

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052516\
 Data File : BM005648.D
 Acq On : 25 May 2016 21:51
 Operator : UM/SJ
 Sample : H3086-18
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

Manual Integrations
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 5/26/2016 2:23:29 AM

Quant Time: May 26 00:58:44 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed May 25 19:26:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	114015	20.00	ng/ul	0.00
18) Naphthalene-d8	10.58	136	578234	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.43	164	346157	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.18	188	753899	20.00	ng/ul	0.01
75) Chrysene-d12	21.37	240	633209	20.00	ng/ul	0.02
83) Perylene-d12	23.64	264	565370	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.24	96	5905	2.27	ng/uL	0.00
5) Phenol-d5	6.97	99	191247	20.46	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.12	67	105523	19.48	ng/ul	0.00
9) 2-Chlorophenol-d4	7.33	132	149397	19.16	ng/ul	0.00
13) 4-Methylphenol-d8	8.51	113	172335	22.50	ng/ul	0.01
19) Nitrobenzene-d5	8.95	128	82458	18.65	ng/ul	0.00
22) 2-Nitrophenol-d4	9.66	143	93513	19.22	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.21	165	178135	19.44	ng/ul	0.00
29) 4-Chloroaniline-d4	10.72	131	214541	23.37	ng/ul	0.00
43) Dimethylphthalate-d6	13.84	166	564988	19.99	ng/ul	0.00
46) Acenaphthylene-d8	14.12	160	731959	20.72	ng/ul	0.00
51) 4-Nitrophenol-d4	14.66	143	83997	15.72	ng/ul	0.01
57) Fluorene-d10	15.42	176	511815	20.82	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.56	200	40363	9.31	ng/ul	0.01
70) Anthracene-d10	17.28	188	775530	21.60	ng/ul	0.01
76) Pyrene-d10	19.57	212	794725	27.71	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.50	264	581729	22.04	ng/ul	0.03

Target Compounds

					Ovalue
28) Naphthalene	10.63	128	319176	10.99 ng/ul	99
34) 2-Methylnaphthalene	12.24	142	101699	4.78 ng/ul	98
40) 1,1'-Biphenyl	13.26	154	71262	2.45 ng/ul	97
44) Dimethylphthalate	13.88	163	157946	5.66 ng/ul	99
47) Acenaphthylene	14.15	152	579916	16.16 ng/ul	97
49) Acenaphthene	14.49	153	134211	5.67 ng/ul	99
53) Dibenzofuran	14.83	168	193001	5.71 ng/ul	99
58) Fluorene	15.48	166	433721	16.04 ng/ul	100
64) N-Nitrosodiphenylamine	15.69	169	31643	1.38 ng/ul	95
69) Phenanthrene	17.23	178	3357752	79.69 ng/ul	98
71) Anthracene	17.31	178	954058	22.22 ng/ul	100
72) Carbazole	17.58	167	107470	2.88 ng/ul	92
74) Fluoranthene	19.25	202	4113417	86.73 ng/ul	100
77) Pyrene	19.62	202	4343108	119.31 ng/ul	97
79) 3,3'-Dichlorobenzidine	21.28	252	12919	1.13 ng/ul#	91
80) Benzo(a)anthracene	21.35	228	1511033	40.60 ng/ul#	87
82) Chrysene	21.40	228	1615847	45.63 ng/ul	95
85) Benzo(b)fluoranthene	22.96	252	1372199	41.15 ng/ul#	95
86) Benzo(k)fluoranthene	23.00	252	448161m	14.20 ng/ul	
88) Benzo(a)pyrene	23.55	252	1260759	38.98 ng/ul	97
89) Indeno(1,2,3-cd)pyrene	25.96	276	644026	16.76 ng/ul	99
90) Dibenzo(a,h)anthracene	25.96	278	153767	4.81 ng/ul#	85
91) Benzo(g,h,i)perylene	26.68	276	626505	19.40 ng/ul	97

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Quant Title : SVOA CALIBRATION
QLast Update : Wed May 25 19:26:23 2016
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

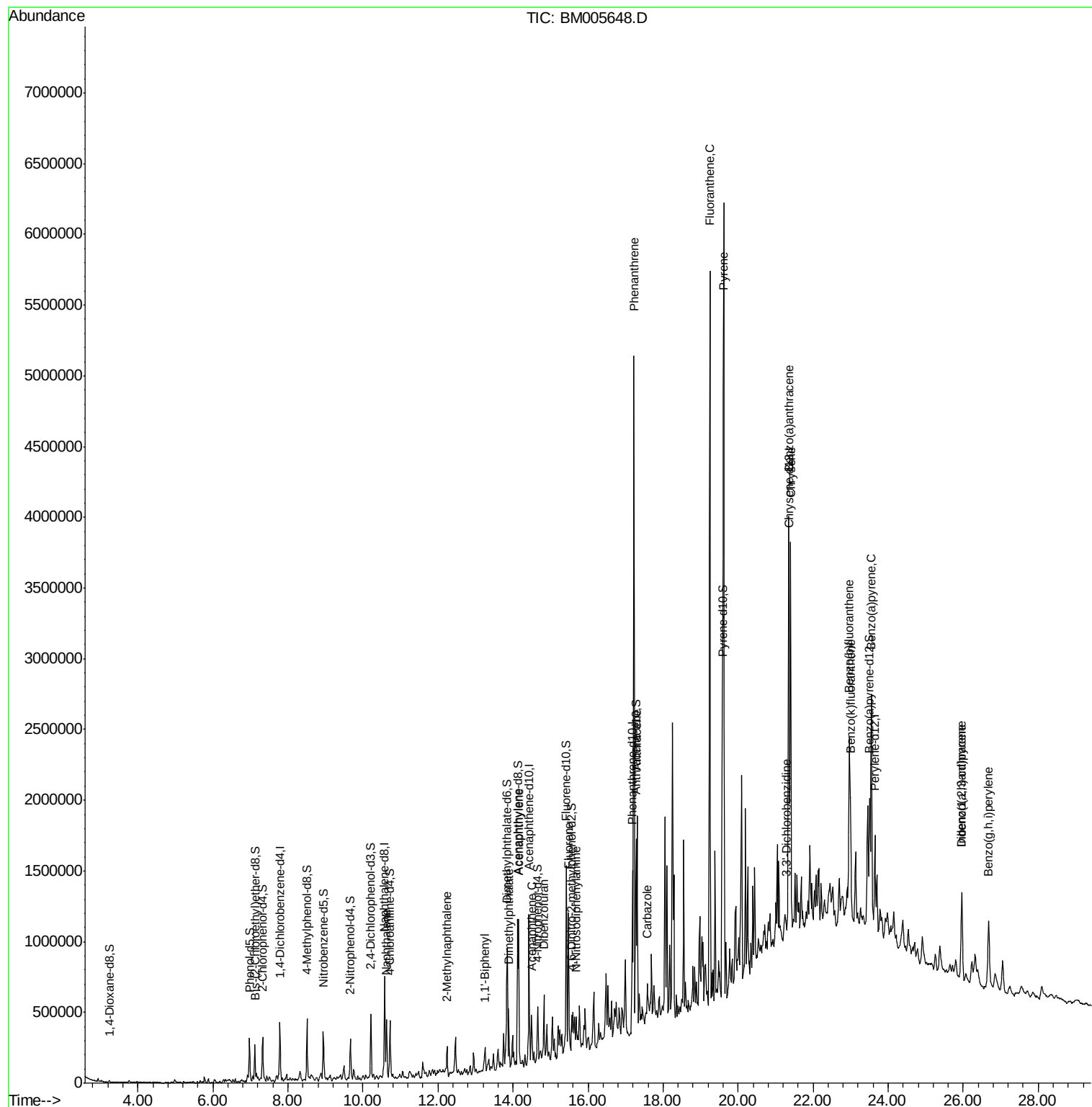
Data Path : Z:\HPCHEM1\BNA M\DATA\BM052516\
Data File : BM005648.D
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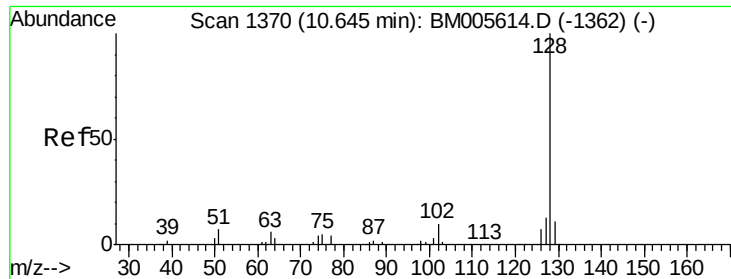
Instrument :
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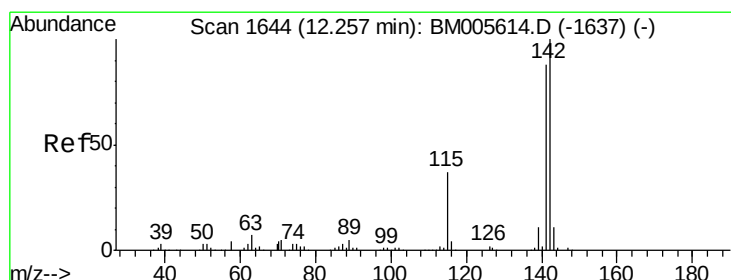
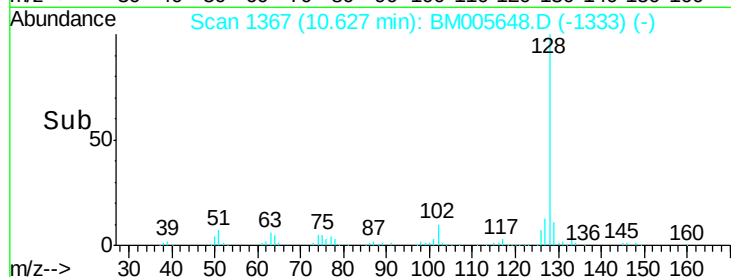
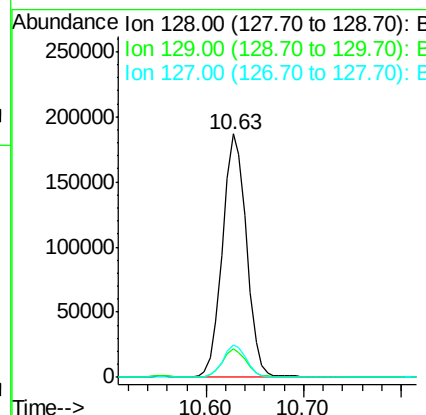
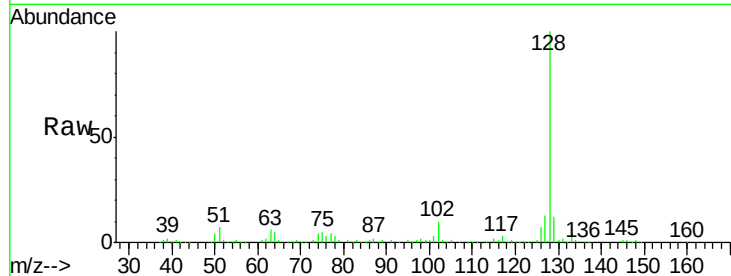
#28
Naphthalene
Concen: 10.99 ng/ul
RT: 10.63 min Scan# 1367
Delta R.T. -0.00 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampled :
JHGL2

