

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040617\
 Data File : BM009563.D
 Acq On : 05 Apr 2017 18:22
 Operator : SJ/MA
 Sample : I2285-19
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CB341

Manual Integrations
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mohammad
 4/6/2017 11:38:27 AM

Quant Time: Apr 05 18:57:13 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM040417-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Apr 05 13:39:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	133422	20.00	ng/ul	0.00
2) Naphthalene-d8	10.64	136	508271	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.49	164	285869	20.00	ng/ul	0.00
12) Phenanthrene-d10	17.23	188	701678m	20.00	ng/ul	0.00
18) Chrysene-d12	21.41	240	1010446m	20.00	ng/ul	0.00
23) Perylene-d12	23.73	264	980959	20.00	ng/ul	0.00

System Monitoring Compounds						
3) 2,4-Dichlorophenol-d3	10.26	165	6117	0.78	ng/uL	0.00
7) Acenaphthylene-d8	14.18	160	339465	12.12	ng/ul	0.00
10) Fluorene-d10	15.48	176	276182	13.71	ng/ul	0.00
15) Anthracene-d10	17.33	188	448760m	13.37	ng/ul	0.00
19) Pyrene-d10	19.63	212	584436m	14.07	ng/ul	0.00
26) Benzo(a)pyrene-d12	23.59	264	611560	14.12	ng/ul	0.00

Target Compounds				Qvalue		
4) Naphthalene	10.69	128	38422	1.47	ng/ul	97
8) Acenaphthylene	14.21	152	36577	1.30	ng/ul#	93
9) Acenaphthene	14.55	153	45399	2.35	ng/ul	99
11) Fluorene	15.53	166	57608	2.44	ng/ul#	95
14) Phenanthrene	17.28	178	1156608m	29.32	ng/ul	
16) Anthracene	17.37	178	250188	6.13	ng/ul	100
17) Fluoranthene	19.29	202	2109053	42.93	ng/ul	97
20) Pyrene	19.66	202	1875395	34.09	ng/ul	95
21) Benzo(a)anthracene	21.40	228	1292023m	22.62	ng/ul	
22) Chrysene	21.45	228	1069157	20.42	ng/ul	98
24) Benzo(b)fluoranthene	23.03	252	1506249	24.83	ng/ul	99
25) Benzo(k)fluoranthene	23.07	252	491927m	8.51	ng/ul	
27) Benzo(a)pyrene	23.63	252	1119530m	19.41	ng/ul	
28) Indeno(1,2,3-cd)pyrene	26.09	276	674112	10.42	ng/ul	95
29) Dibenzo(a,h)anthracene	26.10	278	195818m	3.56	ng/ul	
30) Benzo(g,h,i)perylene	26.81	276	584341	10.96	ng/ul#	92

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

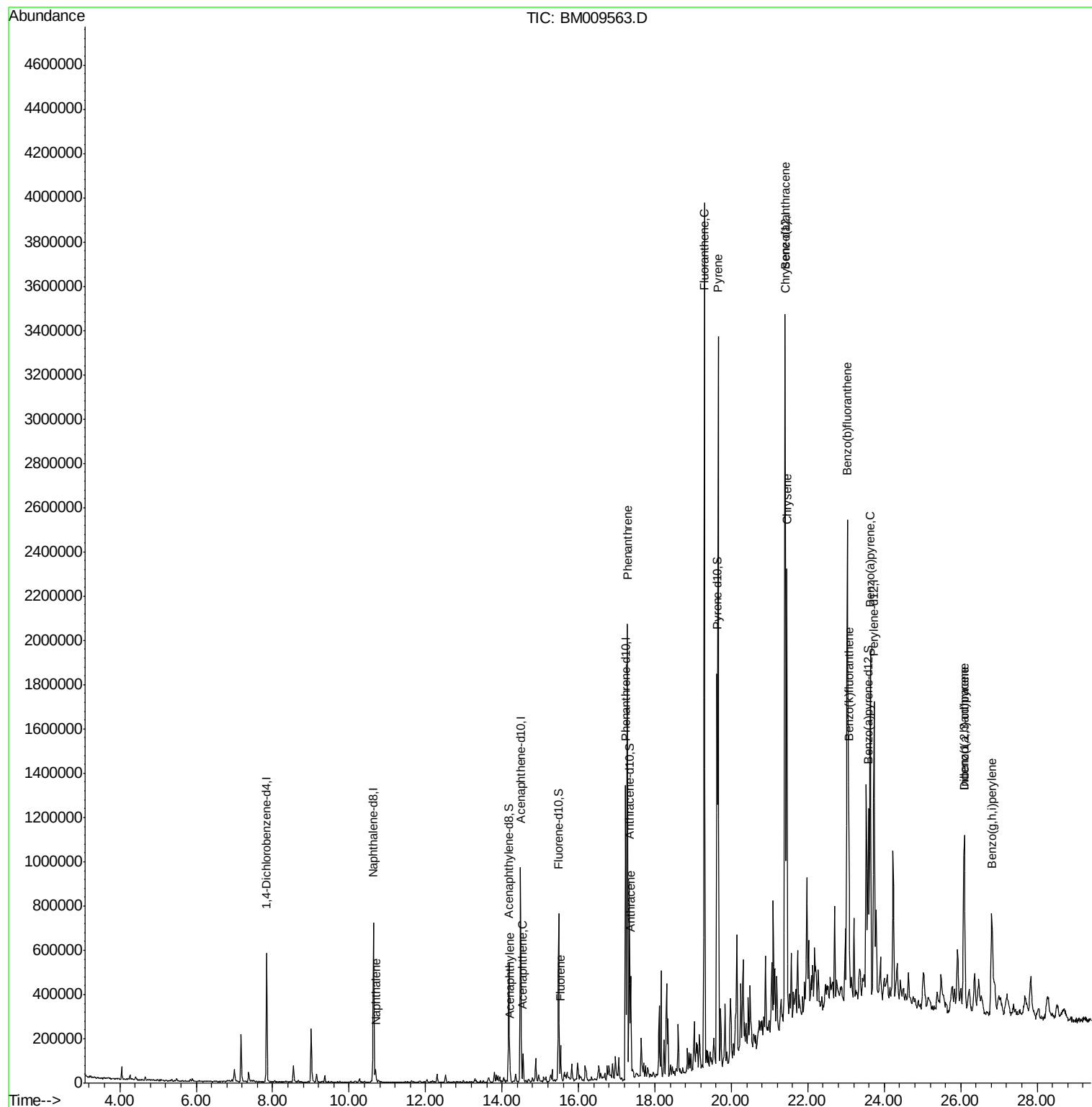
Data Path : Z:\HPCHEM1\BNA M\DATA\BM040617\
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ALS Vial : 12 Sample Multiplier: 1

