

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072320\  
 Data File : BM026852.D  
 Acq On : 23 Jul 2020 15:41  
 Operator : JU/CG  
 Sample : L3380-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 VNJ-221

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM070820.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 4.925       | 365           | 372         | 384          | rBV      | 1471347        | 2098612       | 76.11%          | 12.504%       |
| 2         | 6.495       | 630           | 639         | 652          | rBV      | 1471139        | 2222284       | 80.59%          | 13.241%       |
| 3         | 7.278       | 764           | 772         | 781          | rBV      | 466570         | 686639        | 24.90%          | 4.091%        |
| 4         | 8.431       | 961           | 968         | 979          | rBV      | 909959         | 1445685       | 52.43%          | 8.614%        |
| 5         | 10.036      | 1229          | 1241        | 1249         | rVB      | 561738         | 959568        | 34.80%          | 5.717%        |
| 6         | 12.348      | 1629          | 1634        | 1639         | rBV4     | 329517         | 697310        | 25.29%          | 4.155%        |
| 7         | 12.513      | 1659          | 1662        | 1665         | rBV3     | 276643         | 437657        | 15.87%          | 2.608%        |
| 8         | 12.554      | 1665          | 1669        | 1676         | rVB      | 1954354        | 2757502       | 100.00%         | 16.430%       |
| 9         | 13.219      | 1778          | 1782        | 1787         | rVB4     | 686517         | 1106945       | 40.14%          | 6.596%        |
| 10        | 13.630      | 1849          | 1852        | 1857         | rVB3     | 889378         | 1119174       | 40.59%          | 6.668%        |
| 11        | 21.795      | 3237          | 3240        | 3247         | rVB      | 1437727        | 1862132       | 67.53%          | 11.095%       |
| 12        | 23.018      | 3445          | 3448        | 3453         | rVB      | 946154         | 1389632       | 50.39%          | 8.280%        |

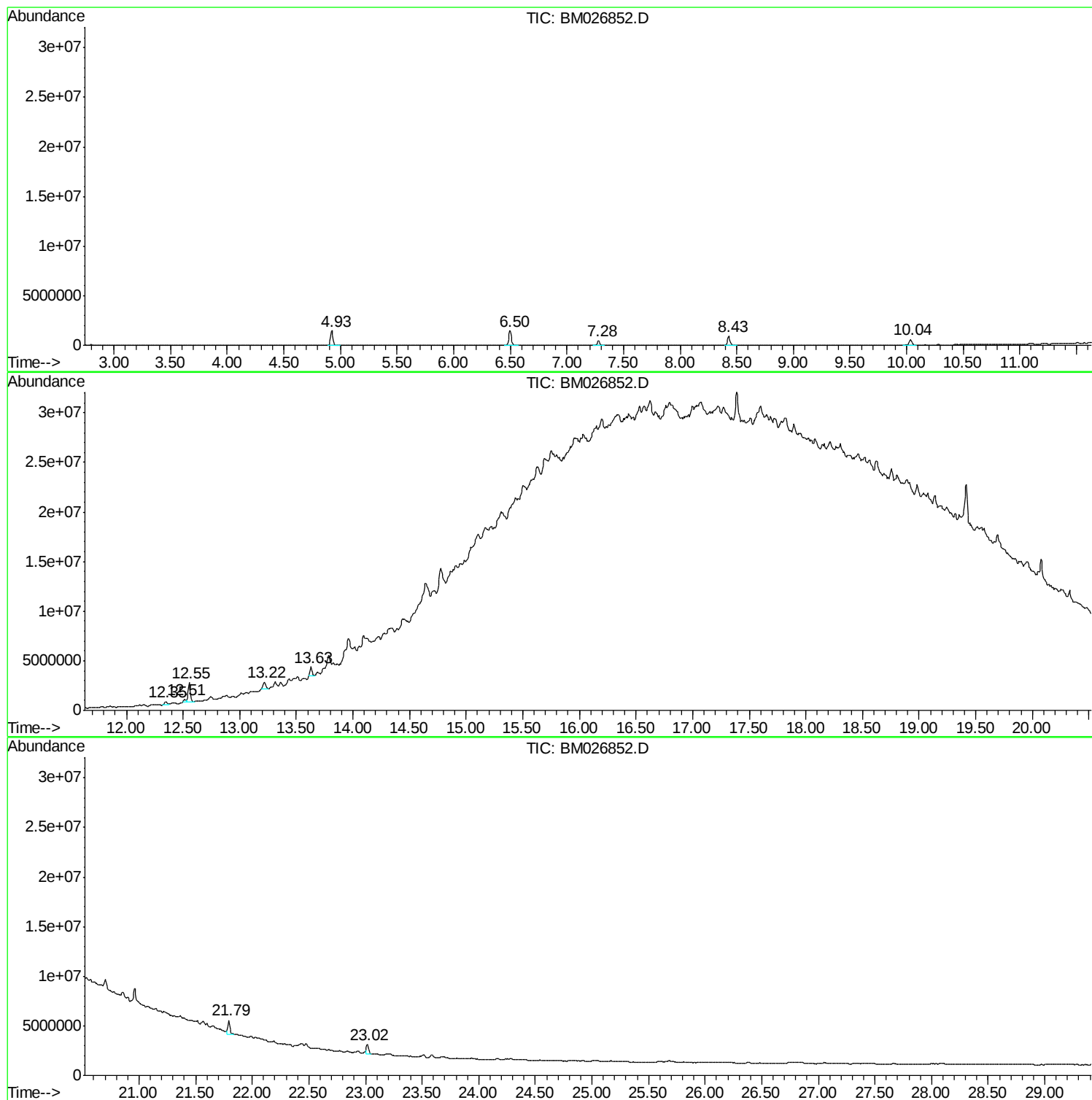
Sum of corrected areas: 16783140

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM070820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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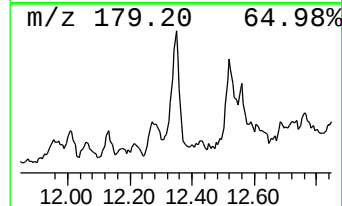
