

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
 Data File : VV011238.D  
 Acq On : 05 Jun 2019 19:02  
 Operator : SY/MD  
 Sample : K3197-10  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9P54

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0

Filtering: 5

Min Area: 3 % 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:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M

Title : TRACE VOA SOM01.0

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         | 1.116       | 6             | 8           | 18           | rVB2     | 18015          | 20930         | 1.37%           | 0.227%        |
| 2         | 1.245       | 37            | 48          | 62           | rBV      | 425626         | 1531913       | 100.00%         | 16.586%       |
| 3         | 1.579       | 147           | 152         | 168          | rVB      | 85346          | 106178        | 6.93%           | 1.150%        |
| 4         | 2.126       | 313           | 322         | 335          | rVB      | 188626         | 262475        | 17.13%          | 2.842%        |
| 5         | 2.312       | 371           | 380         | 397          | rBV      | 258295         | 375411        | 24.51%          | 4.064%        |
| 6         | 2.653       | 477           | 486         | 499          | rVB2     | 20762          | 42588         | 2.78%           | 0.461%        |
| 7         | 3.762       | 811           | 831         | 852          | rBV7     | 14213          | 49284         | 3.22%           | 0.534%        |
| 8         | 3.978       | 880           | 898         | 950          | rBV3     | 47694          | 283673        | 18.52%          | 3.071%        |
| 9         | 4.399       | 1013          | 1029        | 1051         | rBV      | 110641         | 264873        | 17.29%          | 2.868%        |
| 10        | 5.093       | 1227          | 1245        | 1272         | rBV2     | 277695         | 666921        | 43.54%          | 7.221%        |
| 11        | 5.662       | 1409          | 1422        | 1443         | rBV      | 202570         | 416483        | 27.19%          | 4.509%        |
| 12        | 6.071       | 1538          | 1549        | 1554         | rBV2     | 31266          | 53918         | 3.52%           | 0.584%        |
| 13        | 6.119       | 1554          | 1564        | 1580         | rVB2     | 147241         | 299703        | 19.56%          | 3.245%        |
| 14        | 6.633       | 1696          | 1724        | 1744         | rBV      | 37511          | 96271         | 6.28%           | 1.042%        |
| 15        | 7.029       | 1833          | 1847        | 1861         | rBV2     | 78636          | 142523        | 9.30%           | 1.543%        |
| 16        | 7.357       | 1934          | 1949        | 1965         | rBV      | 318522         | 568307        | 37.10%          | 6.153%        |
| 17        | 7.662       | 2034          | 2044        | 2063         | rBV      | 44198          | 80676         | 5.27%           | 0.873%        |
| 18        | 8.138       | 2179          | 2192        | 2203         | rBV      | 336908         | 621797        | 40.59%          | 6.732%        |
| 19        | 8.190       | 2203          | 2208        | 2230         | rVV2     | 84448          | 170102        | 11.10%          | 1.842%        |
| 20        | 8.289       | 2230          | 2239        | 2254         | rVB4     | 15580          | 32310         | 2.11%           | 0.350%        |
| 21        | 8.894       | 2415          | 2427        | 2454         | rBV      | 307632         | 536264        | 35.01%          | 5.806%        |
| 22        | 9.145       | 2495          | 2505        | 2521         | rVB      | 68721          | 116079        | 7.58%           | 1.257%        |
| 23        | 9.267       | 2532          | 2543        | 2558         | rVB4     | 9271           | 22042         | 1.44%           | 0.239%        |
| 24        | 9.428       | 2582          | 2593        | 2604         | rBV2     | 17551          | 29696         | 1.94%           | 0.322%        |
| 25        | 9.749       | 2680          | 2693        | 2708         | rBV      | 72641          | 126880        | 8.28%           | 1.374%        |
| 26        | 9.852       | 2717          | 2725        | 2732         | rBV3     | 19028          | 30030         | 1.96%           | 0.325%        |
| 27        | 10.190      | 2823          | 2830        | 2841         | rVB2     | 12794          | 21220         | 1.39%           | 0.230%        |
| 28        | 10.260      | 2841          | 2852        | 2863         | rBV      | 108174         | 172565        | 11.26%          | 1.868%        |
| 29        | 10.472      | 2909          | 2918        | 2932         | rBV      | 20911          | 36239         | 2.37%           | 0.392%        |
| 30        | 10.553      | 2936          | 2943        | 2956         | rVB5     | 11662          | 21423         | 1.40%           | 0.232%        |
| 31        | 11.083      | 3096          | 3108        | 3121         | rBV      | 128910         | 208009        | 13.58%          | 2.252%        |
| 32        | 11.193      | 3128          | 3142        | 3153         | rBV4     | 40634          | 87553         | 5.72%           | 0.948%        |
| 33        | 11.292      | 3163          | 3173        | 3195         | rVB      | 298986         | 487000        | 31.79%          | 5.273%        |
| 34        | 11.575      | 3247          | 3261        | 3279         | rBV      | 39380          | 85379         | 5.57%           | 0.924%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.1 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Title : TRACE VOA SOM01.0

|    |        |      |      |      |       |        |        |        |        |
|----|--------|------|------|------|-------|--------|--------|--------|--------|
| 35 | 11.672 | 3279 | 3291 | 3306 | rVB   | 296372 | 478835 | 31.26% | 5.184% |
| 36 | 12.279 | 3467 | 3480 | 3489 | rBV   | 86429  | 141533 | 9.24%  | 1.532% |
| 37 | 12.324 | 3489 | 3494 | 3505 | rVV3  | 20689  | 35387  | 2.31%  | 0.383% |
| 38 | 12.389 | 3505 | 3514 | 3528 | rVV   | 82598  | 130685 | 8.53%  | 1.415% |
| 39 | 13.479 | 3846 | 3853 | 3862 | rBV8  | 10909  | 17375  | 1.13%  | 0.188% |
| 40 | 13.678 | 3903 | 3915 | 3929 | rBV   | 56279  | 88827  | 5.80%  | 0.962% |
| 41 | 13.797 | 3945 | 3952 | 3961 | rBV7  | 9681   | 15323  | 1.00%  | 0.166% |
| 42 | 15.167 | 4370 | 4378 | 4387 | rBV10 | 12218  | 20407  | 1.33%  | 0.221% |
| 43 | 16.234 | 4700 | 4710 | 4721 | rBV7  | 31898  | 54724  | 3.57%  | 0.592% |
| 44 | 16.363 | 4738 | 4750 | 4763 | rBV2  | 122920 | 186645 | 12.18% | 2.021% |