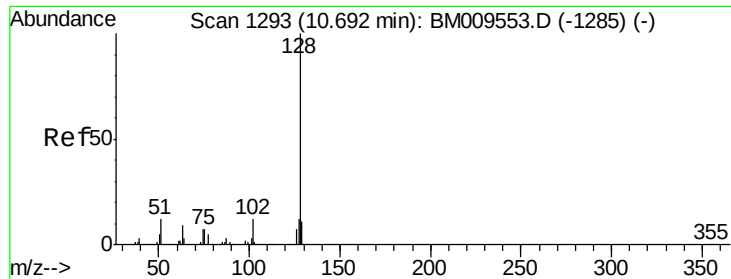
Instrument :
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Quant Time: Apr 05 18:57:13 2017
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Response via : Initial Calibration





#4

Naphthalene

Concen: 1.47 ng/ul

RT: 10.69 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Instrument :

BNA_M

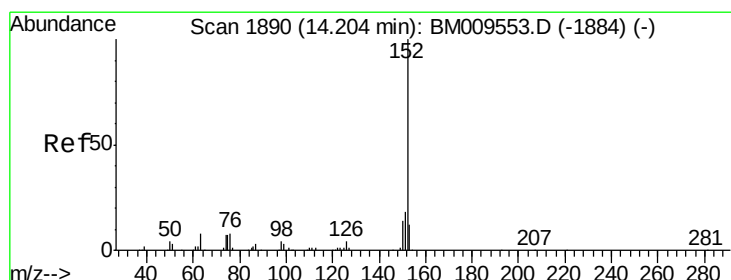
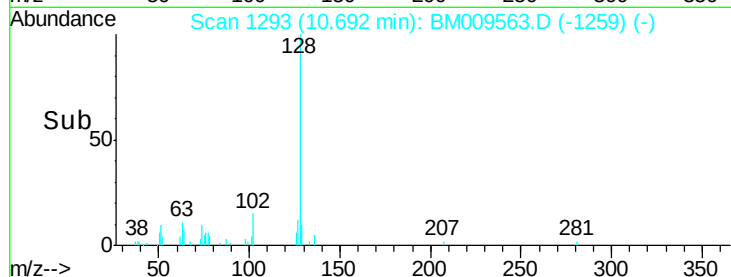
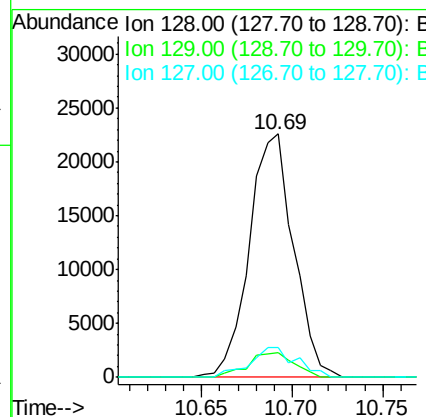
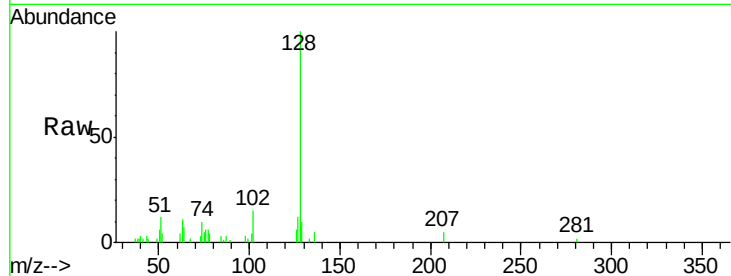
ClientSampleId :

CB341

Tot Ion:	128	Resp:	38422
Ion Ratio	Lower	Upper	
128	100		
129	10.1	9.1	13.7
127	12.0	10.6	15.8

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#8

Acenaphthylene

Concen: 1.30 ng/ul

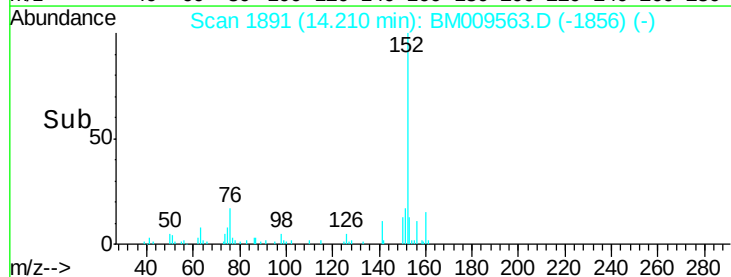
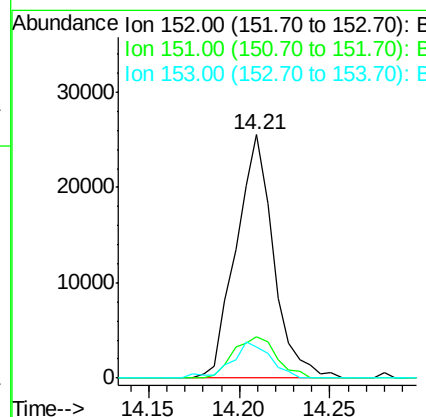
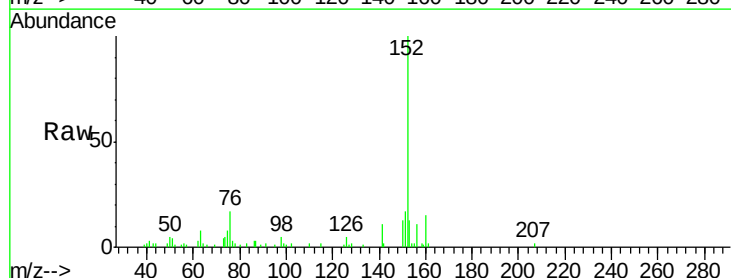
RT: 14.21 min Scan# 1891

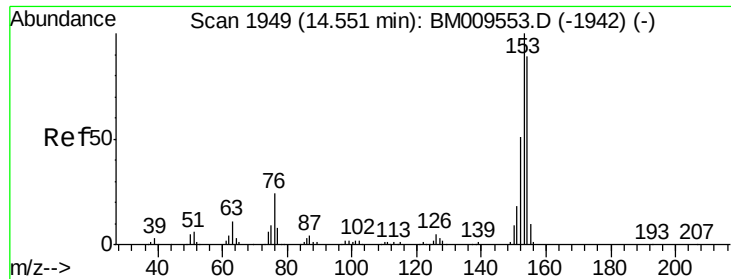
Delta R.T. 0.01 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Tgt Ion:	152	Resp:	36577
Ion Ratio	Lower	Upper	
152	100		
151	17.2	17.5	26.3#
153	12.9	10.6	16.0





