

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101416\  
 Data File : BG024372.D  
 Acq On : 15 Oct 2016 4:26  
 Operator : UM/SJ  
 Sample : H5239-09  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC751

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.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         | 3.002       | 24            | 28          | 39           | rVB5     | 73768          | 169542        | 1.95%           | 0.259%        |
| 2         | 3.284       | 75            | 76          | 85           | rVB6     | 27912          | 44993         | 0.52%           | 0.069%        |
| 3         | 3.607       | 129           | 131         | 137          | rVB7     | 17084          | 20404         | 0.23%           | 0.031%        |
| 4         | 4.407       | 266           | 267         | 273          | rVB4     | 12407          | 16226         | 0.19%           | 0.025%        |
| 5         | 4.777       | 328           | 330         | 332          | rBV3     | 10548          | 11257         | 0.13%           | 0.017%        |
| 6         | 5.123       | 386           | 389         | 393          | rVB4     | 13100          | 16920         | 0.19%           | 0.026%        |
| 7         | 5.740       | 493           | 494         | 499          | rVB5     | 14495          | 13266         | 0.15%           | 0.020%        |
| 8         | 5.928       | 523           | 526         | 530          | rVB5     | 10364          | 17677         | 0.20%           | 0.027%        |
| 9         | 5.975       | 530           | 534         | 537          | rBV5     | 10031          | 16332         | 0.19%           | 0.025%        |
| 10        | 6.116       | 554           | 558         | 564          | rVB7     | 9309           | 18585         | 0.21%           | 0.028%        |
| 11        | 6.674       | 648           | 653         | 655          | rBV5     | 9238           | 14965         | 0.17%           | 0.023%        |
| 12        | 7.197       | 740           | 742         | 748          | rBV7     | 11540          | 18425         | 0.21%           | 0.028%        |
| 13        | 7.409       | 771           | 778         | 793          | rVB2     | 136861         | 249635        | 2.87%           | 0.382%        |