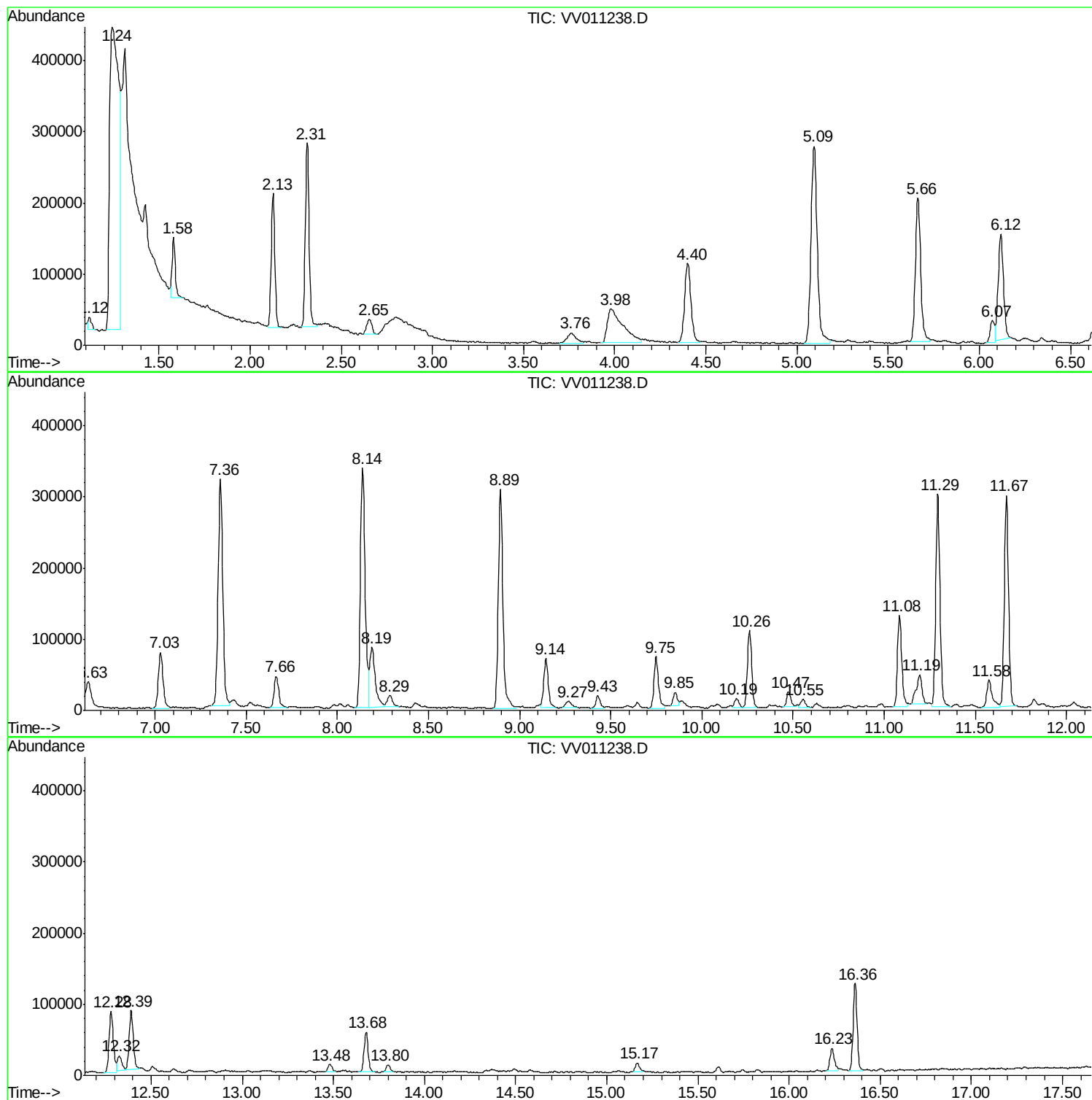
Sum of corrected areas: 9236456

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

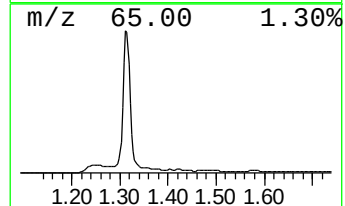
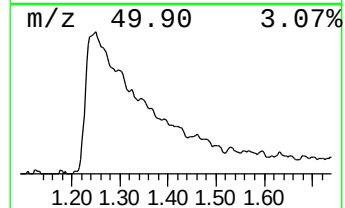
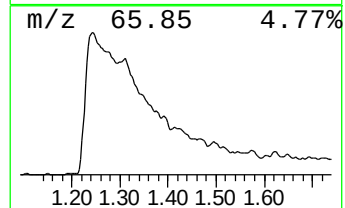
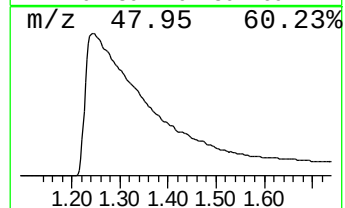
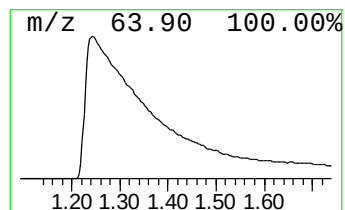
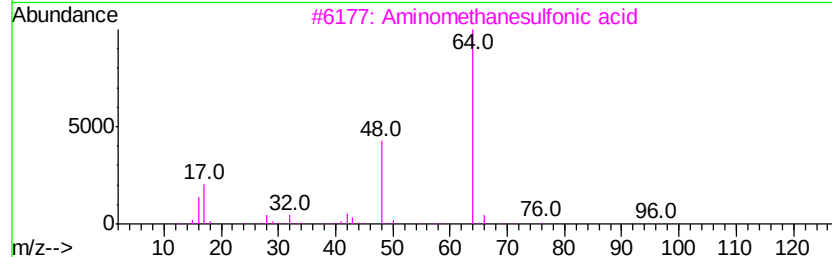
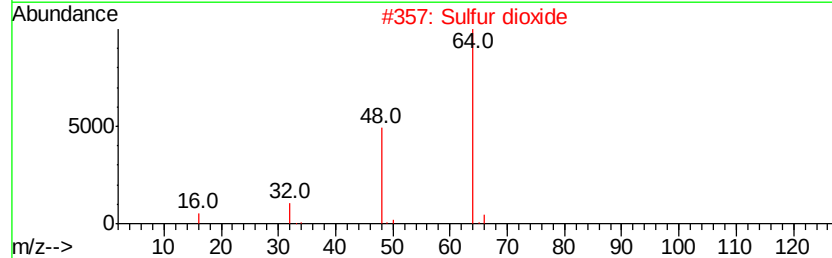
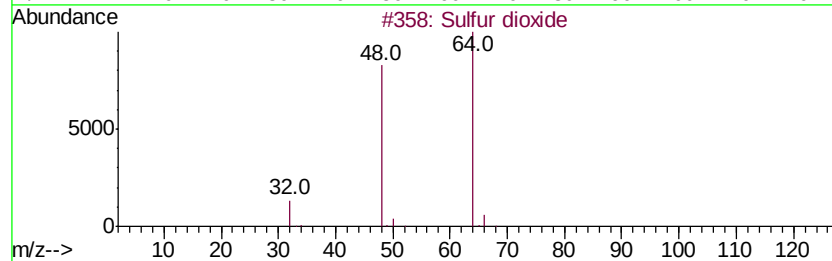
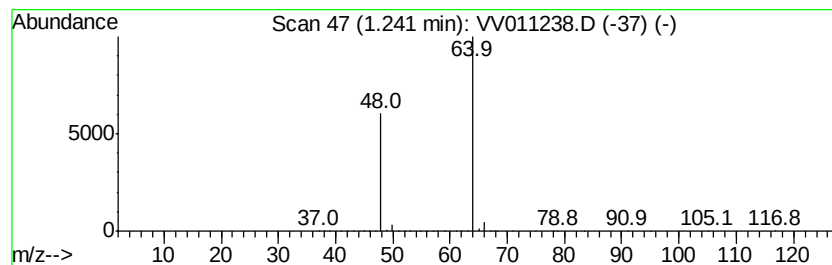
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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

\*\*\*\*\*  
Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T.    | EstConc                   | Area         | Relative to ISTD    | R.T.      |
|---------|---------------------------|--------------|---------------------|-----------|
| 1.24    | 18.39 ug/L                | 1531910      | 1,4-Difluorobenzene | 5.66      |
| Hit# of | 5                         | Tentative ID | MW MolForm          | CAS# Qual |
| 1       | Sulfur dioxide            | 64 02S       | 007446-09-5         | 83        |
| 2       | Sulfur dioxide            | 64 02S       | 007446-09-5         | 83        |
| 3       | Aminomethanesulfonic acid | 111 CH5N03S  | 013881-91-9         | 74        |
| 4       | Aminomethanesulfonic acid | 111 CH5N03S  | 013881-91-9         | 9         |
| 5       | Aminomethanesulfonic acid | 111 CH5N03S  | 013881-91-9         | 9         |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

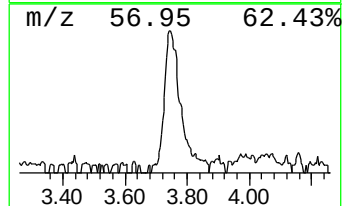
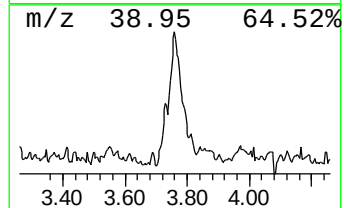
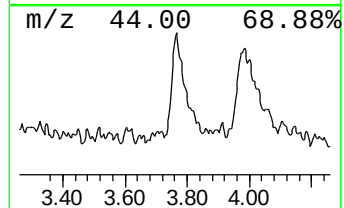
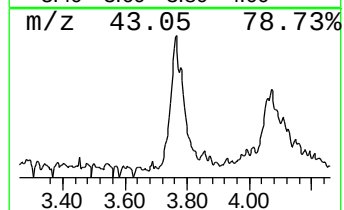
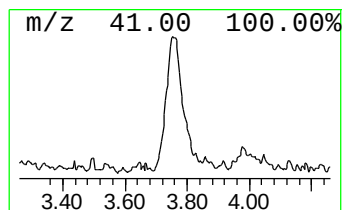
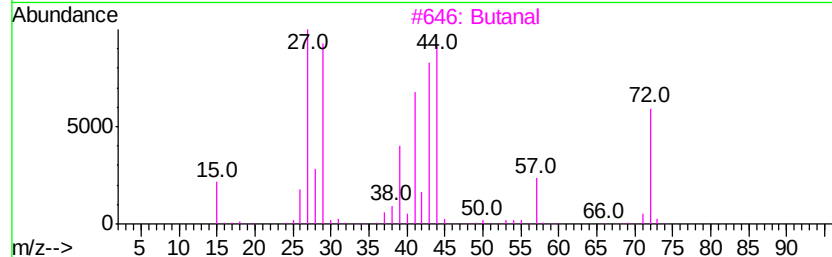
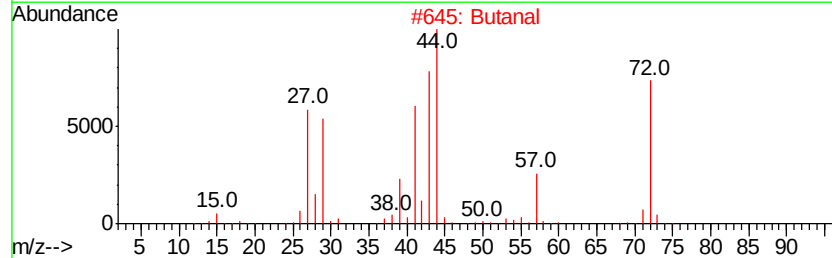
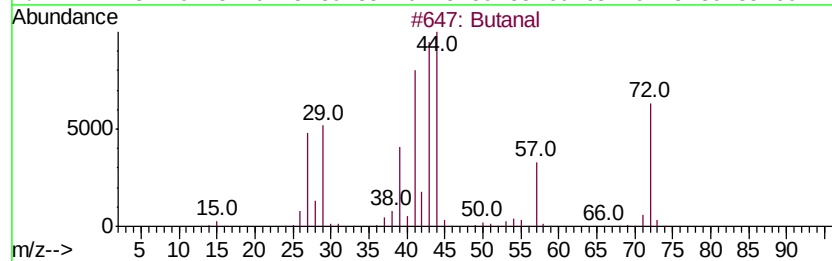
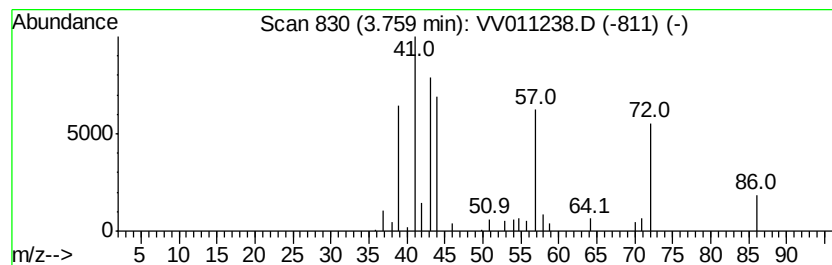
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown-01 Concentration Rank 13

