

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062716\
 Data File : BM006083.D
 Acq On : 27 Jun 2016 23:09
 Operator : UM/SJ
 Sample : SSTDC0020
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SSTD02040

Quant Time: Jun 28 02:14:38 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM062516.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jun 28 02:11:41 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	98855	20.00	ng/ul	0.00
7) Naphthalene-d8	10.44	136	527945	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.31	164	397782	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.06	188	1179937	20.00	ng/ul	0.00
29) Chrysene-d12	21.26	240	1914165	20.00	ng/ul	0.00
34) Perylene-d12	23.49	264	2041387	20.00	ng/ul	0.00

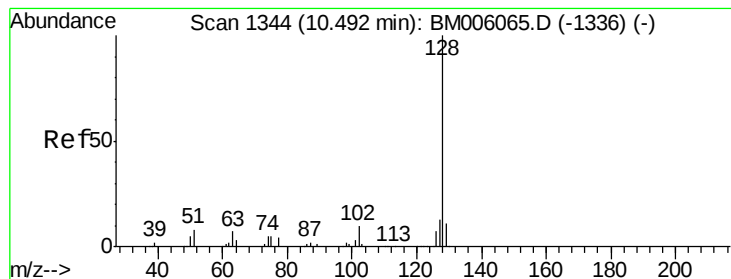
System Monitoring Compounds

2) 1,4-Dioxane-d8	3.17	96	16009	7.23	ng/uL	0.00
3) Phenol-d5	6.83	99	203924	19.61	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	7.00	67	109035	18.85	ng/ul	0.00
5) 2-Chlorophenol-d4	7.19	132	143208	19.77	ng/ul	0.00
6) 4-Methylphenol-d8	8.36	113	167229	19.05	ng/ul	0.00
8) Nitrobenzene-d5	8.81	128	77054	19.17	ng/ul	0.00
9) 2-Nitrophenol-d4	9.53	143	82435	18.43	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.06	165	177967	20.74	ng/ul	0.00
12) 4-Chloroaniline-d4	10.58	131	233619	25.10	ng/ul	0.00
16) Dimethylphthalate-d6	13.72	166	607754	17.85	ng/ul	0.00
17) Acenaphthylene-d8	14.00	160	815433	20.65	ng/ul	0.00
20) 4-Nitrophenol-d4	14.52	143	152896	21.05	ng/ul	-0.01
21) Fluorene-d10	15.30	176	617250	21.23	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.43	200	89724	13.70	ng/ul	0.00
26) Anthracene-d10	17.16	188	1130687	20.86	ng/ul	0.00
30) Pyrene-d10	19.46	212	1575096	18.78	ng/ul	0.00
37) Benzo(a)pyrene-d12	23.34	264	1905403	20.67	ng/ul	0.00

Target Compounds

						Qvalue
11) Naphthalene	10.49	128	540778	20.50	ng/ul	99
13) 2-Methylnaphthalene	12.11	142	437168	20.60	ng/ul	98
14) 1-Methylnaphthalene	12.33	142	421313	20.73	ng/ul	99
18) Acenaphthylene	14.03	152	861767	20.69	ng/ul	100
19) Acenaphthene	14.37	153	548871	20.75	ng/ul	98
22) Fluorene	15.36	166	693014	21.75	ng/ul	99
25) Phenanthrene	17.10	178	1326216	20.90	ng/ul	100
27) Anthracene	17.19	178	1383879	21.12	ng/ul	99
28) Fluoranthene	19.12	202	1904148	23.42	ng/ul	99
31) Pyrene	19.49	202	2064886	18.84	ng/ul	96
32) Benzo(a)anthracene	21.24	228	2289075	20.13	ng/ul	100
33) Chrysene	21.30	228	2140664	20.61	ng/ul	99
35) Benzo(b)fluoranthene	22.82	252	2455976	20.71	ng/ul	99
36) Benzo(k)fluoranthene	22.86	252	2397982	21.73	ng/ul	98
38) Benzo(a)pyrene	23.39	252	2332250	20.51	ng/ul	99
39) Indeno(1,2,3-cd)pyrene	25.71	276	2541502	18.75	ng/ul	94
40) Dibenzo(a,h)anthracene	25.73	278	2129846	18.89	ng/ul	98
41) Benzo(g,h,i)perylene	26.41	276	2154598	18.38	ng/ul	98

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



#11

Naphthalene

Concen: 20.50 ng/ul

RT: 10.49 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BM006083.D

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BNA_M

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SSTD02040

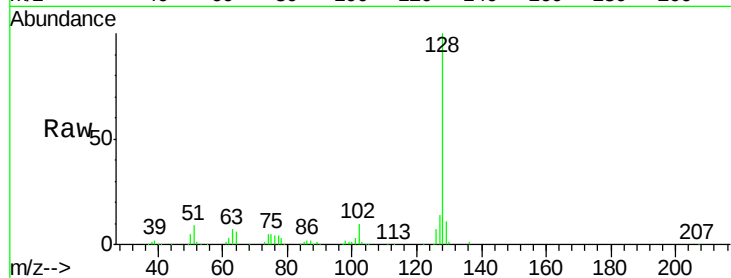
Tgt Ion:128 Resp: 540778

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

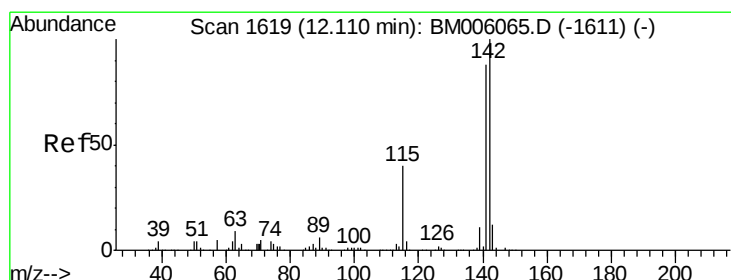
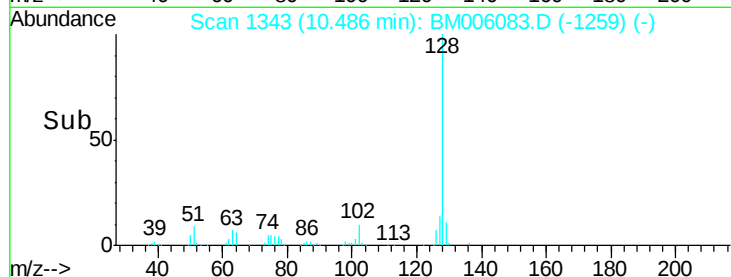
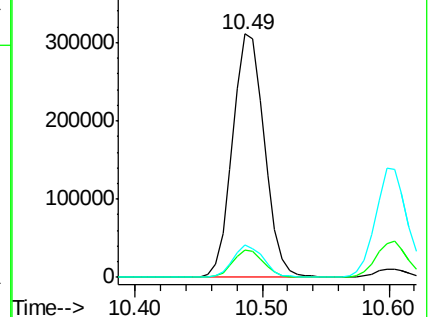
127 13.6 10.5 15.7