| 14        | 7.597       | 801           | 810         | 822          | rVB      | 308123         | 576123        | 6.63%           | 0.882%        |
| 15        | 7.803       | 838           | 845         | 853          | rBV      | 366095         | 665481        | 7.66%           | 1.019%        |
| 16        | 8.008       | 878           | 880         | 884          | rBV5     | 7906           | 12599         | 0.15%           | 0.019%        |
| 17        | 8.108       | 893           | 897         | 900          | rVB4     | 9035           | 15440         | 0.18%           | 0.024%        |
| 18        | 8.132       | 900           | 901         | 906          | rBV4     | 8435           | 11967         | 0.14%           | 0.018%        |
| 19        | 8.220       | 913           | 916         | 919          | rBV4     | 8374           | 13270         | 0.15%           | 0.020%        |
| 20        | 8.284       | 919           | 927         | 938          | rVV      | 1376952        | 2437336       | 28.05%          | 3.731%        |
| 21        | 8.796       | 1005          | 1014        | 1021         | rBV8     | 29544          | 61605         | 0.71%           | 0.094%        |
| 22        | 8.966       | 1034          | 1043        | 1052         | rBV      | 359354         | 653715        | 7.52%           | 1.001%        |
| 23        | 9.054       | 1056          | 1058        | 1062         | rVB4     | 9139           | 11527         | 0.13%           | 0.018%        |
| 24        | 9.083       | 1062          | 1063        | 1072         | rBV8     | 9373           | 19849         | 0.23%           | 0.030%        |
| 25        | 9.459       | 1119          | 1127        | 1133         | rBV2     | 455822         | 853326        | 9.82%           | 1.306%        |
| 26        | 9.512       | 1134          | 1136        | 1140         | rVB5     | 15878          | 18259         | 0.21%           | 0.028%        |
| 27        | 9.577       | 1144          | 1147        | 1150         | rVB5     | 9456           | 10514         | 0.12%           | 0.016%        |
