

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
 Data File : BM013638.D  
 Acq On : 18 Jan 2018 13:29  
 Operator : SJ/JU  
 Sample : J1097-04  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DAJM4

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M

Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.158       | 26            | 29          | 37           | rVB2     | 37667          | 53802         | 1.41%           | 0.140%        |
| 2         | 6.304       | 559           | 564         | 570          | rBV      | 59343          | 88702         | 2.33%           | 0.231%        |
| 3         | 6.798       | 642           | 648         | 658          | rBV      | 605806         | 1064819       | 27.98%          | 2.778%        |
| 4         | 6.957       | 670           | 675         | 684          | rBV      | 433795         | 679416        | 17.85%          | 1.773%        |
| 5         | 7.151       | 702           | 708         | 718          | rBV      | 639598         | 1003523       | 26.37%          | 2.618%        |
| 6         | 7.616       | 781           | 787         | 797          | rBV      | 460755         | 735838        | 19.33%          | 1.920%        |
| 7         | 8.328       | 901           | 908         | 918          | rBV      | 724049         | 1179575       | 30.99%          | 3.077%        |
| 8         | 8.769       | 977           | 983         | 993          | rBV      | 615264         | 1020705       | 26.82%          | 2.663%        |
| 9         | 9.487       | 1097          | 1105        | 1114         | rBV2     | 520885         | 881631        | 23.16%          | 2.300%        |
| 10        | 10.022      | 1188          | 1196        | 1208         | rBV      | 759030         | 1333100       | 35.03%          | 3.478%        |
| 11        | 10.392      | 1252          | 1259        | 1268         | rVB      | 598728         | 975508        | 25.63%          | 2.545%        |
| 12        | 10.539      | 1277          | 1284        | 1298         | rBV      | 477317         | 852789        | 22.41%          | 2.225%        |
| 13        | 13.580      | 1794          | 1801        | 1808         | rBV2     | 120090         | 174649        | 4.59%           | 0.456%        |
| 14        | 13.686      | 1812          | 1819        | 1823         | rBV      | 1320011        | 1847244       | 48.54%          | 4.819%        |
| 15        | 13.733      | 1823          | 1827        | 1833         | rVB      | 424813         | 585659        | 15.39%          | 1.528%        |
| 16        | 13.957      | 1857          | 1865        | 1874         | rBV      | 1599156        | 2293135       | 60.25%          | 5.982%        |
| 17        | 14.222      | 1905          | 1910        | 1913         | rBV2     | 76686          | 105735        | 2.78%           | 0.276%        |
| 18        | 14.269      | 1913          | 1918        | 1925         | rVB2     | 808396         | 1213073       | 31.87%          | 3.165%        |
| 19        | 14.492      | 1949          | 1956        | 1969         | rBV      | 437345         | 845457        | 22.21%          | 2.206%        |
| 20        | 15.269      | 2081          | 2088        | 2096         | rBV      | 1855048        | 2700596       | 70.96%          | 7.045%        |
| 21        | 15.404      | 2105          | 2111        | 2123         | rBV      | 529831         | 794882        | 20.89%          | 2.074%        |
| 22        | 15.639      | 2142          | 2151        | 2159         | rBV      | 91613          | 134908        | 3.54%           | 0.352%        |
| 23        | 17.021      | 2379          | 2386        | 2394         | rBV2     | 1024268        | 1467811       | 38.57%          | 3.829%        |
| 24        | 17.115      | 2396          | 2402        | 2411         | rBV      | 2048009        | 2913535       | 76.55%          | 7.601%        |
| 25        | 17.927      | 2535          | 2540        | 2548         | rBV3     | 160095         | 267323        | 7.02%           | 0.697%        |
| 26        | 17.998      | 2548          | 2552        | 2556         | rVB      | 33281          | 45060         | 1.18%           | 0.118%        |
| 27        | 19.062      | 2728          | 2733        | 2736         | rBV3     | 37315          | 56658         | 1.49%           | 0.148%        |
| 28        | 19.215      | 2755          | 2759        | 2766         | rBV2     | 100865         | 138176        | 3.63%           | 0.360%        |
| 29        | 19.421      | 2787          | 2794        | 2801         | rBV      | 2557641        | 3433508       | 90.21%          | 8.958%        |
| 30        | 19.821      | 2858          | 2862        | 2868         | rVB5     | 32977          | 50897         | 1.34%           | 0.133%        |
| 31        | 20.409      | 2958          | 2962        | 2966         | rVB6     | 37098          | 45731         | 1.20%           | 0.119%        |
| 32        | 20.780      | 3020          | 3025        | 3032         | rBV      | 691098         | 776388        | 20.40%          | 2.025%        |
| 33        | 20.939      | 3049          | 3052        | 3060         | rVB2     | 267154         | 341422        | 8.97%           | 0.891%        |
| 34        | 21.139      | 3084          | 3086        | 3092         | rBV6     | 32861          | 38653         | 1.02%           | 0.101%        |

## LSC Area Percent Report

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
Data File : BM013638.D  
Acq On : 18 Jan 2018 13:29  
Operator : SJ/JU  
Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0  
Filtering: 5  
Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 21.215 | 3094 | 3099 | 3108 | rBV  | 1488161 | 1938994 | 50.95%  | 5.059% |
| 36 | 21.827 | 3200 | 3203 | 3211 | rVB8 | 118396  | 183844  | 4.83%   | 0.480% |
| 37 | 22.750 | 3358 | 3360 | 3366 | rVB5 | 81886   | 110458  | 2.90%   | 0.288% |
| 38 | 23.280 | 3443 | 3450 | 3461 | rBV  | 2048776 | 3805967 | 100.00% | 9.929% |
| 39 | 23.421 | 3468 | 3474 | 3485 | rVB  | 987226  | 1858699 | 48.84%  | 4.849% |
| 40 | 24.021 | 3572 | 3576 | 3584 | rVB5 | 141656  | 292960  | 7.70%   | 0.764% |

