

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042318\  
 Data File : BM014793.D  
 Acq On : 24 Apr 2018 01:29  
 Operator : SJ/JU  
 Sample : J2431-12  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DASP3

Manual Integrations  
 APPROVED

Sohil  
 4/24/2018 7:13:35 PM

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Quant Time: Apr 24 04:12:17 2018  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Apr 24 02:13:13 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.53  | 152  | 428480   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.37 | 136  | 1753796  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 15.13 | 164  | 901920   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.85 | 188  | 1851094  | 20.00 | ng/ul | 0.01     |
| 75) Chrysene-d12          | 21.94 | 240  | 1965087  | 20.00 | ng/ul | 0.02     |
| 83) Perylene-d12          | 24.43 | 264  | 2021356  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.66  | 96  | 32322   | 3.29  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.65  | 99  | 634646  | 19.16 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.83  | 67  | 430911  | 20.29 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 8.05  | 132 | 518601  | 18.72 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.22  | 113 | 487867  | 18.47 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.71  | 128 | 245694  | 19.38 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.44 | 143 | 259284  | 20.53 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.97 | 165 | 466704  | 18.19 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.49 | 131 | 536875  | 21.20 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.52 | 166 | 1304158 | 18.52 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.83 | 160 | 1605358 | 18.47 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.29 | 143 | 191888  | 14.69 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 16.10 | 176 | 1115252 | 18.21 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.22 | 200 | 53547   | 5.35  | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.96 | 188 | 1623852 | 18.82 | ng/ul | 0.02 |
| 76) Pyrene-d10                 | 20.19 | 212 | 1791452 | 19.27 | ng/ul | 0.01 |
| 87) Benzo(a)pyrene-d12         | 24.27 | 264 | 1974834 | 19.89 | ng/ul | 0.01 |

## Target Compounds

|                                |       |     |           |         | Ovalue |    |
|--------------------------------|-------|-----|-----------|---------|--------|----|
| 28) Naphthalene                | 11.42 | 128 | 180179    | 2.108   | ng/ul# | 97 |
| 34) 2-Methylnaphthalene        | 12.99 | 142 | 294040    | 4.955   | ng/ul  | 98 |
| 40) 1,1'-Biphenyl              | 13.97 | 154 | 316834    | 4.368   | ng/ul# | 98 |
| 44) Dimethylphthalate          | 14.56 | 163 | 295748    | 4.345   | ng/ul# | 98 |
| 47) Acenaphthylene             | 14.86 | 152 | 648737    | 7.702   | ng/ul# | 96 |
| 49) Acenaphthene               | 15.19 | 153 | 2184050   | 36.487  | ng/ul  | 97 |
| 53) Dibenzofuran               | 15.52 | 168 | 3549332   | 42.701  | ng/ul  | 99 |
| 58) Fluorene                   | 16.17 | 166 | 7961690   | 118.623 | ng/ul  | 98 |
| 69) Phenanthrene               | 17.89 | 178 | 32584031m | 327.769 | ng/ul  |    |
| 71) Anthracene                 | 17.99 | 178 | 17837720m | 176.804 | ng/ul  |    |
| 72) Carbazole                  | 18.23 | 167 | 230399    | 2.677   | ng/ul# | 81 |
| 74) Fluoranthene               | 19.85 | 202 | 32454950m | 299.442 | ng/ul  |    |
| 77) Pyrene                     | 20.21 | 202 | 29403977m | 256.097 | ng/ul  |    |
| 78) Butylbenzylphthalate       | 21.04 | 149 | 629217    | 13.433  | ng/ul  | 90 |
| 80) Benzo(a)anthracene         | 21.92 | 228 | 20023579m | 174.248 | ng/ul  |    |
| 81) Bis(2-ethylhexyl)phthalate | 21.80 | 149 | 11168065  | 162.431 | ng/ul  | 93 |
| 82) Chrysene                   | 21.98 | 228 | 17374781  | 161.510 | ng/ul# | 75 |
| 84) Di-n-octyl phthalate       | 22.76 | 149 | 697012    | 5.995   | ng/ul# | 90 |
| 85) Benzo(b)fluoranthene       | 23.68 | 252 | 17860001  | 149.886 | ng/ul# | 94 |
| 86) Benzo(k)fluoranthene       | 23.72 | 252 | 6330852m  | 55.252  | ng/ul  |    |
| 88) Benzo(a)pyrene             | 24.33 | 252 | 11403092  | 100.885 | ng/ul# | 95 |
| 89) Indeno(1,2,3-cd)pyrene     | 27.01 | 276 | 4383258   | 32.056  | ng/ul# | 91 |
| 90) Dibenzo(a,h)anthracene     | 27.01 | 278 | 1274910   | 11.073  | ng/ul# | 92 |

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Sample : J2431-12  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DASP3

Manual Integrations  
APPROVED

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Quant Time: Apr 24 04:12:17 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 24 02:13:13 2018  
Response via : Initial Calibration

| Internal Standards       | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------|-------|------|----------|--------|--------|----------|
| 91) Benzo(q,h,i)perylene | 27.81 | 276  | 3470137  | 30.848 | ng/ul# | 89       |

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

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Acq On : 24 Apr 2018 01:29  
Operator : SJ/JU  
Sample : J2431-12  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

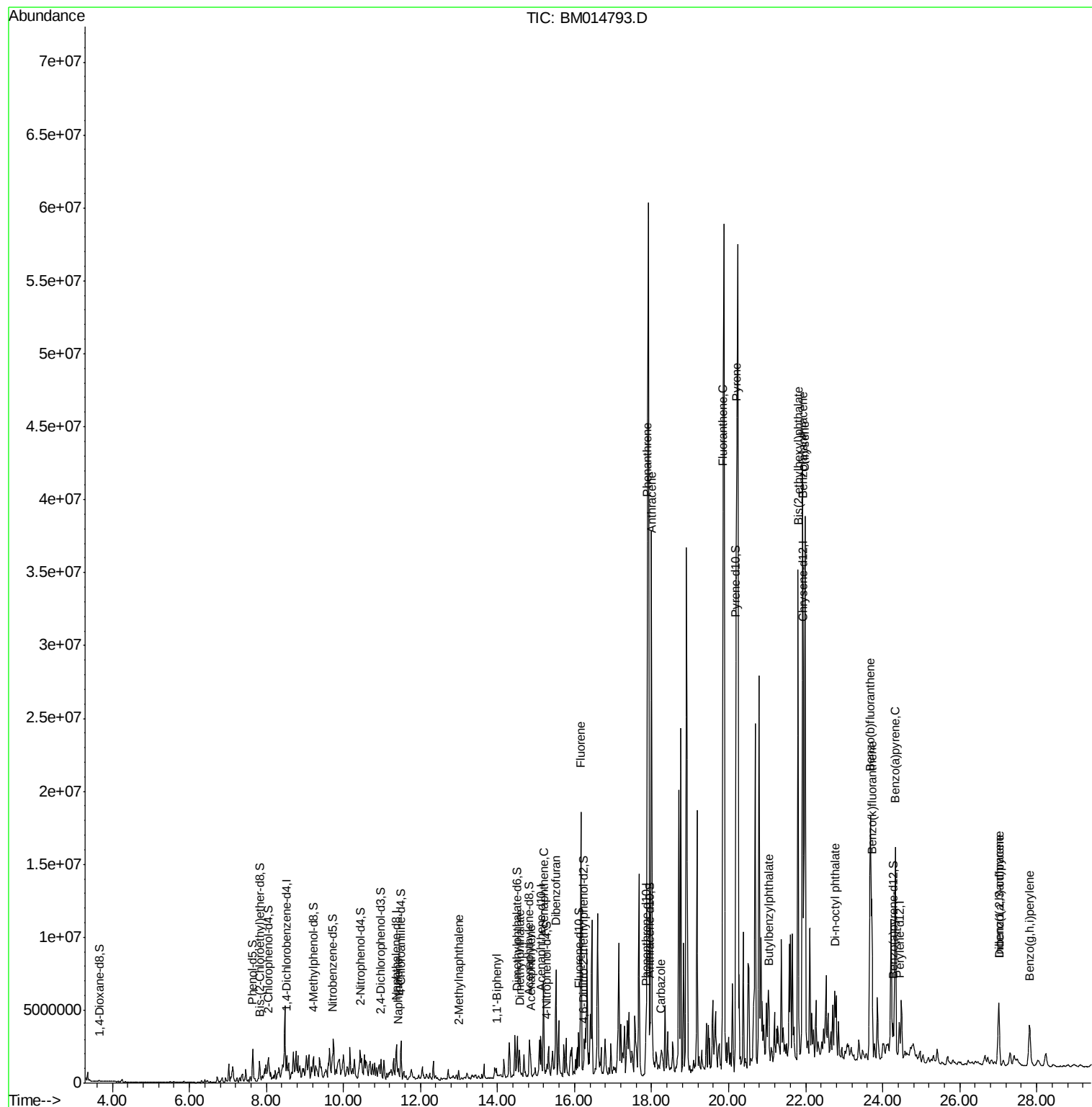
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

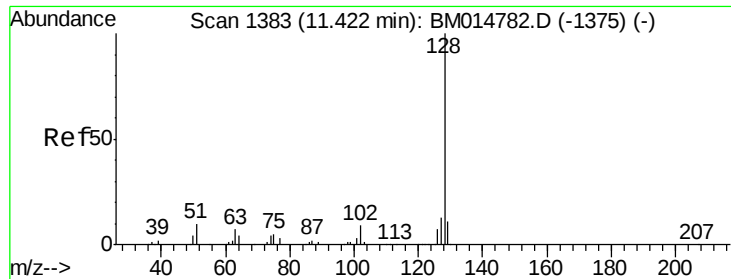
Quant Time: Apr 24 04:12:17 2018  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 24 02:13:13 2018  
Response via : Initial Calibration

