

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
 Data File : BM007405.D
 Acq On : 03 Sep 2016 13:46
 Operator : UM/SJ
 Sample : H4639-10
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BD387

Quant Time: Sep 05 01:46:28 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Sep 05 01:45:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	223634	20.00	ng/ul	0.00
18) Naphthalene-d8	10.58	136	1043442	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.43	164	691873	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.17	188	1724441	20.00	ng/ul	0.00
75) Chrysene-d12	21.36	240	2001814	20.00	ng/ul	0.00
83) Perylene-d12	23.64	264	1764485	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	12486	2.85	ng/uL	0.00
5) Phenol-d5	6.96	99	343621	16.27	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.13	67	187365	16.88	ng/ul	0.00
9) 2-Chlorophenol-d4	7.33	132	267932	17.16	ng/ul	0.00
13) 4-Methylphenol-d8	8.49	113	291046	15.80	ng/ul	0.00
19) Nitrobenzene-d5	8.95	128	143829	18.78	ng/ul	0.00
22) 2-Nitrophenol-d4	9.67	143	171312	19.15	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.20	165	321344	18.04	ng/ul	0.00
29) 4-Chloroaniline-d4	10.72	131	81792	3.68	ng/ul	0.00
43) Dimethylphthalate-d6	13.83	166	1134279	19.00	ng/ul	0.00
46) Acenaphthylene-d8	14.12	160	1364695	19.72	ng/ul	0.00
51) 4-Nitrophenol-d4	14.63	143	131827	11.70	ng/ul	0.00
57) Fluorene-d10	15.42	176	1027744	19.91	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.54	200	184272	16.99	ng/ul	0.00
70) Anthracene-d10	17.27	188	1678131	20.83	ng/ul	0.00
76) Pyrene-d10	19.56	212	1993053	23.81	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.49	264	1632097	20.08	ng/ul	0.02

Target Compounds

						Qvalue
4) Benzaldehyde	6.95	77	17049	1.42	ng/ul	87
14) Acetophenone	8.61	105	35792	1.27	ng/ul#	92
28) Naphthalene	10.63	128	288505	5.56	ng/ul	99
30) 4-Chloroaniline	10.63	127	37791	1.65	ng/ul#	1
34) 2-Methylnaphthalene	12.24	142	221367	5.21	ng/ul	99
40) 1,1'-Biphenyl	13.26	154	74091	1.38	ng/ul	97
44) Dimethylphthalate	13.88	163	489713	8.24	ng/ul	99
47) Acenaphthylene	14.14	152	291070	4.09	ng/ul	99
53) Dibenzofuran	14.82	168	423394	6.11	ng/ul	96
69) Phenanthrene	17.22	178	1605819	17.35	ng/ul	100
71) Anthracene	17.30	178	953237	9.97	ng/ul	100
72) Carbazole	17.57	167	316166	3.81	ng/ul	98
74) Fluoranthene	19.23	202	3991925	34.36	ng/ul	97
77) Pyrene	19.60	202	3496963	32.56	ng/ul	96
80) Benzo(a)anthracene	21.34	228	2361994	20.02	ng/ul	94
81) Bis(2-ethylhexyl)phthalate	21.26	149	114377	1.76	ng/ul#	95
82) Chrysene	21.40	228	1953538	18.28	ng/ul	95
85) Benzo(b)fluoranthene	22.96	252	6946456	66.58	ng/ul	98
86) Benzo(k)fluoranthene	22.96	252	6946456	72.04	ng/ul	100
88) Benzo(a)pyrene	23.54	252	1400826	14.03	ng/ul	99
89) Indeno(1,2,3-cd)pyrene	25.93	276	1463757	11.95	ng/ul	96
90) Dibenzo(a,h)anthracene	25.93	278	522101	5.12	ng/ul#	91
91) Benzo(g,h,i)perylene	26.63	276	1145377	11.01	ng/ul	98

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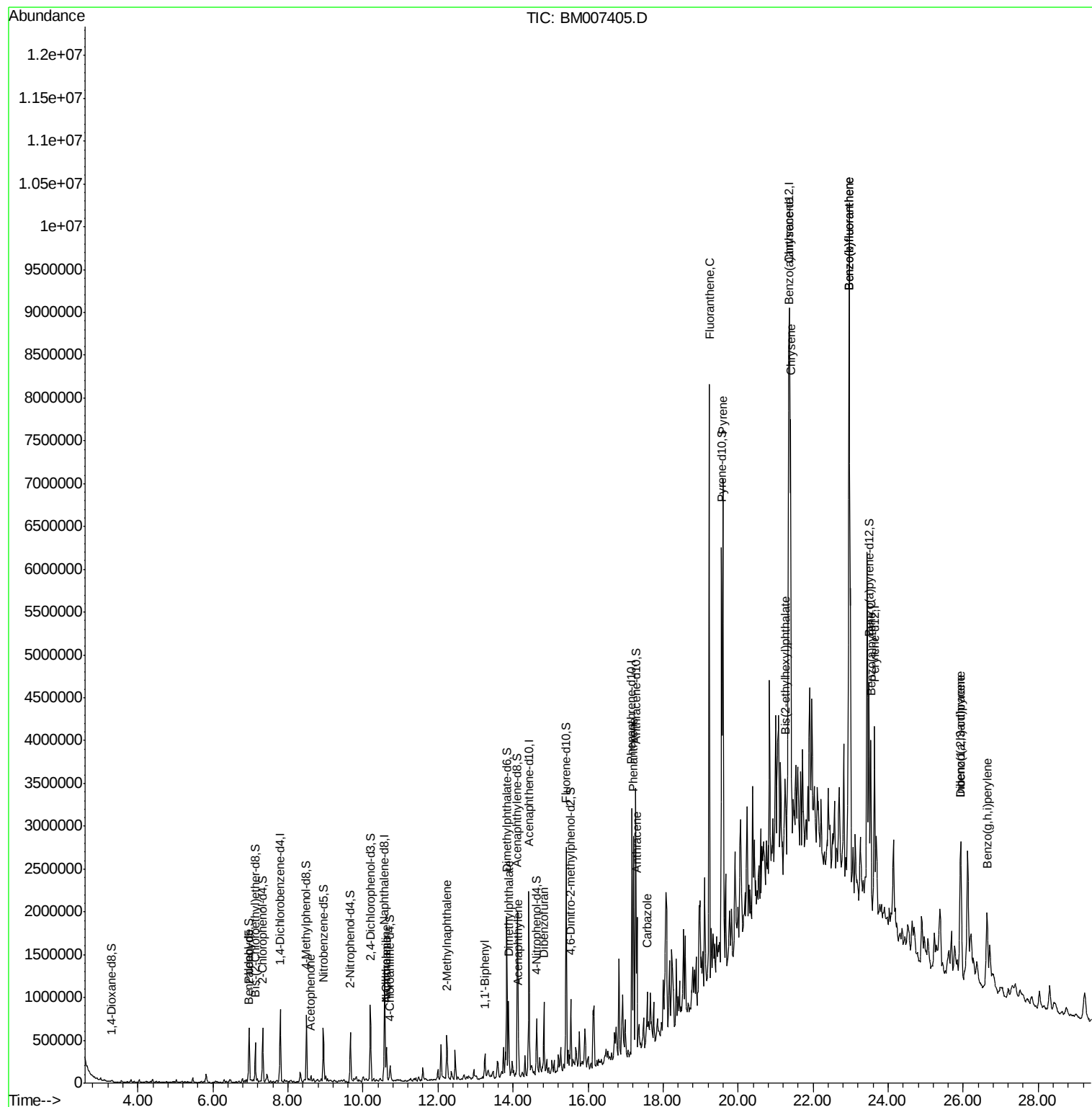
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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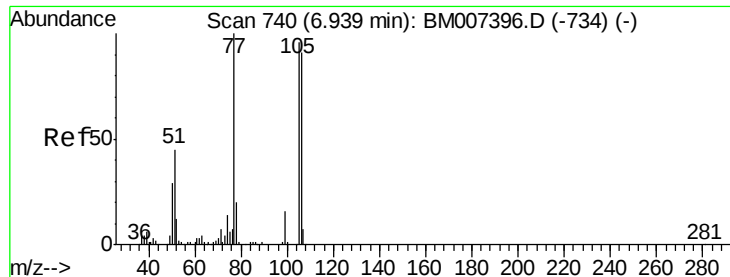
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.42 ng/ul