Tot Ion	Ratio	Resp	Lower	Upper
128	100	319176		
129	11.6		8.6	13.0
127	13.1		10.6	15.8

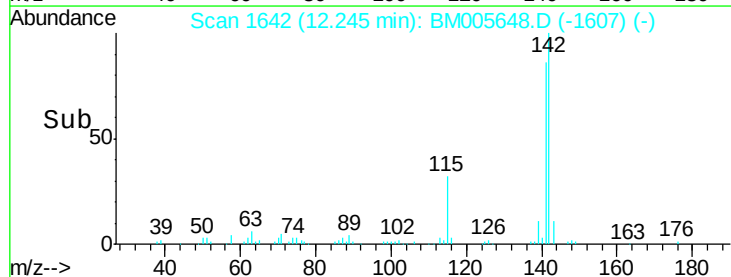
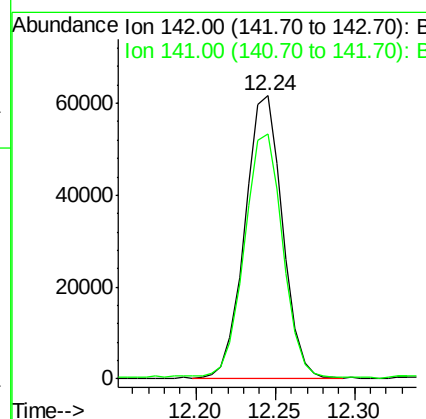
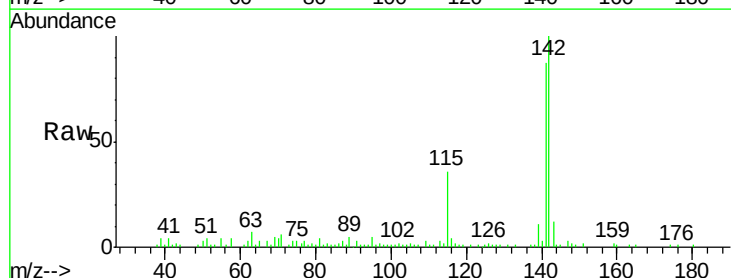
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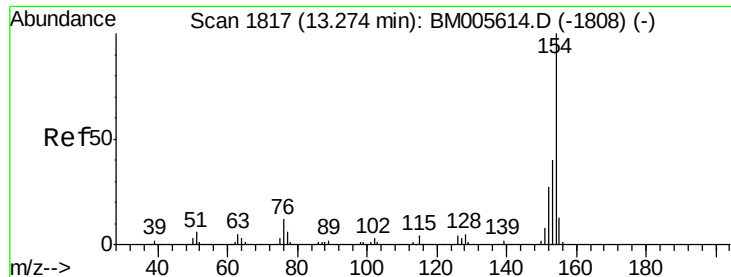
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#34
2-Methylnaphthalene
Concen: 4.78 ng/ul
RT: 12.24 min Scan# 1642
Delta R.T. 0.01 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	101699		
141	86.7		70.6	106.0





#40

1,1'-Biphenyl

Concen: 2.45 ng/ul

RT: 13.26 min Scan# 1814

Delta R.T. -0.00 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

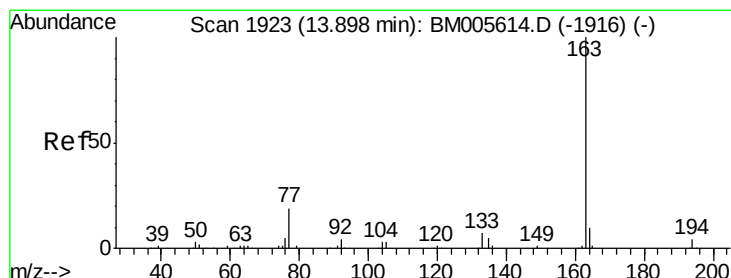
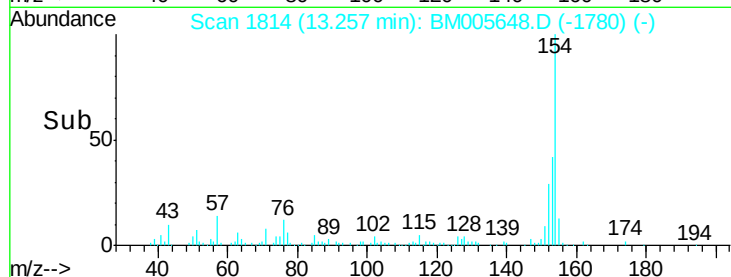
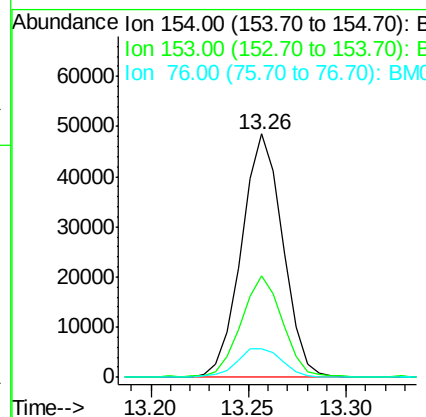
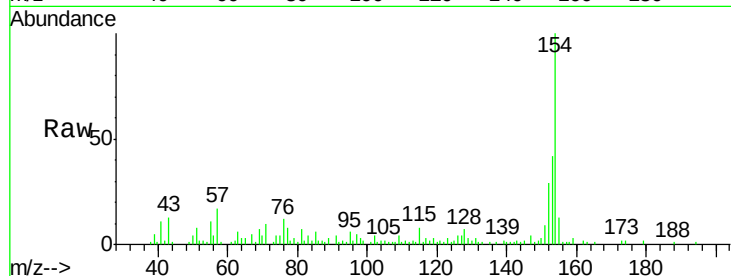
ClientSampleId :

JHGL2

Tot Ion:	154	Resp:	71262
Ion Ratio	Lower	Upper	
154	100		
153	41.5	31.7	47.5
76	11.8	10.1	15.1

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#44

Dimethylphthalate

Concen: 5.66 ng/ul

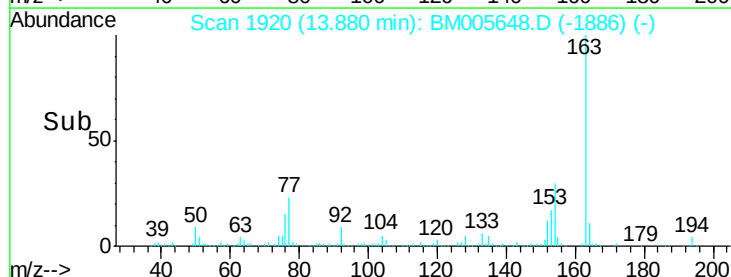
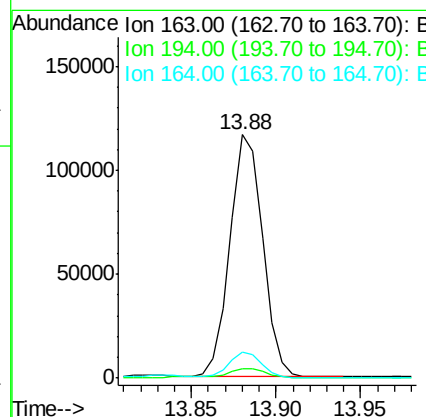
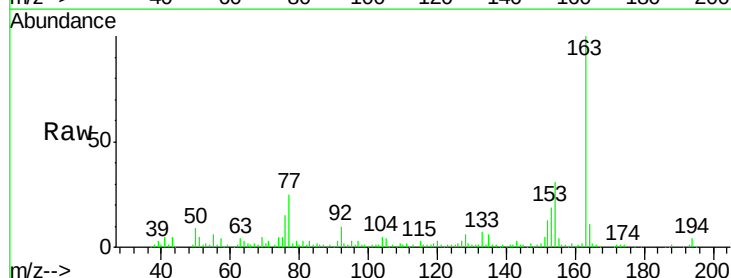
RT: 13.88 min Scan# 1920