Manual Integrations  
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#28  
Naphthalene  
Concen: 2.108 ng/ul  
RT: 11.42 min Scan# 1383  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

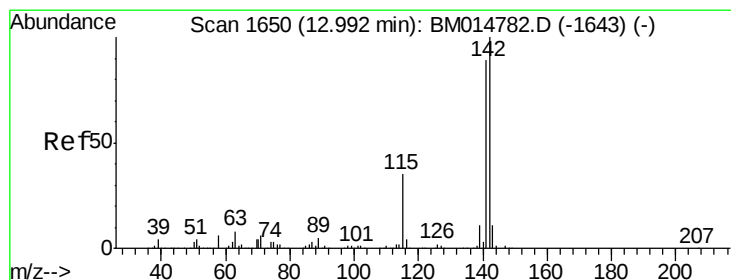
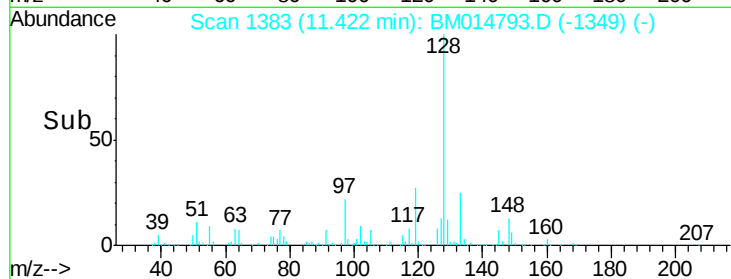
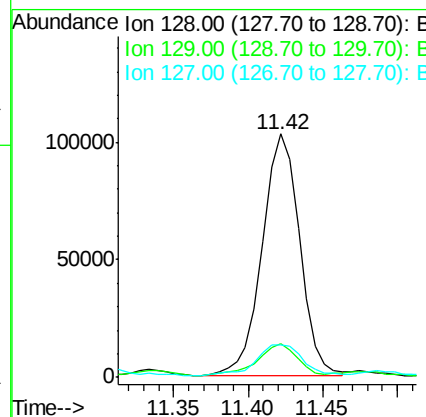
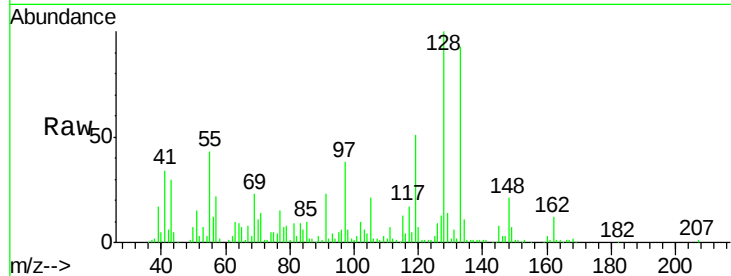
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.6  | 8.8   | 13.2# |
| 127     | 13.5  | 10.6  | 16.0  |

Manual Integrations  
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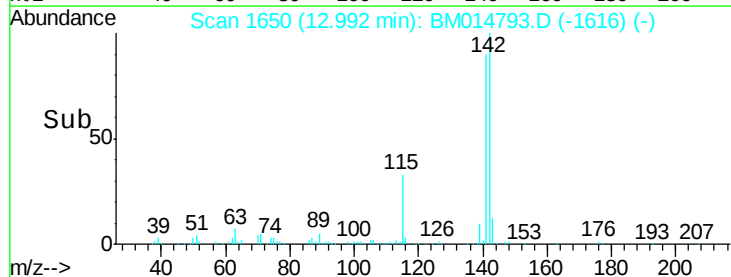
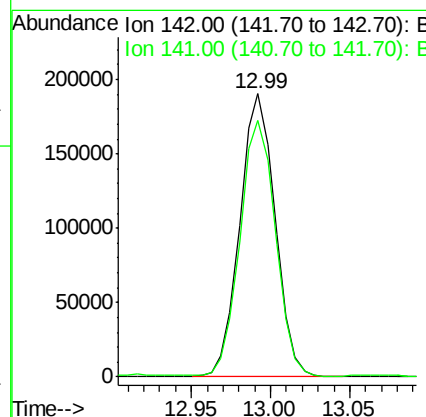
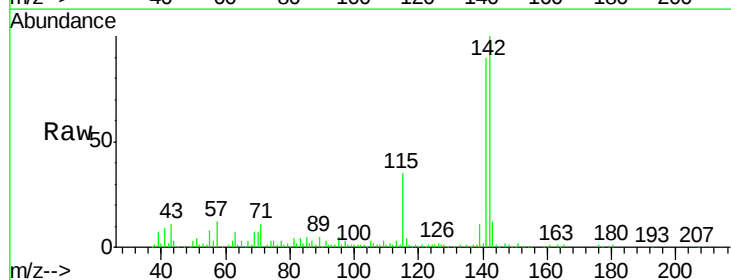
Sohil  
4/24/2018 7:13:35 PM

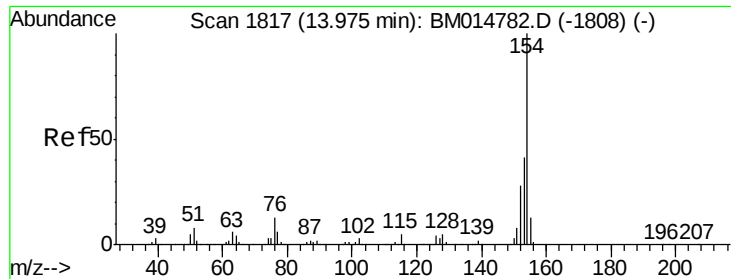
Sohil  
4/24/2018 7:13:35 PM



#34  
2-Methylnaphthalene  
Concen: 4.955 ng/ul  
RT: 12.99 min Scan# 1650  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.4  | 74.1  | 111.1 |





#40  
1,1'-Biphenyl  
Concen: 4.368 ng/ul  
RT: 13.97 min Scan# 1817  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

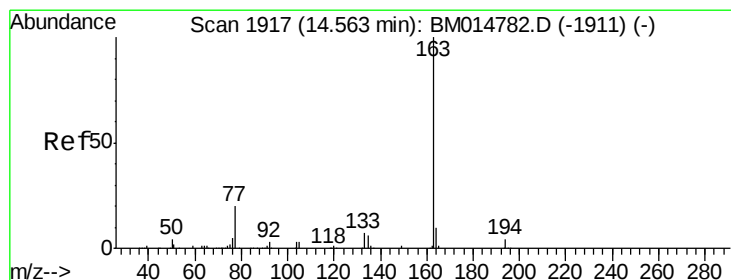
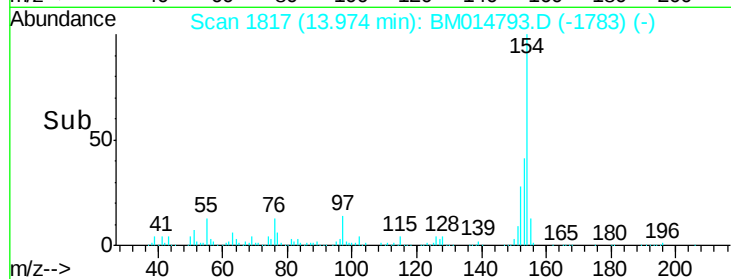
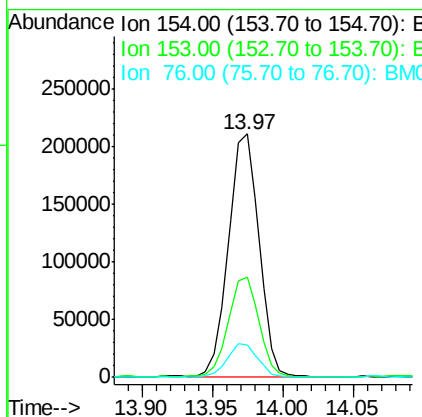
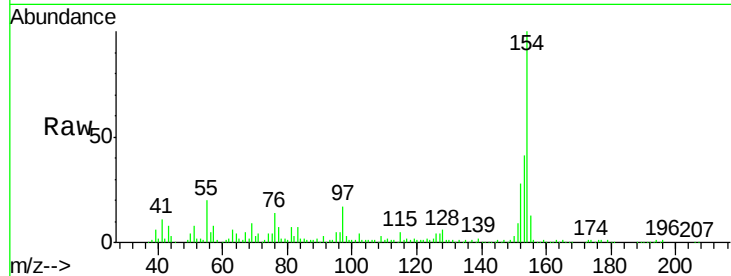
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.3  | 32.6  | 48.8  |
| 76      | 13.6  | 8.5   | 12.7  |

