

Data Path : Z:\HPCHEM1\BNA M\DATA\BM040717\
 Data File : BM009614.D
 Acq On : 07 Apr 2017 03:24
 Operator : SJ/MA
 Sample : I2525-18
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CB368

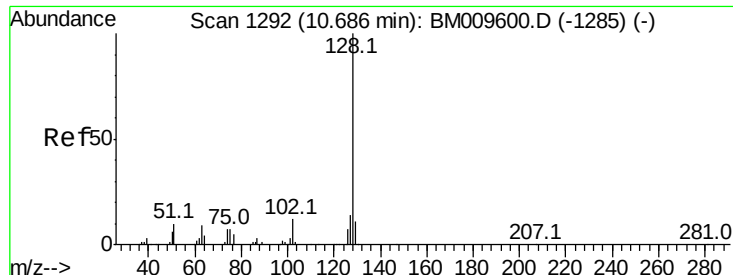
Manual Integrations
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 4/7/2017 2:10:51 PM

Quant Time: Apr 07 04:05:09 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM040417-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Apr 07 03:19:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	179684	20.00	ng/ul	0.00
2) Naphthalene-d8	10.64	136	707051	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.49	164	405352	20.00	ng/ul	0.00
12) Phenanthrene-d10	17.24	188	941669	20.00	ng/ul	0.00
18) Chrysene-d12	21.42	240	1221087	20.00	ng/ul	0.00
23) Perylene-d12	23.74	264	1162331	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 2,4-Dichlorophenol-d3	10.25	165	202662	18.64	ng/uL	0.00
7) Acenaphthylene-d8	14.18	160	1232513	31.03	ng/ul	0.00
10) Fluorene-d10	15.48	176	877878	30.72	ng/ul	0.00
15) Anthracene-d10	17.33	188	1382119	30.68	ng/ul	0.00
19) Pyrene-d10	19.63	212	1632452	32.53	ng/ul	0.00
26) Benzo(a)pyrene-d12	23.60	264	1593566	31.05	ng/ul	0.00
Target Compounds				Qvalue		
4) Naphthalene	10.69	128	42052	1.16	ng/ul#	96
8) Acenaphthylene	14.21	152	78428	1.97	ng/ul	99
9) Acenaphthene	14.55	153	30207	1.10	ng/ul	92
11) Fluorene	15.54	166	35649	1.06	ng/ul	98
14) Phenanthrene	17.28	178	797894	15.07	ng/ul	98
16) Anthracene	17.37	178	197495	3.61	ng/ul	93
17) Fluoranthene	19.30	202	1765309	26.77	ng/ul	95
20) Pyrene	19.66	202	1718605	25.85	ng/ul	96
21) Benzo(a)anthracene	21.40	228	1016565	14.72	ng/ul	98
22) Chrysene	21.46	228	1007432	15.92	ng/ul	98
24) Benzo(b)fluoranthene	23.04	252	1516394	21.09	ng/ul#	95
25) Benzo(k)fluoranthene	23.08	252	420634m	6.14	ng/ul	
27) Benzo(a)pyrene	23.64	252	1022040	14.95	ng/ul	95
28) Indeno(1,2,3-cd)pyrene	26.11	276	748201	9.76	ng/ul	95
29) Dibenzo(a,h)anthracene	26.11	278	196901	3.02	ng/ul	97
30) Benzo(g,h,i)perylene	26.84	276	728690	11.53	ng/ul#	92

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



#4

Naphthalene

Concen: 1.16 ng/ul

RT: 10.69 min Scan# 1292

Delta R.T. 0.00 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Instrument :

BNA_M

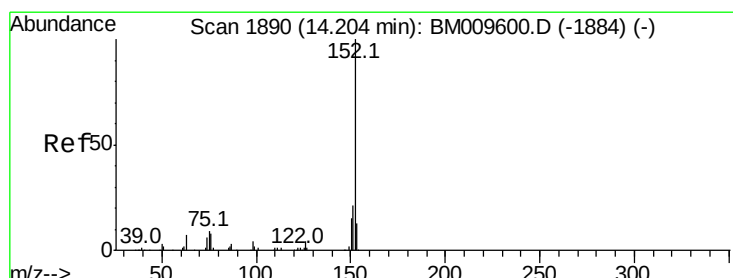
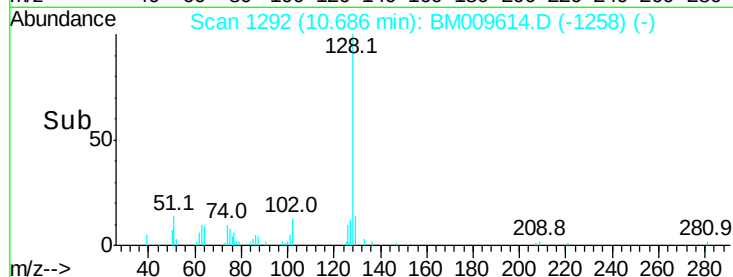
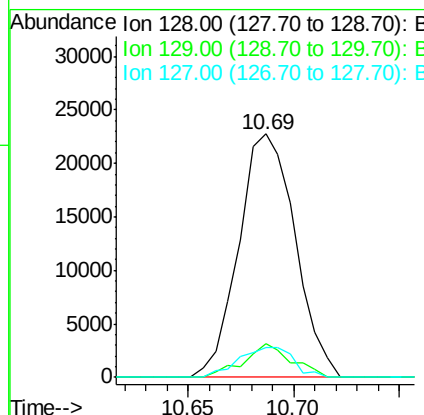
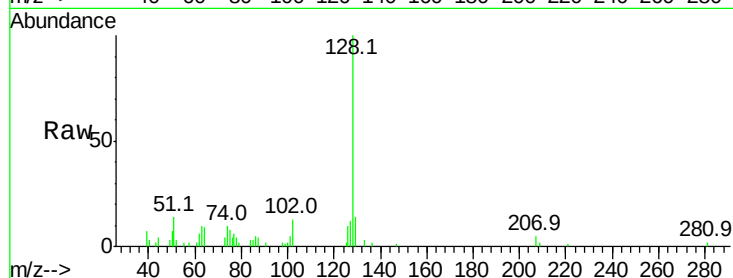
ClientSampleId :