RT: 6.95 min Scan# 741

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

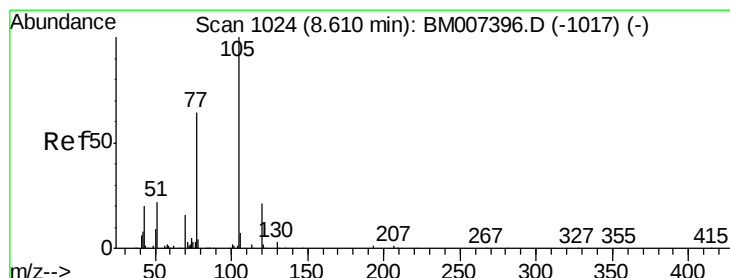
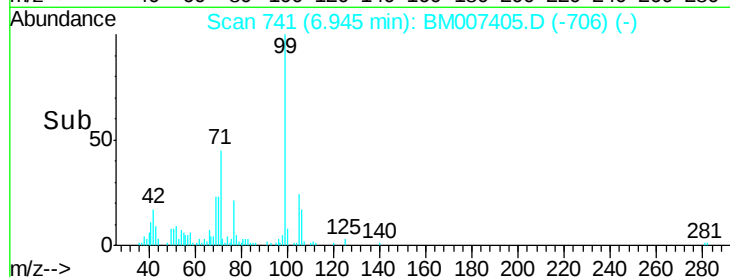
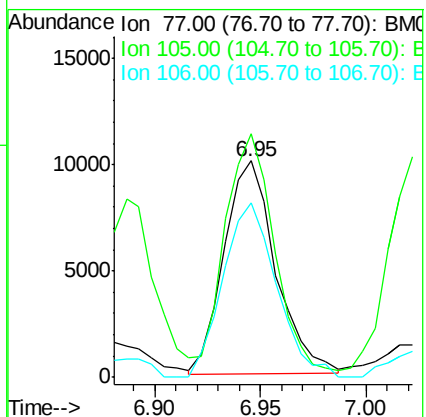
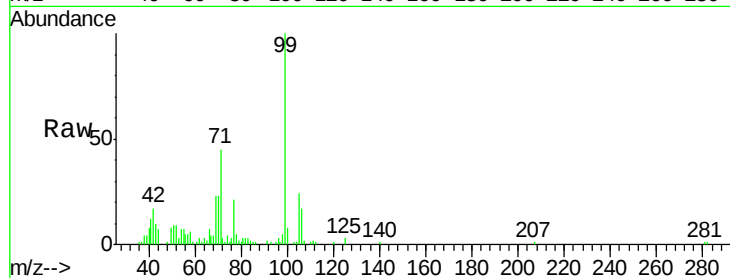
Tgt Ion: 77 Resp: 17049

Ion Ratio Lower Upper

77 100

105 112.5 76.9 115.3

106 80.5 71.8 107.8



#14

Acetophenone

Concen: 1.27 ng/ul

RT: 8.61 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

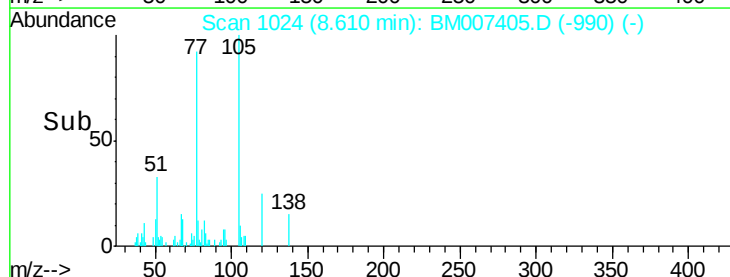
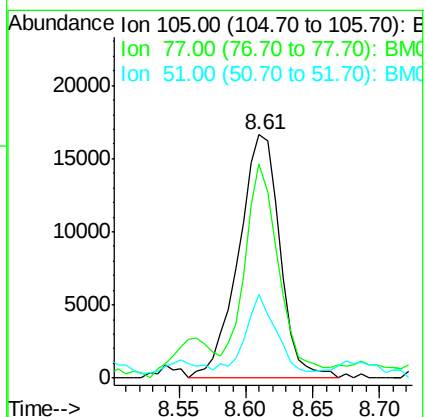
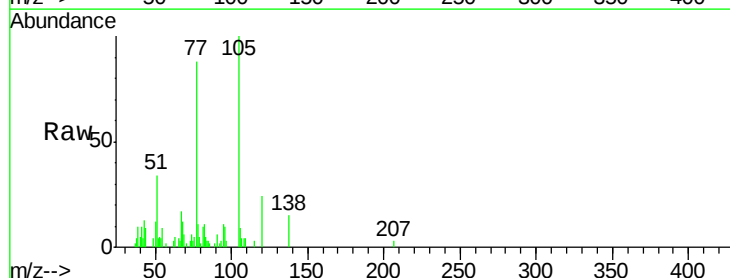
Tgt Ion: 105 Resp: 35792

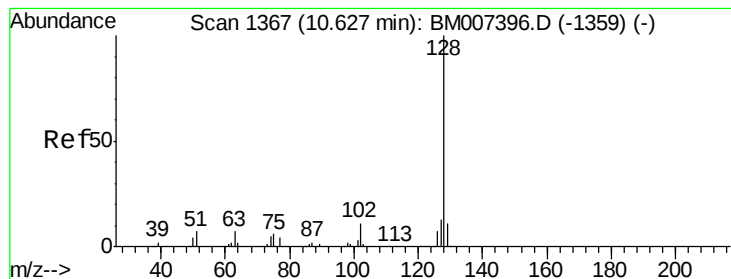
Ion Ratio Lower Upper

105 100

77 87.9 65.9 98.9

51 34.1 22.2 33.2#





#28

Naphthalene

Concen: 5.56 ng/ul

RT: 10.63 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

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ClientSampleId :

BD387

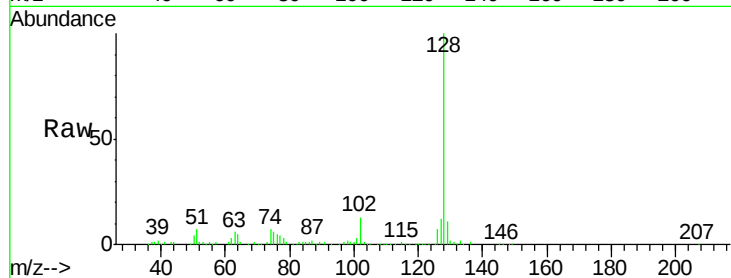
Tgt Ion:128 Resp: 288505

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

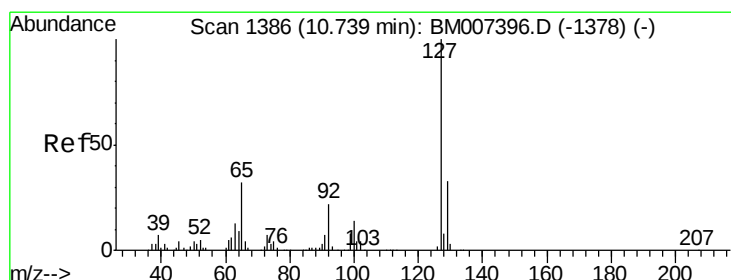
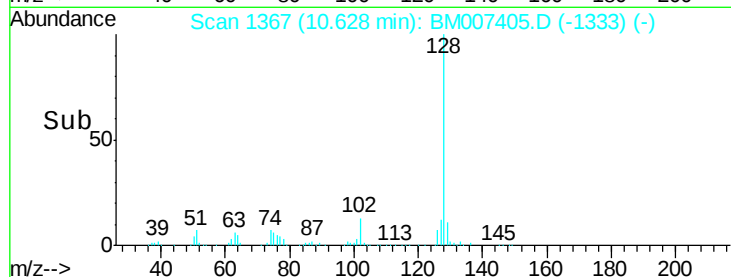
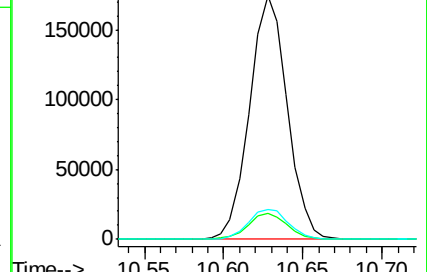
127 12.4 10.6 15.8