#9

Acenaphthene

Concen: 2.35 ng/ul

RT: 14.55 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Instrument :

BNA_M

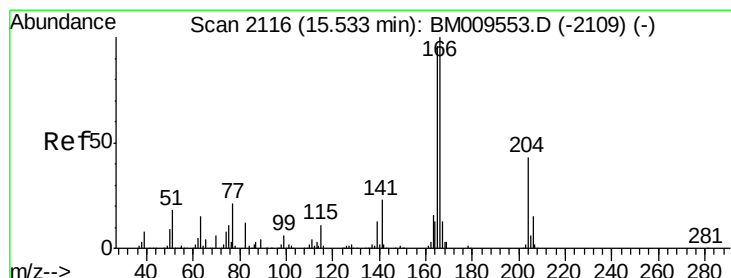
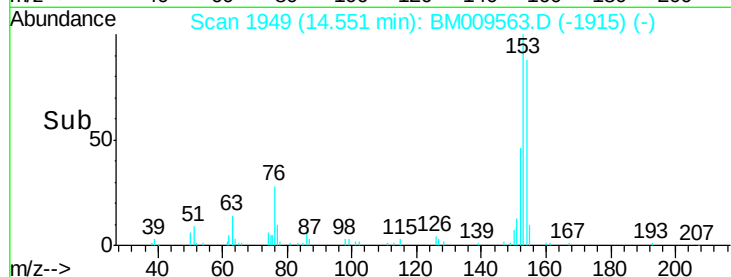
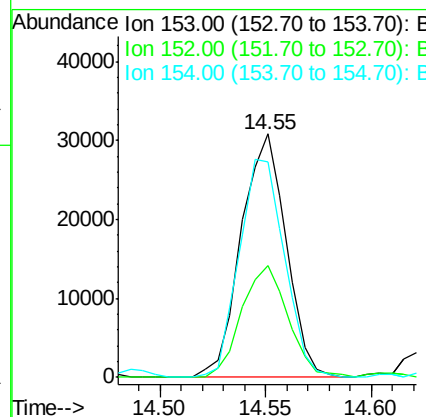
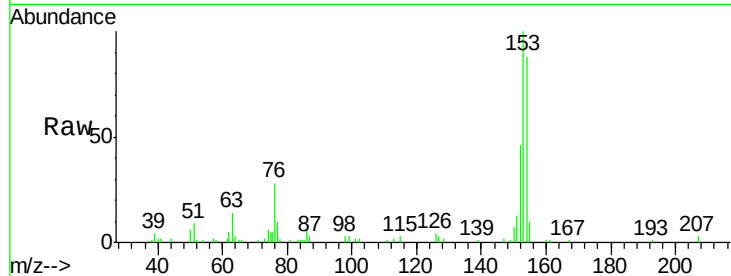
ClientSampleId :

CB341

Tot Ion:	153	Resp:	45399
Ion Ratio	Lower	Upper	
153	100		
152	46.0	37.9	56.9
154	88.4	71.6	107.4

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#11

Fluorene

Concen: 2.44 ng/ul

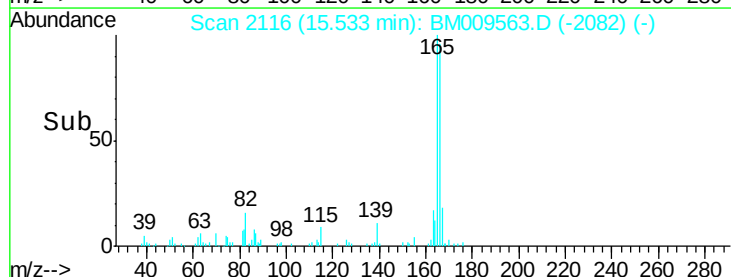
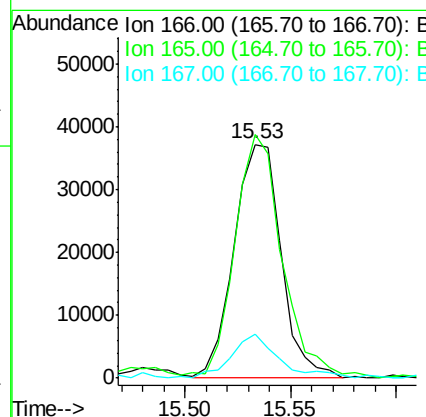
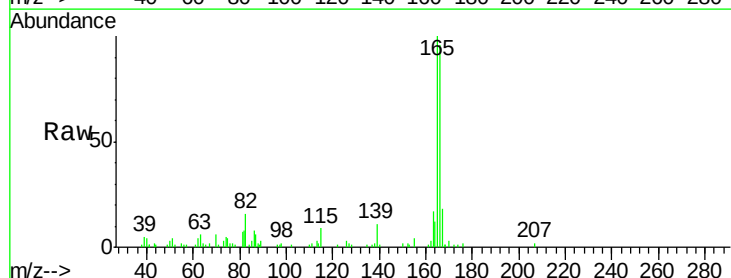
RT: 15.53 min Scan# 2116

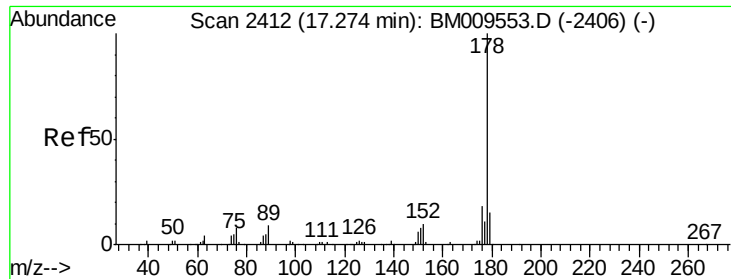
Delta R.T. -0.00 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Tgt Ion:	166	Resp:	57608
Ion Ratio	Lower	Upper	
166	100		
165	104.2	80.0	120.0
167	18.8	11.6	17.4#





