

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121620\  
 Data File : VU041660.D  
 Acq On : 16 Dec 2020 10:43  
 Operator : SY/MD  
 Sample : VSTD20035  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 17 02:46:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM121620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 17 02:44:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 288801   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 259152   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 139136   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.60  | 65  | 418578  | 178.22 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.92  | 69  | 351337  | 194.70 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.58  | 63  | 769000  | 171.04 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.65  | 46  | 691811  | 356.41 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.08  | 84  | 753123  | 180.57 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.72  | 65  | 474517  | 163.30 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.74  | 84  | 1519873 | 206.48 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.70  | 67  | 483774  | 196.49 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.91  | 98  | 1529785 | 227.31 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.19  | 79  | 264568  | 210.59 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.65  | 63  | 596749  | 528.61 | ug/L | 0.00 |
| 56) 1,1,2,2-Tetrachloroethane- | 10.76 | 84  | 762295  | 217.41 | ug/L | 0.00 |
| 66) 1,2-Dichlorobenzene-d4     | 12.19 | 152 | 588676  | 216.91 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |              | Qvalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 427593  | 203.620 ug/L | 99     |
| 3) Chloromethane               | 1.53 | 50  | 387291  | 160.959 ug/L | 100    |
| 5) Vinyl chloride              | 1.61 | 62  | 445078  | 182.506 ug/L | 99     |
| 6) Bromomethane                | 1.86 | 94  | 345764  | 247.055 ug/L | 100    |
| 8) Chloroethane                | 1.94 | 64  | 295376  | 185.375 ug/L | 97     |
| 9) Trichlorofluoromethane      | 2.14 | 101 | 669527  | 194.063 ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 367773  | 172.057 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 359482  | 179.687 ug/L | 98     |
| 13) Acetone                    | 2.65 | 43  | 467561  | 240.312 ug/L | 99     |
| 14) Carbon disulfide           | 2.80 | 76  | 1140865 | 179.507 ug/L | 100    |
| 15) Methyl Acetate             | 2.96 | 43  | 446042  | 147.650 ug/L | 100    |
| 16) Methylene chloride         | 3.06 | 84  | 397141  | 169.089 ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96  | 373476  | 180.907 ug/L | 97     |
| 18) Methyl tert-butyl Ether    | 3.38 | 73  | 1201136 | 179.437 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 675694  | 159.847 ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 4.68 | 96  | 416393  | 184.148 ug/L | 97     |
| 22) 2-Butanone                 | 4.72 | 43  | 704577  | 299.611 ug/L | 100    |
| 23) Bromochloromethane         | 4.99 | 128 | 215616  | 180.499 ug/L | 99     |
| 25) Chloroform                 | 5.11 | 83  | 700898  | 163.233 ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.81 | 62  | 545930  | 151.188 ug/L | 98     |
| 29) Cyclohexane                | 5.40 | 56  | 632138  | 183.914 ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 5.33 | 97  | 619400  | 185.906 ug/L | 100    |
| 31) Carbon tetrachloride       | 5.54 | 117 | 542019  | 187.402 ug/L | 100    |
| 33) Benzene                    | 5.79 | 78  | 1589189 | 188.617 ug/L | 100    |
| 34) Trichloroethene            | 6.55 | 95  | 429786  | 197.043 ug/L | 98     |
| 35) Methylcyclohexane          | 6.77 | 83  | 717440  | 213.737 ug/L | 98     |
| 37) 1,2-Dichloropropane        | 6.80 | 63  | 407545  | 174.243 ug/L | 100    |
| 38) Bromodichloromethane       | 7.11 | 83  | 553655  | 185.400 ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.62 | 75  | 695502  | 203.942 ug/L | 97     |
| 40) 4-Methyl-2-pentanone       | 7.80 | 43  | 1267656 | 344.903 ug/L | 99     |

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 Sample : VSTD20035  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 17 02:46:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMULM121620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Dec 17 02:44:17 2020  
 Response via : Initial Calibration

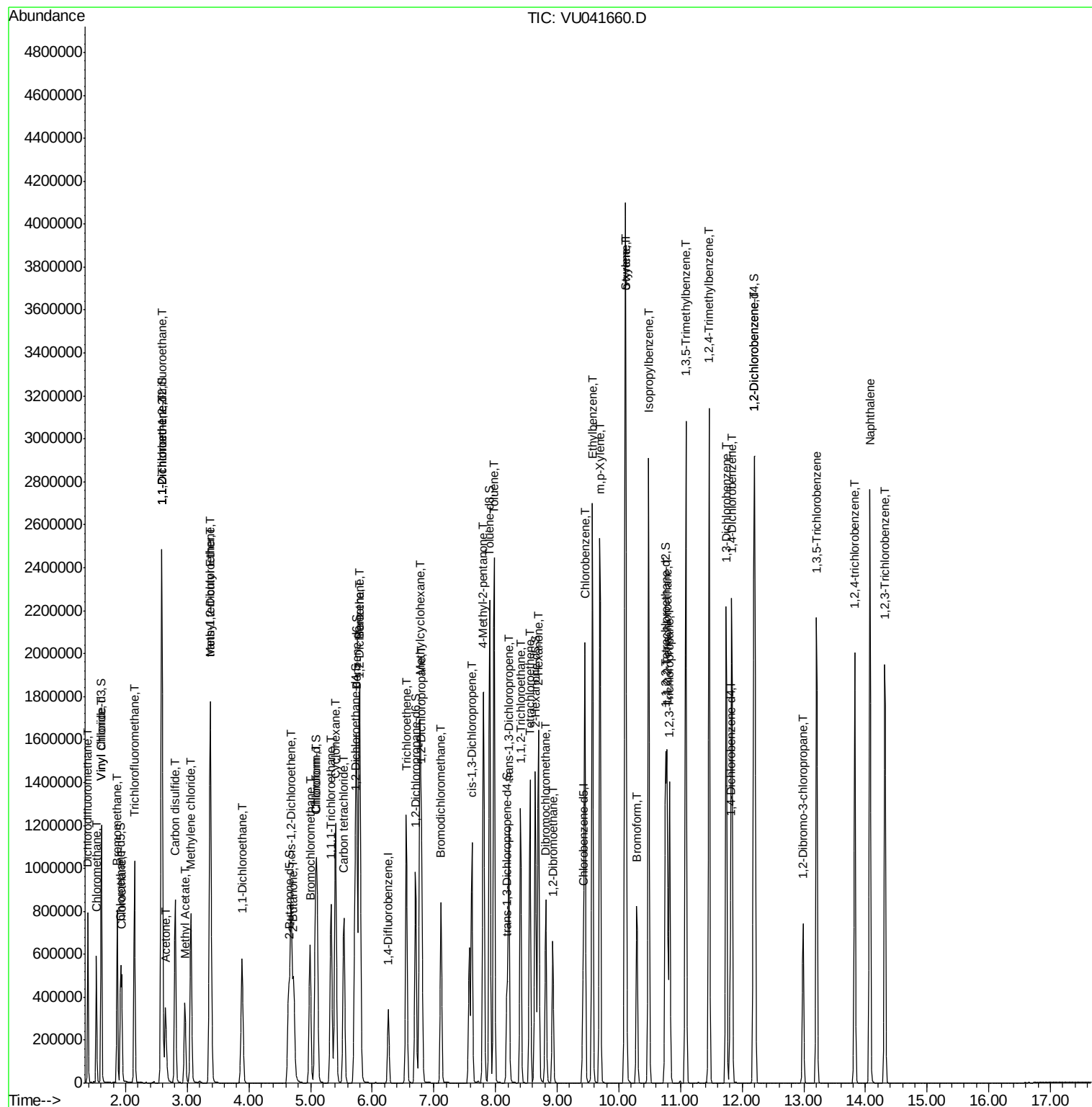
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.98  | 91   | 1794710  | 208.075 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.21  | 75   | 679551   | 197.638 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.41  | 97   | 415319   | 199.198 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.56  | 164  | 318595   | 202.392 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.70  | 43   | 1058678  | 359.895 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.82  | 129  | 453624   | 198.842 | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 435852   | 195.920 | ug/L  | 99       |
| 51) Chlorobenzene              | 9.45  | 112  | 1101458  | 194.608 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.57  | 91   | 1908159  | 201.383 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.69  | 106  | 731426   | 210.171 | ug/L  | 98       |
| 54) o-xylene                   | 10.10 | 106  | 726813   | 213.579 | ug/L  | 99       |
| 55) Styrene                    | 10.11 | 104  | 1281286  | 221.203 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 743437   | 204.789 | ug/L  | 99       |
| 59) Bromoform                  | 10.29 | 173  | 376931   | 219.365 | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane     | 10.82 | 75   | 610218   | 186.948 | ug/L  | 99       |
| 61) Isopropylbenzene           | 10.48 | 105  | 1926630  | 200.901 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 1689925  | 215.262 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 1741323  | 219.579 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 908317   | 199.241 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 916369   | 195.312 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 12.21 | 146  | 916172   | 200.884 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 196032   | 209.028 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 690770   | 229.476 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 644555   | 250.162 | ug/L  | 99       |
| 71) Naphthalene                | 14.07 | 128  | 2228981  | 277.481 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 615517   | 242.482 | ug/L  | 98       |

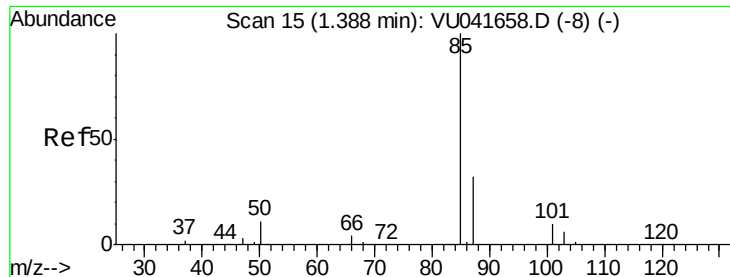
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 17 02:46:46 2020  
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Quant Title : VOC Analysis  
QLast Update : Thu Dec 17 02:44:17 2020  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 203.620 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

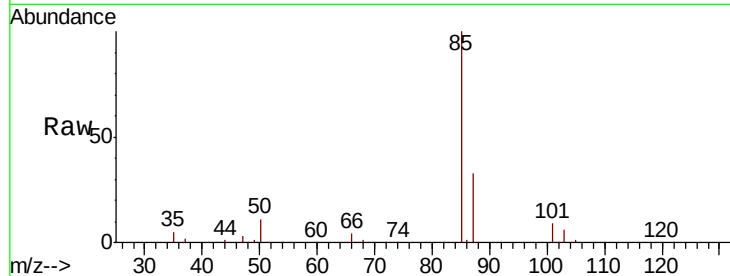
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 85 Resp: 427593

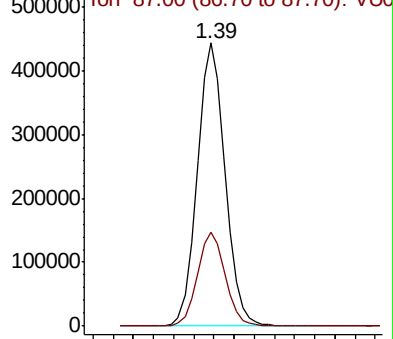
Ion Ratio Lower Upper

85 100

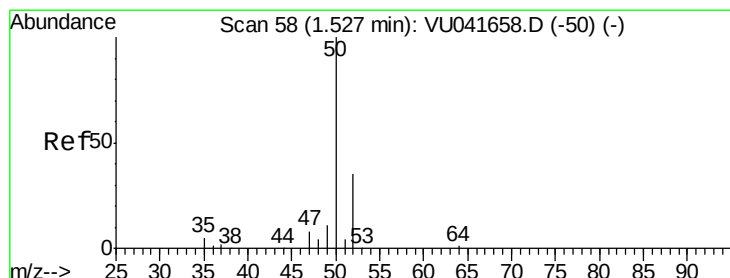
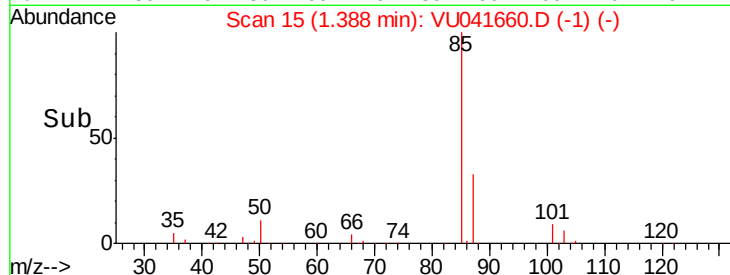
87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU041660.D (-1) (-)



Time-->



#3

Chloromethane

Concen: 160.959 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041660.D

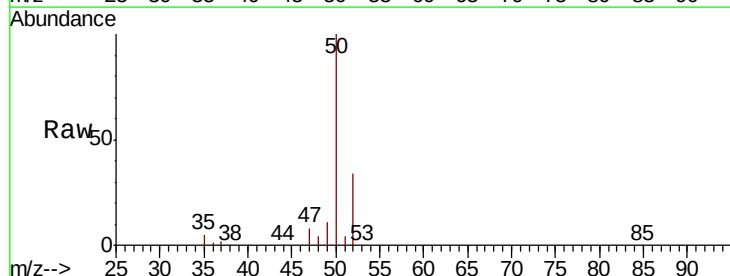
Acq: 16 Dec 2020 10:43

Tgt Ion: 50 Resp: 387291

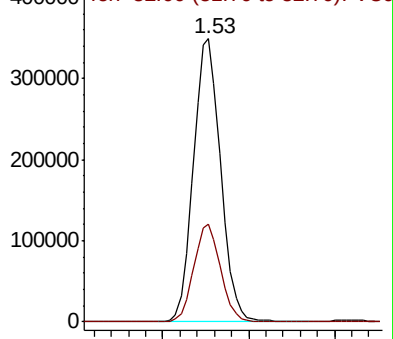
Ion Ratio Lower Upper

50 100

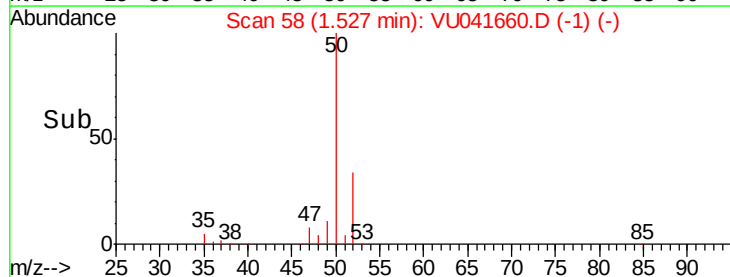
52 34.3 24.1 44.8

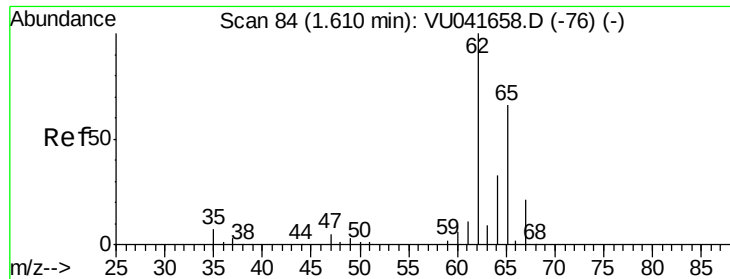


Abundance Ion 50.00 (49.70 to 50.70): VU041660.D (-1) (-)



Time-->





#5

Vinyl chloride

Concen: 182.506 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

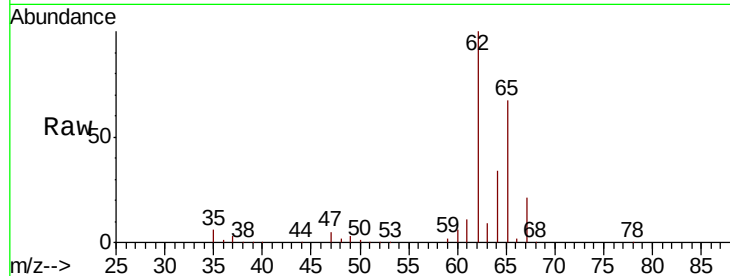
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 62 Resp: 445078

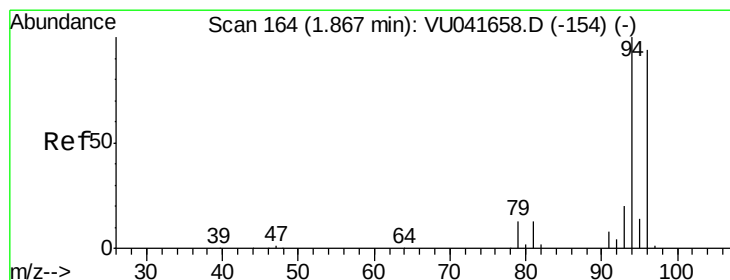
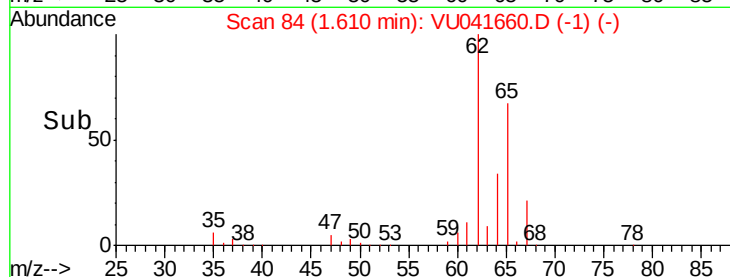
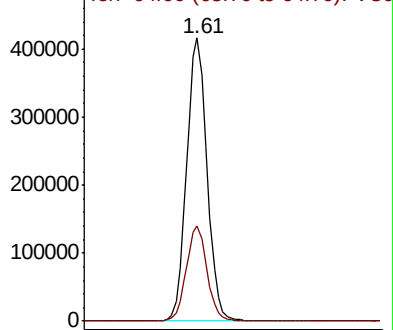
Ion Ratio Lower Upper

62 100

64 33.7 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU041660.D (-1) (-)



#6

Bromomethane

Concen: 247.055 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU041660.D

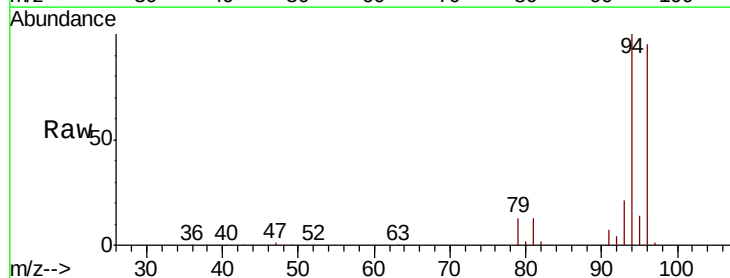
Acq: 16 Dec 2020 10:43

Tgt Ion: 94 Resp: 345764

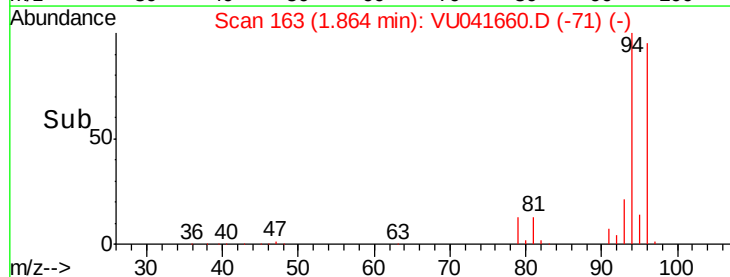
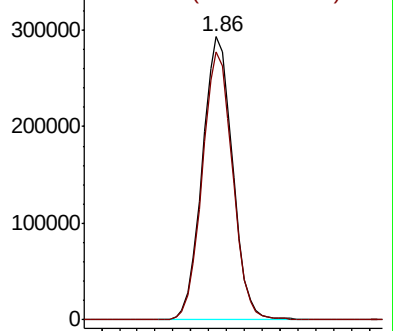
Ion Ratio Lower Upper

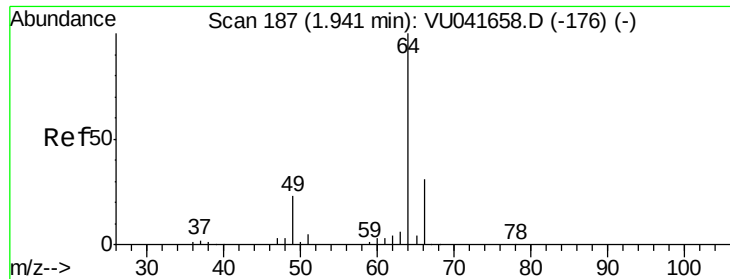
94 100

96 94.8 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU041660.D (-71) (-)





