

Data File : VU041384.D  
Acq On : 23 Nov 2020 13:06  
Operator : SY/MD  
Sample : VSTD01001  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

Quant Time: Nov 24 01:07:06 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:04:42 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 75920    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 77297    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 40771    | 5.00 | ug/L  | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.60  | 65  | 53645  | 9.85  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.92  | 69  | 36321  | 8.12  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.58  | 63  | 108271 | 9.54  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.64  | 46  | 138145 | 66.56 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.08  | 84  | 107038 | 9.05  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.72  | 65  | 61360  | 8.15  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.74  | 84  | 191803 | 9.47  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.70  | 67  | 60694  | 8.66  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.91  | 98  | 186566 | 9.75  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.19  | 79  | 27957  | 9.32  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.64  | 63  | 100210 | 67.66 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75 | 84  | 49529  | 7.38  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.19 | 152 | 64528  | 8.43  | ug/L | 0.00 |

Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 75719  | 11.607 ug/L | 100    |
| 3) Chloromethane               | 1.53 | 50  | 62849  | 9.398 ug/L  | 95     |
| 5) Vinyl chloride              | 1.61 | 62  | 67983  | 10.368 ug/L | 97     |
| 6) Bromomethane                | 1.86 | 94  | 27556  | 7.549 ug/L  | 99     |
| 8) Chloroethane                | 1.94 | 64  | 35994  | 8.538 ug/L  | 95     |
| 9) Trichlorofluoromethane      | 2.14 | 101 | 107085 | 10.401 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 56200  | 10.145 ug/L | 97     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 50976  | 10.369 ug/L | 92     |
| 13) Acetone                    | 2.63 | 43  | 93698  | 66.607 ug/L | 97     |
| 14) Carbon disulfide           | 2.80 | 76  | 173332 | 11.598 ug/L | 99     |
| 15) Methyl Acetate             | 2.96 | 43  | 23954  | 8.091 ug/L  | 98     |
| 16) Methylene chloride         | 3.06 | 84  | 56804  | 9.155 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 127010 | 9.560 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 52546  | 10.796 ug/L | 94     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 105019 | 9.839 ug/L  | 99     |
| 21) 2-Butanone                 | 4.72 | 43  | 155224 | 72.801 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96  | 57111  | 10.609 ug/L | 96     |
| 23) Bromochloromethane         | 4.99 | 128 | 25924  | 9.728 ug/L  | 99     |
| 25) Chloroform                 | 5.11 | 83  | 111114 | 9.594 ug/L  | 98     |
| 27) 1,2-Dichloroethane         | 5.81 | 62  | 75963  | 9.299 ug/L  | 99     |
| 29) 1,1,1-Trichloroethane      | 5.33 | 97  | 99891  | 10.352 ug/L | 99     |
| 30) Cyclohexane                | 5.40 | 56  | 93867  | 11.643 ug/L | 99     |
| 31) Carbon tetrachloride       | 5.54 | 117 | 90747  | 10.816 ug/L | 99     |
| 33) Benzene                    | 5.79 | 78  | 227308 | 10.792 ug/L | 100    |
| 34) Trichloroethene            | 6.55 | 95  | 59034  | 10.283 ug/L | 97     |
| 35) Methylcyclohexane          | 6.77 | 83  | 92067  | 11.724 ug/L | 100    |
| 37) 1,2-Dichloropropane        | 6.80 | 63  | 60377  | 9.909 ug/L  | 98     |
| 38) Bromodichloromethane       | 7.11 | 83  | 80107  | 9.948 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.62 | 75  | 86326  | 10.166 ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.80 | 43  | 384140 | 80.870 ug/L | 99     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 24 01:04:42 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.98  | 91   | 243976   | 10.838 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 8.22  | 75   | 78687    | 9.870  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.40  | 97   | 41103    | 8.975  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.56  | 164  | 44311    | 10.471 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.69  | 43   | 285148   | 81.225 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.82  | 129  | 51838    | 9.431  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 39855    | 9.323  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.45  | 112  | 149943   | 10.084 | ug/L  | 97       |
| 52) Ethylbenzene               | 9.57  | 91   | 264982   | 10.920 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.70  | 106  | 100728   | 11.471 | ug/L  | 95       |
| 54) o-Xylene                   | 10.10 | 106  | 95346    | 11.340 | ug/L  | 100      |
| 55) Styrene                    | 10.11 | 104  | 167231   | 11.329 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.48 | 105  | 260786   | 11.533 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 51236    | 8.404  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.82 | 75   | 38714    | 8.245  | ug/L  | 99       |
| 61) Bromoform                  | 10.29 | 173  | 29211    | 8.084  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.74 | 146  | 119521   | 9.730  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.83 | 146  | 120031   | 9.542  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.21 | 146  | 110243   | 9.204  | ug/L  | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 8285     | 7.593  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 82575    | 9.526  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.83 | 180  | 67988    | 9.583  | ug/L  | 99       |
| 69) Naphthalene                | 14.08 | 128  | 106744   | 9.330  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 60619    | 9.146  | ug/L  | 99       |

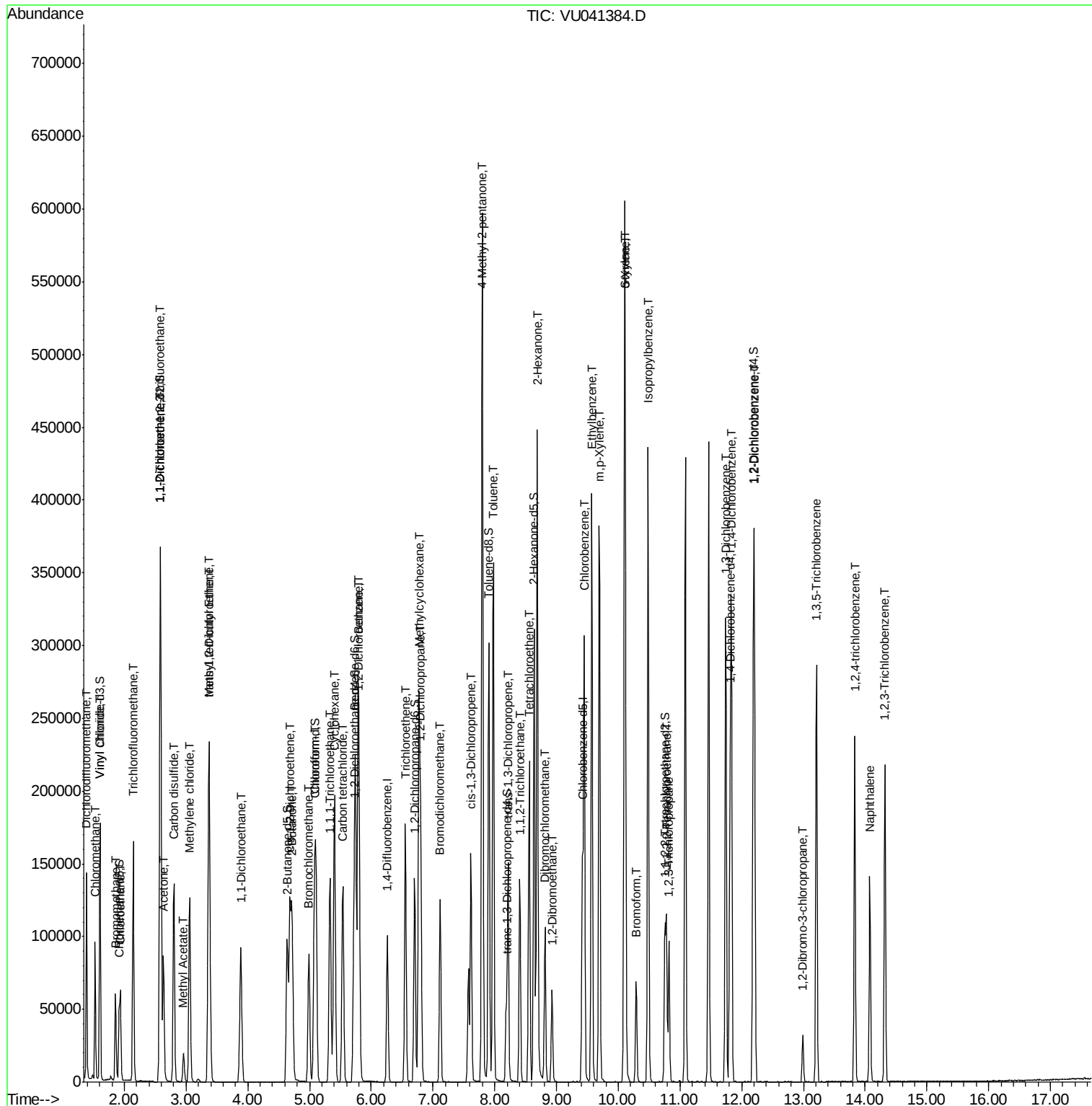
(#) = qualifier out of range (m) = manual integration (+) = signals summed

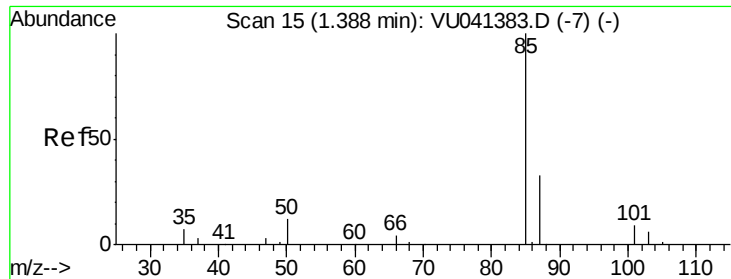
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```
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MSVOA\_U  
**ClientSampleId :**  
VSTD01001

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Quant Title : TRACE VOA SOM01.0  
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#2

Dichlorodifluoromethane

Concen: 11.607 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

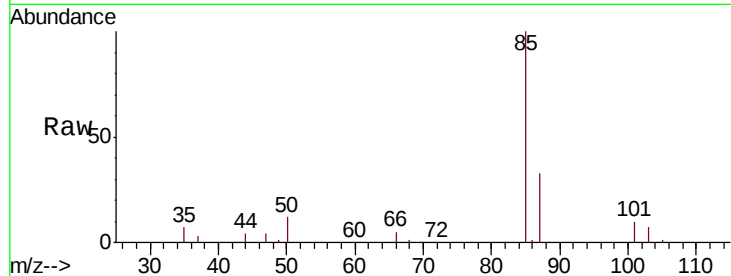
VSTD01001

Tgt Ion: 85 Resp: 75719

Ion Ratio Lower Upper

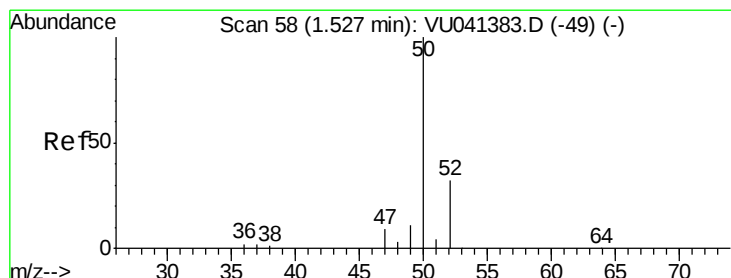
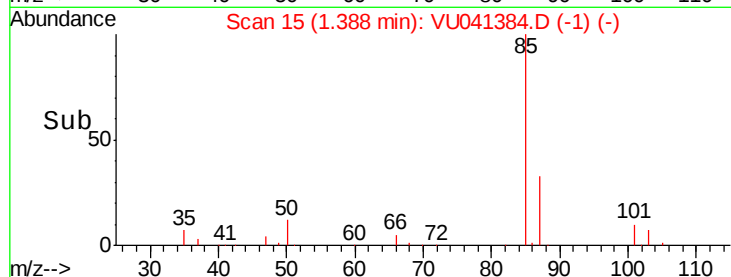
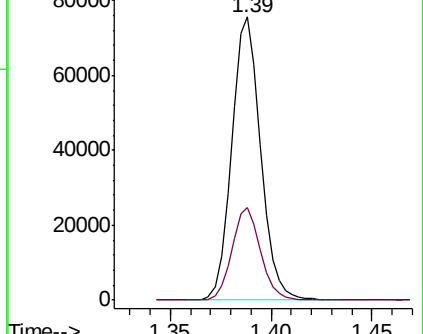
85 100

87 32.5 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 9.398 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU041384.D

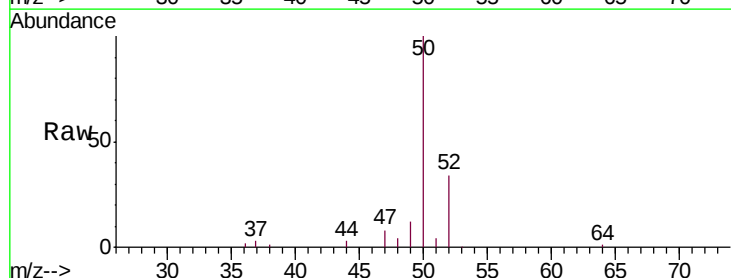
Acq: 23 Nov 2020 13:06

Tgt Ion: 50 Resp: 62849

Ion Ratio Lower Upper

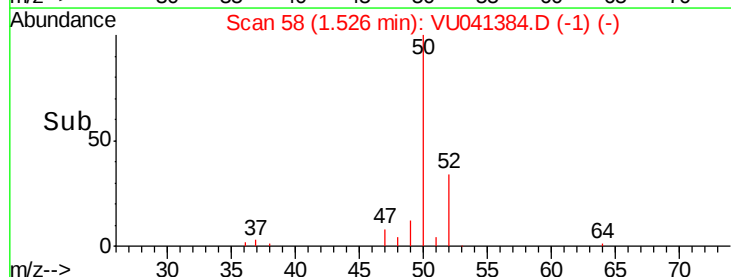
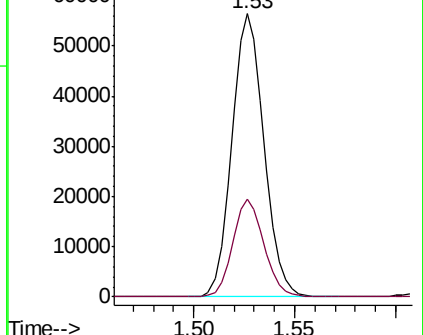
50 100

