46	164	65827	5.00	ng	0.00
16) Phenanthrene-d10	17.22	188	121711	5.00	ng	0.00
22) Chrysene-d12	21.39	240	136357	5.00	ng	0.00
28) Perylene-d12	23.69	264	121907	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.42	112	3194	0.47	ng	0.00
5) Phenol-d6	6.98	99	3820	0.46	ng	0.00
7) Nitrobenzene-d5	8.99	82	2649	0.46	ng	0.00
11) 2,4,6-Tribromophenol	15.95	330	989m	0.46	ng	0.00
12) 2-Fluorobiphenyl	13.09	172	8959	0.48	ng	0.00
24) Terphenyl-d14	19.84	244	7831	0.45	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	1422	0.49	ng	100
3) n-Nitrosodimethylamine	3.66	42	1430	0.47	ng	100
8) Naphthalene	10.66	128	15359	0.47	ng	100
9) 2-Methylnaphthalene	12.29	142	9747	0.47	ng	100
13) Acenaphthylene	14.17	152	15242	0.45	ng	100
14) Acenaphthene	14.53	154	10509	0.47	ng	100
15) Fluorene	15.53	166	11655	0.46	ng	# 100
17) Hexachlorobenzene	16.53	284	3572	0.48	ng	# 100
18) Pentachlorophenol	16.86	266	1748	0.43	ng	100
19) Phenanthrene	17.24	178	23032	0.47	ng	100
20) Anthracene	17.34	178	16040	0.46	ng	100
21) Fluoranthene	19.28	202	21380	0.46	ng	100
23) Pyrene	19.64	202	22799	0.46	ng	100
25) Benzo(a)anthracene	21.37	228	25418	0.47	ng	100
26) Chrysene	21.43	228	17882	0.44	ng	100
27) Indeno(1,2,3-cd)pyrene	26.02	276	21055	0.46	ng	100
29) Benzo(b)fluoranthene	22.99	252	19933	0.45	ng	100
30) Benzo(k)fluoranthene	23.05	252	20202	0.46	ng	100
31) Benzo(a)pyrene	23.59	252	18863	0.45	ng	100
32) Dibenzo(a,h)anthracene	26.04	278	16827	0.45	ng	100
33) Benzo(g,h,i)perylene	26.73	276	17871	0.39	ng	100

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

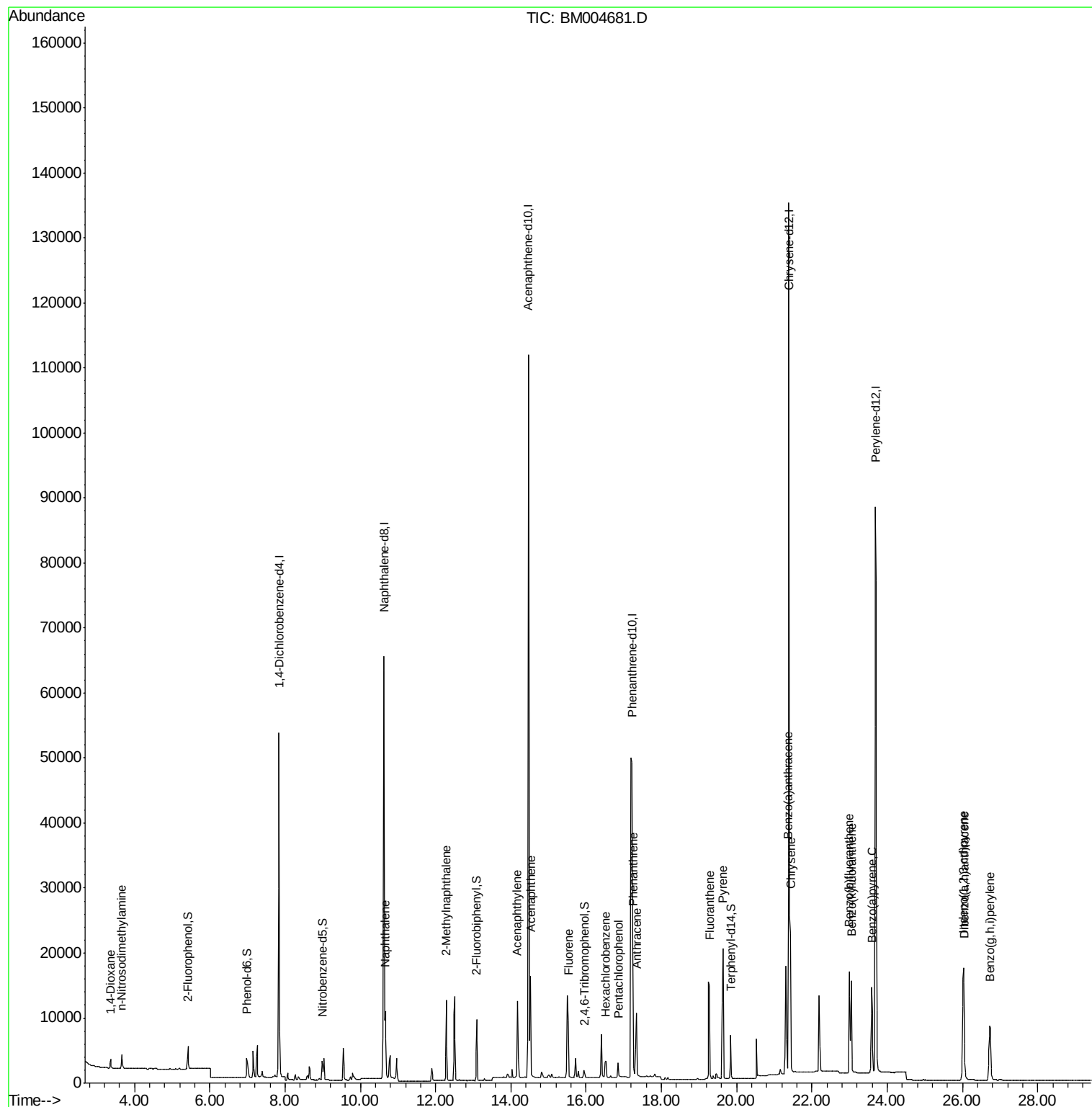
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM031816\
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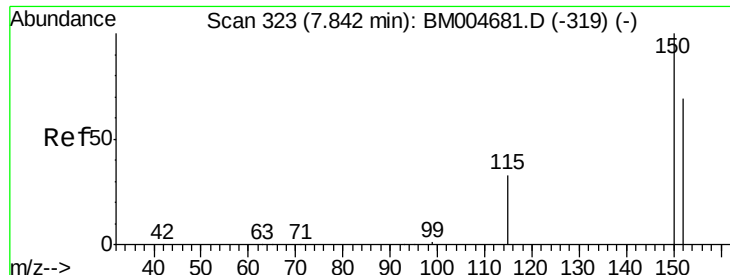
Instrument :
BNA_M
ClientSampleId :
SSTDICCC0.4

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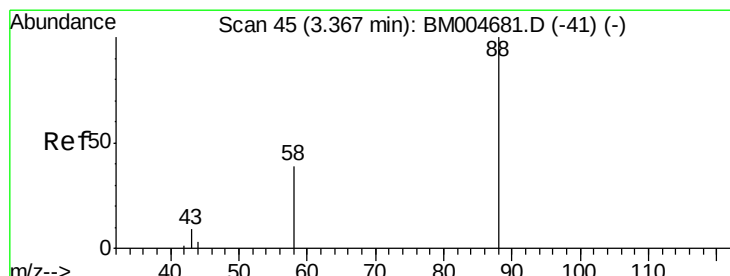
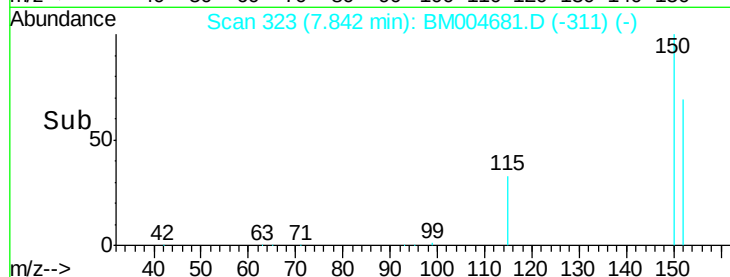
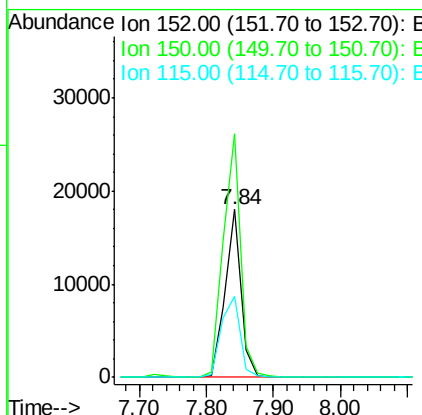
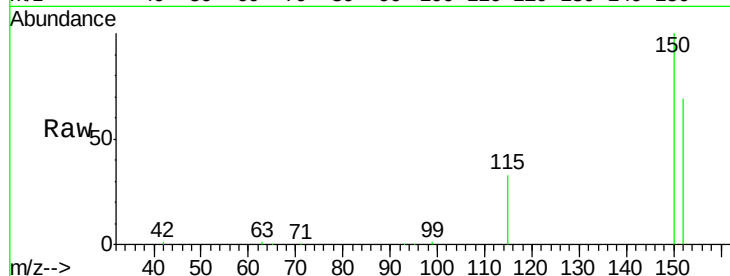
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 7.84 min Scan# 323
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.4

Tgt Ion	Ratio	Lower	Upper
152	100		
150	144.9	115.9	173.9
115	48.0	38.4	57.6

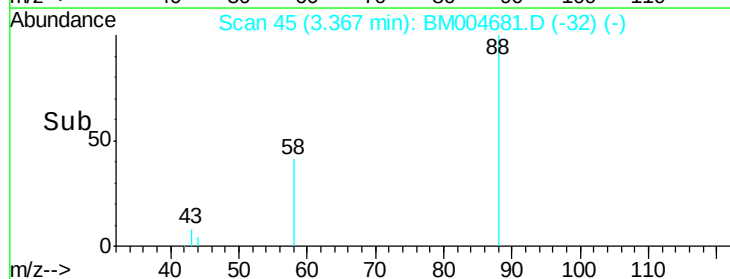
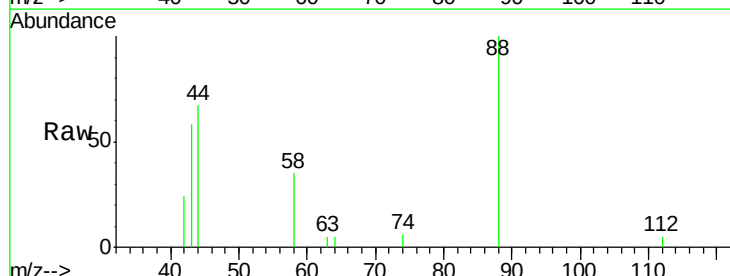
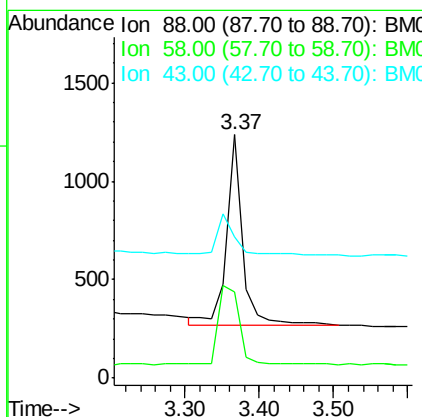
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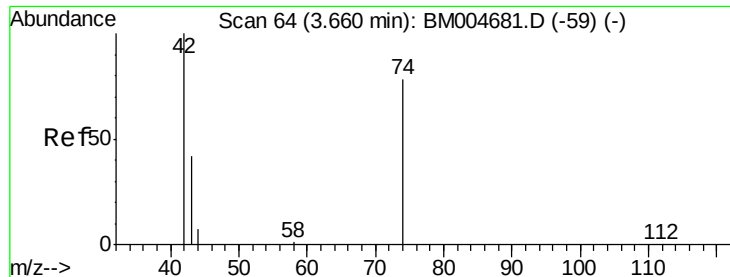
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#2
 1,4-Dioxane
 Concen: 0.49 ng
 RT: 3.37 min Scan# 45
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
88	100		
58	54.9	43.9	65.9
43	24.9	19.9	29.9