#8

Chloroethane

Concen: 185.375 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

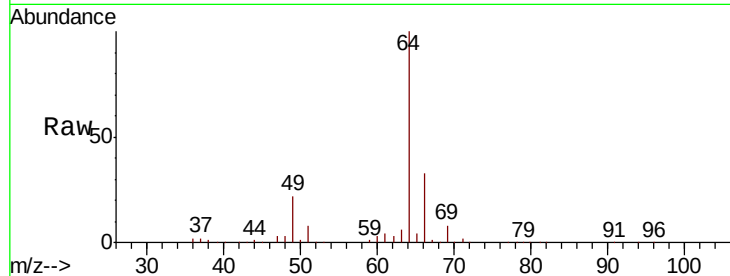
ClientSampleId :

Tot Ion: 64 Resp: 295376

Ion Ratio Lower Upper

64 100

66 32.6 21.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VU041658.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU041658.D (-176) (-)

1.94

250000

200000

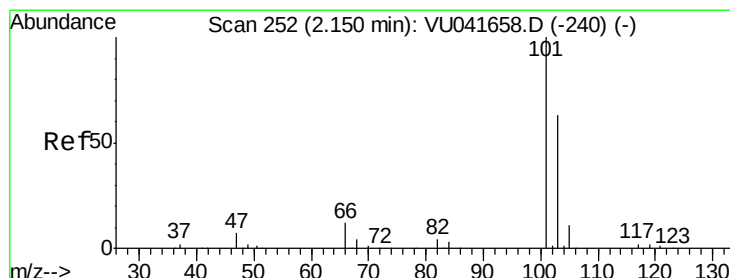
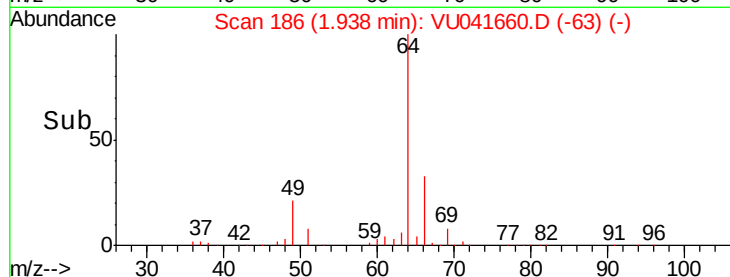
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 194.063 ug/L

RT: 2.14 min Scan# 250

Delta R.T. -0.01 min

Lab File: VU041660.D

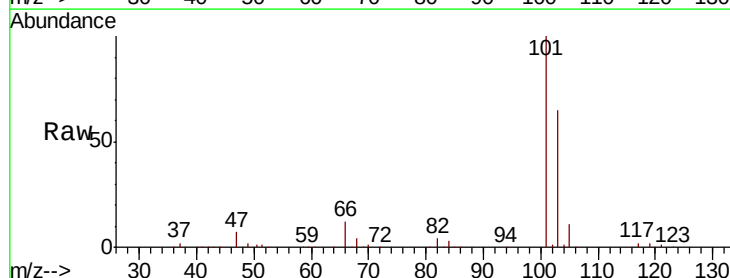
Acq: 16 Dec 2020 10:43

Tgt Ion:101 Resp: 669527

Ion Ratio Lower Upper

101 100

103 64.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU041658.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU041658.D (-240) (-)

2.14

500000

400000

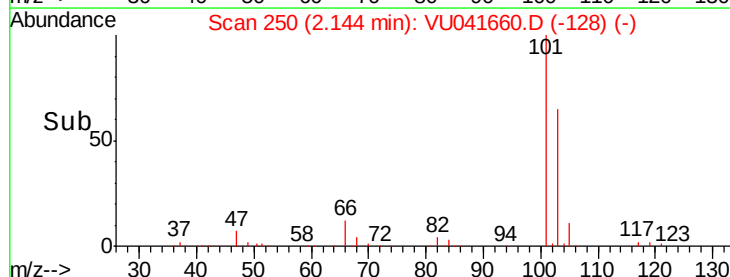
300000

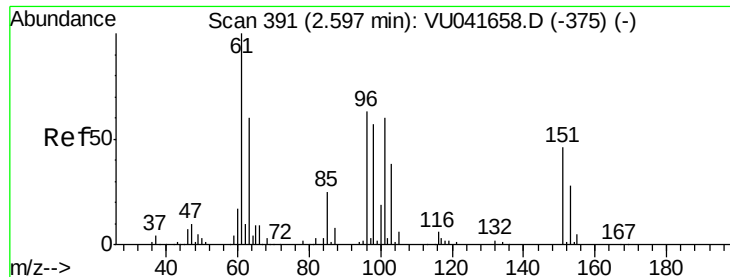
200000

100000

0

Time-->





#10

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

Concen: 172.057 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.01 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

ClientSampleId :

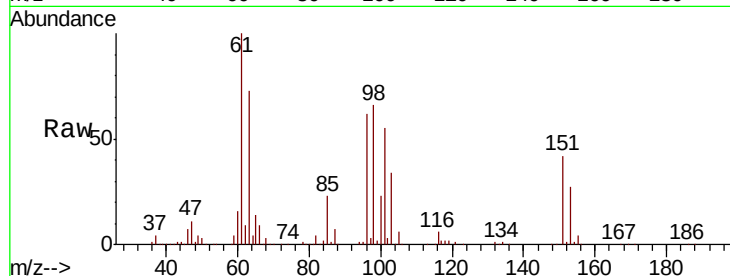
Tot Ion:101 Resp: 367773

Ion Ratio Lower Upper

101 100

85 41.8 32.7 49.1

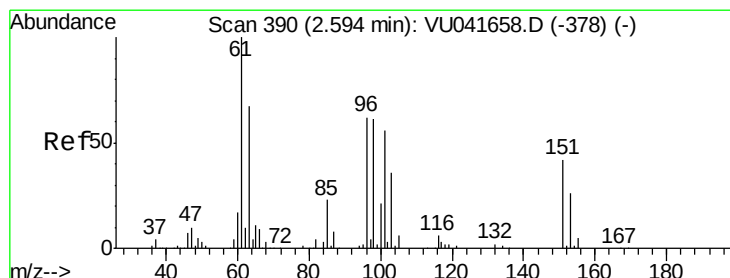
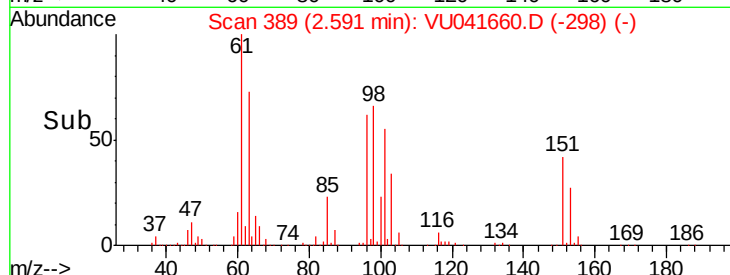
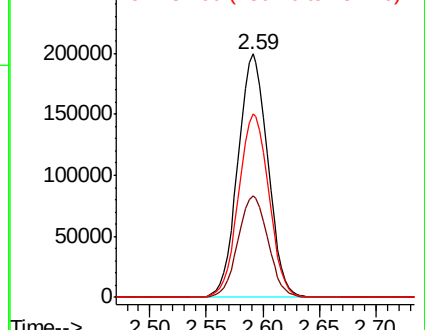
151 76.4 60.4 90.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 179.687 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

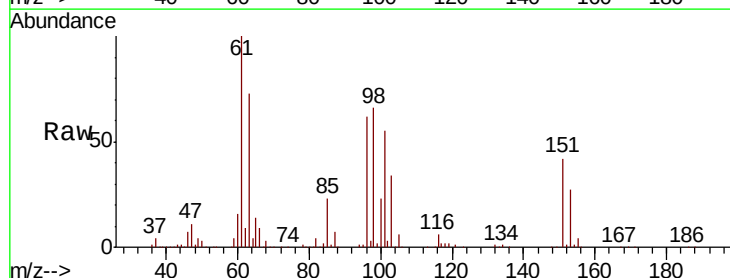
Tgt Ion: 96 Resp: 359482

Ion Ratio Lower Upper

96 100

61 160.8 114.3 212.3

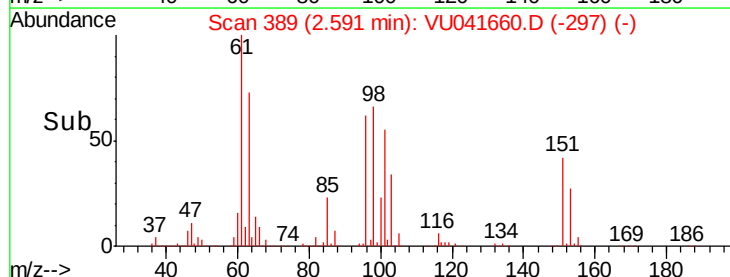
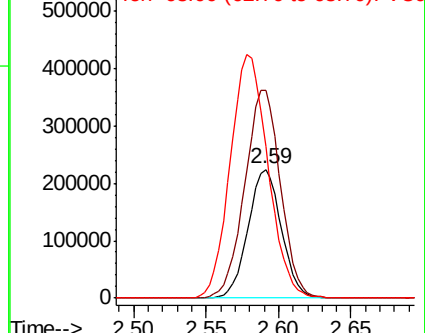
63 117.1 83.0 154.2

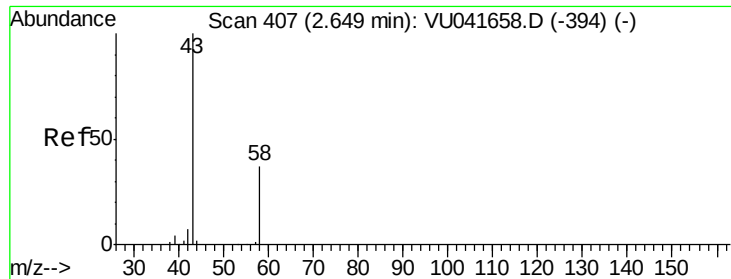


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

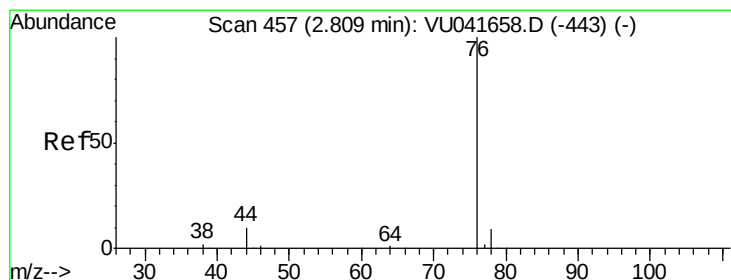
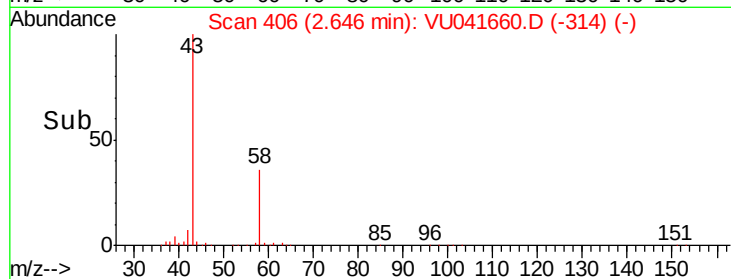
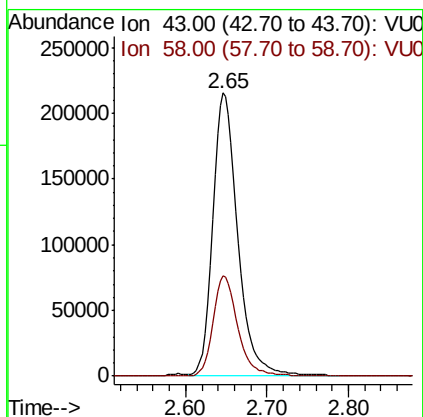
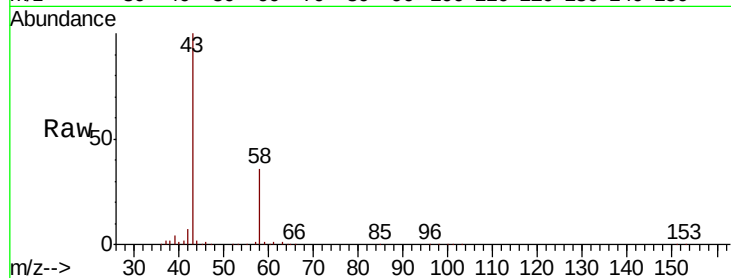




#13  
Acetone  
Concen: 240.312 ug/L  
RT: 2.65 min Scan# 406  
Delta R.T. -0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

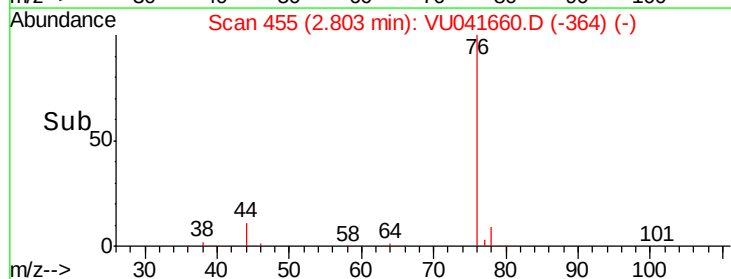
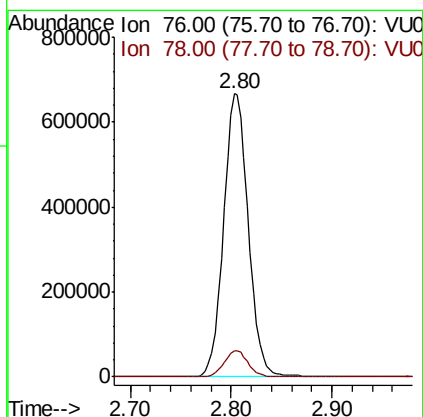
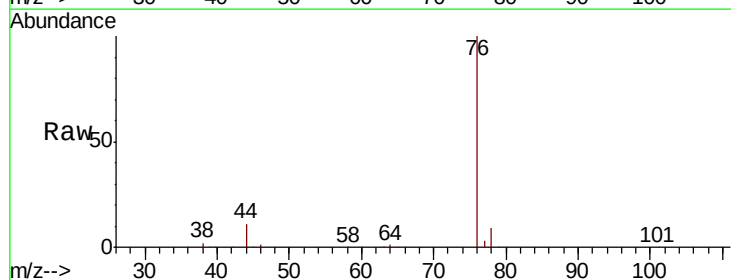
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 467561  
Ion Ratio Lower Upper  
43 100  
58 34.5 0.0 70.8

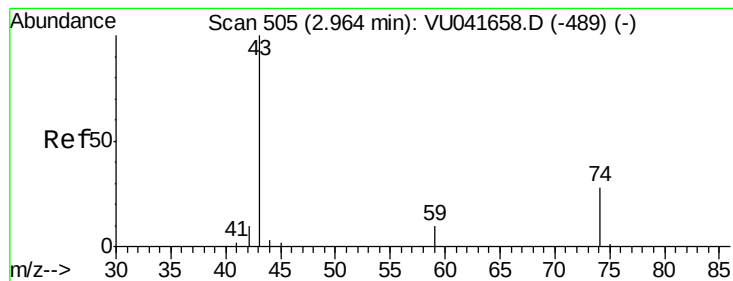


#14  
Carbon disulfide  
Concen: 179.507 ug/L  
RT: 2.80 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 76 Resp: 1140865  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.4 11.2







#15

Methvl Acetate

Concen: 147.650 ug/L

RT: 2.96 min Scan# 504

Delta R.T. -0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

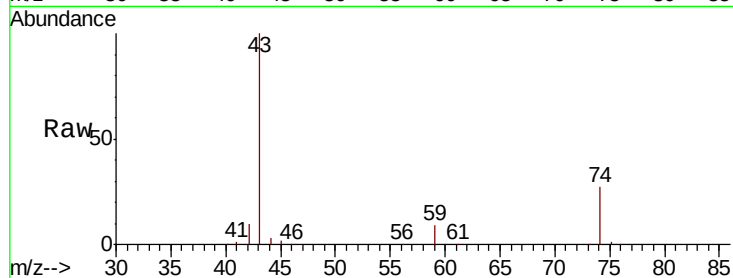
ClientSampleId :

Tot Ion: 43 Resp: 446042

Ion Ratio Lower Upper

43 100

74 27.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VU041660.D (-412) (-)

Ion 74.00 (73.70 to 74.70): VU041660.D (-412) (-)

2.96

250000

200000

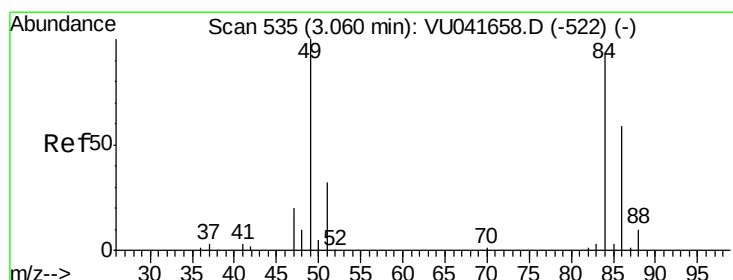
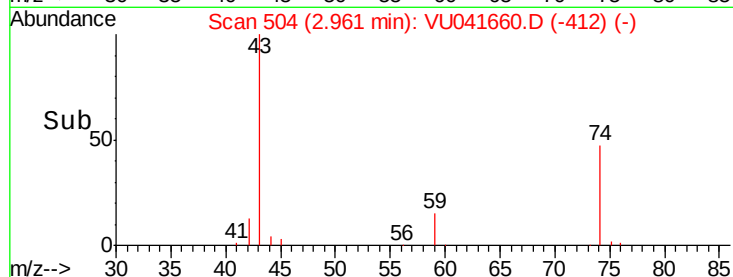
150000

100000

50000

0

Time--> 2.85 2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 169.089 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

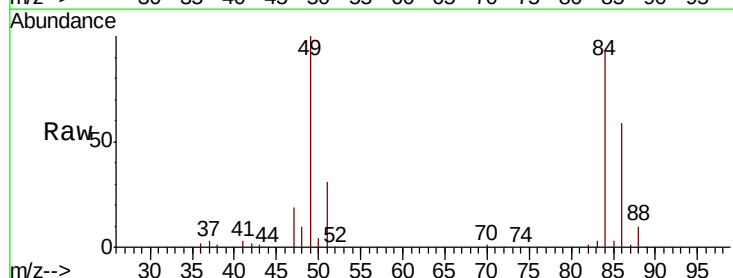
Tgt Ion: 84 Resp: 397141

Ion Ratio Lower Upper

84 100

86 63.8 44.0 81.6

49 107.6 75.0 139.4



Abundance Ion 84.00 (83.70 to 84.70): VU041660.D (-442) (-)

Ion 86.00 (85.70 to 86.70): VU041660.D (-442) (-)

Ion 49.00 (48.70 to 49.70): VU041660.D (-442) (-)

