

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
 Data File : BM007451.D
 Acq On : 07 Sep 2016 22:30
 Operator : UM/SJ
 Sample : H4666-05
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BD3A3

Manual Integrations
 APPROVED

umangi
 9/8/2016 12:54:31 PM

Quant Time: Sep 08 05:20:49 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Sep 08 03:10:54 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	310926	20.00	ng/ul	0.00
18) Naphthalene-d8	10.57	136	1495934	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.43	164	961979	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.17	188	2287797	20.00	ng/ul	0.00
75) Chrysene-d12	21.36	240	2264566	20.00	ng/ul	0.00
83) Perylene-d12	23.63	264	2028661	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	15882	2.61	ng/uL	0.00
5) Phenol-d5	6.96	99	462222	15.74	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.13	67	251047	16.27	ng/ul	0.00
9) 2-Chlorophenol-d4	7.33	132	357009	16.45	ng/ul	0.00
13) 4-Methylphenol-d8	8.49	113	370398	14.46	ng/ul	0.00
19) Nitrobenzene-d5	8.95	128	186008	16.94	ng/ul	0.00
22) 2-Nitrophenol-d4	9.66	143	219114	17.08	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.20	165	418216	16.38	ng/ul	0.00
29) 4-Chloroaniline-d4	10.72	131	107904	3.39	ng/ul	0.00
43) Dimethylphthalate-d6	13.83	166	1382066	16.65	ng/ul	0.00
46) Acenaphthylene-d8	14.12	160	1704330	17.72	ng/ul	0.00
51) 4-Nitrophenol-d4	14.63	143	110670	7.06	ng/ul	0.00
57) Fluorene-d10	15.42	176	1236067	17.22	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.54	200	218902	15.22	ng/ul	0.00
70) Anthracene-d10	17.27	188	1949005	18.24	ng/ul	0.00
76) Pyrene-d10	19.56	212	2125978	22.45	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.49	264	1590884	17.03	ng/ul	0.01

Target Compounds

						Qvalue
4) Benzaldehyde	6.95	77	36627	2.19	ng/ul#	79
6) Phenol	6.99	94	47111	1.55	ng/ul	94
14) Acetophenone	8.61	105	57772	1.47	ng/ul	96
28) Naphthalene	10.63	128	943853	12.69	ng/ul	100
34) 2-Methylnaphthalene	12.24	142	968412	15.90	ng/ul	99
40) 1,1'-Biphenyl	13.25	154	313556	4.20	ng/ul	99
44) Dimethylphthalate	13.88	163	871651	10.54	ng/ul	99
47) Acenaphthylene	14.14	152	328052	3.31	ng/ul#	95
49) Acenaphthene	14.49	153	723519	11.23	ng/ul	99
53) Dibenzofuran	14.82	168	1176383	12.20	ng/ul	95
58) Fluorene	15.47	166	561612	7.07	ng/ul	97
69) Phenanthrene	17.22	178	4718335	38.42	ng/ul	99
71) Anthracene	17.30	178	1334837	10.53	ng/ul	99
72) Carbazole	17.57	167	337716	3.06	ng/ul#	94
74) Fluoranthene	19.23	202	6505635	42.21	ng/ul	98
77) Pyrene	19.60	202	4953783	40.78	ng/ul	98
80) Benzo(a)anthracene	21.34	228	2705751	20.27	ng/ul	95
81) Bis(2-ethylhexyl)phthalate	21.26	149	83014	1.13	ng/ul#	88
82) Chrysene	21.39	228	4680729m	38.71	ng/ul	
85) Benzo(b)fluoranthene	22.95	252	5640118	47.02	ng/ul	98
86) Benzo(k)fluoranthene	22.99	252	1562640m	14.10	ng/ul	
88) Benzo(a)pyrene	23.53	252	1044441	9.10	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	25.92	276	1089846	7.74	ng/ul	99

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007451.D
Acq On : 07 Sep 2016 22:30
Operator : UM/SJ
Sample : H4666-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BD3A3

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM

Quant Time: Sep 08 05:20:49 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 08 03:10:54 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Dibenzo(a,h)anthracene	25.93	278	389850	3.33	ng/ul#	87
91) Benzo(g,h,i)perylene	26.63	276	681086	5.69	ng/ul	99

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

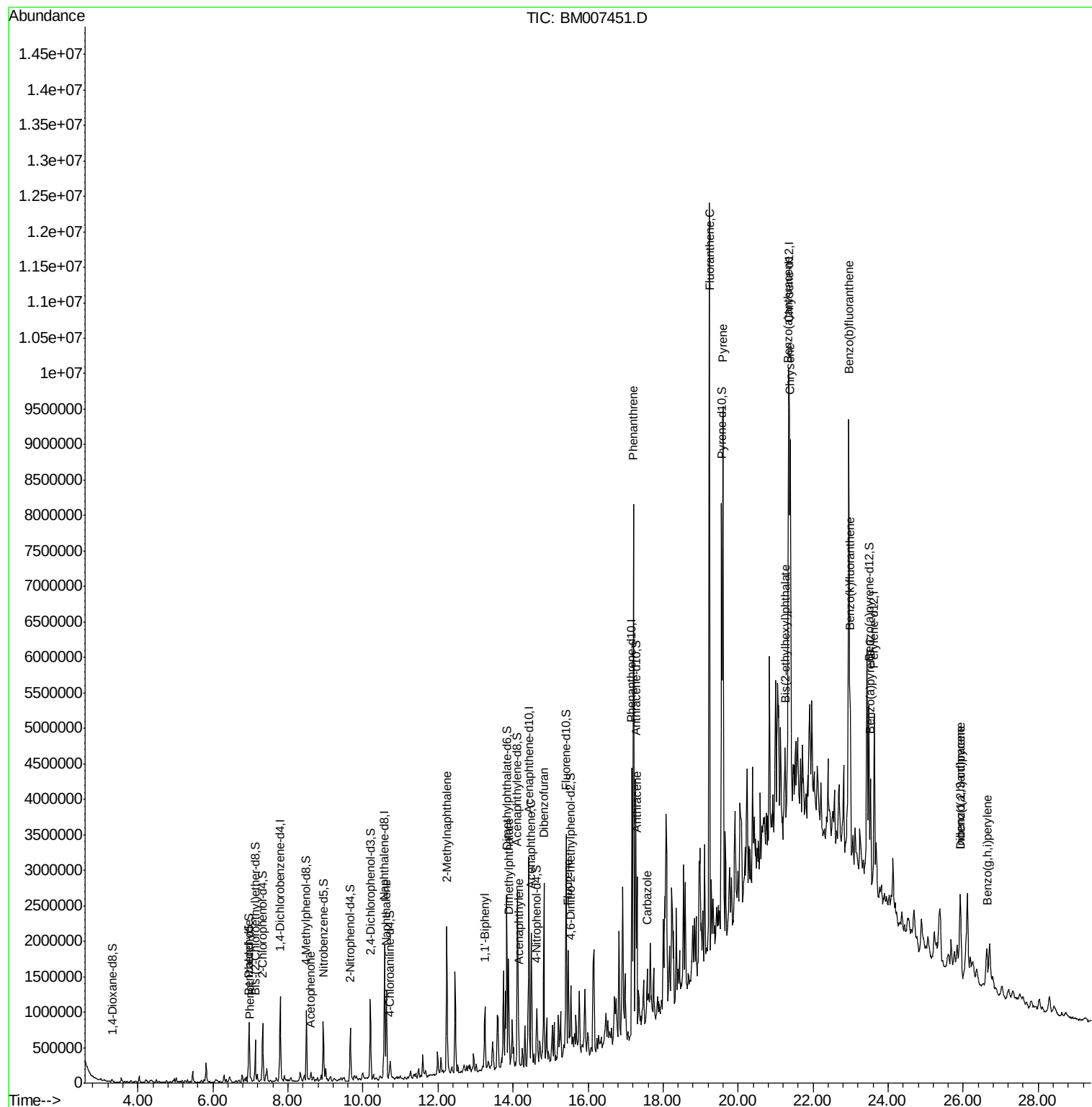
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
Data File : BM007451.D
Acq On : 07 Sep 2016 22:30
Operator : UM/SJ
Sample : H4666-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

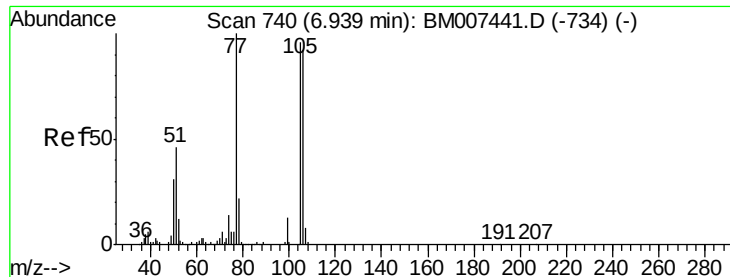
Instrument :
BNA_M
ClientSampleId :
BD3A3

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM

Quant Time: Sep 08 05:20:49 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 08 03:10:54 2016
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.19 ng/ul

