

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM052216\
 Data File : BM005604.D
 Acq On : 23 May 2016 01:42
 Operator : UM/SJ
 Sample : H3086-18
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 JHGL2

Quant Time: May 23 05:37:13 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM052016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 23 05:32:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	152352	20.00	ng/ul	0.01
18) Naphthalene-d8	10.62	136	680102	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.46	164	386524	20.00	ng/ul	0.01
61) Phenanthrene-d10	17.20	188	861412	20.00	ng/ul	0.02
75) Chrysene-d12	21.38	240	766022	20.00	ng/ul	0.02
83) Perylene-d12	23.67	264	742475	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.29	96	10743	3.09	ng/uL	0.00
5) Phenol-d5	7.00	99	298081	23.87	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.15	67	176106	24.33	ng/ul	0.00
9) 2-Chlorophenol-d4	7.36	132	240259	23.06	ng/ul	0.01
13) 4-Methylphenol-d8	8.53	113	257252	25.14	ng/ul	0.02
19) Nitrobenzene-d5	8.98	128	122883	23.63	ng/ul	0.01
22) 2-Nitrophenol-d4	9.70	143	132660	23.18	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.25	165	259132	24.04	ng/ul	0.02
29) 4-Chloroaniline-d4	10.75	131	309731	28.69	ng/ul	0.01
43) Dimethylphthalate-d6	13.86	166	788739	25.00	ng/ul	0.00
46) Acenaphthylene-d8	14.15	160	1040662	26.38	ng/ul	0.01
51) 4-Nitrophenol-d4	14.67	143	129842	21.76	ng/ul	0.02
57) Fluorene-d10	15.45	176	719314	26.20	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.59	200	24014	4.85	ng/ul	0.03
70) Anthracene-d10	17.30	188	1128920	27.51	ng/ul	0.02
76) Pyrene-d10	19.60	212	1185003	34.16	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.53	264	939901	27.11	ng/ul	0.03

Target Compounds

					Qvalue
6) Phenol	7.03	94	14774	1.15 ng/ul	97
16) 4-Methylphenol	8.60	108	11013	1.04 ng/ul	86
17) Hexachloroethane	8.92	117	4950	1.18 ng/ul#	5
28) Naphthalene	10.66	128	466049	13.64 ng/ul	100
34) 2-Methylnaphthalene	12.27	142	149202	5.97 ng/ul	100
40) 1,1'-Biphenyl	13.29	154	103597	3.19 ng/ul	98
44) Dimethylphthalate	13.91	163	222273	7.13 ng/ul	100
47) Acenaphthylene	14.18	152	889662	22.20 ng/ul	97
49) Acenaphthene	14.52	153	199771	7.56 ng/ul	98
53) Dibenzofuran	14.86	168	276990	7.34 ng/ul	97
58) Fluorene	15.51	166	629433	20.84 ng/ul	99
69) Phenanthrene	17.25	178	5186988	107.74 ng/ul	98
71) Anthracene	17.34	178	1465275	29.86 ng/ul	100
72) Carbazole	17.60	167	159142	3.74 ng/ul#	92
74) Fluoranthene	19.27	202	6467001	119.34 ng/ul	100
77) Pyrene	19.63	202	6950666	157.84 ng/ul	99
80) Benzo(a)anthracene	21.37	228	2297318	51.02 ng/ul#	87
82) Chrysene	21.42	228	2413184	56.33 ng/ul	96
85) Benzo(b)fluoranthene	22.99	252	2111512	48.22 ng/ul#	94
86) Benzo(k)fluoranthene	22.99	252	2111512	50.94 ng/ul#	94
88) Benzo(a)pyrene	23.58	252	2014982	47.43 ng/ul	97
89) Indeno(1,2,3-cd)pyrene	26.00	276	1123190	22.26 ng/ul	99
90) Dibenzo(a,h)anthracene	26.00	278	266071	6.33 ng/ul#	84

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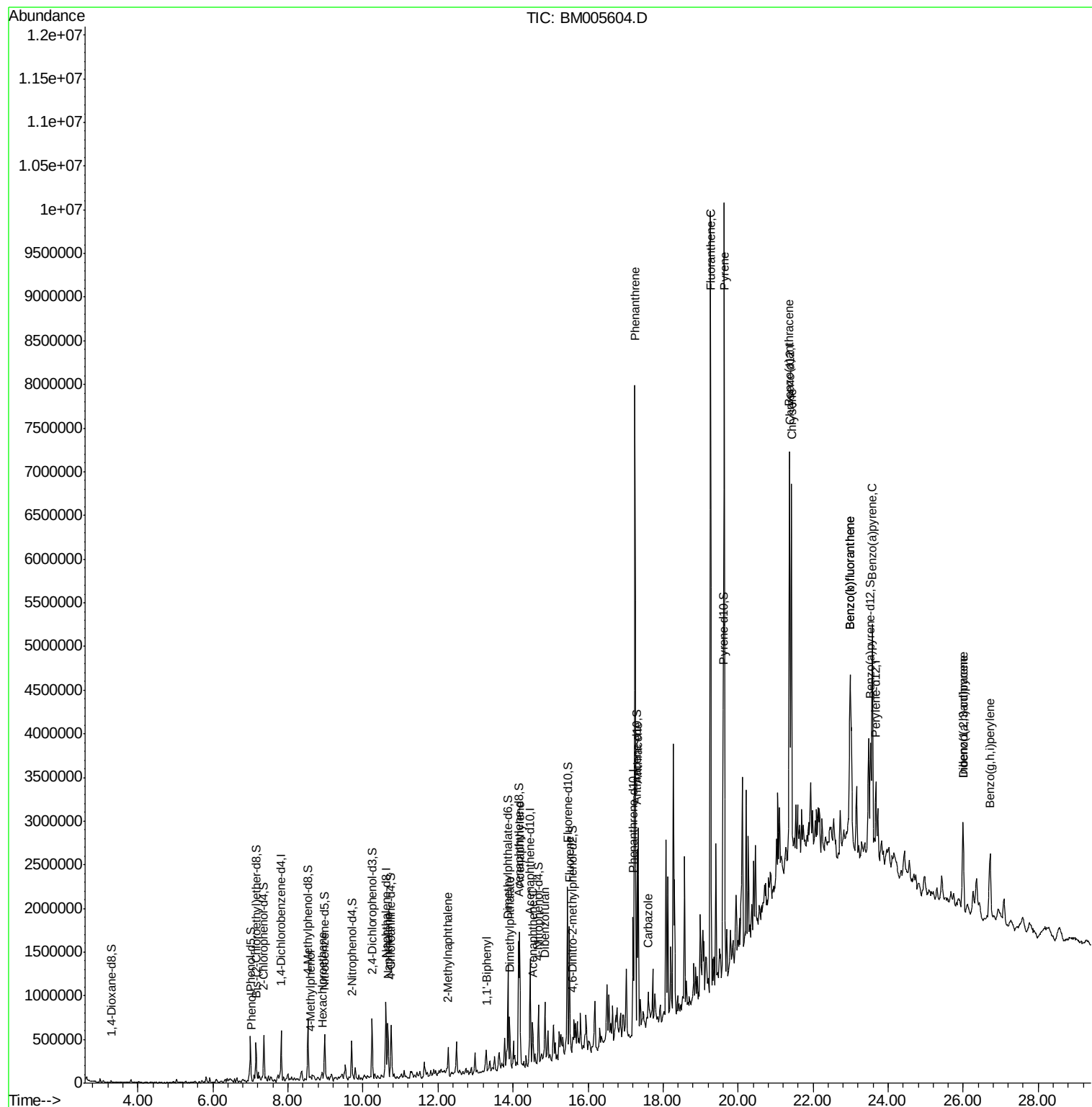
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(g,h,i)perylene	26.72	276	1114599	26.27	ng/ul	96

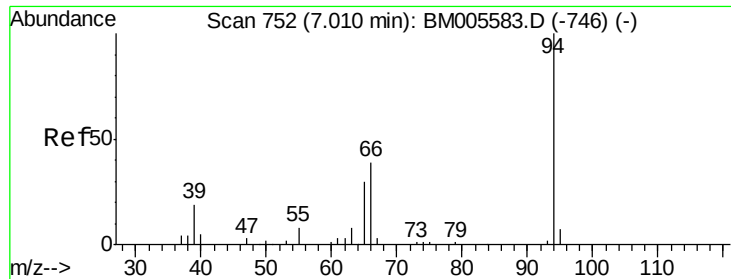
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 1.15 ng/ul