3.06

300000

250000

200000

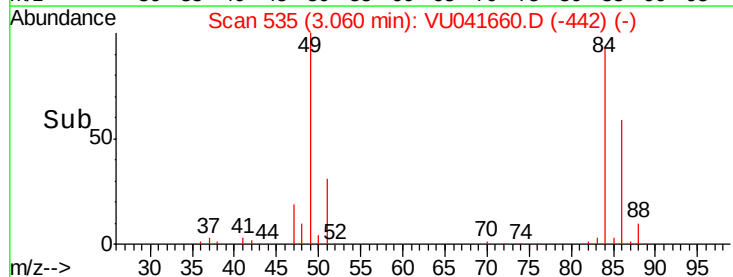
150000

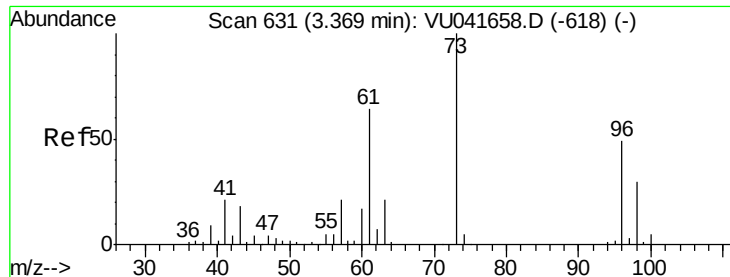
100000

50000

0

Time--> 3.00 3.05 3.10 3.15

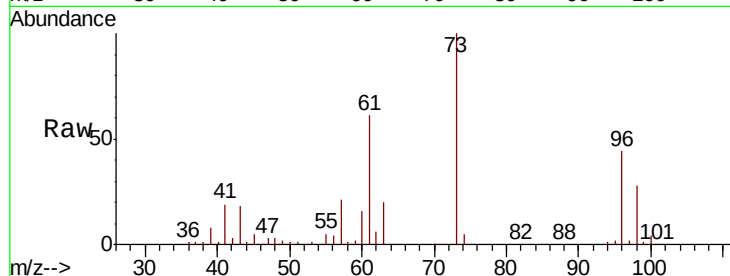




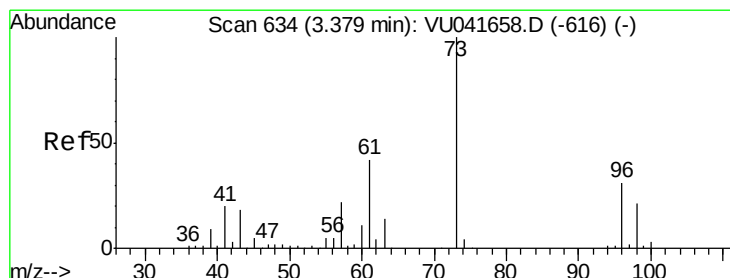
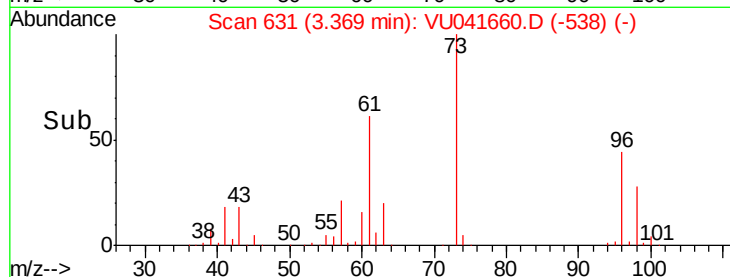
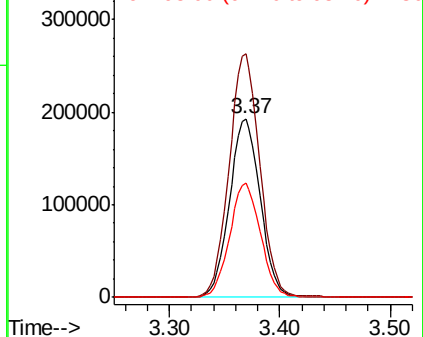
#17  
trans-1,2-Dichloroethene  
Concen: 180.907 ug/L  
RT: 3.37 min Scan# 631  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 96 Resp: 373476  
Ion Ratio Lower Upper  
96 100  
61 136.4 92.6 172.0  
98 63.8 43.5 80.9

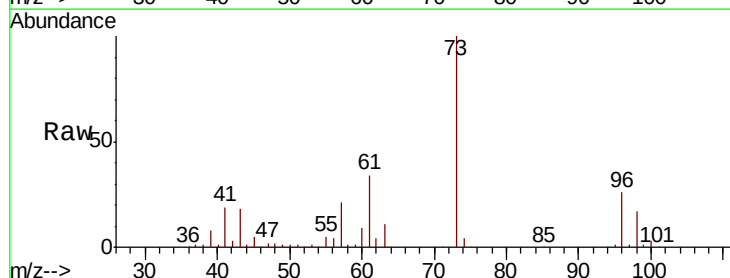


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

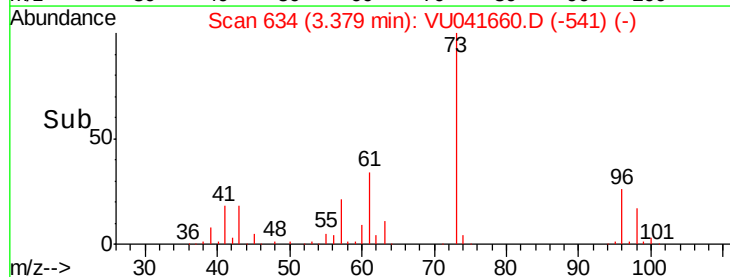
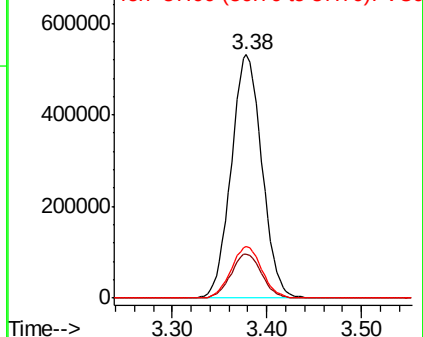


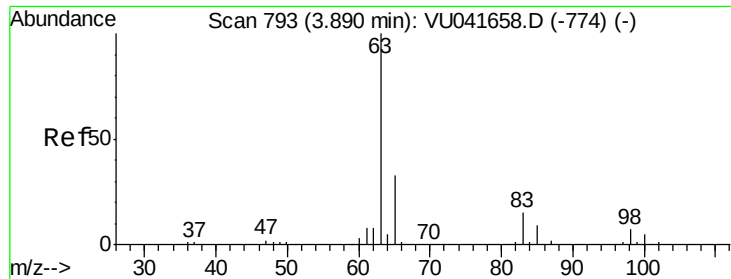
#18  
Methyl tert-butyl Ether  
Concen: 179.437 ug/L  
RT: 3.38 min Scan# 634  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 73 Resp: 1201136  
Ion Ratio Lower Upper  
73 100  
43 18.0 14.8 22.2  
57 21.1 17.0 25.6



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

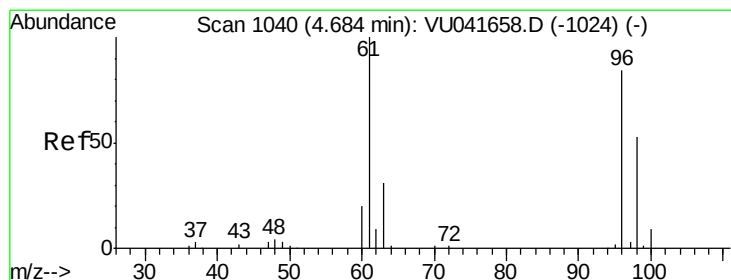
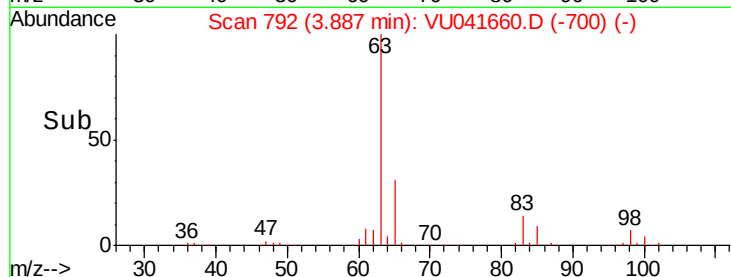
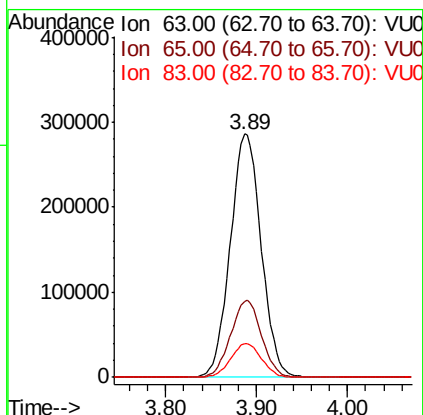
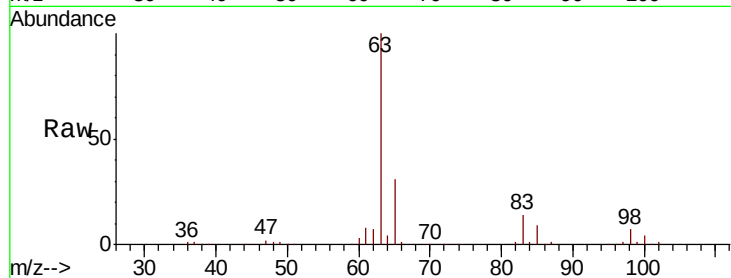




#19  
 1,1-Dichloroethane  
 Concen: 159.847 ug/L  
 RT: 3.89 min Scan# 792  
 Delta R.T. -0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

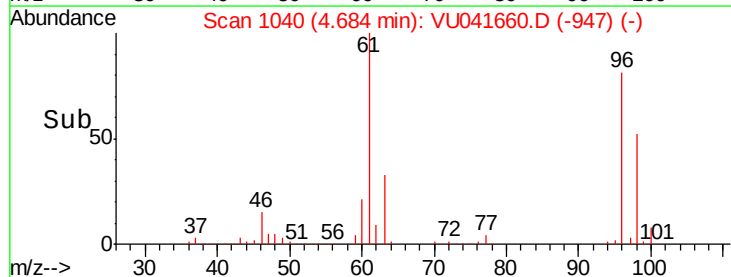
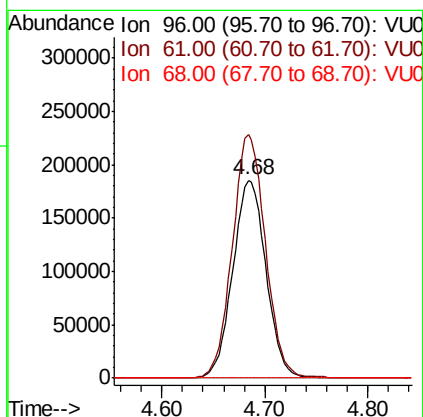
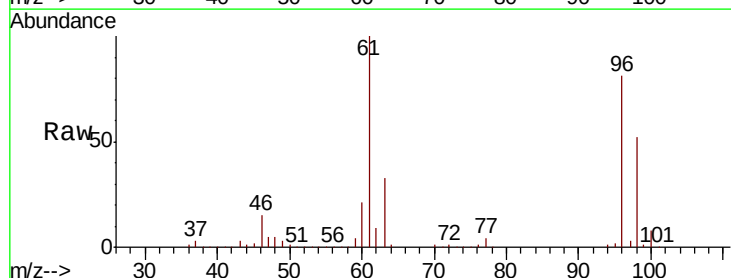
Instrument :  
 MSVOA\_U  
 ClientSampleId :

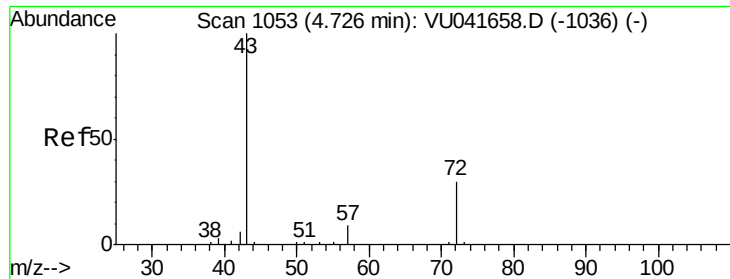
Tot Ion: 63 Resp: 675694  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 22.9 42.5  
 83 13.9 10.3 19.1



#20  
 cis-1,2-Dichloroethene  
 Concen: 184.148 ug/L  
 RT: 4.68 min Scan# 1040  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Tgt Ion: 96 Resp: 416393  
 Ion Ratio Lower Upper  
 96 100  
 61 123.1 83.7 155.5  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 299.611 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

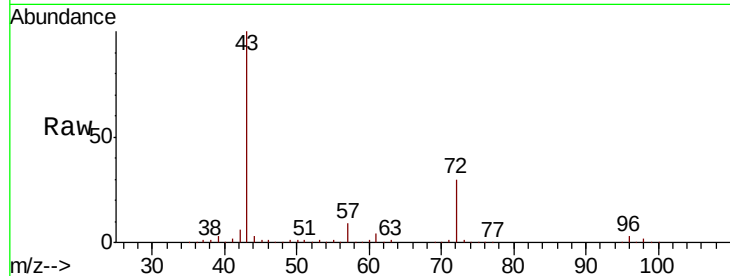
ClientSampleId :

Tot Ion: 43 Resp: 704577

Ion Ratio Lower Upper

43 100

72 31.1 15.6 46.8



Abundance Ion 43.00 (42.70 to 43.70): VU041660.D (-960) (-)

Ion 72.00 (71.70 to 72.70): VU041660.D (-960) (-)

4.72

300000

250000

200000

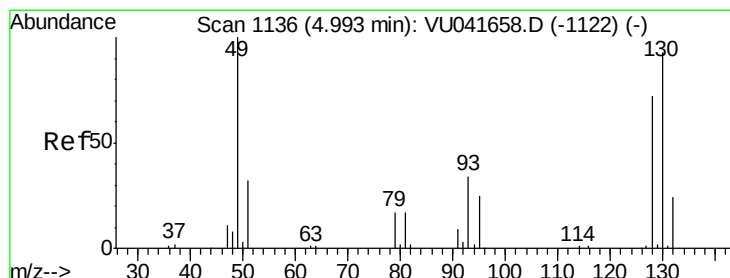
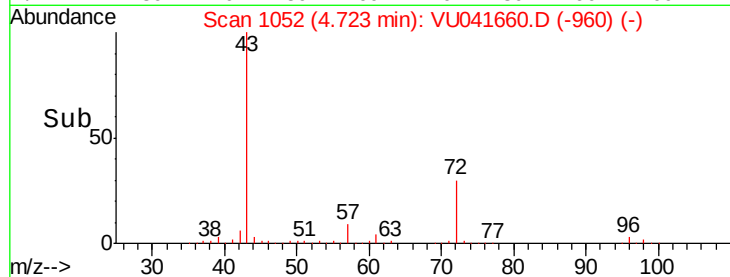
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 180.499 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Tgt Ion: 128 Resp: 215616

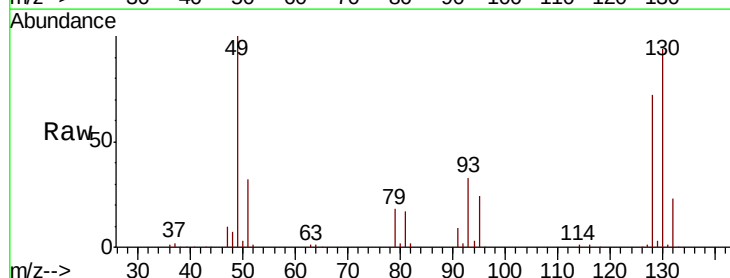
Ion Ratio Lower Upper

128 100

49 138.3 97.9 181.9

130 130.1 90.9 168.9

51 44.0 35.9 53.9



Abundance Ion 128.00 (127.70 to 128.70): VU041660.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU041660.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU041660.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU041660.D (-1043) (-)

200000

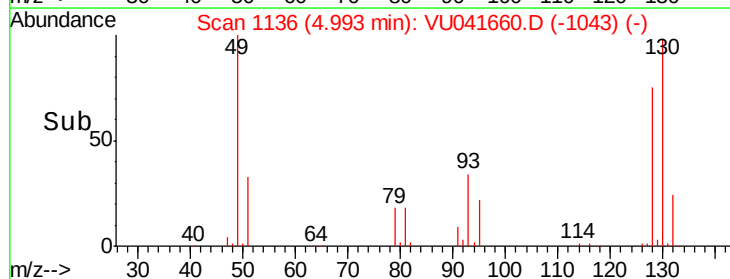
150000

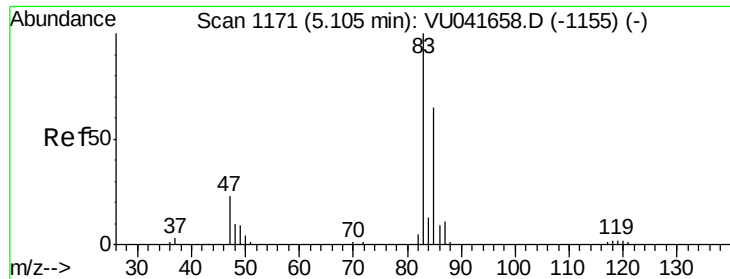
100000

50000

0

Time-->

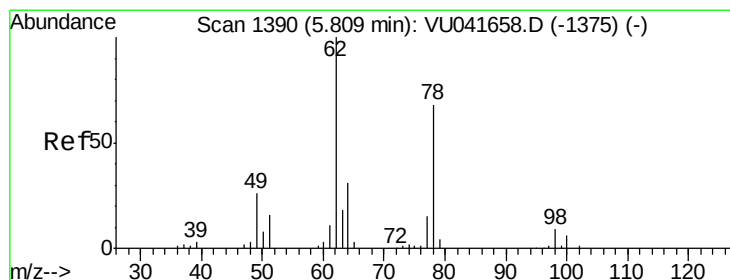
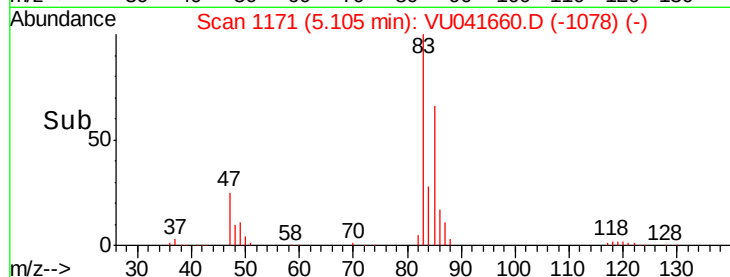
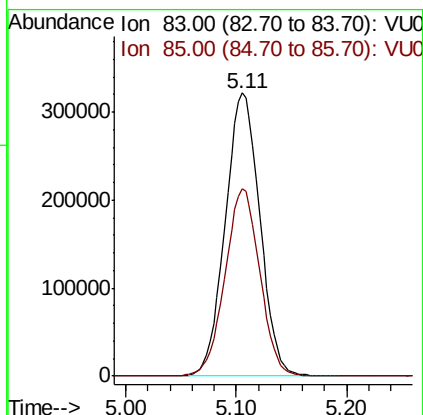
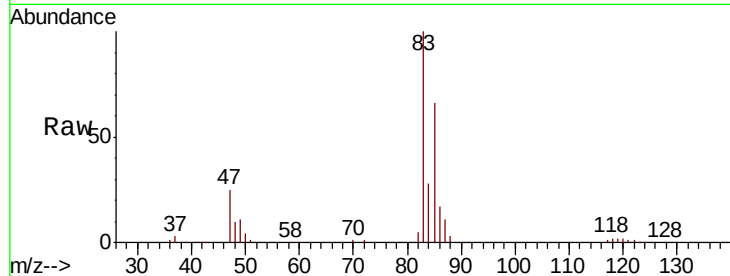




#25  
Chloroform  
Concen: 163.233 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

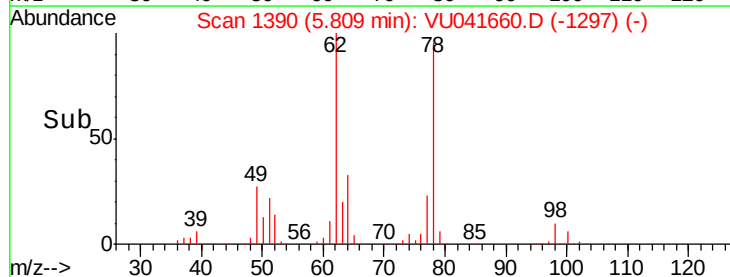
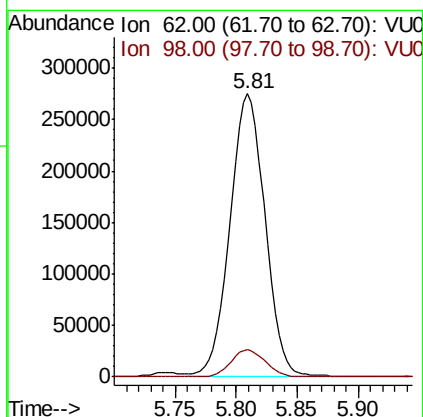
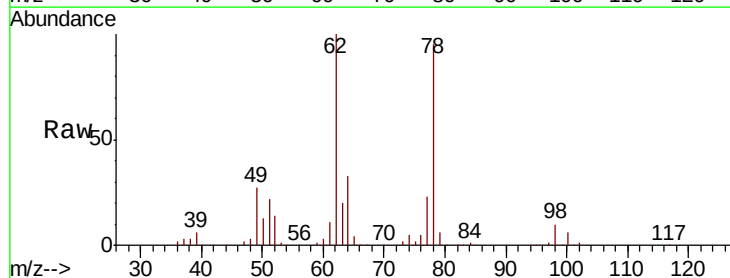
Instrument :  
MSVOA\_U  
ClientSampleId :

