

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122920\  
 Data File : VU041829.D  
 Acq On : 29 Dec 2020 10:49  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB31

Quant Time: Dec 30 01:44:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Dec 28 14:55:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 162001   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 158529   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 83720    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 58807    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 58260    | 5.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 118.80% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 123419   | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 105.80% |
| 20) 2-Butanone-d5              | 4.66   | 46    | 166881   | 45.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 91.74%  |
| 24) Chloroform-d               | 5.08   | 84    | 112061   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.20% |
| 26) 1,2-Dichloroethane-d4      | 5.71   | 65    | 60612    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.40%  |
| 32) Benzene-d6                 | 5.74   | 84    | 219890   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 68172    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.80%  |
| 41) Toluene-d8                 | 7.90   | 98    | 207680   | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.40% |
| 43) trans-1,3-Dichloropropene- | 8.18   | 79    | 28879    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 154503   | 44.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.32%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 62613    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 77969    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 70826  | 5.161  | ug/L 100 |
| 3) Chloromethane               | 1.52 | 50  | 66300  | 4.972  | ug/L 100 |
| 5) Vinyl chloride              | 1.61 | 62  | 77479  | 5.262  | ug/L 98  |
| 6) Bromomethane                | 1.86 | 94  | 55251  | 6.002  | ug/L 99  |
| 8) Chloroethane                | 1.94 | 64  | 49771  | 4.977  | ug/L 100 |
| 9) Trichlorofluoromethane      | 2.14 | 101 | 110974 | 5.955  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 64423  | 5.781  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 61773  | 5.621  | ug/L 95  |
| 13) Acetone                    | 2.67 | 43  | 104930 | 45.344 | ug/L 98  |
| 14) Carbon disulfide           | 2.80 | 76  | 201733 | 5.312  | ug/L 100 |
| 15) Methyl Acetate             | 2.97 | 43  | 25235  | 4.195  | ug/L 93  |
| 16) Methylene chloride         | 3.06 | 84  | 67756  | 5.162  | ug/L 93  |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 139584 | 4.760  | ug/L 97  |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 58947  | 5.186  | ug/L 89  |
| 19) 1,1-Dichloroethane         | 3.88 | 63  | 95035  | 4.473  | ug/L 99  |
| 21) 2-Butanone                 | 4.74 | 43  | 150705 | 39.982 | ug/L 93  |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 59221  | 4.714  | ug/L 92  |

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 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

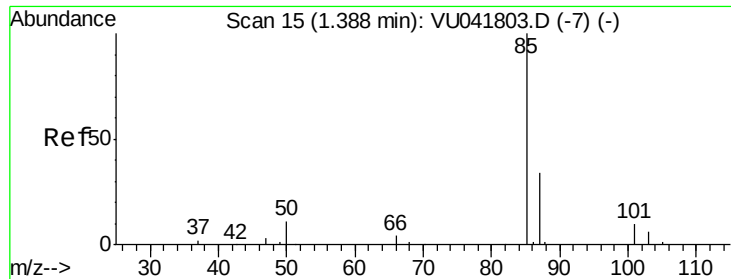
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB31

Quant Time: Dec 30 01:44:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Dec 28 14:55:38 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.99  | 128  | 30262    | 5.244  | ug/L   | 86       |
| 25) Chloroform                  | 5.10  | 83   | 104006   | 4.861  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.81  | 62   | 66048    | 4.559  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane       | 5.33  | 97   | 87827    | 4.824  | ug/L   | 97       |
| 30) Cyclohexane                 | 5.40  | 56   | 83069    | 4.071  | ug/L   | 91       |
| 31) Carbon tetrachloride        | 5.53  | 117  | 80570    | 5.118  | ug/L   | 99       |
| 33) Benzene                     | 5.78  | 78   | 227819   | 4.493  | ug/L   | 100      |
| 34) Trichloroethene             | 6.55  | 95   | 59687    | 4.685  | ug/L   | 94       |
| 35) Methylcyclohexane           | 6.77  | 83   | 91522    | 4.444  | ug/L   | 97       |
| 37) 1,2-Dichloropropane         | 6.80  | 63   | 55651    | 4.291  | ug/L   | 98       |
| 38) Bromodichloromethane        | 7.11  | 83   | 75076    | 4.653  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.61  | 75   | 86723    | 4.513  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone        | 7.80  | 43   | 353925   | 38.354 | ug/L # | 95       |
| 42) Toluene                     | 7.97  | 91   | 246912   | 4.717  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene   | 8.21  | 75   | 79804    | 4.644  | ug/L   | 94       |
| 45) 1,1,2-Trichloroethane       | 8.40  | 97   | 46607    | 4.860  | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.56  | 164  | 48218    | 5.406  | ug/L   | 95       |
| 48) 2-Hexanone                  | 8.69  | 43   | 269339   | 40.106 | ug/L # | 97       |
| 49) Dibromochloromethane        | 8.81  | 129  | 55771    | 5.063  | ug/L   | 100      |
| 50) 1,2-Dibromoethane           | 8.92  | 107  | 45808    | 4.829  | ug/L   | 100      |
| 51) Chlorobenzene               | 9.45  | 112  | 162070   | 4.981  | ug/L   | 95       |
| 52) Ethylbenzene                | 9.57  | 91   | 260358   | 4.671  | ug/L   | 99       |
| 53) m,p-Xylene                  | 9.69  | 106  | 103668   | 4.987  | ug/L   | 99       |
| 54) o-Xylene                    | 10.10 | 106  | 101060   | 4.963  | ug/L   | 94       |
| 55) Styrene                     | 10.11 | 104  | 172357   | 4.900  | ug/L   | 99       |
| 56) Isopropylbenzene            | 10.48 | 105  | 264440   | 4.880  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.78 | 83   | 59640    | 4.469  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 10.82 | 75   | 42309    | 4.344  | ug/L   | 97       |
| 61) Bromoform                   | 10.29 | 173  | 34345    | 5.427  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 11.74 | 146  | 127214   | 4.968  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 11.83 | 146  | 128460   | 4.990  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 12.21 | 146  | 123778   | 4.937  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.99 | 75   | 9940     | 4.227  | ug/L # | 83       |
| 67) 1,3,5-Trichlorobenzene      | 13.21 | 180  | 93418    | 4.806  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.83 | 180  | 74283    | 4.554  | ug/L   | 98       |
| 69) Naphthalene                 | 14.07 | 128  | 126344   | 3.742  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.32 | 180  | 70303    | 4.522  | ug/L   | 97       |

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





#2

Dichlorodifluoromethane

Concen: 5.161 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

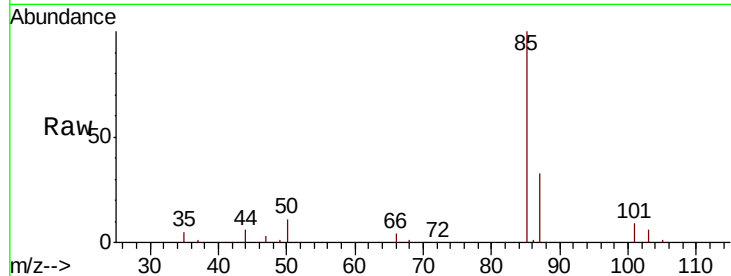
BFB31

Tot Ion: 85 Resp: 70826

Ion Ratio Lower Upper

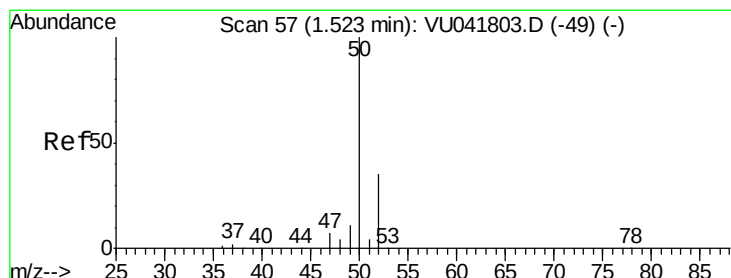
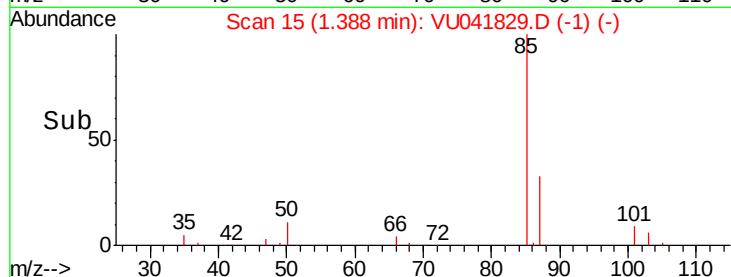
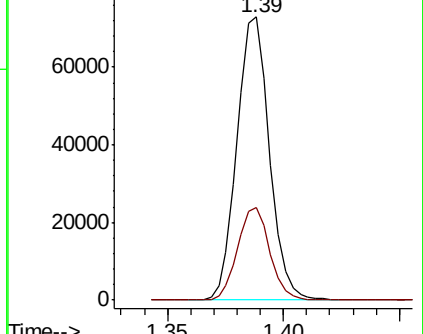
85 100

87 32.4 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU041803.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041803.D (-7) (-)



#3

Chloromethane

Concen: 4.972 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041829.D

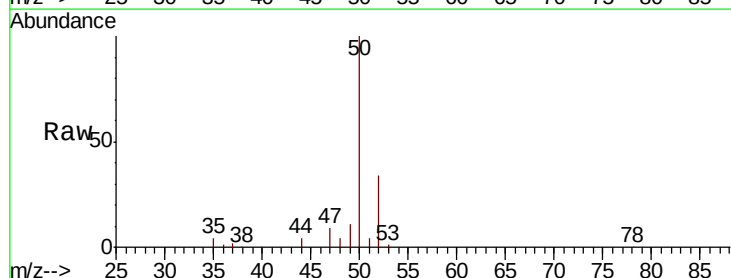
Acq: 29 Dec 2020 10:49

Tgt Ion: 50 Resp: 66300

Ion Ratio Lower Upper

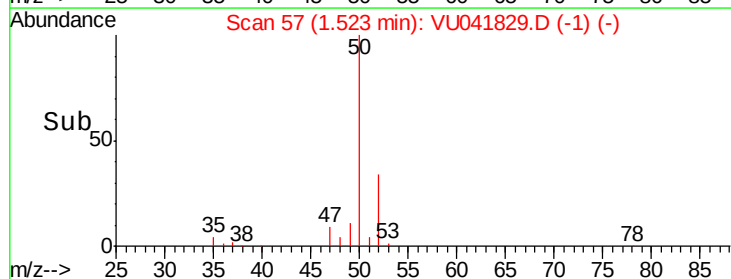
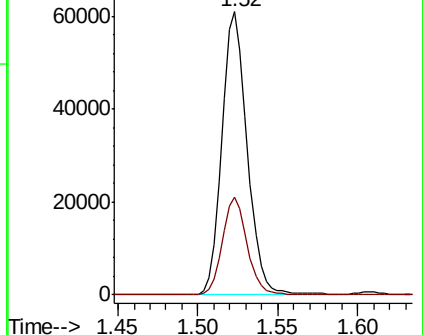
50 100

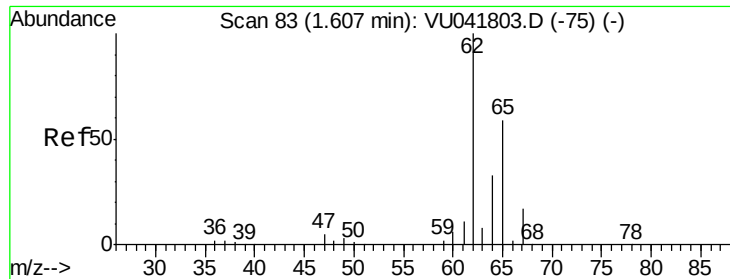
52 34.4 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041803.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU041803.D (-49) (-)





#5

Vinyl chloride

Concen: 5.262 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

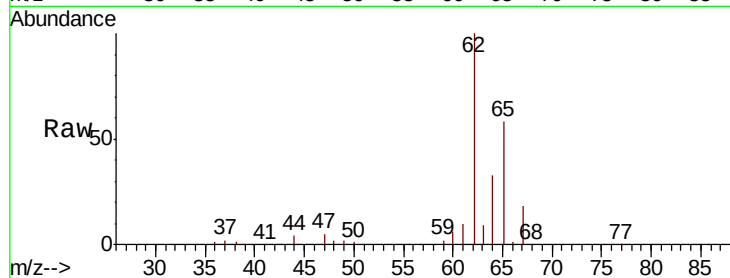
BFB31

Tot Ion: 62 Resp: 77479

Ion Ratio Lower Upper

62 100

64 33.1 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

80000

60000

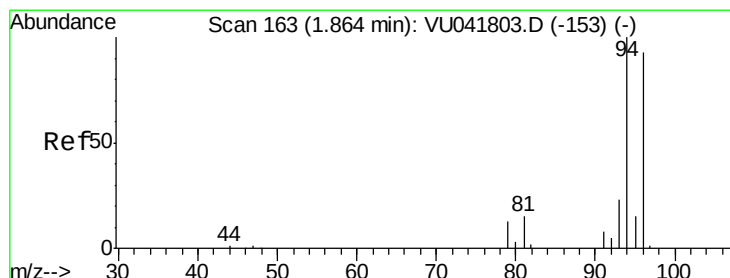
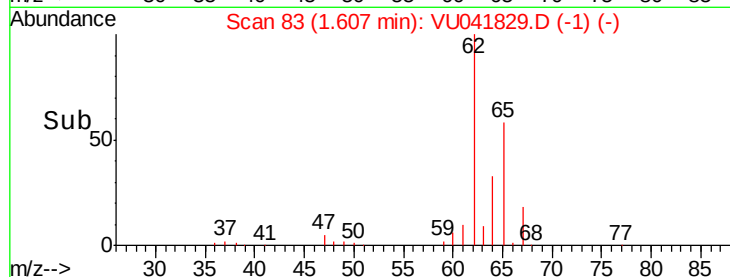
40000

20000

0

Time-->

1.55 1.60 1.65



#6

Bromomethane

Concen: 6.002 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU041829.D

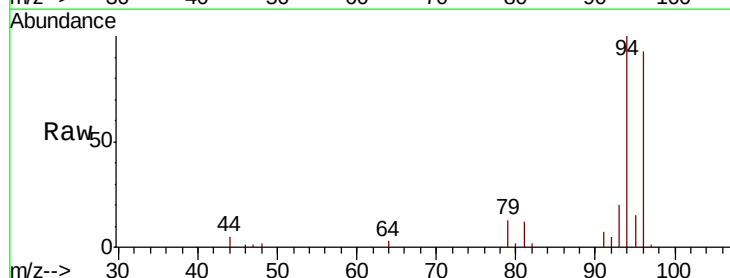
Acq: 29 Dec 2020 10:49

Tgt Ion: 94 Resp: 55251

Ion Ratio Lower Upper

94 100

96 92.9 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.86

50000

40000

30000

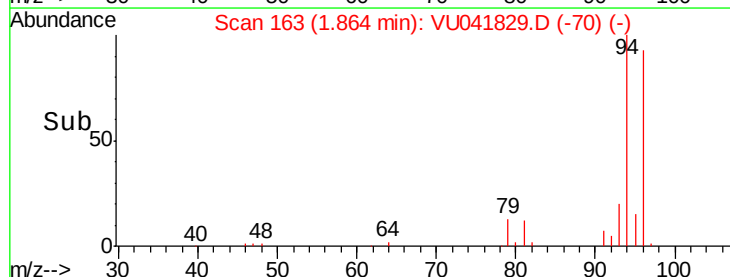
20000

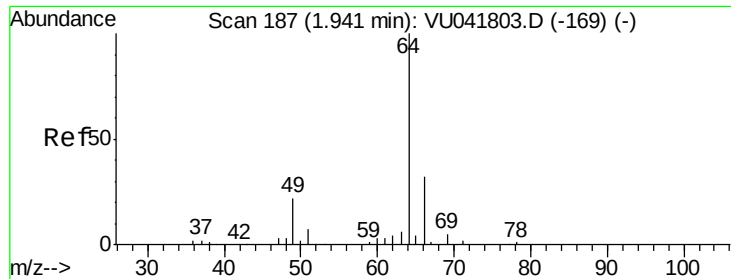
10000

0

Time-->

1.80 1.85 1.90 1.95

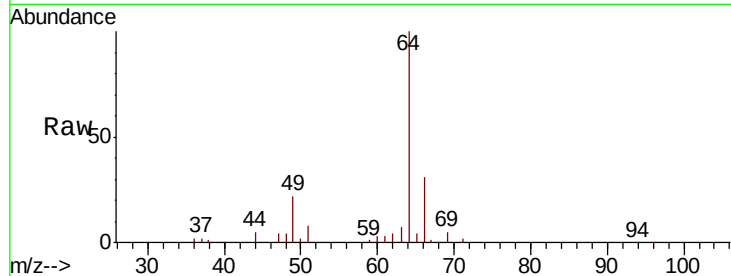




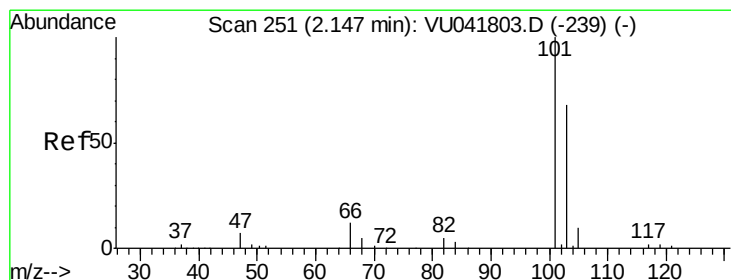
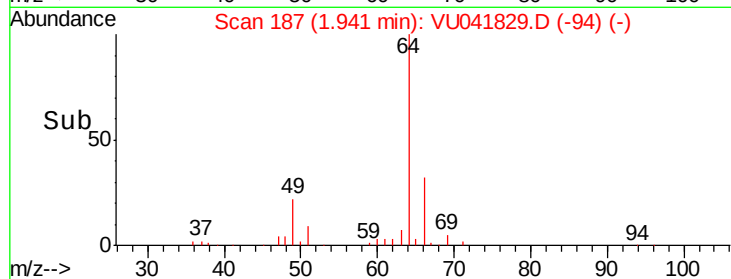
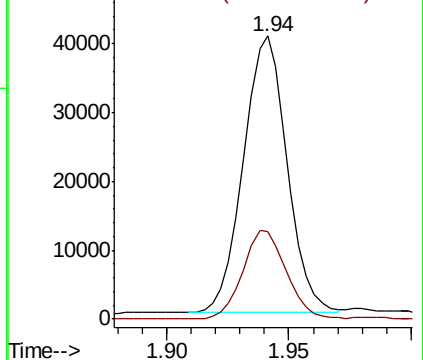
#8  
Chloroethane  
Concen: 4.977 ug/L  
RT: 1.94 min Scan# 187  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB31