#3

n-Nitrosodimethylamine

Concen: 0.47 ng

RT: 3.66 min Scan# 64

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

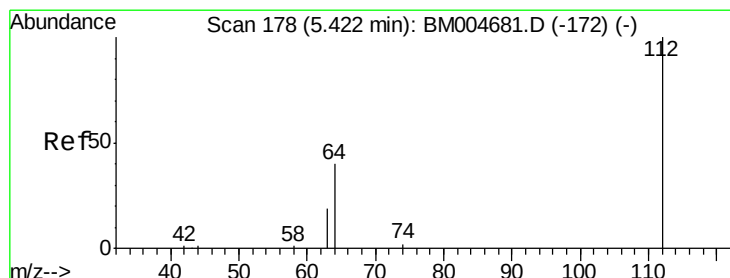
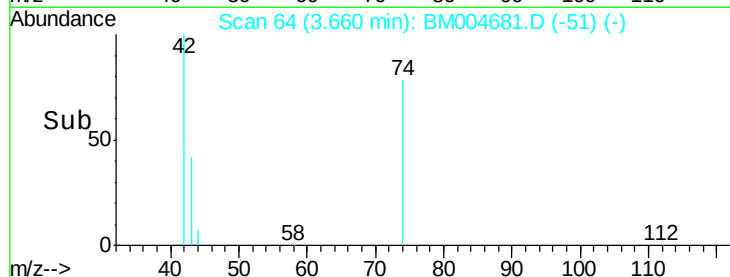
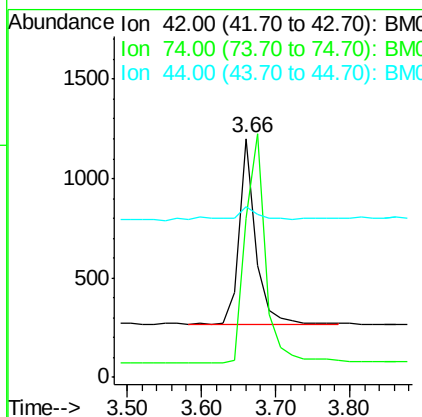
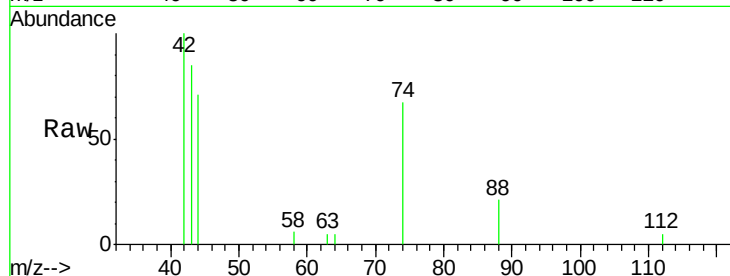
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	42	Resp:	1430
Ion	Ratio	Lower	Upper
42	100		
74	151.1	120.9	181.3
44	7.5	6.0	9.0

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#4

2-Fluorophenol

Concen: 0.47 ng

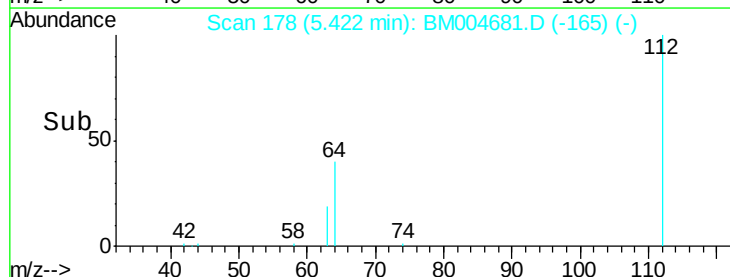
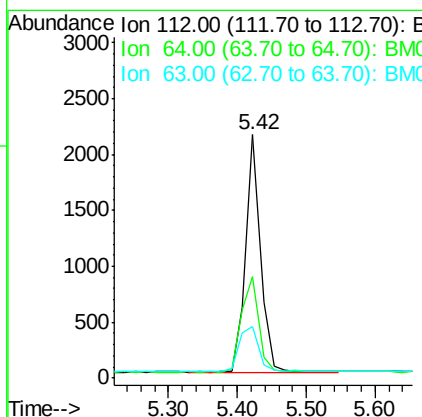
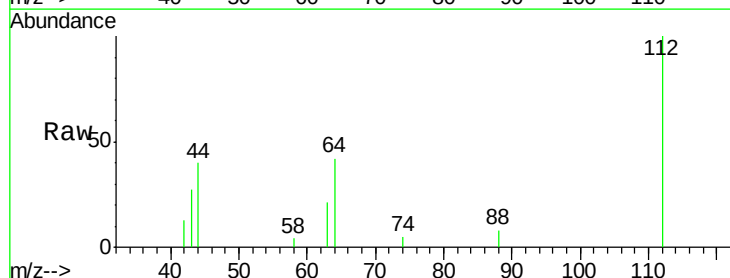
RT: 5.42 min Scan# 178

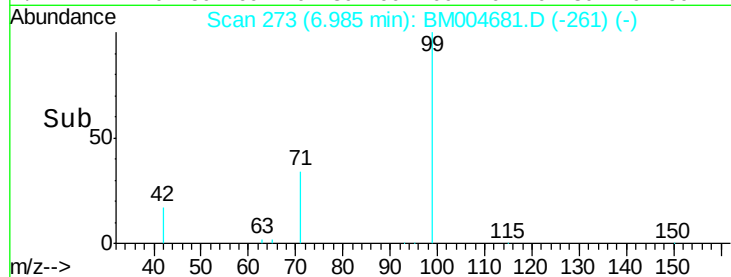
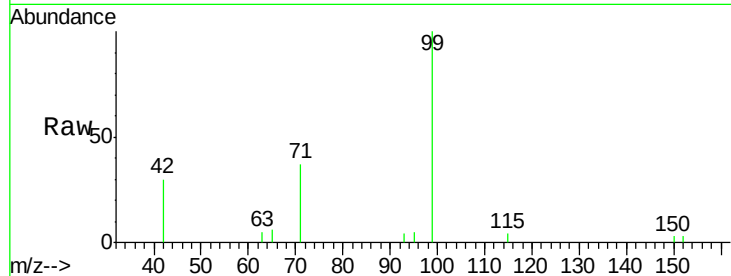
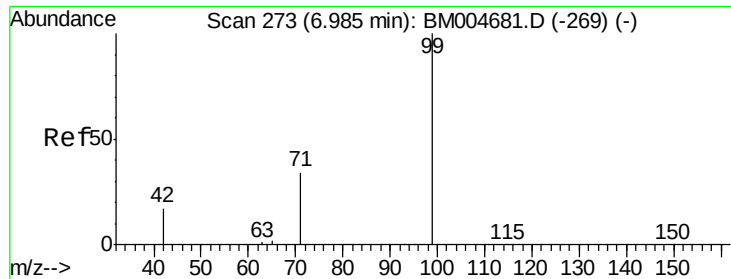
Delta R.T. 0.00 min

Lab File: BM004681.D

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Tgt Ion:	112	Resp:	3194
Ion	Ratio	Lower	Upper
112	100		
64	46.3	37.0	55.6
63	24.1	19.3	28.9





#5

Phenol-d6

Concen: 0.46 ng

RT: 6.98 min Scan# 273

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	99	Resp:	3820
Ion	Ratio	Lower	Upper
99	100		
42	15.9	12.7	19.1
71	28.6	22.9	34.3

Instrument :

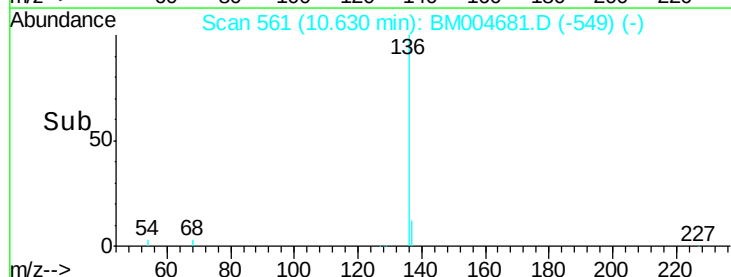
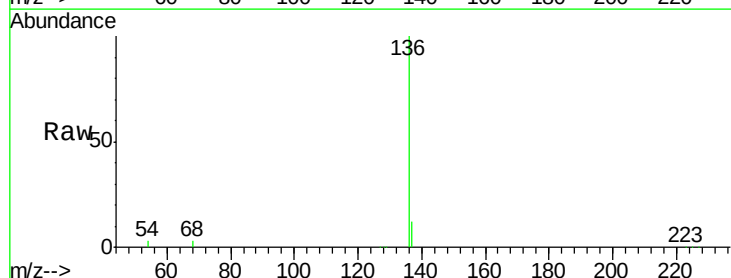
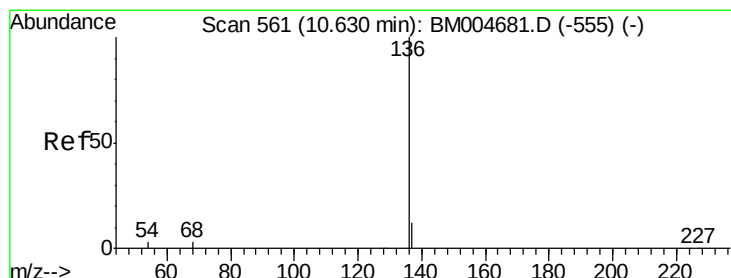
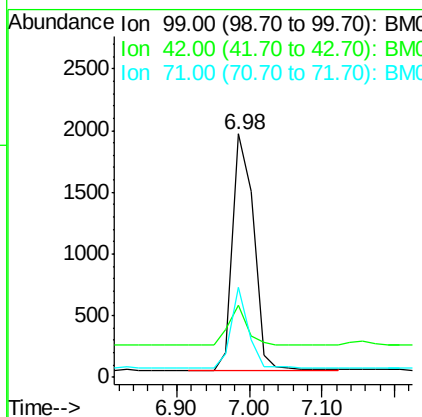
BNA_M

ClientSampleId :

SSTDICCC0.4

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#6

Naphthalene-d8

Concen: 5.00 ng

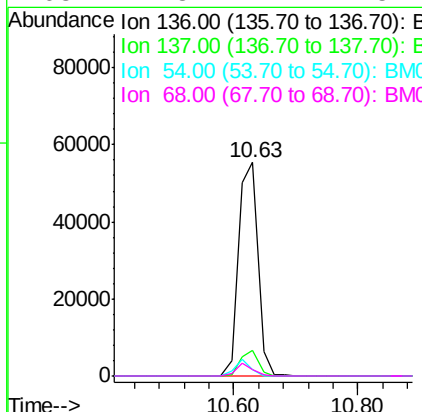
RT: 10.63 min Scan# 561

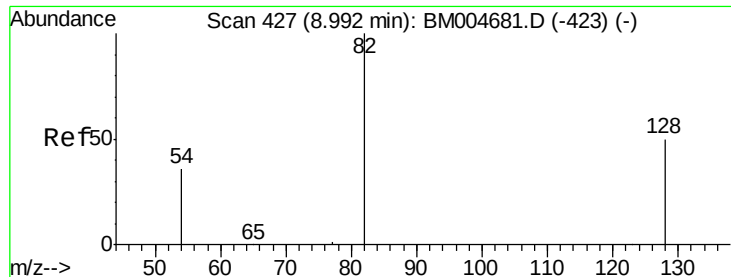
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	136	Resp:	120078
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.4	14.2
54	2.8	2.2	3.4
68	2.8	2.2	3.4