CB368

Tot Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.1	13.7#
127	12.4	10.6	15.8

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#8

Acenaphthylene

Concen: 1.97 ng/ul

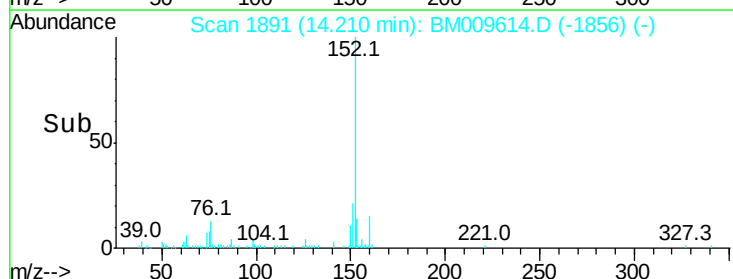
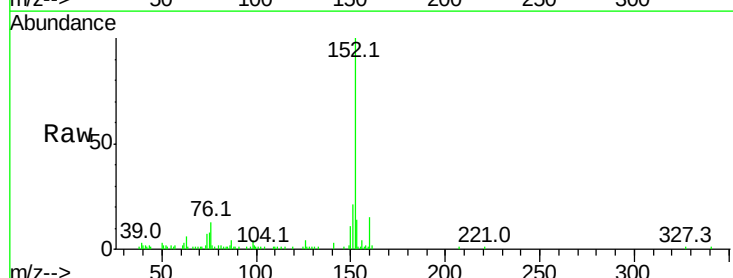
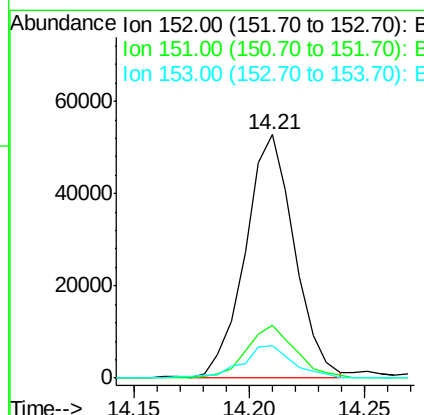
RT: 14.21 min Scan# 1891

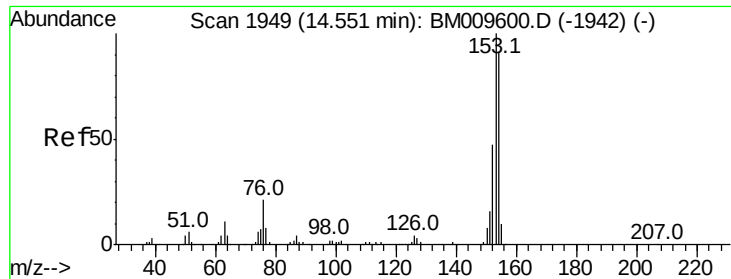
Delta R.T. 0.01 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.5	26.3
153	13.5	10.6	16.0





#9

Acenaphthene

Concen: 1.10 ng/ul

RT: 14.55 min Scan# 1949

Delta R.T. 0.00 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Instrument :

BNA_M

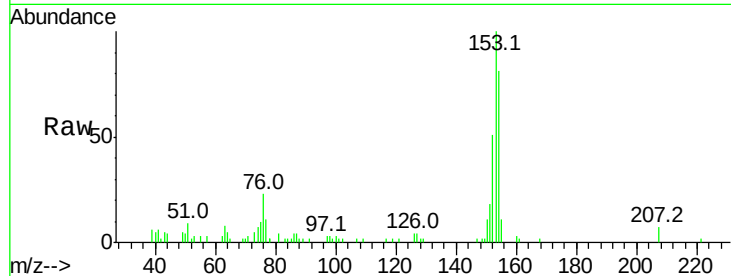
ClientSampled :

CB368

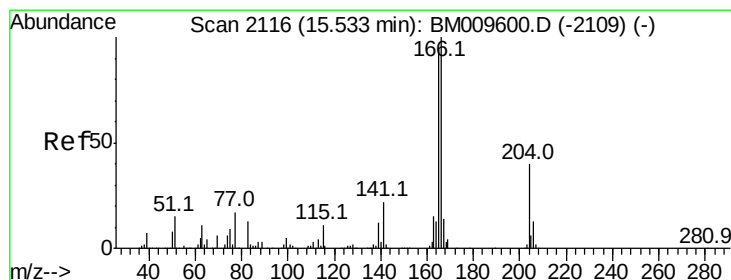
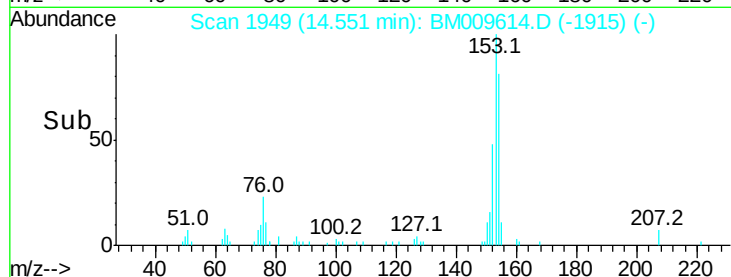
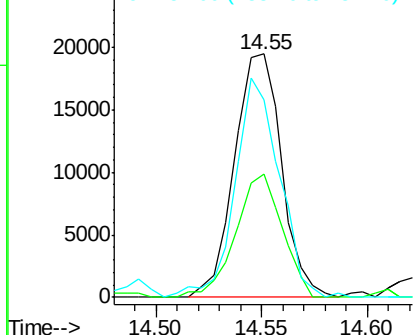
Tot Ion:	153	Resp:	30207
Ion	Ratio	Lower	Upper
153	100		
152	50.8	37.9	56.9
154	81.0	71.6	107.4

