

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121118\  
 Data File : VU028566.D  
 Acq On : 10 Dec 2018 21:13  
 Operator : MD/SY  
 Sample : J6325-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE-131D3-20181205

Quant Time: Dec 11 03:40:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 Response via : Initial Calibration

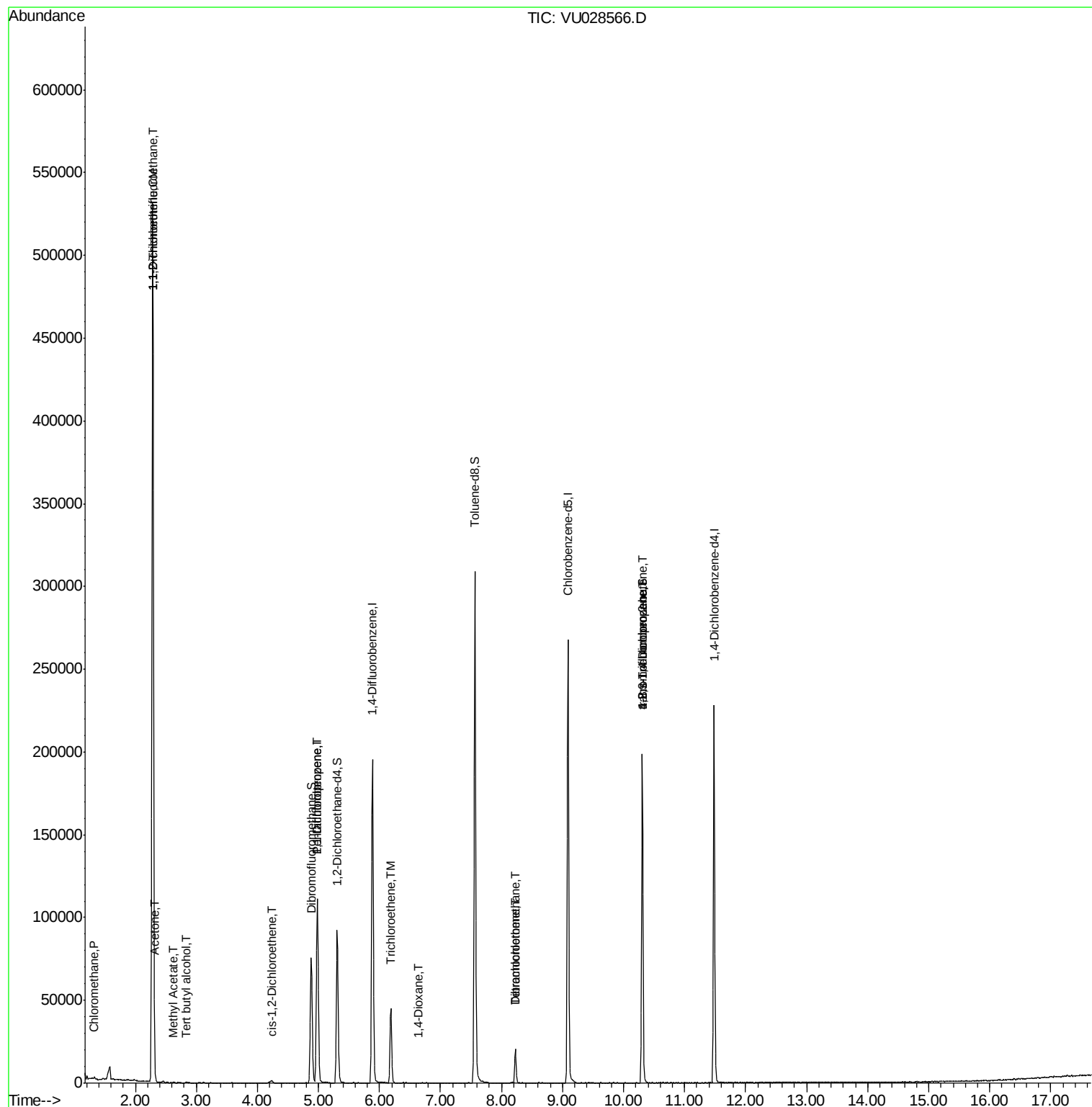
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 4.98  | 168  | 83548    | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 5.89  | 114  | 154646   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 9.09  | 117  | 139683   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 11.48 | 152  | 54716    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 5.31  | 65   | 70900    | 55.61     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 111.22% |          |
| 35) Dibromofluoromethane       | 4.88  | 113  | 51672    | 53.10     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.20% |          |
| 50) Toluene-d8                 | 7.56  | 98   | 201093   | 52.23     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.46% |          |
| 62) 4-Bromofluorobenzene       | 10.30 | 95   | 66050    | 45.90     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 91.80%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 1.33  | 50   | 1134     | 0.551     | ug/l    | 97       |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.29  | 101  | 207255   | 221.686   | ug/l    | 98       |
| 11) Tert butyl alcohol         | 2.84  | 59   | 179      | 0.630     | ug/l #  | 73       |
| 12) 1,1-Dichloroethene         | 2.28  | 96   | 1454     | 1.563     | ug/l    | 93       |
| 16) Acetone                    | 2.32  | 43   | 940      | 1.130     | ug/l #  | 76       |
| 18) Methyl Acetate             | 2.62  | 43   | 542      | 0.251     | ug/l #  | 56       |
| 27) cis-1,2-Dichloroethene     | 4.23  | 96   | 635      | 0.536     | ug/l    | 90       |
| 31) Cyclohexane                | 4.98  | 56   | 2011     | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 7350     | 4.343     | ug/l #  | 50       |
| 44) Trichloroethene            | 6.19  | 130  | 14635    | 13.206    | ug/l    | 97       |
| 49) 1,4-Dioxane                | 6.63  | 88   | 42       | 1.546     | ug/l #  | 19       |
| 60) Dibromochloromethane       | 8.23  | 129  | 4473     | 3.940     | ug/l #  | 10       |
| 64) Tetrachloroethene          | 8.23  | 164  | 4292     | 4.607     | ug/l    | 97       |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 35560    | 25.451    | ug/l #  | 36       |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 35560    | 62.444    | ug/l #  | 100      |

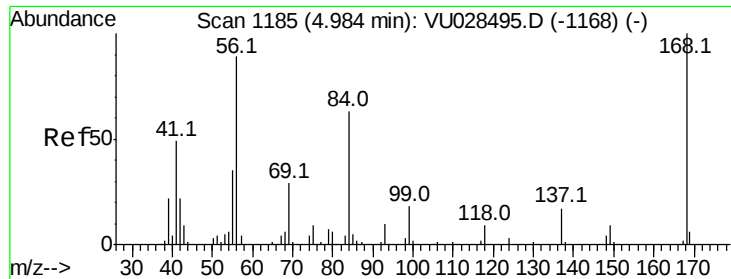
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121118\  
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Instrument :  
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RE-131D3-20181205

Quant Time: Dec 11 03:40:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 07 00:39:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

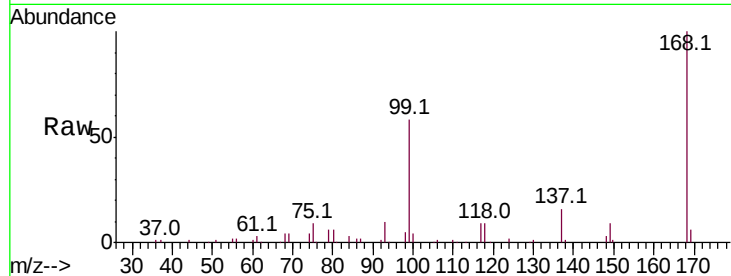
RE-131D3-20181205

Tot Ion:168 Resp: 83548

Ion Ratio Lower Upper

168 100

99 58.5 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

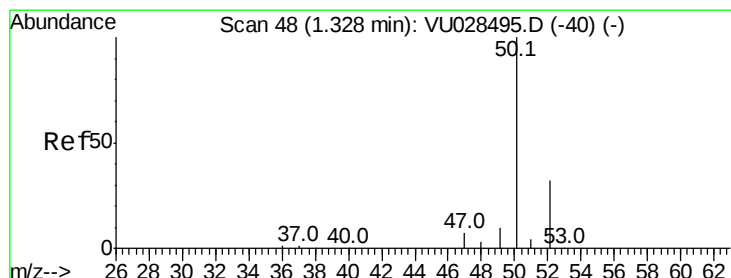
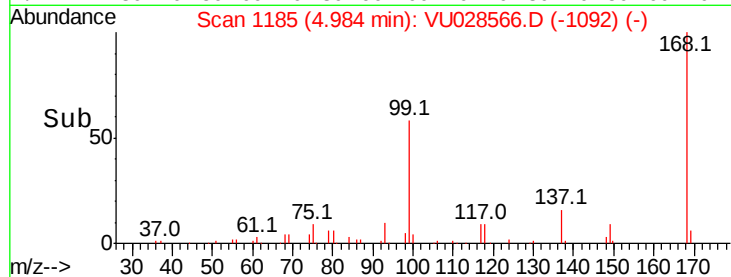
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.551 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028566.D