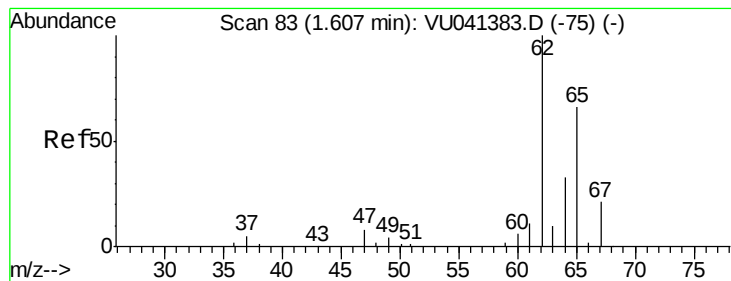
52 34.4 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 10.368 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

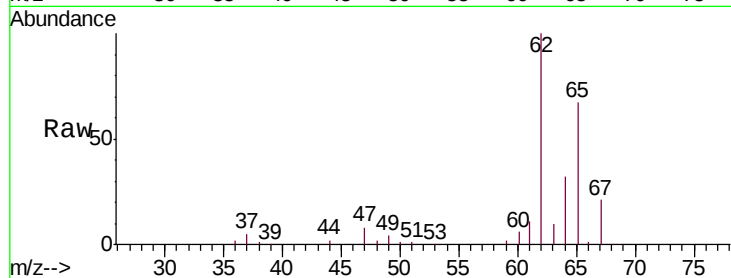
VSTD01001

Tgt Ion: 62 Resp: 67983

Ion Ratio Lower Upper

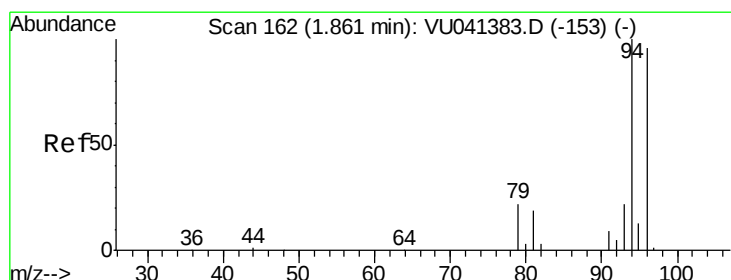
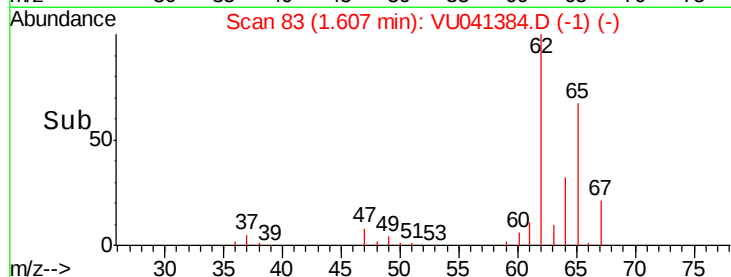
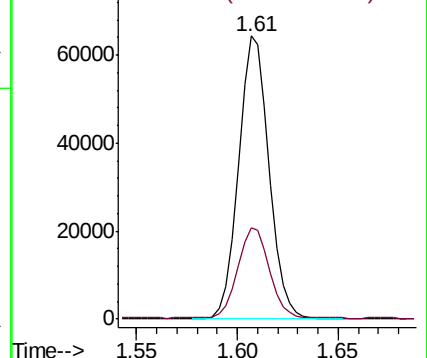
62 100

64 32.4 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 7.549 ug/L

RT: 1.86 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU041384.D

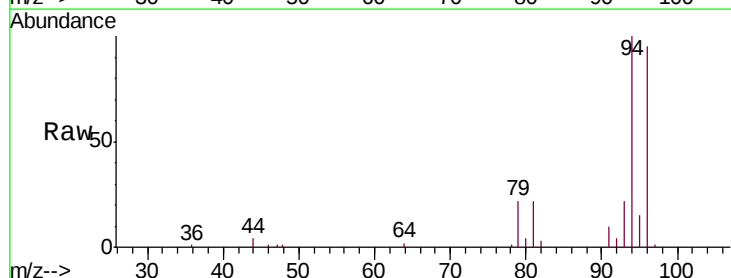
Acq: 23 Nov 2020 13:06

Tgt Ion: 94 Resp: 27556

Ion Ratio Lower Upper

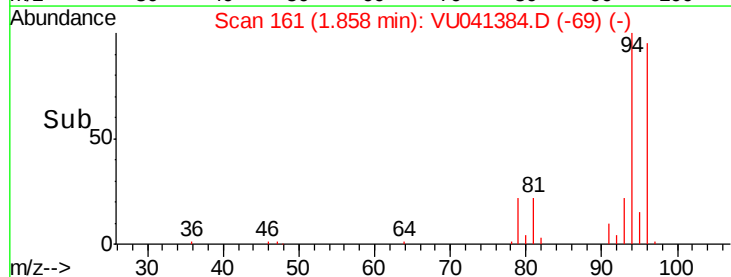
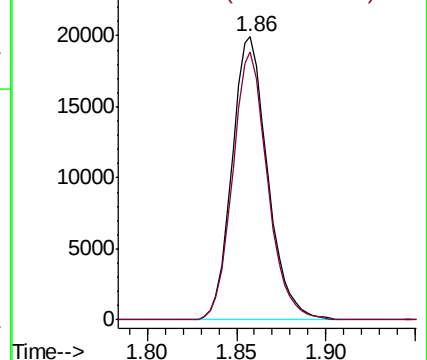
94 100

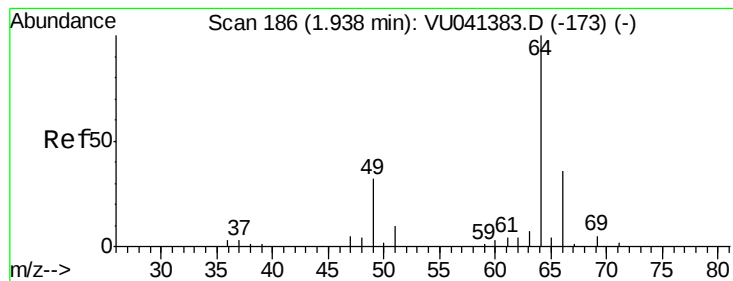
96 94.6 67.2 124.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 8.538 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

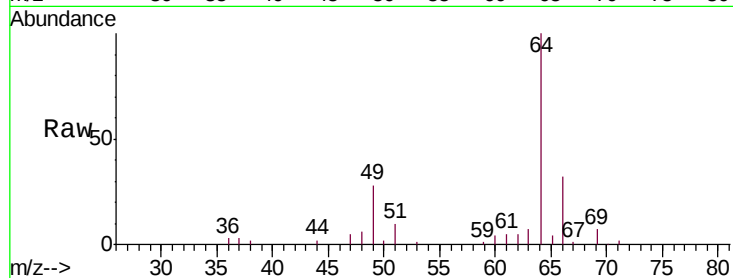
VSTD01001

Tgt Ion: 64 Resp: 35994

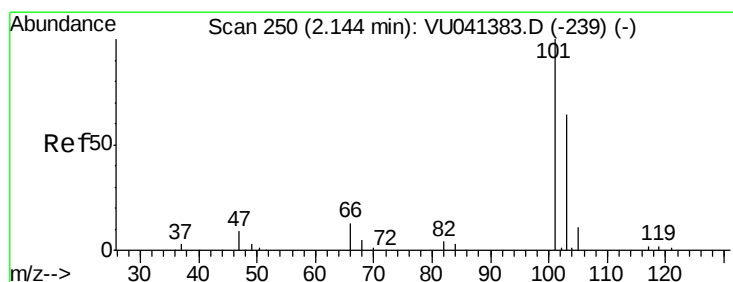
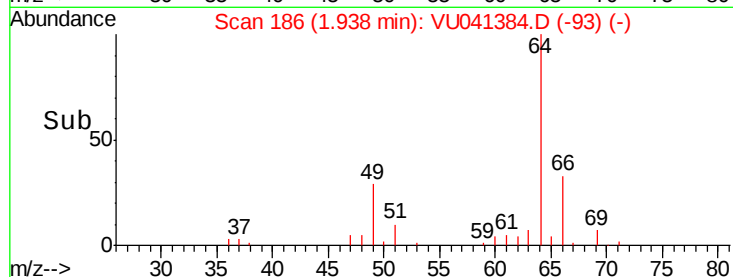
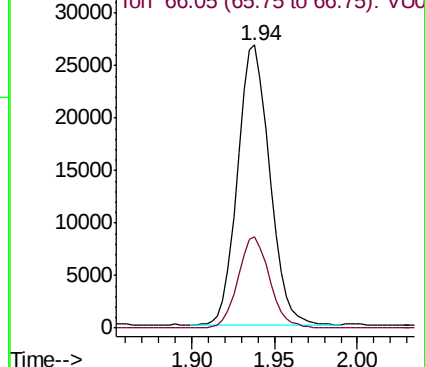
Ion Ratio Lower Upper

64 100

66 32.1 24.6 45.8



Abundance Ion 64.10 (63.80 to 64.80): VU041384.D (-173) (-)



#9

Trichlorofluoromethane

Concen: 10.401 ug/L

RT: 2.14 min Scan# 250

Delta R.T. -0.00 min

Lab File: VU041384.D

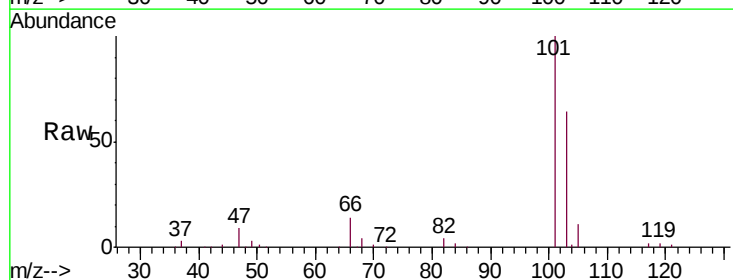
Acq: 23 Nov 2020 13:06

Tgt Ion: 101 Resp: 107085

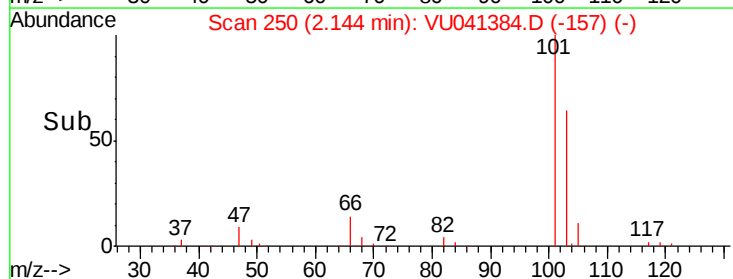
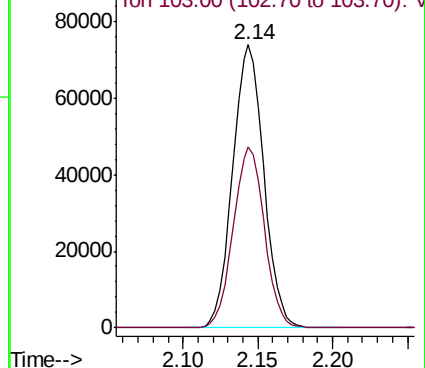
Ion Ratio Lower Upper

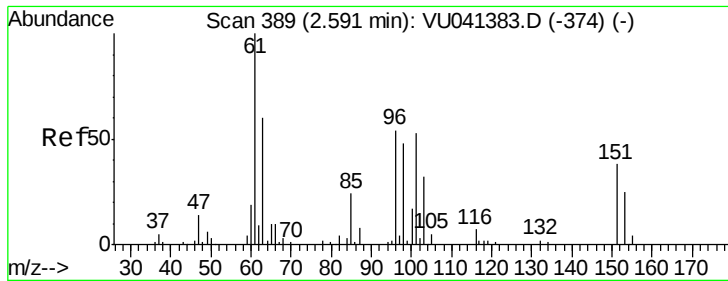
101 100

103 63.9 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU041384.D (-239) (-)





#10

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

Concen: 10.145 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01001

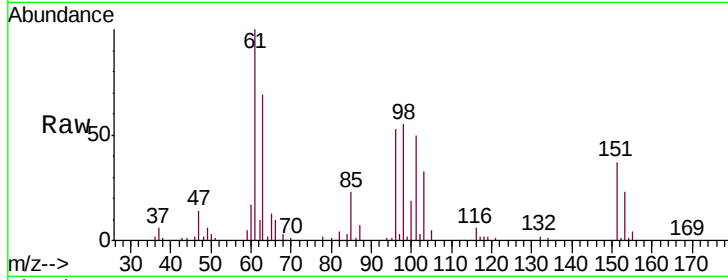
Tgt Ion: 101 Resp: 56200

Ion Ratio Lower Upper

101 100

85 45.7 35.1 52.7

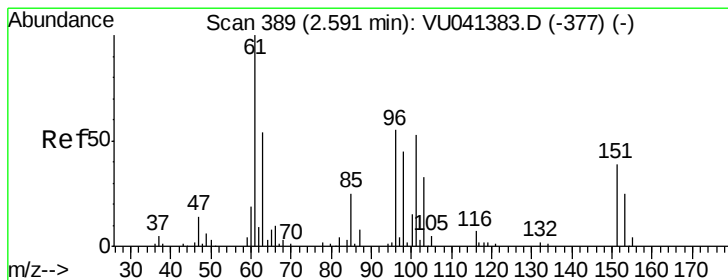
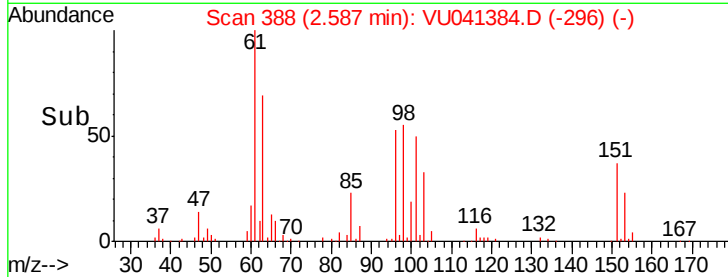
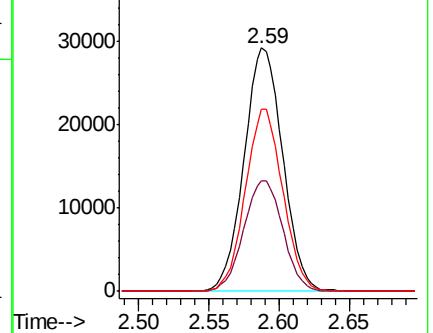
151 72.4 56.2 84.2



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: 10.369 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

