

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031717\
 Data File : BM009282.D
 Acq On : 17 Mar 2017 20:00
 Operator : SJ/MA
 Sample : I2285-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CB320

Quant Time: Mar 18 00:41:17 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM031717-PAH.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Mar 18 00:39:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	115071	20.00	ng/ul	0.00
2) Naphthalene-d8	10.67	136	532185	20.00	ng/ul	0.00
6) Acenaphthene-d10	14.52	164	362711	20.00	ng/ul	0.00
12) Phenanthrene-d10	17.26	188	955959	20.00	ng/ul	0.00
18) Chrysene-d12	21.44	240	1492637	20.00	ng/ul	0.00
23) Perylene-d12	23.77	264	1543855	20.00	ng/ul	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2,4-Dichlorophenol-d3	10.29	165	7925	0.92	ng/uL	0.00
7) Acenaphthylene-d8	14.21	160	508186	16.53	ng/ul	0.00
10) Fluorene-d10	15.50	176	430776	15.98	ng/ul	0.00
15) Anthracene-d10	17.36	188	737447	16.24	ng/ul	0.00
19) Pyrene-d10	19.65	212	968847	16.19	ng/ul	0.00
26) Benzo(a)pyrene-d12	23.62	264	1098414	15.65	ng/ul	0.00

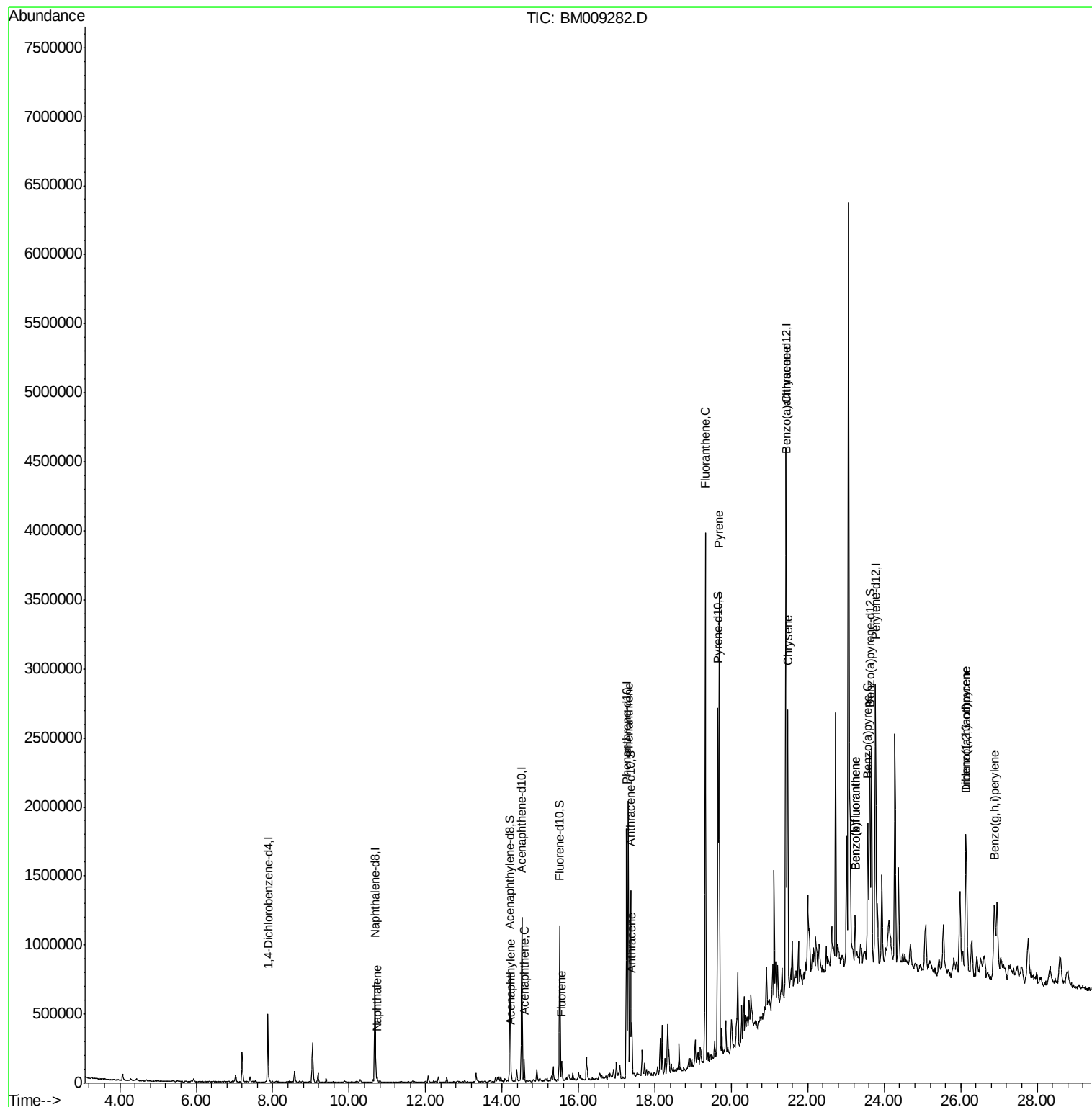
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	10.73	128	30088	1.11	ng/ul#	95
8) Acenaphthylene	14.24	152	31665	1.02	ng/ul#	90
9) Acenaphthene	14.58	153	58301	2.59	ng/ul	93
11) Fluorene	15.56	166	56837	1.84	ng/ul	95
14) Phenanthrene	17.30	178	1151598	21.39	ng/ul	97
16) Anthracene	17.39	178	245610	4.40	ng/ul	98
17) Fluoranthene	19.32	202	2198131	32.22	ng/ul	96
20) Pyrene	19.68	202	1928387	25.04	ng/ul	96
21) Benzo(a)anthracene	21.42	228	1218969	14.35	ng/ul	99
22) Chrysene	21.47	228	1141587	14.23	ng/ul	96
24) Benzo(b)fluoranthene	23.24	252	169321	1.86	ng/ul	95
25) Benzo(k)fluoranthene	23.24	252	236151	2.76	ng/ul	94
27) Benzo(a)pyrene	23.57	252	746130	8.53	ng/ul	99
28) Indeno(1,2,3-cd)pyrene	26.14	276	730657	7.04	ng/ul#	93
29) Dibenzo(a,h)anthracene	26.15	278	199673	2.28	ng/ul	97
30) Benzo(g,h,i)perylene	26.88	276	621098	7.19	ng/ul#	93