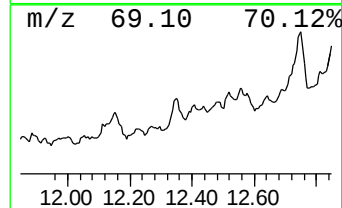
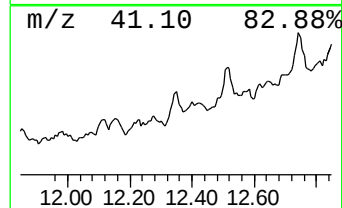
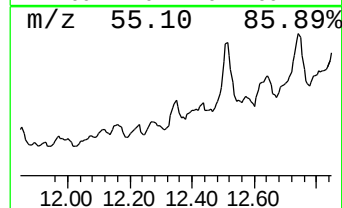
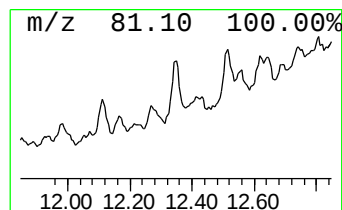
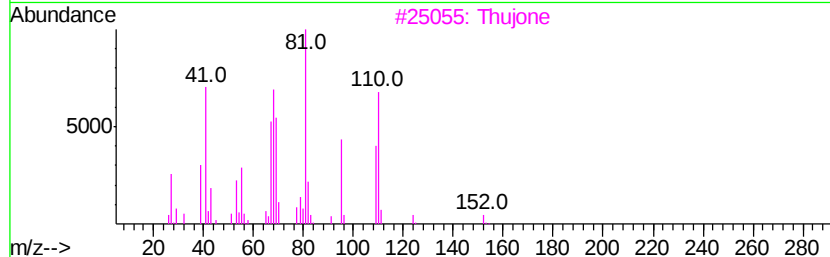
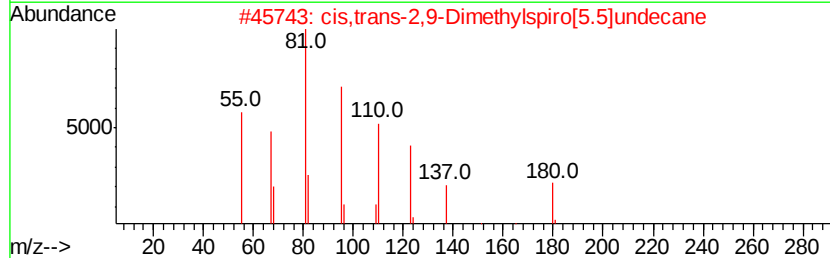
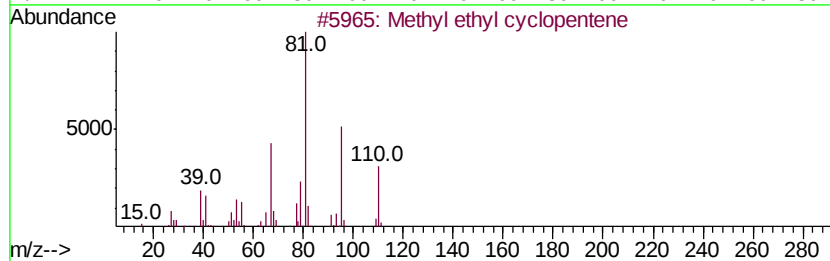
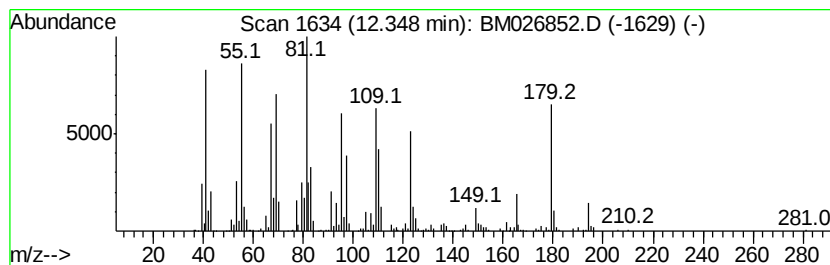
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Methyl ethyl cyclopentene Concentration Rank 4

| R.T.    | EstConc  | Area                                     | Relative to ISTD | R.T.    |             |      |
|---------|----------|------------------------------------------|------------------|---------|-------------|------|
| 12.35   | 12.46 ng | 697310                                   | Acenaphthene-d10 | 13.96   |             |      |
| Hit# of | 5        | Tentative ID                             | MW               | MolForm | CAS#        | Qual |
| 1       |          | Methyl ethyl cyclopentene                | 110              | C8H14   | 019780-56-4 | 50   |