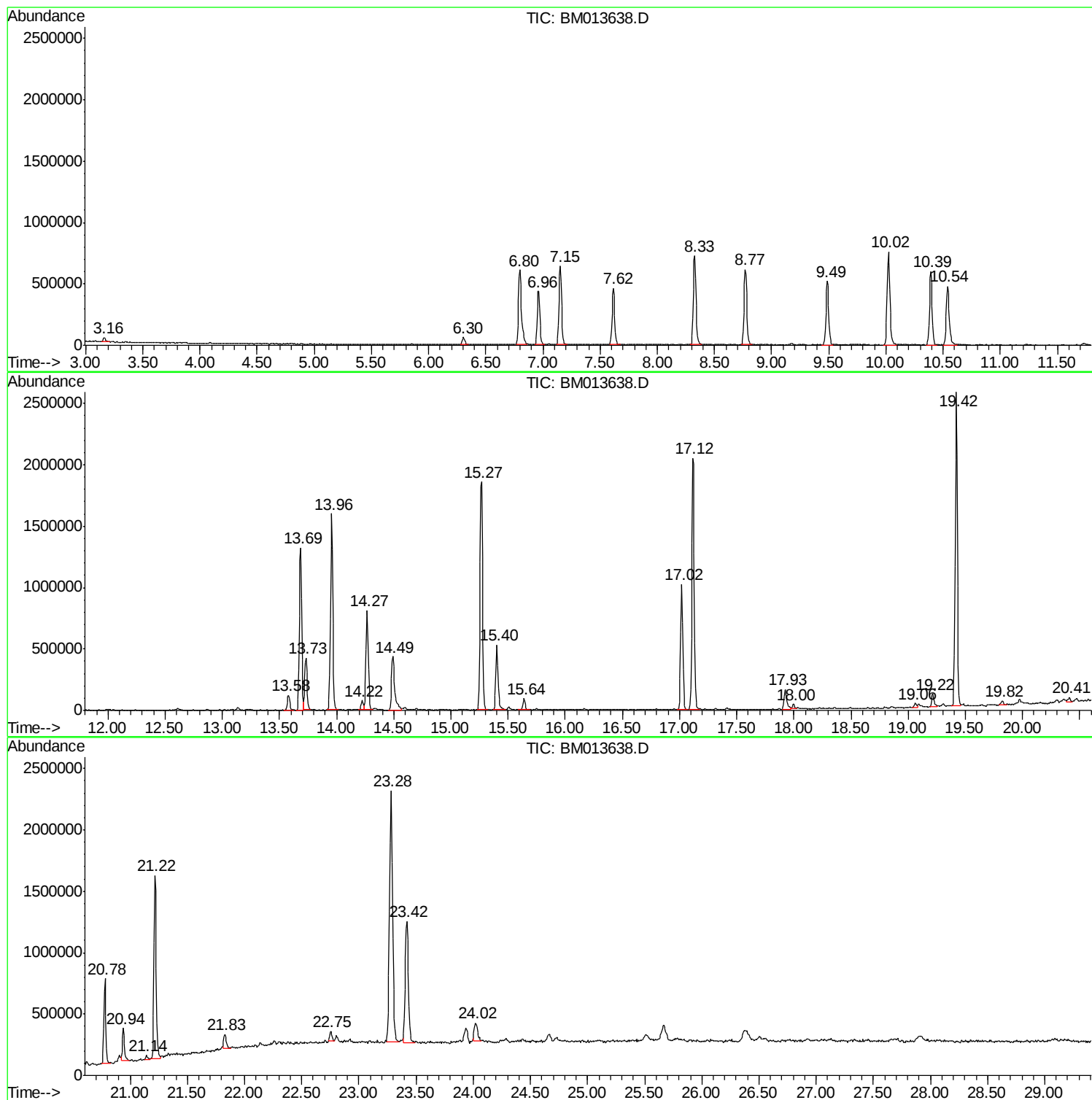
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Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
Data File : BM013638.D  
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Misc :  
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Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

