

Data Path : Z:\HPCHEM1\MSVOA\_U\DATA\VU011019\  
 Data File : VU029116.D  
 Acq On : 10 Jan 2019 14:16  
 Operator : MD/SY  
 Sample : K1115-01  
 Misc : 6.28g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

Quant Time: Jan 11 02:46:58 2019  
 Quant Method : Z:\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:22:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.97  | 168  | 138412   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 242045   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 228899   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 109201   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.30   | 65  | 89427    | 52.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.52% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 77236    | 49.23 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.46%  |      |
| 50) Toluene-d8              | 7.56   | 98  | 303747   | 49.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.08%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 113584   | 51.02 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.04% |      |

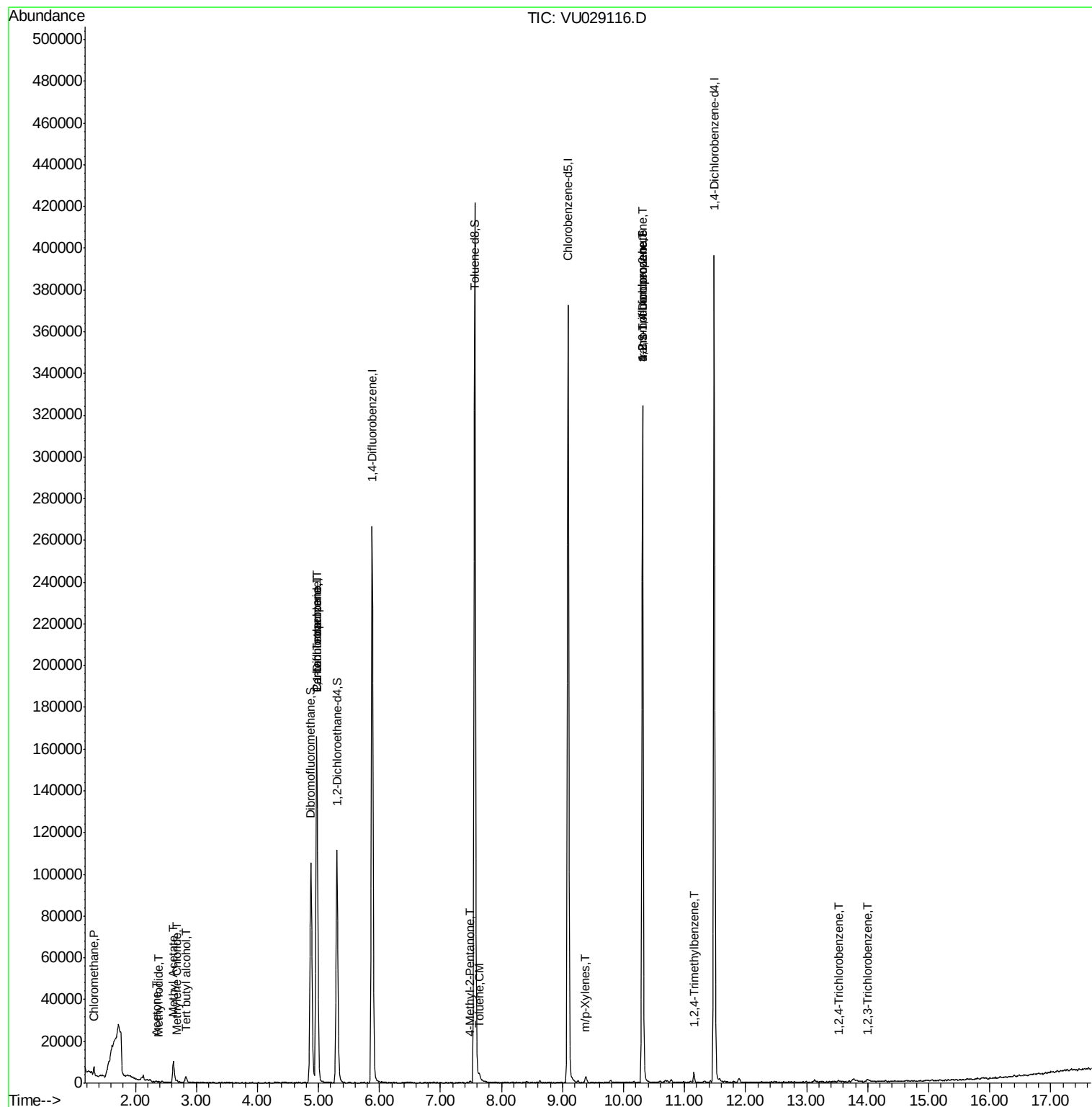
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 3126     | 0.739     | ug/l   | 97     |
| 5) Bromomethane                | 1.59  | 94   | 681      | Below Cal |        | 85     |
| 10) Methyl Iodide              | 2.39  | 142  | 334      | 0.241     | ug/l # | 45     |
| 11) Tert butyl alcohol         | 2.82  | 59   | 2110     | 4.851     | ug/l # | 73     |
| 16) Acetone                    | 2.35  | 43   | 758      | 0.703     | ug/l # | 39     |
| 17) Carbon Disulfide           | 2.44  | 76   | 786      | Below Cal | #      | 75     |
| 18) Methyl Acetate             | 2.62  | 43   | 14231    | 5.678     | ug/l   | 99     |
| 20) Methylene Chloride         | 2.69  | 84   | 479      | 0.262     | ug/l # | 65     |
| 31) Cyclohexane                | 4.97  | 56   | 2375     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 4.97  | 75   | 10017    | 4.140     | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 4.97  | 117  | 12488    | 6.189     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 7.48  | 43   | 700      | 0.252     | ug/l # | 33     |
| 52) Toluene                    | 7.63  | 92   | 1298     | 0.283     | ug/l   | 87     |
| 68) m/p-Xylenes                | 9.38  | 106  | 1317     | 0.396     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 53331    | 19.932    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 53331    | 51.407    | ug/l # | 100    |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 3496     | 0.519     | ug/l   | 96     |
| 93) 1,2,4-Trichlorobenzene     | 13.52 | 180  | 710      | 0.286     | ug/l # | 56     |
| 96) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 948      | 1.140     | ug/l   | 84     |

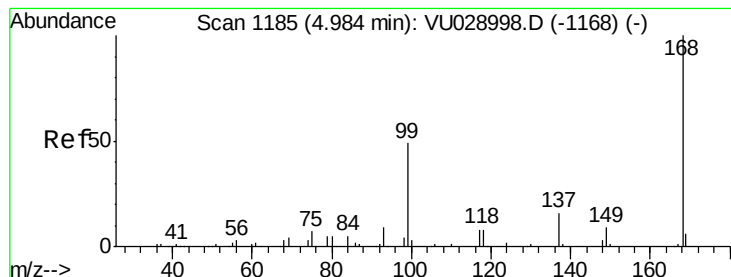
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
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Quant Time: Jan 11 02:46:58 2019  
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Quant Title : SW846 8260  
QLast Update : Fri Jan 04 02:22:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.97 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VU029116.D

Acq: 10 Jan 2019 14:16

Instrument :

MSVOA\_U

ClientSampleId :

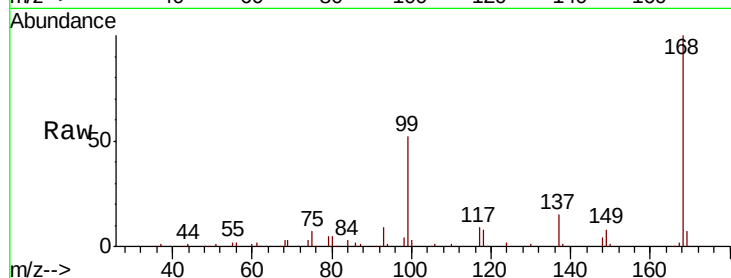
S72-IDW01

Tgt Ion: 168 Resp: 138412

Ion Ratio Lower Upper

168 100

99 51.9 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.97

60000

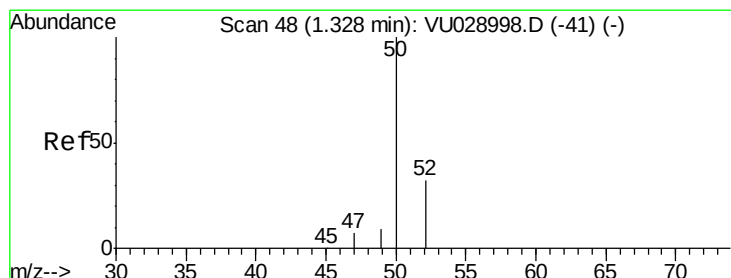
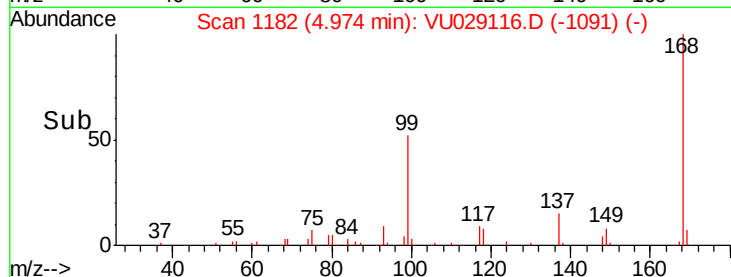
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.739 ug/l