RT: 7.03 min Scan# 755

Delta R.T. 0.02 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

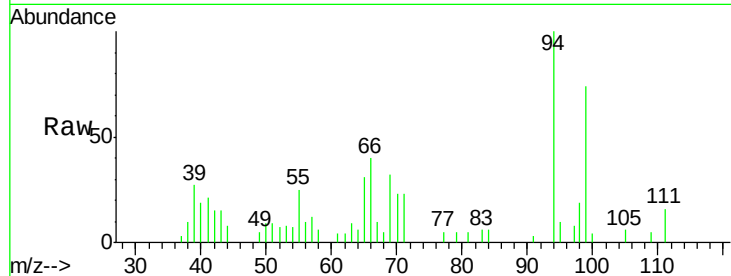
Tgt Ion: 94 Resp: 14774

Ion Ratio Lower Upper

94 100

65 31.2 24.2 36.2

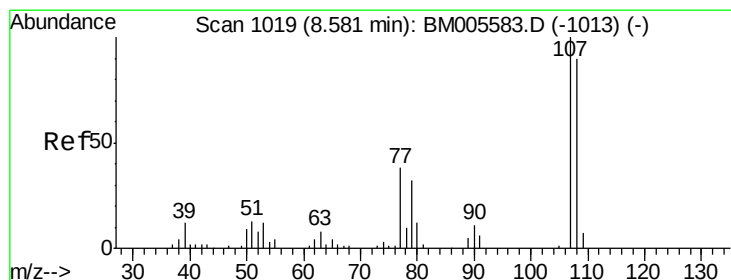
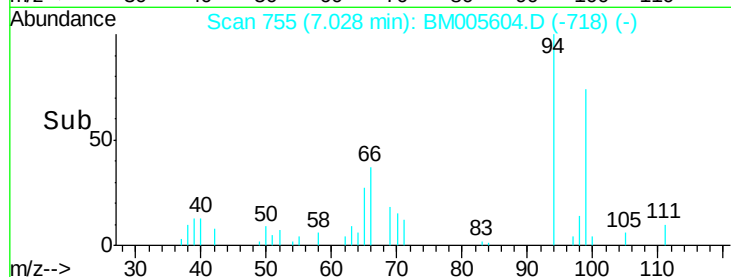
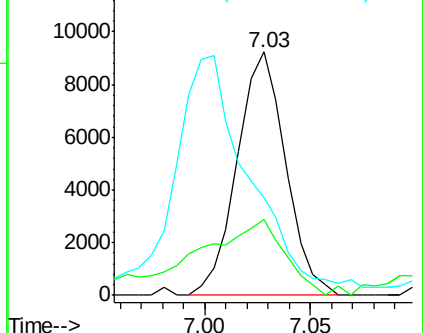
66 40.3 33.9 50.9



Abundance Ion 94.00 (93.70 to 94.70): BM005583.D (-746) (-)

Ion 65.00 (64.70 to 65.70): BM005583.D (-746) (-)

Ion 66.00 (65.70 to 66.70): BM005583.D (-746) (-)



#16

4-Methylphenol

Concen: 1.04 ng/ul

RT: 8.60 min Scan# 1022

Delta R.T. 0.02 min

Lab File: BM005604.D

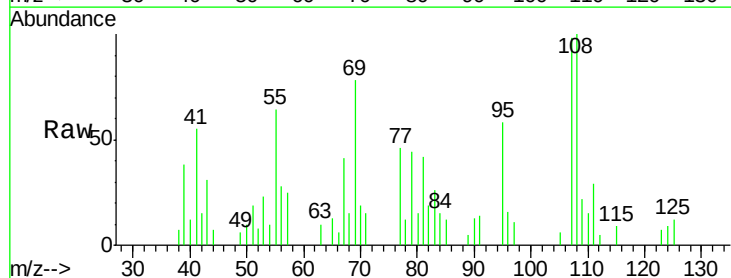
Acq: 23 May 2016 01:42

Tgt Ion: 108 Resp: 11013

Ion Ratio Lower Upper

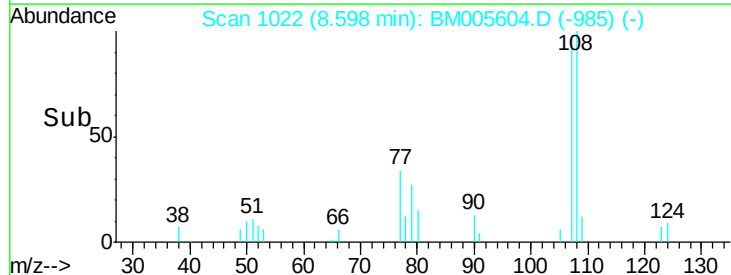
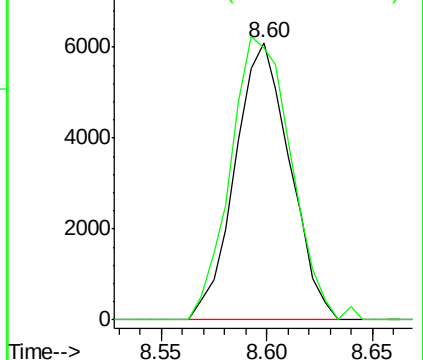
108 100

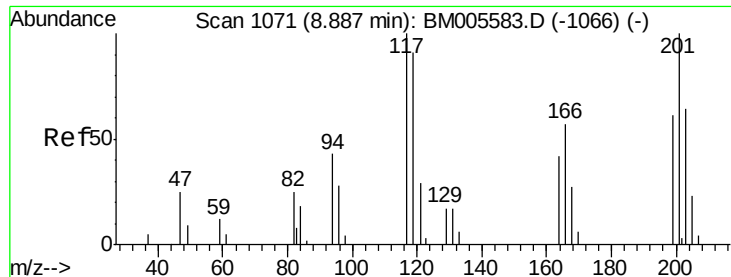
107 98.0 90.3 135.5



Abundance Ion 108.00 (107.70 to 108.70): BM005583.D (-1013) (-)

Ion 107.00 (106.70 to 107.70): BM005583.D (-1013) (-)





#17

Hexachloroethane

Concen: 1.18 ng/ul

RT: 8.92 min Scan# 1077

Delta R.T. 0.04 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

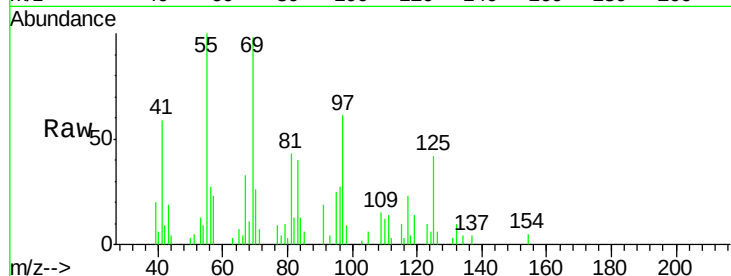
Tgt Ion:117 Resp: 4950

Ion Ratio Lower Upper

117 100

201 0.0 84.8 127.2#

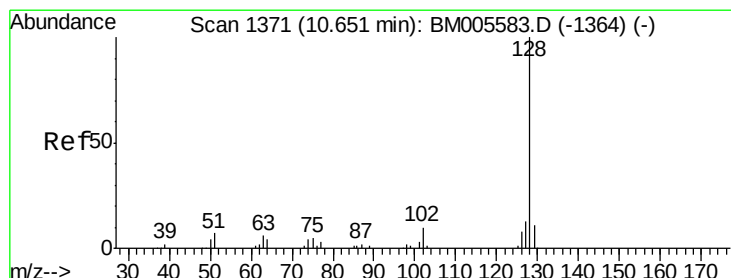
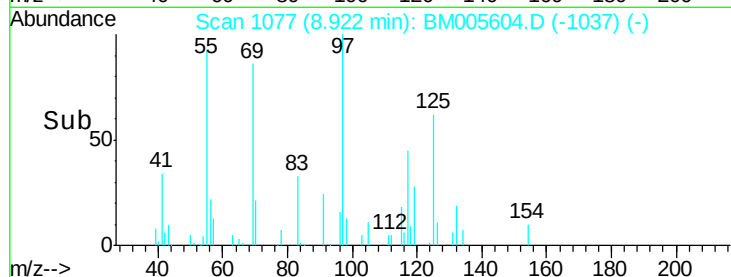
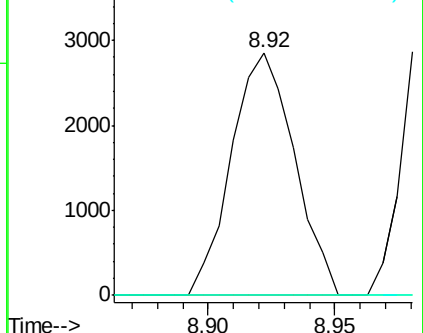
199 0.0 50.5 75.7#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 13.64 ng/ul

RT: 10.66 min Scan# 1373

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

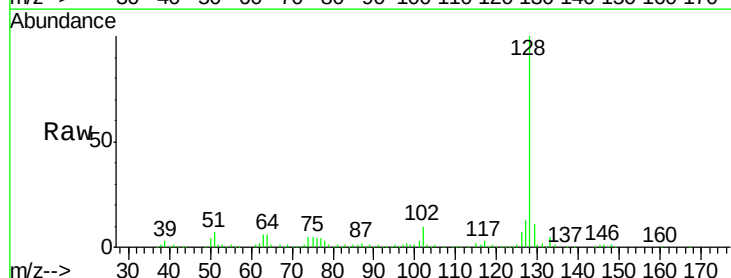
Tgt Ion:128 Resp: 466049

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

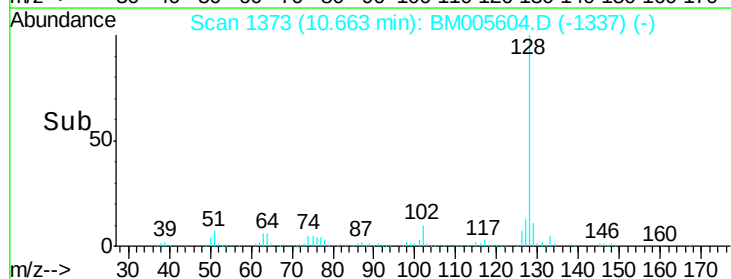
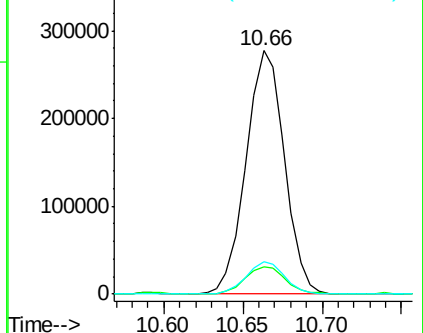
127 13.2 10.6 15.8