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.76 | 0.59 ug/L | 49284 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID            | MW | MolForm | CAS#        | Qual |
|------|----|-------------------------|----|---------|-------------|------|
| 1    | 5  | Butanal                 | 72 | C4H8O   | 000123-72-8 | 47   |
| 2    |    | Butanal                 | 72 | C4H8O   | 000123-72-8 | 47   |
| 3    |    | Butanal                 | 72 | C4H8O   | 000123-72-8 | 46   |
| 4    |    | Butanal                 | 72 | C4H8O   | 000123-72-8 | 43   |
| 5    |    | Cyclopropanecarboxamide | 85 | C4H7NO  | 006228-73-5 | 28   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

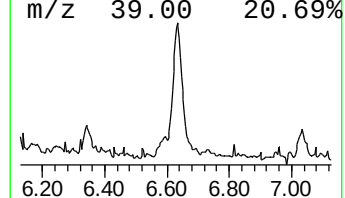
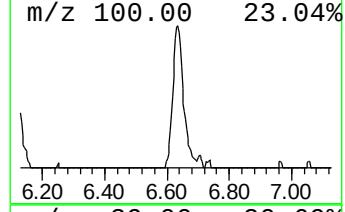
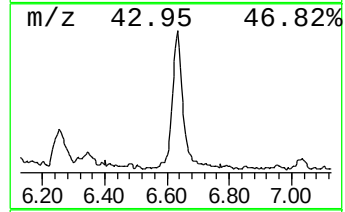
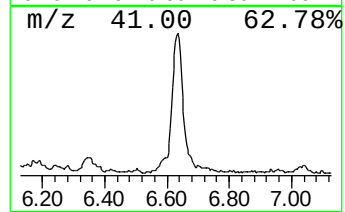
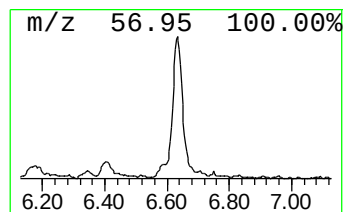
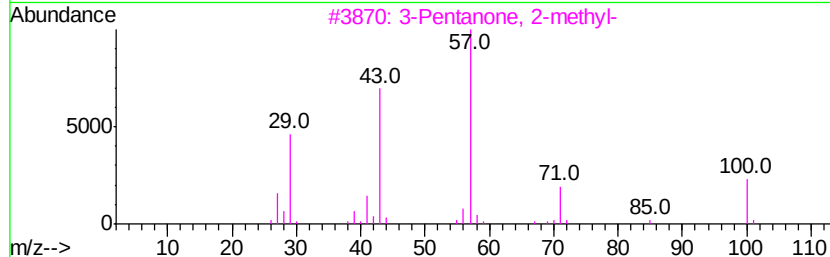
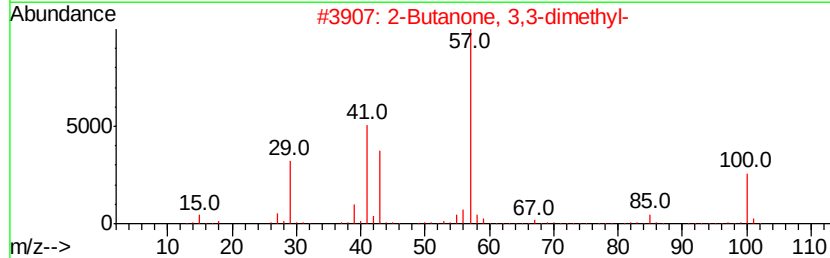
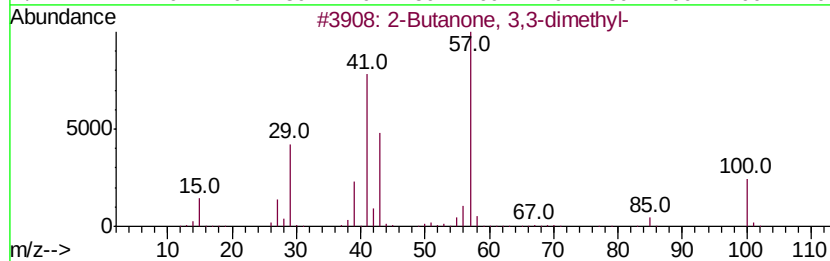
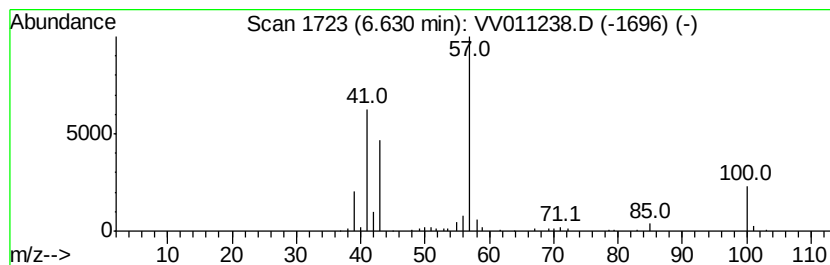
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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

\*\*\*\*\*  
Peak Number 4 2-Butanone, 3,3-dimethyl- Concentration Rank 8

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 6.63 | 1.16 ug/L | 96271 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Butanone, 3,3-dimethyl- | 100 | C6H12O  | 000075-97-8 | 90   |
| 2    |    | 2-Butanone, 3,3-dimethyl- | 100 | C6H12O  | 000075-97-8 | 72   |
| 3    |    | 3-Pentanone, 2-methyl-    | 100 | C6H12O  | 000565-69-5 | 64   |
| 4    |    | 3-Pentanone, 2-methyl-    | 100 | C6H12O  | 000565-69-5 | 59   |
| 5    |    | 3-Hexanone                | 100 | C6H12O  | 000589-38-8 | 59   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

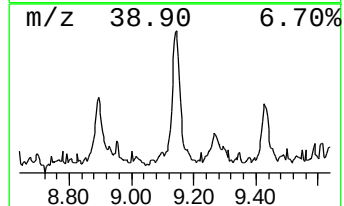
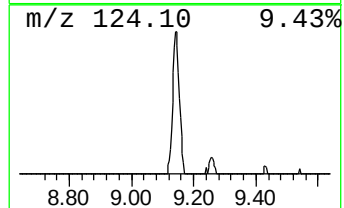
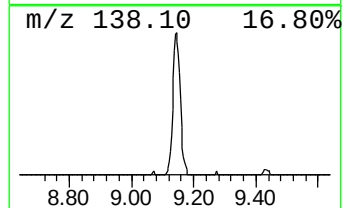
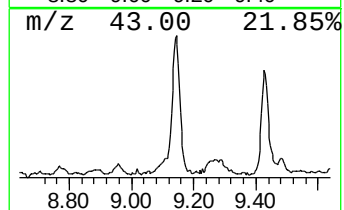
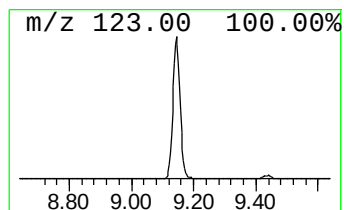
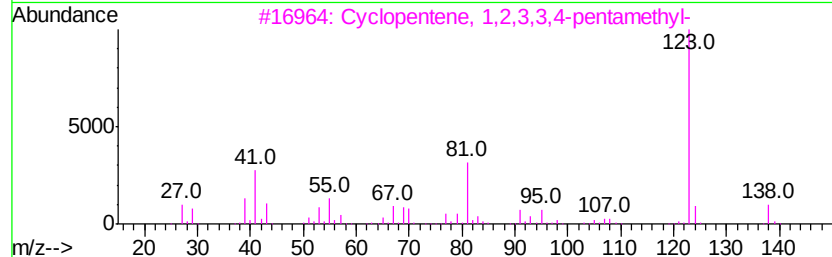
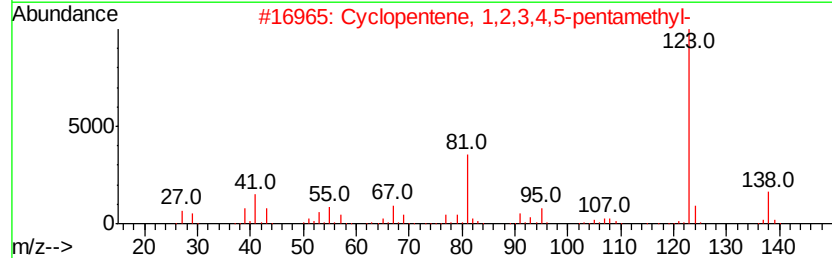
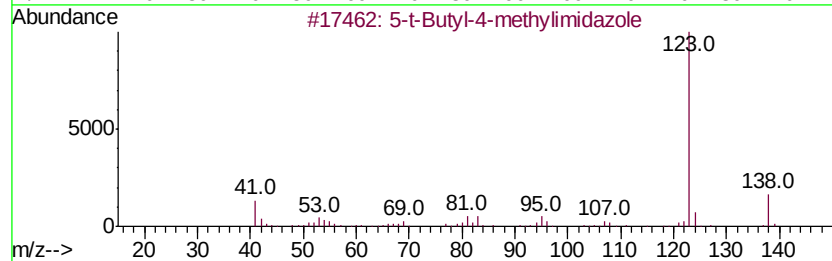
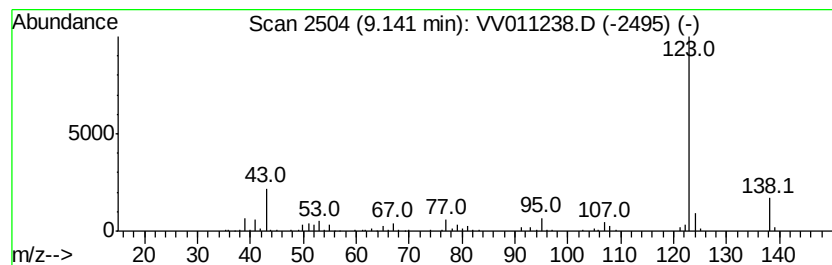
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 5-t-Butyl-4-methylimidazole Concentration Rank 9