#7

Nitrobenzene-d5

Concen: 0.46 ng

RT: 8.99 min Scan# 427

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

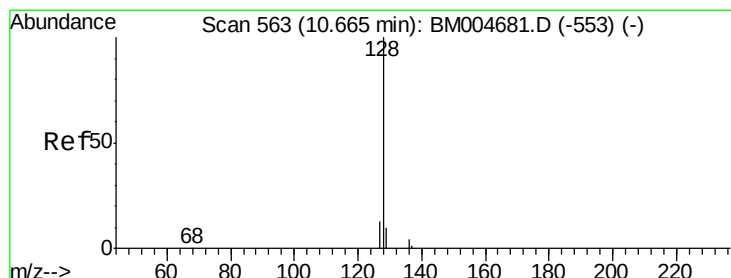
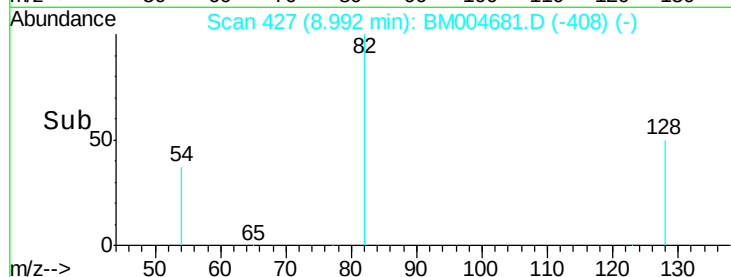
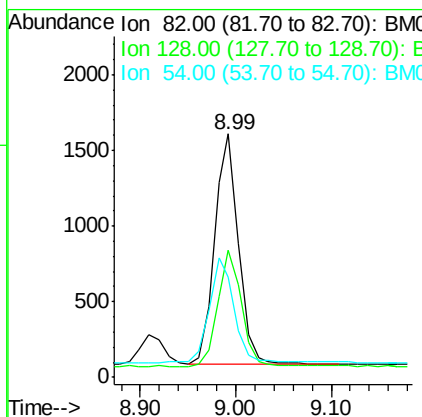
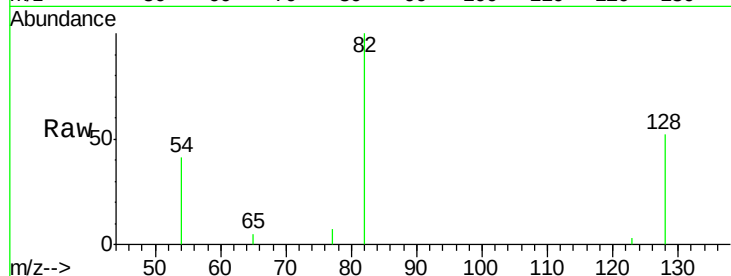
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	82	Resp:	2649
Ion Ratio	Lower	Upper	
82	100		
128	52.3	41.8	62.8
54	41.1	32.9	49.3

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#8

Naphthalene

Concen: 0.47 ng

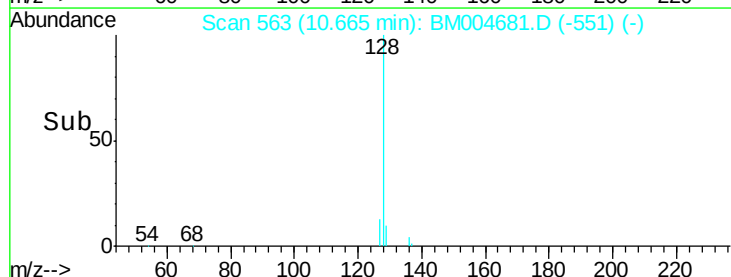
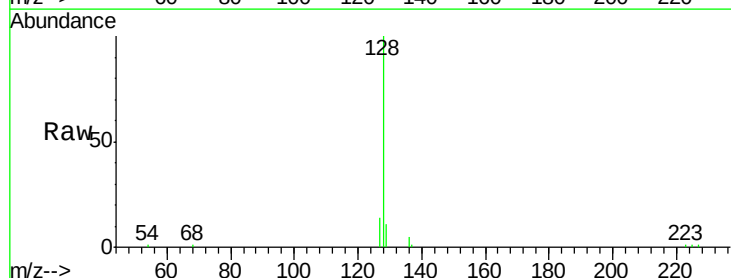
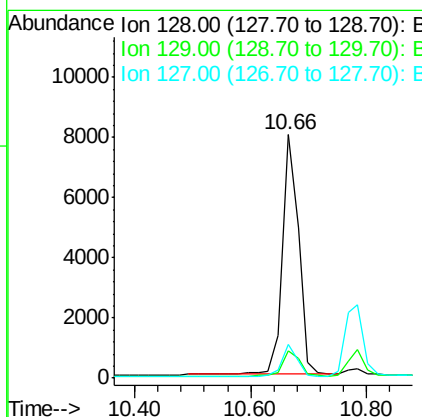
RT: 10.66 min Scan# 563

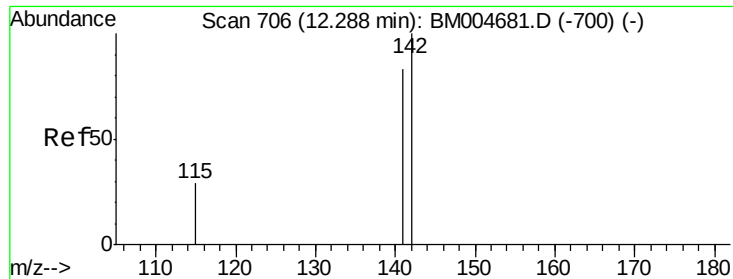
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	128	Resp:	15359
Ion Ratio	Lower	Upper	
128	100		
129	11.1	8.9	13.3
127	14.1	11.3	16.9





#9

2-Methylnaphthalene

Concen: 0.47 ng

RT: 12.29 min Scan# 706

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

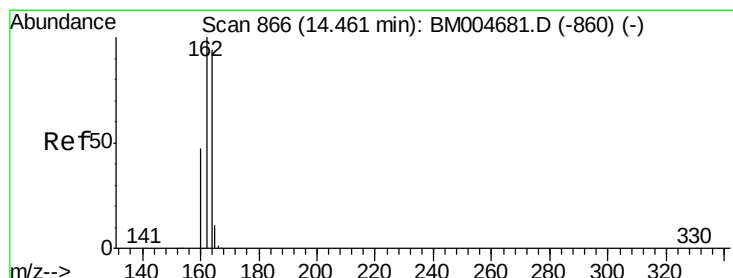
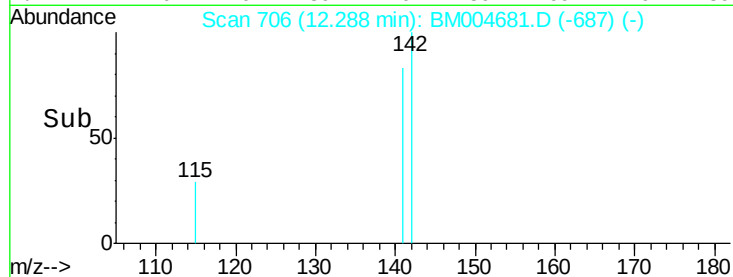
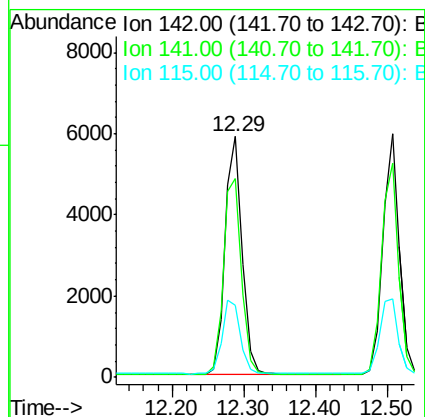
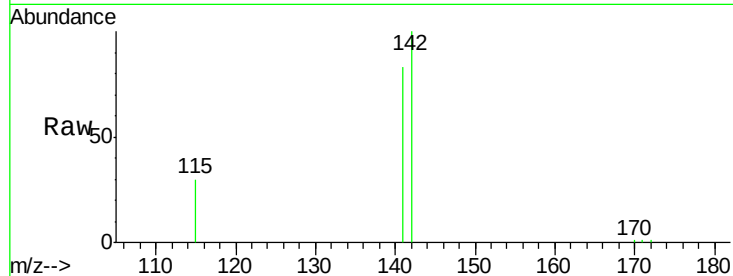
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	142	Resp:	9747
Ion Ratio	Lower	Upper	
142	100		
141	82.7	66.2	99.2
115	29.8	23.8	35.8

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#10

Acenaphthene-d10

Concen: 5.00 ng

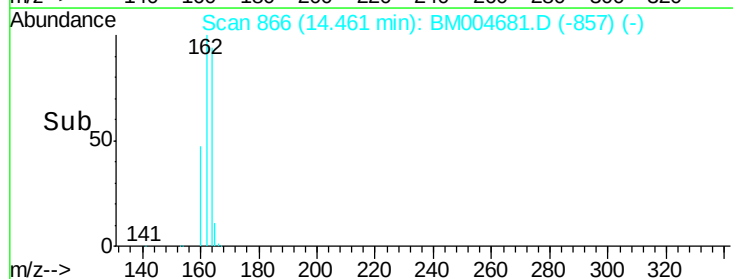
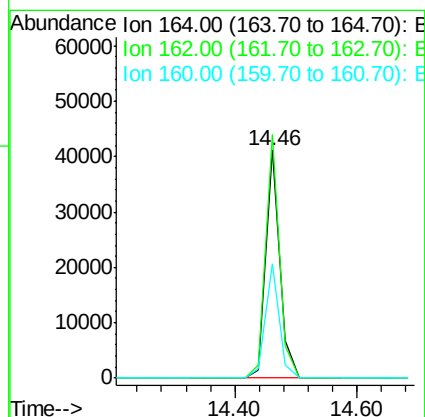
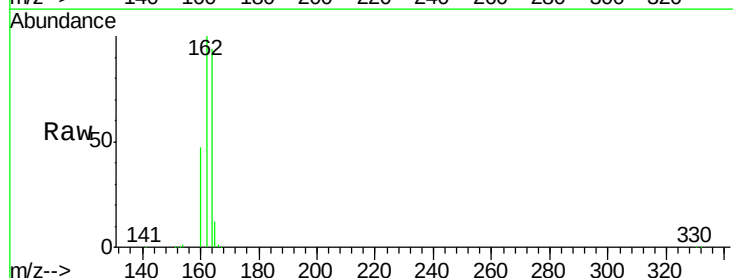
RT: 14.46 min Scan# 866

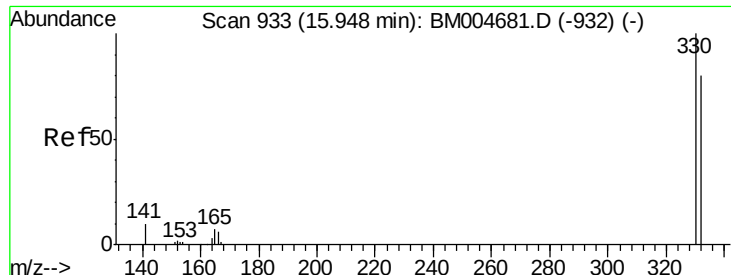
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	164	Resp:	65827
Ion Ratio	Lower	Upper	
164	100		
162	106.7	85.4	128.0
160	50.2	40.2	60.2





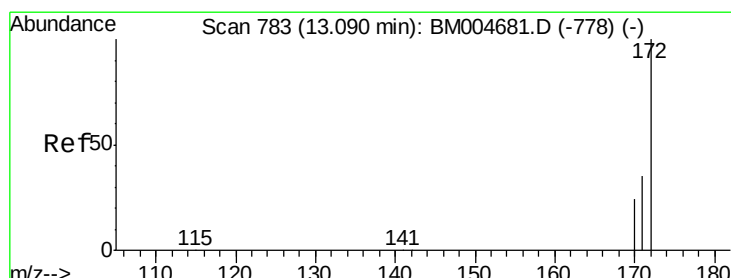
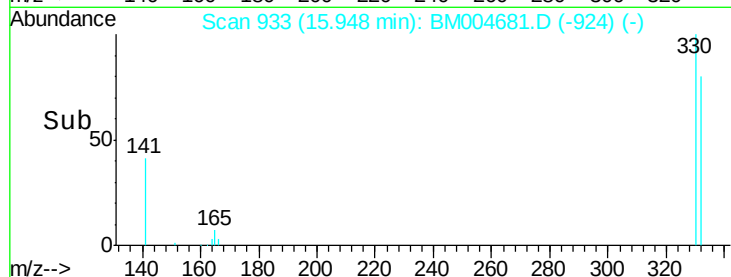
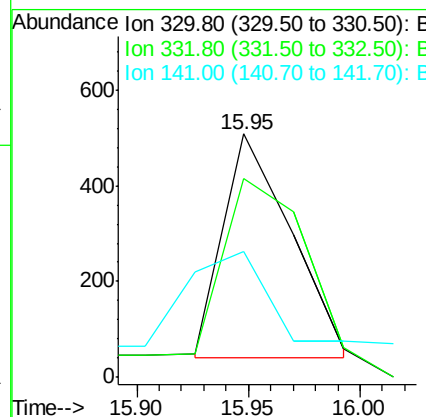
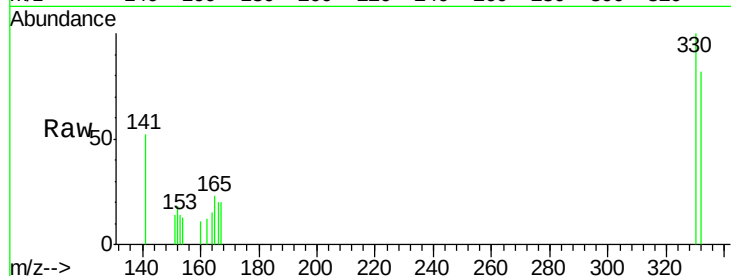
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 2,4,6-Tribromophenol
 Concen: 0.46 ng m
 RT: 15.95 min Scan# 933
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.4