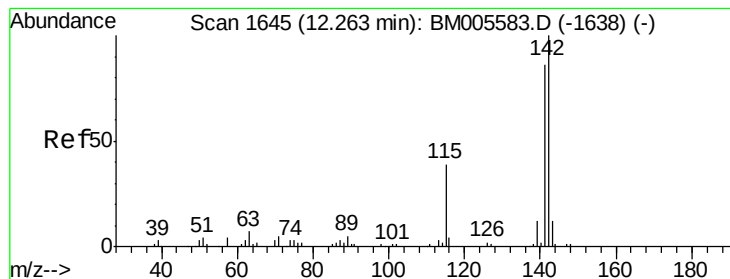


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#34

2-Methylnaphthalene

Concen: 5.97 ng/ul

RT: 12.27 min Scan# 1647

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampled :

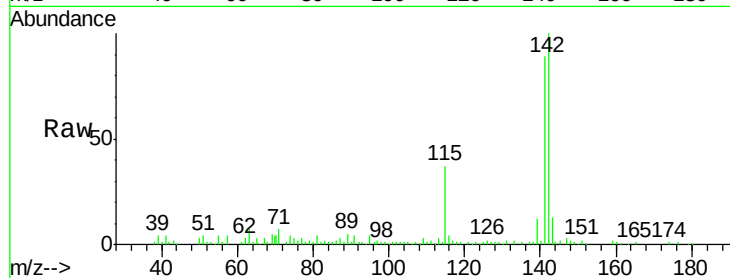
JHGL2

Tgt Ion:142 Resp: 149202

Ion Ratio Lower Upper

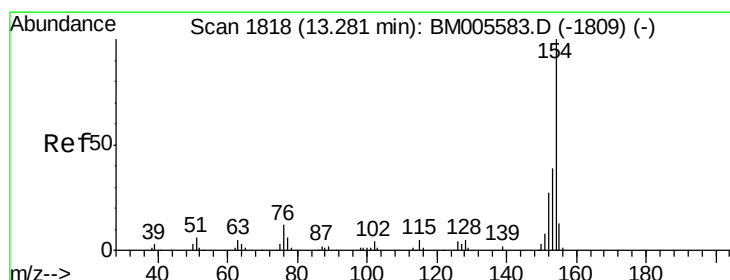
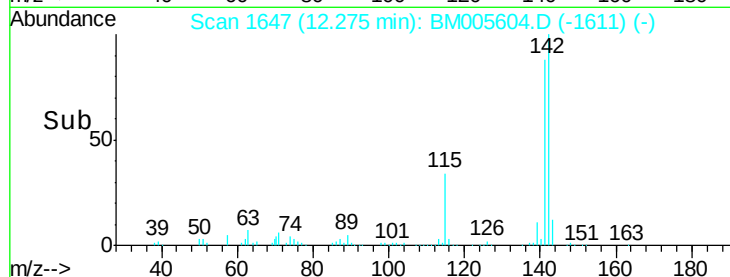
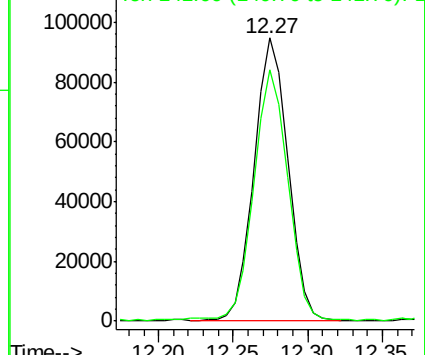
142 100

141 88.7 70.6 106.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#40

1,1'-Biphenyl

Concen: 3.19 ng/ul

RT: 13.29 min Scan# 1819

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

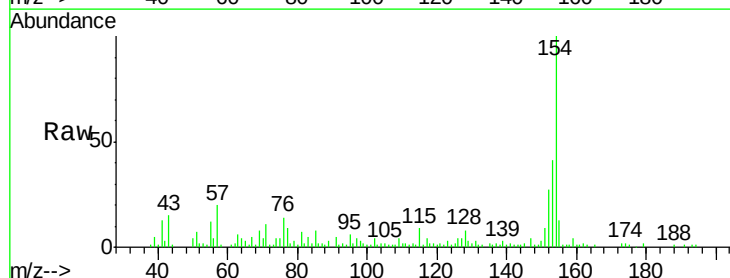
Tgt Ion:154 Resp: 103597

Ion Ratio Lower Upper

154 100

153 40.9 31.7 47.5

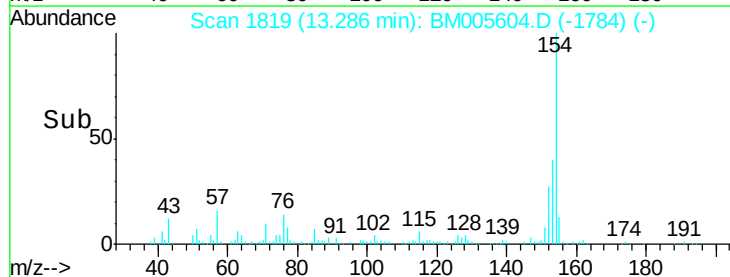
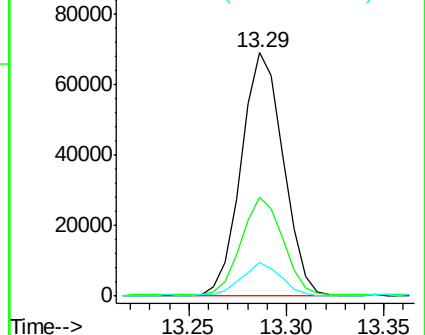
76 14.0 10.1 15.1

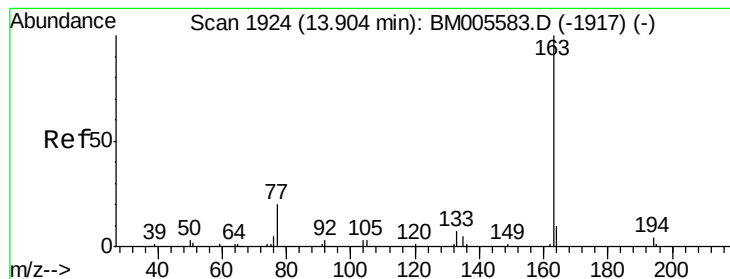


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





#44

Dimethylphthalate

Concen: 7.13 ng/ul

RT: 13.91 min Scan# 1925

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

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ClientSampleId :

JHGL2

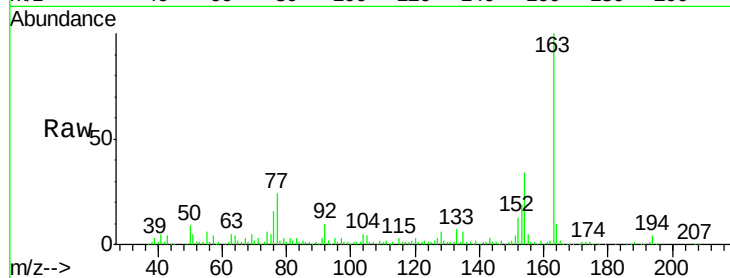
Tgt Ion:163 Resp: 222273

Ion Ratio Lower Upper

163 100

194 4.2 3.4 5.0

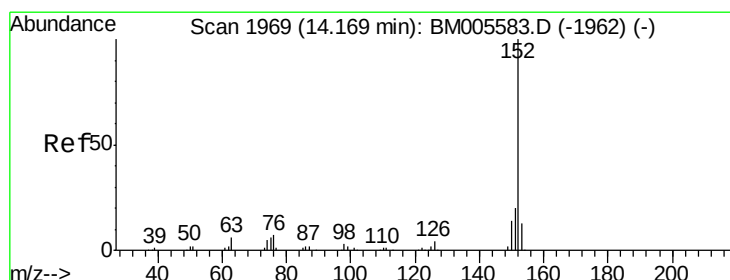
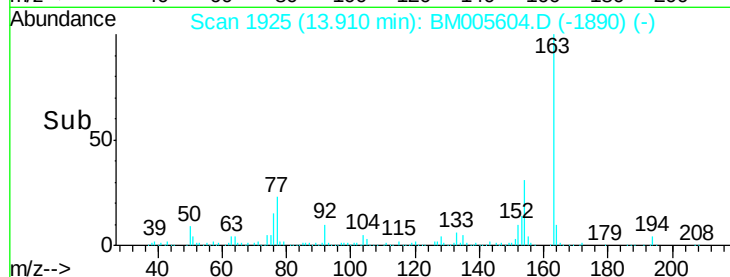
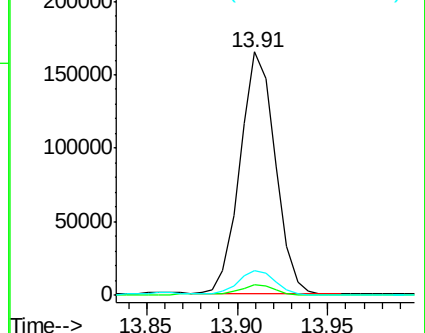
164 10.2 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 22.20 ng/ul