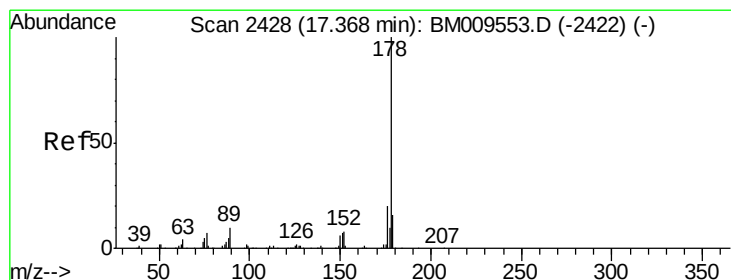
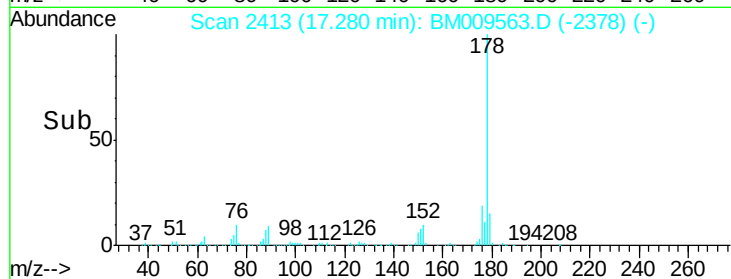
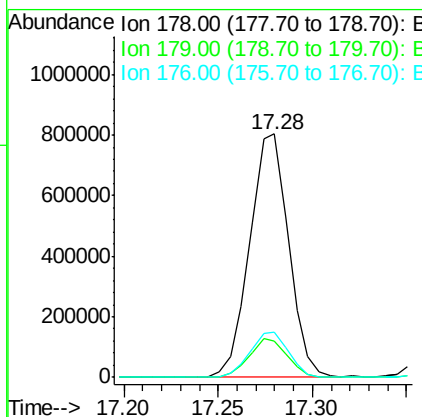
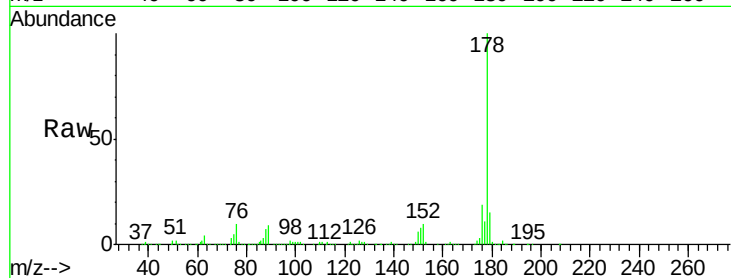
#14
Phenanthrene
Concen: 29.32 ng/ul m
RT: 17.28 min Scan# 2413
Delta R.T. 0.01 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Instrument :
BNA_M
ClientSampleId :
CB341

Tot Ion:178 Resp: 1156608
Ion Ratio Lower Upper
178 100
179 14.9 12.2 18.4
176 18.7 16.4 24.6

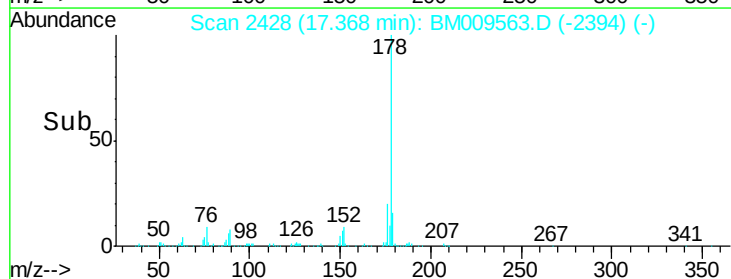
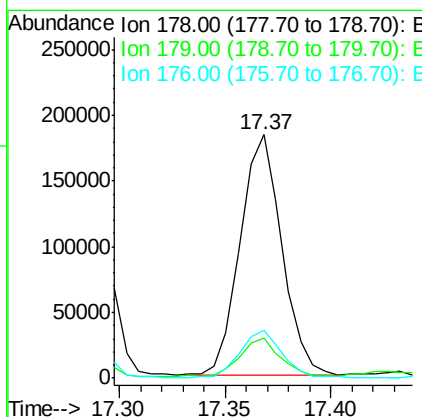
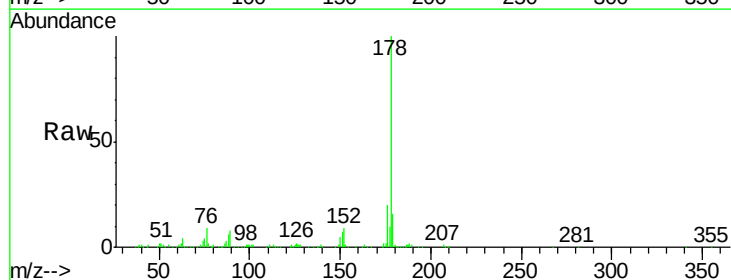
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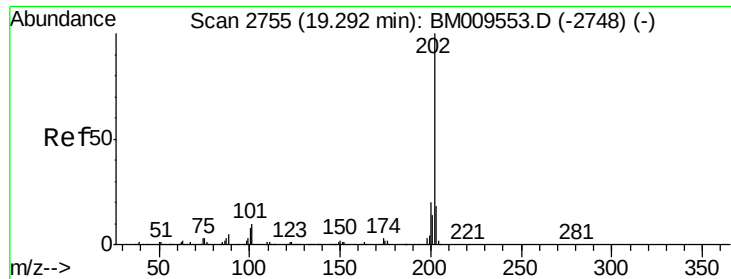
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#16
Anthracene
Concen: 6.13 ng/ul
RT: 17.37 min Scan# 2428
Delta R.T. -0.00 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Tgt Ion:178 Resp: 250188
Ion Ratio Lower Upper
178 100
179 16.2 12.7 19.1
176 19.9 15.8 23.8