Manual Integrations  
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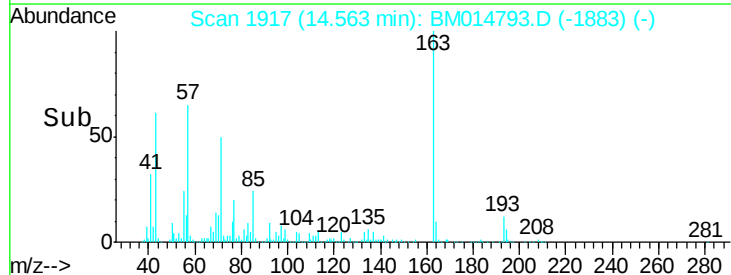
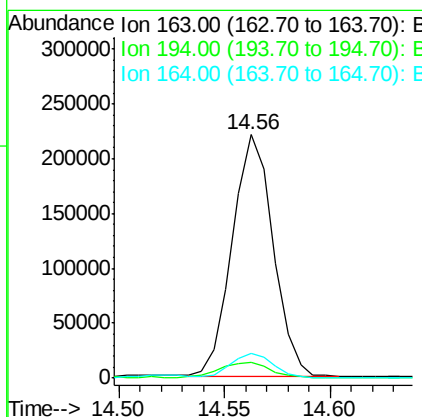
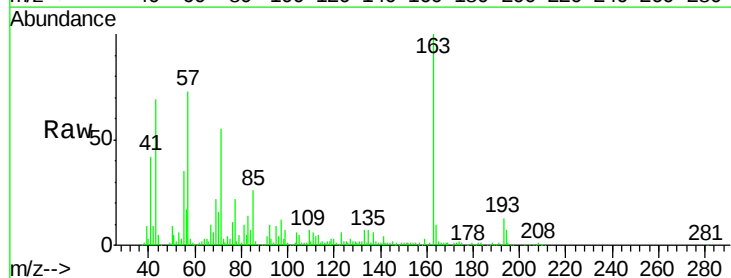
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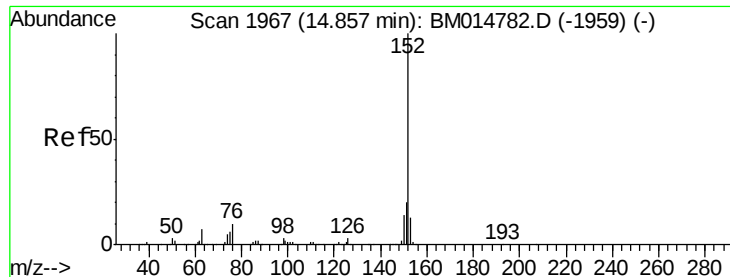
Sohil  
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#44  
Dimethylphthalate  
Concen: 4.345 ng/ul  
RT: 14.56 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 6.6   | 3.5   | 5.3   |
| 164     | 10.1  | 8.2   | 12.4  |





#47

Acenaphthylene

Concen: 7.702 ng/ul

RT: 14.86 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

Instrument :

BNA\_M

ClientSampled :

DASP3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 648737 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.7  | 16.3  | 24.5   |
| 153       | 16.3  | 10.2  | 15.4   |

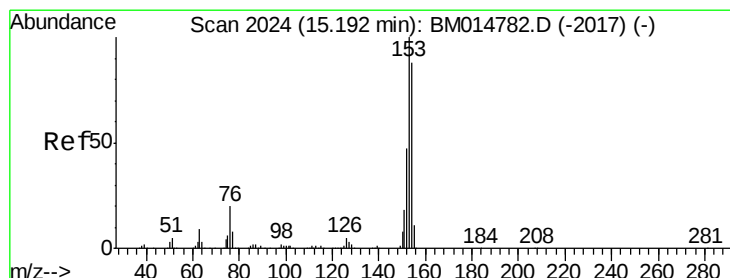
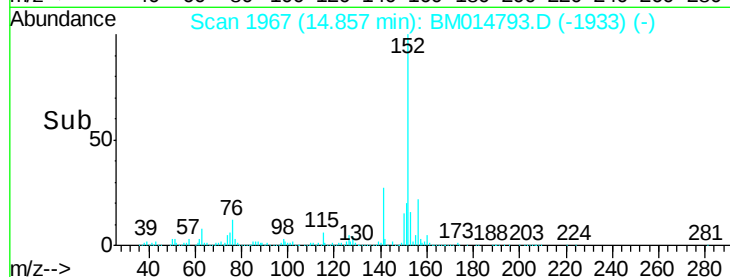
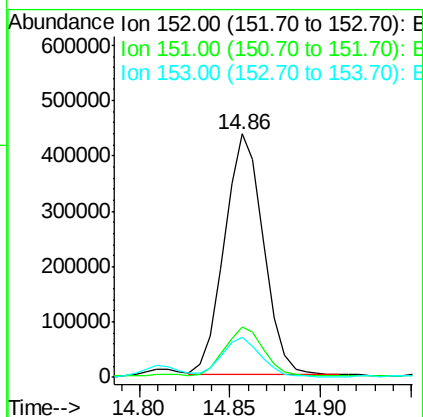
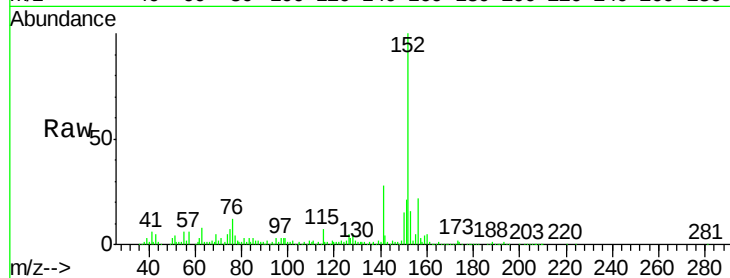
Manual Integrations  
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#49

Acenaphthene

Concen: 36.487 ng/ul

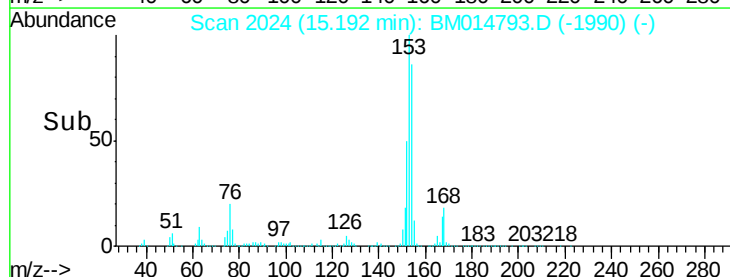
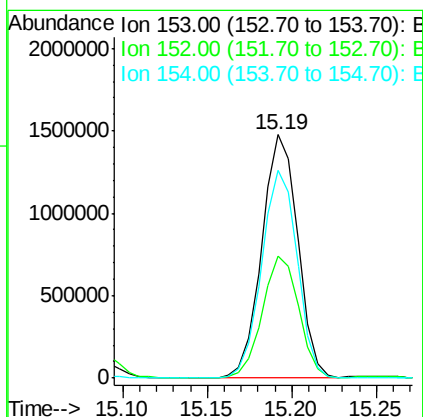
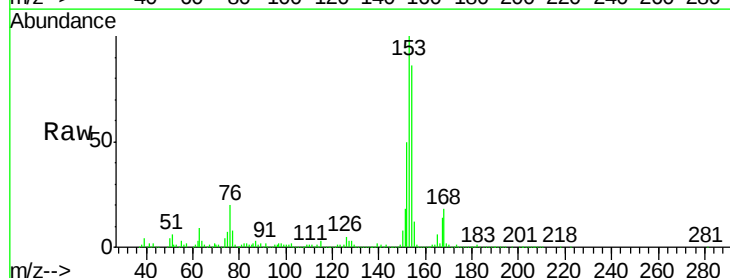
RT: 15.19 min Scan# 2024

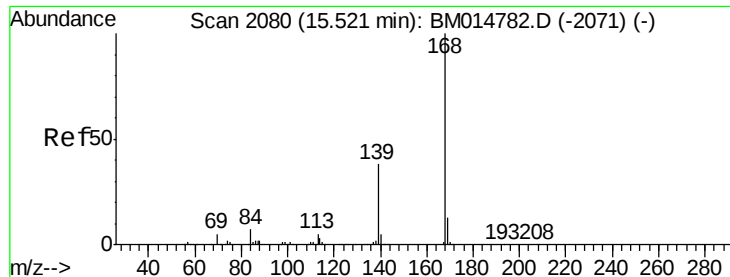
Delta R.T. -0.00 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 153   | Resp: | 2184050 |
| Ion Ratio | Lower | Upper |         |
| 153       | 100   |       |         |
| 152       | 50.1  | 37.6  | 56.4    |
| 154       | 85.6  | 70.4  | 105.6   |





#53  
Dibenzenofuran  
Concen: 42.701 ng/ul  
RT: 15.52 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

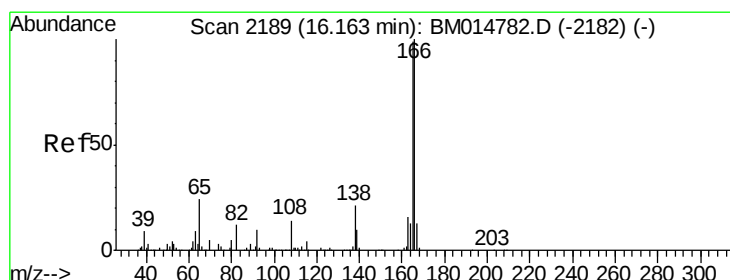
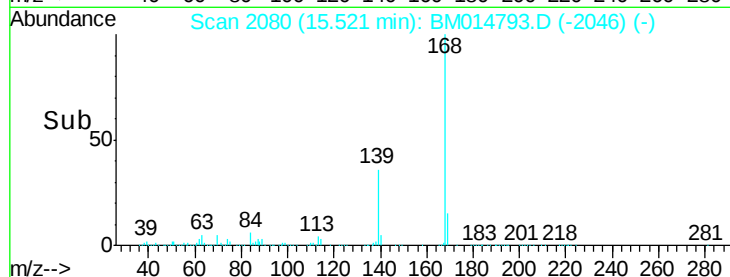
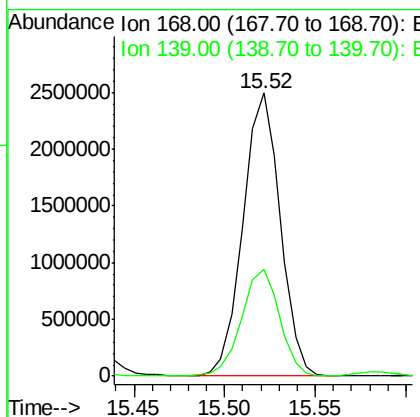
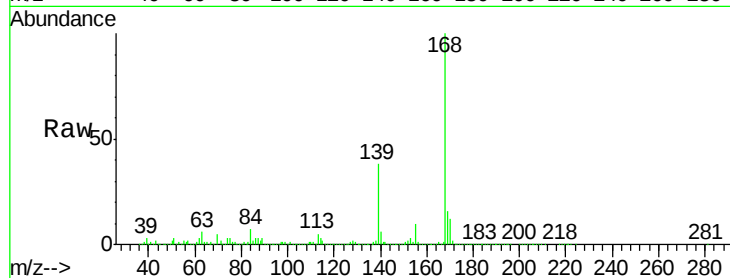
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