RT: 6.95 min Scan# 741

Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

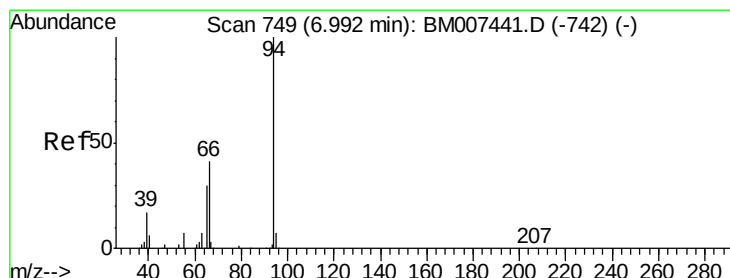
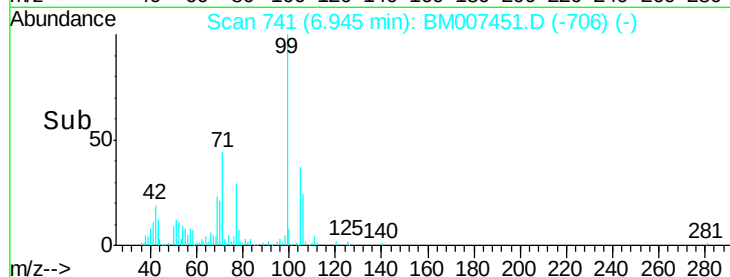
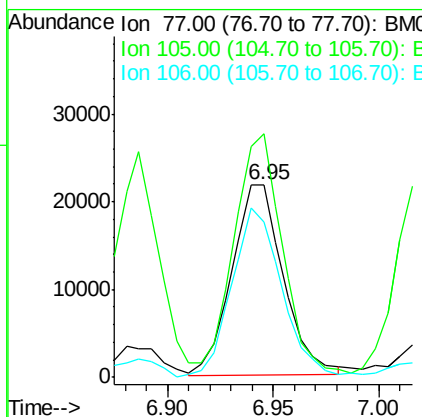
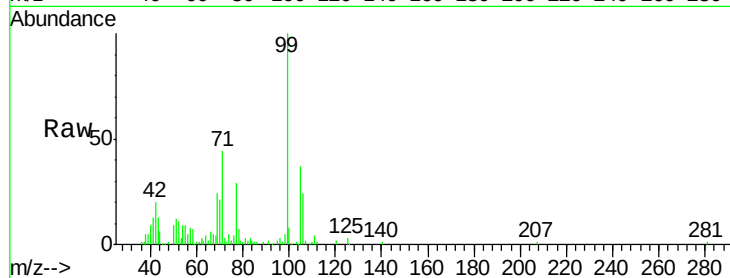
ClientSampleId :

BD3A3

Tgt Ion: 77 Resp: 36627
 Ion Ratio Lower Upper
 77 100
 105 126.4 76.9 115.3#
 106 80.4 71.8 107.8

Manual Integrations
 APPROVED

umangi
 9/8/2016 12:54:31 PM



#6

Phenol

Concen: 1.55 ng/ul

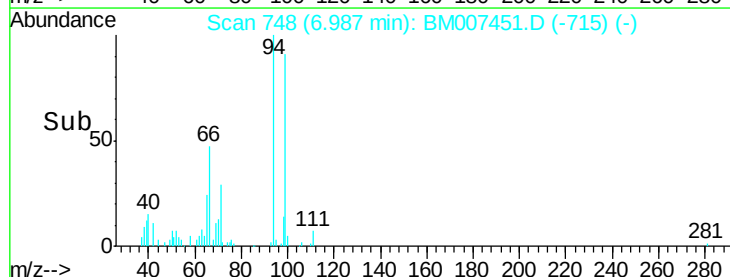
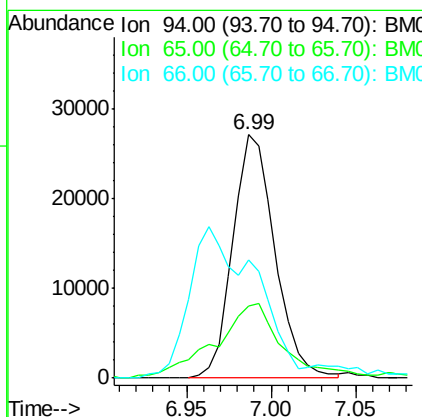
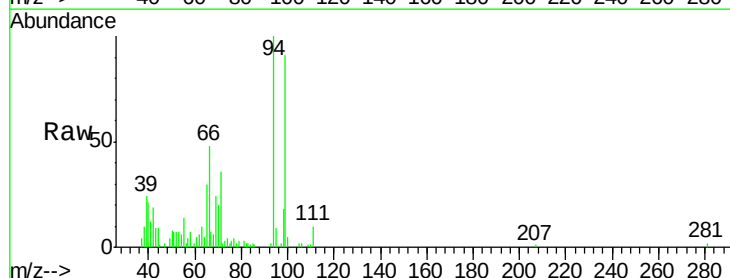
RT: 6.99 min Scan# 748

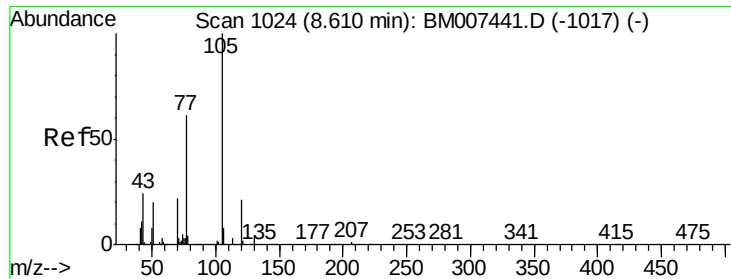
Delta R.T. -0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Tgt Ion: 94 Resp: 47111
 Ion Ratio Lower Upper
 94 100
 65 29.5 23.9 35.9
 66 48.4 33.5 50.3





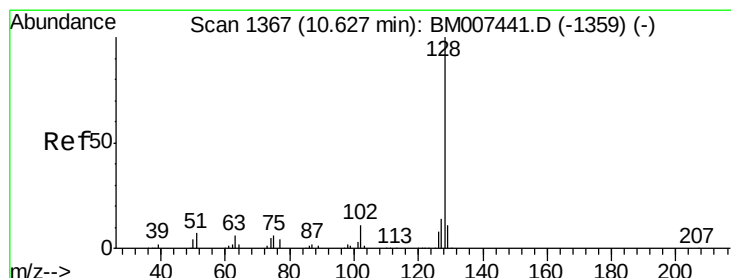
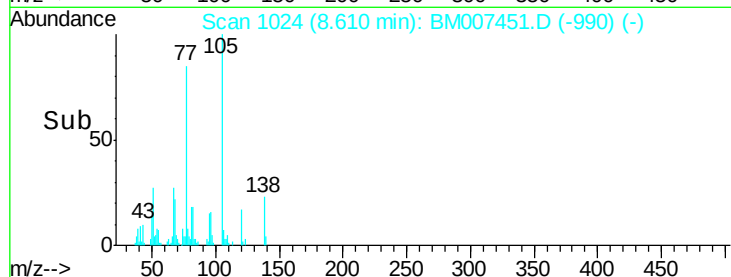
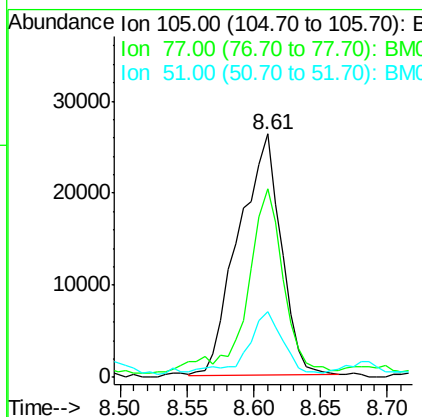
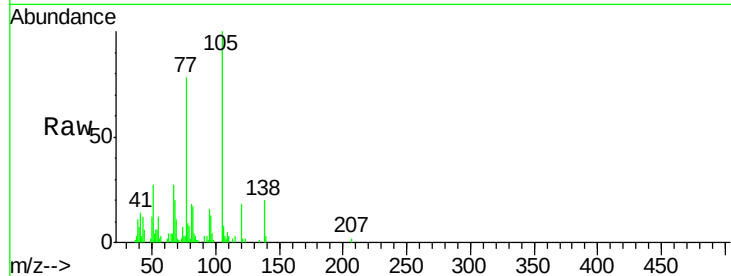
#14
Acetophenone
Concen: 1.47 ng/ul
RT: 8.61 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Instrument :
BNA_M
ClientSampleId :
BD3A3

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
77	77.7	65.9	98.9
51	26.9	22.2	33.2

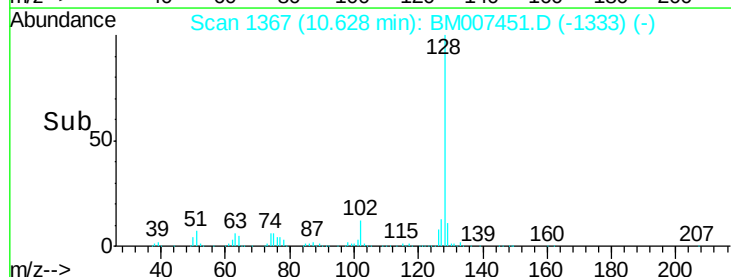
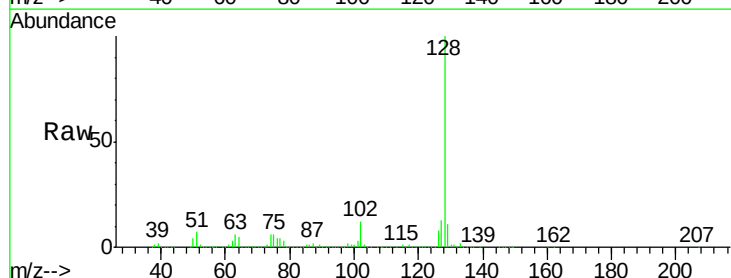
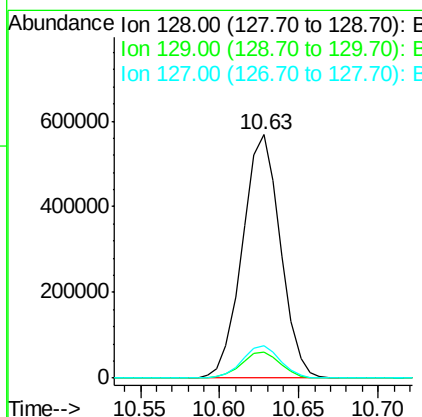
Manual Integrations
APPROVED

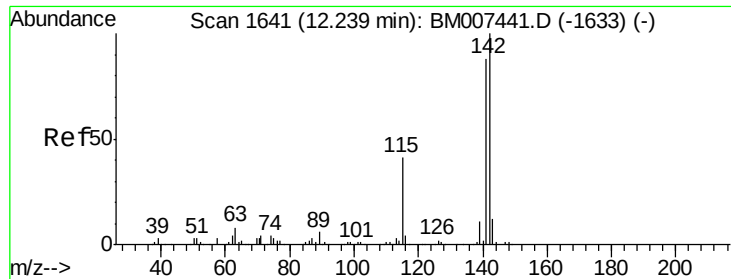
umangi
9/8/2016 12:54:31 PM



#28
Naphthalene
Concen: 12.69 ng/ul
RT: 10.63 min Scan# 1367
Delta R.T. 0.00 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.9	8.6	12.8
127	13.1	10.6	15.8





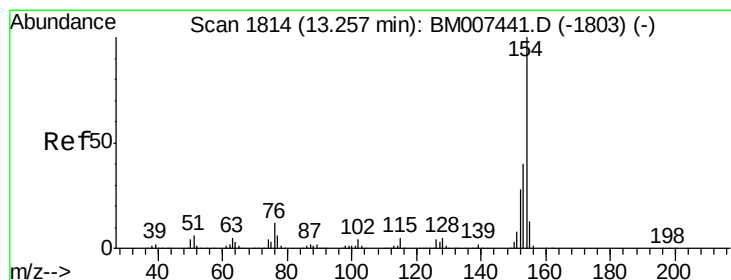
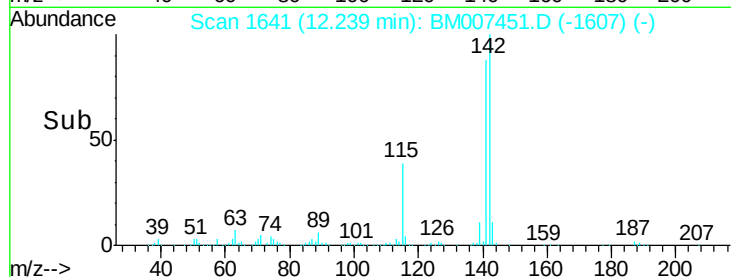
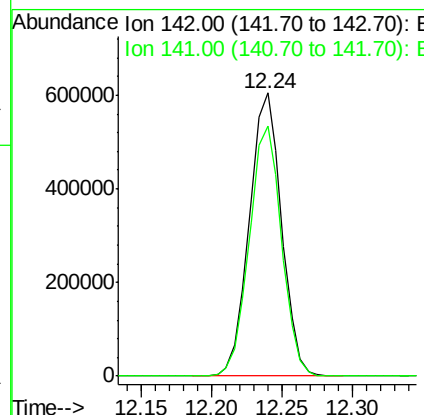
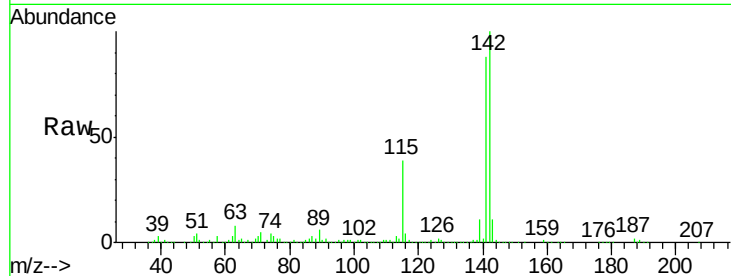
#34
 2-Methylnaphthalene
 Concen: 15.90 ng/ul
 RT: 12.24 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Instrument :
 BNA_M
 ClientSampleId :
 BD3A3

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	968412		
141	88.2	71.3	106.9	

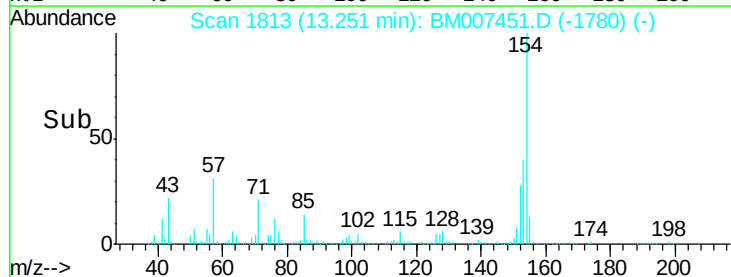
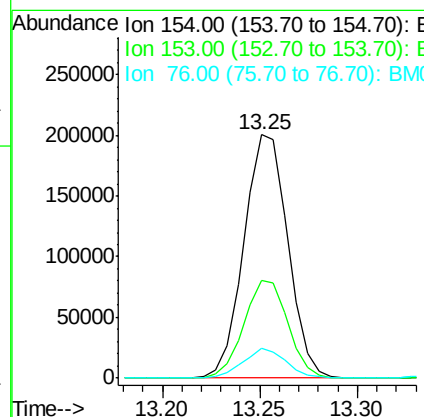
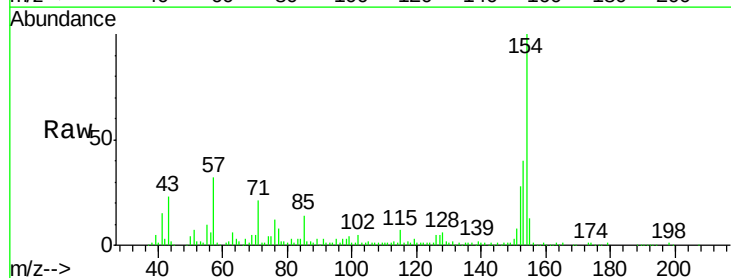
Manual Integrations
 APPROVED

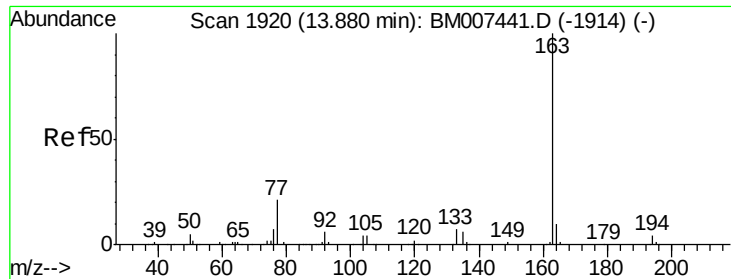
umangi
 9/8/2016 12:54:31 PM



#40
 1,1'-Biphenyl
 Concen: 4.20 ng/ul
 RT: 13.25 min Scan# 1813
 Delta R.T. -0.01 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	313556		
153	40.1	31.3	46.9	
76	12.4	10.0	15.0	





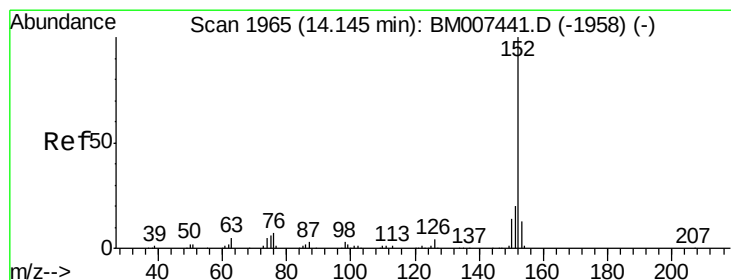
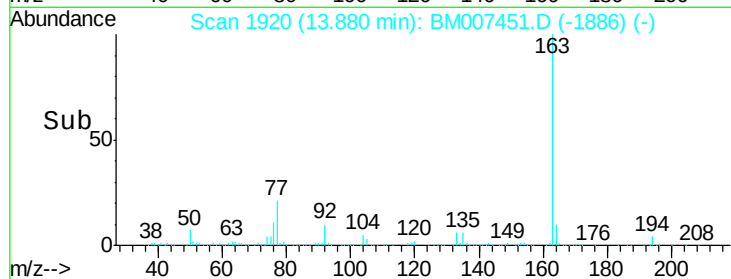
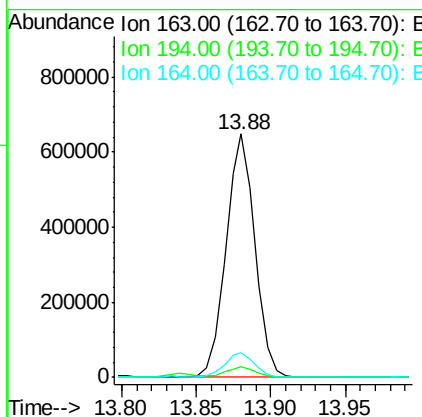
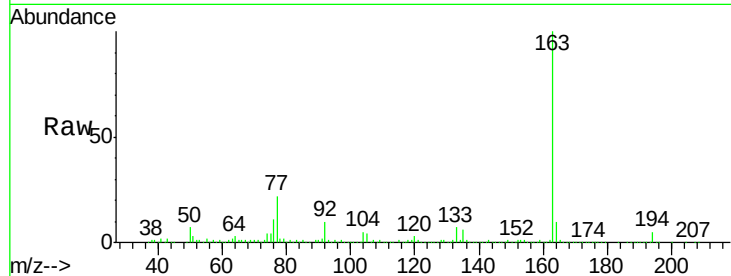
#44
Dimethylphthalate
Concen: 10.54 ng/ul
RT: 13.88 min Scan# 1920
Delta R.T. 0.00 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Instrument :
BNA_M
ClientSampleId :
BD3A3

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	871651		
194	4.5		3.4	5.2
164	10.3		7.8	11.8

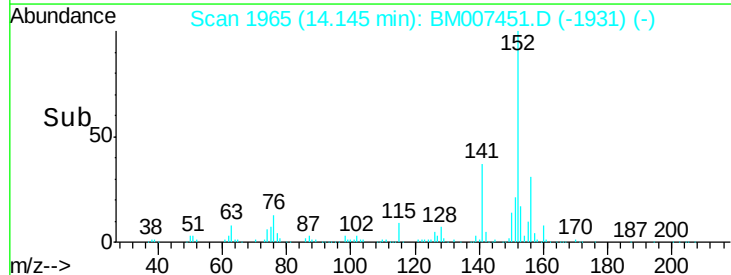
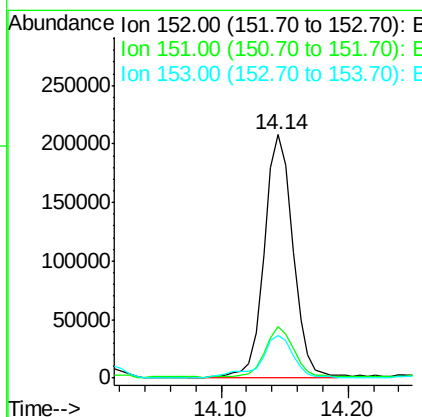
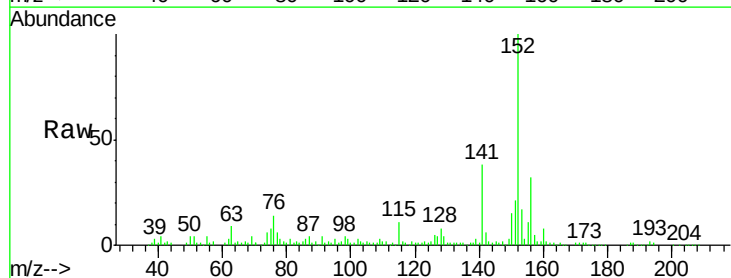
Manual Integrations
APPROVED

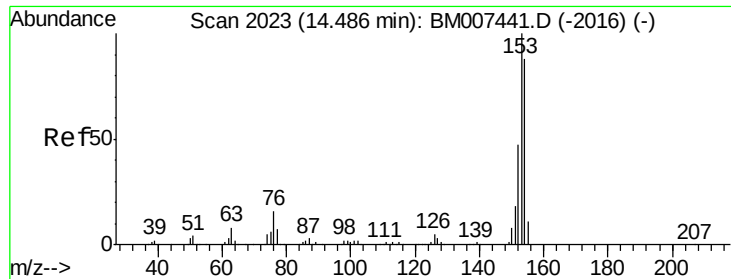
umangi
9/8/2016 12:54:31 PM



#47
Acenaphthylene
Concen: 3.31 ng/ul
RT: 14.14 min Scan# 1965
Delta R.T. 0.00 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	328052		
151	21.1		16.0	24.0
153	17.4		11.0	16.6#





#49

Acenaphthene

Concen: 11.23 ng/ul

RT: 14.49 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

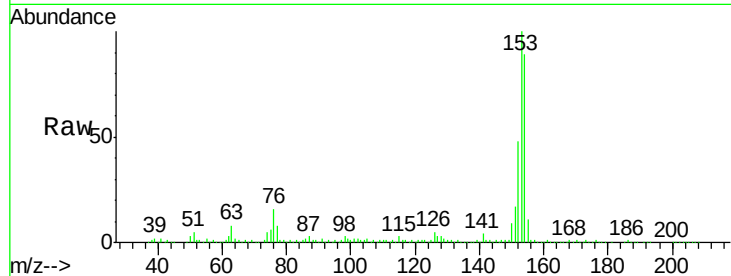
ClientSampleId :

BD3A3

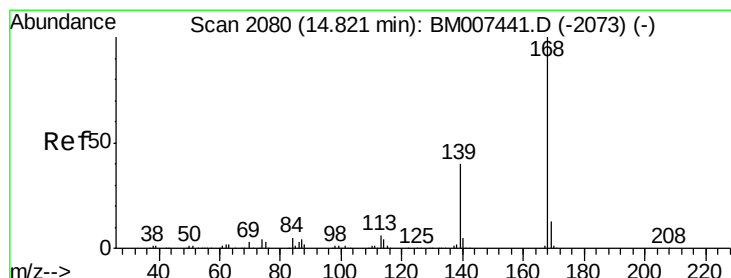
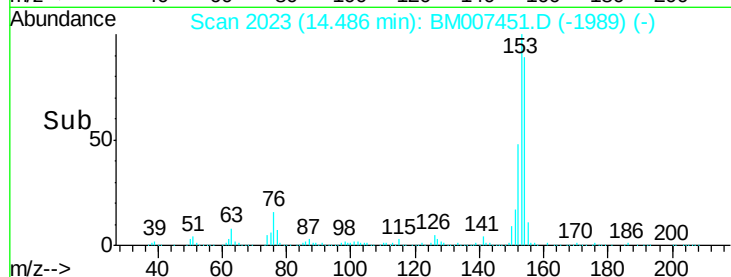
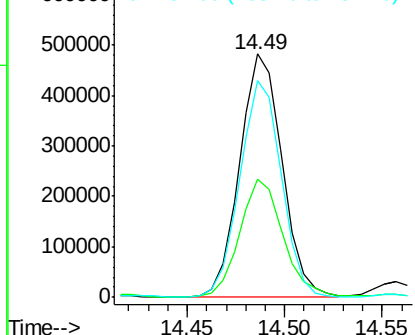
Tgt Ion:	153	Resp:	723519
Ion Ratio	Lower	Upper	
153	100		
152	48.5	37.8	56.6
154	89.2	71.4	107.0

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 12.20 ng/ul

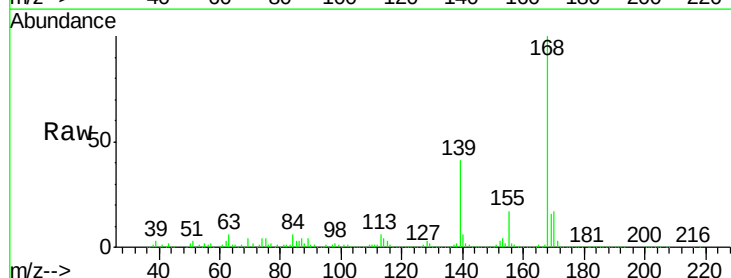
RT: 14.82 min Scan# 2080

Delta R.T. 0.00 min

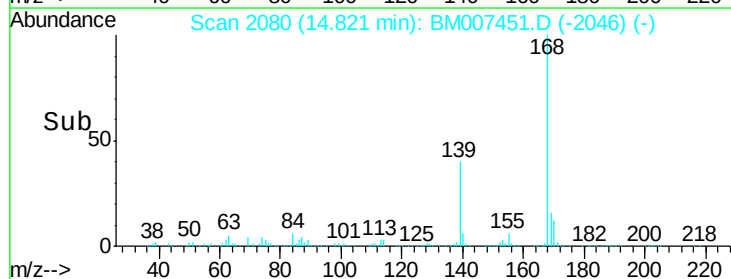
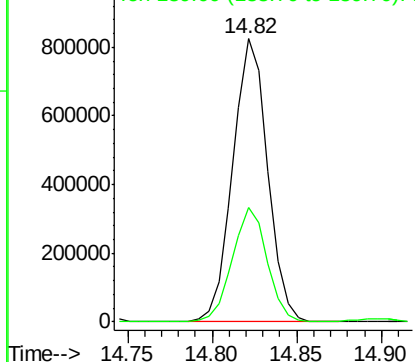
Lab File: BM007451.D

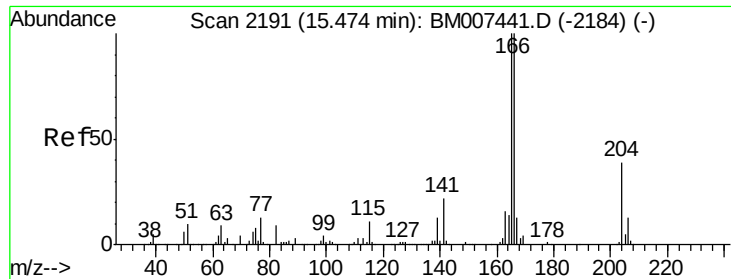
Acq: 07 Sep 2016 22:30

Tgt Ion:	168	Resp:	1176383
Ion Ratio	Lower	Upper	
168	100		
139	40.5	30.1	45.1



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





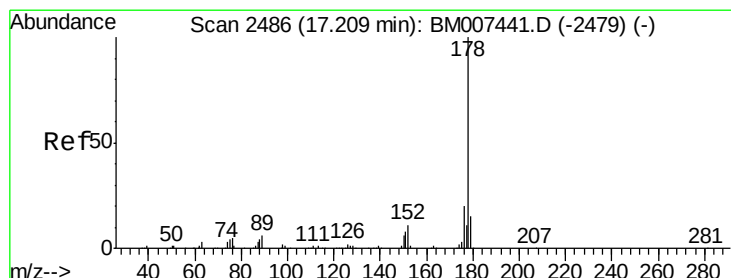
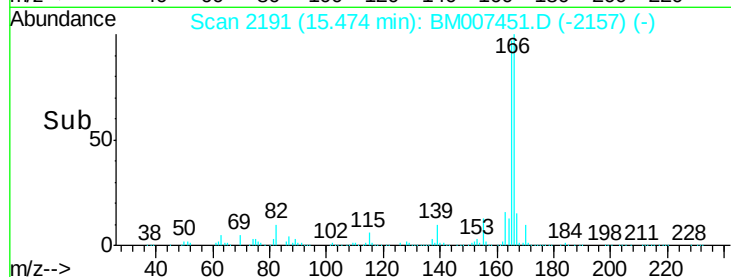
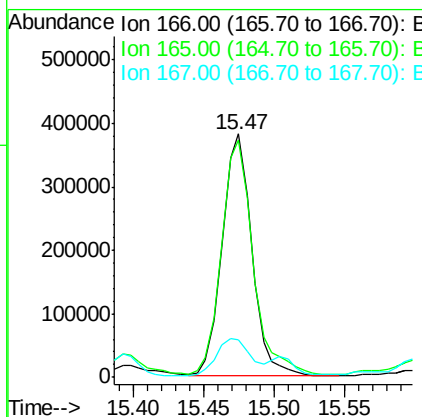
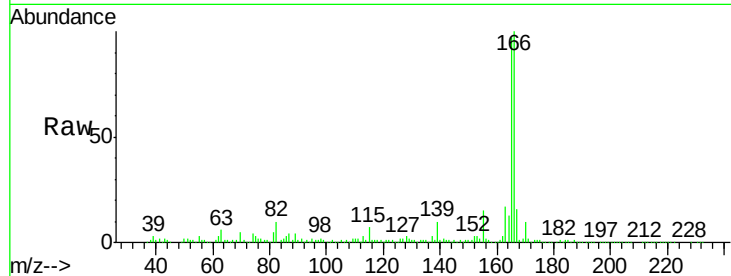
#58
 Fluorene
 Concen: 7.07 ng/ul
 RT: 15.47 min Scan# 2191
 Delta R.T. 0.00 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Instrument :
 BNA_M
 ClientSampleID :
 BD3A3

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	561612		
165	97.4	79.9	119.9	
167	15.5	10.5	15.7	

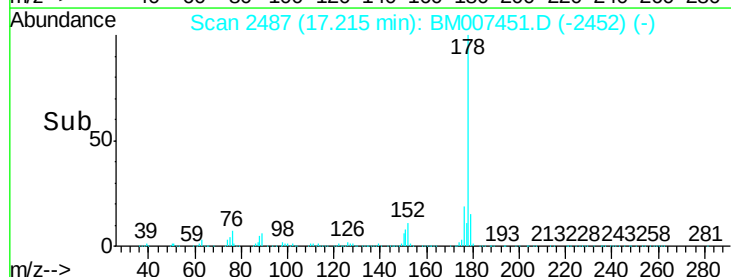
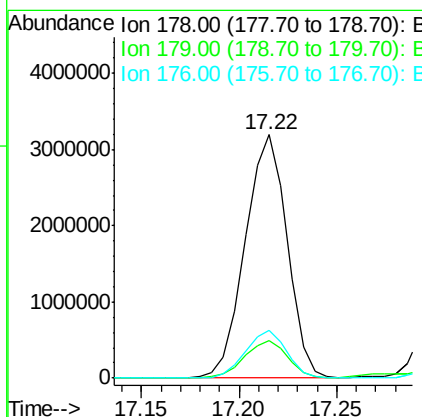
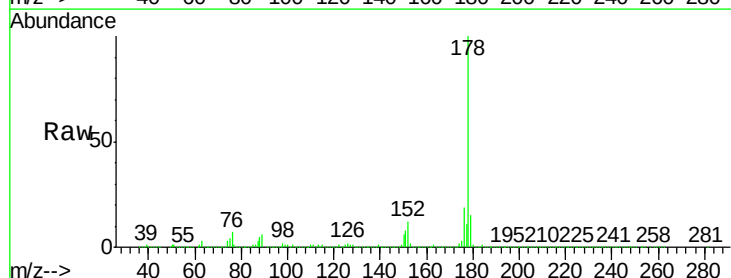
Manual Integrations
 APPROVED

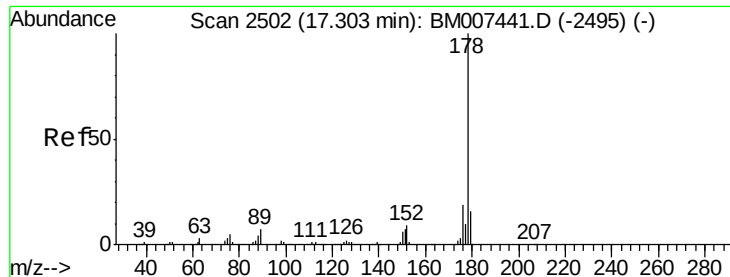
umangi
 9/8/2016 12:54:31 PM



#69
 Phenanthrene
 Concen: 38.42 ng/ul
 RT: 17.22 min Scan# 2487
 Delta R.T. 0.01 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	4718335		
179	15.4	12.2	18.2	
176	19.4	15.1	22.7	





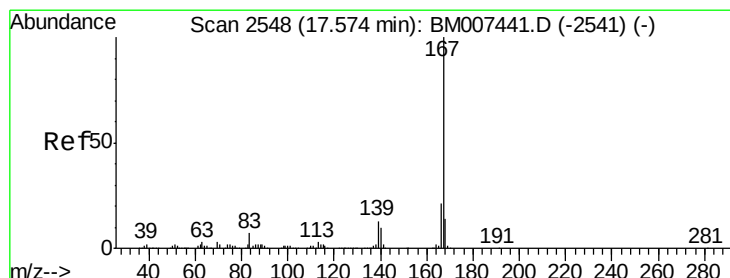
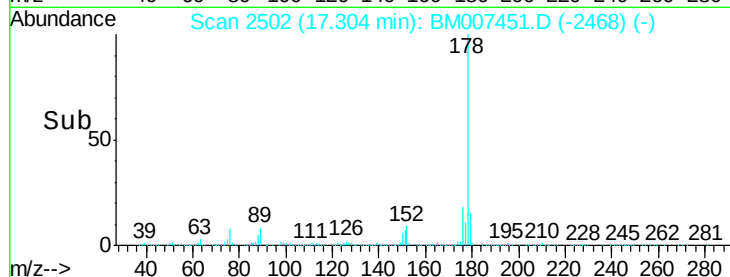
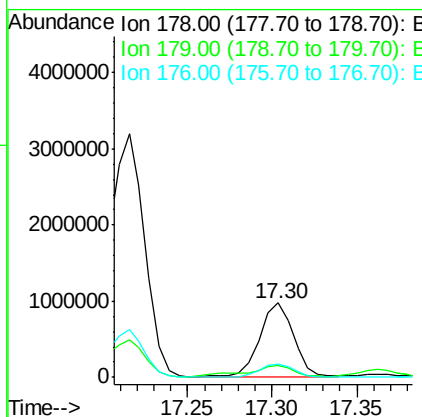
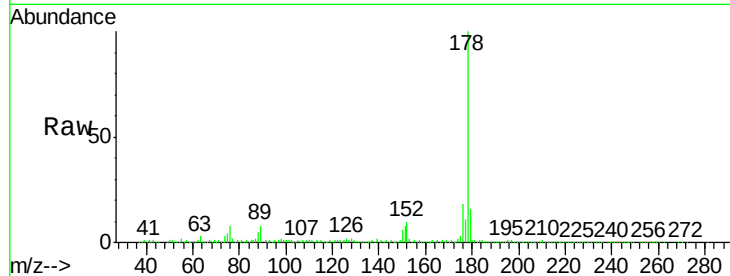
#71
 Anthracene
 Concen: 10.53 ng/ul
 RT: 17.30 min Scan# 2502
 Delta R.T. 0.00 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Instrument :
 BNA_M
 ClientSampleId :
 BD3A3

Tgt Ion:178 Resp: 1334837
 Ion Ratio Lower Upper
 178 100
 179 15.6 12.1 18.1
 176 18.1 14.5 21.7

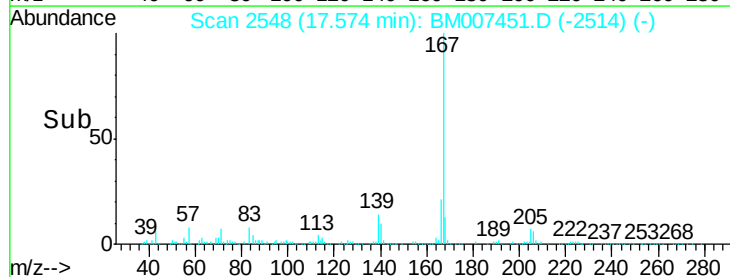
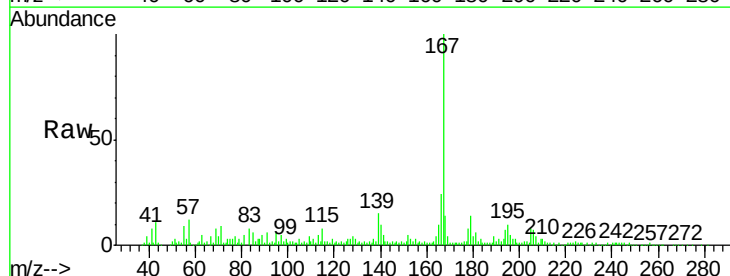
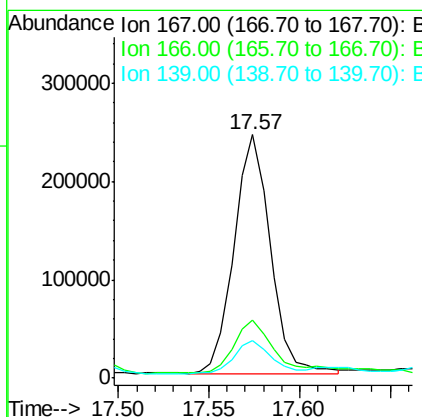
Manual Integrations
 APPROVED

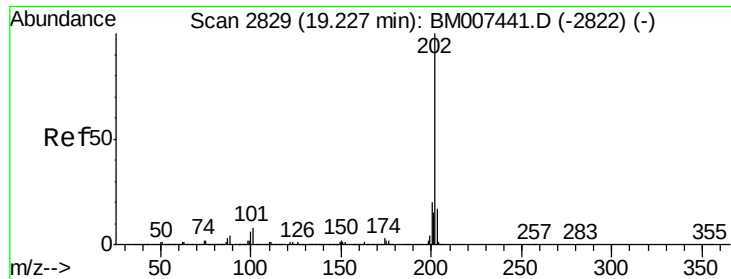
umangi
 9/8/2016 12:54:31 PM



#72
 Carbazole
 Concen: 3.06 ng/ul
 RT: 17.57 min Scan# 2548
 Delta R.T. 0.00 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Tgt Ion:167 Resp: 337716
 Ion Ratio Lower Upper
 167 100
 166 23.6 16.6 25.0
 139 15.4 10.2 15.4#





#74

Fluoranthene

Concen: 42.21 ng/ul

RT: 19.23 min Scan# 2830

Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

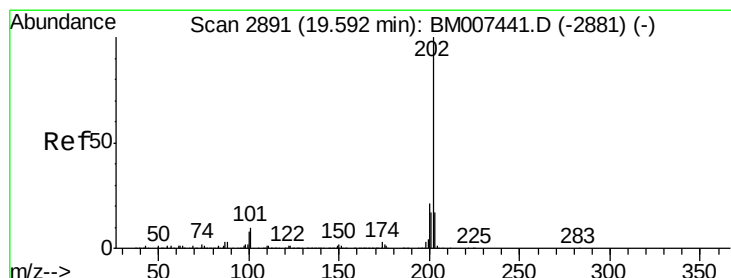
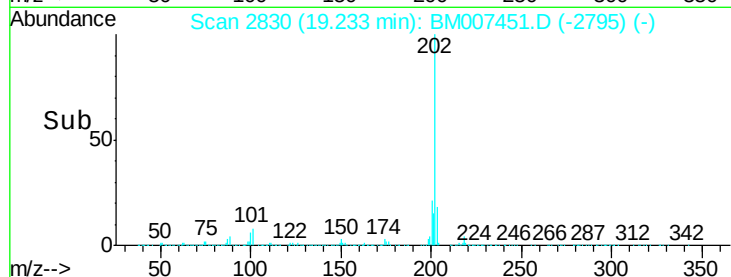
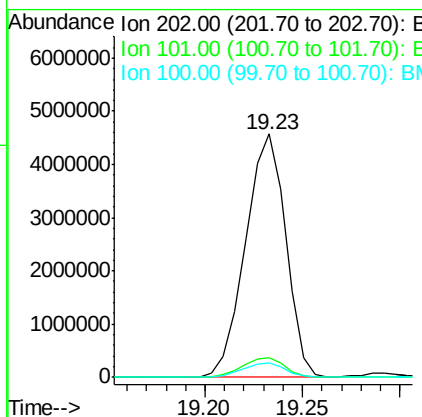
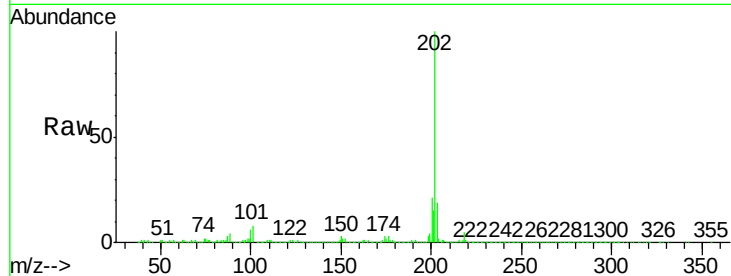
ClientSampleId :

BD3A3

Tgt Ion:	202	Resp:	6505635
Ion Ratio	Lower	Upper	
202	100		
101	8.1	6.9	10.3
100	6.1	5.4	8.0

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM



#77

Pyrene

Concen: 40.78 ng/ul

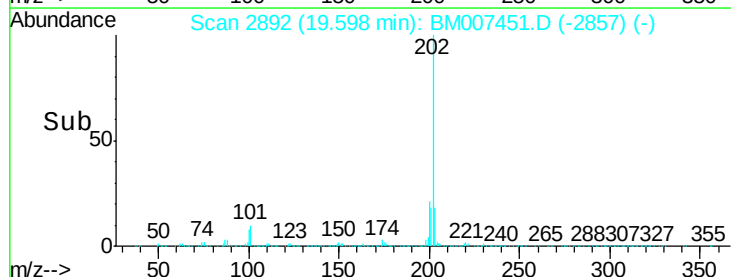
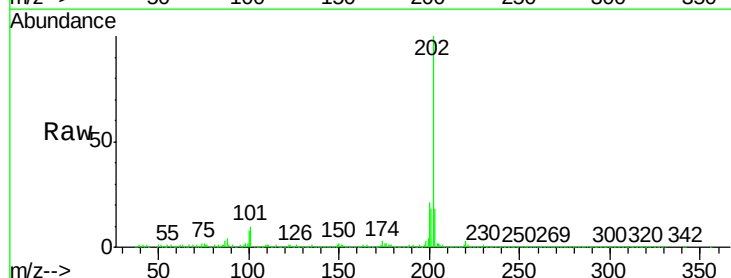
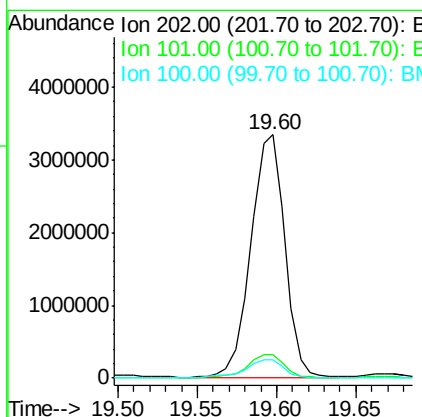
RT: 19.60 min Scan# 2892

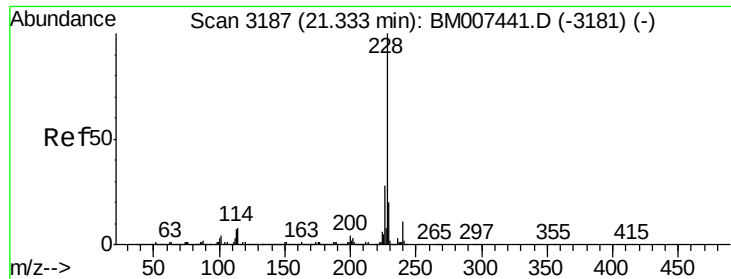
Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Tgt Ion:	202	Resp:	4953783
Ion Ratio	Lower	Upper	
202	100		
101	9.7	8.4	12.6
100	7.7	6.9	10.3





#80

Benzo(a)anthracene

Concen: 20.27 ng/ul

RT: 21.34 min Scan# 3188

Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

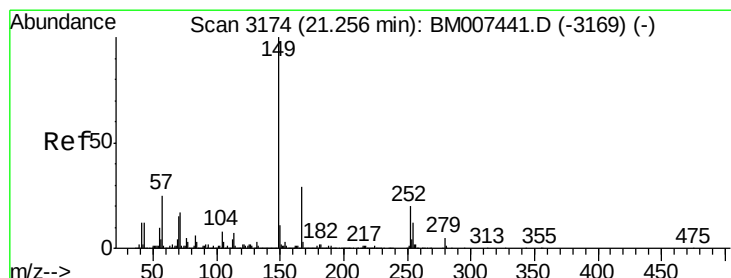
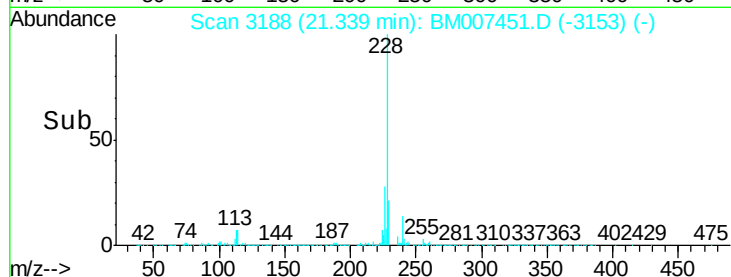
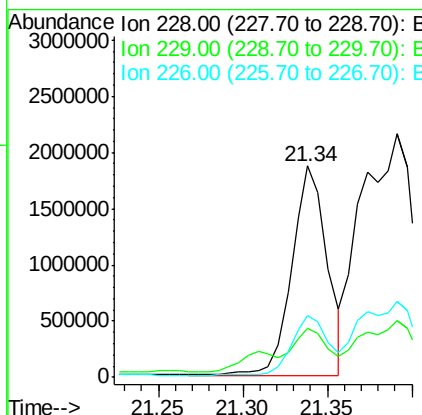
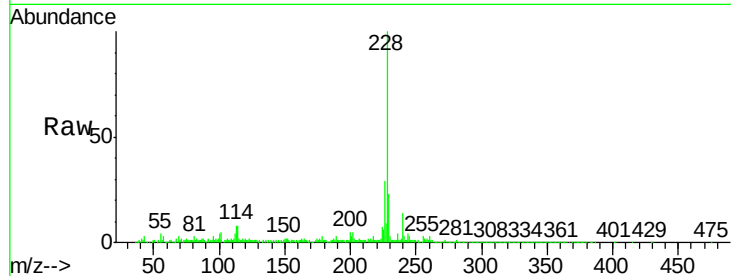
ClientSampled :

BD3A3

Tgt Ion:	228	Resp:	2705751
Ion	Ratio	Lower	Upper
228	100		
229	23.0	15.6	23.4
226	29.1	21.8	32.8

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM



#81

Bis(2-ethylhexyl)phthalate

Concen: 1.13 ng/ul

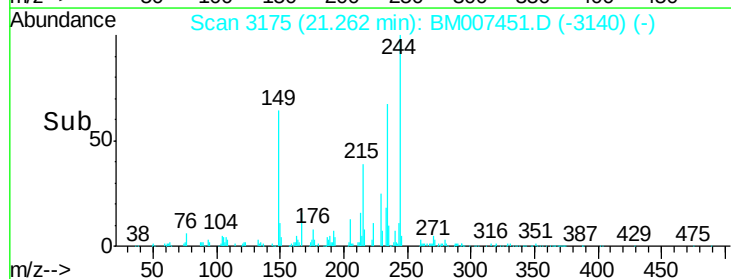
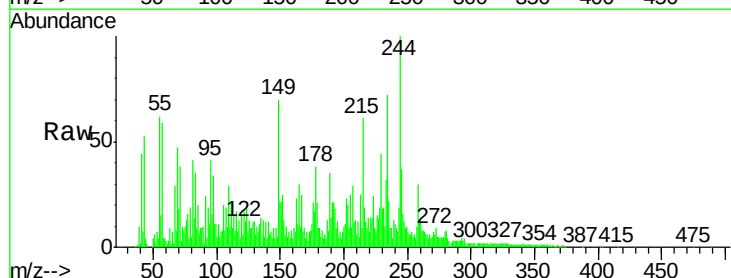
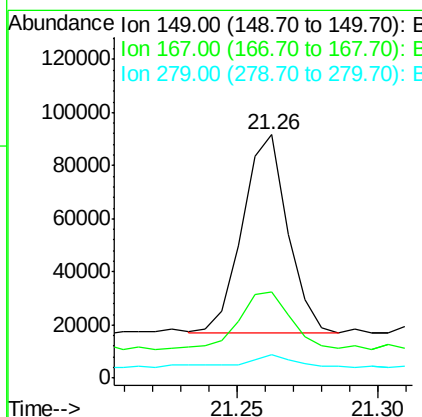
RT: 21.26 min Scan# 3175

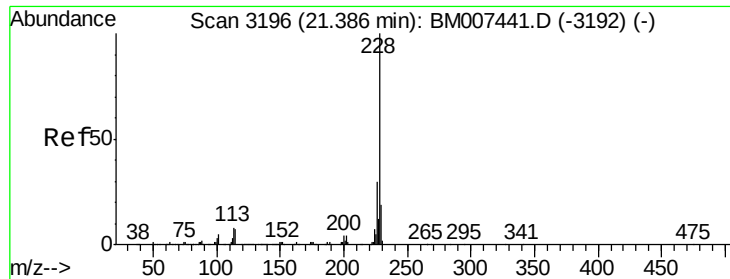
Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Tgt Ion:	149	Resp:	83014
Ion	Ratio	Lower	Upper
149	100		
167	35.5	23.2	34.8#
279	9.4	4.1	6.1#





#82

Chrysene

Concen: 38.71 ng/ul m

RT: 21.39 min Scan# 3197

Delta R.T. 0.01 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

ClientSampleId :

BD3A3

Tgt Ion:228 Resp: 4680729

Ion Ratio Lower Upper

228 100

226 31.3 23.4 35.2

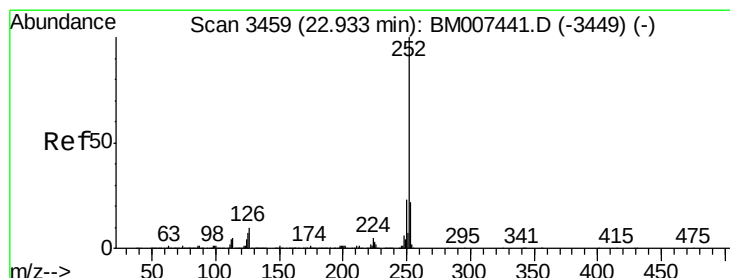
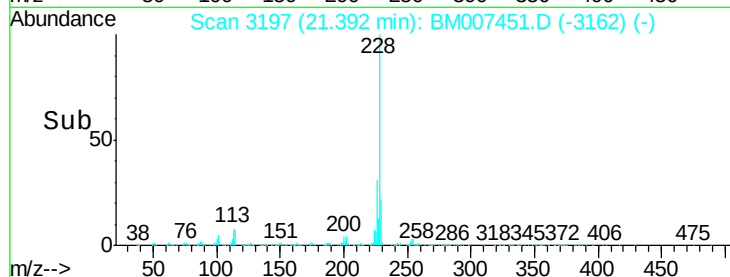
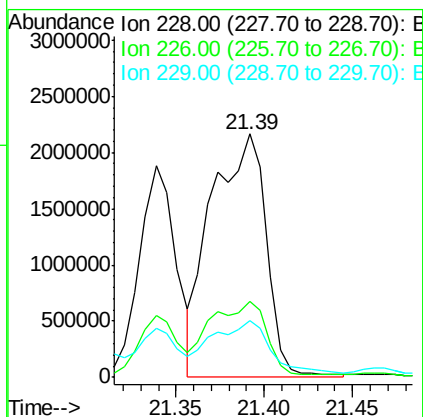
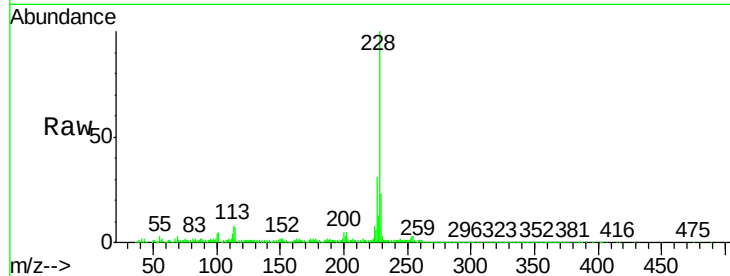
229 23.2 15.5 23.3

Manual Integrations

APPROVED

umangi

9/8/2016 12:54:31 PM



#85

Benzo(b)fluoranthene

Concen: 47.02 ng/ul

RT: 22.95 min Scan# 3462

Delta R.T. 0.02 min

Lab File: BM007451.D

Acq: 07 Sep 2016 22:30

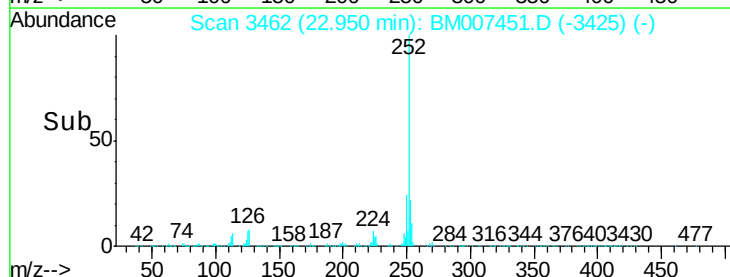
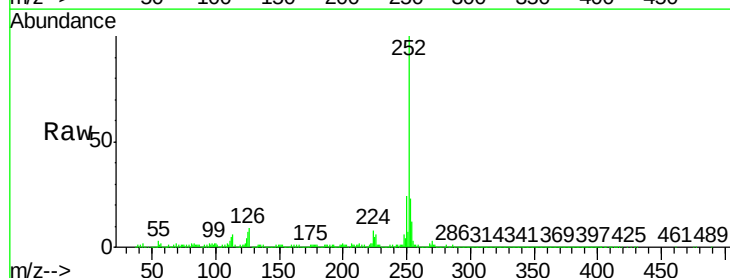
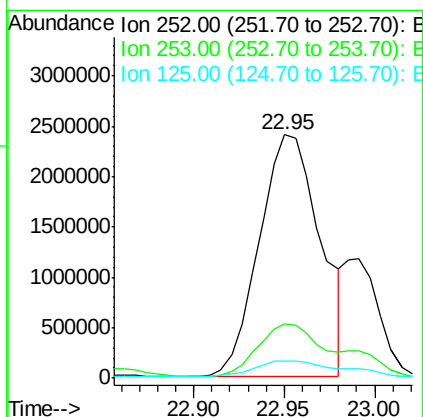
Tgt Ion:252 Resp: 5640118

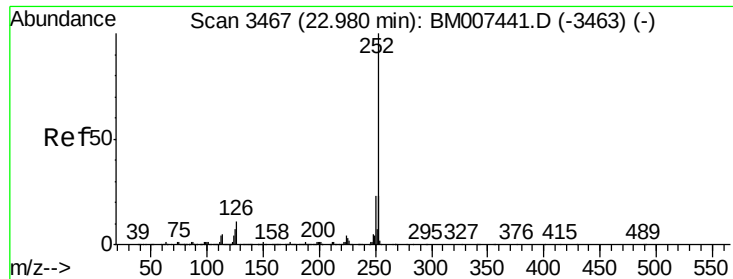
Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

125 7.2 5.8 8.8





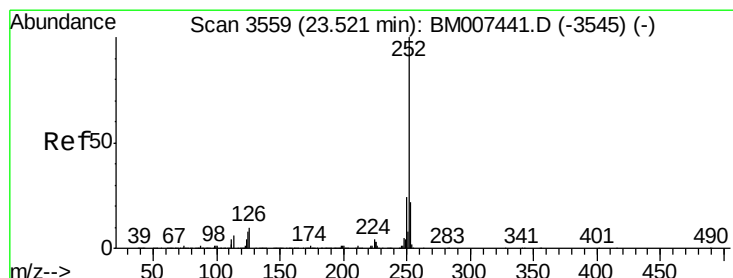
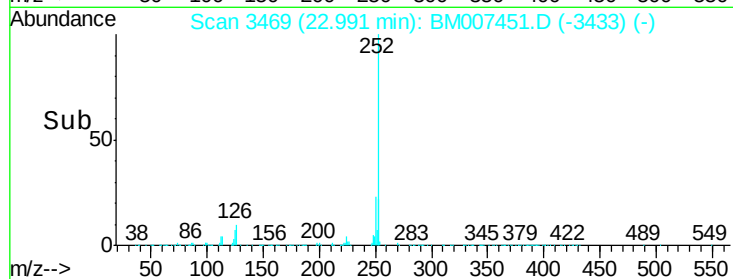
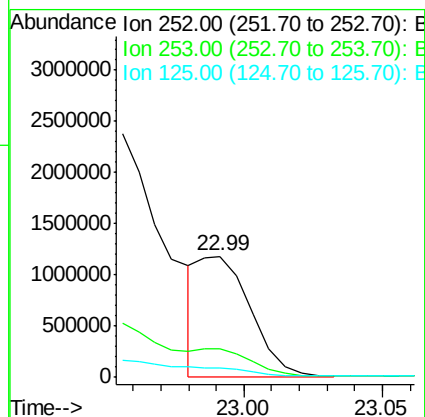
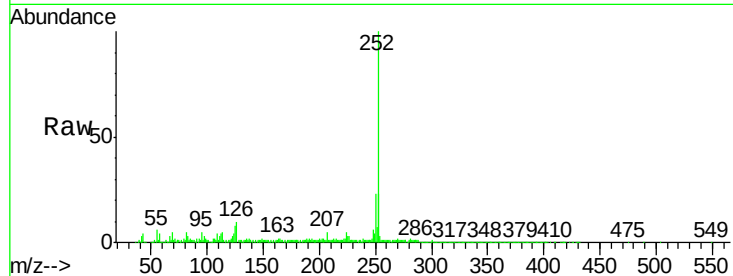
#86
Benzo(k)fluoranthene
Concen: 14.10 ng/ul m
RT: 22.99 min Scan# 3469
Delta R.T. 0.01 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Instrument :
BNA_M
ClientSampleId :
BD3A3

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	7.9	5.7	8.5

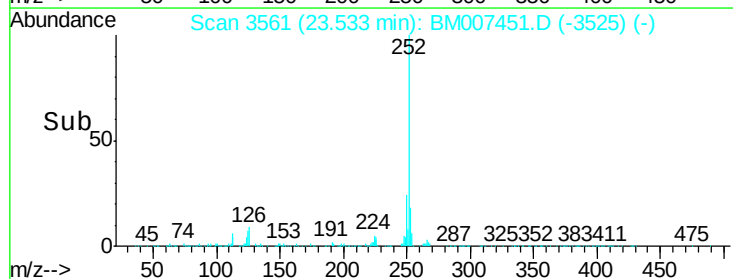
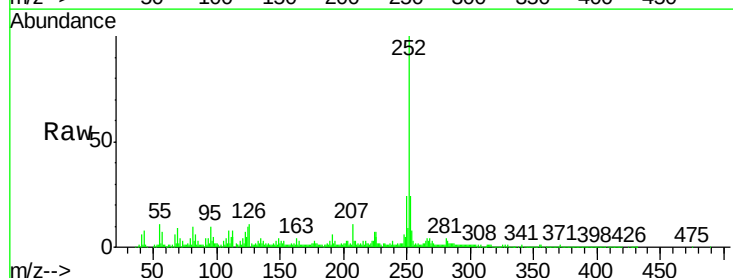
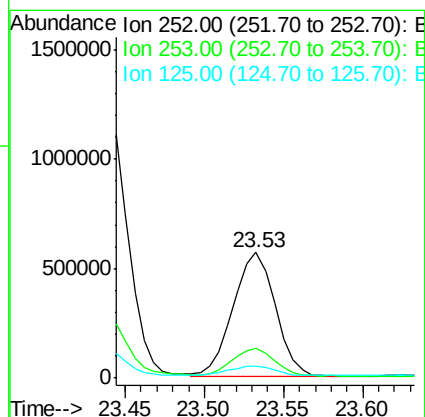
Manual Integrations
APPROVED

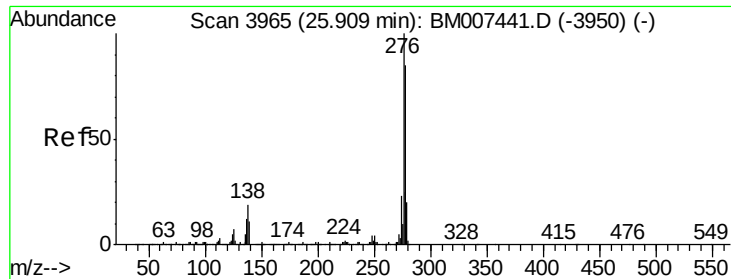
umangi
9/8/2016 12:54:31 PM



#88
Benzo(a)pyrene
Concen: 9.10 ng/ul
RT: 23.53 min Scan# 3561
Delta R.T. 0.01 min
Lab File: BM007451.D
Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.7	26.5
125	10.0	6.6	9.8





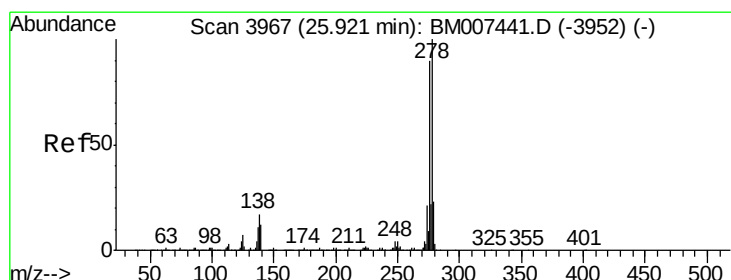
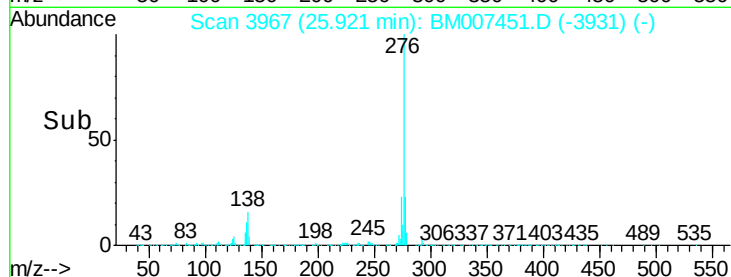
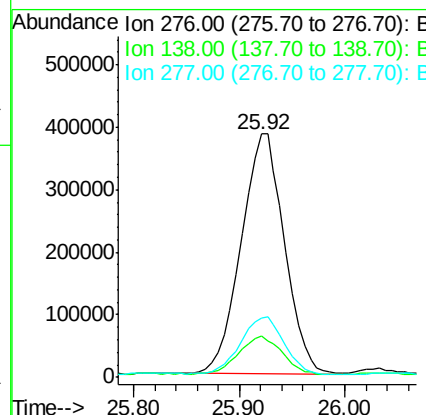
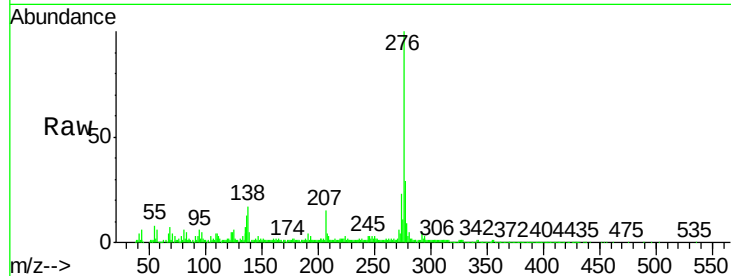
#89
 Indeno(1,2,3-cd)pyrene
 Concen: 7.74 ng/ul
 RT: 25.92 min Scan# 3967
 Delta R.T. 0.01 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Instrument :
 BNA_M
 ClientSampleId :
 BD3A3

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.0	13.9	20.9
277	24.3	20.1	30.1

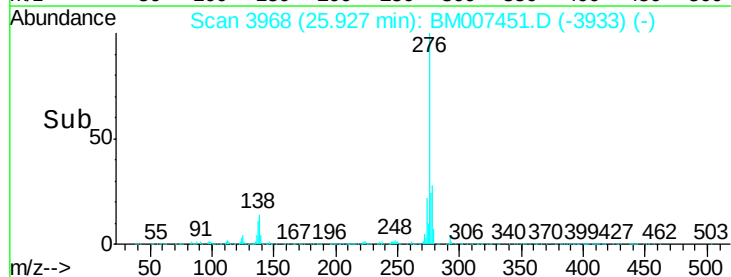
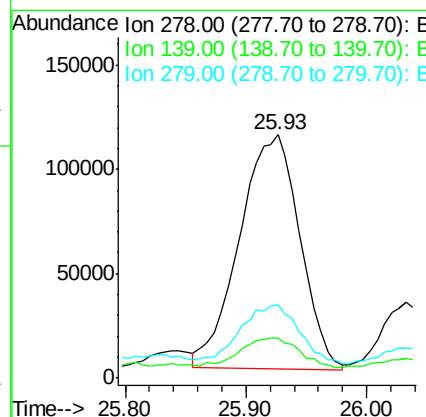
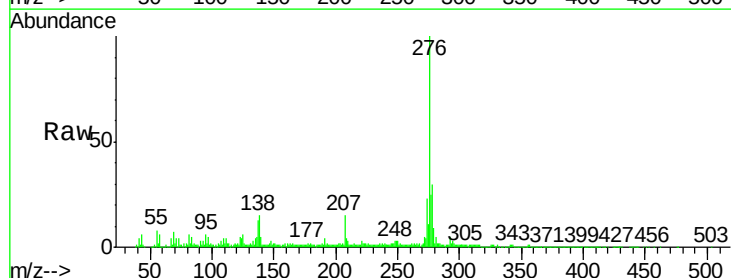
Manual Integrations
 APPROVED

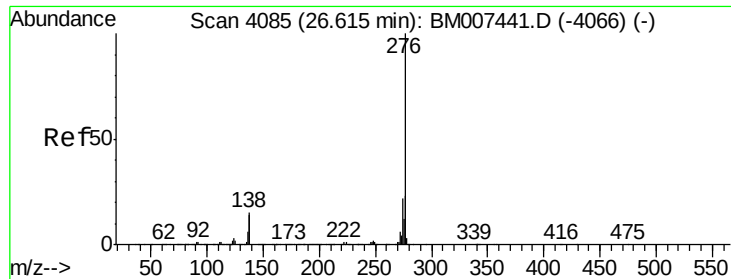
umangi
 9/8/2016 12:54:31 PM



#90
 Dibenzo(a,h)anthracene
 Concen: 3.33 ng/ul
 RT: 25.93 min Scan# 3968
 Delta R.T. 0.01 min
 Lab File: BM007451.D
 Acq: 07 Sep 2016 22:30

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.7	9.5	14.3#
279	30.3	19.1	28.7#





#91

Benzo(g,h,i)perylene

Concen: 5.69 ng/ul

RT: 26.63 min Scan# 4088

Delta R.T. 0.02 min

Lab File: BM007451.D

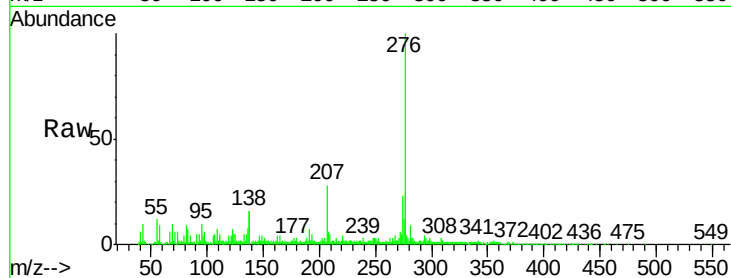
Acq: 07 Sep 2016 22:30

Instrument :

BNA_M

ClientSampleId :

BD3A3



Tgt	Ion	Ratio	Lower	Upper
276	100			
138	16.4	13.5	20.3	
277	23.7	19.3	28.9	

Manual Integrations
APPROVED

umangi
9/8/2016 12:54:31 PM