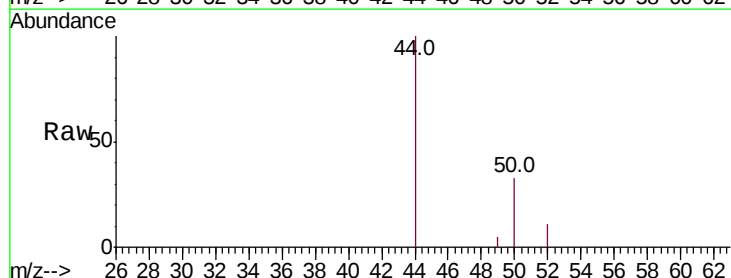
Acq: 10 Dec 2018 21:13

Tgt Ion: 50 Resp: 1134

Ion Ratio Lower Upper

50 100

52 33.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

1000

800

600

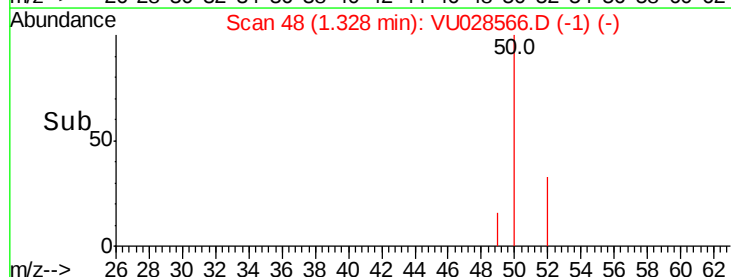
400

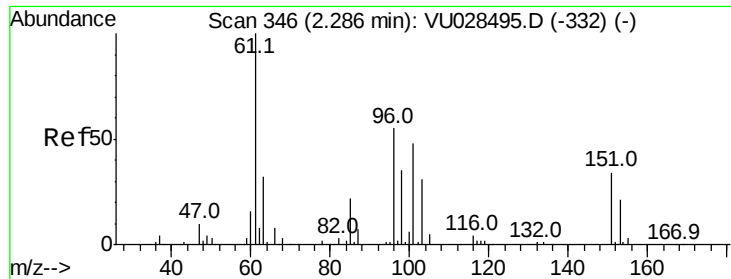
200

0

1.30 1.35

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 221.686 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

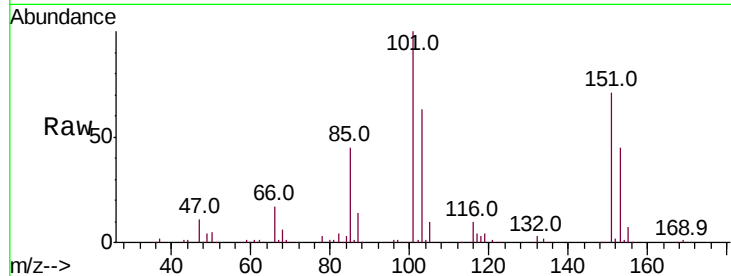
Tot Ion:101 Resp: 207255

Ion Ratio Lower Upper

101 100

85 45.8 36.4 54.6

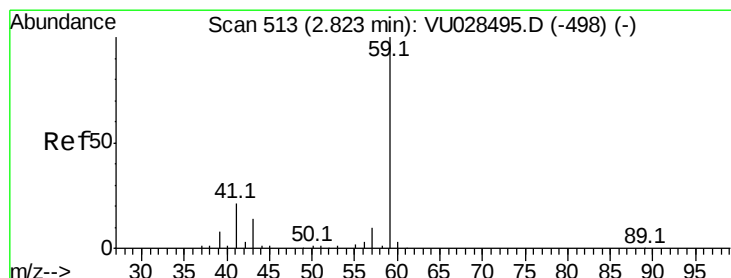
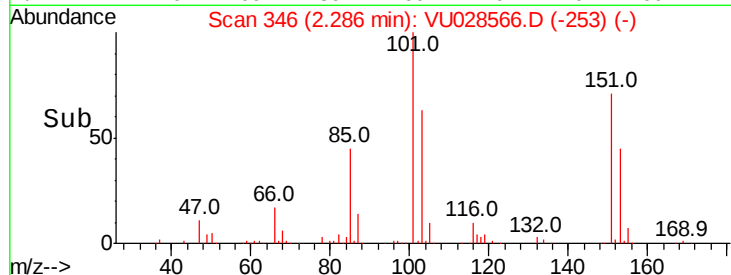
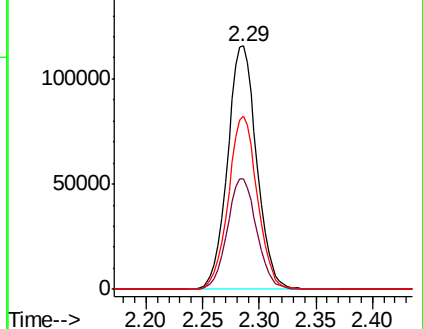
151 70.7 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.630 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.02 min

Lab File: VU028566.D

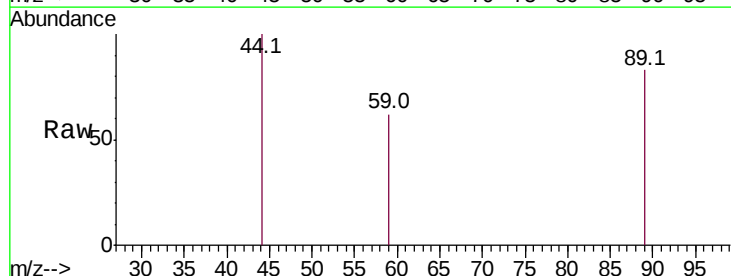
Acq: 10 Dec 2018 21:13

Tgt Ion: 59 Resp: 179

Ion Ratio Lower Upper

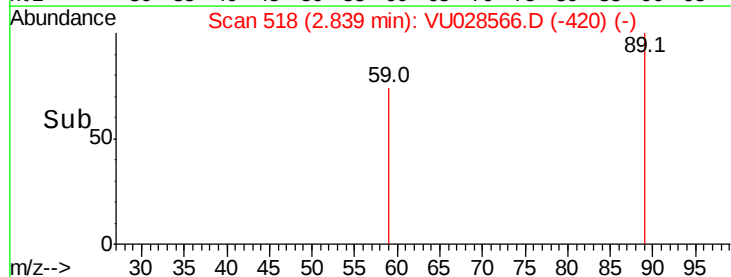
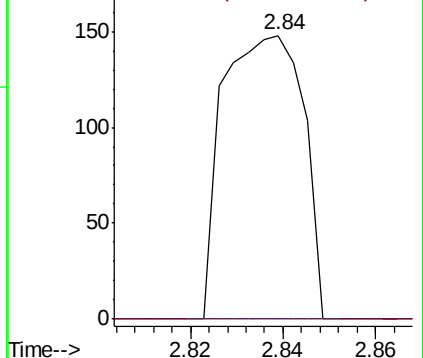
59 100

