

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062616\
 Data File : BM006061.D
 Acq On : 27 Jun 2016 04:11
 Operator : UM/SJ
 Sample : H3670-21 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9YA3

Manual Integrations
 APPROVED

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 6/27/2016 8:06:29 PM

Quant Time: Jun 27 06:59:44 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062516.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jun 27 05:15:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	281470	20.00	ng/ul	0.00
7) Naphthalene-d8	10.44	136	1339055	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.31	164	782053	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.06	188	1767580	20.00	ng/ul	0.01
29) Chrysene-d12	21.26	240	1347486	20.00	ng/ul	0.01
34) Perylene-d12	23.48	264	1302364	20.00	ng/ul	0.01

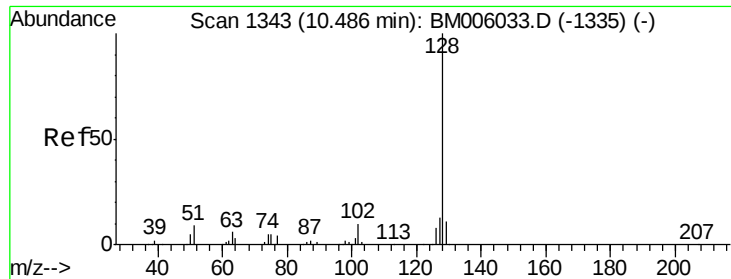
System Monitoring Compounds

2) 1,4-Dioxane-d8	3.17	96	5570	0.88	ng/uL	0.00
3) Phenol-d5	6.83	99	256123	8.65	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	7.00	67	166344	10.10	ng/ul	0.00
5) 2-Chlorophenol-d4	7.19	132	200678	9.73	ng/ul	0.00
6) 4-Methylphenol-d8	8.36	113	170873	6.84	ng/ul	0.00
8) Nitrobenzene-d5	8.81	128	106343	10.43	ng/ul	0.00
9) 2-Nitrophenol-d4	9.53	143	111215	9.80	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.06	165	215805	9.92	ng/ul	0.00
12) 4-Chloroaniline-d4	10.58	131	202852	8.59	ng/ul	0.00
16) Dimethylphthalate-d6	13.72	166	684788	10.23	ng/ul	0.00
17) Acenaphthylene-d8	14.00	160	878336	11.31	ng/ul	0.00
20) 4-Nitrophenol-d4	14.52	143	88623	6.21	ng/ul	0.01
21) Fluorene-d10	15.30	176	614854	10.76	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.43	200	19961	2.03	ng/ul	0.01
26) Anthracene-d10	17.16	188	934608	11.51	ng/ul	0.00
30) Pyrene-d10	19.46	212	910493	15.42	ng/ul	0.02
37) Benzo(a)pyrene-d12	23.34	264	673455	11.45	ng/ul	0.02

Target Compounds

						Qvalue
11) Naphthalene	10.49	128	216682	3.24	ng/ul	99
13) 2-Methylnaphthalene	12.11	142	64129	1.19	ng/ul	95
14) 1-Methylnaphthalene	12.33	142	55029	1.07	ng/ul	97
18) Acenaphthylene	14.03	152	367009	4.48	ng/ul	99
19) Acenaphthene	14.37	153	268824	5.17	ng/ul	98
22) Fluorene	15.36	166	314212	5.02	ng/ul	96
25) Phenanthrene	17.11	178	5944061	62.52	ng/ul	99
27) Anthracene	17.19	178	1465899	14.93	ng/ul	100
28) Fluoranthene	19.13	202	8605428	70.66	ng/ul	97
31) Pyrene	19.50	202	7780533	100.86	ng/ul	96
32) Benzo(a)anthracene	21.24	228	3377690	42.20	ng/ul	96
33) Chrysene	21.30	228	3231289	44.19	ng/ul	98
35) Benzo(b)fluoranthene	22.82	252	4014201	53.05	ng/ul	97
36) Benzo(k)fluoranthene	22.86	252	1361829m	19.35	ng/ul	
38) Benzo(a)pyrene	23.39	252	2849476	39.27	ng/ul	98
39) Indeno(1,2,3-cd)pyrene	25.71	276	2425448	28.04	ng/ul	97
40) Dibenzo(a,h)anthracene	25.71	278	520635m	7.24	ng/ul	
41) Benzo(g,h,i)perylene	26.40	276	2548743	34.07	ng/ul	99

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



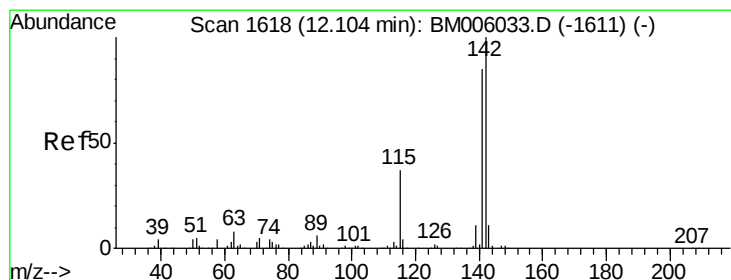
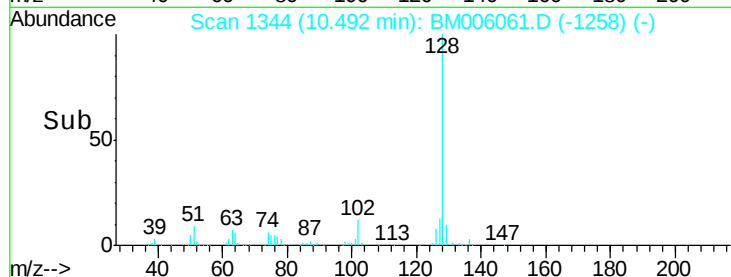
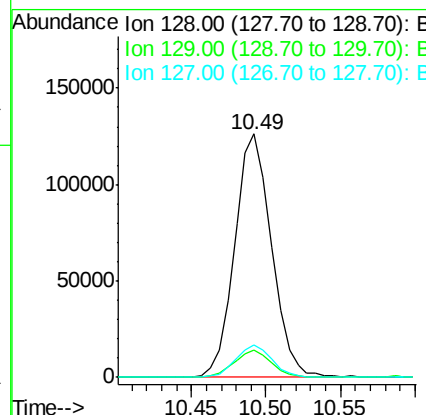
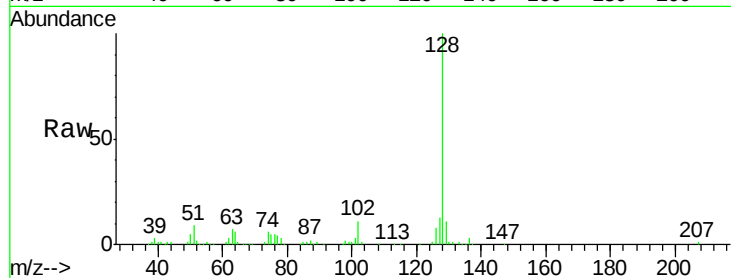
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Naphthalene
Concen: 3.24 ng/ul
RT: 10.49 min Scan# 1344
Delta R.T. 0.01 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Instrument :
BNA_M
ClientSampleId :
D9YA3