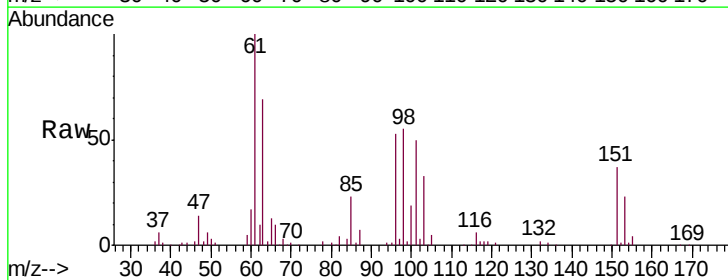
Tgt Ion: 96 Resp: 50976

Ion Ratio Lower Upper

96 100

61 188.9 129.8 241.2

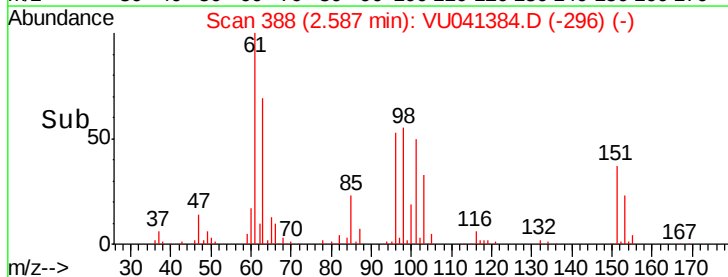
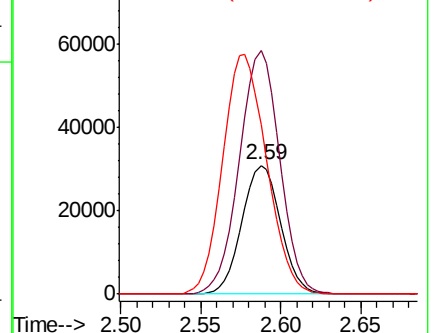
63 131.0 79.2 147.0

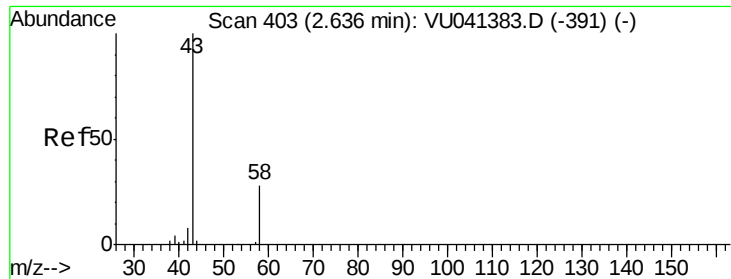


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 66.607 ug/L

RT: 2.63 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

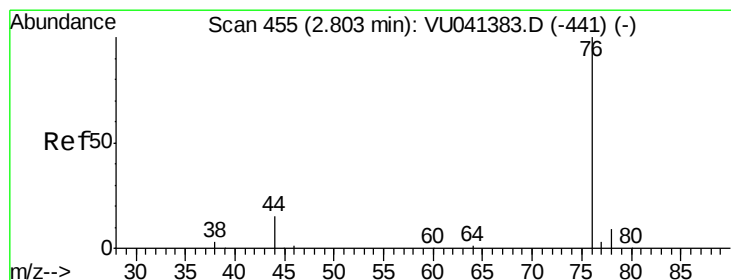
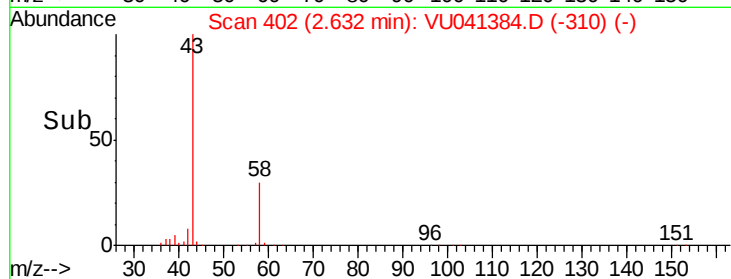
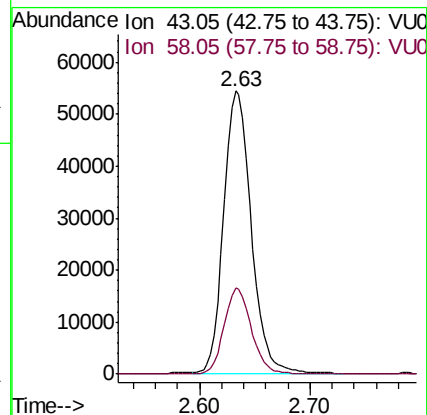
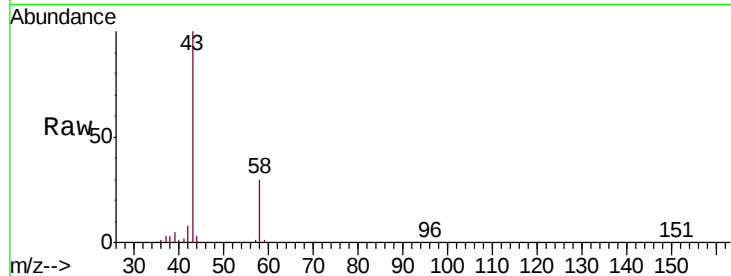
VSTD01001

Tgt Ion: 43 Resp: 93698

Ion Ratio Lower Upper

43 100

58 30.4 0.0 57.8



#14

Carbon disulfide

Concen: 11.598 ug/L

RT: 2.80 min Scan# 455

Delta R.T. -0.00 min

Lab File: VU041384.D

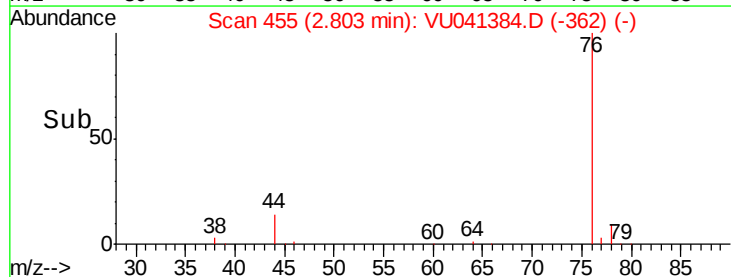
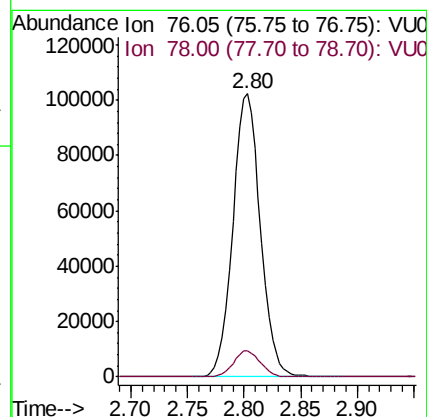
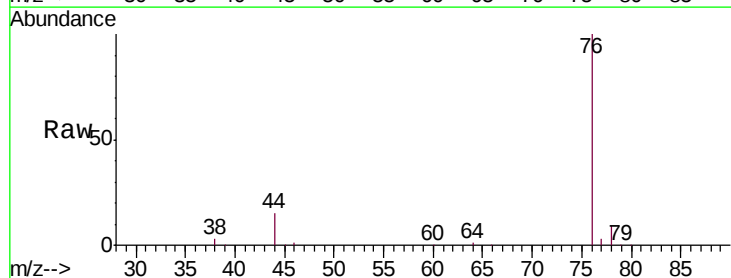
Acq: 23 Nov 2020 13:06

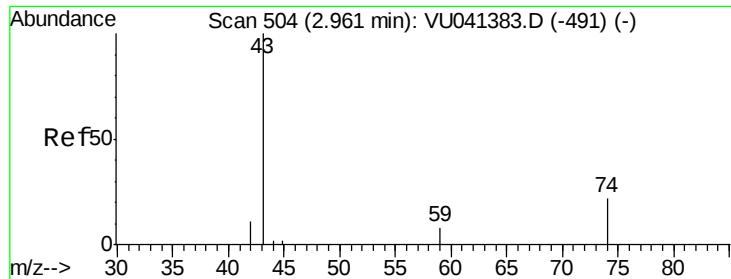
Tgt Ion: 76 Resp: 173332

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6





#15

Methyl Acetate

Concen: 8.091 ug/L

RT: 2.96 min Scan# 504

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampled :

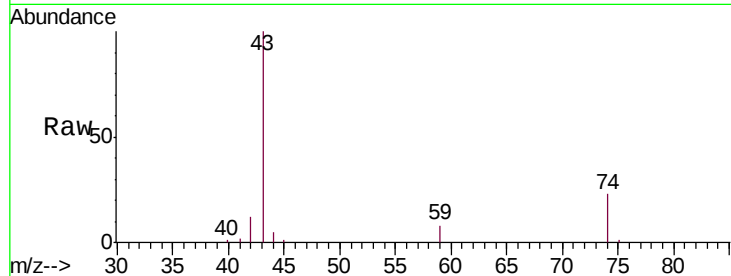
VSTD01001

Tgt Ion: 43 Resp: 23954

Ion Ratio Lower Upper

43 100

74 22.1 17.0 25.6



Abundance Ion 43.05 (42.75 to 43.75): VU041383.D (-491) (-)

Ion 74.05 (73.75 to 74.75): VU041383.D (-491) (-)

2.96

15000

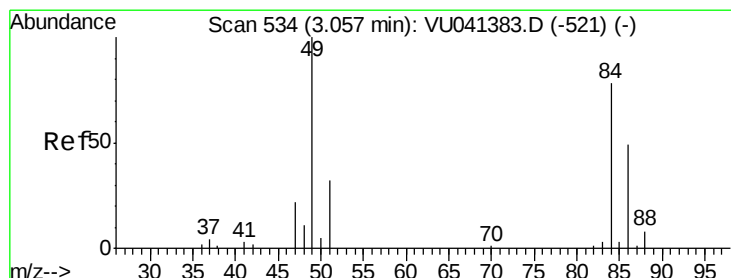
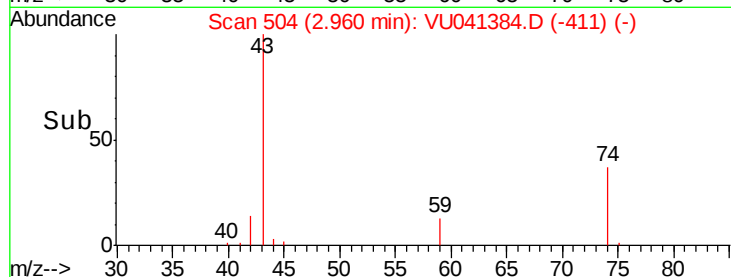
10000

5000

0

Time-->

2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 9.155 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

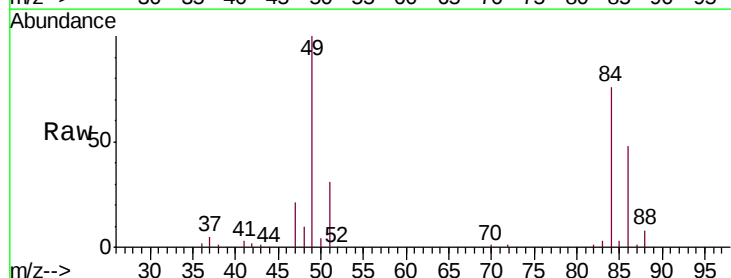
Tgt Ion: 84 Resp: 56804

Ion Ratio Lower Upper

84 100

86 62.9 44.4 82.5

49 132.3 89.9 167.0



Abundance Ion 84.05 (83.75 to 84.75): VU041383.D (-521) (-)

Ion 86.00 (85.70 to 86.70): VU041383.D (-521) (-)

Ion 49.10 (48.80 to 49.80): VU041383.D (-521) (-)

50000

40000

30000

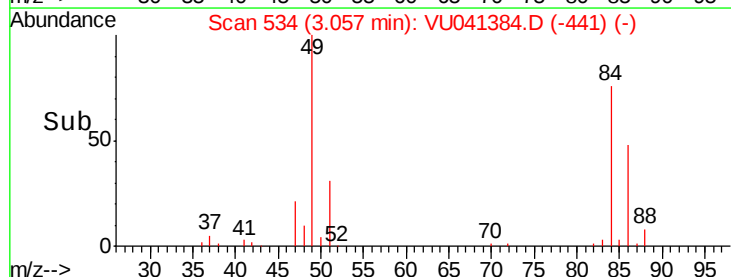
20000

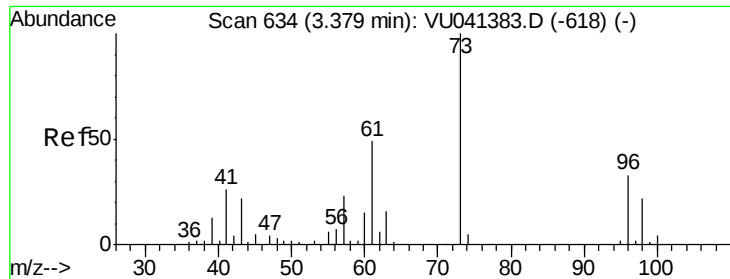
10000

0

Time-->

3.00 3.05 3.10 3.15

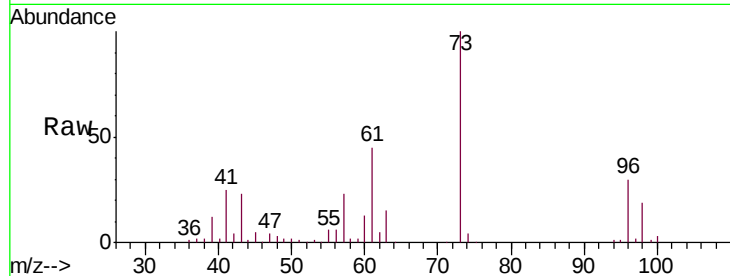




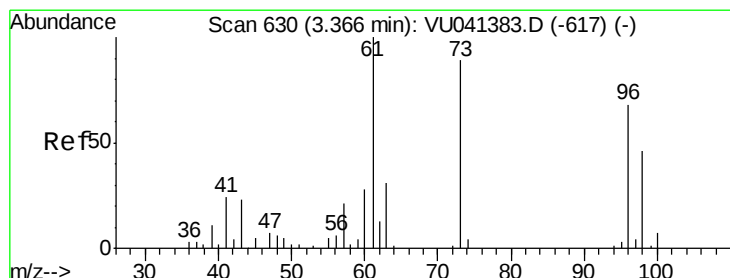
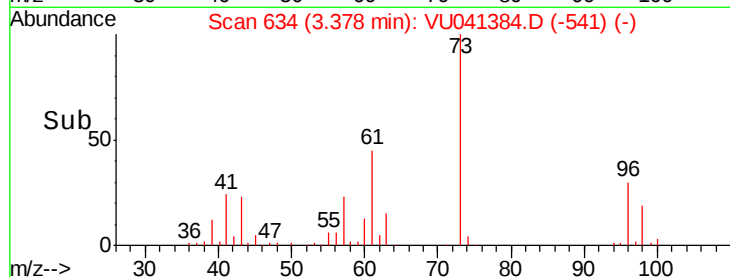
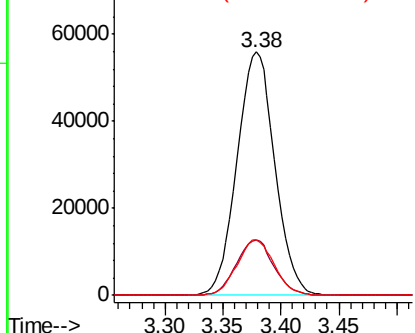
#17  
Methyl tert-butyl Ether  
Concen: 9.560 ug/L  
RT: 3.38 min Scan# 634  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