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: 1.65 ng/ul

RT: 10.63 min Scan# 1367

Delta R.T. -0.11 min

Lab File: BM007405.D

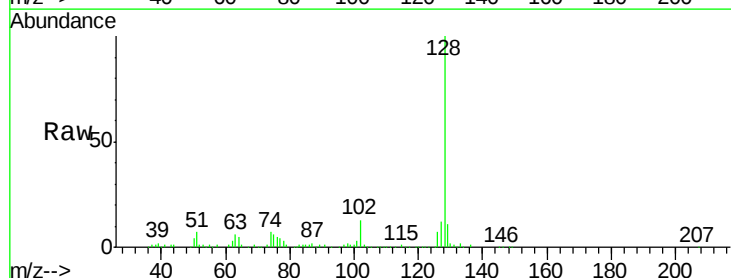
Acq: 03 Sep 2016 13:46

Tgt Ion:127 Resp: 37791

Ion Ratio Lower Upper

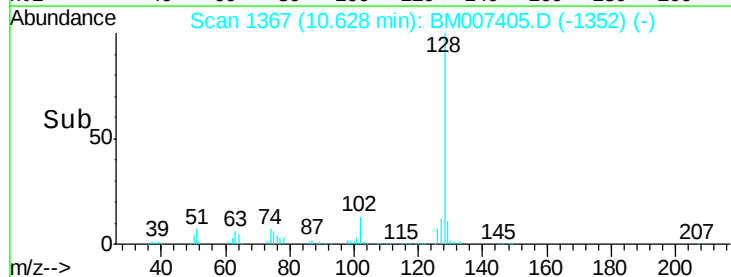
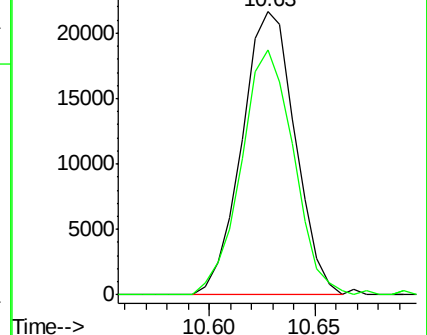
127 100

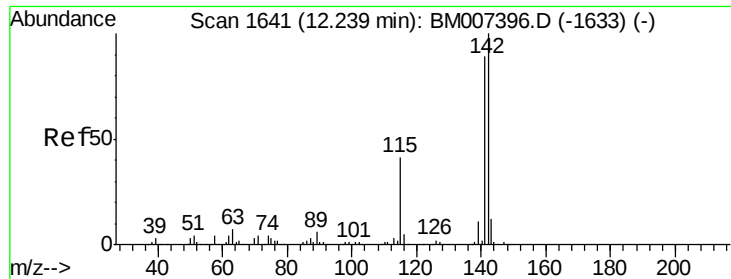
129 86.7 24.6 37.0#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

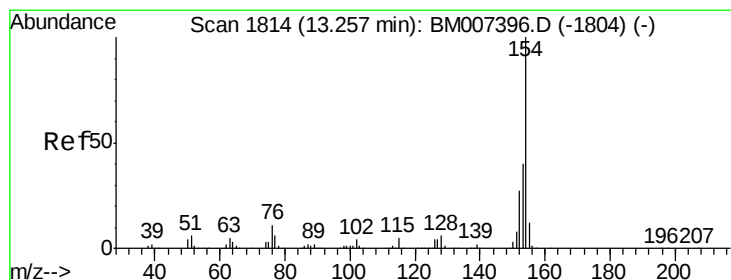
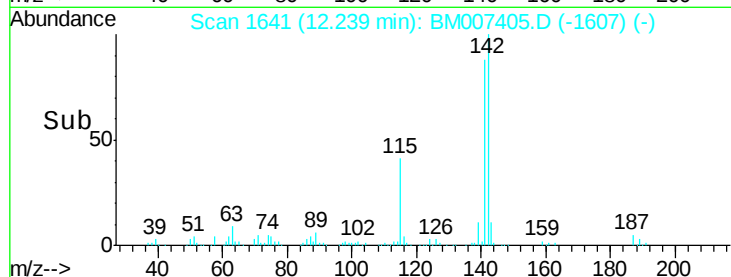
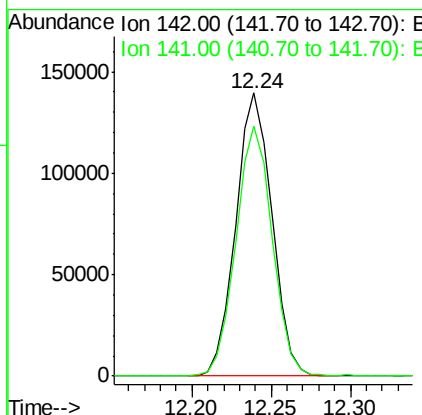
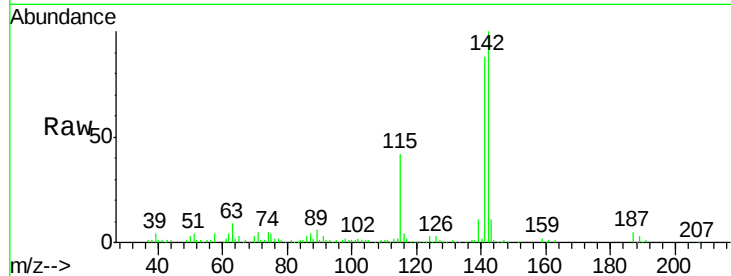




#34
 2-Methylnaphthalene
 Concen: 5.21 ng/ul
 RT: 12.24 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BM007405.D
 Acq: 03 Sep 2016 13:46

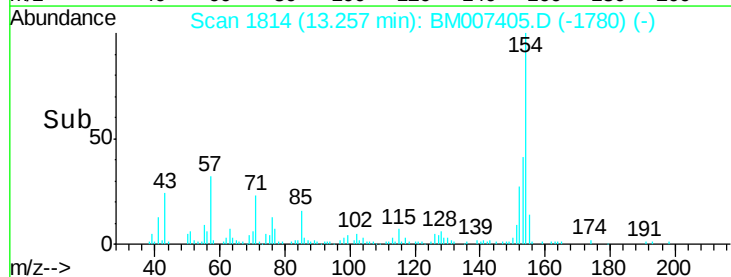
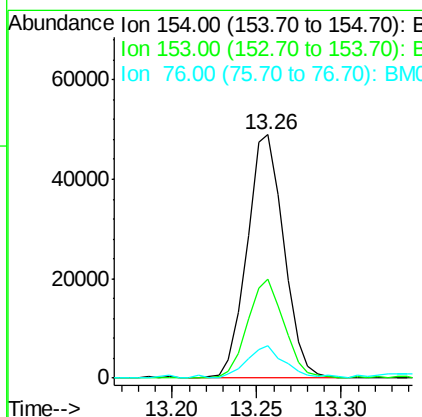
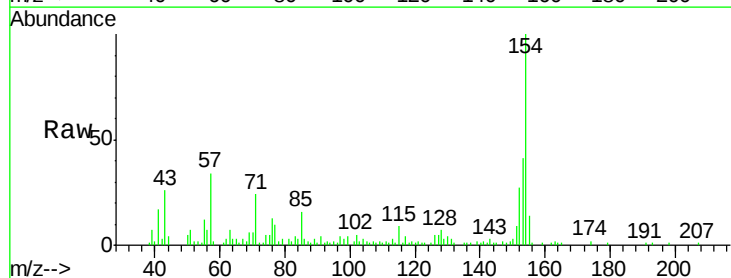
Instrument :
 BNA_M
 ClientSampleId :
 BD387

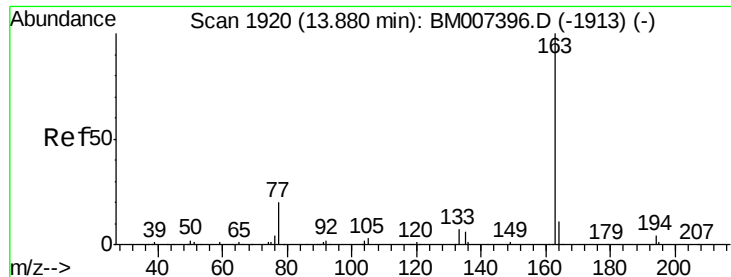
Tgt Ion:142 Resp: 221367
 Ion Ratio Lower Upper
 142 100
 141 88.5 71.3 106.9



#40
 1,1'-Biphenyl
 Concen: 1.38 ng/ul
 RT: 13.26 min Scan# 1814
 Delta R.T. 0.00 min
 Lab File: BM007405.D
 Acq: 03 Sep 2016 13:46

Tgt Ion:154 Resp: 74091
 Ion Ratio Lower Upper
 154 100
 153 40.9 31.3 46.9
 76 13.3 10.0 15.0





