

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM081415\
 Data File : BM002431.D
 Acq On : 15 Aug 2015 19:01
 Operator : UM/IZ
 Sample : G3219-05
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Manual Integrations
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 8/17/2015 2:46:33 PM

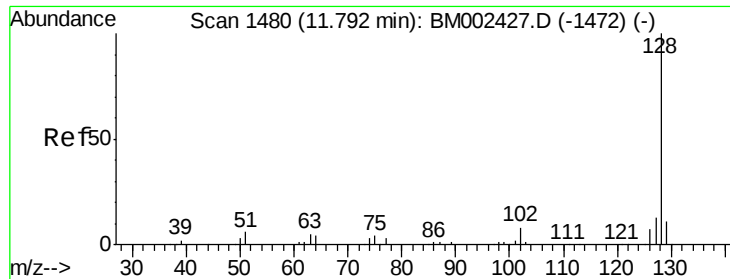
Quant Time: Aug 17 05:40:12 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM081415MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Aug 17 05:12:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.87	152	152336	20.00	ng/ul	0.00
2) Naphthalene-d8	11.75	136	739520	20.00	ng/ul	0.00
6) Acenaphthene-d10	15.45	164	391057	20.00	ng/ul	0.00
12) Phenanthrene-d10	18.17	188	730804m	20.00	ng/ul	0.01
17) Chrysene-d12	22.26	240	433615	20.00	ng/ul	0.02
22) Perylene-d12	24.93	264	558266m	20.00	ng/ul	0.03

System Monitoring Compounds						
7) Acenaphthylene-d8	15.16	160	1194398	29.87	ng/ul	0.00
10) Fluorene-d10	16.43	176	769205	27.39	ng/ul	0.00
14) Anthracene-d10	18.27	188	998055	28.31	ng/ul	0.02
18) Pyrene-d10	20.49	212	667369	34.72	ng/ul	0.02
25) Benzo(a)pyrene-d12	24.76	264	522833m	17.83	ng/ul	0.04

Target Compounds				Qvalue		
3) Naphthalene	11.80	128	1505256	39.88	ng/ul	100
4) 2-Methylnaphthalene	13.34	142	482253	17.05	ng/ul	98
5) 1-Methylnaphthalene	13.55	142	411921	14.73	ng/ul	100
8) Acenaphthylene	15.19	152	208173	4.97	ng/ul	98
9) Acenaphthene	15.52	153	1708229	61.97	ng/ul	99
11) Fluorene	16.48	166	1727998	54.71	ng/ul	99
13) Phenanthrene	18.24	178	17081132m	404.77	ng/ul	
15) Anthracene	18.31	178	4027566	94.17	ng/ul	98
16) Fluoranthene	20.19	202	18864090m	394.84	ng/ul	
19) Pyrene	20.54	202	15713959	618.60	ng/ul#	94
20) Benzo(a)anthracene	22.24	228	7287141	281.03	ng/ul	95
21) Chrysene	22.30	228	7282845m	300.29	ng/ul	
23) Benzo(b)fluoranthene	24.13	252	10296848m	305.09	ng/ul	
24) Benzo(k)fluoranthene	24.17	252	3342625m	104.51	ng/ul	
26) Benzo(a)pyrene	24.84	252	6920231m	214.67	ng/ul	
27) Indeno(1,2,3-cd)pyrene	27.83	276	5755650m	155.25	ng/ul	
28) Dibenzo(a,h)anthracene	27.80	278	1453054m	46.89	ng/ul	
29) Benzo(g,h,i)perylene	28.72	276	5235269m	169.65	ng/ul	

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



#3

Naphthalene

Concen: 39.88 ng/ul

RT: 11.80 min Scan# 1481

Delta R.T. 0.01 min

Lab File: BM002431.D

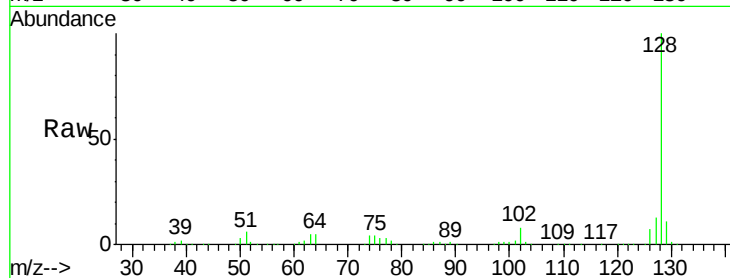
Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampled :

D9D98



Tgt Ion:128 Resp: 1505256

Ion Ratio Lower Upper

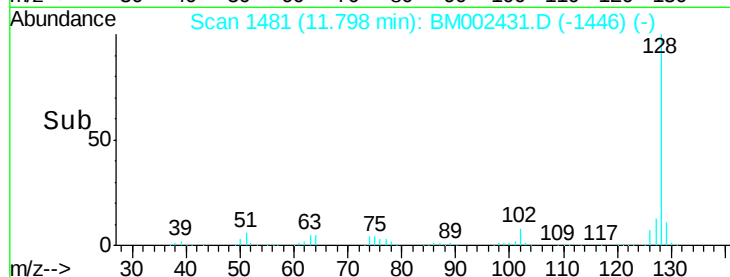
128 100

129 10.9 8.6 12.8

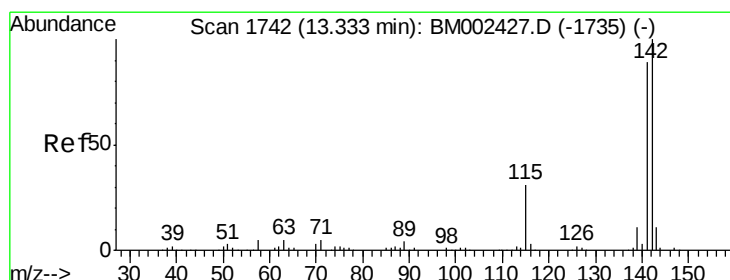
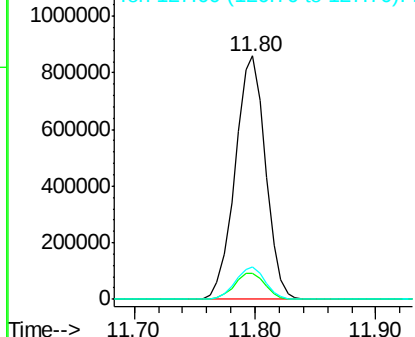
127 13.2 10.4 15.6

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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



