

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042120\  
 Data File : VW015269.D  
 Acq On : 21 Apr 2020 18:03  
 Operator : SY/VA  
 Sample : L2314-03  
 Misc : 4.98G/5ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WB-3-1

Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 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\_W\METHOD\82W042020S.M  
 Title : SW846 8260

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         | 2.154       | 36            | 41          | 47           | rBV2     | 3697           | 7215          | 1.24%           | 0.153%        |
| 2         | 4.928       | 486           | 496         | 506          | rVB3     | 5567           | 17213         | 2.97%           | 0.365%        |
| 3         | 7.141       | 850           | 859         | 871          | rBV2     | 17408          | 49135         | 8.46%           | 1.042%        |
| 4         | 7.884       | 970           | 981         | 986          | rBV      | 78131          | 183823        | 31.67%          | 3.897%        |
| 5         | 7.952       | 986           | 992         | 1001         | rVB      | 161983         | 356813        | 61.47%          | 7.564%        |
| 6         | 8.305       | 1041          | 1050        | 1061         | rBV      | 70241          | 152499        | 26.27%          | 3.233%        |
| 7         | 8.842       | 1130          | 1138        | 1151         | rBV      | 214590         | 422786        | 72.83%          | 8.963%        |
| 8         | 10.323      | 1373          | 1381        | 1389         | rBV      | 325631         | 580503        | 100.00%         | 12.307%       |
| 9         | 10.701      | 1439          | 1443        | 1450         | rVB      | 12042          | 21054         | 3.63%           | 0.446%        |
| 10        | 11.061      | 1498          | 1502        | 1508         | rBV2     | 9532           | 17142         | 2.95%           | 0.363%        |
| 11        | 11.628      | 1589          | 1595        | 1603         | rVB      | 279774         | 473683        | 81.60%          | 10.042%       |
| 12        | 12.615      | 1751          | 1757        | 1775         | rVB2     | 245947         | 463808        | 79.90%          | 9.833%        |
| 13        | 13.066      | 1822          | 1831        | 1841         | rVB2     | 48247          | 178019        | 30.67%          | 3.774%        |
| 14        | 13.304      | 1863          | 1870        | 1881         | rVB3     | 33524          | 115762        | 19.94%          | 2.454%        |
| 15        | 13.438      | 1886          | 1892        | 1905         | rVV2     | 41844          | 152748        | 26.31%          | 3.238%        |
| 16        | 13.554      | 1906          | 1911        | 1918         | rVB      | 234811         | 380161        | 65.49%          | 8.059%        |
| 17        | 14.536      | 2066          | 2072        | 2085         | rVB4     | 48217          | 163403        | 28.15%          | 3.464%        |
| 18        | 14.755      | 2100          | 2108        | 2116         | rBV4     | 32775          | 96767         | 16.67%          | 2.051%        |
| 19        | 14.944      | 2132          | 2139        | 2150         | rVB2     | 54863          | 187425        | 32.29%          | 3.973%        |
| 20        | 15.072      | 2154          | 2160        | 2168         | rVV2     | 19790          | 69239         | 11.93%          | 1.468%        |
| 21        | 15.151      | 2168          | 2173        | 2181         | rVB2     | 33074          | 85416         | 14.71%          | 1.811%        |
| 22        | 15.267      | 2182          | 2192        | 2202         | rVV4     | 32701          | 117785        | 20.29%          | 2.497%        |
| 23        | 15.621      | 2243          | 2250        | 2263         | rVB5     | 28139          | 99940         | 17.22%          | 2.119%        |
| 24        | 15.920      | 2291          | 2299        | 2315         | rVB3     | 28808          | 133806        | 23.05%          | 2.837%        |
| 25        | 16.115      | 2325          | 2331        | 2341         | rVB3     | 12921          | 41785         | 7.20%           | 0.886%        |
| 26        | 16.365      | 2364          | 2372        | 2377         | rBV4     | 12158          | 42990         | 7.41%           | 0.911%        |
| 27        | 16.432      | 2377          | 2383        | 2404         | rVB4     | 24887          | 106048        | 18.27%          | 2.248%        |