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



#13

2-Methylnaphthalene

Concen: 20.60 ng/ul

RT: 12.11 min Scan# 1619

Delta R.T. 0.00 min

Lab File: BM006083.D

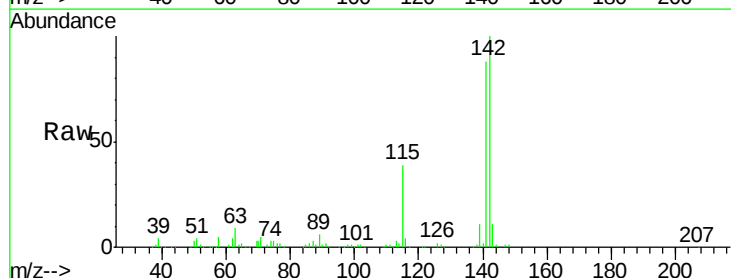
Acq: 27 Jun 2016 23:09

Tgt Ion:142 Resp: 437168

Ion Ratio Lower Upper

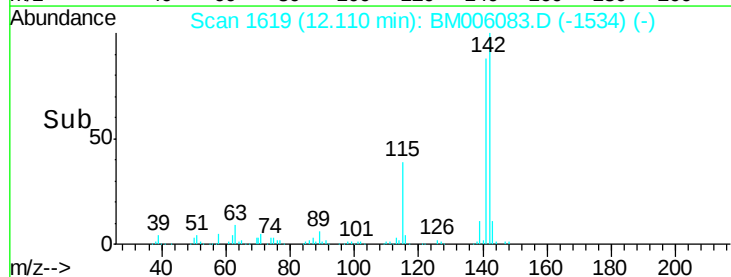
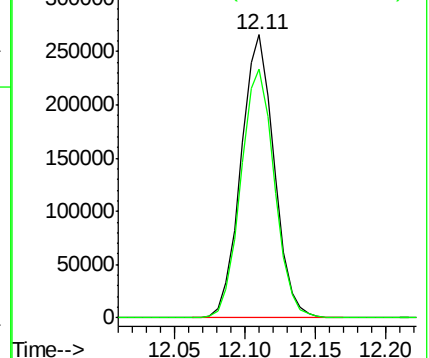
142 100

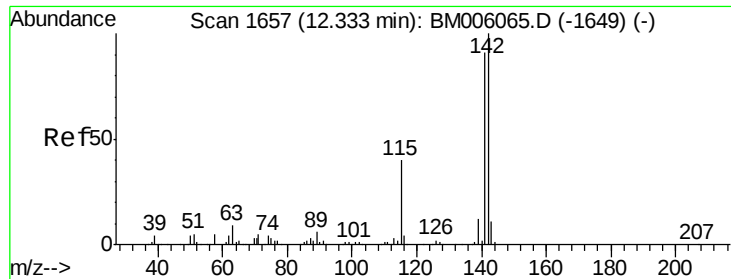
141 87.8 69.0 103.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

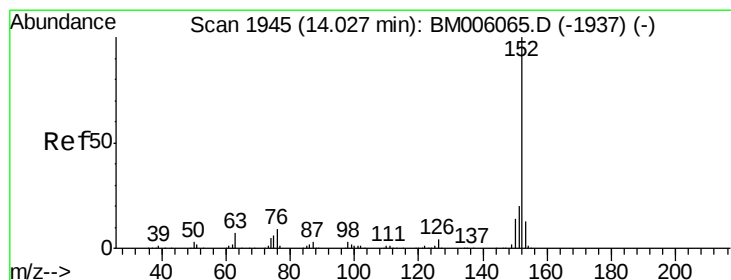
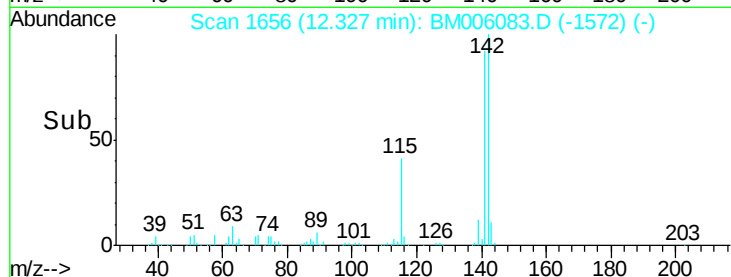
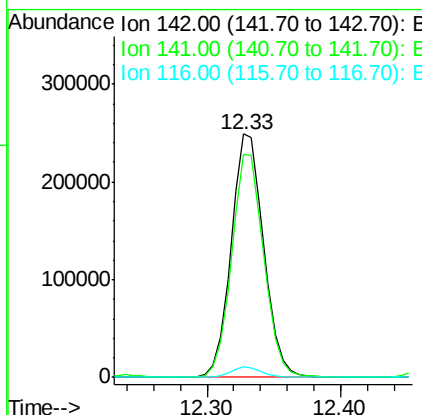
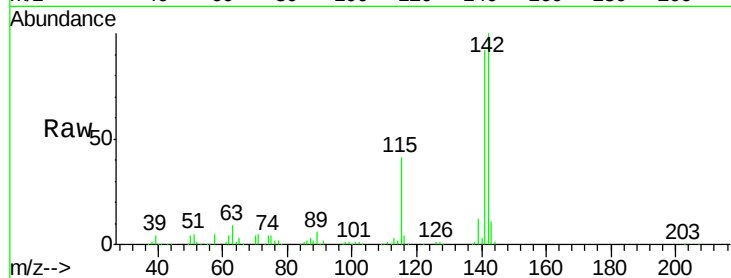




#14
 1-Methylnaphthalene
 Concen: 20.73 ng/ul
 RT: 12.33 min Scan# 1656
 Delta R.T. -0.01 min
 Lab File: BM006083.D
 Acq: 27 Jun 2016 23:09

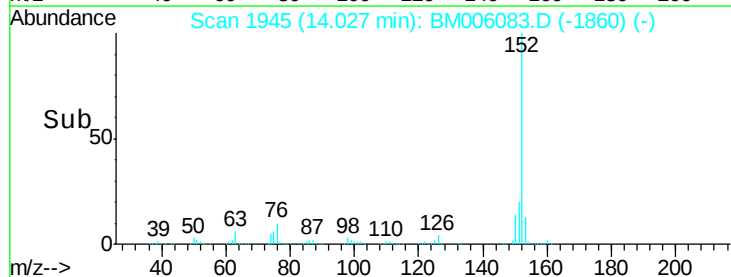
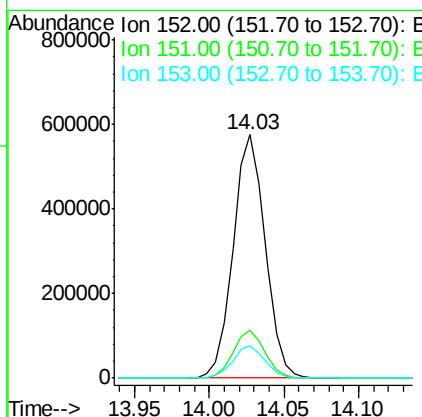
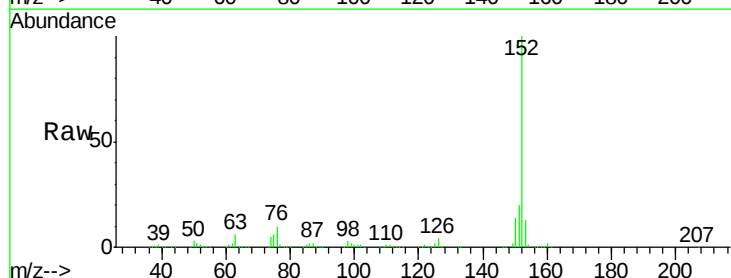
Instrument :
 BNA_M
 ClientSampleId :
 SSTD02040

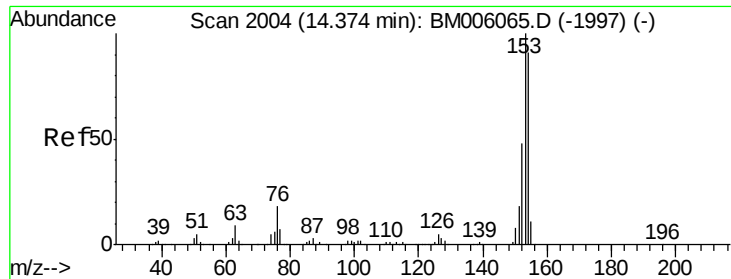
Tgt Ion:142 Resp: 421313
 Ion Ratio Lower Upper
 142 100
 141 91.8 73.0 109.4
 116 4.4 3.0 4.6



#18
 Acenaphthylene
 Concen: 20.69 ng/ul
 RT: 14.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: BM006083.D
 Acq: 27 Jun 2016 23:09

Tgt Ion:152 Resp: 861767
 Ion Ratio Lower Upper
 152 100
 151 19.7 15.8 23.6
 153 13.2 10.3 15.5





#19

Acenaphthene

Concen: 20.75 ng/ul

RT: 14.37 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

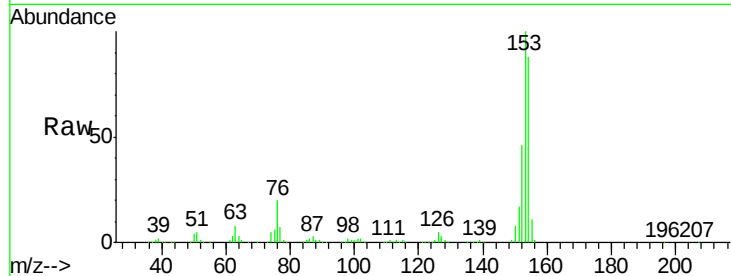
Tgt Ion:153 Resp: 548871

Ion Ratio Lower Upper

153 100

152 45.7 38.1 57.1

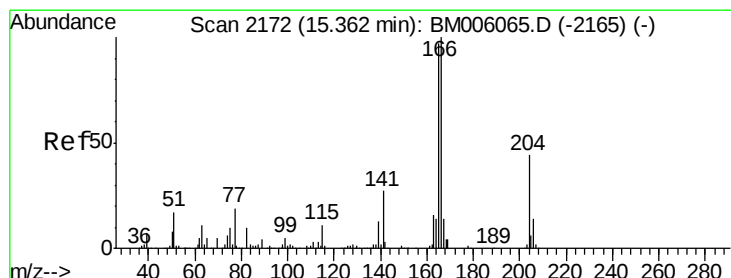
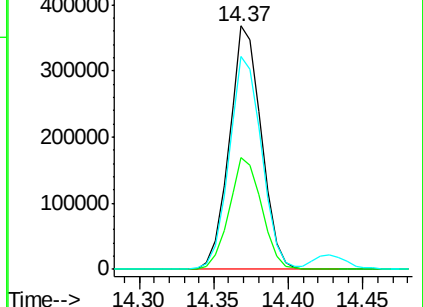
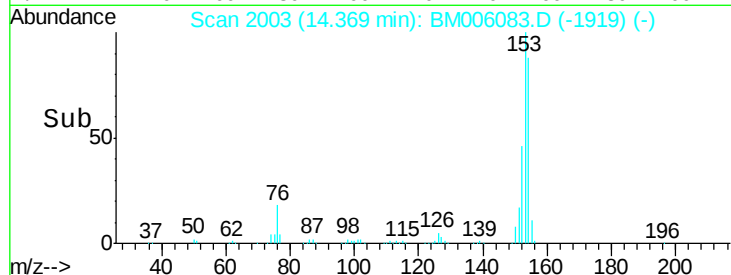
154 87.5 71.6 107.4



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



#22

Fluorene

Concen: 21.75 ng/ul

RT: 15.36 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

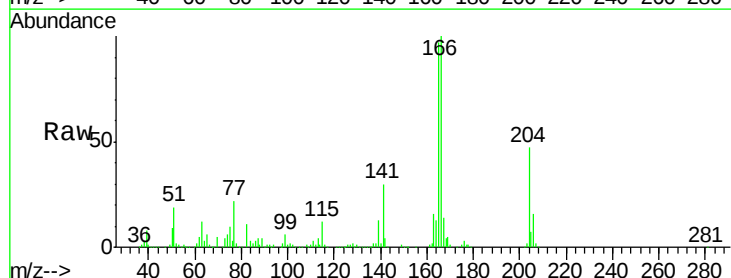
Tgt Ion:166 Resp: 693014

Ion Ratio Lower Upper

166 100

165 97.1 78.4 117.6

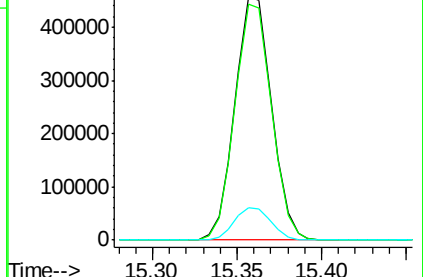
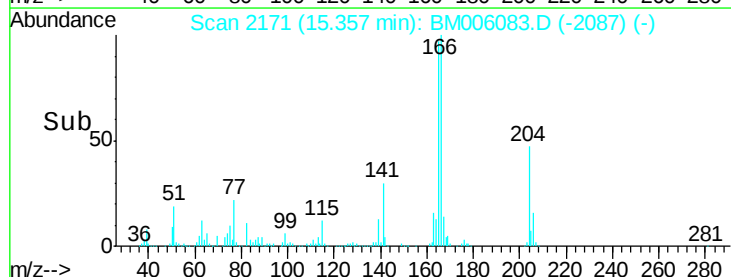
167 13.6 10.6 16.0

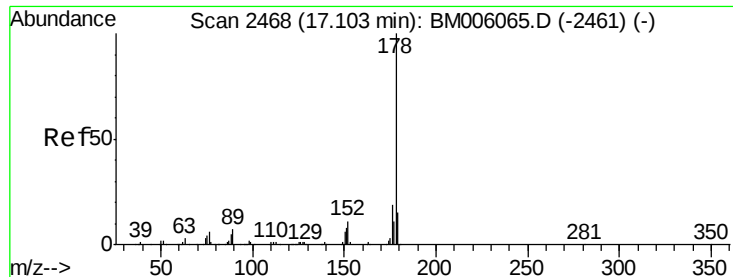


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#25

Phenanthrene

Concen: 20.90 ng/ul

RT: 17.10 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

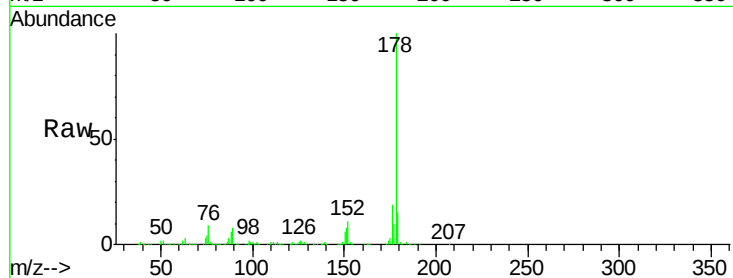
Tgt Ion:178 Resp: 1326216

Ion Ratio Lower Upper

178 100

179 15.5 12.2 18.2

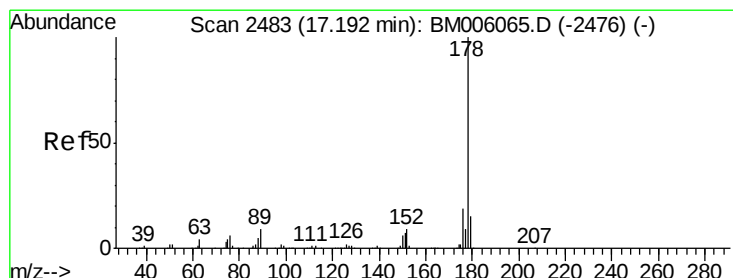
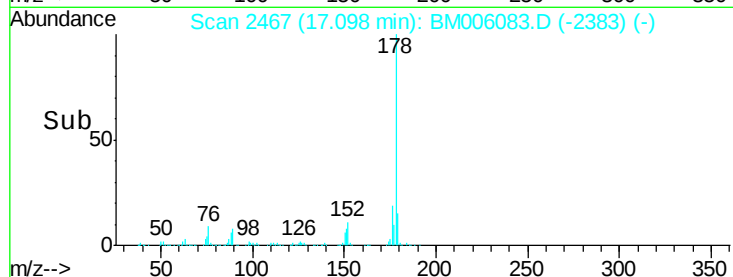
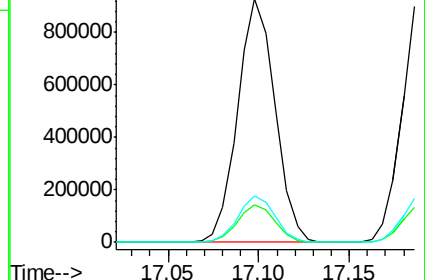
176 18.9 15.3 22.9



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



#27

Anthracene

Concen: 21.12 ng/ul

RT: 17.19 min Scan# 2483

Delta R.T. 0.00 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

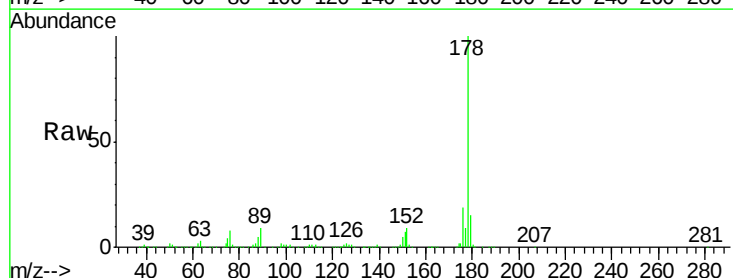
Tgt Ion:178 Resp: 1383879

Ion Ratio Lower Upper

178 100

179 15.0 12.3 18.5

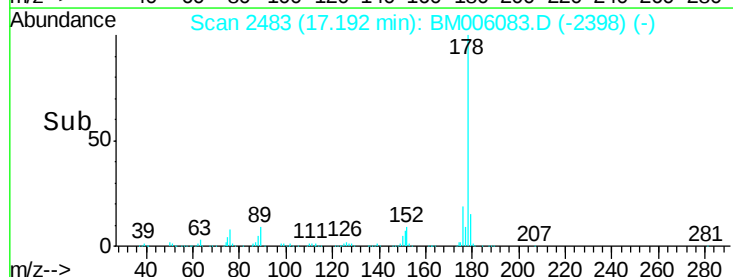
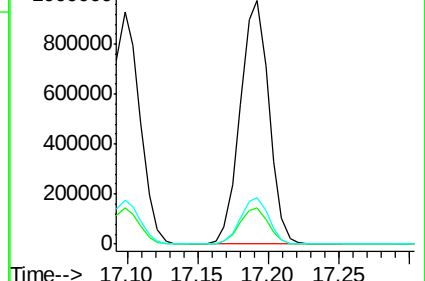
176 18.8 14.6 22.0