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.14 | 1.08 ug/L | 116079 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 5-t-Butyl-4-methylimidazole           | 138 | C8H14N2 | 146979-50-2  | 90   |
| 2    |    | Cyclopentene, 1,2,3,4,5-pentamethy... | 138 | C10H18  | 1000154-28-6 | 86   |
| 3    |    | Cyclopentene, 1,2,3,3,4-pentamethy... | 138 | C10H18  | 197390-29-7  | 86   |
| 4    |    | 1,3-Benzenediol, 4-ethyl-             | 138 | C8H10O2 | 002896-60-8  | 80   |
| 5    |    | Phorone                               | 138 | C9H14O  | 000504-20-1  | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

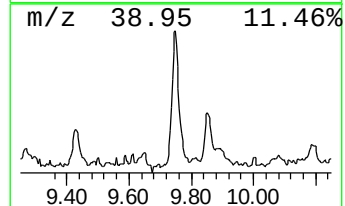
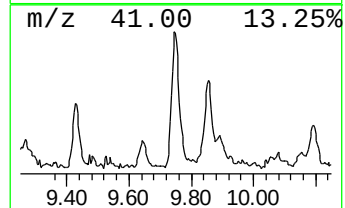
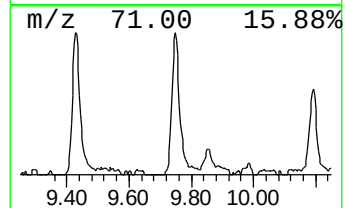
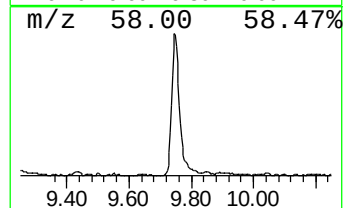
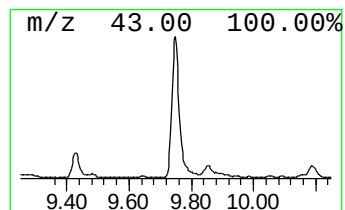
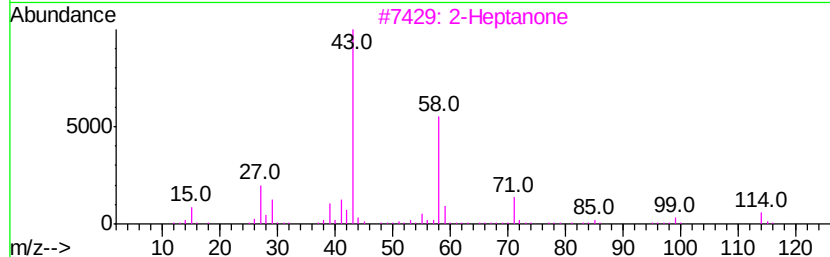
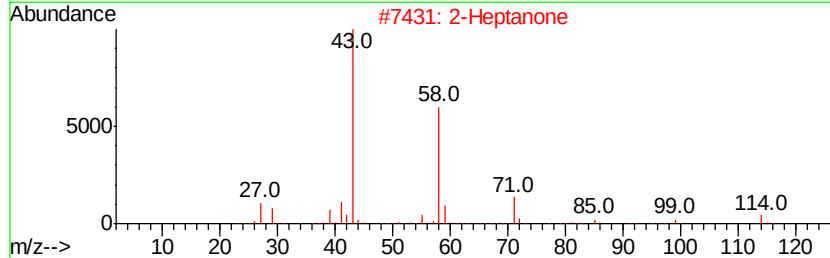
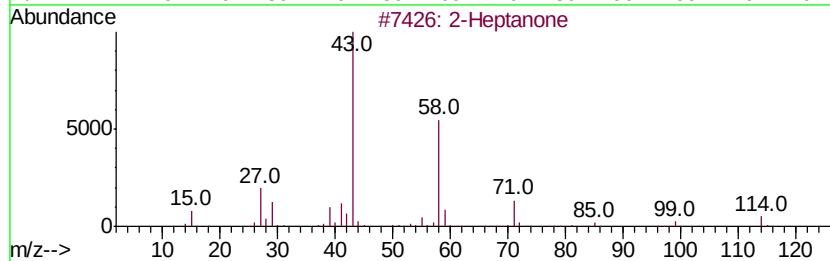
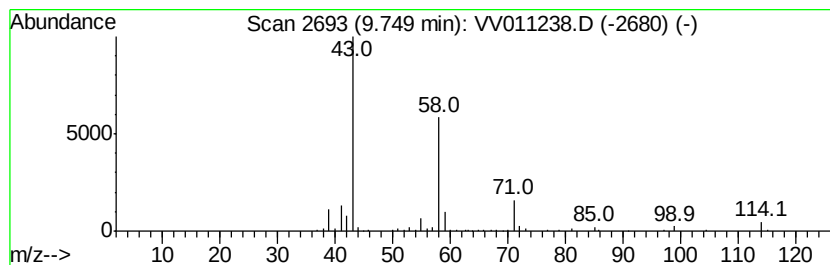
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 2-Heptanone Concentration Rank 7

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.75 | 1.18 ug/L | 126880 | Chlorobenzene-d5 | 8.90 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 91   |
| 2    |    | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 91   |
| 3    |    | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 91   |
| 4    |    | 2-Hexanone, 5-methyl- | 114 | C7H14O  | 000110-12-3 | 90   |
| 5    |    | 2-Hexanone, 5-methyl- | 114 | C7H14O  | 000110-12-3 | 86   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

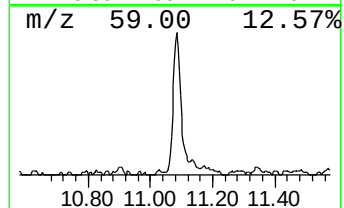
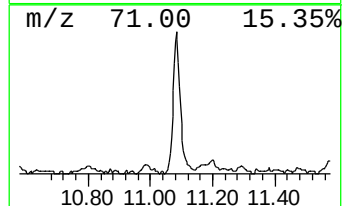
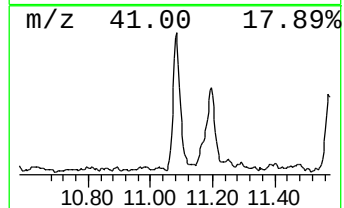
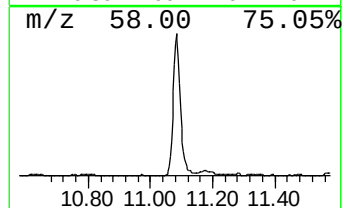
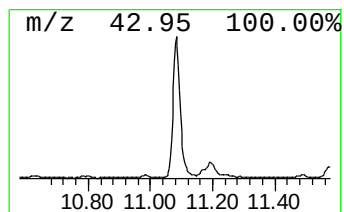
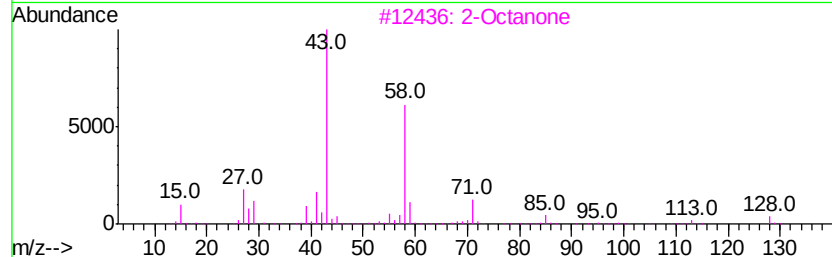
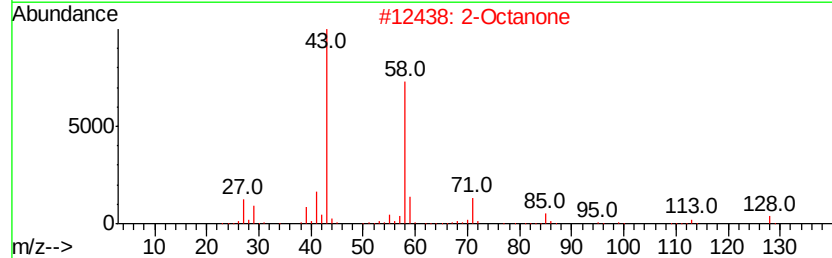
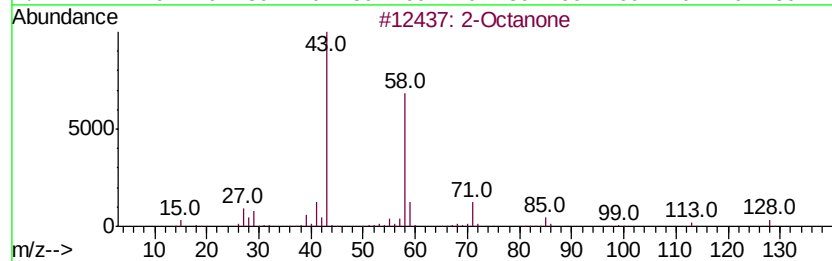
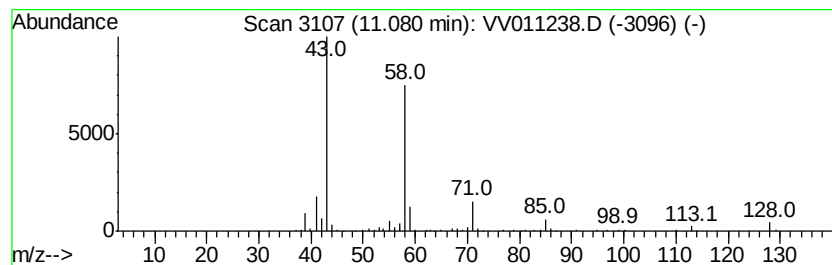
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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