Tot Ion: 64 Resp: 49771  
Ion Ratio Lower Upper  
64 100  
66 31.0 21.6 40.0

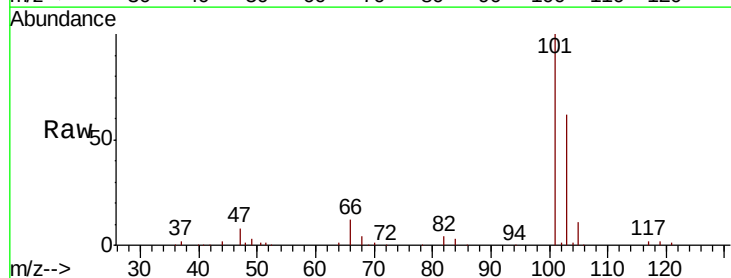


Abundance Ion 64.10 (63.80 to 64.80): VU041803.D (-169) (-)  
Ion 66.05 (65.75 to 66.75): VU041803.D (-169) (-)

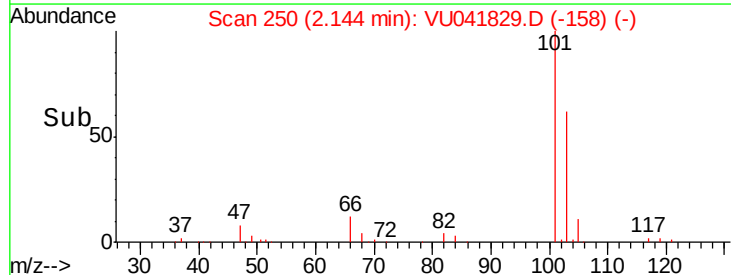
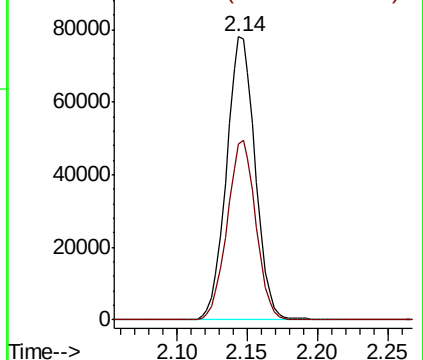


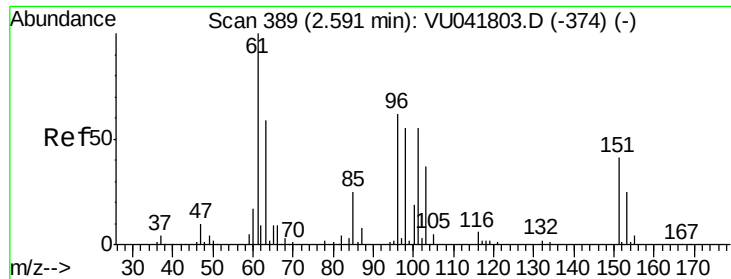
#9  
Trichlorofluoromethane  
Concen: 5.955 ug/L  
RT: 2.14 min Scan# 250  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion:101 Resp: 110974  
Ion Ratio Lower Upper  
101 100  
103 63.3 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU041803.D (-239) (-)  
Ion 103.00 (102.70 to 103.70): VU041803.D (-239) (-)





#10

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

Concen: 5.781 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

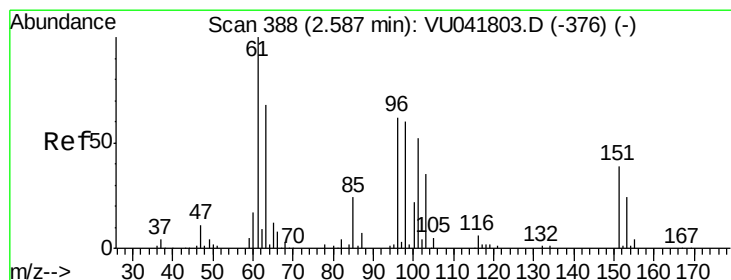
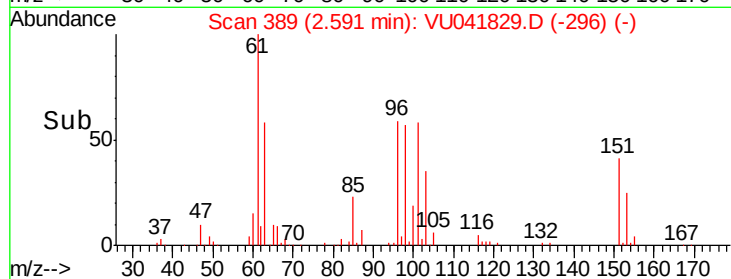
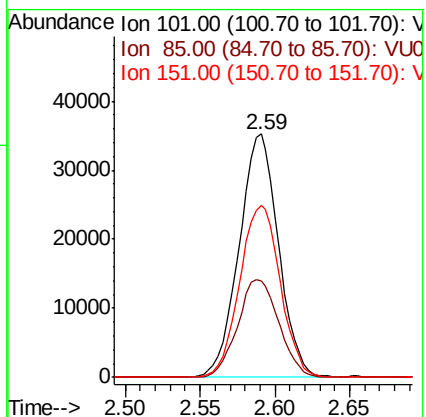
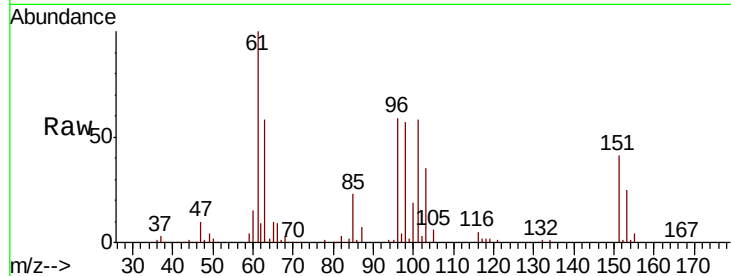
Tot Ion:101 Resp: 64423

Ion Ratio Lower Upper

101 100

85 42.1 33.6 50.4

151 72.7 56.2 84.4



#12

1,1-Dichloroethene

Concen: 5.621 ug/L

RT: 2.59 min Scan# 388

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

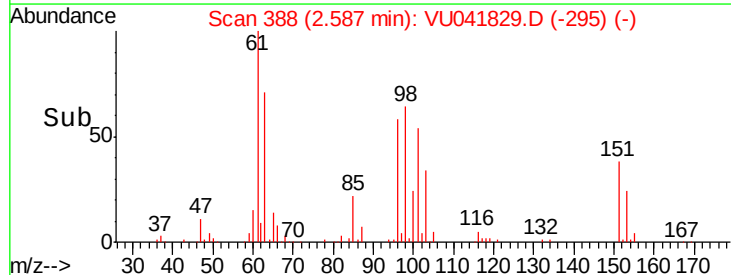
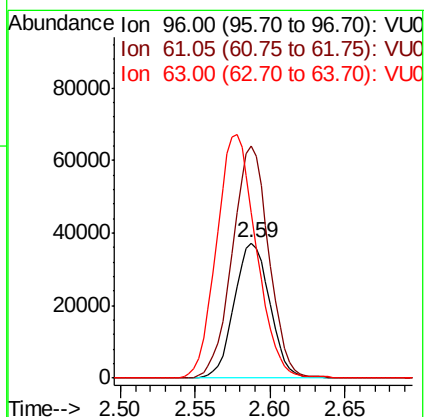
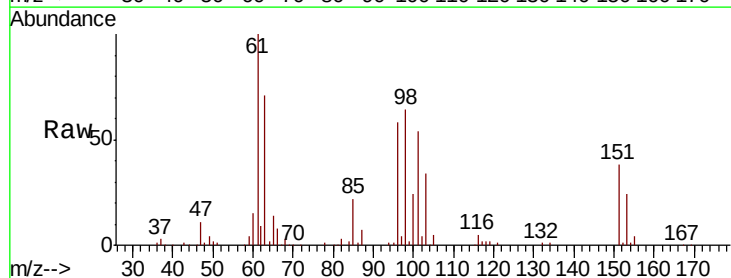
Tgt Ion: 96 Resp: 61773

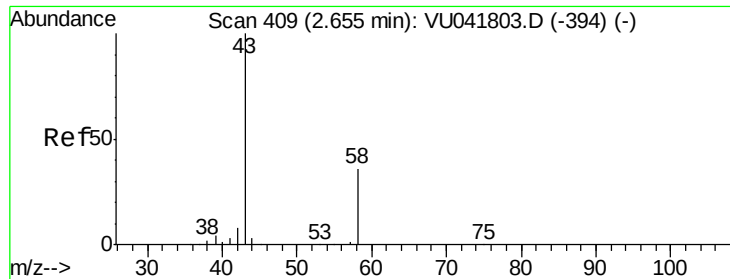
Ion Ratio Lower Upper

96 100

61 172.3 123.8 230.0

63 122.7 81.0 150.4





#13

Acetone

Concen: 45.344 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.02 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

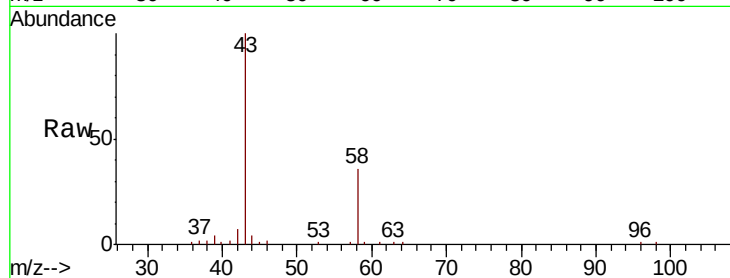
BFB31

Tot Ion: 43 Resp: 104930

Ion Ratio Lower Upper

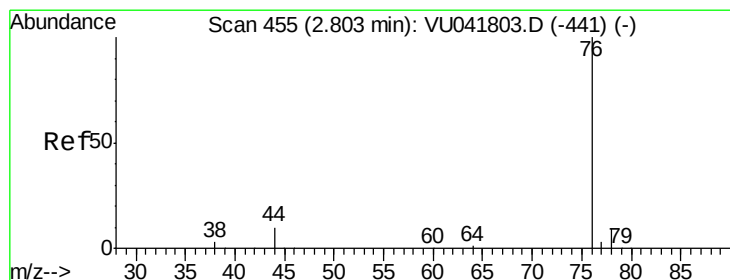
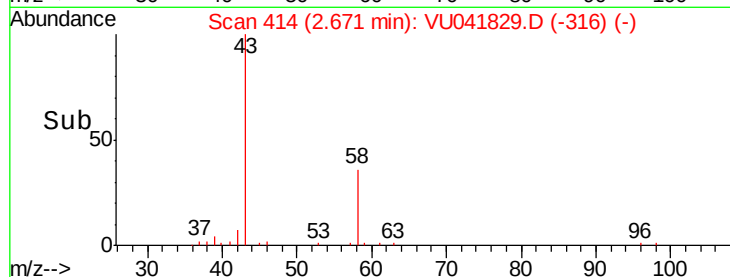
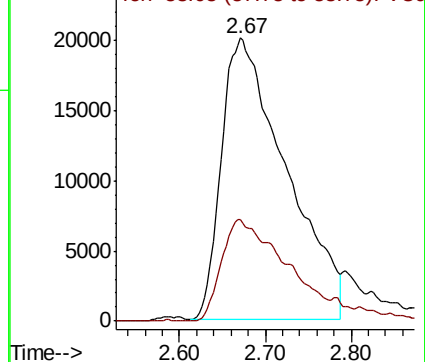
43 100

58 35.5 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 5.312 ug/L

RT: 2.80 min Scan# 455

Delta R.T. 0.00 min

Lab File: VU041829.D

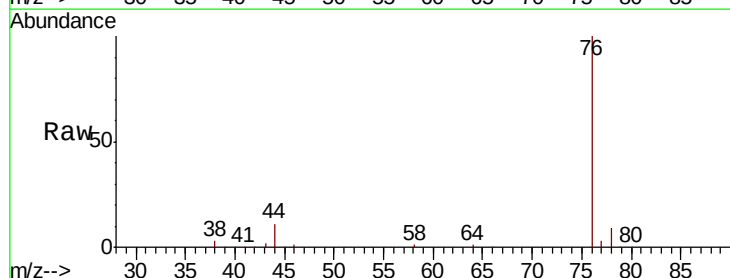
Acq: 29 Dec 2020 10:49

Tgt Ion: 76 Resp: 201733

Ion Ratio Lower Upper

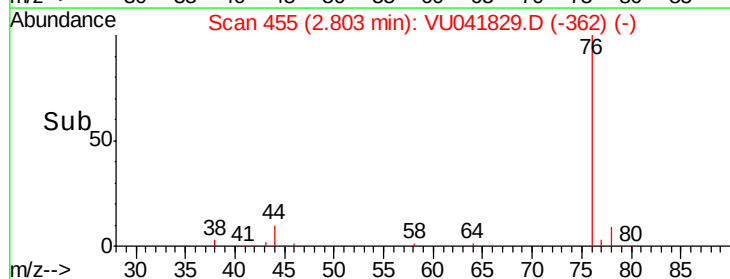
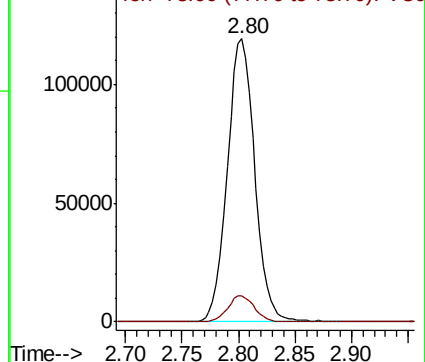
76 100

78 9.2 7.4 11.2

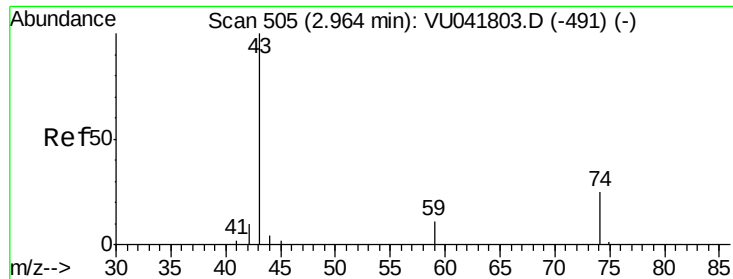


Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0



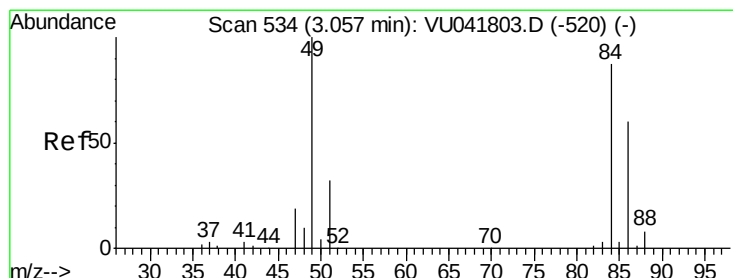
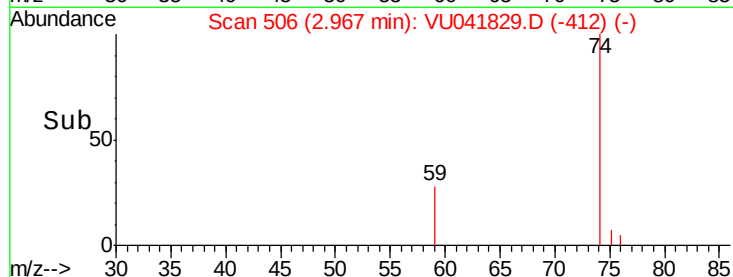
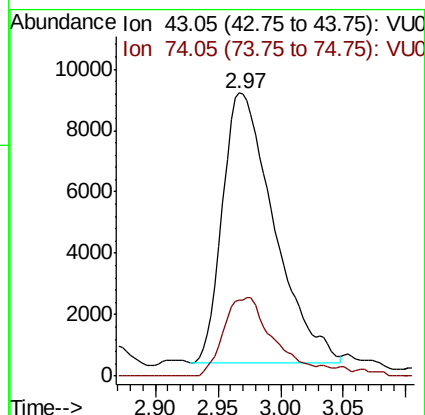
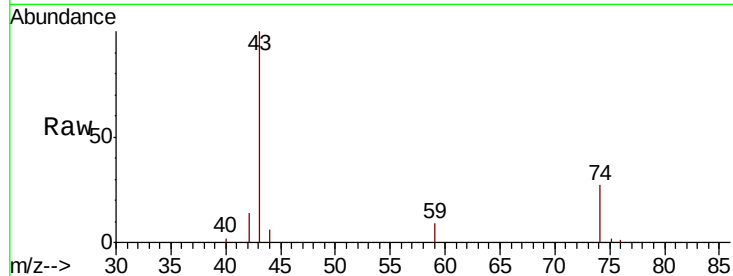




#15  
Methvl Acetate  
Concen: 4.195 ug/L  
RT: 2.97 min Scan# 506  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

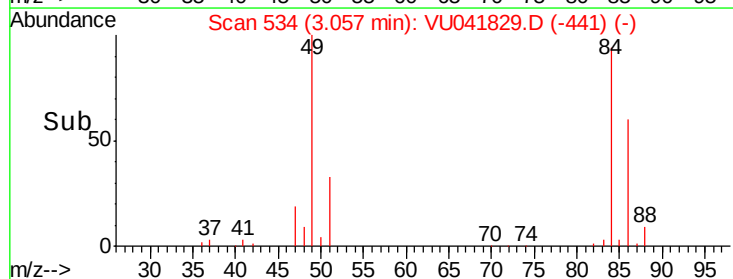
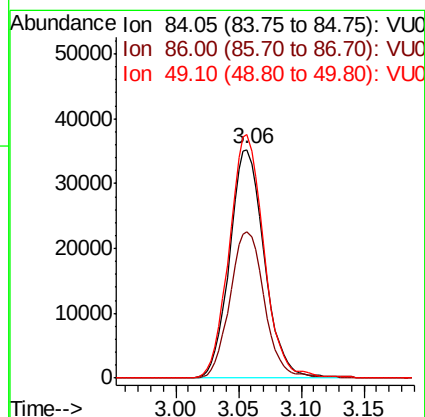
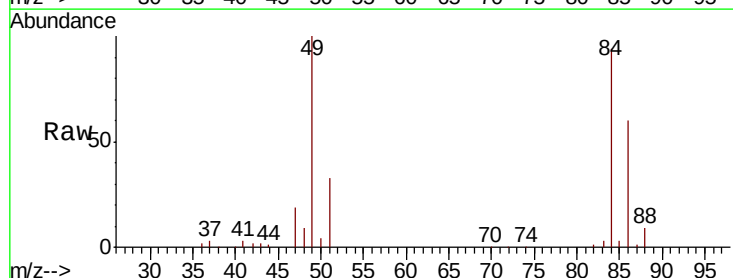
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB31