RT: 1.32 min Scan# 46

Delta R.T. -0.01 min

Lab File: VU029116.D

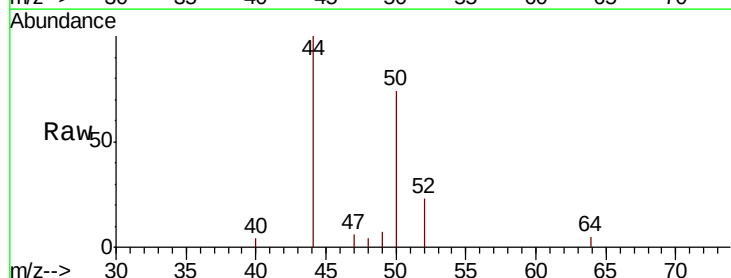
Acq: 10 Jan 2019 14:16

Tgt Ion: 50 Resp: 3126

Ion Ratio Lower Upper

50 100

52 31.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.32

3000

2500

2000

1500

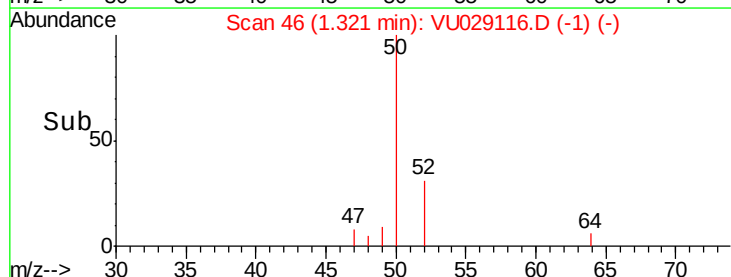
1000

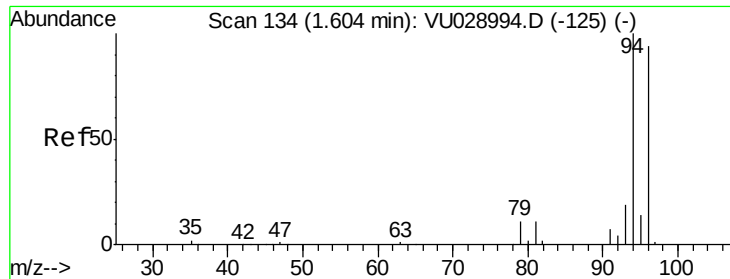
500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 131

Delta R.T. -0.01 min

Lab File: VU029116.D

Acq: 10 Jan 2019 14:16

Instrument :

MSVOA\_U

ClientSampled :

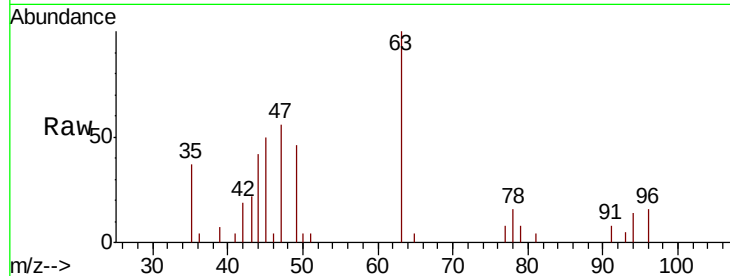
S72-IDW01

Tgt Ion: 94 Resp: 681

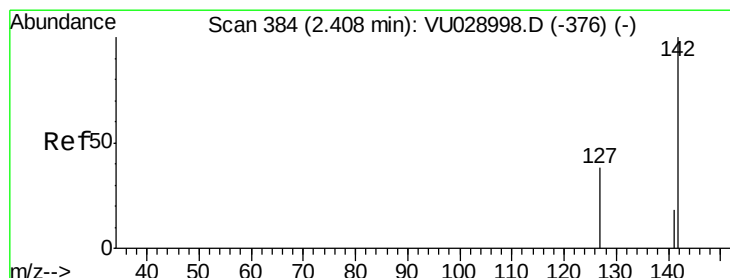
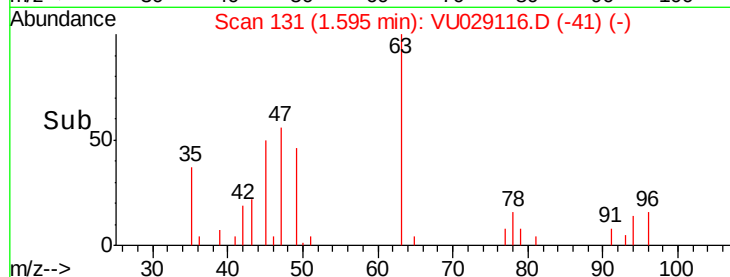
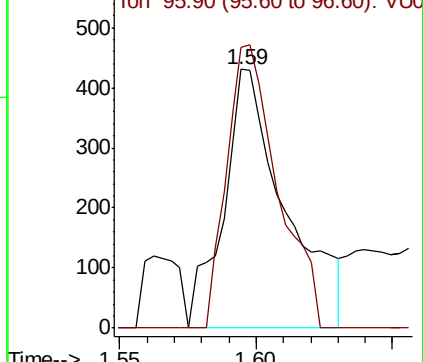
Ion Ratio Lower Upper

94 100

96 108.8 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)



#10

Methyl Iodide

Concen: 0.241 ug/l

RT: 2.39 min Scan# 377

Delta R.T. -0.02 min

Lab File: VU029116.D

Acq: 10 Jan 2019 14:16

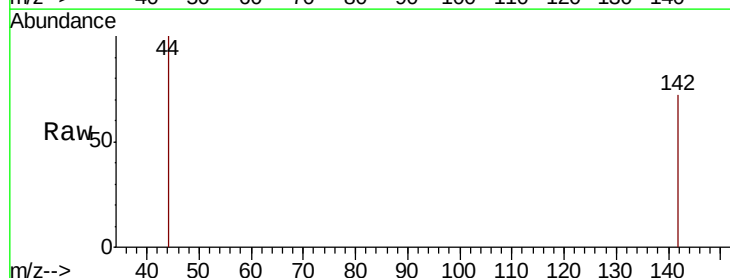
Tgt Ion: 142 Resp: 334

Ion Ratio Lower Upper

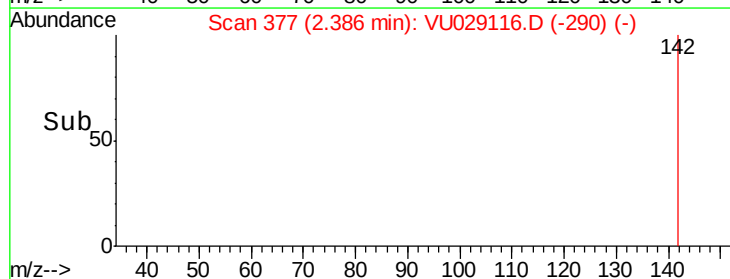
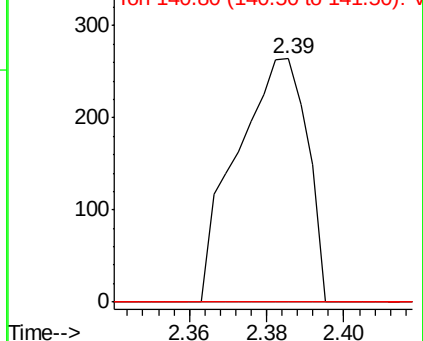
142 100

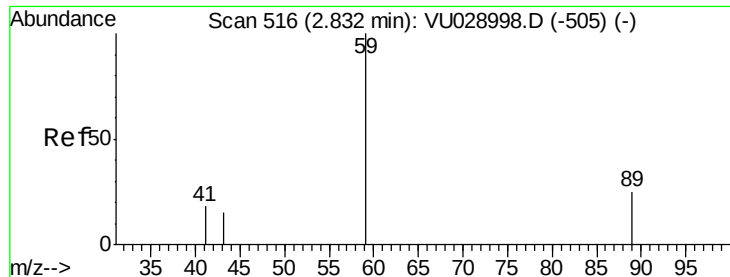
127 0.0 29.8 44.6#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU028998.D (-376) (-)

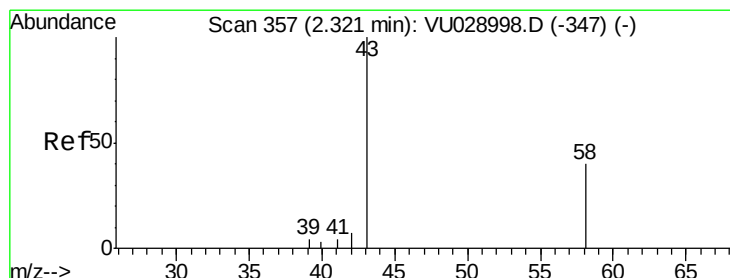
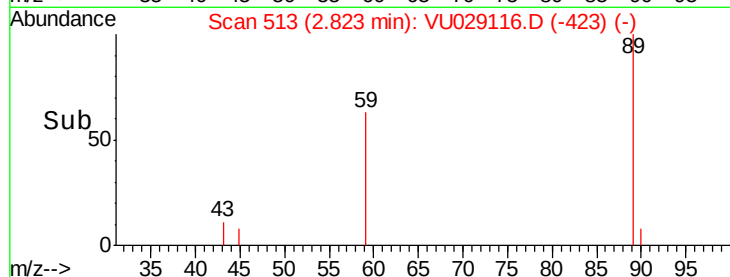
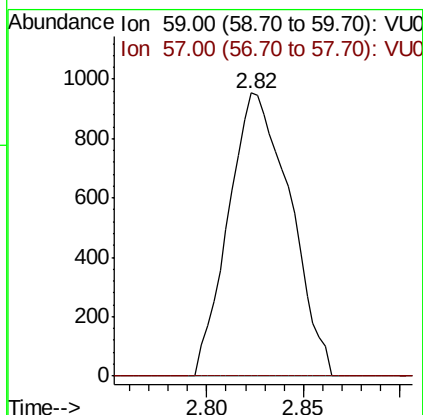
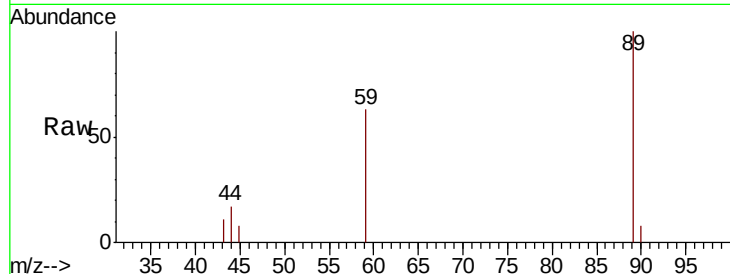




#11  
Tert butyl alcohol  
Concen: 4.851 ug/l  
RT: 2.82 min Scan# 513  
Delta R.T. -0.01 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