Tgt Ion	Ratio	Lower	Upper
330	100		
332	117.4	93.9	140.9
141	52.7	42.2	63.2

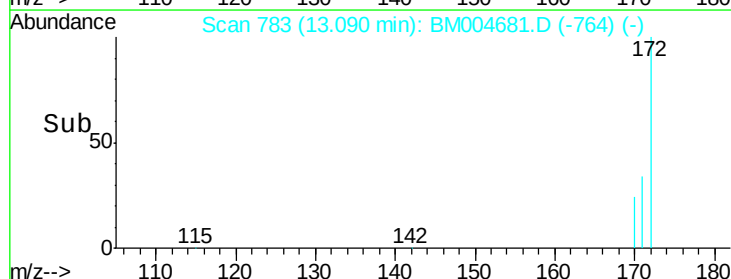
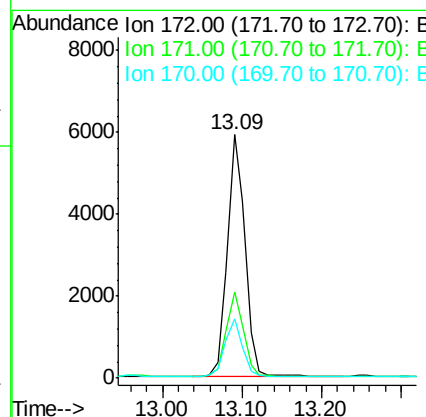
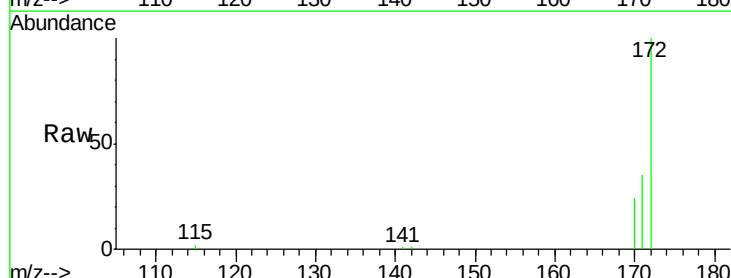
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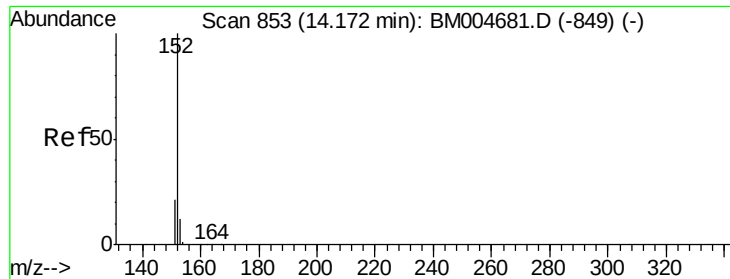
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#12
 2-Fluorobiphenyl
 Concen: 0.48 ng
 RT: 13.09 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.2	42.2
170	24.3	19.4	29.2





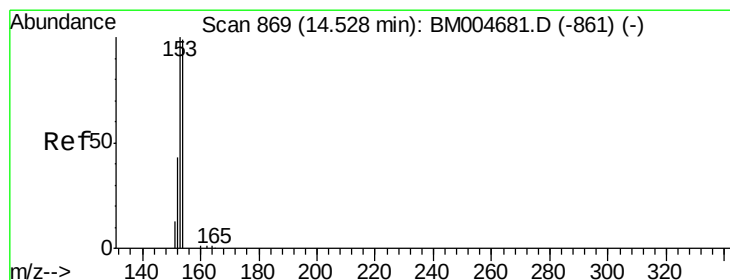
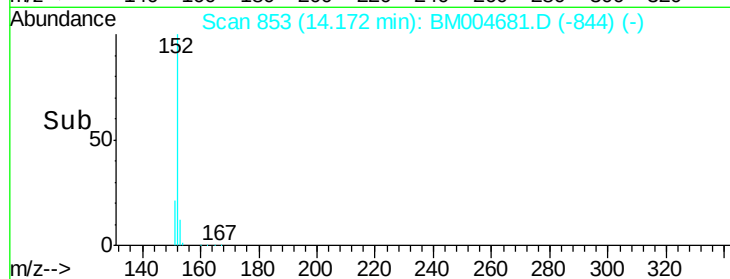
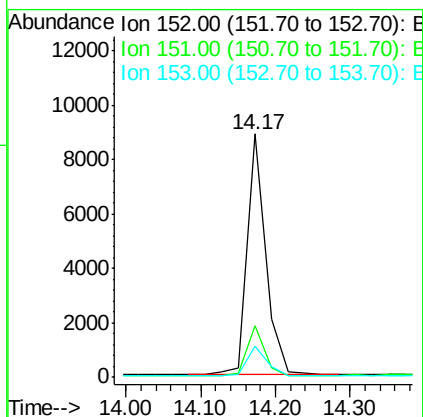
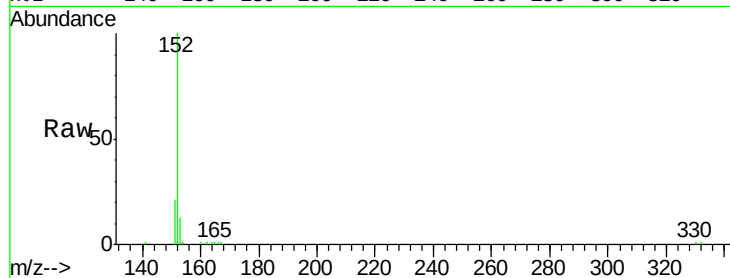
#13
Acenaphthylene
Concen: 0.45 ng
RT: 14.17 min Scan# 853
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Instrument :
BNA_M
ClientSampleId :
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	12.7	10.2	15.2

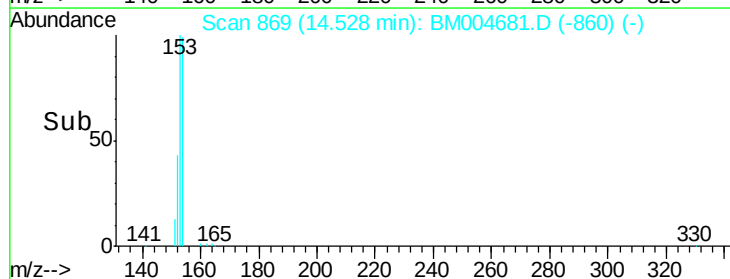
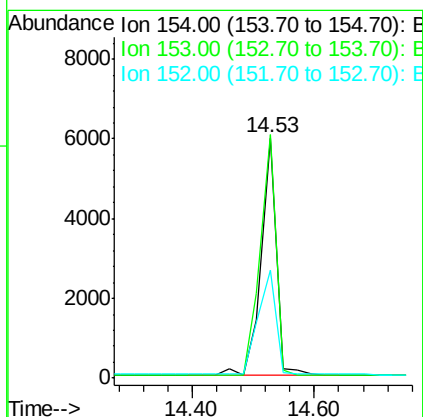
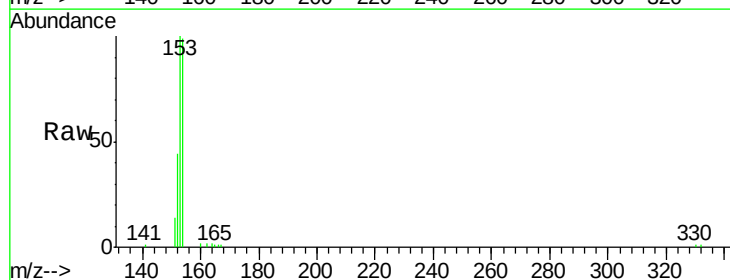
Manual Integrations
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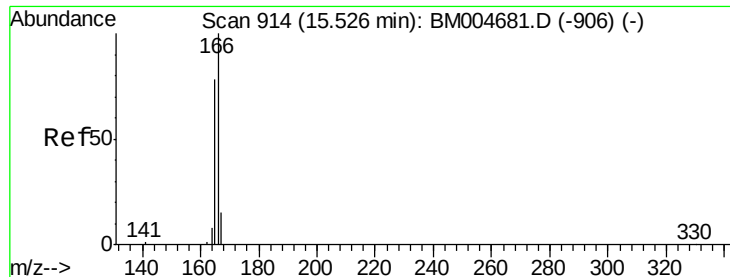
mohammad
3/21/2016 2:42:52 PM



#14
Acenaphthene
Concen: 0.47 ng
RT: 14.53 min Scan# 869
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
154	100		
153	104.8	83.8	125.6
152	50.8	40.3	60.5





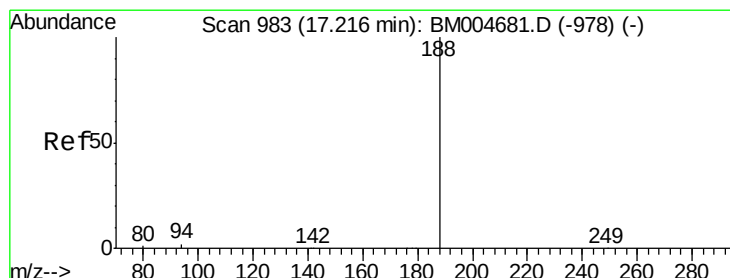
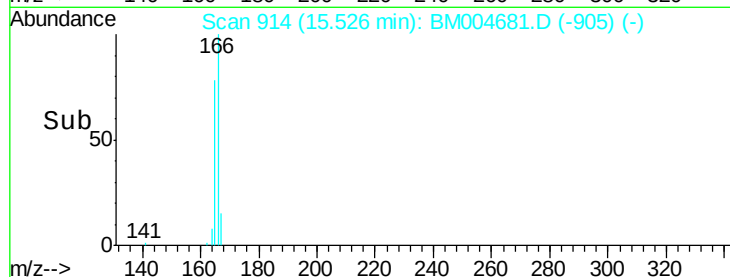
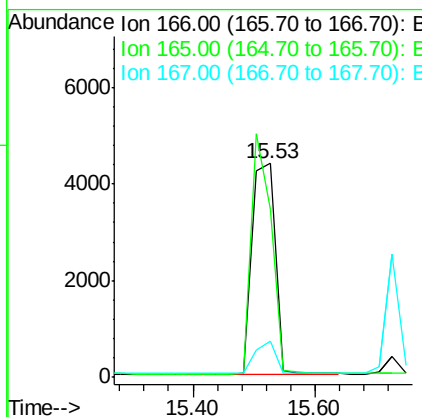
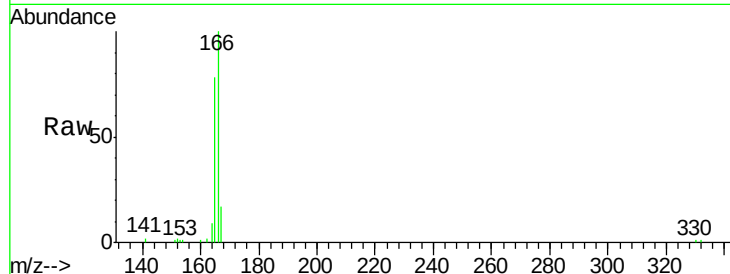
#15
Fluorene
Concen: 0.46 ng
RT: 15.53 min Scan# 914
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Instrument :
BNA_M
ClientSampleId :
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
166	100		
165	0.0	0.0	0.0
167	13.1	10.6	15.8