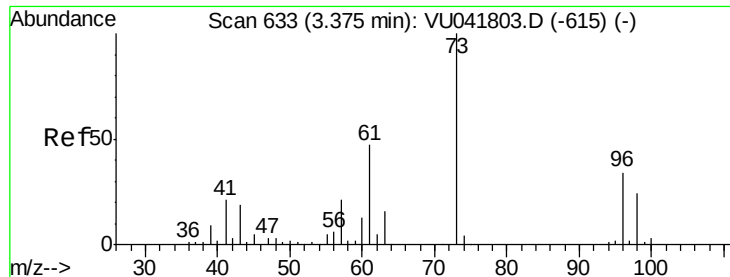
Tot Ion: 43 Resp: 25235  
Ion Ratio Lower Upper  
43 100  
74 27.7 19.2 28.8



#16  
Methylene chloride  
Concen: 5.162 ug/L  
RT: 3.06 min Scan# 534  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion: 84 Resp: 67756  
Ion Ratio Lower Upper  
84 100  
86 64.2 45.1 83.7  
49 106.6 83.1 154.3

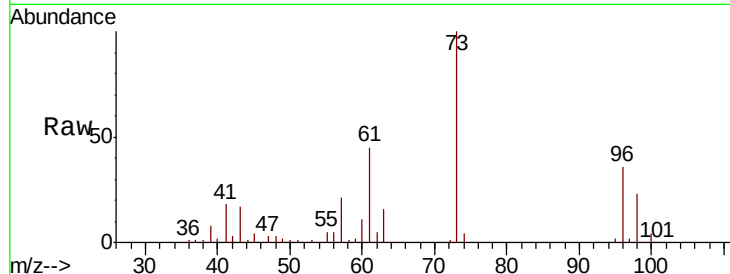




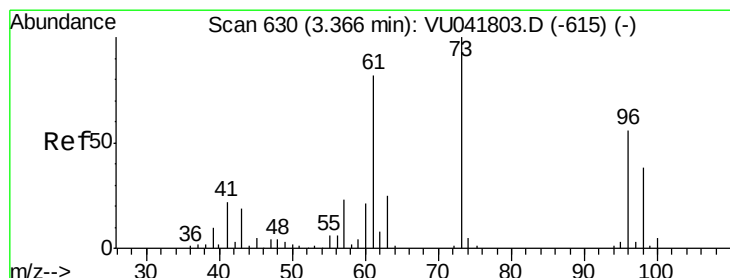
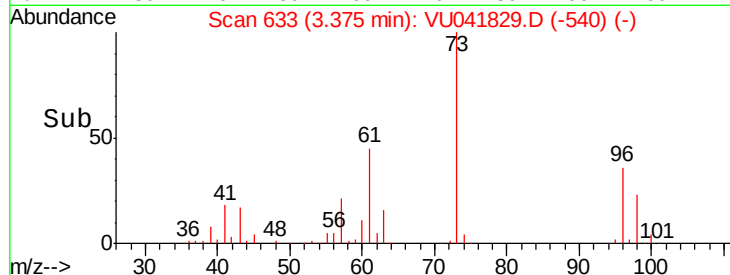
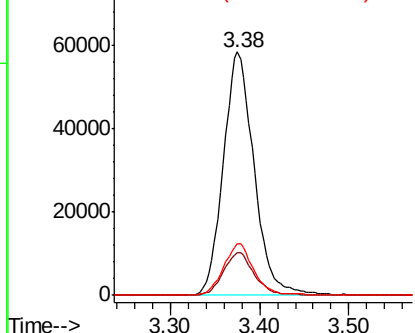
#17  
Methyl tert-butyl Ether  
Concen: 4.760 ug/L  
RT: 3.38 min Scan# 633  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB31

Tot Ion: 73 Resp: 139584  
Ion Ratio Lower Upper  
73 100  
43 17.7 14.7 22.1  
57 20.8 18.2 27.4

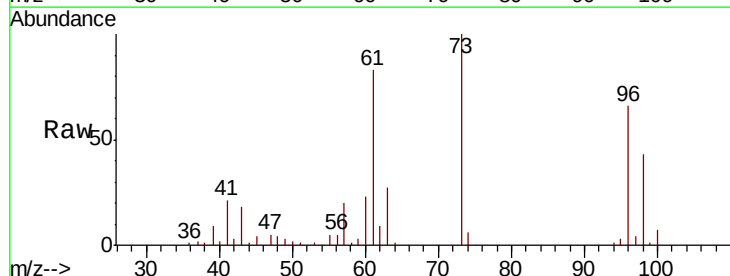


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

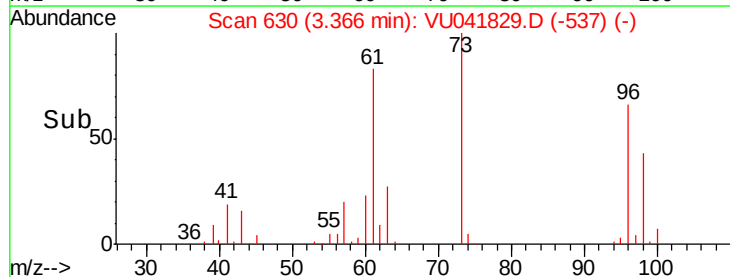
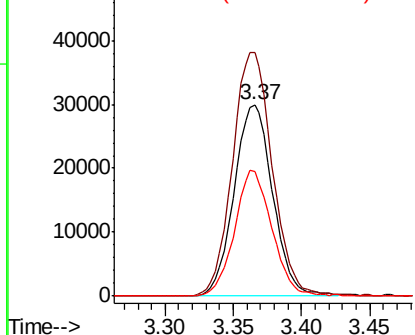


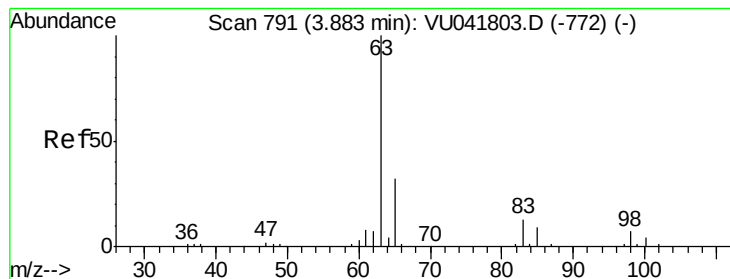
#18  
trans-1,2-Dichloroethene  
Concen: 5.186 ug/L  
RT: 3.37 min Scan# 630  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion: 96 Resp: 58947  
Ion Ratio Lower Upper  
96 100  
61 127.0 101.8 189.0  
98 64.8 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.473 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

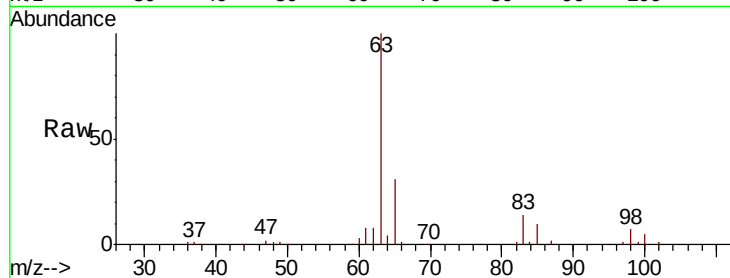
Tot Ion: 63 Resp: 95035

Ion Ratio Lower Upper

63 100

65 31.3 21.3 39.6

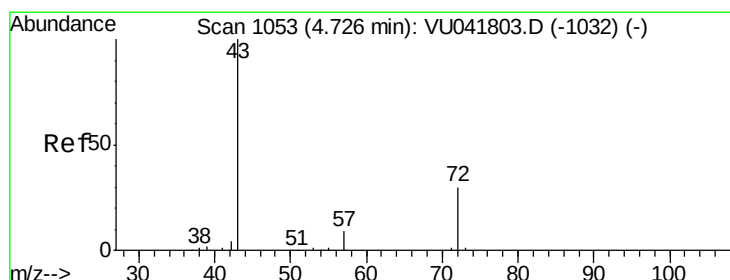
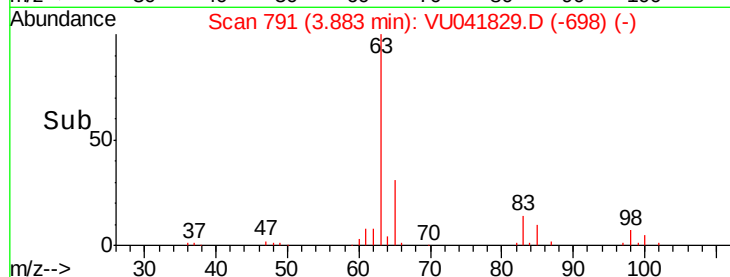
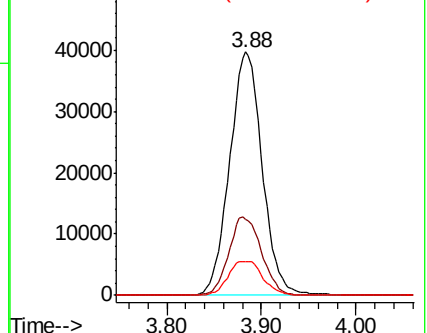
83 13.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU041803.D (-772) (-)

Ion 65.10 (64.80 to 65.80): VU041803.D (-772) (-)

Ion 83.05 (82.75 to 83.75): VU041803.D (-772) (-)



#21

2-Butanone

Concen: 39.982 ug/L

RT: 4.74 min Scan# 1056

Delta R.T. 0.01 min

Lab File: VU041829.D

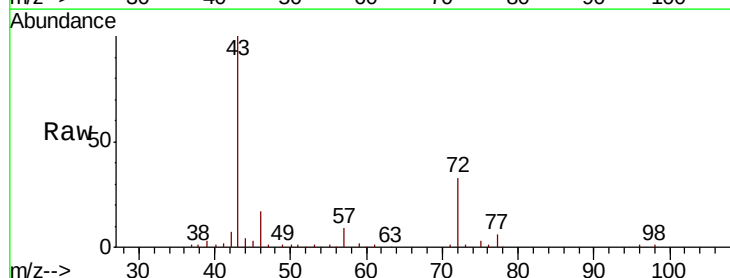
Acq: 29 Dec 2020 10:49

Tgt Ion: 43 Resp: 150705

Ion Ratio Lower Upper

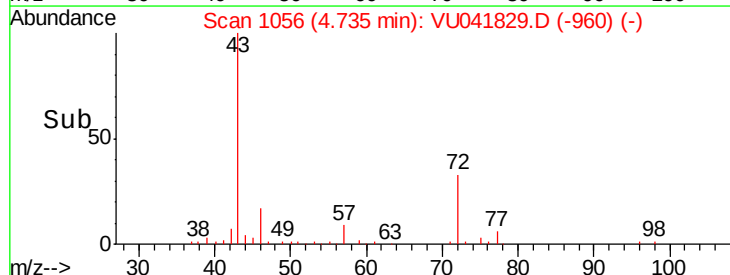
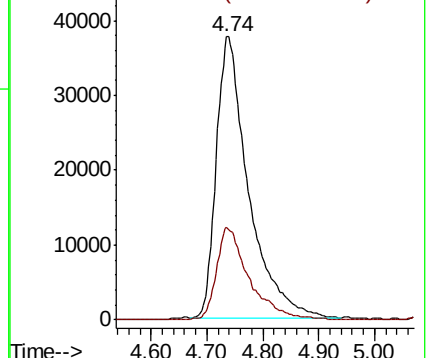
43 100

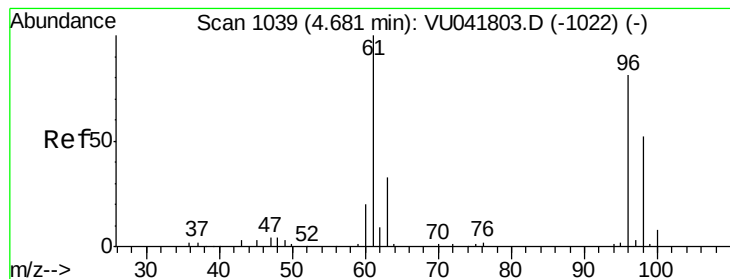
72 33.1 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041803.D (-1032) (-)

Ion 72.10 (71.80 to 72.80): VU041803.D (-1032) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.714 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

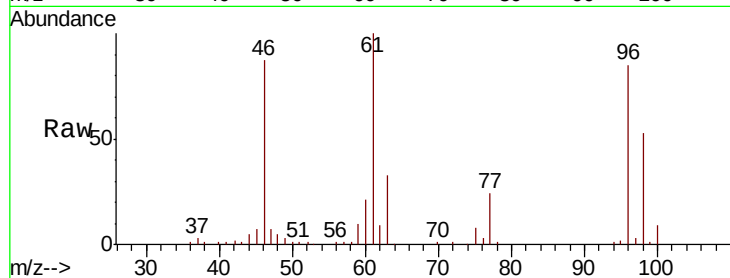
Tot Ion: 96 Resp: 59221

Ion Ratio Lower Upper

96 100

61 118.2 88.8 165.0

68 0.0 0.0 0.0

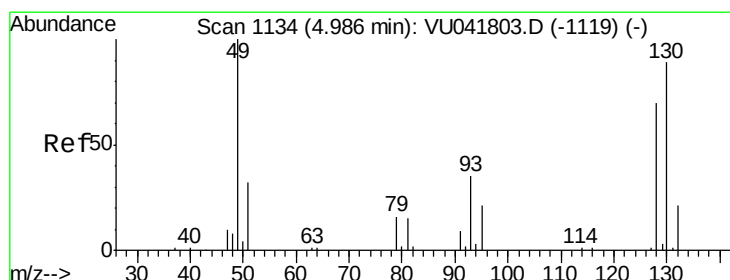
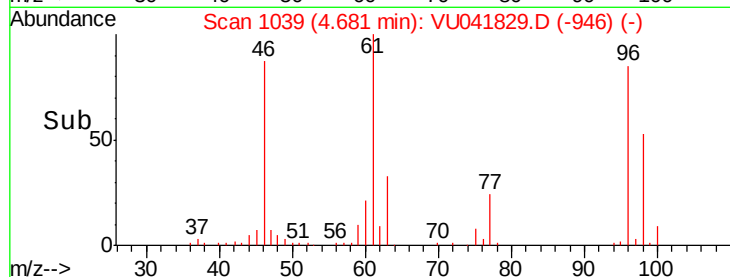
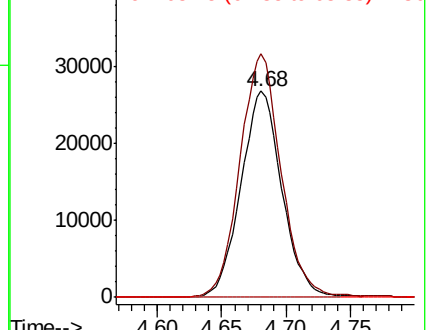


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.244 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Tgt Ion: 128 Resp: 30262

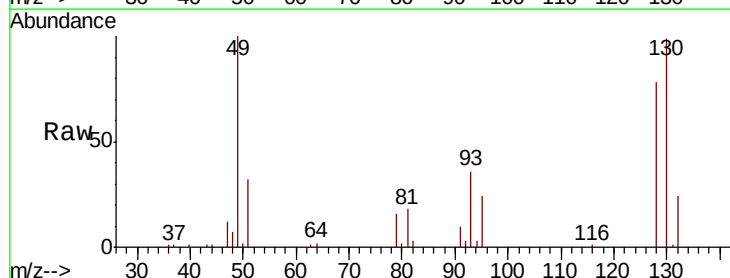
Ion Ratio Lower Upper

128 100

49 128.3 109.3 203.1

130 127.3 84.8 157.6

51 40.8 40.6 61.0



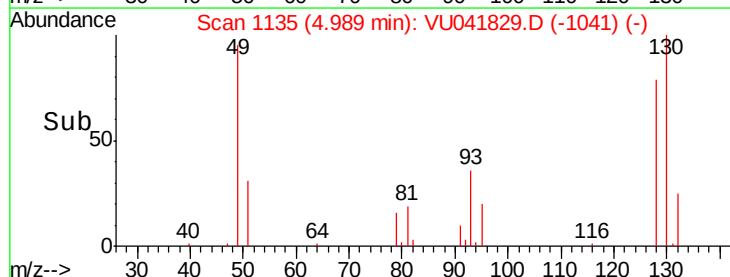
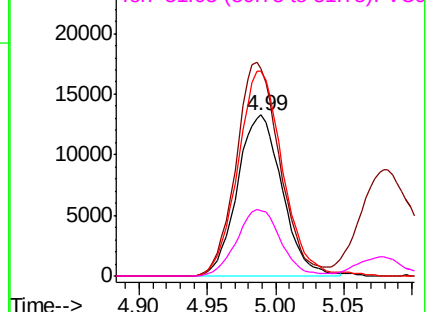
Abundance

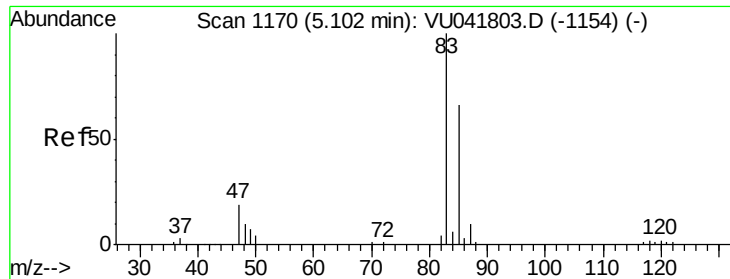
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

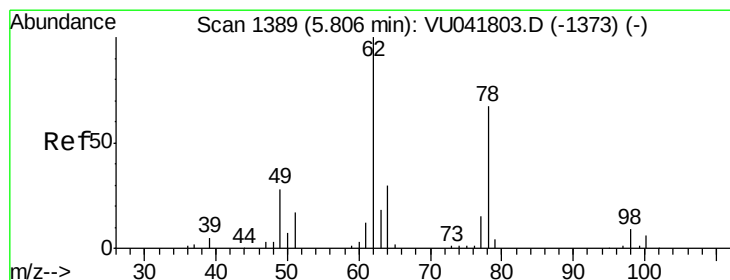
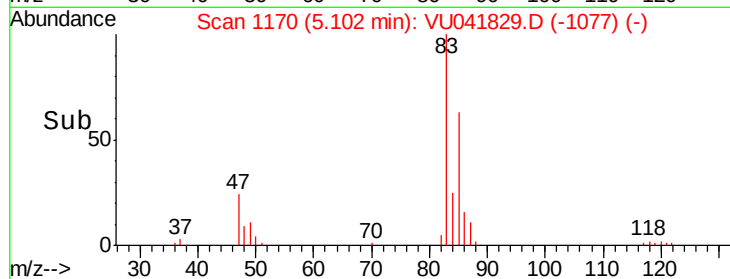
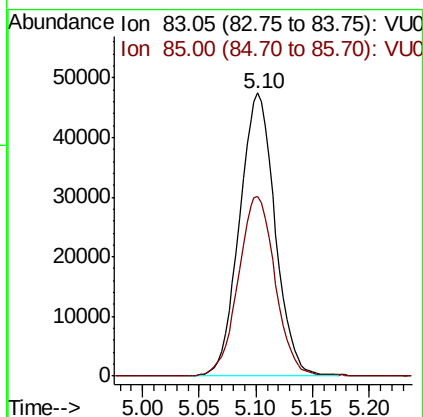
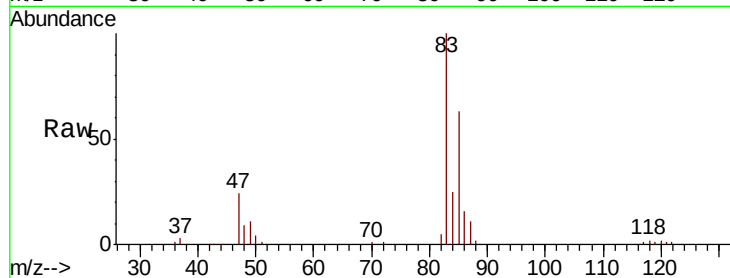