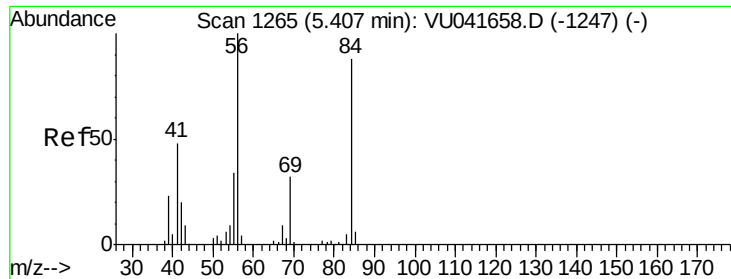
Tot Ion: 83 Resp: 700898  
Ion Ratio Lower Upper  
83 100  
85 66.1 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 151.188 ug/L  
RT: 5.81 min Scan# 1390  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 62 Resp: 545930  
Ion Ratio Lower Upper  
62 100  
98 9.6 7.1 10.7

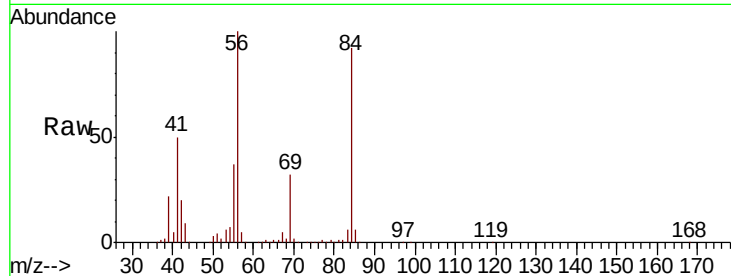




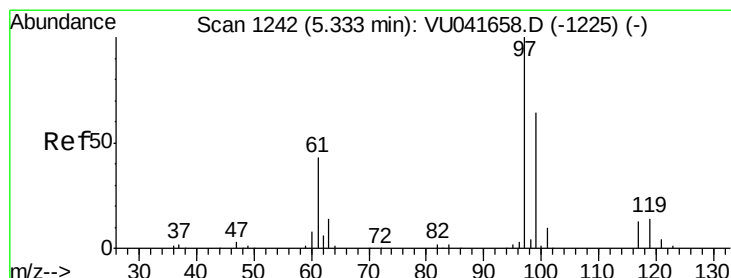
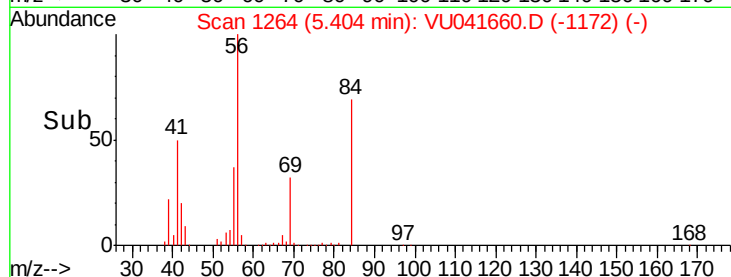
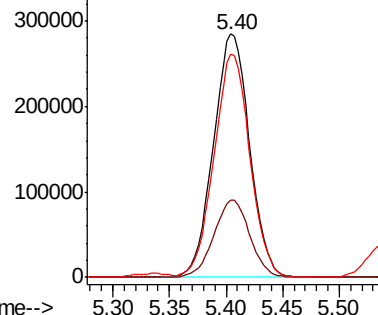
#29  
Cyclohexane  
Concen: 183.914 ug/L  
RT: 5.40 min Scan# 1264  
Delta R.T. -0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 56 Resp: 632138  
Ion Ratio Lower Upper  
56 100  
69 31.4 25.0 37.6  
84 91.1 72.6 109.0

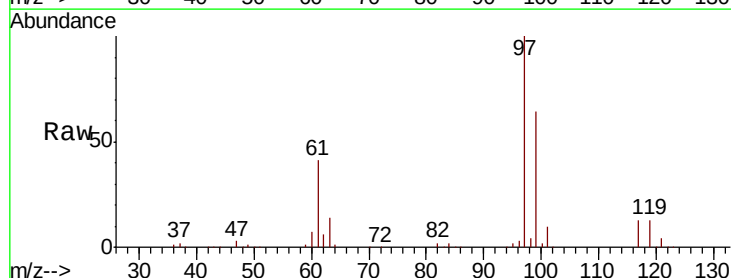


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

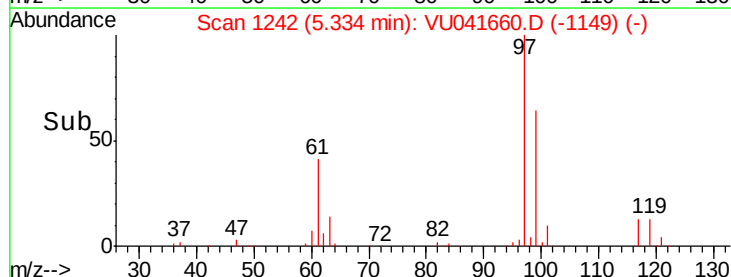
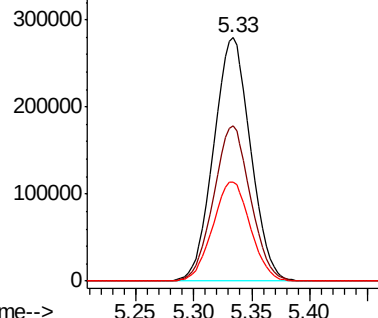


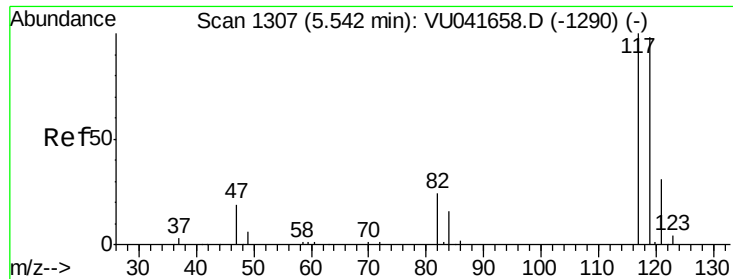
#30  
1,1,1-Trichloroethane  
Concen: 185.906 ug/L  
RT: 5.33 min Scan# 1242  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 97 Resp: 619400  
Ion Ratio Lower Upper  
97 100  
99 63.8 50.9 76.3  
61 41.7 33.4 50.0



Abundance Ion 97.00 (96.70 to 97.70): VU0  
Ion 99.00 (98.70 to 99.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0



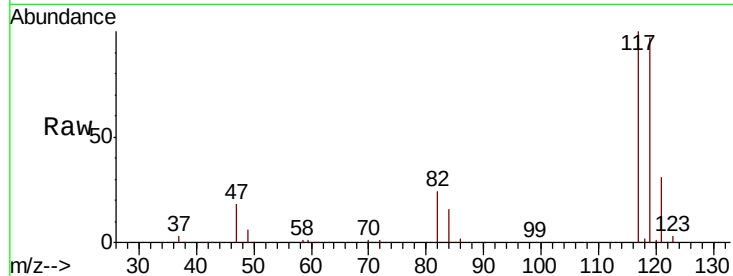


#31

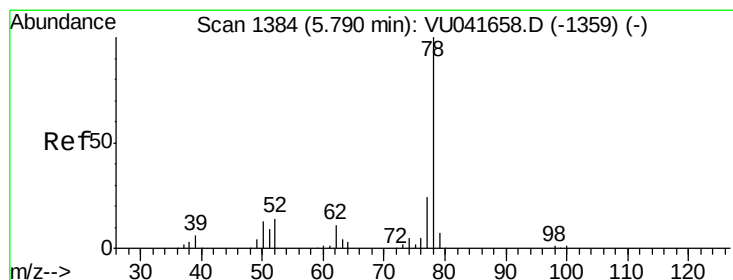
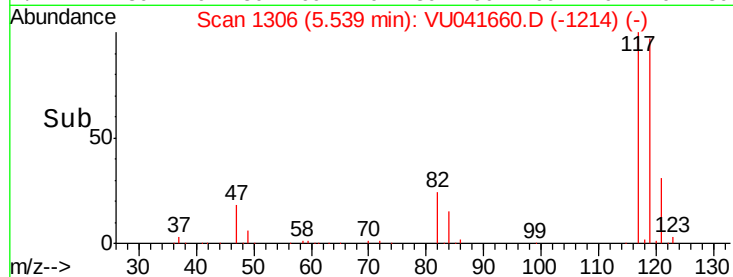
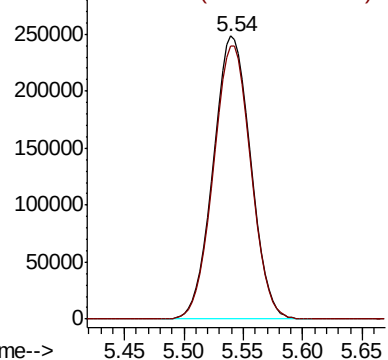
Carbon tetrachloride  
Concen: 187.402 ug/L  
RT: 5.54 min Scan# 1306  
Delta R.T. -0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion:117 Resp: 542019  
Ion Ratio Lower Upper  
117 100  
119 96.8 77.2 115.8



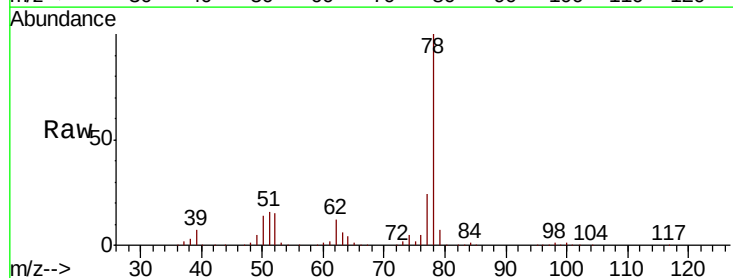
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V



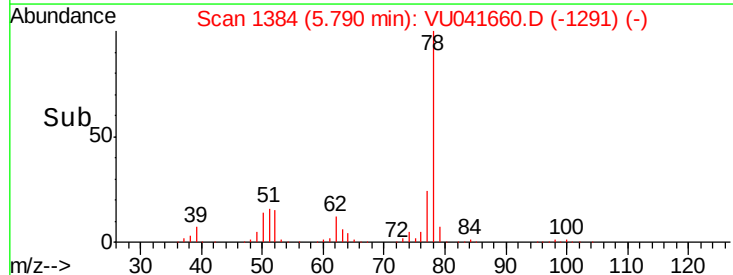
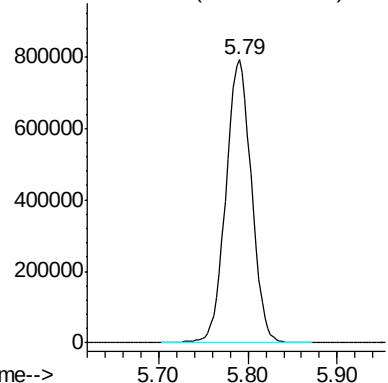
#33

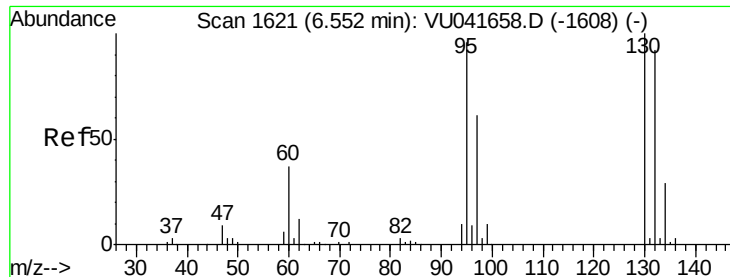
Benzene  
Concen: 188.617 ug/L  
RT: 5.79 min Scan# 1384  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 78 Resp: 1589189



Abundance Ion 78.00 (77.70 to 78.70): VU0

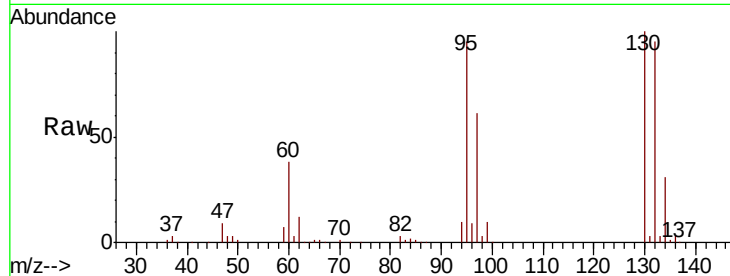




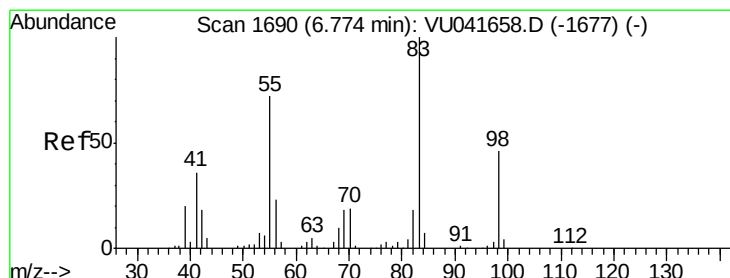
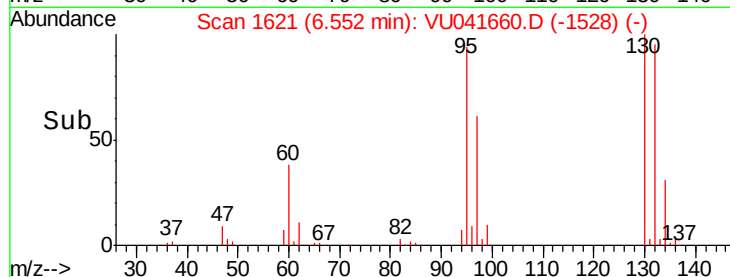
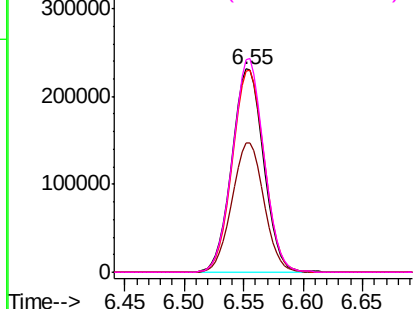
#34  
 Trichloroethene  
 Concen: 197.043 ug/L  
 RT: 6.55 min Scan# 1621  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion: 95 Resp: 429786  
 Ion Ratio Lower Upper  
 95 100  
 97 63.7 44.5 82.7  
 132 99.3 66.7 123.9  
 130 104.9 72.5 134.7

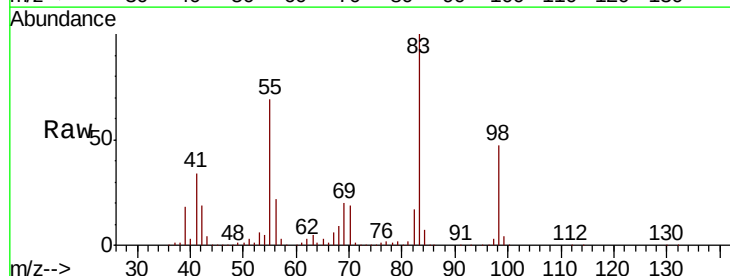


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

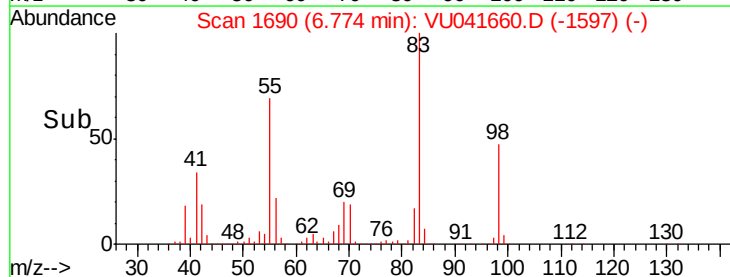
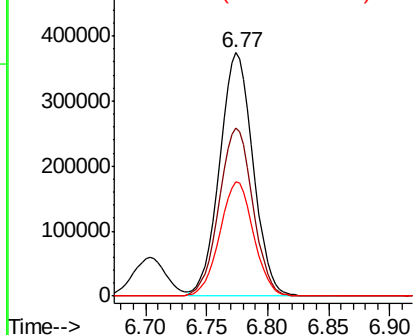


#35  
 Methylcyclohexane  
 Concen: 213.737 ug/L  
 RT: 6.77 min Scan# 1690  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

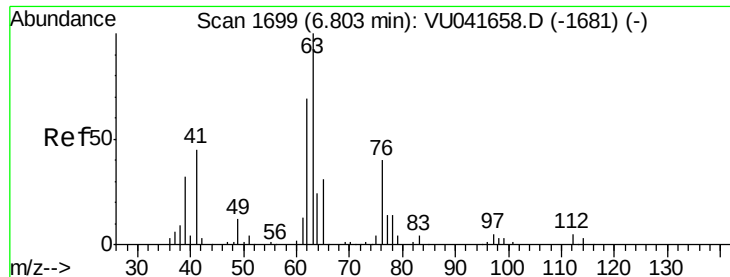
Tgt Ion: 83 Resp: 717440  
 Ion Ratio Lower Upper  
 83 100  
 55 69.9 57.8 86.6  
 98 47.6 37.7 56.5



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0



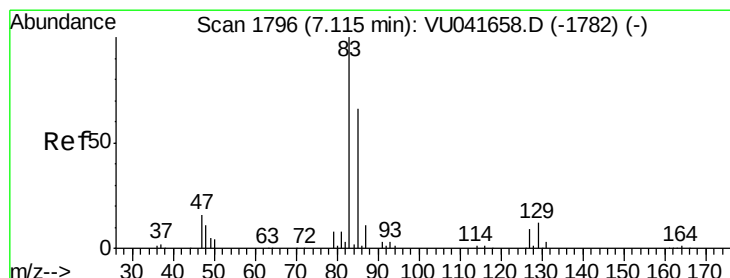
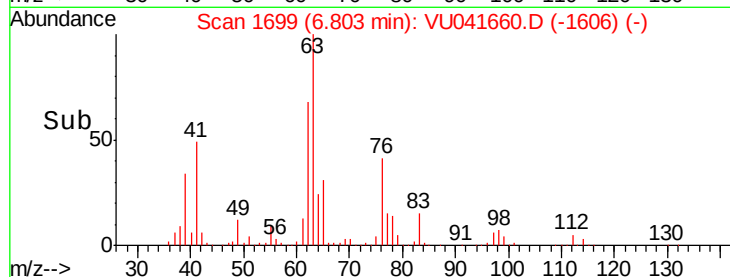
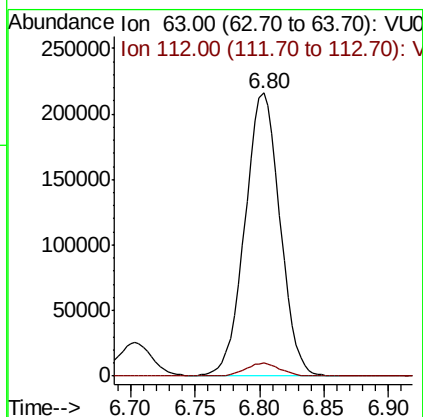
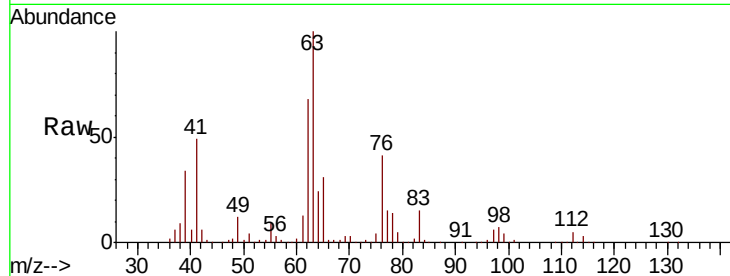




