

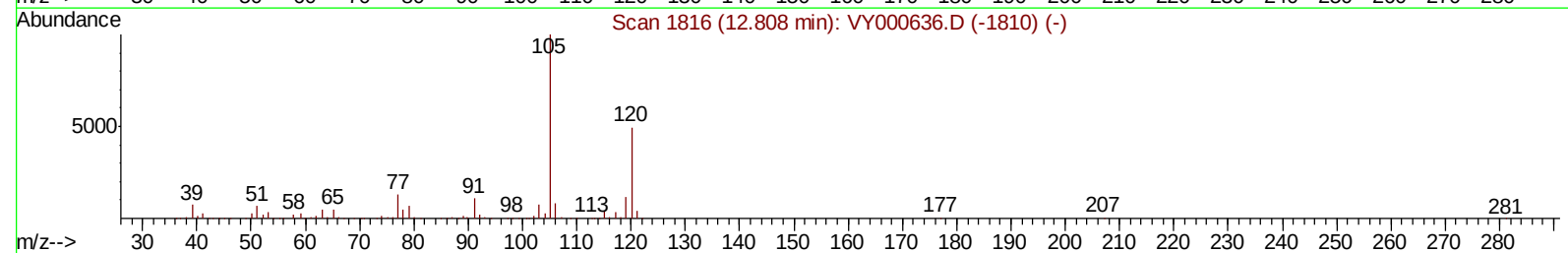
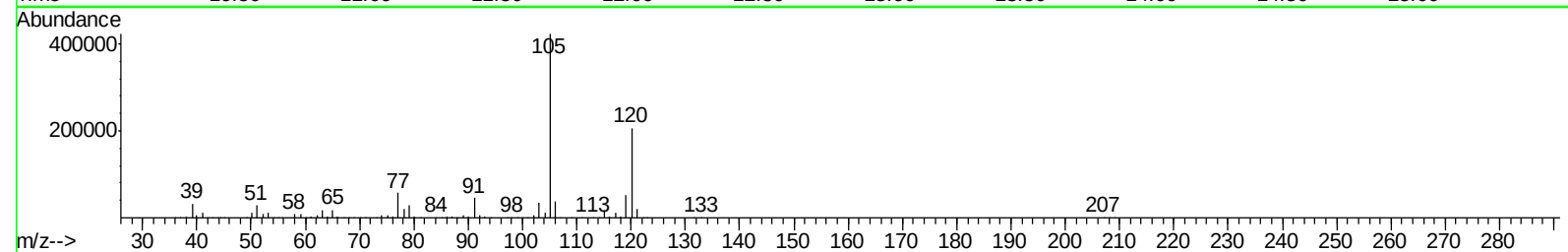
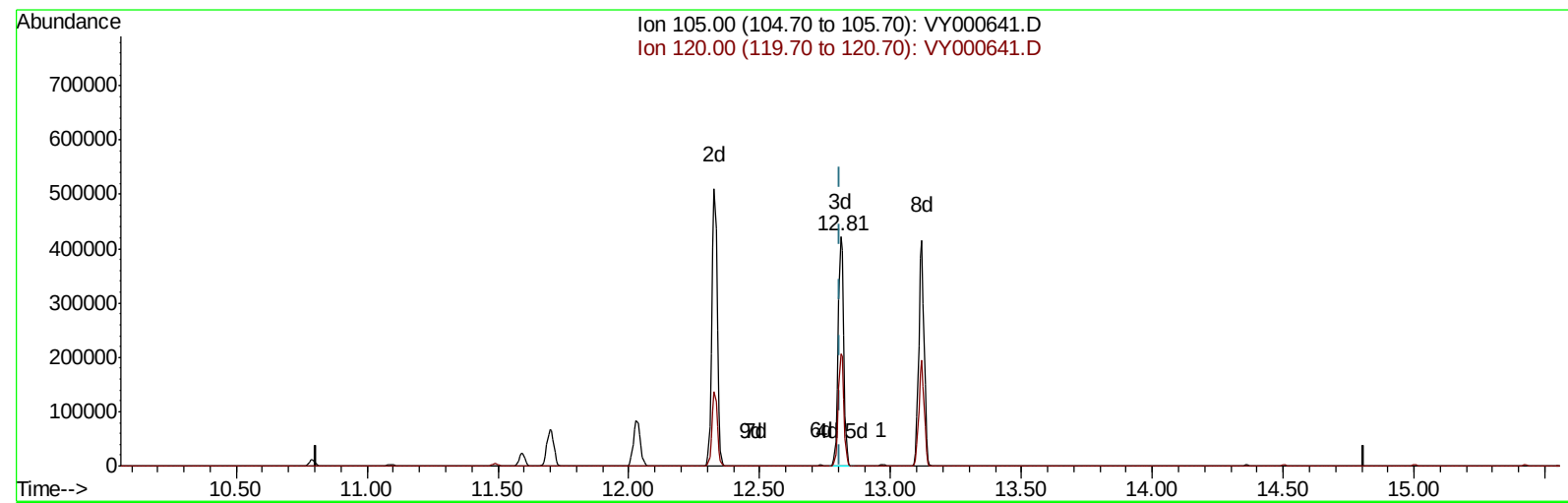
Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111119\  
Data File : VY000641.D  
Acq On : 11 Nov 2019 15:24  
Operator : SY/MD  
Sample : VSTDCCC025EC  
Misc : 5.00G/10ML/MSVOA Y/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC025EC

