

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032823\  
 Data File : VU053453.D  
 Acq On : 28 Mar 2023 23:19  
 Operator : JC/MD  
 Sample : 02037-02DL 250X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E45E5DL

Quant Time: Mar 29 04:18:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 29 02:16:14 2023  
 Response via : Initial Calibration

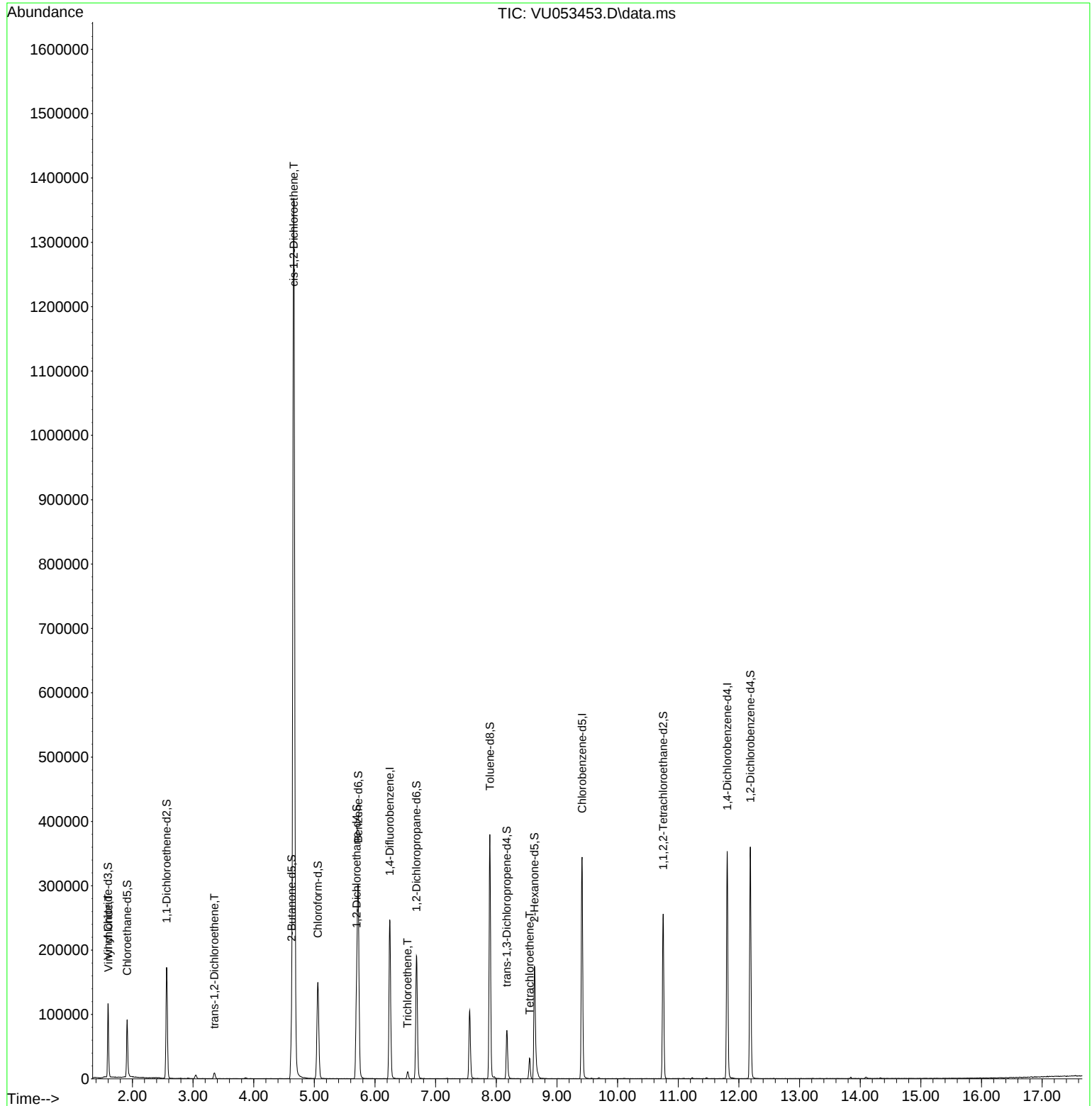
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 200414   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 186212   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 89998    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 78302    | 42.350   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.700%  |
| 7) Chloroethane-d5            | 1.912   | 69    | 65587    | 43.854   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 87.700%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 102910   | 32.130   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 64.260%  |
| 21) 2-Butanone-d5             | 4.626   | 46    | 105716   | 123.278  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 123.280% |
| 24) Chloroform-d              | 5.057   | 84    | 136099   | 44.691   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 89.380%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 89481    | 47.313   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.620%  |
| 32) Benzene-d6                | 5.722   | 84    | 272224   | 45.071   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.140%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 93275    | 47.850   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.700%  |
| 41) Toluene-d8                | 7.893   | 98    | 245579   | 43.672   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.340%  |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 41259    | 42.899   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 85.800%  |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 57999    | 95.169   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.170%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 124648   | 49.361   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.720%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 90877    | 52.150   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.300% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.604   | 62    | 6414     | 3.042    | ug/L   | # 65     |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 3886     | 2.602    | ug/L   | 92       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 687065   | 391.705  | ug/L   | 98       |
| 34) Trichloroethene           | 6.536   | 95    | 3410     | 2.026    | ug/L   | 91       |
| 46) Tetrachloroethene         | 8.549   | 164   | 6549     | 5.980    | ug/L   | 92       |
| -----                         |         |       |          |          |        |          |