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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



#11

Fluorene

Concen: 1.06 ng/ul

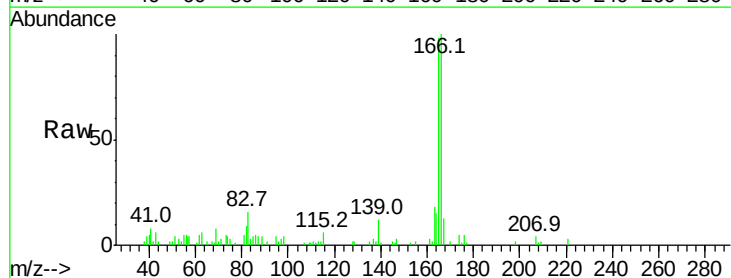
RT: 15.54 min Scan# 2117

Delta R.T. 0.01 min

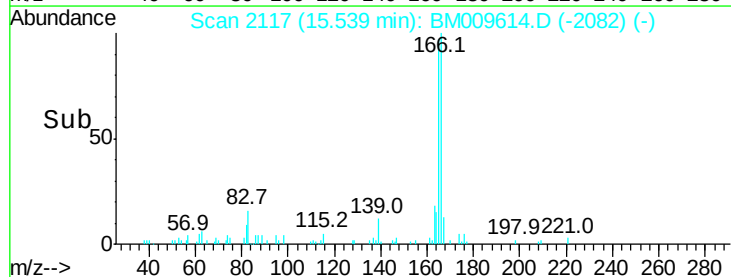
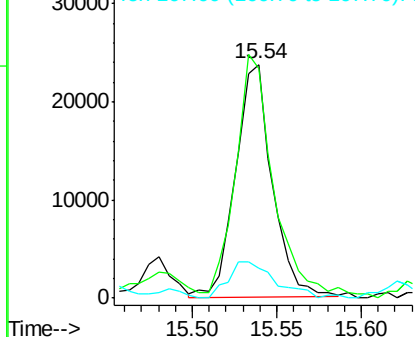
Lab File: BM009614.D

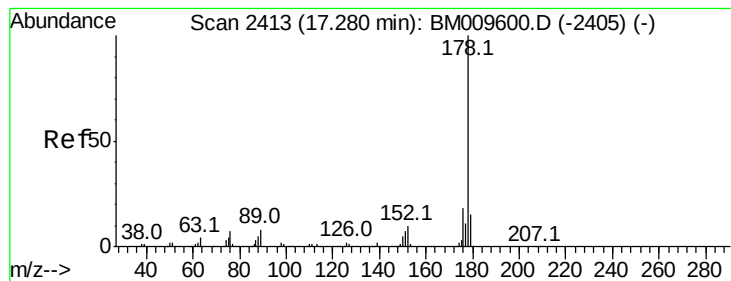
Acq: 07 Apr 2017 03:24

Tgt Ion:	166	Resp:	35649
Ion	Ratio	Lower	Upper
166	100		
165	98.1	80.0	120.0
167	12.7	11.6	17.4



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





#14

Phenanthrene

Concen: 15.07 ng/ul

RT: 17.28 min Scan# 2413

Delta R.T. 0.00 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Instrument :

BNA_M

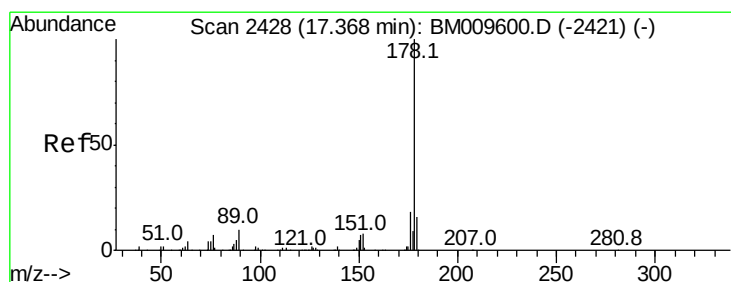
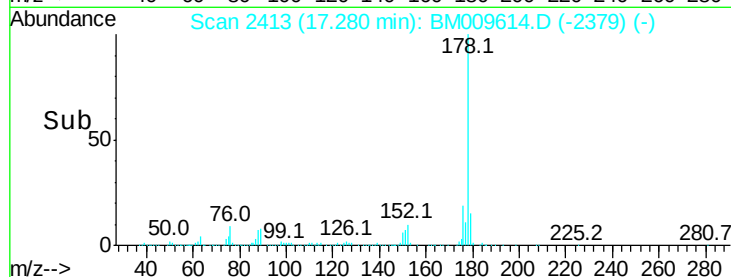
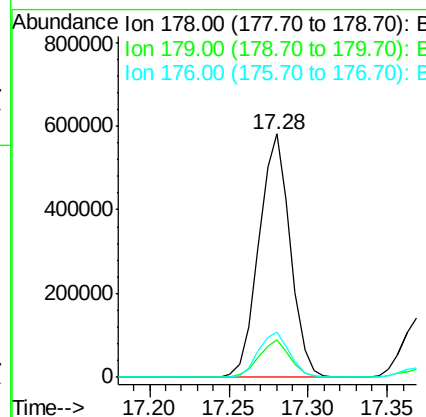
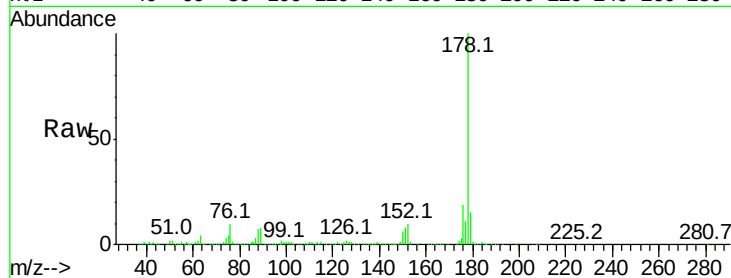
ClientSampleId :