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	21682		
129	11.3	8.6	13.0	
127	13.2	10.2	15.4	

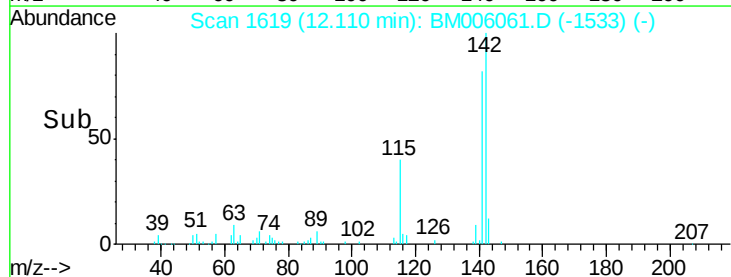
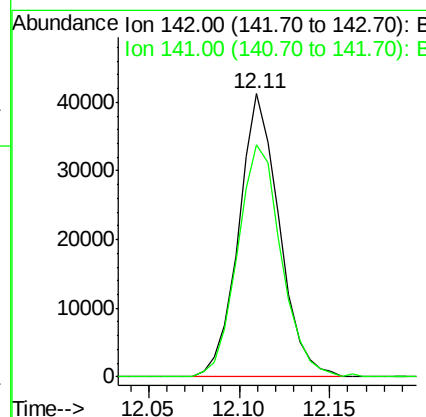
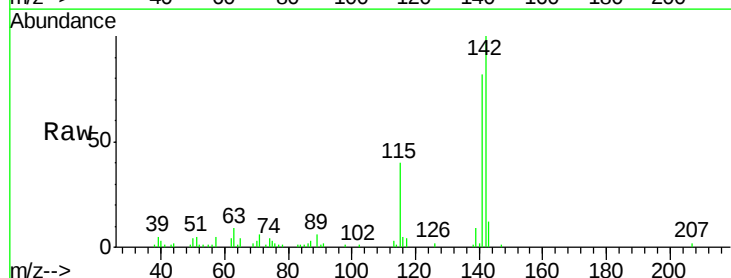
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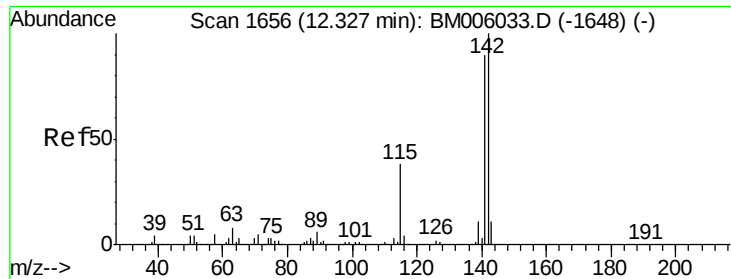
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#13
2-Methylnaphthalene
Concen: 1.19 ng/ul
RT: 12.11 min Scan# 1619
Delta R.T. 0.01 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	64129		
141	82.1	69.4	104.2	





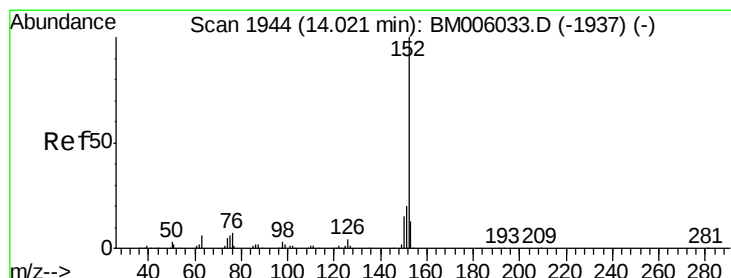
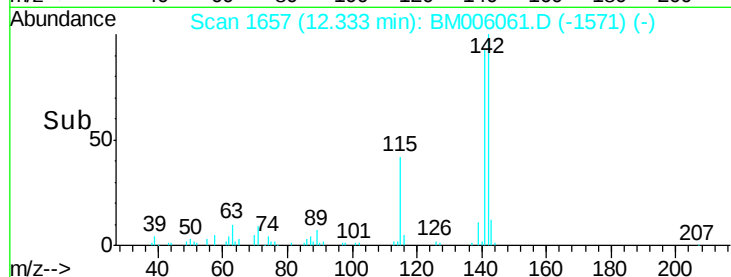
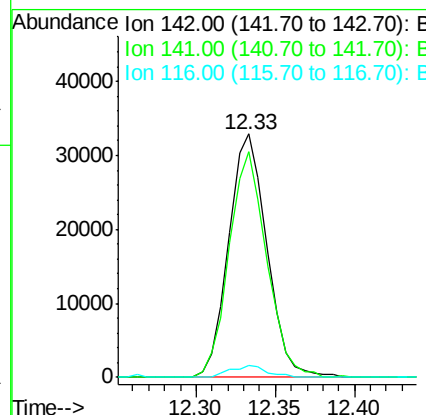
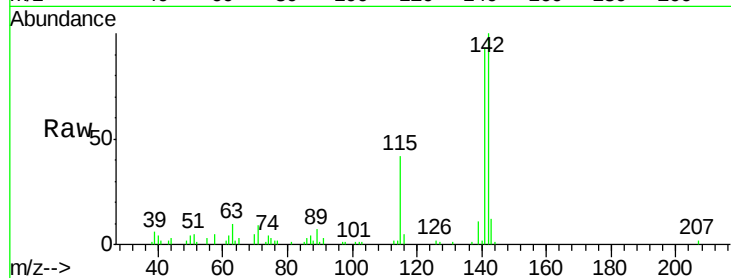
#14
1-Methylnaphthalene
Concen: 1.07 ng/ul
RT: 12.33 min Scan# 1657
Delta R.T. 0.01 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Instrument :
BNA_M
ClientSampleId :
D9YA3

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.9	72.3	108.5
116	4.9	3.4	5.0