| 2       |          | cis,trans-2,9-Dimethylspiro[5.5]undecane | 180              | C13H24  | 095530-74-8 | 49   |
| 3       |          | Thujone                                  | 152              | C10H16O | 000546-80-5 | 43   |
| 4       |          | 2,6-Heptadienal, 2,4-dimethyl-           | 138              | C9H14O  | 085136-08-9 | 25   |
| 5       |          | 2,4-Hexadiene, 2,3-dimethyl-             | 110              | C8H14   | 005678-98-8 | 20   |



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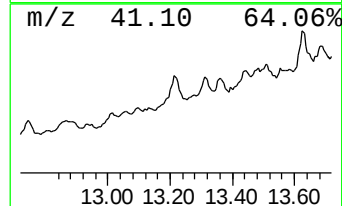
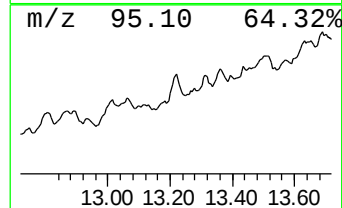
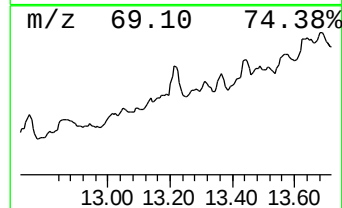
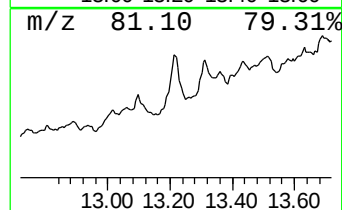
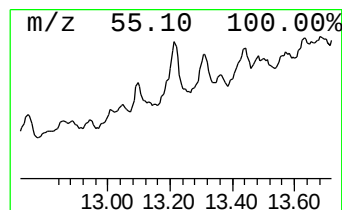
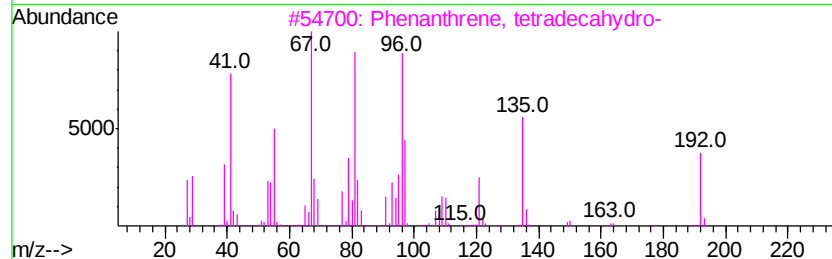
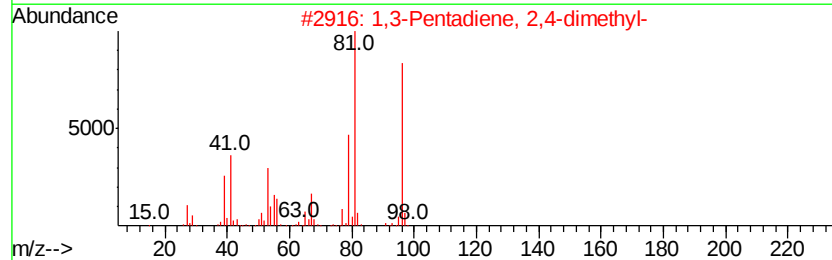
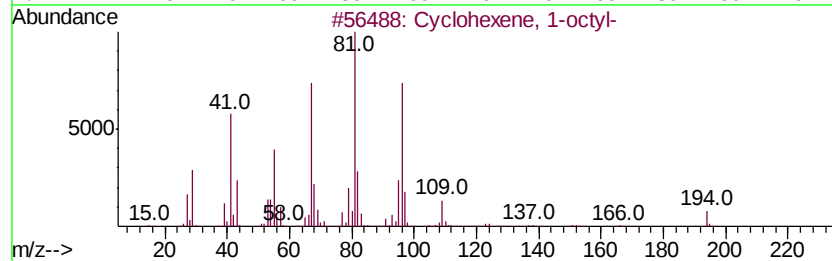
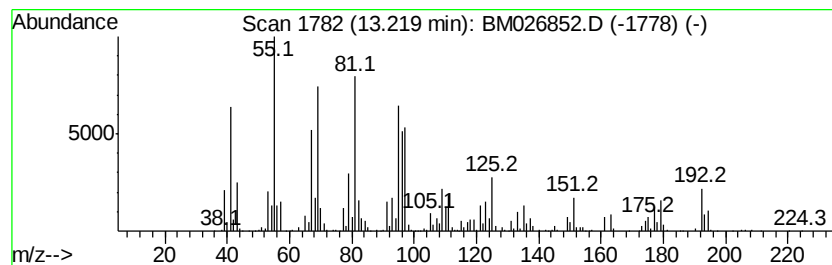
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Peak Number 2 unknown13.22 Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.22 | 19.78 ng | 1106950 | Acenaphthene-d10 | 13.96 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexene, 1-octyl-         | 194 | C14H26  | 015232-87-8 | 35   |