#44

Dimethylphthalate

Concen: 8.24 ng/ul

RT: 13.88 min Scan# 1920

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

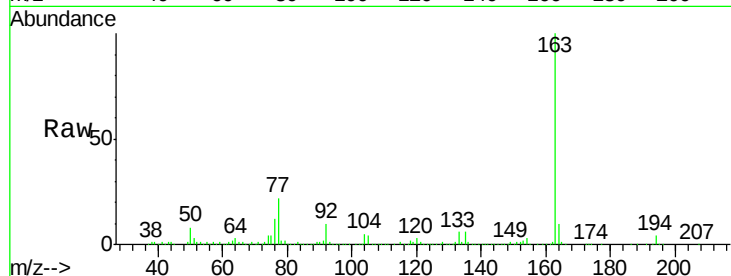
Tgt Ion:163 Resp: 489713

Ion Ratio Lower Upper

163 100

194 4.4 3.4 5.2

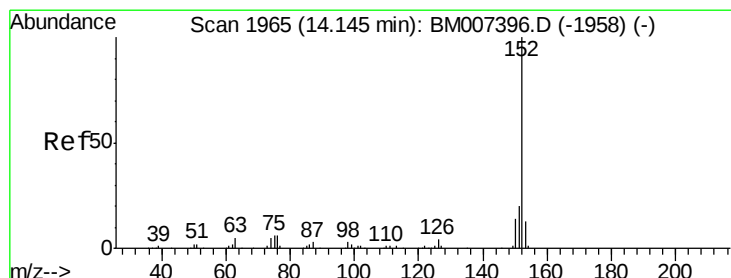
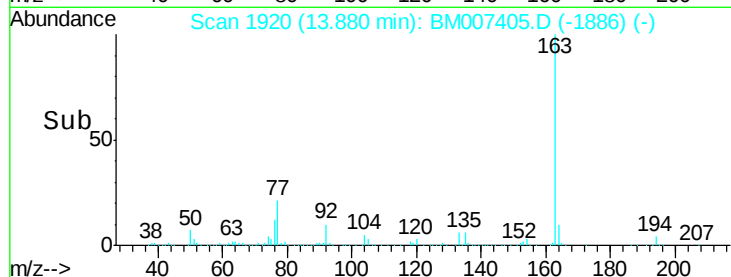
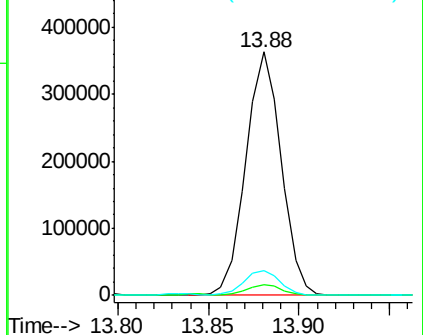
164 10.2 7.8 11.8



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: 4.09 ng/ul

RT: 14.14 min Scan# 1965

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

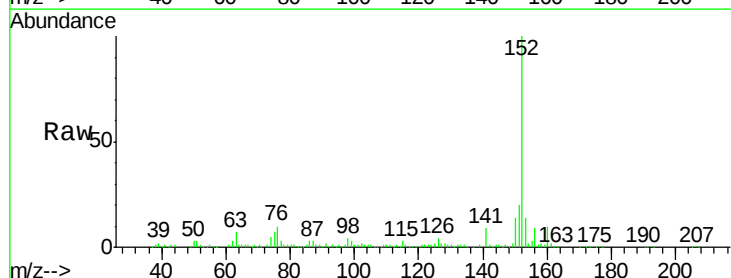
Tgt Ion:152 Resp: 291070

Ion Ratio Lower Upper

152 100

151 20.0 16.0 24.0

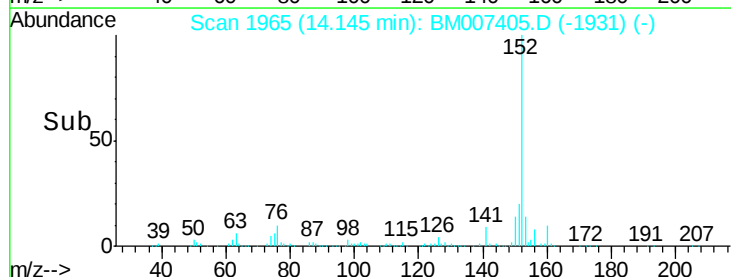
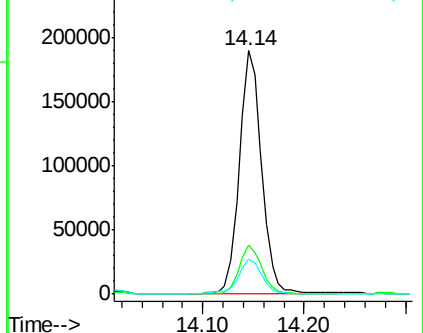
153 14.3 11.0 16.6

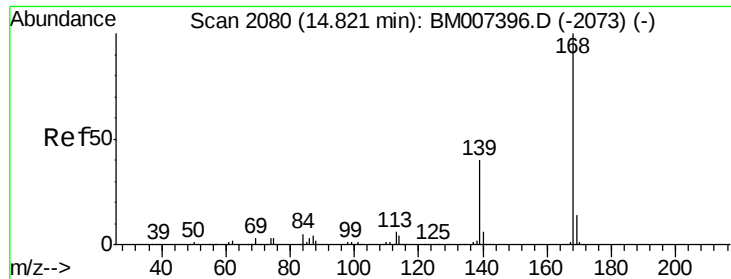


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#53

Dibenzenofuran

Concen: 6.11 ng/ul

RT: 14.82 min Scan# 2080

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

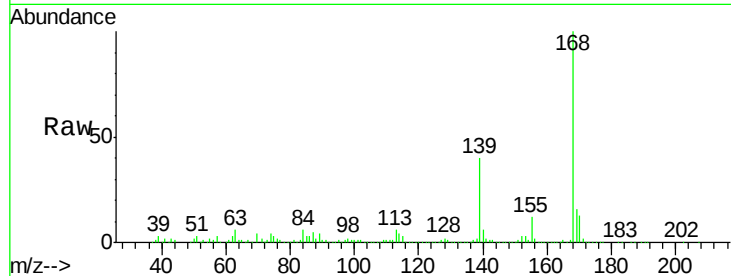
BD387

Tgt Ion:168 Resp: 423394

Ion Ratio Lower Upper

168 100

139 40.1 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.82

300000

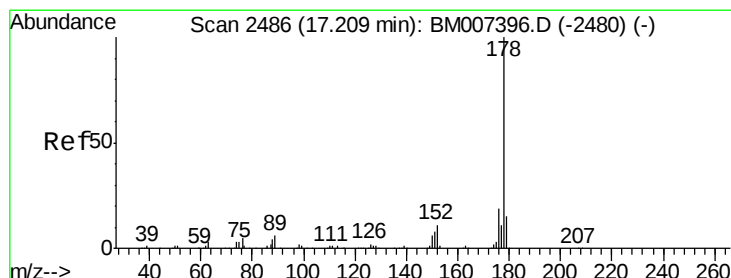
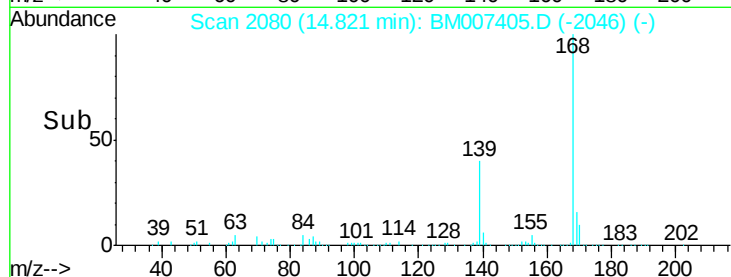
200000

100000

0

Time-->

14.75 14.80 14.85



#69

Phenanthrene

Concen: 17.35 ng/ul

RT: 17.22 min Scan# 2487

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

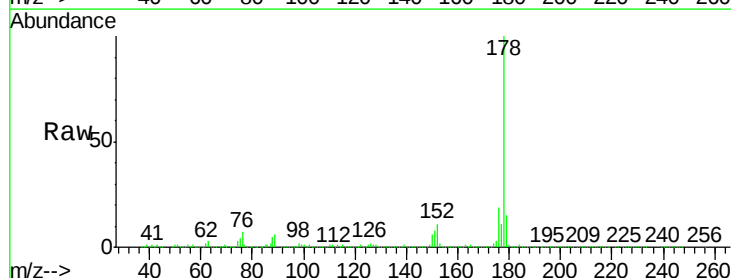
Tgt Ion:178 Resp: 1605819

Ion Ratio Lower Upper

178 100

179 15.3 12.2 18.2

176 19.1 15.1 22.7



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

17.22

1500000

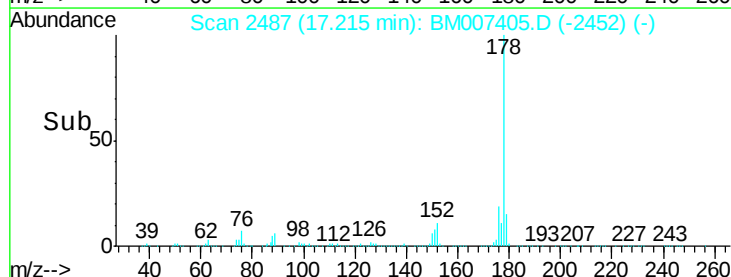
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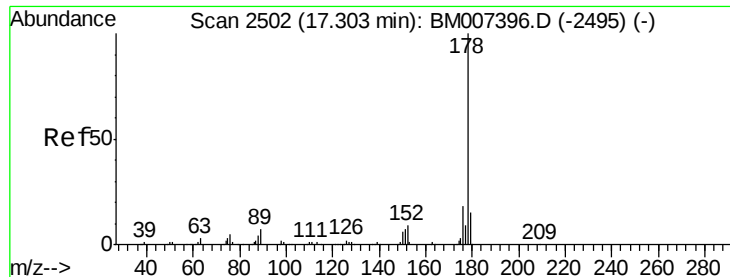
500000