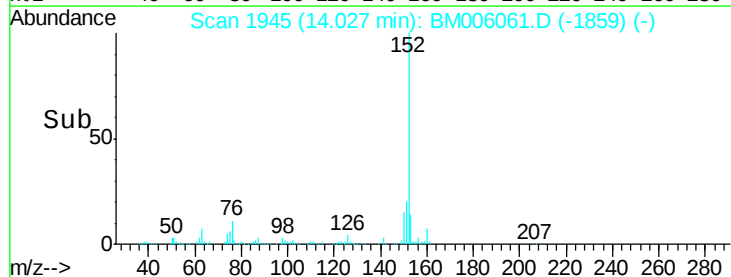
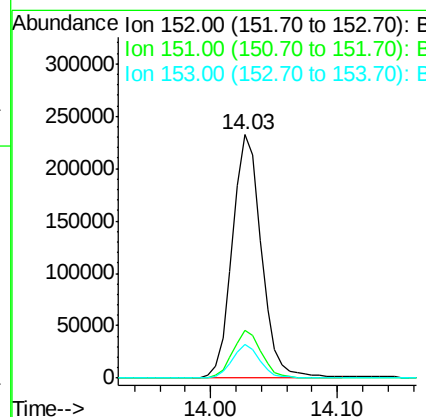
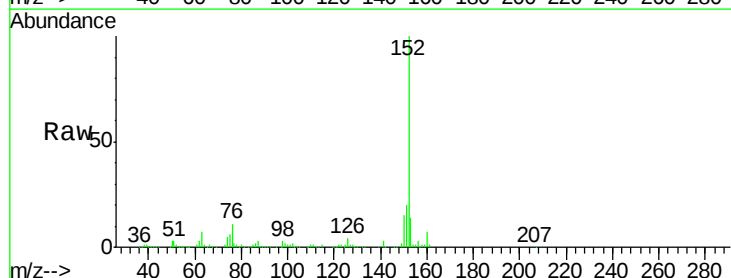
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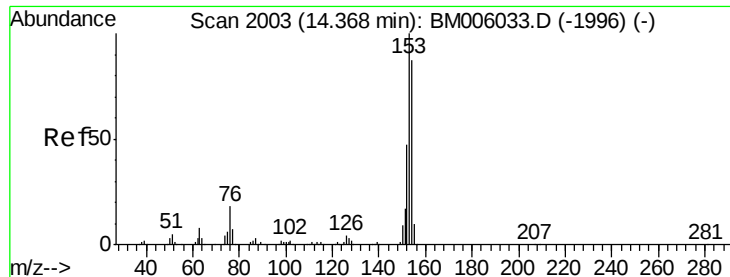
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#18
Acenaphthylene
Concen: 4.48 ng/ul
RT: 14.03 min Scan# 1945
Delta R.T. 0.01 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3
153	13.8	10.5	15.7





#19

Acenaphthene

Concen: 5.17 ng/ul

RT: 14.37 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Instrument :

BNA_M

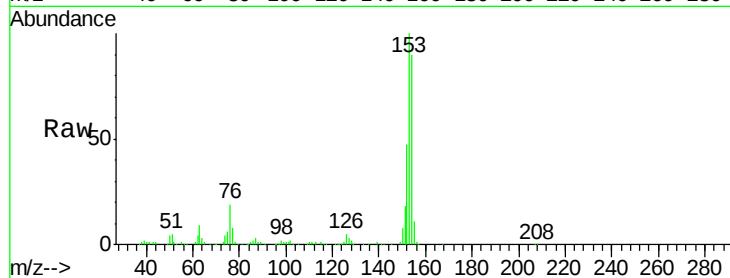
ClientSampleId :

D9YA3

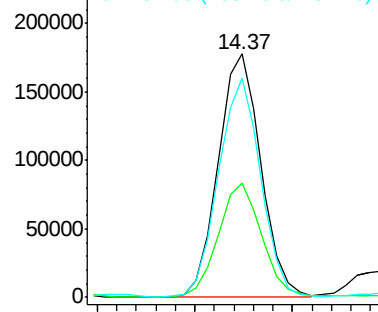
Tgt Ion:	153	Resp:	268824
Ion Ratio	Lower	Upper	
153	100		
152	46.9	38.6	57.8
154	89.9	70.7	106.1

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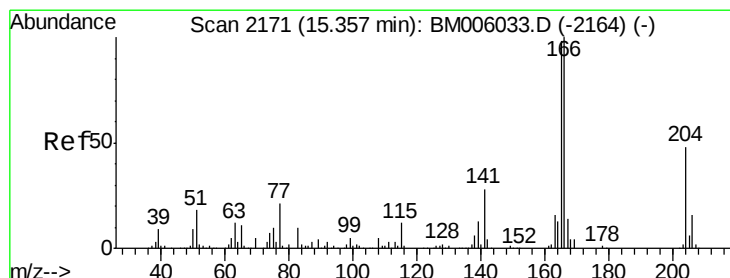
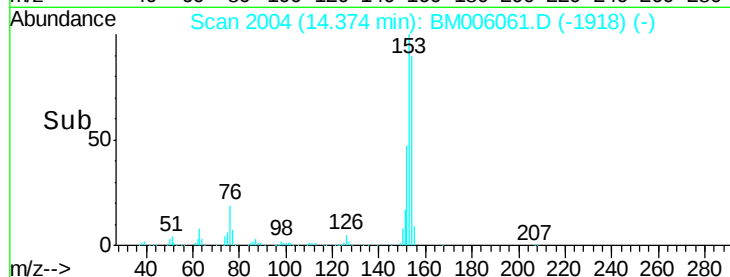
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Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



Time--> 14.30 14.35 14.40



#22

Fluorene

Concen: 5.02 ng/ul

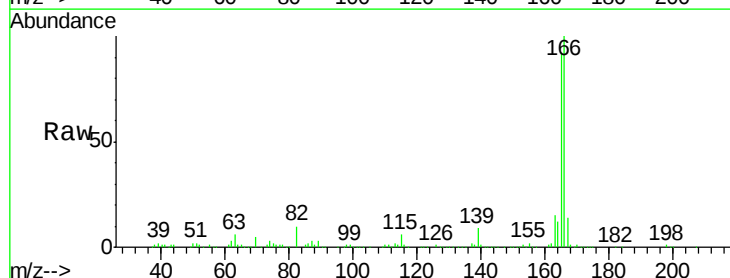
RT: 15.36 min Scan# 2172

Delta R.T. 0.01 min

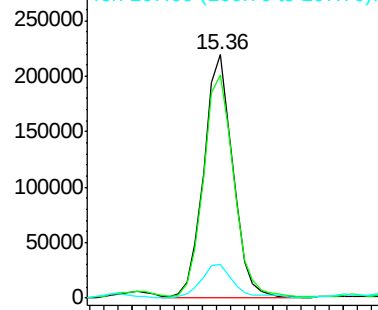
Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

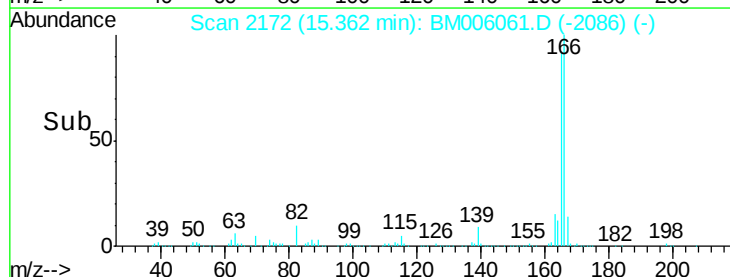
Tgt Ion:	166	Resp:	314212
Ion Ratio	Lower	Upper	
166	100		
165	91.7	76.8	115.2
167	13.7	10.8	16.2