Manual Integrations  
APPROVED

MMDadoda  
11/13/2019 1:44:19 PM

Quant Time: Nov 12 04:53:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL110519SMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Nov 12 04:50:16 2019  
Response via : Initial Calibration



TIC: VY000641.D

(62) 1,3,5-Trimethylbenzene

12.808min (-0.000) 28.69ug/L m

response 619496

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 105.00 | 100   | 100   |
| 120.00 | 32.40 | 0.20# |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYLEM110519SMA.M

Quant Title : VOC Analysis

QLast Update : Tue Nov 12 04:50:16 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.69  | 114  | 369464   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 339953   | 25.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 165547   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.24   | 65    | 143352   | 25.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 101.88% |
| 7) Chloroethane-d5             | 2.76   | 69    | 125206   | 25.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.12% |
| 11) 1,1-Dichloroethene-d2      | 3.85   | 63    | 262580   | 26.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 107.52% |
| 21) 2-Butanone-d5              | 6.90   | 46    | 117173   | 47.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 94.82%  |
| 24) Chloroform-d               | 7.49   | 84    | 255632   | 26.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.20% |
| 26) 1,2-Dichloroethane-d4      | 8.14   | 65    | 151616   | 26.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 104.32% |
| 32) Benzene-d6                 | 8.11   | 84    | 534102   | 27.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 108.68% |
| 36) 1,2-Dichloropropane-d6     | 9.13   | 67    | 165595   | 27.64    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 110.56% |
| 41) Toluene-d8                 | 10.18  | 98    | 488253   | 26.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.88% |
| 43) trans-1,3-Dichloropropene- | 10.44  | 79    | 80954    | 26.77    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 107.08% |
| 47) 2-Hexanone-d5              | 10.79  | 63    | 99079    | 52.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.68% |
| 56) 1,1,2,2-Tetrachloroethane- | 12.56  | 84    | 166958   | 25.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 102.96% |
| 66) 1,2-Dichlorobenzene-d4     | 13.72  | 152   | 177309   | 27.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 109.68% |

#### Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.90 | 85  | 128989 | 25.120 ug/L | 98     |
| 3) Chloromethane               | 2.11 | 50  | 168697 | 25.020 ug/L | 96     |
| 5) Vinyl chloride              | 2.25 | 62  | 167788 | 26.651 ug/L | 100    |
| 6) Bromomethane                | 2.65 | 94  | 81168  | 28.162 ug/L | 90     |
| 8) Chloroethane                | 2.79 | 64  | 104405 | 26.872 ug/L | 94     |
| 9) Trichlorofluoromethane      | 3.13 | 101 | 242019 | 27.243 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.90 | 101 | 142703 | 27.667 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 3.87 | 96  | 135113 | 27.531 ug/L | 97     |
| 13) Acetone                    | 3.95 | 43  | 80900  | 34.313 ug/L | 96     |
| 14) Carbon disulfide           | 4.19 | 76  | 424168 | 27.254 ug/L | 100    |
| 15) Methyl Acetate             | 4.48 | 43  | 97625  | 23.236 ug/L | 97     |
| 16) Methylene chloride         | 4.72 | 84  | 151716 | 25.198 ug/L | 93     |
| 17) trans-1,2-Dichloroethene   | 5.22 | 96  | 149631 | 27.437 ug/L | 95     |
| 18) Methyl tert-butyl Ether    | 5.22 | 73  | 404690 | 26.040 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 6.02 | 63  | 260266 | 27.226 ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 6.99 | 96  | 163056 | 26.706 ug/L | 96     |
| 22) 2-Butanone                 | 6.99 | 43  | 147609 | 40.862 ug/L | 100    |