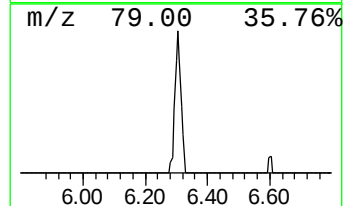
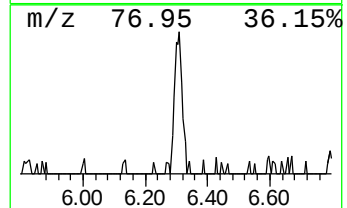
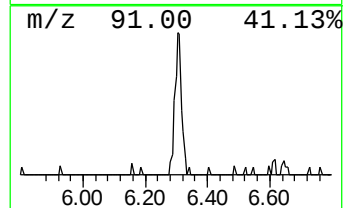
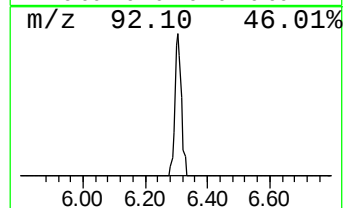
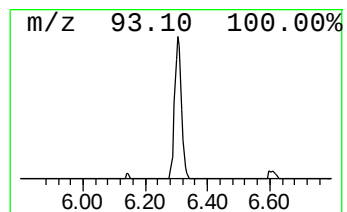
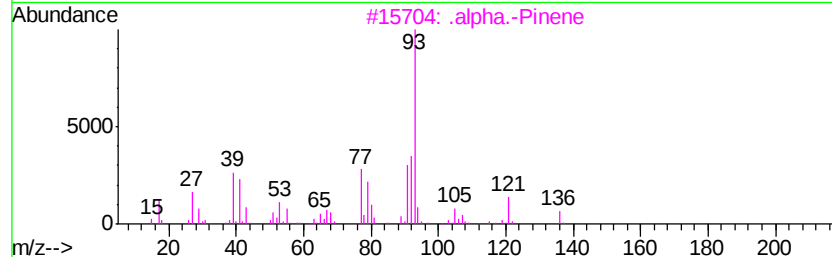
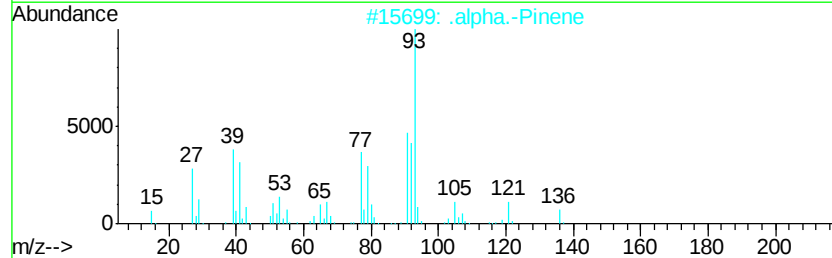
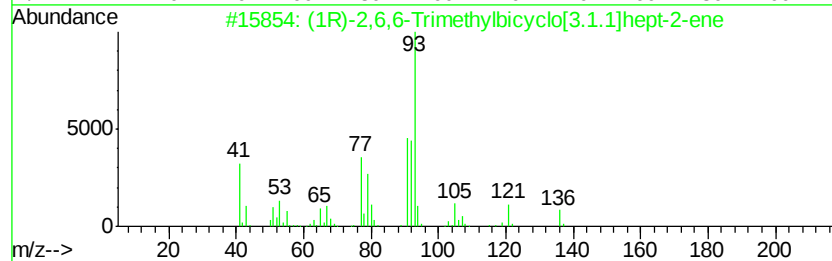
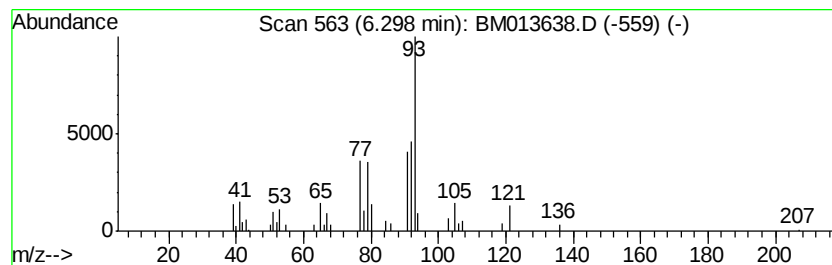
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 6

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 6.30 | 2.41 ng/ul | 88702 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 95   |
| 2    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 93   |
| 3    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 87   |
| 4    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 87   |
| 5    |    | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16  | 007785-70-8 | 86   |



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Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

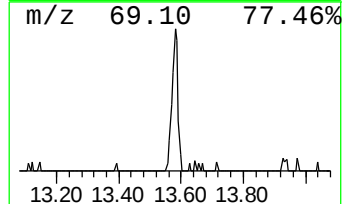
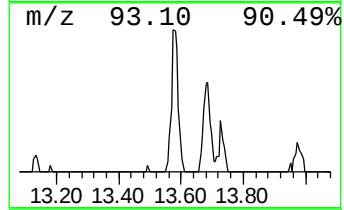
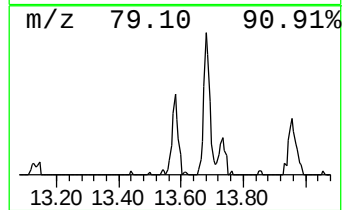
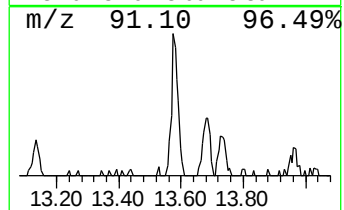
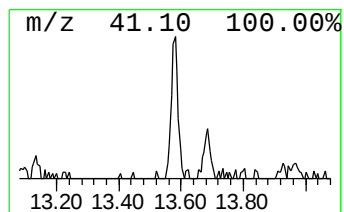
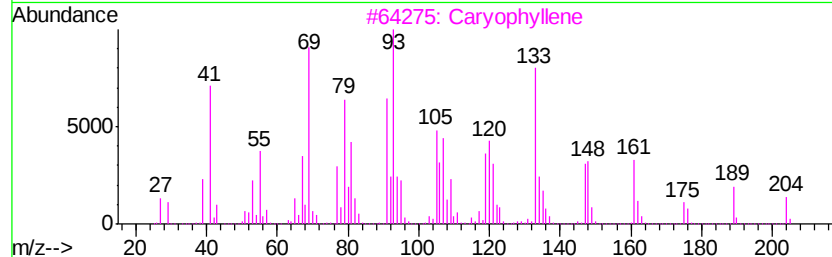
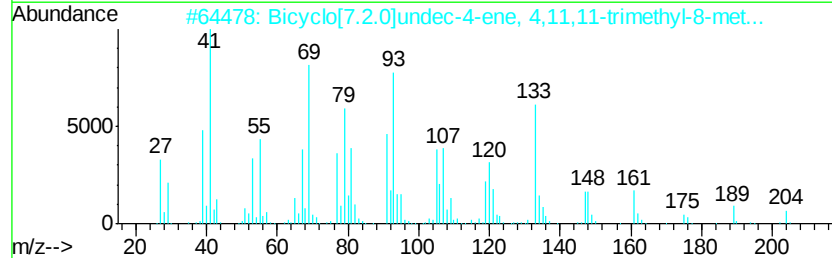
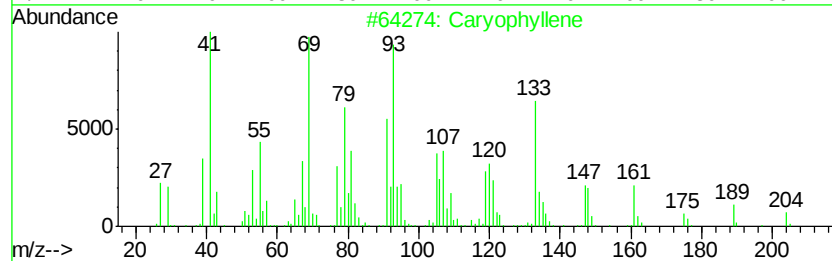
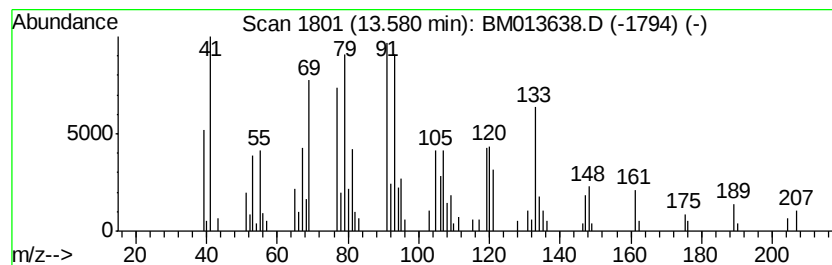
Instrument :  
BNA\_M  
ClientSampled :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Caryophyllene Concentration Rank 5