CB368

Tot Ion:178	Resp:	797894
Ion Ratio	Lower	Upper
178	100	
179	15.2	12.2 18.4
176	18.6	16.4 24.6

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#16

Anthracene

Concen: 3.61 ng/ul

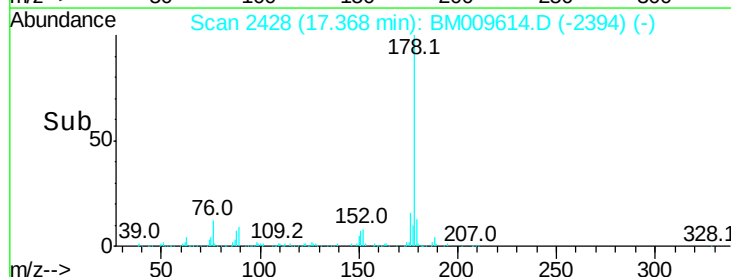
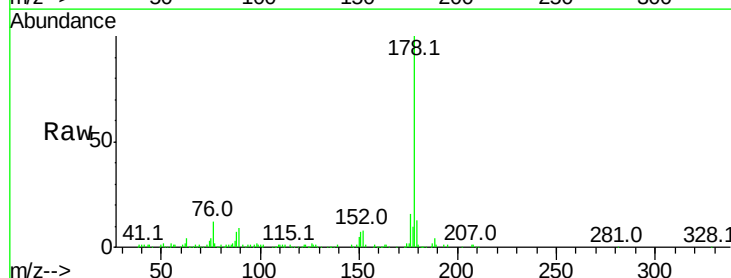
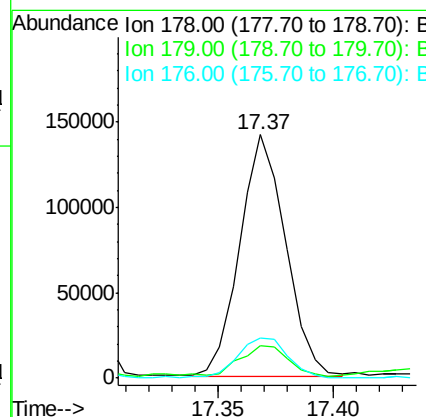
RT: 17.37 min Scan# 2428

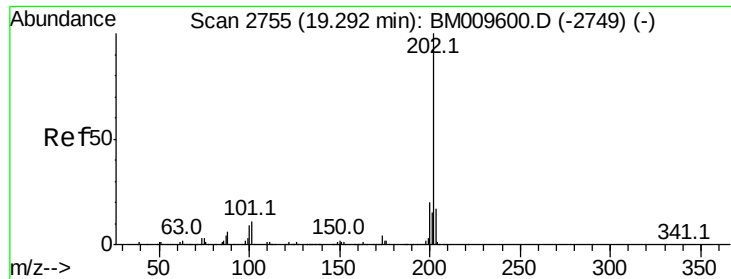
Delta R.T. 0.00 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Tgt Ion:178	Resp:	197495
Ion Ratio	Lower	Upper
178	100	
179	13.4	12.7 19.1
176	16.2	15.8 23.8





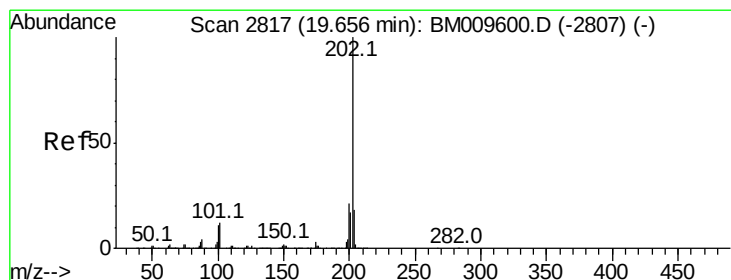
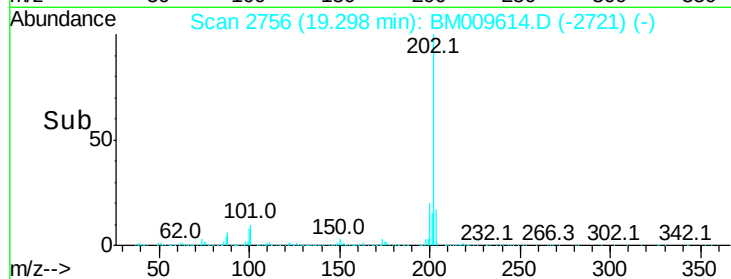
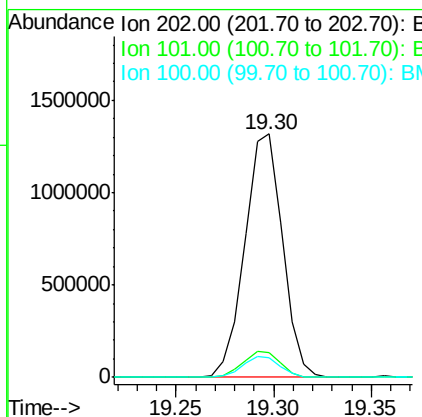
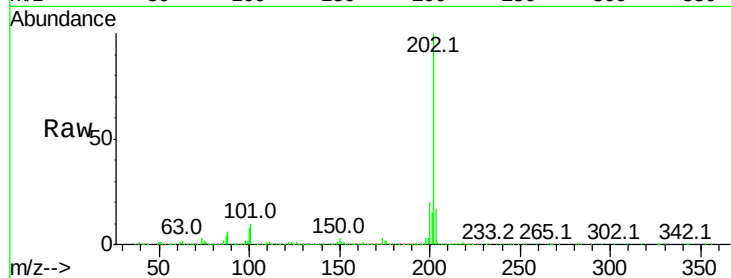
#17
 Fluoranthene
 Concen: 26.77 ng/ul
 RT: 19.30 min Scan# 2756
 Delta R.T. 0.01 min
 Lab File: BM009614.D
 Acq: 07 Apr 2017 03:24