\*\*\*\*\*  
Peak Number 8 2-Octanone Concentration Rank 2

| R.T.    | EstConc    | Area         | Relative to ISTD       | R.T.           |
|---------|------------|--------------|------------------------|----------------|
| 11.08   | 2.14 ug/L  | 208009       | 1,4-Dichlorobenzene-d4 | 11.29          |
| Hit# of | 5          | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | 2-Octanone |              | 128 C8H16O             | 000111-13-7 94 |
| 2       | 2-Octanone |              | 128 C8H16O             | 000111-13-7 94 |
| 3       | 2-Octanone |              | 128 C8H16O             | 000111-13-7 91 |
| 4       | 2-Octanone |              | 128 C8H16O             | 000111-13-7 90 |
| 5       | 2-Octanone |              | 128 C8H16O             | 000111-13-7 90 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

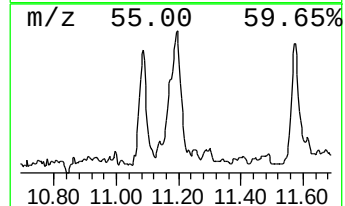
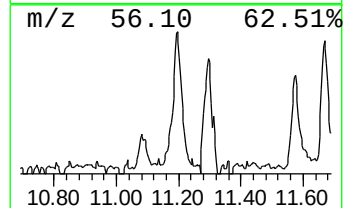
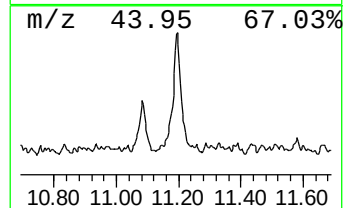
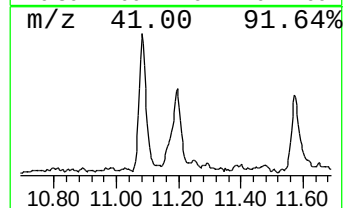
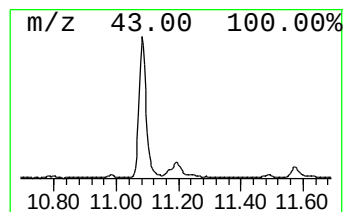
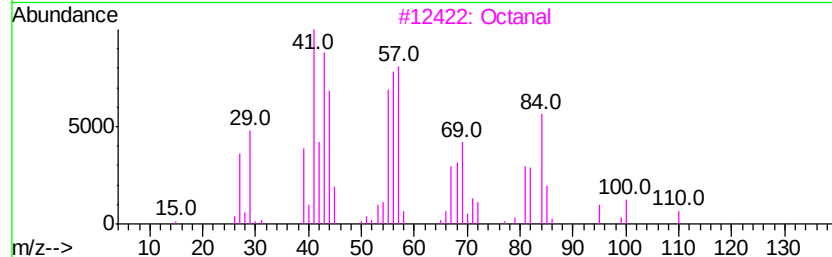
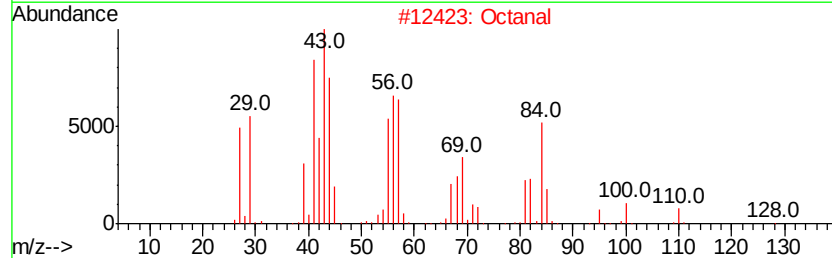
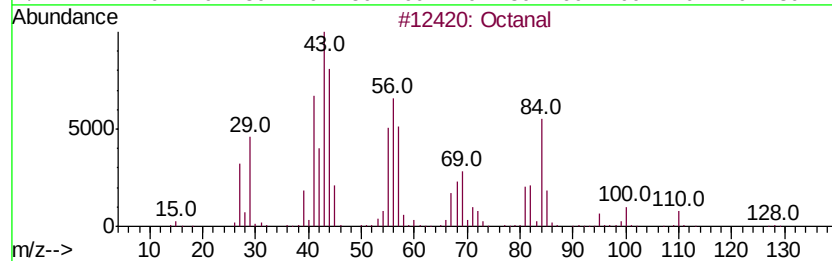
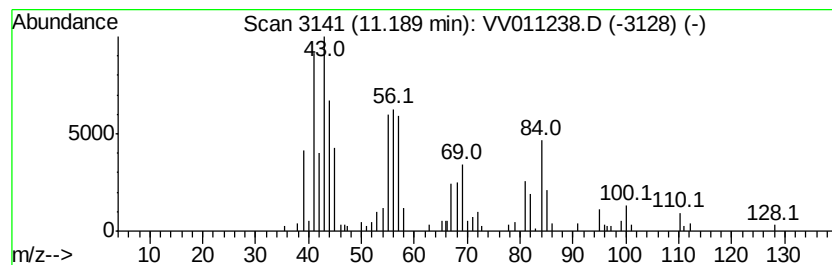
Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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

\*\*\*\*\*  
Peak Number 9 Octanal Concentration Rank 11

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.           |
|---------|-------------------------------------|--------------|------------------------|----------------|
| 11.19   | 0.90 ug/L                           | 87553        | 1,4-Dichlorobenzene-d4 | 11.29          |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | Octanal                             |              | 128 C8H16O             | 000124-13-0 90 |
| 2       | Octanal                             |              | 128 C8H16O             | 000124-13-0 90 |
| 3       | Octanal                             |              | 128 C8H16O             | 000124-13-0 64 |
| 4       | Octanal                             |              | 128 C8H16O             | 000124-13-0 64 |
| 5       | 3-Amino-1,2,4-triazole-5-carboxy... |              | 128 C3H4N4O2           | 003641-13-2 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

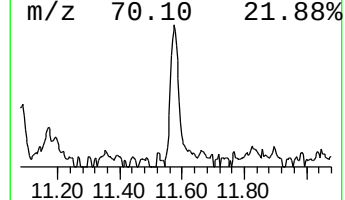
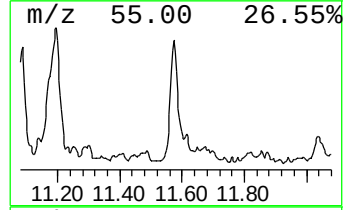
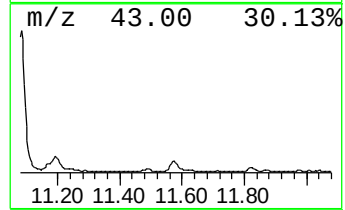
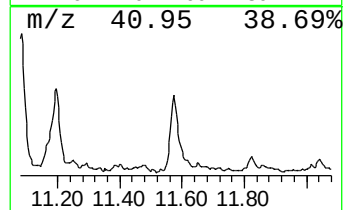
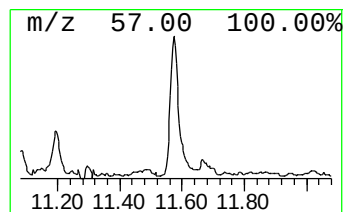
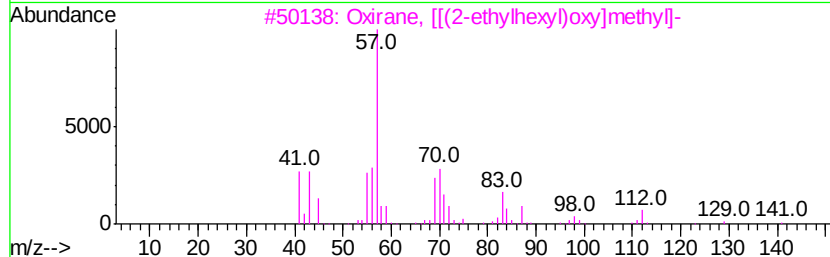
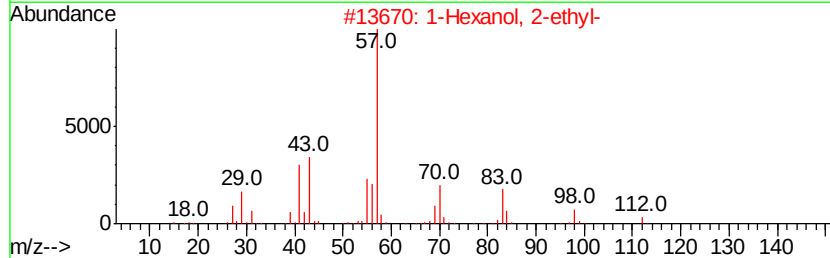
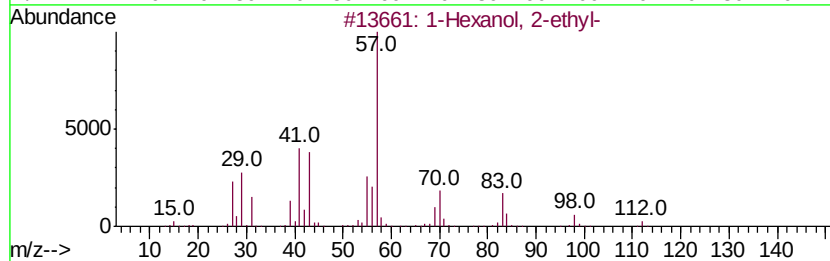
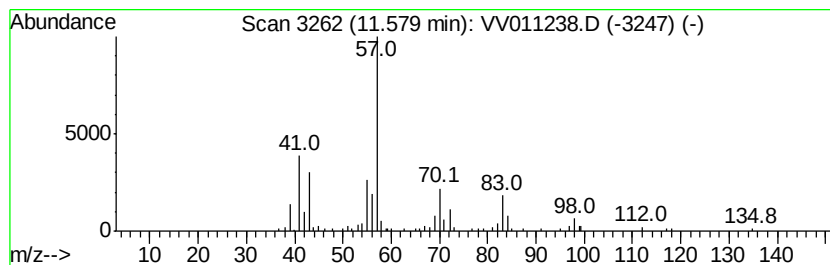
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 1-Hexanol, 2-ethyl- Concentration Rank 12

