

Data File : VV013935.D  
Acq On : 06 Dec 2019 12:10  
Operator : SY/MD  
Sample : K6190-05  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFR98

Quant Time: Dec 07 01:41:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Dec 07 01:39:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 614656   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 593286   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 226794   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |                |     |            |         |      |       |
|--------------------------------|----------------|-----|------------|---------|------|-------|
| 4) Vinyl Chloride-d3           | 1.32           | 65  | 199595     | 56.15   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 60 - 135 |     | Recovery = | 112.30% |      |       |
| 7) Chloroethane-d5             | 1.57           | 69  | 204347     | 55.07   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 130 |     | Recovery = | 110.14% |      |       |
| 11) 1,1-Dichloroethene-d2      | 2.06           | 63  | 245        | 0.03    | ug/L | -0.07 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 0.06%#  |      |       |
| 21) 2-Butanone-d5              | 3.92           | 46  | 229631     | 91.77   | ug/L | 0.00  |
| Spiked Amount 100.000          | Range 40 - 130 |     | Recovery = | 91.77%  |      |       |
| 24) Chloroform-d               | 4.39           | 84  | 357941     | 47.95   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 95.90%  |      |       |
| 26) 1,2-Dichloroethane-d4      | 5.08           | 65  | 233746     | 49.41   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 98.82%  |      |       |
| 32) Benzene-d6                 | 5.09           | 84  | 740862     | 48.19   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 96.38%  |      |       |
| 36) 1,2-Dichloropropane-d6     | 6.11           | 67  | 228191     | 49.45   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 120 |     | Recovery = | 98.90%  |      |       |
| 41) Toluene-d8                 | 7.35           | 98  | 646498     | 46.13   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 92.26%  |      |       |
| 43) trans-1,3-Dichloropropene- | 7.66           | 79  | 99930      | 44.50   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 89.00%  |      |       |
| 47) 2-Hexanone-d5              | 8.13           | 63  | 125739     | 72.97   | ug/L | 0.00  |
| Spiked Amount 100.000          | Range 45 - 130 |     | Recovery = | 72.97%  |      |       |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25          | 84  | 267795     | 40.08   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 65 - 120 |     | Recovery = | 80.16%  |      |       |
| 64) 1,2-Dichlorobenzene-d4     | 11.67          | 152 | 231385     | 51.95   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 103.90% |      |       |

