

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052116\
 Data File : BM005580.D
 Acq On : 22 May 2016 09:04
 Operator : UM/SJ
 Sample : H2890-06
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 23 07:39:10 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	7.83	152	111951	20.00	ng/ul	0.02
18) Naphthalene-d8	10.62	136	458523	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.46	164	247981	20.00	ng/ul	0.01
61) Phenanthrene-d10	17.20	188	537375	20.00	ng/ul	0.02
75) Chrysene-d12	21.38	240	588941	20.00	ng/ul	0.02
83) Perylene-d12	23.67	264	627715	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	7662	3.00	ng/uL	0.02
5) Phenol-d5	7.00	99	149548	16.30	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.16	67	97233	18.28	ng/ul	0.01
9) 2-Chlorophenol-d4	7.36	132	132281	17.28	ng/ul	0.02
13) 4-Methylphenol-d8	8.53	113	114405	15.21	ng/ul	0.02
19) Nitrobenzene-d5	8.98	128	67080	19.13	ng/ul	0.01
22) 2-Nitrophenol-d4	9.70	143	75370	19.53	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.25	165	124929	17.19	ng/ul	0.02
29) 4-Chloroaniline-d4	10.76	131	82196	11.29	ng/ul	0.02
43) Dimethylphthalate-d6	13.87	166	387365	19.14	ng/ul	0.01
46) Acenaphthylene-d8	14.15	160	488542	19.30	ng/ul	0.01
51) 4-Nitrophenol-d4	14.67	143	28675	7.49	ng/ul	0.02
57) Fluorene-d10	15.45	176	338089	19.19	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.57	200	32184	10.41	ng/ul	0.01
70) Anthracene-d10	17.30	188	478943	18.71	ng/ul	0.01
76) Pyrene-d10	19.59	212	543670	20.38	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.53	264	564966	19.27	ng/ul	0.03

Target Compounds

						Ovalue
4) Benzaldehyde	6.97	77	11988	2.01	ng/ul#	29
14) Acetophenone	8.64	105	31830	2.81	ng/ul	85
17) Hexachloroethane	8.93	117	3530	1.15	ng/ul#	5
28) Naphthalene	10.67	128	486979	21.14	ng/ul	99
30) 4-Chloroaniline	10.67	127	64033	8.59	ng/ul#	10
34) 2-Methylnaphthalene	12.28	142	425951	25.27	ng/ul	100
40) 1,1'-Biphenyl	13.29	154	42169	2.03	ng/ul	98
44) Dimethylphthalate	13.92	163	133856	6.69	ng/ul	99
53) Dibenzofuran	14.86	168	123445	5.10	ng/ul	95
66) Hexachlorobenzene	16.50	284	21726	3.19	ng/ul#	90
69) Phenanthrene	17.24	178	414768	13.81	ng/ul	99
71) Anthracene	17.24	178	414768	13.55	ng/ul	99
72) Carbazole	17.61	167	26672	1.00	ng/ul#	89
74) Fluoranthene	19.26	202	394098	11.66	ng/ul	99
77) Pyrene	19.62	202	353439	10.44	ng/ul	99
80) Benzo(a)anthracene	21.36	228	214008	6.18	ng/ul	94
81) Bis(2-ethylhexyl)phthalate	21.33	149	200682	9.96	ng/ul#	54
82) Chrysene	21.41	228	261628	7.94	ng/ul	96
85) Benzo(b)fluoranthene	22.98	252	363895	9.83	ng/ul	97
86) Benzo(k)fluoranthene	22.98	252	363895	10.38	ng/ul	97
88) Benzo(a)pyrene	23.57	252	219708	6.12	ng/ul	97
89) Indeno(1,2,3-cd)pyrene	25.99	276	169636	3.98	ng/ul	98
90) Dibenz(a,h)anthracene	25.99	278	51251	1.44	ng/ul#	89

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ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :

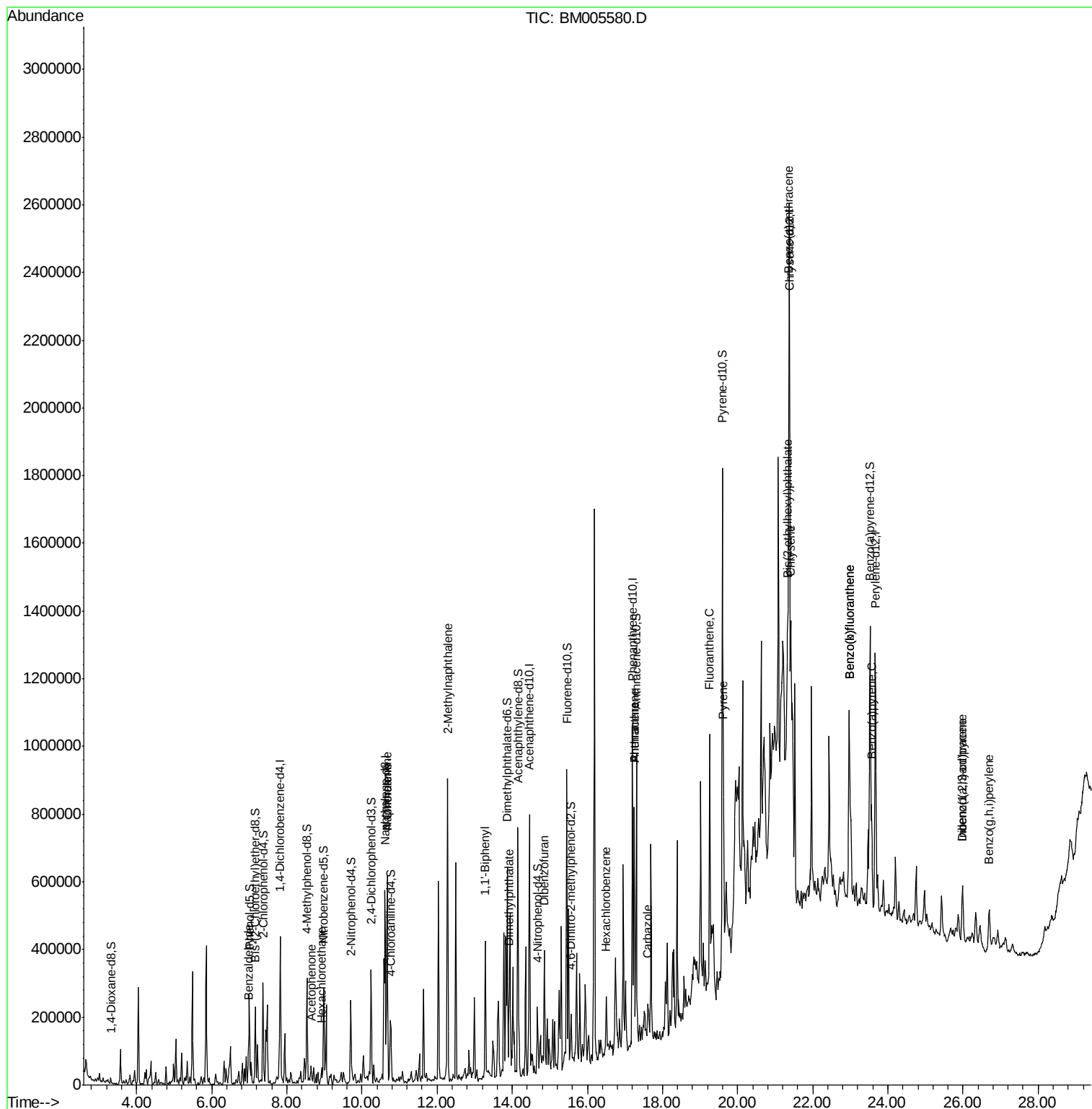
Quant Time: May 23 07:39:10 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM052016.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 23 05:32:02 2016
Response via : Initial Calibration

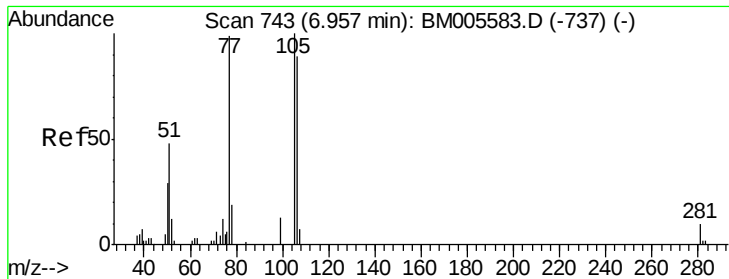
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.70	276	148959	4.15	ng/ul	97

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

Instrument :
BNA_M
ClientSampleId :

Instrument :
BNA_M
ClientSampleId :