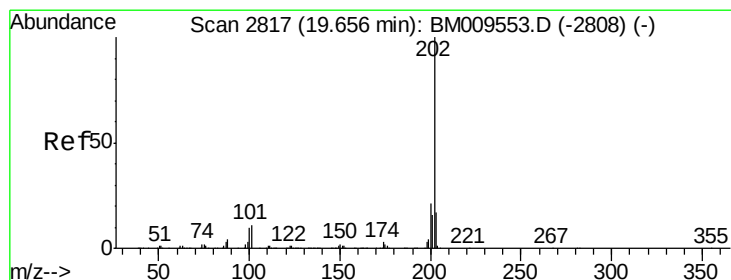
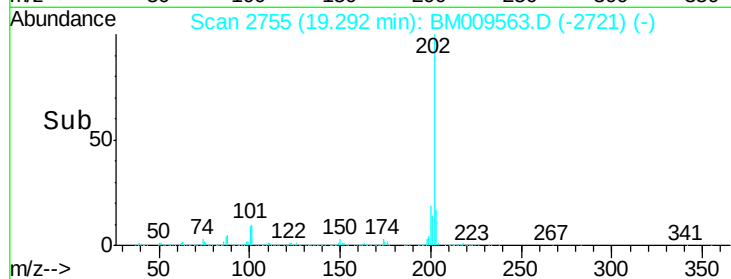
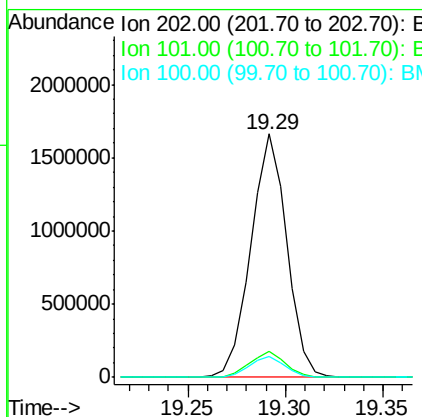
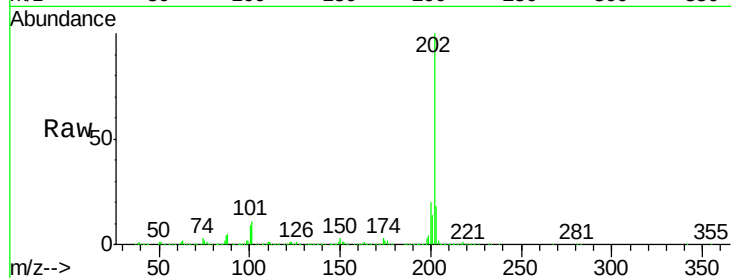
#17
Fluoranthene
 Concen: 42.93 ng/ul
 RT: 19.29 min Scan# 2755
 Delta R.T. -0.00 min
 Lab File: BM009563.D
 Acq: 05 Apr 2017 18:22

Instrument :
 BNA_M
 ClientSampleID :
 CB341

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.7	9.8	14.8
100	8.7	7.5	11.3

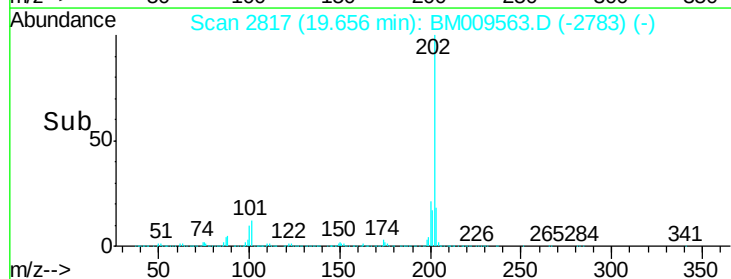
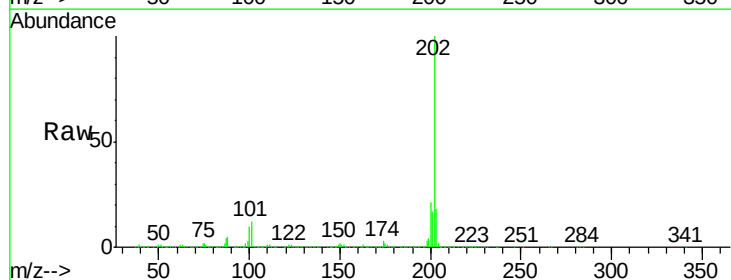
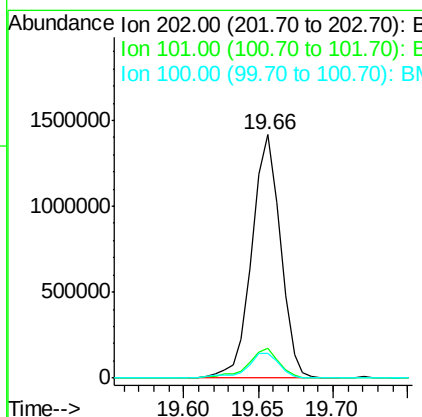
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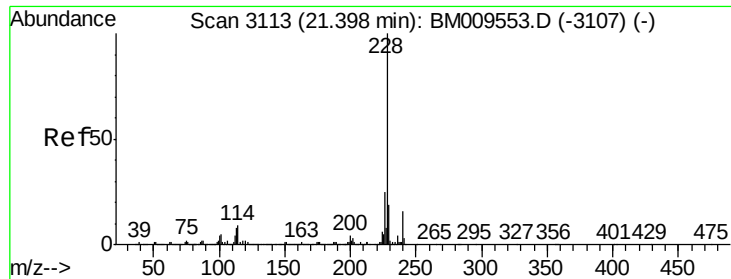
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#20
Pyrene
 Concen: 34.09 ng/ul
 RT: 19.66 min Scan# 2817
 Delta R.T. -0.00 min
 Lab File: BM009563.D
 Acq: 05 Apr 2017 18:22