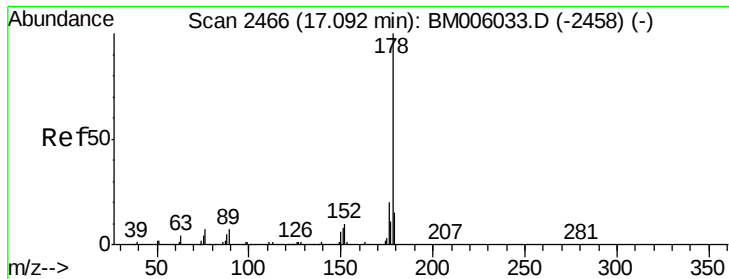


Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time--> 15.30 15.35 15.40 15.45





#25

Phenanthrene

Concen: 62.52 ng/ul

RT: 17.11 min Scan# 2469

Delta R.T. 0.02 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Instrument :

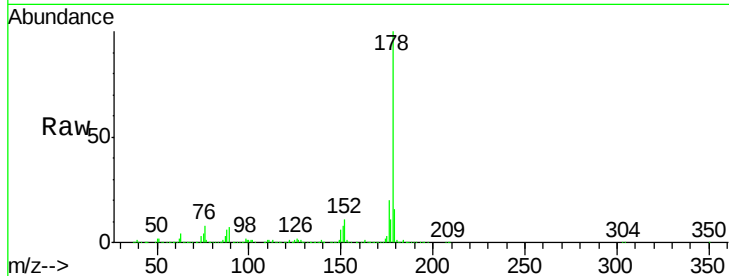
BNA_M

ClientSampleId :

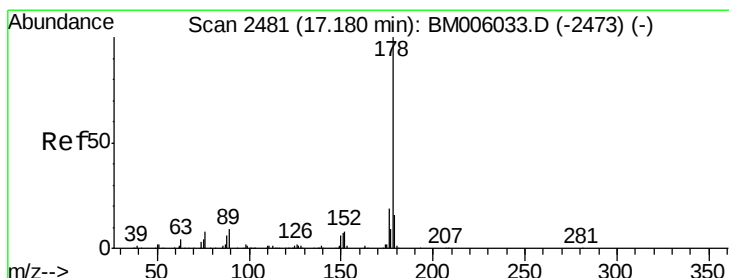
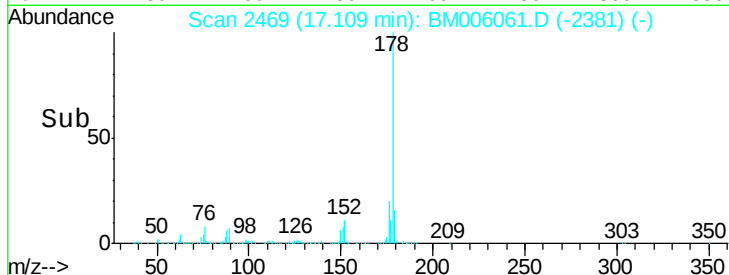
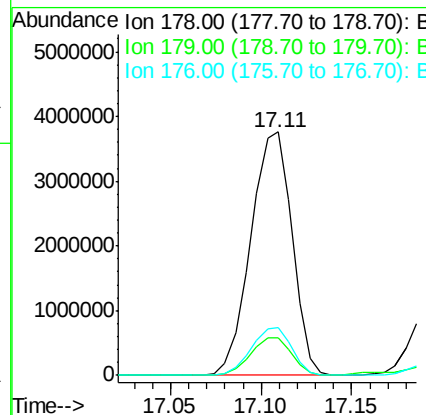
D9YA3

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Tgt Ion:	178	Resp:	5944061
Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.1	18.1
176	19.8	15.4	23.0



#27

Anthracene

Concen: 14.93 ng/ul

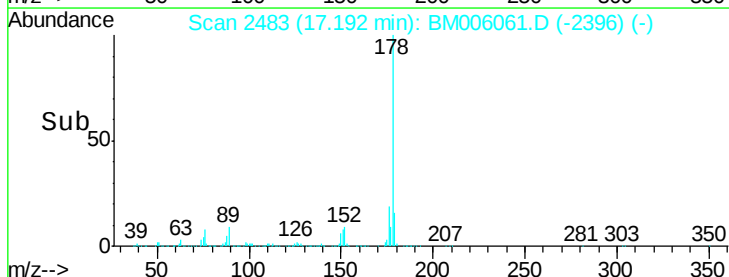
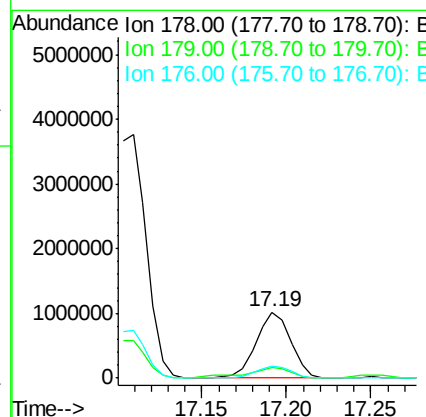
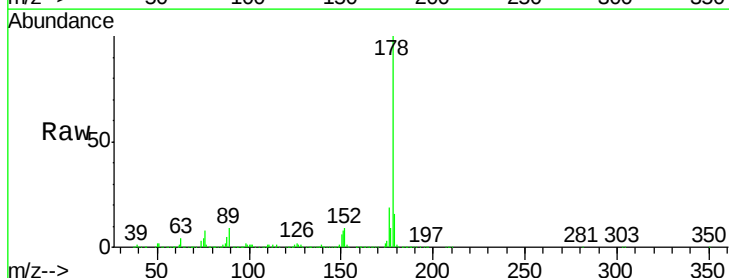
RT: 17.19 min Scan# 2483

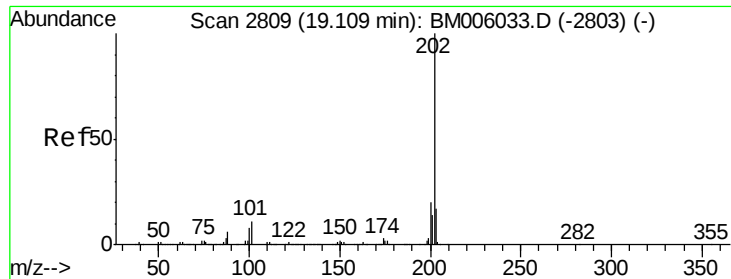
Delta R.T. 0.01 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Tgt Ion:	178	Resp:	1465899
Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4
176	18.7	14.9	22.3