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 13.58   | 2.88 ng/ul | 174649                              | Acenaphthene-d10 | 14.27           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Caryophyllene                       | 204 C15H24       | 000087-44-5 96  |
| 2       |            | Bicyclo[7.2.0]undec-4-ene, 4,11,... | 204 C15H24       | 000118-65-0 96  |
| 3       |            | Caryophyllene                       | 204 C15H24       | 000087-44-5 96  |
| 4       |            | Caryophyllene                       | 204 C15H24       | 000087-44-5 93  |
| 5       |            | 1R,3Z,9s-4,11,11-Trimethyl-8-met... | 204 C15H24       | 1000140-07-3 58 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
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Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

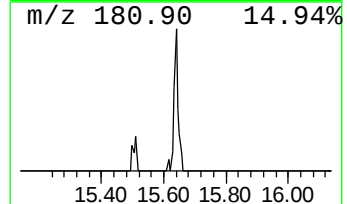
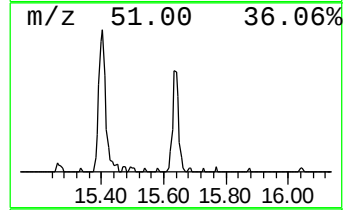
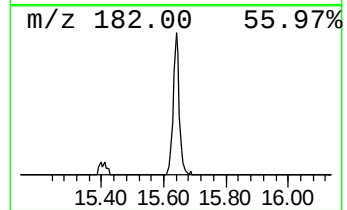
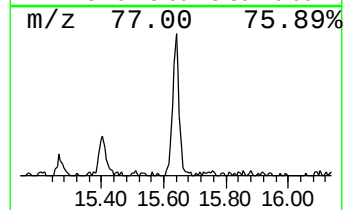
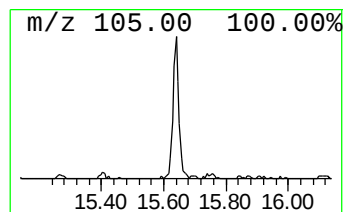
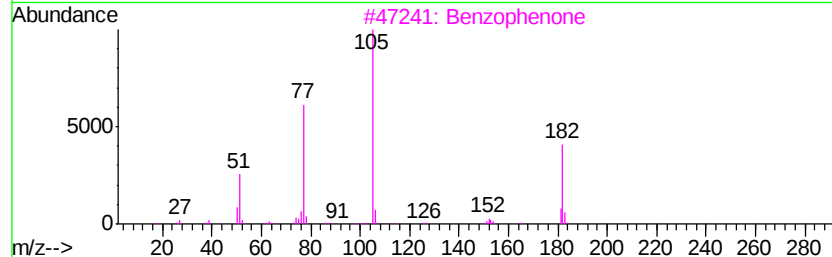
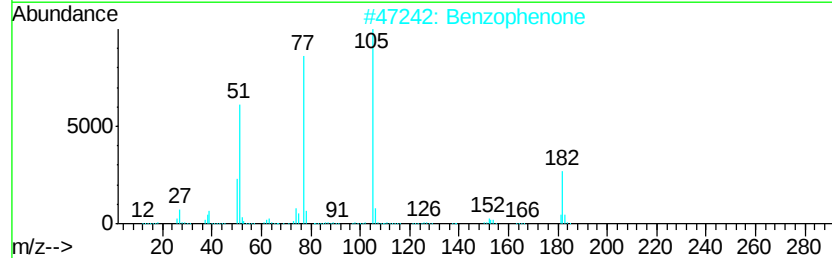
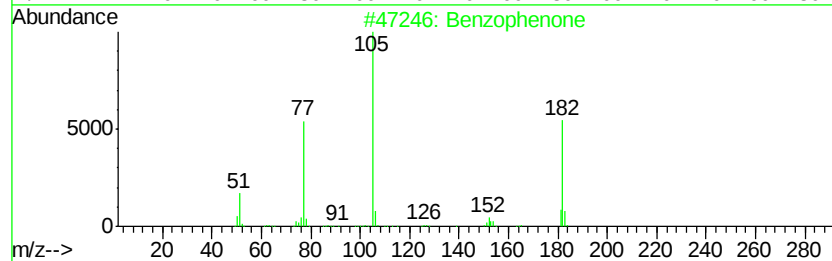
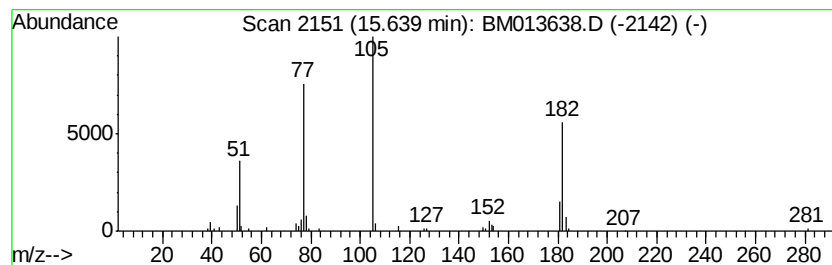
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Benzophenone Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.64 | 2.22 ng/ul | 134908 | Acenaphthene-d10 | 14.27 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Benzophenone | 182 | C13H10O | 000119-61-9 | 94   |
| 2    |    | Benzophenone | 182 | C13H10O | 000119-61-9 | 91   |
| 3    |    | Benzophenone | 182 | C13H10O | 000119-61-9 | 91   |
| 4    |    | Benzophenone | 182 | C13H10O | 000119-61-9 | 91   |
| 5    |    | Benzophenone | 182 | C13H10O | 000119-61-9 | 78   |