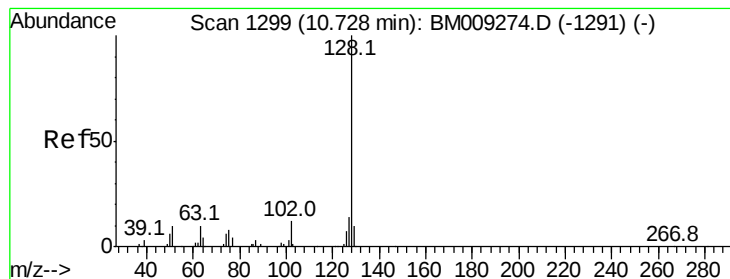
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Naphthalene

Concen: 1.11 ng/ul

RT: 10.73 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampleId :

CB320

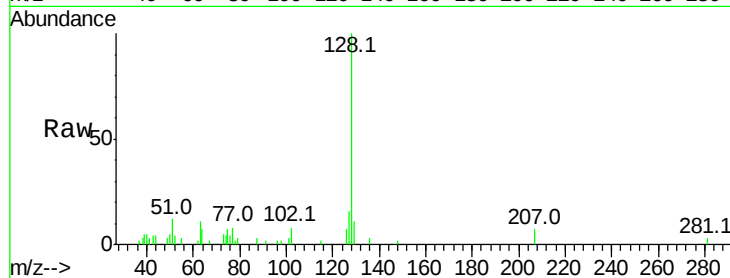
Tot Ion:128 Resp: 30088

Ion Ratio Lower Upper

128 100

129 10.7 9.1 13.7

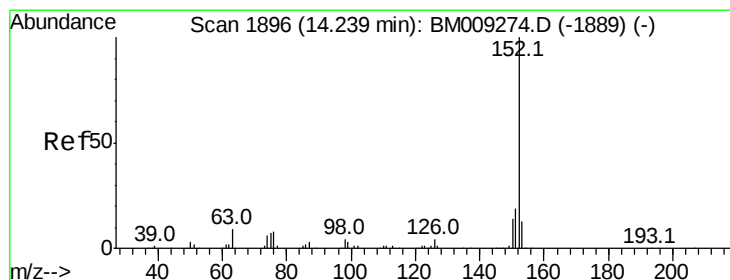
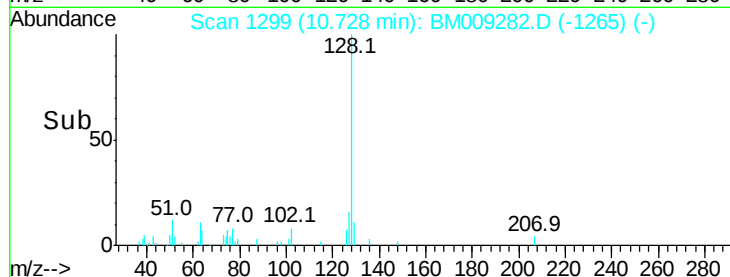
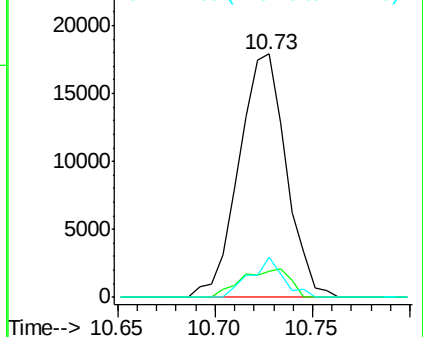
127 16.4 10.6 15.8#



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



#8

Acenaphthylene

Concen: 1.02 ng/ul

RT: 14.24 min Scan# 1896

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

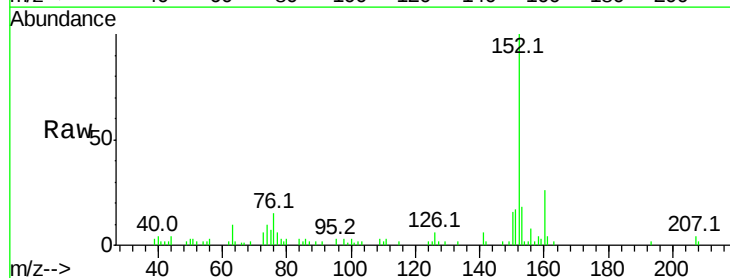
Tgt Ion:152 Resp: 31665

Ion Ratio Lower Upper

152 100

151 17.4 17.5 26.3#

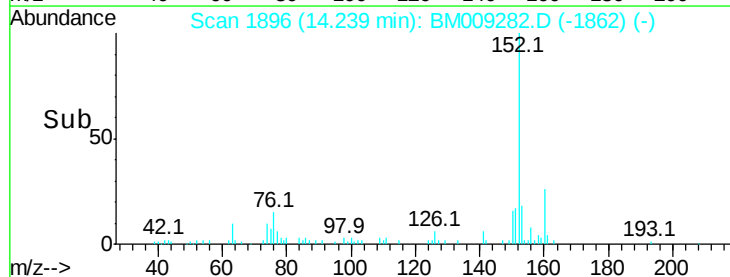
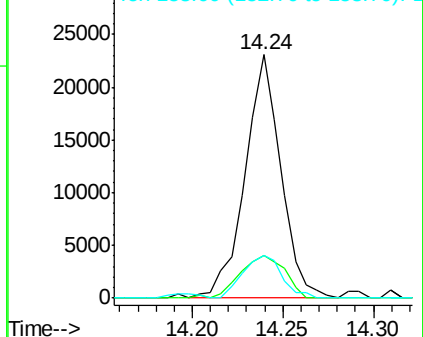
153 17.7 10.6 16.0#

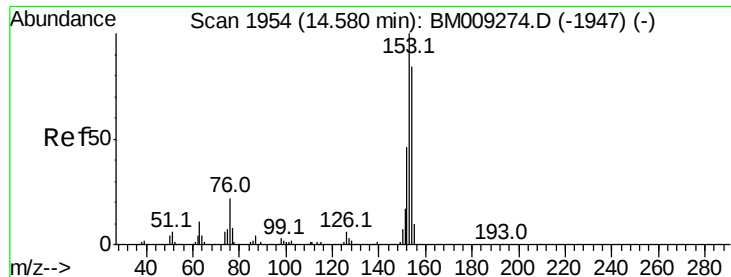


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 2.59 ng/ul

RT: 14.58 min Scan# 1954

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampled :

CB320

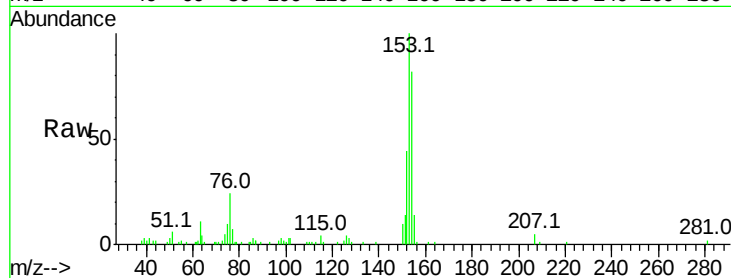
Tot Ion:153 Resp: 58301

Ion Ratio Lower Upper

153 100

152 43.6 37.9 56.9

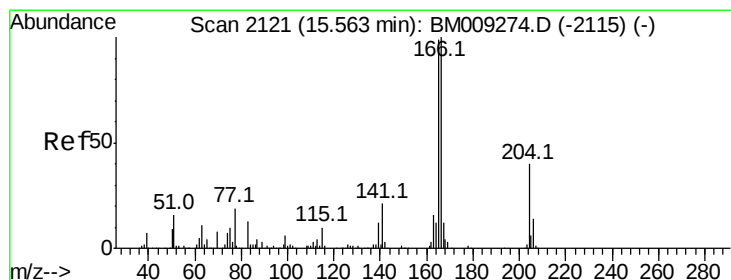
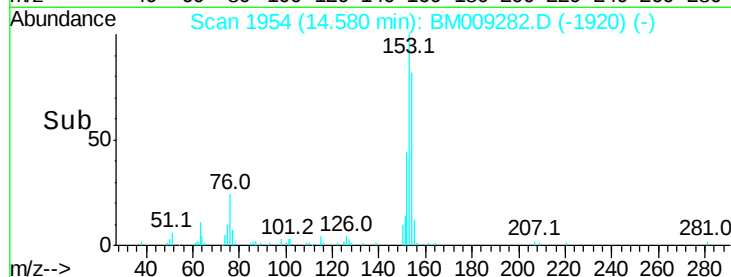
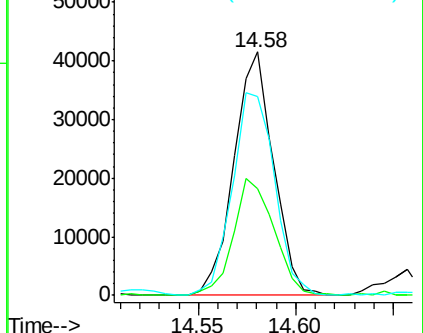
154 81.8 71.6 107.4



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



#11

Fluorene

Concen: 1.84 ng/ul

RT: 15.56 min Scan# 2121

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

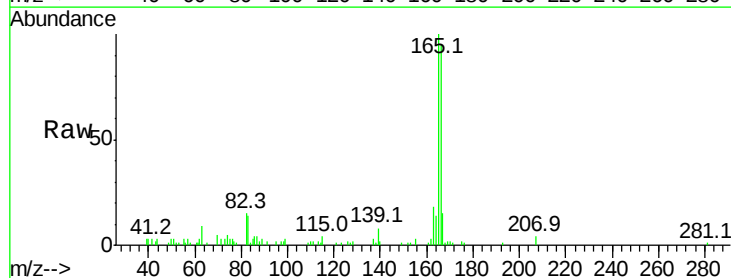
Tgt Ion:166 Resp: 56837

Ion Ratio Lower Upper

166 100

165 105.8 80.0 120.0

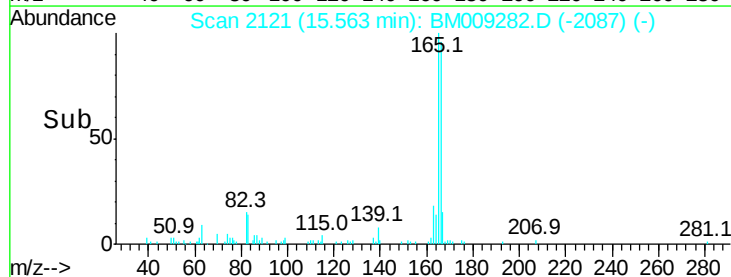
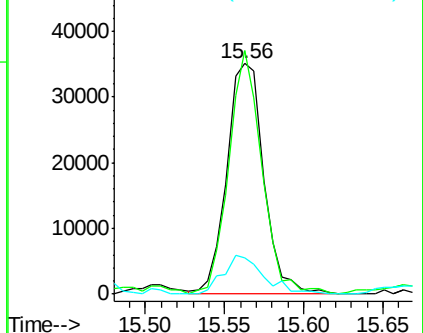
167 15.9 11.6 17.4

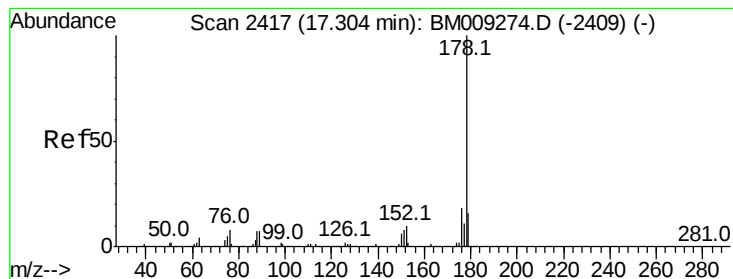


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#14

Phenanthrene

Concen: 21.39 ng/ul

RT: 17.30 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

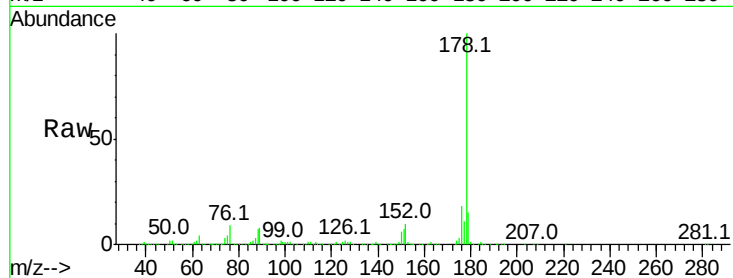
BNA_M

ClientSampled :