#4

Benzaldehyde

Concen: 2.01 ng/ul

RT: 6.97 min Scan# 746

Delta R.T. 0.02 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

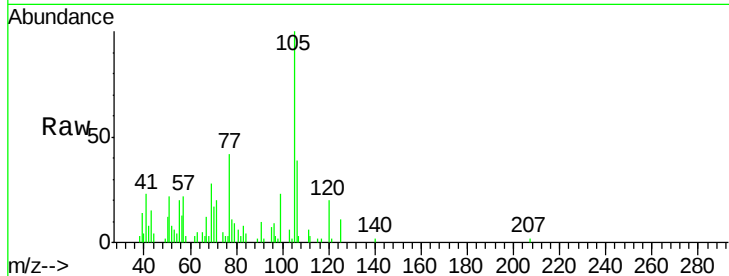
Tot Ion: 77 Resp: 11988

Ion Ratio Lower Upper

77 100

105 235.5 79.3 118.9#

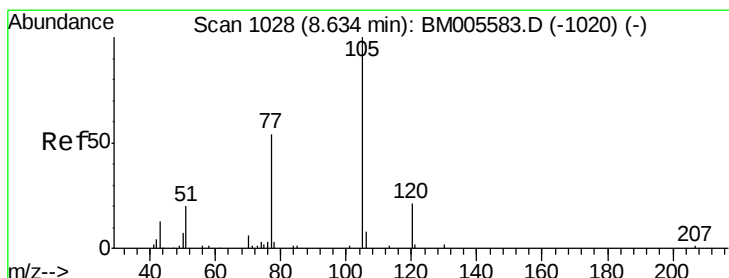
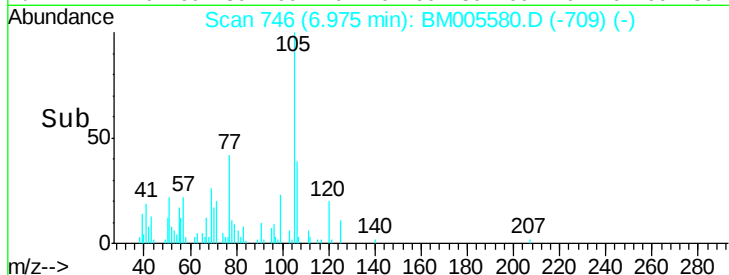
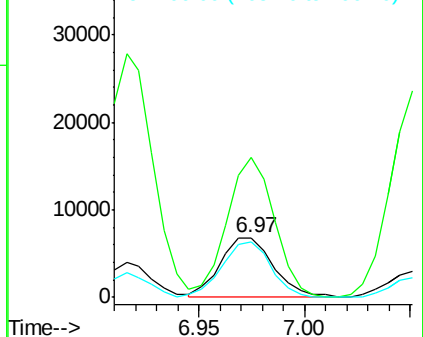
106 92.8 75.2 112.8



Abundance Ion 77.00 (76.70 to 77.70): BM005580.D (-994) (-)

Ion 105.00 (104.70 to 105.70): BM005580.D (-994) (-)

Ion 106.00 (105.70 to 106.70): BM005580.D (-994) (-)



#14

Acetophenone

Concen: 2.81 ng/ul

RT: 8.64 min Scan# 1029

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

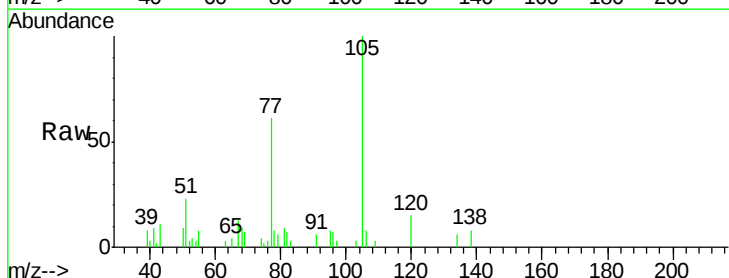
Tgt Ion: 105 Resp: 31830

Ion Ratio Lower Upper

105 100

77 61.3 60.8 91.2

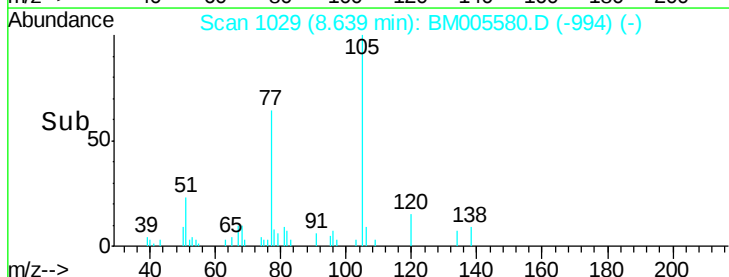
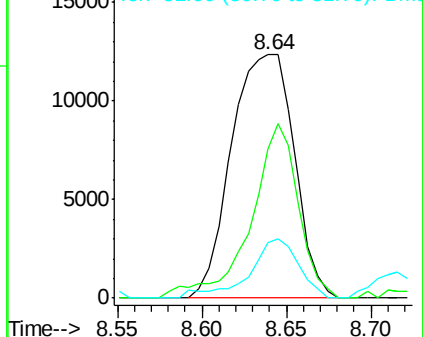
51 22.6 22.2 33.2

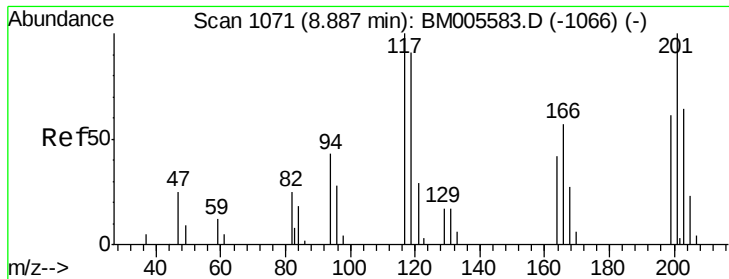


Abundance Ion 105.00 (104.70 to 105.70): BM005580.D (-994) (-)

Ion 77.00 (76.70 to 77.70): BM005580.D (-994) (-)

Ion 51.00 (50.70 to 51.70): BM005580.D (-994) (-)

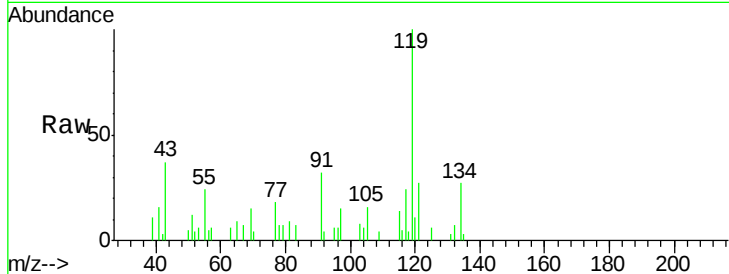




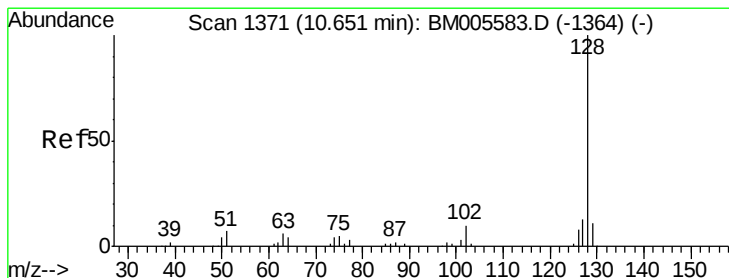
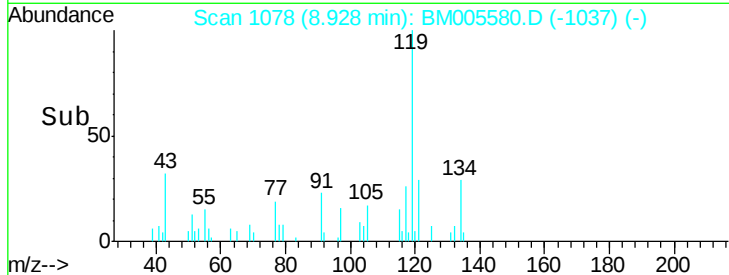
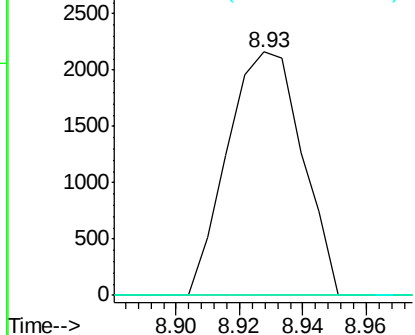
#17
Hexachloroethane
Concen: 1.15 ng/ul
RT: 8.93 min Scan# 1078
Delta R.T. 0.04 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

Instrument :
BNA_M
ClientSampleId :

Tot Ion:117 Resp: 3530
Ion Ratio Lower Upper
117 100
201 0.0 84.8 127.2#
199 0.0 50.5 75.7#

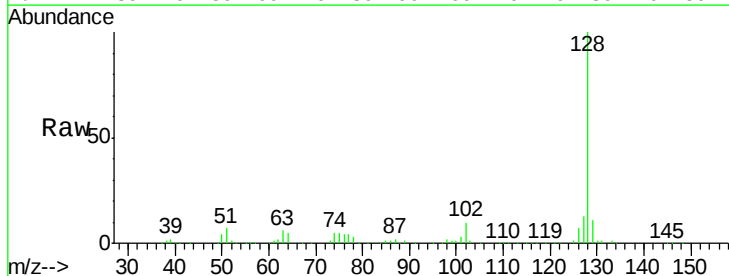


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

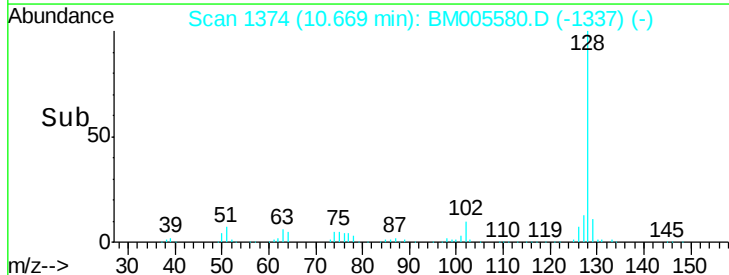
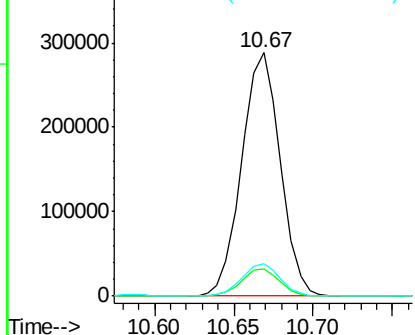