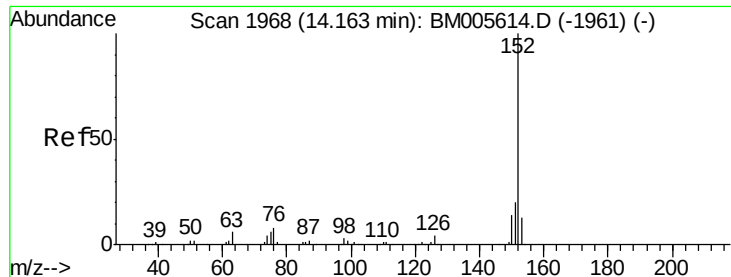
Delta R.T. -0.00 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Tgt Ion:	163	Resp:	157946
Ion Ratio	Lower	Upper	
163	100		
194	4.0	3.4	5.0
164	10.6	8.0	12.0





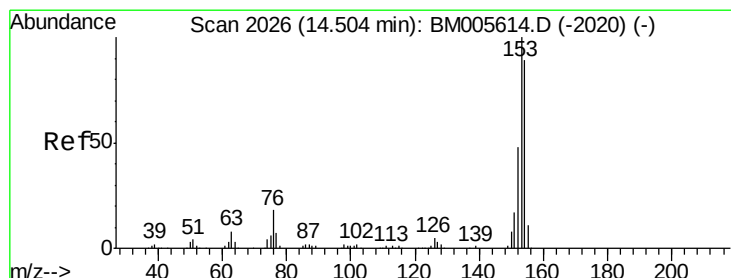
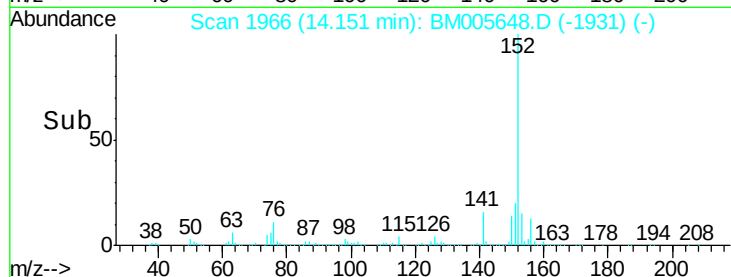
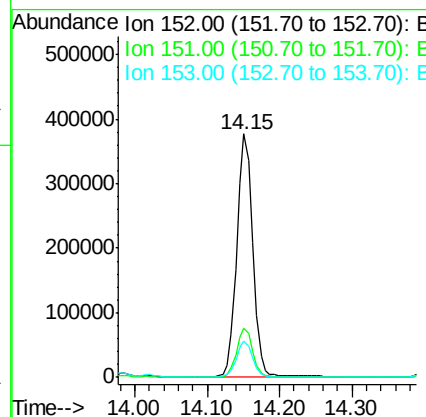
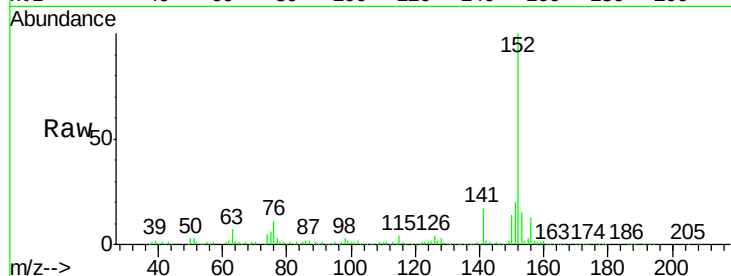
#47
Acenaphthylene
Concen: 16.16 ng/ul
RT: 14.15 min Scan# 1966
Delta R.T. 0.01 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampleId :
JHGL2

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.7	23.5
153	14.9	10.5	15.7

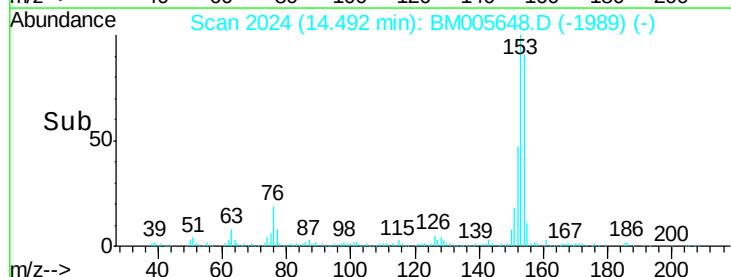
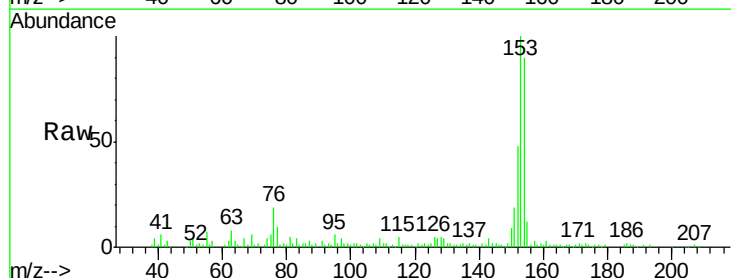
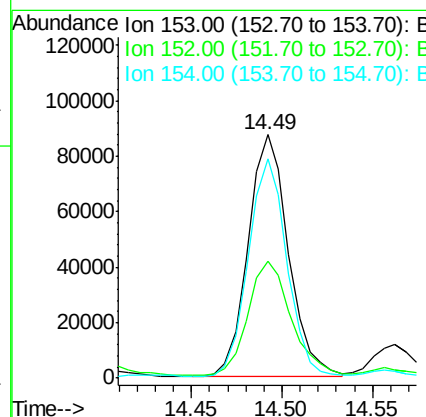
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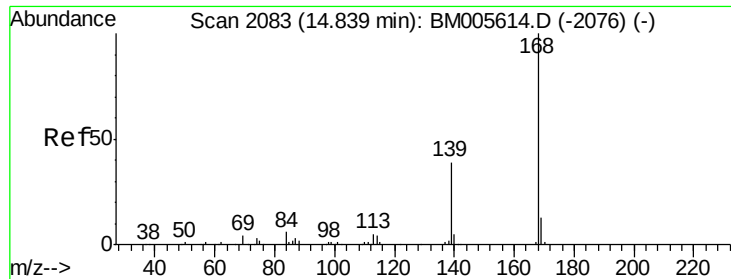
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#49
Acenaphthene
Concen: 5.67 ng/ul
RT: 14.49 min Scan# 2024
Delta R.T. 0.01 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Lower	Upper
153	100		
152	48.2	37.8	56.6
154	90.0	71.1	106.7





#53

Dibenzenofuran

Concen: 5.71 ng/ul

RT: 14.83 min Scan# 2081

Delta R.T. 0.01 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

ClientSampled :

JHGL2

Tot Ion:168 Resp: 193001

Ion Ratio Lower Upper

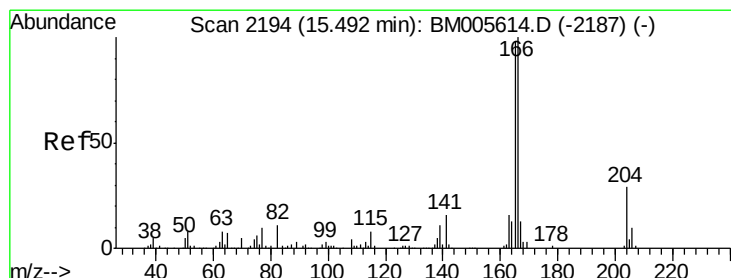
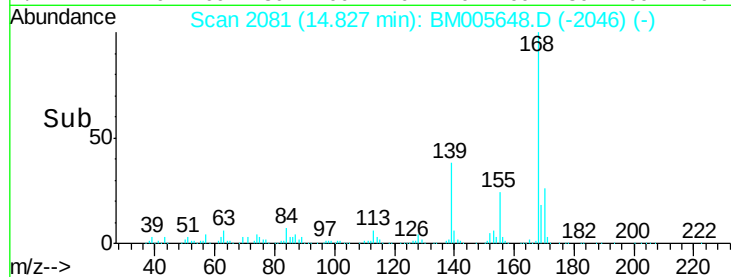
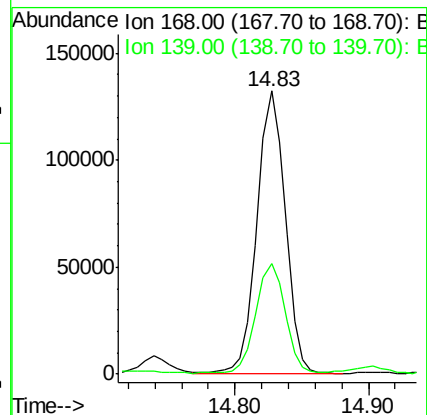
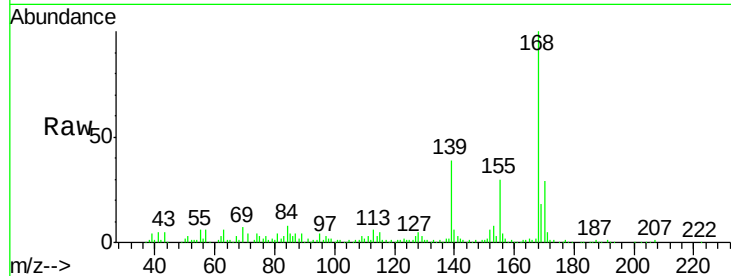
168 100