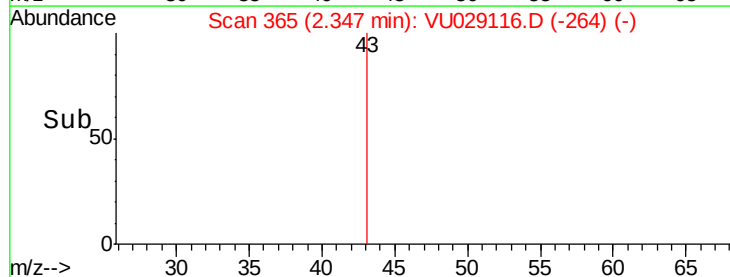
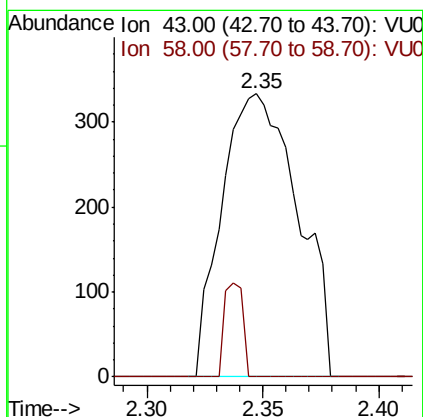
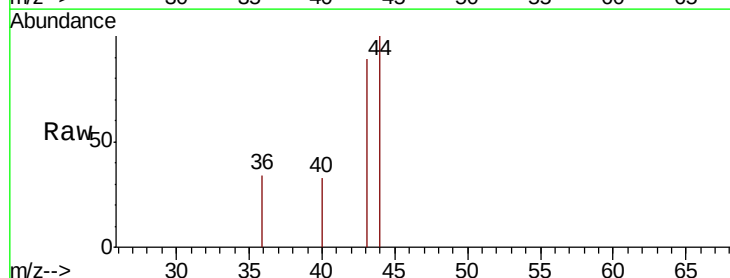
Instrument :  
MSVOA\_U  
ClientSampleId :  
S72-IDW01

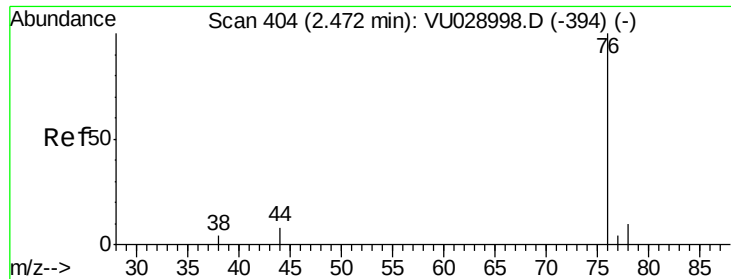
Tgt Ion: 59 Resp: 2110  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.9 11.9#



#16  
Acetone  
Concen: 0.703 ug/l  
RT: 2.35 min Scan# 365  
Delta R.T. 0.03 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion: 43 Resp: 758  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 42.8#





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.44 min Scan# 393

Delta R.T. -0.03 min

Lab File: VU029116.D

Acq: 10 Jan 2019 14:16

Instrument :

MSVOA\_U

ClientSampleId :

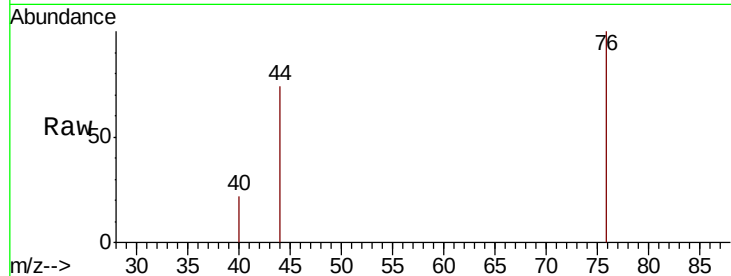
S72-IDW01

Tgt Ion: 76 Resp: 786

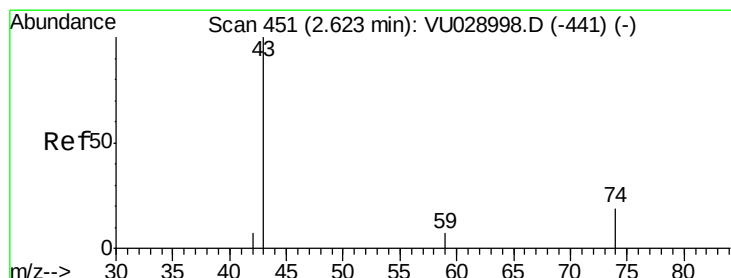
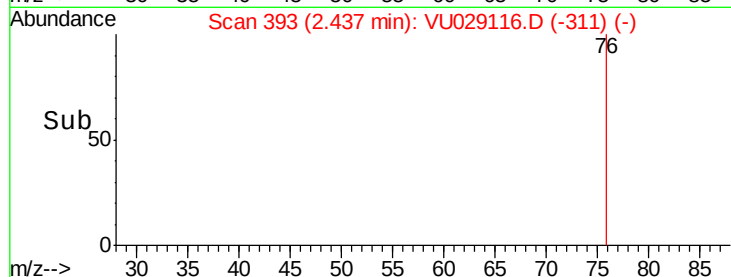
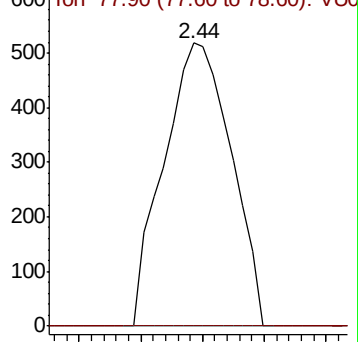
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028998.D (-394) (-)



#18

Methyl Acetate

Concen: 5.678 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU029116.D

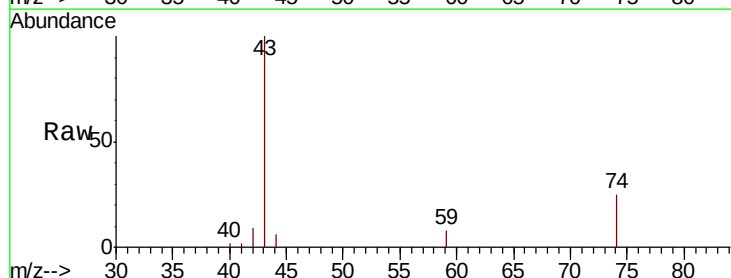
Acq: 10 Jan 2019 14:16

Tgt Ion: 43 Resp: 14231

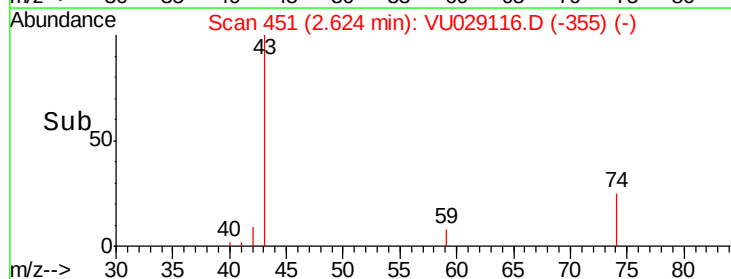
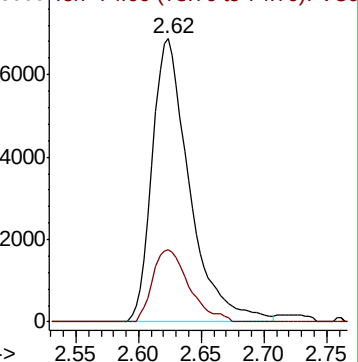
Ion Ratio Lower Upper

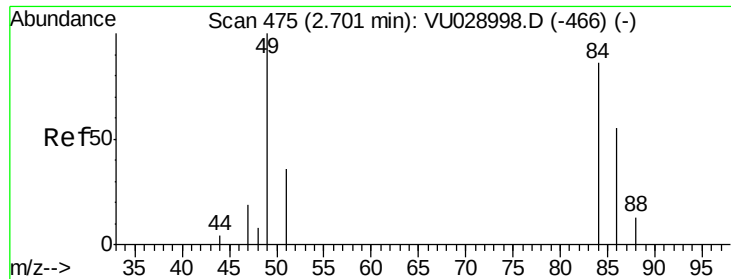
43 100

74 24.9 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-441) (-)

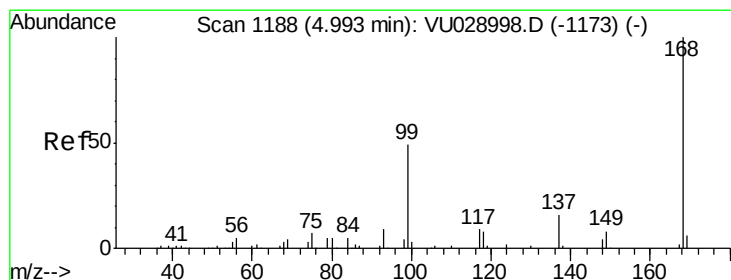
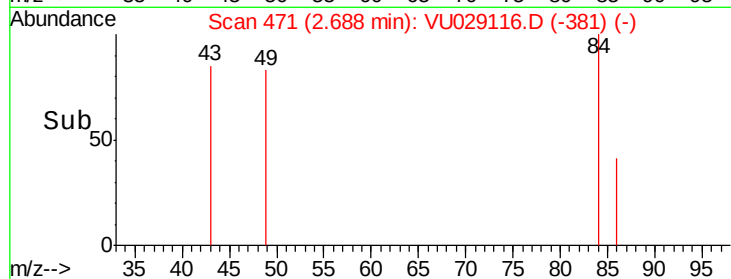
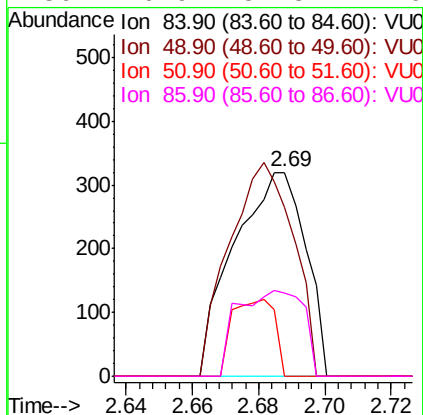
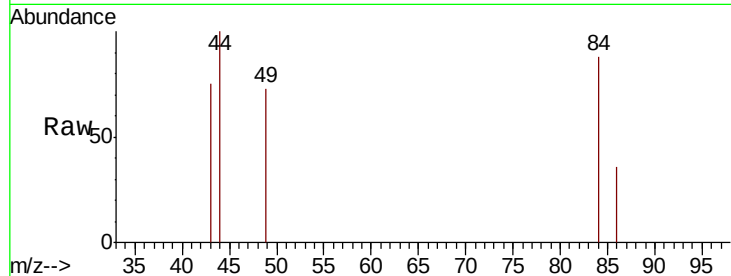