| 28        | 9.600       | 1150          | 1151        | 1158         | rVB7     | 8072           | 14963         | 0.17%           | 0.023%        |
| 29        | 10.035      | 1221          | 1225        | 1229         | rVB7     | 8663           | 12364         | 0.14%           | 0.019%        |
| 30        | 10.076      | 1229          | 1232        | 1237         | rBV5     | 6421           | 10471         | 0.12%           | 0.016%        |
| 31        | 10.182      | 1239          | 1250        | 1259         | rBV2     | 409115         | 758243        | 8.73%           | 1.161%        |
| 32        | 10.358      | 1275          | 1280        | 1284         | rVB6     | 22807          | 33454         | 0.39%           | 0.051%        |
| 33        | 10.717      | 1331          | 1341        | 1349         | rBV      | 579630         | 1072423       | 12.34%          | 1.641%        |
| 34        | 11.110      | 1399          | 1408        | 1421         | rVB      | 1994386        | 3801820       | 43.76%          | 5.819%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 11.246 | 1421 | 1431 | 1434 | rBV10 | 16949   | 38051   | 0.44%  | 0.058% |
| 36 | 11.769 | 1516 | 1520 | 1526 | rBV6  | 11190   | 18960   | 0.22%  | 0.029% |
| 37 | 11.839 | 1526 | 1532 | 1539 | rVB8  | 18732   | 32943   | 0.38%  | 0.050% |
| 38 | 12.239 | 1596 | 1600 | 1603 | rVB5  | 7818    | 10650   | 0.12%  | 0.016% |
| 39 | 12.356 | 1616 | 1620 | 1627 | rBV9  | 10834   | 22875   | 0.26%  | 0.035% |
| 40 | 12.415 | 1627 | 1630 | 1637 | rVB7  | 10045   | 23118   | 0.27%  | 0.035% |
| 41 | 12.509 | 1640 | 1646 | 1648 | rBV7  | 6892    | 13317   | 0.15%  | 0.020% |
| 42 | 12.544 | 1648 | 1652 | 1660 | rVB9  | 8840    | 19454   | 0.22%  | 0.030% |
| 43 | 12.679 | 1667 | 1675 | 1679 | rBV7  | 16654   | 35524   | 0.41%  | 0.054% |
| 44 | 13.014 | 1729 | 1732 | 1735 | rBV5  | 9313    | 11559   | 0.13%  | 0.018% |
| 45 | 13.073 | 1737 | 1742 | 1743 | rBV4  | 6949    | 10742   | 0.12%  | 0.016% |
| 46 | 13.096 | 1743 | 1746 | 1750 | rVB5  | 7246    | 10840   | 0.12%  | 0.017% |
| 47 | 13.137 | 1750 | 1753 | 1758 | rBV5  | 8709    | 17909   | 0.21%  | 0.027% |
| 48 | 13.226 | 1764 | 1768 | 1771 | rBV4  | 14062   | 22035   | 0.25%  | 0.034% |