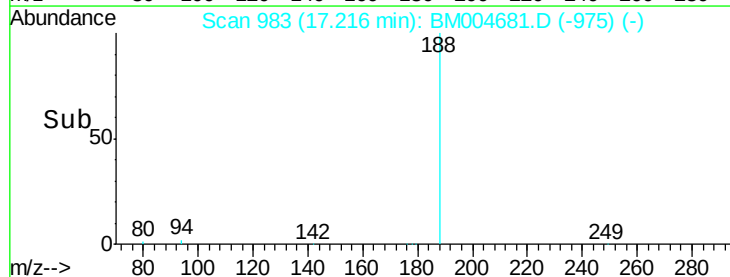
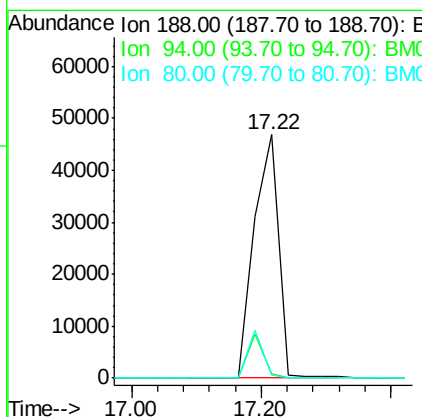
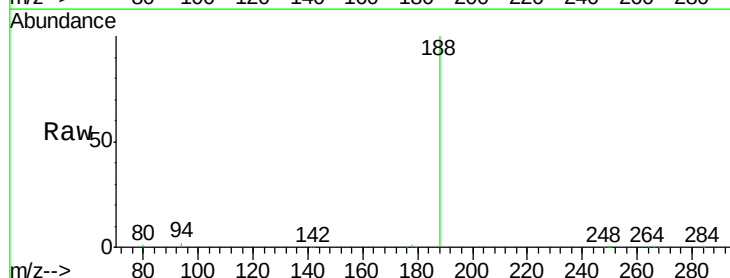
Manual Integrations
APPROVED

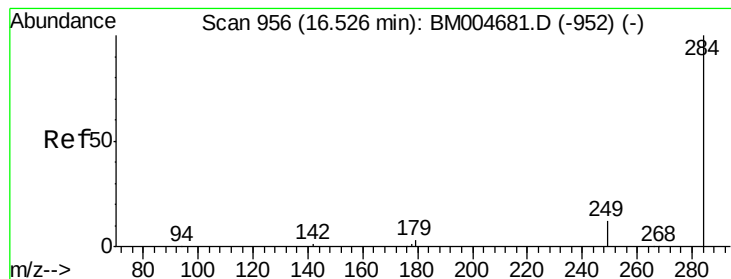
mohammad
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.22 min Scan# 983
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	1.7	1.4	2.0
80	1.3	1.0	1.6





#17

Hexachlorobenzene

Concen: 0.48 ng

RT: 16.53 min Scan# 956

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

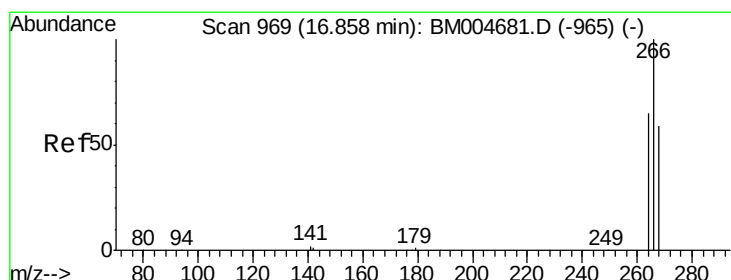
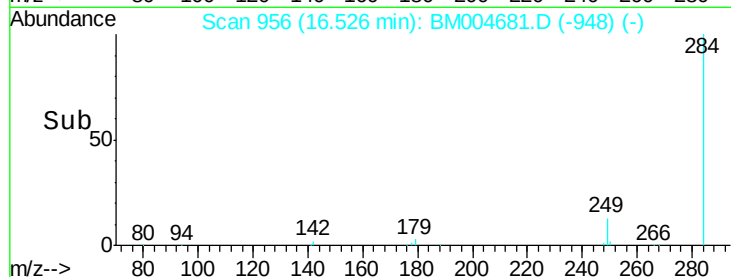
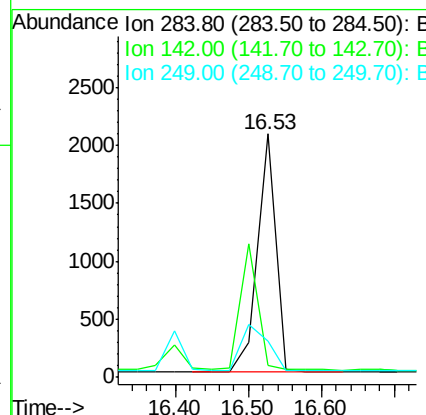
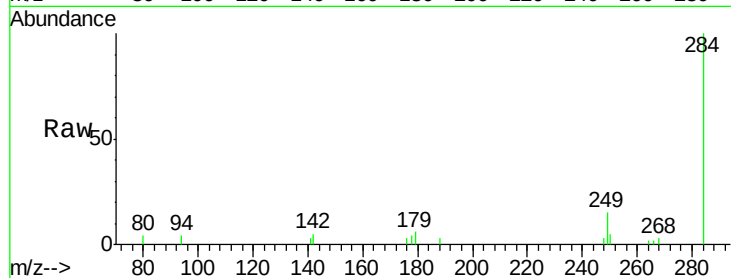
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	284	Resp:	3572
Ion Ratio	Lower	Upper	
284	100		
142	0.0	0.0	0.0
249	0.0	0.0	0.0

Manual Integrations
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#18

Pentachlorophenol

Concen: 0.43 ng

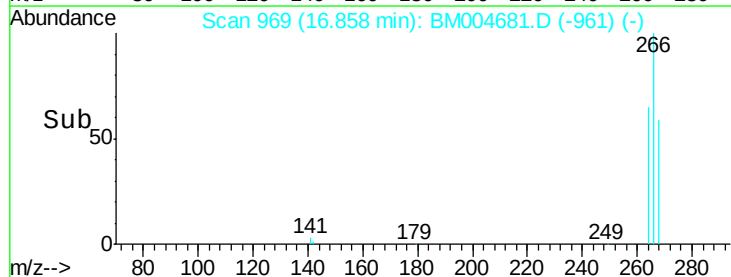
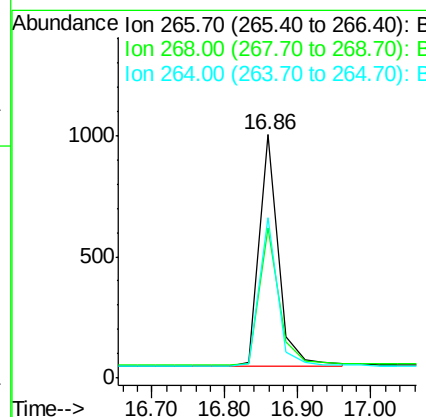
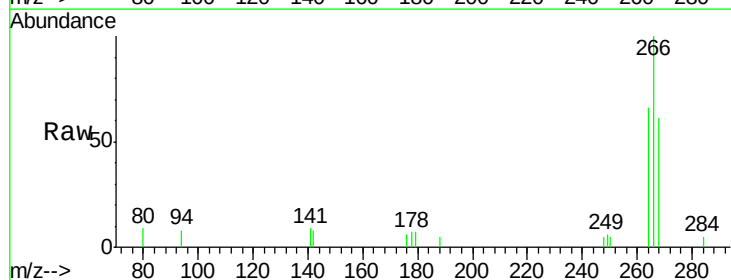
RT: 16.86 min Scan# 969

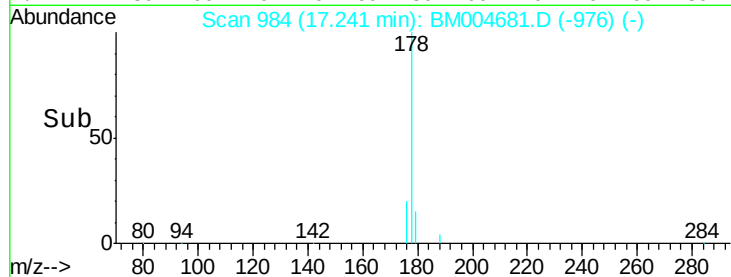
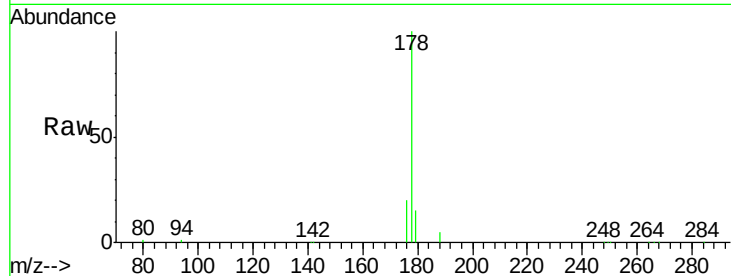
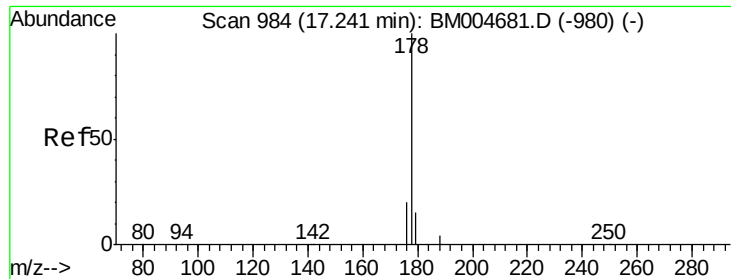
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	266	Resp:	1748
Ion Ratio	Lower	Upper	
266	100		
268	61.4	49.1	73.7
264	66.1	52.9	79.3





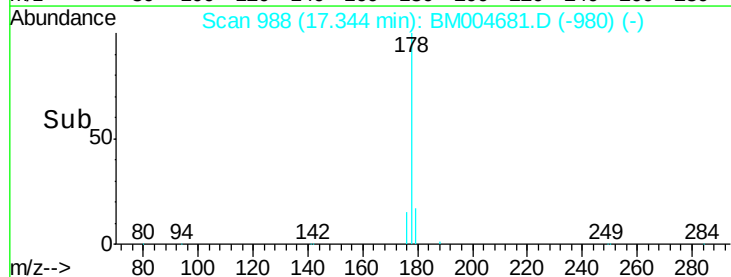
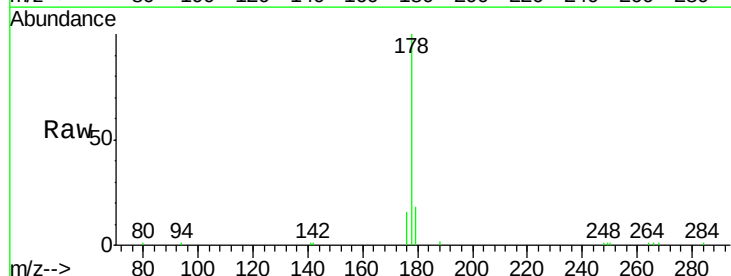
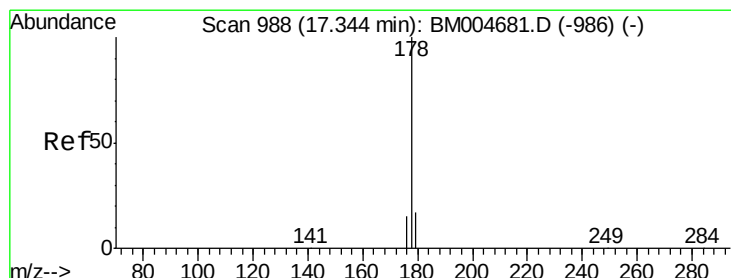
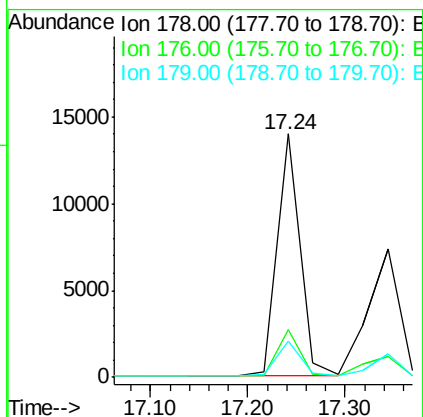
#19
Phenanthrene
Concen: 0.47 ng
RT: 17.24 min Scan# 984
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Tgt Ion:	178	Resp:	23032
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.5	23.3
179	15.3	12.2	18.4