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.2	16.8
100	10.1	9.8	14.6





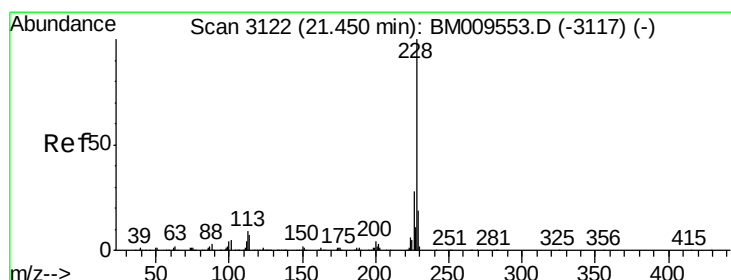
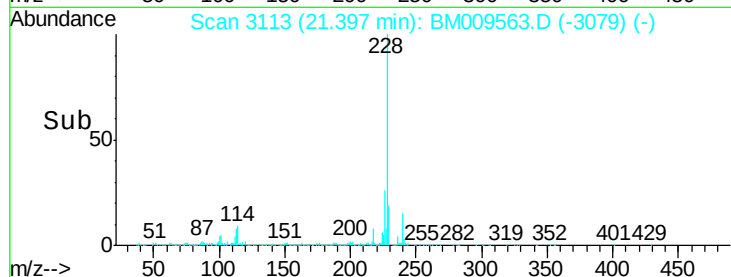
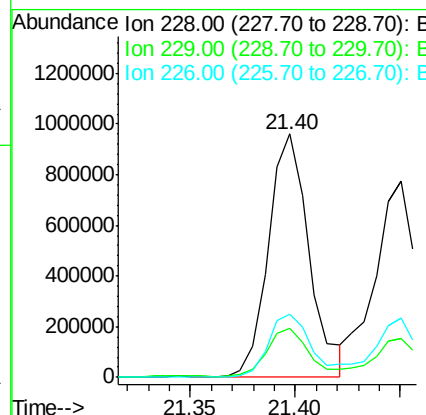
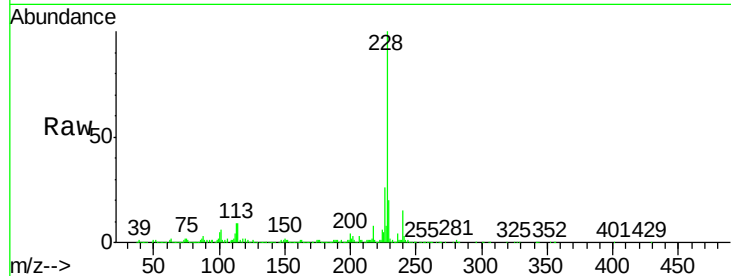
#21
Benzo(a)anthracene
Concen: 22.62 ng/ul m
RT: 21.40 min Scan# 3113
Delta R.T. -0.00 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Instrument :
BNA_M
ClientSampleId :
CB341

Tot Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.9	23.9
226	26.1	22.1	33.1

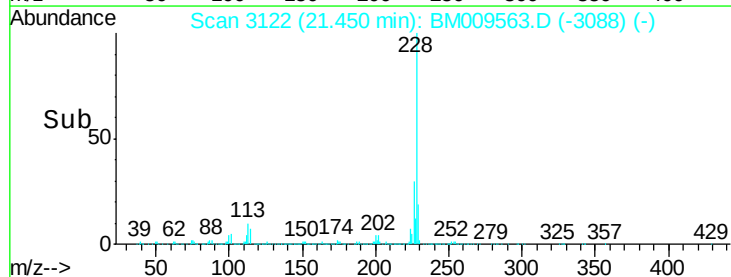
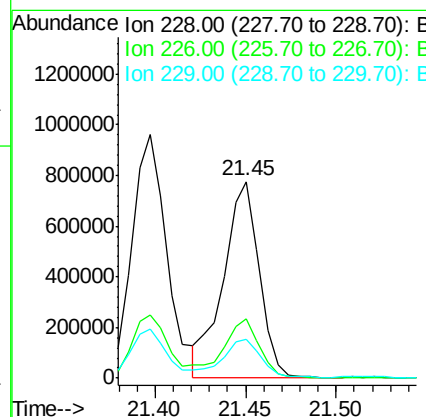
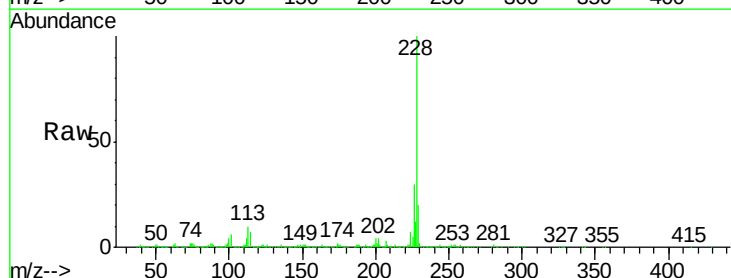
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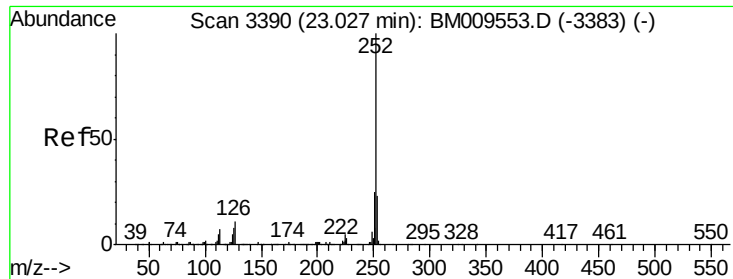
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#22
Chrysene
Concen: 20.42 ng/ul
RT: 21.45 min Scan# 3122
Delta R.T. -0.00 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.6
229	19.9	16.6	25.0





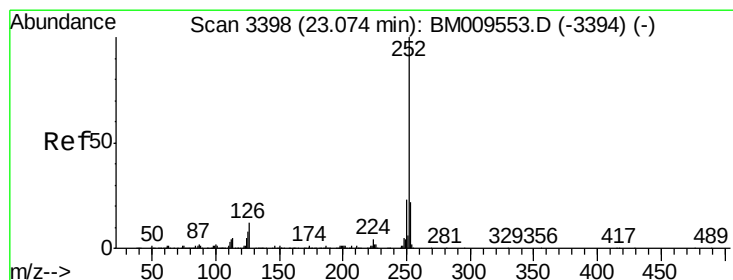
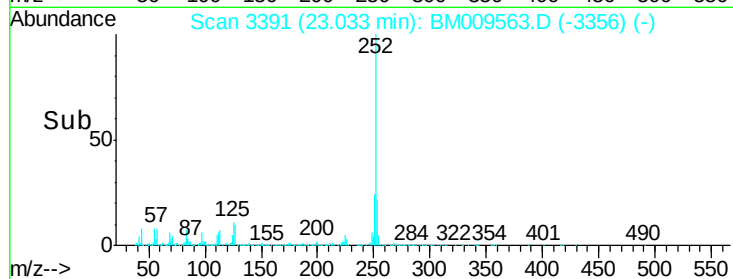
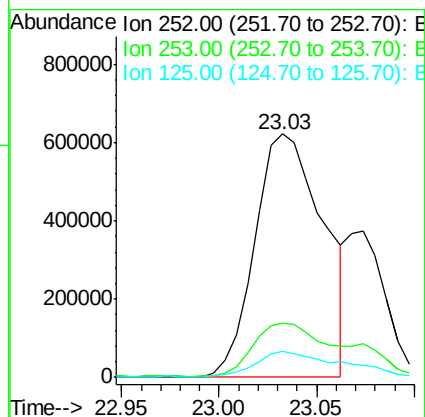
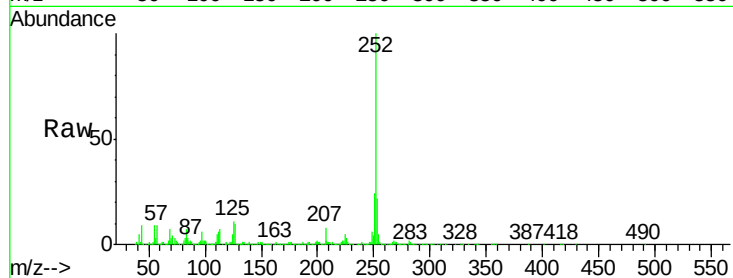
#24
Benzo(b)fluoranthene
Concen: 24.83 ng/ul
RT: 23.03 min Scan# 3391
Delta R.T. 0.01 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Instrument :
BNA_M
ClientSampleId :
CB341