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.58 | 0.88 ug/L | 85379 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 1-Hexanol, 2-ethyl-                | 130 | C8H18O   | 000104-76-7 | 64   |
| 2    |    |   | 1-Hexanol, 2-ethyl-                | 130 | C8H18O   | 000104-76-7 | 64   |
| 3    |    |   | Oxirane, [(2-ethylhexyl)oxy]met... | 186 | C11H22O2 | 002461-15-6 | 64   |
| 4    |    |   | 1-Hexanol, 2-ethyl-                | 130 | C8H18O   | 000104-76-7 | 59   |
| 5    |    |   | 1-Hexanol, 2-ethyl-                | 130 | C8H18O   | 000104-76-7 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

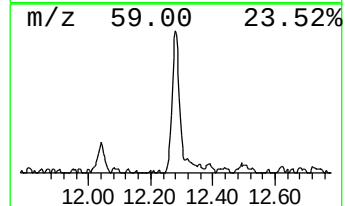
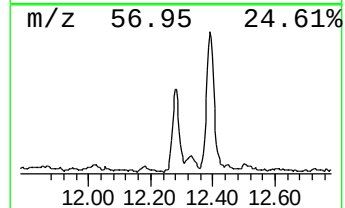
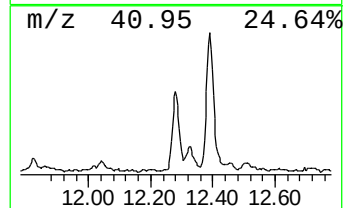
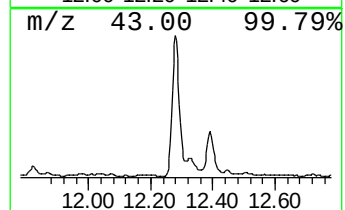
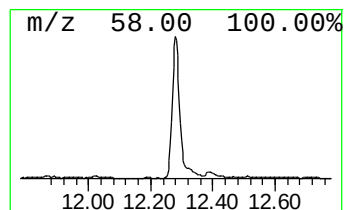
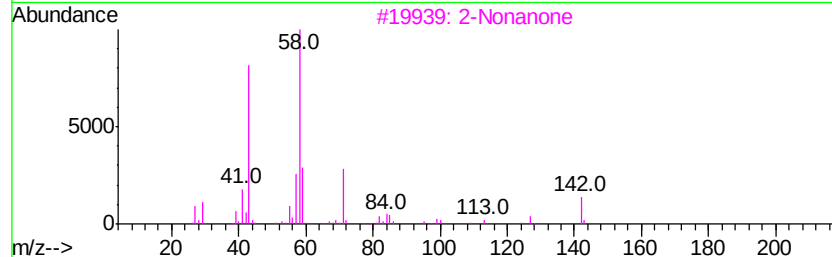
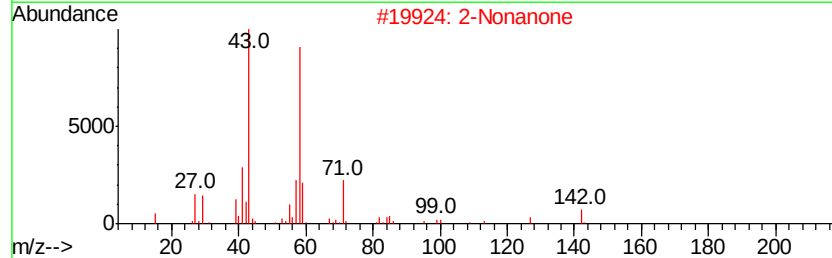
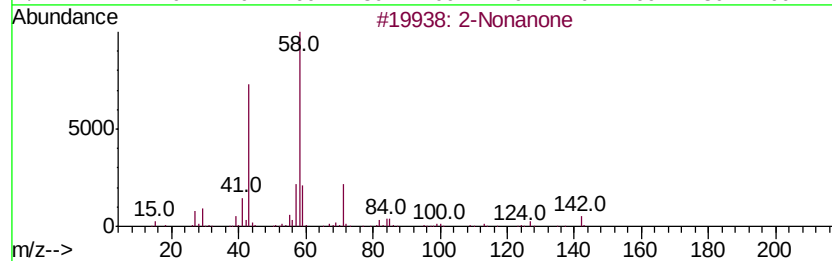
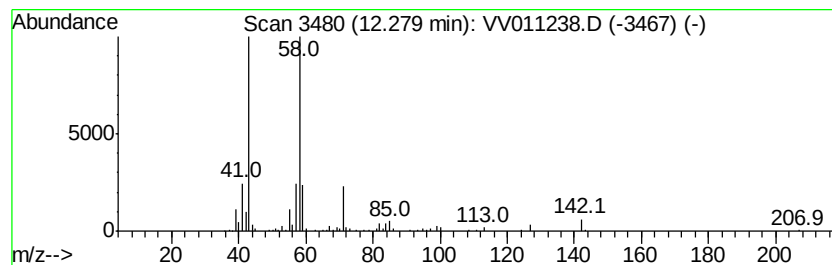
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 2-Nonanone Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.28 | 1.45 ug/L | 141533 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | 2-Nonanone   | 142 | C9H18O  | 000821-55-6 | 95   |
| 2    |    | 2-Nonanone   | 142 | C9H18O  | 000821-55-6 | 95   |
| 3    |    | 2-Nonanone   | 142 | C9H18O  | 000821-55-6 | 91   |
| 4    |    | 2-Nonanone   | 142 | C9H18O  | 000821-55-6 | 87   |
| 5    |    | 2-Dodecanone | 184 | C12H24O | 006175-49-1 | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

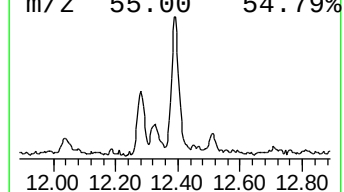
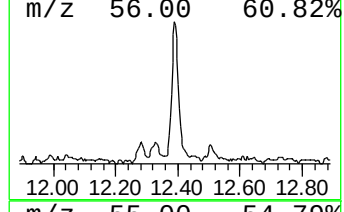
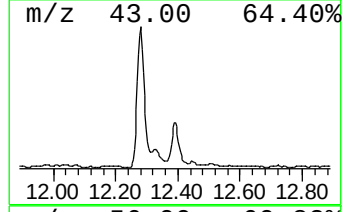
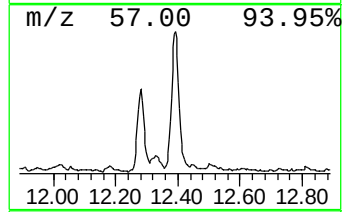
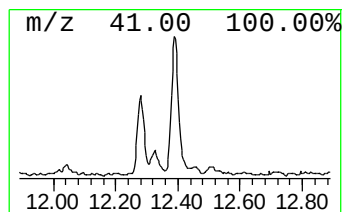
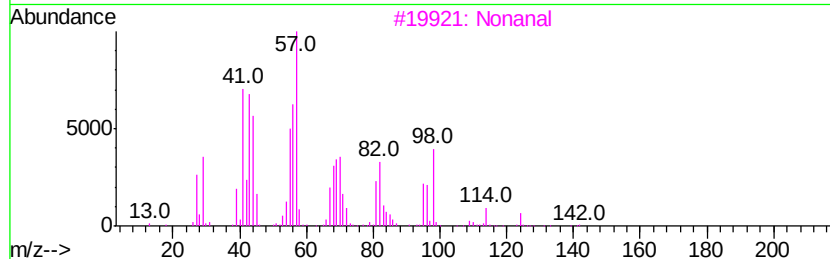
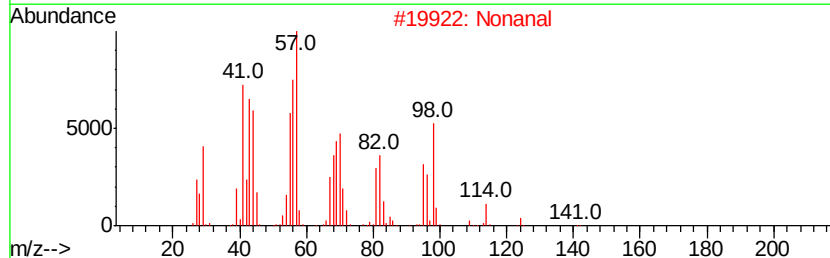
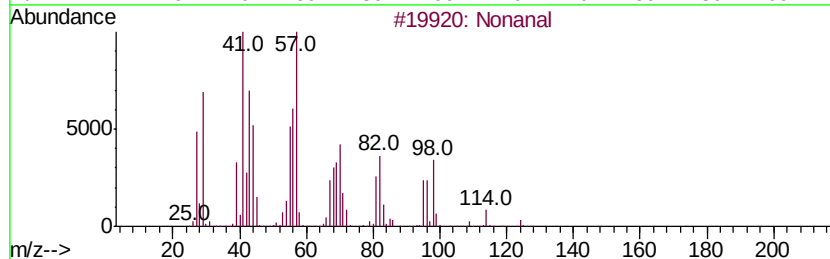
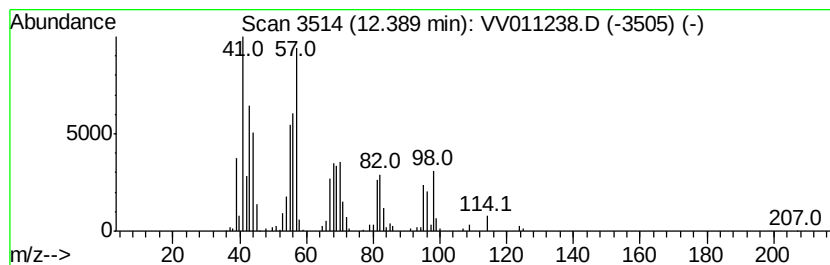
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Nonanal Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 12.39 | 1.34 ug/L | 130685 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Nonanal                         | 142 | C9H18O  | 000124-19-6 | 91   |
| 2    |    | Nonanal                         | 142 | C9H18O  | 000124-19-6 | 90   |
| 3    |    | Nonanal                         | 142 | C9H18O  | 000124-19-6 | 90   |
| 4    |    | Nonanal                         | 142 | C9H18O  | 000124-19-6 | 64   |
| 5    |    | Cyclohexanol, 2-methyl-, trans- | 114 | C7H14O  | 007443-52-9 | 18   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