CB320

Tot Ion:178 Resp: 1151598

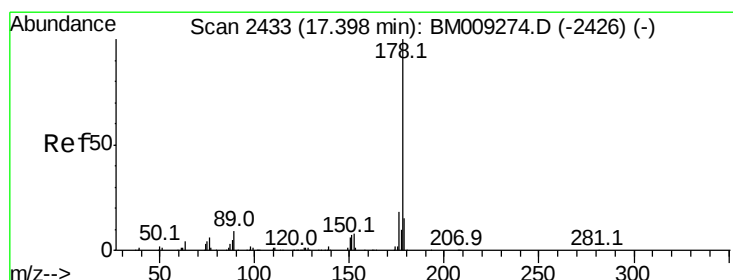
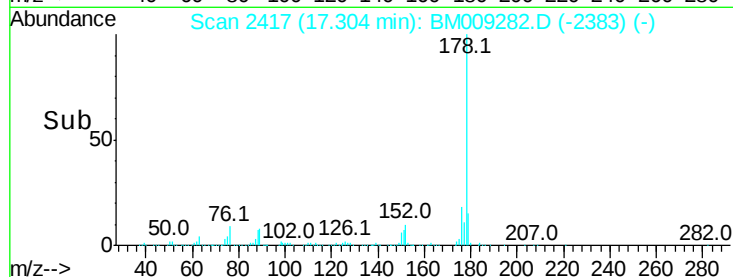
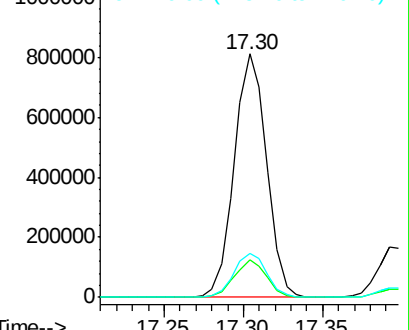
Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4
176	18.3	16.4	24.6



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



#16

Anthracene

Concen: 4.40 ng/ul

RT: 17.39 min Scan# 2432

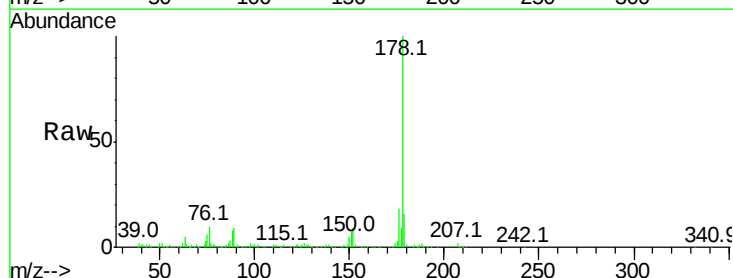
Delta R.T. -0.01 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Tgt Ion:178 Resp: 245610

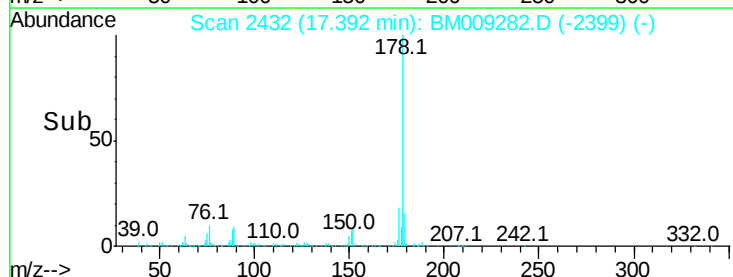
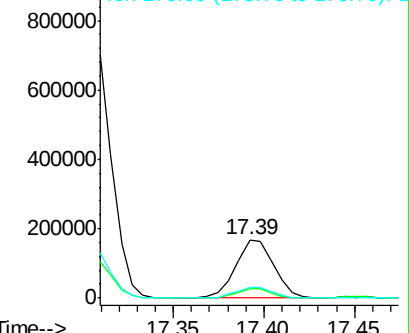
Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.7	19.1
176	18.2	15.8	23.8

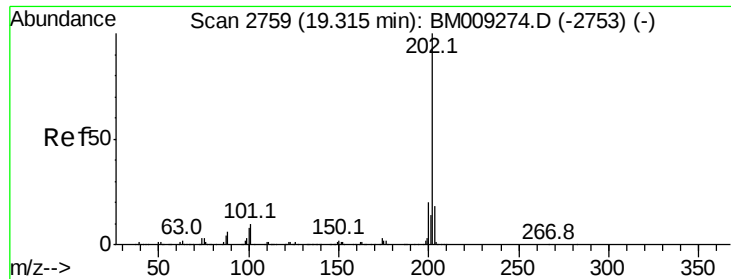


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



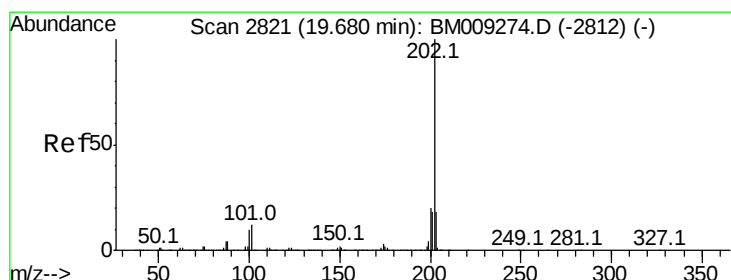
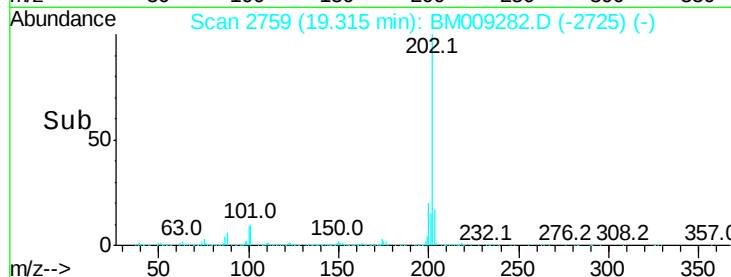
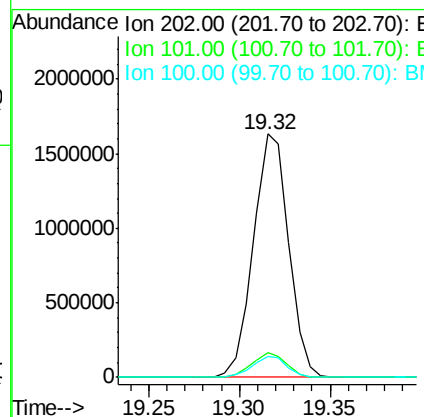
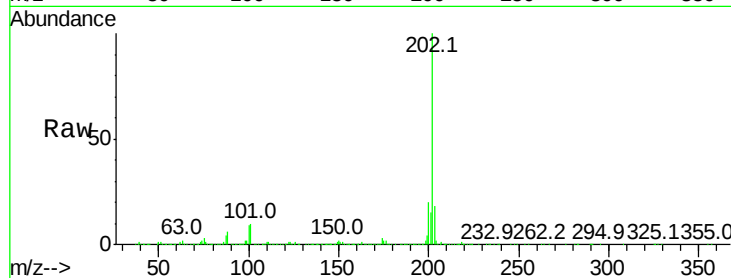


#17
Fluoranthene
 Concen: 32.22 ng/ul
 RT: 19.32 min Scan# 2759
 Delta R.T. 0.00 min
 Lab File: BM009282.D
 Acq: 17 Mar 2017 20:00

Instrument :
 BNA_M
 ClientSampleId :
 CB320

Tot Ion:202 Resp: 2198131

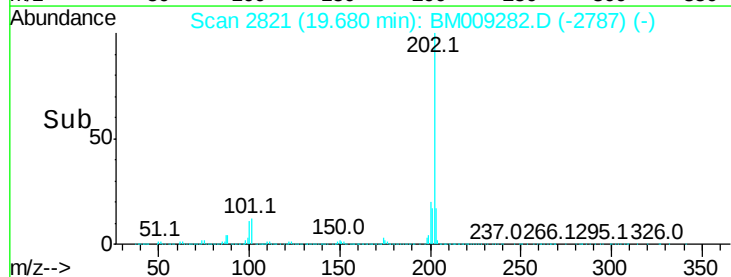
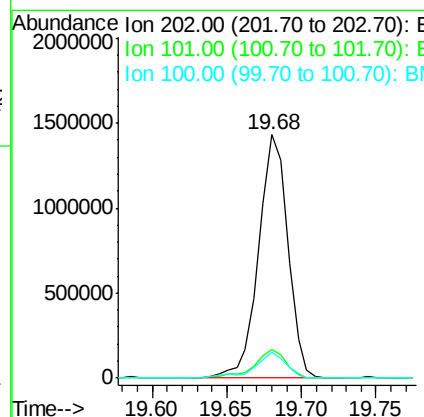
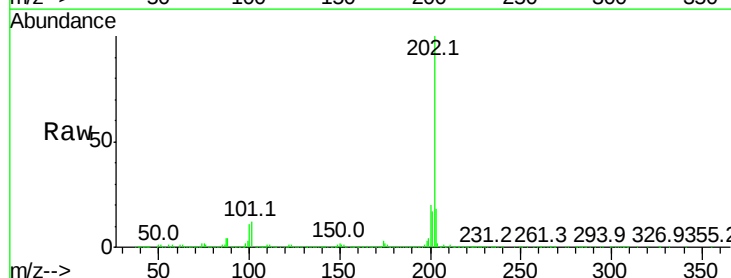
Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.8	14.8
100	8.6	7.5	11.3

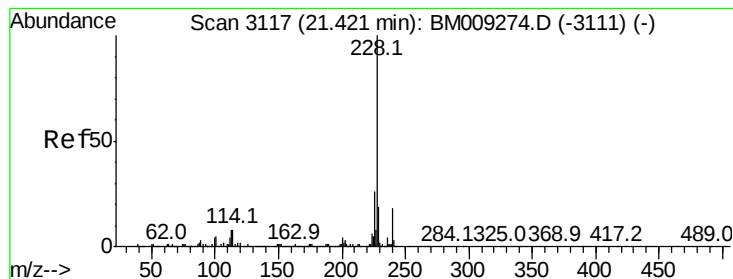


#20
Pyrene
 Concen: 25.04 ng/ul
 RT: 19.68 min Scan# 2821
 Delta R.T. 0.00 min
 Lab File: BM009282.D
 Acq: 17 Mar 2017 20:00

Tgt Ion:202 Resp: 1928387

Ion	Ratio	Lower	Upper
202	100		
101	11.9	11.2	16.8
100	10.7	9.8	14.6





#21

Benzo(a)anthracene

Concen: 14.35 ng/ul

RT: 21.42 min Scan# 3117

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampleId :

CB320

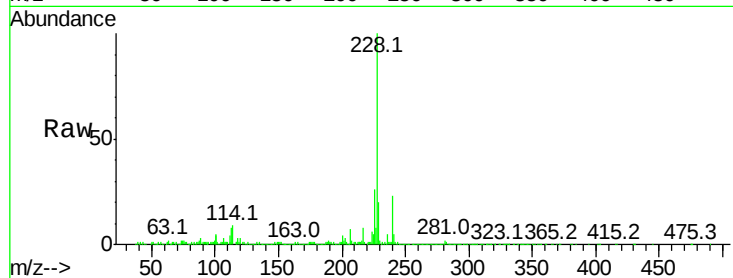
Tot Ion:228 Resp: 1218969

Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.9	23.9
226	26.5	22.1	33.1

228 100

229 19.9 15.9 23.9

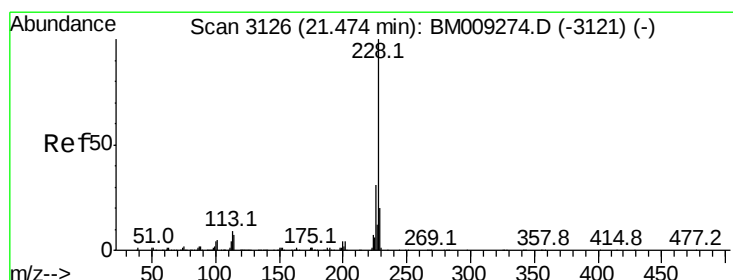
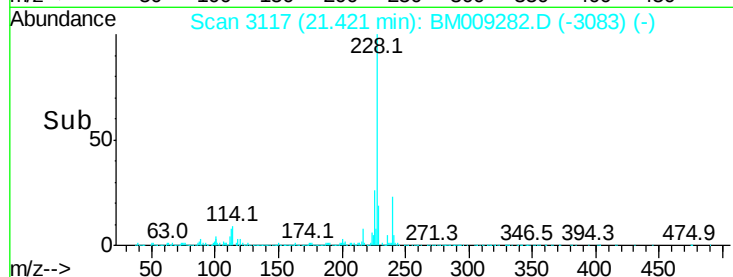
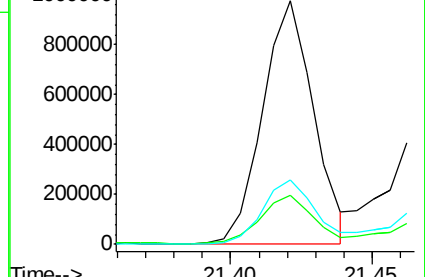
226 26.5 22.1 33.1



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



#22

Chrysene

Concen: 14.23 ng/ul

RT: 21.47 min Scan# 3126

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

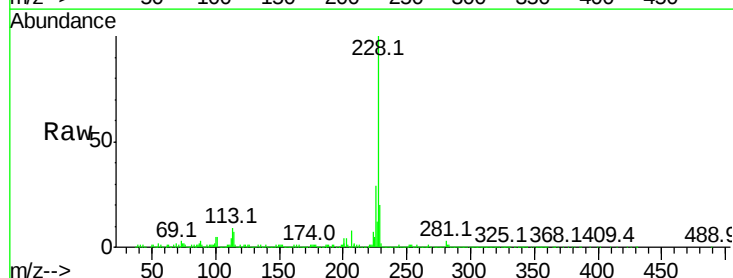
Tgt Ion:228 Resp: 1141587

Ion	Ratio	Lower	Upper
228	100		
226	28.7	25.0	37.6
229	19.6	16.6	25.0

228 100

226 28.7 25.0 37.6

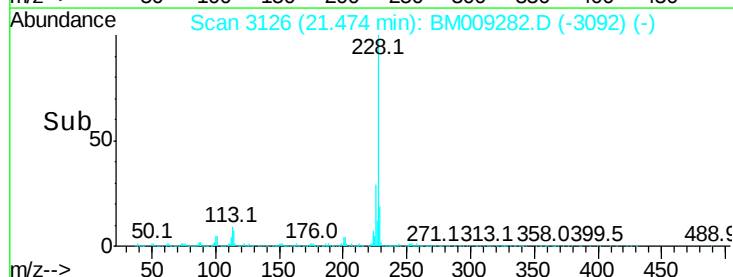
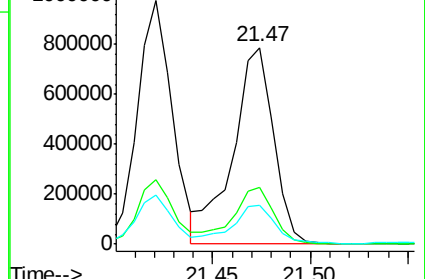
229 19.6 16.6 25.0

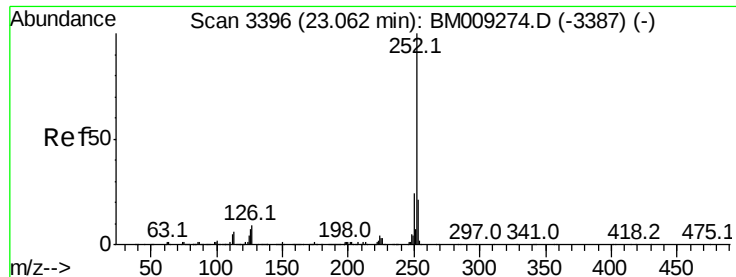


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#24

Benzo(b)fluoranthene

Concen: 1.86 ng/ul

RT: 23.24 min Scan# 3426

Delta R.T. 0.18 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampleId :

CB320

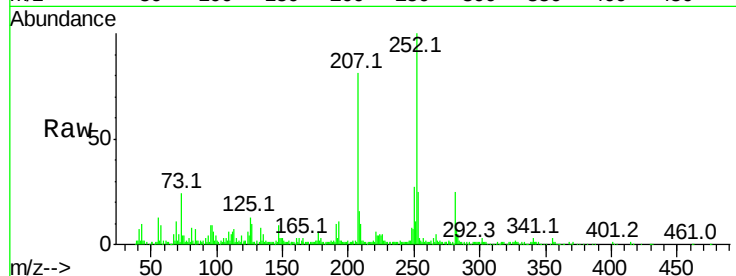
Tot Ion:252 Resp: 169321

Ion Ratio Lower Upper

252 100

253 25.0 17.8 26.6

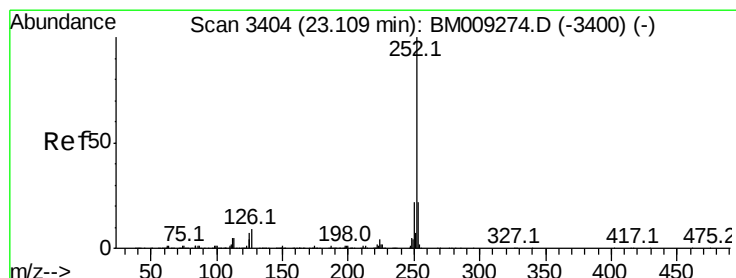
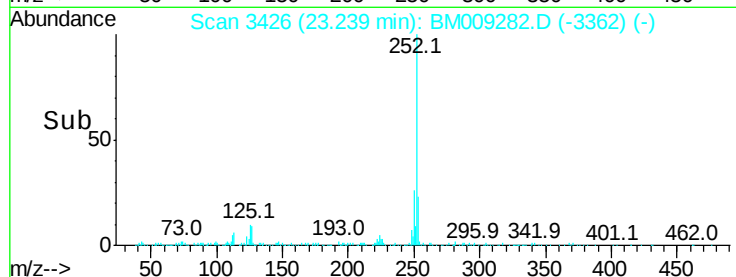
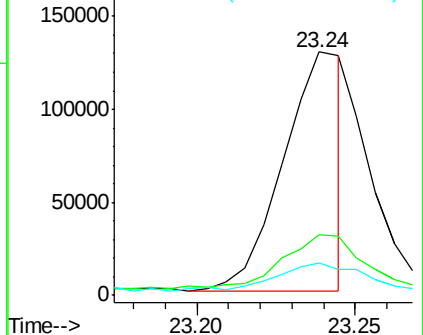
125 13.1 9.4 14.0



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



#25

Benzo(k)fluoranthene

Concen: 2.76 ng/ul

RT: 23.24 min Scan# 3426

Delta R.T. 0.13 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

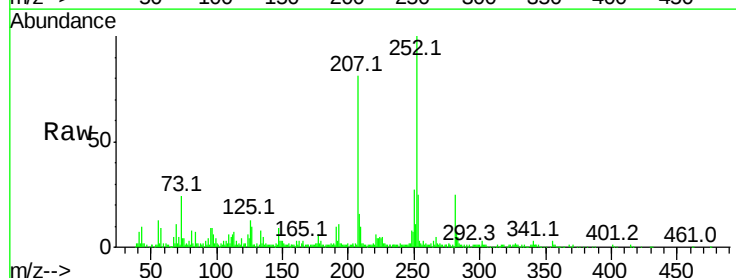
Tgt Ion:252 Resp: 236151

Ion Ratio Lower Upper

252 100

253 25.0 17.4 26.2

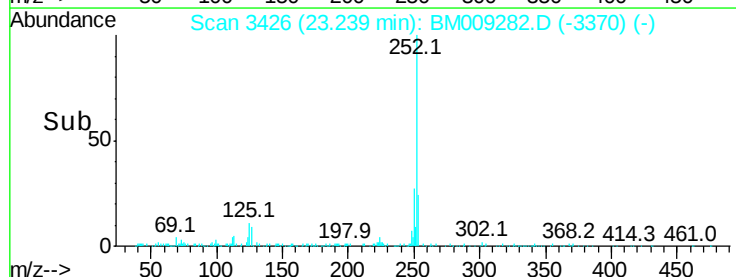
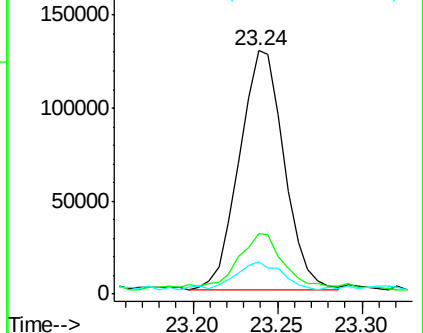
125 13.1 8.8 13.2

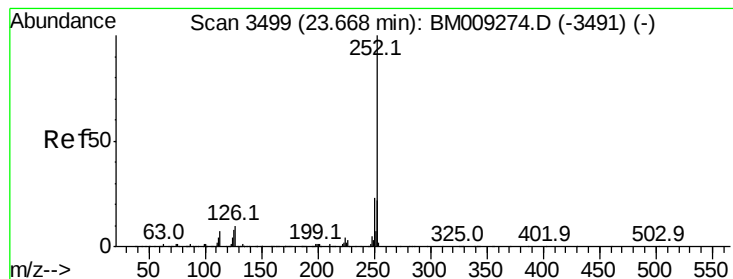


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#27

Benzo(a)pyrene

Concen: 8.53 ng/ul

RT: 23.57 min Scan# 3482

Delta R.T. -0.10 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampleId :

CB320

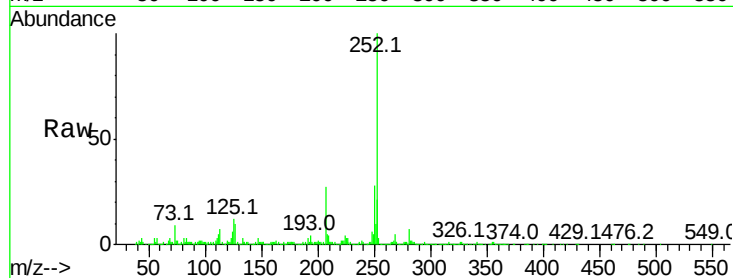
Tot Ion:252 Resp: 746130

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.1	25.7
125	11.6	9.4	14.2

252 100

253 21.0 17.1 25.7

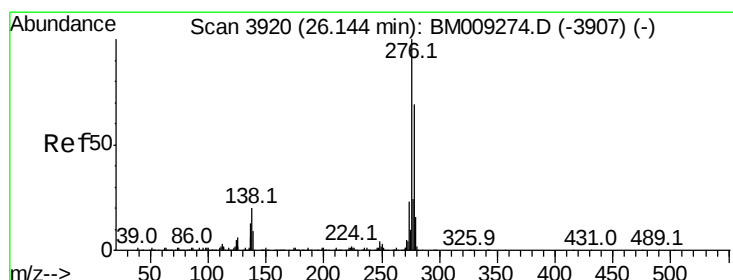
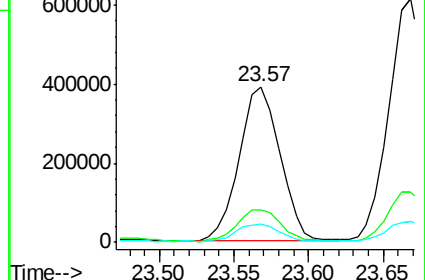
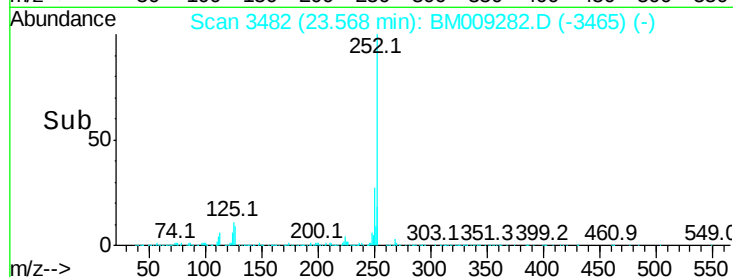
125 11.6 9.4 14.2



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



#28

Indeno(1,2,3-cd)pyrene

Concen: 7.04 ng/ul

RT: 26.14 min Scan# 3919

Delta R.T. -0.01 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

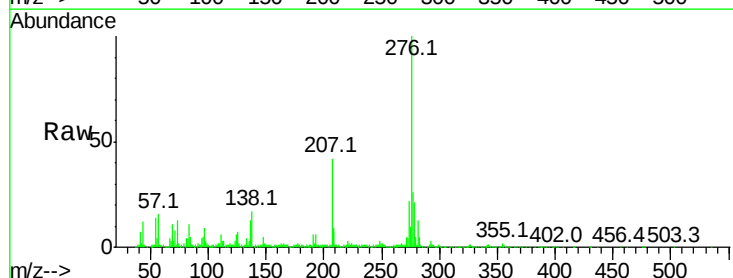
Tgt Ion:276 Resp: 730657

Ion	Ratio	Lower	Upper
276	100		
138	17.2	17.8	26.6#
277	26.0	19.4	29.0

276 100

138 17.2 17.8 26.6#

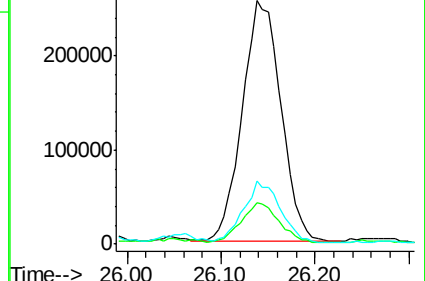
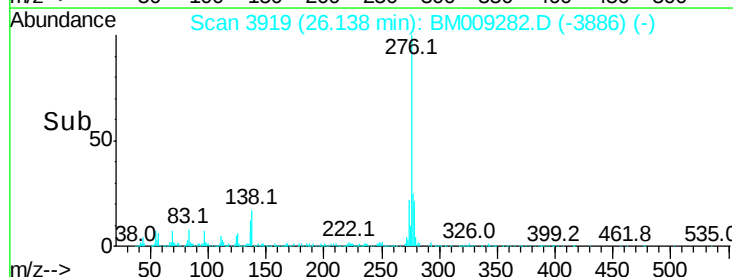
277 26.0 19.4 29.0

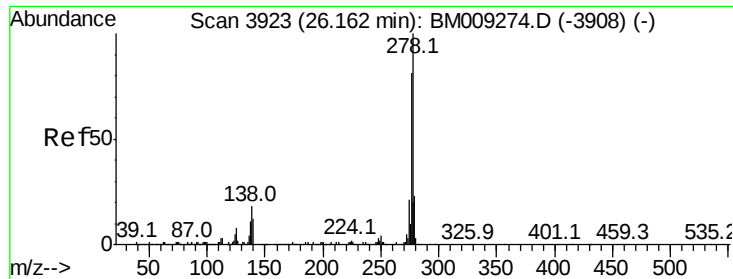


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#29

Dibenzo(a,h)anthracene

Concen: 2.28 ng/ul

RT: 26.15 min Scan# 3921

Delta R.T. -0.01 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

Instrument :

BNA_M

ClientSampleId :

CB320

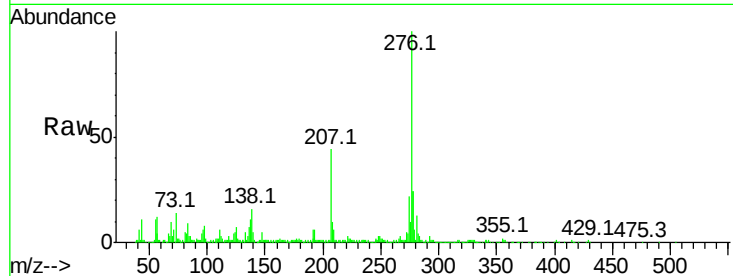
Tot Ion:278 Resp: 199673

Ion Ratio Lower Upper

278 100

139 19.2 14.0 21.0

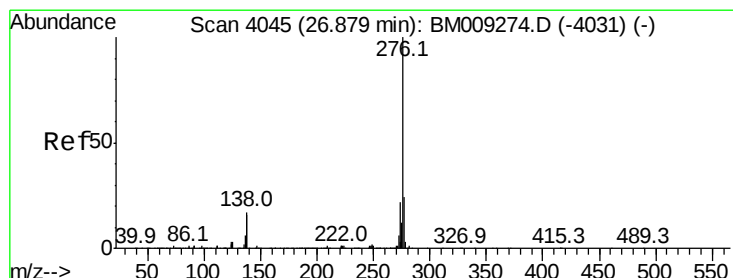
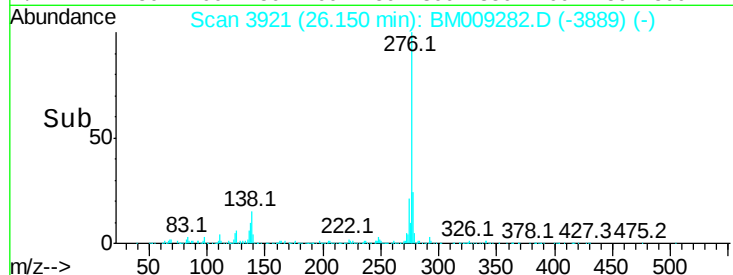
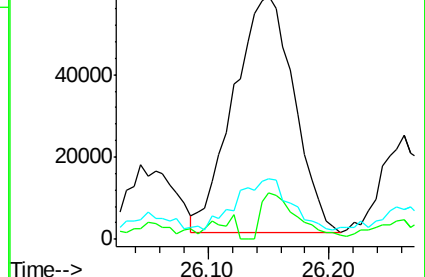
279 24.6 20.6 31.0



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



#30

Benzo(g,h,i)perylene

Concen: 7.19 ng/ul

RT: 26.88 min Scan# 4045

Delta R.T. 0.00 min

Lab File: BM009282.D

Acq: 17 Mar 2017 20:00

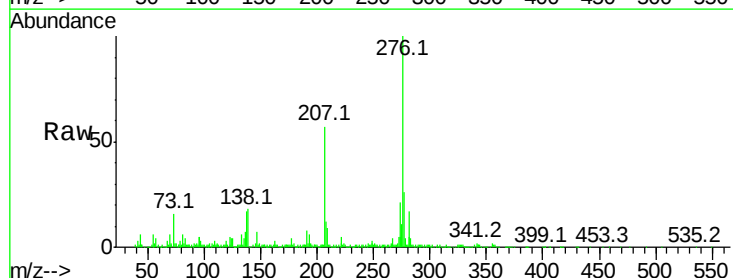
Tgt Ion:276 Resp: 621098

Ion Ratio Lower Upper

276 100

138 18.2 19.0 28.4#

277 25.7 19.7 29.5



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