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Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

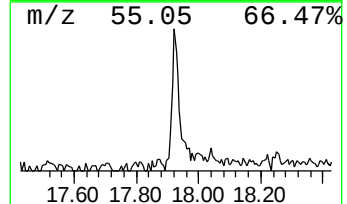
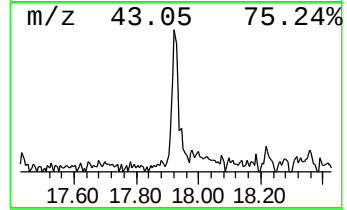
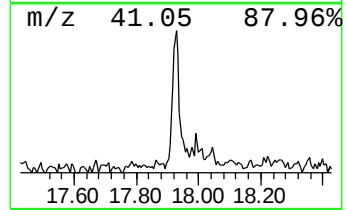
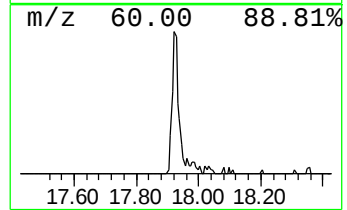
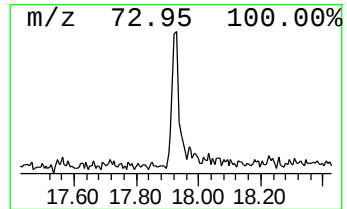
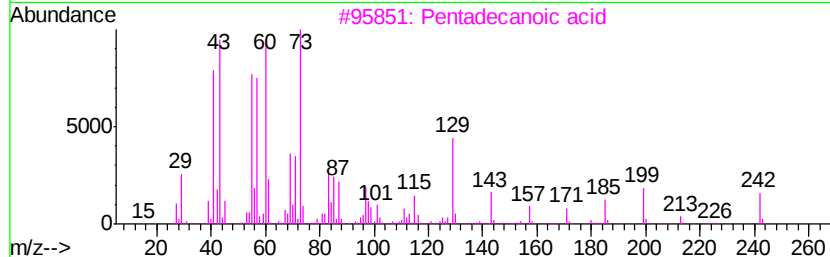
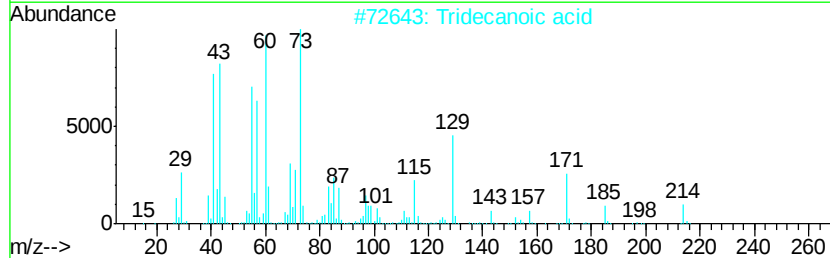
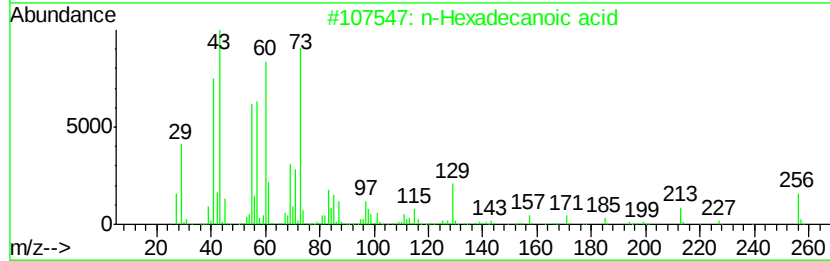
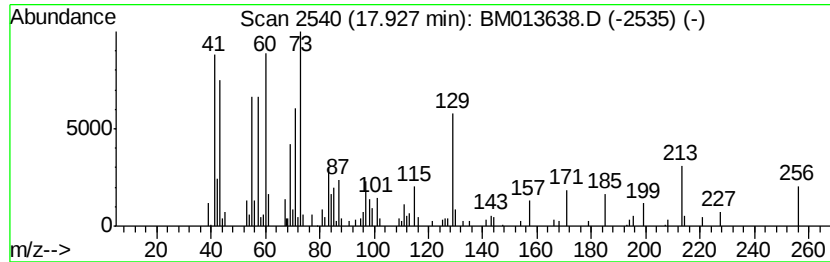
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 17.93     | 3.64 ng/ul          | 267323 | Phenanthrene-d10 | 17.02       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 76   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 70   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 68   |
| 4         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 64   |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 58   |