#25  
Chloroform  
Concen: 4.861 ug/L  
RT: 5.10 min Scan# 1170  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

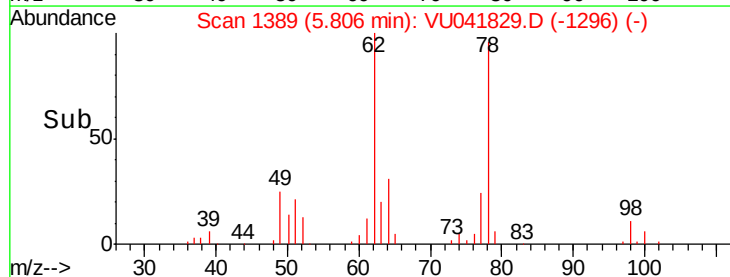
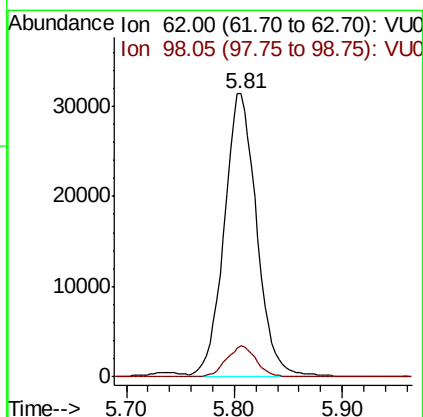
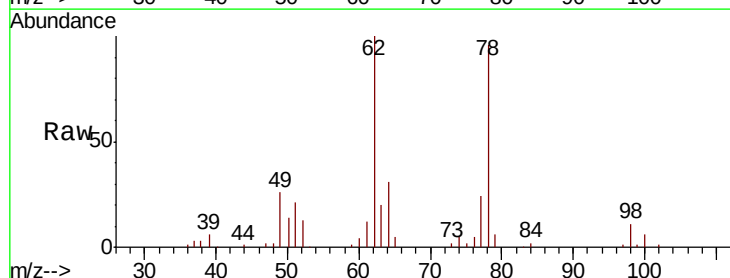
Instrument :  
MSVOA\_U  
ClientSampled :  
BFB31

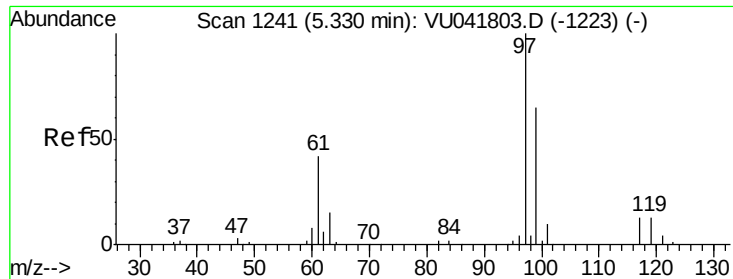
Tot Ion: 83 Resp: 104006  
Ion Ratio Lower Upper  
83 100  
85 63.4 44.2 82.0



#27  
1,2-Dichloroethane  
Concen: 4.559 ug/L  
RT: 5.81 min Scan# 1389  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion: 62 Resp: 66048  
Ion Ratio Lower Upper  
62 100  
98 10.9 8.2 12.2

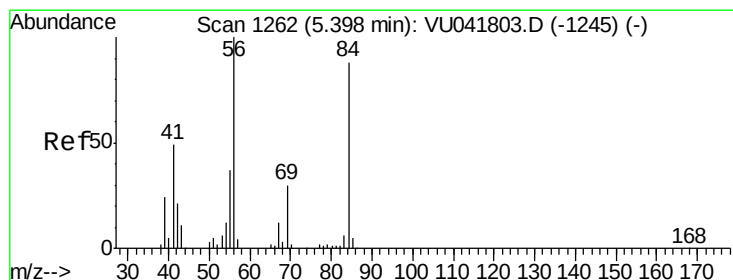
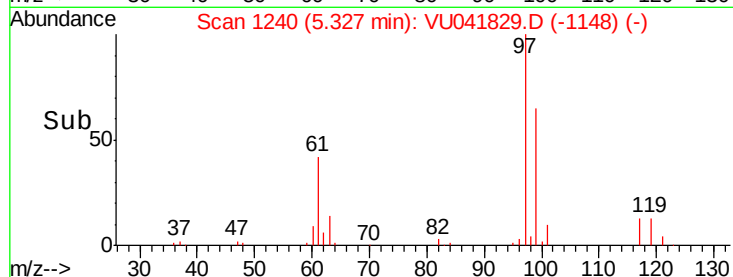
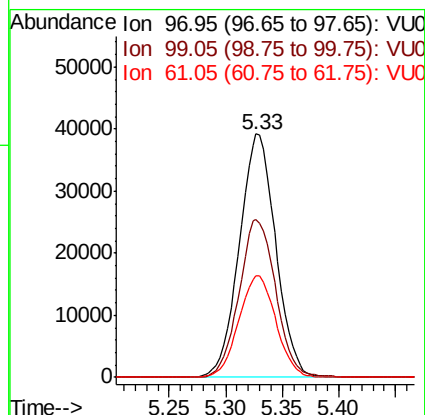
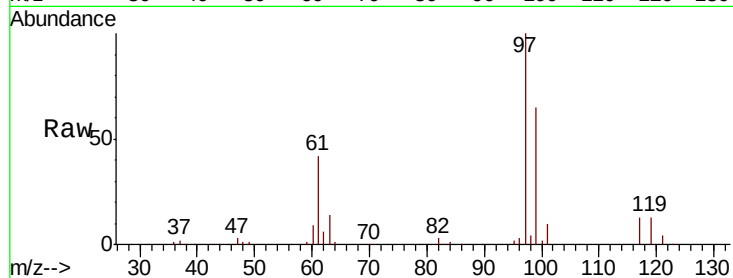




#29  
 1,1,1-Trichloroethane  
 Concen: 4.824 ug/L  
 RT: 5.33 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

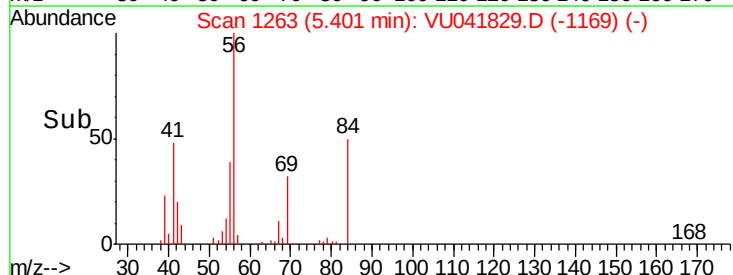
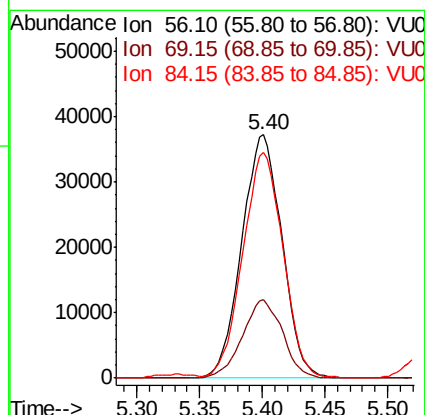
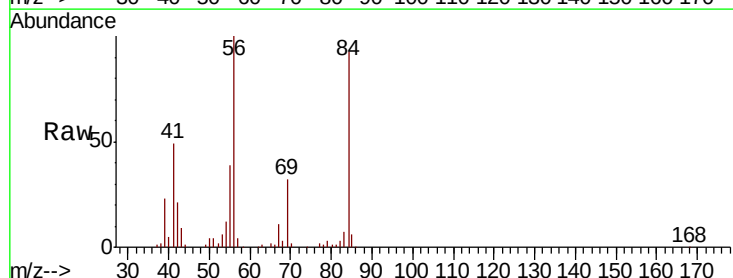
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFB31

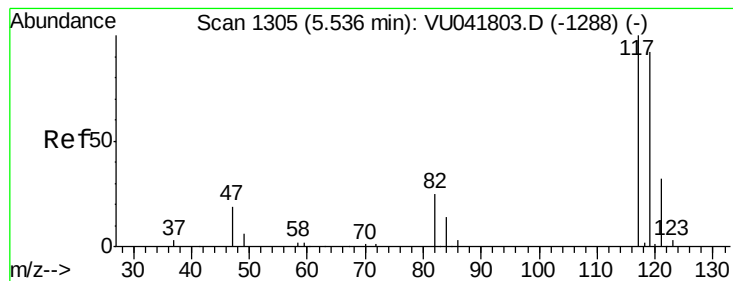
Tot Ion: 97 Resp: 87827  
 Ion Ratio Lower Upper  
 97 100  
 99 65.3 51.3 76.9  
 61 42.5 36.5 54.7



#30  
 Cyclohexane  
 Concen: 4.071 ug/L  
 RT: 5.40 min Scan# 1263  
 Delta R.T. 0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

Tgt Ion: 56 Resp: 83069  
 Ion Ratio Lower Upper  
 56 100  
 69 31.9 23.8 35.8  
 84 92.8 66.2 99.4





#31

Carbon tetrachloride

Concen: 5.118 ug/L

RT: 5.53 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

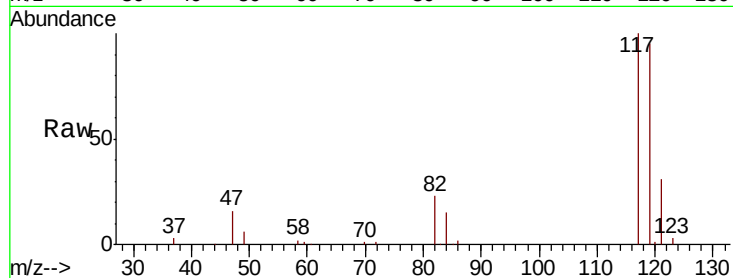
BFB31

Tot Ion:117 Resp: 80570

Ion Ratio Lower Upper

117 100

119 95.8 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.53

40000

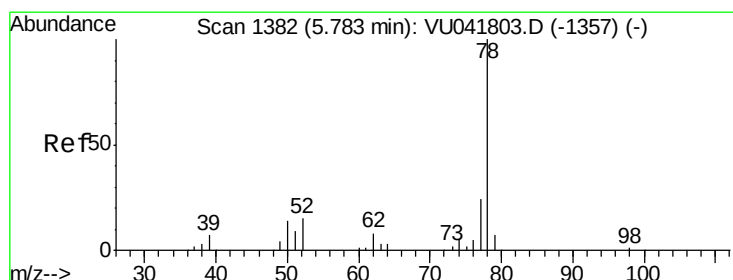
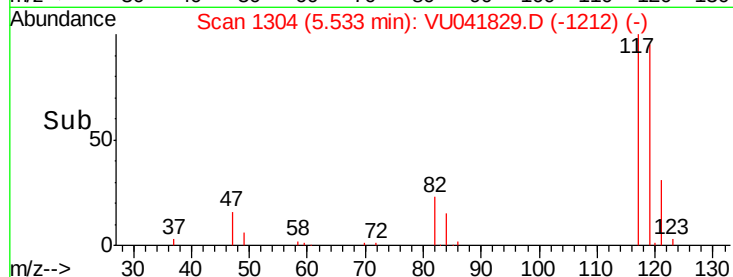
30000

20000

10000

0

Time-->



#33

Benzene

Concen: 4.493 ug/L

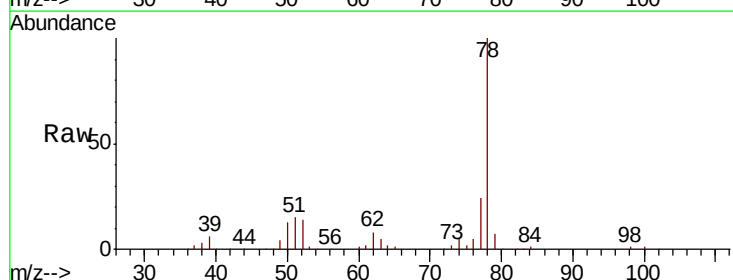
RT: 5.78 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Tgt Ion: 78 Resp: 227819



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.78

120000

100000

80000

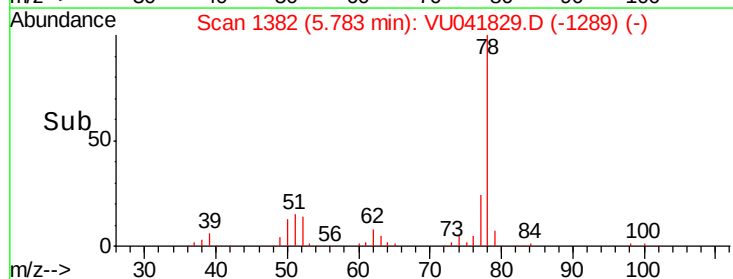
60000

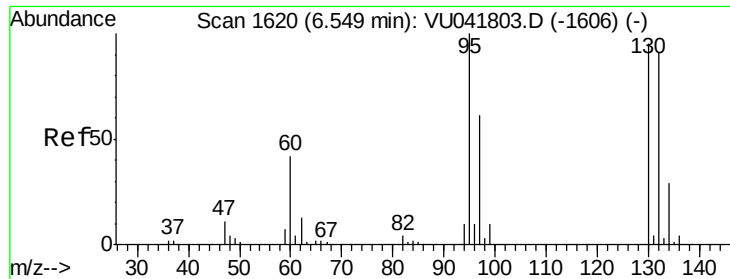
40000

20000

0

Time-->





#34

Trichloroethene

Concen: 4.685 ug/L

RT: 6.55 min Scan# 1620

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

Tot Ion: 95 Resp: 59687

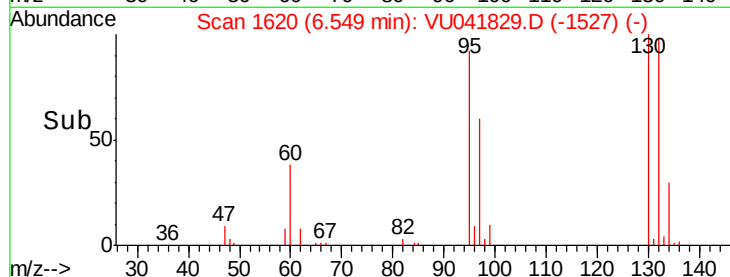
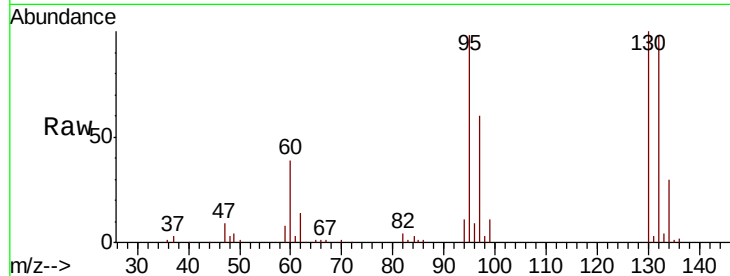
Ion Ratio Lower Upper

95 100

97 61.6 43.9 81.5

132 100.0 63.1 117.3

130 101.8 67.4 125.2

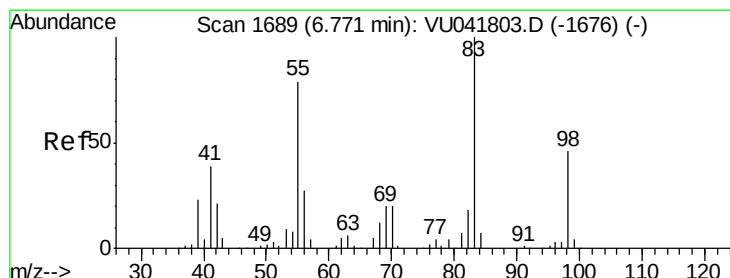
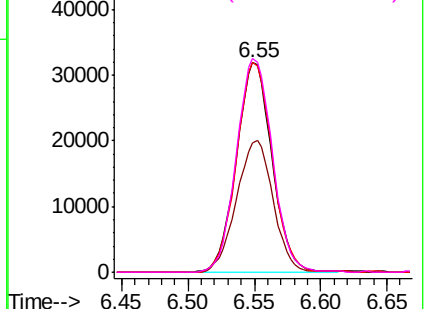


Abundance Ion 95.00 (94.70 to 95.70): VU041829.D (-1527) (-)

Ion 96.95 (96.65 to 97.65): VU041829.D (-1527) (-)

Ion 131.95 (131.65 to 132.65): VU041829.D (-1527) (-)

Ion 129.95 (129.65 to 130.65): VU041829.D (-1527) (-)



#35

Methylcyclohexane

Concen: 4.444 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

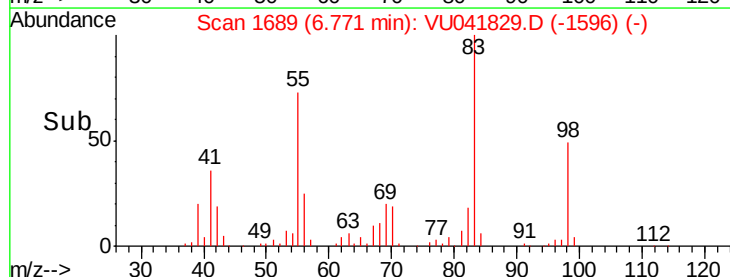
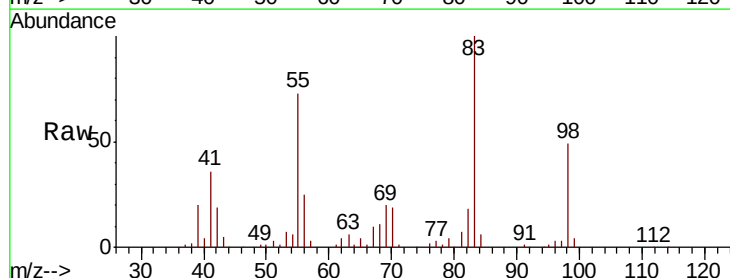
Tgt Ion: 83 Resp: 91522