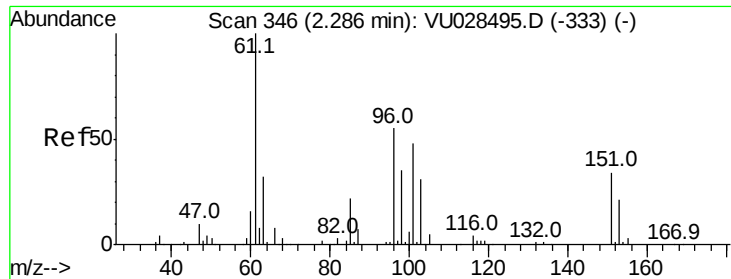
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 1.563 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

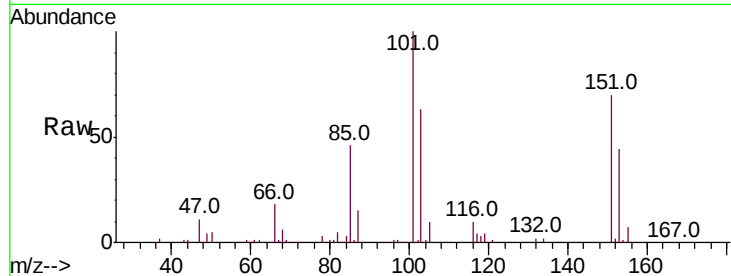
Tot Ion: 96 Resp: 1454

Ion Ratio Lower Upper

96 100

61 175.6 146.4 219.6

98 56.0 51.8 77.8

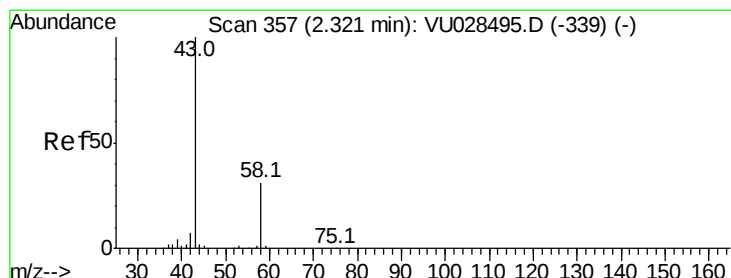
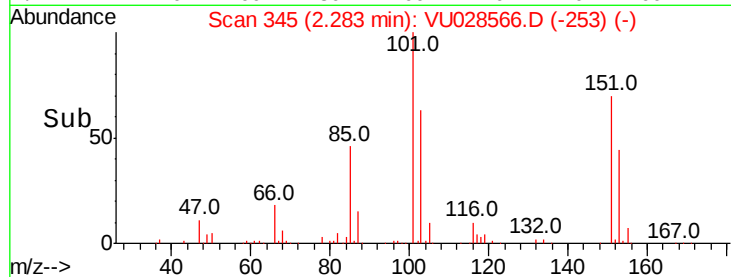
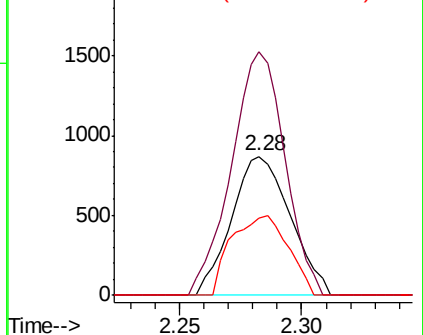


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#16

Acetone

Concen: 1.130 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028566.D

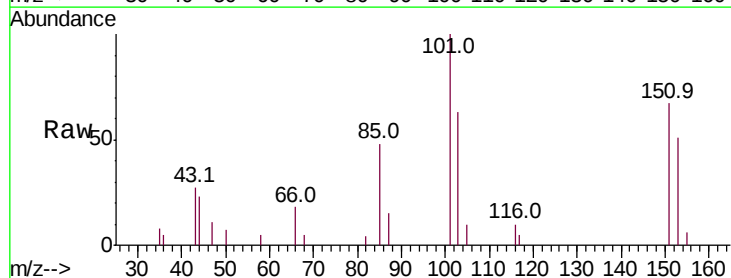
Acq: 10 Dec 2018 21:13

Tgt Ion: 43 Resp: 940

Ion Ratio Lower Upper

43 100

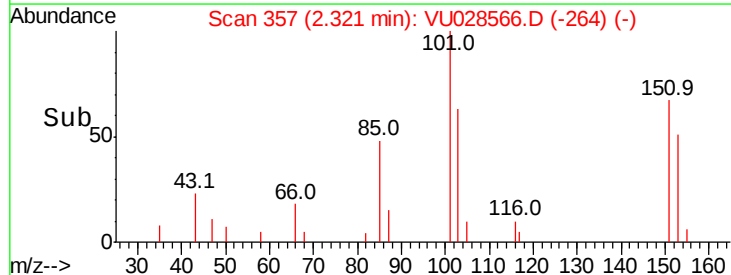
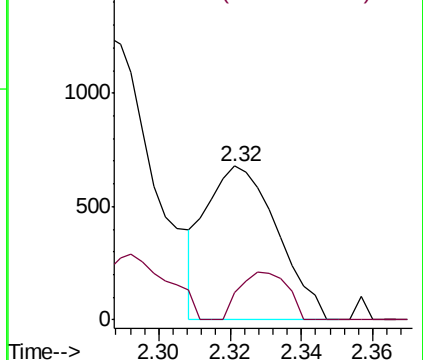
58 17.6 24.6 37.0#

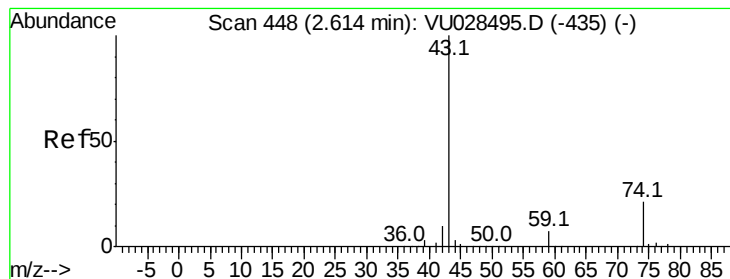


Abundance

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#18

Methyl Acetate

Concen: 0.251 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

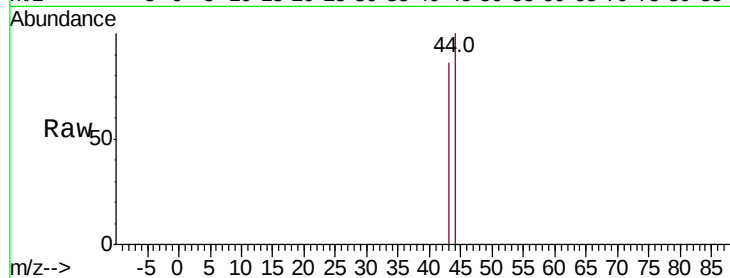
RE-131D3-20181205

Tot Ion: 43 Resp: 542

Ion Ratio Lower Upper

43 100

74 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

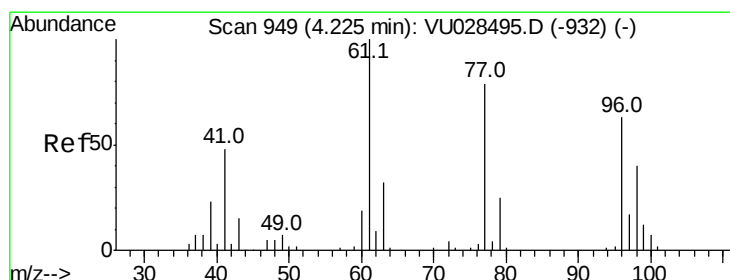
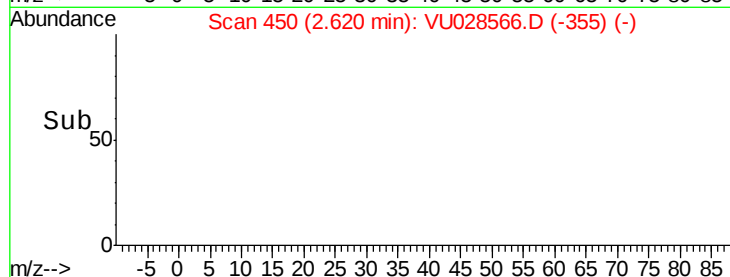
300