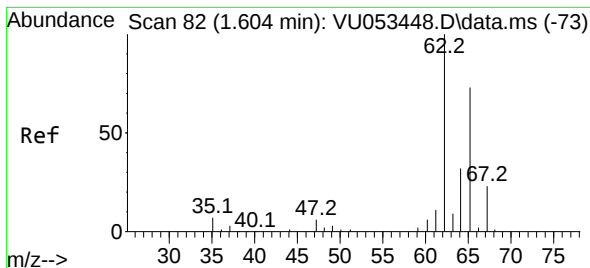
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed Mar 29 02:16:14 2023  
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#5

Vinyl chloride

Concen: 3.042 ug/L

RT: 1.604 min Scan# 81

Delta R.T. -0.000 min

Lab File: VU053453.D

Acq: 28 Mar 2023 23:19

Instrument :

MSVOA\_U

ClientSampleId :

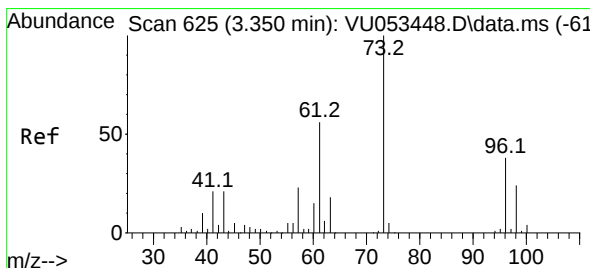
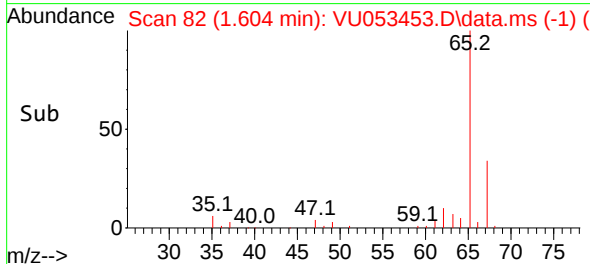
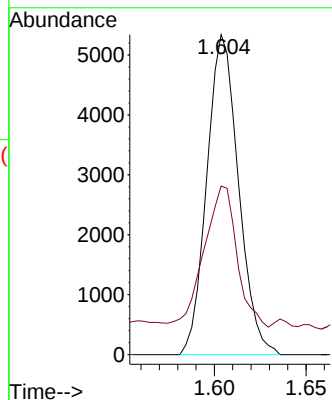
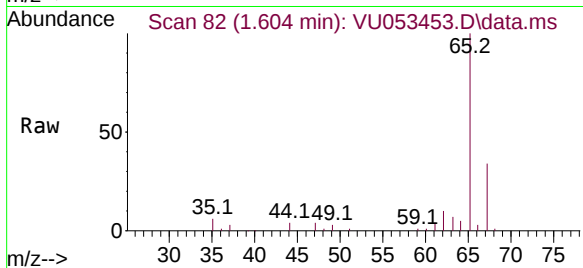
E45E5DL