Tgt Ion: 73 Resp: 127010  
Ion Ratio Lower Upper  
73 100  
43 22.7 18.3 27.5  
57 22.6 17.7 26.5

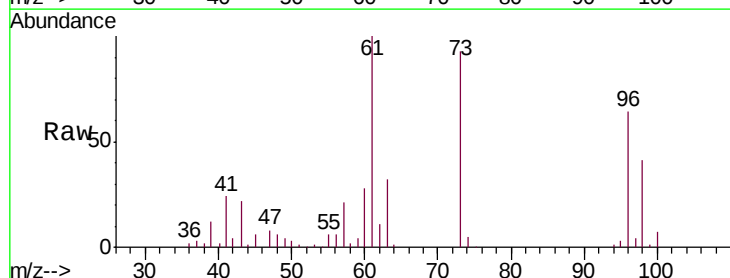


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

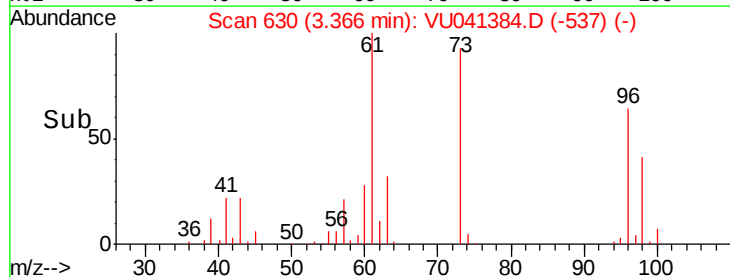
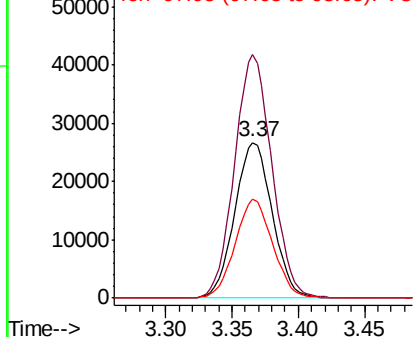


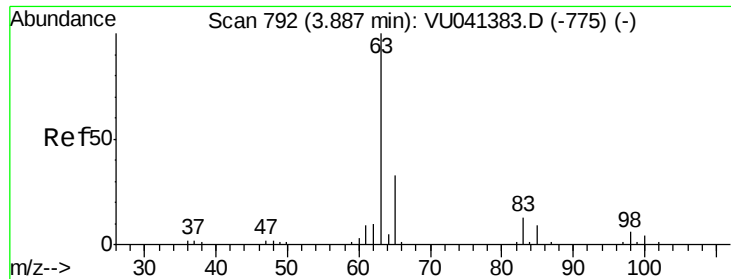
#18  
trans-1,2-Dichloroethene  
Concen: 10.796 ug/L  
RT: 3.37 min Scan# 630  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Tgt Ion: 96 Resp: 52546  
Ion Ratio Lower Upper  
96 100  
61 156.2 103.7 192.5  
98 63.4 47.5 88.3



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

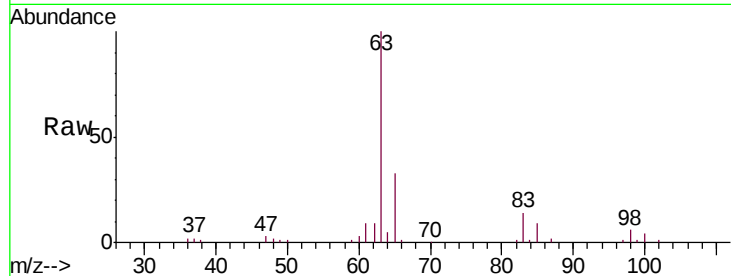




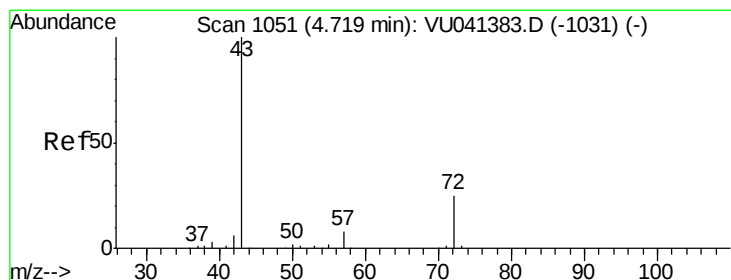
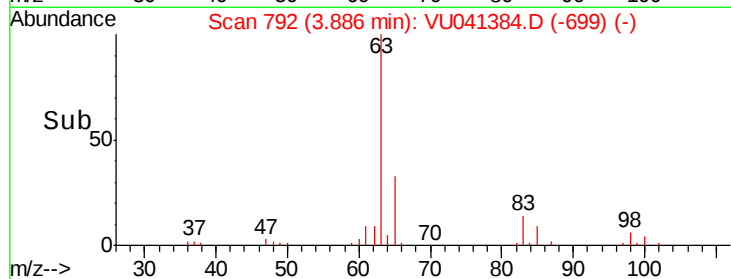
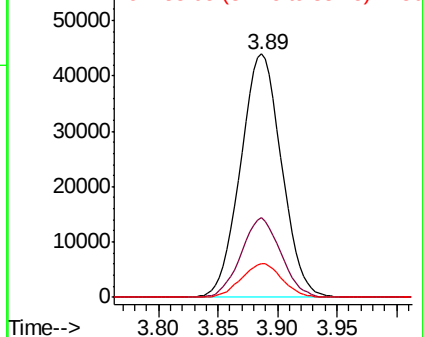
#19  
 1,1-Dichloroethane  
 Concen: 9.839 ug/L  
 RT: 3.89 min Scan# 792  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

Tgt Ion: 63 Resp: 105019  
 Ion Ratio Lower Upper  
 63 100  
 65 32.5 23.0 42.8  
 83 13.9 9.4 17.4

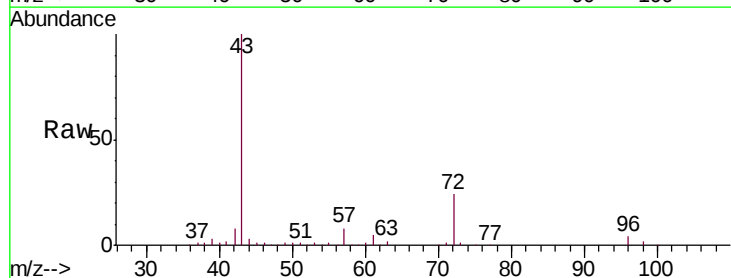


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

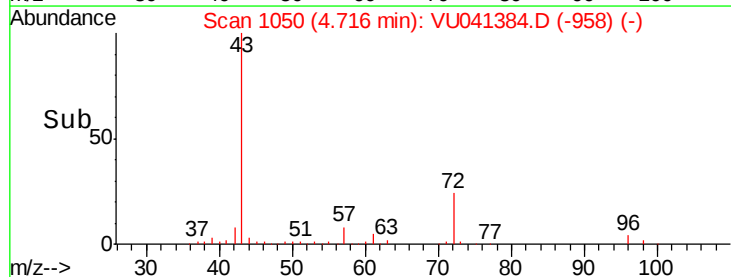
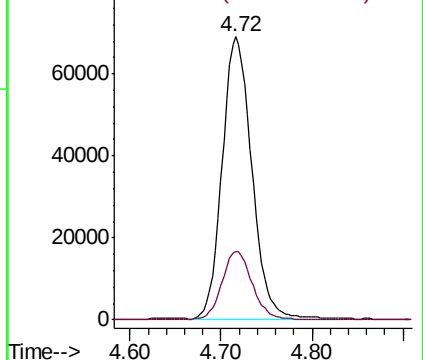


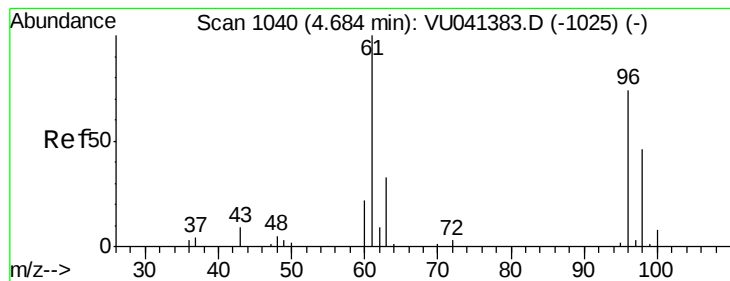
#21  
 2-Butanone  
 Concen: 72.801 ug/L  
 RT: 4.72 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 43 Resp: 155224  
 Ion Ratio Lower Upper  
 43 100  
 72 25.2 12.6 37.6



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 10.609 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01001

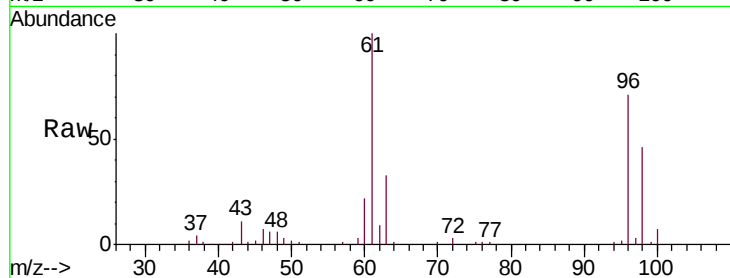
Tgt Ion: 96 Resp: 57111

Ion Ratio Lower Upper

96 100

61 141.1 95.3 176.9

68 0.0 0.0 0.0

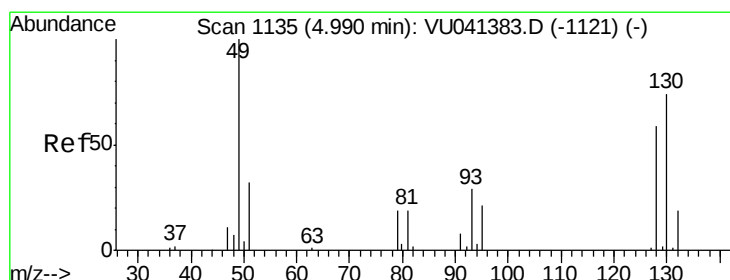
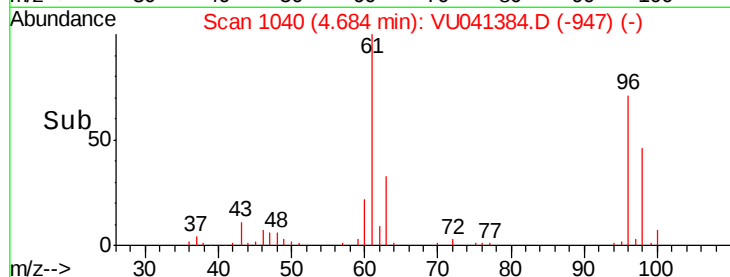
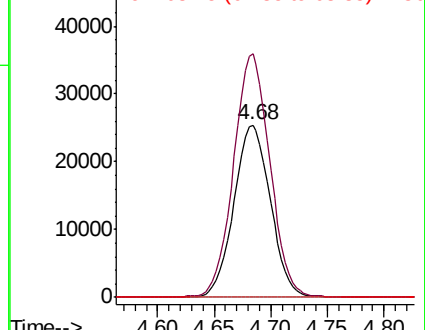


Abundance

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: 9.728 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Tgt Ion: 128 Resp: 25924

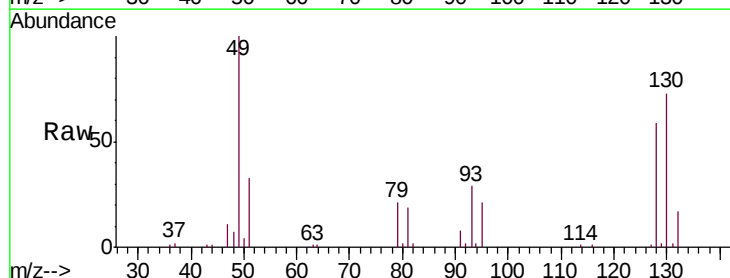
Ion Ratio Lower Upper

128 100

49 170.9 118.9 220.9

130 124.4 88.3 163.9

51 55.8 43.2 64.8



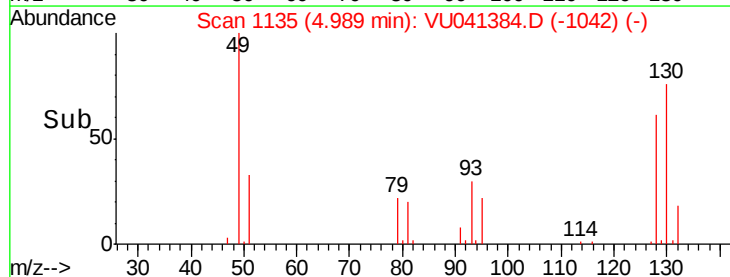
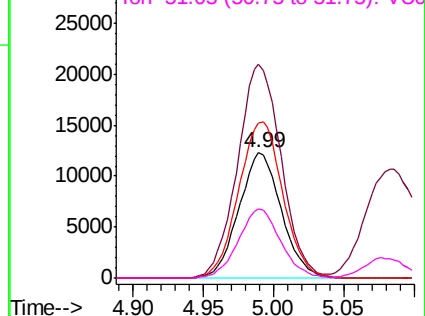
Abundance