#20  
Methylene Chloride  
Concen: 0.262 ug/l  
RT: 2.69 min Scan# 471  
Delta R.T. -0.01 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

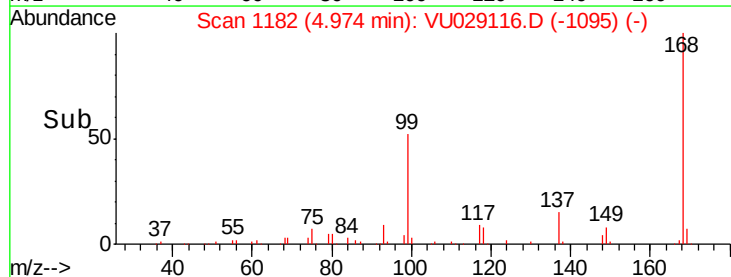
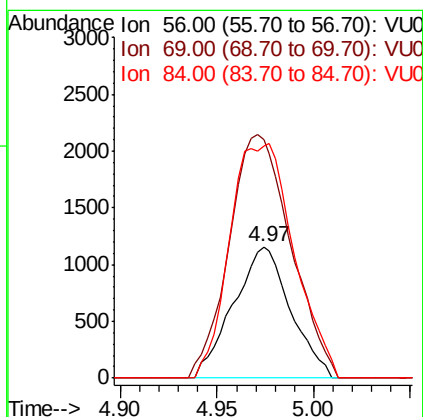
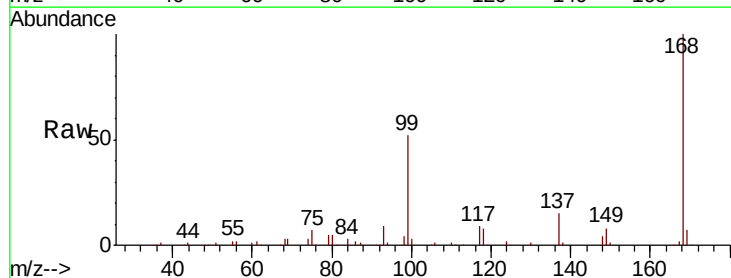
Instrument :  
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ClientSampleId :  
S72-IDW01

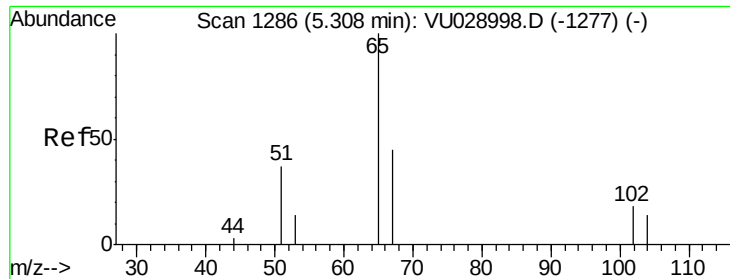
Tgt Ion: 84 Resp: 479  
Ion Ratio Lower Upper  
84 100  
49 83.1 91.9 137.9#  
51 0.0 29.2 43.8#  
86 40.9 51.8 77.6#



#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.97 min Scan# 1182  
Delta R.T. -0.02 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion: 56 Resp: 2375  
Ion Ratio Lower Upper  
56 100  
69 182.2 26.7 40.1#  
84 177.0 65.7 98.5#

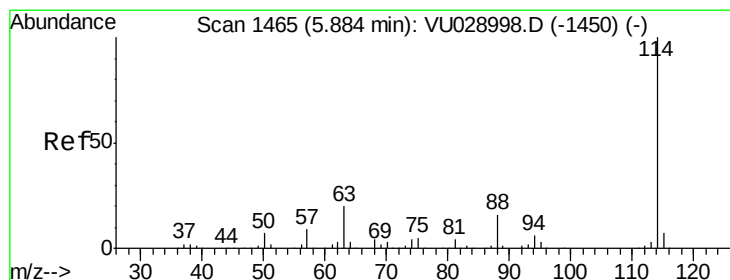
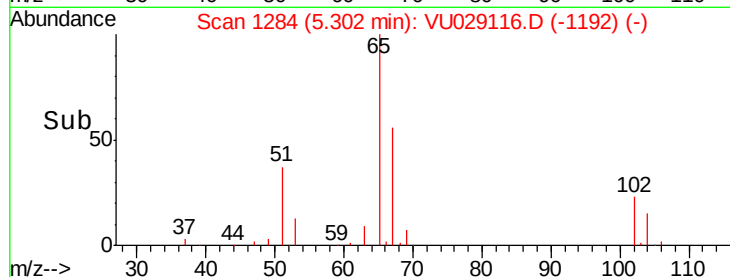
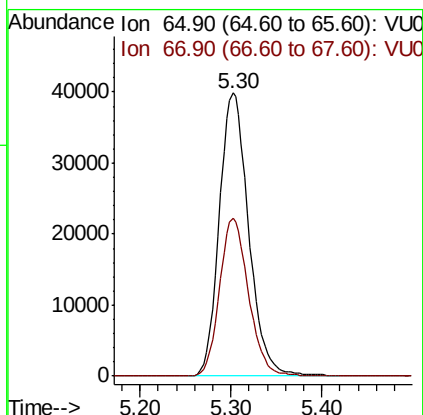
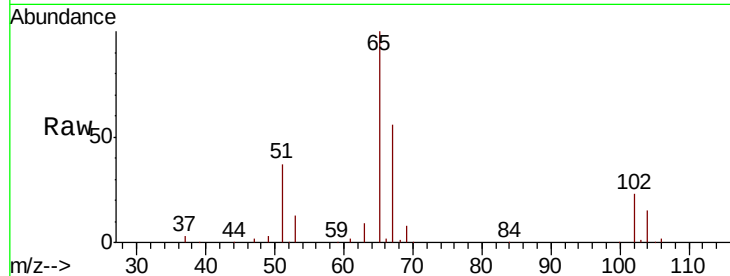




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.265 ug/l  
 RT: 5.30 min Scan# 1284  
 Delta R.T. -0.00 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

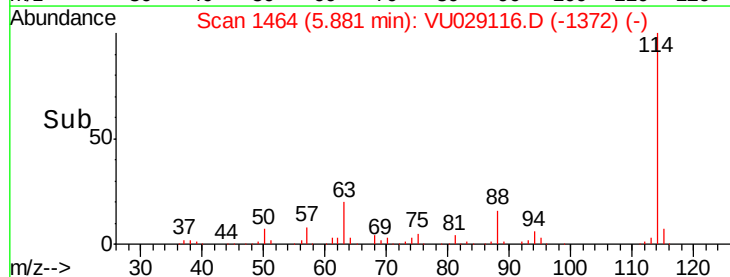
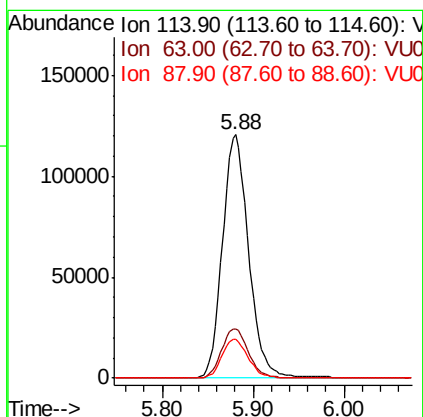
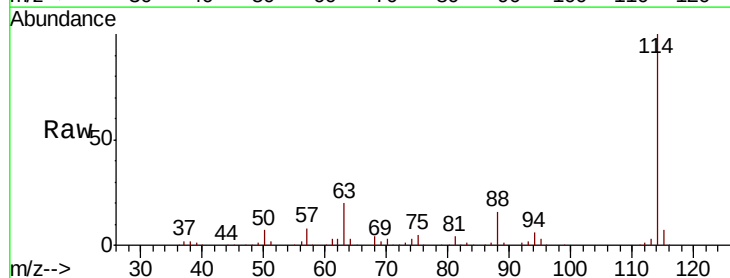
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

Tgt Ion: 65 Resp: 89427  
 Ion Ratio Lower Upper  
 65 100  
 67 55.0 0.0 111.0

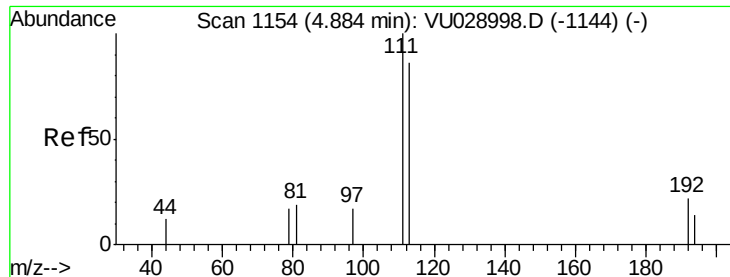


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.88 min Scan# 1464  
 Delta R.T. -0.00 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

Tgt Ion: 114 Resp: 242045  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 0.0 40.2  
 88 15.7 0.0 30.4



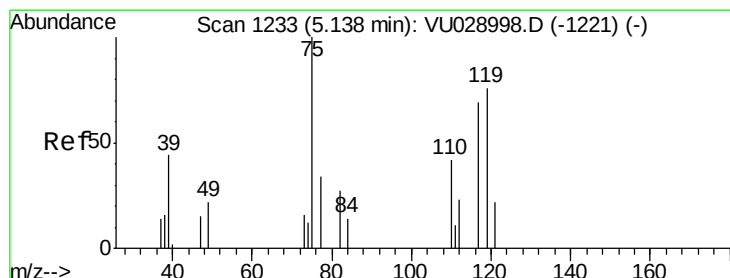
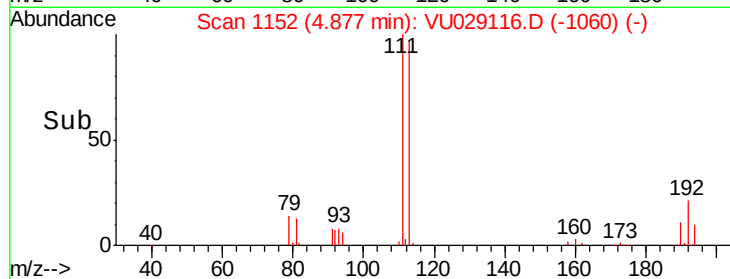
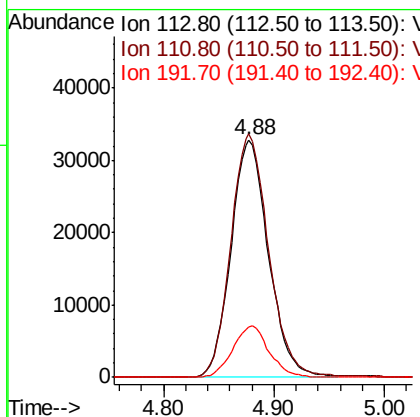
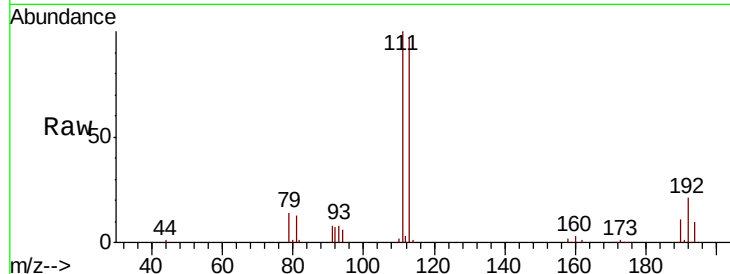




#35  
Dibromofluoromethane  
Concen: 49.226 ug/l  
RT: 4.88 min Scan# 1152  
Delta R.T. -0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

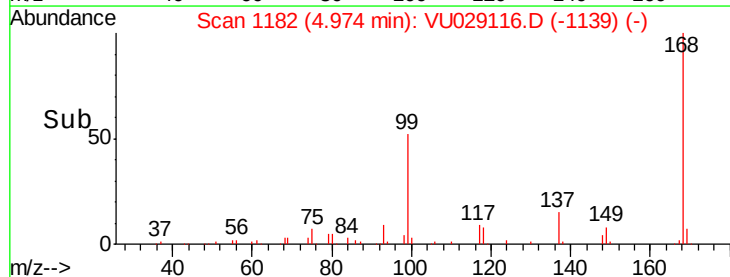
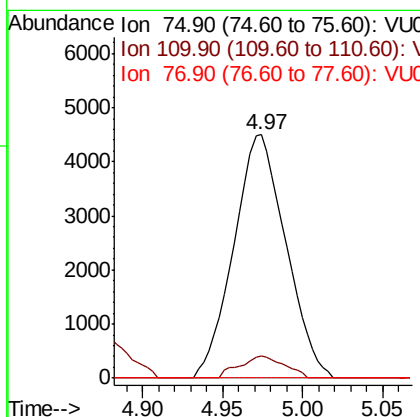
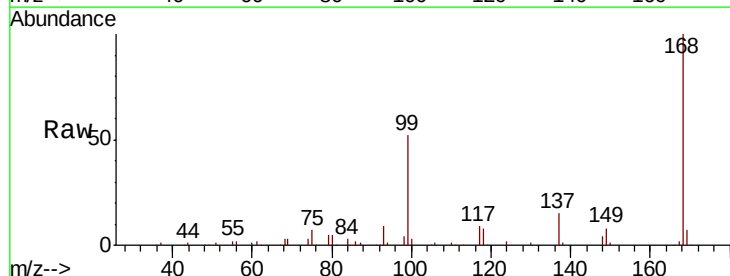
Instrument :  
MSVOA\_U  
ClientSampleId :  
S72-IDW01

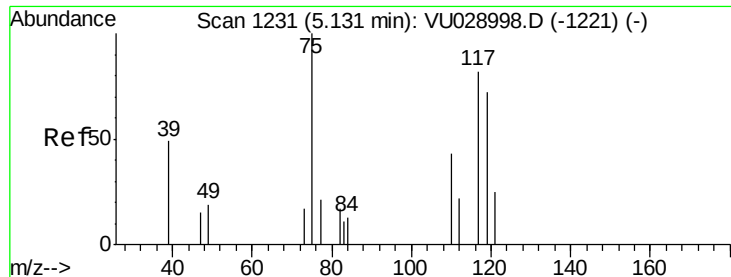
Tgt Ion:113 Resp: 77236  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.4 122.2  
192 21.1 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.140 ug/l  
RT: 4.97 min Scan# 1182  
Delta R.T. -0.16 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion: 75 Resp: 10017  
Ion Ratio Lower Upper  
75 100  
110 7.8 18.4 55.4#  
77 0.0 25.1 37.7#

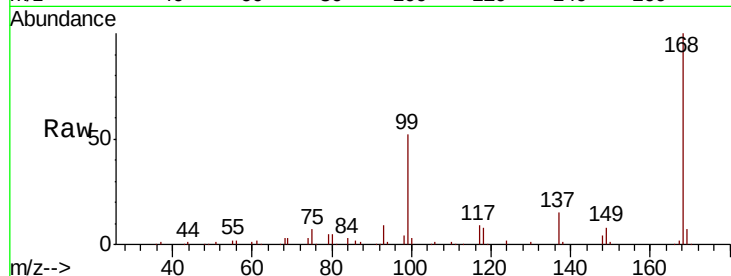




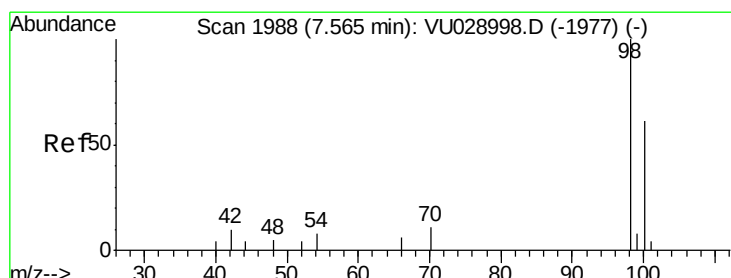
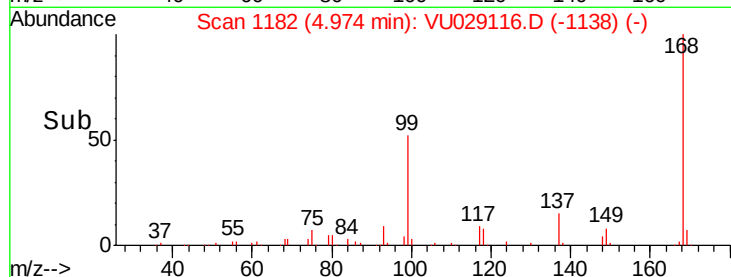
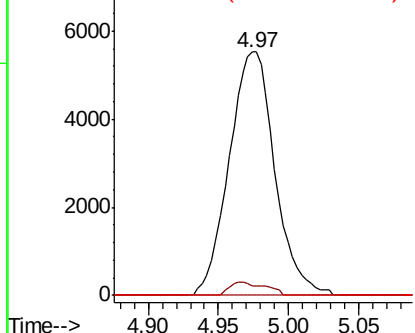
#38  
Carbon Tetrachloride  
Concen: 6.189 ug/l  
RT: 4.97 min Scan# 1182  
Delta R.T. -0.16 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Instrument :  
MSVOA\_U  
ClientSampled :  
S72-IDW01

Tgt Ion:117 Resp: 12488  
Ion Ratio Lower Upper  
117 100  
119 4.0 74.6 111.8#  
121 0.0 25.0 37.6#

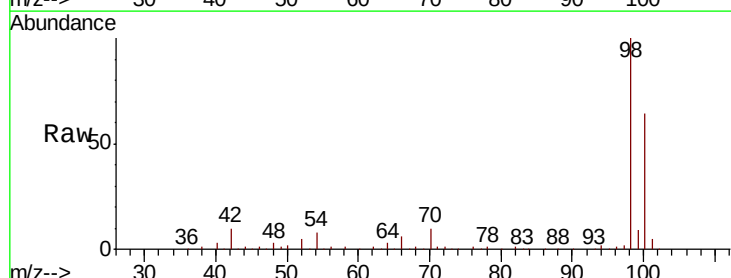


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

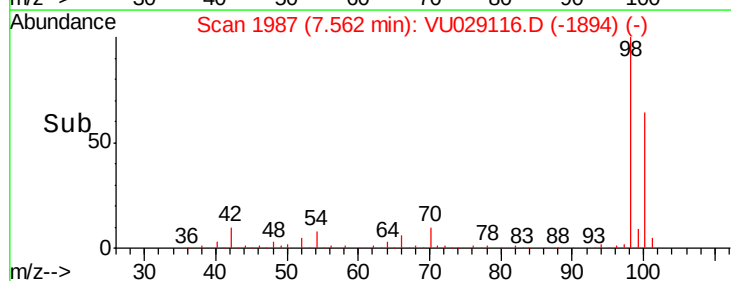
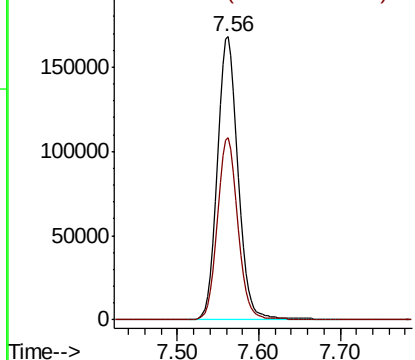


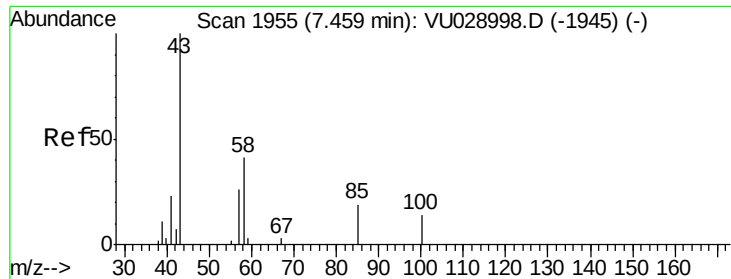
#50  
Toluene-d8  
Concen: 49.037 ug/l  
RT: 7.56 min Scan# 1987  
Delta R.T. 0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion: 98 Resp: 303747  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0  
Ion 100.00 (99.70 to 100.70): VU

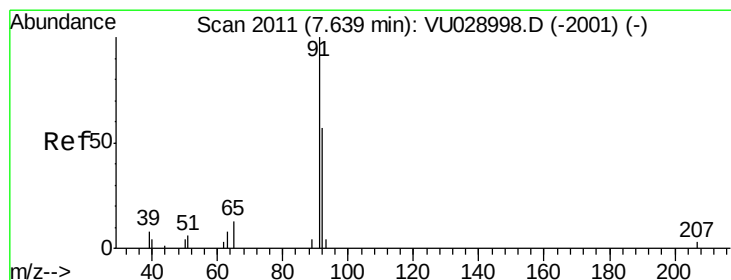
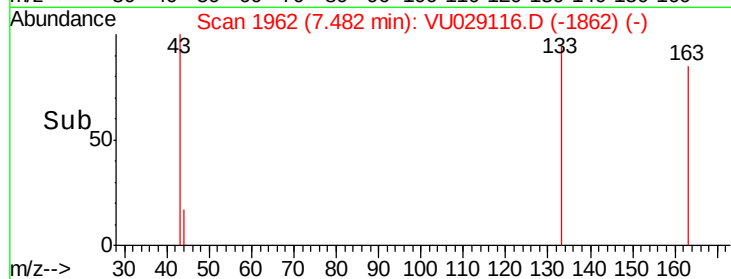
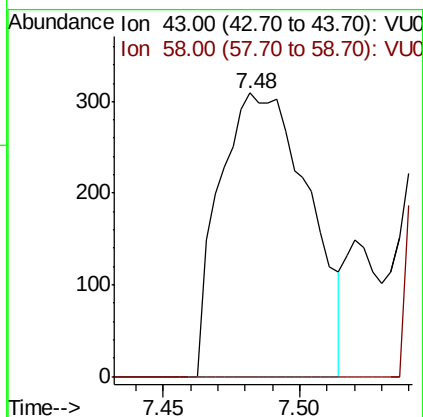
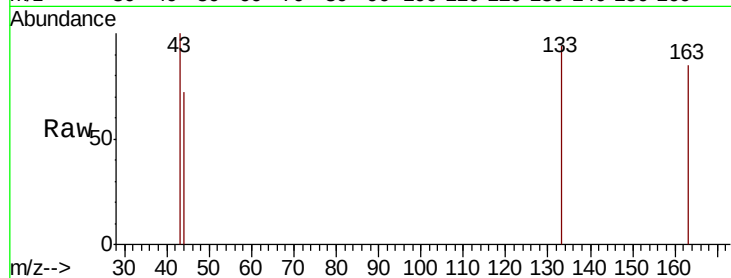




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.252 ug/l  
 RT: 7.48 min Scan# 1962  
 Delta R.T. 0.02 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

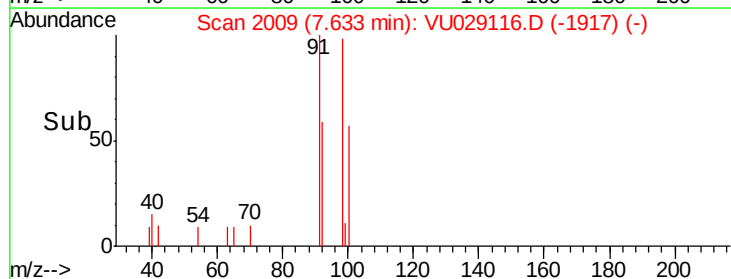
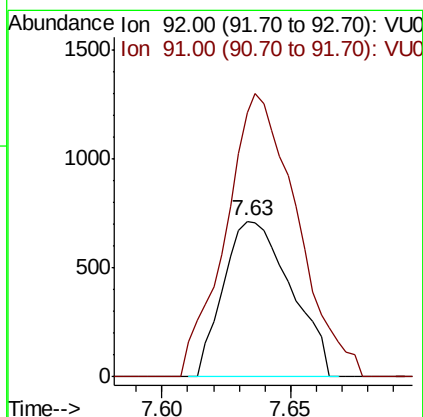
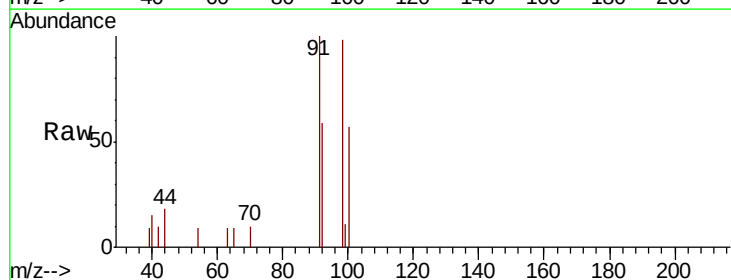
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

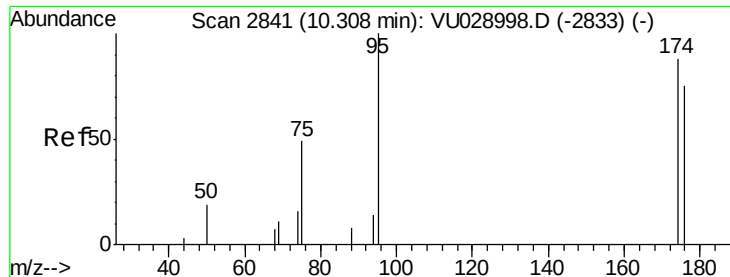
Tgt Ion: 43 Resp: 700  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 33.9 50.9#



#52  
 Toluene  
 Concen: 0.283 ug/l  
 RT: 7.63 min Scan# 2009  
 Delta R.T. -0.00 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

Tgt Ion: 92 Resp: 1298  
 Ion Ratio Lower Upper  
 92 100  
 91 193.0 139.8 209.8

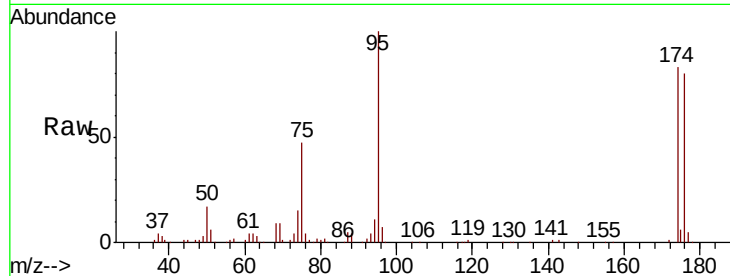




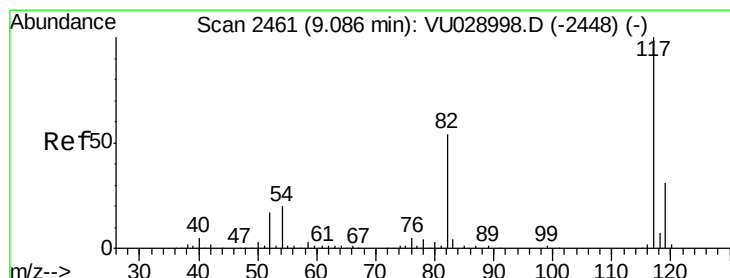
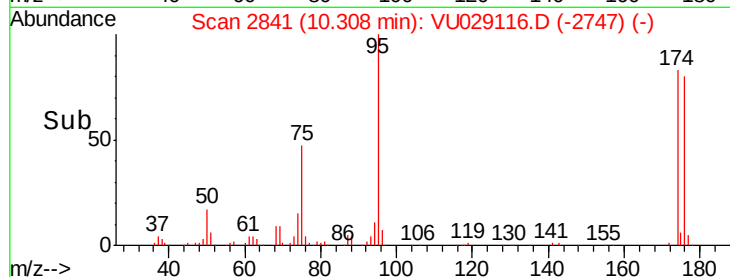
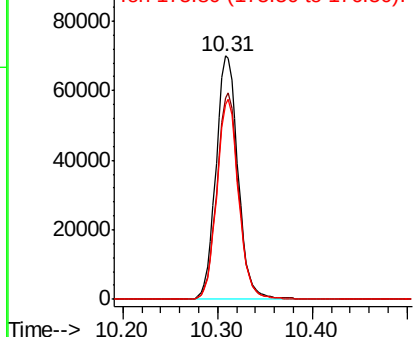
#62  
4-Bromofluorobenzene  
Concen: 51.024 ug/l  
RT: 10.31 min Scan# 2841  
Delta R.T. 0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Instrument :  
MSVOA\_U  
ClientSampleId :  
S72-IDW01

Tgt Ion: 95 Resp: 113584  
Ion Ratio Lower Upper  
95 100  
174 83.8 0.0 170.6  
176 80.5 0.0 165.0

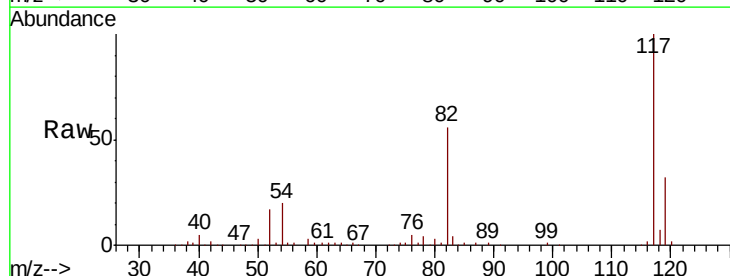


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)  
Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)  
Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

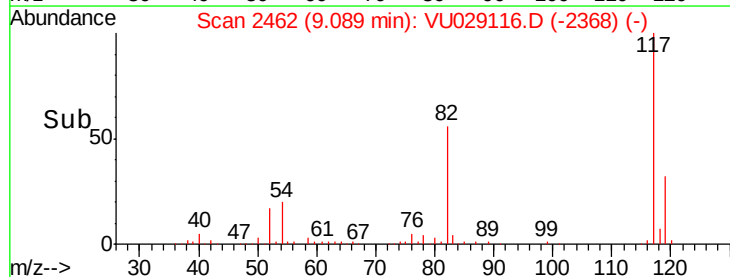
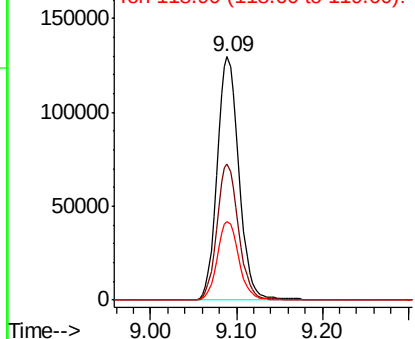


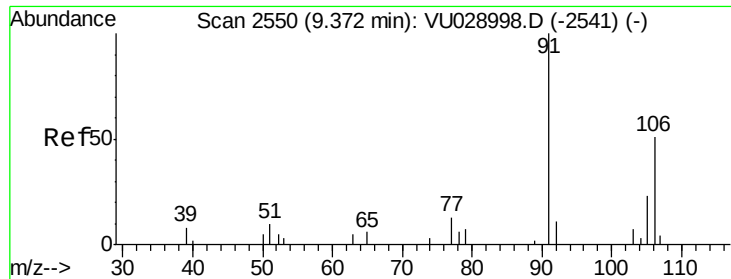
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. 0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion: 117 Resp: 228899  
Ion Ratio Lower Upper  
117 100  
82 55.8 43.9 65.9  
119 32.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU028998.D (-2448) (-)  
Ion 82.00 (81.70 to 82.70): VU028998.D (-2448) (-)  
Ion 118.90 (118.60 to 119.60): VU028998.D (-2448) (-)

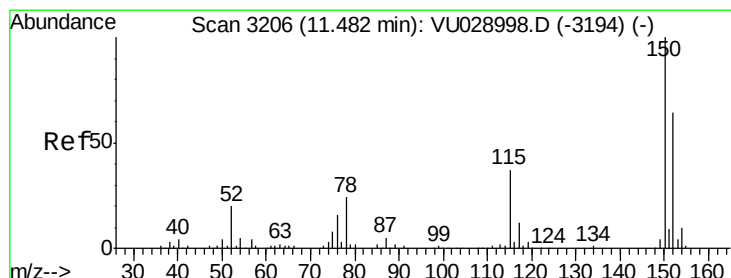
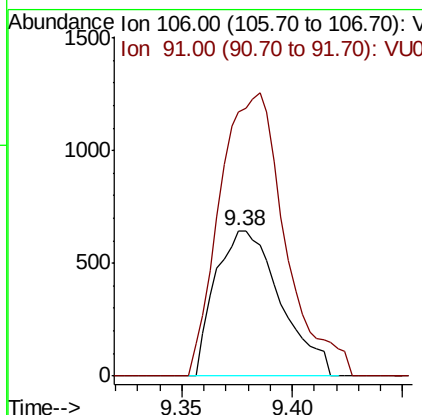
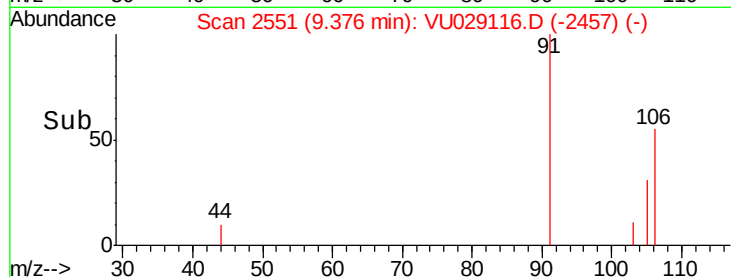
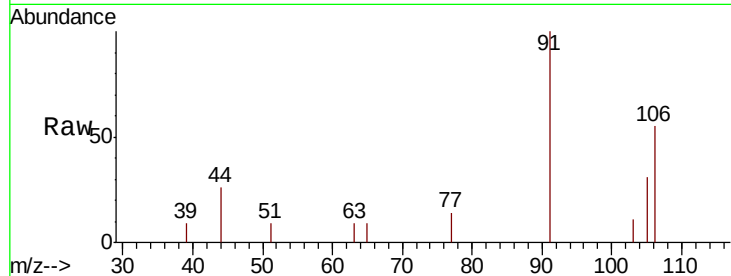




#68  
m/p-Xylenes  
Concen: 0.396 ug/l  
RT: 9.38 min Scan# 2551  
Delta R.T. 0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

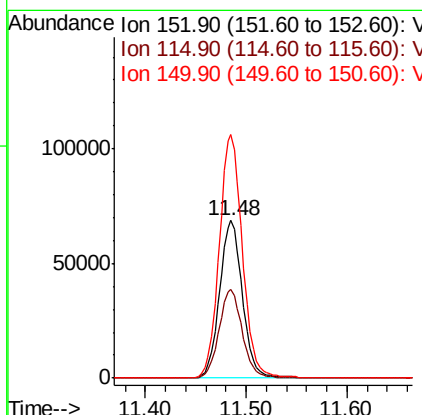
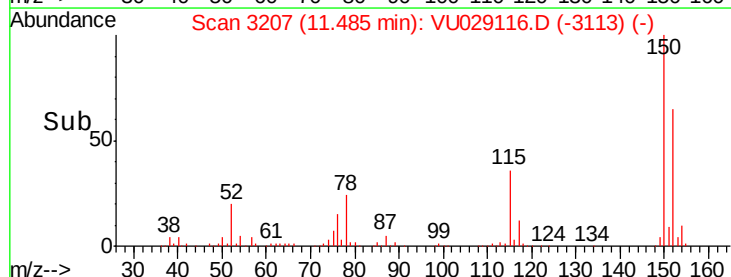
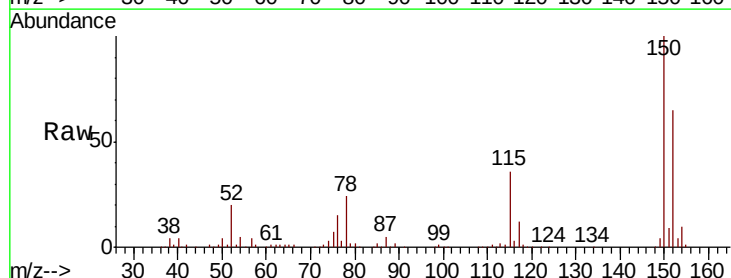
Instrument :  
MSVOA\_U  
ClientSampleId :  
S72-IDW01

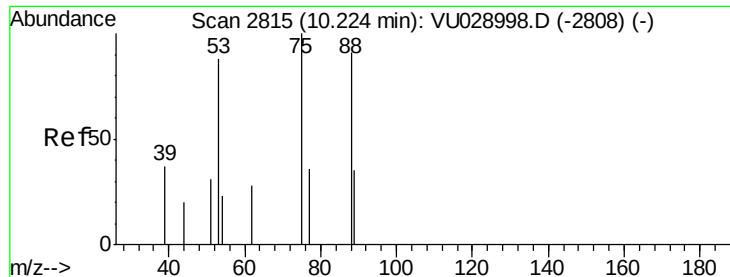
Tgt Ion:106 Resp: 1317  
Ion Ratio Lower Upper  
106 100  
91 195.9 161.7 242.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU029116.D  
Acq: 10 Jan 2019 14:16

Tgt Ion:152 Resp: 109201  
Ion Ratio Lower Upper  
152 100  
115 56.9 40.1 120.3  
150 155.6 0.0 345.2

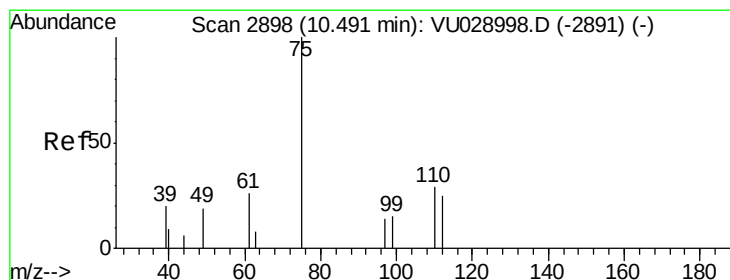
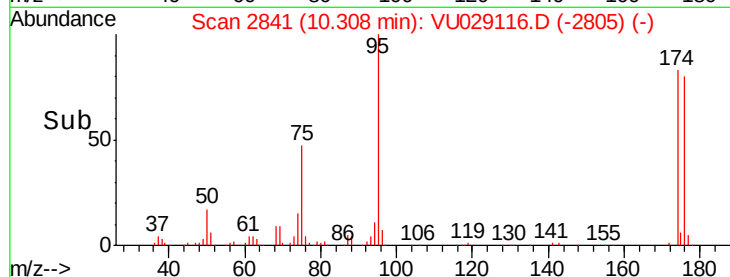
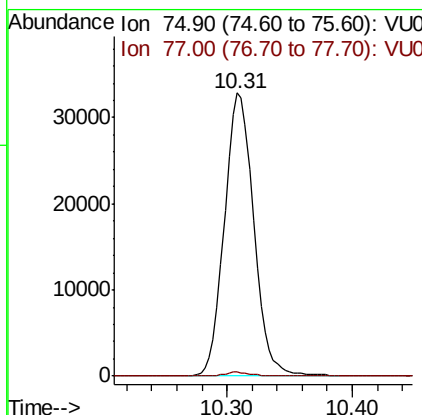
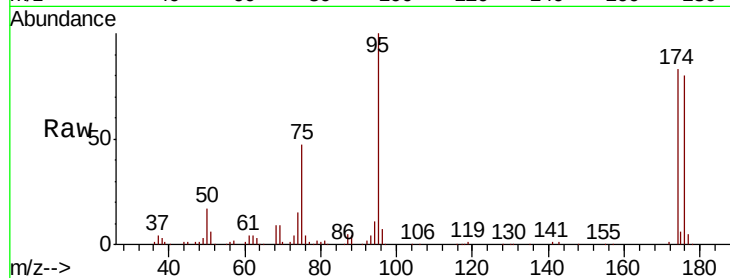




#76  
 1,2,3-Trichloropropane  
 Concen: 19.932 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.18 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

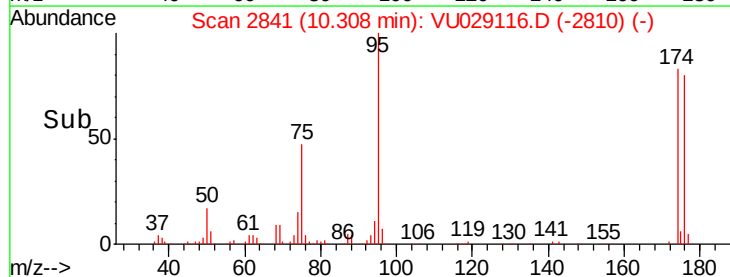
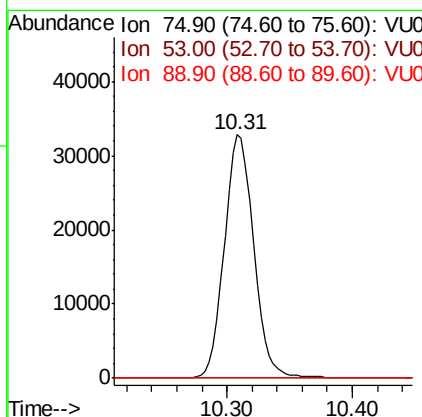
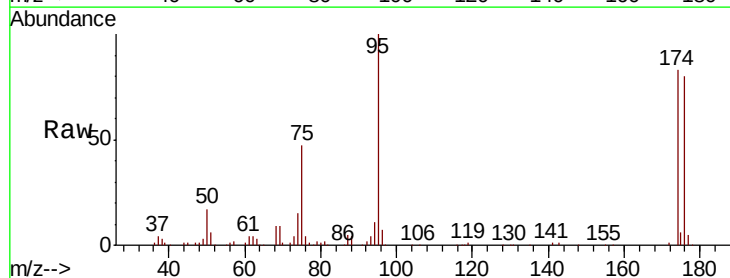
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

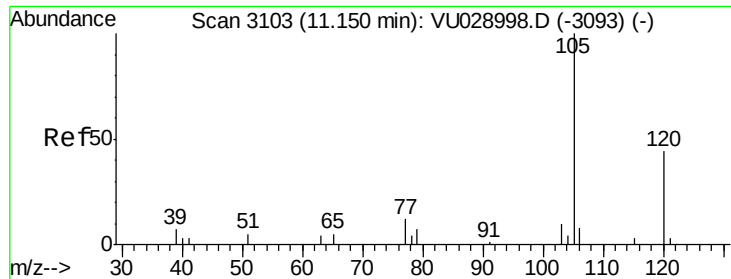
Tgt Ion: 75 Resp: 53331  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 20.9 62.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 51.407 ug/l  
 RT: 10.31 min Scan# 2841  
 Delta R.T. -0.20 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

Tgt Ion: 75 Resp: 53331  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0  
 89 0.0 0.0 0.0

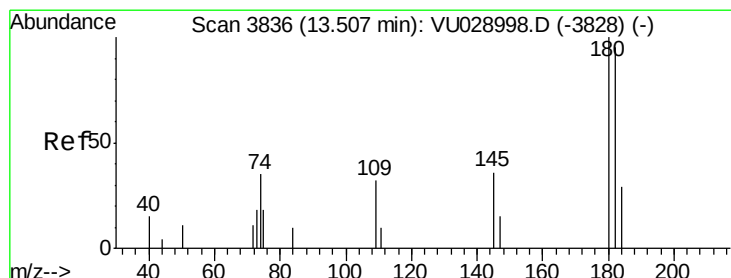
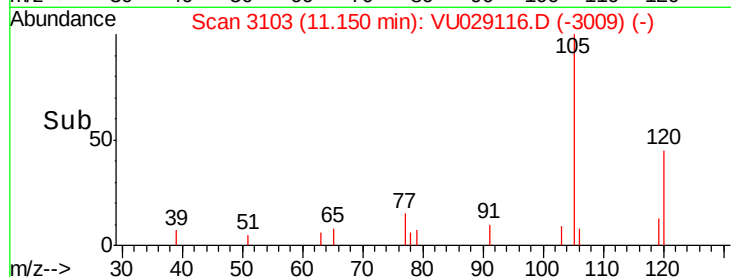
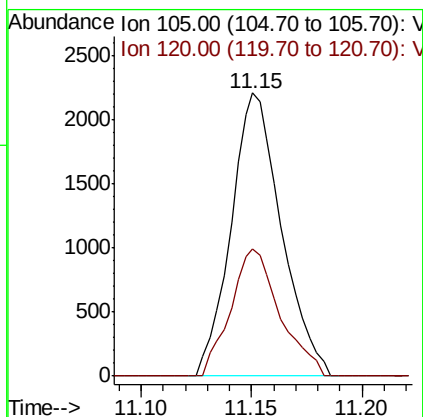
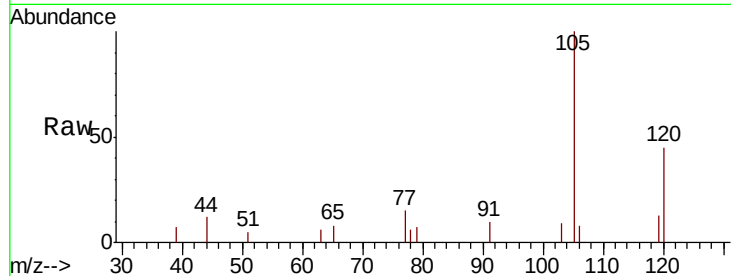




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.519 ug/l  
 RT: 11.15 min Scan# 3103  
 Delta R.T. 0.00 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

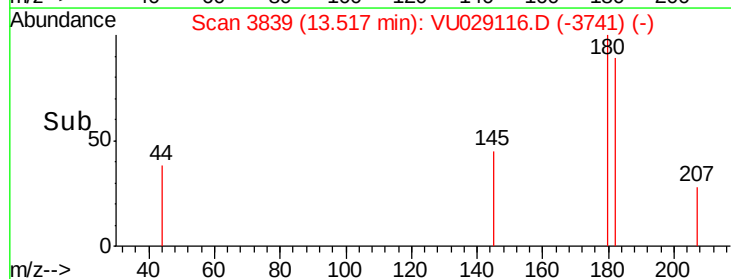
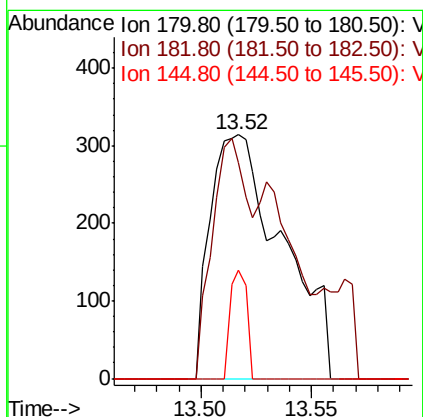
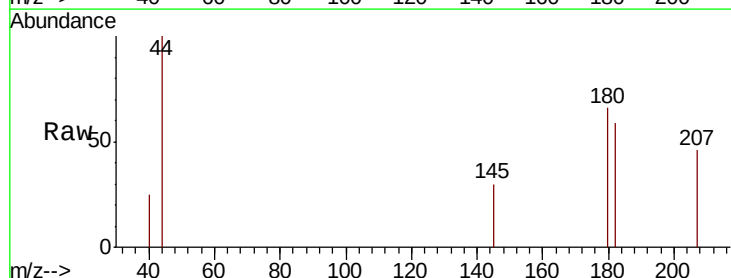
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

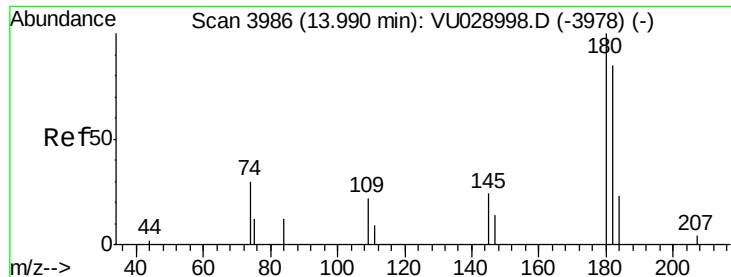
Tgt Ion:105 Resp: 3496  
 Ion Ratio Lower Upper  
 105 100  
 120 43.8 23.1 69.3



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.286 ug/l  
 RT: 13.52 min Scan# 3839  
 Delta R.T. 0.02 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

Tgt Ion:180 Resp: 710  
 Ion Ratio Lower Upper  
 180 100  
 182 49.6 47.5 142.6  
 145 10.3 14.0 42.0#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.140 ug/l  
 RT: 14.00 min Scan# 3988  
 Delta R.T. 0.01 min  
 Lab File: VU029116.D  
 Acq: 10 Jan 2019 14:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 S72-IDW01

Tgt Ion:180 Resp: 948  
 Ion Ratio Lower Upper  
 180 100  
 182 82.0 48.1 144.3  
 145 18.8 14.8 44.4