#37  
 1,2-Dichloropropane  
 Concen: 174.243 ug/L  
 RT: 6.80 min Scan# 1699  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

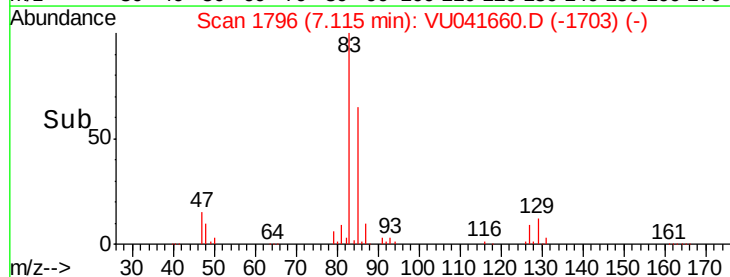
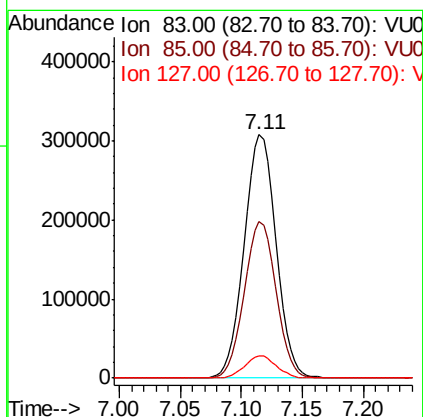
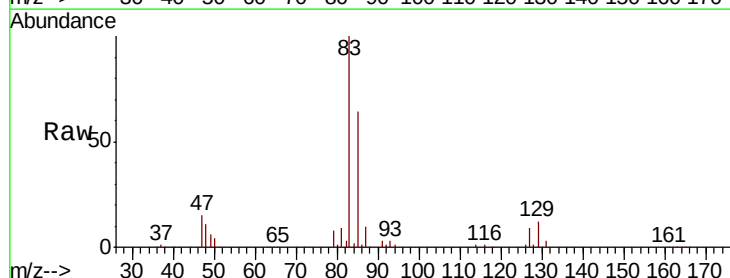
Instrument :  
 MSVOA\_U  
 ClientSampled :

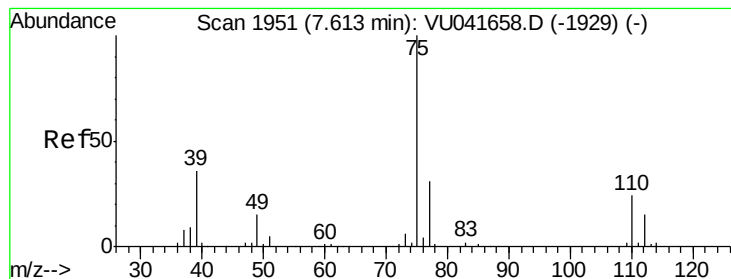
Tot Ion: 63 Resp: 407545  
 Ion Ratio Lower Upper  
 63 100  
 112 4.6 3.5 5.3



#38  
 Bromodichloromethane  
 Concen: 185.400 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Tgt Ion: 83 Resp: 553655  
 Ion Ratio Lower Upper  
 83 100  
 85 64.2 45.9 85.3  
 127 9.2 7.5 11.3



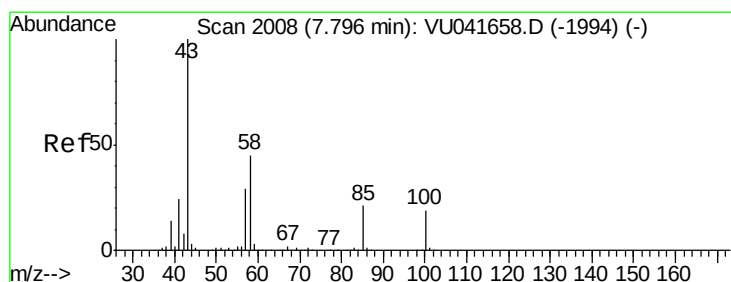
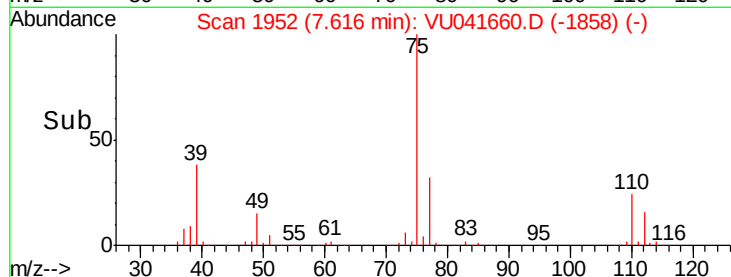
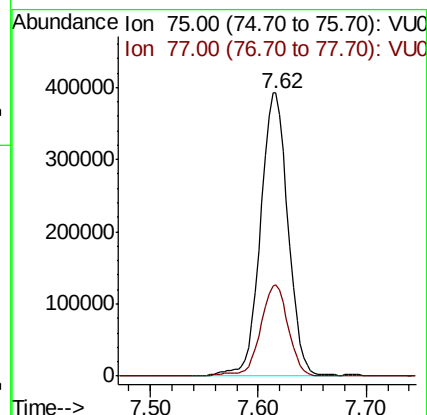
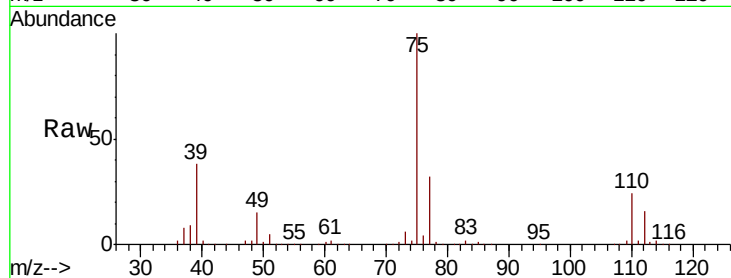


#39

cis-1,3-Dichloropropene  
Concen: 203.942 ug/L  
RT: 7.62 min Scan# 1952  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Instrument :  
MSVOA\_U  
ClientSampleId :

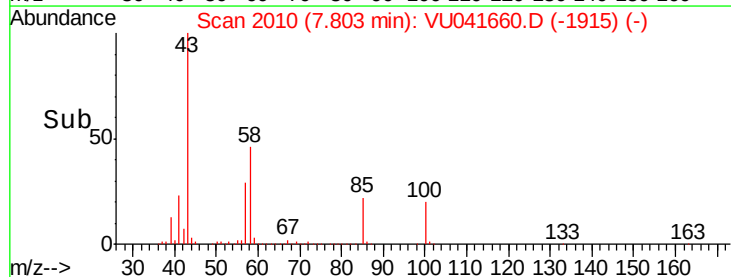
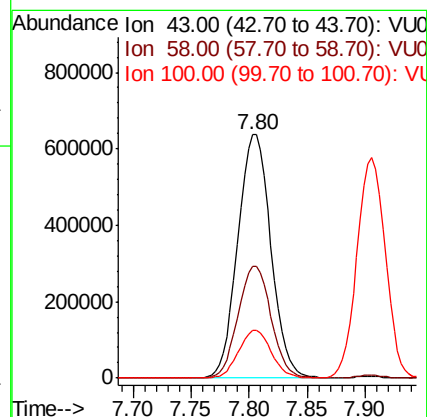
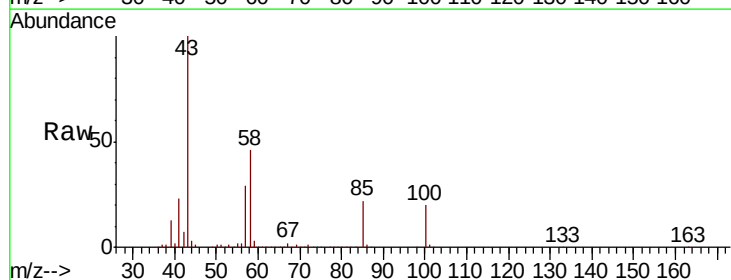
Tot Ion: 75 Resp: 695502  
Ion Ratio Lower Upper  
75 100  
77 32.4 21.4 39.8

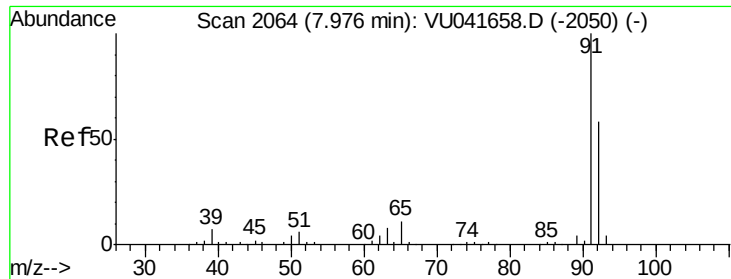


#40

4-Methyl-2-pentanone  
Concen: 344.903 ug/L  
RT: 7.80 min Scan# 2010  
Delta R.T. 0.01 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 43 Resp: 1267656  
Ion Ratio Lower Upper  
43 100  
58 45.7 36.1 54.1  
100 19.3 14.9 22.3





#42

Toluene

Concen: 208.075 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

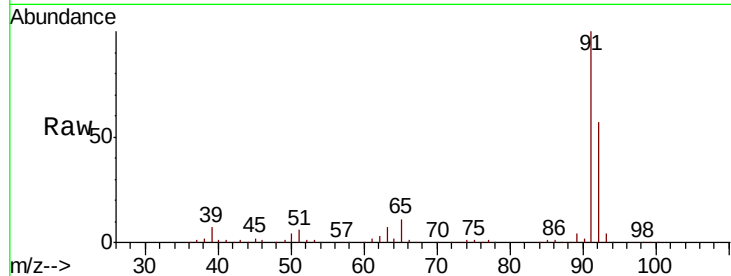
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 91 Resp: 1794710

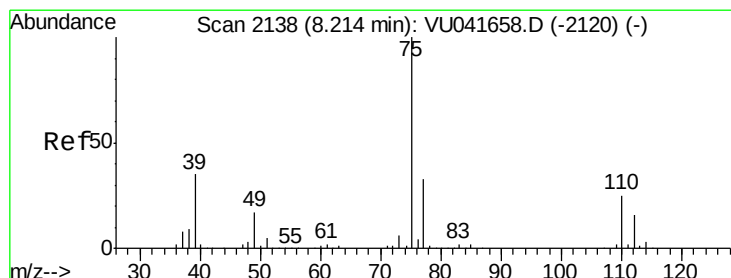
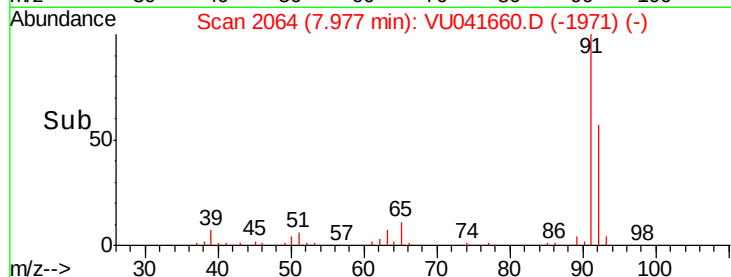
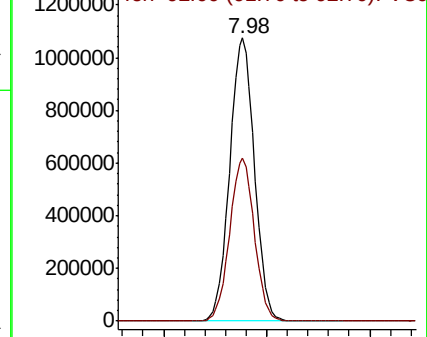
Ion Ratio Lower Upper

91 100

92 57.5 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU041658.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 197.638 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU041660.D

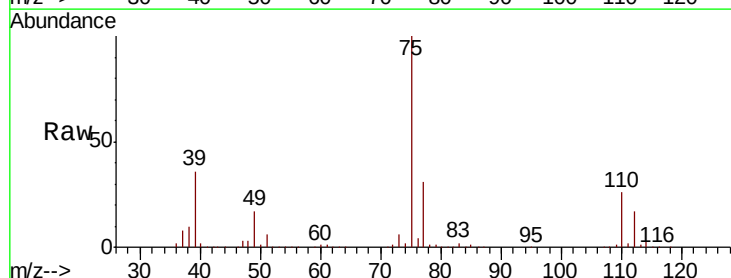
Acq: 16 Dec 2020 10:43

Tgt Ion: 75 Resp: 679551

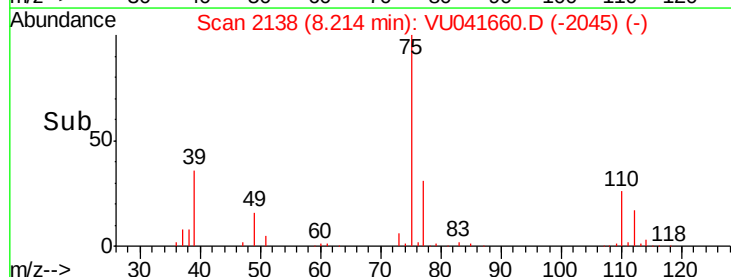
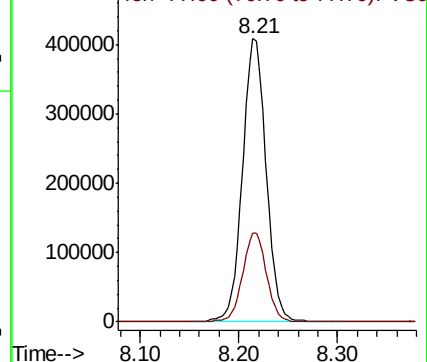
Ion Ratio Lower Upper

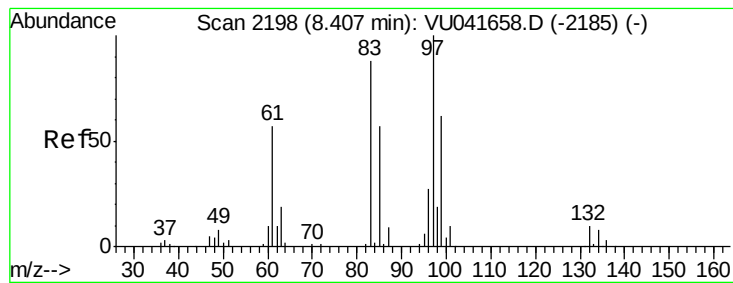
75 100

77 31.4 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VU041658.D (-2120) (-)





#45

1,1,2-Trichloroethane

Concen: 199.198 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 97 Resp: 415319

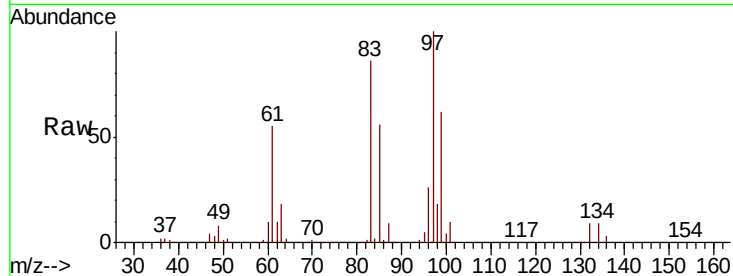
Ion Ratio Lower Upper

97 100

99 61.8 43.3 80.3

83 85.7 61.4 114.0

85 55.9 40.0 74.4



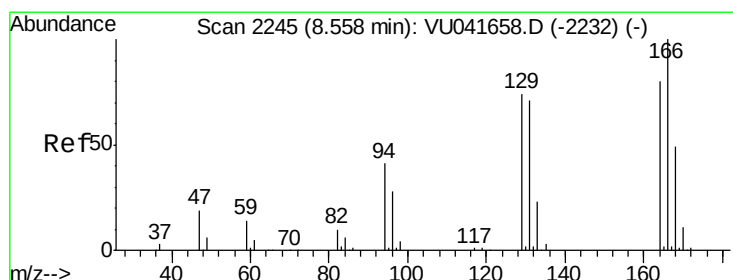
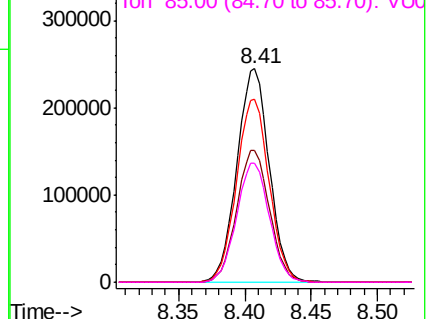
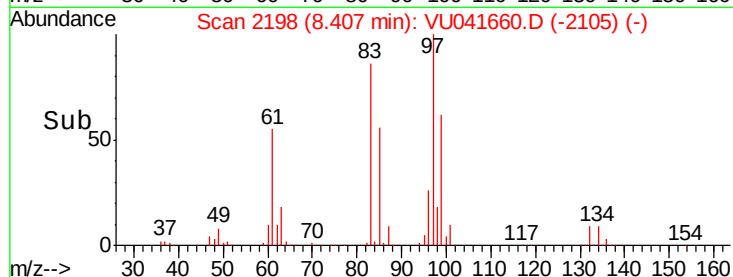
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 202.392 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Tgt Ion: 164 Resp: 318595

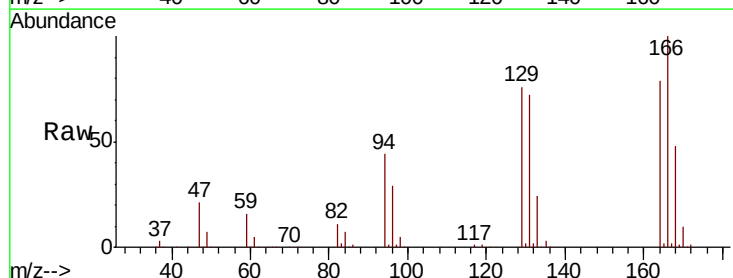
Ion Ratio Lower Upper

164 100

129 95.5 64.5 119.9

131 91.0 62.5 116.1

166 126.3 87.5 162.5



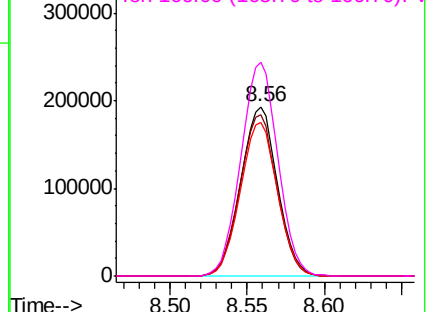
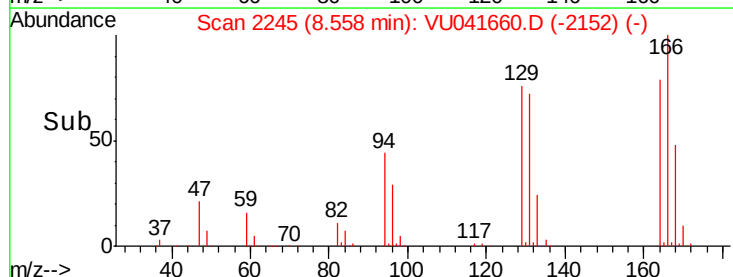
Abundance

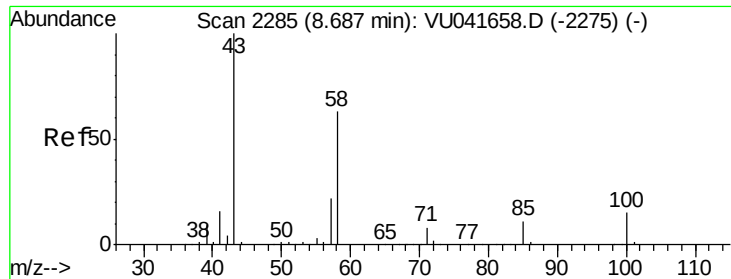
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