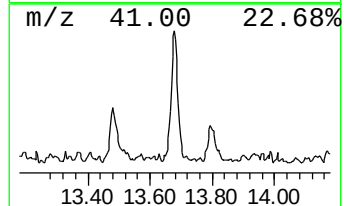
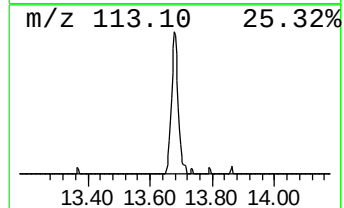
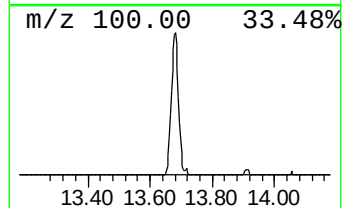
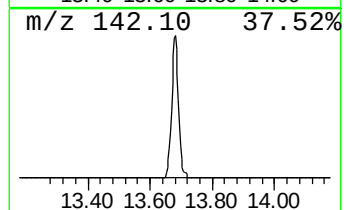
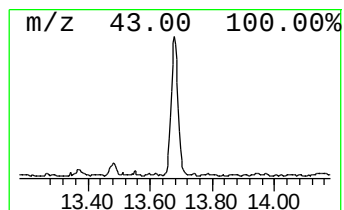
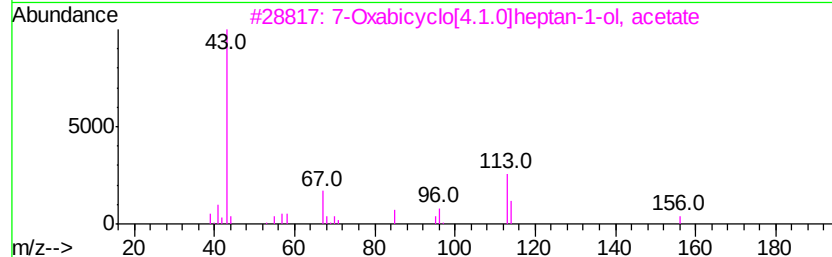
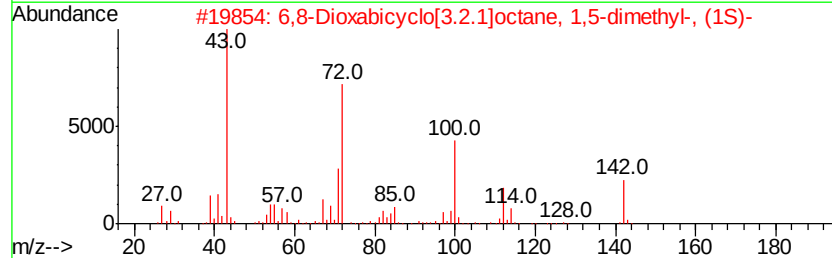
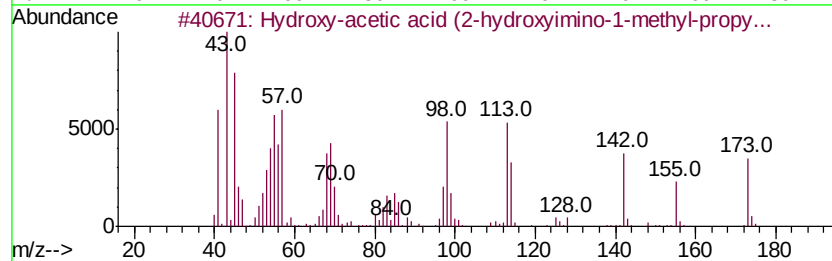
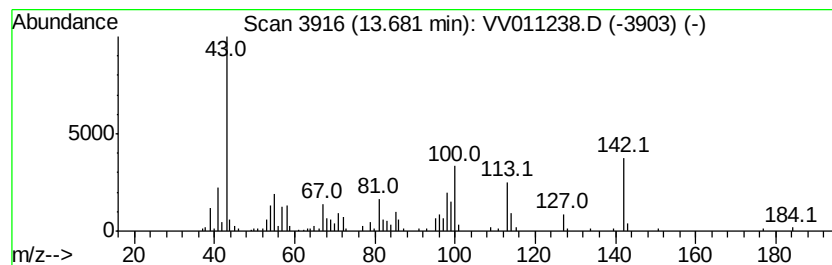
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 unknown-02 Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.68 | 0.91 ug/L | 88827 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Hydroxy-acetic acid (2-hydroxvim... | 173 | C6H11N3O3 | 1000296-22-9 | 25   |
| 2    |    | 6,8-Dioxabicyclo[3.2.1]octane, 1... | 142 | C8H14O2   | 028401-39-0  | 22   |
| 3    |    | 7-Oxabicyclo[4.1.0]heptan-1-ol, ... | 156 | C8H12O3   | 014161-46-7  | 22   |
| 4    |    | Cyclohexanemethylamine              | 113 | C7H15N    | 003218-02-8  | 15   |
| 5    |    | 6-Dodecanone                        | 184 | C12H24O   | 006064-27-3  | 14   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

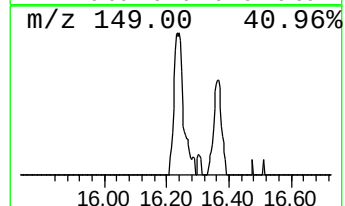
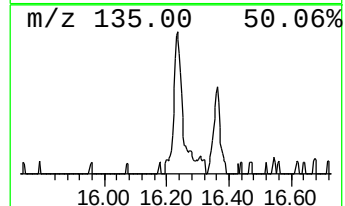
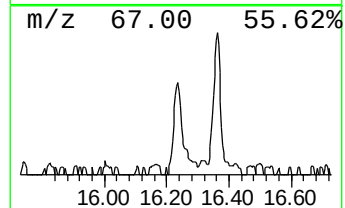
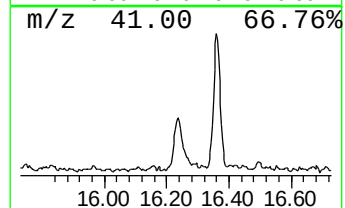
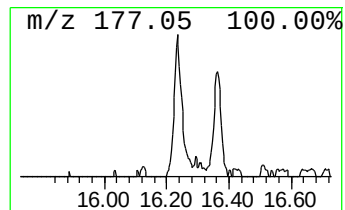
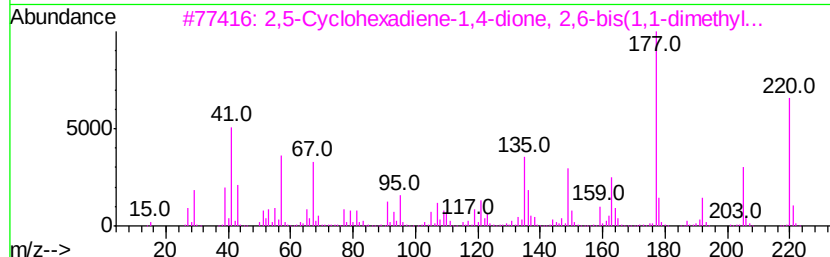
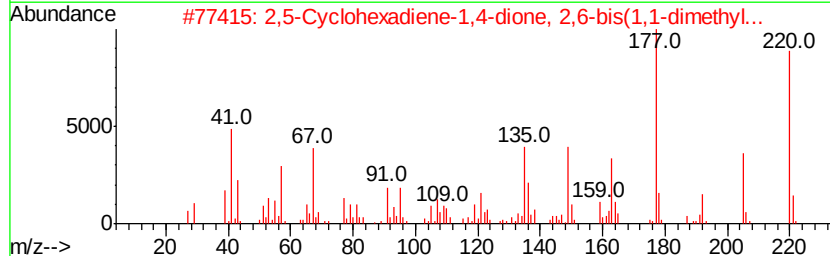
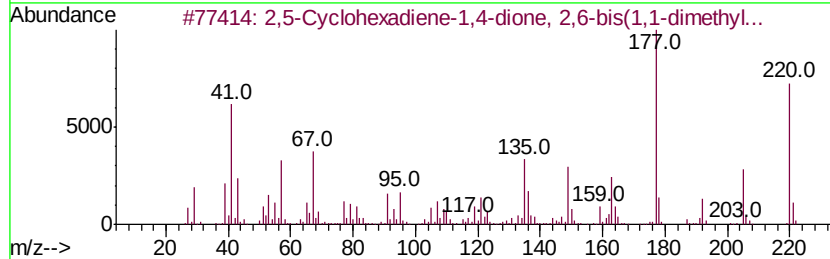
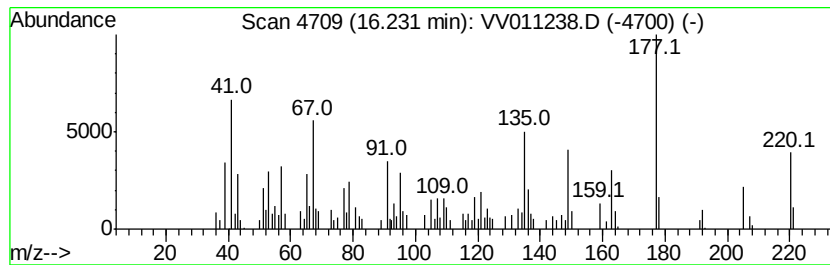
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 2,5-Cyclohexadiene-1,4-dione... Concentration Rank 14