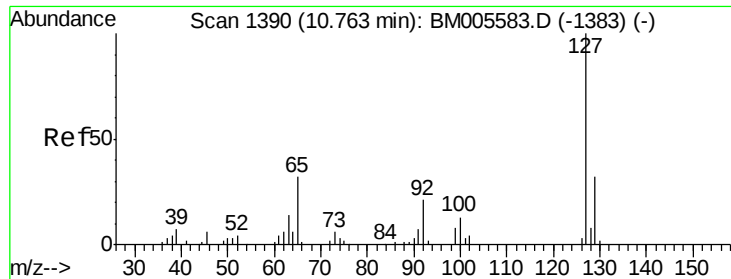
#28
Naphthalene
Concen: 21.14 ng/ul
RT: 10.67 min Scan# 1374
Delta R.T. 0.02 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

Tgt Ion:128 Resp: 486979
Ion Ratio Lower Upper
128 100
129 11.3 8.6 13.0
127 13.3 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

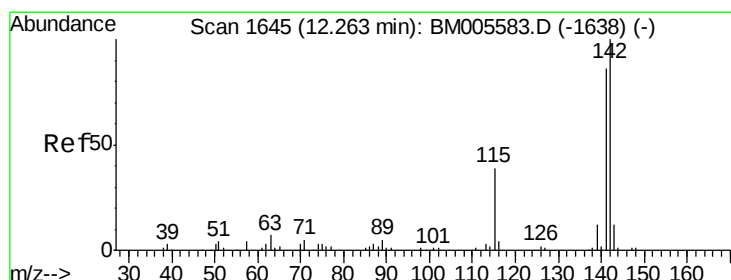
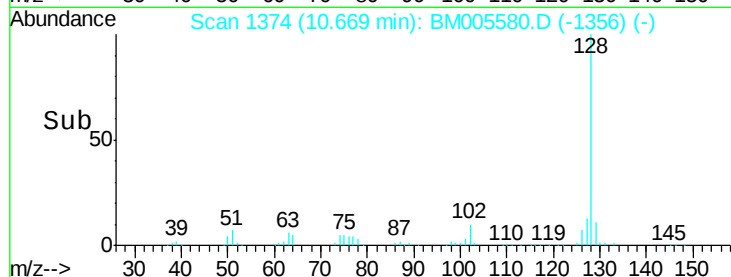
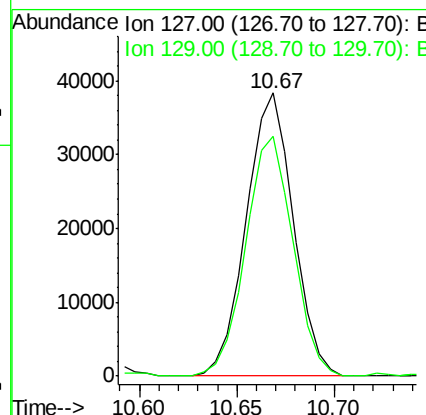
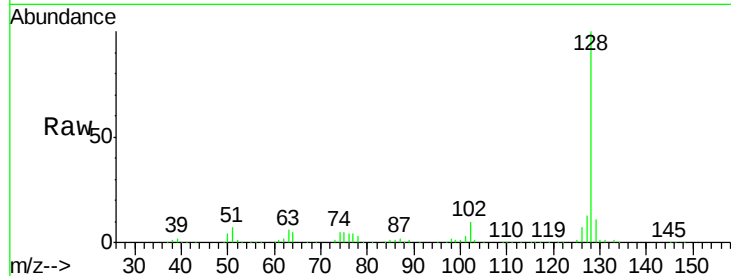




#30
 4-Chloroaniline
 Concen: 8.59 ng/ul
 RT: 10.67 min Scan# 1374
 Delta R.T. -0.09 min
 Lab File: BM005580.D
 Acq: 22 May 2016 09:04

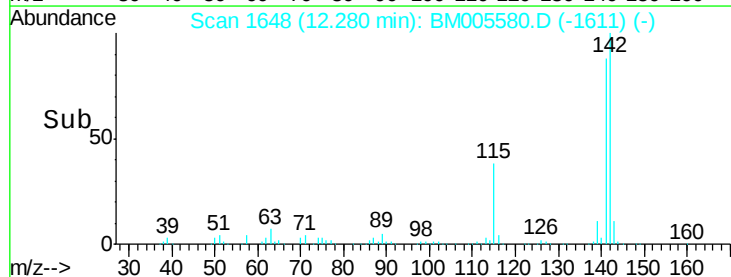
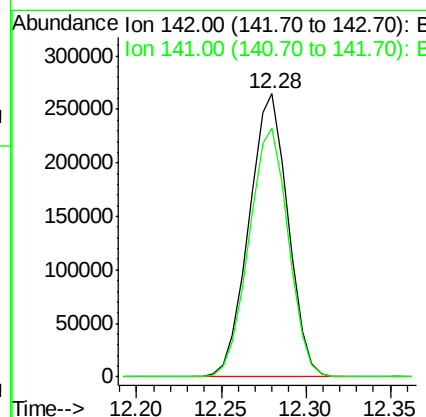
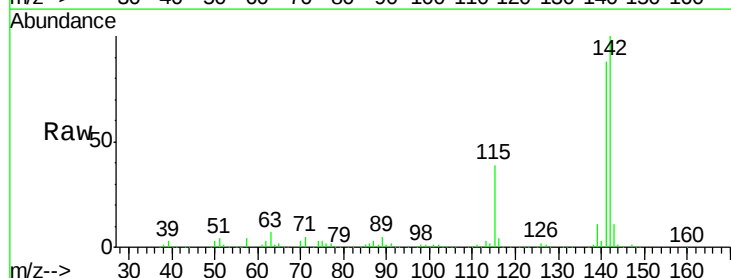
Instrument :
 BNA_M
 ClientSampleId :

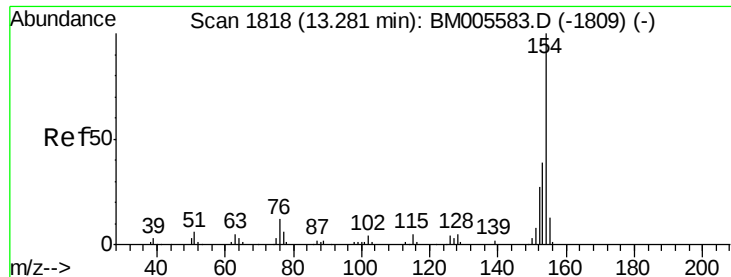
Tot Ion:127 Resp: 64033
 Ion Ratio Lower Upper
 127 100
 129 84.7 26.9 40.3#



#34
 2-Methylnaphthalene
 Concen: 25.27 ng/ul
 RT: 12.28 min Scan# 1648
 Delta R.T. 0.02 min
 Lab File: BM005580.D
 Acq: 22 May 2016 09:04

Tgt Ion:142 Resp: 425951
 Ion Ratio Lower Upper
 142 100
 141 88.1 70.6 106.0





#40

1,1'-Biphenyl

Concen: 2.03 ng/ul

RT: 13.29 min Scan# 1819

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

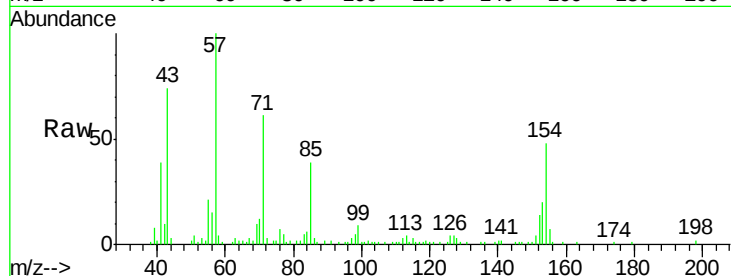
Tot Ion:154 Resp: 42169

Ion Ratio Lower Upper

154 100

153 40.6 31.7 47.5

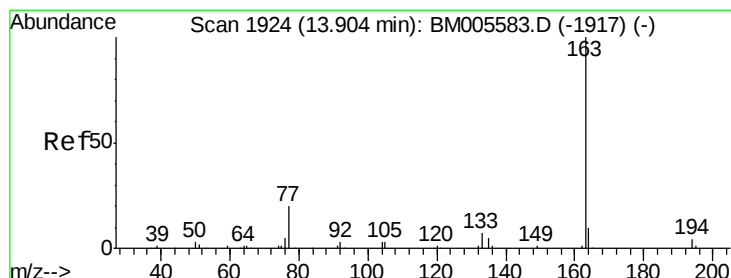
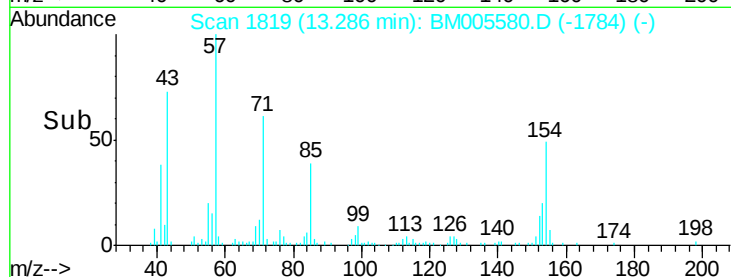
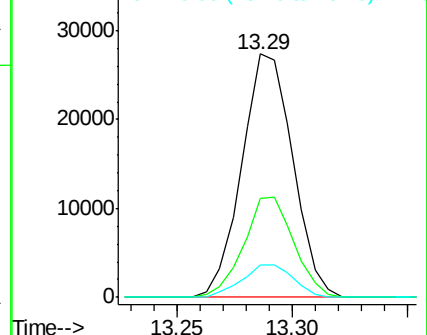
76 13.5 10.1 15.1