#4

2-Methylnaphthalene

Concen: 17.05 ng/ul

RT: 13.34 min Scan# 1743

Delta R.T. 0.01 min

Lab File: BM002431.D

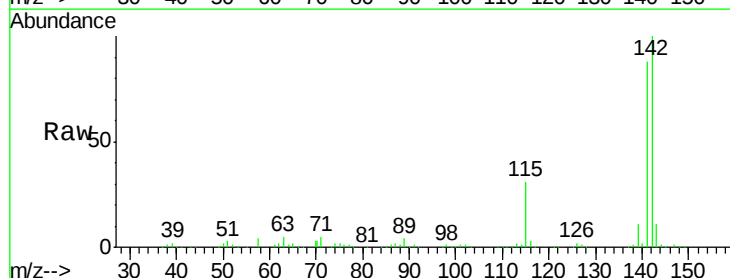
Acq: 15 Aug 2015 19:01

Tgt Ion:142 Resp: 482253

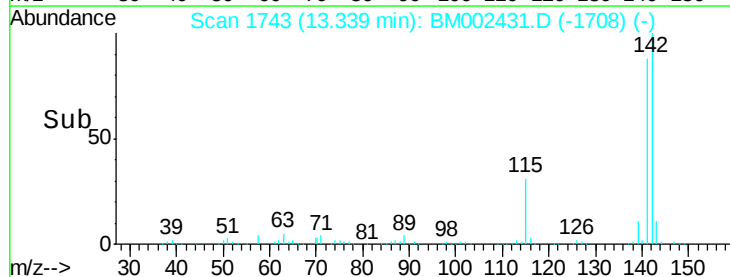
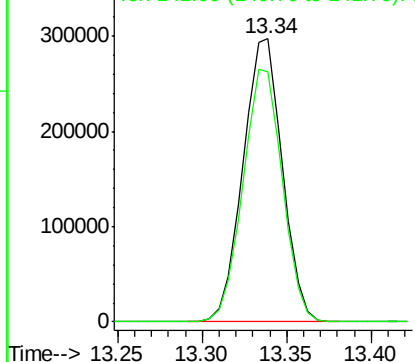
Ion Ratio Lower Upper

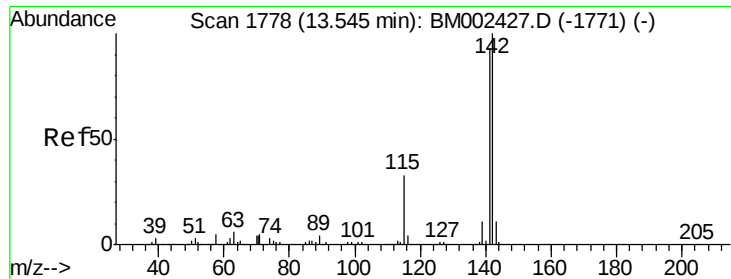
142 100

141 88.3 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 14.73 ng/ul

RT: 13.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

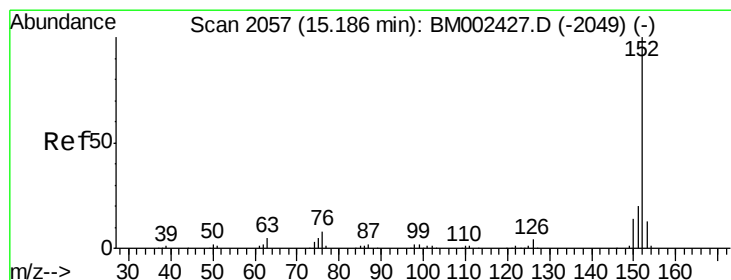
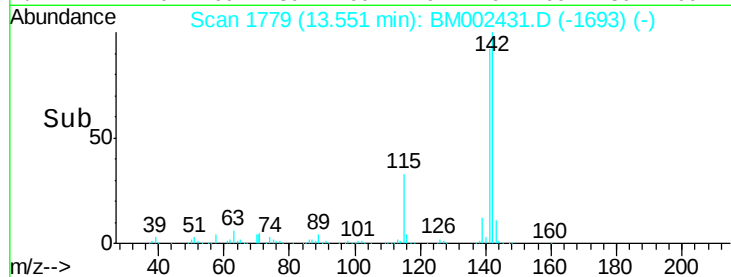
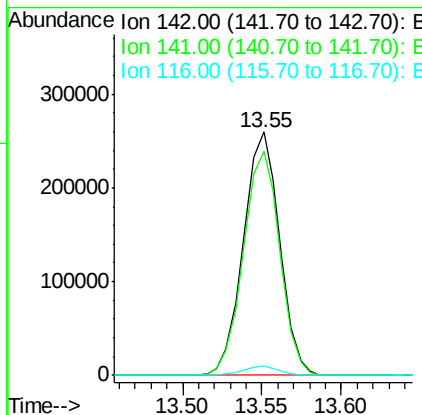
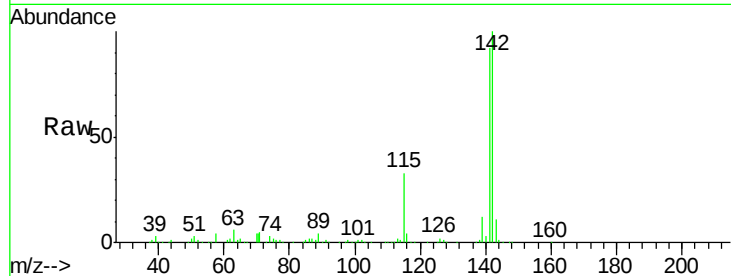
ClientSampleId :

D9D98

Tgt Ion:	142	Resp:	411921
Ion Ratio	Lower	Upper	
142	100		
141	92.3	73.9	110.9
116	3.7	3.0	4.4

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#8

Acenaphthylene

Concen: 4.97 ng/ul

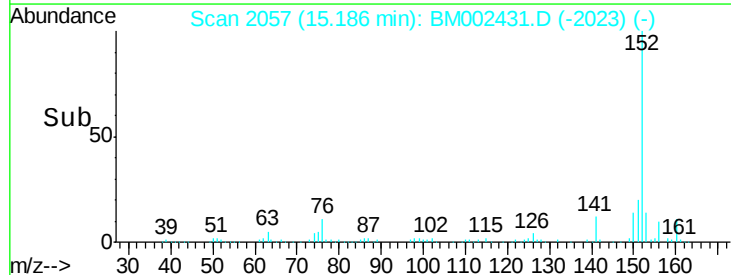
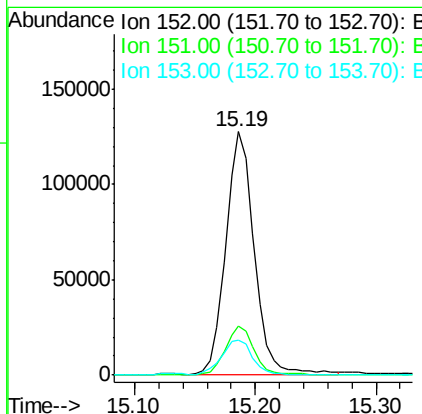
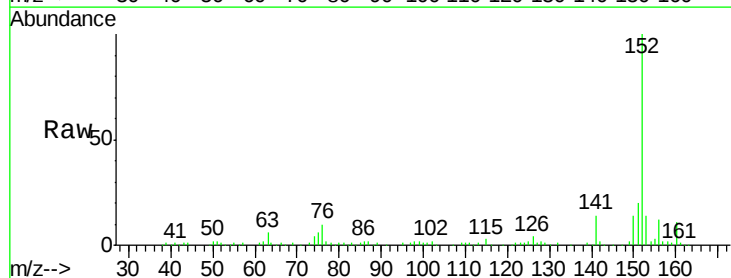
RT: 15.19 min Scan# 2057