Instrument :
 BNA_M
 ClientSampleId :
 CB368

Tot Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.8	14.8
100	8.0	7.5	11.3

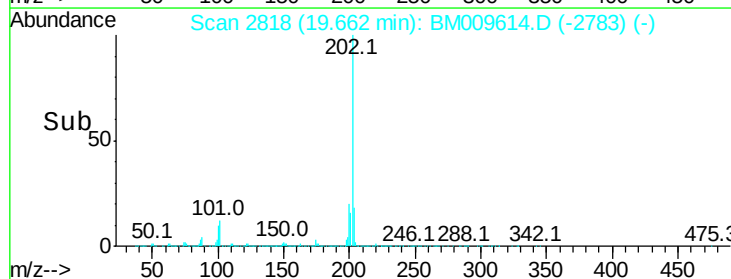
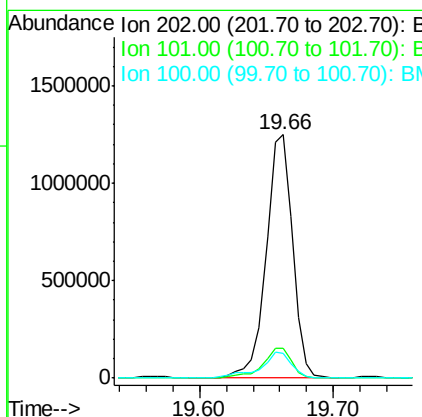
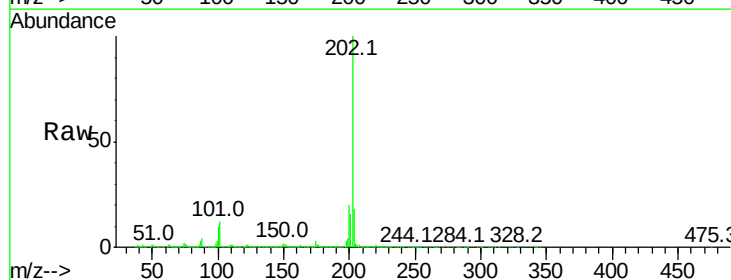
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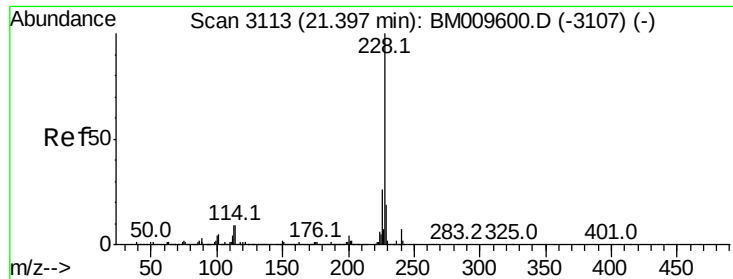
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#20
 Pyrene
 Concen: 25.85 ng/ul
 RT: 19.66 min Scan# 2818
 Delta R.T. 0.01 min
 Lab File: BM009614.D
 Acq: 07 Apr 2017 03:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	11.2	16.8
100	10.4	9.8	14.6





#21

Benzo(a)anthracene

Concen: 14.72 ng/ul

RT: 21.40 min Scan# 3114

Delta R.T. 0.01 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Instrument :

BNA_M

ClientSampled :

CB368

Tot Ion:228 Resp: 1016565

Ion Ratio Lower Upper

228 100

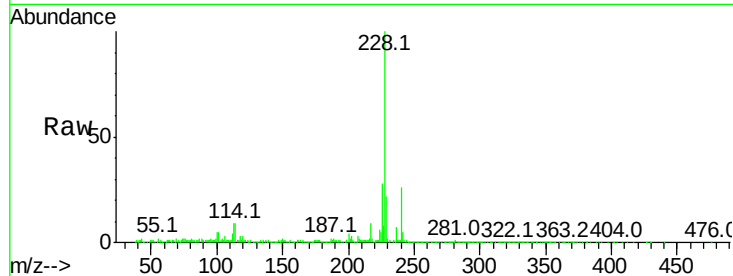
229 21.6 15.9 23.9

226 28.0 22.1 33.1

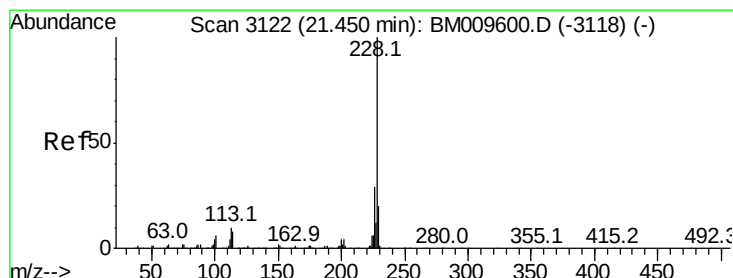
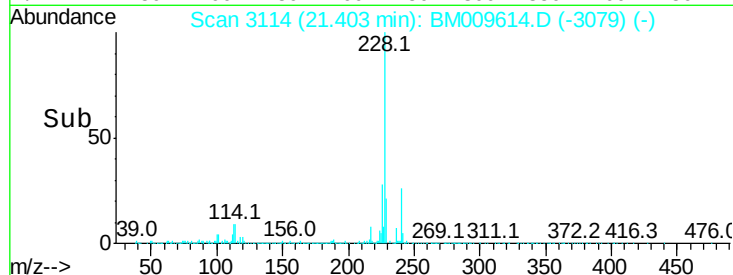
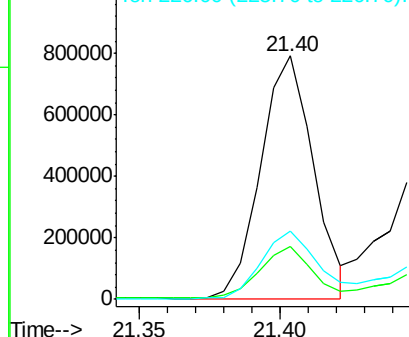
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 15.92 ng/ul