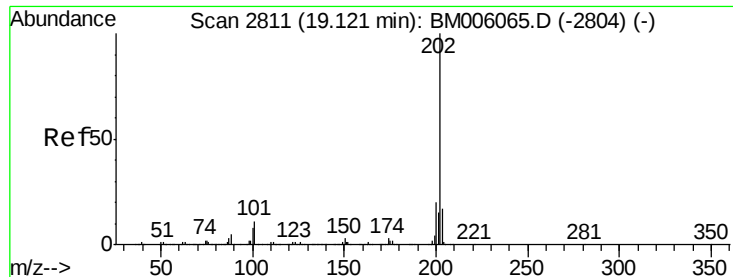


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

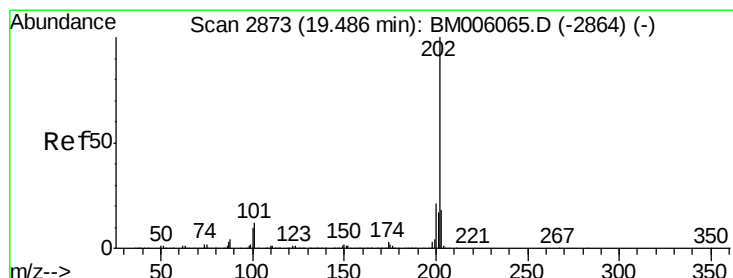
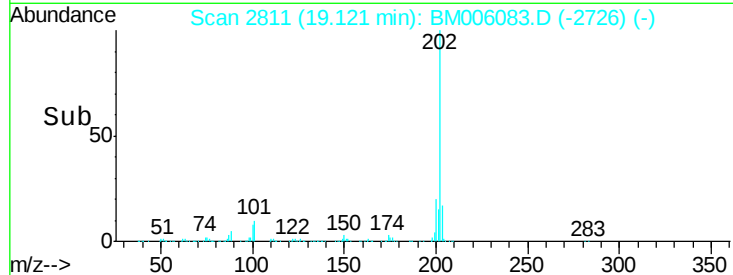
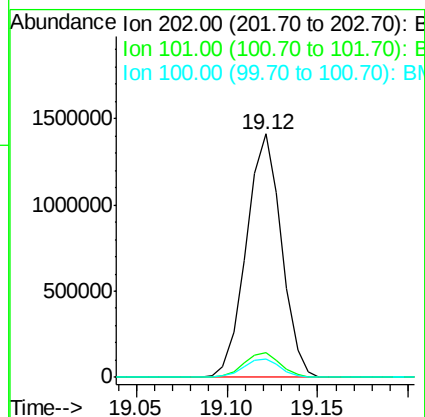
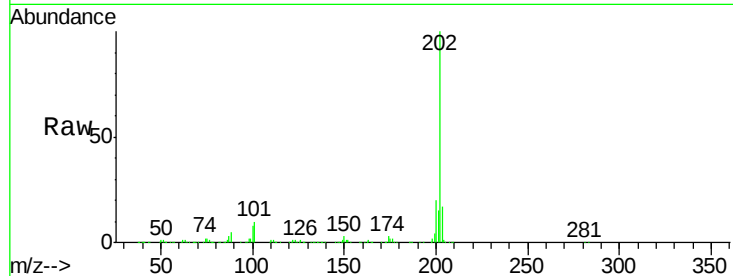




#28
Fluoranthene
Concen: 23.42 ng/ul
RT: 19.12 min Scan# 2811
Delta R.T. 0.00 min
Lab File: BM006083.D
Acq: 27 Jun 2016 23:09

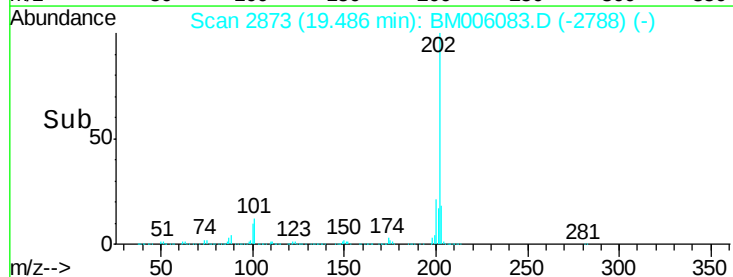
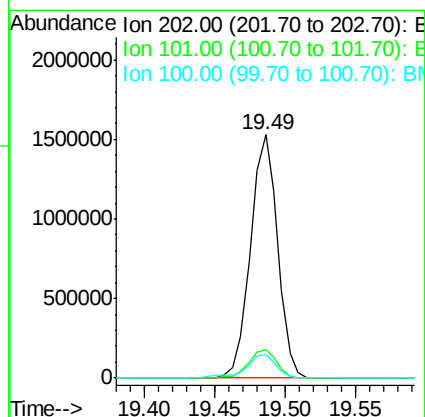
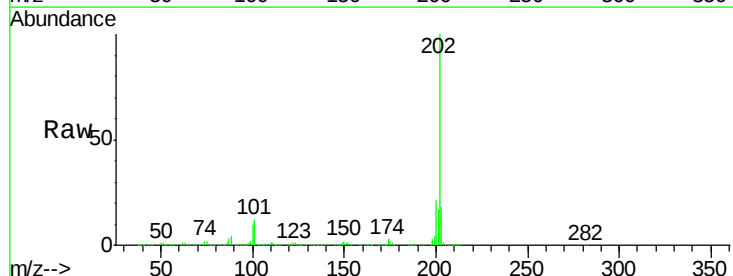
Instrument :
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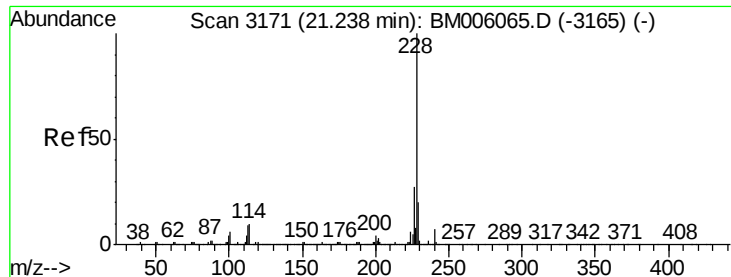
Tgt Ion:202 Resp: 1904148
Ion Ratio Lower Upper
202 100
101 10.1 8.5 12.7
100 7.7 6.5 9.7



#31
Pyrene
Concen: 18.84 ng/ul
RT: 19.49 min Scan# 2873
Delta R.T. 0.00 min
Lab File: BM006083.D
Acq: 27 Jun 2016 23:09

Tgt Ion:202 Resp: 2064886
Ion Ratio Lower Upper
202 100
101 11.8 11.0 16.4
100 9.6 8.9 13.3