#### Target Compounds

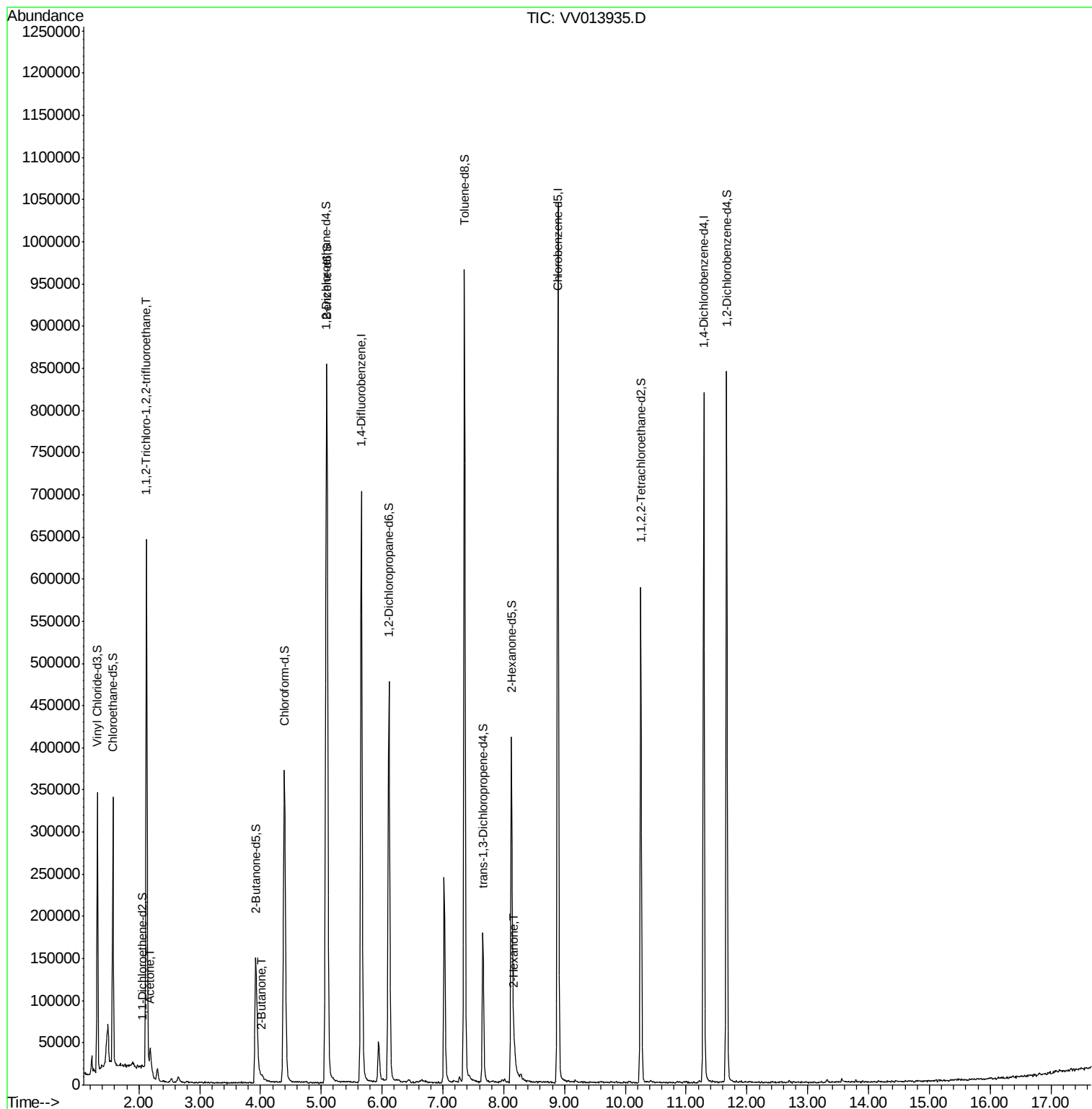
|                                |      |     |       |       |        | Qvalue |
|--------------------------------|------|-----|-------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 3744  | 0.810 | ug/L # | 22     |
| 13) Acetone                    | 2.18 | 43  | 20651 | 5.632 | ug/L   | 98     |
| 22) 2-Butanone                 | 4.03 | 43  | 4328  | 1.230 | ug/L   | 84     |
| 48) 2-Hexanone                 | 8.18 | 43  | 16990 | 3.820 | ug/L # | 66     |

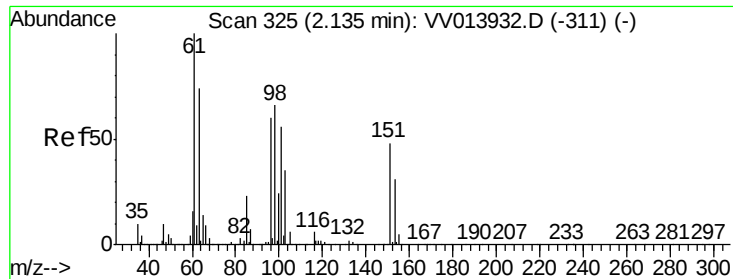
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.810 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

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Acq: 06 Dec 2019 12:10

Instrument :

MSVOA\_V

ClientSampleId :