200

100

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.536 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

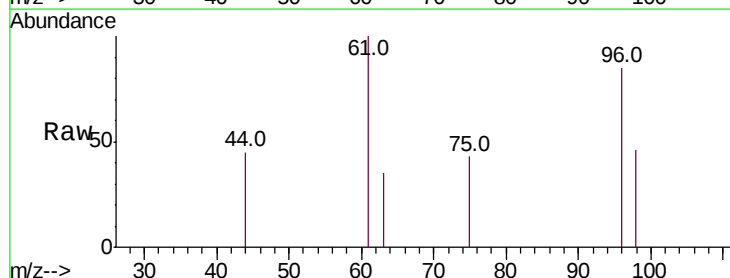
Tgt Ion: 96 Resp: 635

Ion Ratio Lower Upper

96 100

61 158.4 0.0 332.4

98 49.4 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

600

500

400

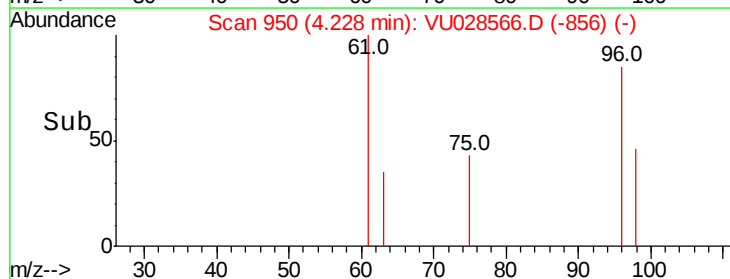
300

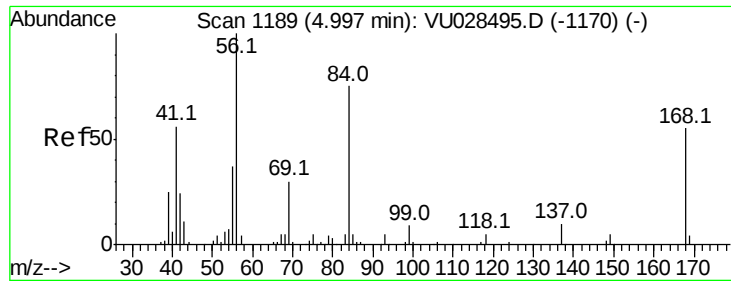
200

100

0

Time-->

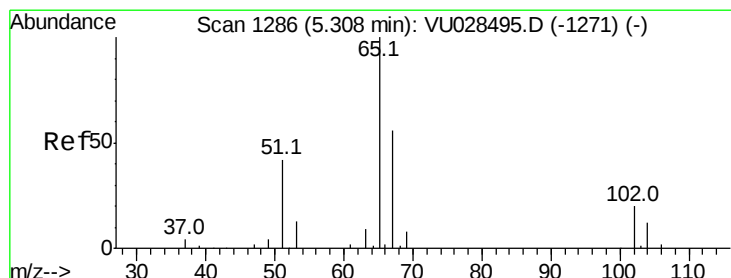
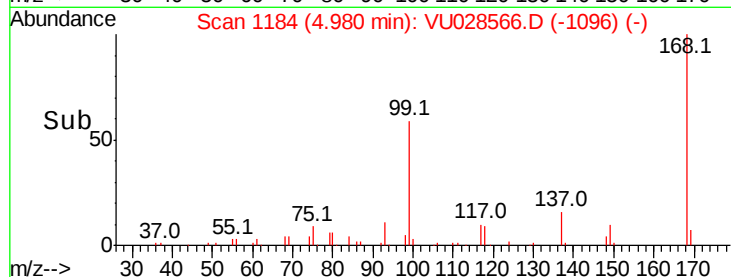
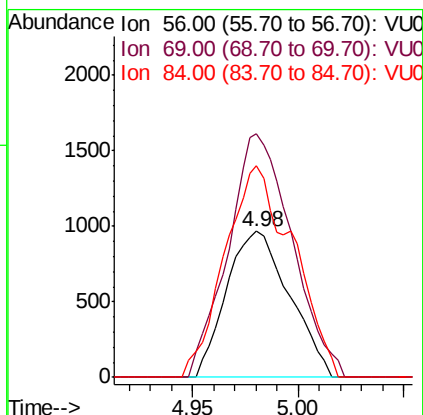
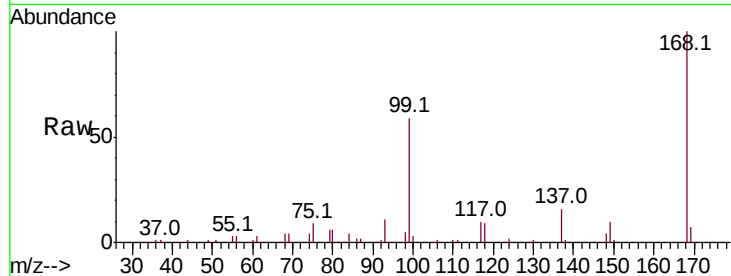




#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.98 min Scan# 1184  
Delta R.T. -0.02 min  
Lab File: VU028566.D  
Acq: 10 Dec 2018 21:13

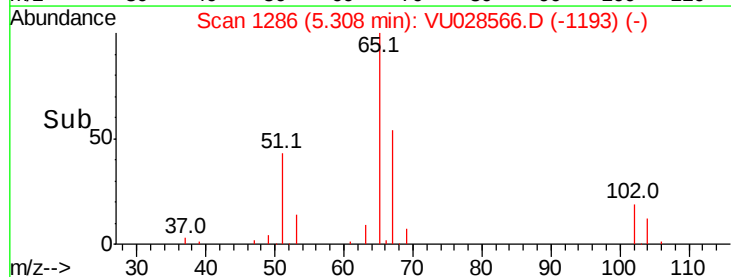
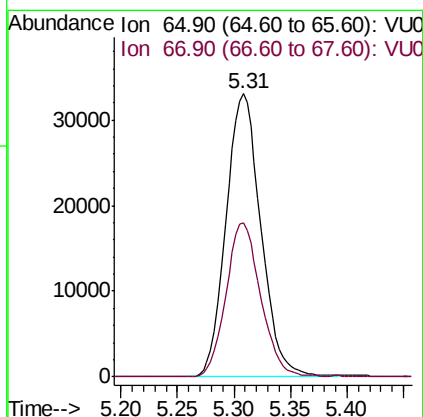
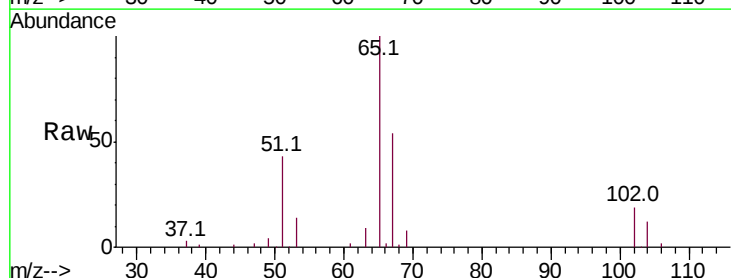
Instrument :  
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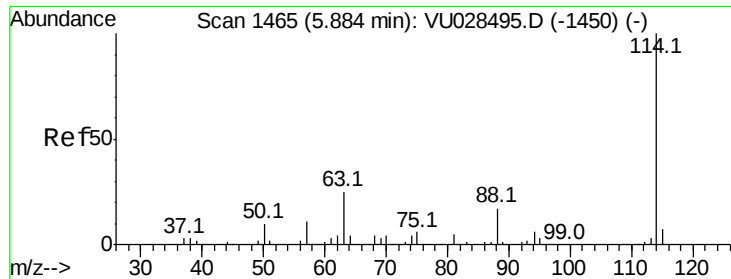
Tot Ion: 56 Resp: 2011  
Ion Ratio Lower Upper  
56 100  
69 166.5 24.0 36.0#  
84 145.1 59.7 89.5#



#33  
1,2-Dichloroethane-d4  
Concen: 55.608 ug/l  
RT: 5.31 min Scan# 1286  
Delta R.T. -0.00 min  
Lab File: VU028566.D  
Acq: 10 Dec 2018 21:13