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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

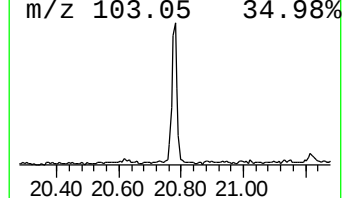
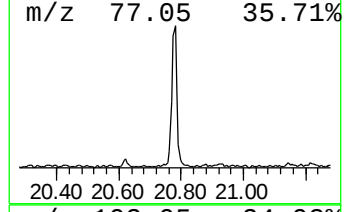
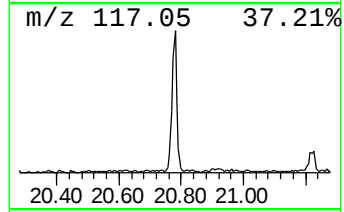
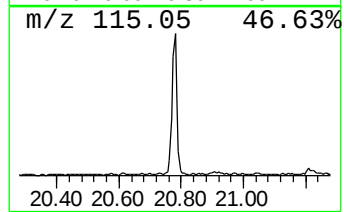
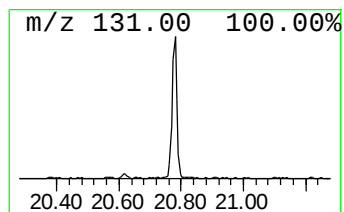
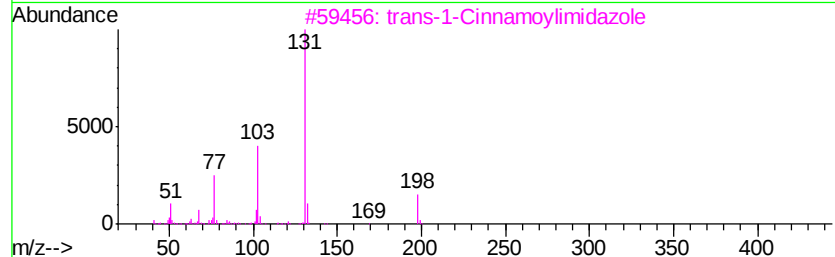
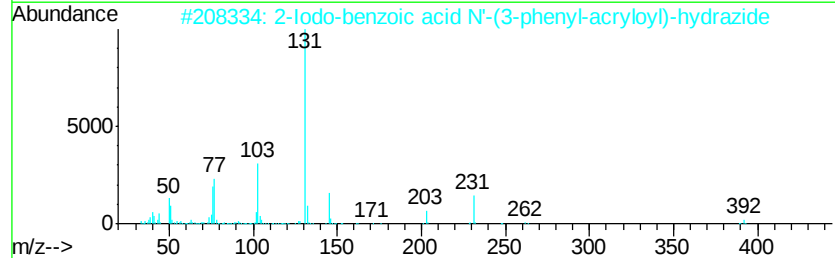
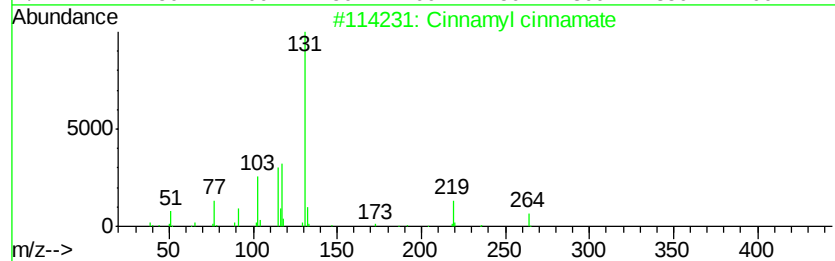
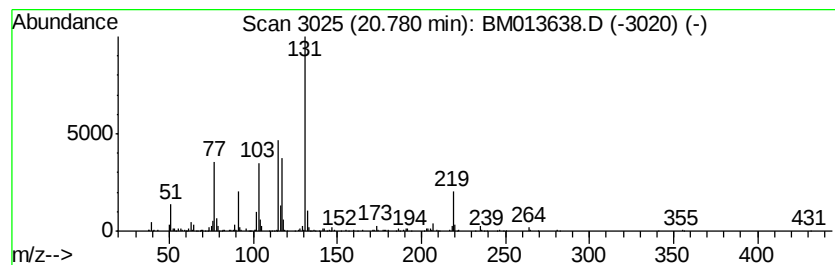
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Cinnamyl cinnamate Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.78 | 8.01 ng/ul | 776388 | Chrysene-d12     | 21.22 |

| Hit# of | 5                                   | Tentative ID | MW          | MolForm      | CAS# | Qual |
|---------|-------------------------------------|--------------|-------------|--------------|------|------|
| 1       | Cinnamyl cinnamate                  | 264          | C18H16O2    | 000122-69-0  | 64   |      |
| 2       | 2-Iodo-benzoic acid N'-(3-phenyl... | 392          | C16H13IN2O2 | 315672-62-9  | 47   |      |
| 3       | trans-1-Cinnamoylimidazole          | 198          | C12H10N2O   | 001138-15-4  | 47   |      |
| 4       | 2,2-Dimethyl-1-(2-vinylphenyl)pr... | 188          | C13H16O     | 1000210-99-9 | 47   |      |
| 5       | 2-Nitrophenyl cinnamamide           | 268          | C15H12N2O3  | 111273-37-1  | 47   |      |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
Data File : BM013638.D  
Acq On : 18 Jan 2018 13:29  
Operator : SJ/JU  
Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