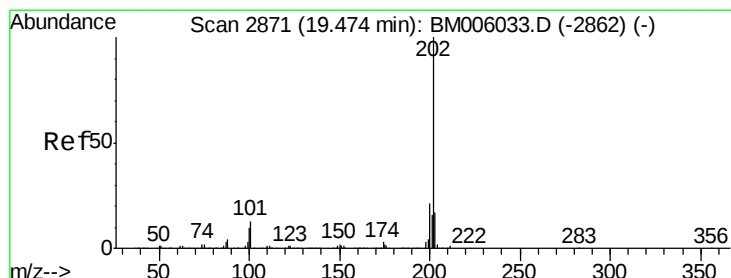
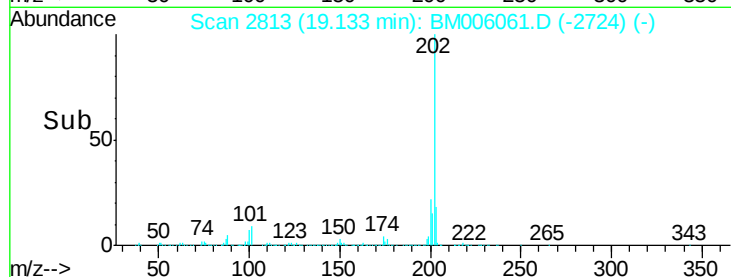
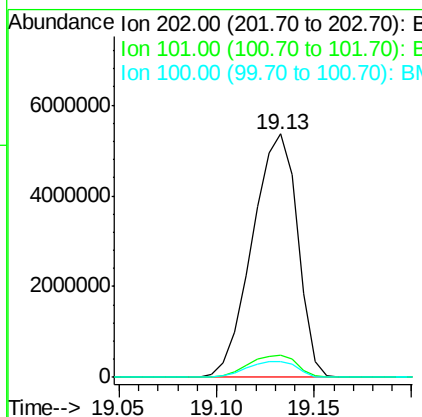
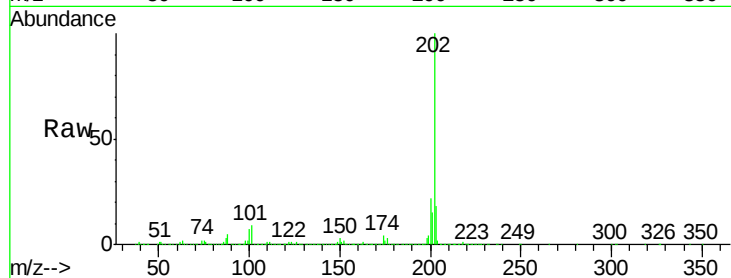
#28
 Fluoranthene
 Concen: 70.66 ng/ul
 RT: 19.13 min Scan# 2813
 Delta R.T. 0.02 min
 Lab File: BM006061.D
 Acq: 27 Jun 2016 04:11

Instrument :
 BNA_M
 ClientSampleId :
 D9YA3

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.3	8.2	12.4
100	6.7	6.3	9.5

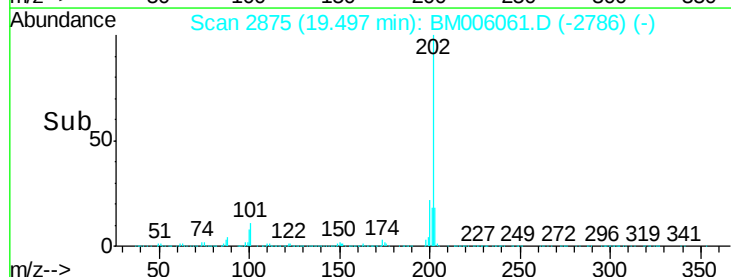
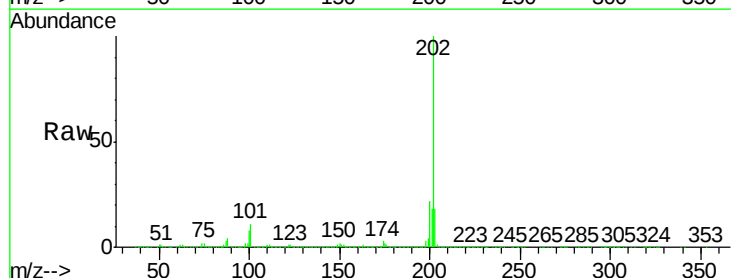
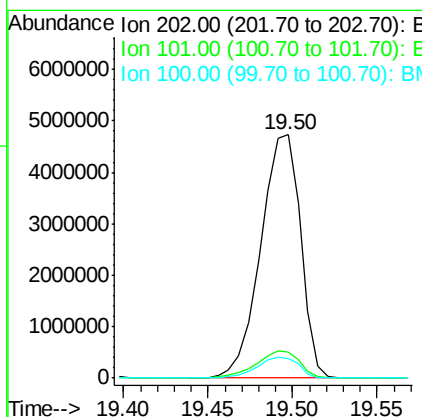
Manual Integrations
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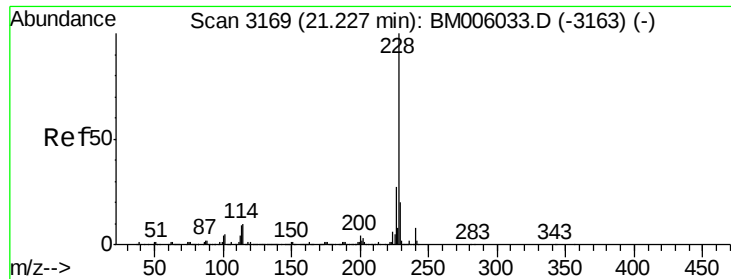
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#31
 Pyrene
 Concen: 100.86 ng/ul
 RT: 19.50 min Scan# 2875
 Delta R.T. 0.02 min
 Lab File: BM006061.D
 Acq: 27 Jun 2016 04:11

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.7	9.8	14.6
100	8.3	8.2	12.2





#32

Benzo(a)anthracene

Concen: 42.20 ng/ul

RT: 21.24 min Scan# 3172

Delta R.T. 0.02 min

Lab File: BM006061.D

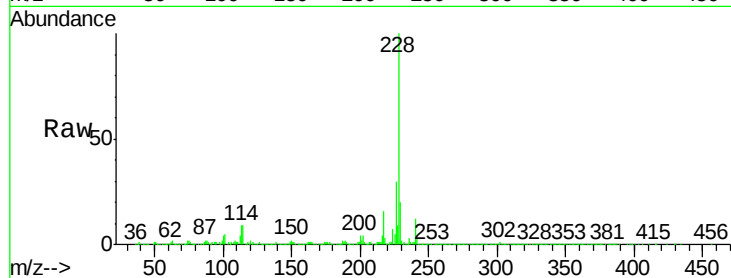
Acq: 27 Jun 2016 04:11

Instrument :