RT: 14.18 min Scan# 1971

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

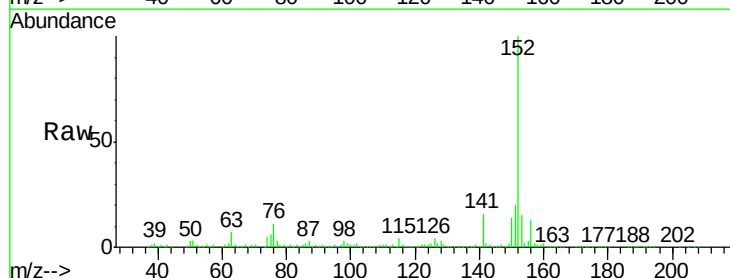
Tgt Ion:152 Resp: 889662

Ion Ratio Lower Upper

152 100

151 20.2 15.7 23.5

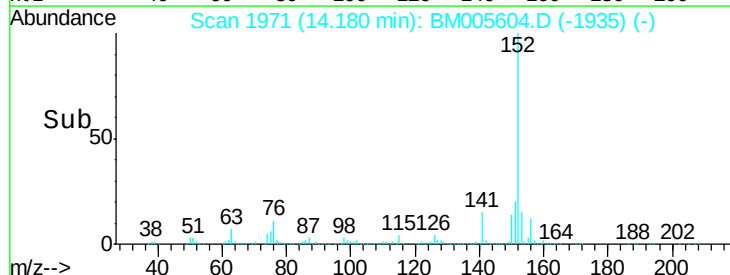
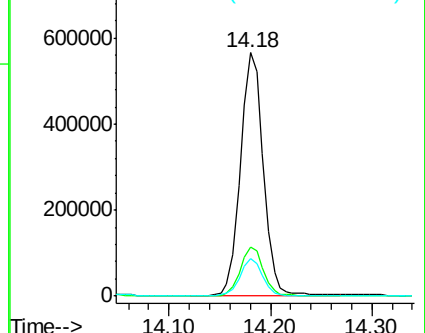
153 15.2 10.5 15.7

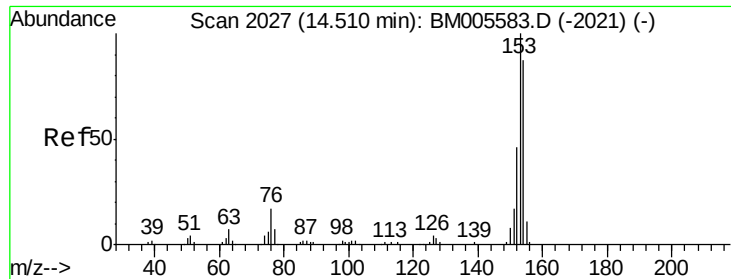


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 7.56 ng/ul

RT: 14.52 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BM005604.D

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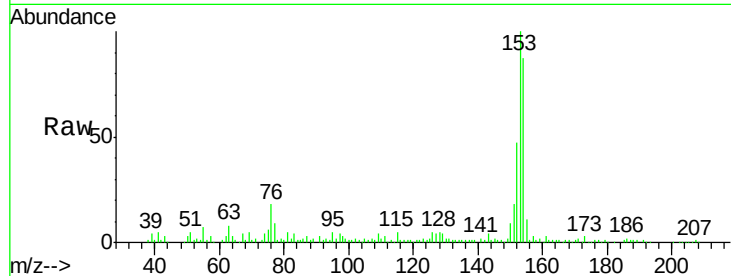
Tgt Ion:153 Resp: 199771

Ion Ratio Lower Upper

153 100

152 47.4 37.8 56.6

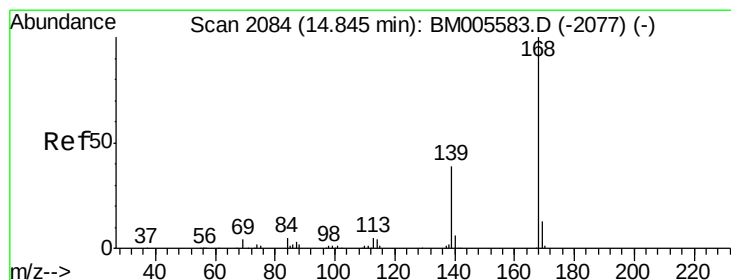
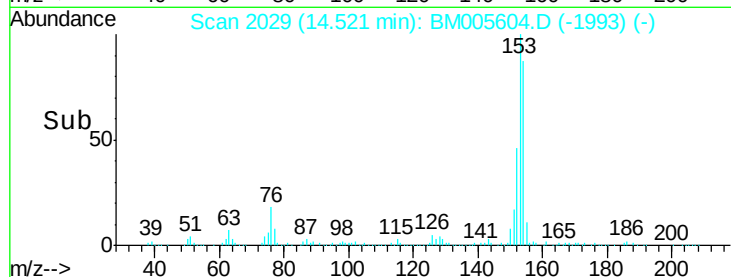
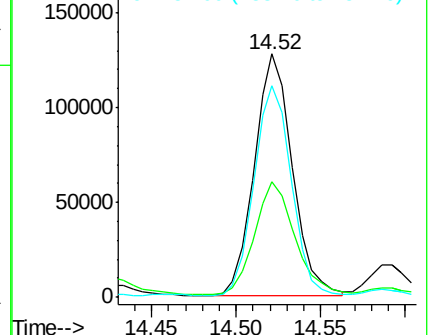
154 86.7 71.1 106.7



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



#53

Dibenzofuran

Concen: 7.34 ng/ul

RT: 14.86 min Scan# 2086

Delta R.T. 0.01 min

Lab File: BM005604.D

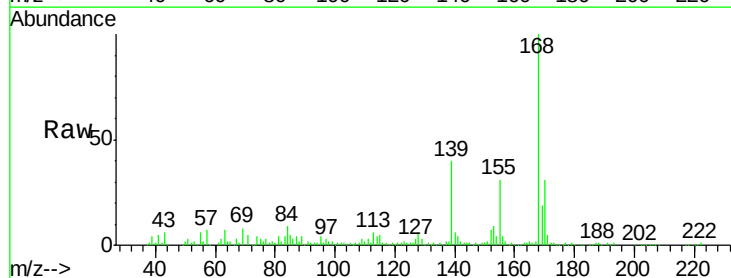
Acq: 23 May 2016 01:42

Tgt Ion:168 Resp: 276990

Ion Ratio Lower Upper

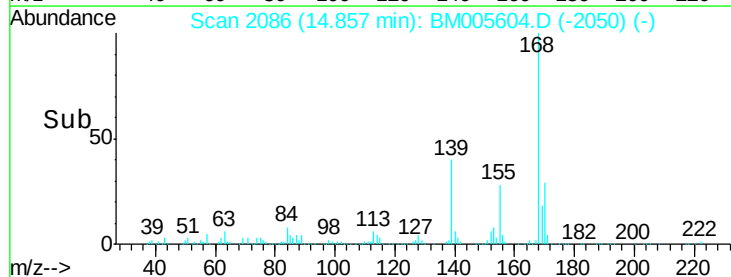
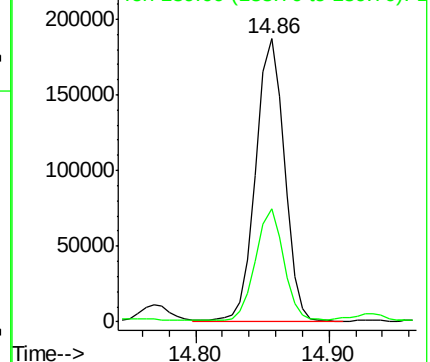
168 100

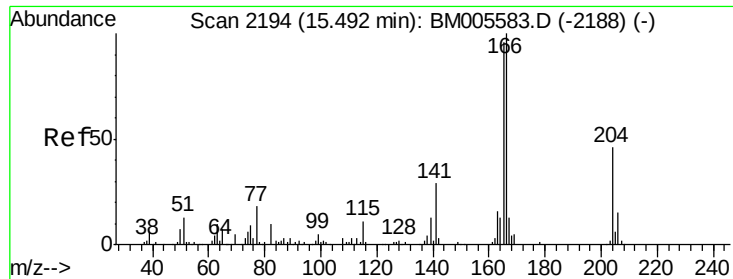
139 40.1 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 20.84 ng/ul