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Quant Time: Nov 12 05:37:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SFAMYL110519SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Nov 12 04:50:16 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 7.34  | 128  | 72031    | 26.243 | ug/L # | 88       |
| 25) Chloroform                 | 7.52  | 83   | 271189   | 27.468 | ug/L   | 98       |
| 27) 1,2-Dichloroethane         | 8.24  | 62   | 189104   | 26.815 | ug/L   | 98       |
| 29) Cyclohexane                | 7.78  | 56   | 262842   | 28.305 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane      | 7.71  | 97   | 230634   | 28.125 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 7.91  | 117  | 209126   | 27.655 | ug/L   | 99       |
| 33) Benzene                    | 8.16  | 78   | 618263   | 27.691 | ug/L   | 100      |
| 34) Trichloroethene            | 8.94  | 95   | 164830   | 27.975 | ug/L   | 98       |
| 35) Methylcyclohexane          | 9.19  | 83   | 279359   | 27.602 | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 9.22  | 63   | 155456   | 27.291 | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.50  | 83   | 200406   | 27.653 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene    | 9.93  | 75   | 254856   | 27.922 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 10.07 | 43   | 305429   | 48.658 | ug/L   | 99       |
| 42) Toluene                    | 10.24 | 91   | 665166   | 27.897 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 10.47 | 75   | 220123   | 27.290 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane      | 10.64 | 97   | 127431   | 26.353 | ug/L   | 92       |
| 46) Tetrachloroethene          | 10.72 | 164  | 122744   | 27.290 | ug/L   | 98       |
| 48) 2-Hexanone                 | 10.83 | 43   | 242783   | 49.477 | ug/L   | 100      |
| 49) Dibromochloromethane       | 10.99 | 129  | 146768   | 26.937 | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 11.09 | 107  | 128679   | 26.312 | ug/L   | 96       |
| 51) Chlorobenzene              | 11.52 | 112  | 414387   | 27.209 | ug/L   | 98       |
| 52) Ethylbenzene               | 11.59 | 91   | 762824   | 28.045 | ug/L   | 99       |
| 53) m,p-Xylene                 | 11.70 | 106  | 288452   | 27.675 | ug/L   | 96       |
| 54) o-Xylene                   | 12.03 | 106  | 275743   | 27.240 | ug/L   | 95       |
| 55) Styrene                    | 12.04 | 104  | 481331   | 28.117 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 165442   | 25.240 | ug/L   | 99       |
| 59) Bromoform                  | 12.20 | 173  | 91315    | 26.014 | ug/L   | 99       |
| 60) Isopropylbenzene           | 12.33 | 105  | 743730   | 28.222 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 12.63 | 75   | 133288   | 25.433 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 619496m  | 28.686 | ug/L   |          |
| 63) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 604620   | 28.392 | ug/L   | 94       |
| 64) 1,3-Dichlorobenzene        | 13.36 | 146  | 322729   | 27.320 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene        | 13.44 | 146  | 325238   | 27.364 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene        | 13.73 | 146  | 300537   | 27.165 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropropan | 14.36 | 75   | 31076    | 25.616 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene     | 14.50 | 180  | 234543   | 28.765 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 15.00 | 180  | 203844   | 27.448 | ug/L   | 98       |
| 71) Naphthalene                | 15.23 | 128  | 509826   | 26.277 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 189589   | 27.556 | ug/L   | 99       |
| -----                          |       |      |          |        |        |          |