BNA_M

ClientSampleId :

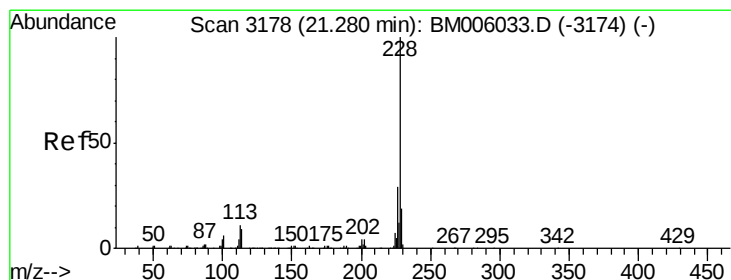
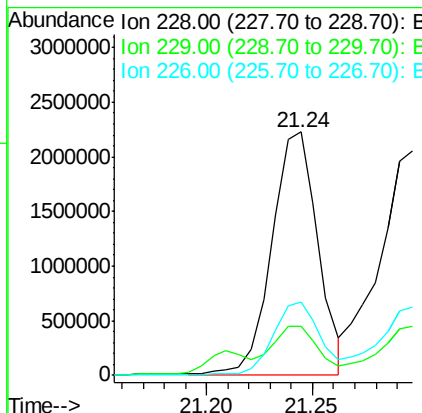
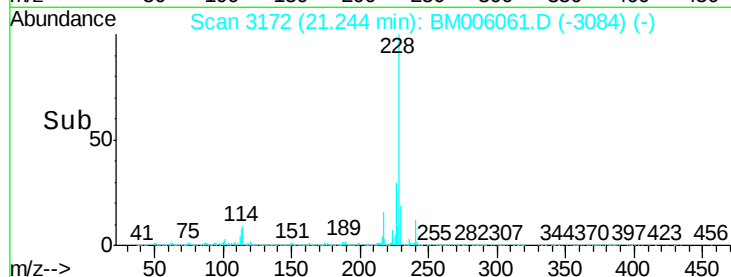
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Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.0	15.8	23.6
226	30.1	21.5	32.3

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#33

Chrysene

Concen: 44.19 ng/ul

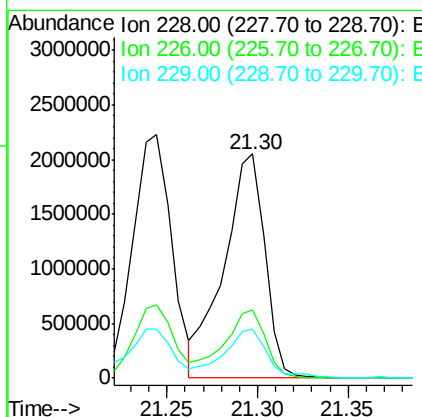
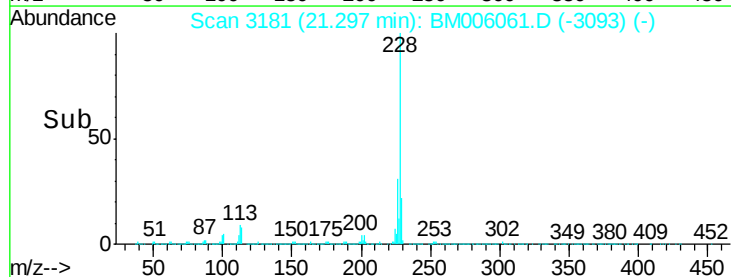
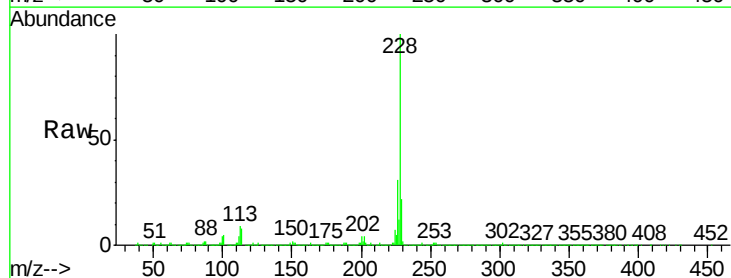
RT: 21.30 min Scan# 3181

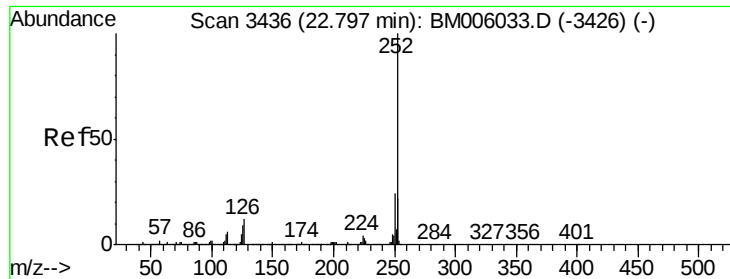
Delta R.T. 0.02 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.3	36.5
229	21.7	15.4	23.2





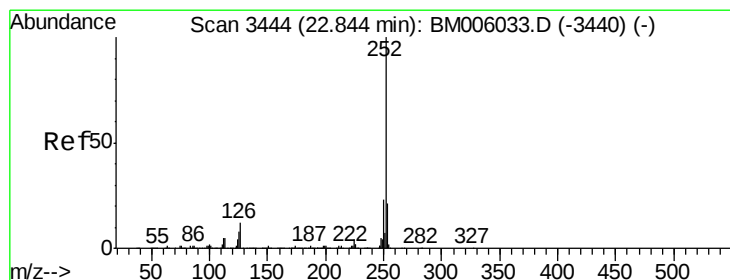
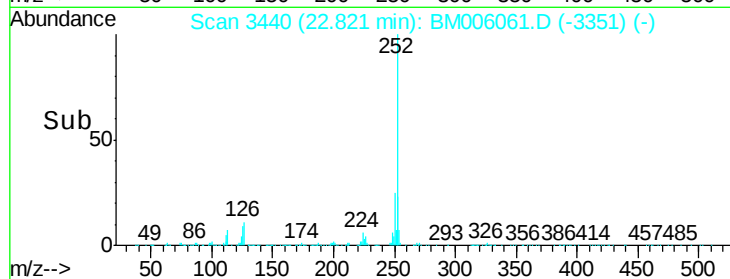
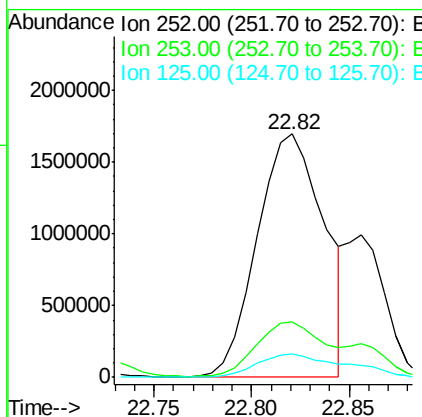
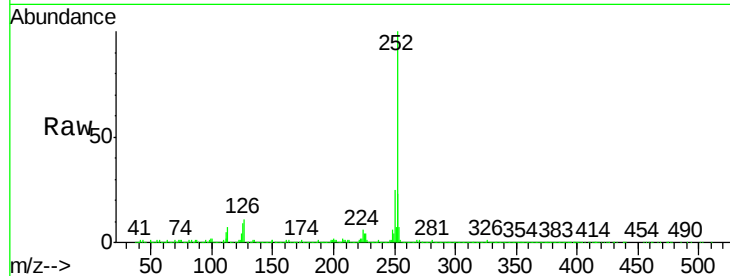
#35
Benzo(b)fluoranthene
Concen: 53.05 ng/ul
RT: 22.82 min Scan# 3440
Delta R.T. 0.02 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Instrument :
BNA_M
ClientSampleId :
D9YA3