0

Time-->

17.10 17.20

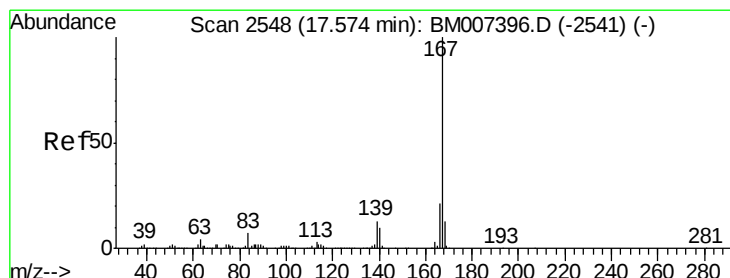
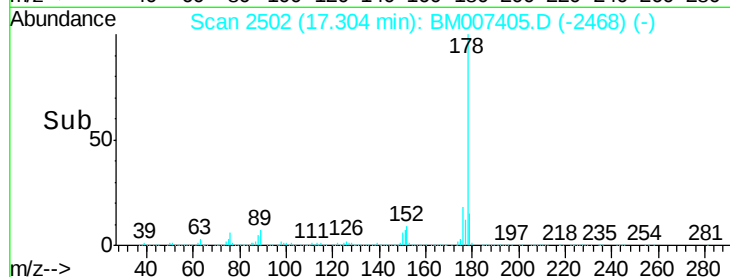
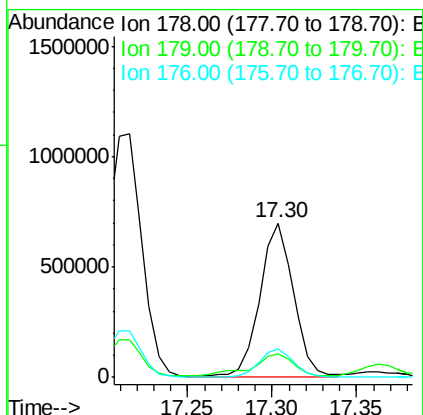
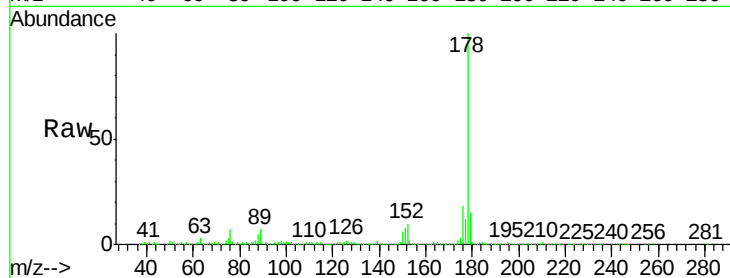




#71
 Anthracene
 Concen: 9.97 ng/ul
 RT: 17.30 min Scan# 2502
 Delta R.T. 0.00 min
 Lab File: BM007405.D
 Acq: 03 Sep 2016 13:46

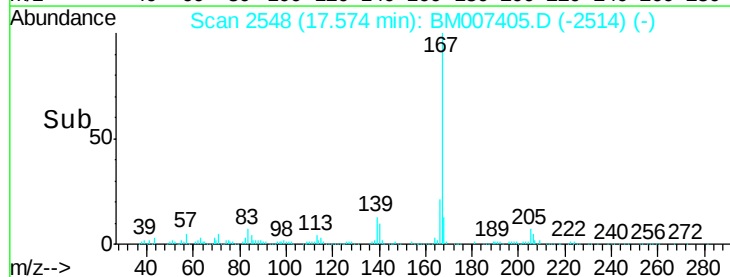
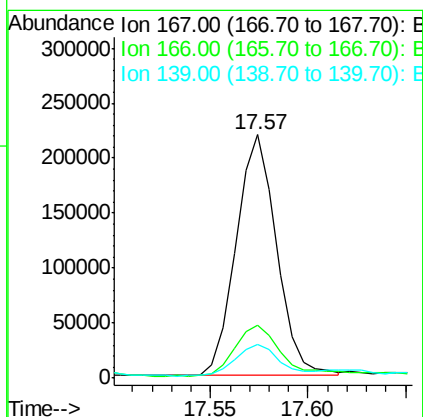
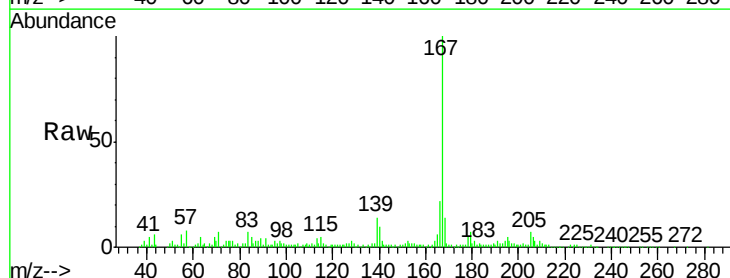
Instrument :
 BNA_M
 ClientSampled :
 BD387

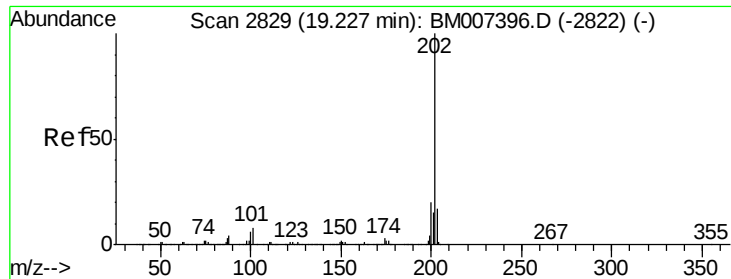
Tgt Ion:178 Resp: 953237
 Ion Ratio Lower Upper
 178 100
 179 15.4 12.1 18.1
 176 18.2 14.5 21.7



#72
 Carbazole
 Concen: 3.81 ng/ul
 RT: 17.57 min Scan# 2548
 Delta R.T. 0.00 min
 Lab File: BM007405.D
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Tgt Ion:167 Resp: 316166
 Ion Ratio Lower Upper
 167 100
 166 21.7 16.6 25.0
 139 13.7 10.2 15.4





#74

Fluoranthene

Concen: 34.36 ng/ul

RT: 19.23 min Scan# 2830

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

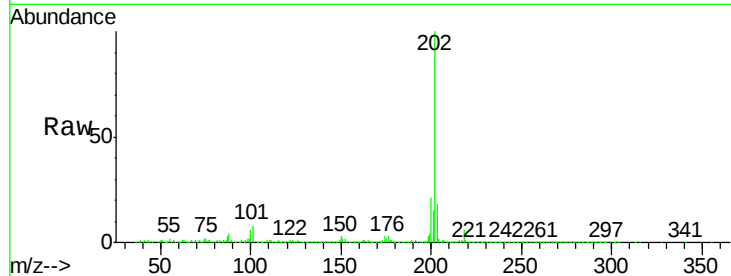
Tgt Ion:202 Resp: 3991925

Ion Ratio Lower Upper

202 100

101 7.7 6.9 10.3

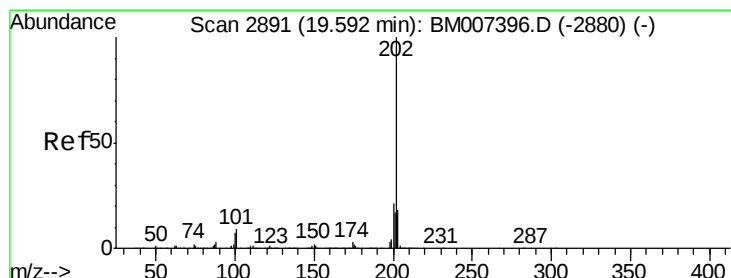
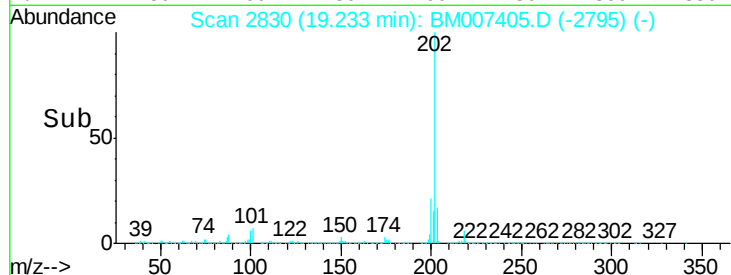
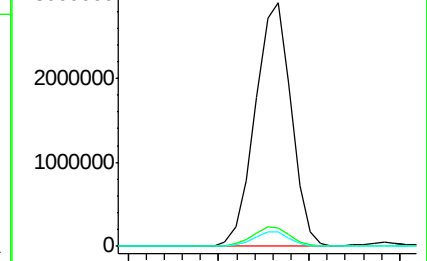
100 5.8 5.4 8.0