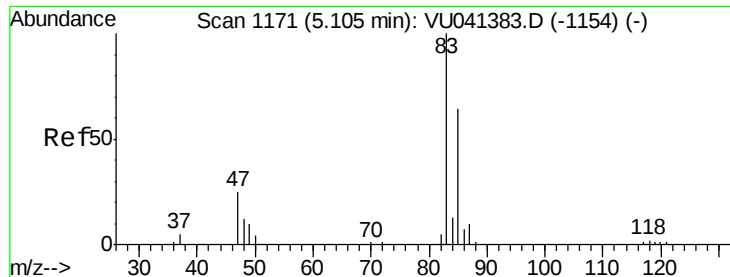
Ion 127.90 (127.60 to 128.60): V

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

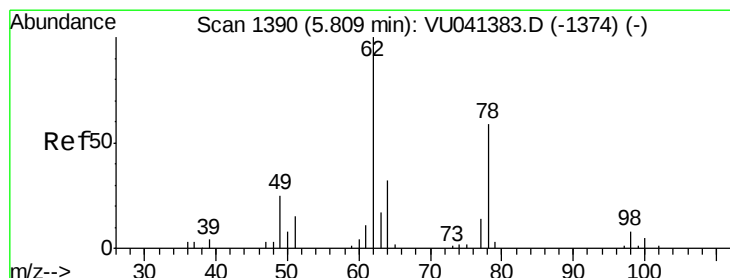
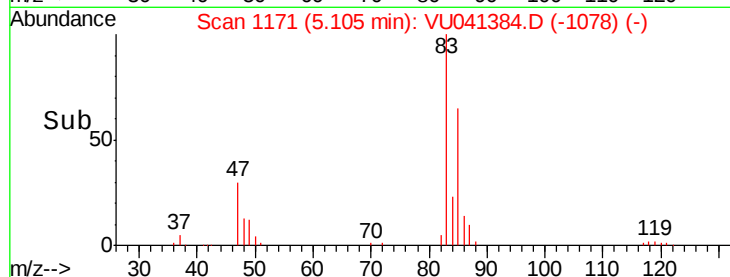
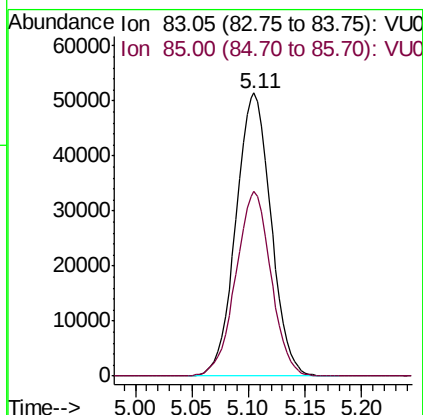
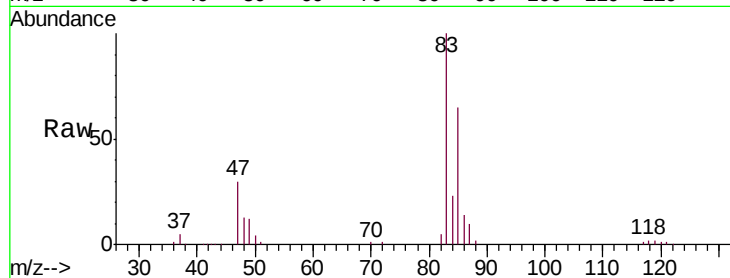




#25  
Chloroform  
Concen: 9.594 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

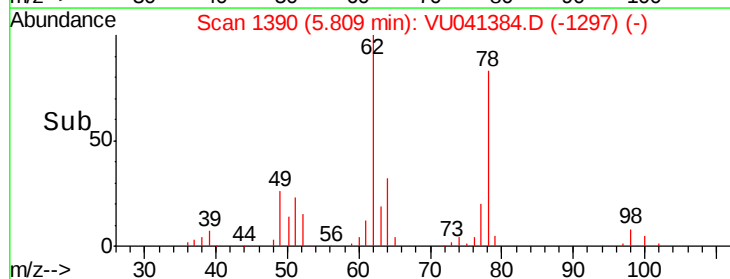
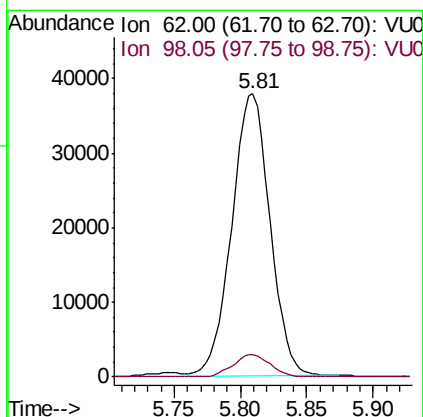
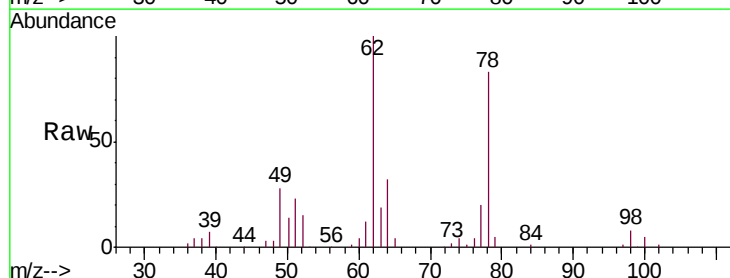
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

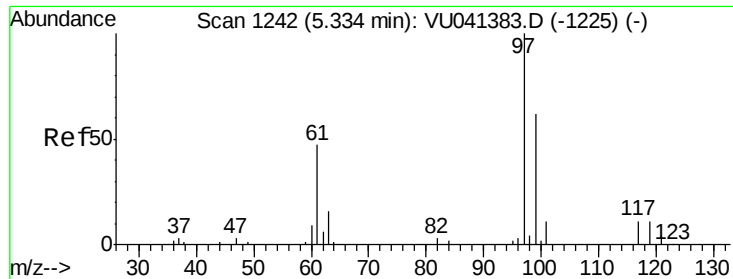
Tgt Ion: 83 Resp: 111114  
Ion Ratio Lower Upper  
83 100  
85 65.1 44.7 82.9



#27  
1,2-Dichloroethane  
Concen: 9.299 ug/L  
RT: 5.81 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Tgt Ion: 62 Resp: 75963  
Ion Ratio Lower Upper  
62 100  
98 7.9 6.0 9.0

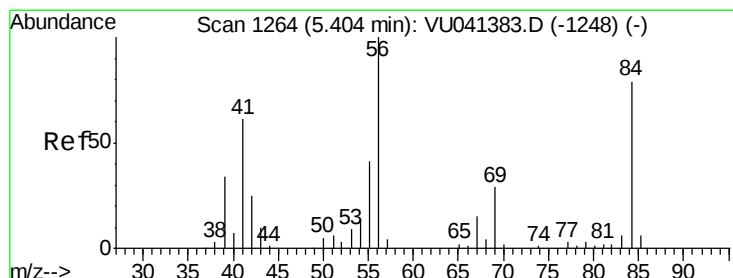
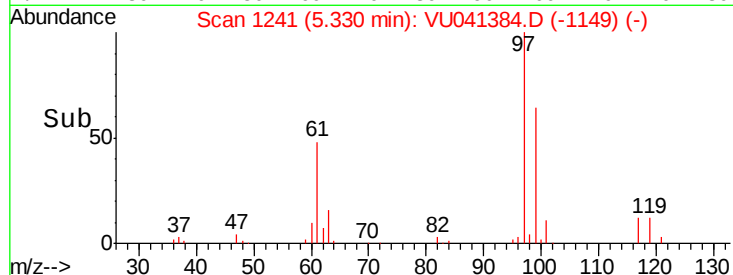
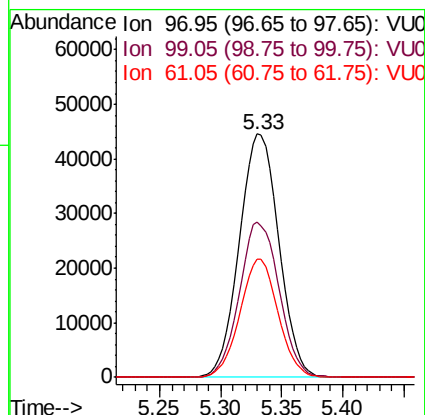
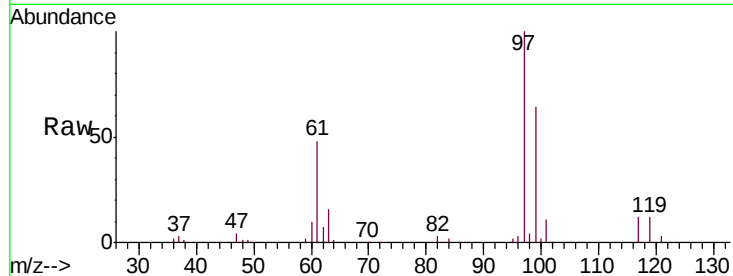




#29  
 1,1,1-Trichloroethane  
 Concen: 10.352 ug/L  
 RT: 5.33 min Scan# 1241  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

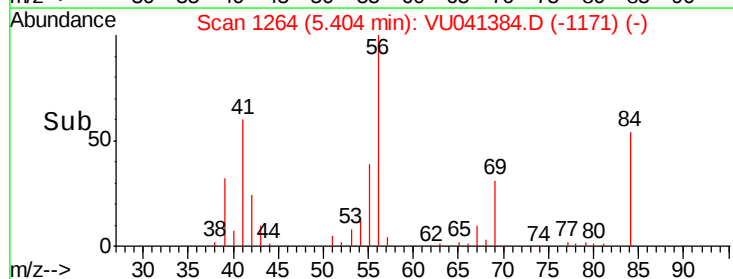
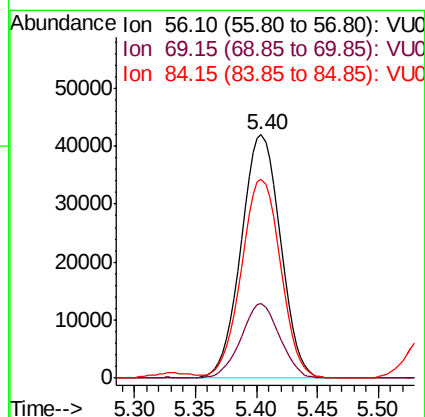
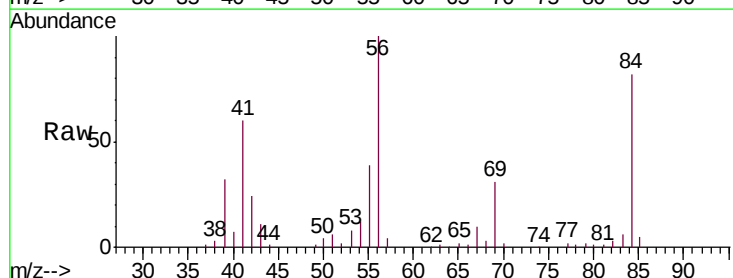
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

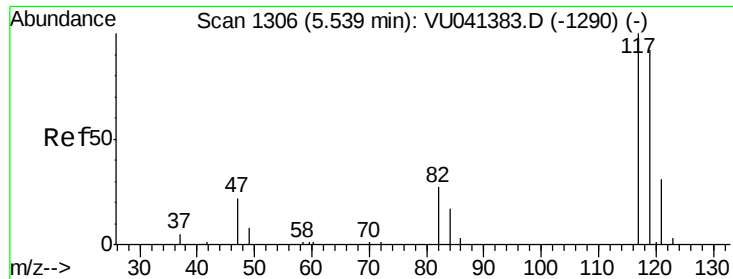
Tgt Ion: 97 Resp: 99891  
 Ion Ratio Lower Upper  
 97 100  
 99 64.0 51.8 77.6  
 61 46.7 37.8 56.6



#30  
 Cyclohexane  
 Concen: 11.643 ug/L  
 RT: 5.40 min Scan# 1264  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 56 Resp: 93867  
 Ion Ratio Lower Upper  
 56 100  
 69 30.1 23.8 35.6  
 84 81.4 64.6 97.0





#31

Carbon tetrachloride

Concen: 10.816 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

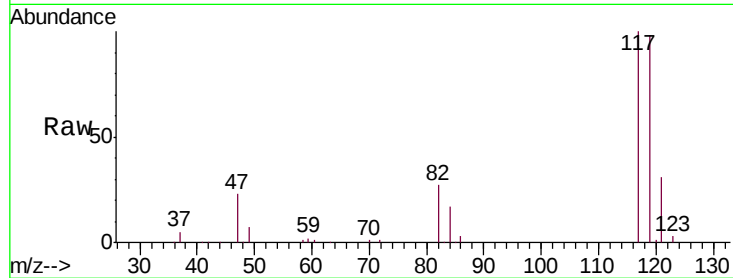
VSTD01001

Tgt Ion:117 Resp: 90747

Ion Ratio Lower Upper

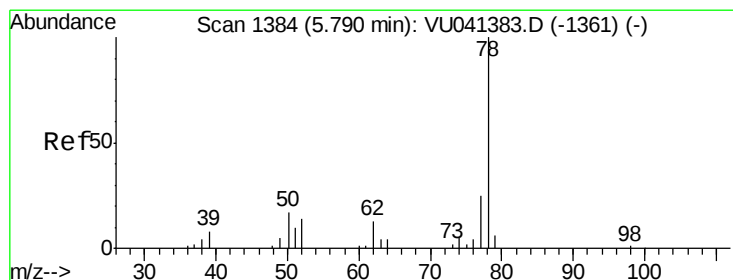
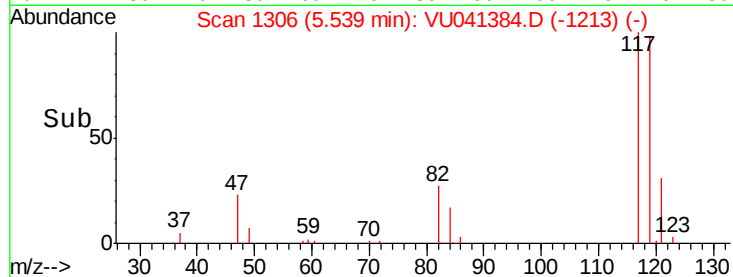
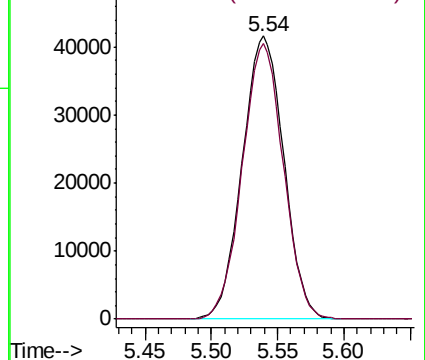
117 100

119 96.2 75.9 113.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 10.792 ug/L