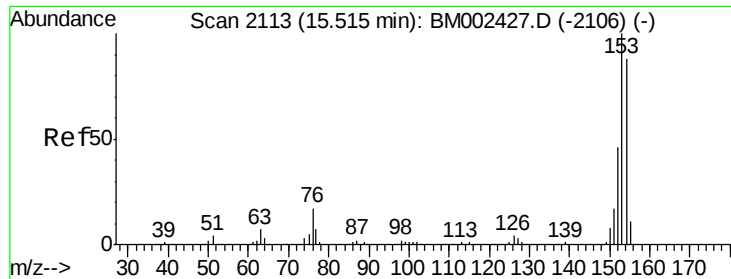
Delta R.T. 0.00 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Tgt Ion:	152	Resp:	208173
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.7	23.5
153	14.4	10.2	15.4





#9

Acenaphthene

Concen: 61.97 ng/ul

RT: 15.52 min Scan# 2114

Delta R.T. 0.01 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampled :

D9D98

Tgt Ion:153 Resp: 1708229

Ion Ratio Lower Upper

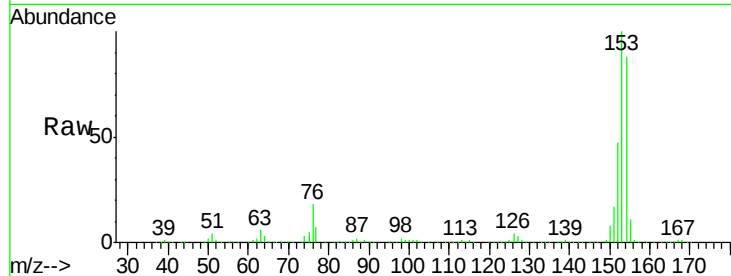
153 100

152 47.0 36.9 55.3

154 88.3 71.3 106.9

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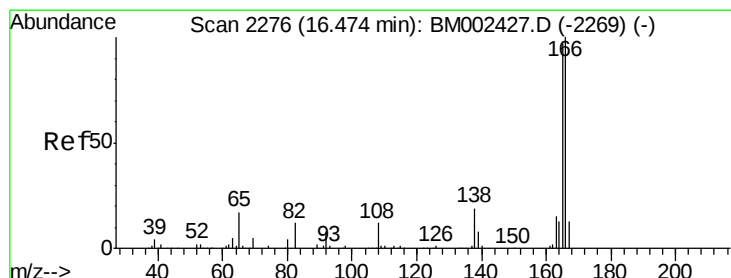
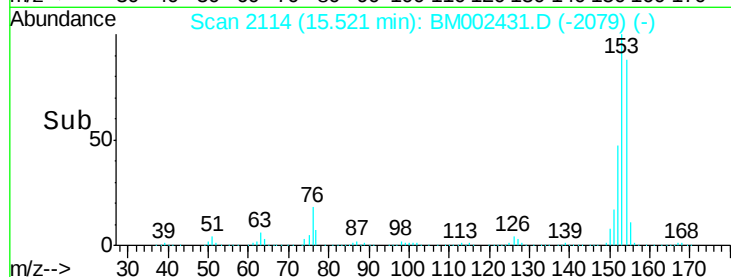
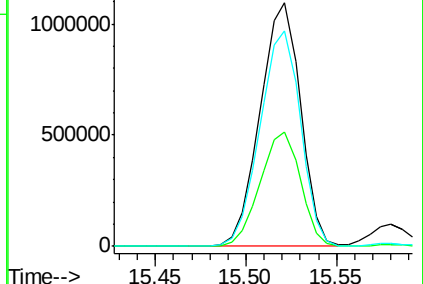
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#11

Fluorene

Concen: 54.71 ng/ul

RT: 16.48 min Scan# 2277

Delta R.T. 0.01 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

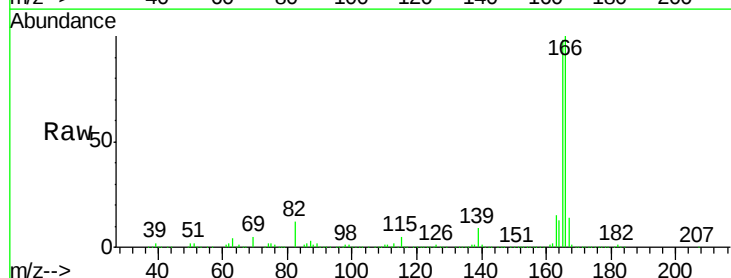
Tgt Ion:166 Resp: 1727998

Ion Ratio Lower Upper

166 100

165 97.7 77.6 116.4

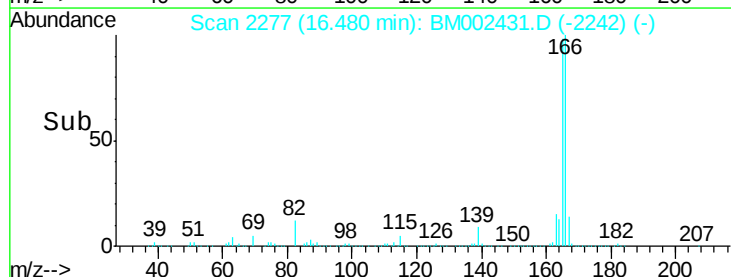
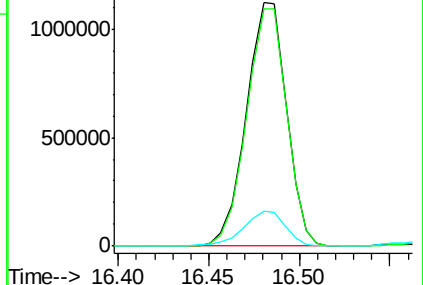
167 14.2 10.7 16.1