Tgt Ion: 65 Resp: 70900  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 110.6

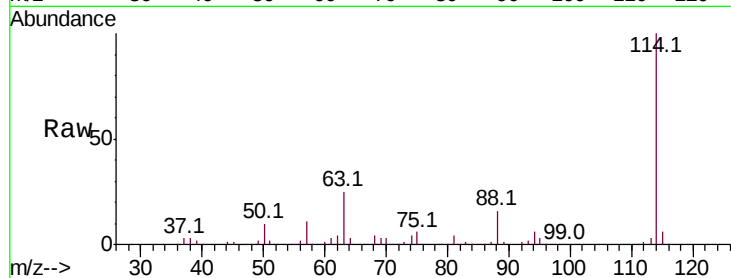




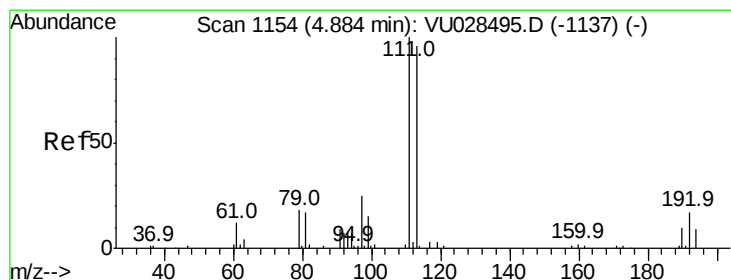
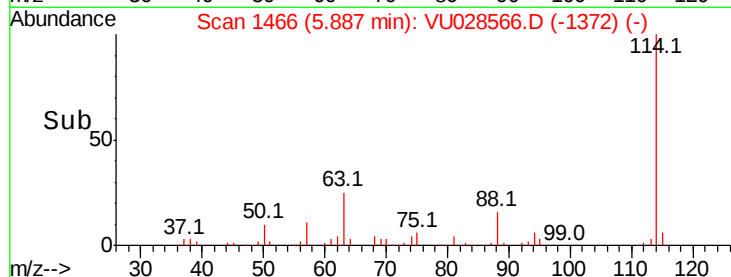
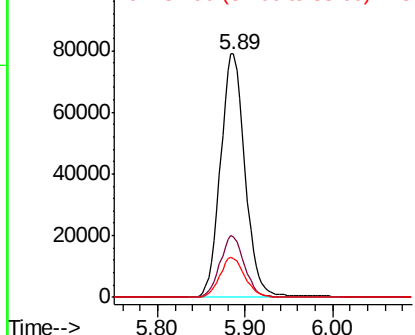
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: VU028566.D  
 Acq: 10 Dec 2018 21:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE-131D3-20181205

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.7  | 0.0   | 49.2  |
| 88      | 16.1  | 0.0   | 33.4  |

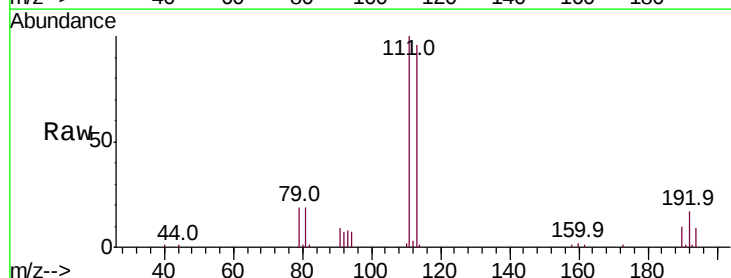


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

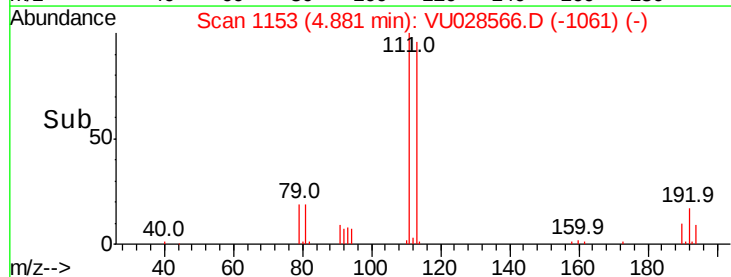
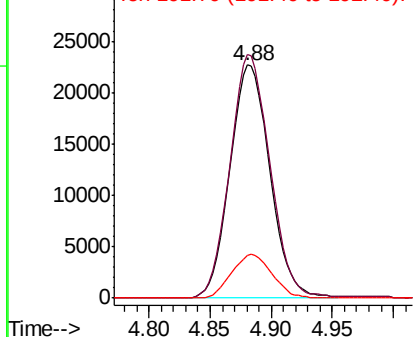


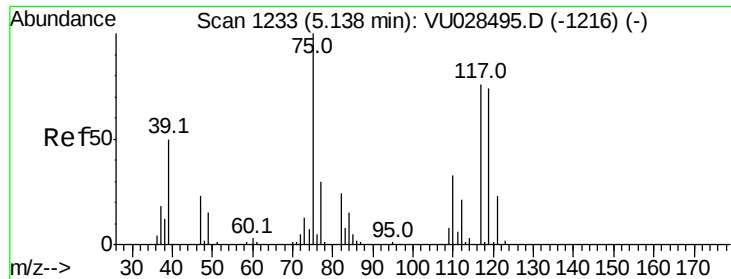
#35  
 Dibromofluoromethane  
 Concen: 53.095 ug/l  
 RT: 4.88 min Scan# 1153  
 Delta R.T. -0.00 min  
 Lab File: VU028566.D  
 Acq: 10 Dec 2018 21:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.5 | 83.4  | 125.0 |
| 192     | 18.9  | 14.8  | 22.2  |



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: 4.343 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

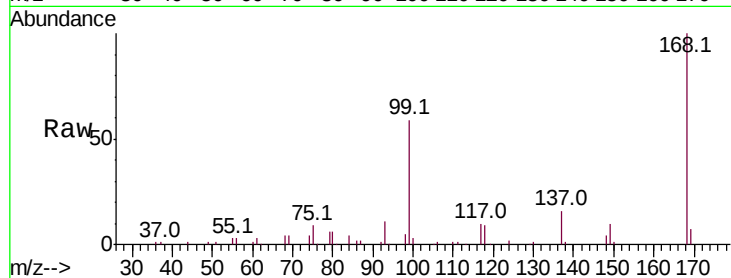
Tot Ion: 75 Resp: 7350

Ion Ratio Lower Upper

75 100

110 7.5 16.1 48.2#

77 0.0 24.5 36.7#

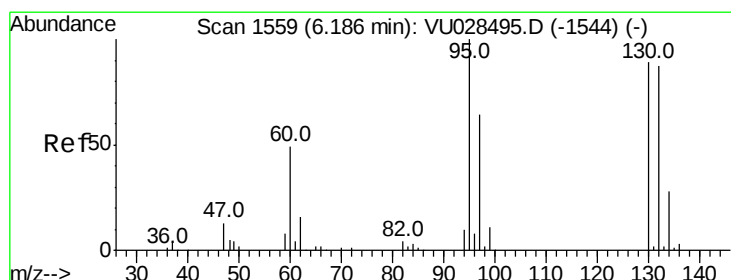
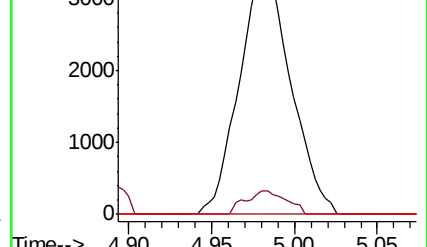
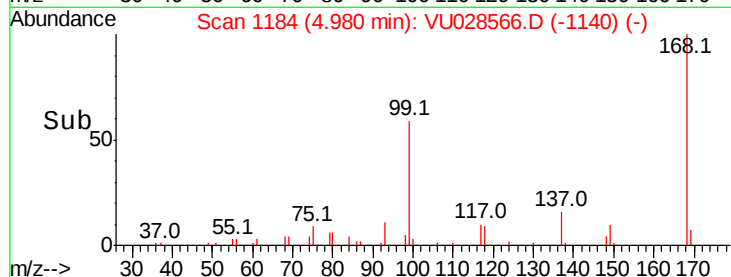


Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-1216) (-)

Ion 109.90 (109.60 to 110.60): VU028495.D (-1216) (-)

Ion 76.90 (76.60 to 77.60): VU028495.D (-1216) (-)

Time-->



#44

Trichloroethene

Concen: 13.206 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028566.D

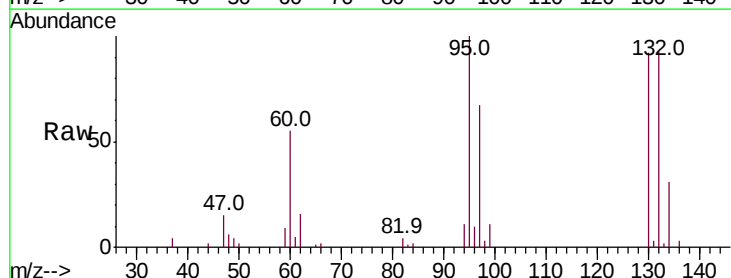
Acq: 10 Dec 2018 21:13

Tgt Ion:130 Resp: 14635

Ion Ratio Lower Upper

130 100

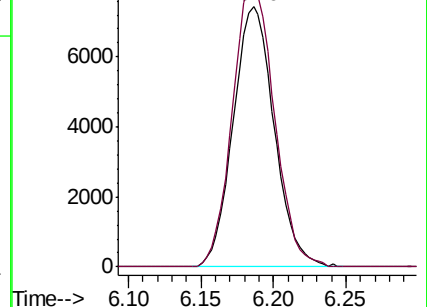
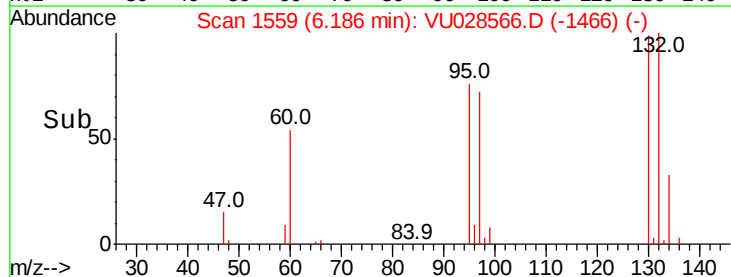
95 108.5 0.0 224.0

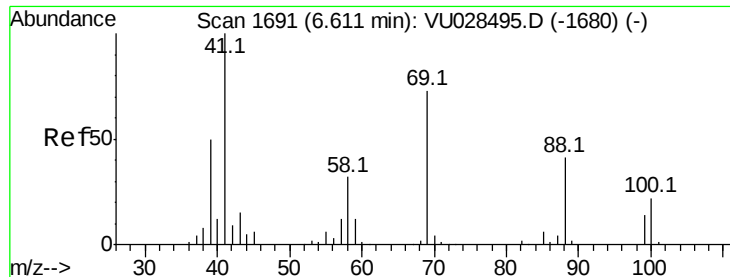


Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)

Time-->





#49

1,4-Dioxane

Concen: 1.546 ug/l

RT: 6.63 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

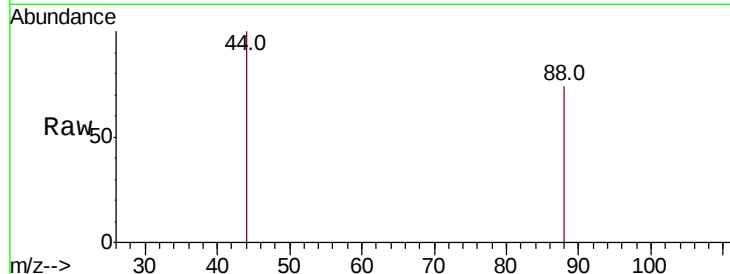
Tot Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

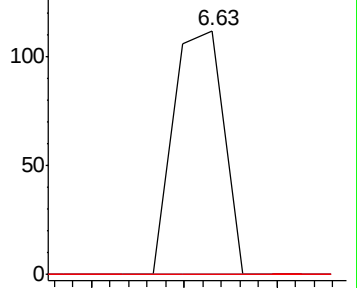
58 0.0 62.4 93.6#



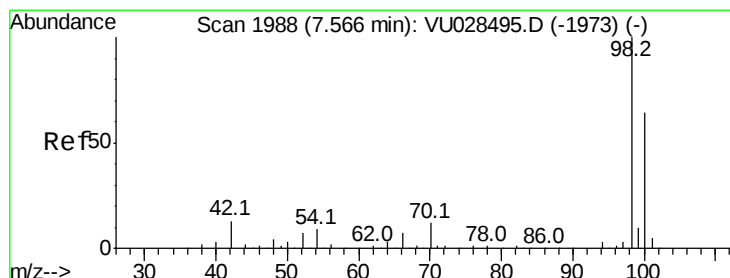
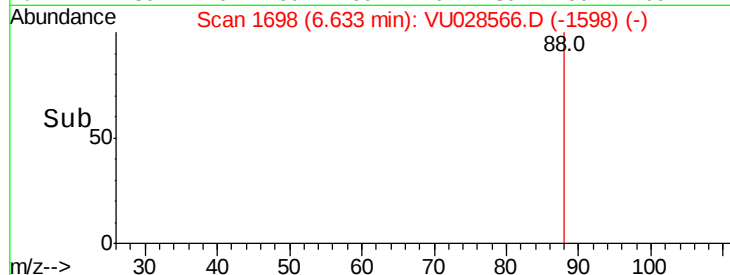
Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#50

Toluene-d8

Concen: 52.235 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028566.D

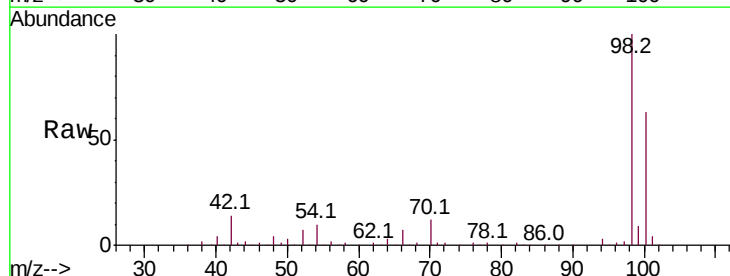
Acq: 10 Dec 2018 21:13

Tgt Ion: 98 Resp: 201093

Ion Ratio Lower Upper

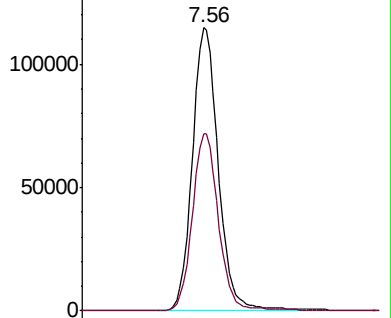
98 100

100 62.8 51.0 76.6

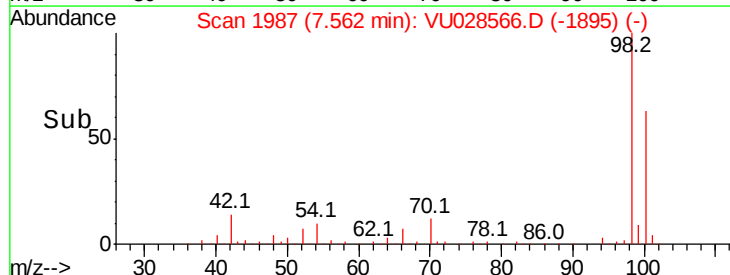


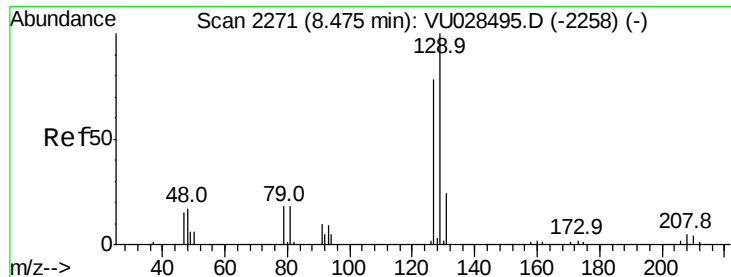
Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