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: 32.56 ng/ul

RT: 19.60 min Scan# 2892

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

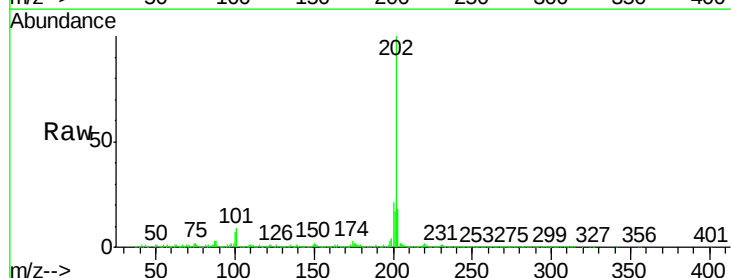
Tgt Ion:202 Resp: 3496963

Ion Ratio Lower Upper

202 100

101 9.0 8.4 12.6

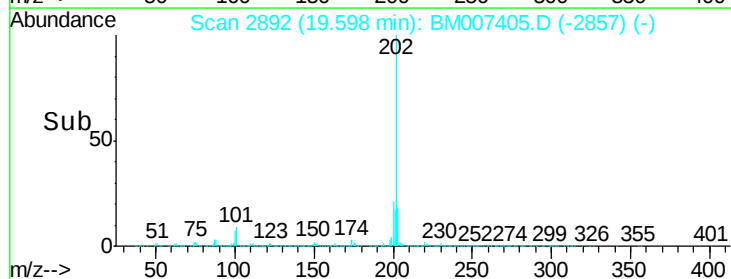
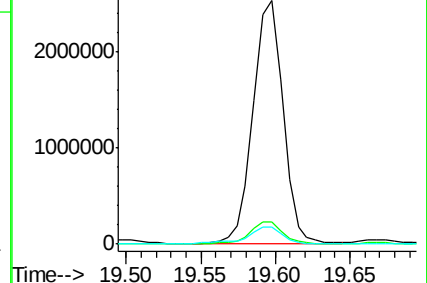
100 7.1 6.9 10.3

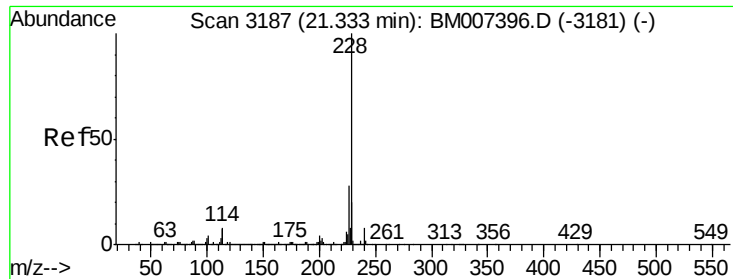


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Benzo(a)anthracene

Concen: 20.02 ng/ul

RT: 21.34 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

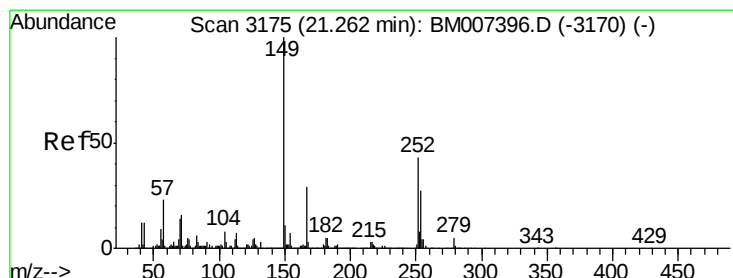
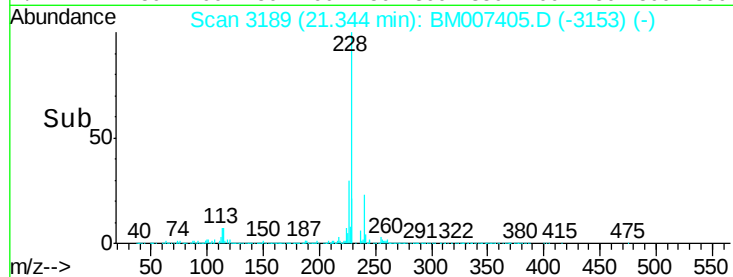
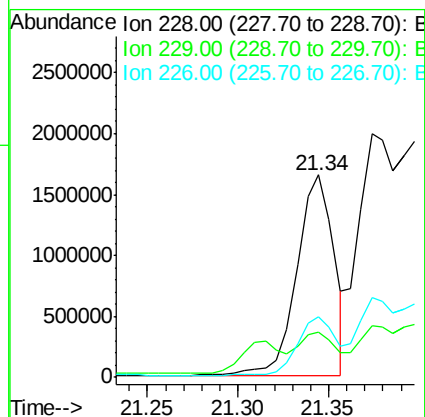
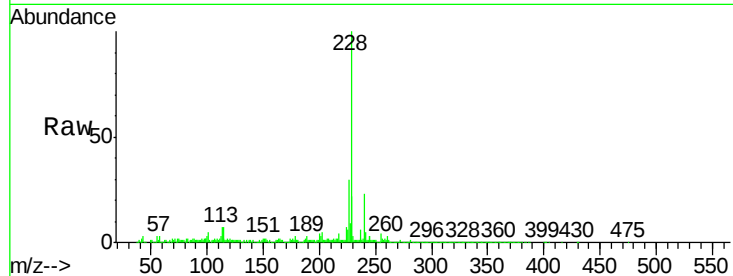
Tgt Ion:228 Resp: 2361994

Ion Ratio Lower Upper

228 100

229 22.3 15.6 23.4

226 30.2 21.8 32.8



#81

Bis(2-ethylhexyl)phthalate

Concen: 1.76 ng/ul

RT: 21.26 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

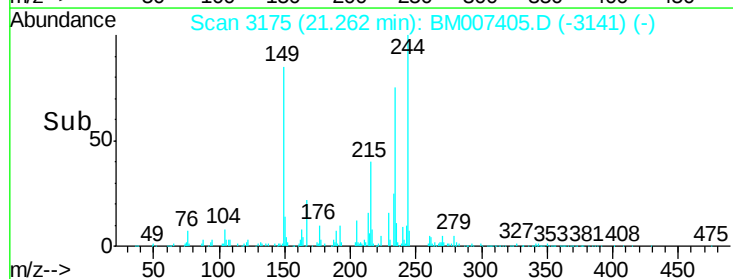
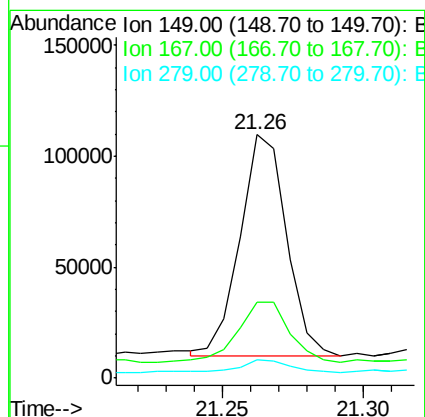
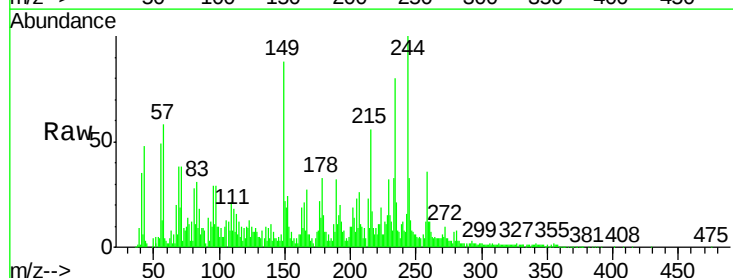
Tgt Ion:149 Resp: 114377