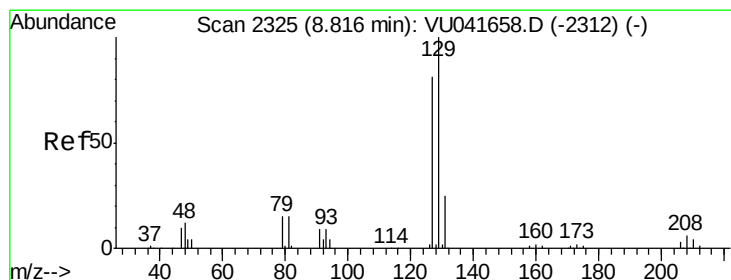
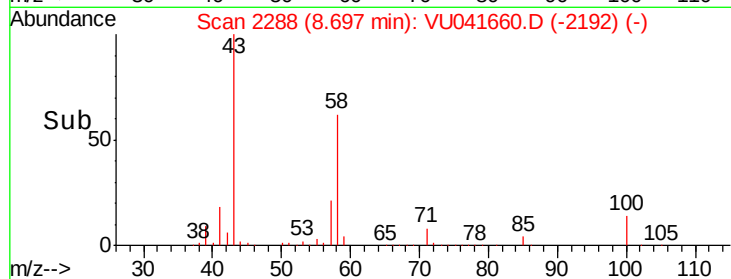
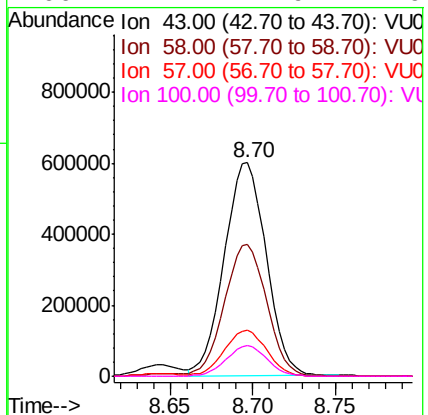
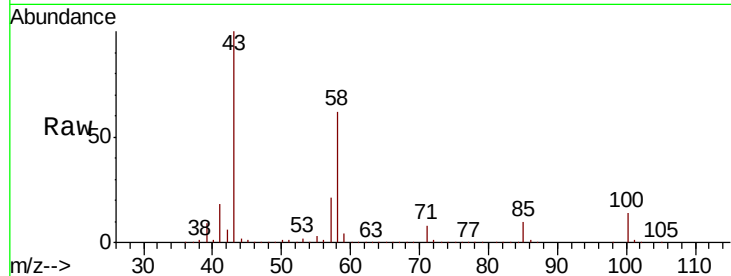




#48  
2-Hexanone  
Concen: 359.895 ug/L  
RT: 8.70 min Scan# 2285  
Delta R.T. 0.01 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

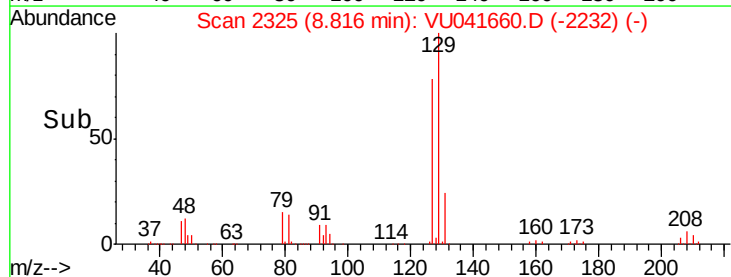
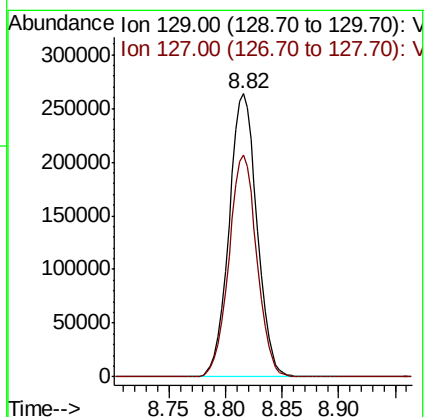
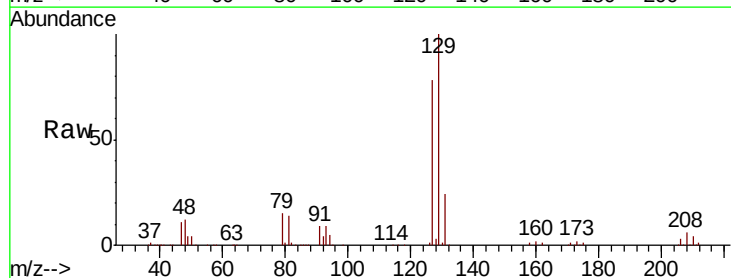
Instrument :  
MSVOA\_U  
ClientSampleId :

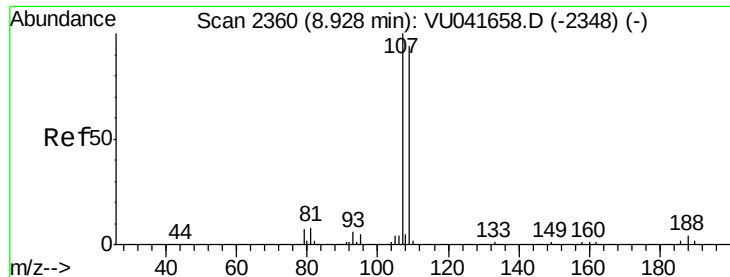
Tot Ion: 43 Resp: 1058678  
Ion Ratio Lower Upper  
43 100  
58 62.4 50.4 75.6  
57 21.8 17.9 26.9  
100 14.1 11.9 17.9



#49  
Dibromochloromethane  
Concen: 198.842 ug/L  
RT: 8.82 min Scan# 2325  
Delta R.T. 0.00 min  
Lab File: VU041660.D  
Acq: 16 Dec 2020 10:43

Tgt Ion: 129 Resp: 453624  
Ion Ratio Lower Upper  
129 100  
127 78.4 56.6 105.2

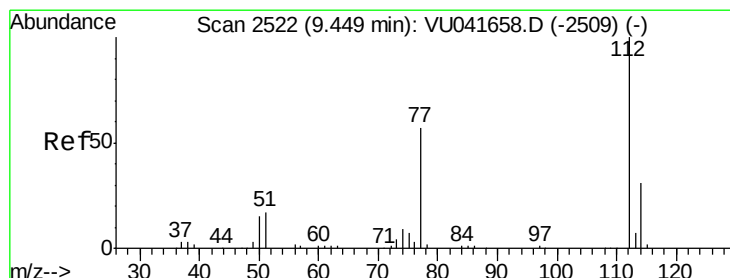
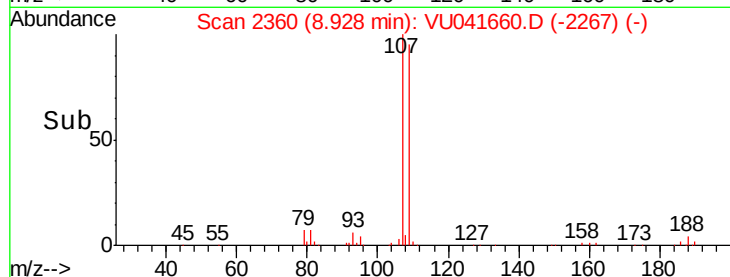
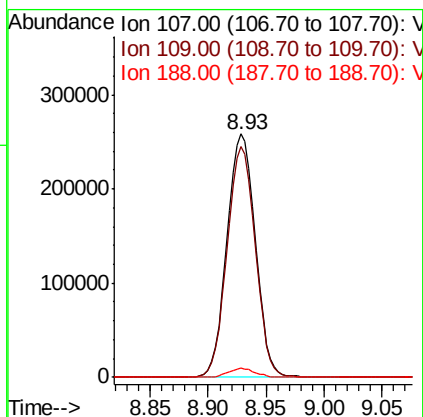
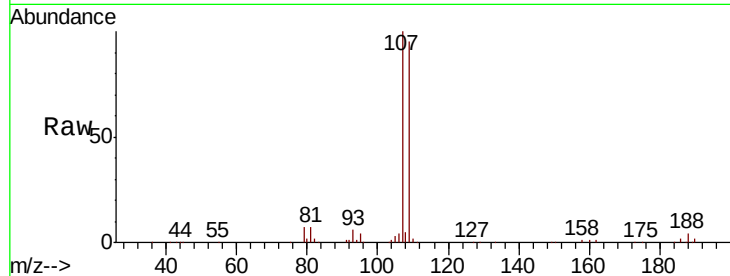




#50  
 1,2-Dibromoethane  
 Concen: 195.920 ug/L  
 RT: 8.93 min Scan# 2360  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

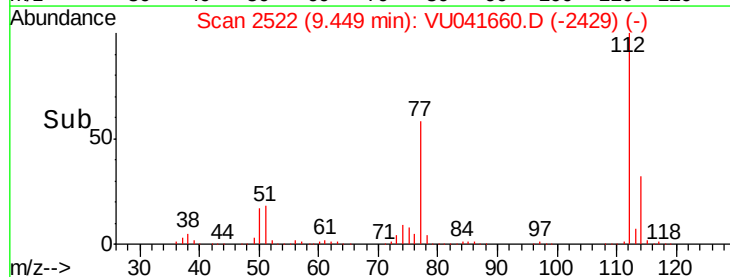
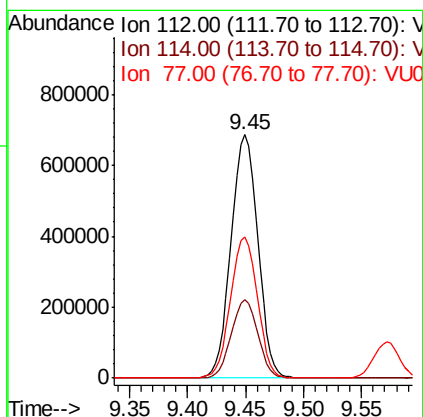
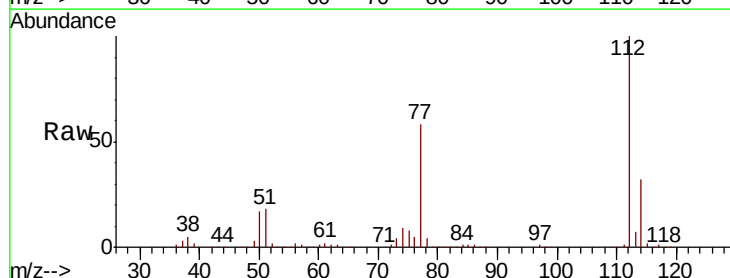
Instrument :  
 MSVOA\_U  
 ClientSampleId :

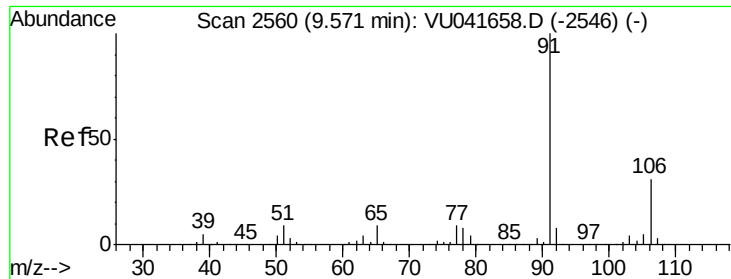
Tot Ion:107 Resp: 435852  
 Ion Ratio Lower Upper  
 107 100  
 109 94.7 65.7 122.1  
 188 3.7 2.9 4.3



#51  
 Chlorobenzene  
 Concen: 194.608 ug/L  
 RT: 9.45 min Scan# 2522  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Tgt Ion:112 Resp: 1101458  
 Ion Ratio Lower Upper  
 112 100  
 114 32.3 22.0 41.0  
 77 57.9 46.0 69.0





#52

Ethylbenzene

Concen: 201.383 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

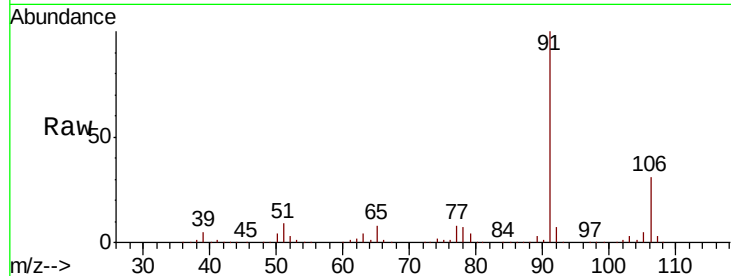
ClientSampleId :

Tot Ion: 91 Resp: 1908159

Ion Ratio Lower Upper

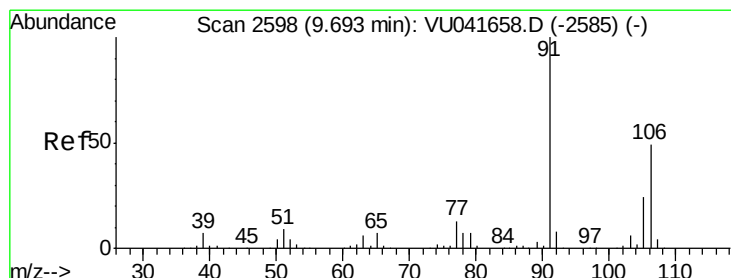
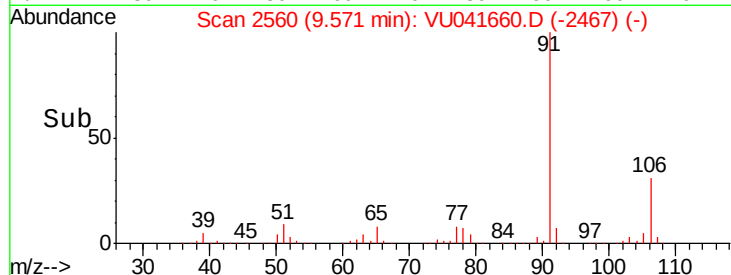
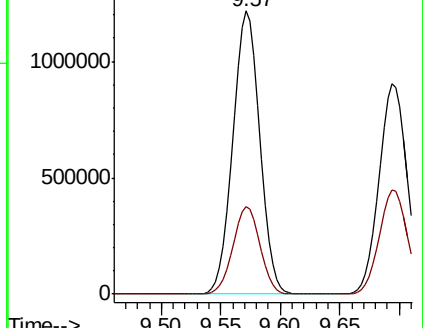
91 100

106 31.1 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VU041660.D (-2546) (-)

Ion 106.00 (105.70 to 106.70): VU041660.D (-2546) (-)



#53

m,p-Xylene

Concen: 210.171 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041660.D

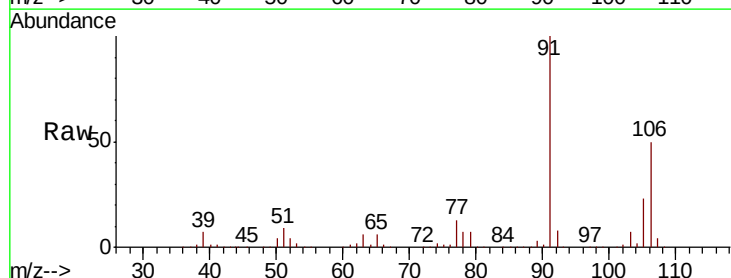
Acq: 16 Dec 2020 10:43

Tgt Ion: 106 Resp: 731426

Ion Ratio Lower Upper

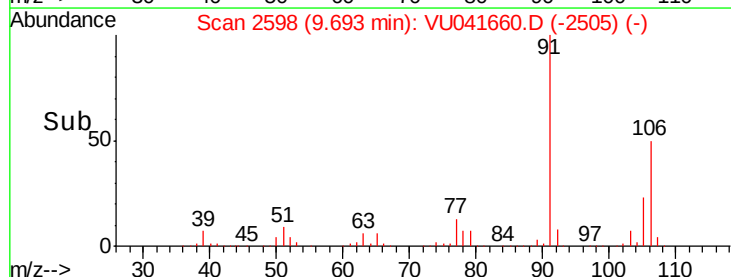
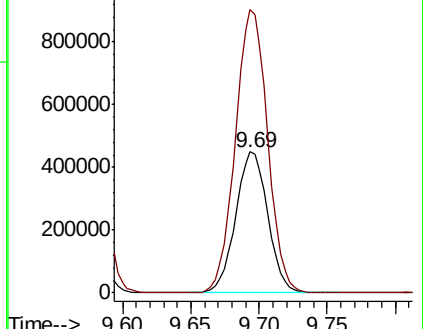
106 100

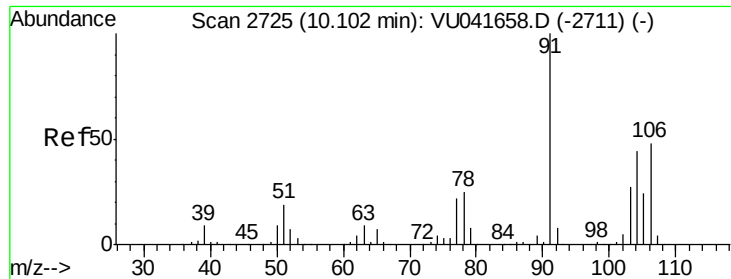
91 201.1 143.2 266.0



Abundance Ion 106.00 (105.70 to 106.70): VU041660.D (-2585) (-)

Ion 91.00 (90.70 to 91.70): VU041660.D (-2585) (-)





#54

o-xylene

Concen: 213.579 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

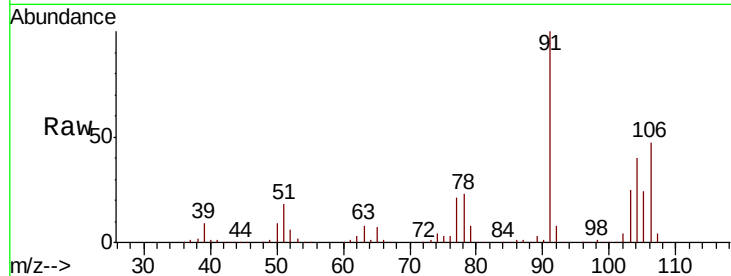
ClientSampleId :

Tot Ion:106 Resp: 726813

Ion Ratio Lower Upper

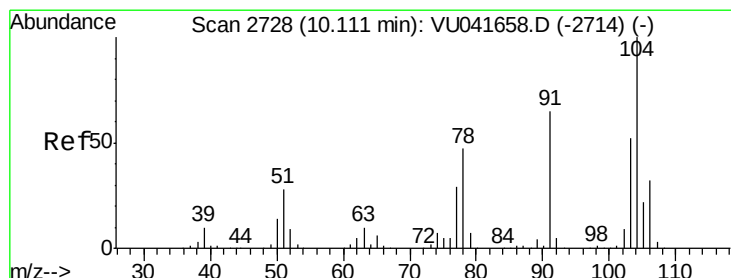
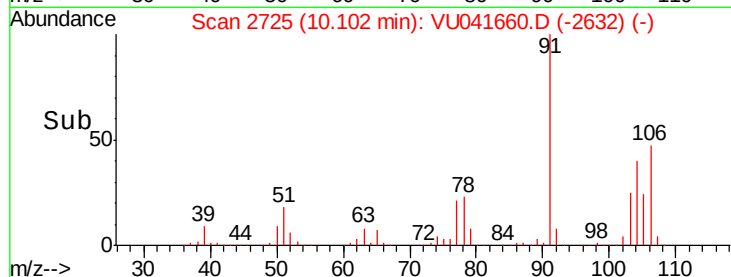
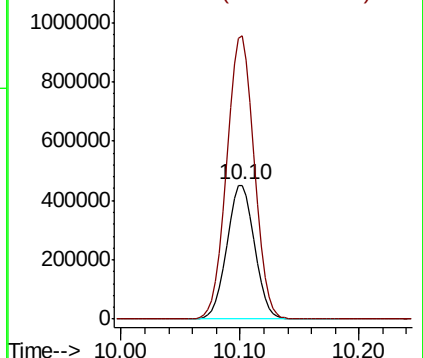
106 100