Tot Ion:168 Resp: 3549332  
Ion Ratio Lower Upper  
168 100  
139 37.8 30.8 46.2

Manual Integrations  
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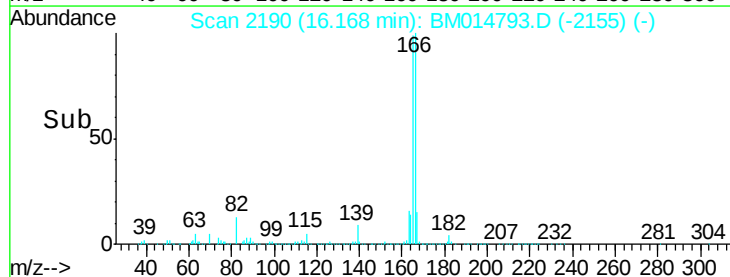
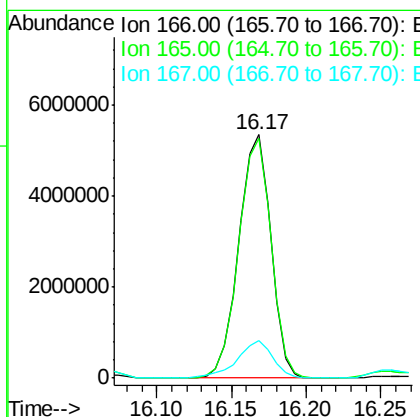
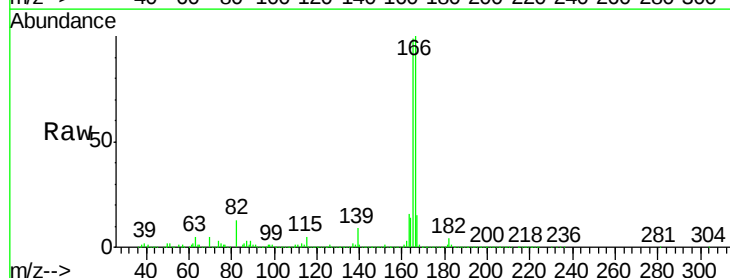
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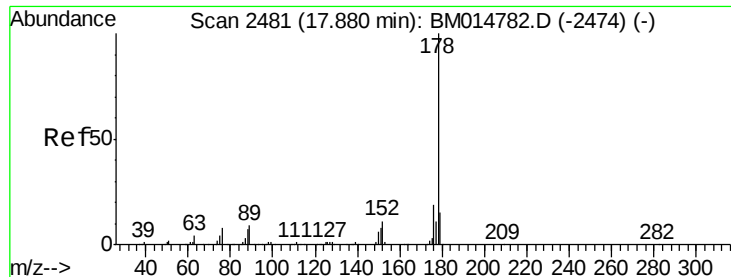
Sohil  
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#58  
Fluorene  
Concen: 118.623 ng/ul  
RT: 16.17 min Scan# 2190  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

Tgt Ion:166 Resp: 7961690  
Ion Ratio Lower Upper  
166 100  
165 98.7 77.9 116.9  
167 15.3 10.6 16.0





#69  
Phenanthrene  
Concen: 327.769 ng/ul m  
RT: 17.89 min Scan# 2482  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

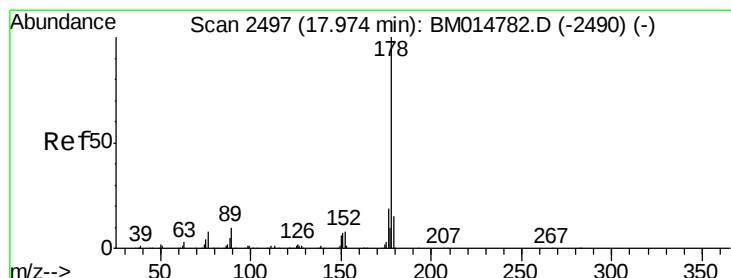
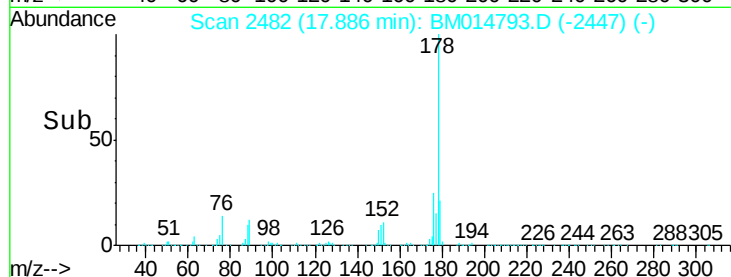
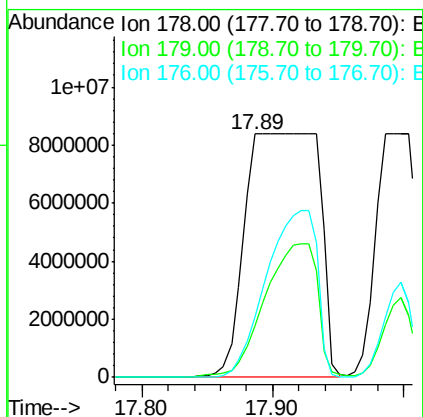
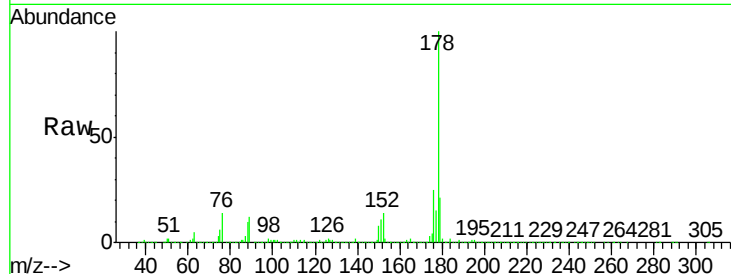
Instrument :  
BNA\_M  
ClientSampleId :  
DASP3

Tot Ion:178 Resp:32584031  
Ion Ratio Lower Upper  
178 100  
179 21.4 12.6 19.0#  
176 25.1 14.9 22.3#

Manual Integrations  
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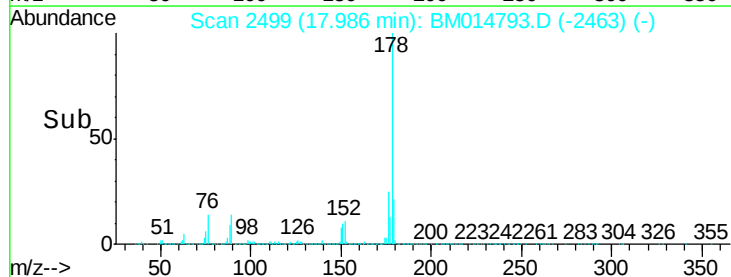
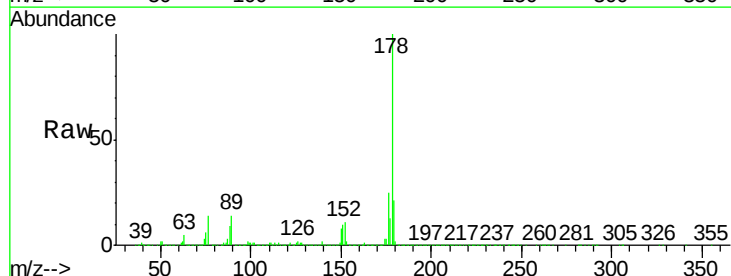
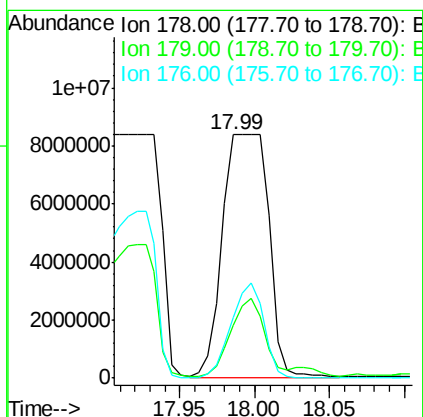
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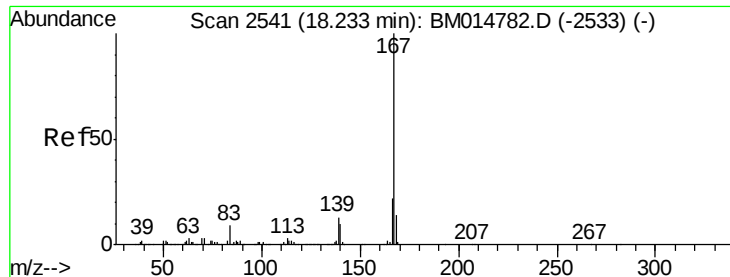
Sohil  
4/24/2018 7:13:35 PM



#71  
Anthracene  
Concen: 176.804 ng/ul m  
RT: 17.99 min Scan# 2499  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