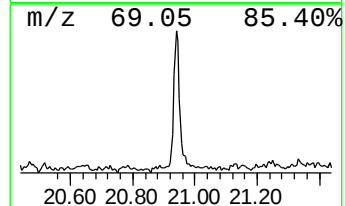
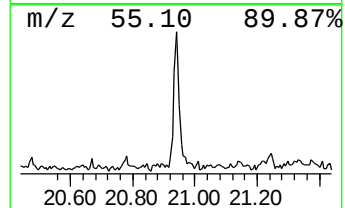
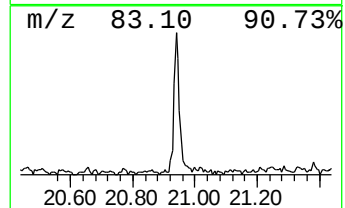
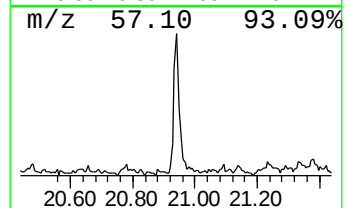
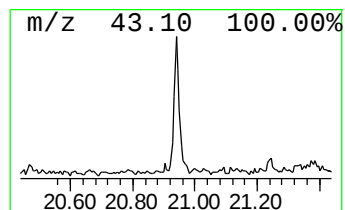
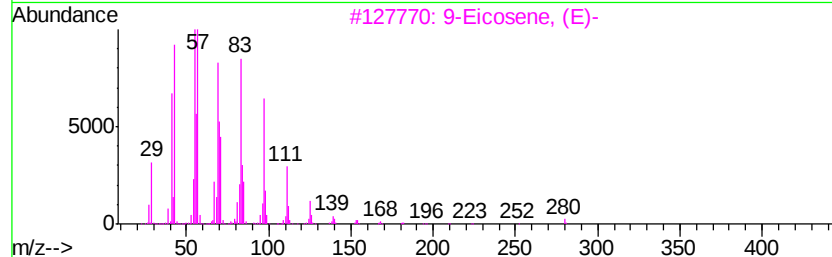
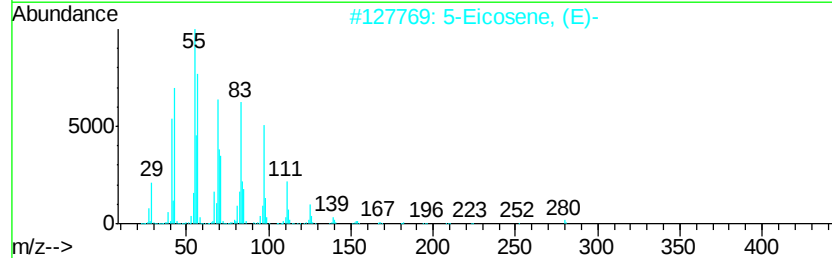
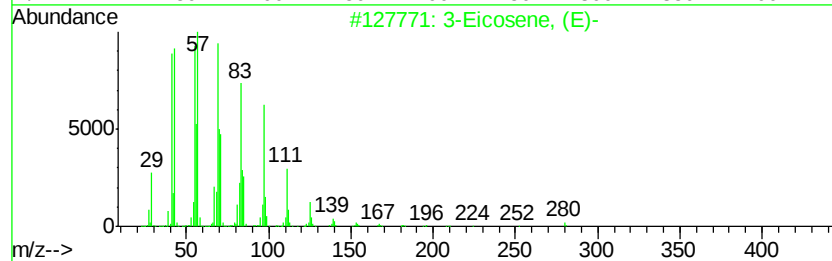
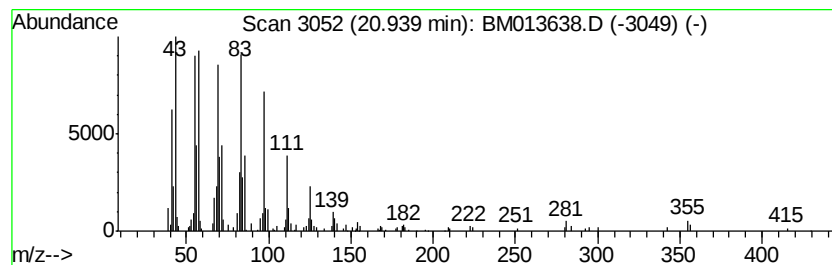
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Cyclic20.94 Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.94 | 3.52 ng/ul | 341422 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9  | 98   |
| 2    |    | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6  | 95   |
| 3    |    | 9-Eicosene, (E)-                    | 280 | C20H40      | 074685-29-3  | 92   |
| 4    |    | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 91   |
| 5    |    | Bromoacetic acid, hexadecyl ester   | 362 | C18H35BrO2  | 005454-48-8  | 87   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
Data File : BM013638.D  
Acq On : 18 Jan 2018 13:29  
Operator : SJ/JU  
Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