Tgt Ion:252 Resp: 4014201
Ion Ratio Lower Upper
252 100
253 22.8 17.2 25.8
125 9.5 6.8 10.2

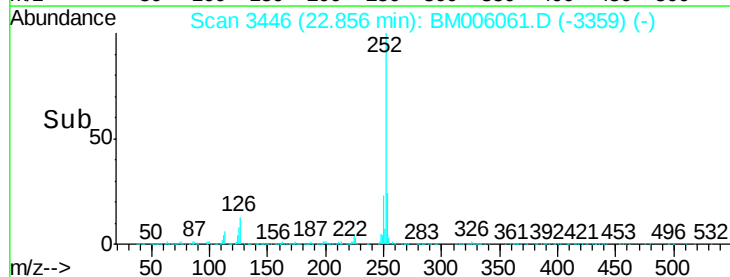
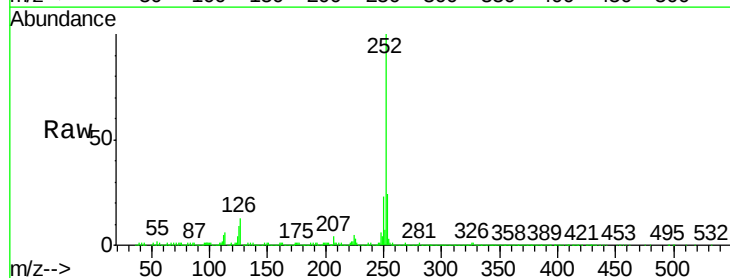
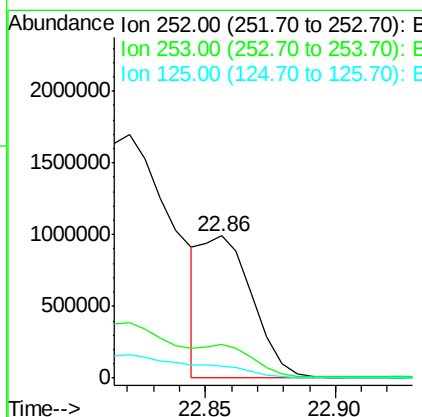
Manual Integrations
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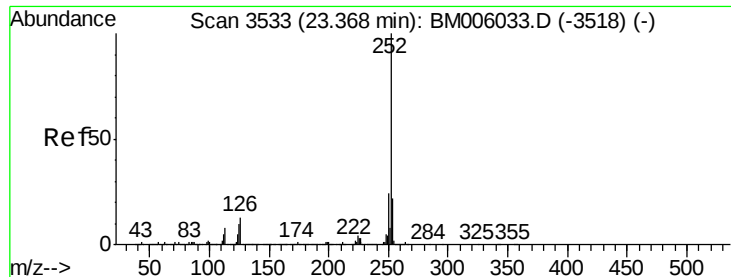
sohil
6/27/2016 8:06:29 PM



#36
Benzo(k)fluoranthene
Concen: 19.35 ng/ul m
RT: 22.86 min Scan# 3446
Delta R.T. 0.01 min
Lab File: BM006061.D
Acq: 27 Jun 2016 04:11

Tgt Ion:252 Resp: 1361829
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 8.8 7.0 10.4





#38

Benzo(a)pyrene

Concen: 39.27 ng/ul

RT: 23.39 min Scan# 3536

Delta R.T. 0.02 min

Lab File: BM006061.D

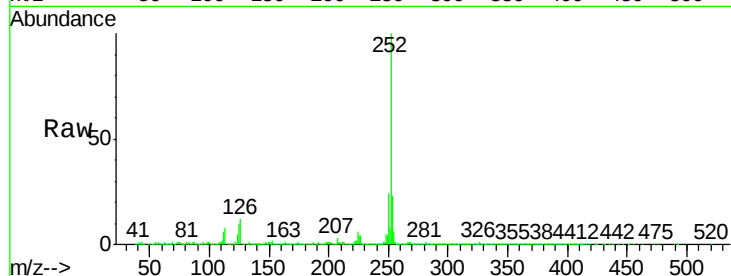
Acq: 27 Jun 2016 04:11

Instrument :

BNA_M

ClientSampleId :

D9YA3



Tgt Ion:252 Resp: 2849476

Ion Ratio Lower Upper

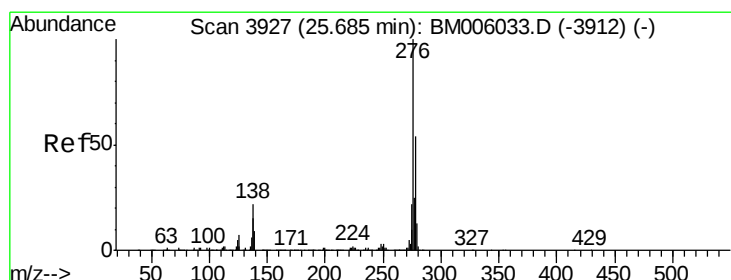
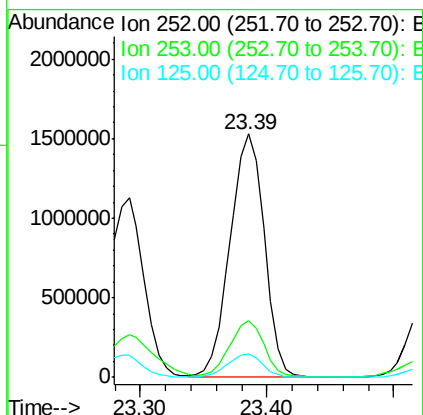
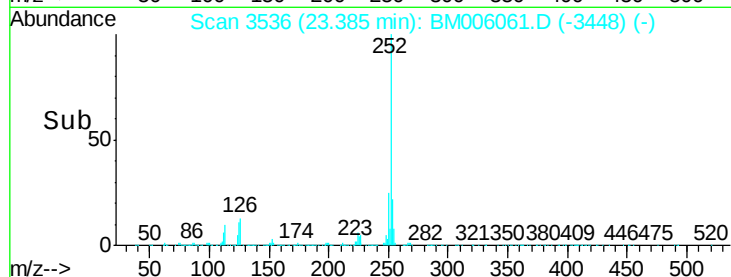
252 100