Tgt Ion:178 Resp:17837720  
Ion Ratio Lower Upper  
178 100  
179 21.5 11.7 17.5#  
176 25.1 14.6 21.8#





#72

Carbazole

Concen: 2.677 ng/ul

RT: 18.23 min Scan# 2541

Delta R.T. -0.00 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

Instrument :

BNA\_M

ClientSampleId :

DASP3

Tot Ion:167 Resp: 230399  
Ion Ratio Lower Upper

167 100

166 31.5 17.1 25.7#

139 17.9 10.0 15.0#

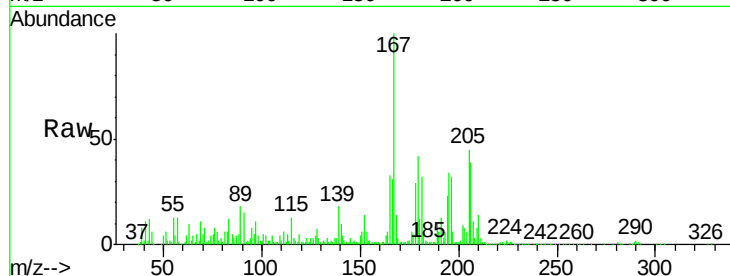
Manual Integrations  
APPROVED

Sohil

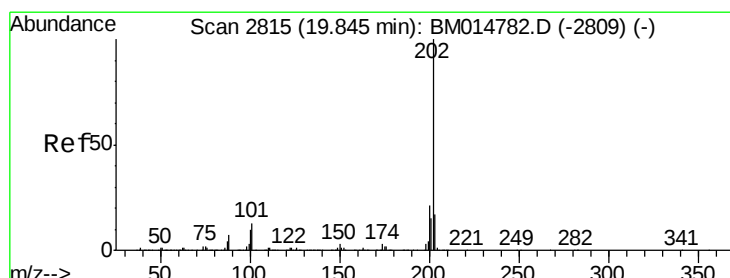
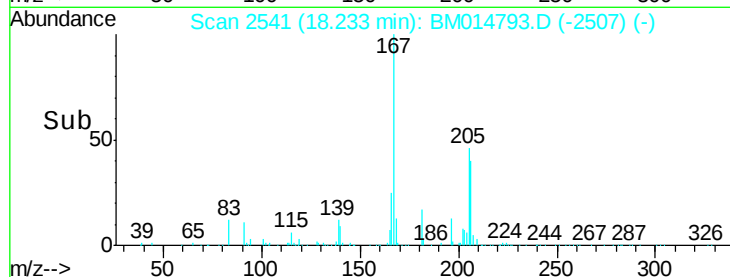
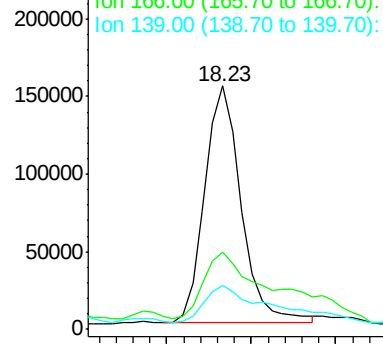
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4/24/2018 7:13:35 PM



Abundance Ion 167.00 (166.70 to 167.70): E  
Ion 166.00 (165.70 to 166.70): E  
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 299.442 ng/ul m

RT: 19.85 min Scan# 2816

Delta R.T. 0.01 min

Lab File: BM014793.D

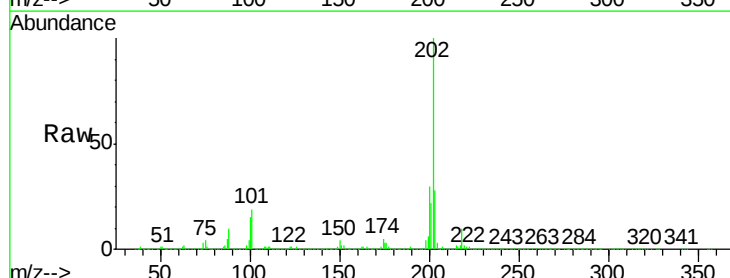
Acq: 24 Apr 2018 01:29

Tgt Ion:202 Resp:32454950  
Ion Ratio Lower Upper

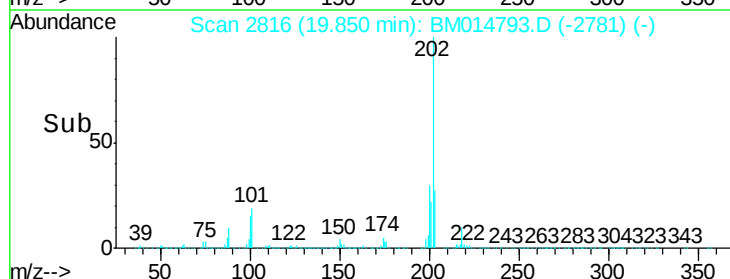
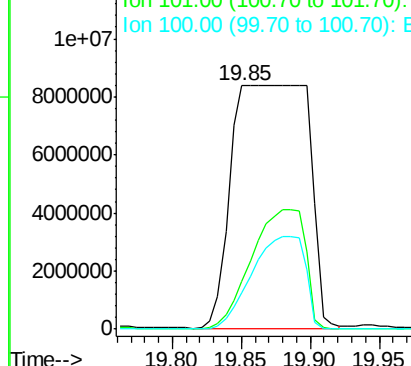
202 100

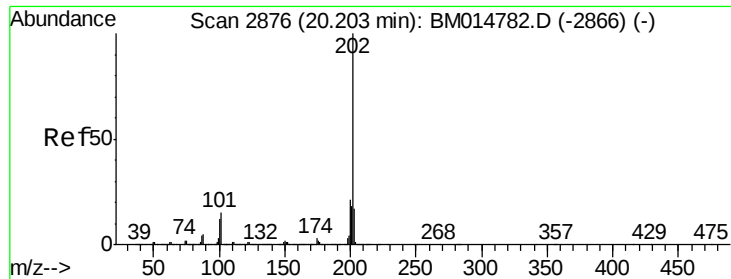
101 19.5 4.6 7.0#

100 14.9 3.4 5.2#



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

Pvrene

Concen: 256.097 ng/ul m

RT: 20.21 min Scan# 2877

Delta R.T. 0.01 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

Instrument :

BNA\_M

ClientSampled :

DASP3

Tot Ion:202 Resp:29403977

Ion Ratio Lower Upper

202 100

101 31.2 5.1 7.7#

100 20.4 4.9 7.3#

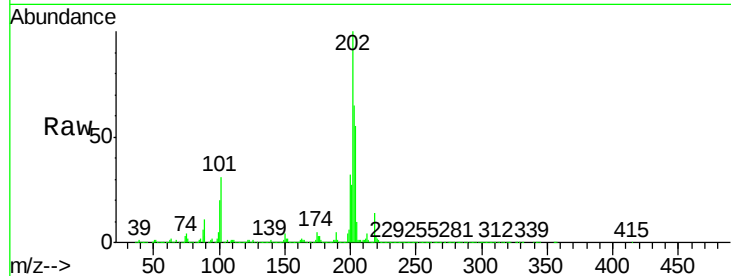
Manual Integrations  
APPROVED

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Sohil

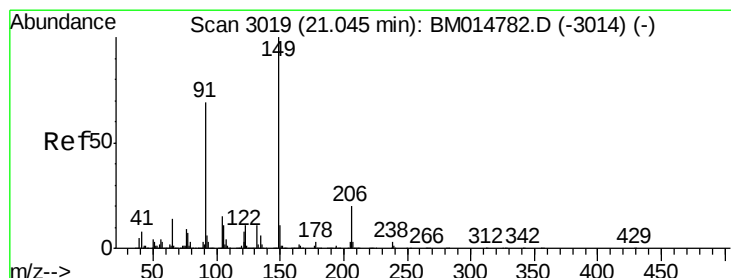
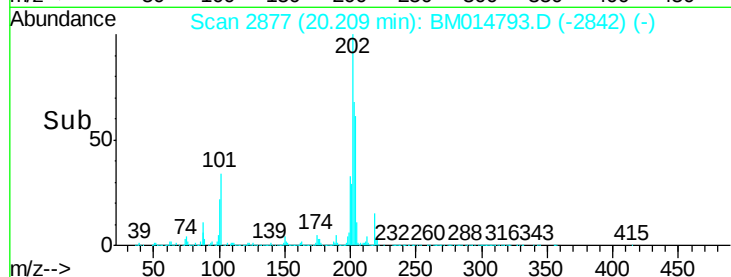
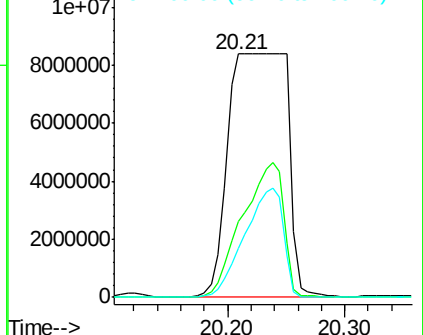
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#78