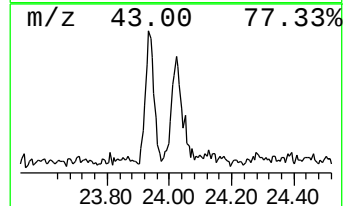
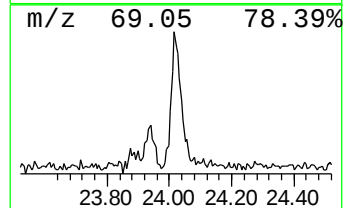
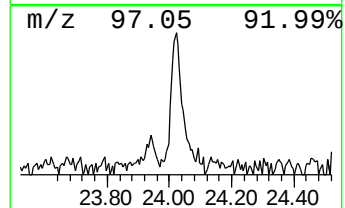
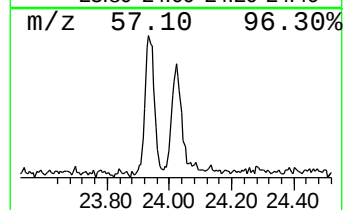
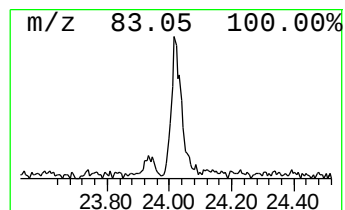
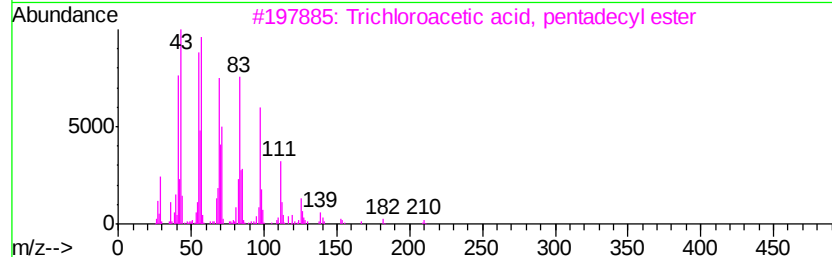
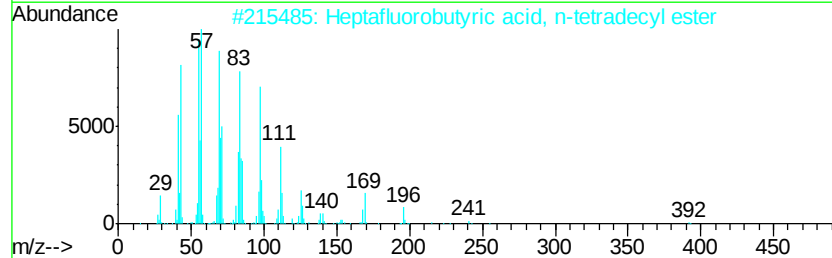
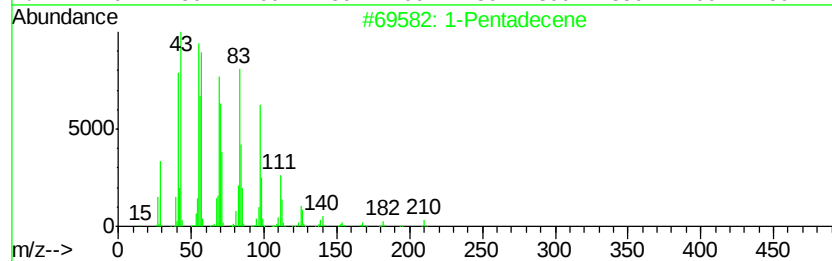
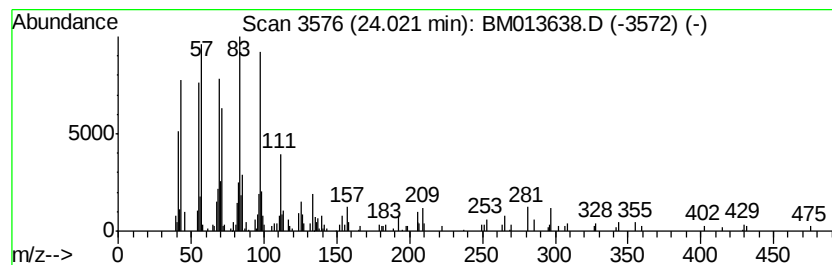
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Cyclic24.02 Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.02 | 3.15 ng/ul | 292960 | Perylene-d12     | 23.42 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | 1-Pentadecene                       | 210 | C15H30      | 013360-61-7 | 91   |
| 2    |    |   | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2  | 007365-36-8 | 87   |
| 3    |    |   | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 64   |
| 4    |    |   | Trichloroacetic acid, tridecyl e... | 344 | C15H27Cl3O2 | 074339-51-8 | 64   |
| 5    |    |   | 10-Heneicosene (c,t)                | 294 | C21H42      | 095008-11-0 | 58   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_M\DATA\BM011818\  
Data File : BM013638.D  
Acq On : 18 Jan 2018 13:29  
Operator : SJ/JU  
Sample : J1097-04  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
DAJM4

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| (1R)-2,6,6-Trimet... | 6.30  | 2.4     | ng/ul | 88702    | 1                     | 7.62  | 735838  | 20.0 |
| Caryophyllene        | 13.58 | 2.9     | ng/ul | 174649   | 3                     | 14.27 | 1213070 | 20.0 |
| Benzophenone         | 15.64 | 2.2     | ng/ul | 134908   | 3                     | 14.27 | 1213070 | 20.0 |
| n-Hexadecanoic acid  | 17.93 | 3.6     | ng/ul | 267323   | 4                     | 17.02 | 1467810 | 20.0 |
| Cinnamyl cinnamate   | 20.78 | 8.0     | ng/ul | 776388   | 5                     | 21.22 | 1938990 | 20.0 |
| (DEL) Alkane: Cyc... | 20.94 | 3.5     | ng/ul | 341422   | 5                     | 21.22 | 1938990 | 20.0 |
| (DEL) Alkane: Cyc... | 24.02 | 3.1     | ng/ul | 292960   | 6                     | 23.42 | 1858700 | 20.0 |