

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080716\
 Data File : BM006976.D
 Acq On : 08 Aug 2016 04:01
 Operator : UM/SJ
 Sample : H4302-03
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DA0G7

Manual Integrations
 APPROVED

sohil
 8/8/2016 7:08:51 PM

Quant Time: Aug 08 15:51:19 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 08 15:12:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	295066	20.00	ng/ul	0.00
7) Naphthalene-d8	10.32	136	1353775	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.21	164	810347	20.00	ng/ul	0.00
23) Phenanthrene-d10	16.97	188	1825179	20.00	ng/ul	0.00
29) Chrysene-d12	21.17	240	1525873	20.00	ng/ul	0.00
34) Perylene-d12	23.36	264	1394882	20.00	ng/ul	0.00

System Monitoring Compounds

2) 1,4-Dioxane-d8	3.09	96	9992	1.55	ng/uL	0.00
3) Phenol-d5	6.76	99	526197	18.81	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	6.90	67	372727	21.25	ng/ul	0.00
5) 2-Chlorophenol-d4	7.09	132	424981	21.28	ng/ul	0.00
6) 4-Methylphenol-d8	8.29	113	367512	15.74	ng/ul	0.00
8) Nitrobenzene-d5	8.71	128	229769	22.85	ng/ul	0.00
9) 2-Nitrophenol-d4	9.43	143	271819	22.57	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	9.97	165	468619	20.53	ng/ul	0.00
12) 4-Chloroaniline-d4	10.49	131	554558	20.35	ng/ul	0.00
16) Dimethylphthalate-d6	13.63	166	1622740	22.76	ng/ul	0.00
17) Acenaphthylene-d8	13.90	160	1973715	23.93	ng/ul	0.00
20) 4-Nitrophenol-d4	14.50	143	184798	17.87	ng/ul	0.00
21) Fluorene-d10	15.21	176	1398049	23.06	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.37	200	140073	18.59	ng/ul	0.00
26) Anthracene-d10	17.06	188	2100787	23.82	ng/ul	0.00
30) Pyrene-d10	19.37	212	2226141	30.61	ng/ul	0.00
37) Benzo(a)pyrene-d12	23.23	264	1595510	24.02	ng/ul	0.00

Target Compounds

						Qvalue
11) Naphthalene	10.37	128	124950	1.80	ng/ul	99
19) Acenaphthene	14.27	153	127585	2.26	ng/ul	100
22) Fluorene	15.26	166	79318	1.11	ng/ul	97
25) Phenanthrene	17.01	178	1621857	15.89	ng/ul	99
27) Anthracene	17.10	178	262702	2.46	ng/ul	99
28) Fluoranthene	19.04	202	2588856	20.84	ng/ul	98
31) Pyrene	19.40	202	2052725	21.65	ng/ul	98
32) Benzo(a)anthracene	21.16	228	899774	9.94	ng/ul	98
33) Chrysene	21.22	228	857498	10.76	ng/ul	97
35) Benzo(b)fluoranthene	22.71	252	1250333	13.74	ng/ul	98
36) Benzo(k)fluoranthene	22.75	252	418007m	4.75	ng/ul	
38) Benzo(a)pyrene	23.27	252	862646	10.45	ng/ul	99
39) Indeno(1,2,3-cd)pyrene	25.54	276	694696	8.30	ng/ul#	96
40) Dibenzo(a,h)anthracene	25.54	278	180026m	2.55	ng/ul	
41) Benzo(g,h,i)perylene	26.21	276	689817	10.46	ng/ul	99

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

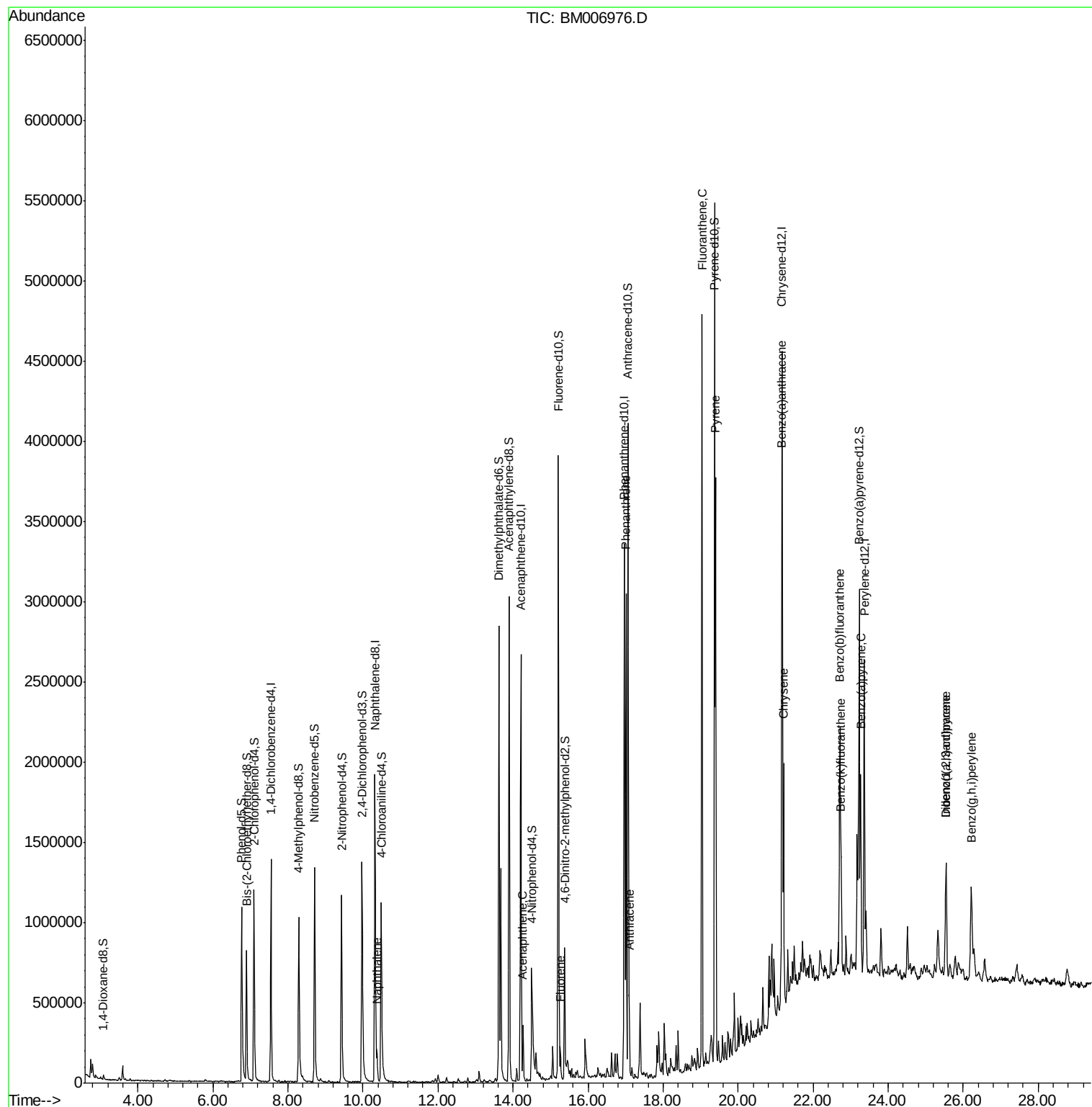
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080716\
Data File : BM006976.D
Acq On : 08 Aug 2016 04:01
Operator : UM/SJ
Sample : H4302-03
Misc :
ALS Vial : 39 Sample Multiplier: 1