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: 6.69 ng/ul

RT: 13.92 min Scan# 1926

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

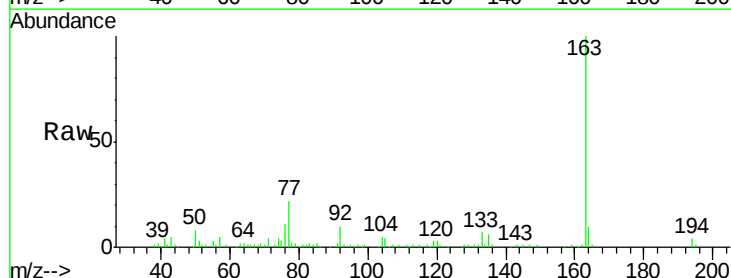
Tgt Ion:163 Resp: 133856

Ion Ratio Lower Upper

163 100

194 4.4 3.4 5.0

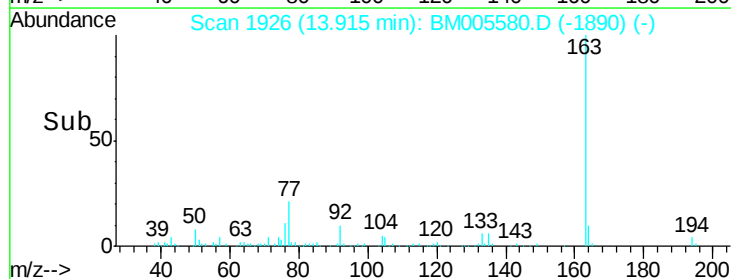
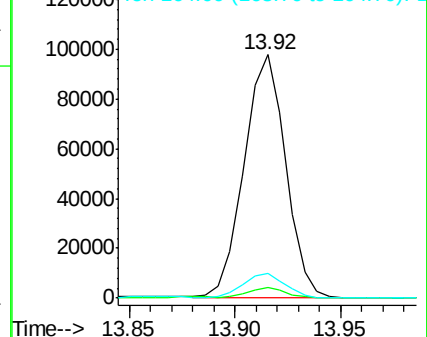
164 10.3 8.0 12.0

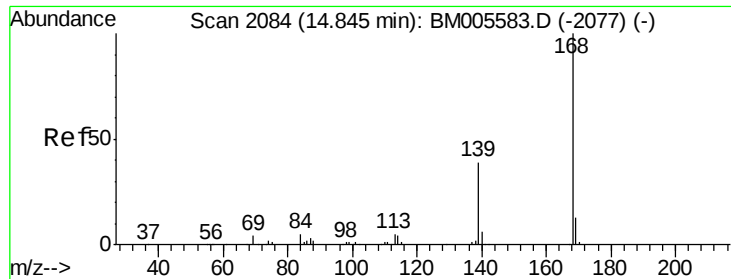


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#53

Dibenzenofuran

Concen: 5.10 ng/ul

RT: 14.86 min Scan# 2086

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

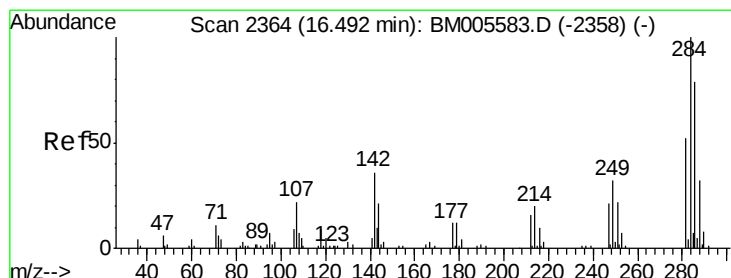
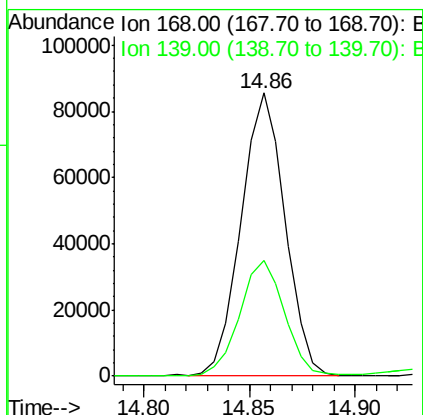
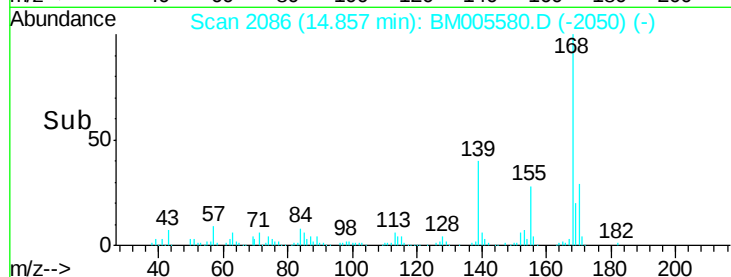
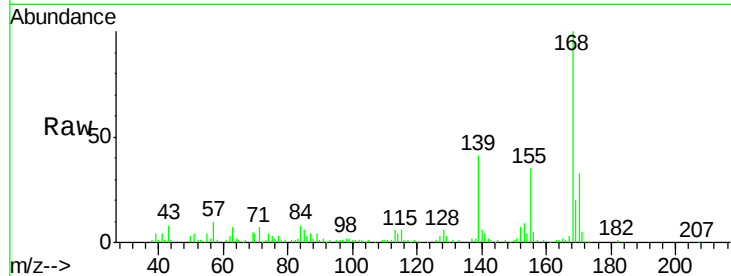
ClientSampled :

Tot Ion:168 Resp: 123445

Ion Ratio Lower Upper

168 100

139 41.1 30.6 46.0



#66

Hexachlorobenzene

Concen: 3.19 ng/ul

RT: 16.50 min Scan# 2366

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

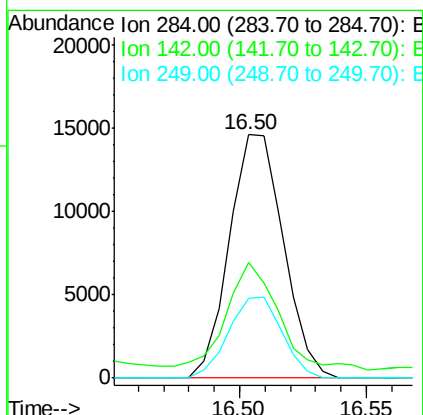
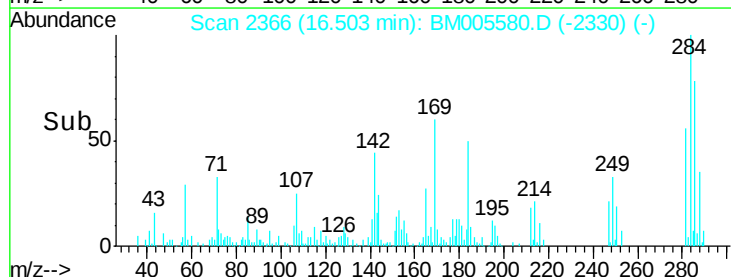
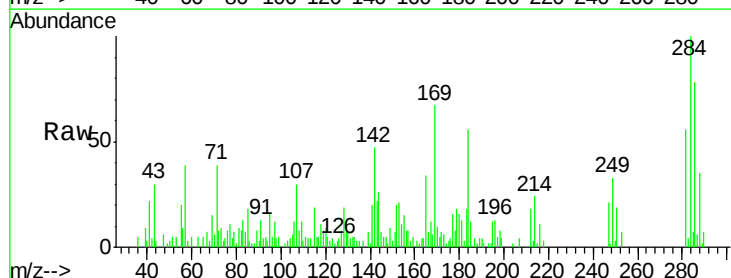
Tgt Ion:284 Resp: 21726