RT: 21.46 min Scan# 3123

Delta R.T. 0.01 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Tgt Ion:228 Resp: 1007432

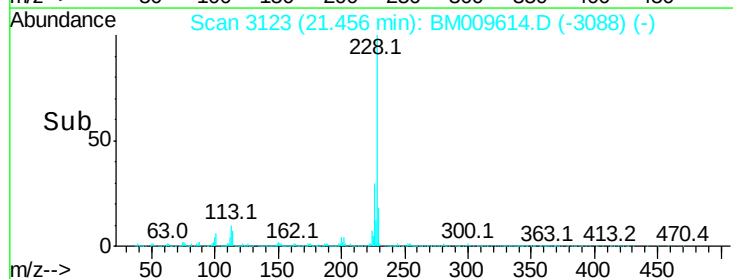
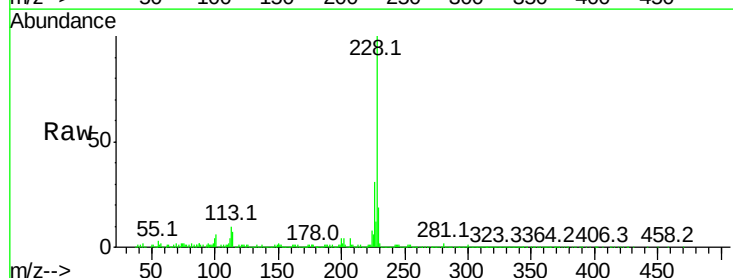
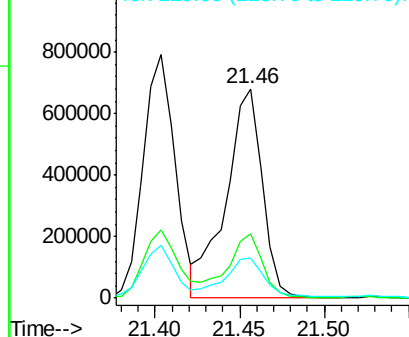
Ion Ratio Lower Upper

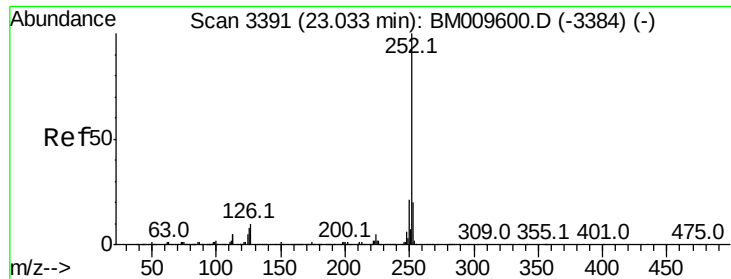
228 100

226 30.6 25.0 37.6

229 19.1 16.6 25.0

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





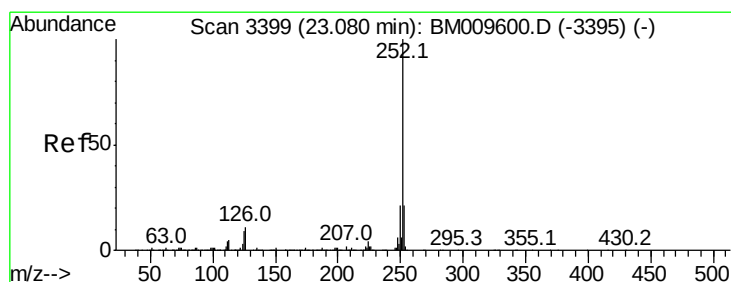
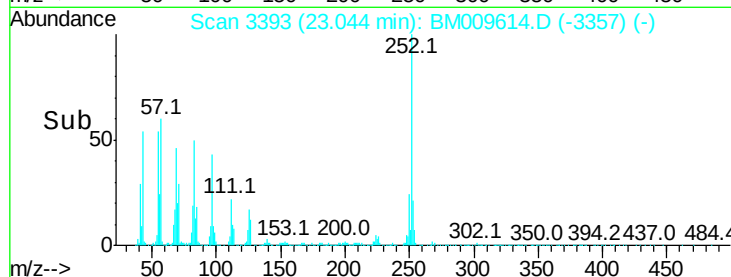
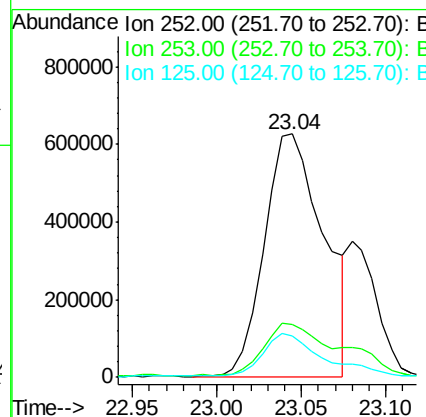
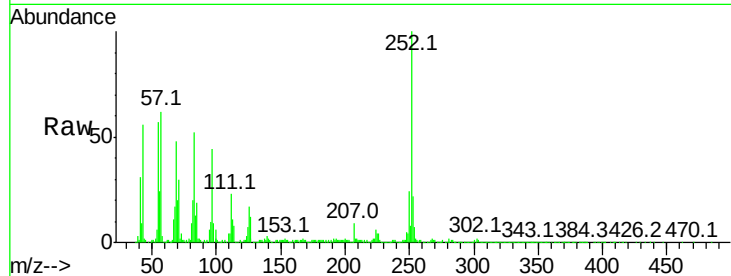
#24
Benzo(b)fluoranthene
Concen: 21.09 ng/ul
RT: 23.04 min Scan# 3393
Delta R.T. 0.01 min
Lab File: BM009614.D
Acq: 07 Apr 2017 03:24