91 211.6 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 221.203 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU041660.D

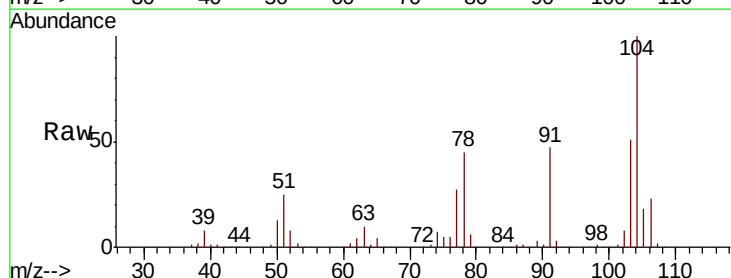
Acq: 16 Dec 2020 10:43

Tgt Ion:104 Resp: 1281286

Ion Ratio Lower Upper

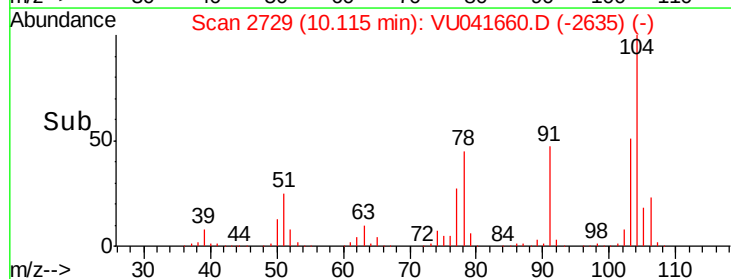
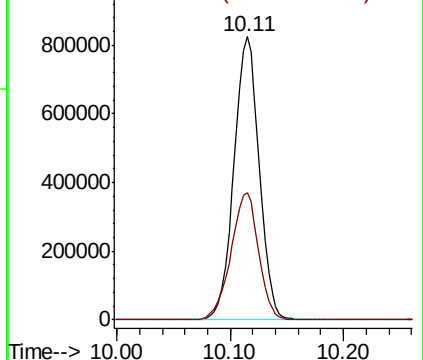
104 100

78 45.1 33.1 61.5

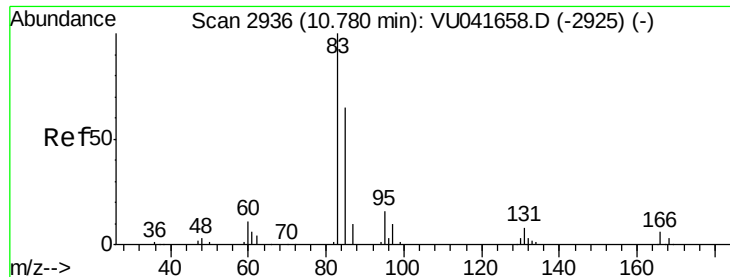


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



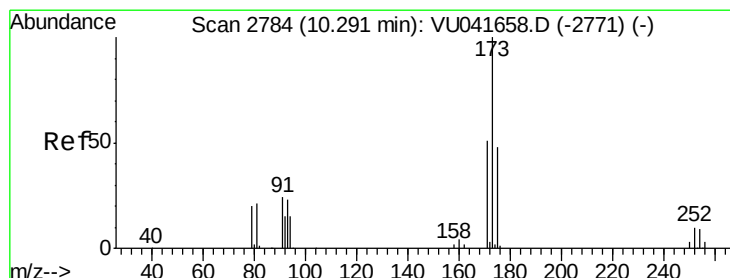
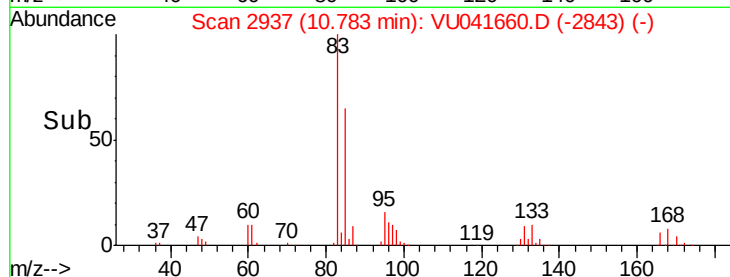
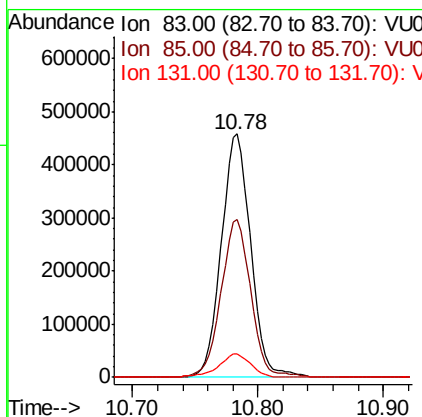
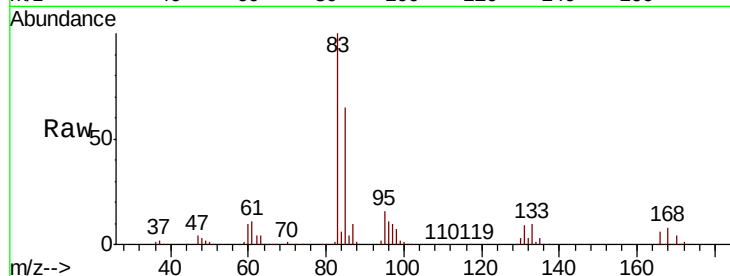




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 204.789 ug/L  
 RT: 10.78 min Scan# 2937  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

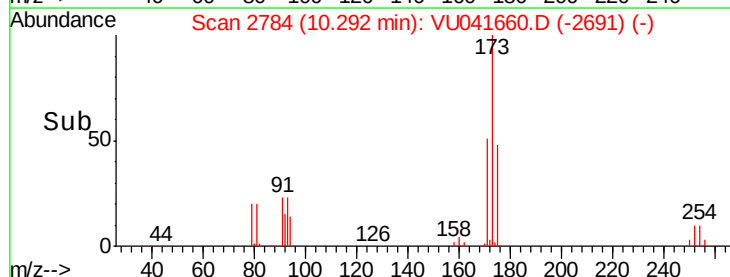
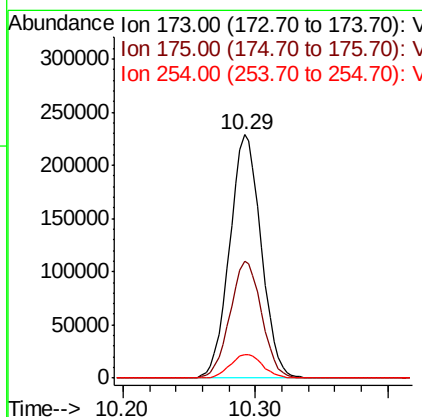
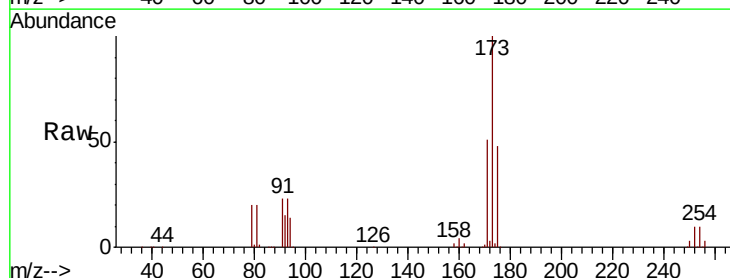
Instrument :  
 MSVOA\_U  
 ClientSampled :

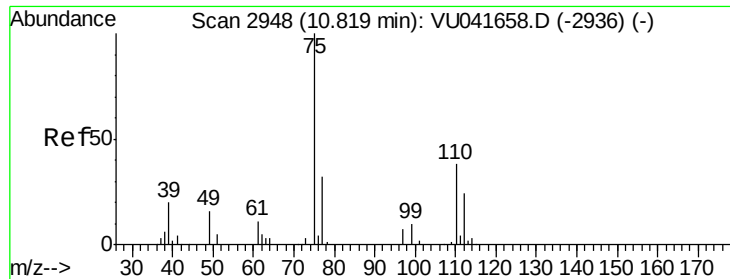
| Tot Ion   | 83    | Resp  | 743437 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.9  | 46.1  | 85.7   |
| 131       | 9.5   | 7.5   | 11.3   |



#59  
 Bromoform  
 Concen: 219.365 ug/L  
 RT: 10.29 min Scan# 2784  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

| Tgt Ion   | 173   | Resp  | 376931 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 173       | 100   |       |        |
| 175       | 48.3  | 38.3  | 57.5   |
| 254       | 9.9   | 7.6   | 11.4   |

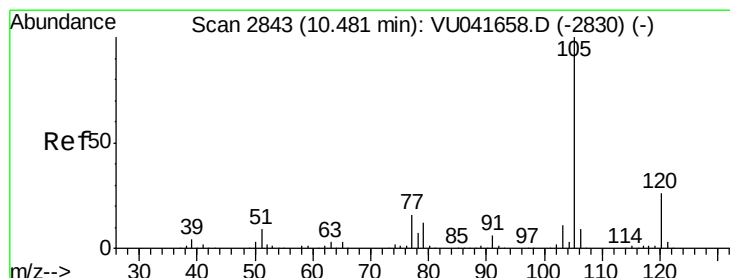
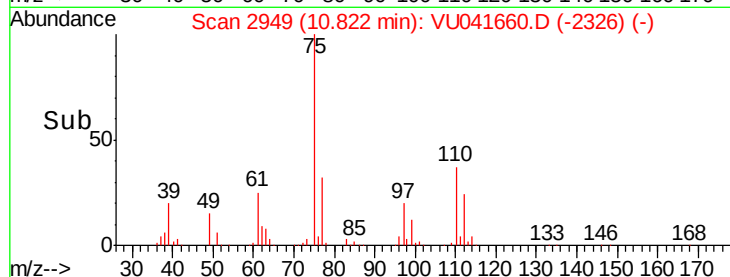
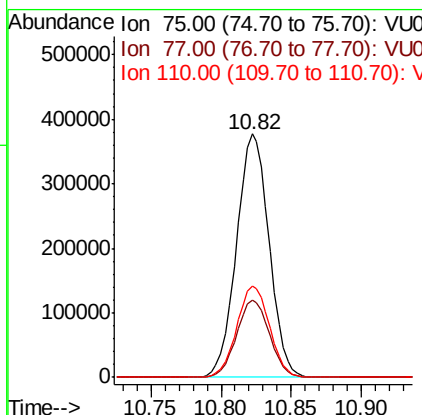
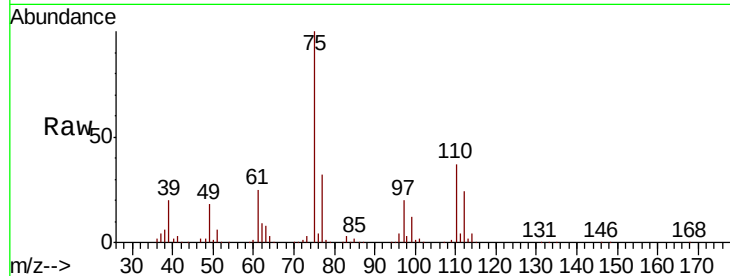




#60  
 1,2,3-Trichloropropane  
 Concen: 186.948 ug/L  
 RT: 10.82 min Scan# 2949  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

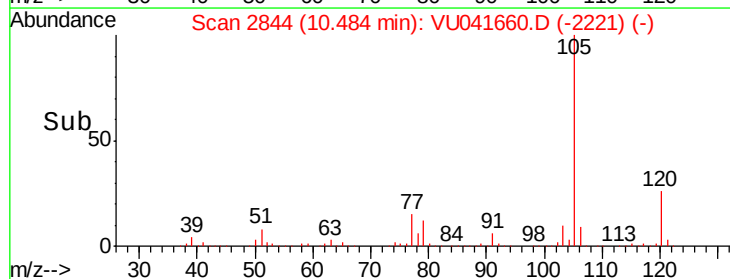
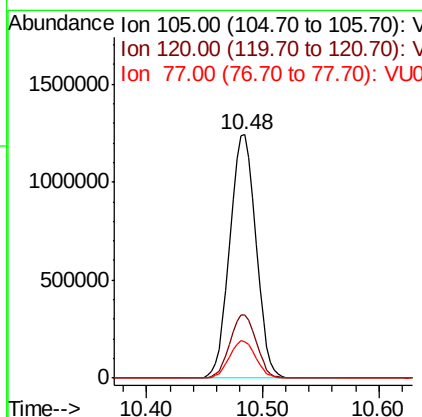
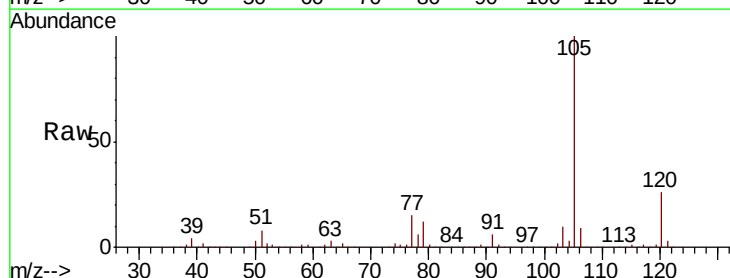
Instrument :  
 MSVOA\_U  
 ClientSampleId :

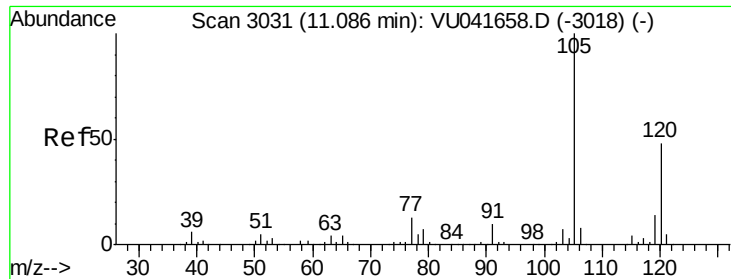
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.0  | 25.2  | 37.8  |
| 110     | 37.7  | 30.5  | 45.7  |



#61  
 Isopropylbenzene  
 Concen: 200.901 ug/L  
 RT: 10.48 min Scan# 2844  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.3  | 20.7  | 31.1  |
| 77      | 15.3  | 12.6  | 18.8  |

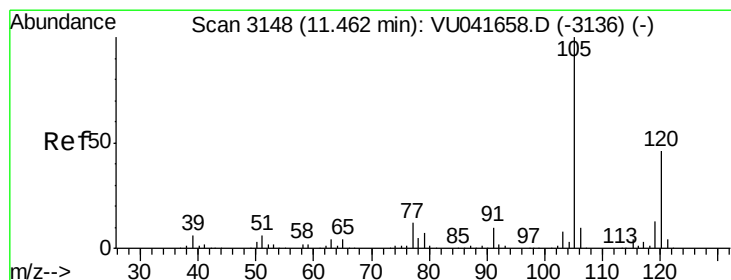
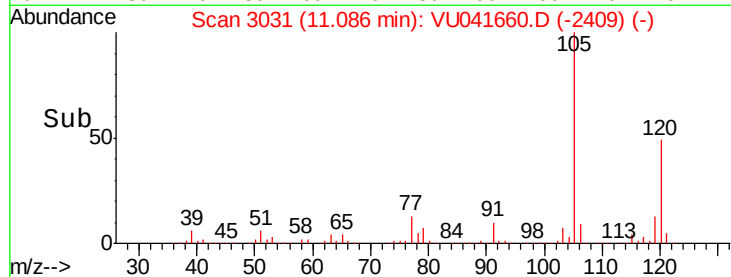
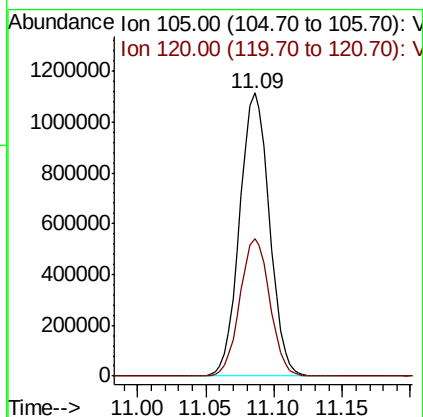
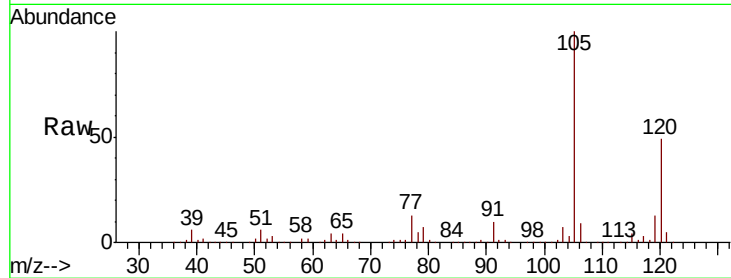




#62  
 1,3,5-Trimethylbenzene  
 Concen: 215.262 ug/L  
 RT: 11.09 min Scan# 3031  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

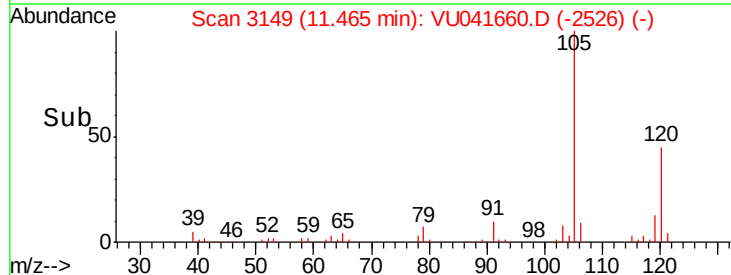
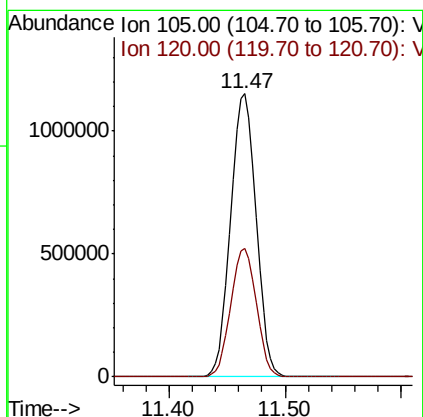
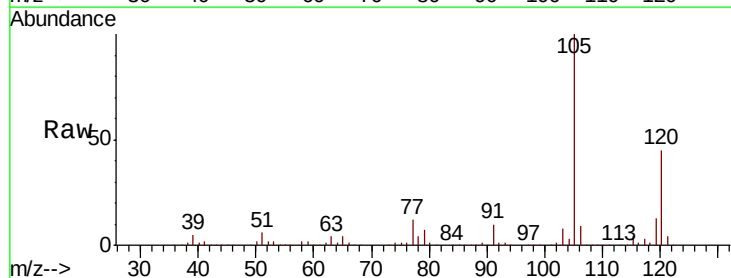
Instrument :  
 MSVOA\_U  
 ClientSampleId :

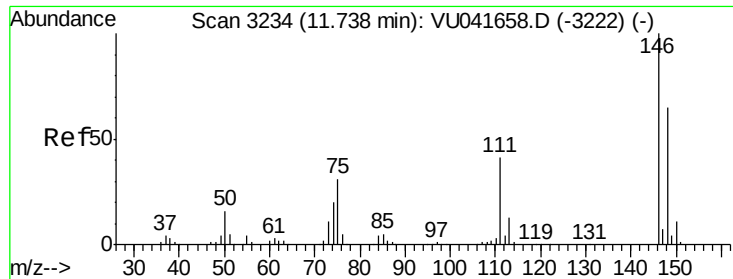
Tot Ion:105 Resp: 1689925  
 Ion Ratio Lower Upper  
 105 100  
 120 48.7 38.6 58.0



#63  
 1,2,4-Trimethylbenzene  
 Concen: 219.579 ug/L  
 RT: 11.47 min Scan# 3149  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Tgt Ion:105 Resp: 1741323  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 36.5 54.7