Ion Ratio Lower Upper

83 100

55 74.9 61.2 91.8

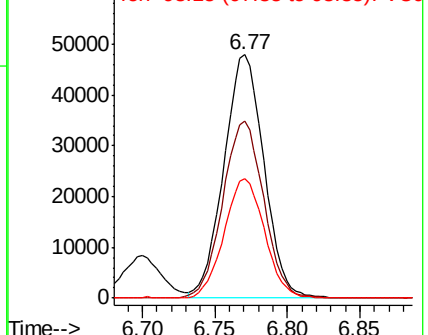
98 49.7 36.6 54.8



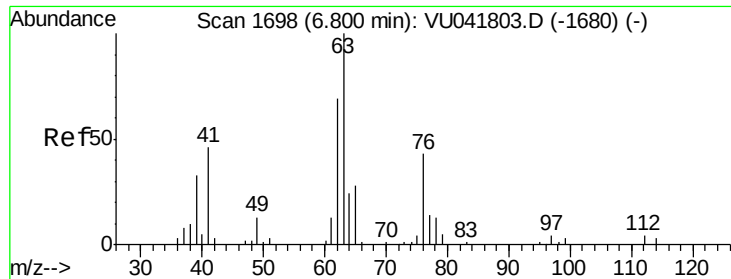
Abundance Ion 83.15 (82.85 to 83.85): VU041829.D (-1596) (-)

Ion 55.10 (54.80 to 55.80): VU041829.D (-1596) (-)

Ion 98.15 (97.85 to 98.85): VU041829.D (-1596) (-)



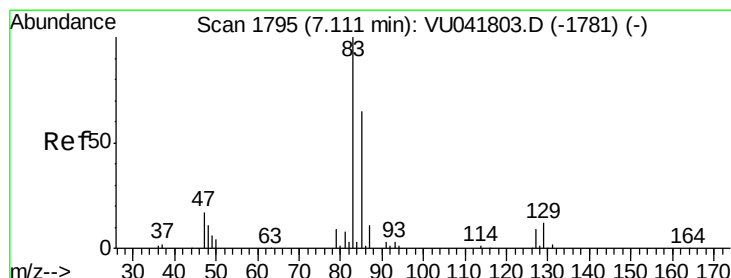
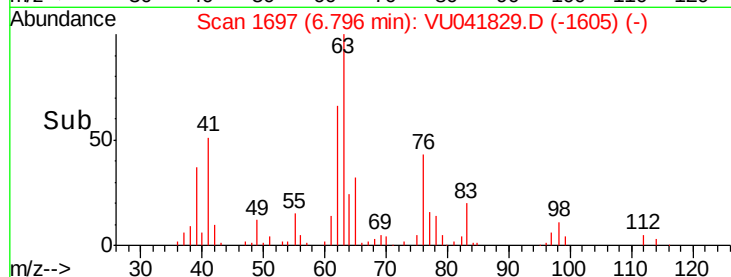
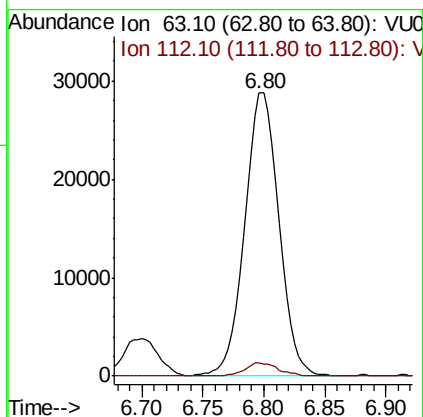
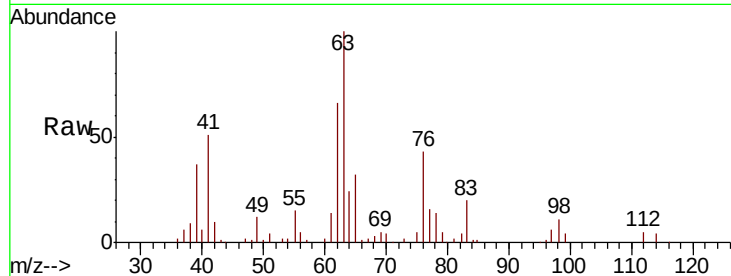




#37  
 1,2-Dichloropropane  
 Concen: 4.291 ug/L  
 RT: 6.80 min Scan# 1697  
 Delta R.T. -0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

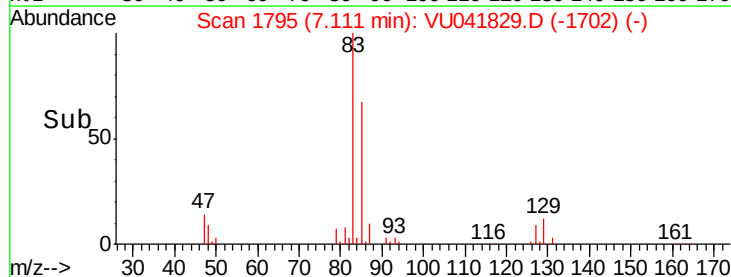
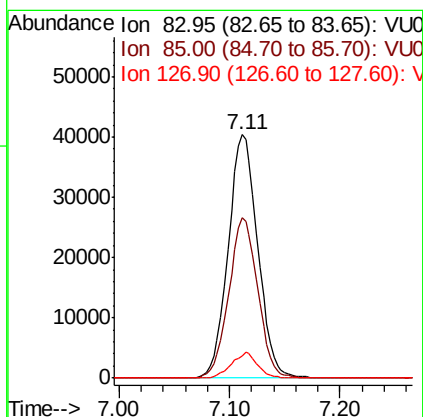
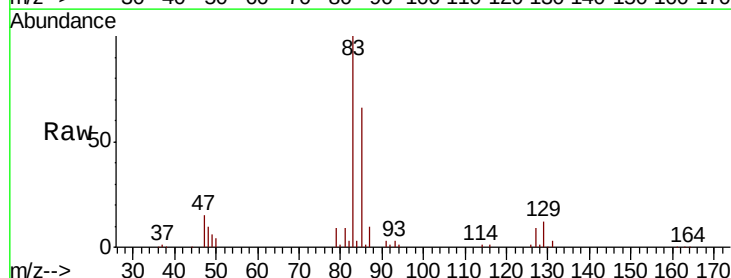
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB31

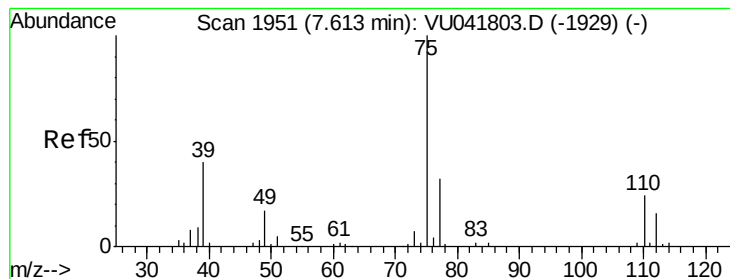
Tot Ion: 63 Resp: 55651  
 Ion Ratio Lower Upper  
 63 100  
 112 4.5 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 4.653 ug/L  
 RT: 7.11 min Scan# 1795  
 Delta R.T. 0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

Tgt Ion: 83 Resp: 75076  
 Ion Ratio Lower Upper  
 83 100  
 85 66.0 45.5 84.5  
 127 9.3 7.0 10.6



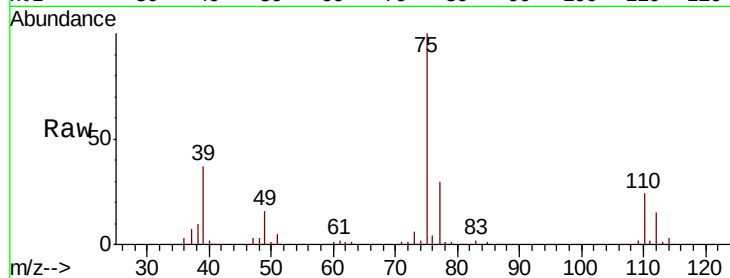


#39

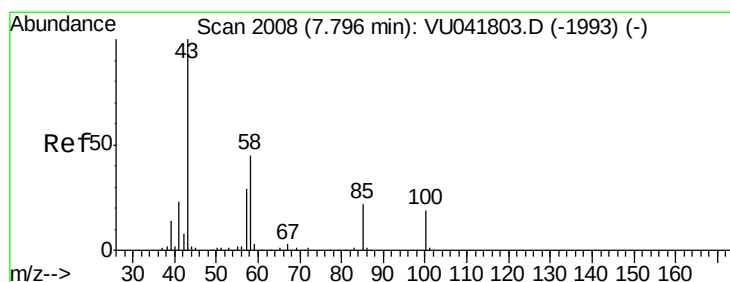
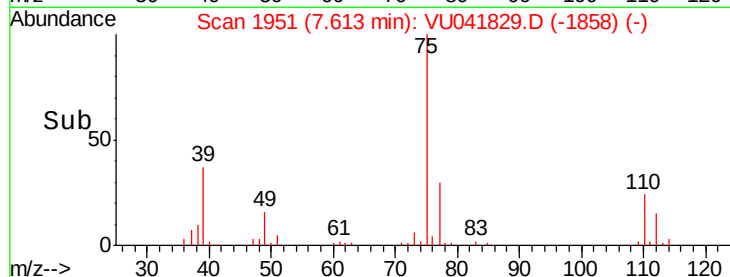
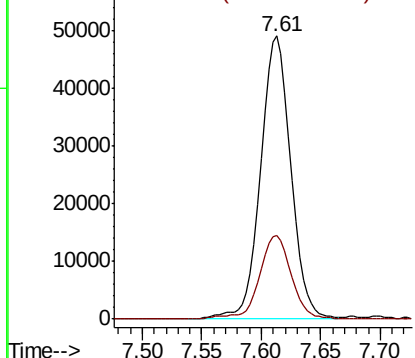
cis-1,3-Dichloropropene  
 Concen: 4.513 ug/L  
 RT: 7.61 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFB31

Tot Ion: 75 Resp: 86723  
 Ion Ratio Lower Upper  
 75 100  
 77 29.7 22.3 41.3



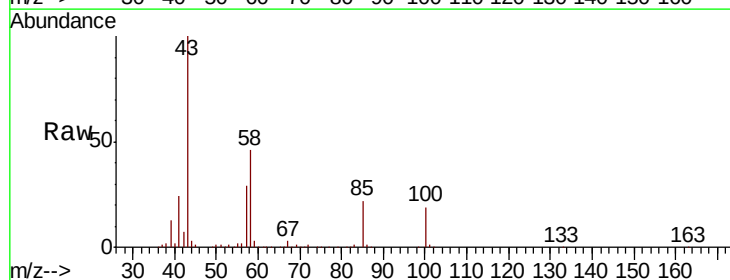
Abundance Ion 75.05 (74.75 to 75.75): VU0  
 Ion 77.05 (76.75 to 77.75): VU0



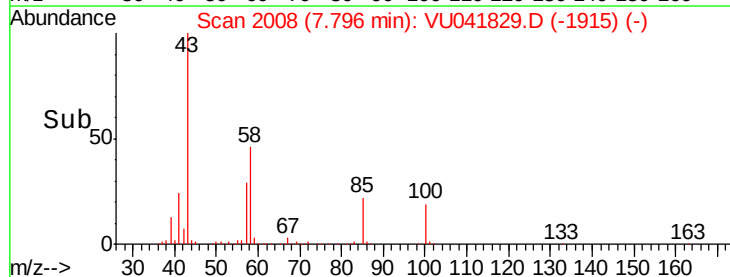
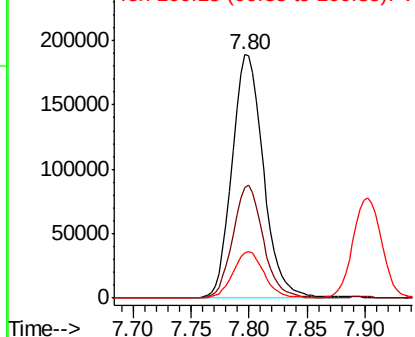
#40

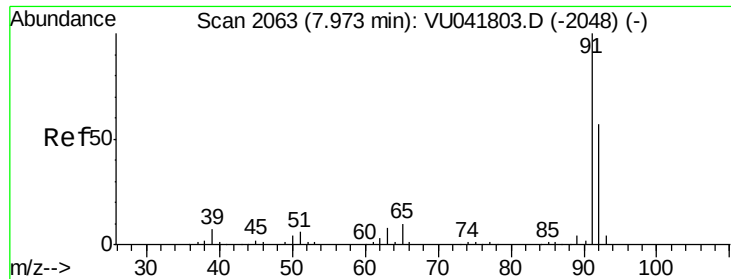
4-Methyl-2-pentanone  
 Concen: 38.354 ug/L  
 RT: 7.80 min Scan# 2008  
 Delta R.T. 0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

Tgt Ion: 43 Resp: 353925  
 Ion Ratio Lower Upper  
 43 100  
 58 44.8 34.2 51.2  
 100 18.9 12.3 18.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 58.05 (57.75 to 58.75): VU0  
 Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.717 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

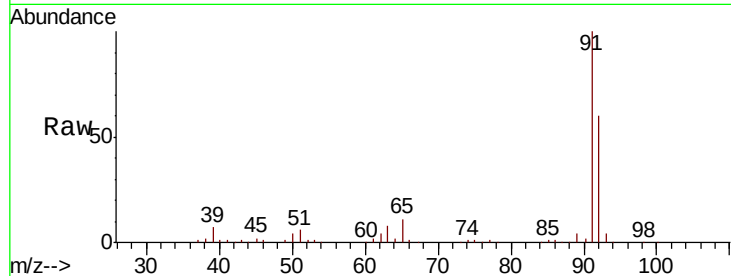
BFB31

Tot Ion: 91 Resp: 246912

Ion Ratio Lower Upper

91 100

92 59.6 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.97

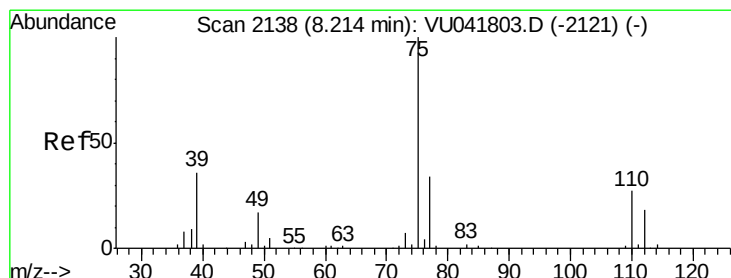
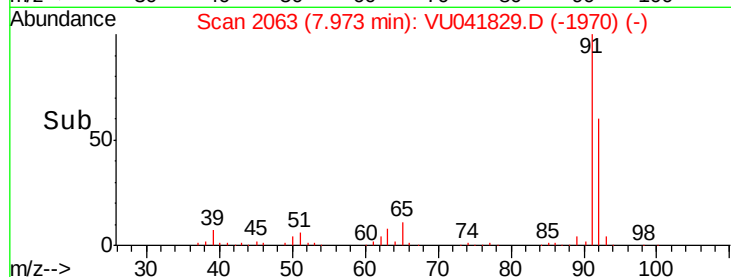
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.644 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU041829.D

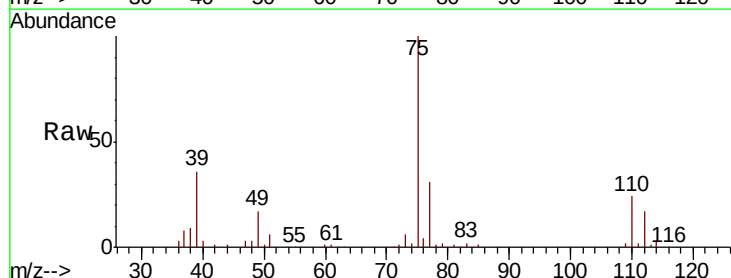
Acq: 29 Dec 2020 10:49

Tgt Ion: 75 Resp: 79804

Ion Ratio Lower Upper

75 100

77 30.5 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.21

50000

40000

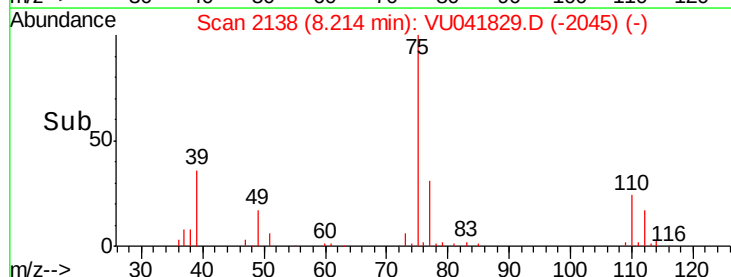
30000

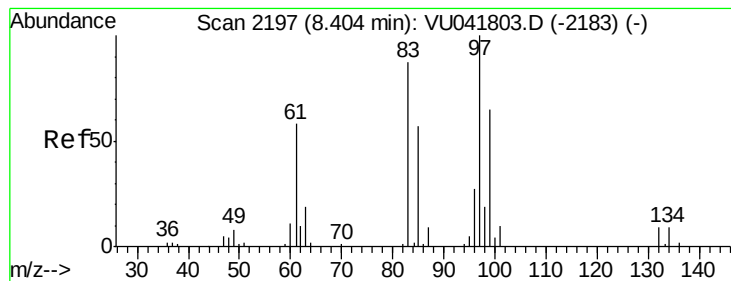
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.860 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

Tot Ion: 97 Resp: 46607

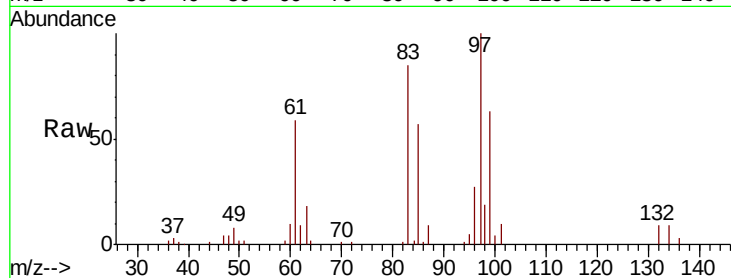
Ion Ratio Lower Upper

97 100

99 62.9 42.1 78.3

83 85.2 62.6 116.2

85 57.0 39.1 72.7

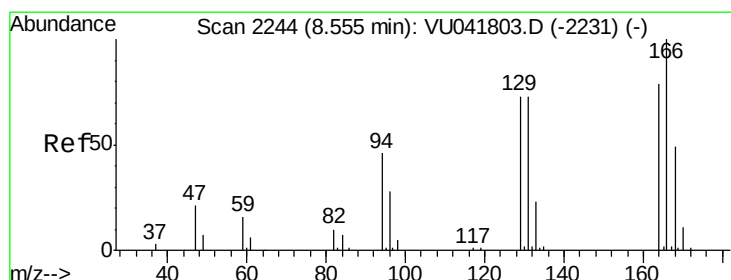
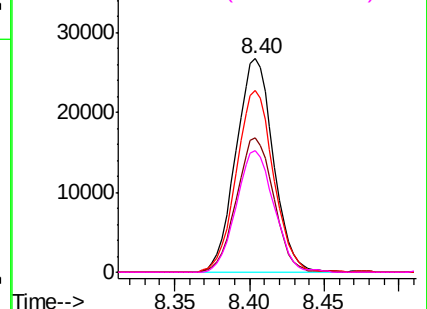
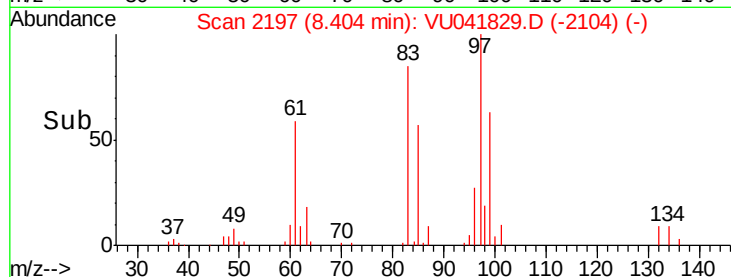