| 49 | 13.496 | 1811 | 1814 | 1821 | rVB6  | 20750   | 27120   | 0.31%  | 0.042% |
| 50 | 13.760 | 1851 | 1859 | 1866 | rBV6  | 11514   | 26015   | 0.30%  | 0.040% |
| 51 | 14.289 | 1937 | 1949 | 1955 | rBV   | 1260352 | 1876472 | 21.60% | 2.872% |
| 52 | 14.336 | 1955 | 1957 | 1964 | rVB   | 90087   | 105838  | 1.22%  | 0.162% |
| 53 | 14.448 | 1974 | 1976 | 1983 | rVB7  | 10826   | 22650   | 0.26%  | 0.035% |
| 54 | 14.530 | 1983 | 1990 | 1994 | rBV   | 99521   | 157557  | 1.81%  | 0.241% |
| 55 | 14.595 | 1994 | 2001 | 2011 | rVB   | 1250165 | 2036718 | 23.44% | 3.117% |
| 56 | 14.753 | 2021 | 2028 | 2032 | rVB10 | 9683    | 17262   | 0.20%  | 0.026% |
| 57 | 14.900 | 2040 | 2053 | 2063 | rBV   | 3697305 | 5988333 | 68.92% | 9.166% |
| 58 | 15.059 | 2073 | 2080 | 2089 | rBV2  | 179012  | 313362  | 3.61%  | 0.480% |
| 59 | 15.259 | 2108 | 2114 | 2120 | rBV10 | 25367   | 47198   | 0.54%  | 0.072% |
| 60 | 15.699 | 2184 | 2189 | 2194 | rVB5  | 35179   | 52951   | 0.61%  | 0.081% |
| 61 | 15.740 | 2195 | 2196 | 2201 | rVB5  | 10457   | 13442   | 0.15%  | 0.021% |
| 62 | 15.805 | 2201 | 2207 | 2209 | rBV6  | 15466   | 28510   | 0.33%  | 0.044% |
| 63 | 15.840 | 2209 | 2213 | 2215 | rVV   | 109466  | 136034  | 1.57%  | 0.208% |
| 64 | 15.881 | 2215 | 2220 | 2228 | rVB   | 1718473 | 2775109 | 31.94% | 4.248% |
| 65 | 15.987 | 2230 | 2238 | 2248 | rBV   | 624786  | 978017  | 11.26% | 1.497% |
| 66 | 16.075 | 2250 | 2253 | 2255 | rBV3  | 13444   | 12598   | 0.15%  | 0.019% |
| 67 | 16.116 | 2255 | 2260 | 2265 | rVV7  | 21211   | 44623   | 0.51%  | 0.068% |
| 68 | 16.163 | 2267 | 2268 | 2272 | rVB4  | 15083   | 11436   | 0.13%  | 0.018% |
| 69 | 16.246 | 2276 | 2282 | 2292 | rBV   | 168795  | 261854  | 3.01%  | 0.401% |
| 70 | 16.316 | 2292 | 2294 | 2303 | rVB8  | 18465   | 34665   | 0.40%  | 0.053% |
| 71 | 16.416 | 2303 | 2311 | 2312 | rBV8  | 12191   | 28118   | 0.32%  | 0.043% |

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Max Peaks: 100  
Peak Location: TOP

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Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |       |         |         |         |         |
|-----|--------|------|------|------|-------|---------|---------|---------|---------|
| 72  | 16.445 | 2313 | 2316 | 2320 | rVB6  | 6659    | 10845   | 0.12%   | 0.017%  |
| 73  | 16.557 | 2330 | 2335 | 2342 | rVV6  | 35327   | 67837   | 0.78%   | 0.104%  |
| 74  | 16.745 | 2366 | 2367 | 2373 | rVB6  | 13476   | 16689   | 0.19%   | 0.026%  |
| 75  | 16.827 | 2375 | 2381 | 2382 | rBV6  | 19742   | 27020   | 0.31%   | 0.041%  |
| 76  | 16.910 | 2392 | 2395 | 2397 | rVB4  | 11021   | 12361   | 0.14%   | 0.019%  |
| 77  | 16.980 | 2398 | 2407 | 2416 | rVV4  | 15694   | 50525   | 0.58%   | 0.077%  |
| 78  | 17.051 | 2416 | 2419 | 2424 | rBV7  | 11644   | 15430   | 0.18%   | 0.024%  |
| 79  | 17.203 | 2441 | 2445 | 2448 | rBV6  | 8147    | 12271   | 0.14%   | 0.019%  |
| 80  | 17.350 | 2465 | 2470 | 2473 | rBV4  | 34135   | 45168   | 0.52%   | 0.069%  |
| 81  | 17.427 | 2474 | 2483 | 2488 | rVV4  | 28032   | 63855   | 0.73%   | 0.098%  |
| 82  | 17.638 | 2512 | 2519 | 2528 | rBV2  | 4471252 | 7401459 | 85.19%  | 11.328% |
| 83  | 17.738 | 2528 | 2536 | 2548 | rVB   | 1938225 | 3008640 | 34.63%  | 4.605%  |
| 84  | 18.079 | 2593 | 2594 | 2597 | rBV3  | 16261   | 14539   | 0.17%   | 0.022%  |
| 85  | 18.196 | 2611 | 2614 | 2619 | rVB6  | 12464   | 18880   | 0.22%   | 0.029%  |
| 86  | 18.284 | 2625 | 2629 | 2630 | rVB4  | 12179   | 11323   | 0.13%   | 0.017%  |
| 87  | 18.320 | 2630 | 2635 | 2641 | rBV8  | 45885   | 76412   | 0.88%   | 0.117%  |
| 88  | 18.478 | 2657 | 2662 | 2673 | rBV   | 262376  | 367623  | 4.23%   | 0.563%  |
| 89  | 18.572 | 2673 | 2678 | 2683 | rVB7  | 22944   | 42323   | 0.49%   | 0.065%  |
| 90  | 18.807 | 2715 | 2718 | 2720 | rBV4  | 12426   | 14953   | 0.17%   | 0.023%  |
| 91  | 19.001 | 2748 | 2751 | 2754 | rBV5  | 12760   | 13272   | 0.15%   | 0.020%  |
| 92  | 19.601 | 2849 | 2853 | 2856 | rBV6  | 44040   | 66785   | 0.77%   | 0.102%  |
| 93  | 19.742 | 2873 | 2877 | 2885 | rBV3  | 254551  | 380221  | 4.38%   | 0.582%  |
| 94  | 19.894 | 2899 | 2903 | 2911 | rBV10 | 34363   | 90106   | 1.04%   | 0.138%  |
| 95  | 20.006 | 2915 | 2922 | 2934 | rVB   | 2351735 | 3499655 | 40.28%  | 5.356%  |
| 96  | 20.693 | 3034 | 3039 | 3056 | rVB   | 1700982 | 2414308 | 27.79%  | 3.695%  |
| 97  | 21.528 | 3176 | 3181 | 3188 | rBV9  | 81688   | 174106  | 2.00%   | 0.266%  |