| 2    |    | 1,3-Pentadiene, 2,4-dimethyl- | 96  | C7H12   | 001000-86-8 | 30   |
| 3    |    | Phenanthrene, tetradecahydro- | 192 | C14H24  | 005743-97-5 | 30   |
| 4    |    | 1,4-Hexadiene, 5-methyl-      | 96  | C7H12   | 000763-88-2 | 25   |
| 5    |    | Isomycorene                   | 136 | C10H16  | 006876-07-9 | 25   |



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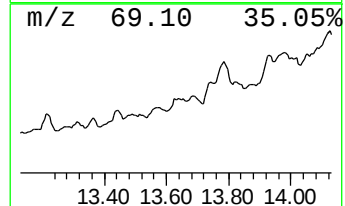
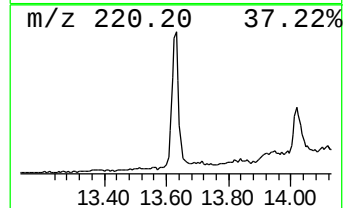
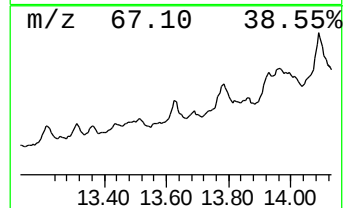
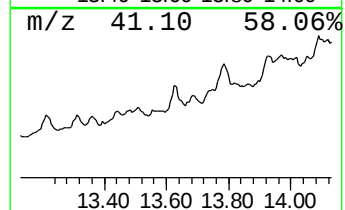
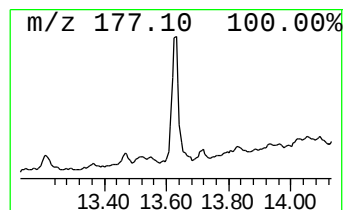
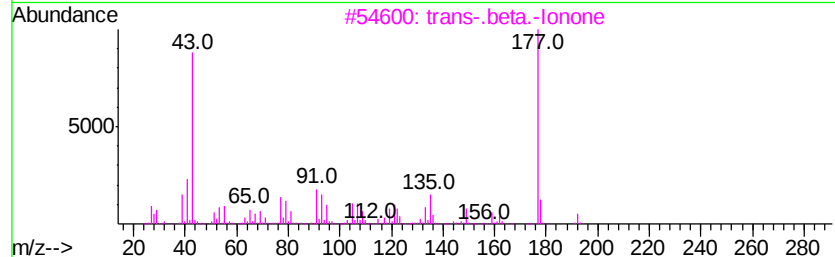
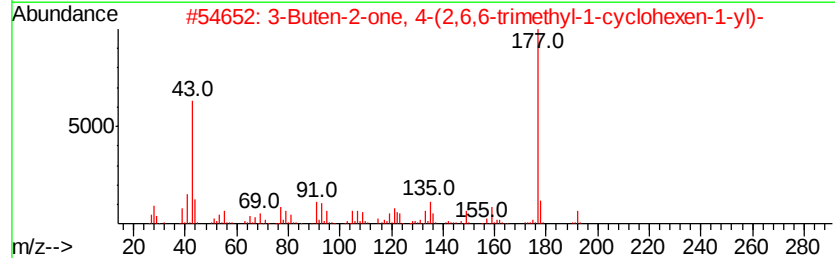
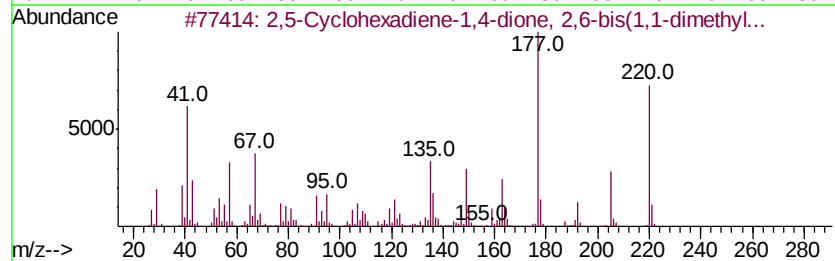
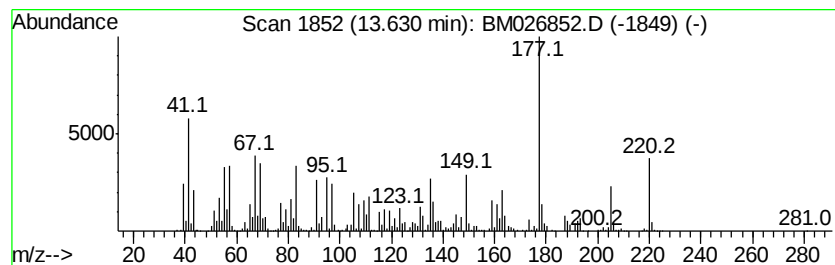
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 2,5-Cyclohexadiene-1,4-dione... Concentration Rank 1

| R.T.    | EstConc                              | Area         | Relative to ISTD | R.T.        |      |      |
|---------|--------------------------------------|--------------|------------------|-------------|------|------|
| 13.63   | 20.00 ng                             | 1119170      | Acenaphthene-d10 | 13.96       |      |      |