#32

Benzo(a)anthracene

Concen: 20.13 ng/ul

RT: 21.24 min Scan# 3171

Delta R.T. 0.00 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

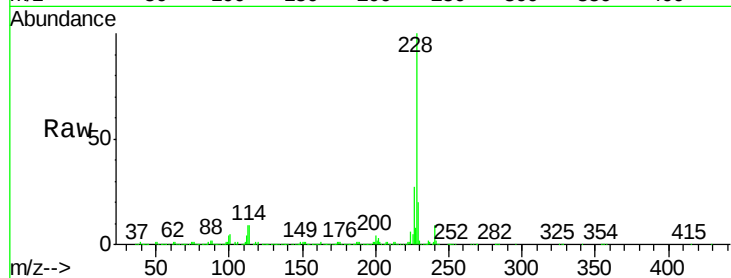
Tgt Ion:228 Resp: 2289075

Ion Ratio Lower Upper

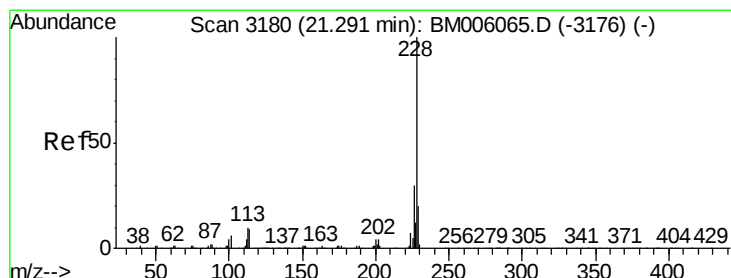
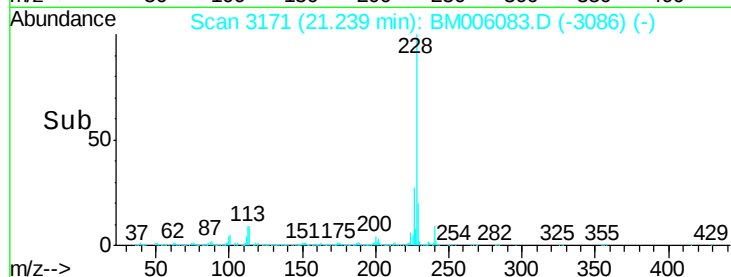
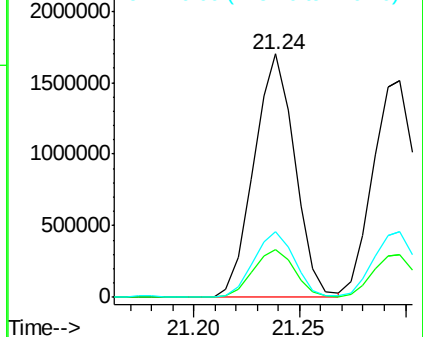
228 100

229 19.6 15.6 23.4

226 27.2 21.6 32.4



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



#33

Chrysene

Concen: 20.61 ng/ul

RT: 21.30 min Scan# 3181

Delta R.T. 0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

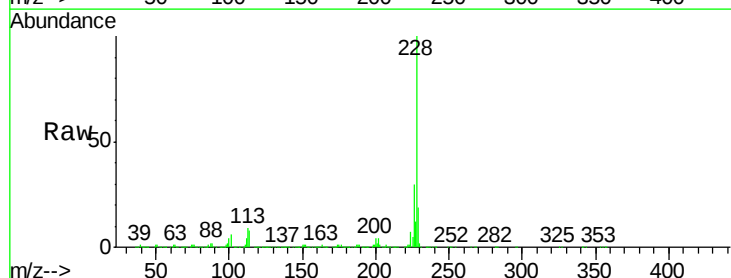
Tgt Ion:228 Resp: 2140664

Ion Ratio Lower Upper

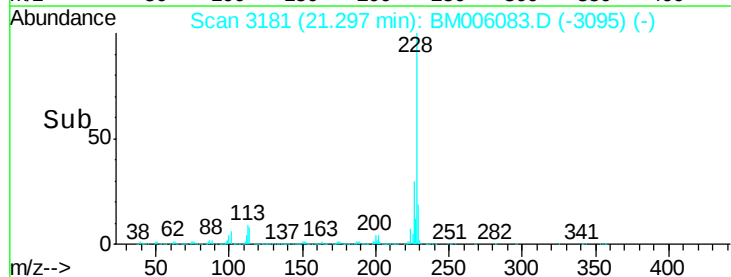
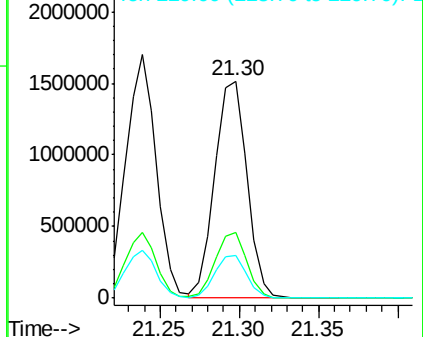
228 100