139 39.1 30.6 46.0

Manual Integrations
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#58

Fluorene

Concen: 16.04 ng/ul

RT: 15.48 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

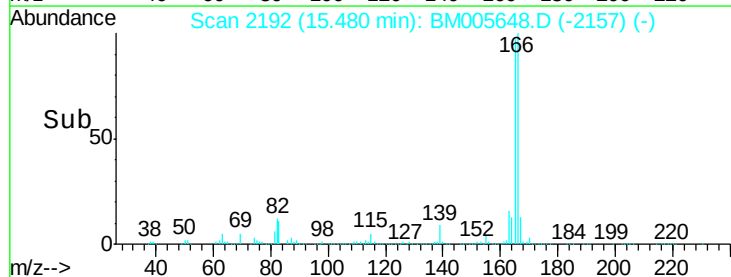
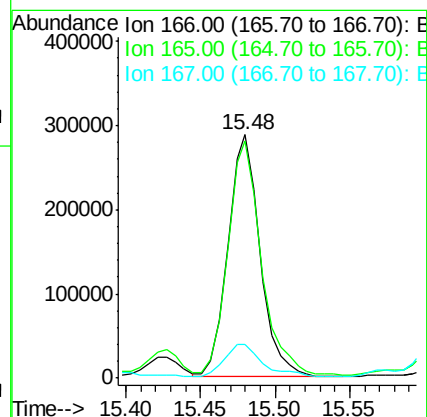
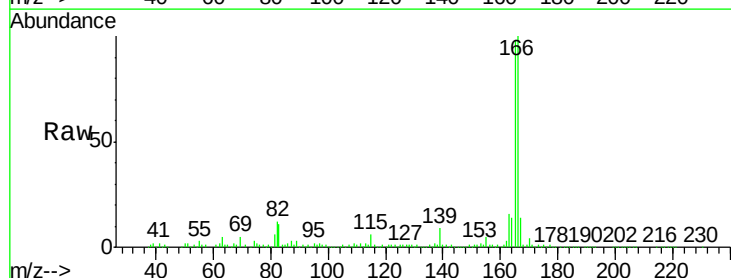
Tgt Ion:166 Resp: 433721

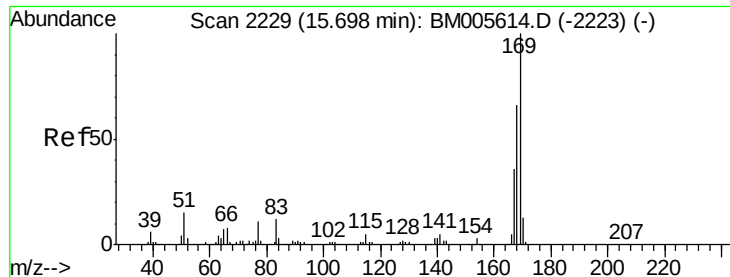
Ion Ratio Lower Upper

166 100

165 97.6 78.0 117.0

167 14.0 10.5 15.7





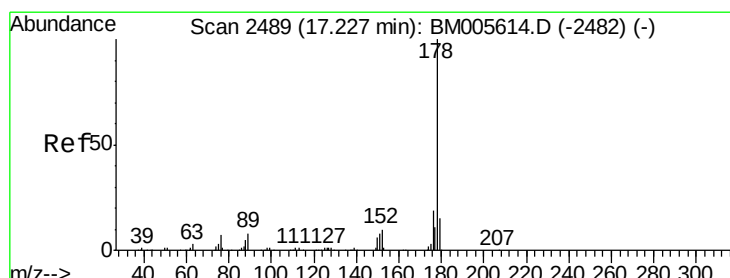
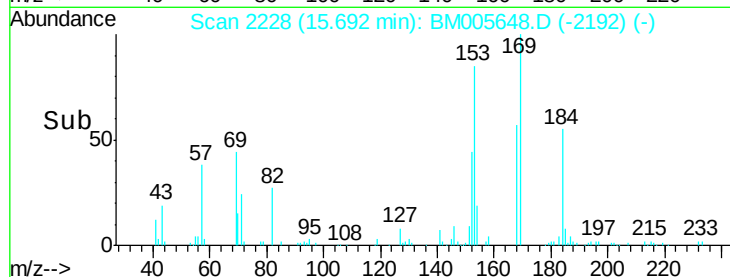
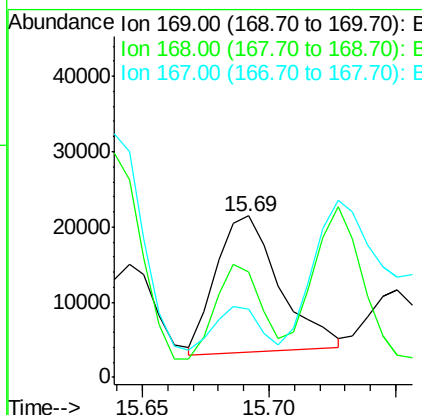
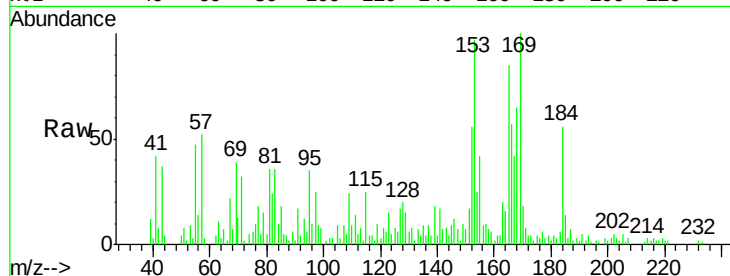
#64
N-Nitrosodiphenylamine
Concen: 1.38 ng/ul
RT: 15.69 min Scan# 2228
Delta R.T. 0.01 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampleId :
JHGL2

Tot Ion	Ratio	Lower	Upper
169	100		
168	65.1	53.2	79.8
167	42.0	28.9	43.3

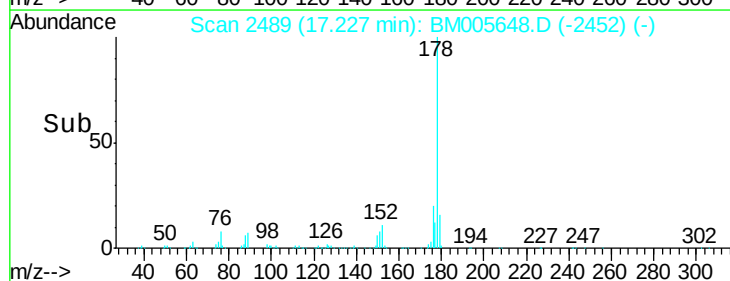
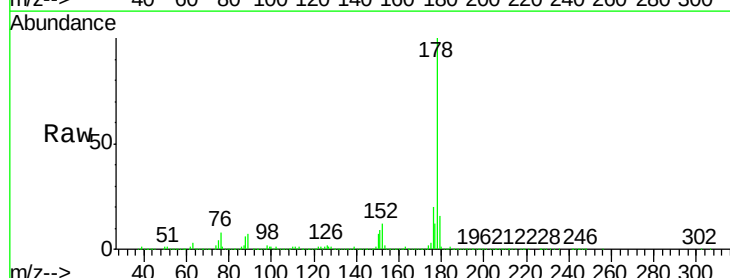
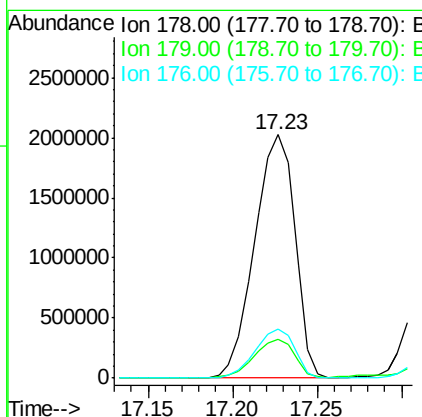
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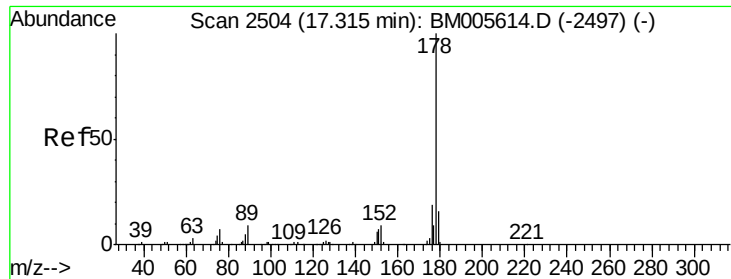
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#69
Phenanthrene
Concen: 79.69 ng/ul
RT: 17.23 min Scan# 2489
Delta R.T. 0.02 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.2	18.2
176	20.4	15.8	23.6