Instrument :
BNA_M
ClientSampleId :
SSTDICCC0.4

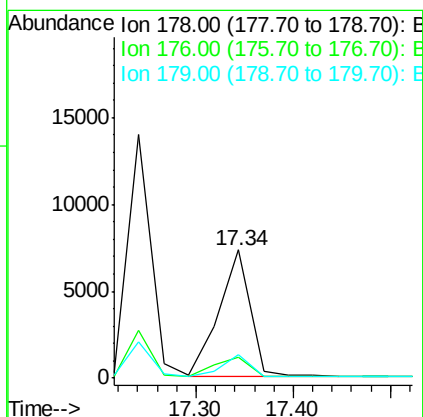
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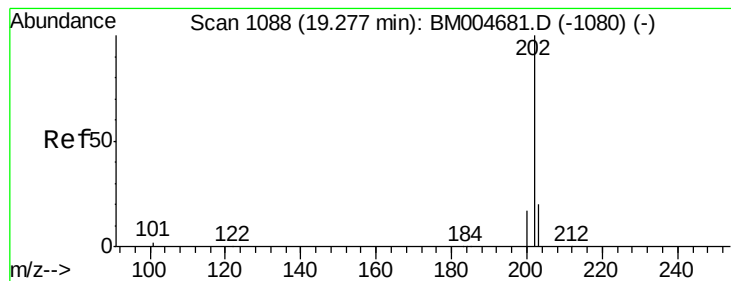
mohammad
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#20
Anthracene
Concen: 0.46 ng
RT: 17.34 min Scan# 988
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Tgt Ion:	178	Resp:	16040
Ion Ratio	Lower	Upper	
178	100		
176	18.1	14.5	21.7
179	15.7	12.6	18.8





#21

Fluoranthene

Concen: 0.46 ng

RT: 19.28 min Scan# 1088

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

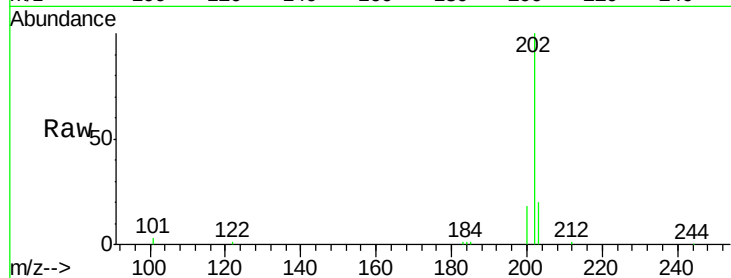
ClientSampleId :

SSTDICCC0.4

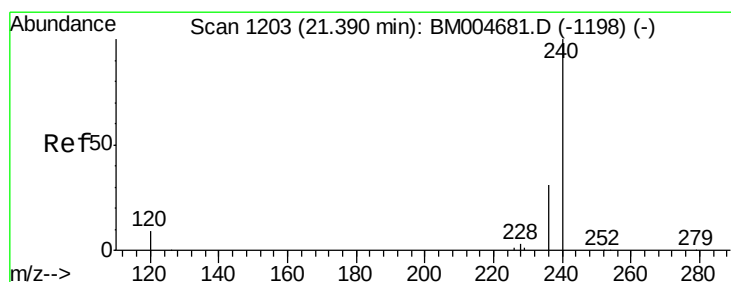
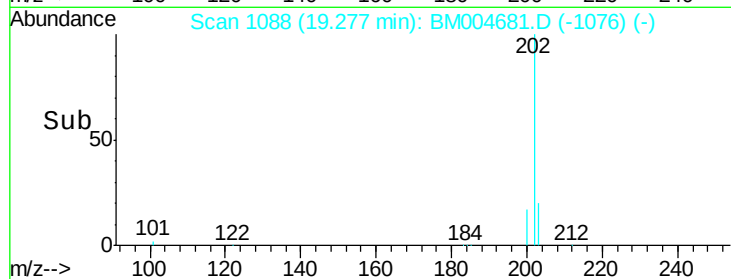
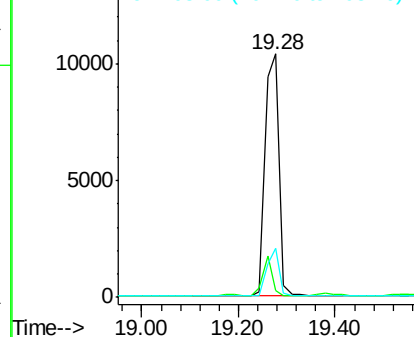
Tgt	Ion	202	Resp:	21380
Ion	Ratio	Lower	Upper	
202	100			
101	10.9	8.7	13.1	
203	17.6	14.1	21.1	

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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

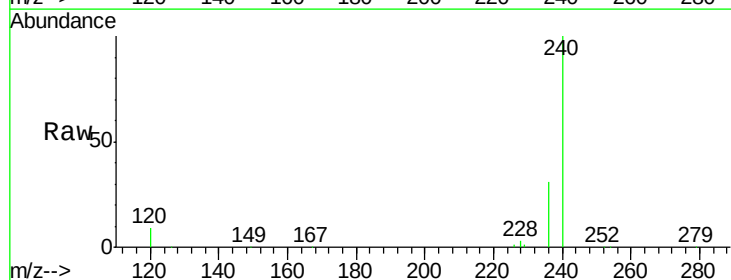
RT: 21.39 min Scan# 1203

Delta R.T. 0.00 min

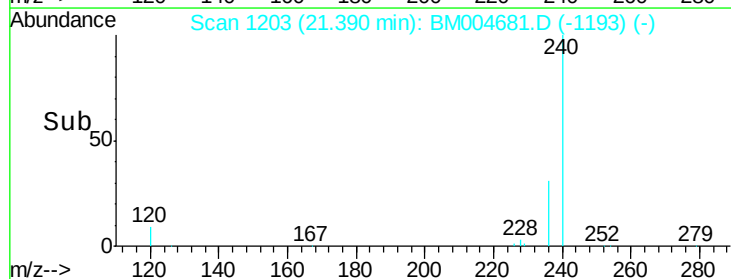
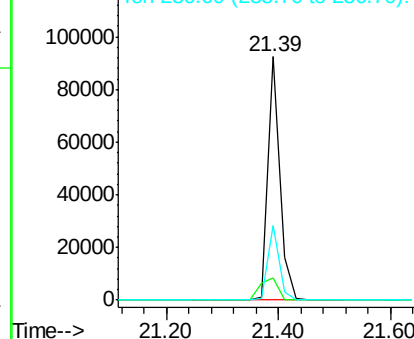
Lab File: BM004681.D

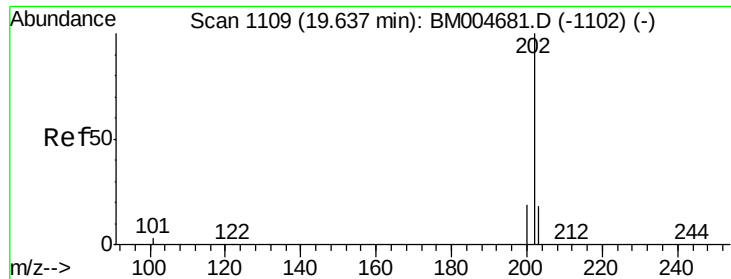
Acq: 18 Mar 2016 14:06

Tgt	Ion	240	Resp:	136357
Ion	Ratio	Lower	Upper	
240	100			
120	9.3	7.4	11.2	
236	30.6	24.5	36.7	



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





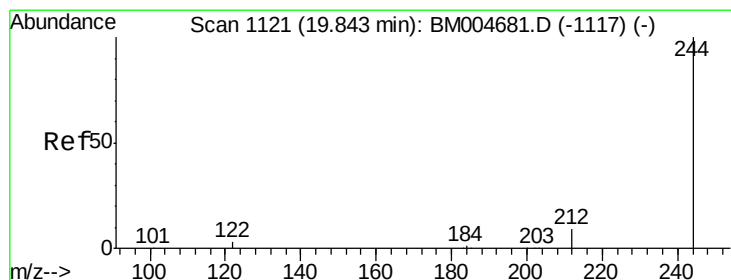
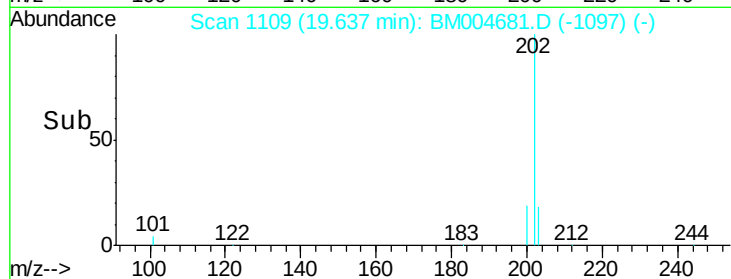
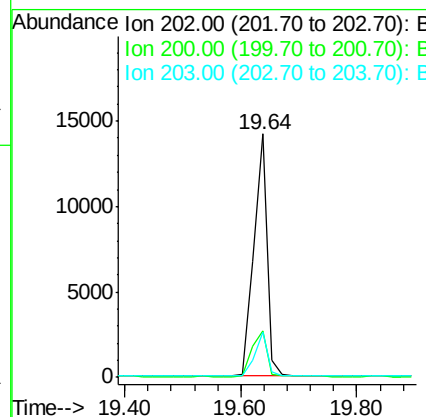
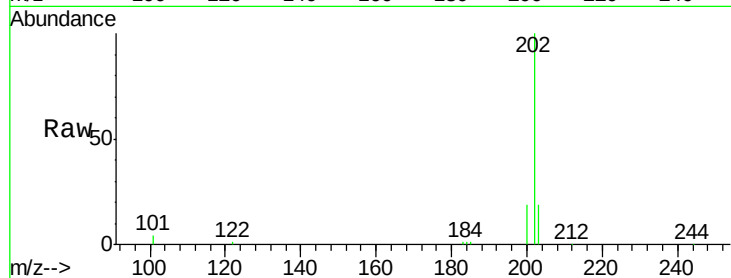
#23
 Pyrene
 Concen: 0.46 ng
 RT: 19.64 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.4

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.4	13.9	20.9

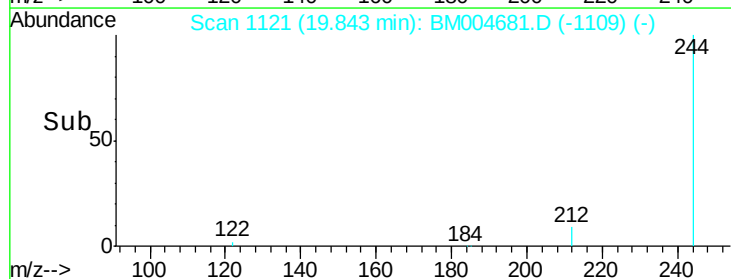
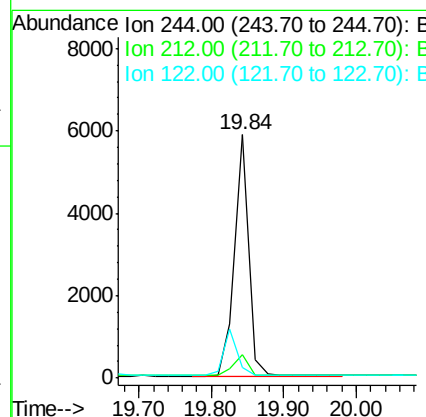
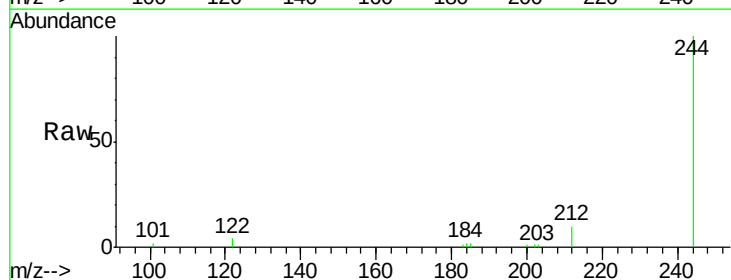
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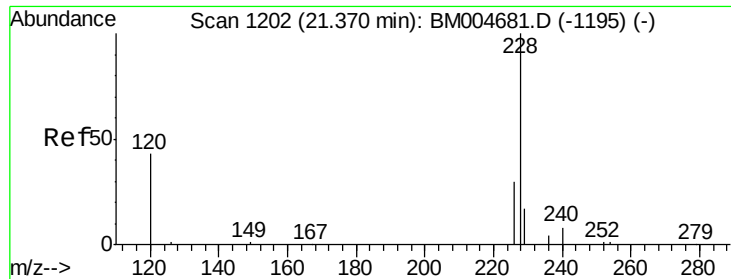
mohammad
 3/21/2016 2:42:52 PM