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 16.23 | 0.56 ug/L | 54724 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2  | 95   |
| 2    |    | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2  | 94   |
| 3    |    | 2,5-Cyclohexadiene-1,4-dione, 2,... | 220 | C14H20O2 | 000719-22-2  | 93   |
| 4    |    | Calarene epoxide                    | 220 | C15H24O  | 1000151-46-0 | 42   |
| 5    |    | 4(1H)-Pteridinone, 2-amino-7-met... | 177 | C7H7N5O  | 013040-58-9  | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV060519\  
Data File : VV011238.D  
Acq On : 05 Jun 2019 19:02  
Operator : SY/MD  
Sample : K3197-10  
Misc : 25ML/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
F9P54

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

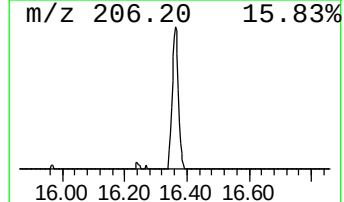
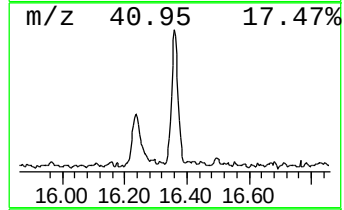
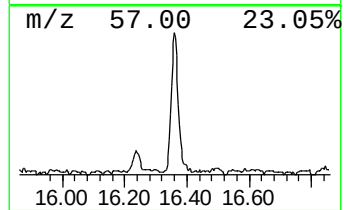
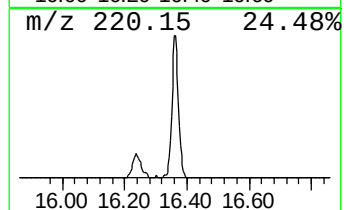
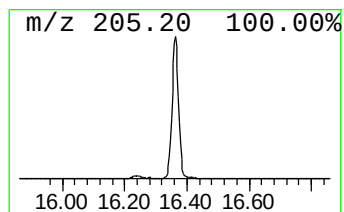
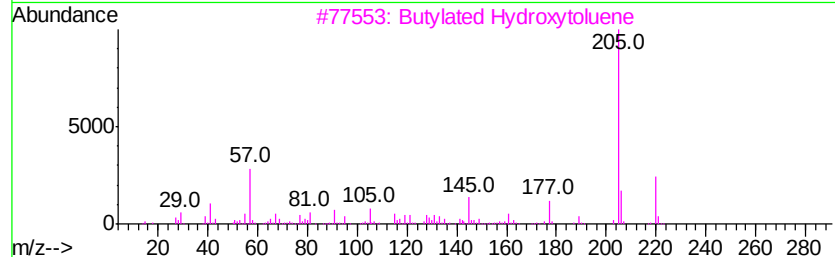
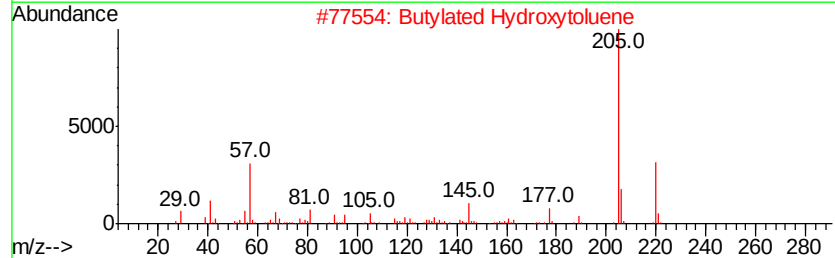
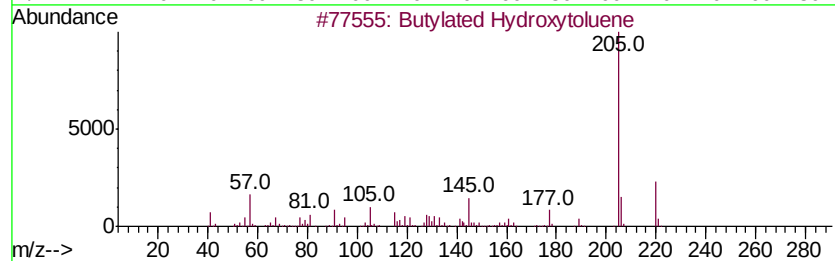
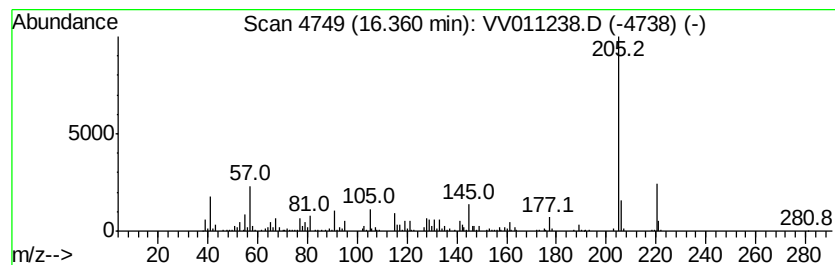
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Butylated Hydroxytoluene Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 16.36 | 1.92 ug/L | 186645 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butylated Hydroxytoluene            | 220 | C15H24O | 000128-37-0 | 98   |
| 2    |    | Butylated Hydroxytoluene            | 220 | C15H24O | 000128-37-0 | 95   |
| 3    |    | Butylated Hydroxytoluene            | 220 | C15H24O | 000128-37-0 | 94   |
| 4    |    | Butylated Hydroxytoluene            | 220 | C15H24O | 000128-37-0 | 94   |
| 5    |    | Phenol, 4,6-di(1,1-dimethylethyl... | 220 | C15H24O | 000616-55-7 | 90   |





Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV060519\  
 Data File : VV011238.D  
 Acq On : 05 Jun 2019 19:02  
 Operator : SY/MD  
 Sample : K3197-10  
 Misc : 25ML/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9P54

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |        |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|--------|------|
|                      |       |         |       |          | #                       | RT    | Resp   | Conc |
| Sulfur dioxide       | 1.24  | 18.4    | ug/L  | 1531910  | 1                       | 5.66  | 416483 | 5.0  |
| unknown-01           | 3.76  | 0.6     | ug/L  | 49284    | 1                       | 5.66  | 416483 | 5.0  |
| 2-Butanone, 3,3-d... | 6.63  | 1.2     | ug/L  | 96271    | 1                       | 5.66  | 416483 | 5.0  |
| 5-t-Butyl-4-methy... | 9.14  | 1.1     | ug/L  | 116079   | 2                       | 8.90  | 536264 | 5.0  |
| 2-Heptanone          | 9.75  | 1.2     | ug/L  | 126880   | 2                       | 8.90  | 536264 | 5.0  |
| 2-Octanone           | 11.08 | 2.1     | ug/L  | 208009   | 3                       | 11.29 | 487000 | 5.0  |
| Octanal              | 11.19 | 0.9     | ug/L  | 87553    | 3                       | 11.29 | 487000 | 5.0  |
| 1-Hexanol, 2-ethyl-  | 11.58 | 0.9     | ug/L  | 85379    | 3                       | 11.29 | 487000 | 5.0  |
| 2-Nonanone           | 12.28 | 1.5     | ug/L  | 141533   | 3                       | 11.29 | 487000 | 5.0  |
| Nonanal              | 12.39 | 1.3     | ug/L  | 130685   | 3                       | 11.29 | 487000 | 5.0  |
| unknown-02           | 13.68 | 0.9     | ug/L  | 88827    | 3                       | 11.29 | 487000 | 5.0  |
| 2,5-Cyclohexadien... | 16.23 | 0.6     | ug/L  | 54724    | 3                       | 11.29 | 487000 | 5.0  |
| Butylated Hydroxy... | 16.36 | 1.9     | ug/L  | 186645   | 3                       | 11.29 | 487000 | 5.0  |