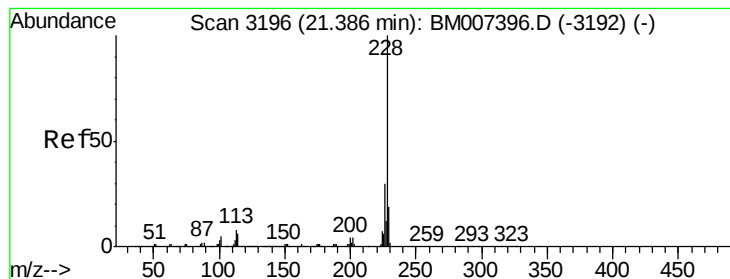
Ion Ratio Lower Upper

149 100

167 31.2 23.2 34.8

279 7.6 4.1 6.1#





#82

Chrysene

Concen: 18.28 ng/ul

RT: 21.40 min Scan# 3198

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

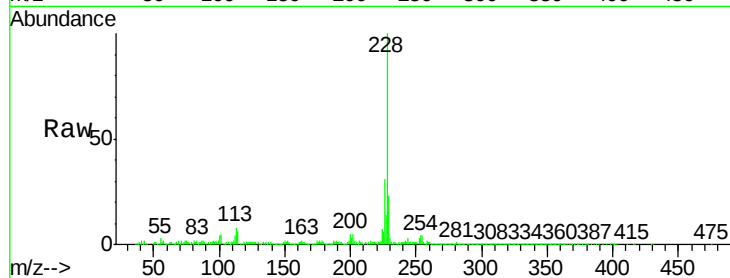
Tgt Ion:228 Resp: 1953538

Ion Ratio Lower Upper

228 100

226 31.2 23.4 35.2

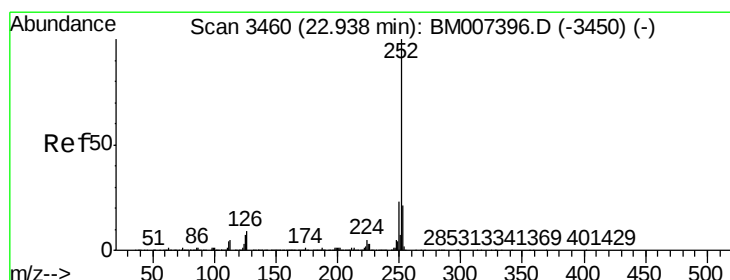
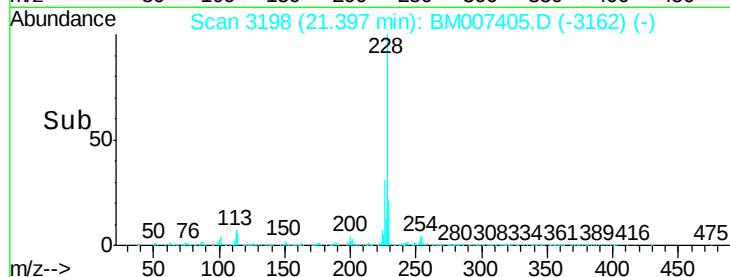
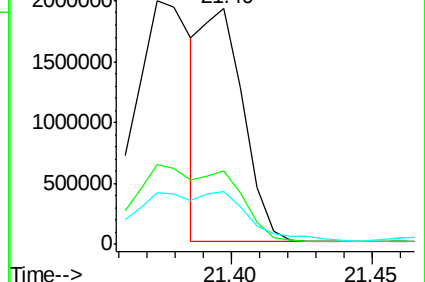
229 22.6 15.5 23.3



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: 66.58 ng/ul

RT: 22.96 min Scan# 3464

Delta R.T. 0.02 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

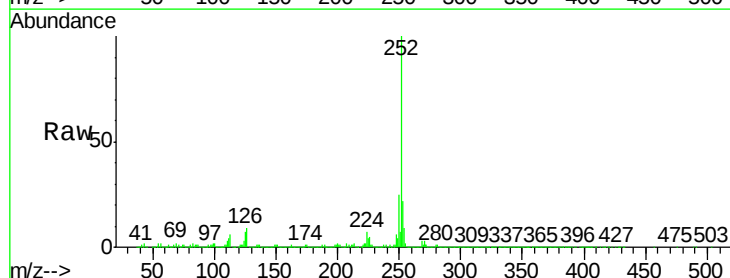
Tgt Ion:252 Resp: 6946456

Ion Ratio Lower Upper

252 100

253 22.2 17.1 25.7

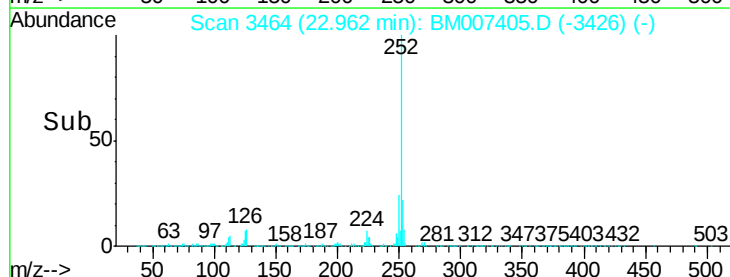
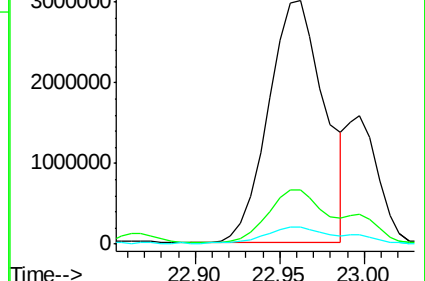
125 7.0 5.8 8.8

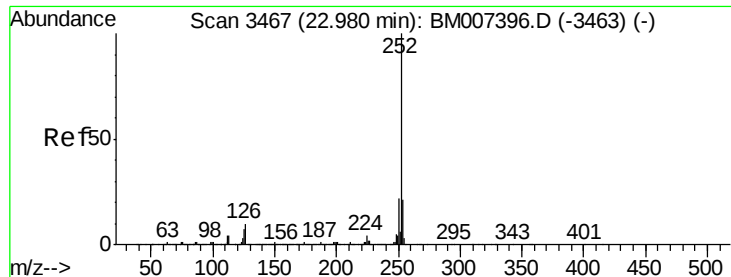


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#86

Benzo(k)fluoranthene

Concen: 72.04 ng/u1

RT: 22.96 min Scan# 3464

Delta R.T. -0.02 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

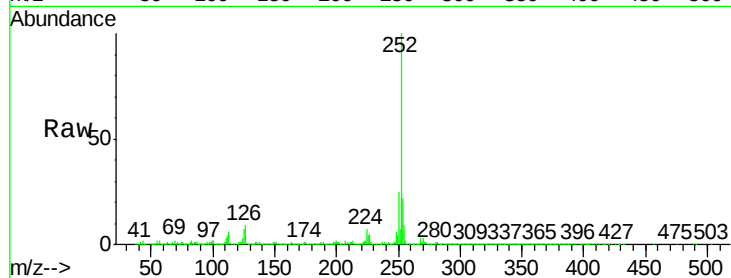
Tgt Ion:252 Resp: 6946456

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

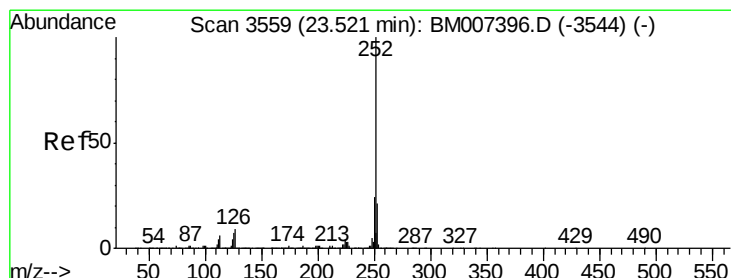
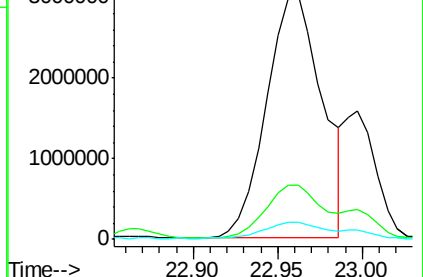
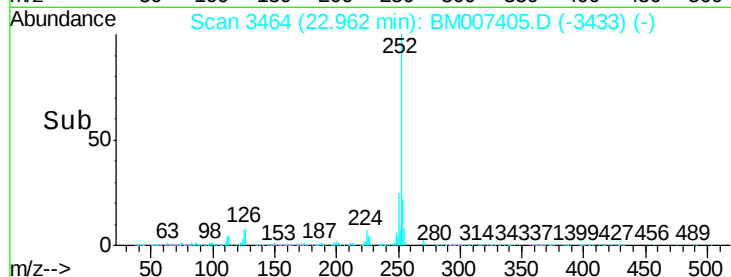
125 7.0 5.7 8.5