| Hit# of | 5                                    | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 2,5-Cyclohexadiene-1,4-dione, 2,...  | 220          | C14H20O2         | 000719-22-2 | 91   |      |
| 2       | 3-Buten-2-one, 4-(2,6,6-trimethyl... | 192          | C13H20O          | 014901-07-6 | 46   |      |
| 3       | trans-.beta.-Ionone                  | 192          | C13H20O          | 000079-77-6 | 45   |      |
| 4       | 2-Butanone, 3-(4-tert-butylpheno...  | 220          | C14H20O2         | 160875-28-5 | 45   |      |
| 5       | 1,4-Benzenediamine, N,N'-bis(1-m...  | 192          | C12H20N2         | 004251-01-8 | 43   |      |



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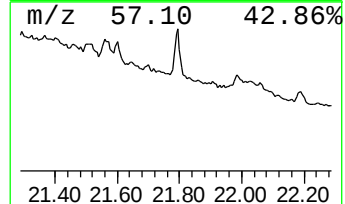
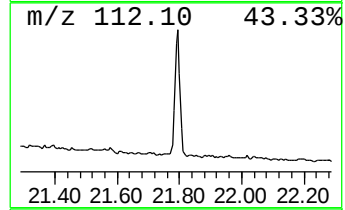
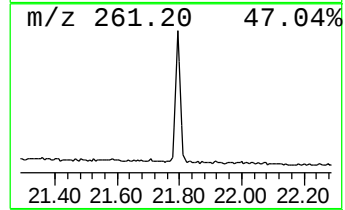
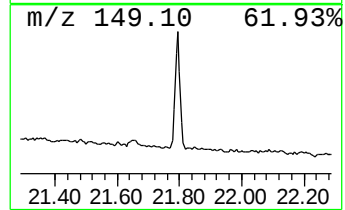
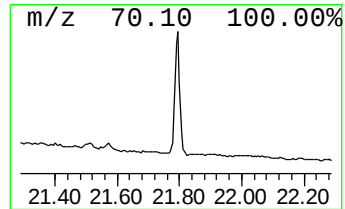
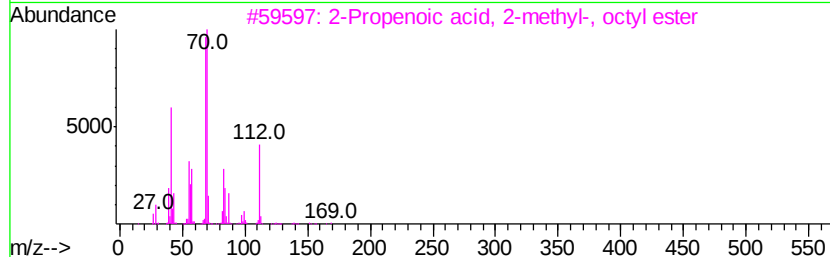
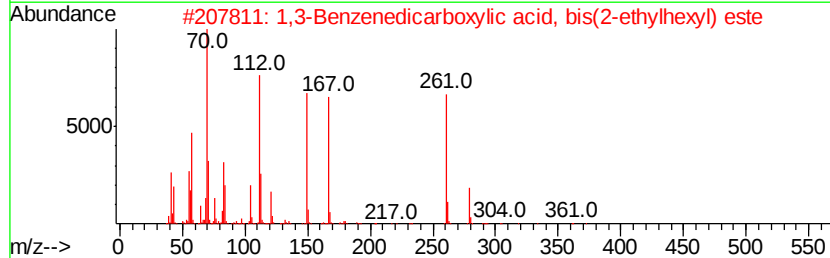
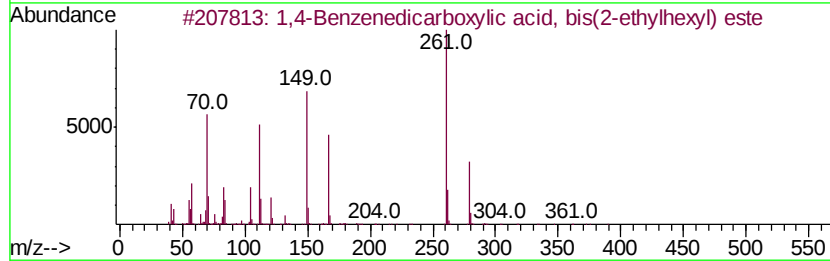
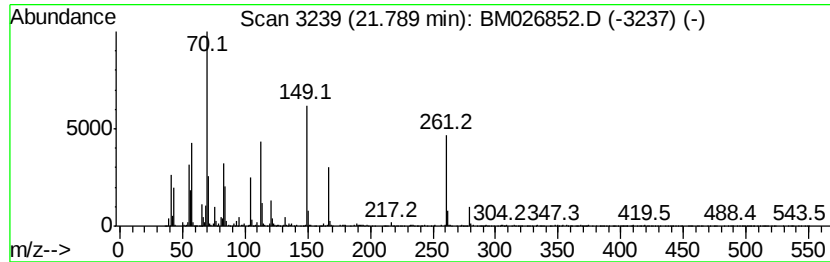
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\*\*\*\*\*  