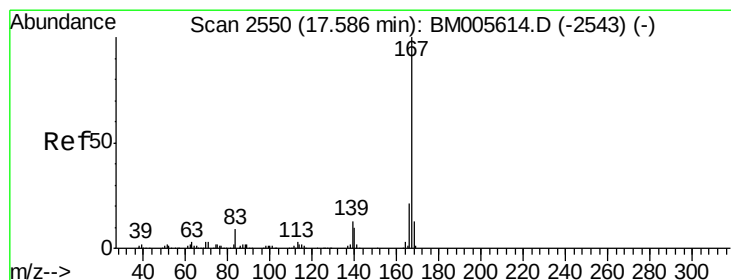
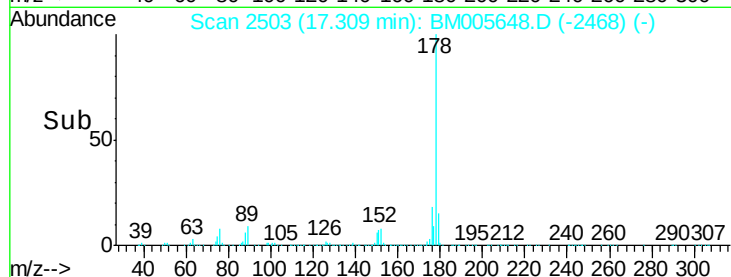
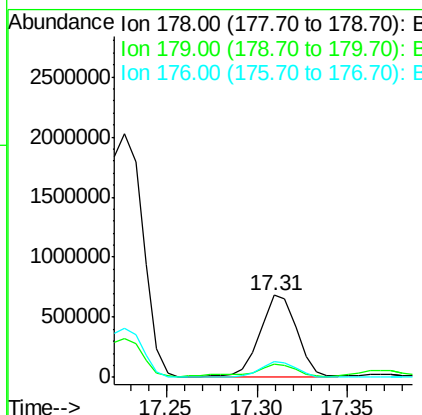
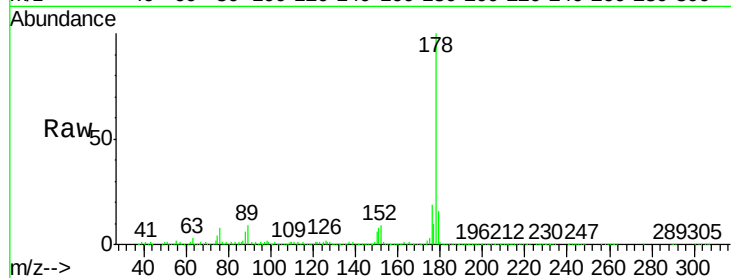
#71
 Anthracene
 Concen: 22.22 ng/ul
 RT: 17.31 min Scan# 2503
 Delta R.T. 0.01 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Instrument :
 BNA_M
 ClientSampled :
 JHGL2

Tot Ion:	178	Resp:	954058
Ion Ratio	Lower	Upper	
178	100		
179	15.8	12.6	18.8
176	18.5	15.0	22.4

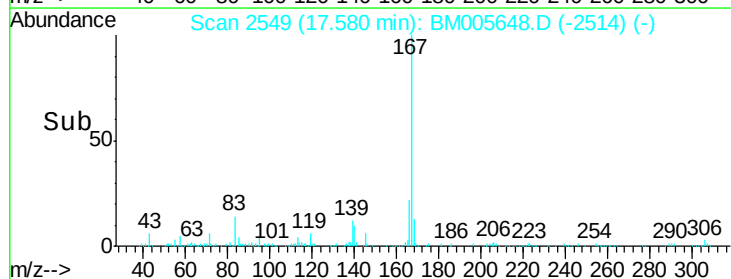
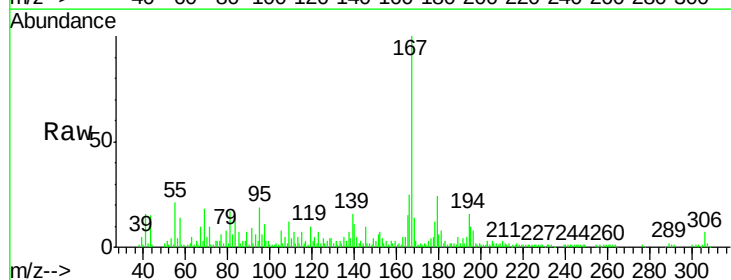
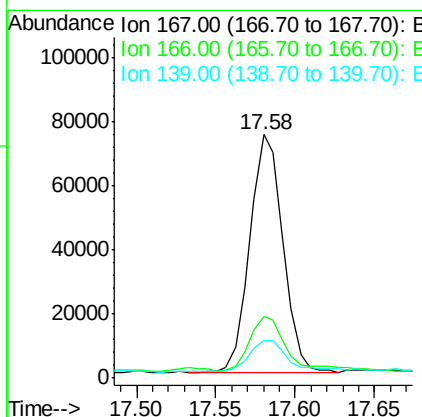
Manual Integrations
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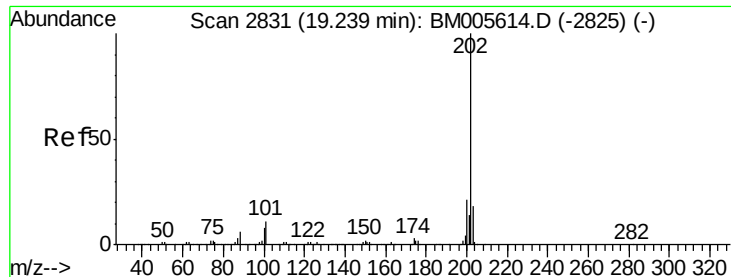
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#72
 Carbazole
 Concen: 2.88 ng/ul
 RT: 17.58 min Scan# 2549
 Delta R.T. 0.01 min
 Lab File: BM005648.D
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Tgt Ion:	167	Resp:	107470
Ion Ratio	Lower	Upper	
167	100		
166	25.2	16.9	25.3
139	15.6	10.6	16.0





#74

Fluoranthene

Concen: 86.73 ng/ul

RT: 19.25 min Scan# 2833

Delta R.T. 0.02 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

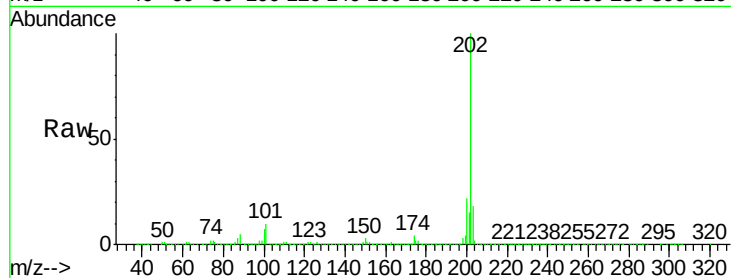
ClientSampleId :

JHGL2

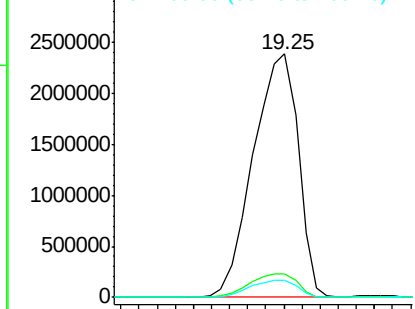
Tot Ion:	202	Resp:	4113417
Ion	Ratio	Lower	Upper
202	100		
101	9.6	7.9	11.9
100	7.0	5.6	8.4

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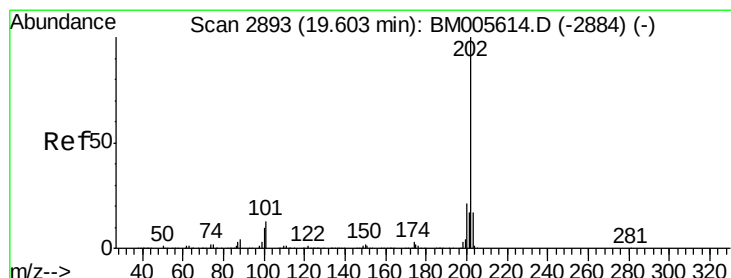
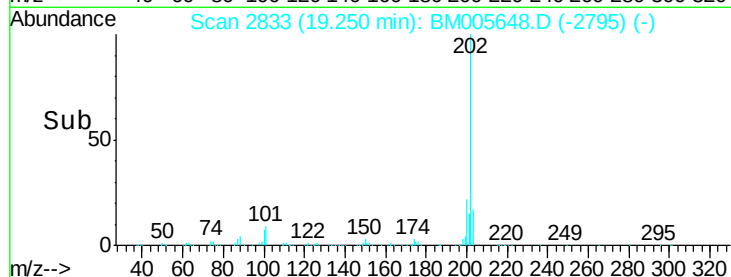
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time-->