BFR98

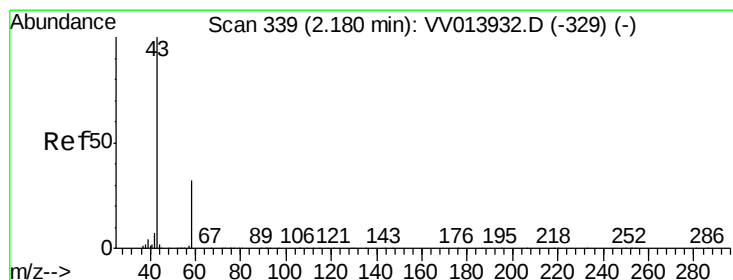
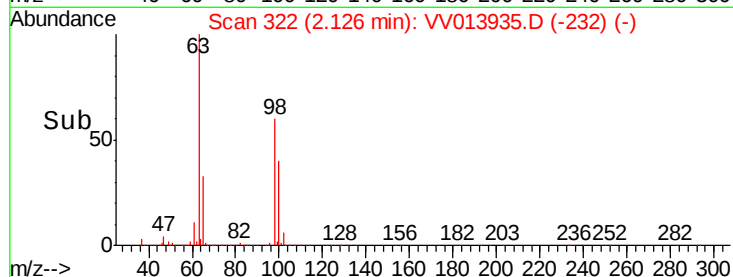
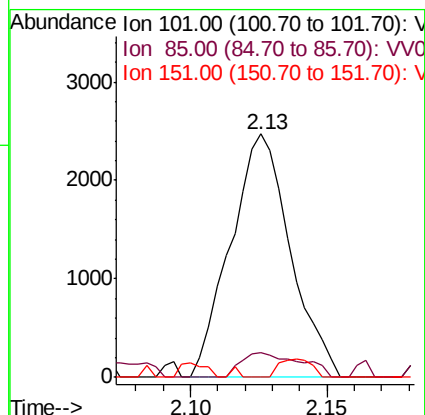
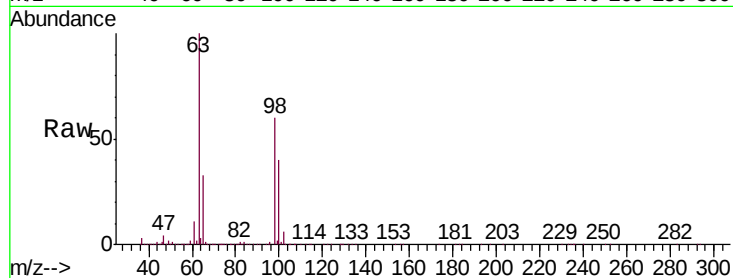
Tgt Ion:101 Resp: 3744

Ion Ratio Lower Upper

101 100

85 8.7 32.5 48.7#

151 4.1 69.8 104.6#



#13

Acetone

Concen: 5.632 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013935.D

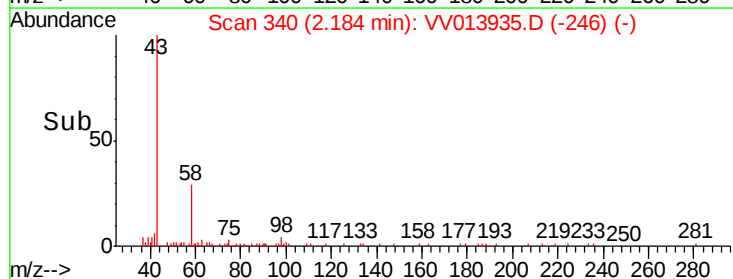
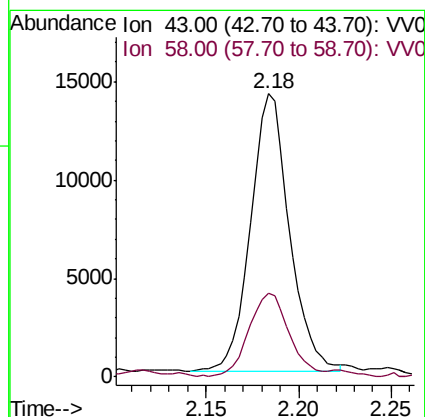
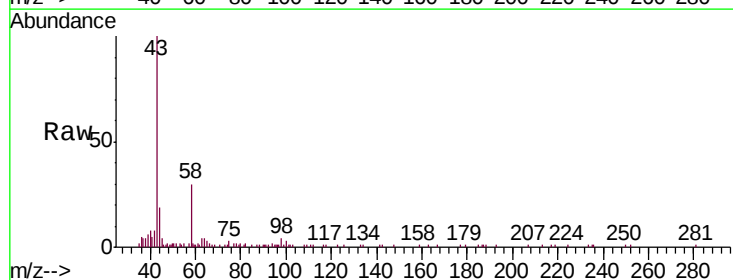
Acq: 06 Dec 2019 12:10