Butylbenzylphthalate

Concen: 13.433 ng/ul

RT: 21.04 min Scan# 3019

Delta R.T. -0.00 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

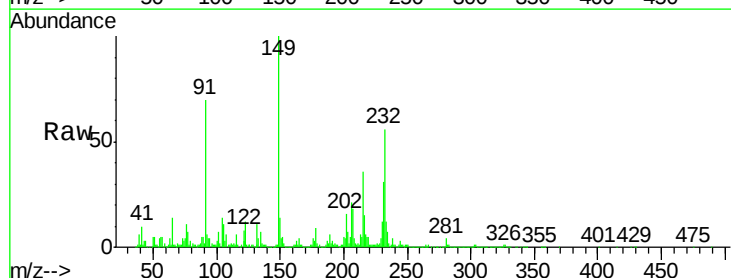
Tgt Ion:149 Resp: 629217

Ion Ratio Lower Upper

149 100

91 70.1 62.7 94.1

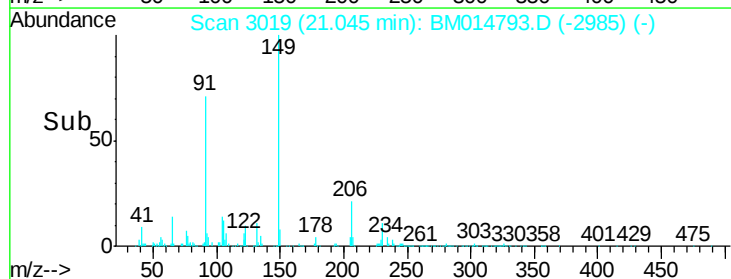
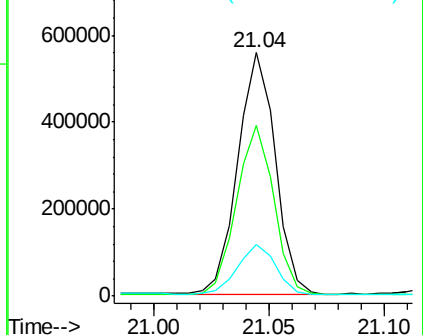
206 21.0 20.8 31.2

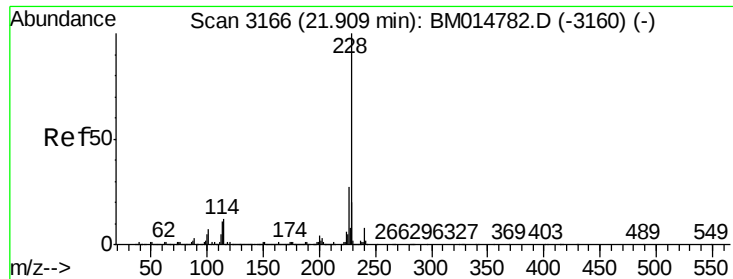


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): E

Ion 206.00 (205.70 to 206.70): E





#80  
Benzo(a)anthracene  
Concen: 174.248 ng/ul m  
RT: 21.92 min Scan# 3167  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

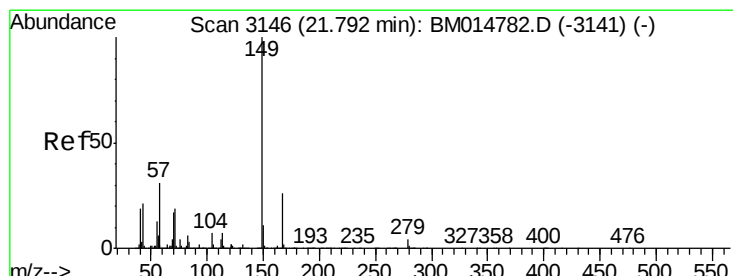
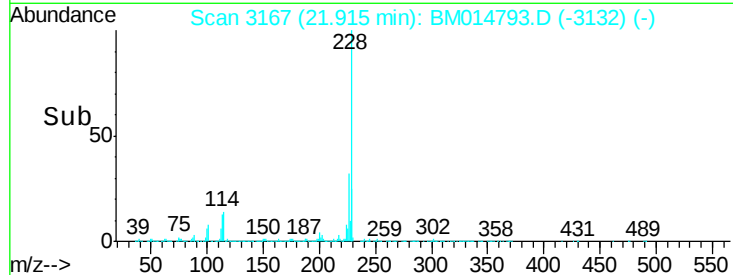
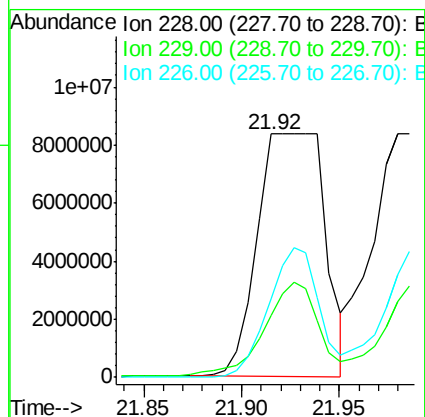
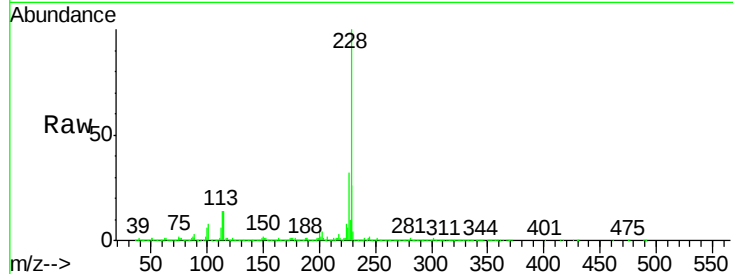
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

Tot Ion:228 Resp:20023579  
Ion Ratio Lower Upper  
228 100  
229 25.6 15.4 23.0#  
226 32.2 21.4 32.0#

Manual Integrations  
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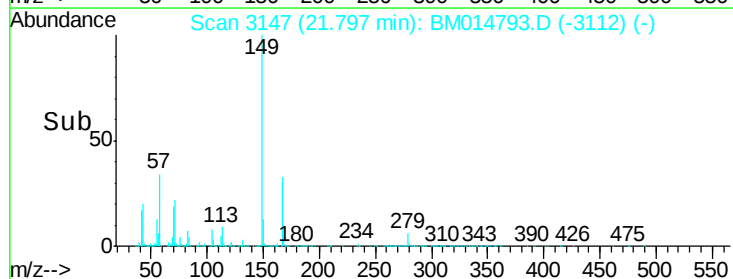
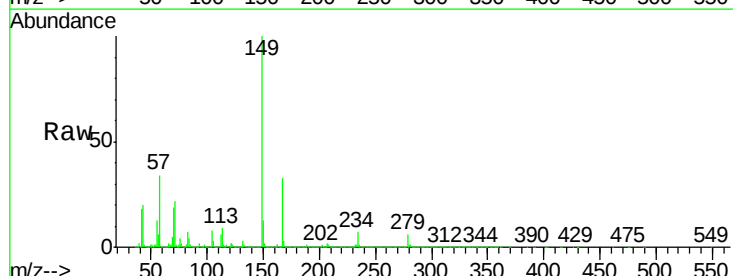
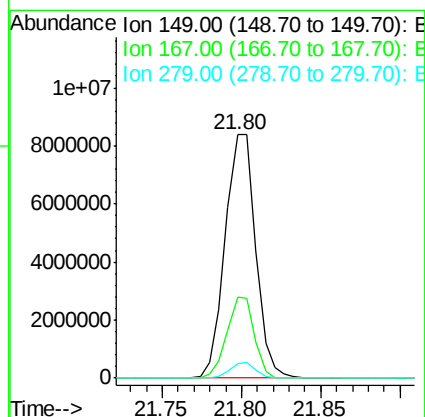
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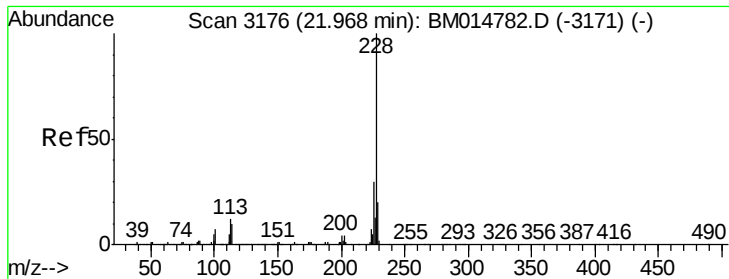
Sohil  
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#81  
Bis(2-ethylhexyl)phthalate  
Concen: 162.431 ng/ul  
RT: 21.80 min Scan# 3147  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

Tgt Ion:149 Resp:11168065  
Ion Ratio Lower Upper  
149 100  
167 33.1 22.8 34.2  
279 5.9 4.9 7.3





#82

Chrvsene

Concen: 161.510 ng/ul

RT: 21.98 min Scan# 3178

Delta R.T. 0.01 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

Instrument :

BNA\_M

ClientSampleId :

DASP3

Tot Ion:228 Resp:17374781

Ion Ratio Lower Upper

228 100

226 42.2 23.4 35.2#

229 31.0 15.5 23.3#

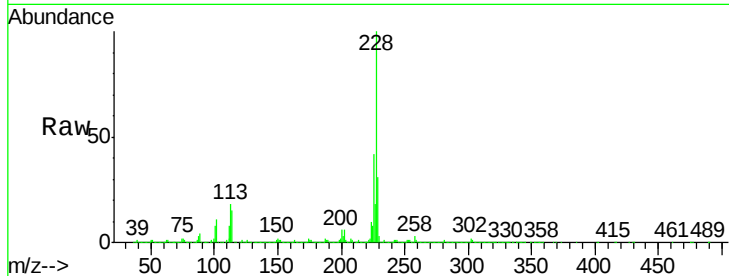
Manual Integrations  
APPROVED

Sohil

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Sohil

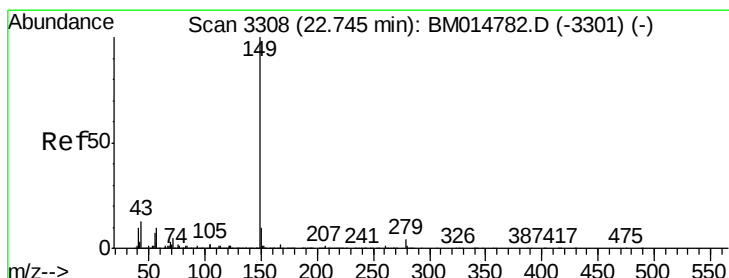
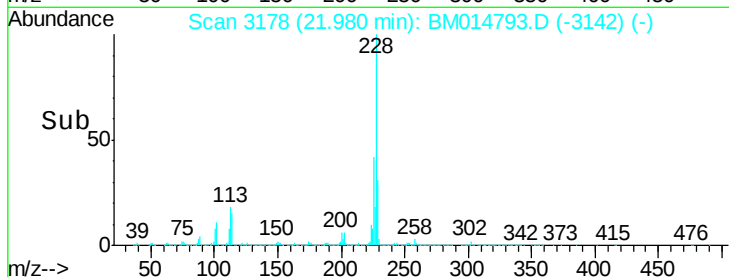
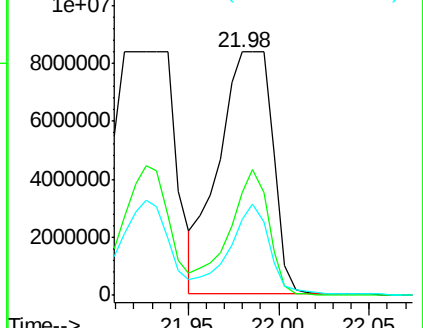
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Di-n-octyl phthalate