Peak Number 4 1,4-Benzenedicarboxylic aci... Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 21.79 | 20.00 ng | 1862130 | Chrysene-d12     | 20.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,4-Benzenedicarboxylic acid, bi... | 390 | C24H38O4 | 006422-86-2  | 53   |
| 2    |    | 1,3-Benzenedicarboxylic acid, bi... | 390 | C24H38O4 | 000137-89-3  | 52   |
| 3    |    | 2-Propenoic acid, 2-methyl-, oct... | 198 | C12H22O2 | 002157-01-9  | 38   |
| 4    |    | Isophthalic acid, 3-methylbut-2-... | 348 | C21H32O4 | 1000344-72-4 | 27   |
| 5    |    | Terephthalic acid, di(4-octyl) e... | 390 | C24H38O4 | 1000323-74-2 | 27   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Methyl ethyl cycl... | 12.35 | 12.5    | ng    | 697310   | 3                     | 13.96 | 1119170 | 20.0 |
| unknown13.22         | 13.22 | 19.8    | ng    | 1106950  | 3                     | 13.96 | 1119170 | 20.0 |
| 2,5-Cyclohexadien... | 13.63 | 20.0    | ng    | 1119170  | 3                     | 13.96 | 1119170 | 20.0 |
| 1,4-Benzenedicarb... | 21.79 | 20.0    | ng    | 1862130  | 5                     | 20.97 | 1862130 | 20.0 |