#77

Pyrene

Concen: 119.31 ng/ul

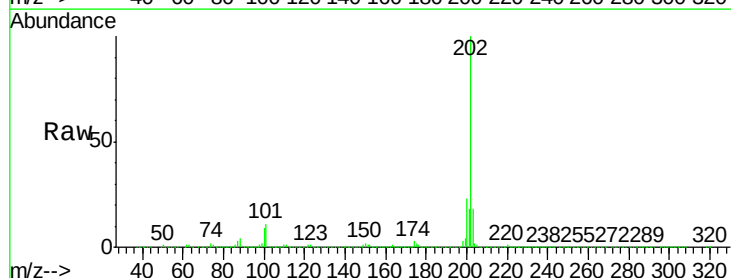
RT: 19.62 min Scan# 2895

Delta R.T. 0.03 min

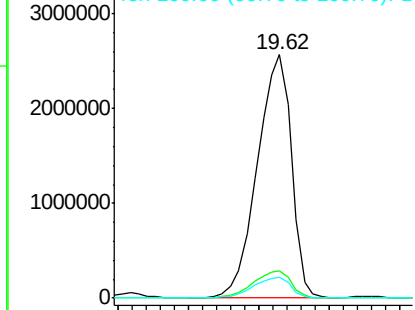
Lab File: BM005648.D

Acq: 25 May 2016 21:51

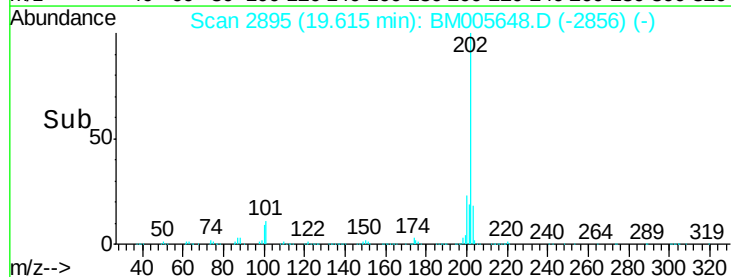
Tgt Ion:	202	Resp:	4343108
Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.6	14.4
100	8.5	7.8	11.6

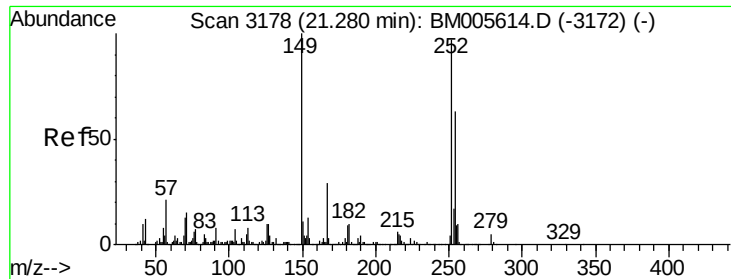


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time-->





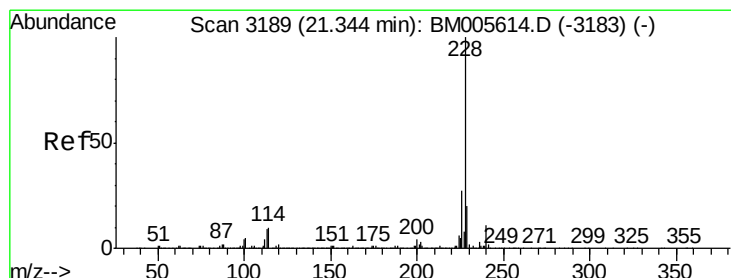
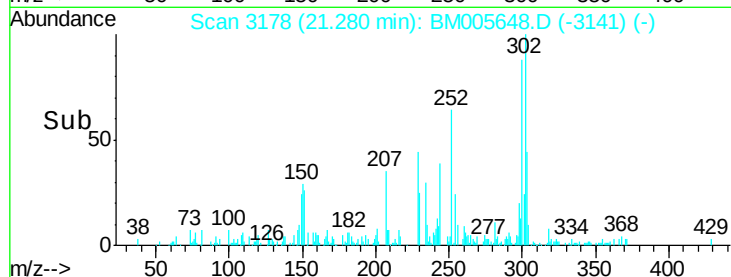
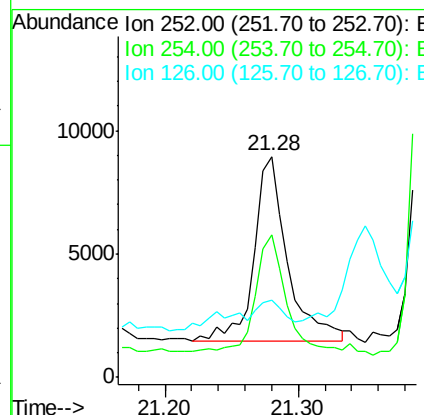
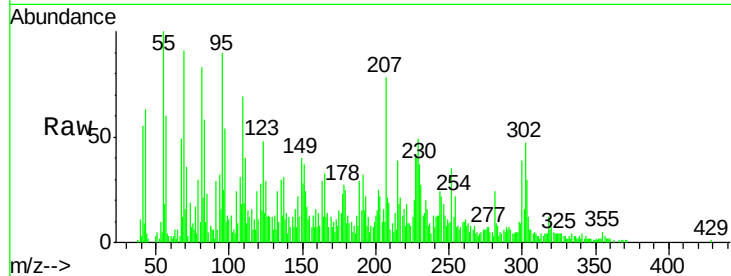
#79
 3,3'-Dichlorobenzidine
 Concen: 1.13 ng/ul
 RT: 21.28 min Scan# 3178
 Delta R.T. 0.02 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Instrument :
 BNA_M
 ClientSampled :
 JHGL2

Tot Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.7	77.5
126	34.9	7.9	11.9

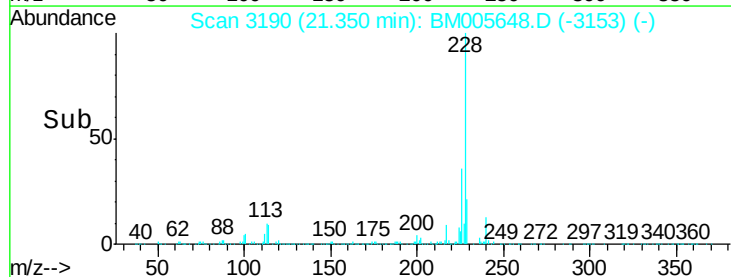
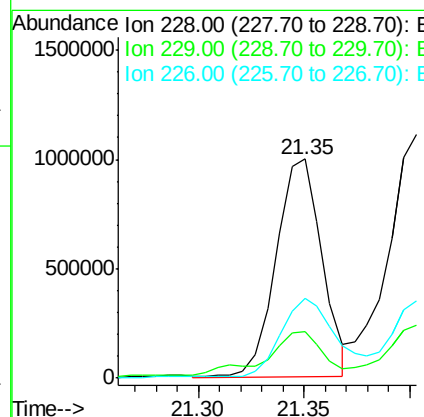
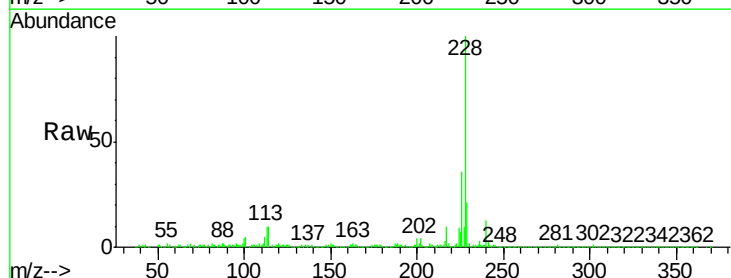
Manual Integrations
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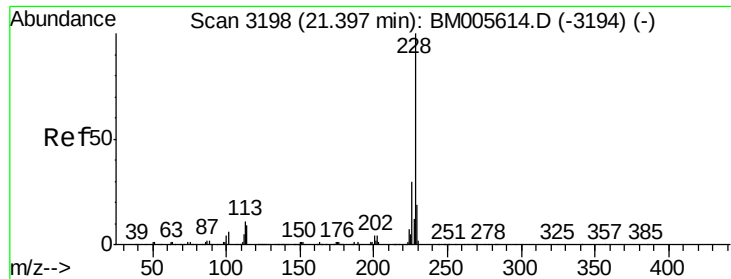
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#80
 Benzo(a)anthracene
 Concen: 40.60 ng/ul
 RT: 21.35 min Scan# 3190
 Delta R.T. 0.02 min
 Lab File: BM005648.D
 Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.2	15.4	23.2
226	36.3	21.0	31.4





#82

Chrysene

Concen: 45.63 ng/ul

RT: 21.40 min Scan# 3199

Delta R.T. 0.02 min

Lab File: BM005648.D

Acq: 25 May 2016 21:51

Instrument :