Concen: 5.995 ng/ul

RT: 22.76 min Scan# 3310

Delta R.T. 0.01 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

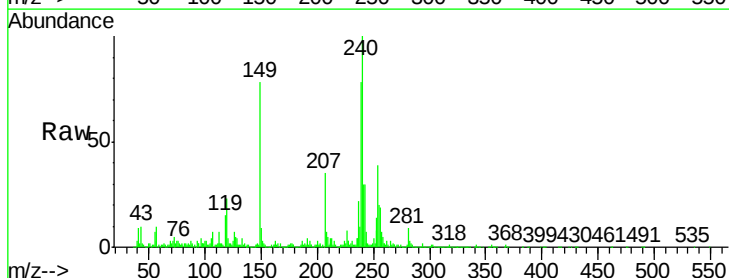
Tgt Ion:149 Resp: 697012

Ion Ratio Lower Upper

149 100

167 2.1 1.3 1.9#

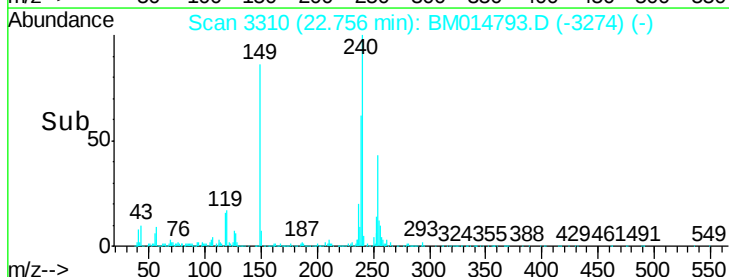
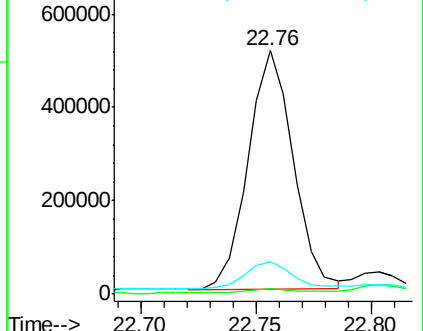
43 13.3 7.3 10.9#

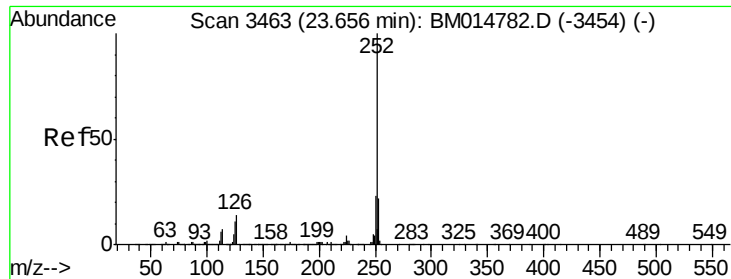


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BM0





#85

Benzo(b)fluoranthene

Concen: 149.886 ng/ul

RT: 23.68 min Scan# 3467

Delta R.T. 0.02 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

Instrument :

BNA\_M

ClientSampleId :

DASP3

Tot Ion:252 Resp:17860001

Ion Ratio Lower Upper

252 100

253 23.5 17.9 26.9

125 11.9 3.6 5.4#

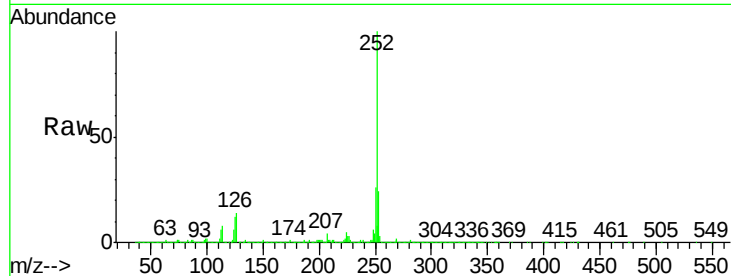
Manual Integrations  
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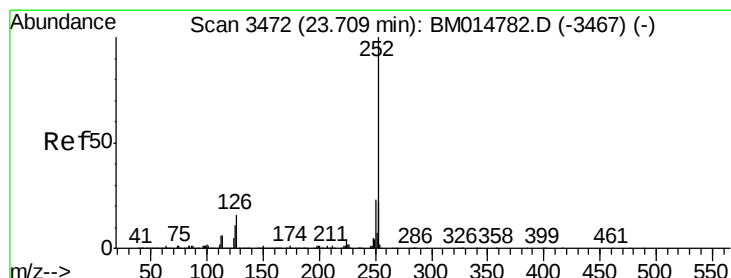
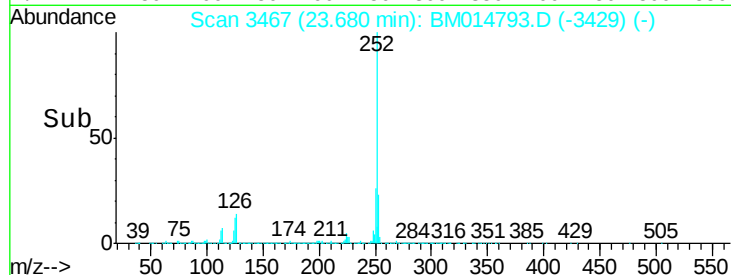
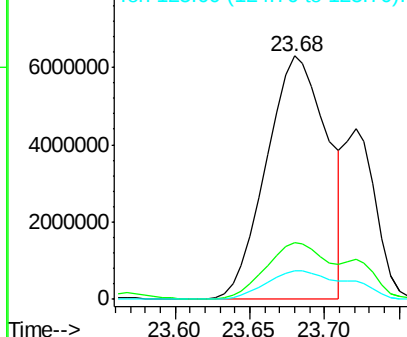
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#86

Benzo(k)fluoranthene

Concen: 55.252 ng/ul m

RT: 23.72 min Scan# 3474

Delta R.T. 0.01 min

Lab File: BM014793.D

Acq: 24 Apr 2018 01:29

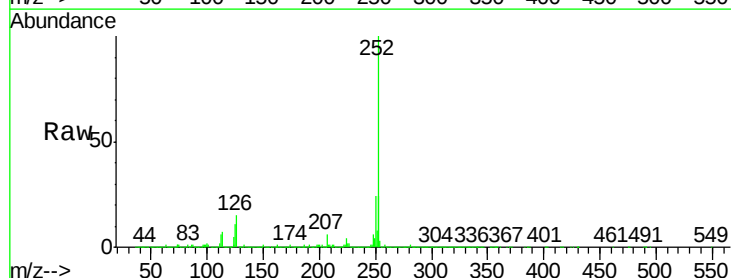
Tgt Ion:252 Resp: 6330852

Ion Ratio Lower Upper

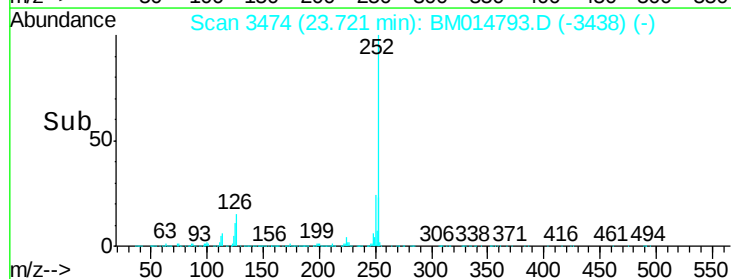
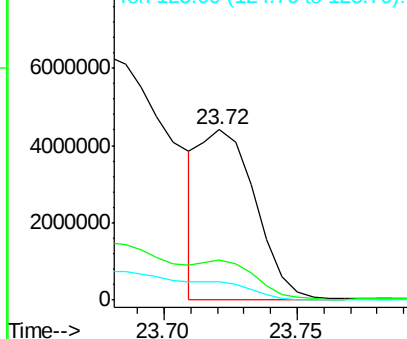
252 100

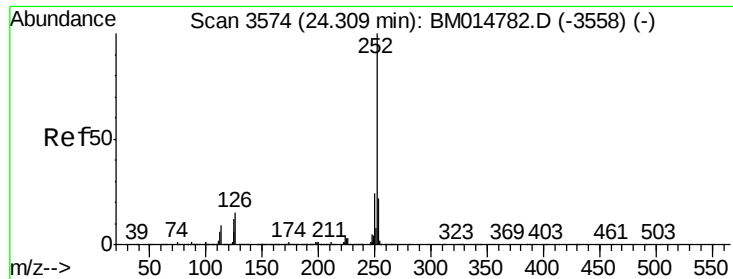
253 23.6 17.1 25.7

125 10.9 3.4 5.2#



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





#88  
Benzo(a)pyrene  
Concen: 100.885 ng/ul  
RT: 24.33 min Scan# 3578  
Delta R.T. 0.02 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