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



#88

Benzo(a)pyrene

Concen: 14.03 ng/u1

RT: 23.54 min Scan# 3562

Delta R.T. 0.02 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

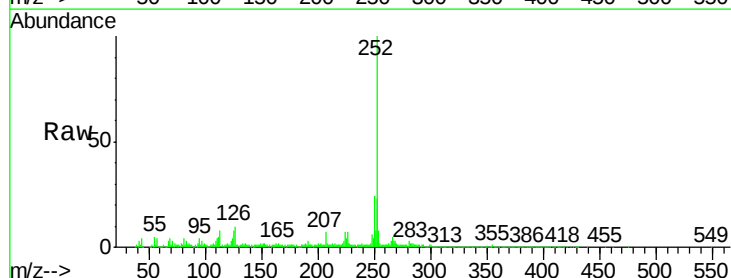
Tgt Ion:252 Resp: 1400826

Ion Ratio Lower Upper

252 100

253 23.0 17.7 26.5

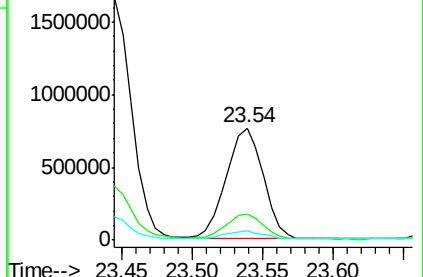
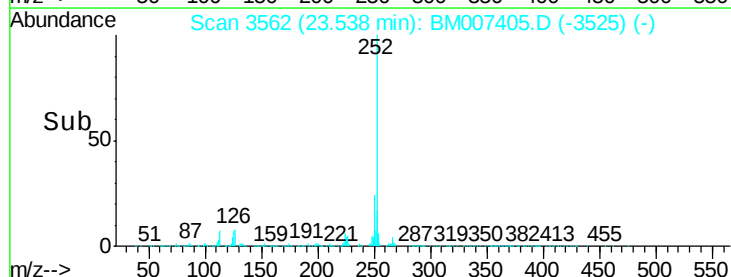
125 8.3 6.6 9.8

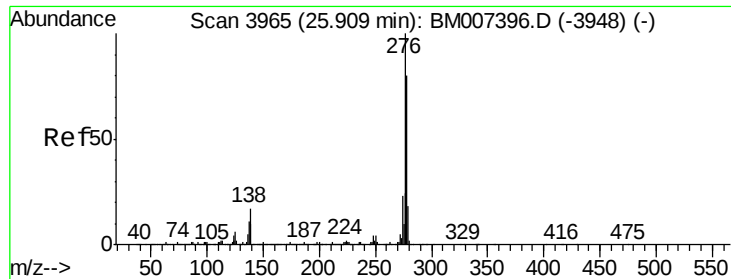


Abundance Ion 252.00 (251.70 to 252.70): E

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: 11.95 ng/ul

RT: 25.93 min Scan# 3969

Delta R.T. 0.02 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

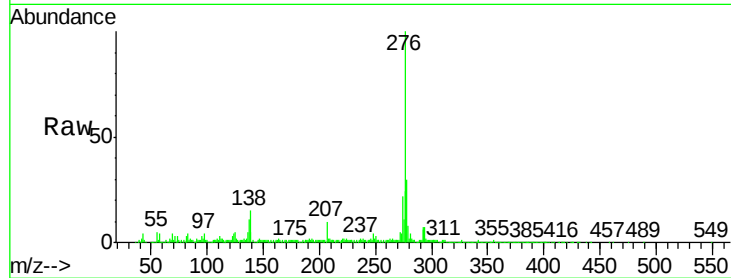
Tgt Ion:276 Resp: 1463757

Ion Ratio Lower Upper

276 100

138 14.7 13.9 20.9

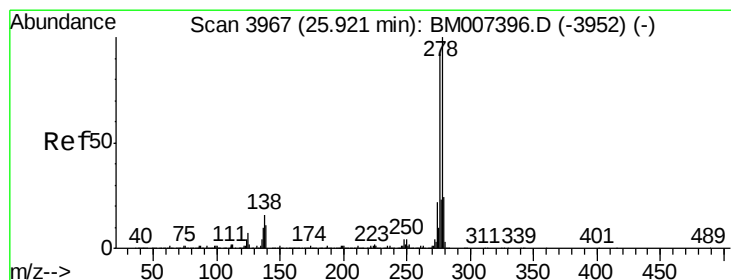
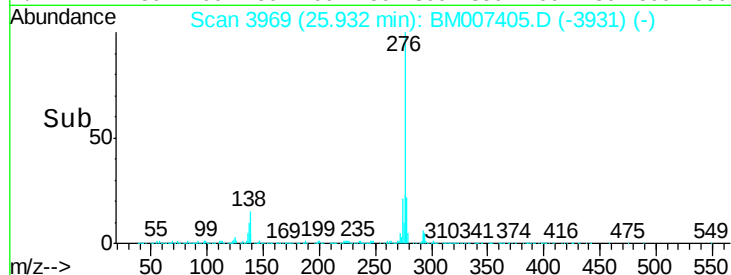
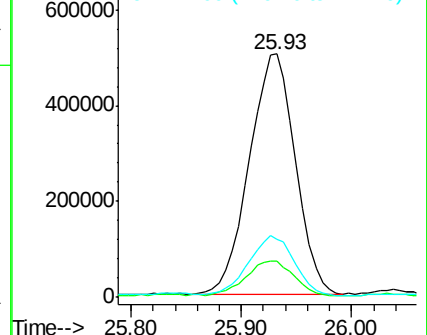
277 23.8 20.1 30.1



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: 5.12 ng/ul

RT: 25.93 min Scan# 3968

Delta R.T. 0.01 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

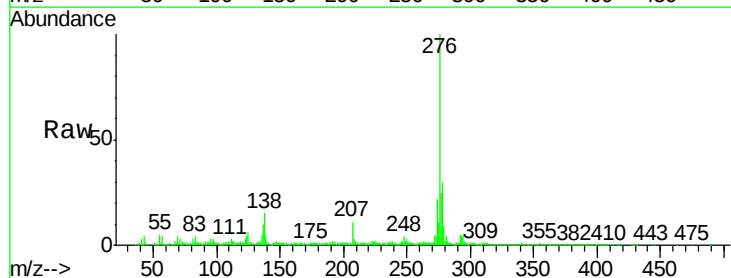
Tgt Ion:278 Resp: 522101

Ion Ratio Lower Upper

278 100

139 13.8 9.5 14.3

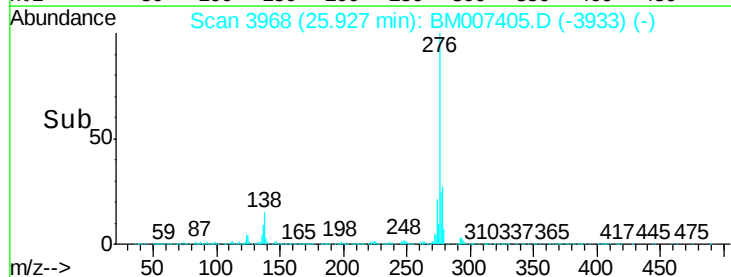
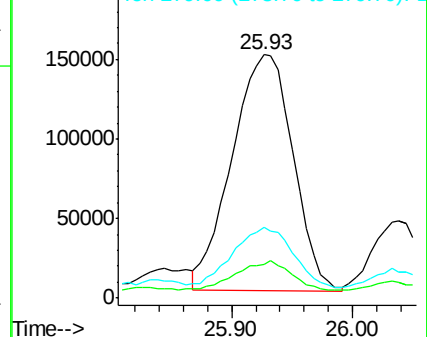
279 29.2 19.1 28.7#

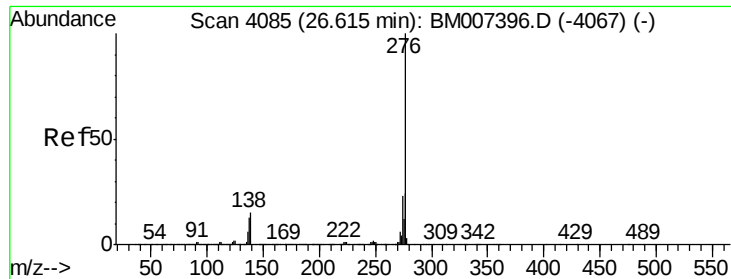


Abundance Ion 278.00 (277.70 to 278.70): E

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: 11.01 ng/ul

RT: 26.63 min Scan# 4088

Delta R.T. 0.02 min

Lab File: BM007405.D

Acq: 03 Sep 2016 13:46

Instrument :

BNA_M

ClientSampleId :

BD387

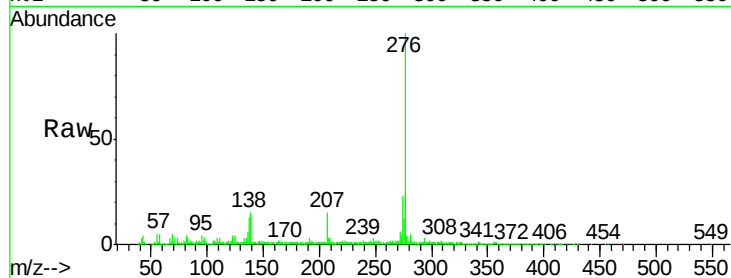
Tgt Ion:276 Resp: 1145377

Ion Ratio Lower Upper

276 100

138 14.7 13.5 20.3

277 24.1 19.3 28.9



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

500000

400000

300000

200000

100000

0

26.50

26.60

26.70

26.80

Time-->