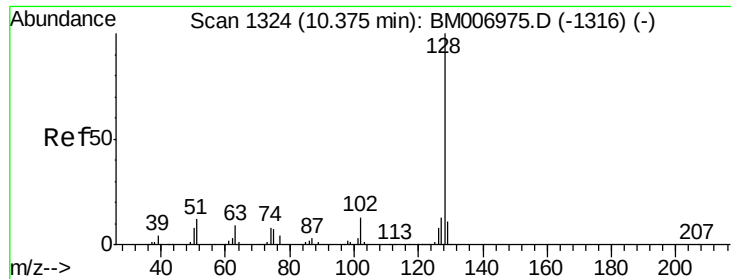
Instrument :
BNA_M
ClientSampleId :
DA0G7

Quant Time: Aug 08 15:51:19 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080616.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Aug 08 15:12:48 2016
Response via : Initial Calibration

Manual Integrations
APPROVED

sohil
8/8/2016 7:08:51 PM





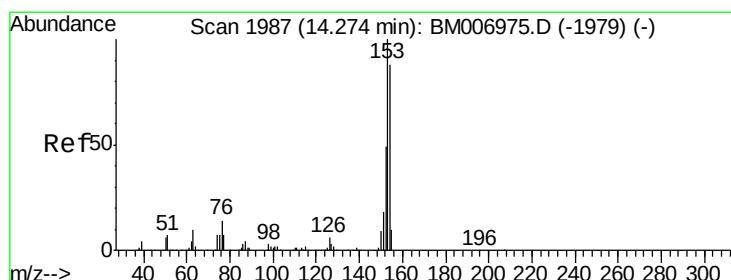
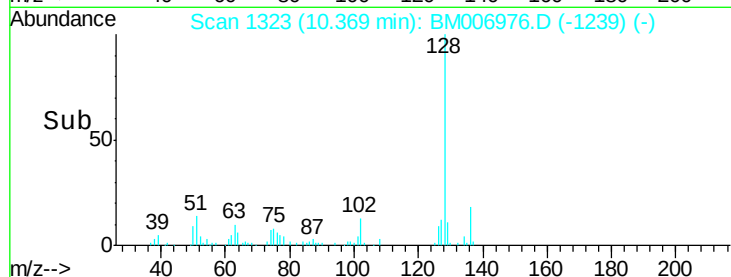
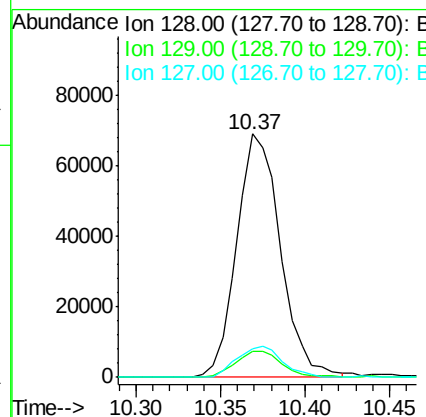
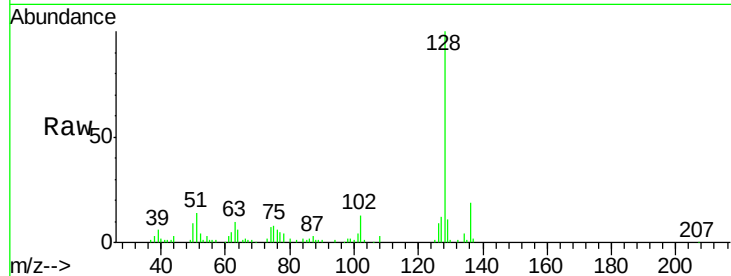
#11
Naphthalene
Concen: 1.80 ng/ul
RT: 10.37 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BM006976.D
Acq: 08 Aug 2016 04:01

Instrument :
BNA_M
ClientSampleId :
DA0G7

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	10.7	8.6	13.0
127	11.7	9.8	14.8

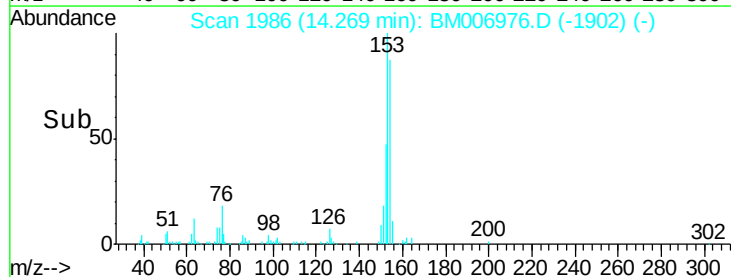
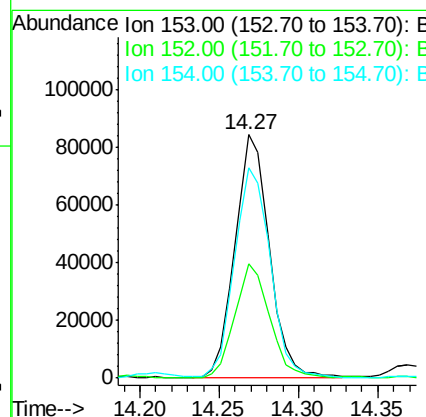
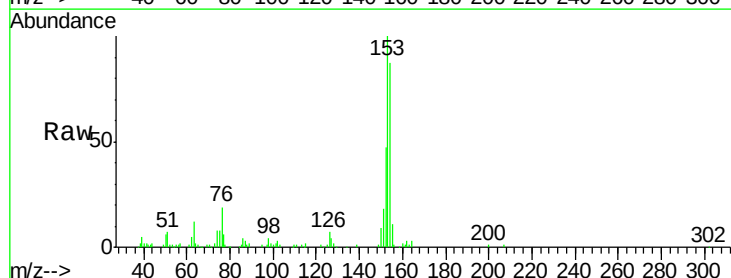
Manual Integrations
APPROVED