BNA_M

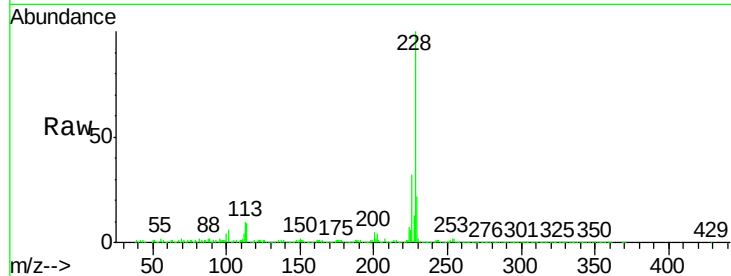
ClientSampled :

JHGL2

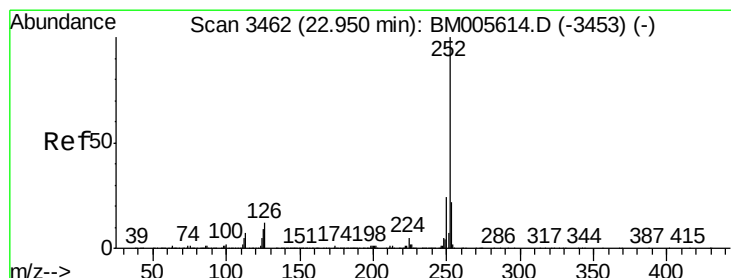
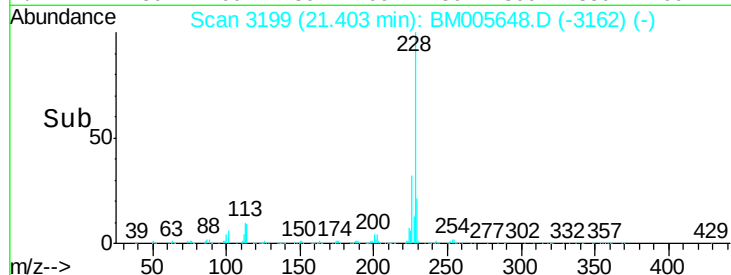
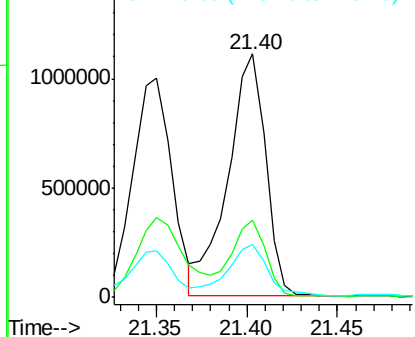
Tot Ion:	228	Resp:	1615847
Ion	Ratio	Lower	Upper
228	100		
226	31.8	23.7	35.5
229	21.9	15.5	23.3

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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



#85

Benzo(b)fluoranthene

Concen: 41.15 ng/ul

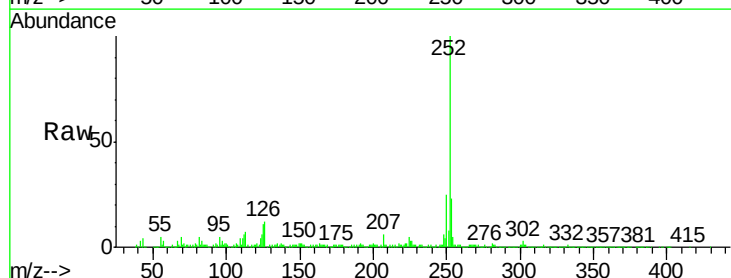
RT: 22.96 min Scan# 3464

Delta R.T. 0.03 min

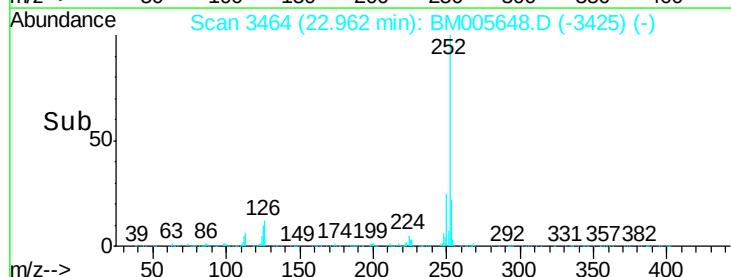
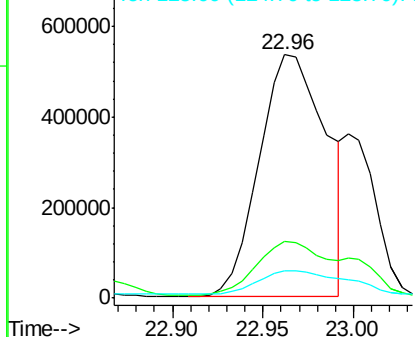
Lab File: BM005648.D

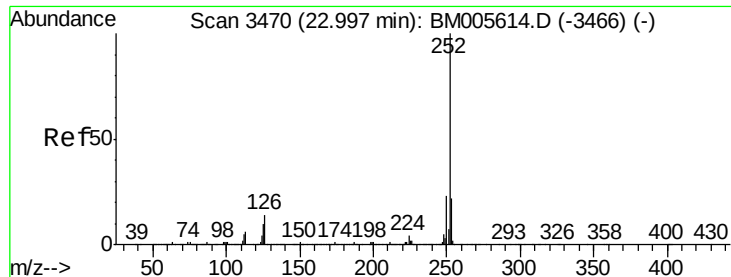
Acq: 25 May 2016 21:51

Tgt Ion:	252	Resp:	1372199
Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	11.4	7.0	10.4#



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





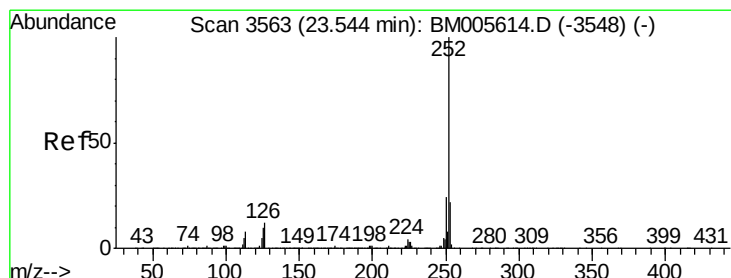
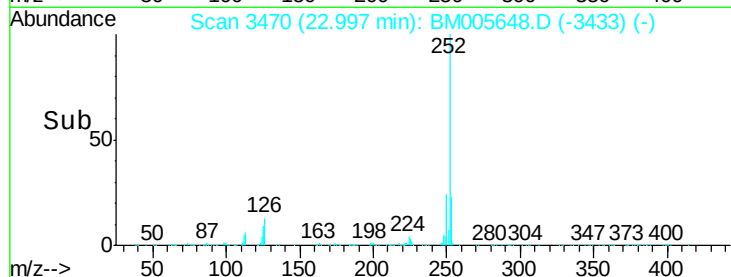
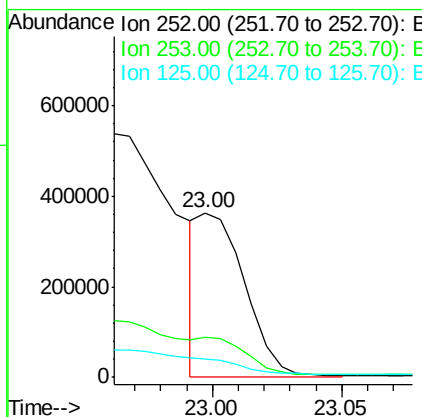
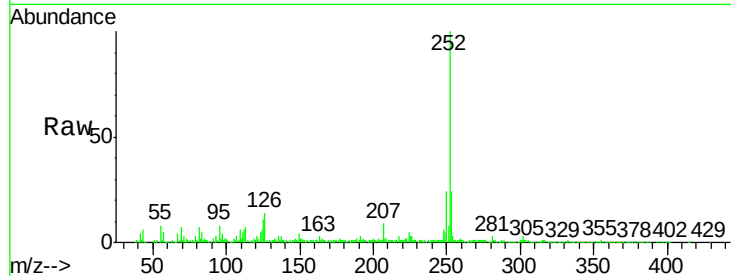
#86
Benzo(k)fluoranthene
Concen: 14.20 ng/ul m
RT: 23.00 min Scan# 3470
Delta R.T. 0.02 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampleId :
JHGL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.5	26.3
125	11.2	7.0	10.6