RT: 15.51 min Scan# 2197

Delta R.T. 0.02 min

Lab File: BM005604.D

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JHGL2

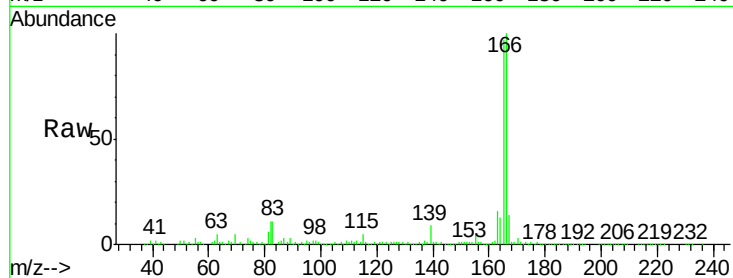
Tgt Ion:166 Resp: 629433

Ion Ratio Lower Upper

166 100

165 96.8 78.0 117.0

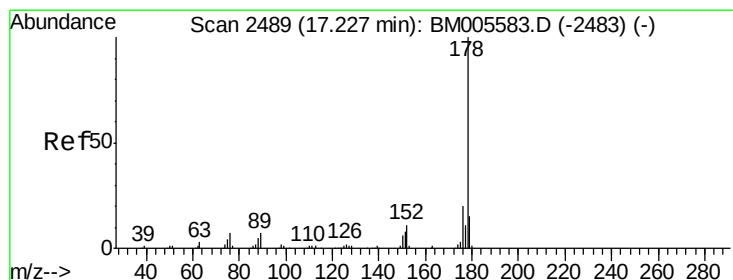
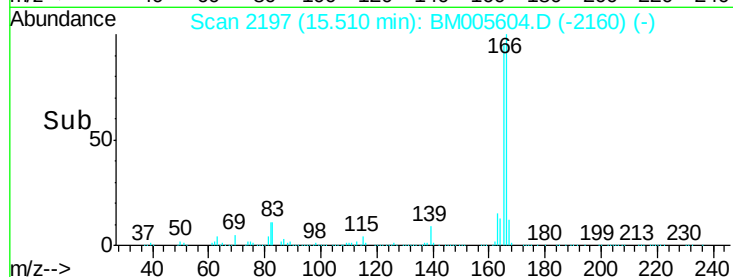
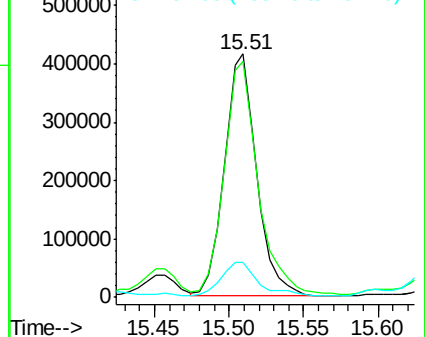
167 14.3 10.5 15.7



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



#69

Phenanthrene

Concen: 107.74 ng/ul

RT: 17.25 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

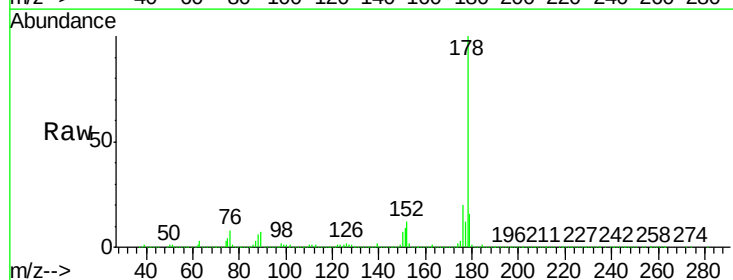
Tgt Ion:178 Resp: 5186988

Ion Ratio Lower Upper

178 100

179 16.0 12.2 18.2

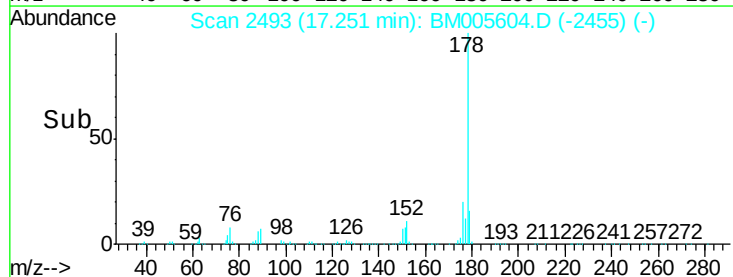
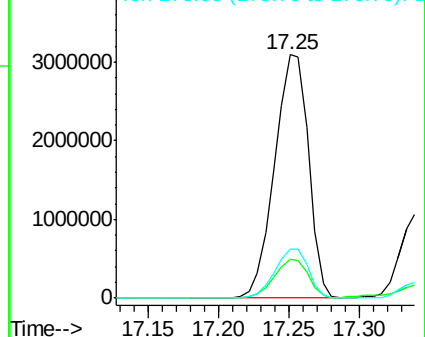
176 20.2 15.8 23.6

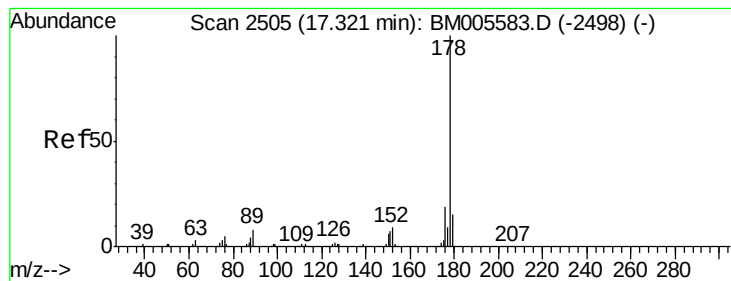


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 29.86 ng/ul

RT: 17.34 min Scan# 2508

Delta R.T. 0.02 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

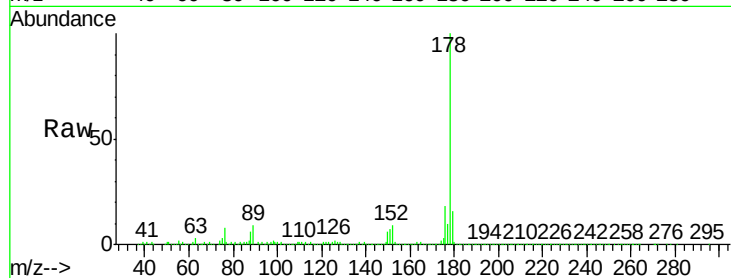
Tgt Ion:178 Resp: 1465275

Ion Ratio Lower Upper

178 100

179 15.7 12.6 18.8

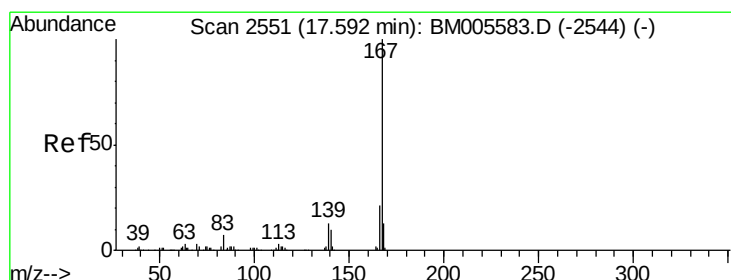
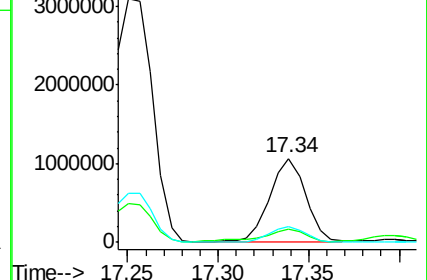
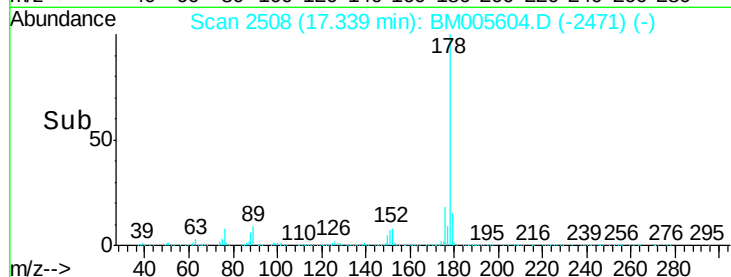
176 18.4 15.0 22.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 3.74 ng/ul

RT: 17.60 min Scan# 2553

Delta R.T. 0.01 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

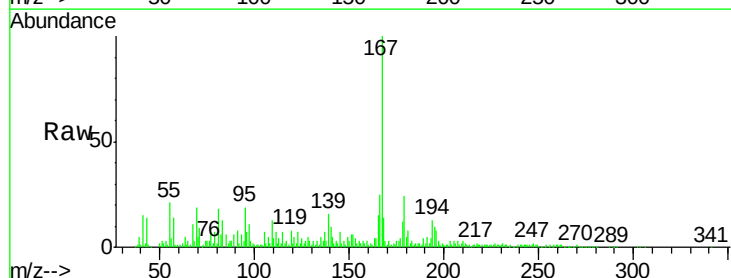
Tgt Ion:167 Resp: 159142

Ion Ratio Lower Upper

167 100

166 25.5 16.9 25.3#

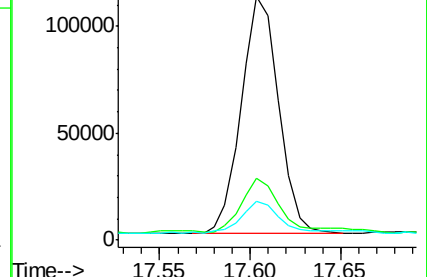
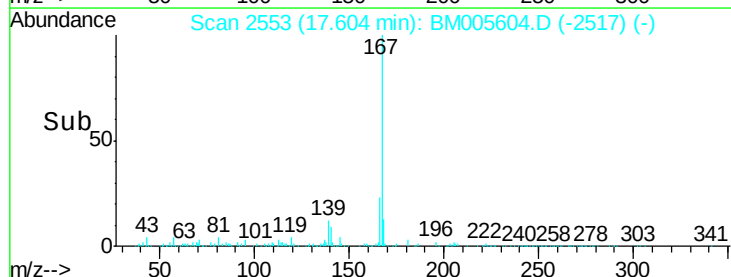
139 15.8 10.6 16.0