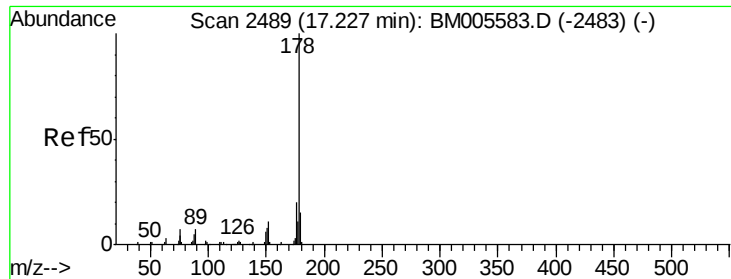
Ion Ratio Lower Upper

284 100

142 47.4 29.1 43.7#

249 32.9 26.4 39.6





#69

Phenanthrene

Concen: 13.81 ng/ul

RT: 17.24 min Scan# 2492

Delta R.T. 0.02 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

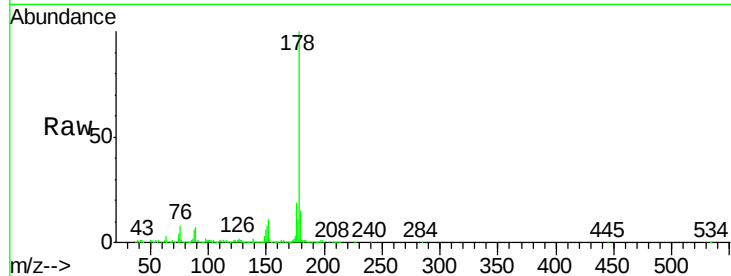
Tot Ion:178 Resp: 414768

Ion Ratio Lower Upper

178 100

179 15.3 12.2 18.2

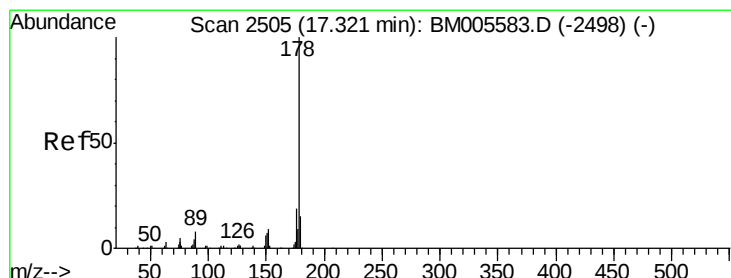
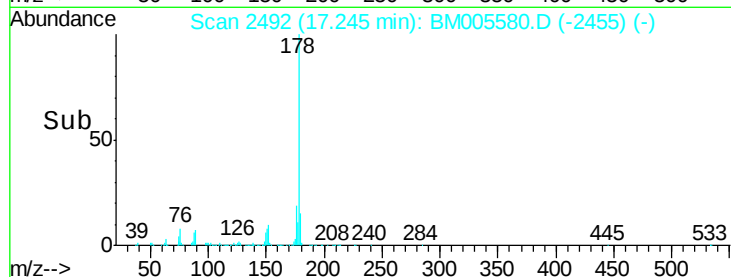
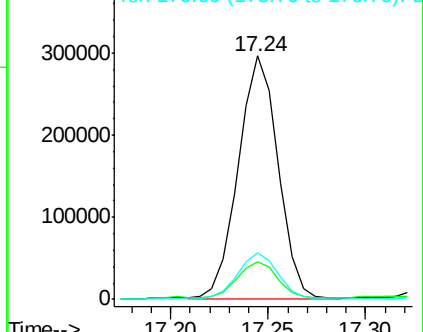
176 19.1 15.8 23.6



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: 13.55 ng/ul

RT: 17.24 min Scan# 2492

Delta R.T. -0.08 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

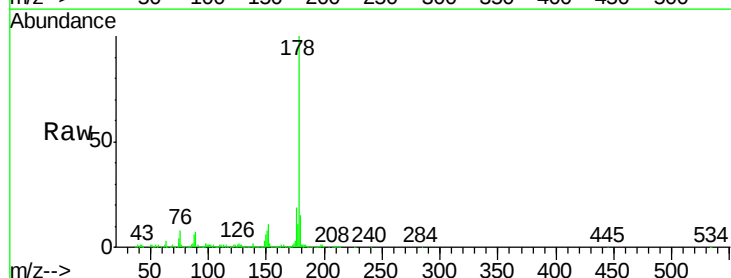
Tgt Ion:178 Resp: 414768

Ion Ratio Lower Upper

178 100

179 15.3 12.6 18.8

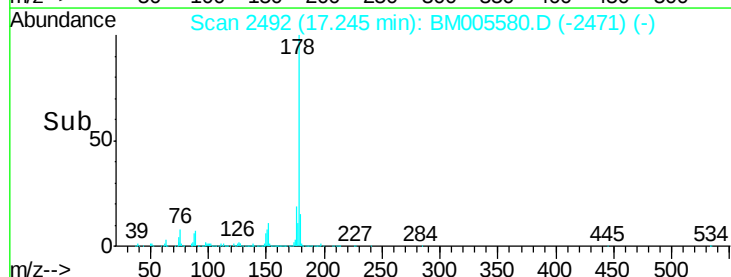
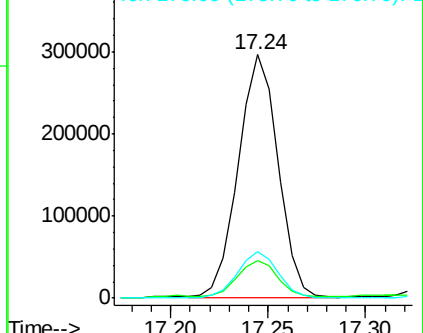
176 19.1 15.0 22.4

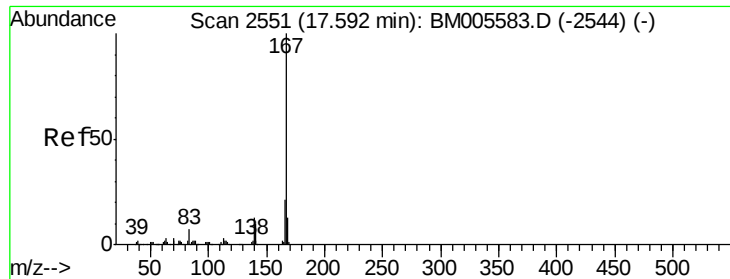


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

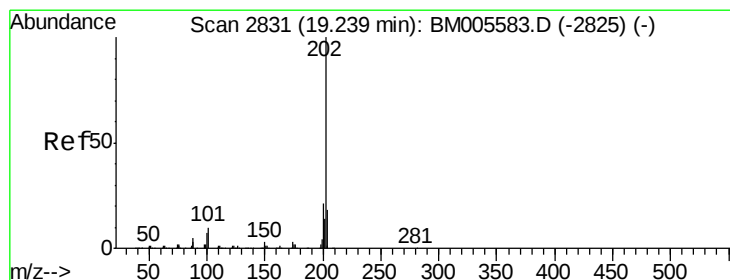
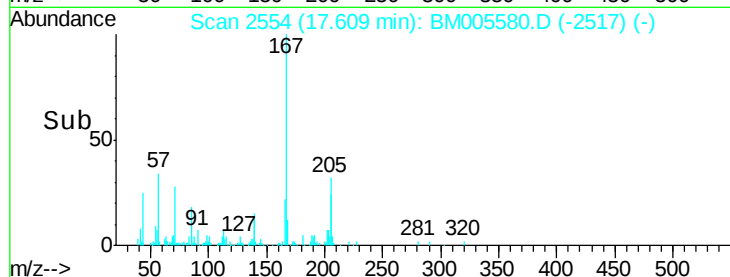
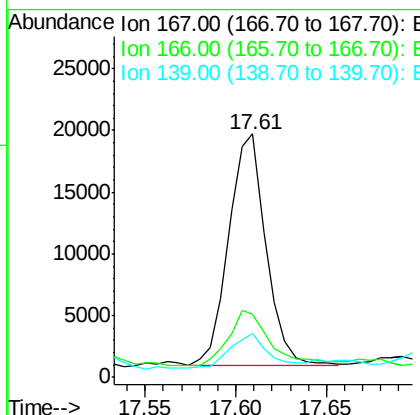
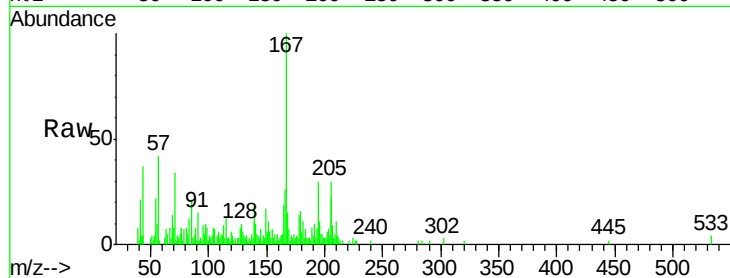




#72
 Carbazole
 Concen: 1.00 ng/ul
 RT: 17.61 min Scan# 2554
 Delta R.T. 0.02 min
 Lab File: BM005580.D
 Acq: 22 May 2016 09:04