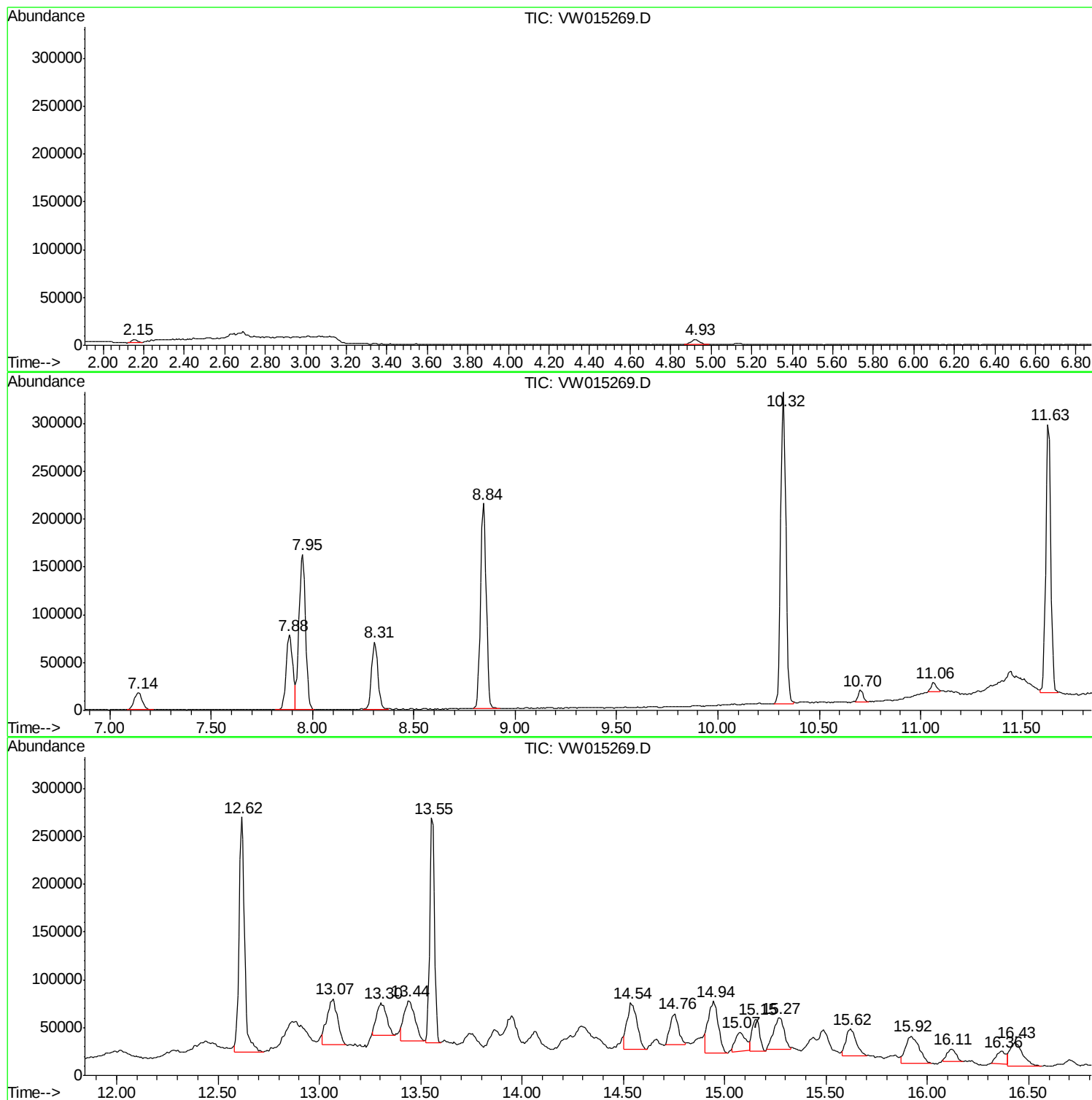
Sum of corrected areas: 4716968

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
Quant Title : SW846 8260

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



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\*\*\*\*\*  
Peak Number 1 Pentadecane Concentration Rank 2

| R.T.    | EstConc    | Area         | Relative to ISTD       | R.T.           |
|---------|------------|--------------|------------------------|----------------|
| 13.07   | 23.41 ug/l | 178019       | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5          | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       |            | Pentadecane  | 212 C15H32             | 000629-62-9 95 |
| 2       |            | Tetradecane  | 198 C14H30             | 000629-59-4 90 |
| 3       |            | Nonadecane   | 268 C19H40             | 000629-92-5 87 |
| 4       |            | Hexadecane   | 226 C16H34             | 000544-76-3 87 |
| 5       |            | Tetracosane  | 338 C24H50             | 000646-31-1 80 |

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Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 7