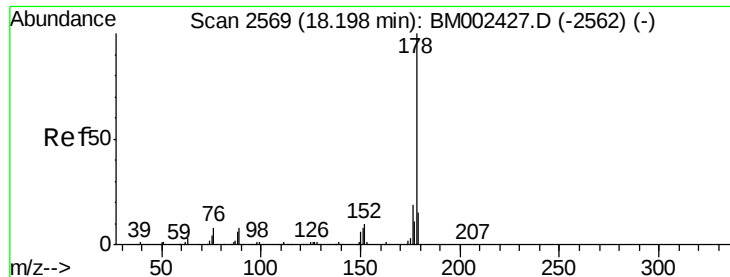


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene

Concen: 404.77 ng/ul m

RT: 18.24 min Scan# 2576

Delta R.T. 0.04 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampleId :

D9D98

Tgt Ion:178 Resp:17081132

Ion Ratio Lower Upper

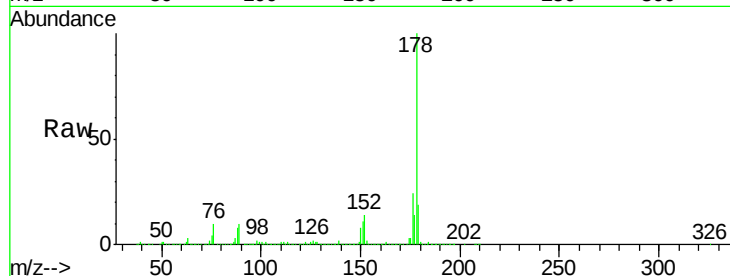
178 100

179 18.9 12.4 18.6#

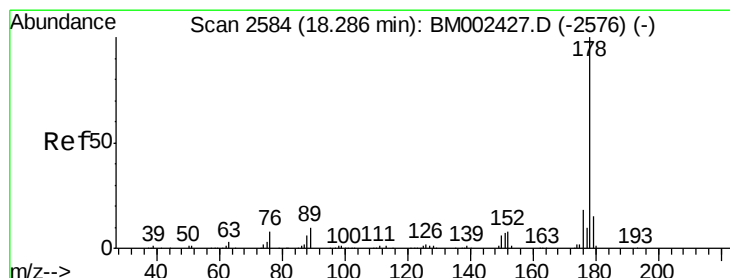
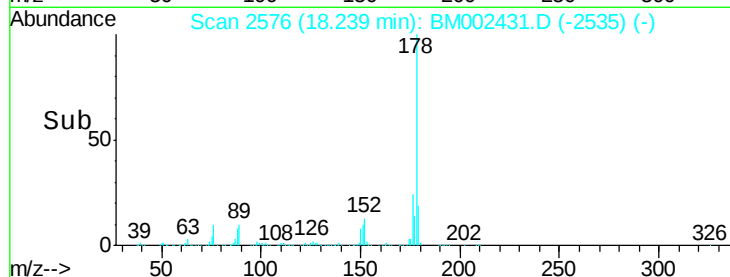
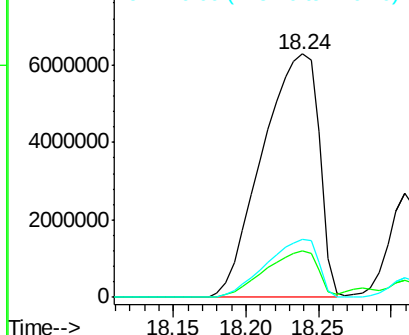
176 23.9 15.1 22.7#

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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



#15

Anthracene

Concen: 94.17 ng/ul

RT: 18.31 min Scan# 2588

Delta R.T. 0.02 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

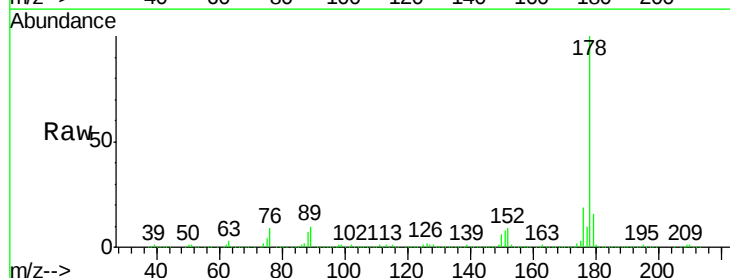
Tgt Ion:178 Resp: 4027566

Ion Ratio Lower Upper

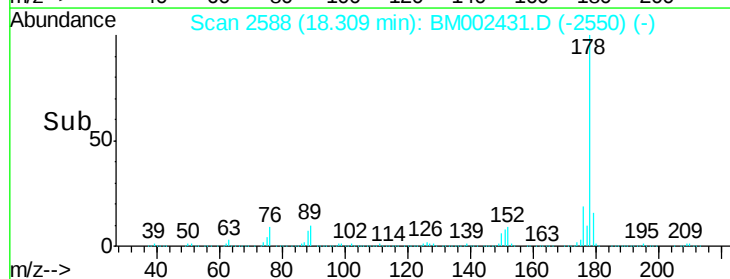
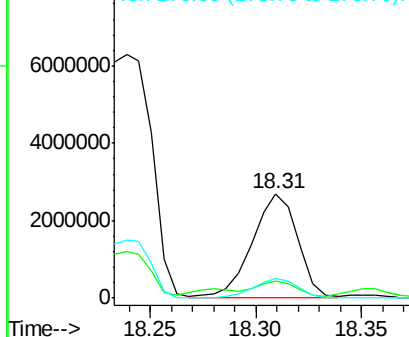
178 100