| 98  | 21.939 | 3242 | 3251 | 3262 | rBV2  | 4730720 | 8535297 | 98.24%  | 13.064% |
| 99  | 25.141 | 3784 | 3796 | 3808 | rBV3  | 1073619 | 3218081 | 37.04%  | 4.926%  |
| 100 | 25.388 | 3825 | 3838 | 3851 | rVB2  | 2733835 | 8688265 | 100.00% | 13.298% |

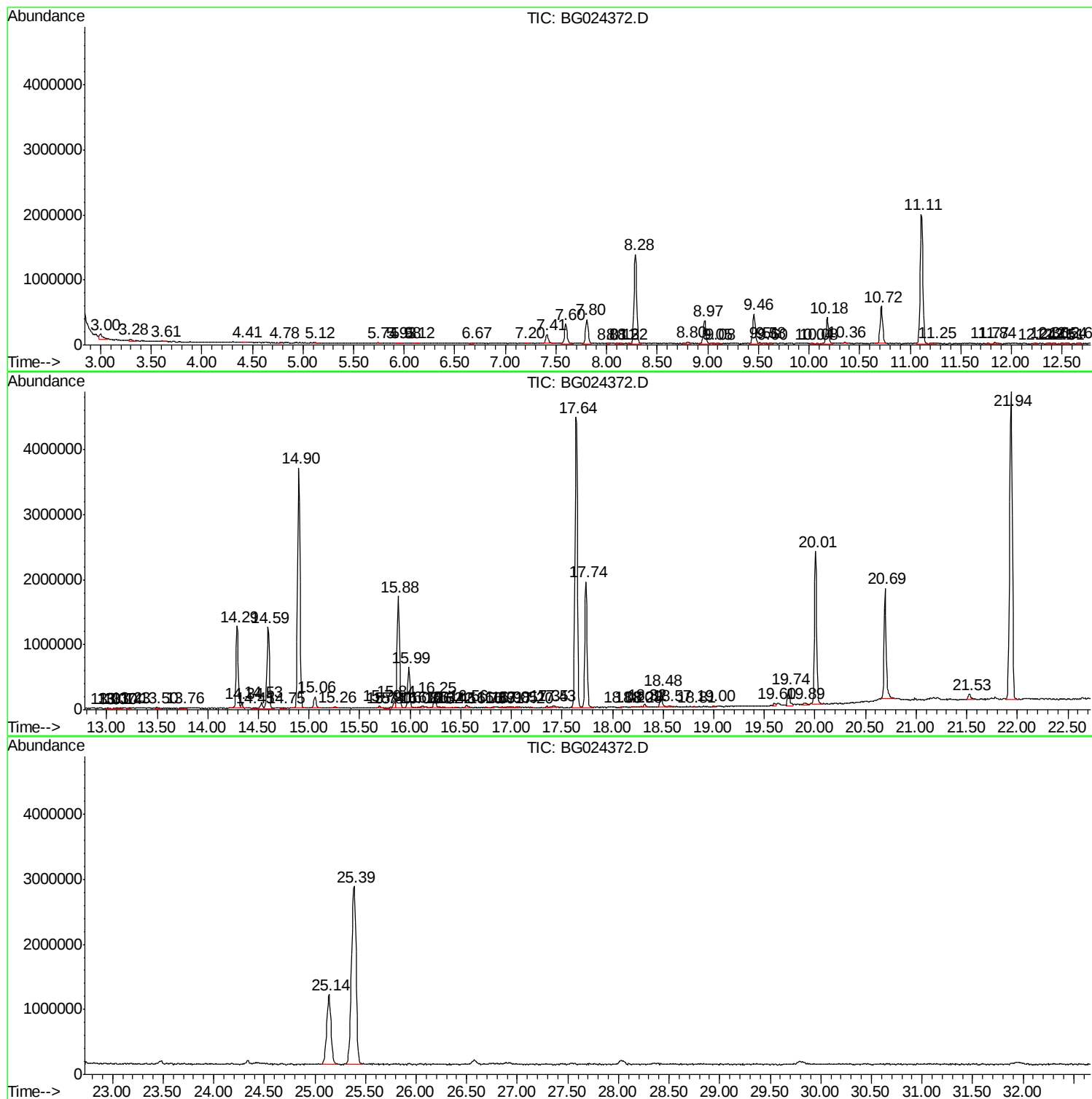
Sum of corrected areas: 65335084

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

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



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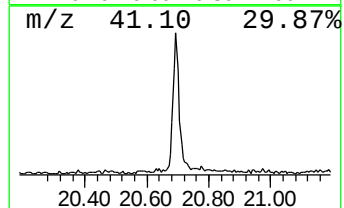
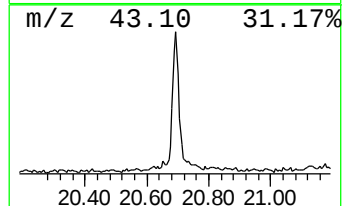
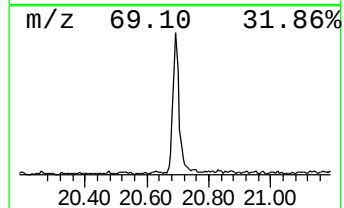
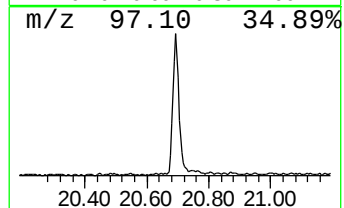
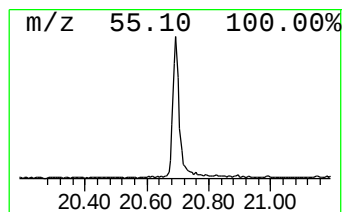
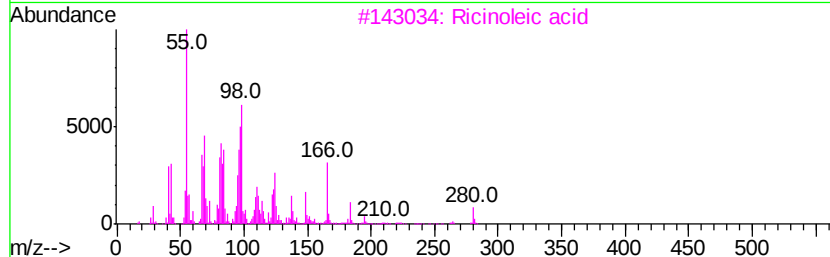
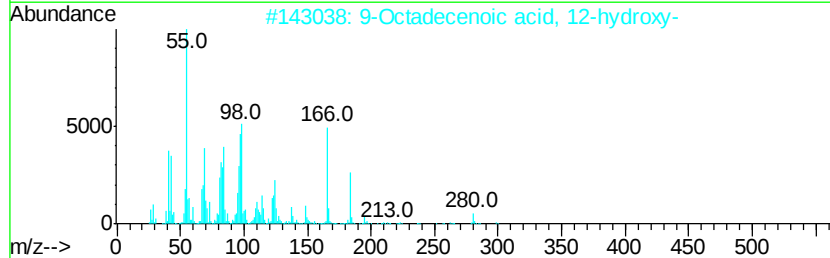
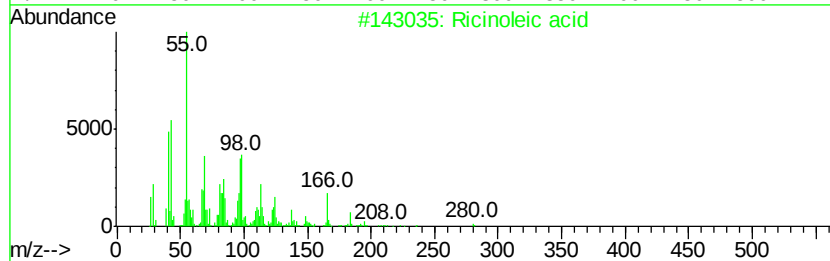
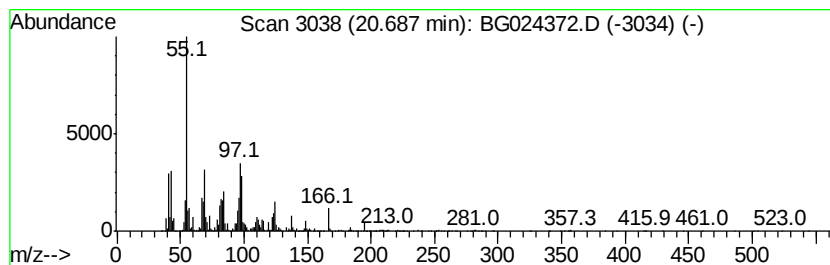
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Ricinoleic acid Concentration Rank 1

| R.T.    | EstConc    | Area                             | Relative to ISTD | R.T.        |             |      |
|---------|------------|----------------------------------|------------------|-------------|-------------|------|
| 20.69   | 5.66 ng/ul | 2414310                          | Chrysene-d12     | 21.94       |             |      |
| Hit# of | 5          | Tentative ID                     | MW               | MolForm     | CAS#        | Qual |
| 1       |            | Ricinoleic acid                  | 298              | C18H34O3    | 000141-22-0 | 87   |
| 2       |            | 9-Octadecenoic acid, 12-hydroxy- | 298              | C18H34O3    | 007431-95-0 | 72   |
| 3       |            | Ricinoleic acid                  | 298              | C18H34O3    | 000141-22-0 | 68   |
| 4       |            | Chloromethyl 9-chloroundecanoate | 268              | C12H22Cl2O2 | 080418-95-7 | 53   |
| 5       |            | Ricinoleic acid                  | 298              | C18H34O3    | 000141-22-0 | 49   |



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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc |
| Ricinoleic acid  | 20.69 | 5.7     | ng/ul | 2414310  | 5                     | 21.94 | 8535300 | 20.0 |