#24
 Terphenyl-d14
 Concen: 0.45 ng
 RT: 19.84 min Scan# 1121
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.7	11.5
122	4.2	3.4	5.0





#25

Benzo(a)anthracene

Concen: 0.47 ng

RT: 21.37 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

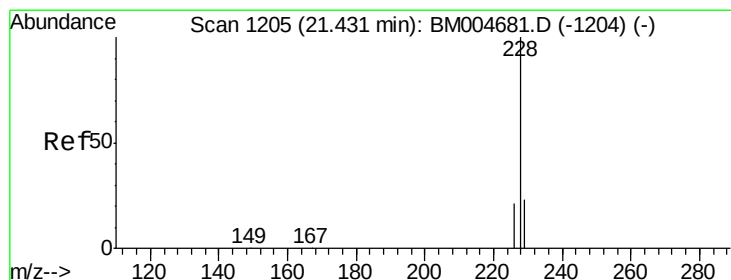
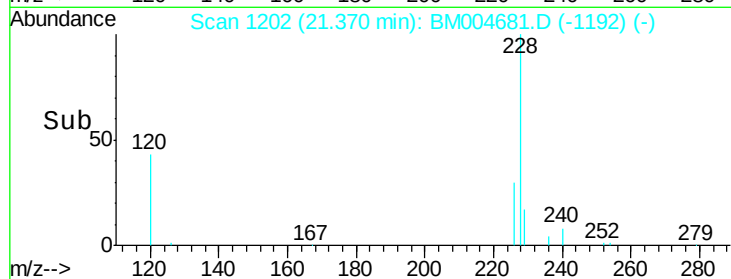
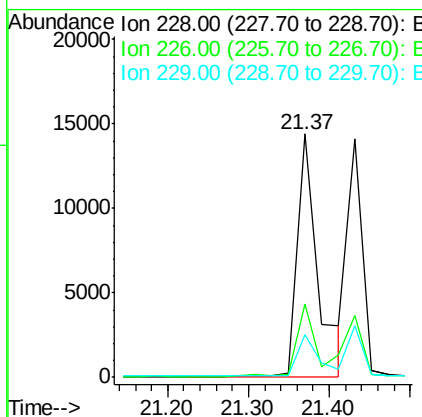
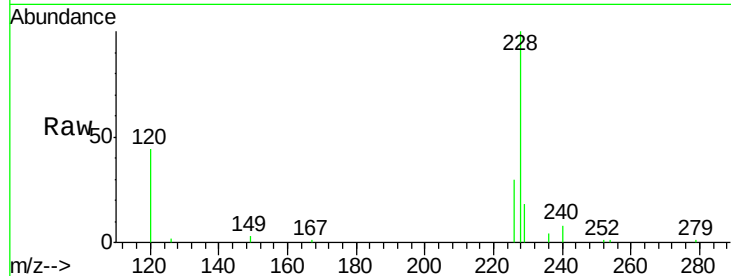
ClientSampleId :

SSTDICCC0.4

Tgt Ion:	228	Resp:	25418
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.2	36.2
229	17.7	14.2	21.2

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#26

Chrysene

Concen: 0.44 ng

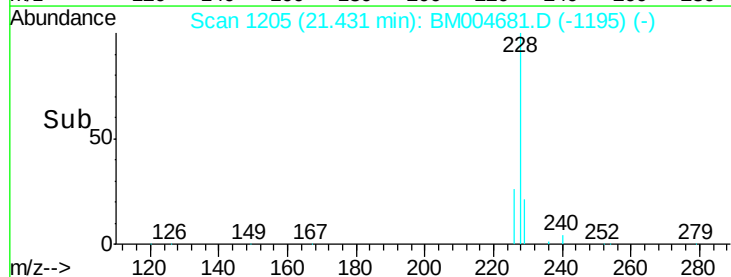
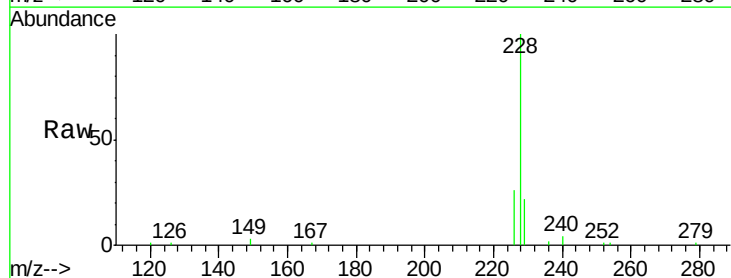
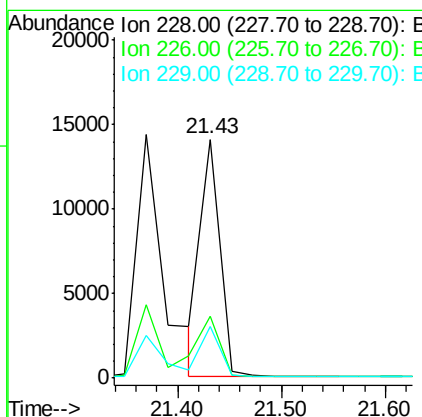
RT: 21.43 min Scan# 1205

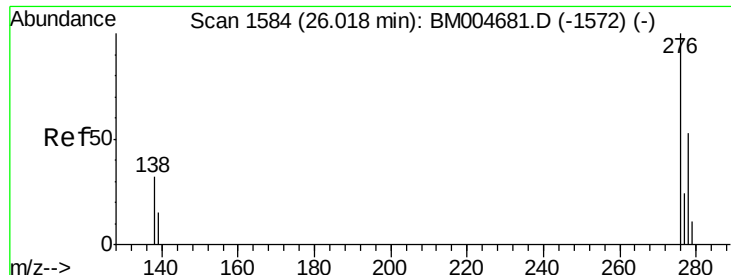
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion:	228	Resp:	17882
Ion Ratio	Lower	Upper	
228	100		
226	26.1	20.9	31.3
229	21.8	17.4	26.2





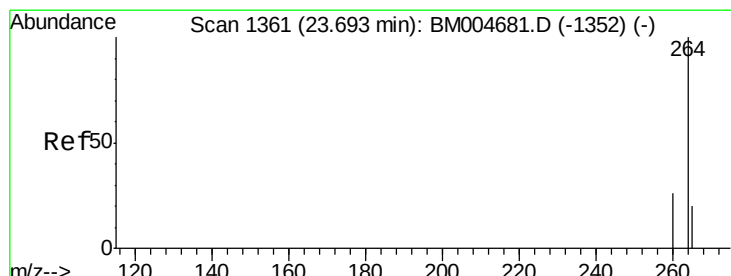
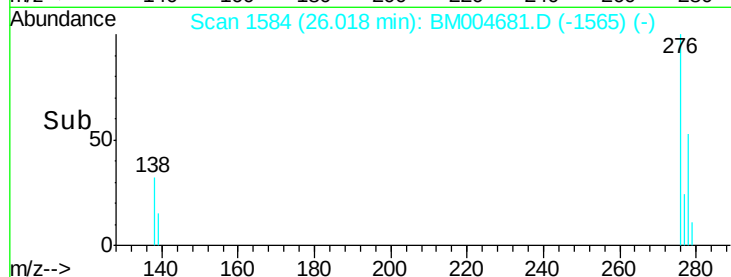
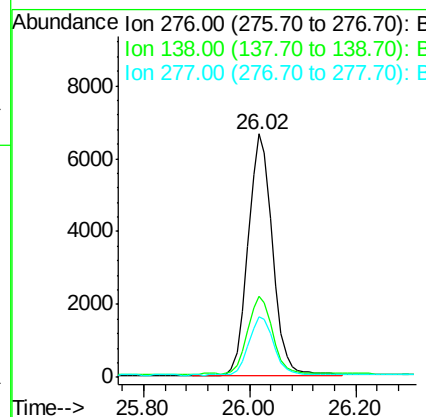
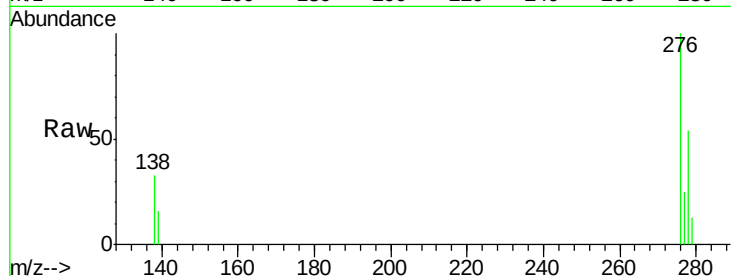
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.46 ng
 RT: 26.02 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Instrument :
 BNA_M
 ClientSampleId :
 SSTDICC0.4

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.4	25.9	38.9
277	24.7	19.8	29.6

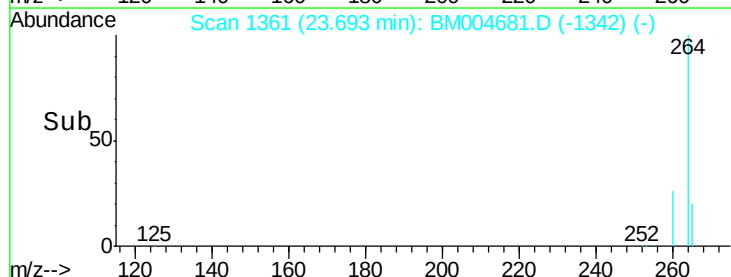
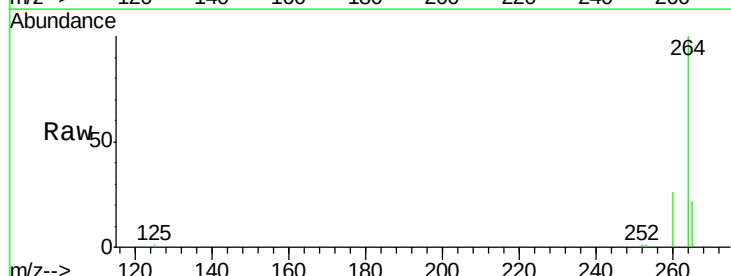
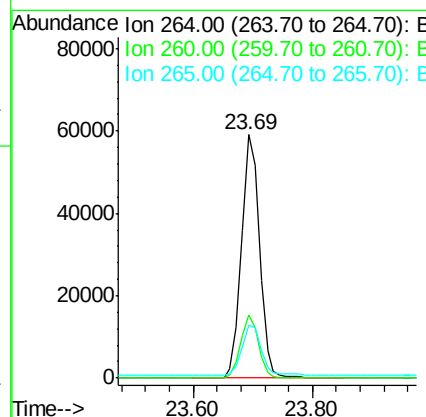
Manual Integrations
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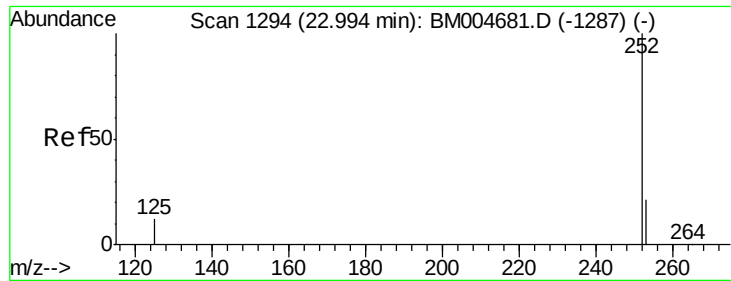
mohammad
 3/21/2016 2:42:52 PM



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.69 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: BM004681.D
 Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.0	31.4
265	21.9	17.5	26.3