Time-->





#60

Dibromochloromethane

Concen: 3.940 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

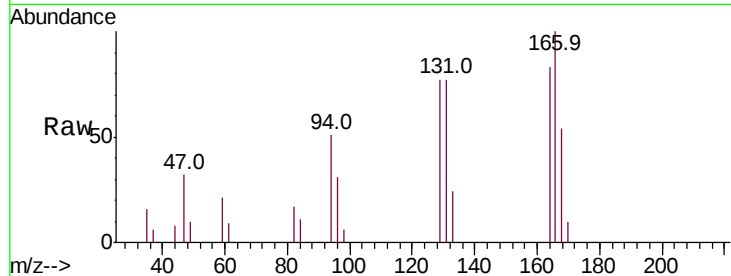
RE-131D3-20181205

Tot Ion:129 Resp: 4473

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

2500

2000

1500

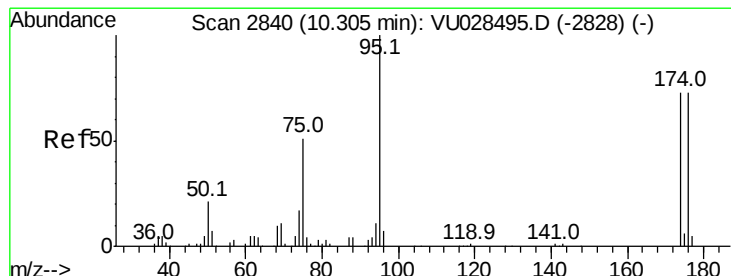
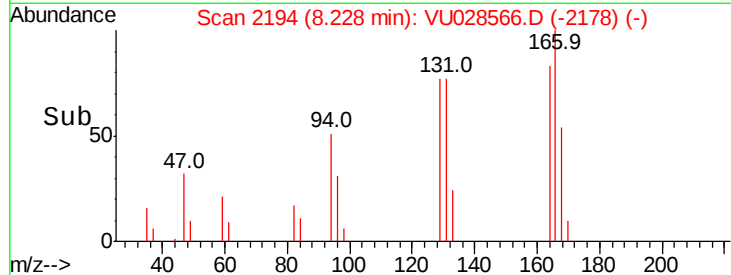
1000

500

0

8.20 8.23 8.25

Time-->



#62

4-Bromofluorobenzene

Concen: 45.903 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

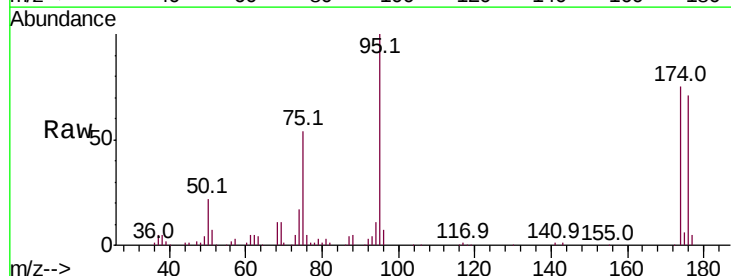
Tgt Ion: 95 Resp: 66050

Ion Ratio Lower Upper

95 100

174 75.9 0.0 150.4

176 71.9 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

50000

40000

30000

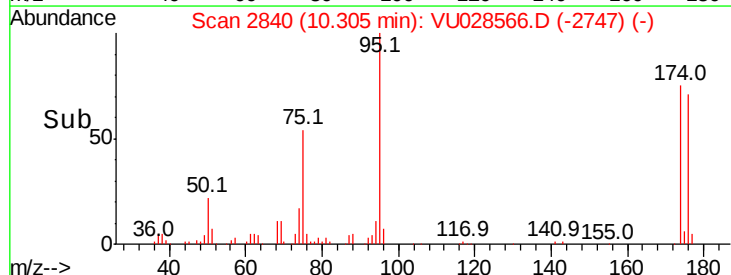
20000

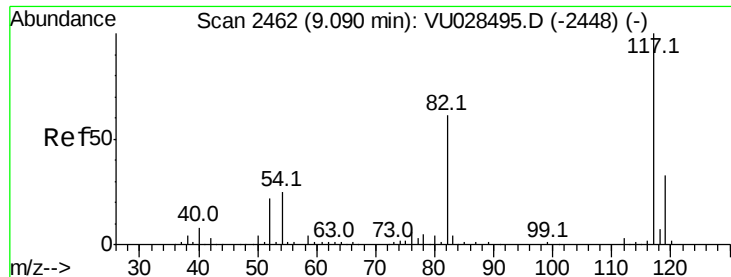
10000

0

10.30 10.40

Time-->

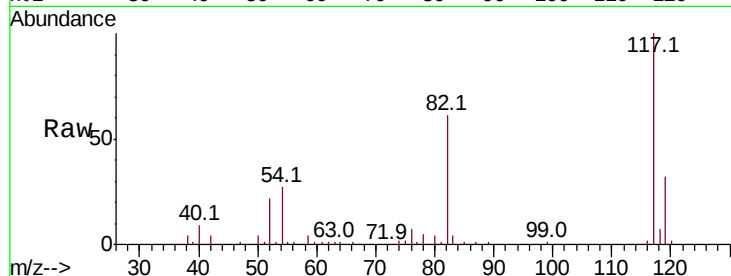




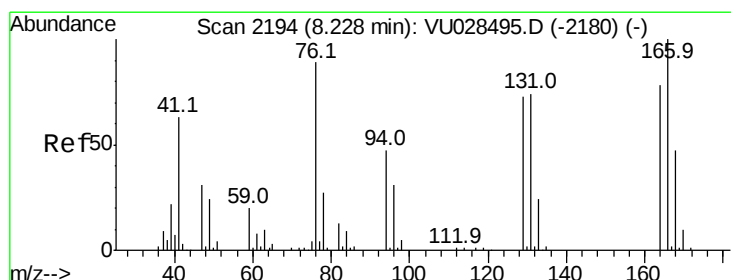
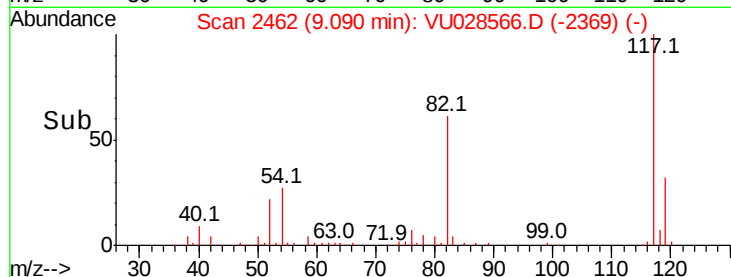
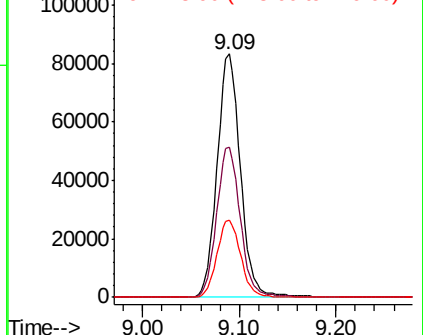
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2462  
Delta R.T. -0.00 min  
Lab File: VU028566.D  
Acq: 10 Dec 2018 21:13

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE-131D3-20181205

Tot Ion:117 Resp: 139683  
Ion Ratio Lower Upper  
117 100  
82 61.5 48.9 73.3  
119 31.6 26.2 39.4

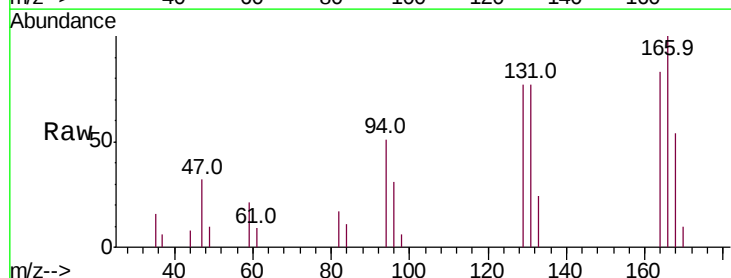


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VU  
Ion 118.90 (118.60 to 119.60): V