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 13.30   | 15.23 ug/l | 115762                     | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 1,6-dimethyl- | 156 C12H12             | 000575-43-9 95 |
| 2       |            | Naphthalene, 2,6-dimethyl- | 156 C12H12             | 000581-42-0 95 |
| 3       |            | Naphthalene, 1,7-dimethyl- | 156 C12H12             | 000575-37-1 95 |
| 4       |            | Naphthalene, 1,5-dimethyl- | 156 C12H12             | 000571-61-9 95 |
| 5       |            | Naphthalene, 1,3-dimethyl- | 156 C12H12             | 000575-41-7 94 |

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Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 4

| R.T.    | EstConc    | Area                       | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------|------------------------|----------------|
| 13.44   | 20.09 ug/l | 152748                     | 1,4-Dichlorobenzene-d4 | 13.55          |
| Hit# of | 5          | Tentative ID               | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 2,7-dimethyl- | 156 C12H12             | 000582-16-1 96 |
| 2       |            | Naphthalene, 1,7-dimethyl- | 156 C12H12             | 000575-37-1 96 |
| 3       |            | Naphthalene, 1,4-dimethyl- | 156 C12H12             | 000571-58-4 94 |
| 4       |            | Naphthalene, 1,5-dimethyl- | 156 C12H12             | 000571-61-9 93 |
| 5       |            | Naphthalene, 1,8-dimethyl- | 156 C12H12             | 000569-41-5 93 |

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Peak Number 4 Benzene, (1-butylhexyl)- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|---------|------|------------------|------|
|------|---------|------|------------------|------|

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 Misc : 4.98G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WB-3-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W042020S.M  
 Quant Title : SW846 8260

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

| 14.54 | 21.49 ug/l | 163403 | 1,4-Dichlorobenzene-d4              | 13.55 |             |              |      |
|-------|------------|--------|-------------------------------------|-------|-------------|--------------|------|
| Hit#  | of         | 5      | Tentative ID                        | MW    | MolForm     | CAS#         | Qual |
| 1     |            |        | Benzene, (1-butylhexyl)-            | 218   | C16H26      | 004537-11-5  | 91   |
| 2     |            |        | Benzene, (1-butyloctyl)-            | 246   | C18H30      | 002719-63-3  | 27   |
| 3     |            |        | 2-Pentenoic acid, 3-methyl-5-phe... | 218   | C14H18O2    | 034188-63-1  | 10   |
| 4     |            |        | 2,5-Piperazinedione, 3-methyl-6-... | 218   | C12H14N2O2  | 014474-78-3  | 10   |
| 5     |            |        | 1H-1,2,3,4-Tetrazole, 1-(4-metho... | 330   | C15H14N4O3S | 1000350-09-9 | 10   |

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 Peak Number 5 unknown14.76 Concentration Rank 10

| R.T.  | EstConc    | Area  | Relative to ISTD           | R.T.  |          |             |      |
|-------|------------|-------|----------------------------|-------|----------|-------------|------|
| 14.76 | 12.73 ug/l | 96767 | 1,4-Dichlorobenzene-d4     | 13.55 |          |             |      |
| Hit#  | of         | 5     | Tentative ID               | MW    | MolForm  | CAS#        | Qual |
| 1     |            |       | Benzene, (1-propylheptyl)- | 218   | C16H26   | 004537-12-6 | 47   |
| 2     |            |       | Benzene, (1-propylnonyl)-  | 246   | C18H30   | 002719-64-4 | 27   |
| 3     |            |       | Benzene, (4-chlorobutyl)-  | 168   | C10H13Cl | 004830-93-7 | 25   |
| 4     |            |       | Benzene, (1-propyloctyl)-  | 232   | C17H28   | 004536-86-1 | 16   |
| 5     |            |       | Benzene, (1-hexylheptyl)-  | 260   | C19H32   | 002400-01-3 | 14   |

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 Peak Number 6 unknown15.27 Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD                    | R.T.  |            |              |      |
|-------|------------|--------|-------------------------------------|-------|------------|--------------|------|
| 15.27 | 15.49 ug/l | 117785 | 1,4-Dichlorobenzene-d4              | 13.55 |            |              |      |
| Hit#  | of         | 5      | Tentative ID                        | MW    | MolForm    | CAS#         | Qual |
| 1     |            |        | 1H-Indene, 2,3-dihydro-1,1,6-tri... | 160   | C12H16     | 014276-95-0  | 38   |
| 2     |            |        | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160   | C12H16     | 040650-41-7  | 38   |
| 3     |            |        | 1H-Indene, 2,3-dihydro-1,1,4-tri... | 160   | C12H16     | 016204-72-1  | 32   |
| 4     |            |        | (2,4-Difluoro-benzyl)-[2-(2-meth... | 300   | C18H18F2N2 | 1000300-26-1 | 28   |
| 5     |            |        | N,N-Dimethylthiocarbamic acid, S... | 249   | C14H19NOS  | 1000196-46-8 | 23   |