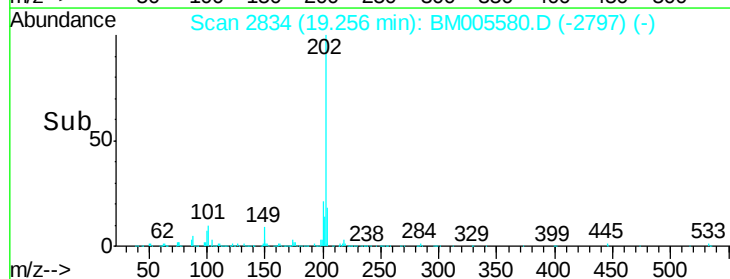
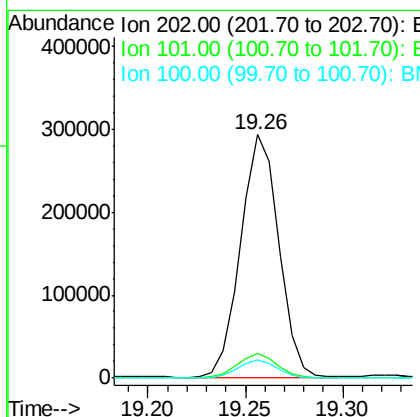
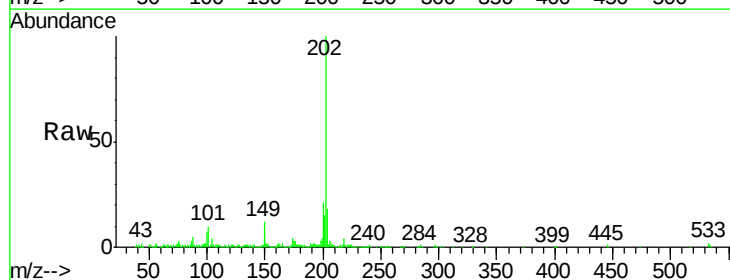
Instrument :
 BNA_M
 ClientSampled :

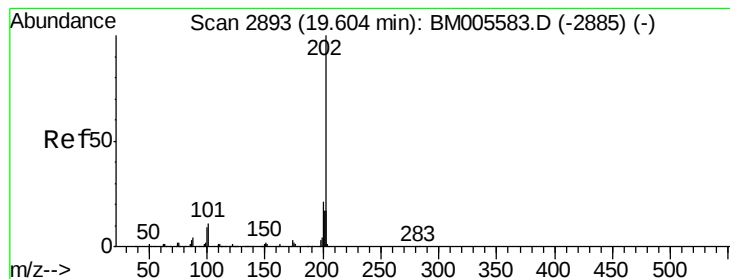
Tot Ion:167 Resp: 26672
 Ion Ratio Lower Upper
 167 100
 166 26.0 16.9 25.3#
 139 18.2 10.6 16.0#



#74
 Fluoranthene
 Concen: 11.66 ng/ul
 RT: 19.26 min Scan# 2834
 Delta R.T. 0.02 min
 Lab File: BM005580.D
 Acq: 22 May 2016 09:04

Tgt Ion:202 Resp: 394098
 Ion Ratio Lower Upper
 202 100
 101 10.1 7.9 11.9
 100 7.3 5.6 8.4





#77

Pvrene

Concen: 10.44 ng/ul

RT: 19.62 min Scan# 2896

Delta R.T. 0.02 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

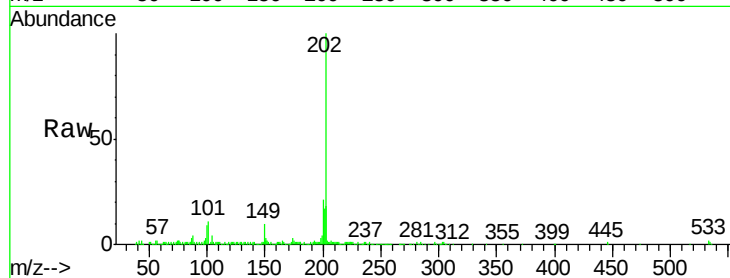
Tot Ion:202 Resp: 353439

Ion Ratio Lower Upper

202 100

101 11.5 9.6 14.4

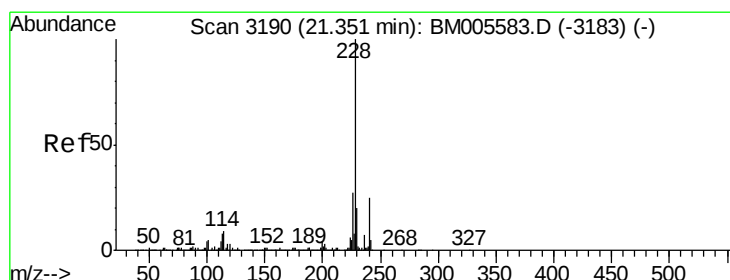
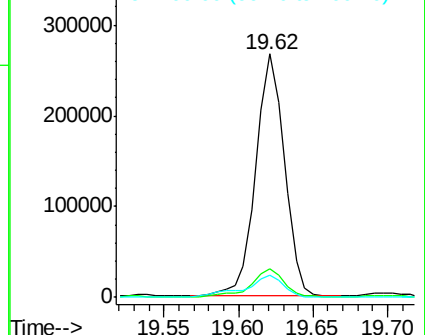
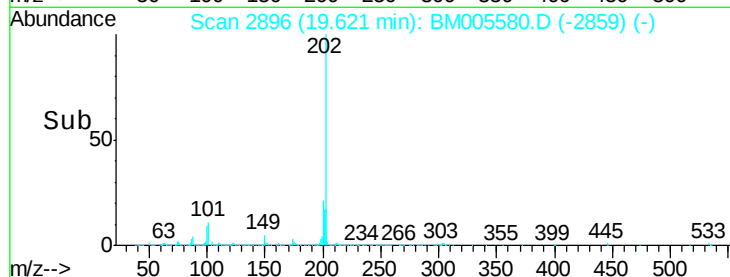
100 9.2 7.8 11.6



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: 6.18 ng/ul

RT: 21.36 min Scan# 3192

Delta R.T. 0.01 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

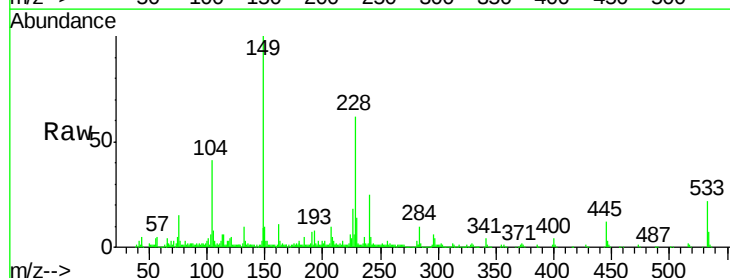
Tgt Ion:228 Resp: 214008

Ion Ratio Lower Upper

228 100

229 22.1 15.4 23.2

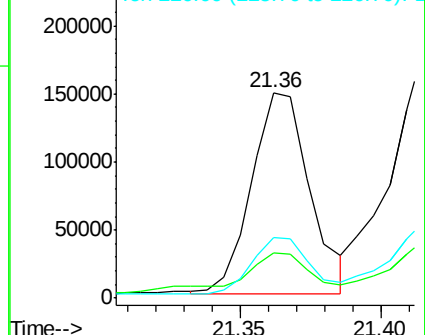
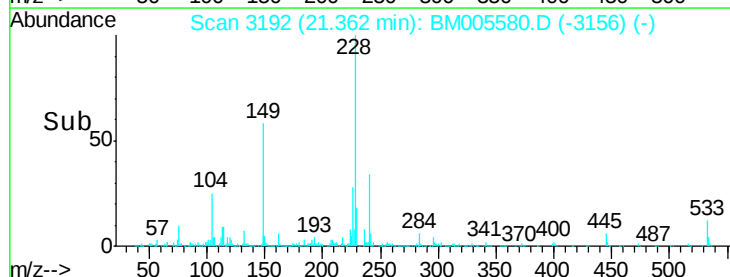
226 29.4 21.0 31.4

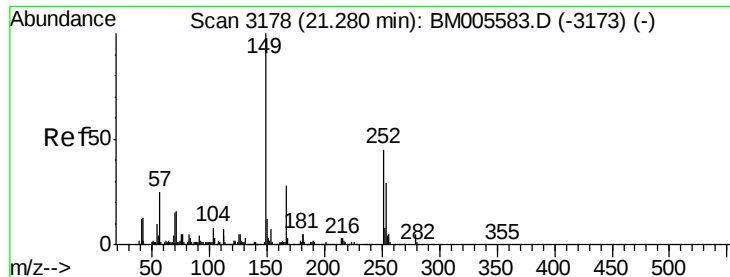


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 9.96 ng/ul

RT: 21.33 min Scan# 3187

Delta R.T. 0.05 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

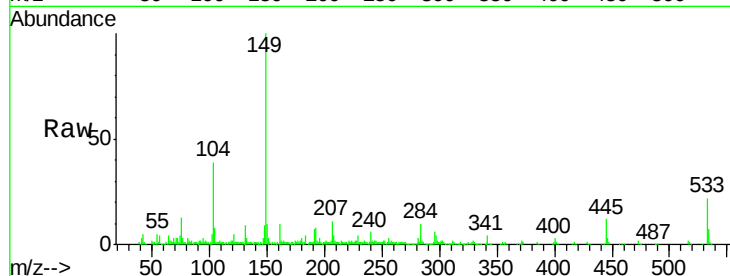
Tot Ion:149 Resp: 200682

Ion Ratio Lower Upper

149 100

167 0.7 22.0 33.0#

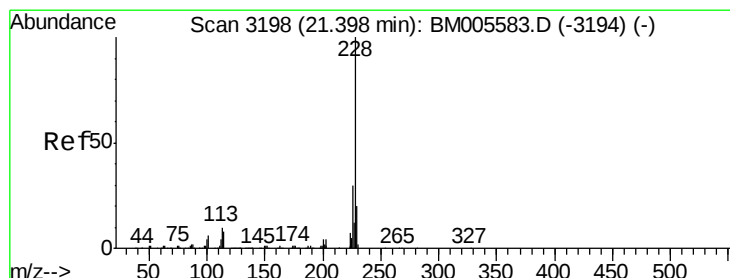
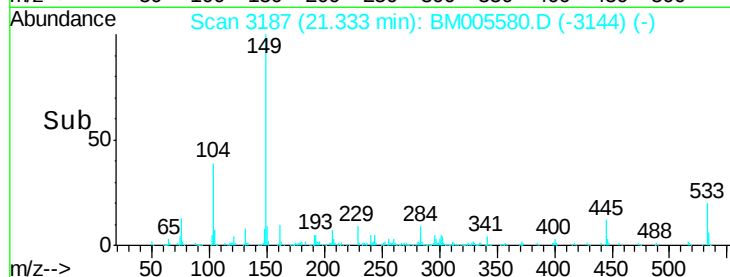
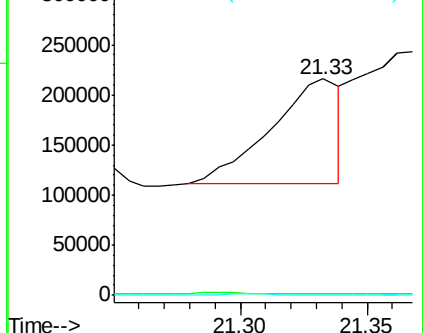
279 0.3 3.8 5.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 7.94 ng/ul