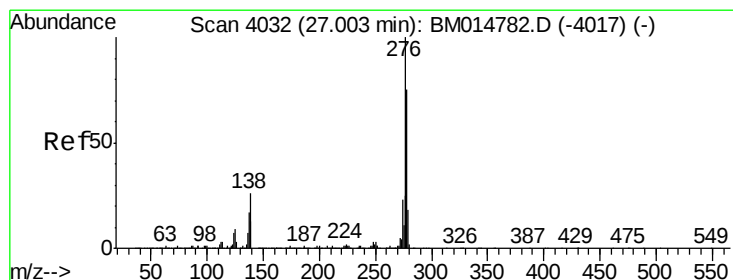
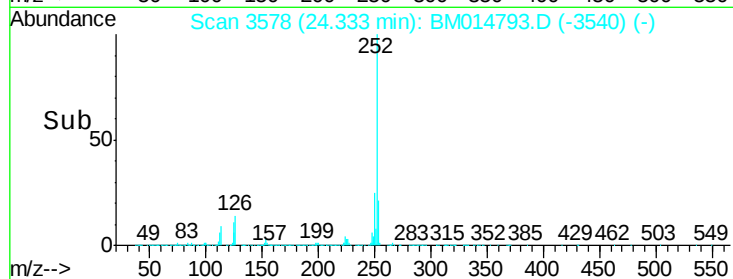
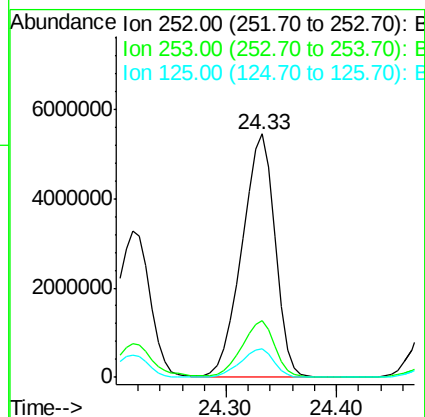
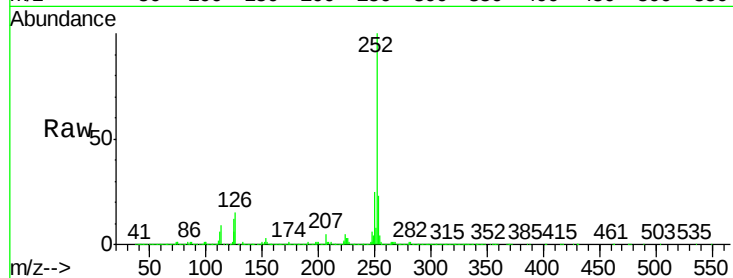
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

Tot Ion:252 Resp:11403092  
Ion Ratio Lower Upper  
252 100  
253 23.2 18.2 27.2  
125 11.8 4.0 6.0#

Manual Integrations  
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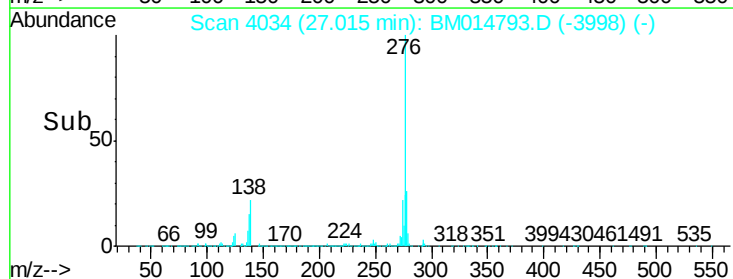
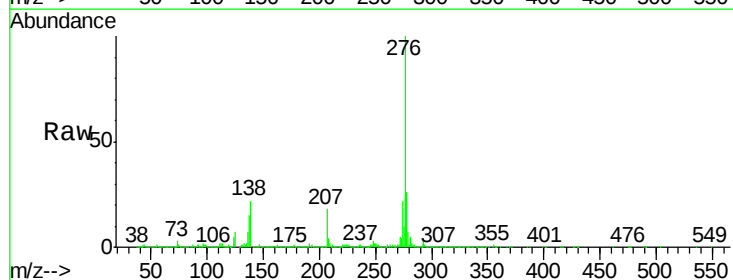
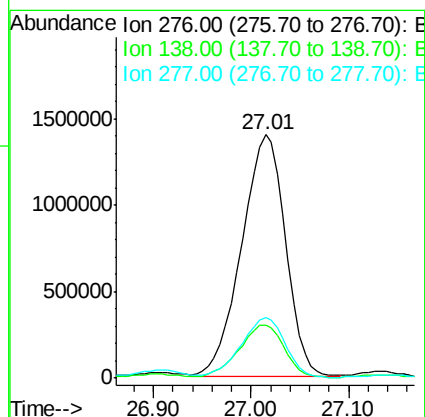
Sohil  
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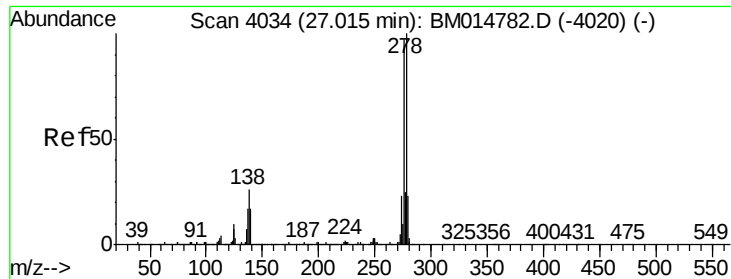
Sohil  
4/24/2018 7:13:35 PM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 32.056 ng/ul  
RT: 27.01 min Scan# 4034  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

Tgt Ion:276 Resp: 4383258  
Ion Ratio Lower Upper  
276 100  
138 22.0 9.3 13.9#  
277 24.8 19.9 29.9





#90  
Dibenzo(a,h)anthracene  
Concen: 11.073 ng/ul  
RT: 27.01 min Scan# 4034  
Delta R.T. -0.00 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

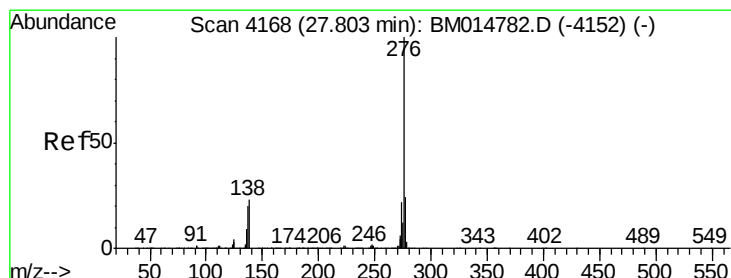
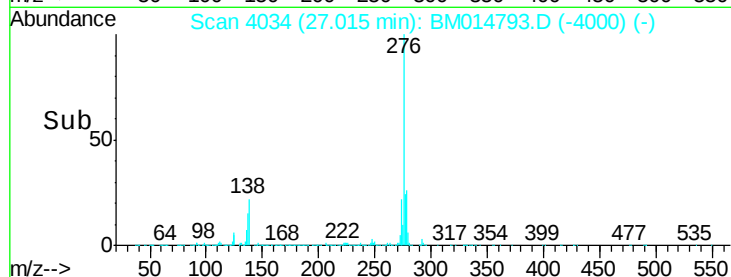
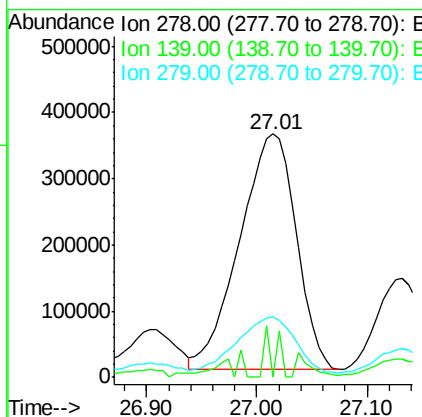
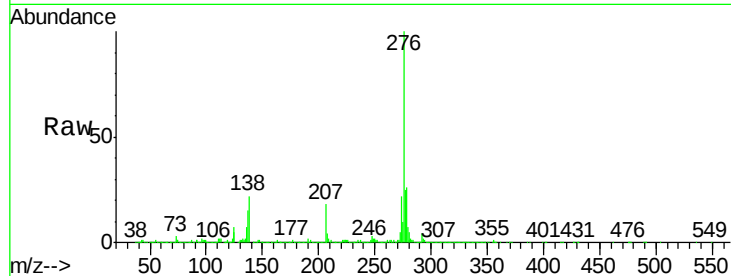
Instrument :  
BNA\_M  
ClientSampled :  
DASP3

Tot Ion:278 Resp: 1274910  
Ion Ratio Lower Upper  
278 100  
139 0.0 5.8 8.8#  
279 24.9 18.6 27.8

Manual Integrations  
APPROVED

Sohil  
4/24/2018 7:13:35 PM

Sohil  
4/24/2018 7:13:35 PM



#91  
Benzo(g,h,i)perylene  
Concen: 30.848 ng/ul  
RT: 27.81 min Scan# 4170  
Delta R.T. 0.01 min  
Lab File: BM014793.D  
Acq: 24 Apr 2018 01:29

Tgt Ion:276 Resp: 3470137  
Ion Ratio Lower Upper  
276 100  
138 22.4 8.5 12.7#  
277 24.2 18.6 28.0