Instrument :
BNA_M
ClientSampleId :
CB368

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	17.2	9.4	14.0

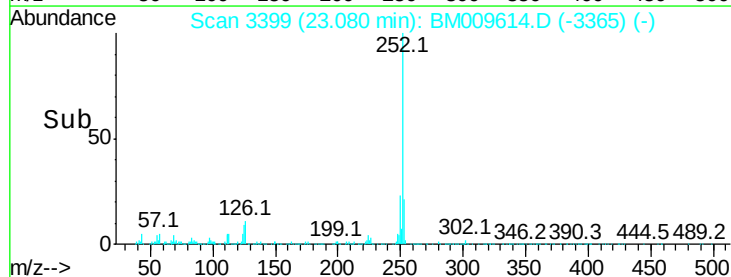
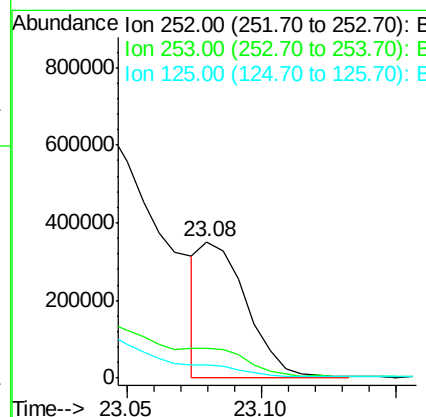
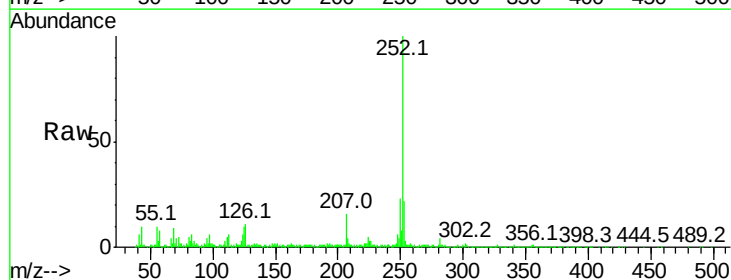
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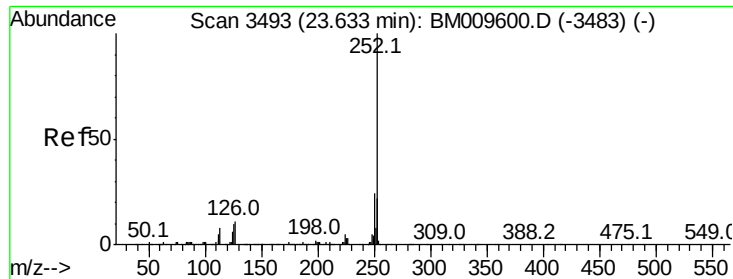
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#25
Benzo(k)fluoranthene
Concen: 6.14 ng/ul m
RT: 23.08 min Scan# 3399
Delta R.T. 0.00 min
Lab File: BM009614.D
Acq: 07 Apr 2017 03:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	9.9	8.8	13.2





#27

Benzo(a)pyrene

Concen: 14.95 ng/ul

RT: 23.64 min Scan# 3495

Delta R.T. 0.01 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

Instrument :

BNA_M

ClientSampled :

CB368

Tot Ion:252 Resp: 1022040

Ion Ratio Lower Upper

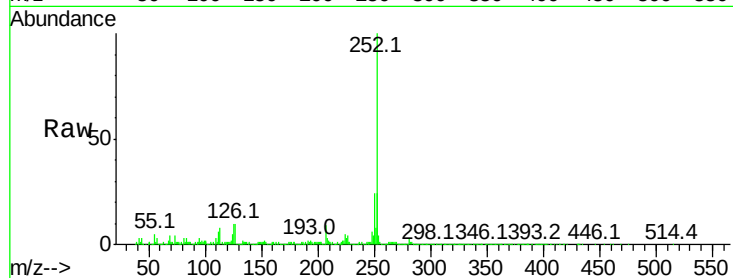
252 100

253 23.6 17.1 25.7

125 10.1 9.4 14.2

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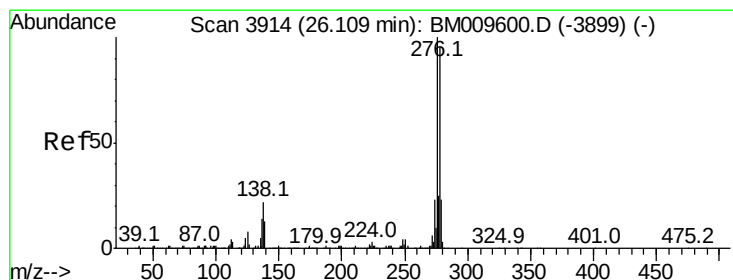
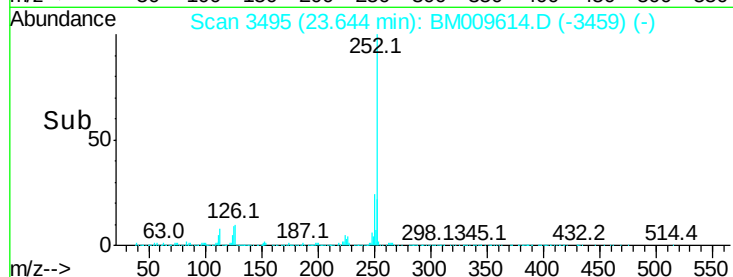
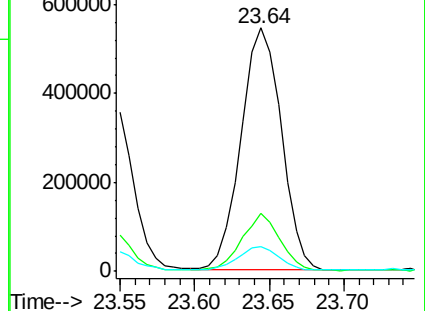
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Abundance Ion 252.00 (251.70 to 252.70): E