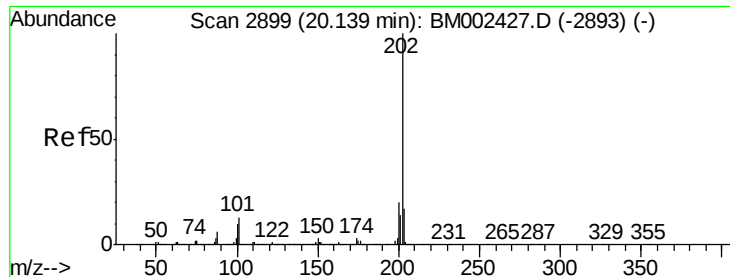
179 16.4 12.6 18.8

176 18.9 14.5 21.7



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





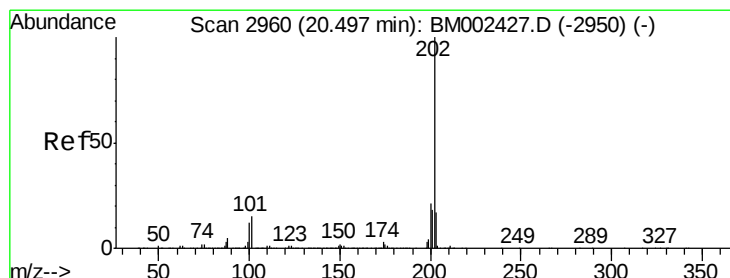
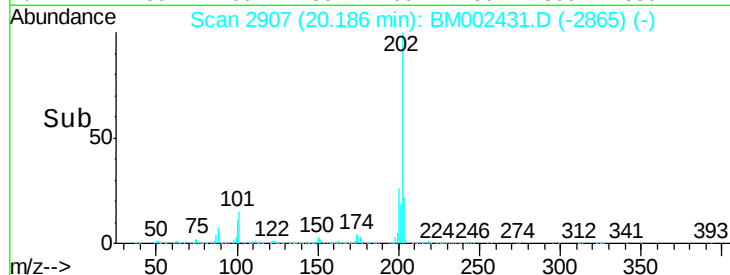
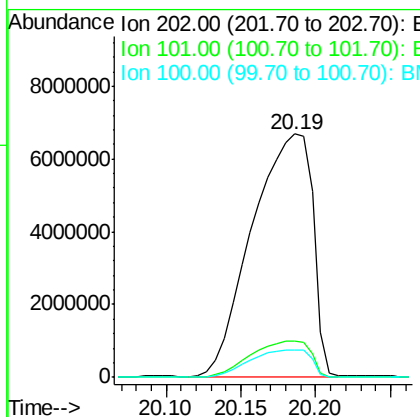
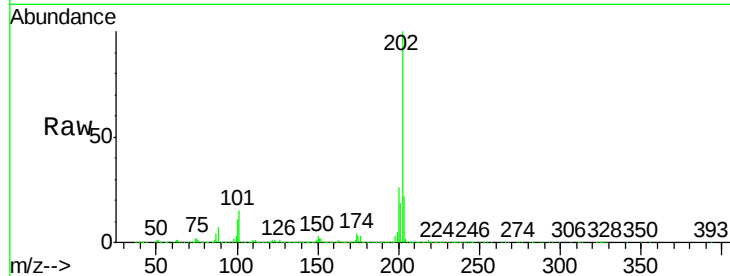
#16
Fluoranthene
 Concen: 394.84 ng/ul m
 RT: 20.19 min Scan# 2907
 Delta R.T. 0.05 min
 Lab File: BM002431.D
 Acq: 15 Aug 2015 19:01

Instrument :
 BNA_M
 ClientSampleId :
 D9D98

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.8	9.7	14.5#
100	11.4	7.4	11.2#

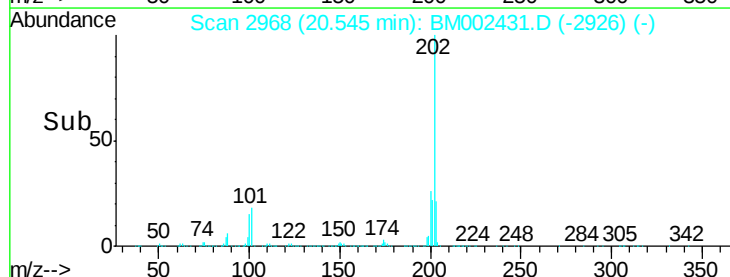
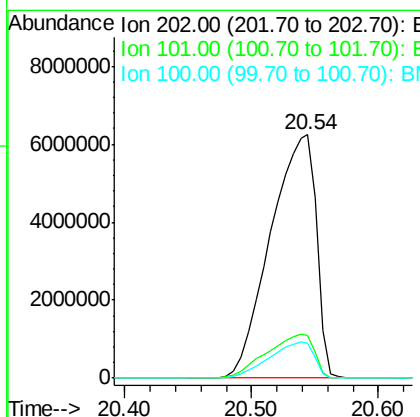
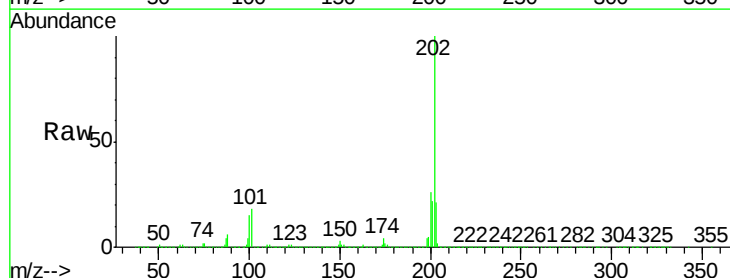
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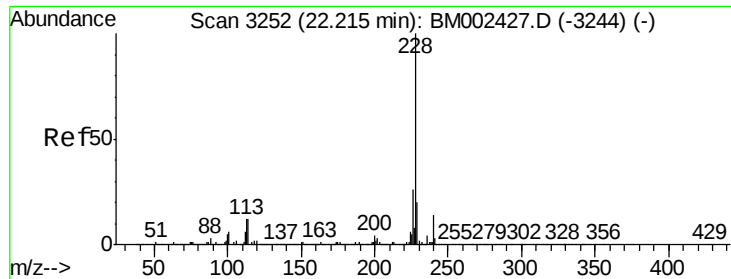
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#19
Pyrene
 Concen: 618.60 ng/ul
 RT: 20.54 min Scan# 2968
 Delta R.T. 0.05 min
 Lab File: BM002431.D
 Acq: 15 Aug 2015 19:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.5	12.0	18.0
100	14.6	9.7	14.5#