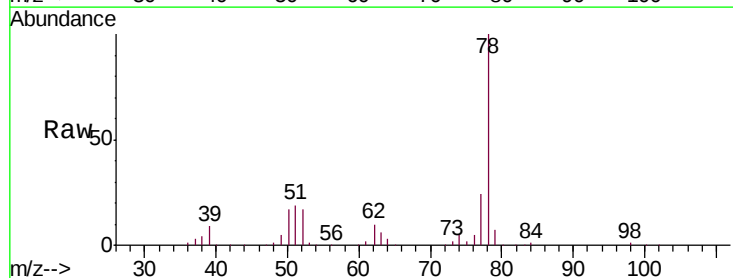
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

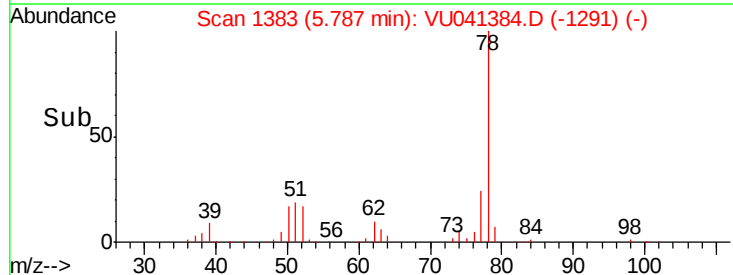
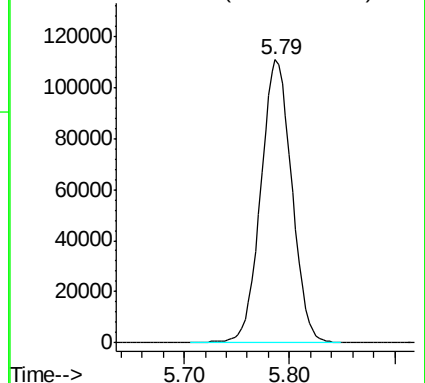
Lab File: VU041384.D

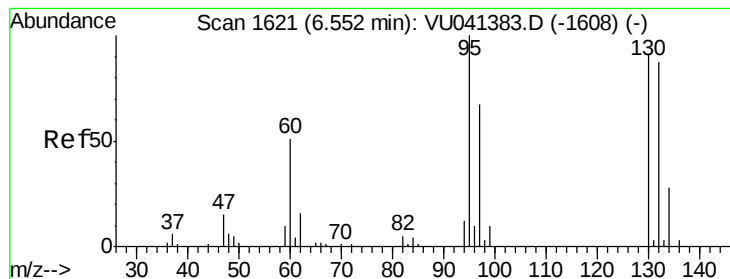
Acq: 23 Nov 2020 13:06

Tgt Ion: 78 Resp: 227308



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 10.283 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01001

Tgt Ion: 95 Resp: 59034

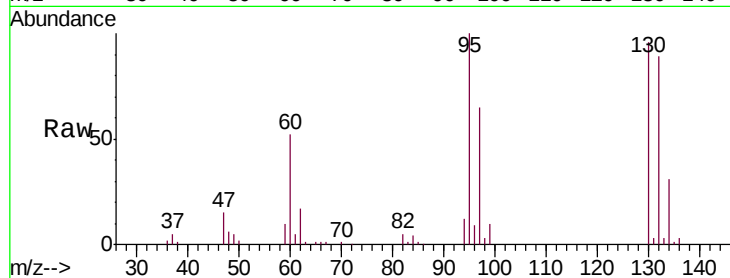
Ion Ratio Lower Upper

95 100

97 65.1 46.5 86.5

132 89.2 60.8 113.0

130 95.8 63.3 117.7

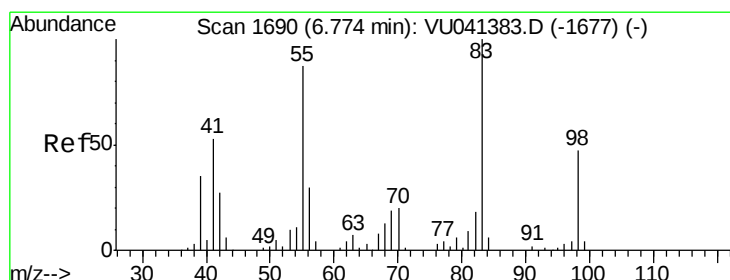
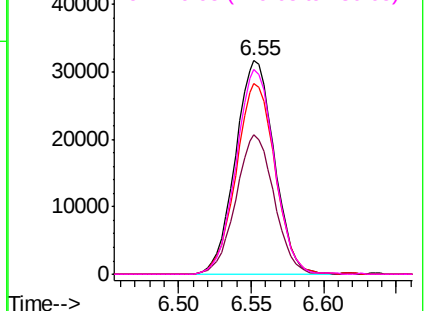
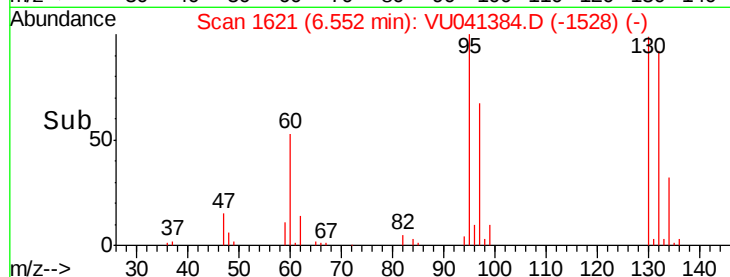


Abundance Ion 95.00 (94.70 to 95.70): VU041384.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU041384.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU041384.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU041384.D (-1528) (-)



#35

Methylcyclohexane

Concen: 11.724 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

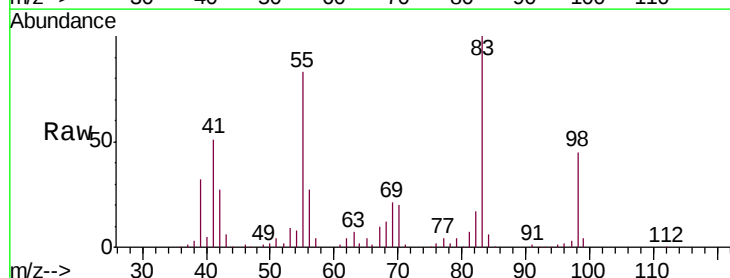
Tgt Ion: 83 Resp: 92067

Ion Ratio Lower Upper

83 100

55 85.8 68.4 102.6

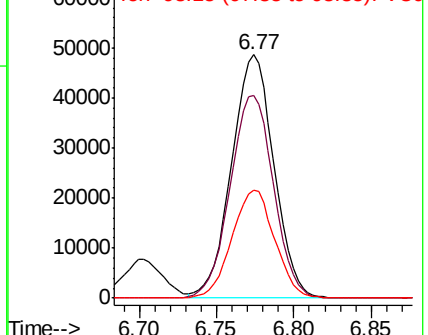
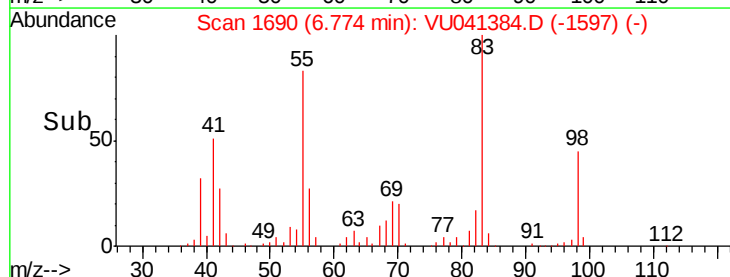
98 45.1 36.5 54.7

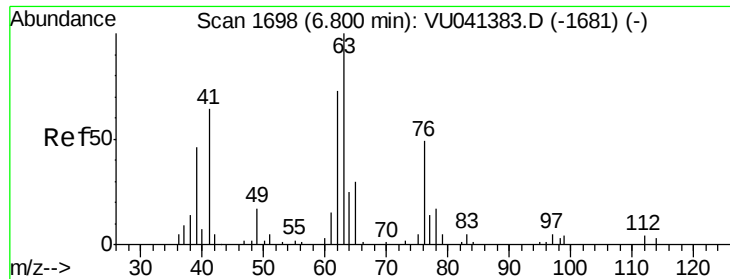


Abundance Ion 83.15 (82.85 to 83.85): VU041384.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU041384.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU041384.D (-1597) (-)

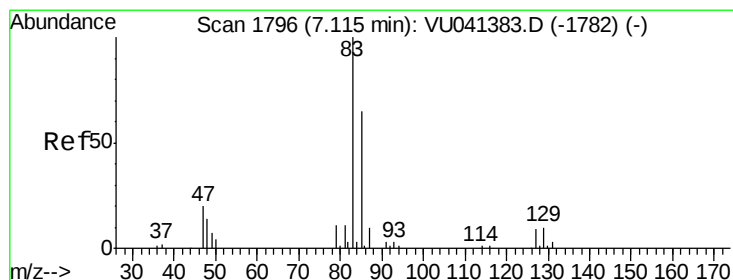
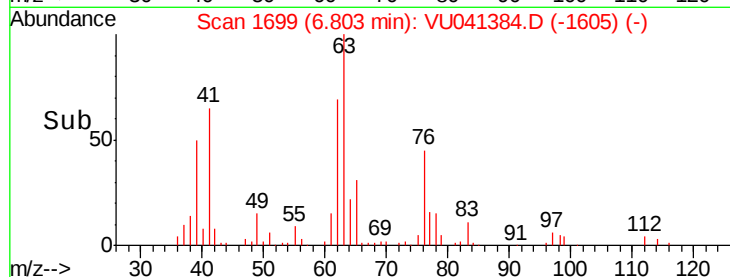
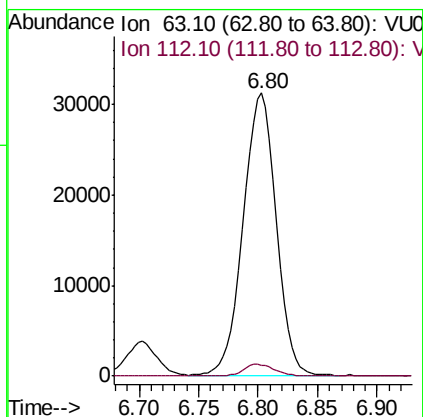
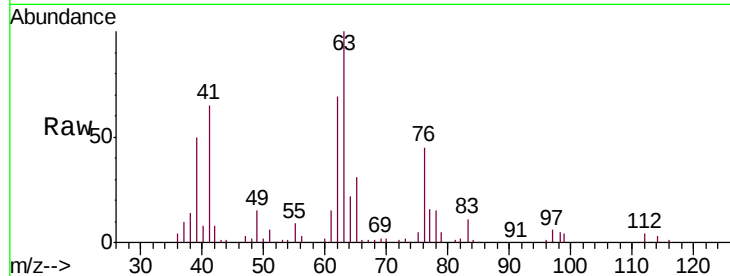




#37  
 1,2-Dichloropropane  
 Concen: 9.909 ug/L  
 RT: 6.80 min Scan# 1699  
 Delta R.T. 0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

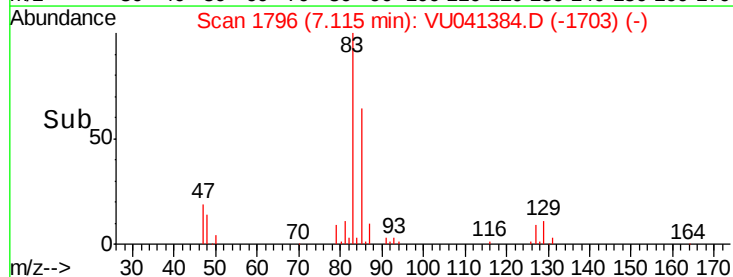
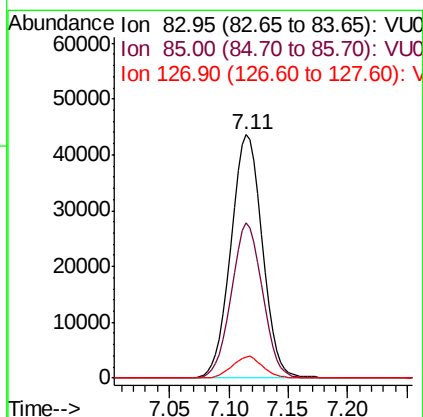
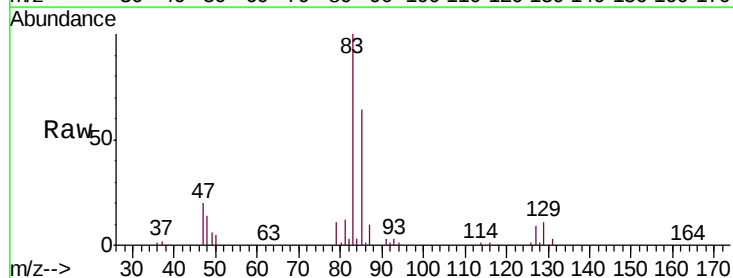
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

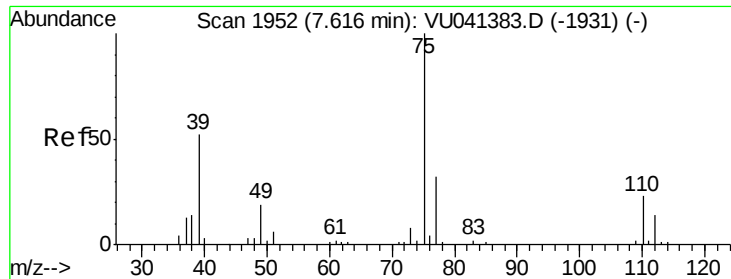
Tgt Ion: 63 Resp: 60377  
 Ion Ratio Lower Upper  
 63 100  
 112 3.9 2.6 4.0



#38  
 Bromodichloromethane  
 Concen: 9.948 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 83 Resp: 80107  
 Ion Ratio Lower Upper  
 83 100  
 85 63.8 45.7 84.9  
 127 8.7 7.1 10.7