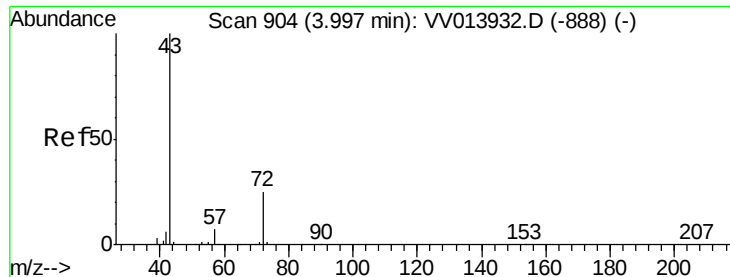
Tgt Ion: 43 Resp: 20651

Ion Ratio Lower Upper

43 100

58 31.3 0.0 60.8





#22

2-Butanone

Concen: 1.230 ug/L

RT: 4.03 min Scan# 915

Delta R.T. 0.04 min

Lab File: VV013935.D

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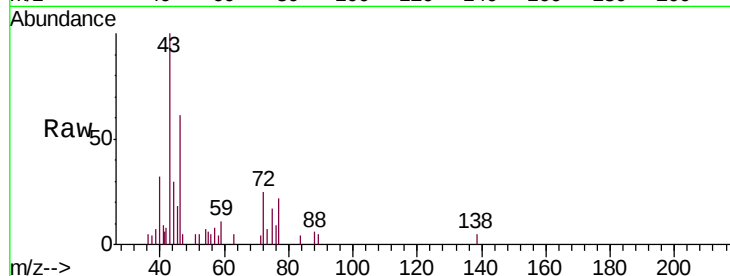
Instrument :  
MSVOA\_V  
ClientSampled :  
BFR98

Tgt Ion: 43 Resp: 4328

Ion Ratio Lower Upper

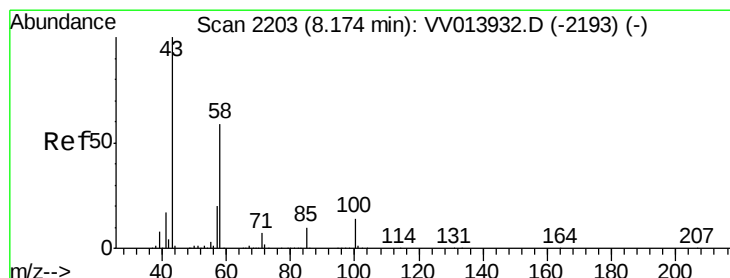
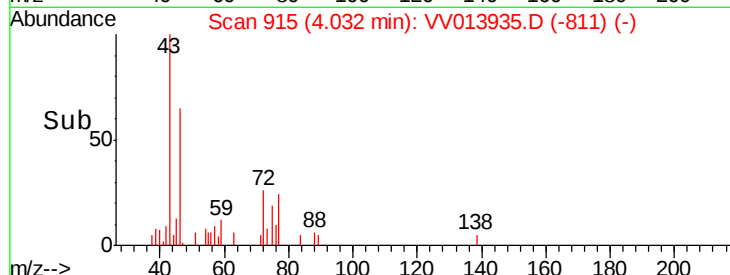
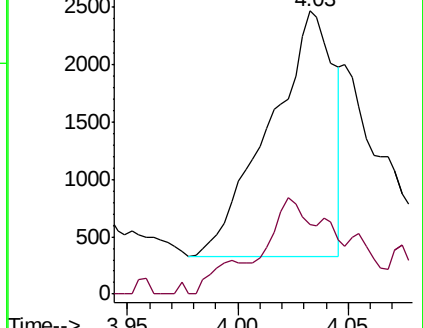
43 100

72 19.7 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV013932.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV013932.D (-888) (-)



#48

2-Hexanone

Concen: 3.820 ug/L

RT: 8.18 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VV013935.D

Acq: 06 Dec 2019 12:10

Tgt Ion: 43 Resp: 16990

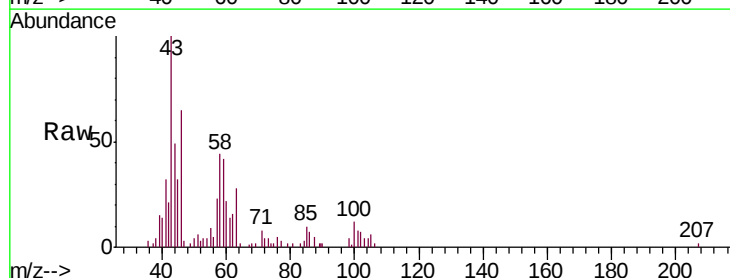
Ion Ratio Lower Upper

43 100

58 27.0 48.4 72.6#

57 12.4 16.6 24.8#

100 8.5 11.9 17.9#



Abundance Ion 43.00 (42.70 to 43.70): VV013932.D (-2193) (-)

Ion 58.00 (57.70 to 58.70): VV013932.D (-2193) (-)

Ion 57.00 (56.70 to 57.70): VV013932.D (-2193) (-)

Ion 100.00 (99.70 to 100.70): VV013932.D (-2193) (-)