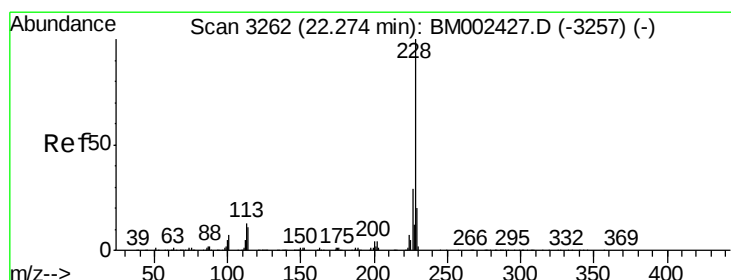
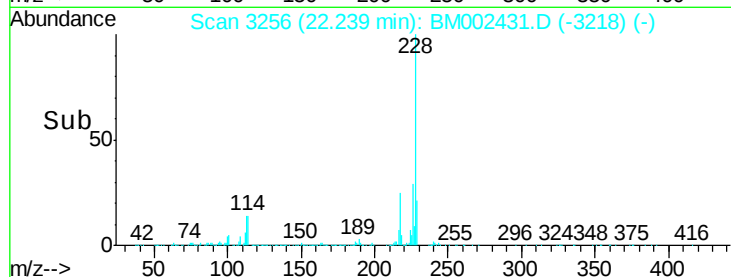
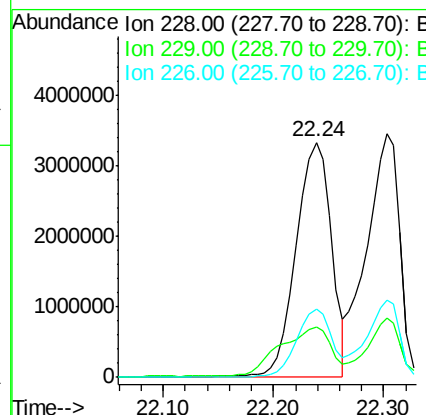
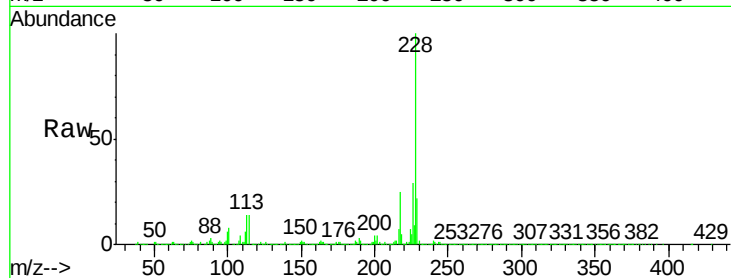
#20
Benzo(a)anthracene
Concen: 281.03 ng/u1
RT: 22.24 min Scan# 3256
Delta R.T. 0.02 min
Lab File: BM002431.D
Acq: 15 Aug 2015 19:01

Instrument :
BNA_M
ClientSampleId :
D9D98

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.6	15.8	23.6
226	29.2	21.1	31.7

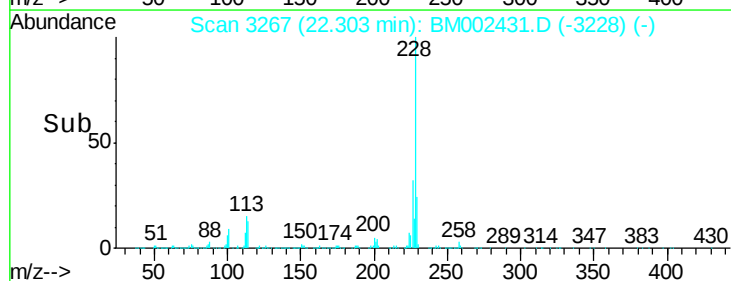
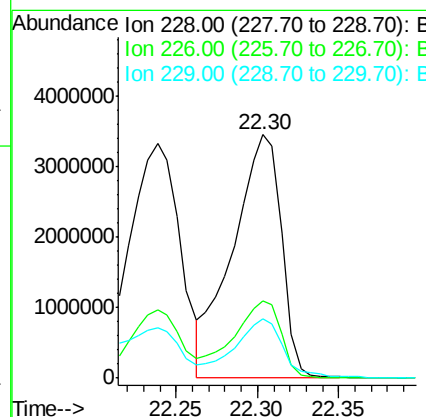
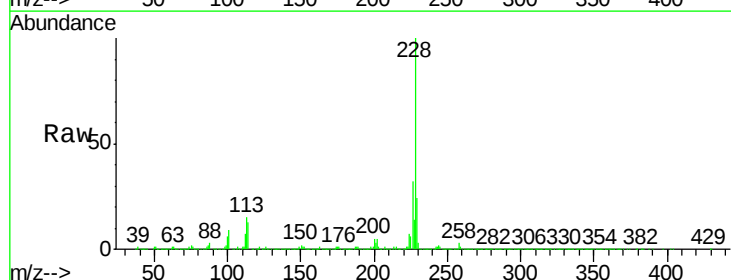
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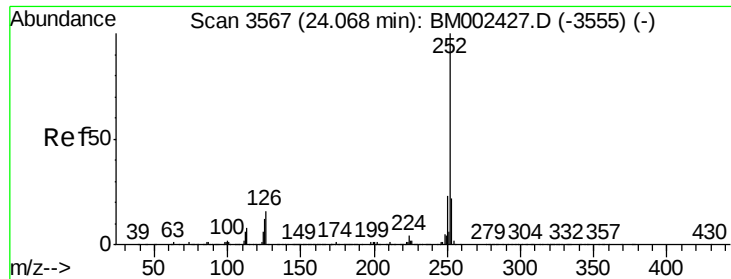
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#21
Chrysene
Concen: 300.29 ng/u1 m
RT: 22.30 min Scan# 3267
Delta R.T. 0.03 min
Lab File: BM002431.D
Acq: 15 Aug 2015 19:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	23.4	35.2
229	24.2	15.7	23.5#





#23

Benzo(b)fluoranthene

Concen: 305.09 ng/ul m

RT: 24.13 min Scan# 3578

Delta R.T. 0.06 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampleId :

D9D98

Tgt Ion:252 Resp:10296848

Ion Ratio Lower Upper

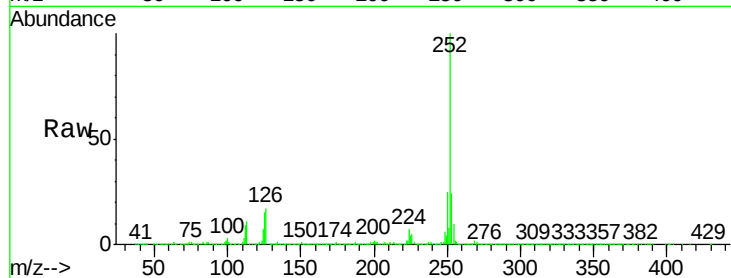
252 100

253 23.7 17.4 26.0

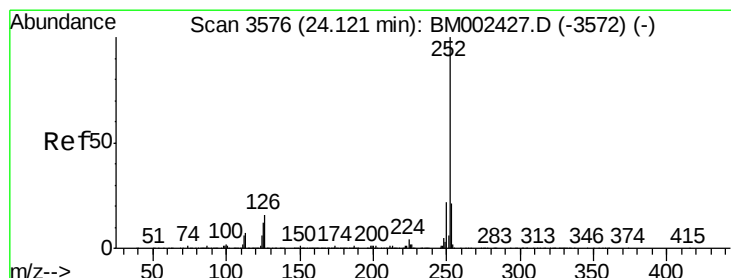
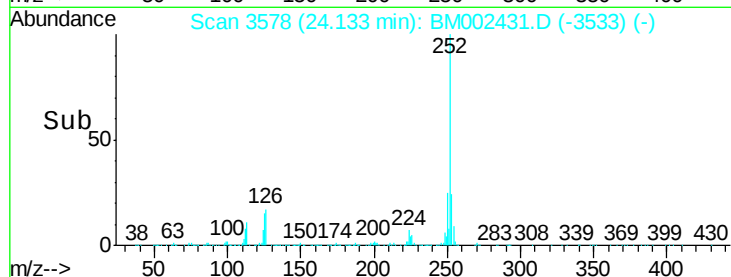
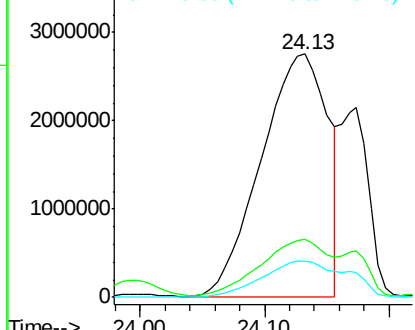
125 15.1 10.0 15.0#