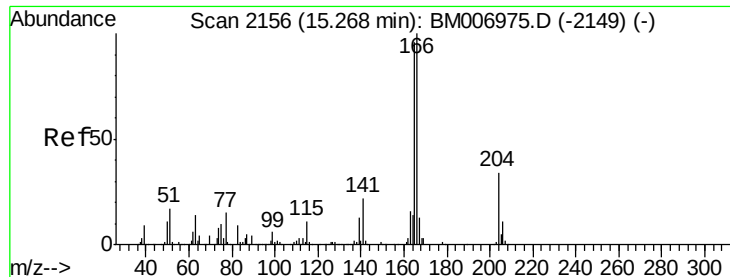
sohil
8/8/2016 7:08:51 PM



#19
Acenaphthene
Concen: 2.26 ng/ul
RT: 14.27 min Scan# 1986
Delta R.T. -0.01 min
Lab File: BM006976.D
Acq: 08 Aug 2016 04:01

Tgt Ion	Ratio	Resp Lower	Resp Upper
153	100		
152	46.7	37.0	55.6
154	86.6	69.3	103.9





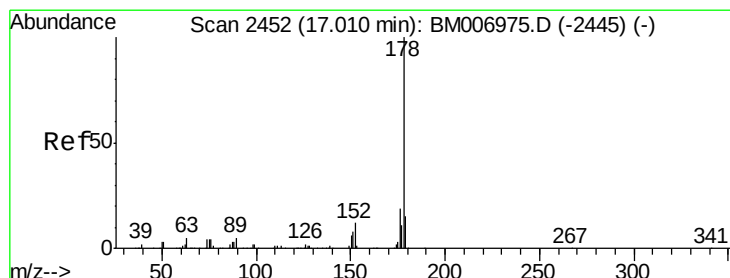
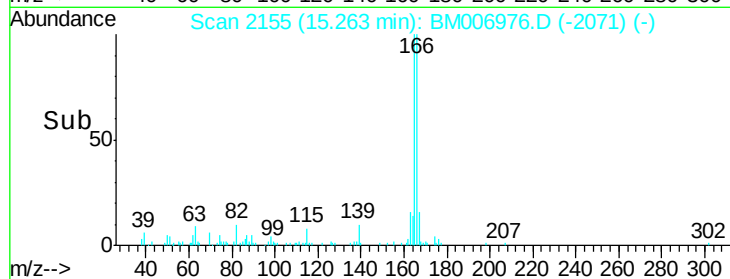
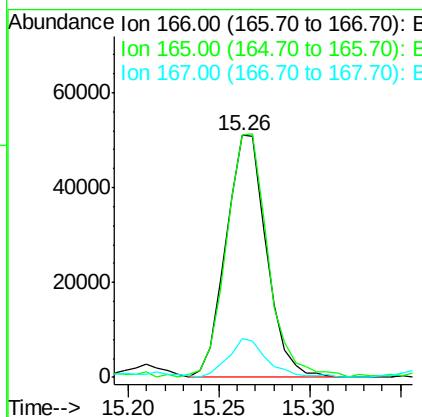
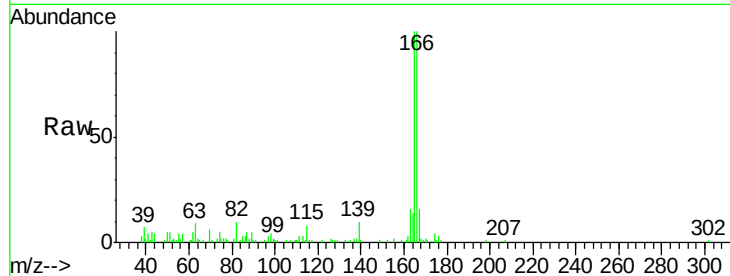
#22
 Fluorene
 Concen: 1.11 ng/ul
 RT: 15.26 min Scan# 2155
 Delta R.T. -0.01 min
 Lab File: BM006976.D
 Acq: 08 Aug 2016 04:01

Instrument :
 BNA_M
 ClientSampleId :
 DA0G7

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.0	78.2	117.4
167	16.0	10.7	16.1

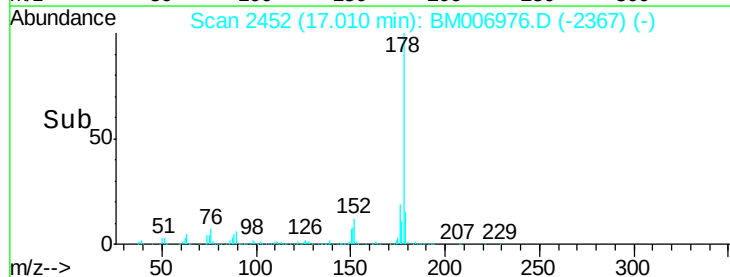
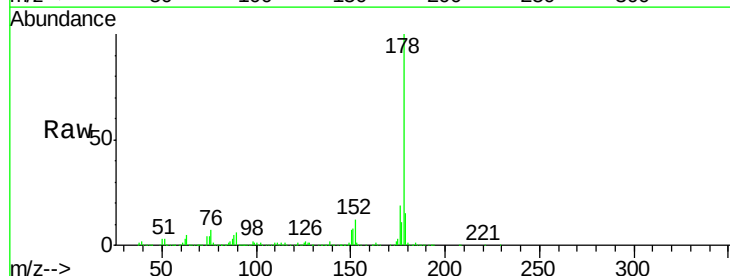
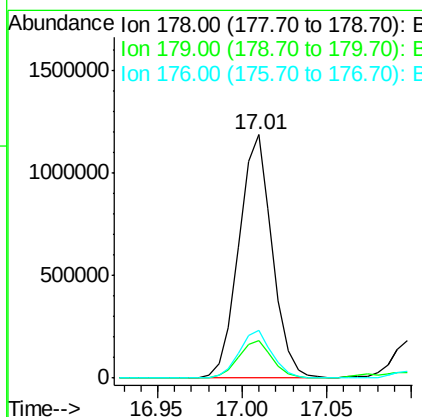
Manual Integrations
 APPROVED