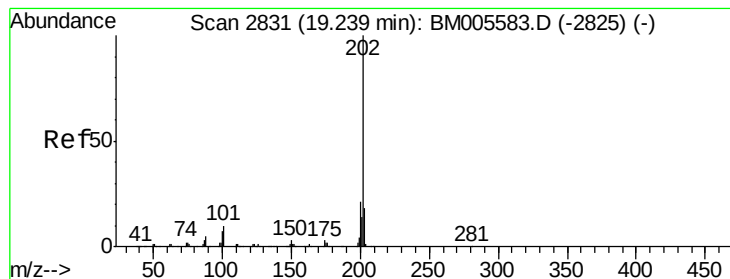


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 119.34 ng/ul

RT: 19.27 min Scan# 2836

Delta R.T. 0.03 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampled :

JHGL2

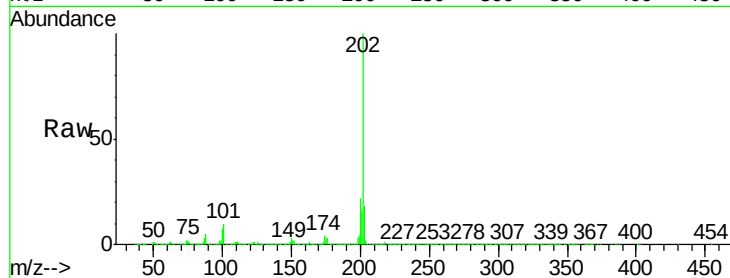
Tgt Ion:202 Resp: 6467001

Ion Ratio Lower Upper

202 100

101 9.8 7.9 11.9

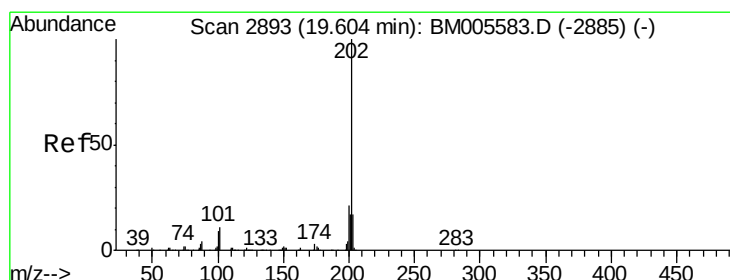
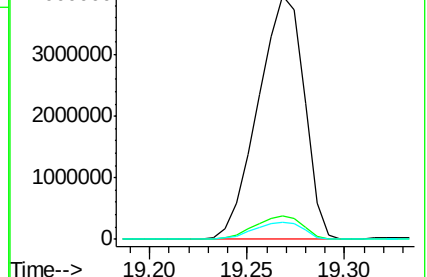
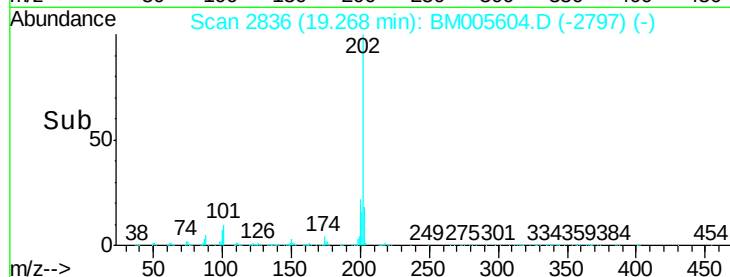
100 7.1 5.6 8.4



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



#77

Pyrene

Concen: 157.84 ng/ul

RT: 19.63 min Scan# 2898

Delta R.T. 0.03 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

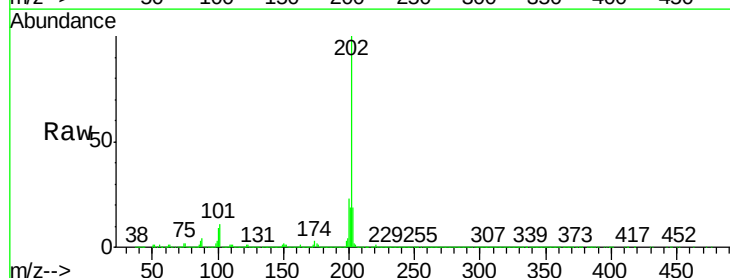
Tgt Ion:202 Resp: 6950666

Ion Ratio Lower Upper

202 100

101 11.5 9.6 14.4

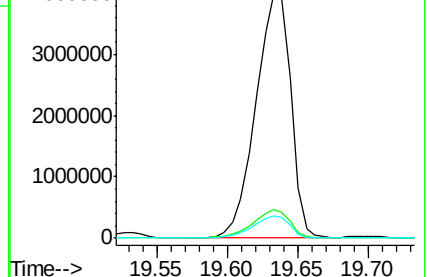
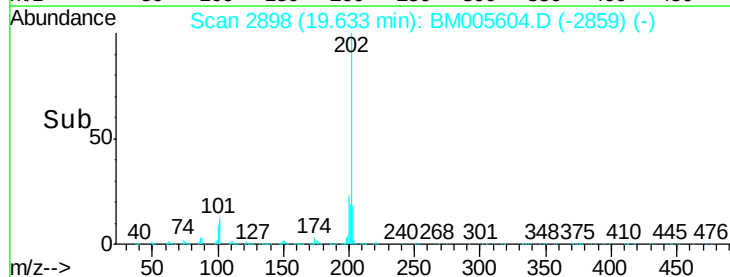
100 9.1 7.8 11.6

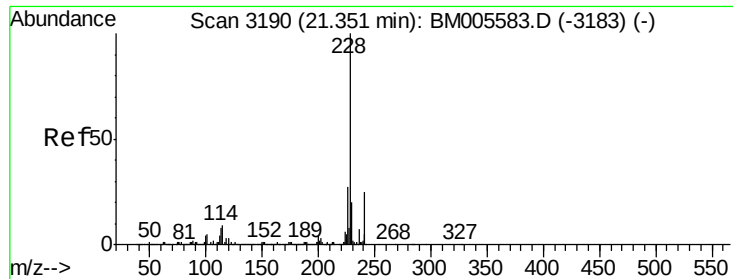


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 51.02 ng/ul

RT: 21.37 min Scan# 3193

Delta R.T. 0.02 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

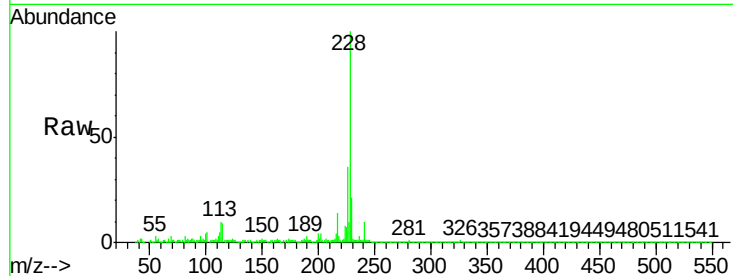
Tgt Ion:228 Resp: 2297318

Ion Ratio Lower Upper

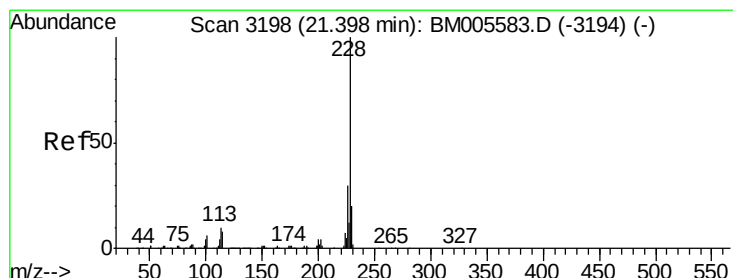
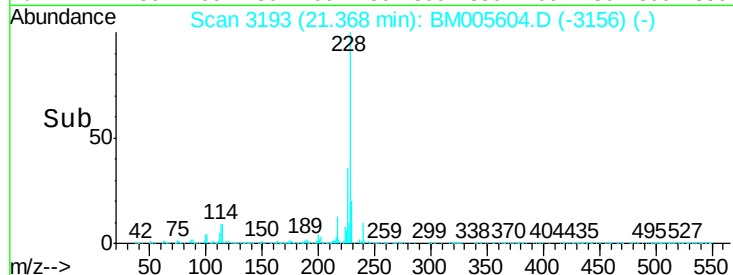
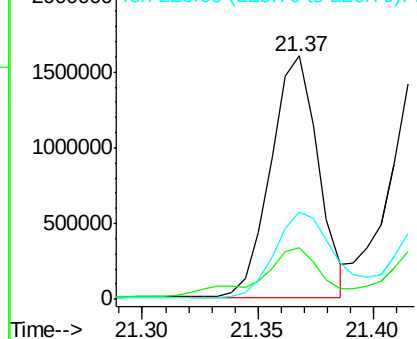
228 100