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.406 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Tgt Ion:164 Resp: 48218

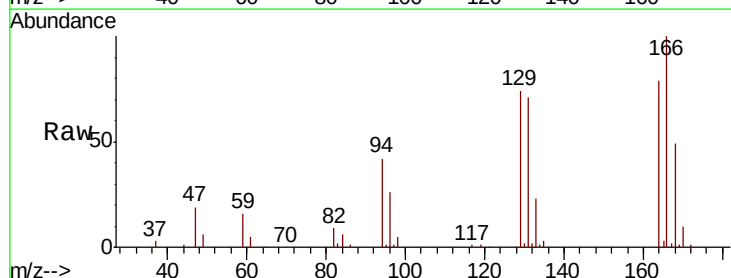
Ion Ratio Lower Upper

164 100

129 93.4 72.2 134.0

131 89.8 66.9 124.3

166 125.9 89.6 166.4

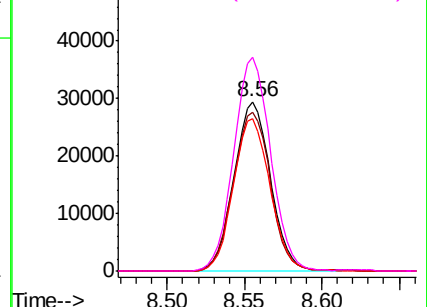
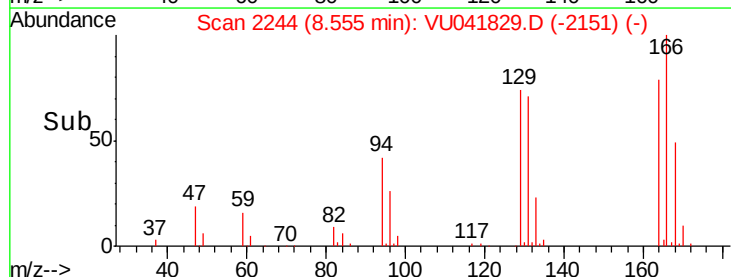


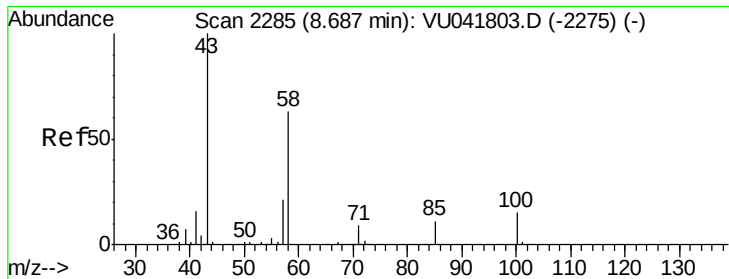
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

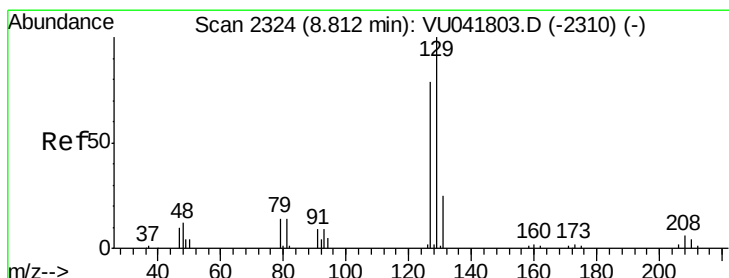
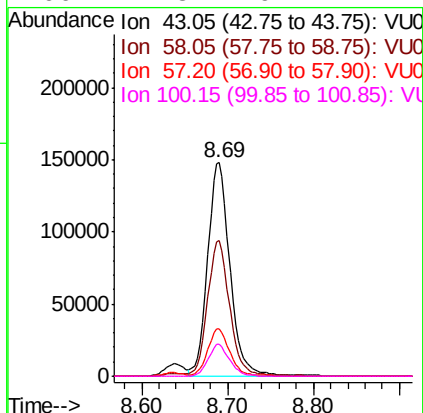
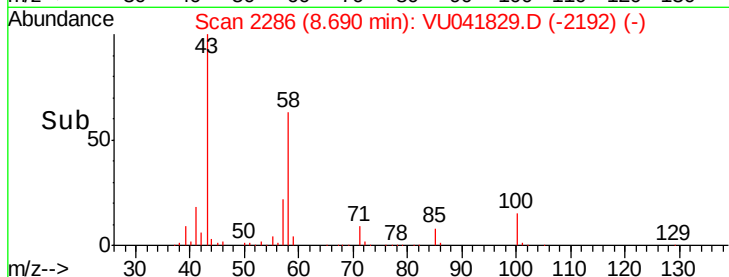
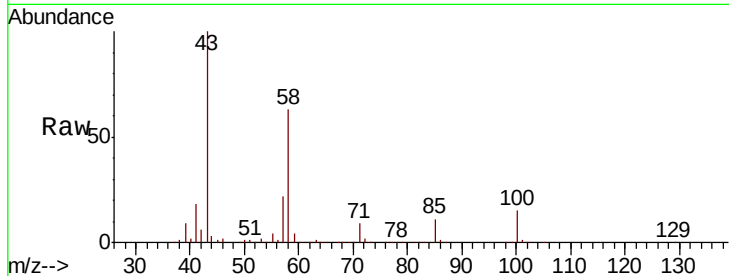




#48  
2-Hexanone  
Concen: 40.106 ug/L  
RT: 8.69 min Scan# 2286  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

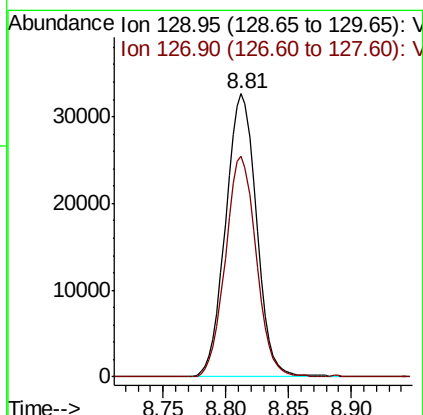
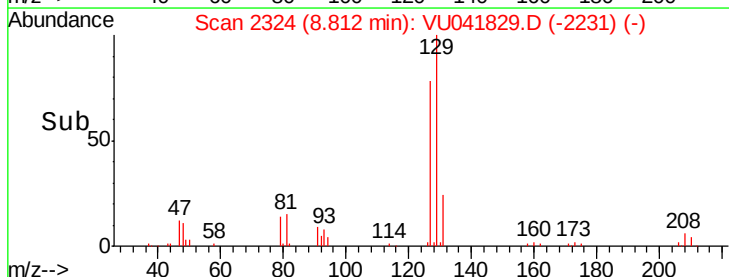
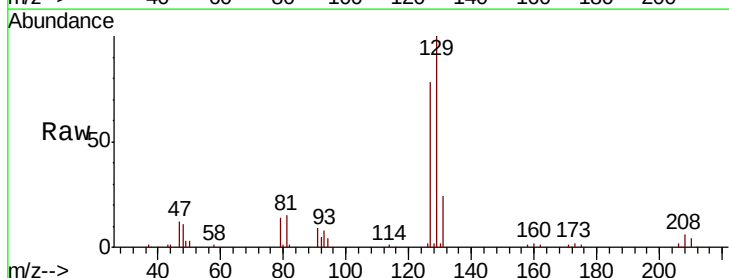
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB31

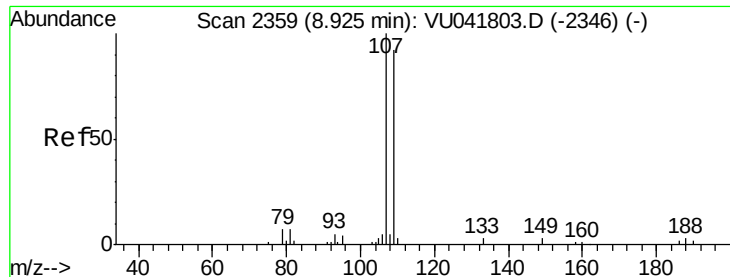
Tot Ion: 43 Resp: 269339  
Ion Ratio Lower Upper  
43 100  
58 62.1 47.9 71.9  
57 21.1 16.5 24.7  
100 14.3 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 5.063 ug/L  
RT: 8.81 min Scan# 2324  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion: 129 Resp: 55771  
Ion Ratio Lower Upper  
129 100  
127 78.1 54.7 101.7

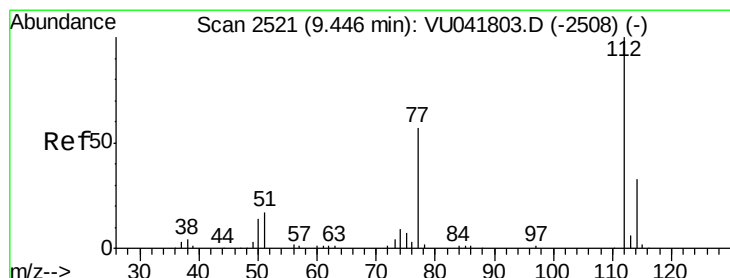
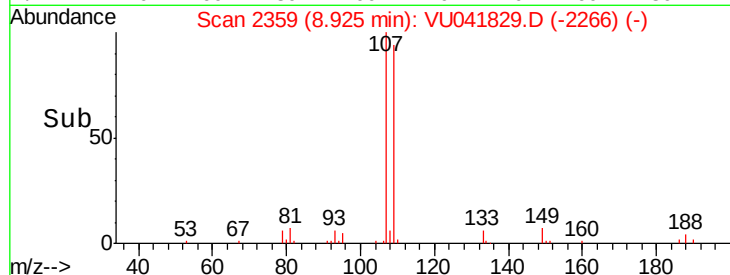
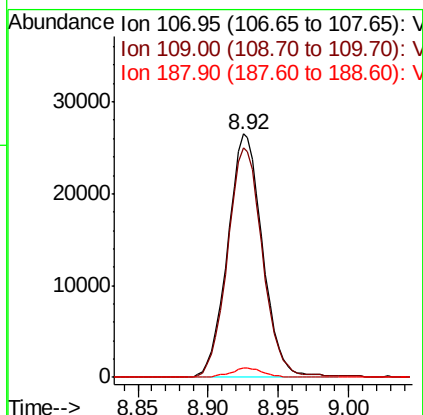
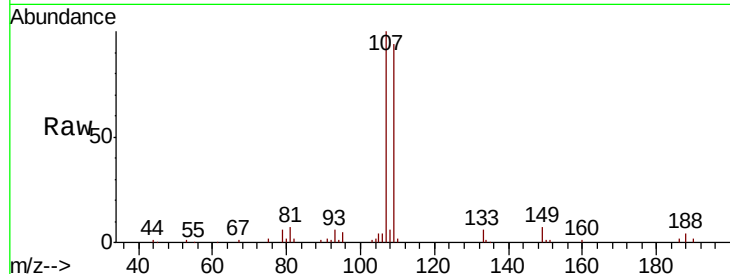




#50  
1,2-Dibromoethane  
Concen: 4.829 ug/L  
RT: 8.92 min Scan# 2359  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

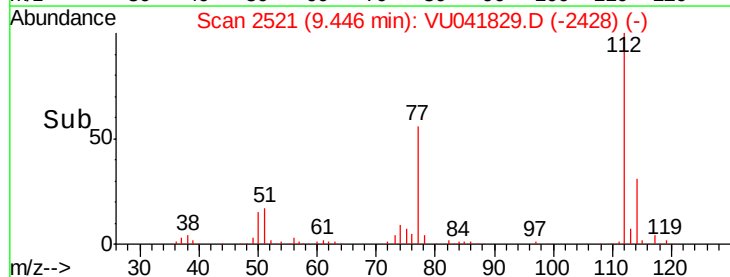
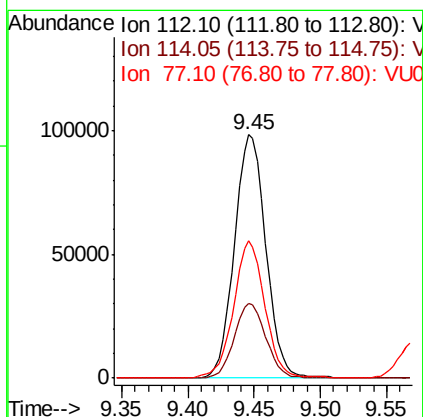
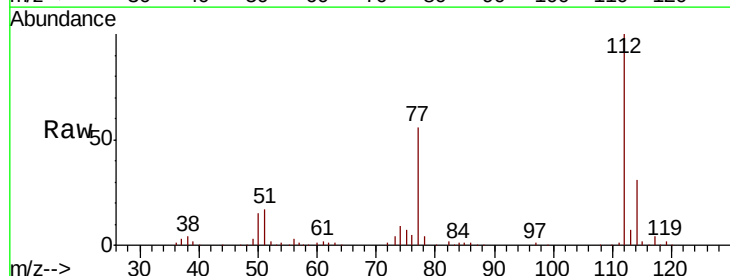
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFB31

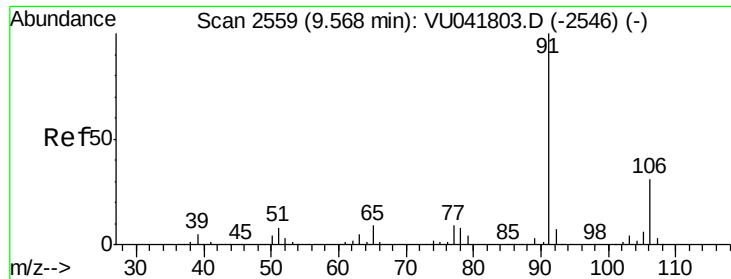
Tot Ion:107 Resp: 45808  
Ion Ratio Lower Upper  
107 100  
109 94.1 65.6 121.8  
188 3.7 2.6 4.0



#51  
Chlorobenzene  
Concen: 4.981 ug/L  
RT: 9.45 min Scan# 2521  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Tgt Ion:112 Resp: 162070  
Ion Ratio Lower Upper  
112 100  
114 30.9 22.7 42.3  
77 56.2 49.1 73.7





#52

Ethylbenzene

Concen: 4.671 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

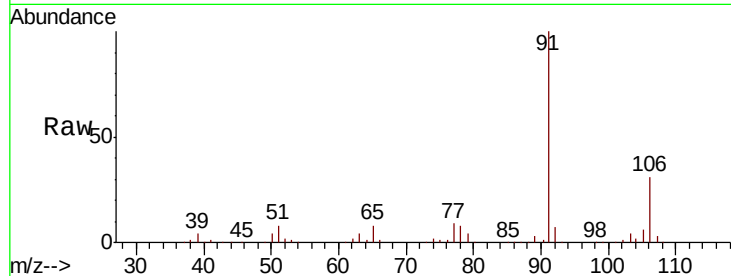
BFB31

Tot Ion: 91 Resp: 260358

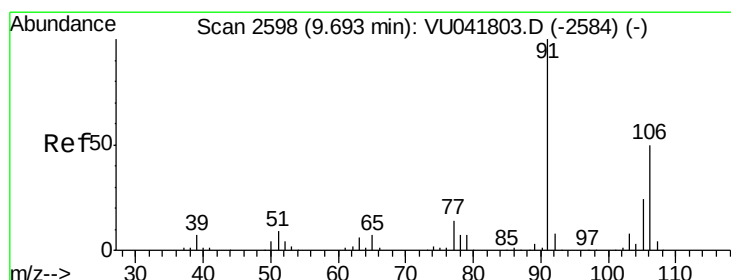
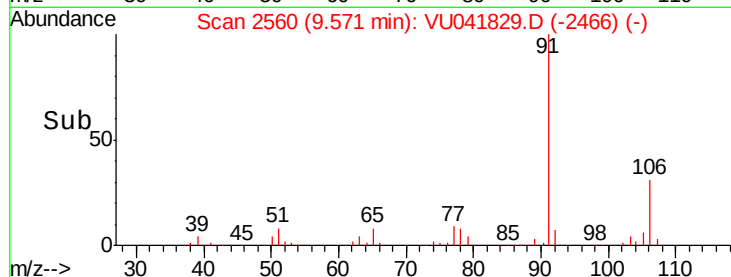
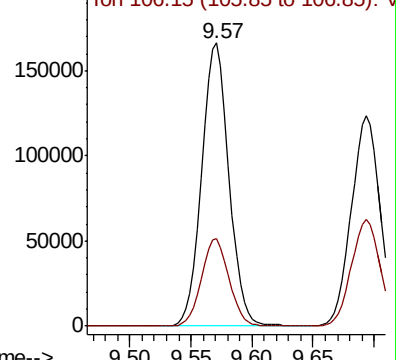
Ion Ratio Lower Upper

91 100

106 30.8 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU041829.D (-2546) (-)



#53

m,p-Xylene

Concen: 4.987 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041829.D

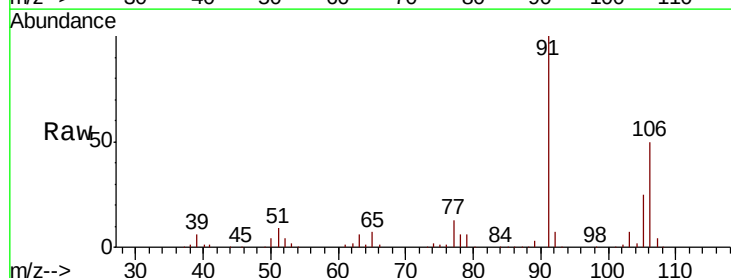
Acq: 29 Dec 2020 10:49

Tgt Ion: 106 Resp: 103668

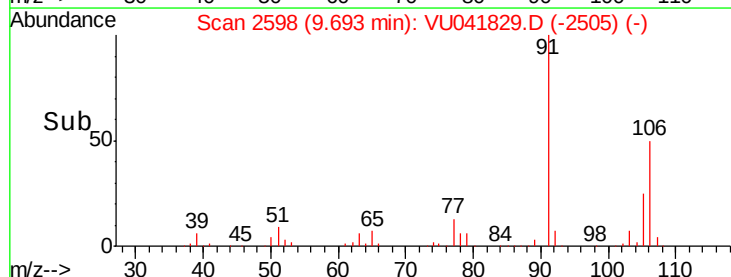
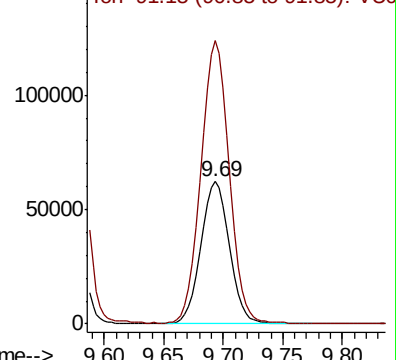
Ion Ratio Lower Upper