253 23.2 17.6 26.4

125 9.6 7.8 11.6

Manual Integrations
APPROVED

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#39

Indeno(1,2,3-cd)pyrene

Concen: 28.04 ng/ul

RT: 25.71 min Scan# 3931

Delta R.T. 0.02 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

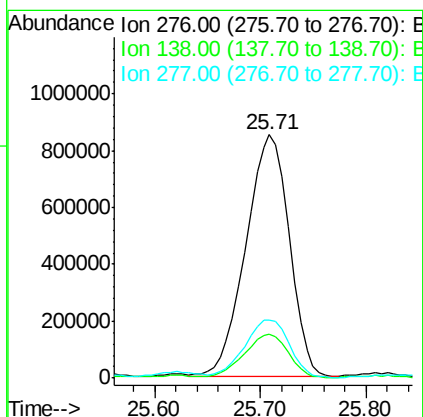
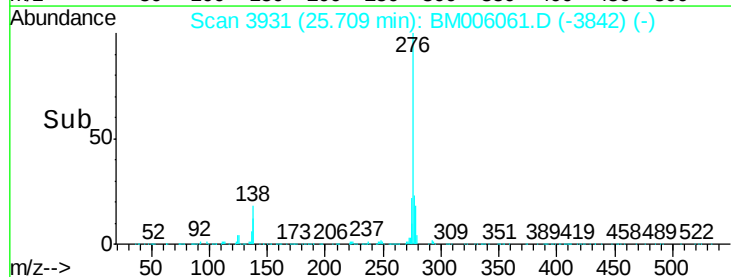
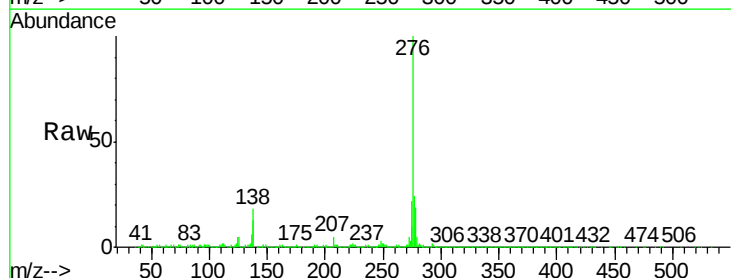
Tgt Ion:276 Resp: 2425448

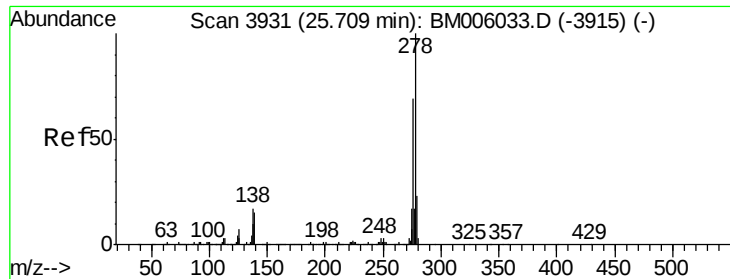
Ion Ratio Lower Upper

276 100

138 18.2 16.6 25.0

277 24.1 19.6 29.4





#40

Dibenzo(a,h)anthracene

Concen: 7.24 ng/ul m

RT: 25.71 min Scan# 3931

Delta R.T. -0.00 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Instrument :

BNA_M

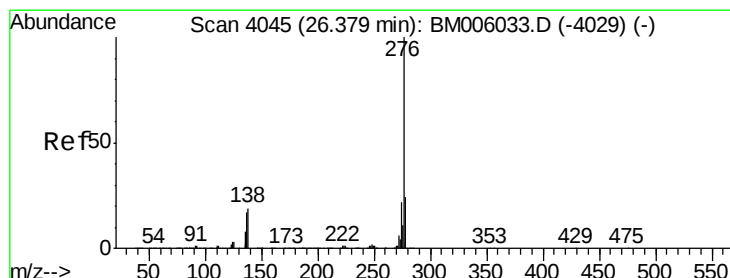
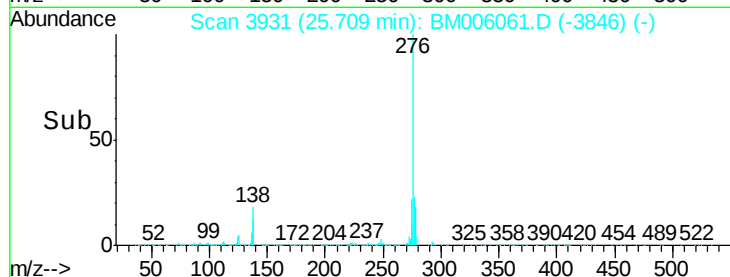
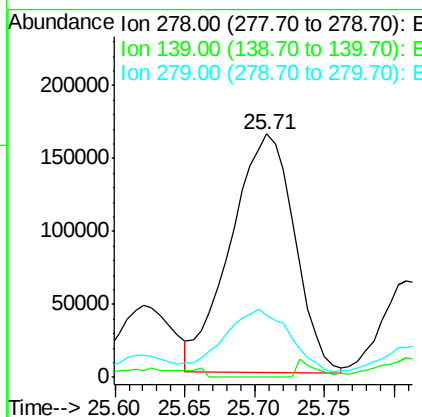
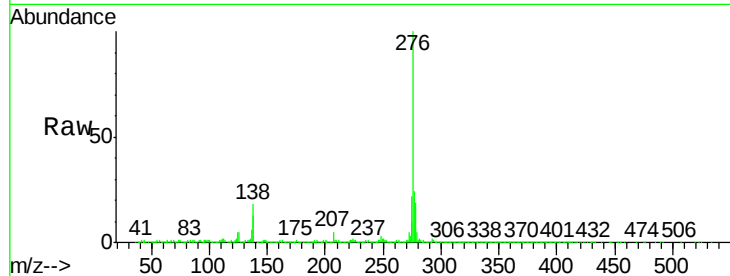
ClientSampleId :

D9YA3

Tgt Ion:	278	Resp:	520635
Ion Ratio	Lower	Upper	
278	100		
139	0.0	11.4	17.2#
279	25.5	18.8	28.2

Manual Integrations
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#41

Benzo(g,h,i)perylene

Concen: 34.07 ng/ul

RT: 26.40 min Scan# 4048

Delta R.T. 0.02 min

Lab File: BM006061.D

Acq: 27 Jun 2016 04:11

Tgt Ion:	276	Resp:	2548743
Ion Ratio	Lower	Upper	
276	100		
138	18.8	15.9	23.9
277	24.1	19.2	28.8