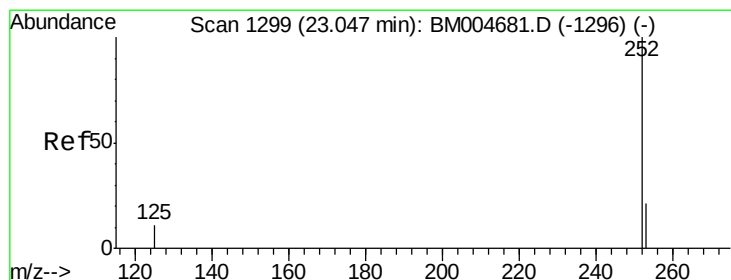
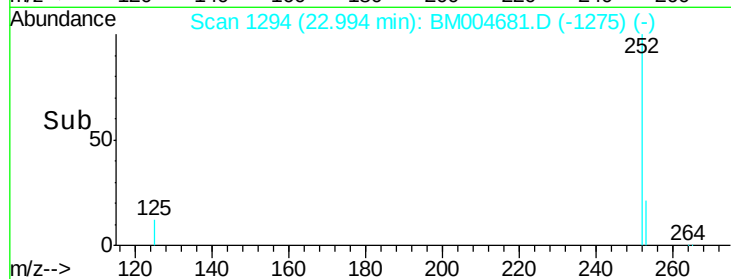
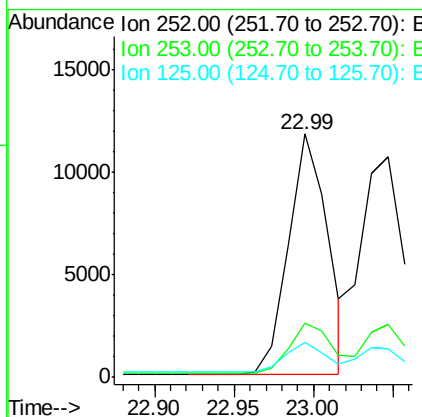
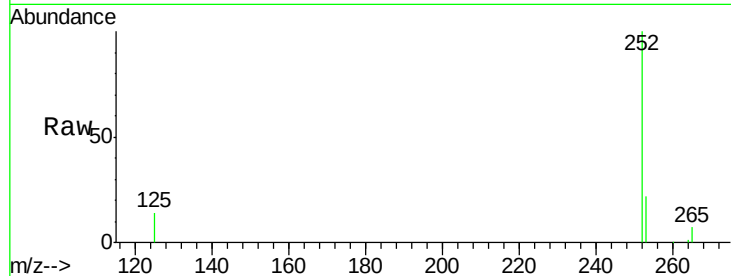
#29
Benzo(b)fluoranthene
Concen: 0.45 ng
RT: 22.99 min Scan# 1294
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Instrument :
BNA_M
ClientSampleId :
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	14.2	11.4	17.0

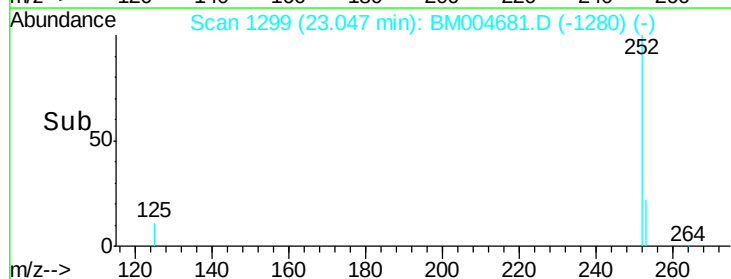
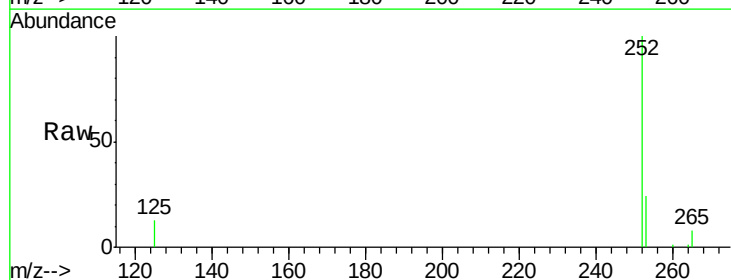
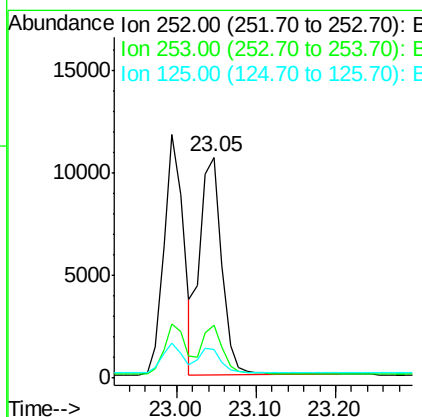
Manual Integrations
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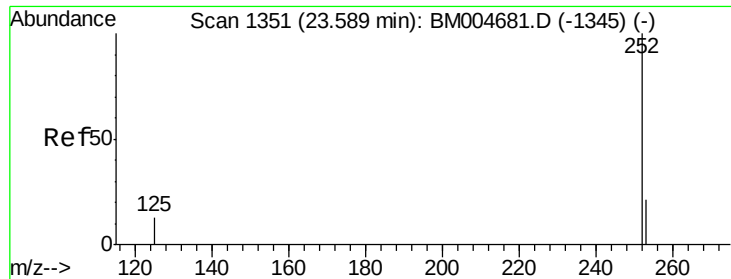
mohammad
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#30
Benzo(k)fluoranthene
Concen: 0.46 ng
RT: 23.05 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BM004681.D
Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.3	28.9
125	13.2	10.6	15.8





#31

Benzo(a)pyrene

Concen: 0.45 ng

RT: 23.59 min Scan# 1351

Delta R.T. 0.00 min

Lab File: BM004681.D

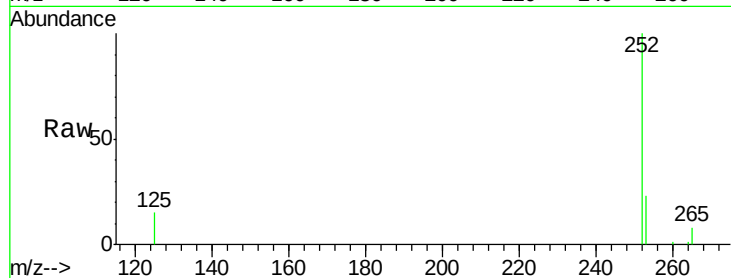
Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

ClientSampleId :

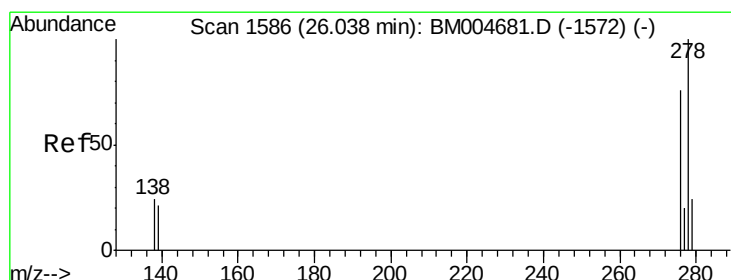
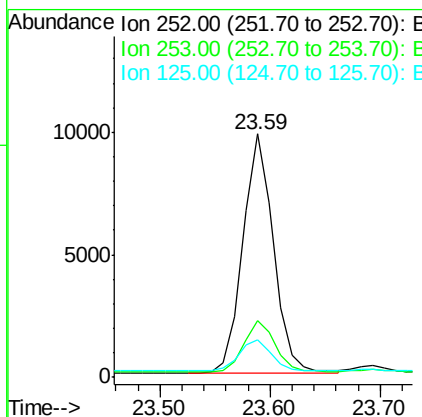
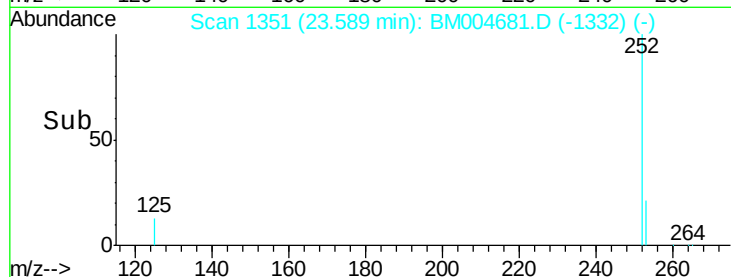
SSTDICCC0.4



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.6	28.0
125	15.4	12.3	18.5

Manual Integrations
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mohammad
3/21/2016 2:42:52 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.45 ng

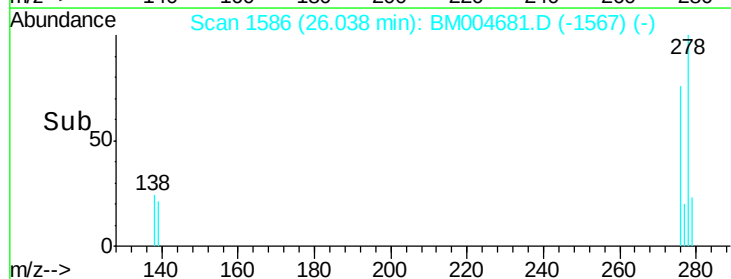
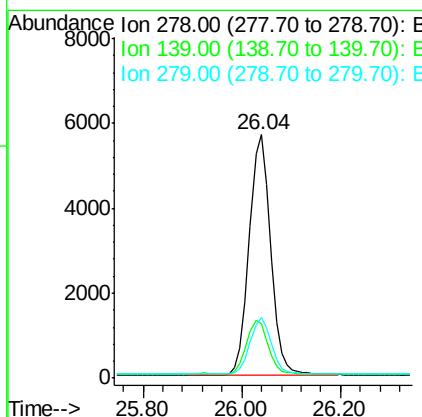
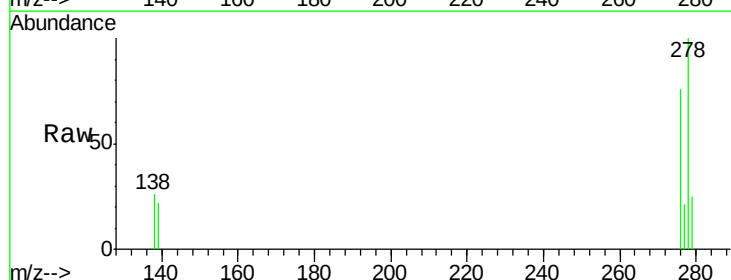
RT: 26.04 min Scan# 1586

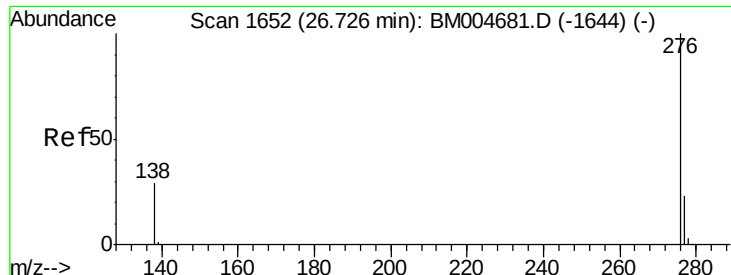
Delta R.T. 0.00 min

Lab File: BM004681.D

Acq: 18 Mar 2016 14:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.0	17.6	26.4
279	24.9	19.9	29.9





#33

Benzo(g,h,i)perylene

Concen: 0.39 ng

RT: 26.73 min Scan# 1652

Delta R.T. 0.00 min

Lab File: BM004681.D

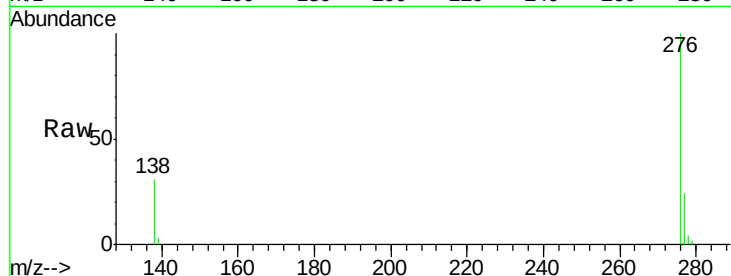
Acq: 18 Mar 2016 14:06

Instrument :

BNA_M

ClientSampleId :

SSTDICCC0.4



Tgt Ion: 276 Resp: 17871

Ion Ratio Lower Upper

276 100

277 23.9 19.1 28.7

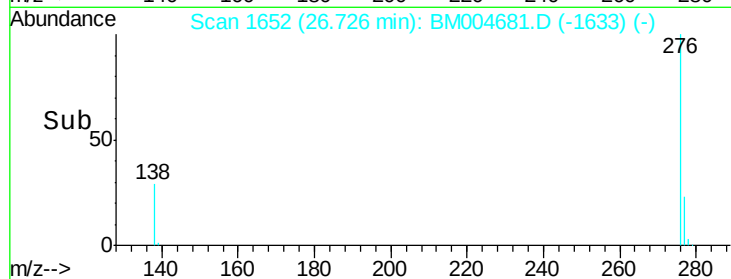
138 30.6 24.5 36.7

Manual Integrations

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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