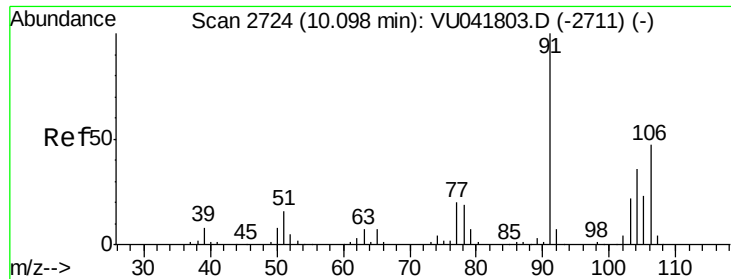
106 100

91 198.6 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU041829.D (-2584) (-)

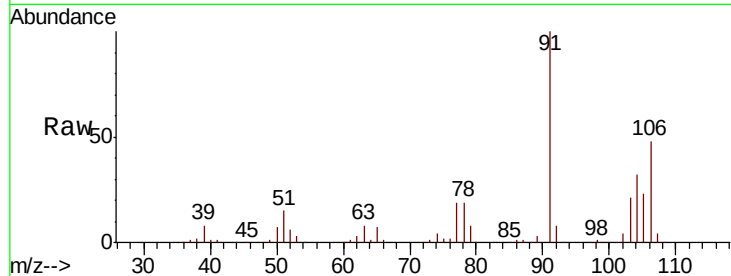




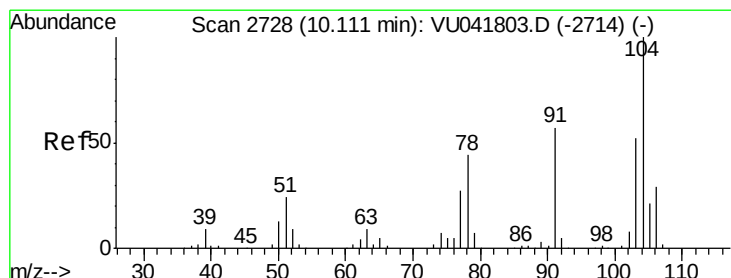
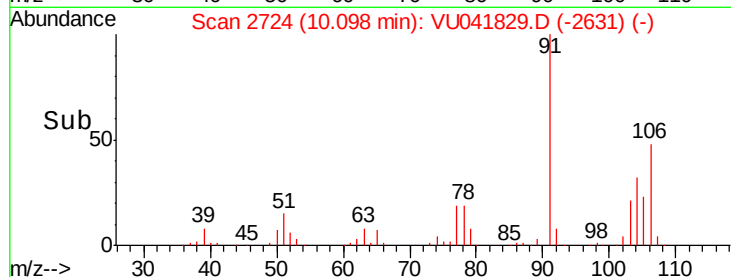
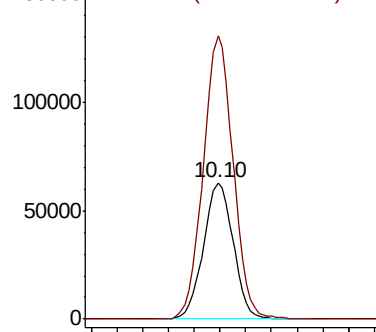
#54  
o-Xylene  
Concen: 4.963 ug/L  
RT: 10.10 min Scan# 2724  
Delta R.T. -0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

Instrument :  
MSVOA\_U  
ClientSampled :  
BFB31

Tot Ion:106 Resp: 101060  
Ion Ratio Lower Upper  
106 100  
91 207.3 151.3 281.1

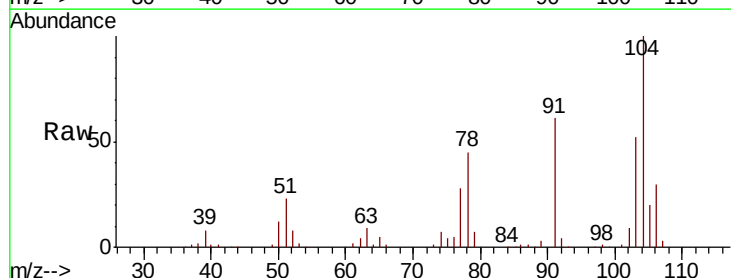


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

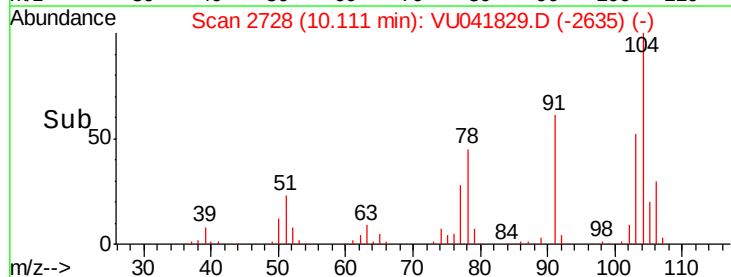
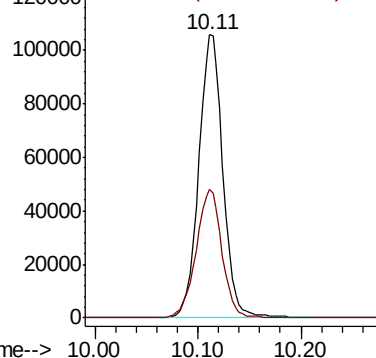


#55  
Styrene  
Concen: 4.900 ug/L  
RT: 10.11 min Scan# 2728  
Delta R.T. 0.00 min  
Lab File: VU041829.D  
Acq: 29 Dec 2020 10:49

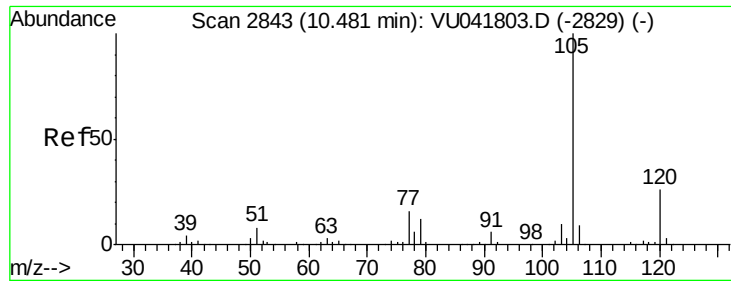
Tgt Ion:104 Resp: 172357  
Ion Ratio Lower Upper  
104 100  
78 45.3 31.1 57.9



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0







#56

Isopropylbenzene

Concen: 4.880 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampleId :

BFB31

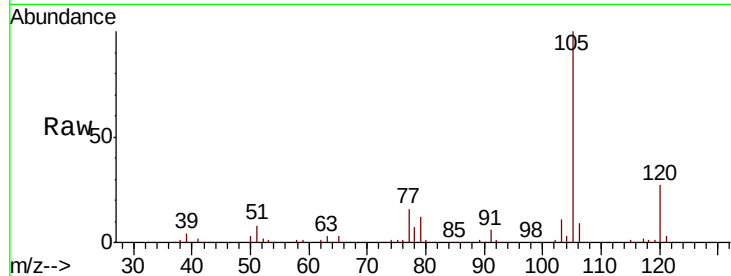
Tot Ion:105 Resp: 264440

Ion Ratio Lower Upper

105 100

120 26.7 20.5 30.7

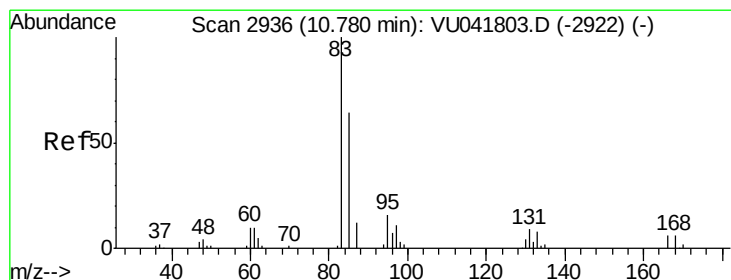
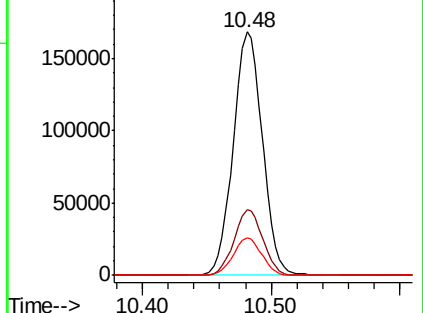
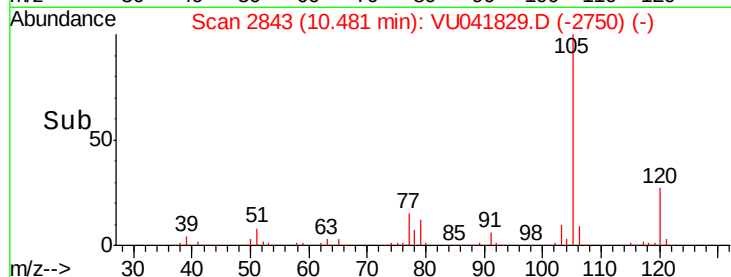
77 15.1 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.469 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

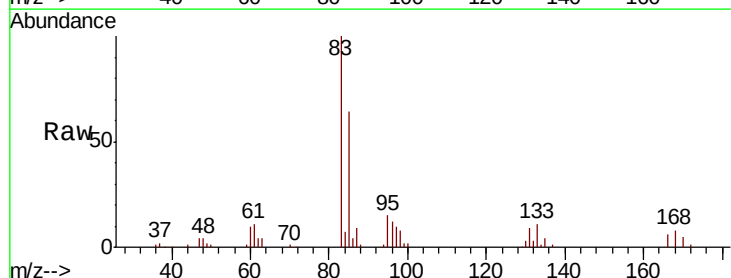
Tgt Ion: 83 Resp: 59640

Ion Ratio Lower Upper

83 100

85 64.2 46.1 85.7

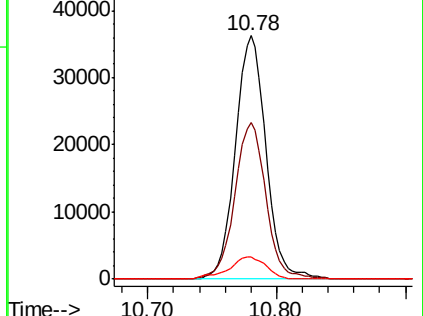
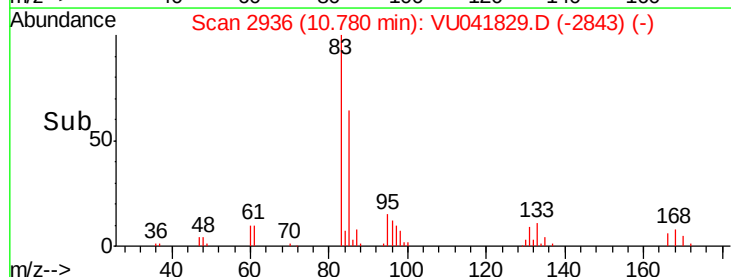
131 9.0 7.8 11.6

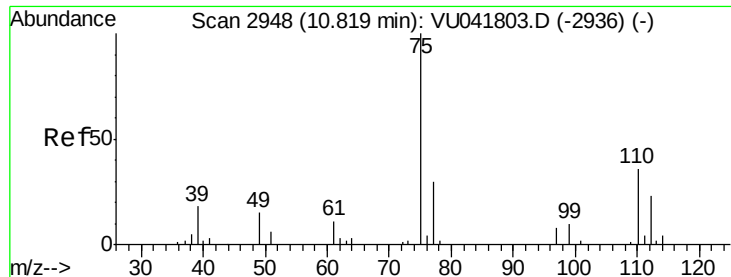


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

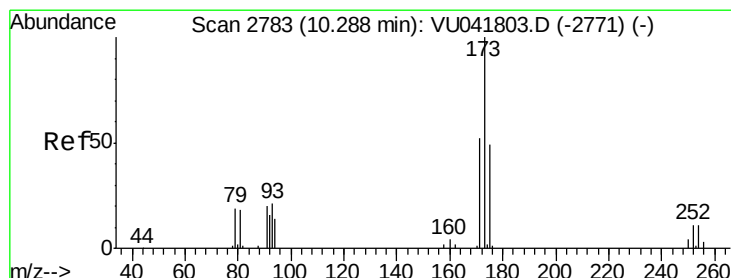
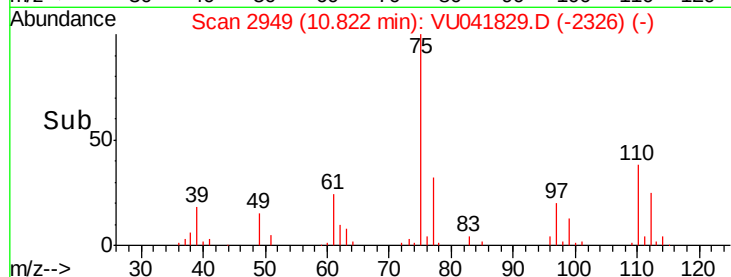
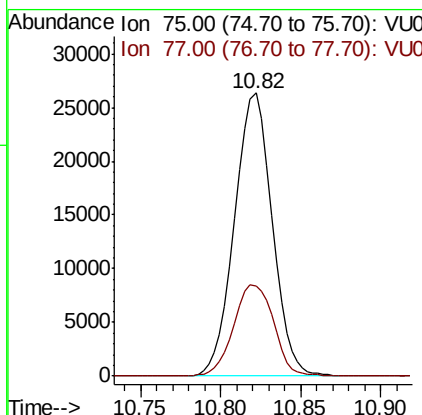
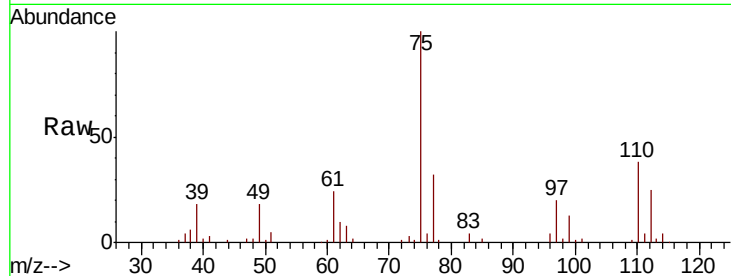




#59  
 1,2,3-Trichloropropane  
 Concen: 4.344 ug/L  
 RT: 10.82 min Scan# 2949  
 Delta R.T. 0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

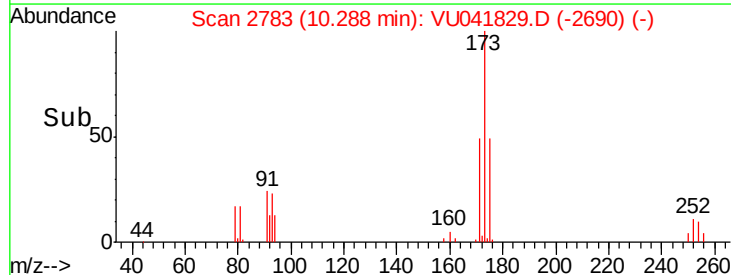
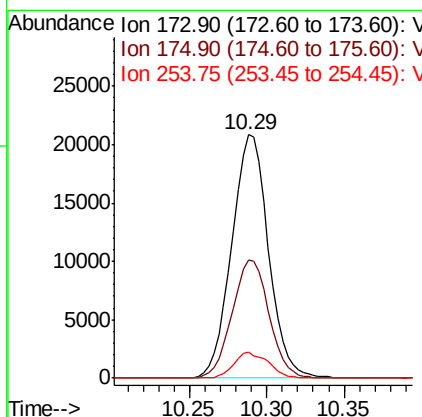
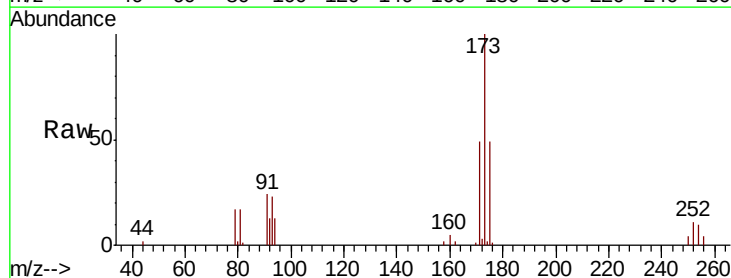
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB31

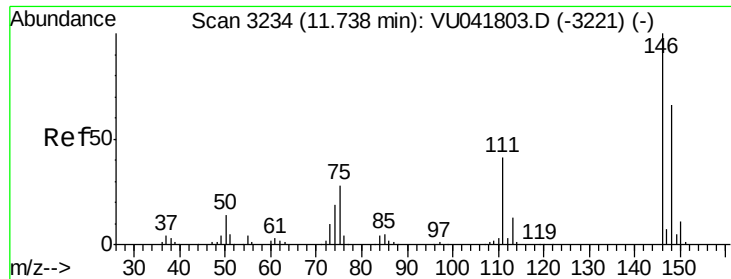
Tot Ion: 75 Resp: 42309  
 Ion Ratio Lower Upper  
 75 100  
 77 34.4 26.2 39.2



#61  
 Bromoform  
 Concen: 5.427 ug/L  
 RT: 10.29 min Scan# 2783  
 Delta R.T. -0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

Tgt Ion: 173 Resp: 34345  
 Ion Ratio Lower Upper  
 173 100  
 175 48.6 37.3 55.9  
 254 9.9 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 4.968 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampled :

BFB31

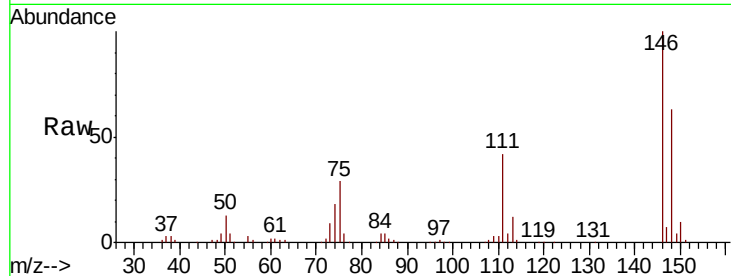
Tot Ion:146 Resp: 127214

Ion Ratio Lower Upper

146 100

111 41.6 30.0 55.8

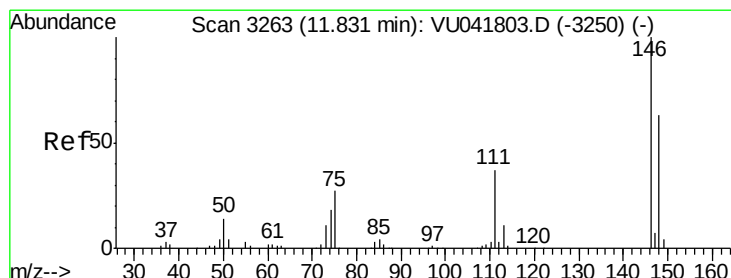
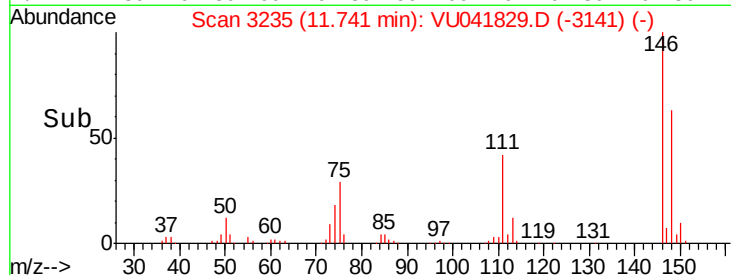
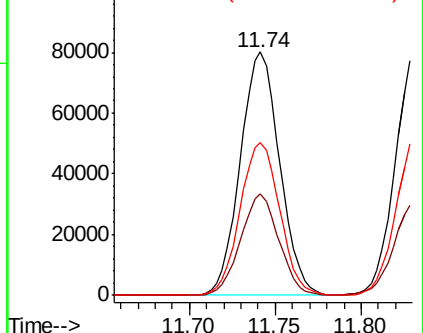
148 62.7 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.990 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

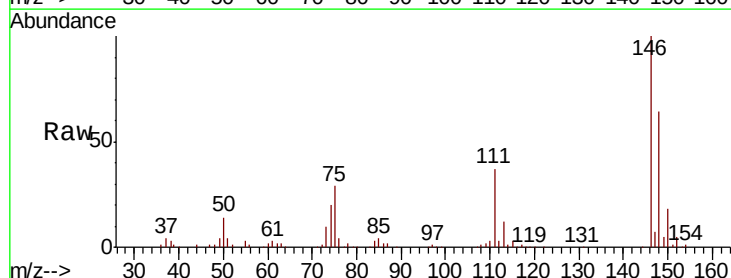
Tgt Ion:146 Resp: 128460

Ion Ratio Lower Upper

146 100

111 37.4 27.9 51.9

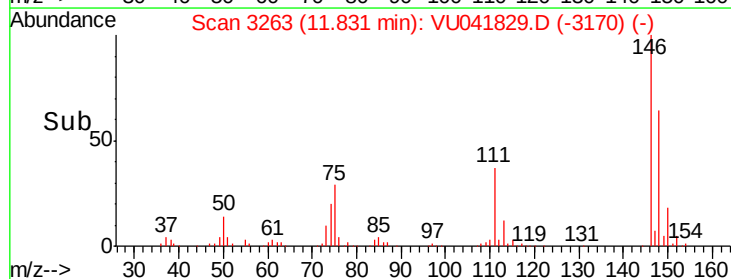
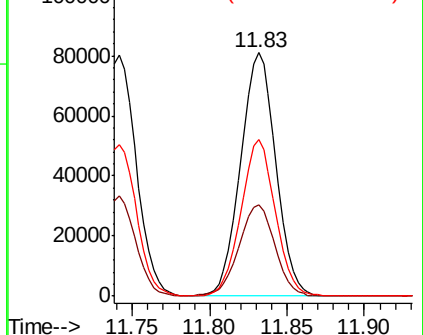
148 64.5 45.0 83.6

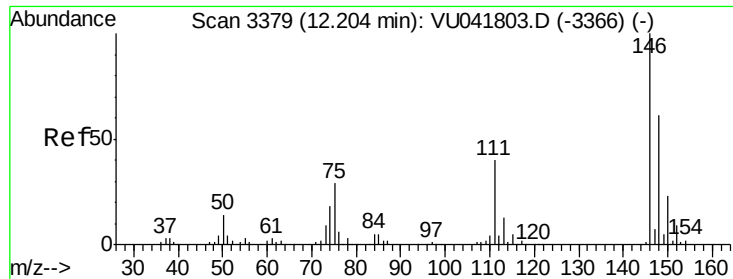


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.937 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampled :

BFB31

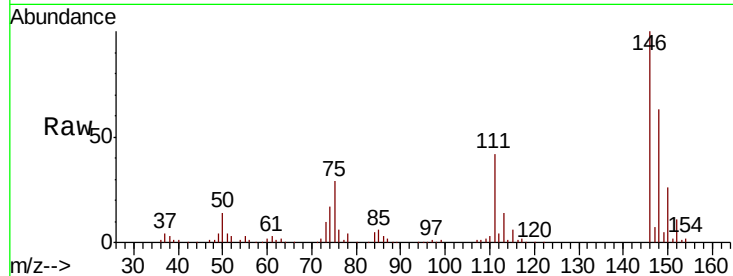
Tot Ion:146 Resp: 123778

Ion Ratio Lower Upper

146 100

111 41.8 35.0 52.6

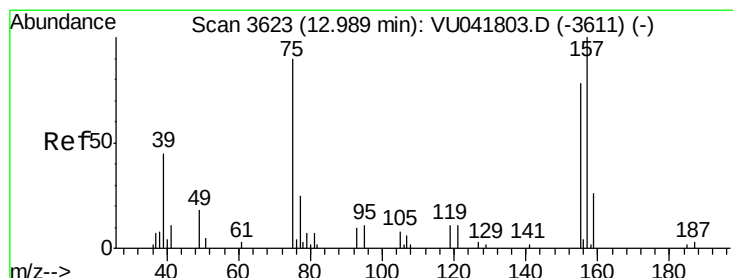
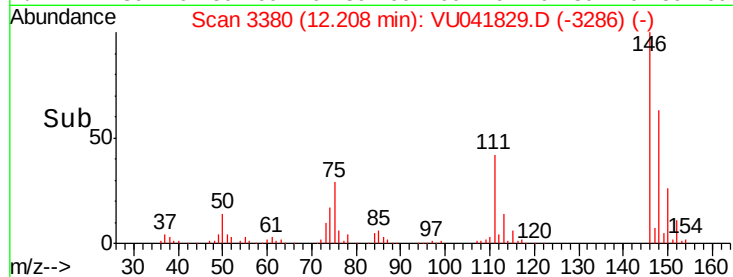
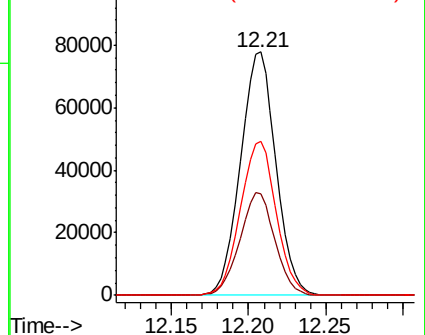
148 63.4 51.0 76.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.227 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

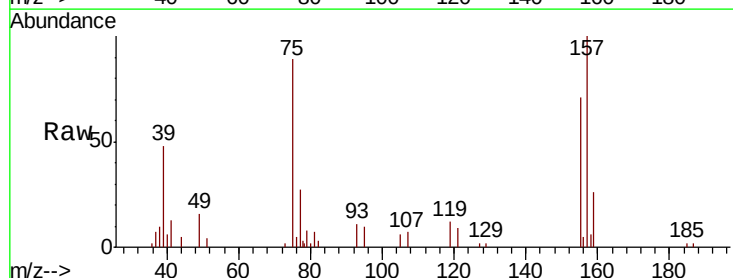
Tgt Ion: 75 Resp: 9940

Ion Ratio Lower Upper

75 100

155 80.1 57.4 86.0

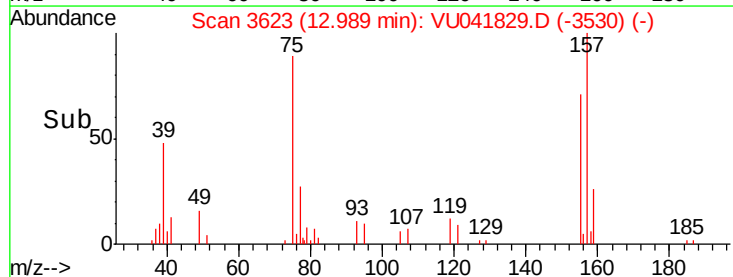
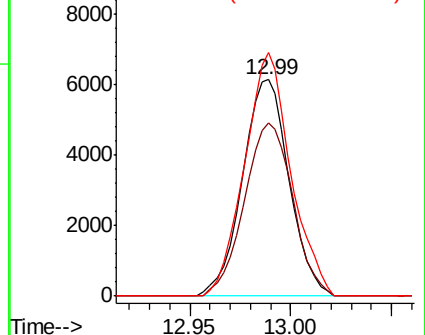
157 112.5 72.4 108.6#

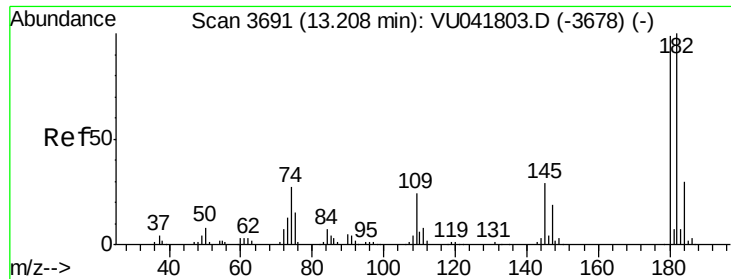


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

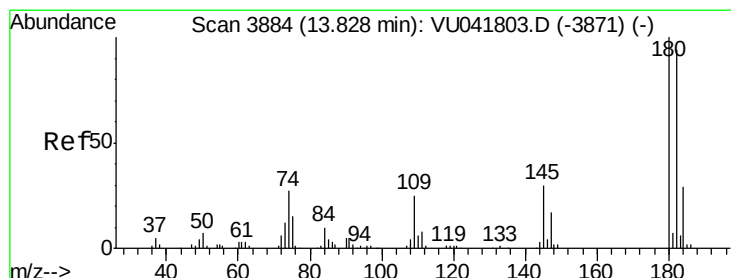
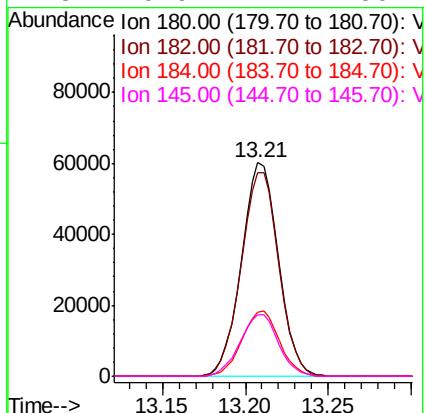
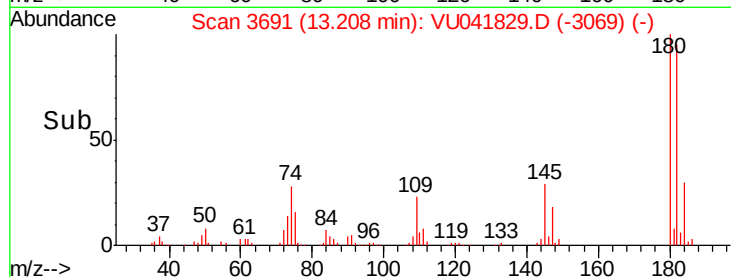
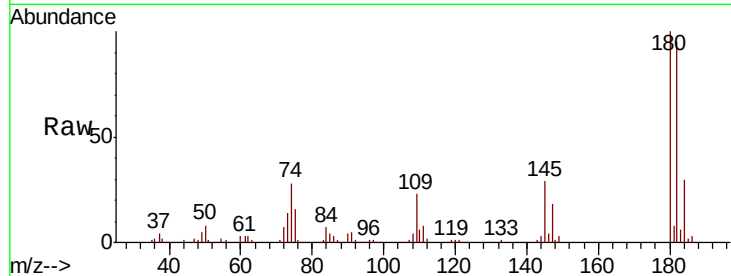




#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.806 ug/L  
 RT: 13.21 min Scan# 3691  
 Delta R.T. -0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

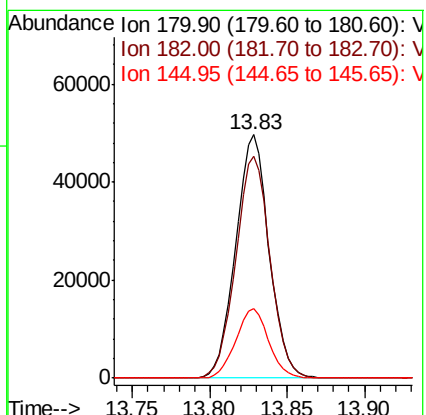
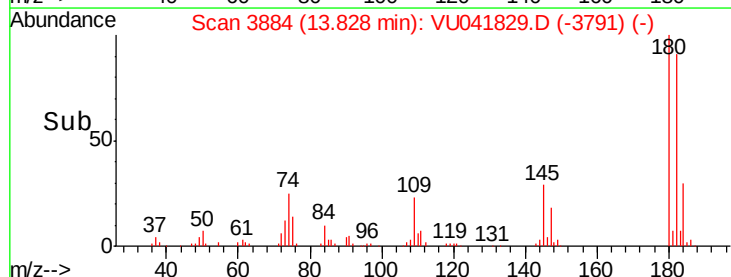
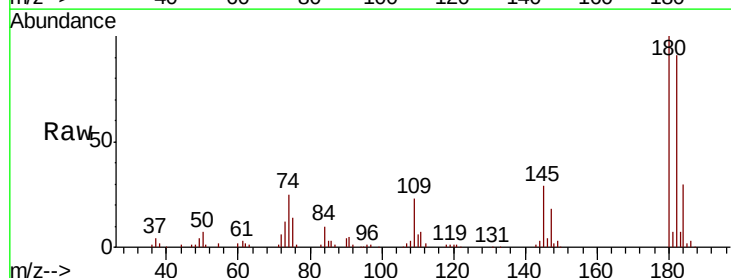
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFB31

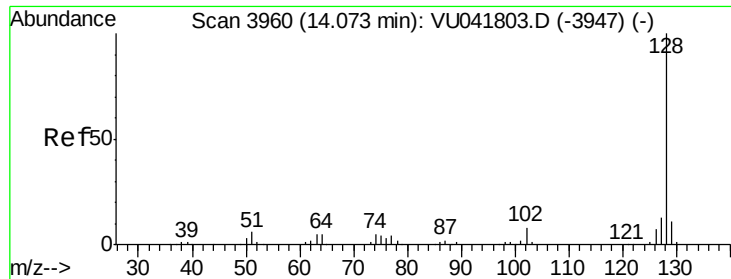
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.9  | 76.3  | 114.5 |
| 184     | 30.7  | 24.1  | 36.1  |
| 145     | 29.9  | 24.1  | 36.1  |



#68  
 1,2,4-trichlorobenzene  
 Concen: 4.554 ug/L  
 RT: 13.83 min Scan# 3884  
 Delta R.T. 0.00 min  
 Lab File: VU041829.D  
 Acq: 29 Dec 2020 10:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.2  | 75.4  | 113.0 |
| 145     | 28.0  | 24.5  | 36.7  |





#69

Naphthalene

Concen: 3.742 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

Instrument :

MSVOA\_U

ClientSampled :

BFB31

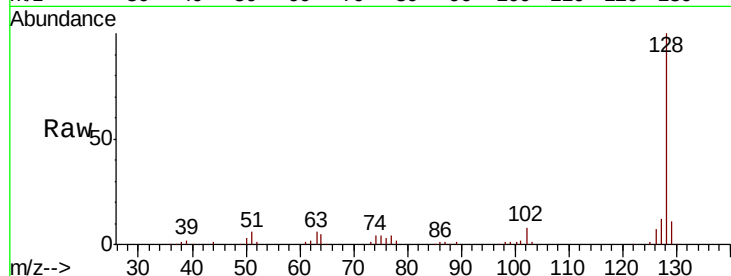
Tot Ion:128 Resp: 126344

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 12.4 10.2 15.4

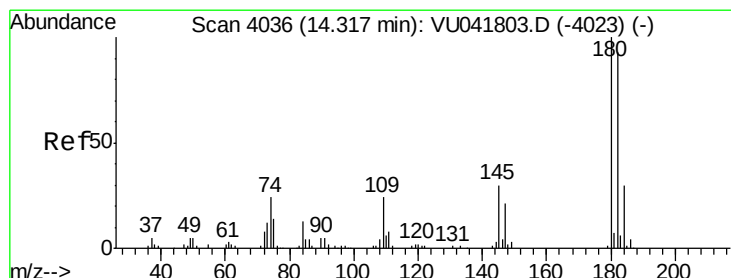
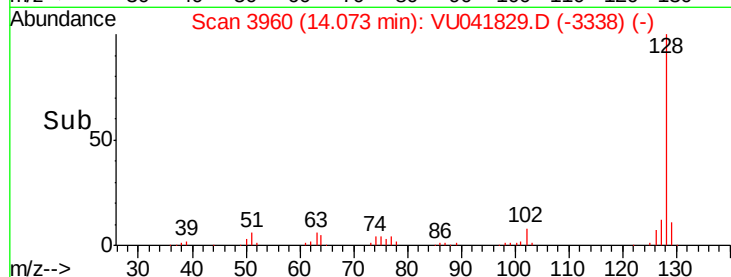
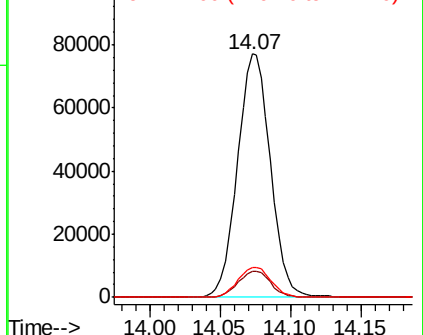


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.522 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU041829.D

Acq: 29 Dec 2020 10:49

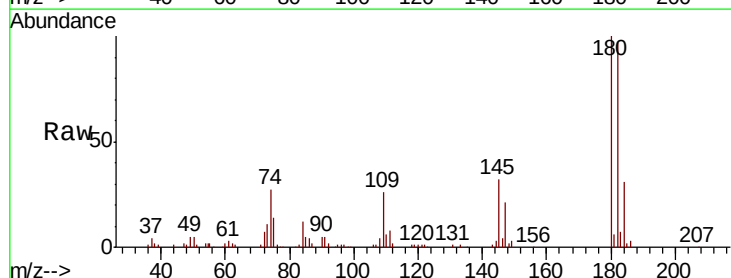
Tgt Ion:180 Resp: 70303

Ion Ratio Lower Upper

180 100

182 93.7 77.0 115.4

145 31.1 26.4 39.6



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