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	10.6	9.4	14.0

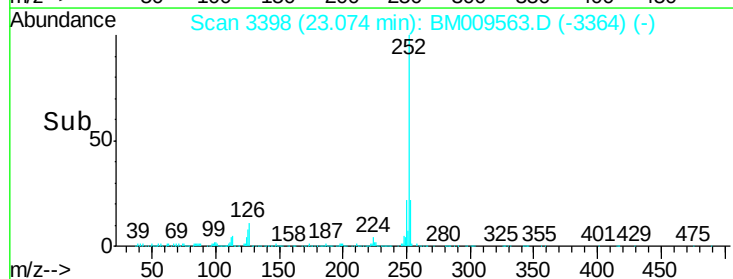
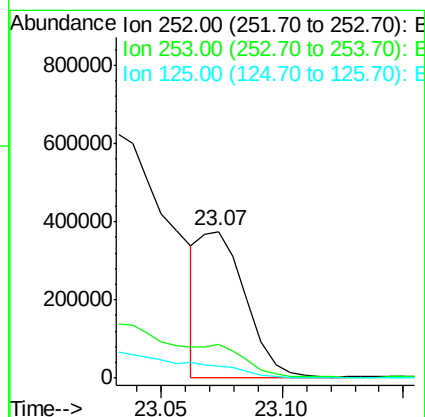
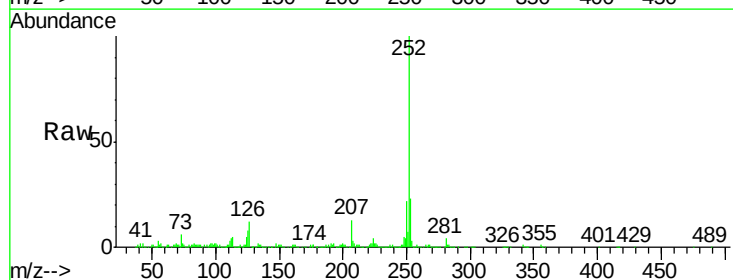
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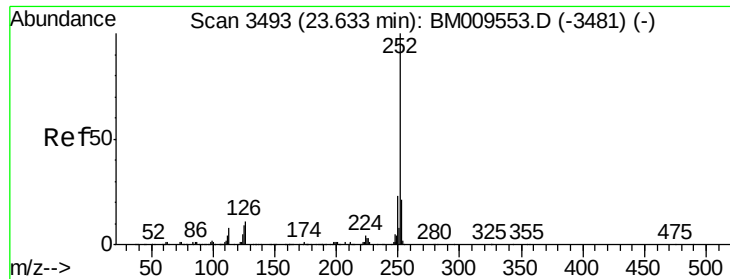
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#25
Benzo(k)fluoranthene
Concen: 8.51 ng/ul m
RT: 23.07 min Scan# 3398
Delta R.T. -0.00 min
Lab File: BM009563.D
Acq: 05 Apr 2017 18:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	8.4	8.8	13.2#





#27

Benzo(a)pyrene

Concen: 19.41 ng/ul m

RT: 23.63 min Scan# 3493

Delta R.T. -0.00 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Instrument :

BNA_M

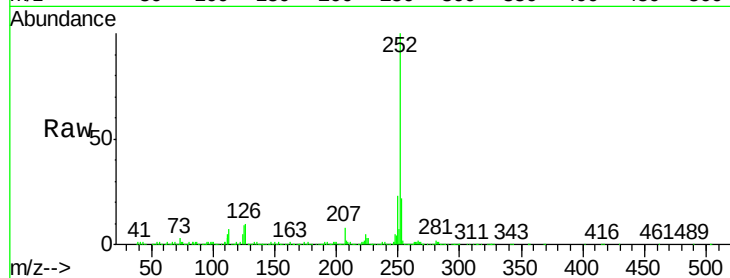
ClientSampleId :

CB341

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	9.3	9.4	14.2

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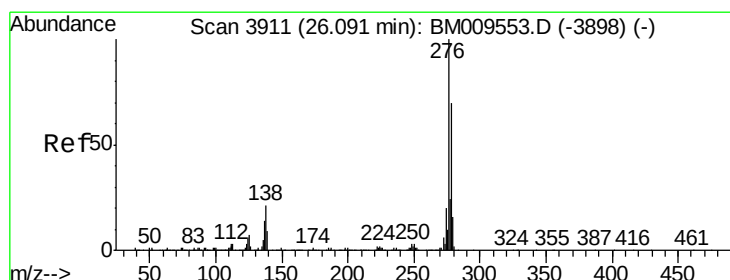
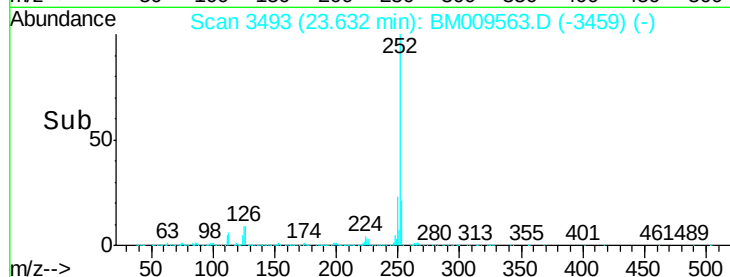
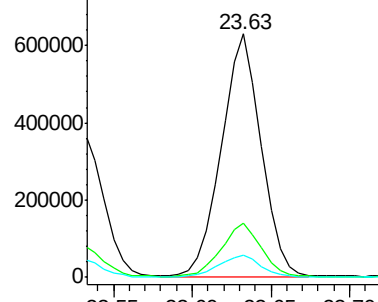