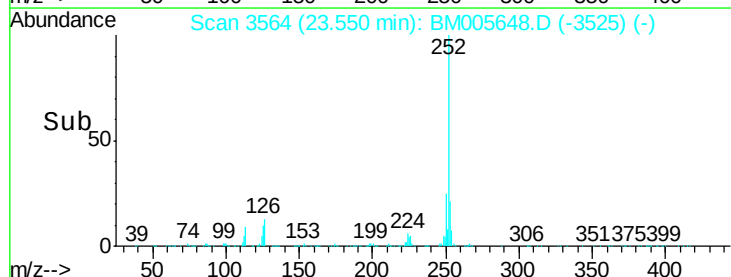
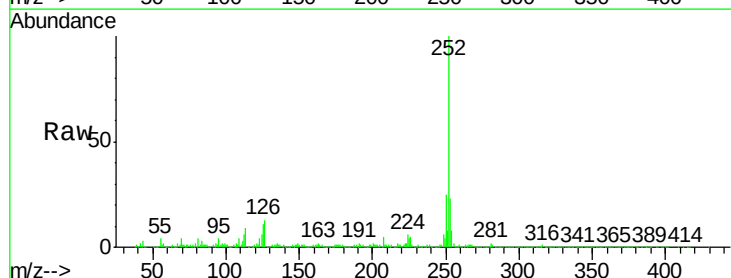
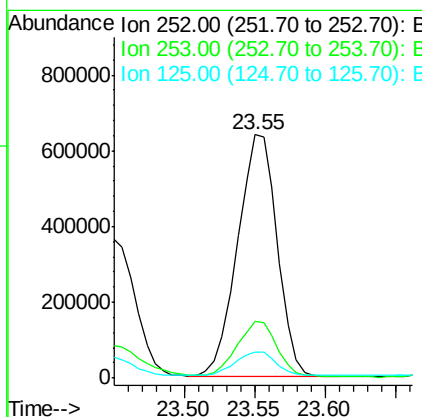
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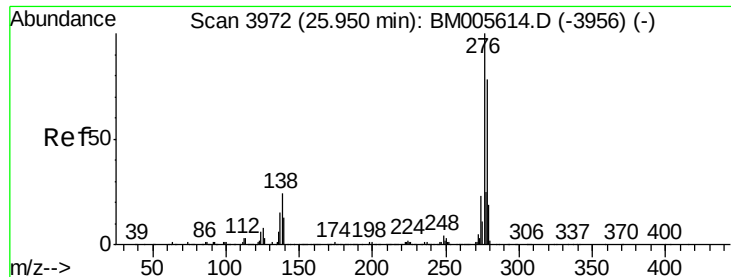
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#88
Benzo(a)pyrene
Concen: 38.98 ng/ul
RT: 23.55 min Scan# 3564
Delta R.T. 0.03 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	10.8	7.6	11.4





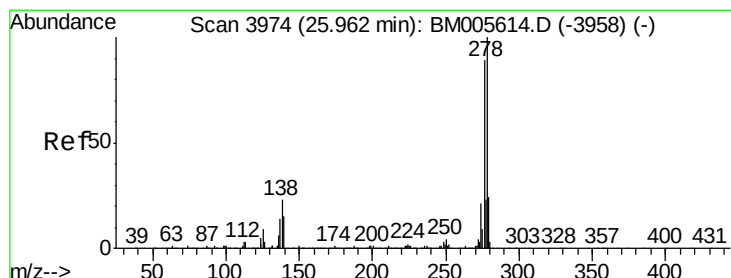
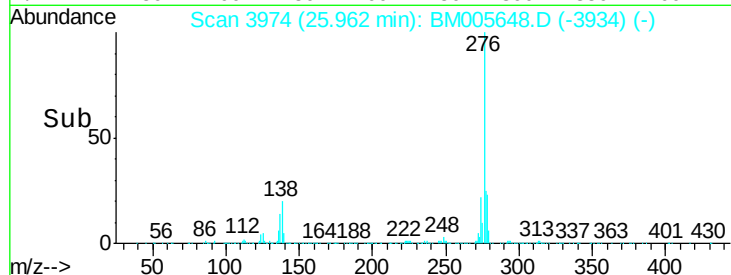
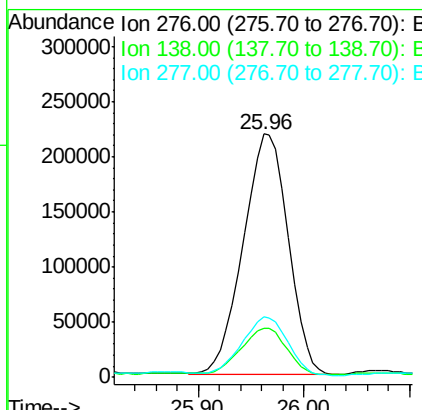
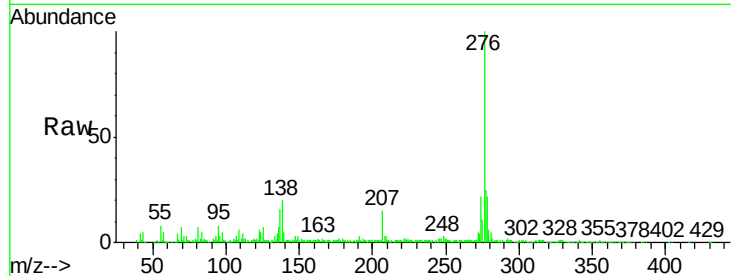
#89
Indeno(1,2,3-cd)pyrene
Concen: 16.76 ng/ul
RT: 25.96 min Scan# 3974
Delta R.T. 0.04 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampleId :
JHGL2

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.9	25.3
277	25.1	20.2	30.4

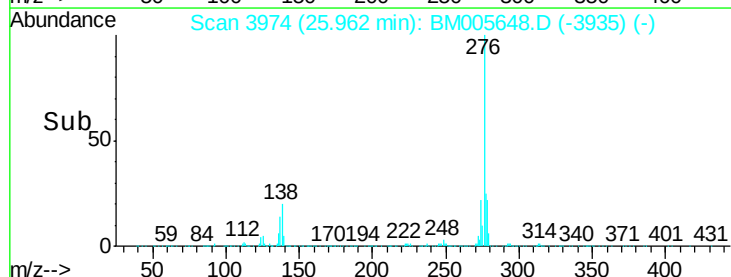
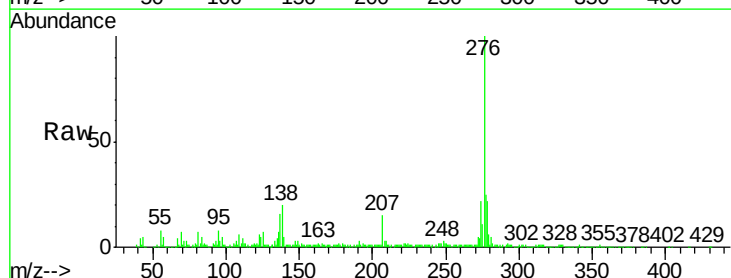
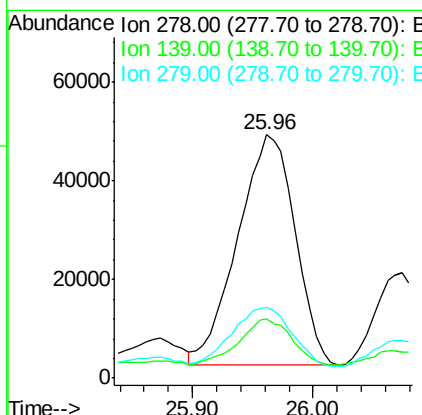
Manual Integrations
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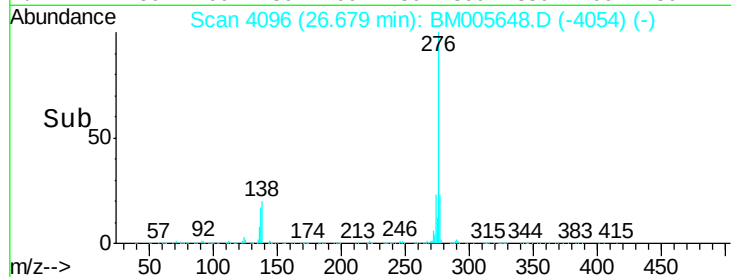
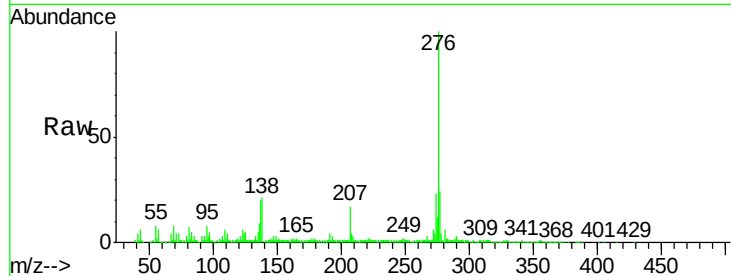
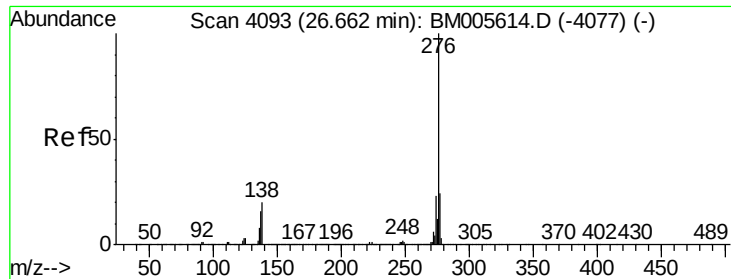
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#90
Dibenzo(a,h)anthracene
Concen: 4.81 ng/ul
RT: 25.96 min Scan# 3974
Delta R.T. 0.03 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.5	11.8	17.6#
279	29.0	19.4	29.2





#91
Benzo(a,h,i)perylene
Concen: 19.40 ng/ul
RT: 26.68 min Scan# 4096
Delta R.T. 0.05 min
Lab File: BM005648.D
Acq: 25 May 2016 21:51

Instrument :
BNA_M
ClientSampleId :
JHGL2

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	15.0	22.6
277	24.2	18.6	28.0

Manual Integrations
APPROVED

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