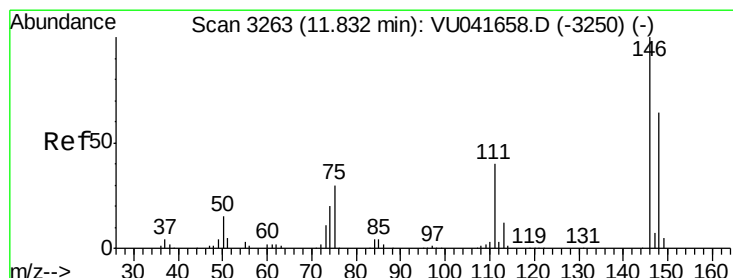
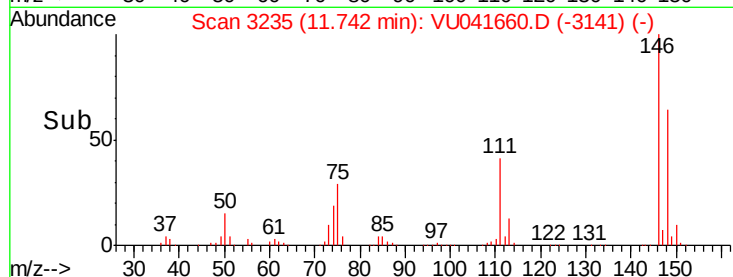
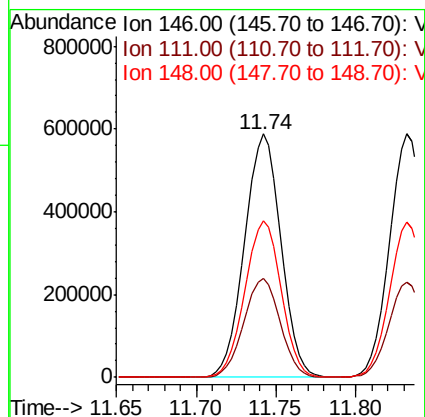
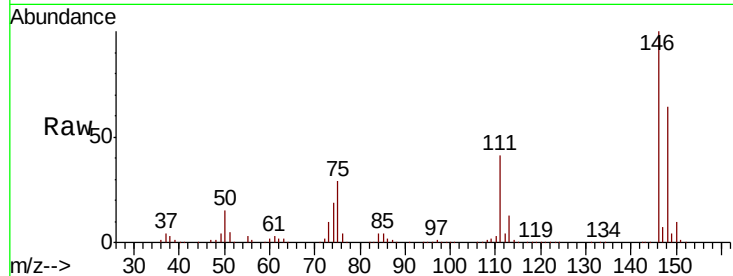




#64  
 1,3-Dichlorobenzene  
 Concen: 199.241 ug/L  
 RT: 11.74 min Scan# 3235  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

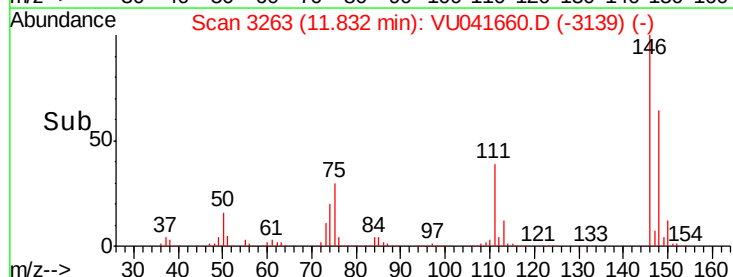
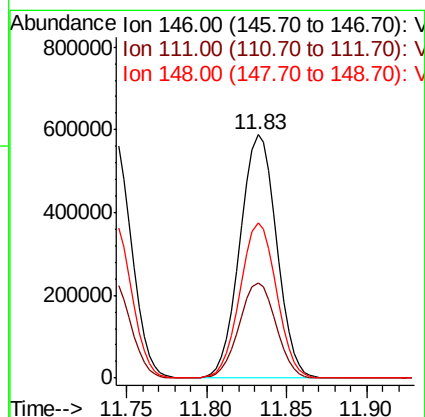
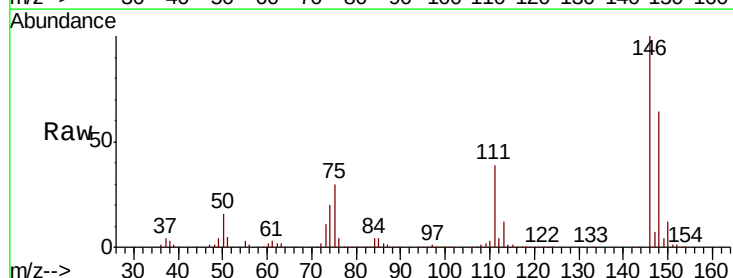
Instrument :  
 MSVOA\_U  
 ClientSampleId :

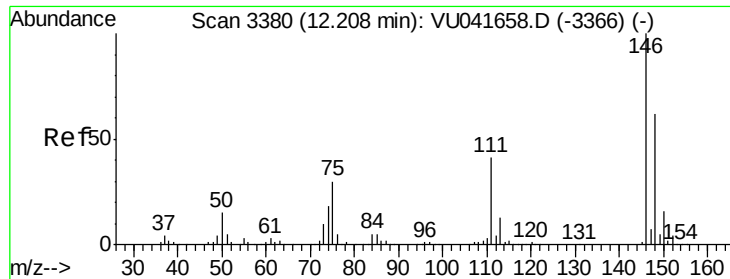
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.5  | 28.7  | 53.3  |
| 148     | 64.4  | 45.5  | 84.5  |



#65  
 1,4-Dichlorobenzene  
 Concen: 195.312 ug/L  
 RT: 11.83 min Scan# 3263  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.2  | 28.1  | 52.1  |
| 148     | 63.8  | 44.8  | 83.2  |

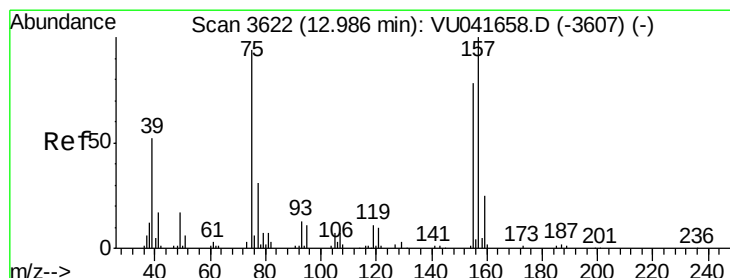
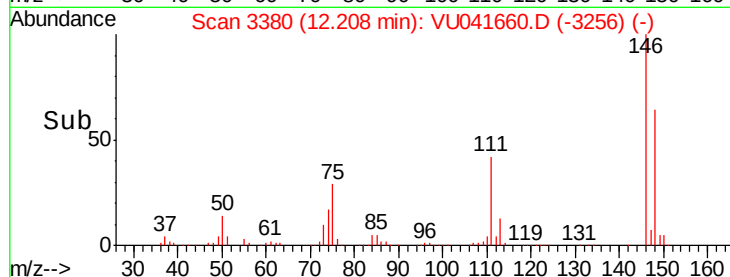
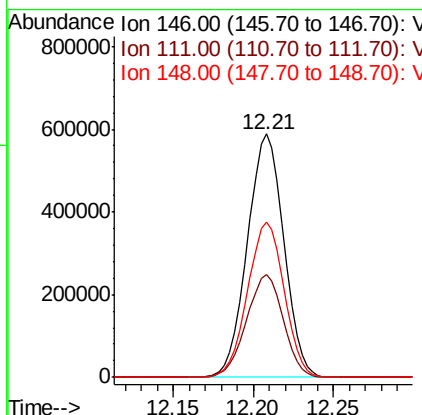
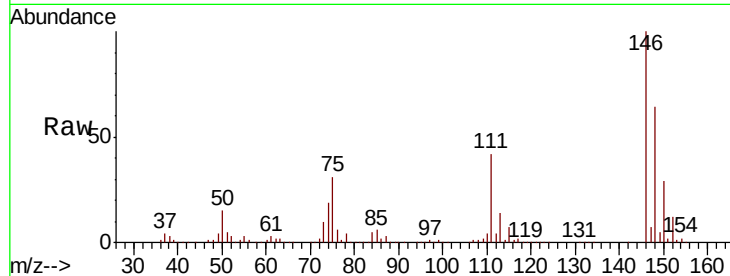




#67  
 1,2-Dichlorobenzene  
 Concen: 200.884 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

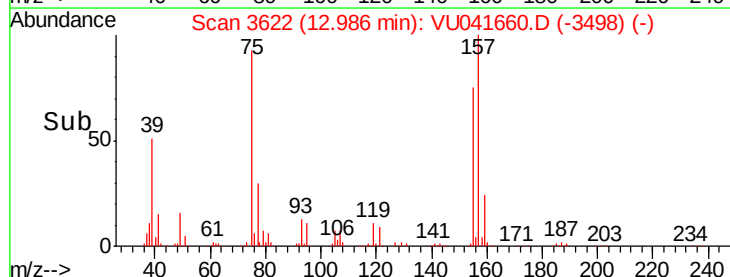
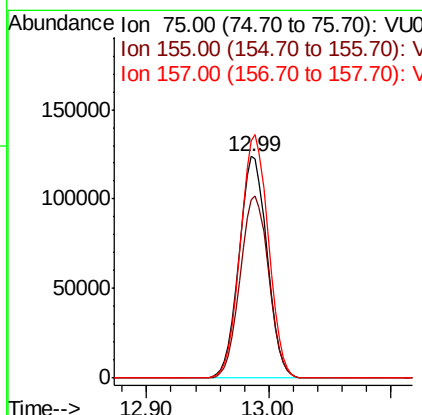
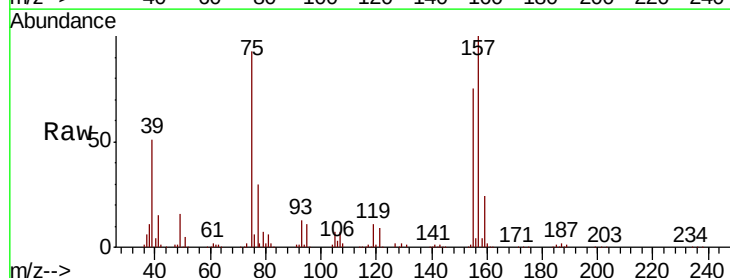
Instrument :  
 MSVOA\_U  
 ClientSampleId :

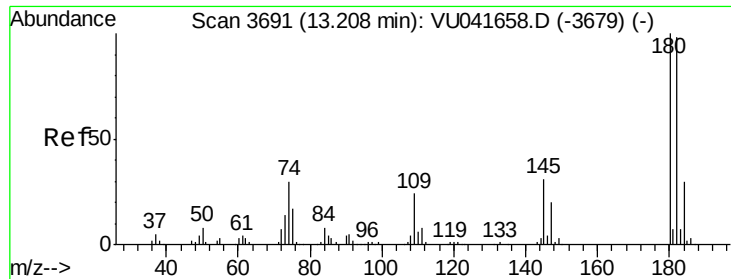
Tot Ion:146 Resp: 916172  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 33.0 49.6  
 148 63.9 50.0 75.0



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 209.028 ug/L  
 RT: 12.99 min Scan# 3622  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Tgt Ion: 75 Resp: 196032  
 Ion Ratio Lower Upper  
 75 100  
 155 80.5 66.8 100.2  
 157 107.4 85.5 128.3

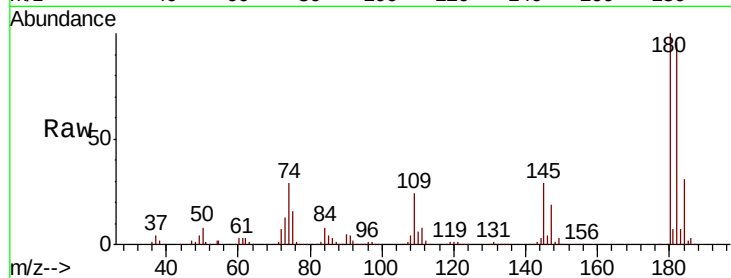




#69  
 1,3,5-Trichlorobenzene  
 Concen: 229.476 ug/L  
 RT: 13.21 min Scan# 3691  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

Instrument :  
 MSVOA\_U  
 ClientSampleId :

| Tot Ion   | 180  | Resp  | 690770 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 182       | 96.3 | 77.1  | 115.7  |
| 184       | 30.7 | 23.9  | 35.9   |
| 145       | 29.6 | 23.8  | 35.6   |



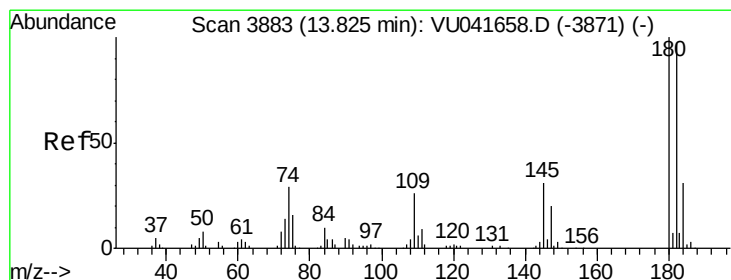
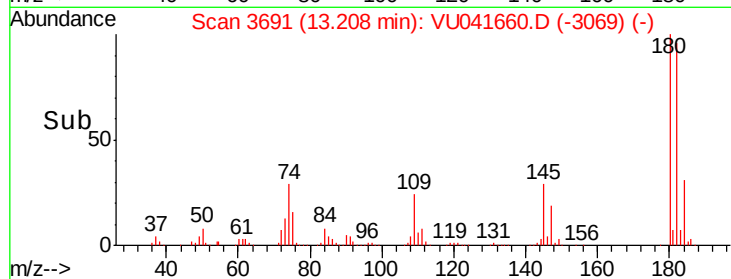
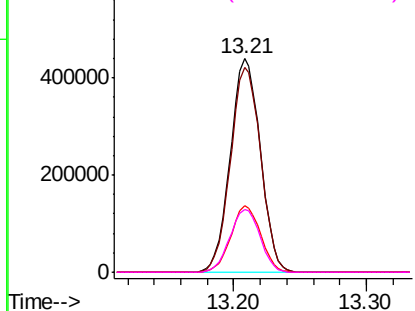
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

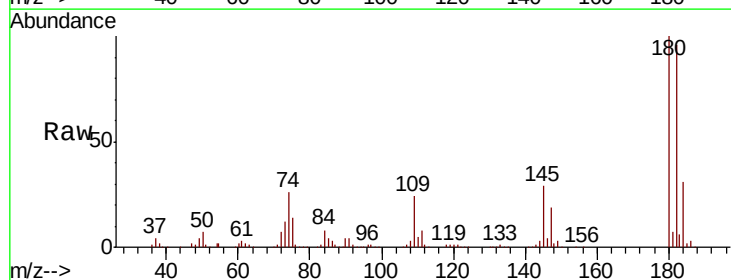
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,4-trichlorobenzene  
 Concen: 250.162 ug/L  
 RT: 13.83 min Scan# 3884  
 Delta R.T. 0.00 min  
 Lab File: VU041660.D  
 Acq: 16 Dec 2020 10:43

| Tgt Ion   | 180  | Resp  | 644555 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 182       | 96.1 | 75.9  | 113.9  |
| 145       | 29.8 | 24.1  | 36.1   |

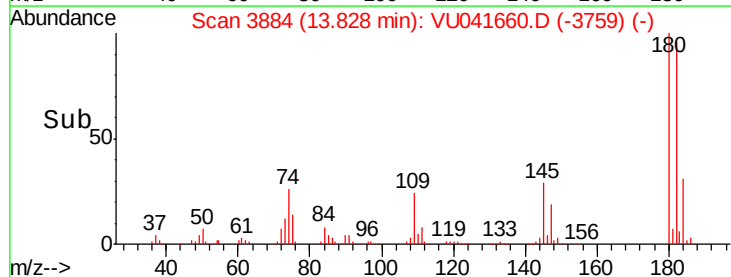
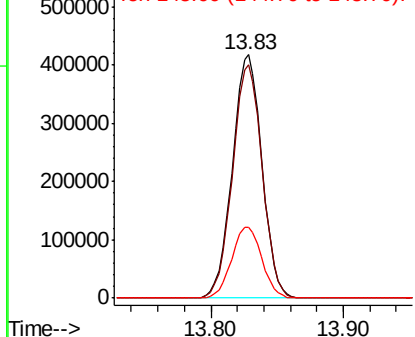


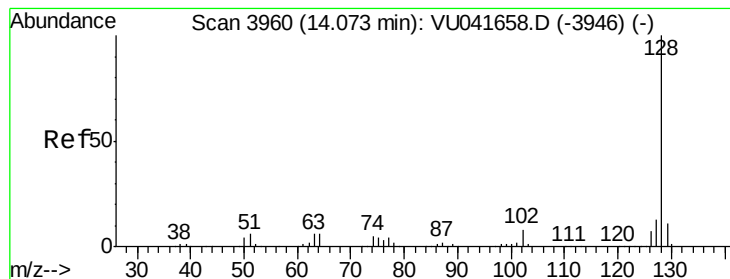
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 277.481 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

Instrument :

MSVOA\_U

ClientSampleId :

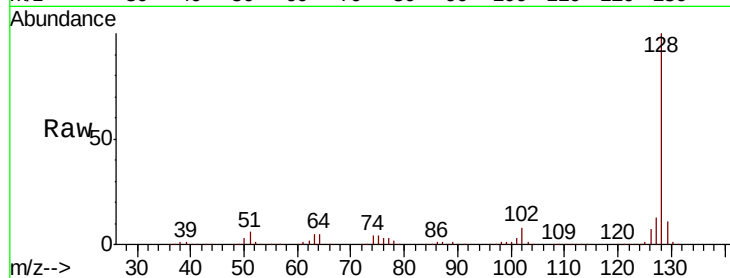
Tot Ion:128 Resp: 2228981

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

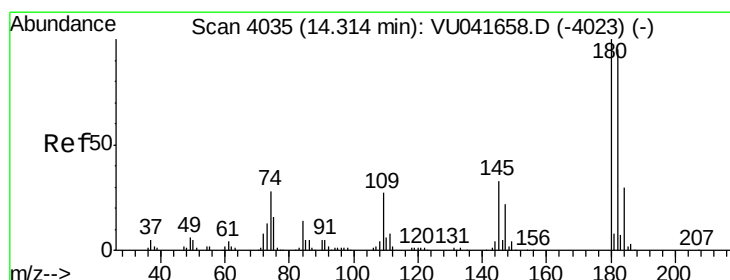
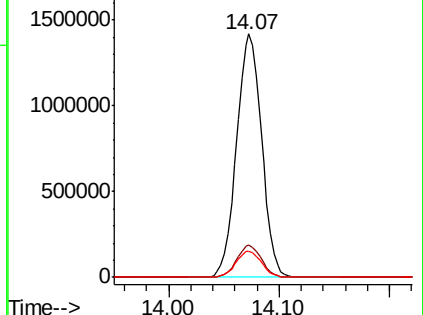
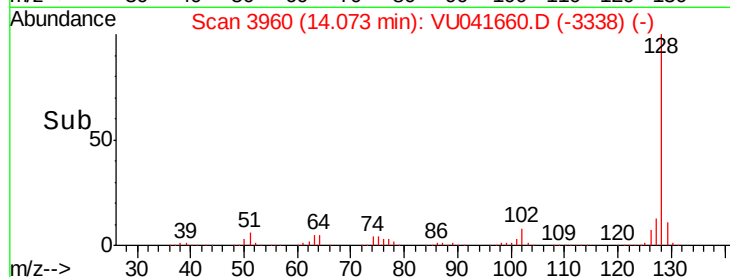
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 242.482 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU041660.D

Acq: 16 Dec 2020 10:43

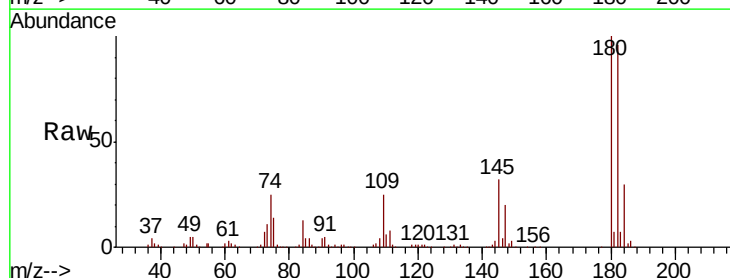
Tgt Ion:180 Resp: 615517

Ion Ratio Lower Upper

180 100

182 96.2 75.8 113.6

145 31.9 26.2 39.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