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Indeno(1,2,3-cd)pyrene

Concen: 10.42 ng/ul

RT: 26.09 min Scan# 3911

Delta R.T. -0.00 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

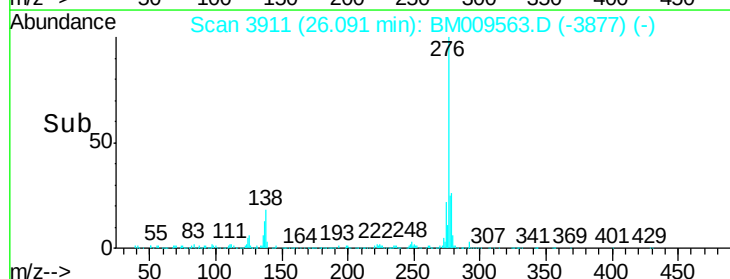
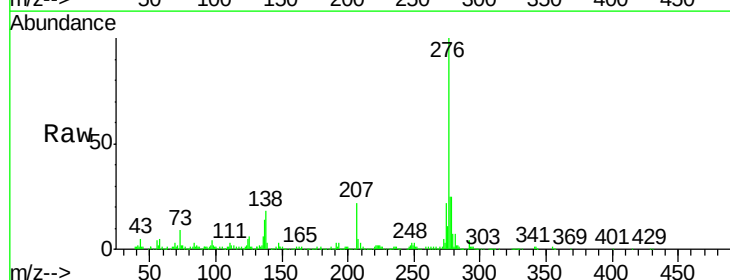
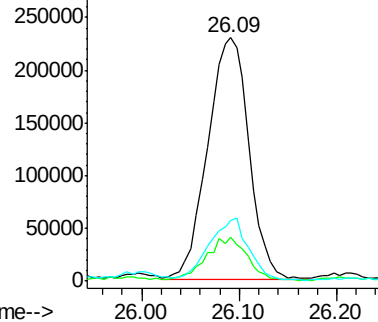
Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.3	17.8	26.6
277	25.0	19.4	29.0

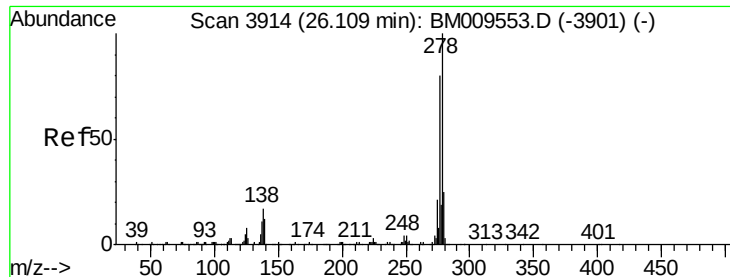
Abundance

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





#29

Dibenzo(a,h)anthracene

Concen: 3.56 ng/ul m

RT: 26.10 min Scan# 3912

Delta R.T. -0.01 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Instrument :

BNA_M

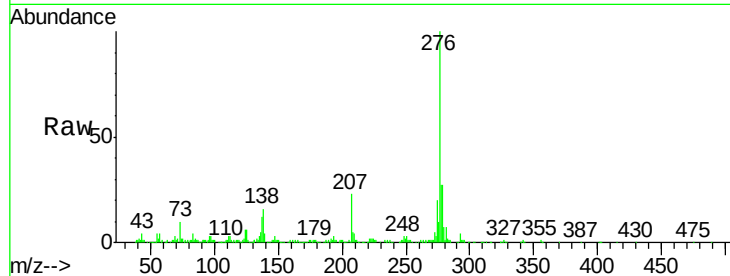
ClientSampleId :

CB341

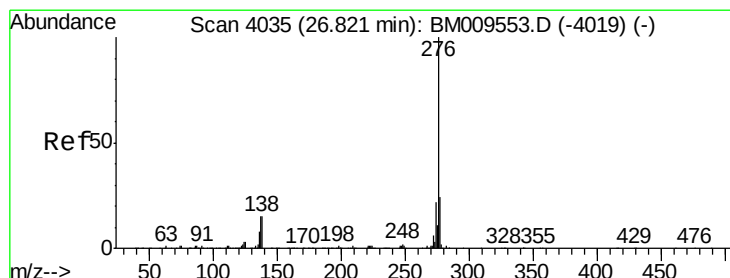
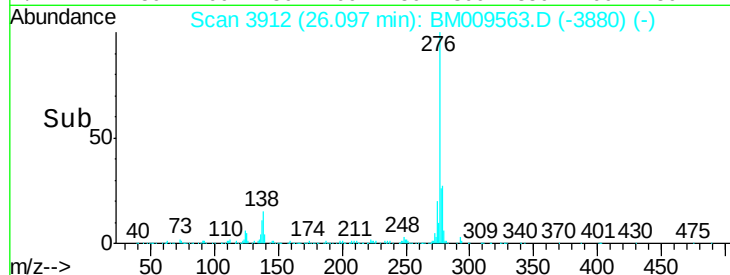
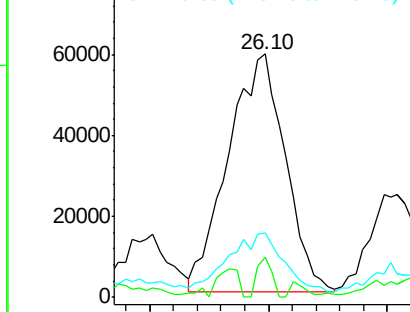
Tot Ion:	278	Resp:	195818
Ion Ratio	Lower	Upper	
278	100		
139	16.4	14.0	21.0
279	26.2	20.6	31.0

Manual Integrations
APPROVED

mohammad
4/6/2017 11:38:27 AM



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



#30

Benzo(g,h,i)perylene

Concen: 10.96 ng/ul

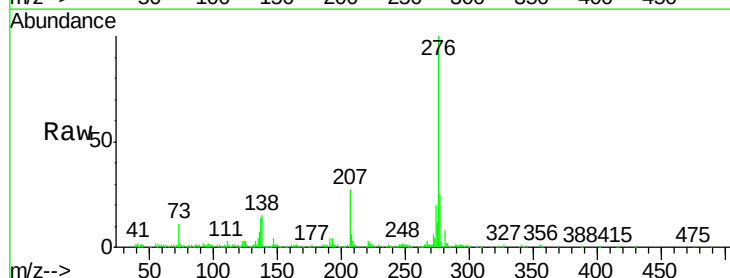
RT: 26.81 min Scan# 4034

Delta R.T. -0.01 min

Lab File: BM009563.D

Acq: 05 Apr 2017 18:22

Tgt Ion:	276	Resp:	584341
Ion Ratio	Lower	Upper	
276	100		
138	15.4	19.0	28.4#
277	24.7	19.7	29.5



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