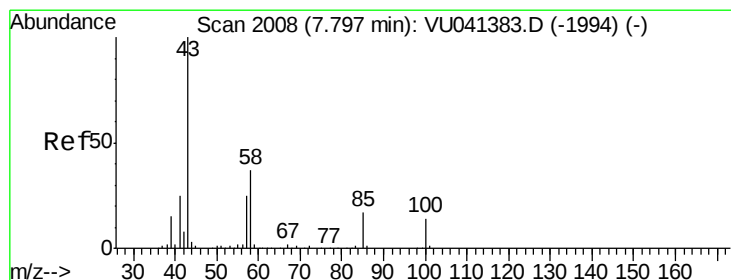
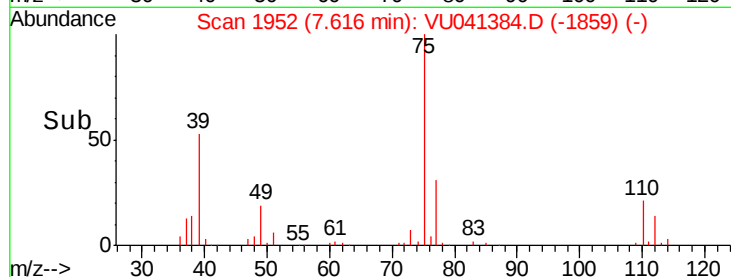
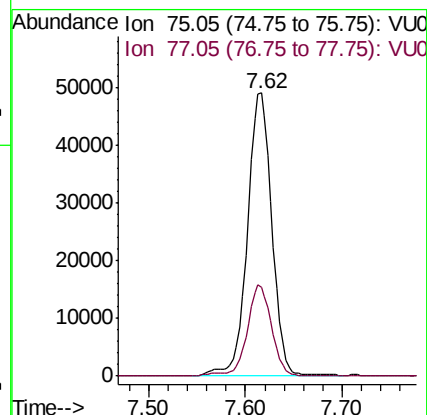
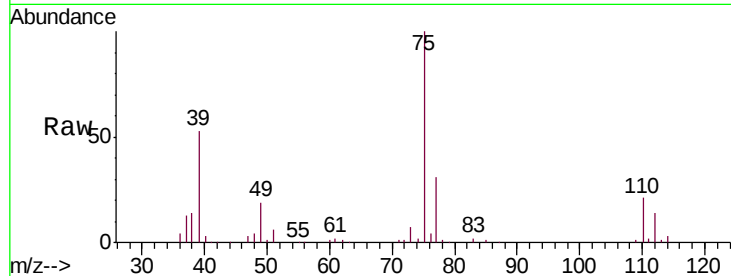




#39  
 cis-1,3-Dichloropropene  
 Concen: 10.166 ug/L  
 RT: 7.62 min Scan# 1952  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

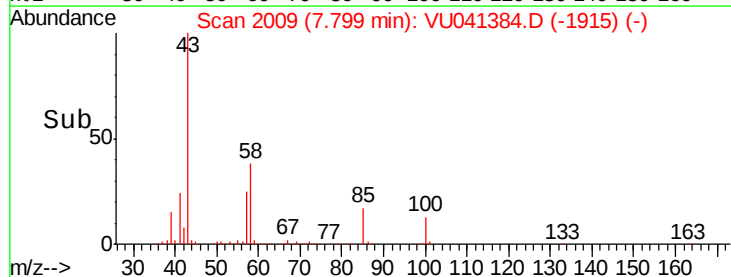
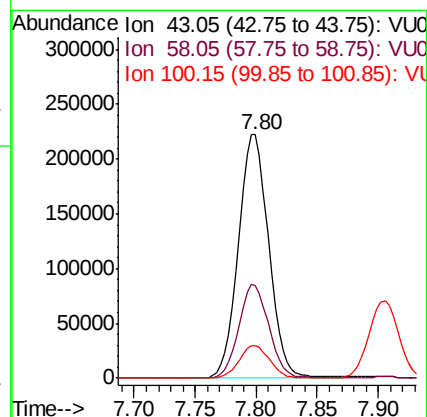
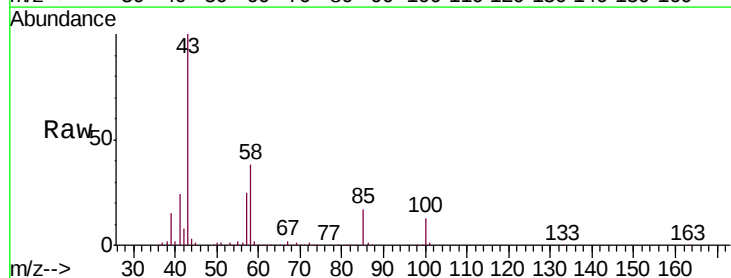
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD01001

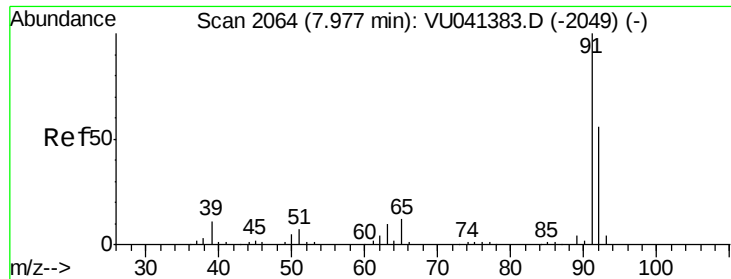
Tgt Ion: 75 Resp: 86326  
 Ion Ratio Lower Upper  
 75 100  
 77 31.4 22.1 41.1



#40  
 4-Methyl-2-pentanone  
 Concen: 80.870 ug/L  
 RT: 7.80 min Scan# 2009  
 Delta R.T. 0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 43 Resp: 384140  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 29.8 44.8  
 100 13.4 10.9 16.3





#42

Toluene

Concen: 10.838 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

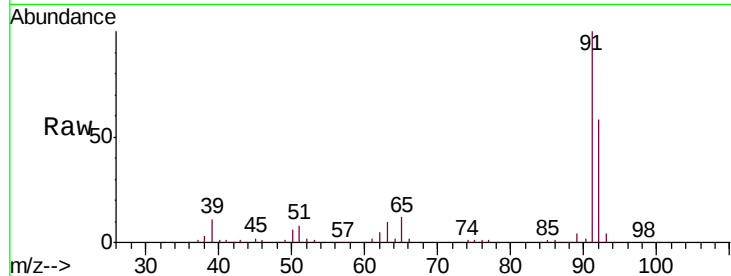
VSTD01001

Tgt Ion: 91 Resp: 243976

Ion Ratio Lower Upper

91 100

92 57.5 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU041383.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU041383.D (-2049) (-)

7.98

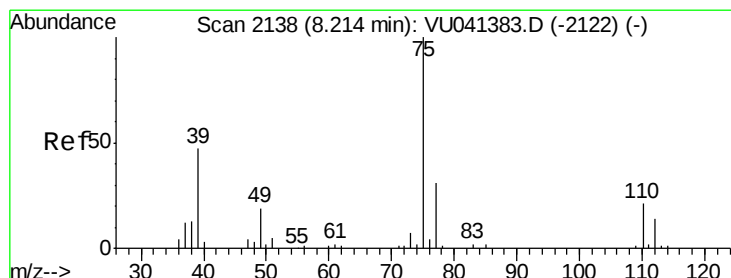
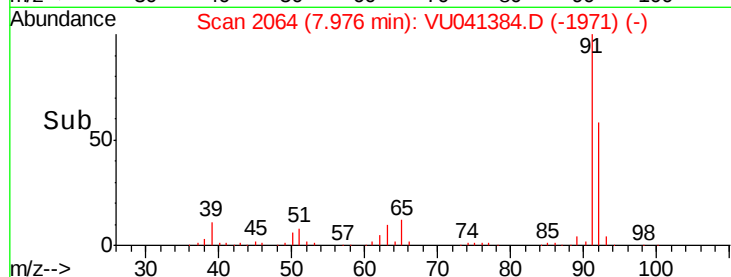
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 9.870 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU041384.D

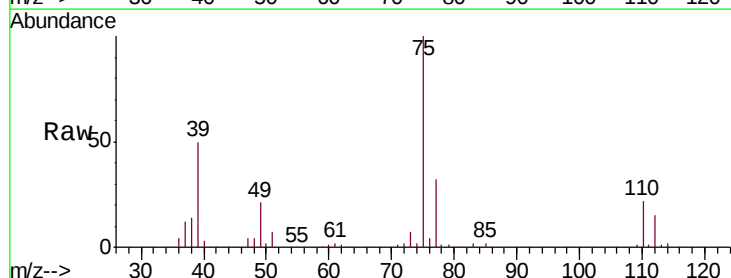
Acq: 23 Nov 2020 13:06

Tgt Ion: 75 Resp: 78687

Ion Ratio Lower Upper

75 100

77 32.1 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VU041383.D (-2122) (-)

Ion 77.05 (76.75 to 77.75): VU041383.D (-2122) (-)

8.22

50000

40000

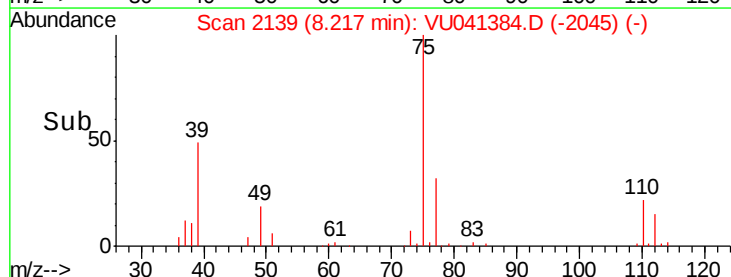
30000

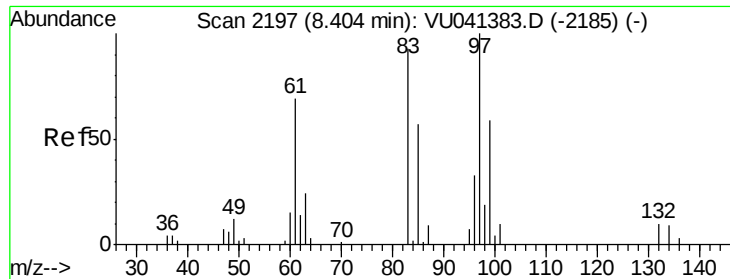
20000

10000

0

Time-->

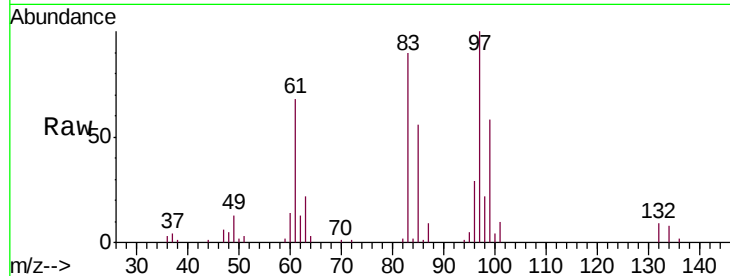




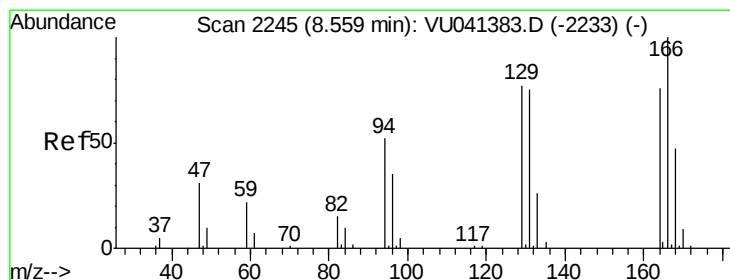
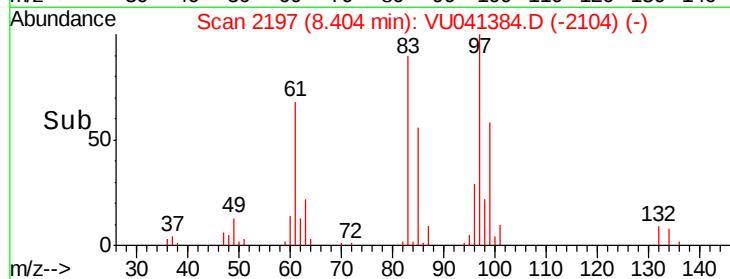
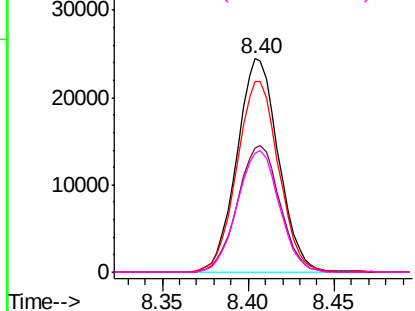
#45  
 1,1,2-Trichloroethane  
 Concen: 8.975 ug/L  
 RT: 8.40 min Scan# 2197  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

Tgt Ion: 97 Resp: 41103  
 Ion Ratio Lower Upper  
 97 100  
 99 58.3 41.5 77.1  
 83 89.5 65.5 121.6  
 85 56.0 40.1 74.5

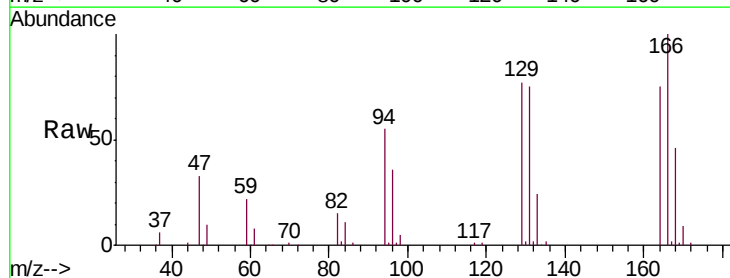


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

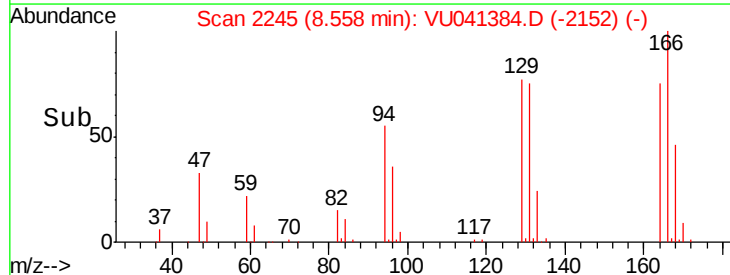
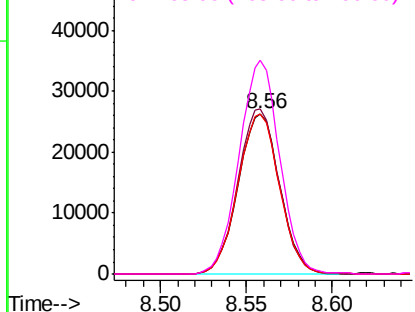


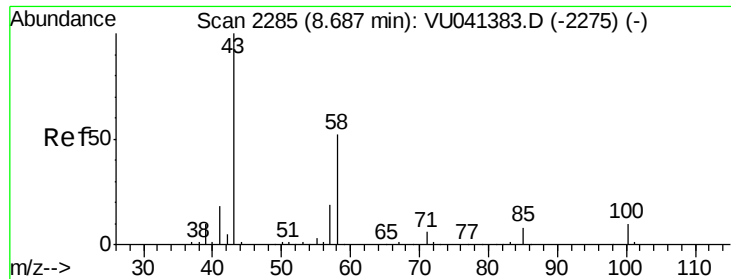
#47  
 Tetrachloroethene  
 Concen: 10.471 ug/L  
 RT: 8.56 min Scan# 2245  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 164 Resp: 44311  
 Ion Ratio Lower Upper  
 164 100  
 129 103.3 71.0 131.9  
 131 100.1 69.0 128.1  
 166 133.3 92.4 171.6