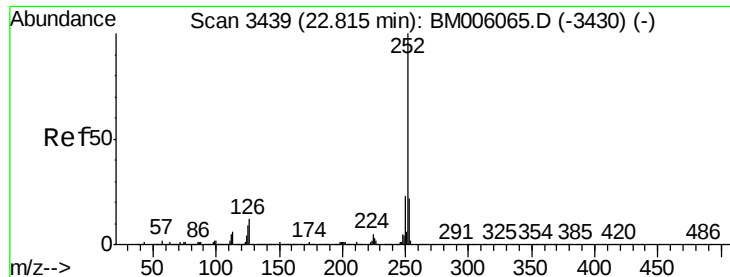
226 30.1 23.8 35.6

229 19.4 15.8 23.6



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





#35

Benzo(b)fluoranthene

Concen: 20.71 ng/ul

RT: 22.82 min Scan# 3439

Delta R.T. 0.00 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

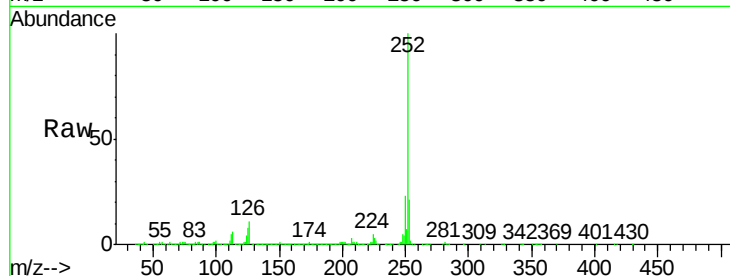
Tgt Ion:252 Resp: 2455976

Ion Ratio Lower Upper

252 100

253 21.3 17.2 25.8

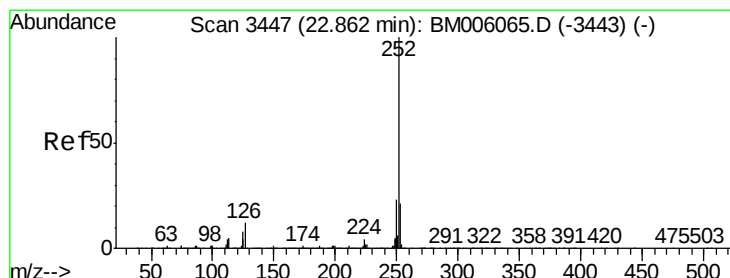
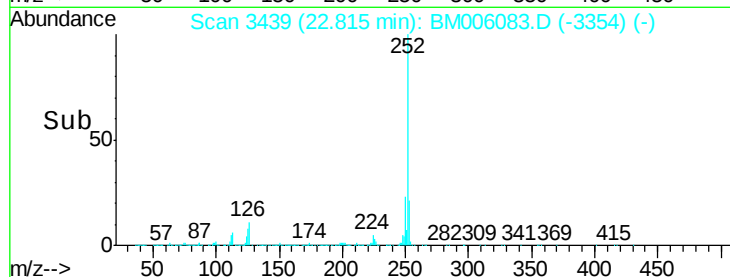
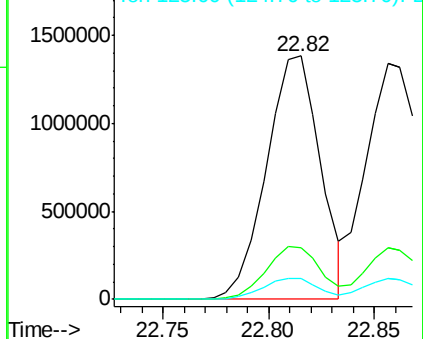
125 8.3 7.8 11.6



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



#36

Benzo(k)fluoranthene

Concen: 21.73 ng/ul

RT: 22.86 min Scan# 3446

Delta R.T. -0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

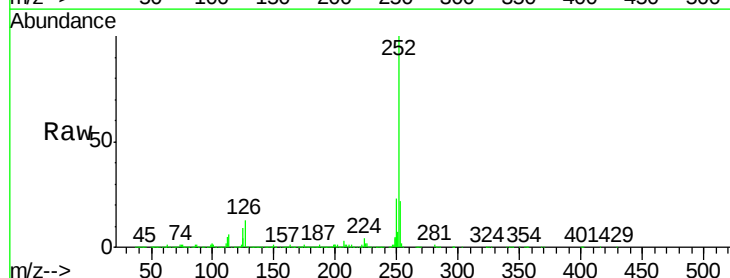
Tgt Ion:252 Resp: 2397982

Ion Ratio Lower Upper

252 100

253 21.7 17.6 26.4

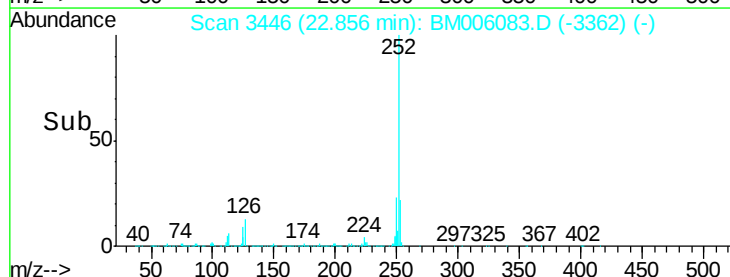
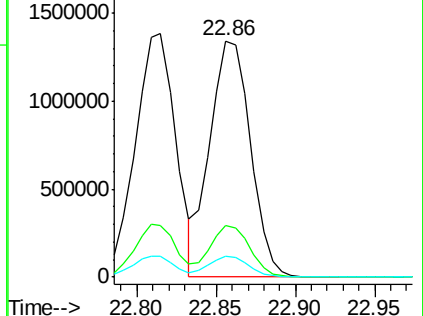
125 8.6 8.1 12.1

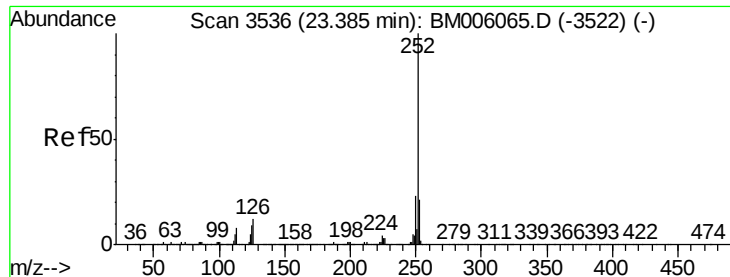


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 20.51 ng/ul

RT: 23.39 min Scan# 3536

Delta R.T. 0.00 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

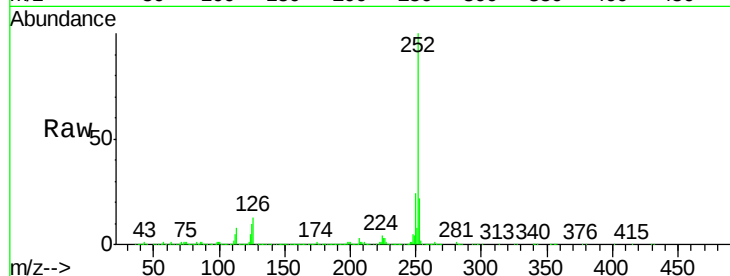
Tgt Ion:252 Resp: 2332250

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.6

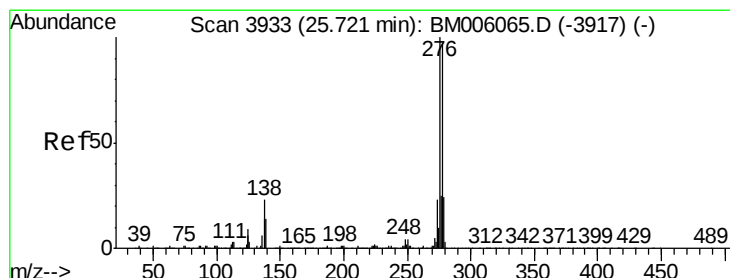
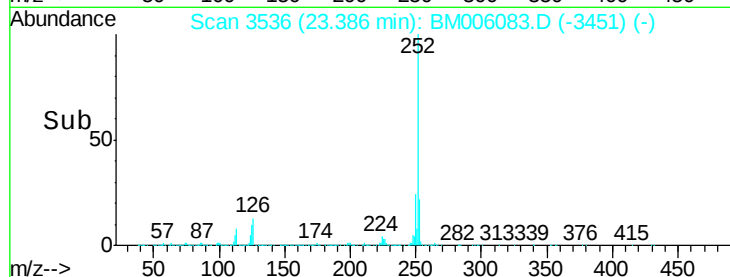
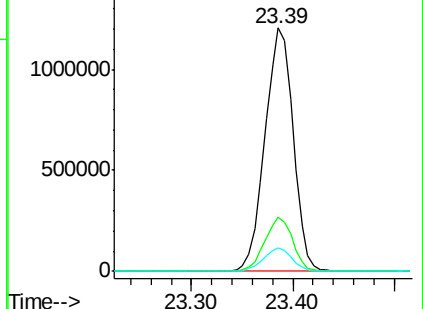
125 9.7 8.7 13.1