229 21.1 15.4 23.2

226 36.1 21.0 31.4#



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



#82

Chrysene

Concen: 56.33 ng/ul

RT: 21.42 min Scan# 3202

Delta R.T. 0.02 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

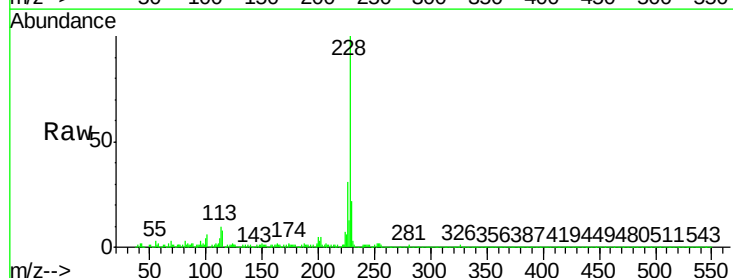
Tgt Ion:228 Resp: 2413184

Ion Ratio Lower Upper

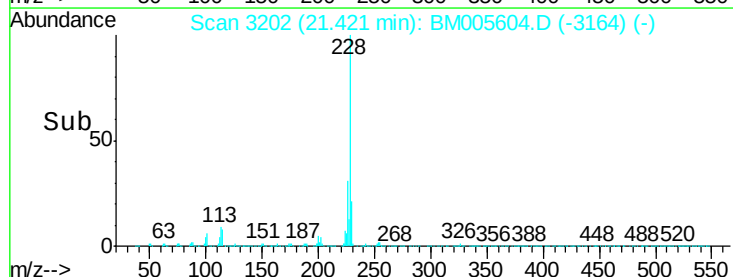
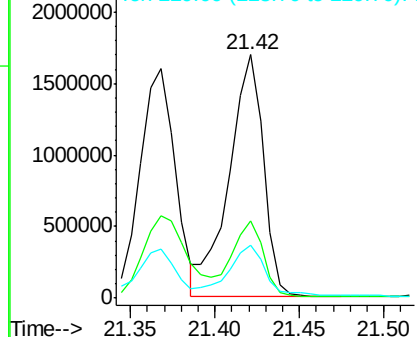
228 100

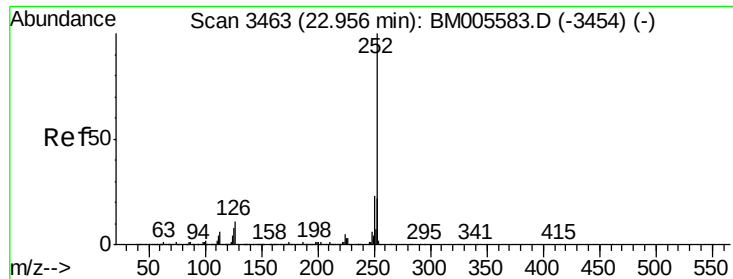
226 31.5 23.7 35.5

229 22.0 15.5 23.3



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

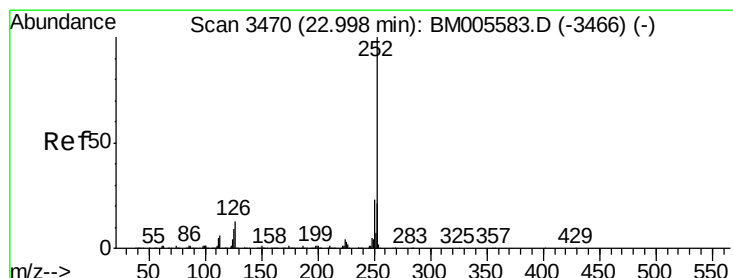
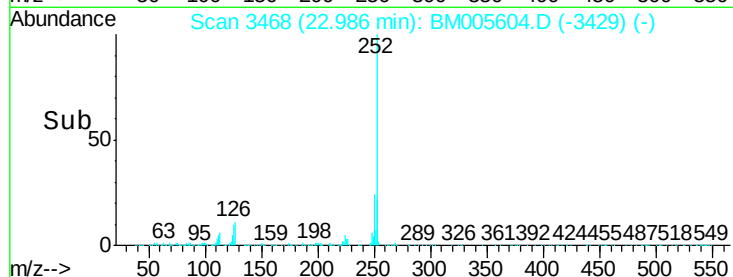
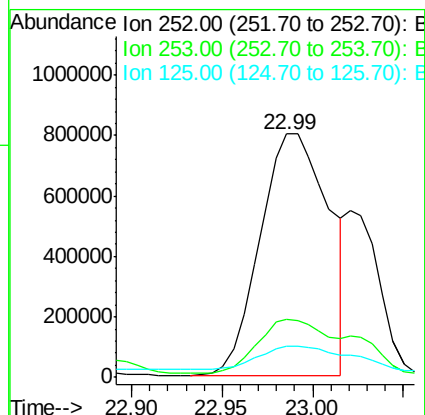
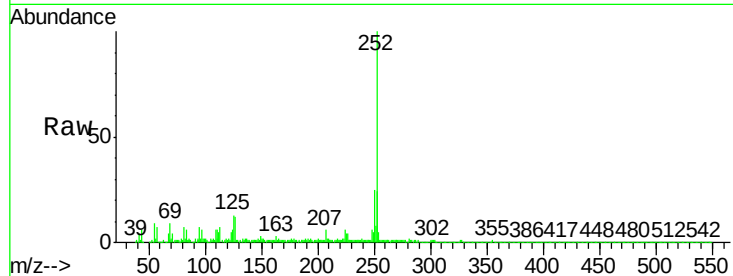




#85
Benzo(b)fluoranthene
Concen: 48.22 ng/ul
RT: 22.99 min Scan# 3468
Delta R.T. 0.03 min
Lab File: BM005604.D
Acq: 23 May 2016 01:42

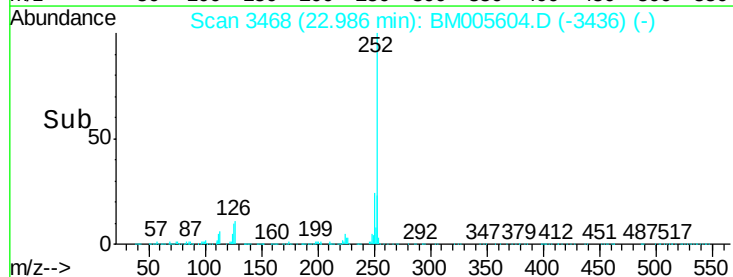
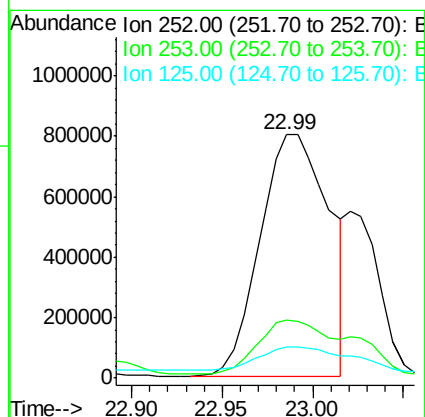
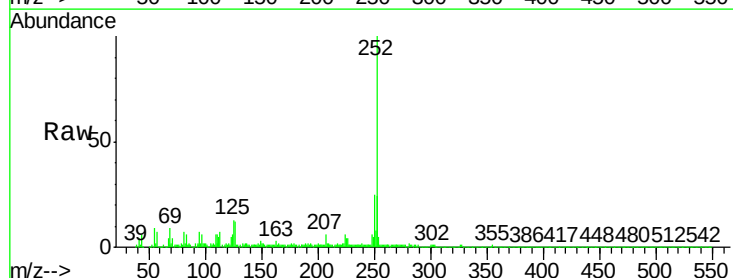
Instrument :
BNA_M
ClientSampleId :
JHGL2

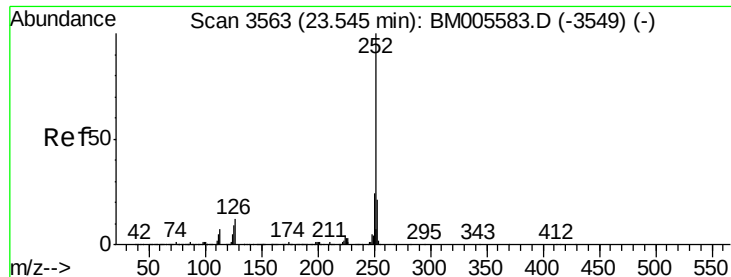
Tgt Ion:252 Resp: 2111512
Ion Ratio Lower Upper
252 100
253 23.7 17.3 25.9
125 12.6 7.0 10.4#



#86
Benzo(k)fluoranthene
Concen: 50.94 ng/ul
RT: 22.99 min Scan# 3468
Delta R.T. -0.01 min
Lab File: BM005604.D
Acq: 23 May 2016 01:42

Tgt Ion:252 Resp: 2111512
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.6 7.0 10.6#