Tgt Ion: 62 Resp: 6414

Ion Ratio Lower Upper

62 100

64 52.7 23.2 43.0#



#17

trans-1,2-Dichloroethene

Concen: 2.602 ug/L

RT: 3.350 min Scan# 625

Delta R.T. -0.000 min

Lab File: VU053453.D

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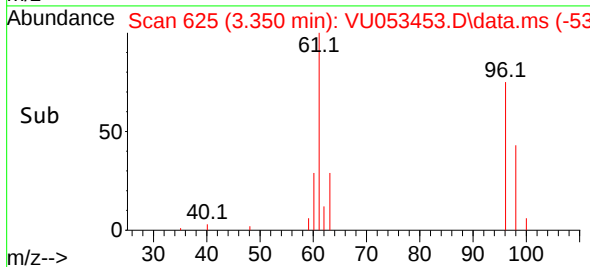
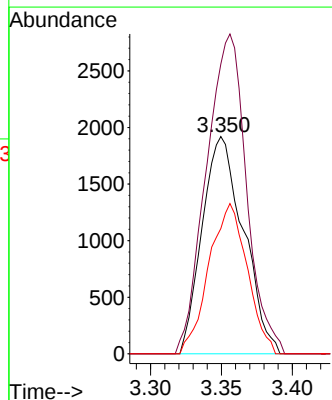
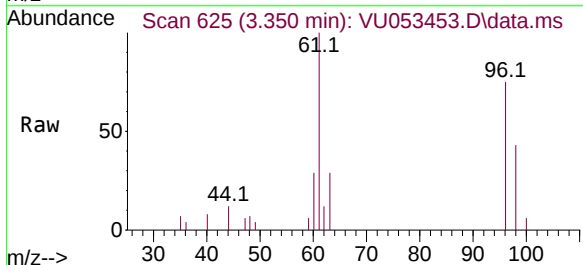
Tgt Ion: 96 Resp: 3886

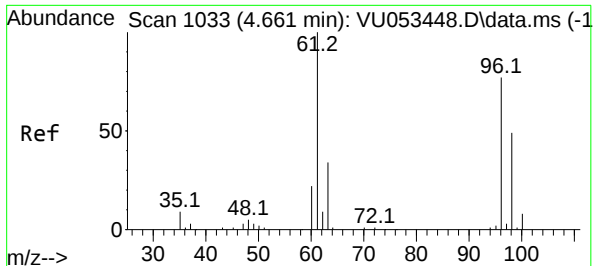
Ion Ratio Lower Upper

96 100

61 133.4 99.6 185.0

98 57.7 45.5 84.5

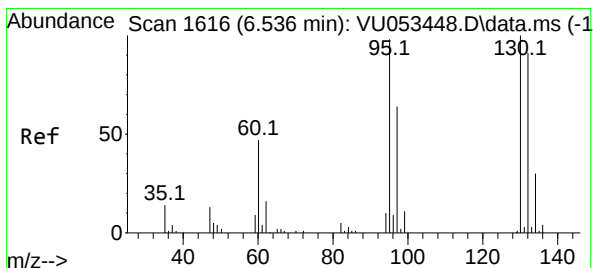
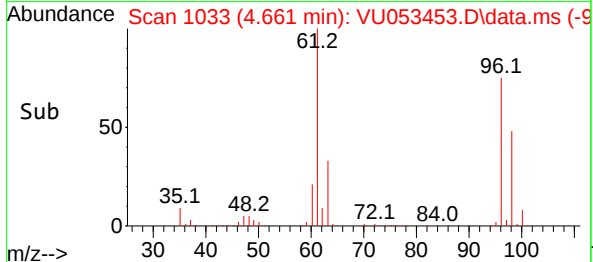
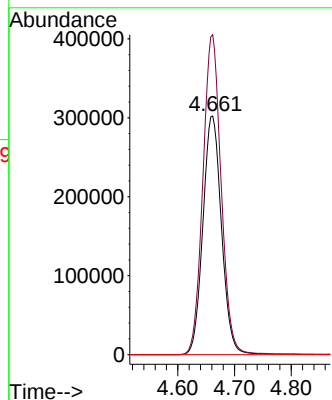
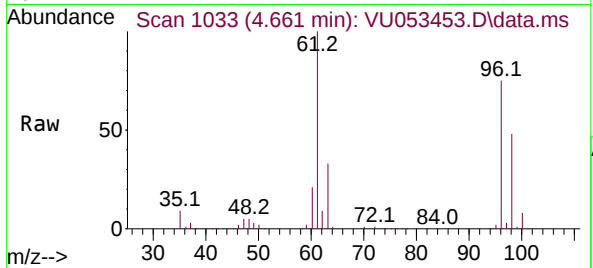