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



#39

Indeno(1,2,3-cd)pyrene

Concen: 18.75 ng/ul

RT: 25.71 min Scan# 3932

Delta R.T. -0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

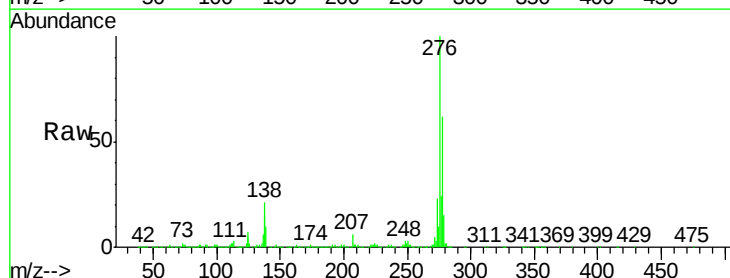
Tgt Ion:276 Resp: 2541502

Ion Ratio Lower Upper

276 100

138 21.2 20.4 30.6

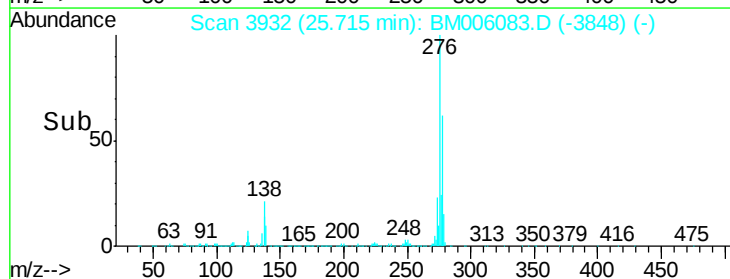
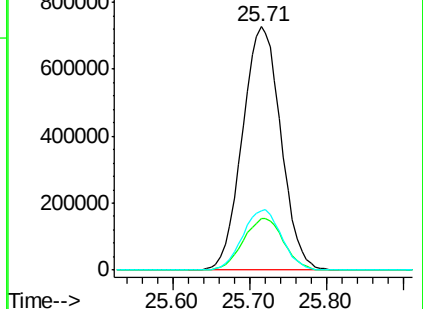
277 24.3 20.6 30.8

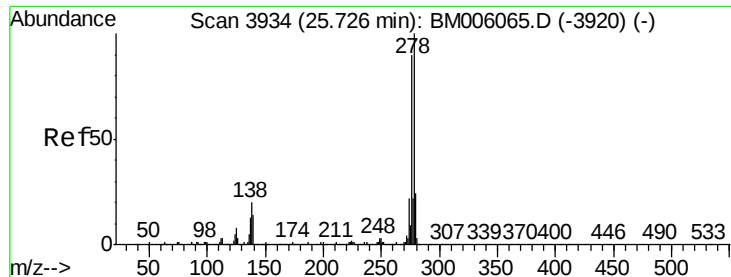


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#40

Dibenzo(a,h)anthracene

Concen: 18.89 ng/ul

RT: 25.73 min Scan# 3935

Delta R.T. 0.01 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

Instrument :

BNA_M

ClientSampleId :

SSTD02040

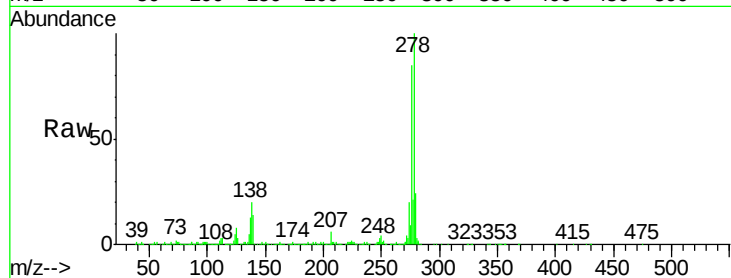
Tgt Ion:278 Resp: 2129846

Ion Ratio Lower Upper

278 100

139 14.1 13.0 19.4

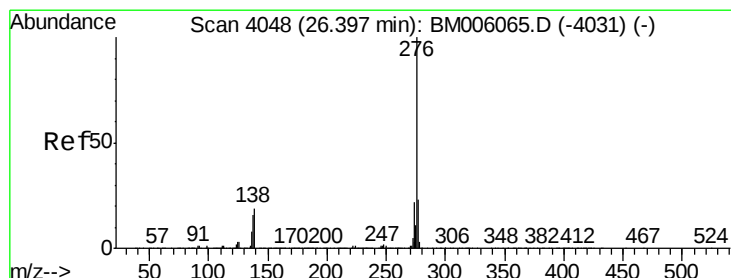
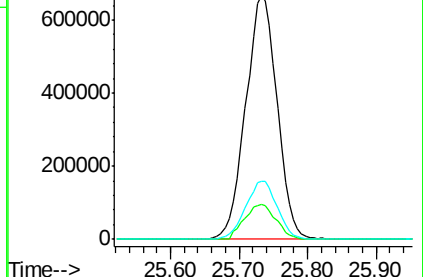
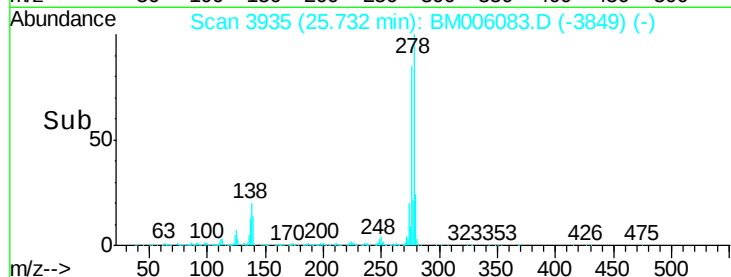
279 23.7 18.8 28.2



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



#41

Benzo(g,h,i)perylene

Concen: 18.38 ng/ul

RT: 26.41 min Scan# 4051

Delta R.T. 0.02 min

Lab File: BM006083.D

Acq: 27 Jun 2016 23:09

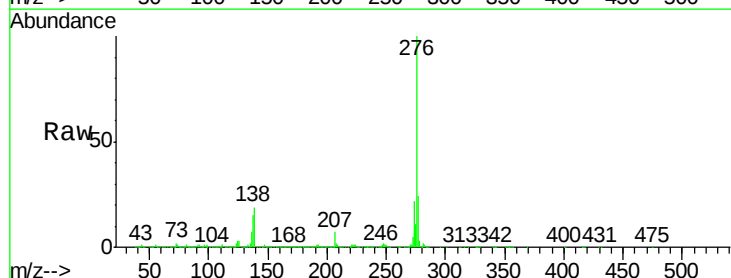
Tgt Ion:276 Resp: 2154598

Ion Ratio Lower Upper

276 100

138 19.3 16.6 25.0

277 23.7 18.9 28.3



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