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

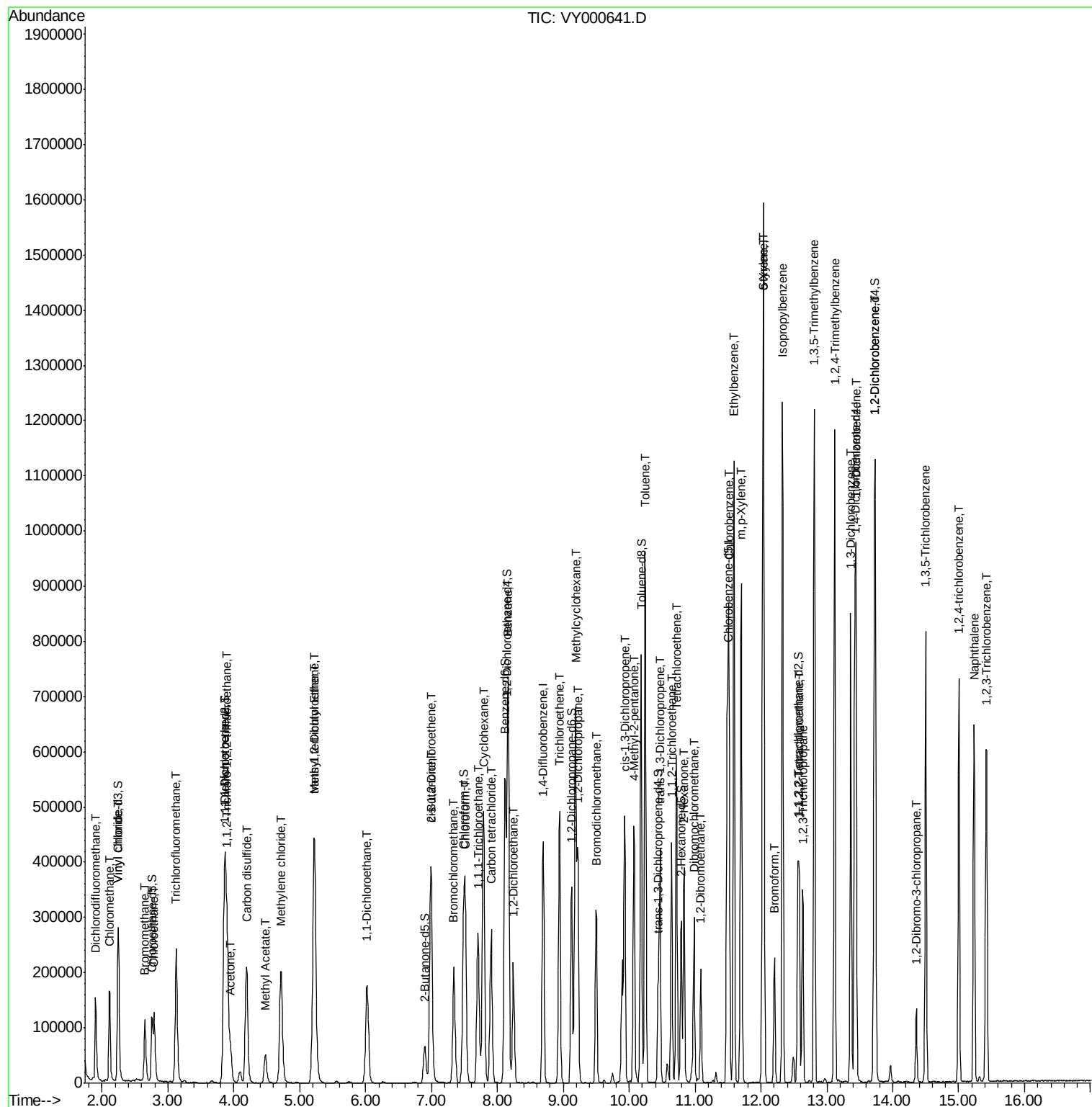
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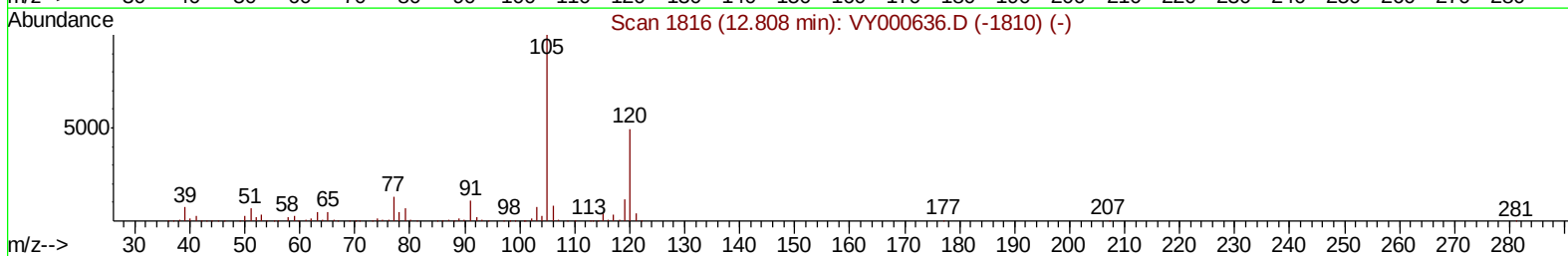
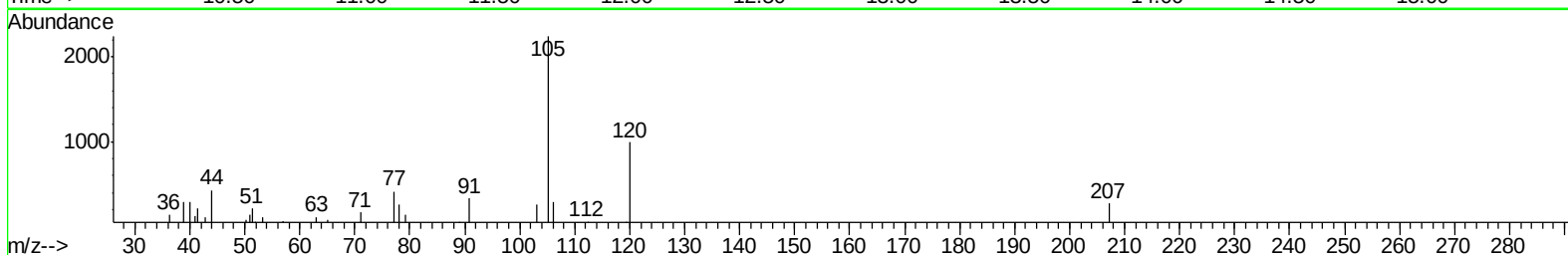
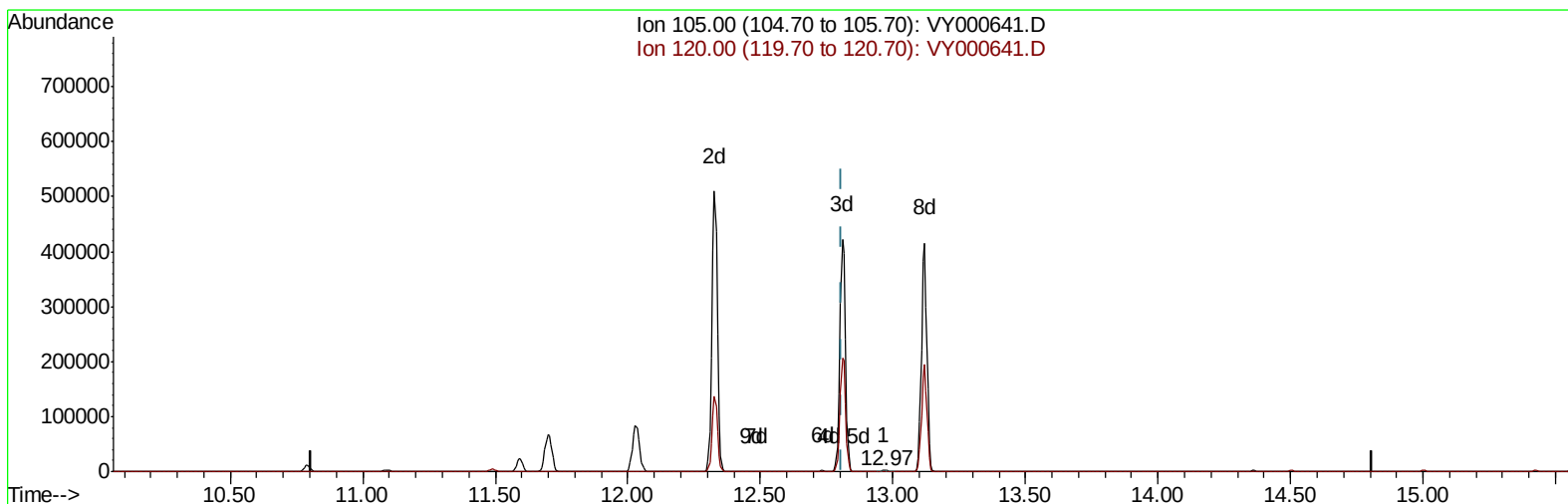
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TIC: VY000641.D

(62) 1,3,5-Trimethylbenzene

12.967min (+0.158) 0.16ug/L

response 3517

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 105.00 | 100   | 100   |
| 120.00 | 32.40 | 35.60 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |