

Data File : VU027026.D  
Acq On : 22 Sep 2018 19:17  
Operator : MD/SY  
Sample : J4934-17  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 66 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ145D-20180912

Quant Time: Sep 24 02:52:49 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 93752    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 156696   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 150741   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 69920    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 95290    | 50.50 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.00% |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 66713    | 49.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.24%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 252051   | 48.69 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.38%  |      |
| 62) 4-Bromofluorobenzene    | 10.31  | 95  | 80136    | 45.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.24%  |      |

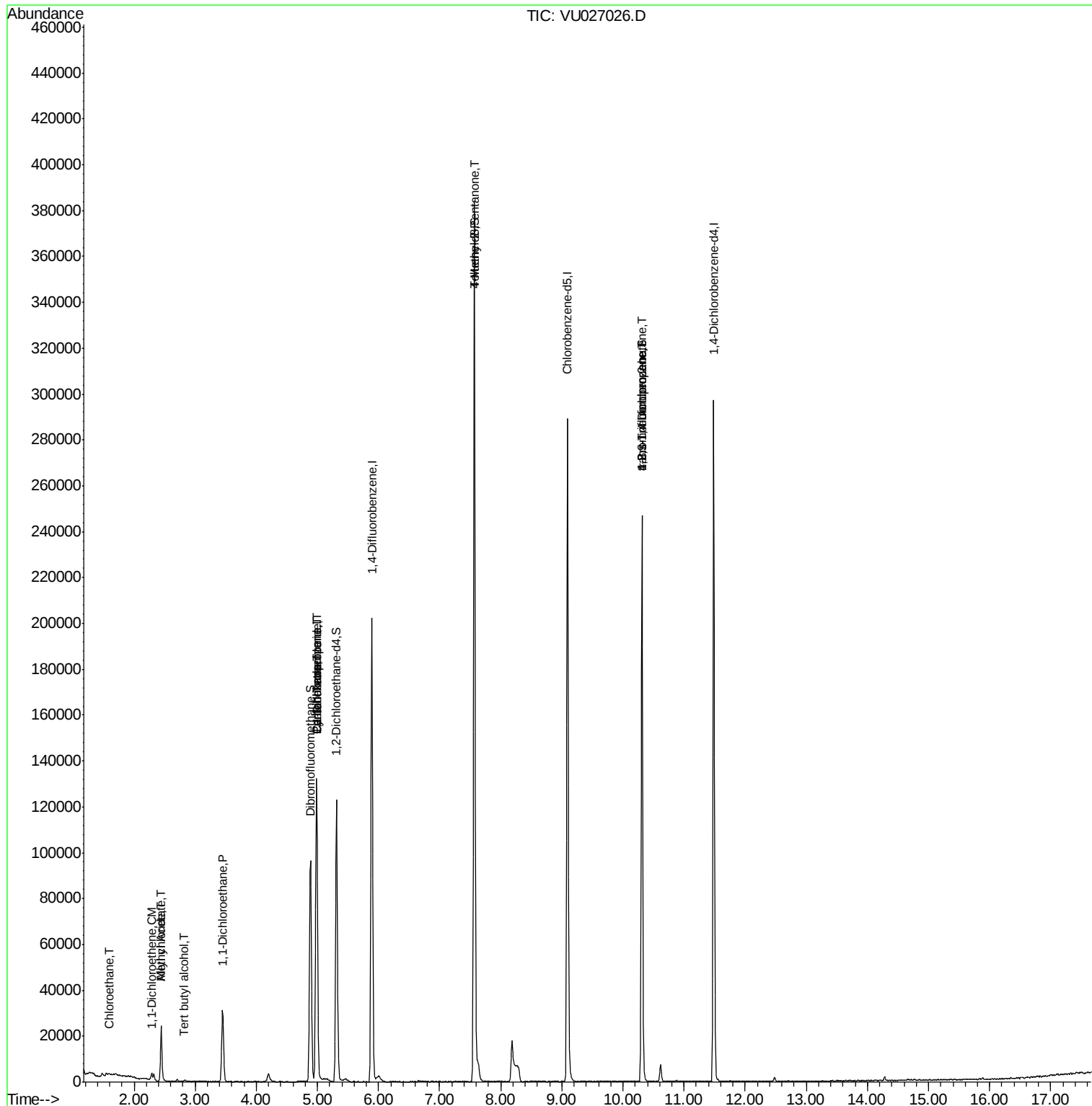
|                                |       |     |        |           |        |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| Target Compounds               |       |     | Qvalue |           |        |     |
| 6) Chloroethane                | 1.59  | 64  | 2874   | 2.283     | ug/l # | 43  |
| 11) Tert butyl alcohol         | 2.83  | 59  | 435    | 1.006     | ug/l # | 72  |
| 12) 1,1-Dichloroethene         | 2.29  | 96  | 821    | 0.634     | ug/l # | 84  |
| 14) Allyl chloride             | 2.44  | 41  | 2183   | 0.831     | ug/l # | 69  |
| 16) Acetone                    | 2.32  | 43  | 2979   | Below Cal |        | 97  |
| 18) Methyl Acetate             | 2.44  | 43  | 6003   | 2.235     | ug/l # | 55  |
| 24) 1,1-Dichloroethane         | 3.45  | 63  | 35507  | 11.477    | ug/l   | 100 |
| 31) Cyclohexane                | 4.99  | 56  | 2352   | 0.264     | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 4.98  | 75  | 8942   | 4.276     | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 4.99  | 117 | 10073  | 5.061     | ug/l # | 17  |
| 51) 4-Methyl-2-Pentanone       | 7.56  | 43  | 1164   | 0.419     | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75  | 43718  | 20.581    | ug/l # | 36  |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75  | 43718  | 65.864    | ug/l # | 100 |

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

Instrument :

MSVOA\_U

ClientSampleId :

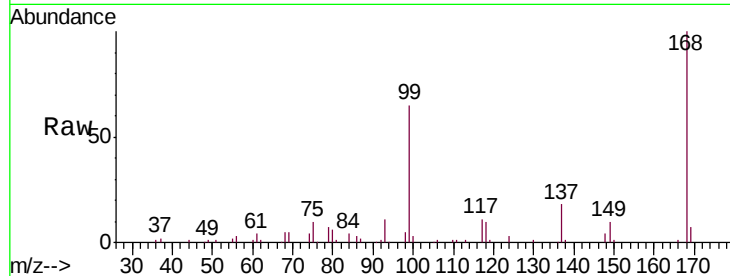
SA-PZ145D-20180912

Tgt Ion:168 Resp: 93752

Ion Ratio Lower Upper

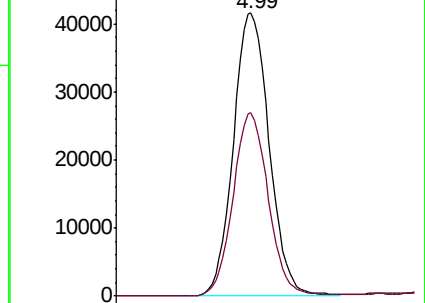
168 100

99 65.0 48.1 72.1

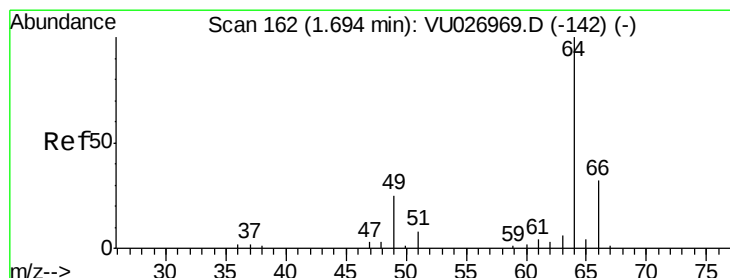
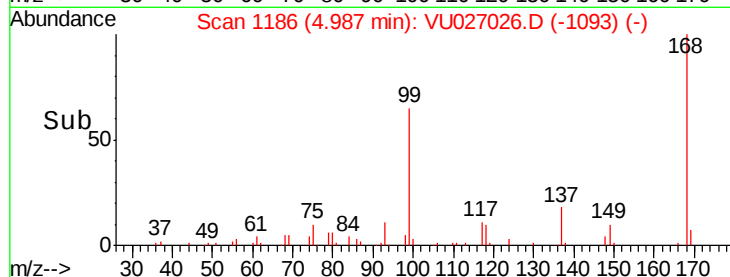


Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)



Time-->



#6

Chloroethane

Concen: 2.283 ug/l

RT: 1.59 min Scan# 130

Delta R.T. -0.10 min

Lab File: VU027026.D

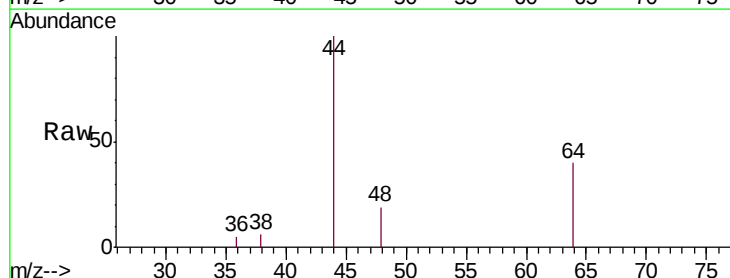
Acq: 22 Sep 2018 19:17

Tgt Ion: 64 Resp: 2874

Ion Ratio Lower Upper

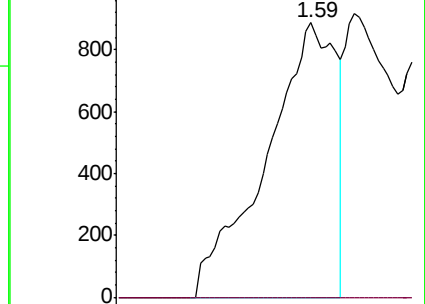
64 100

66 0.0 25.3 37.9#

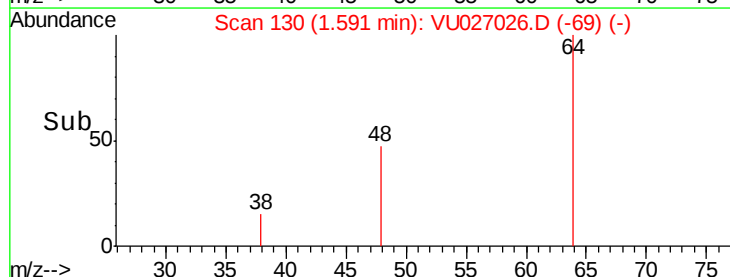


Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)



Time-->



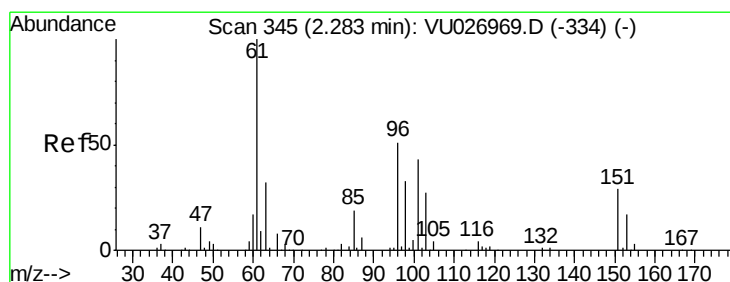
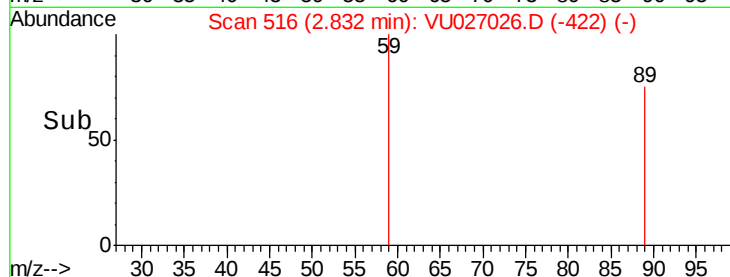
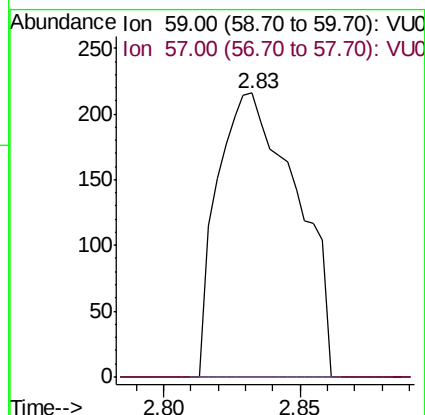
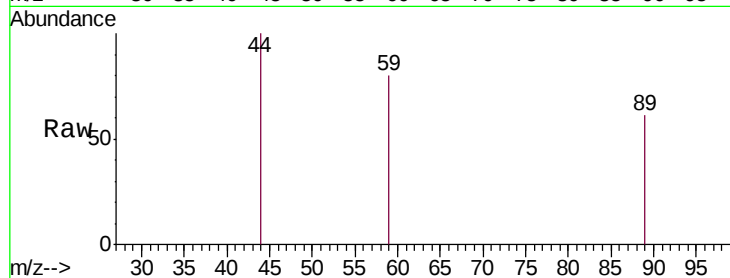


#11

Tert butyl alcohol  
 Concen: 1.006 ug/l  
 RT: 2.83 min Scan# 516  
 Delta R.T. 0.00 min  
 Lab File: VU027026.D  
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Instrument :  
 MSVOA\_U  
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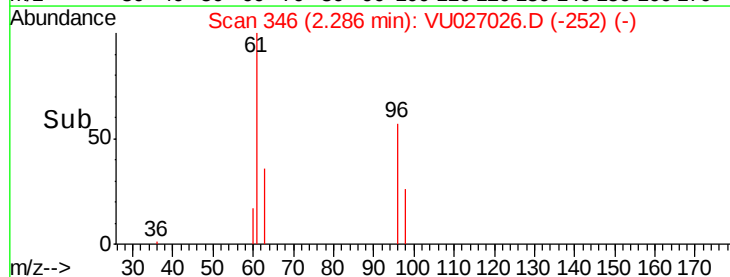
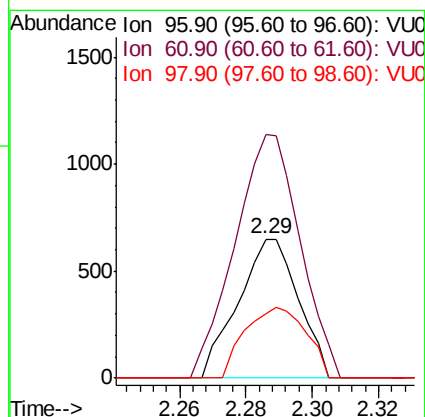
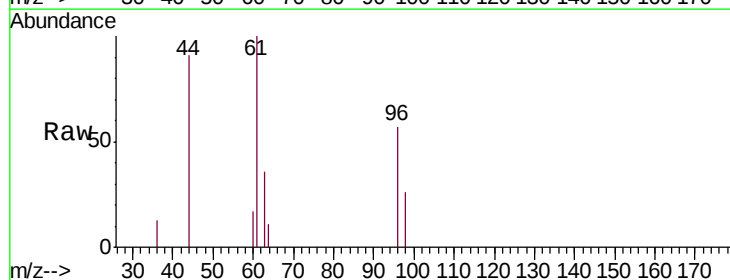
Tgt Ion: 59 Resp: 435  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#

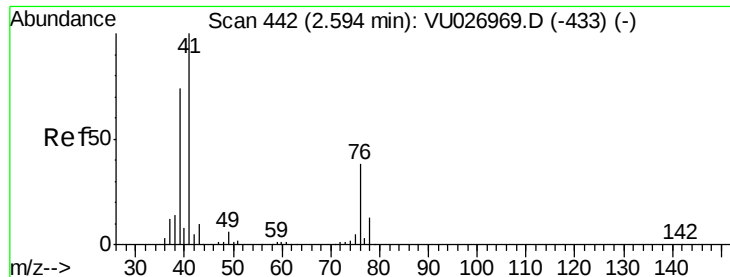


#12

1,1-Dichloroethene  
 Concen: 0.634 ug/l  
 RT: 2.29 min Scan# 346  
 Delta R.T. 0.00 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

Tgt Ion: 96 Resp: 821  
 Ion Ratio Lower Upper  
 96 100  
 61 175.1 156.1 234.1  
 98 46.3 51.4 77.0#

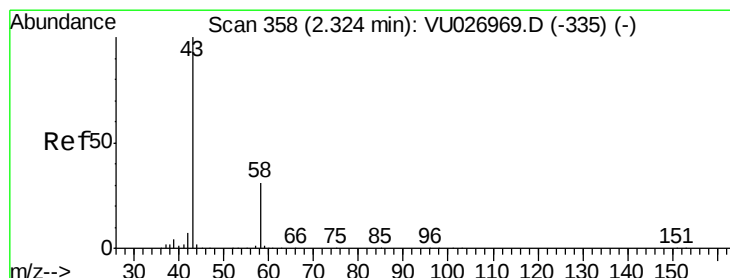
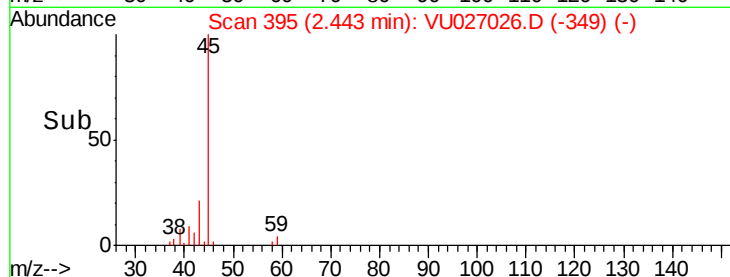
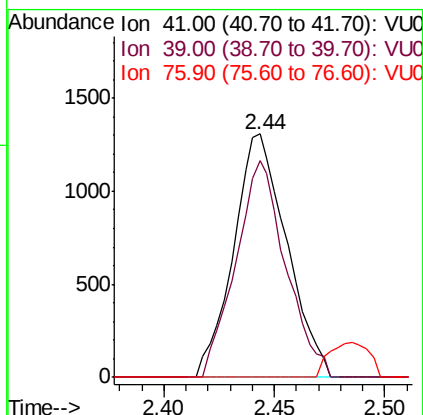
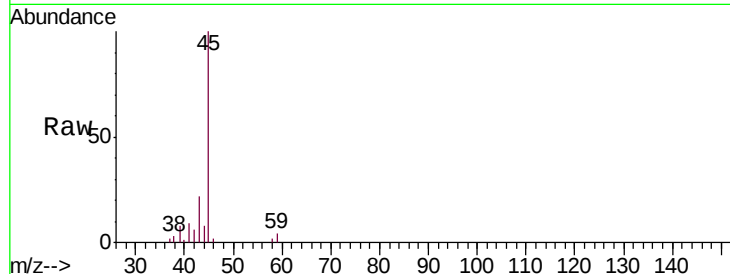




#14  
 Allyl chloride  
 Concen: 0.831 ug/l  
 RT: 2.44 min Scan# 395  
 Delta R.T. -0.15 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

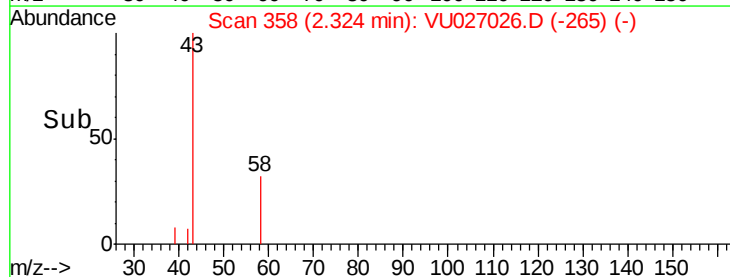
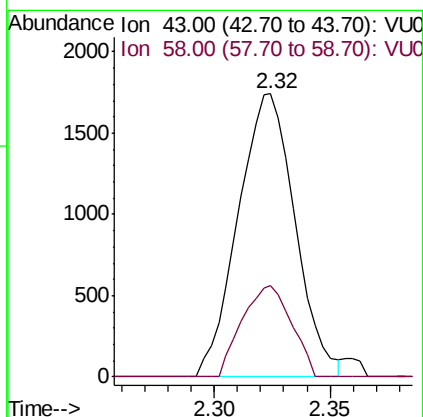
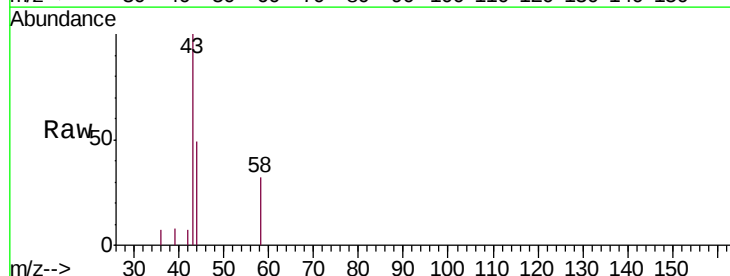
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ145D-20180912

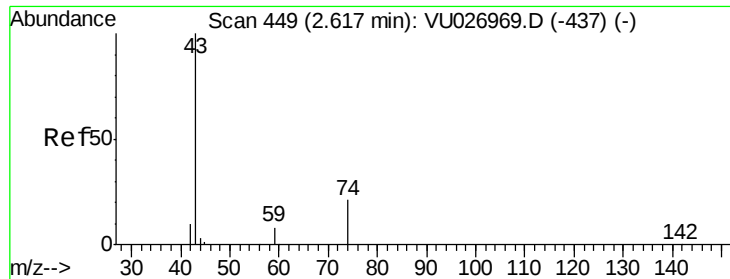
Tgt Ion: 41 Resp: 2183  
 Ion Ratio Lower Upper  
 41 100  
 39 83.7 55.7 83.5#  
 76 0.0 26.5 39.7#



#16  
 Acetone  
 Concen: Below Cal  
 RT: 2.32 min Scan# 358  
 Delta R.T. 0.00 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

Tgt Ion: 43 Resp: 2979  
 Ion Ratio Lower Upper  
 43 100  
 58 32.5 24.6 36.8

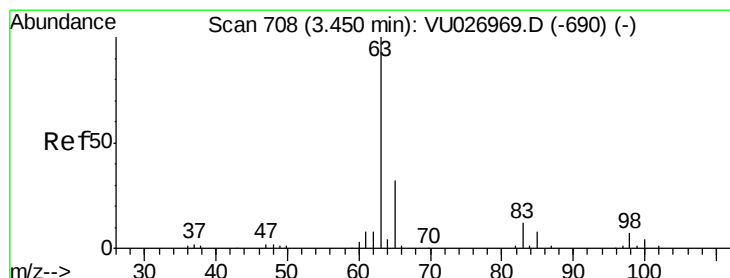
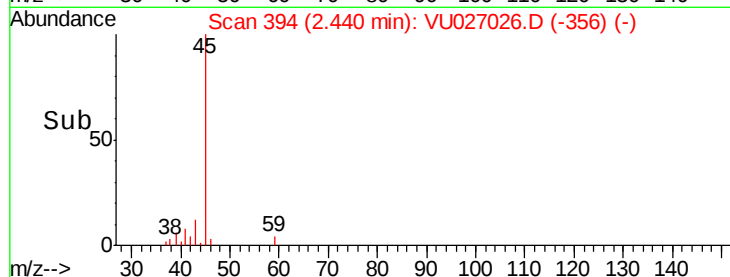
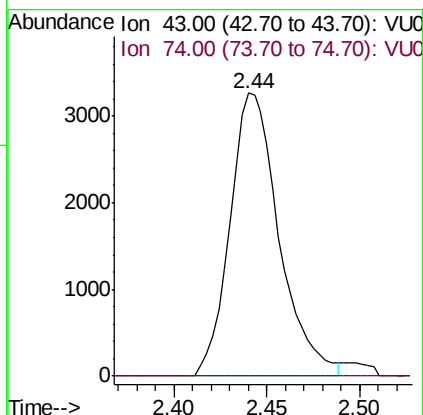
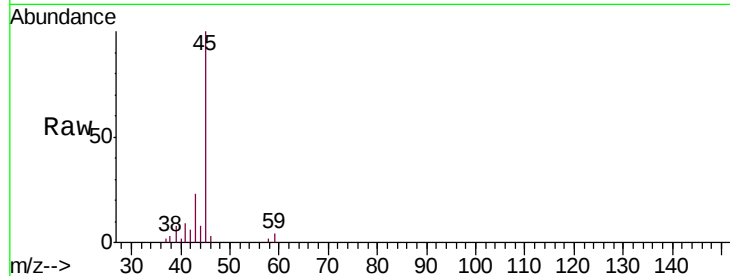




#18  
Methyl Acetate  
Concen: 2.235 ug/l  
RT: 2.44 min Scan# 394  
Delta R.T. -0.18 min  
Lab File: VU027026.D  
Acq: 22 Sep 2018 19:17

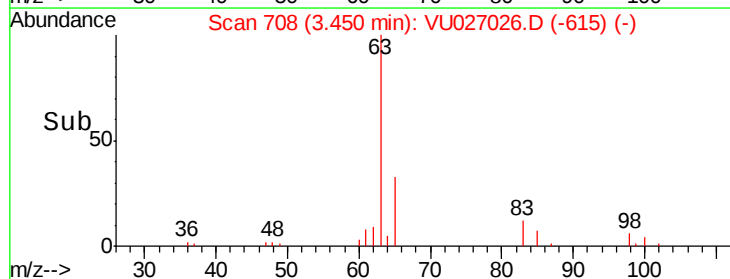
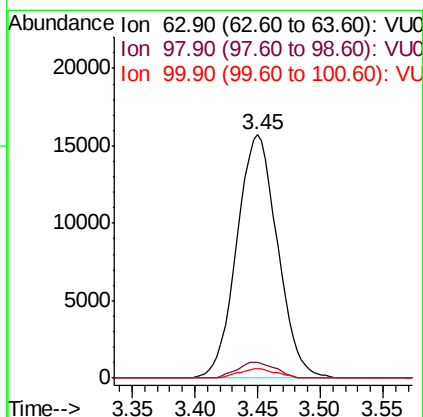
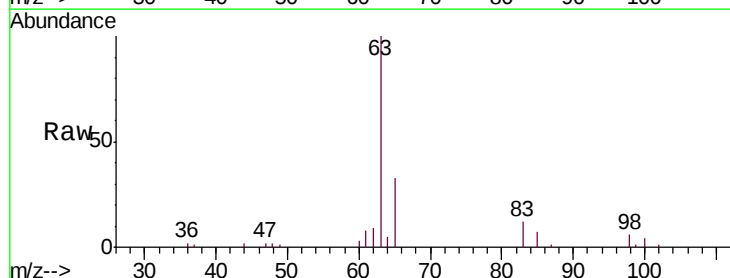
Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ145D-20180912

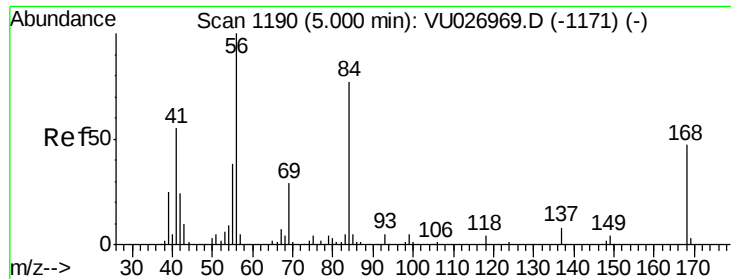
Tgt Ion: 43 Resp: 6003  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.6 25.0#



#24  
1,1-Dichloroethane  
Concen: 11.477 ug/l  
RT: 3.45 min Scan# 708  
Delta R.T. 0.00 min  
Lab File: VU027026.D  
Acq: 22 Sep 2018 19:17

Tgt Ion: 63 Resp: 35507  
Ion Ratio Lower Upper  
63 100  
98 6.5 3.3 9.8  
100 4.0 2.0 5.8

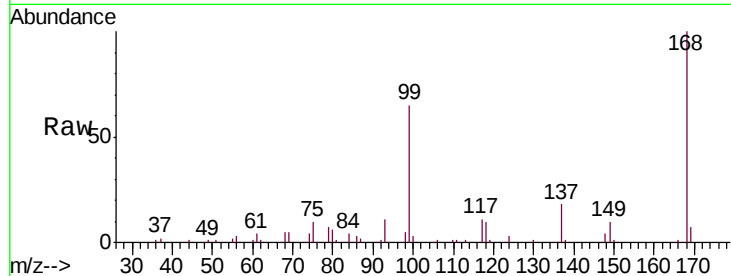




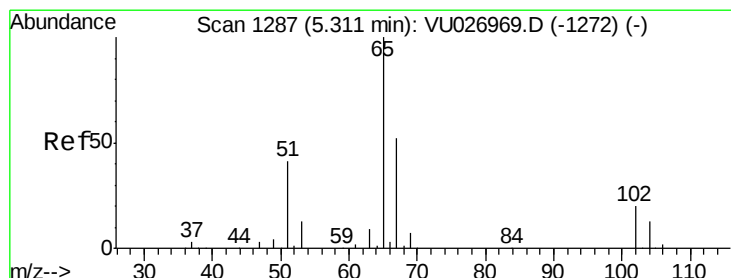
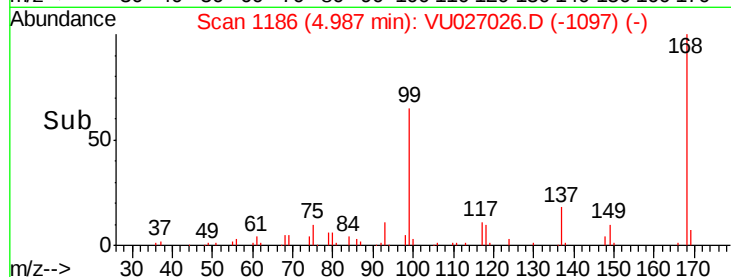
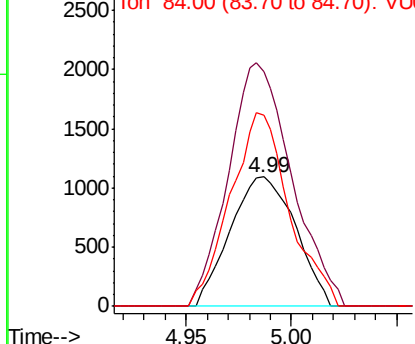
#31  
Cyclohexane  
Concen: 0.264 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: VU027026.D  
Acq: 22 Sep 2018 19:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
SA-PZ145D-20180912

Tgt Ion: 56 Resp: 2352  
Ion Ratio Lower Upper  
56 100  
69 180.9 23.0 34.4#  
84 147.3 61.4 92.2#

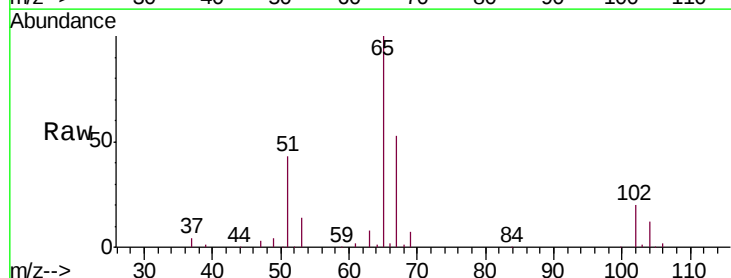


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

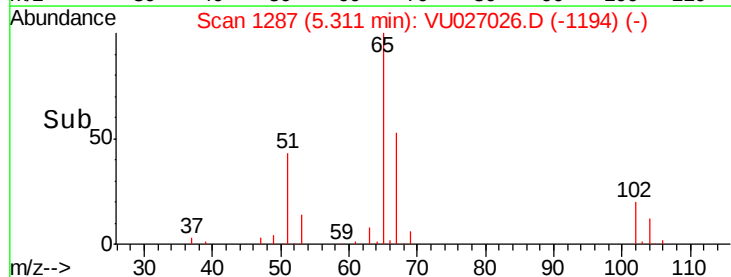
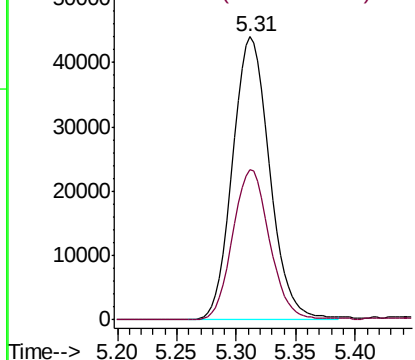


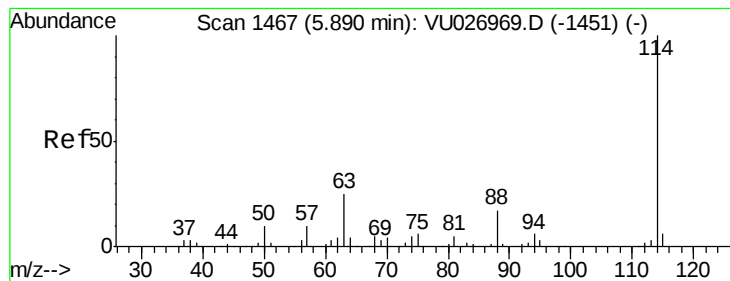
#33  
1,2-Dichloroethane-d4  
Concen: 50.500 ug/l  
RT: 5.31 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: VU027026.D  
Acq: 22 Sep 2018 19:17

Tgt Ion: 65 Resp: 95290  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ145D-20180912

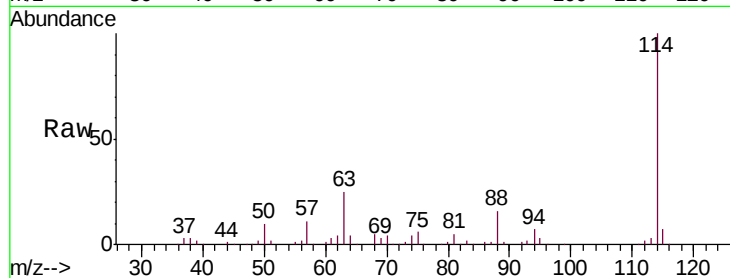
Tgt Ion:114 Resp: 156696

Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

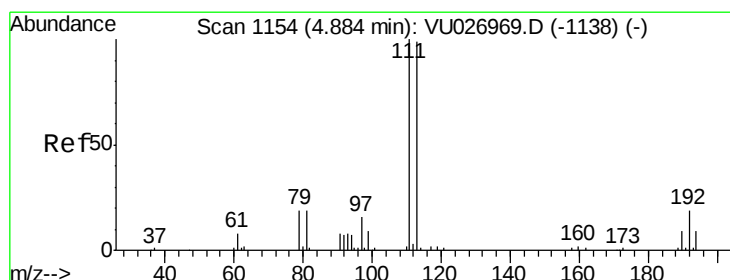
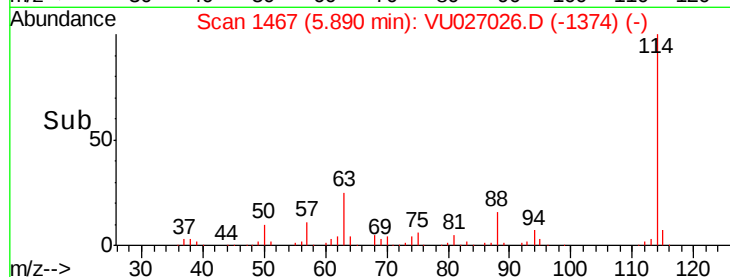
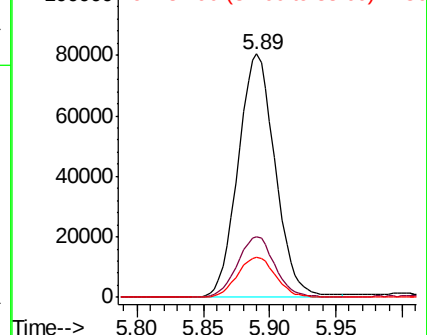
88 16.4 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 49.117 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

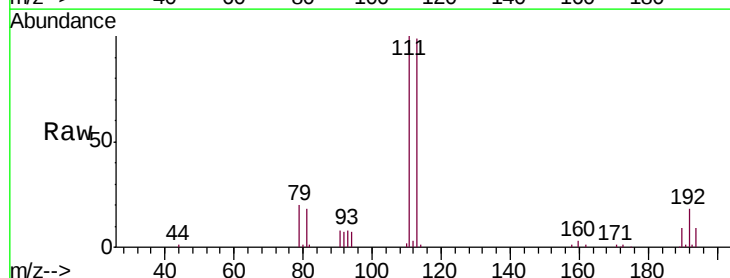
Tgt Ion:113 Resp: 66713

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

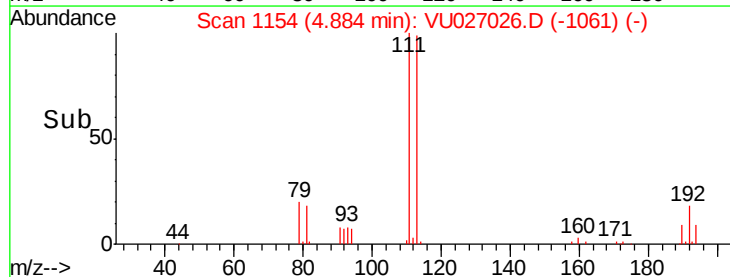
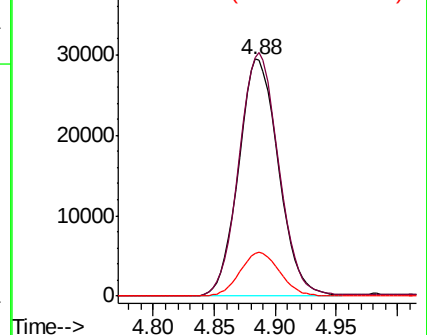
192 18.3 15.2 22.8

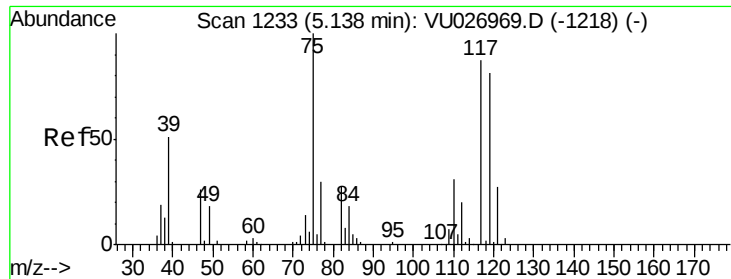


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

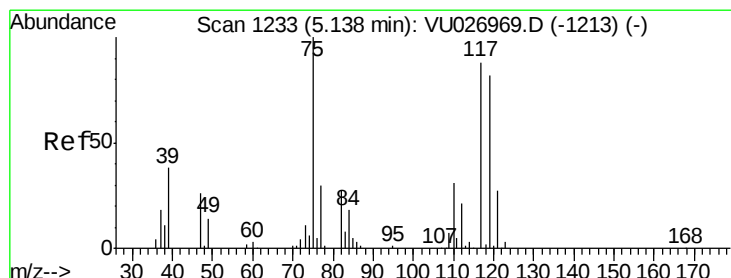
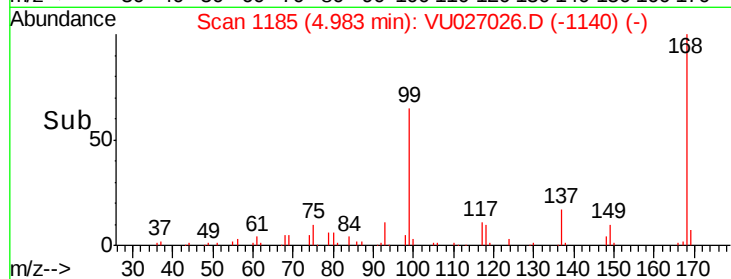
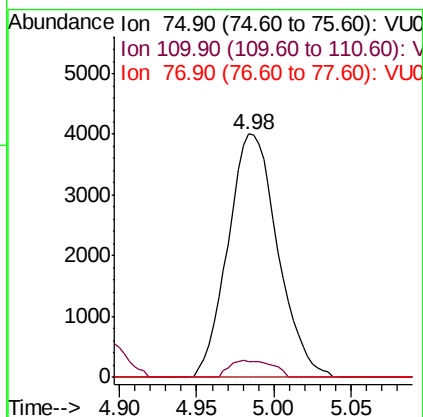
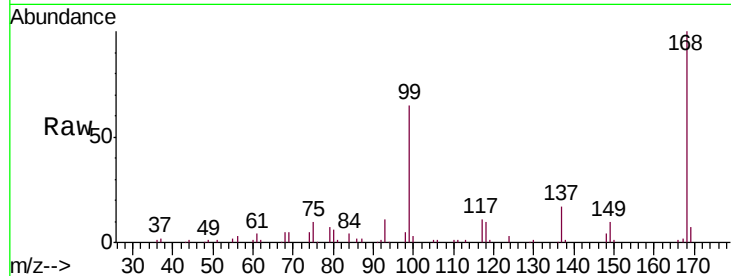




#36  
 1,1-Dichloropropene  
 Concen: 4.276 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

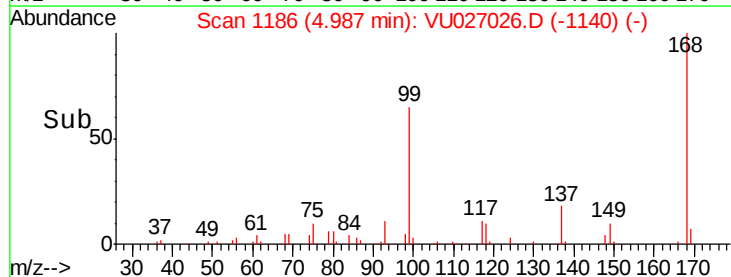
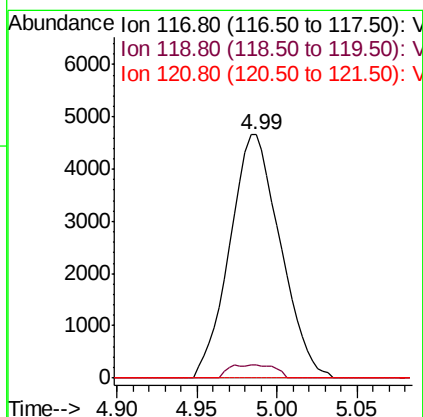
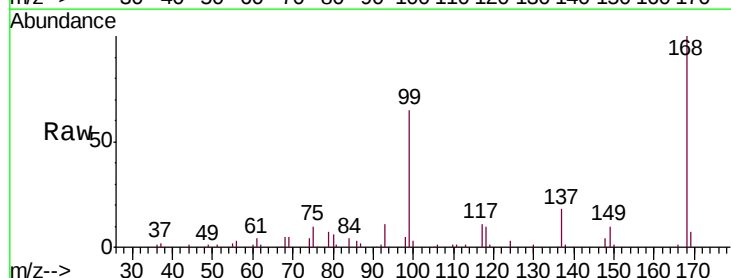
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ145D-20180912

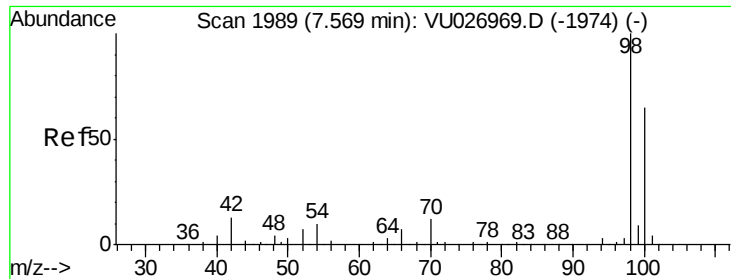
Tgt Ion: 75 Resp: 8942  
 Ion Ratio Lower Upper  
 75 100  
 110 6.0 16.1 48.2#  
 77 0.0 24.6 36.8#



#38  
 Carbon Tetrachloride  
 Concen: 5.061 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

Tgt Ion: 117 Resp: 10073  
 Ion Ratio Lower Upper  
 117 100  
 119 5.2 74.4 111.6#  
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 48.693 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

Instrument :

MSVOA\_U

ClientSampleId :

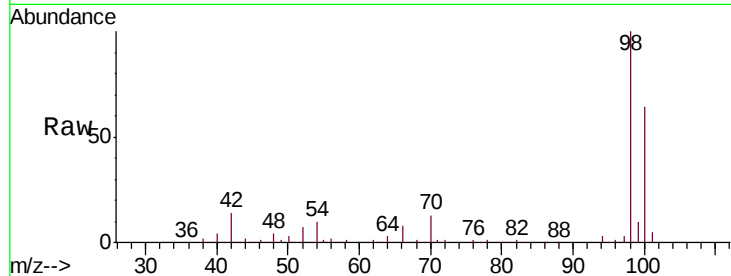
SA-PZ145D-20180912

Tgt Ion: 98 Resp: 252051

Ion Ratio Lower Upper

98 100

100 61.6 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)

7.57

150000

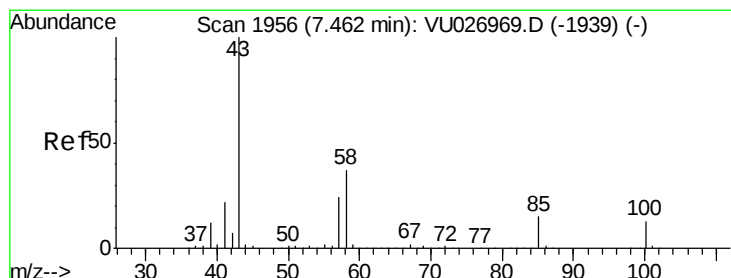
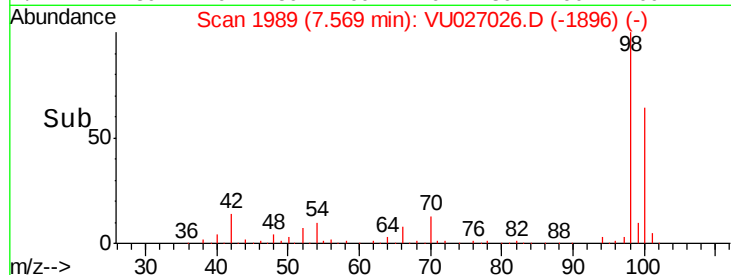
100000

50000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.419 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU027026.D

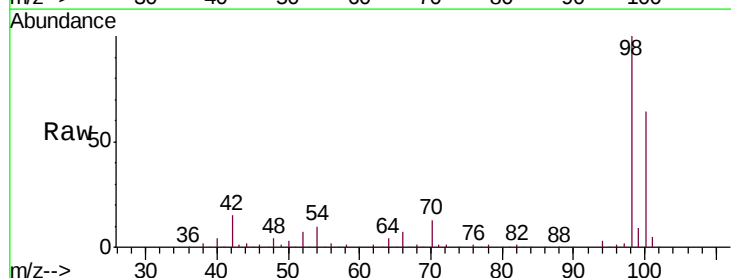
Acq: 22 Sep 2018 19:17

Tgt Ion: 43 Resp: 1164

Ion Ratio Lower Upper

43 100

58 187.7 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU026969.D (-1939) (-)

1500

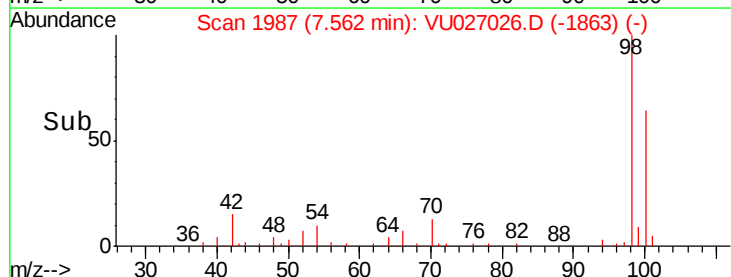
1000

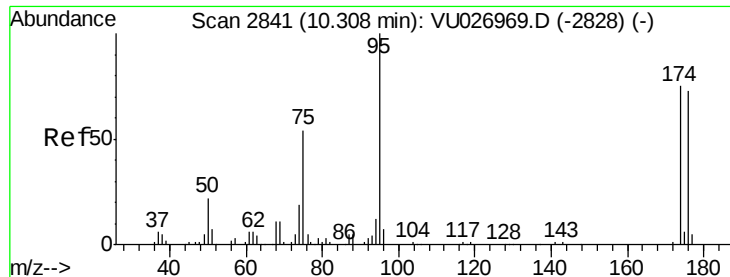
500

0

7.55 7.56 7.57 7.58 7.59 7.60

Time-->





#62

4-Bromofluorobenzene

Concen: 45.118 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ145D-20180912

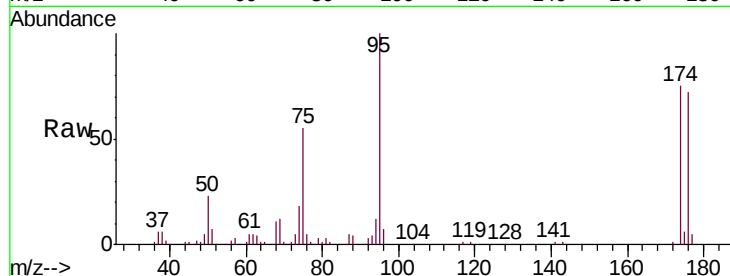
Tgt Ion: 95 Resp: 80136

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.2

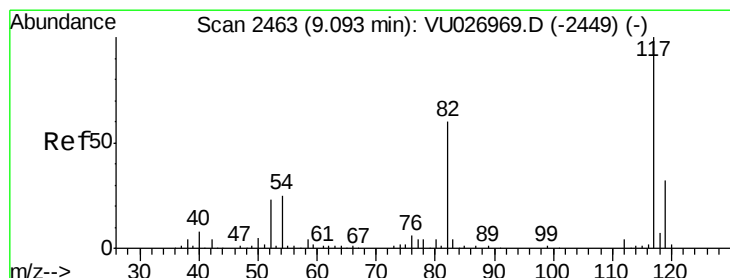
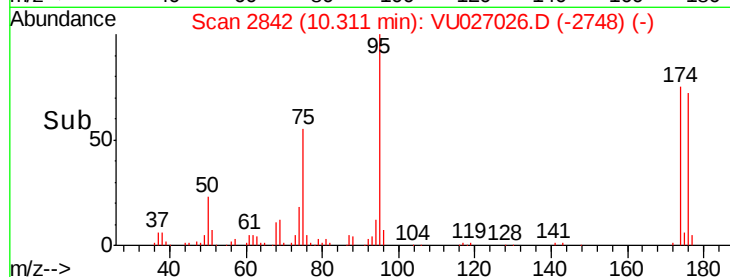
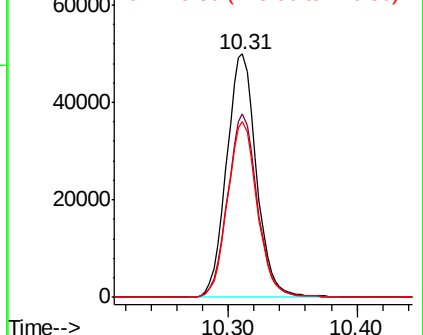
176 72.1 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

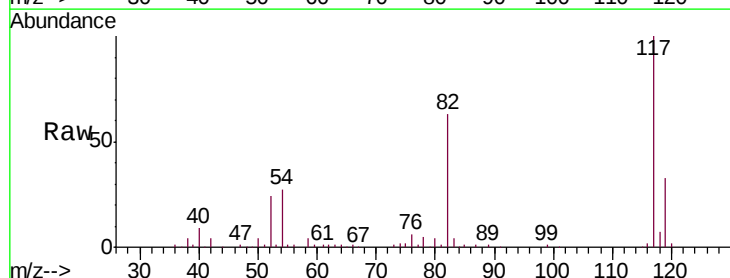
Tgt Ion: 117 Resp: 150741

Ion Ratio Lower Upper

117 100

82 62.8 48.0 72.0

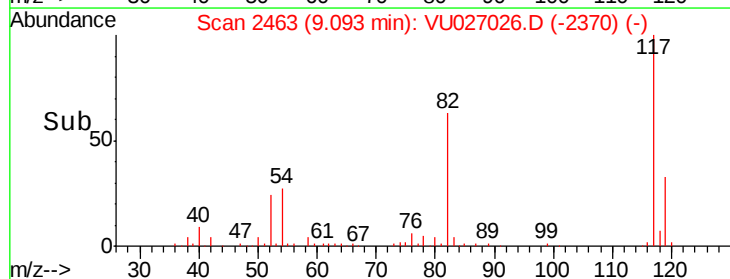
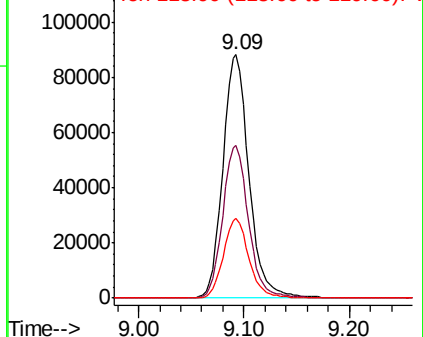
119 33.0 25.8 38.8

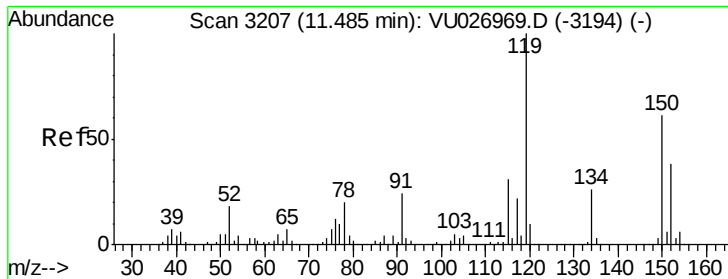


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027026.D

Acq: 22 Sep 2018 19:17

Instrument :

MSVOA\_U

ClientSampleId :

SA-PZ145D-20180912

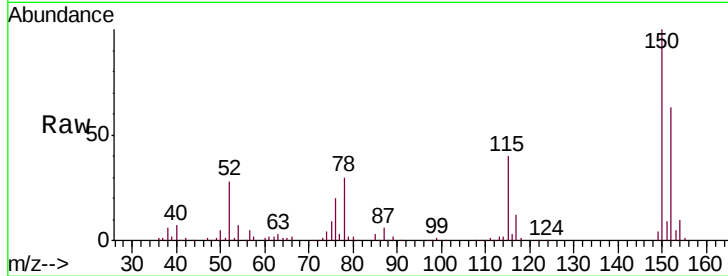
Tgt Ion:152 Resp: 69920

Ion Ratio Lower Upper

152 100

115 62.5 44.9 134.5

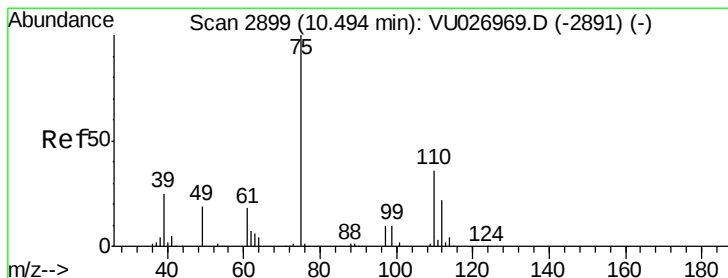
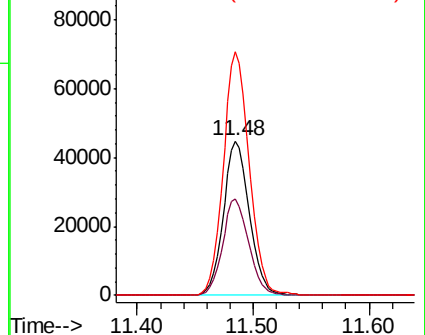
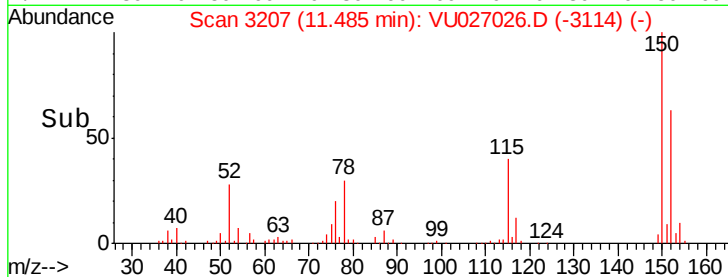
150 157.1 0.0 355.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.581 ug/l

RT: 10.31 min Scan# 2842

Delta R.T. -0.18 min

Lab File: VU027026.D

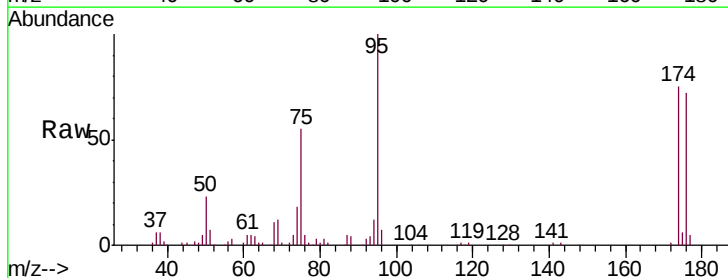
Acq: 22 Sep 2018 19:17

Tgt Ion: 75 Resp: 43718

Ion Ratio Lower Upper

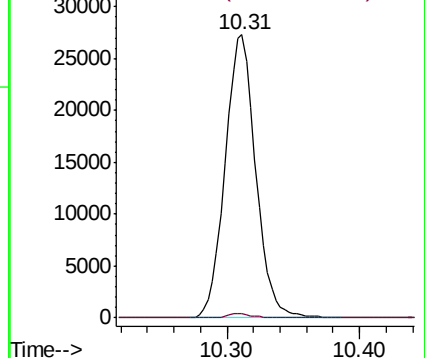
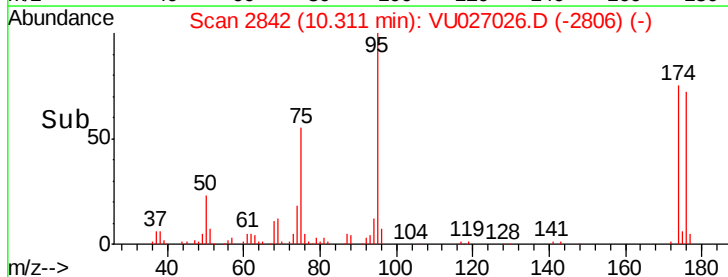
75 100

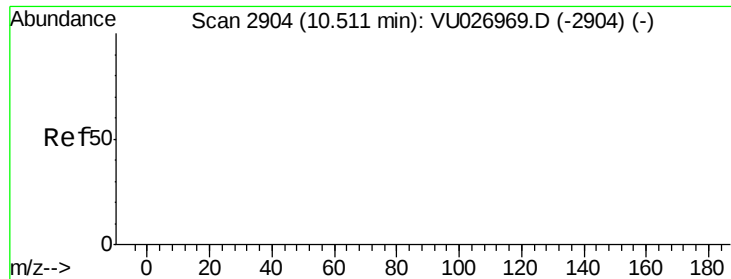
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.864 ug/l  
 RT: 10.31 min Scan# 2842  
 Delta R.T. -0.20 min  
 Lab File: VU027026.D  
 Acq: 22 Sep 2018 19:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SA-PZ145D-20180912

Tgt Ion: 75 Resp: 43718  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 0.0 0.0  
 89 0.0 0.0 0.0