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 Peak Number 7 Naphthalene, 1,6,7-trimethyl- Concentration Rank 9

| R.T.  | EstConc    | Area  | Relative to ISTD       | R.T.  |         |      |      |
|-------|------------|-------|------------------------|-------|---------|------|------|
| 15.62 | 13.14 ug/l | 99940 | 1,4-Dichlorobenzene-d4 | 13.55 |         |      |      |
| Hit#  | of         | 5     | Tentative ID           | MW    | MolForm | CAS# | Qual |

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TIC Integration Parameters: LSCINT.P

|   |                                 |     |        |              |    |
|---|---------------------------------|-----|--------|--------------|----|
| 1 | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14 | 002245-38-7  | 95 |
| 2 | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14 | 002131-42-2  | 94 |
| 3 | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14 | 000829-26-5  | 93 |
| 4 | Naphthalene, 1,4,5-trimethyl-   | 170 | C13H14 | 002131-41-1  | 90 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 80 |

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Peak Number 8 unknown15.92 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.92 | 17.60 ug/l | 133806 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | Benzene, (1-methylnonyl)-           | 218 | C16H26     | 004537-13-7  | 42   |
| 2    |    |   | Benzene, (1-methyldecyl)-           | 232 | C17H28     | 004536-88-3  | 14   |
| 3    |    |   | (4-Methylphenyl) methanol, 1-met... | 178 | C12H18O    | 1000374-65-6 | 14   |
| 4    |    |   | S-Benzoyl-N-(p-methoxybenzyliden... | 271 | C15H13NO2S | 145198-44-3  | 14   |
| 5    |    |   | 1-Ethanone, 1-[3-methoxy-4-[(4-m... | 270 | C17H18O3   | 1000338-24-2 | 14   |

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Peak Number 9 unknown16.43 Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 16.43 | 13.95 ug/l | 106048 | 1,4-Dichlorobenzene-d4 | 13.55 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm       | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-4-(methylsulfo... | 170 | C8H10O2S      | 003185-99-7 | 23   |
| 2    |    |   | Benzene, (1-butylheptyl)-           | 232 | C17H28        | 004537-15-9 | 15   |
| 3    |    |   | Benzene, 1-[(chloromethyl)sulfon... | 204 | C8H9ClO2S     | 007569-26-8 | 10   |
| 4    |    |   | Azetidine, 2-methyl-1-[(4-methyl... | 225 | C11H15N02S    | 013595-47-6 | 9    |
| 5    |    |   | Pyridine-2-carbonitrile, 3,5,6-t... | 375 | C13H8Cl3N3O2S | 255713-77-0 | 9    |

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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Pentadecane          | 13.07 | 23.4    | ug/l  | 178019   | 4                     | 13.55 | 380161 | 50.0 |
| Naphthalene, 1,6-... | 13.30 | 15.2    | ug/l  | 115762   | 4                     | 13.55 | 380161 | 50.0 |
| Naphthalene, 2,7-... | 13.44 | 20.1    | ug/l  | 152748   | 4                     | 13.55 | 380161 | 50.0 |
| Benzene, (1-butyl... | 14.54 | 21.5    | ug/l  | 163403   | 4                     | 13.55 | 380161 | 50.0 |
| unknown14.76         | 14.76 | 12.7    | ug/l  | 96767    | 4                     | 13.55 | 380161 | 50.0 |
| unknown15.27         | 15.27 | 15.5    | ug/l  | 117785   | 4                     | 13.55 | 380161 | 50.0 |
| Naphthalene, 1,6,... | 15.62 | 13.1    | ug/l  | 99940    | 4                     | 13.55 | 380161 | 50.0 |
| unknown15.92         | 15.92 | 17.6    | ug/l  | 133806   | 4                     | 13.55 | 380161 | 50.0 |
| unknown16.43         | 16.43 | 13.9    | ug/l  | 106048   | 4                     | 13.55 | 380161 | 50.0 |