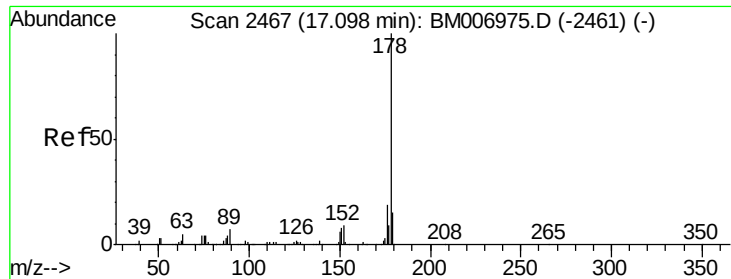
sohil
 8/8/2016 7:08:51 PM



#25
 Phenanthrene
 Concen: 15.89 ng/ul
 RT: 17.01 min Scan# 2452
 Delta R.T. 0.00 min
 Lab File: BM006976.D
 Acq: 08 Aug 2016 04:01

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.5	15.0	22.4





#27

Anthracene

Concen: 2.46 ng/ul

RT: 17.10 min Scan# 2467

Delta R.T. 0.00 min

Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Instrument :

BNA_M

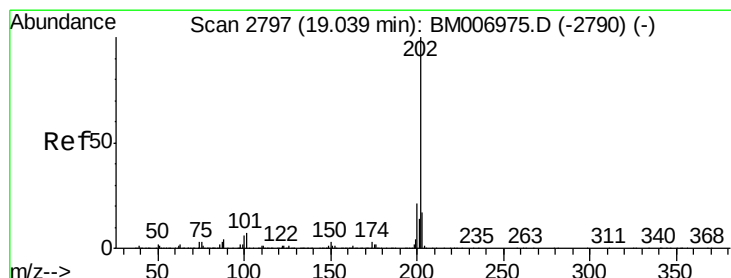
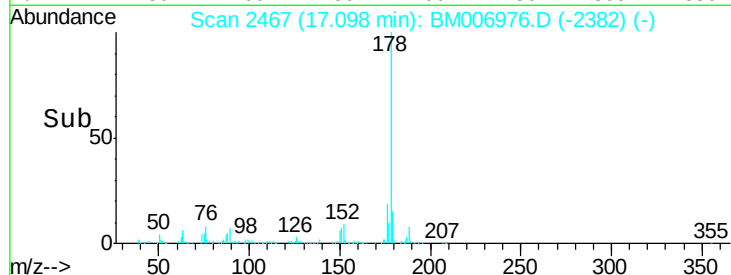
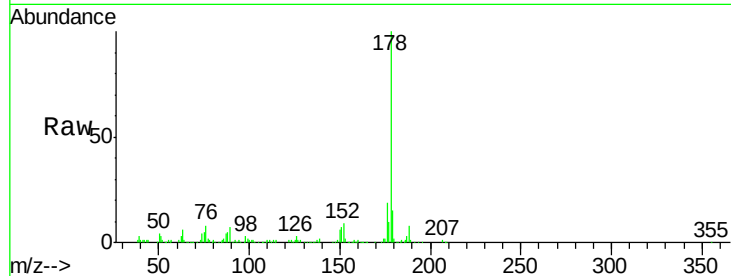
ClientSampleId :

DA0G7

Tgt Ion:	178	Resp:	262702
Ion Ratio	Lower	Upper	
178	100		
179	15.4	12.5	18.7
176	18.9	15.4	23.0

Manual Integrations
APPROVED

sohil
8/8/2016 7:08:51 PM



#28

Fluoranthene

Concen: 20.84 ng/ul

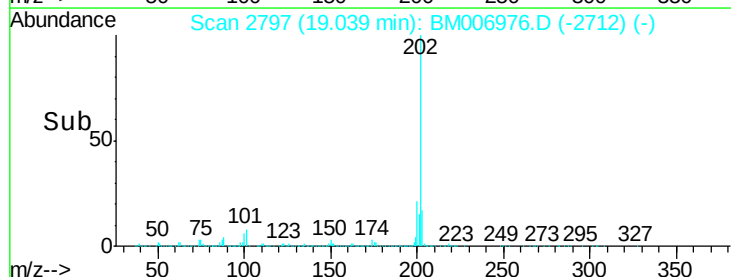
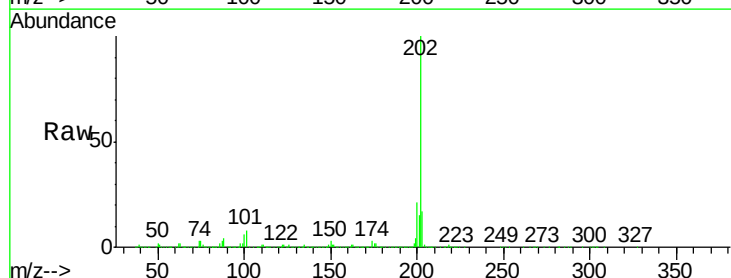
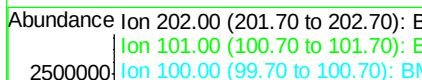
RT: 19.04 min Scan# 2797

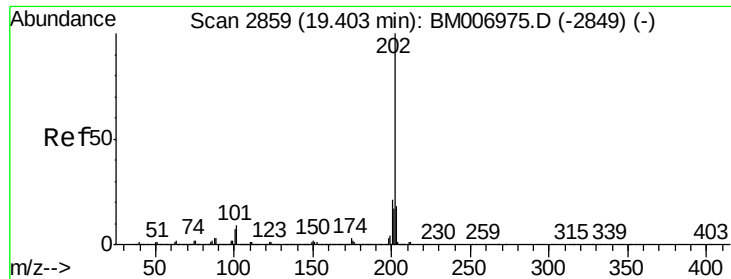
Delta R.T. 0.00 min

Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Tgt Ion:	202	Resp:	2588856
Ion Ratio	Lower	Upper	
202	100		
101	7.8	5.6	8.4
100	6.0	4.2	6.4





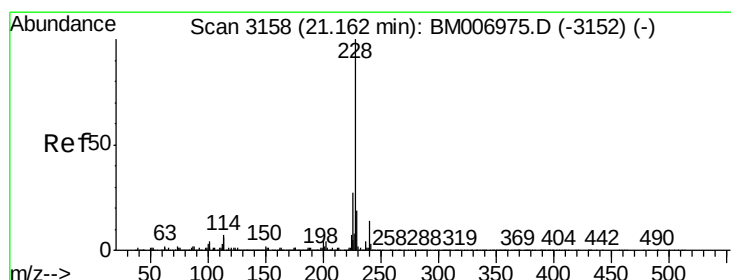
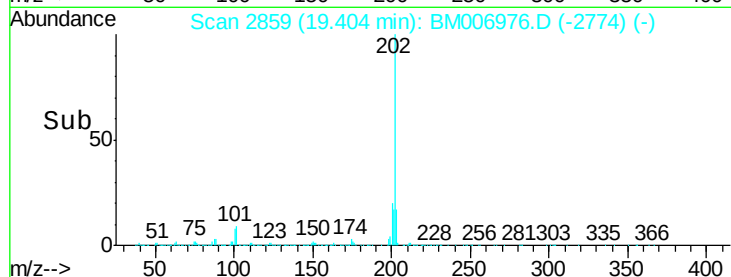
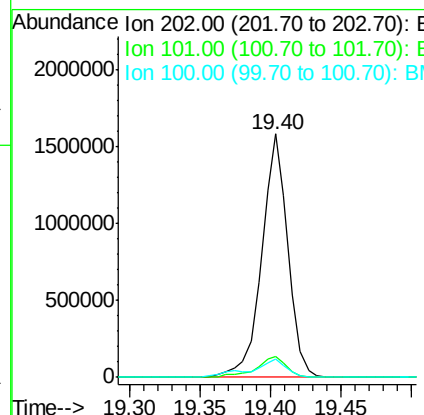
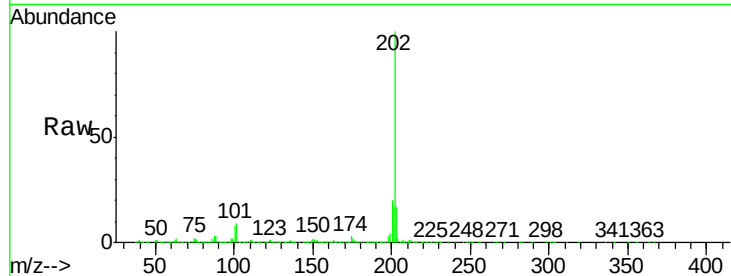
#31
 Pyrene
 Concen: 21.65 ng/ul
 RT: 19.40 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: BM006976.D
 Acq: 08 Aug 2016 04:01

Instrument :
 BNA_M
 ClientSampleId :
 DA0G7

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2052725		
101	8.8		6.4	9.6
100	7.5		5.4	8.2

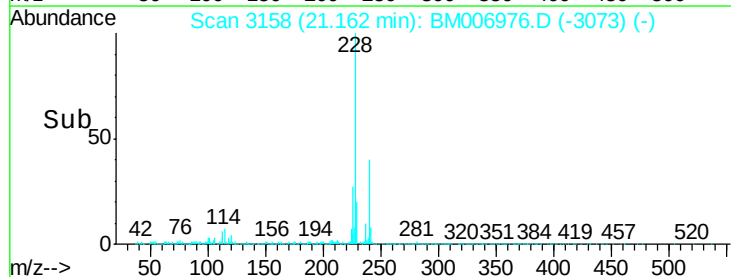
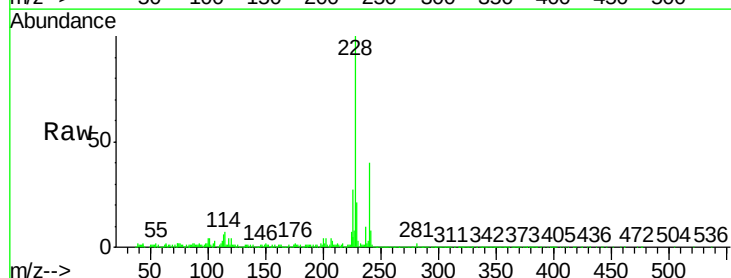
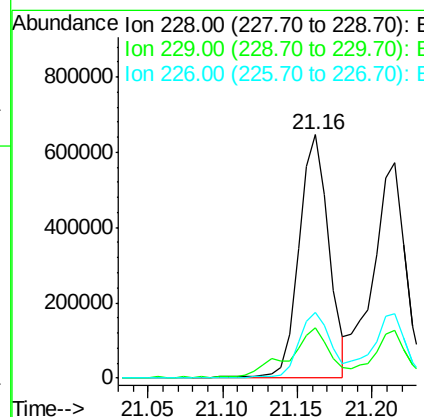
Manual Integrations
 APPROVED

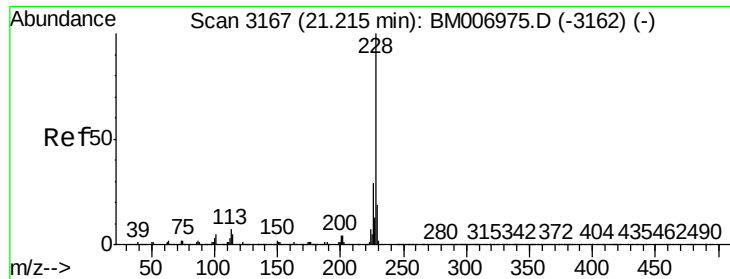
sohil
 8/8/2016 7:08:51 PM



#32
 Benzo(a)anthracene
 Concen: 9.94 ng/ul
 RT: 21.16 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: BM006976.D
 Acq: 08 Aug 2016 04:01

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	899774		
229	20.9		15.2	22.8
226	27.1		21.3	31.9





#33

Chrysene

Concen: 10.76 ng/ul

RT: 21.22 min Scan# 3167

Delta R.T. 0.00 min

Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Instrument :

BNA_M

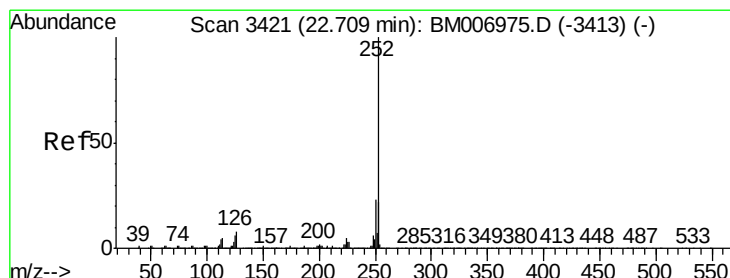
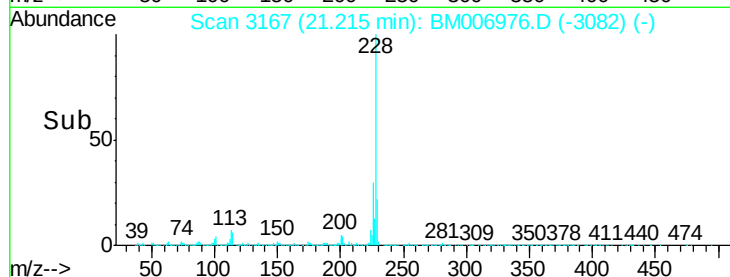
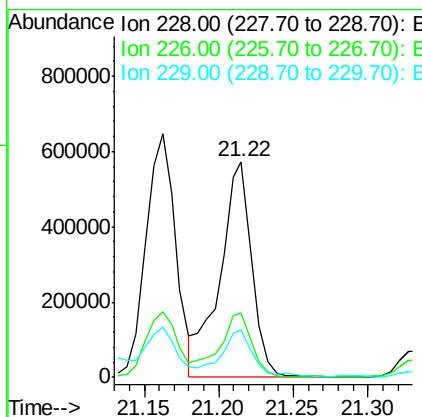
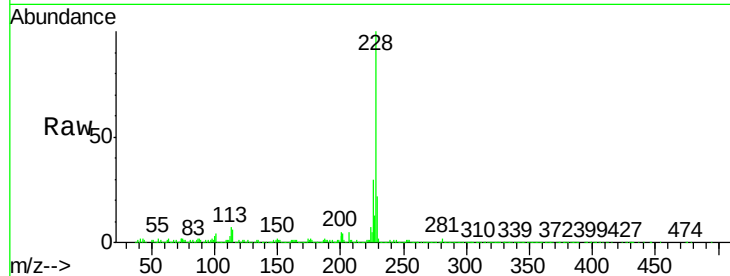
ClientSampleId :

DA0G7

Tgt Ion:	228	Resp:	857498
Ion Ratio		Lower	Upper
228	100		
226	29.9	23.8	35.6
229	22.2	15.1	22.7

Manual Integrations
APPROVED

sohil
8/8/2016 7:08:51 PM



#35

Benzo(b)fluoranthene

Concen: 13.74 ng/ul

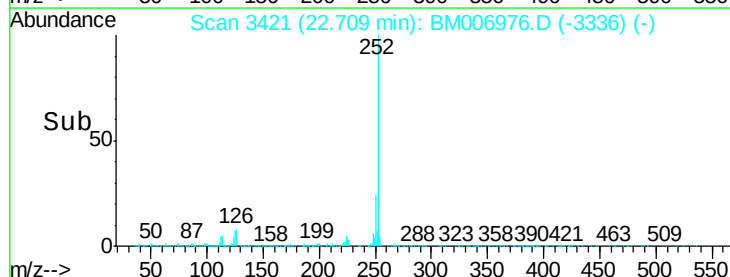
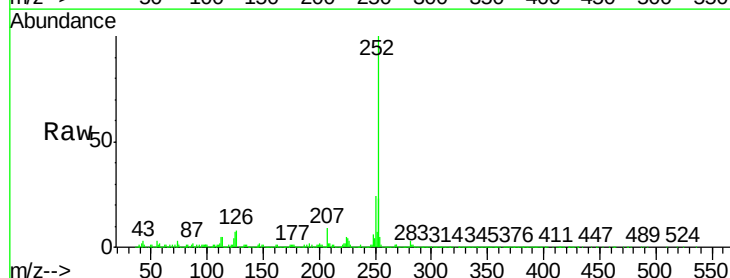
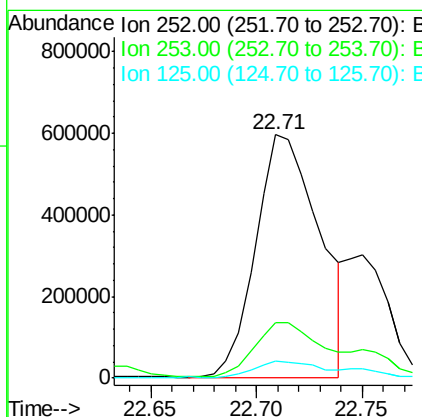
RT: 22.71 min Scan# 3421

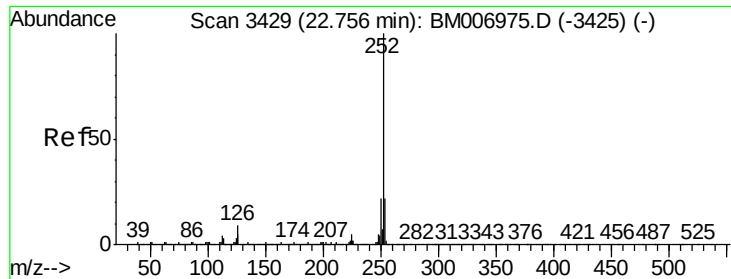
Delta R.T. 0.00 min

Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Tgt Ion:	252	Resp:	1250333
Ion Ratio		Lower	Upper
252	100		
253	22.7	17.6	26.4
125	7.2	5.1	7.7





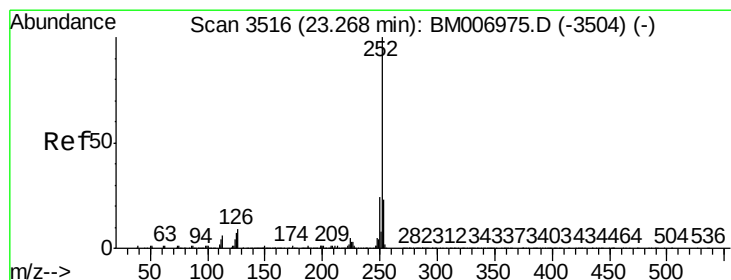
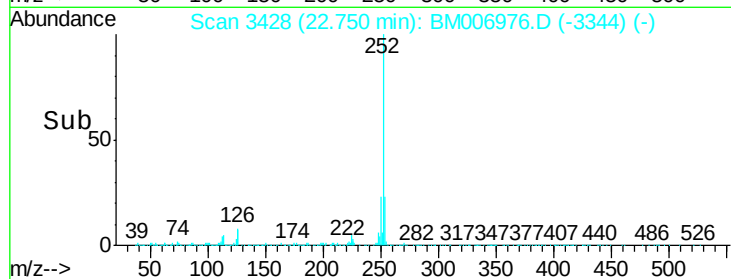
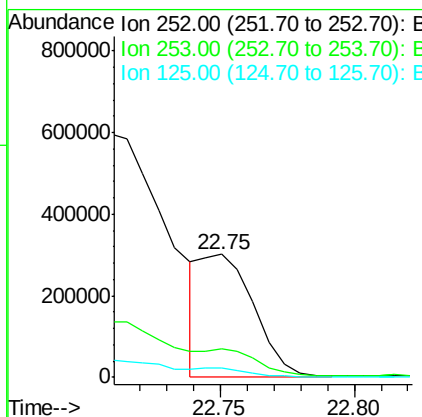
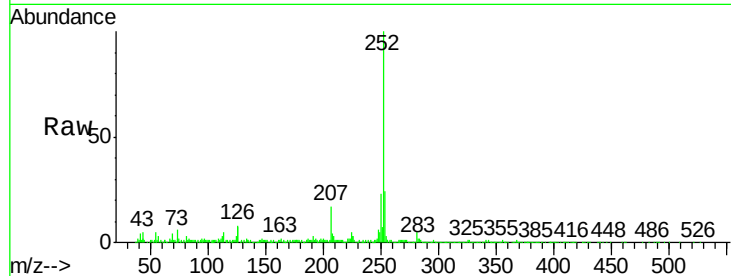
#36
Benzo(k)fluoranthene
Concen: 4.75 ng/ul m
RT: 22.75 min Scan# 3428
Delta R.T. -0.01 min
Lab File: BM006976.D
Acq: 08 Aug 2016 04:01

Instrument :
BNA_M
ClientSampleId :
DA0G7

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.2	25.8
125	7.2	5.1	7.7

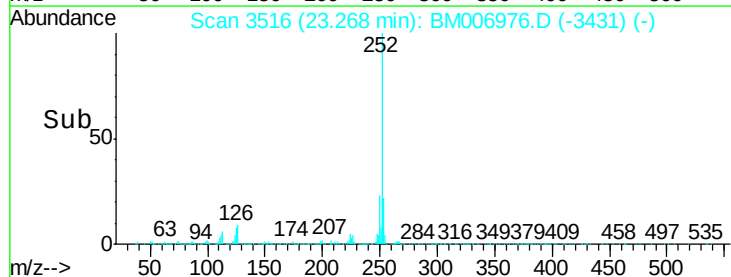
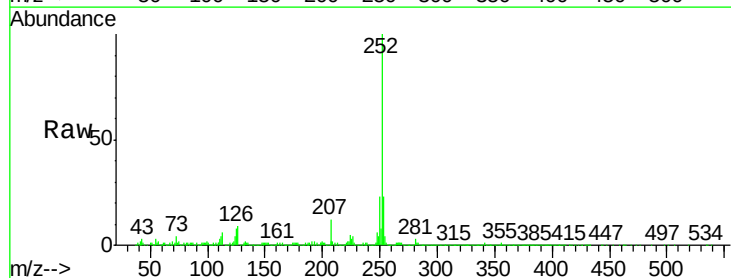
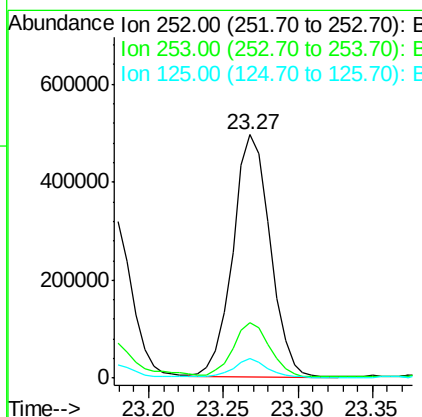
Manual Integrations
APPROVED

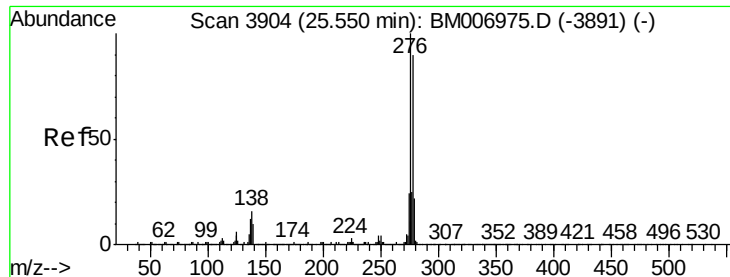
sohil
8/8/2016 7:08:51 PM



#38
Benzo(a)pyrene
Concen: 10.45 ng/ul
RT: 23.27 min Scan# 3516
Delta R.T. 0.00 min
Lab File: BM006976.D
Acq: 08 Aug 2016 04:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	7.8	5.6	8.4





#39

Indeno(1,2,3-cd)pyrene

Concen: 8.30 ng/ul

RT: 25.54 min Scan# 3903

Delta R.T. -0.01 min

Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Instrument :

BNA_M

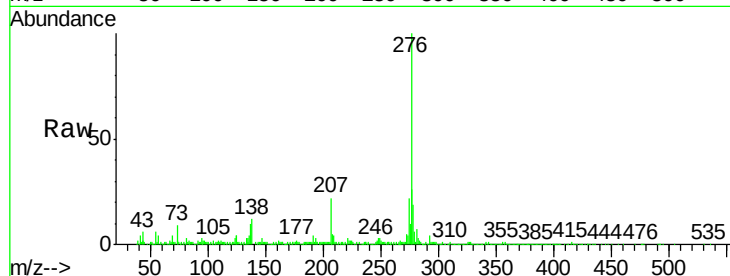
ClientSampleId :

DA0G7

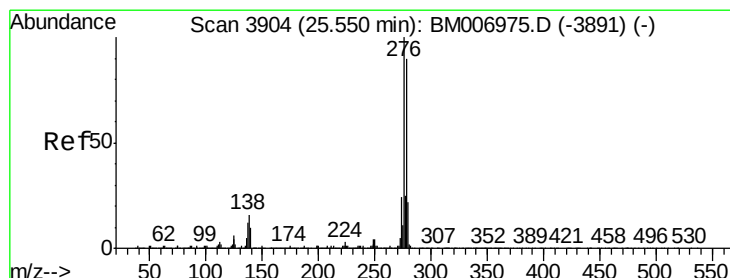
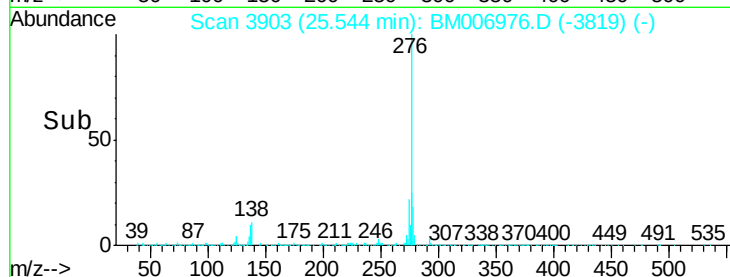
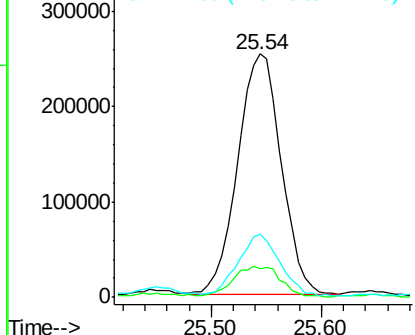
Tgt Ion:	276	Resp:	694696
Ion Ratio		Lower	Upper
276	100		
138	11.9	12.6	19.0#
277	25.8	20.3	30.5

Manual Integrations
APPROVED

sohil
8/8/2016 7:08:51 PM



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#40

Dibenzo(a,h)anthracene

Concen: 2.55 ng/ul m

RT: 25.54 min Scan# 3902

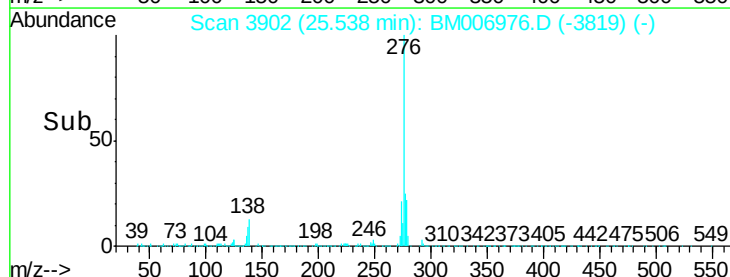
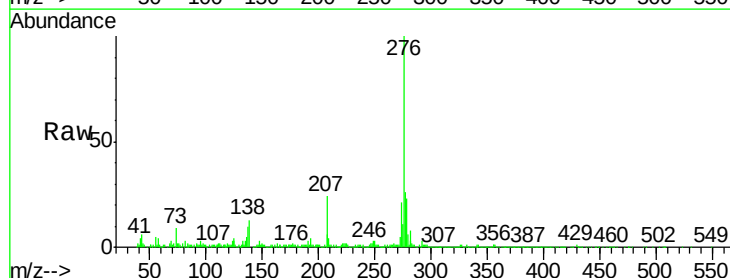
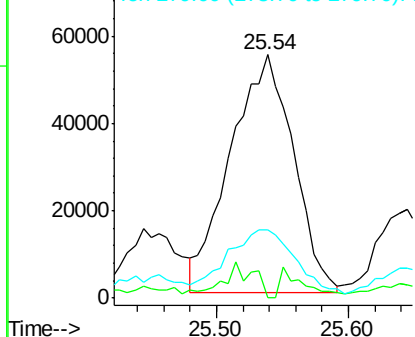
Delta R.T. -0.01 min

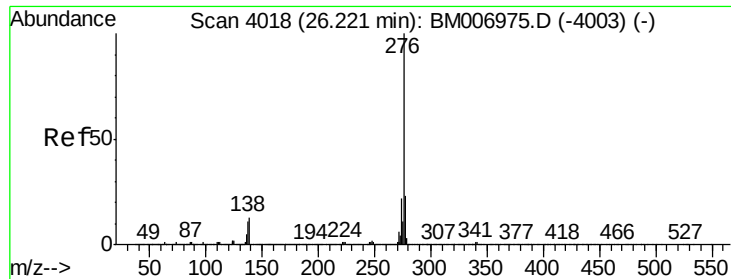
Lab File: BM006976.D

Acq: 08 Aug 2016 04:01

Tgt Ion:	278	Resp:	180026
Ion Ratio		Lower	Upper
278	100		
139	0.0	7.5	11.3#
279	28.1	19.0	28.4

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#41
 Benzo(g,h,i)perylene
 Concen: 10.46 ng/ul
 RT: 26.21 min Scan# 4017
 Delta R.T. -0.01 min
 Lab File: BM006976.D
 Acq: 08 Aug 2016 04:01

Instrument :
 BNA_M
 ClientSampleId :
 DA0G7

Tgt	Ion	276	Resp:	689817
	Ratio	100	Lower	Upper
	276	100		
	138	13.6	10.9	16.3
	277	23.8	18.6	27.8

Manual Integrations
 APPROVED

sohil
 8/8/2016 7:08:51 PM