RT: 21.41 min Scan# 3201

Delta R.T. 0.02 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

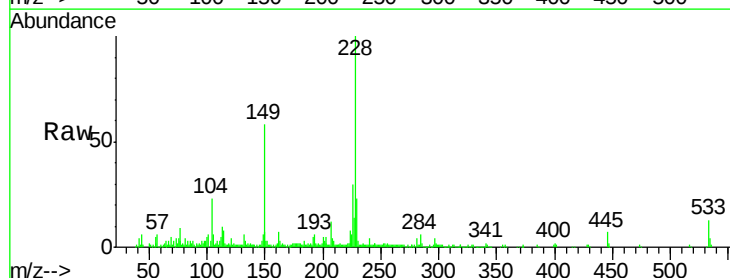
Tgt Ion:228 Resp: 261628

Ion Ratio Lower Upper

228 100

226 30.4 23.7 35.5

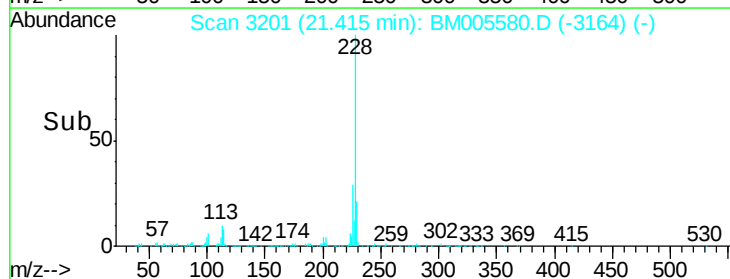
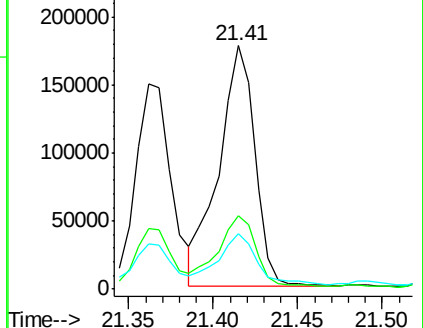
229 22.8 15.5 23.3

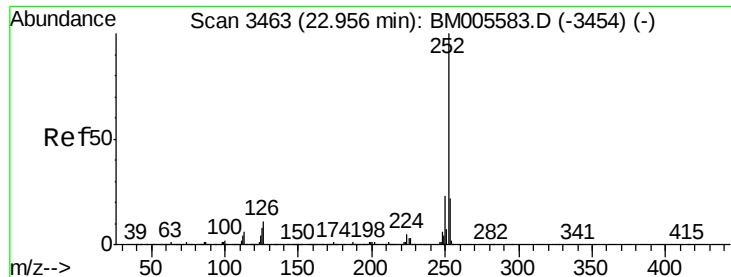


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

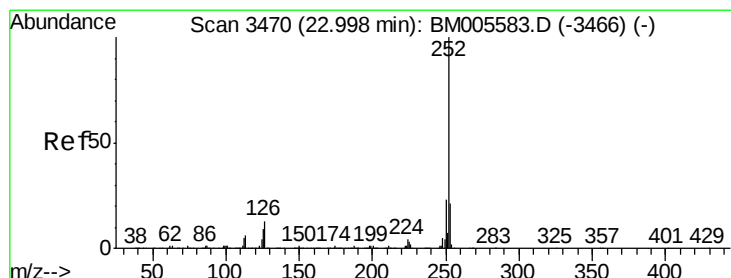
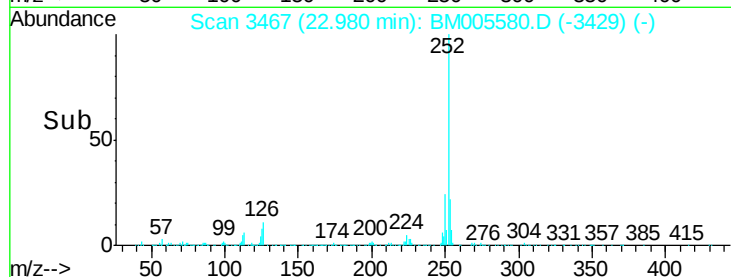
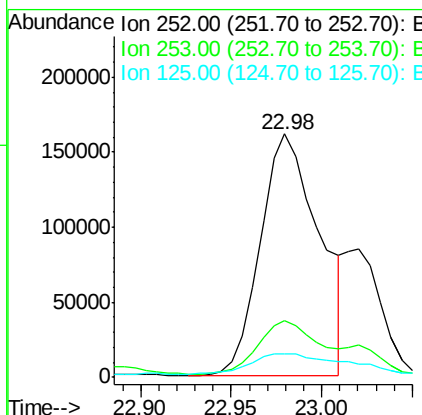
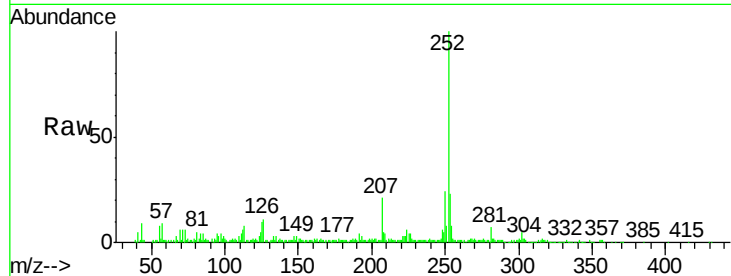




#85
Benzo(b)fluoranthene
Concen: 9.83 ng/ul
RT: 22.98 min Scan# 3467
Delta R.T. 0.02 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

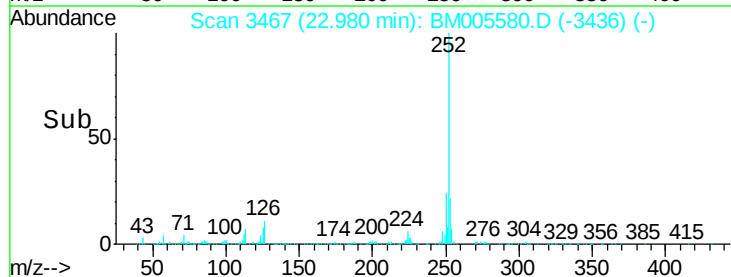
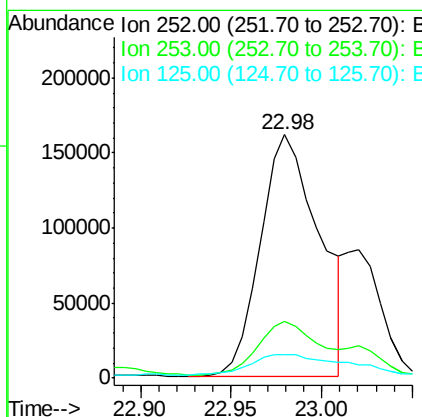
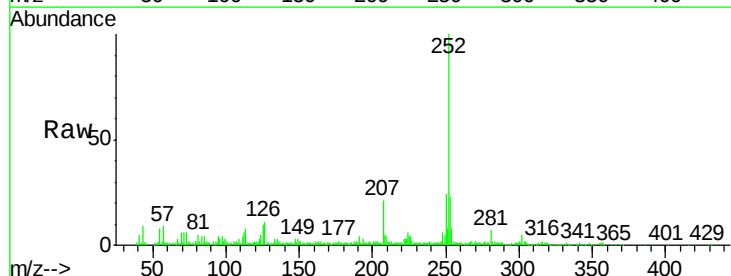
Instrument :
BNA_M
ClientSampled :

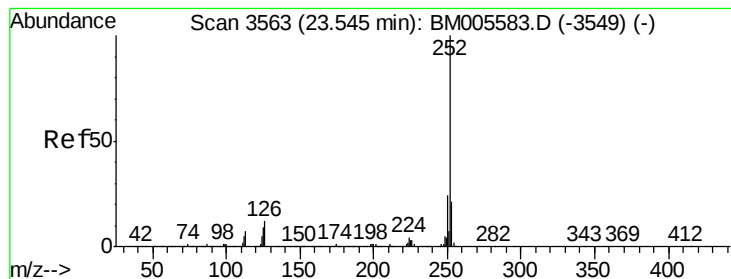
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	9.8	7.0	10.4