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: 9.76 ng/ul

RT: 26.11 min Scan# 3914

Delta R.T. 0.00 min

Lab File: BM009614.D

Acq: 07 Apr 2017 03:24

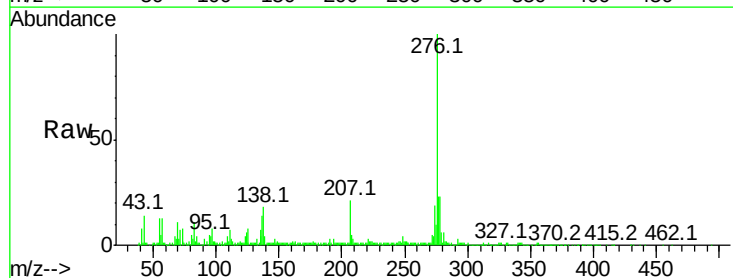
Tgt Ion:276 Resp: 748201

Ion Ratio Lower Upper

276 100

138 18.2 17.8 26.6

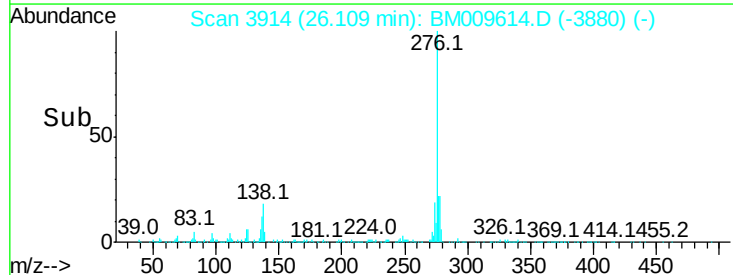
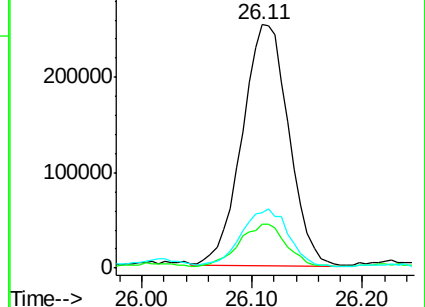
277 22.8 19.4 29.0

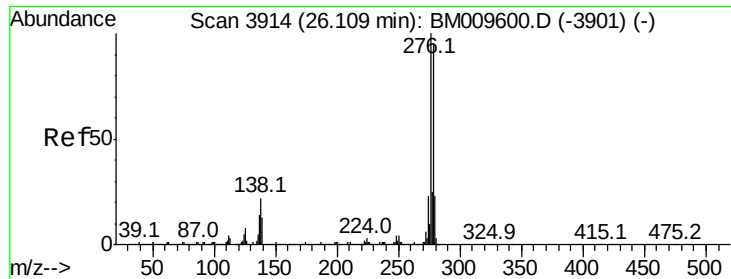


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





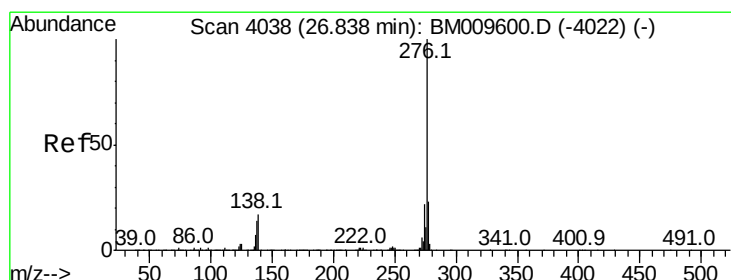
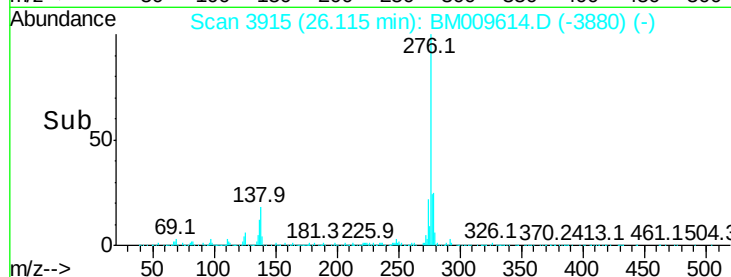
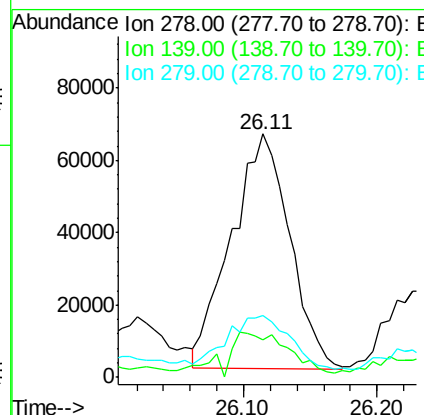
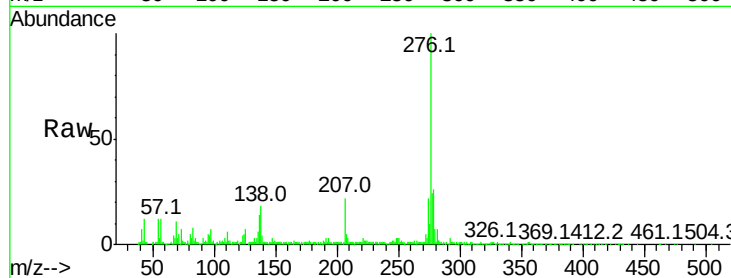
#29
Dibenzo(a,h)anthracene
Concen: 3.02 ng/ul
RT: 26.11 min Scan# 3915
Delta R.T. 0.01 min
Lab File: BM009614.D
Acq: 07 Apr 2017 03:24

Instrument :
BNA_M
ClientSampleId :
CB368

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.4	14.0	21.0
279	25.3	20.6	31.0

Manual Integrations
APPROVED

mohammad
4/7/2017 2:10:51 PM



#30
Benzo(g,h,i)perylene
Concen: 11.53 ng/ul
RT: 26.84 min Scan# 4039
Delta R.T. 0.01 min
Lab File: BM009614.D
Acq: 07 Apr 2017 03:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.2	19.0	28.4#
277	24.9	19.7	29.5