#88

Benzo(a)pyrene

Concen: 47.43 ng/ul

RT: 23.58 min Scan# 3569

Delta R.T. 0.04 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

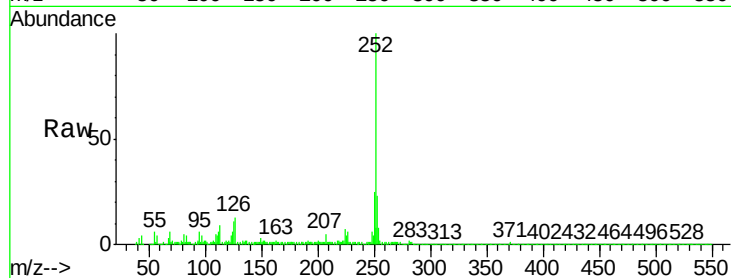
Tgt Ion:252 Resp: 2014982

Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

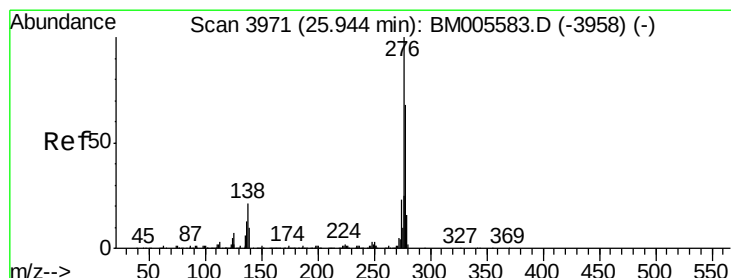
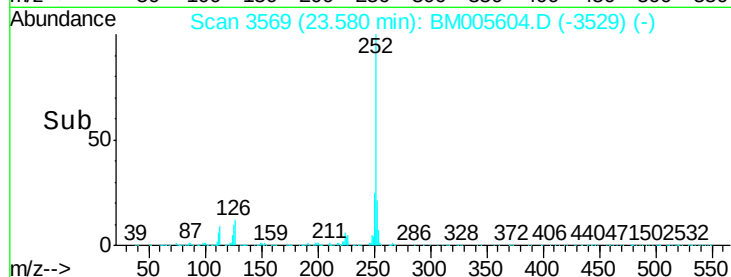
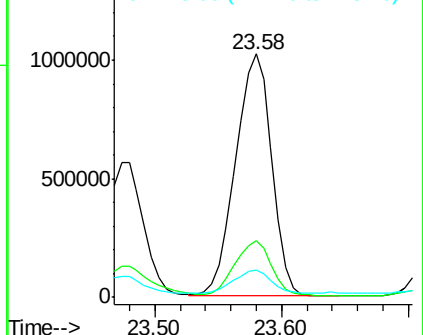
125 11.3 7.6 11.4



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 22.26 ng/ul

RT: 26.00 min Scan# 3980

Delta R.T. 0.05 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

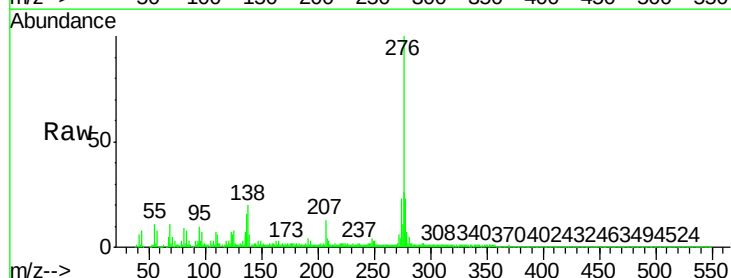
Tgt Ion:276 Resp: 1123190

Ion Ratio Lower Upper

276 100

138 20.5 16.9 25.3

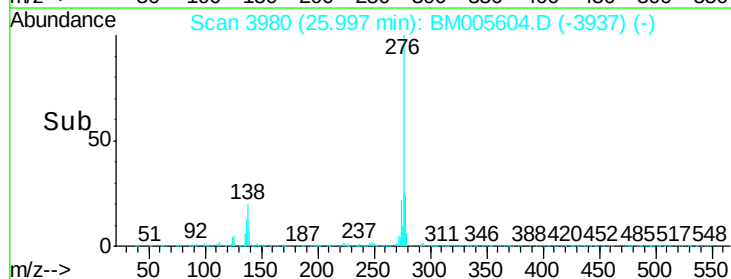
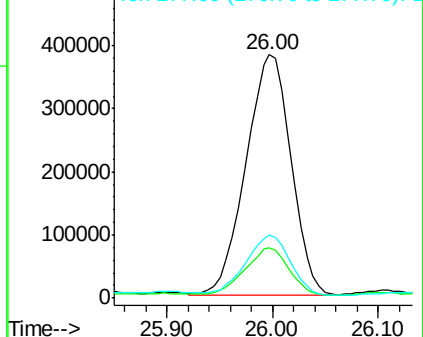
277 26.1 20.2 30.4

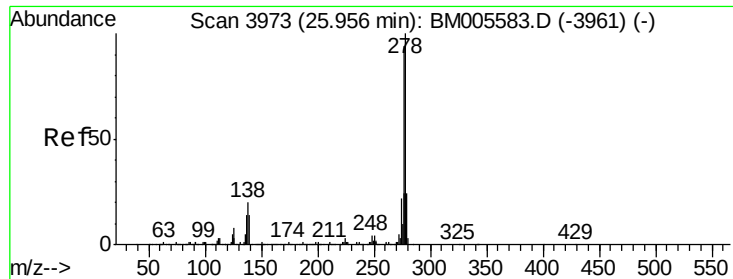


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 6.33 ng/ul

RT: 26.00 min Scan# 3980

Delta R.T. 0.04 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

Instrument :

BNA_M

ClientSampleId :

JHGL2

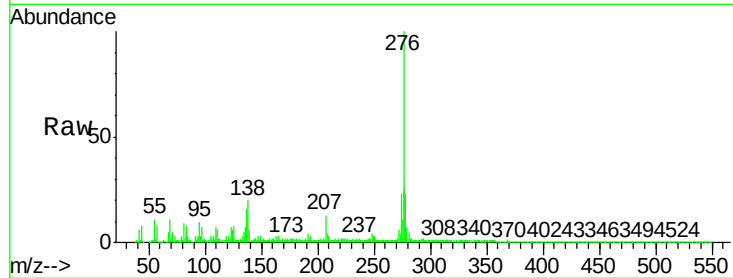
Tgt Ion:278 Resp: 266071

Ion Ratio Lower Upper

278 100

139 25.1 11.8 17.6#

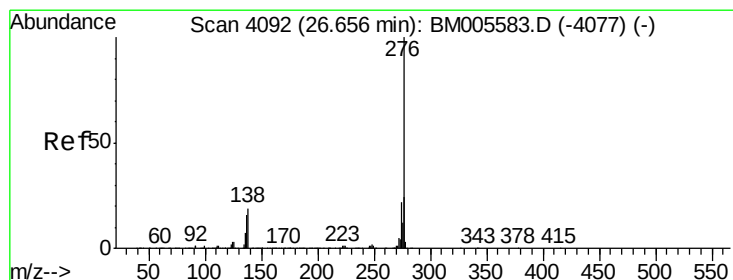
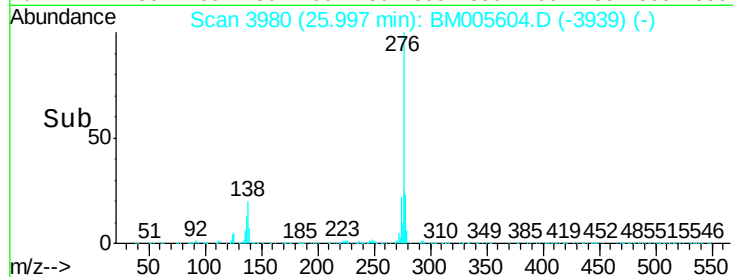
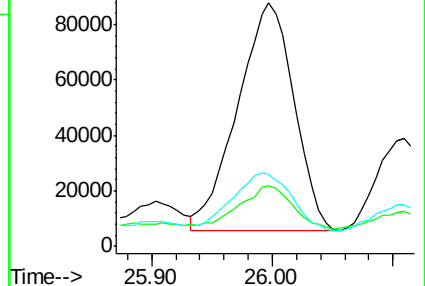
279 29.4 19.4 29.2#



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



#91

Benzo(g,h,i)perylene

Concen: 26.27 ng/ul

RT: 26.72 min Scan# 4103

Delta R.T. 0.06 min

Lab File: BM005604.D

Acq: 23 May 2016 01:42

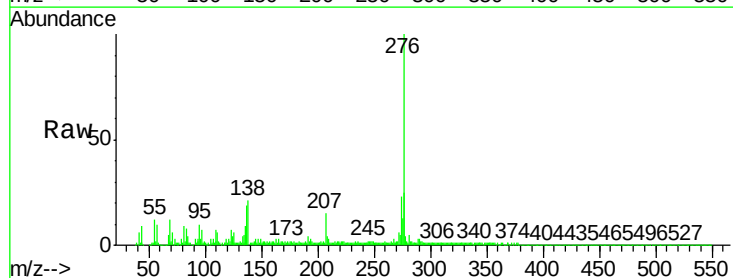
Tgt Ion:276 Resp: 1114599

Ion Ratio Lower Upper

276 100

138 20.7 15.0 22.6

277 25.1 18.6 28.0



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