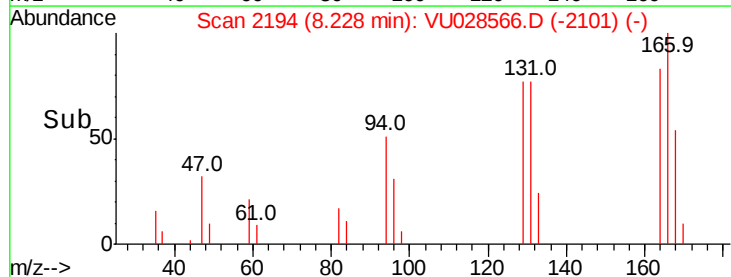
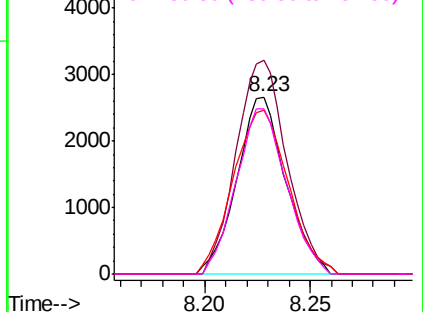


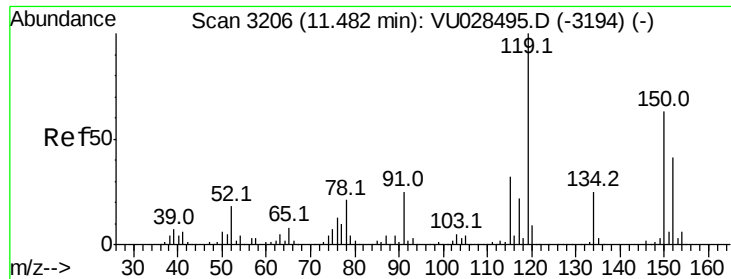
#64  
Tetrachloroethene  
Concen: 4.607 ug/l  
RT: 8.23 min Scan# 2194  
Delta R.T. -0.00 min  
Lab File: VU028566.D  
Acq: 10 Dec 2018 21:13

Tgt Ion:164 Resp: 4292  
Ion Ratio Lower Upper  
164 100  
166 120.6 101.9 152.9  
129 92.7 74.9 112.3  
131 93.2 75.4 113.0



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

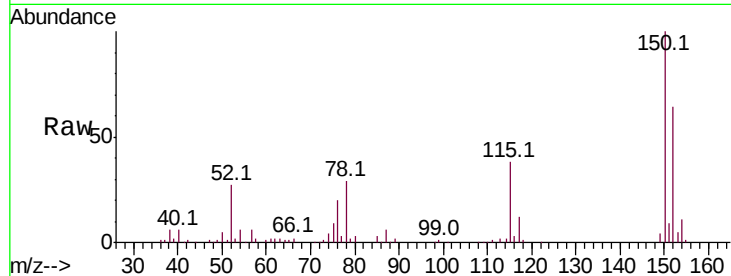
Tot Ion:152 Resp: 54716

Ion Ratio Lower Upper

152 100

115 60.2 42.7 128.1

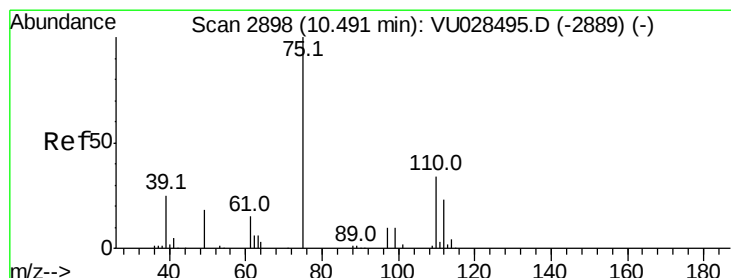
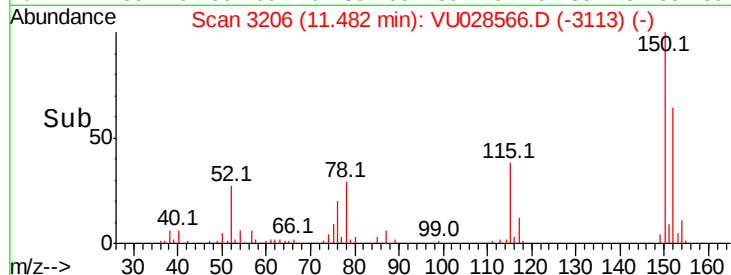
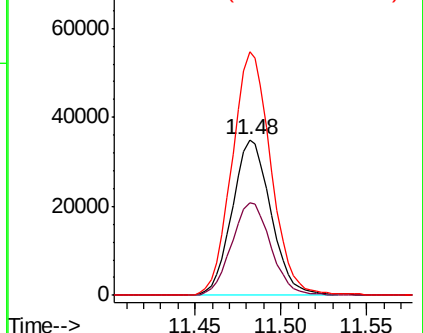
150 158.0 0.0 346.0



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: 25.451 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.18 min

Lab File: VU028566.D

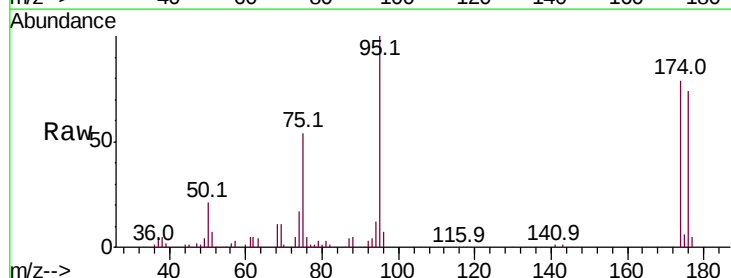
Acq: 10 Dec 2018 21:13

Tgt Ion: 75 Resp: 35560

Ion Ratio Lower Upper

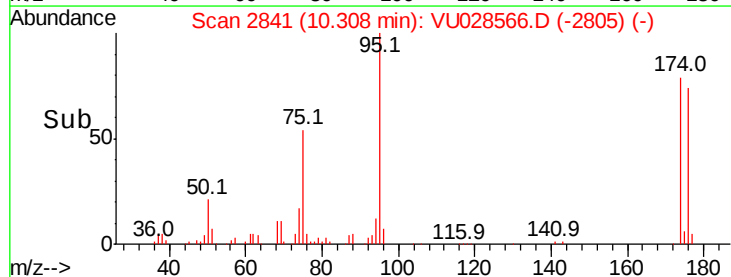
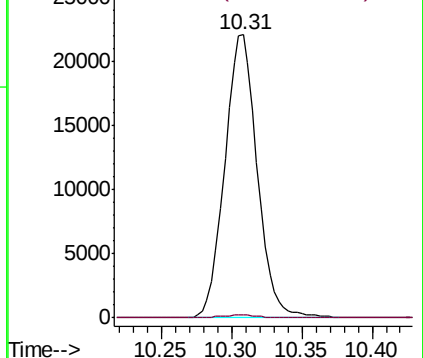
75 100

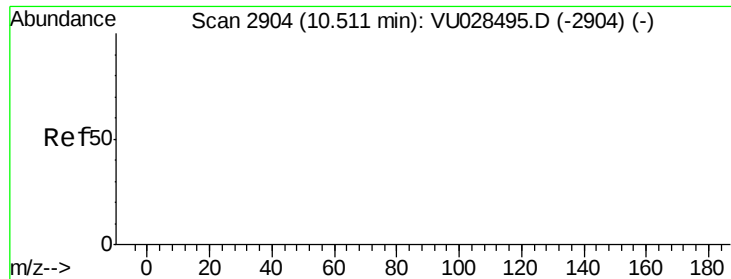
77 1.1 20.8 62.4#



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: 62.444 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028566.D

Acq: 10 Dec 2018 21:13

Instrument :

MSVOA\_U

ClientSampleId :

RE-131D3-20181205

Tot Ion: 75 Resp: 35560

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