#86
Benzo(k)fluoranthene
Concen: 10.38 ng/ul
RT: 22.98 min Scan# 3467
Delta R.T. -0.02 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	9.8	7.0	10.6





#88

Benzo(a)pyrene

Concen: 6.12 ng/ul

RT: 23.57 min Scan# 3567

Delta R.T. 0.02 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

Instrument :

BNA_M

ClientSampleId :

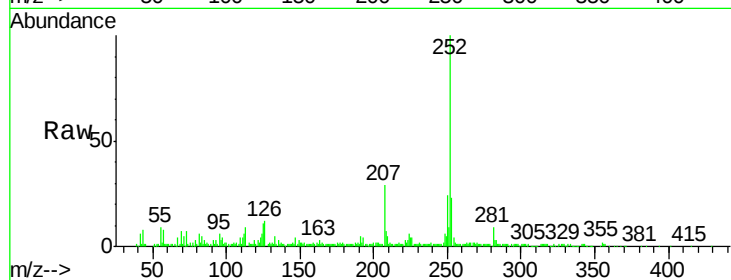
Tot Ion:252 Resp: 219708

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

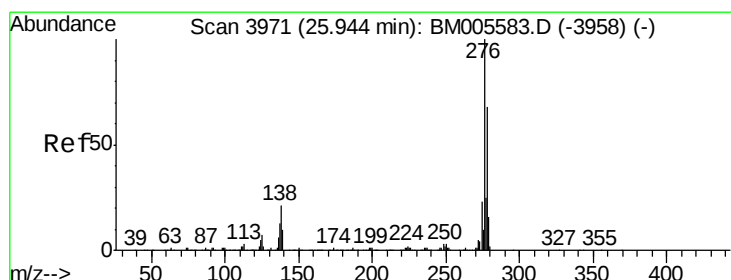
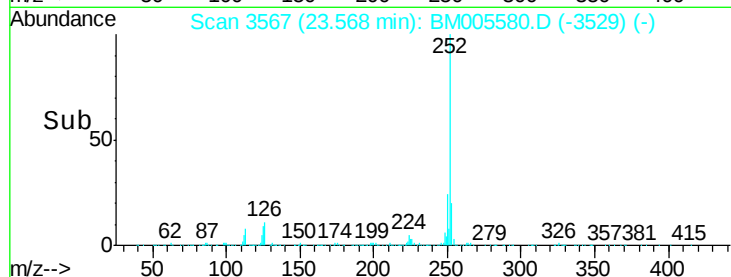
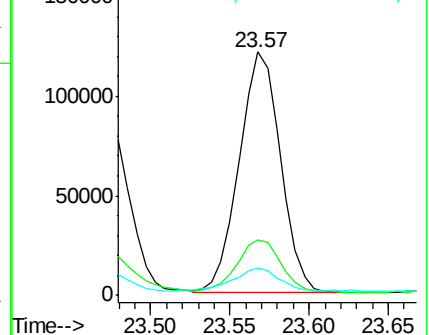
125 11.1 7.6 11.4



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: 3.98 ng/ul

RT: 25.99 min Scan# 3978

Delta R.T. 0.04 min

Lab File: BM005580.D

Acq: 22 May 2016 09:04

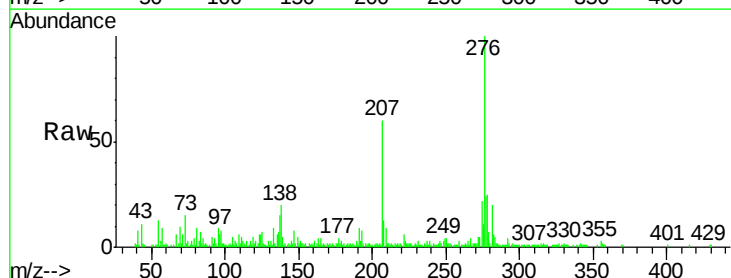
Tgt Ion:276 Resp: 169636

Ion Ratio Lower Upper

276 100

138 19.6 16.9 25.3

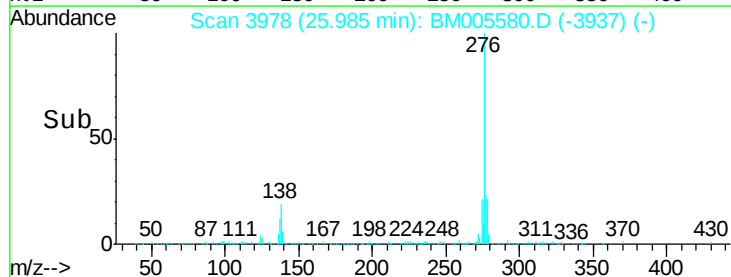
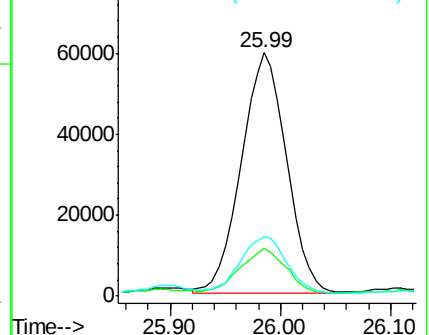
277 24.4 20.2 30.4

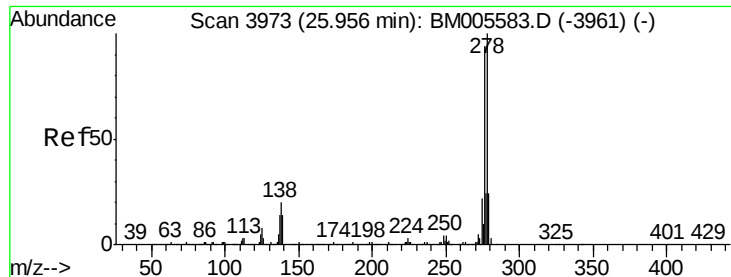


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

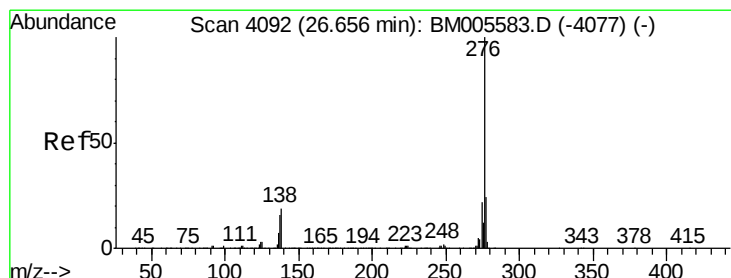
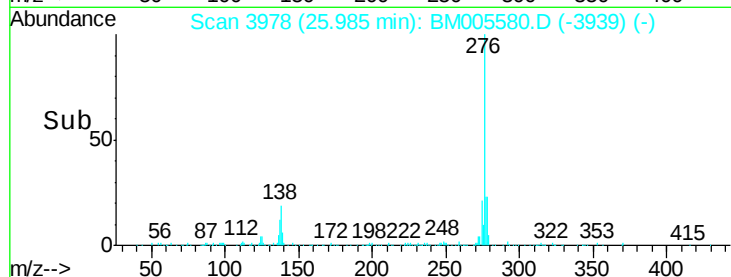
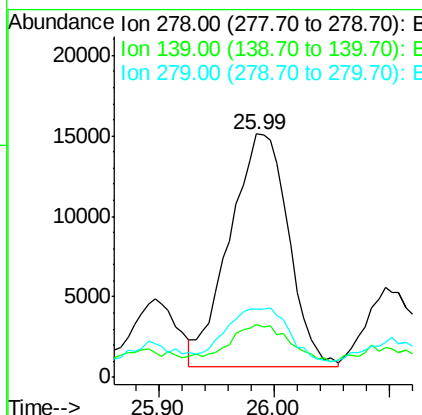
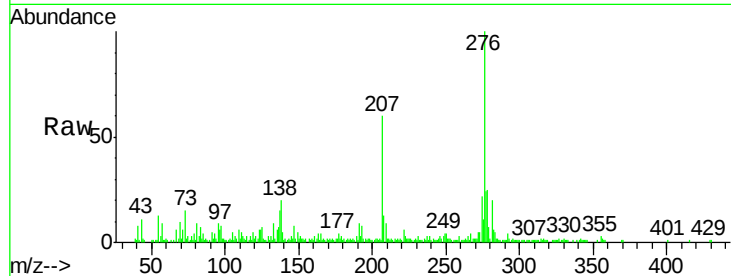




#90
Dibenzo(a,h)anthracene
Concen: 1.44 ng/ul
RT: 25.99 min Scan# 3978
Delta R.T. 0.03 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

Instrument :
BNA_M
ClientSampleId :

Tot Ion:278 Resp: 51251
Ion Ratio Lower Upper
278 100
139 21.7 11.8 17.6#
279 28.2 19.4 29.2



#91
Benzo(g,h,i)perylene
Concen: 4.15 ng/ul
RT: 26.70 min Scan# 4099
Delta R.T. 0.04 min
Lab File: BM005580.D
Acq: 22 May 2016 09:04

Tgt Ion:276 Resp: 148959
Ion Ratio Lower Upper
276 100
138 20.5 15.0 22.6
277 24.8 18.6 28.0