#20  
cis-1,2-Dichloroethene  
Concen: 391.705 ug/L  
RT: 4.661 min Scan# 1033  
Delta R.T. -0.000 min  
Lab File: VU053453.D  
Acq: 28 Mar 2023 23:19

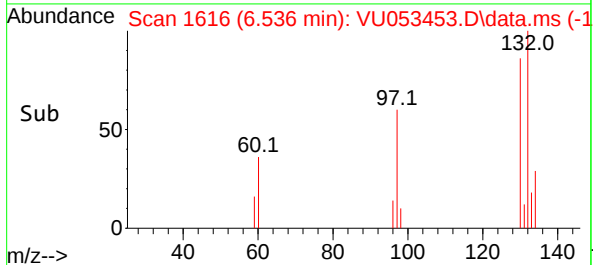
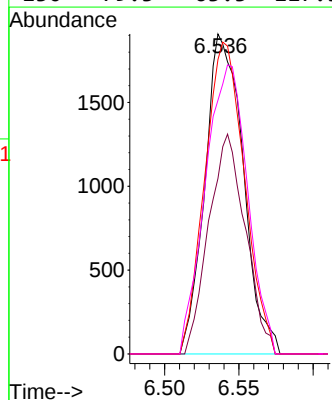
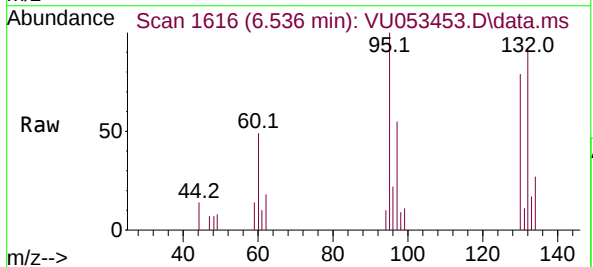
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MSVOA\_U  
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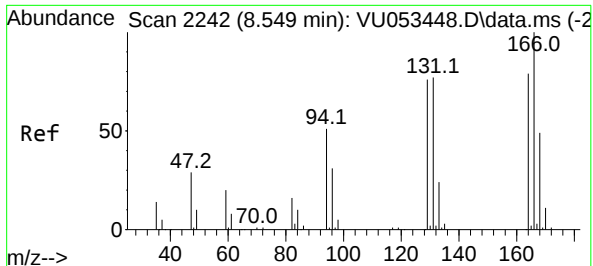
Tgt Ion: 96 Resp: 687065  
Ion Ratio Lower Upper  
96 100  
61 134.1 92.5 171.7  
68 0.0 0.0 0.0



#34  
Trichloroethene  
Concen: 2.026 ug/L  
RT: 6.536 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: VU053453.D  
Acq: 28 Mar 2023 23:19

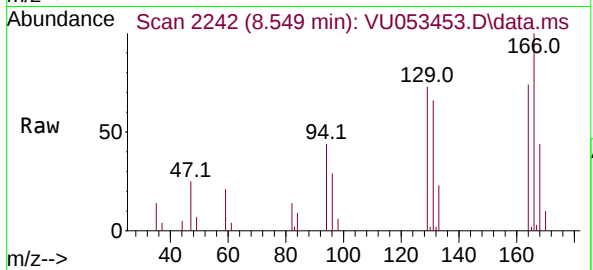
Tgt Ion: 95 Resp: 3410  
Ion Ratio Lower Upper  
95 100  
97 54.8 43.8 81.3  
132 92.0 61.5 114.3  
130 79.3 63.3 117.5





#46  
 Tetrachloroethene  
 Concen: 5.980 ug/L  
 RT: 8.549 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VU053453.D  
 Acq: 28 Mar 2023 23:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E45E5DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 6549  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 99.5  | 73.6  | 136.8 |
| 131      | 88.9  | 70.3  | 130.7 |
| 166      | 135.6 | 88.9  | 165.1 |