Manual Integrations
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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



#24

Benzo(k)fluoranthene

Concen: 104.51 ng/ul m

RT: 24.17 min Scan# 3585

Delta R.T. 0.05 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

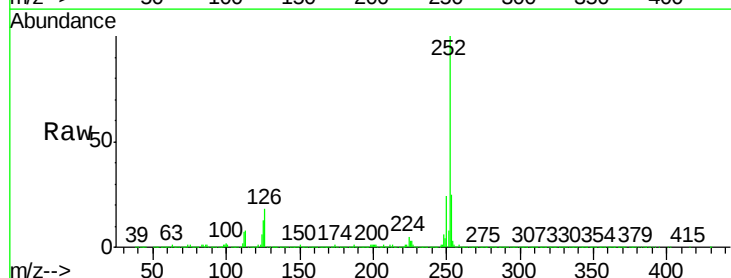
Tgt Ion:252 Resp: 3342625

Ion Ratio Lower Upper

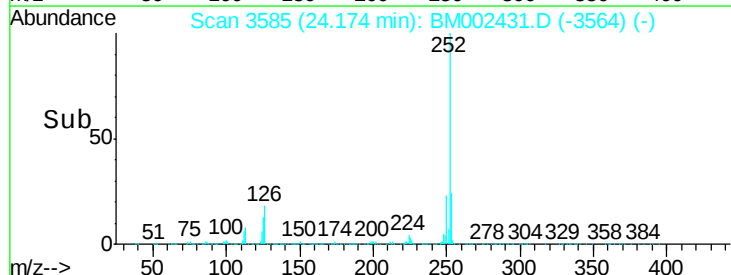
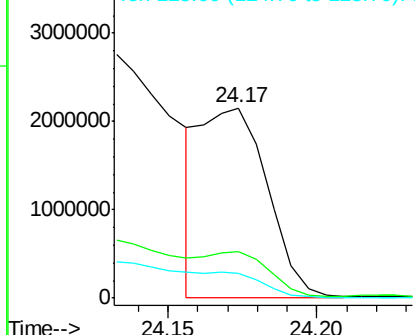
252 100

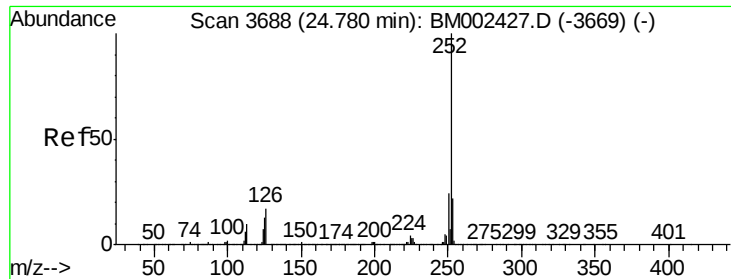
253 24.5 17.8 26.6

125 13.1 9.8 14.8



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





#26

Benzo(a)pyrene

Concen: 214.67 ng/ul m

RT: 24.84 min Scan# 3699

Delta R.T. 0.06 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampleId :

D9D98

Tgt Ion:252 Resp: 6920231

Ion Ratio Lower Upper

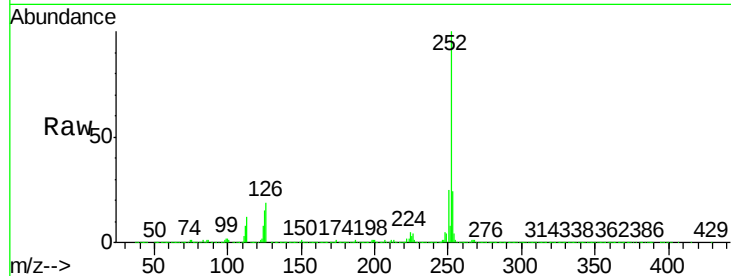
252 100

253 23.9 17.6 26.4

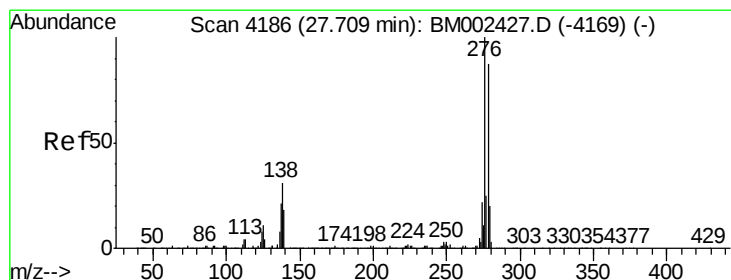
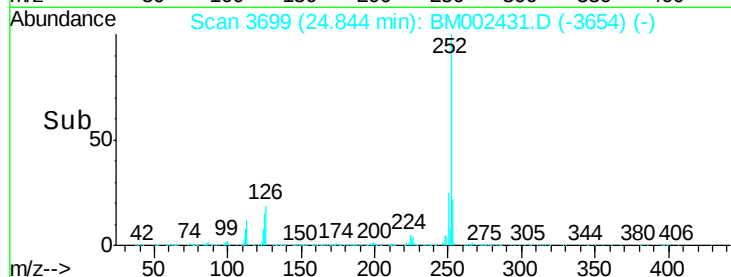
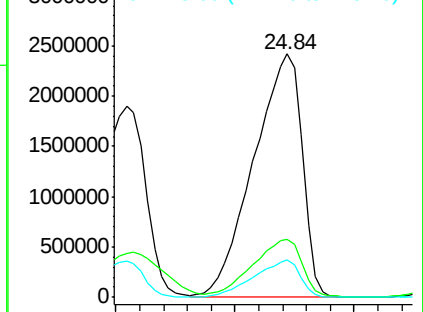
125 15.4 10.7 16.1

Manual Integrations
APPROVED

MMDadoda
8/17/2015 2:46:33 PM



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

Indeno(1,2,3-cd)pyrene

Concen: 155.25 ng/ul m

RT: 27.83 min Scan# 4206

Delta R.T. 0.12 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

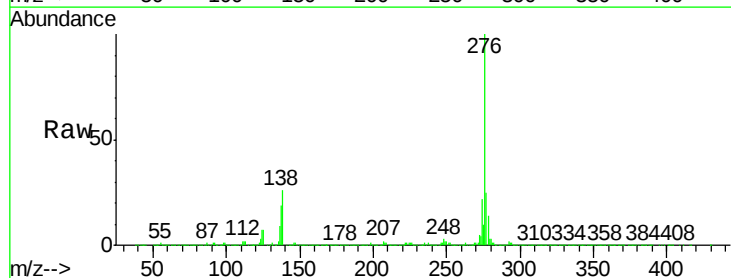
Tgt Ion:276 Resp: 5755650

Ion Ratio Lower Upper

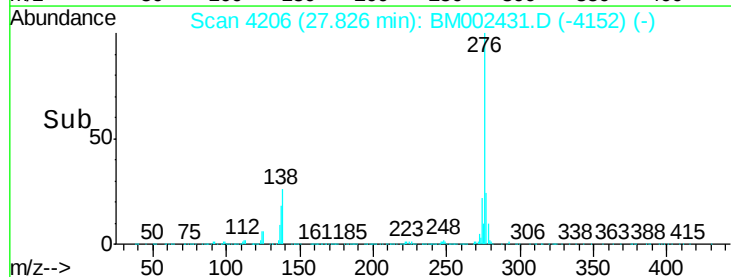
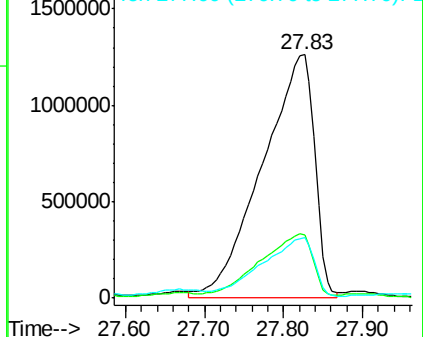
276 100

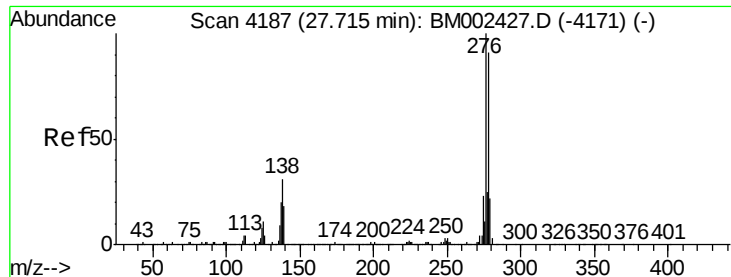
138 25.8 25.3 37.9

277 24.7 20.2 30.2



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





#28

Dibenzo(a,h)anthracene

Concen: 46.89 ng/ul m

RT: 27.80 min Scan# 4201

Delta R.T. 0.08 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

Instrument :

BNA_M

ClientSampleId :

D9D98

Tgt Ion:278 Resp: 1453054

Ion Ratio Lower Upper

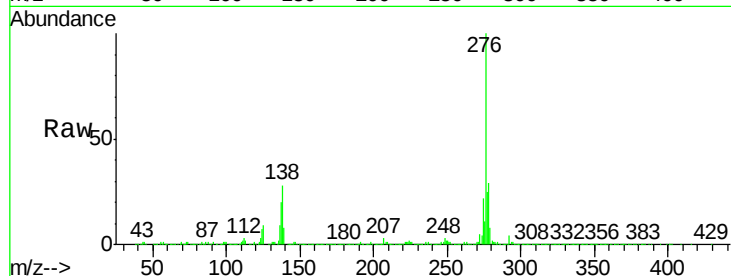
278 100

139 26.9 16.5 24.7#

279 27.0 18.8 28.2

Manual Integrations
APPROVED

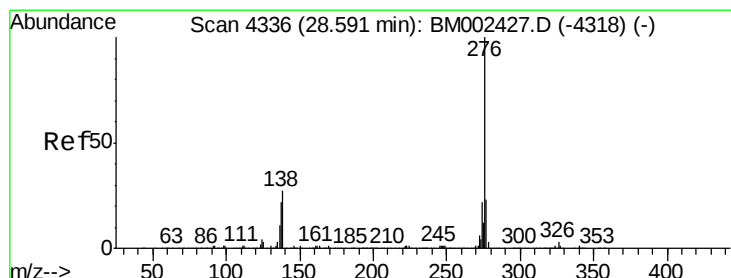
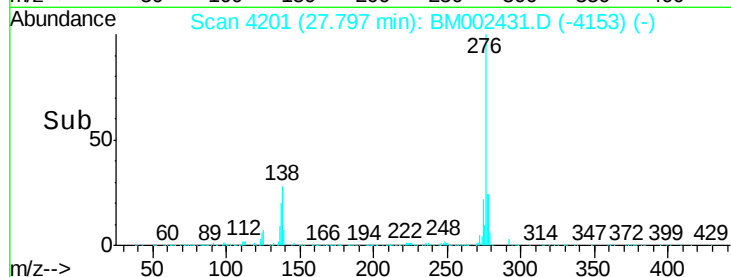
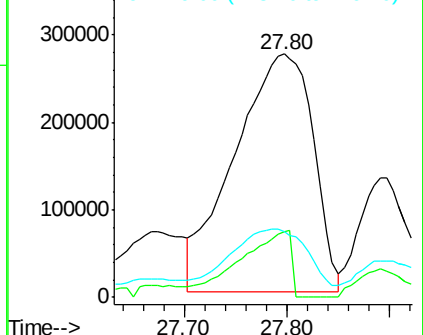
MMDadoda
8/17/2015 2:46:33 PM



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



#29

Benzo(g,h,i)perylene

Concen: 169.65 ng/ul m

RT: 28.72 min Scan# 4358

Delta R.T. 0.13 min

Lab File: BM002431.D

Acq: 15 Aug 2015 19:01

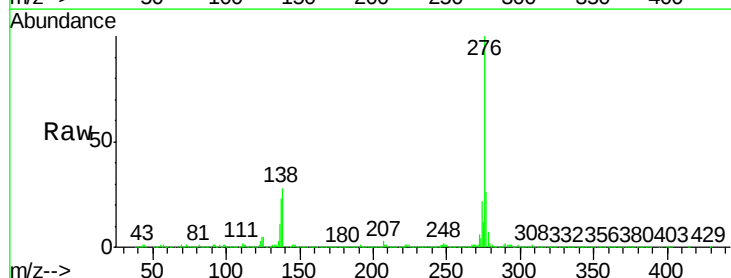
Tgt Ion:276 Resp: 5235269

Ion Ratio Lower Upper

276 100

138 28.0 21.0 31.6

277 26.1 19.2 28.8



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