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

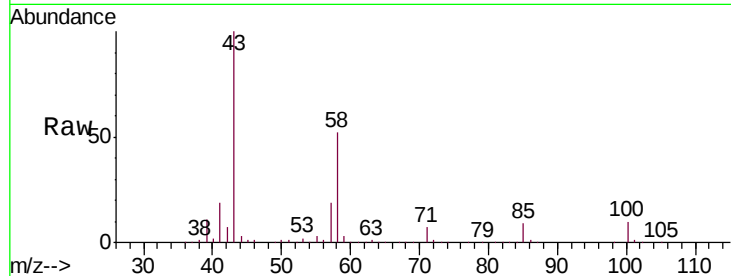




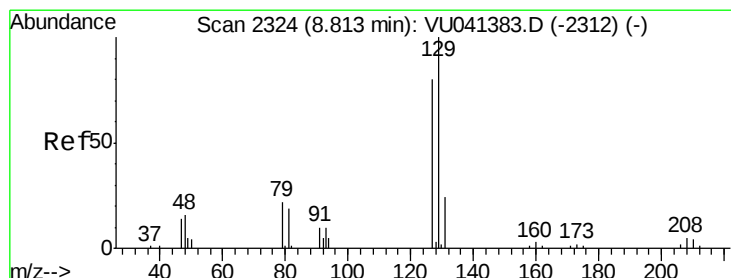
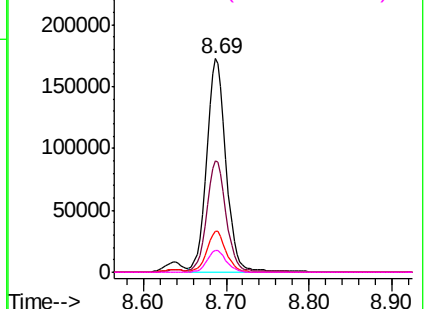
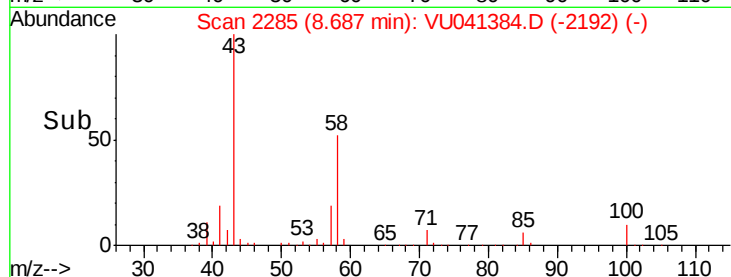
#48  
2-Hexanone  
Concen: 81.225 ug/L  
RT: 8.69 min Scan# 2285  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

Tgt Ion: 43 Resp: 285148  
Ion Ratio Lower Upper  
43 100  
58 51.4 42.0 63.0  
57 18.7 15.0 22.4  
100 10.0 8.4 12.6

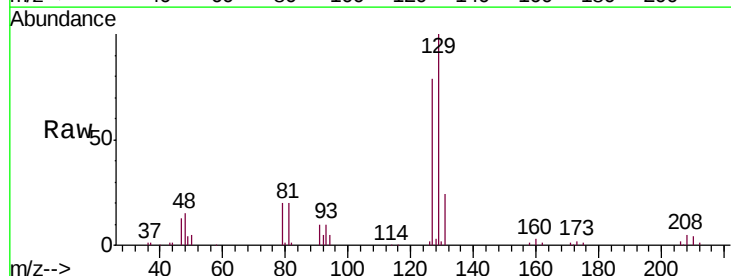


Abundance Ion 43.05 (42.75 to 43.75): VU041384.D (-2192) (-)  
Ion 58.05 (57.75 to 58.75): VU041384.D (-2192) (-)  
Ion 57.20 (56.90 to 57.90): VU041384.D (-2192) (-)  
Ion 100.15 (99.85 to 100.85): VU041384.D (-2192) (-)

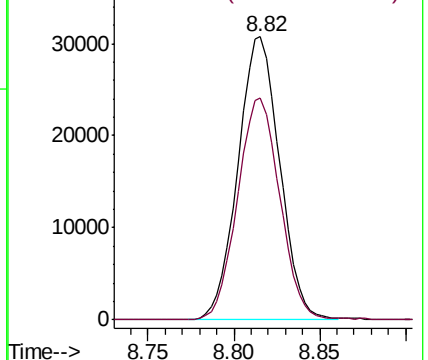
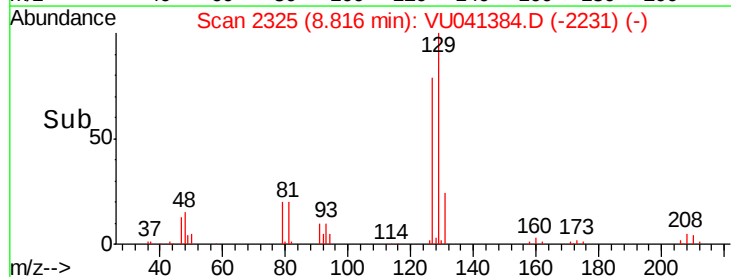


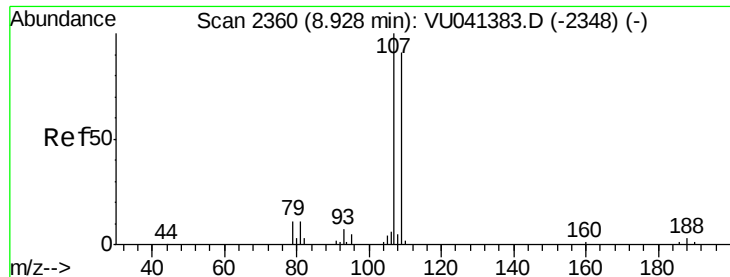
#49  
Dibromochloromethane  
Concen: 9.431 ug/L  
RT: 8.82 min Scan# 2325  
Delta R.T. 0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Tgt Ion: 129 Resp: 51838  
Ion Ratio Lower Upper  
129 100  
127 78.5 55.6 103.4



Abundance Ion 128.95 (128.65 to 129.65): VU041384.D (-2231) (-)  
Ion 126.90 (126.60 to 127.60): VU041384.D (-2231) (-)

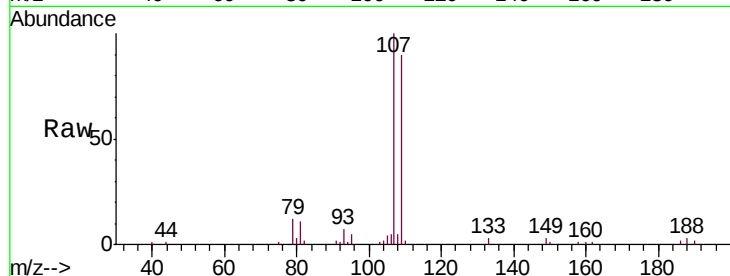




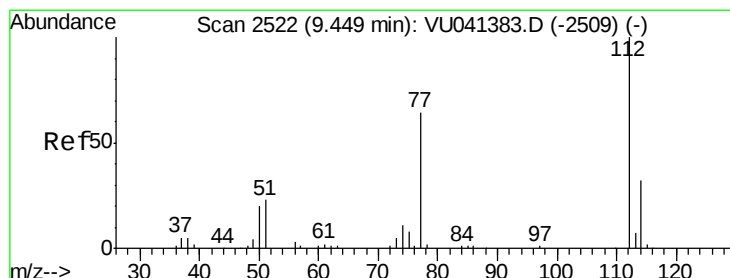
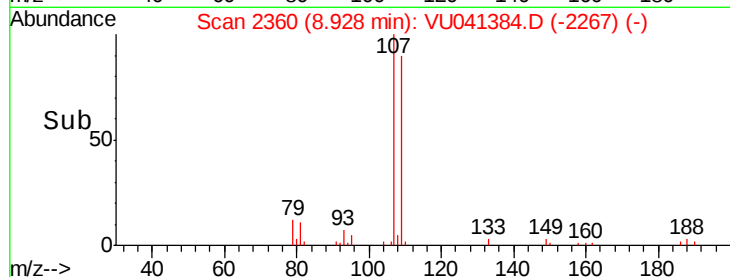
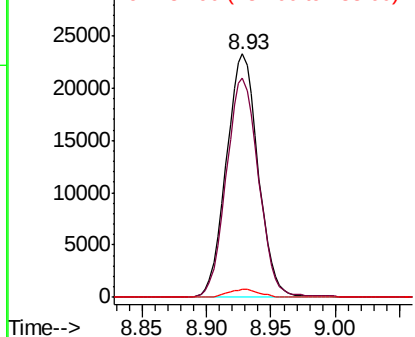
#50  
1,2-Dibromoethane  
Concen: 9.323 ug/L  
RT: 8.93 min Scan# 2360  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

Tgt Ion:107 Resp: 39855  
Ion Ratio Lower Upper  
107 100  
109 89.9 63.4 117.8  
188 3.1 2.2 3.4

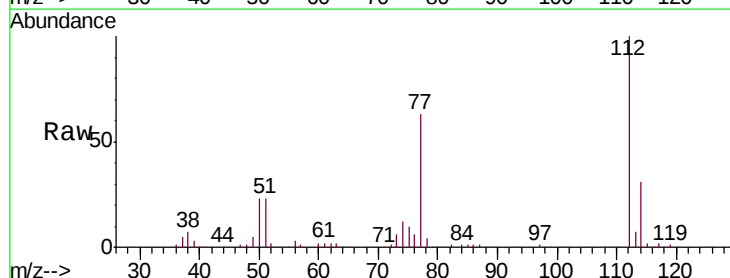


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

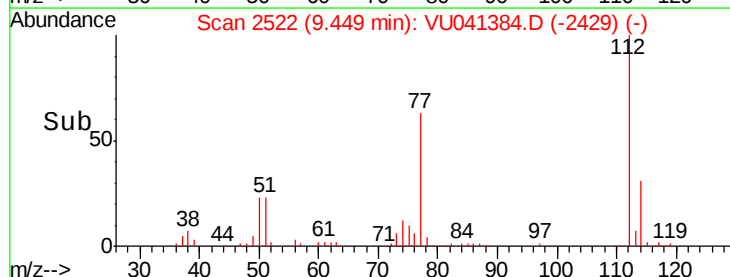
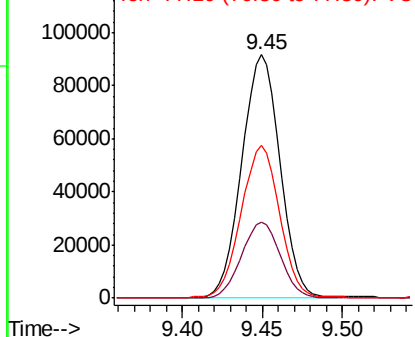


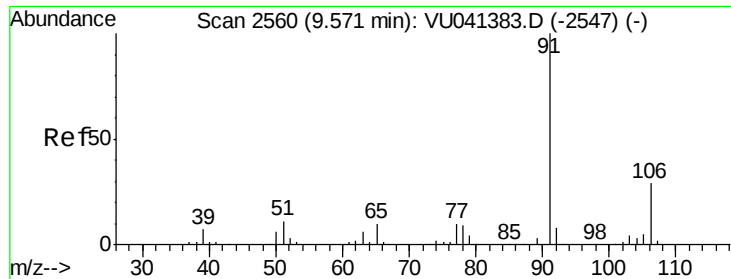
#51  
Chlorobenzene  
Concen: 10.084 ug/L  
RT: 9.45 min Scan# 2522  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Tgt Ion:112 Resp: 149943  
Ion Ratio Lower Upper  
112 100  
114 31.3 22.3 41.3  
77 62.7 52.2 78.4



Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 10.920 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

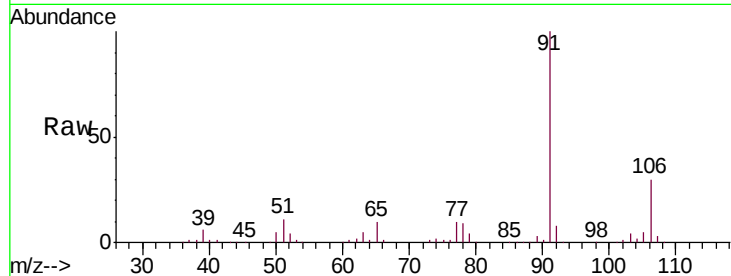
VSTD01001

Tgt Ion: 91 Resp: 264982

Ion Ratio Lower Upper

91 100

106 30.2 20.6 38.2



Abundance Ion 91.15 (90.85 to 91.85): VU041384.D (-2547) (-)

Ion 106.15 (105.85 to 106.85): VU041384.D (-2547) (-)

200000

150000

100000

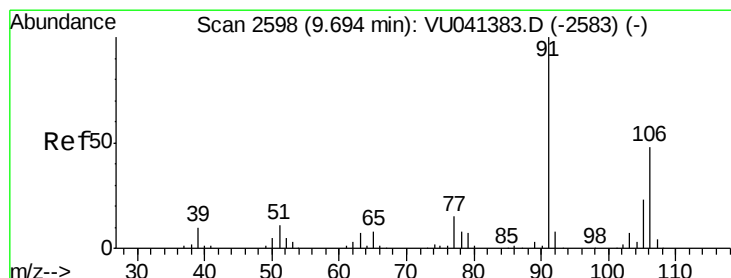
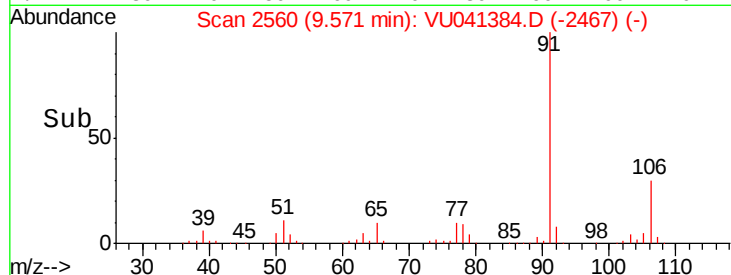
50000

0

9.57

9.55 9.57 9.59 9.61 9.63 9.65

Time-->



#53

m,p-Xylene

Concen: 11.471 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041384.D

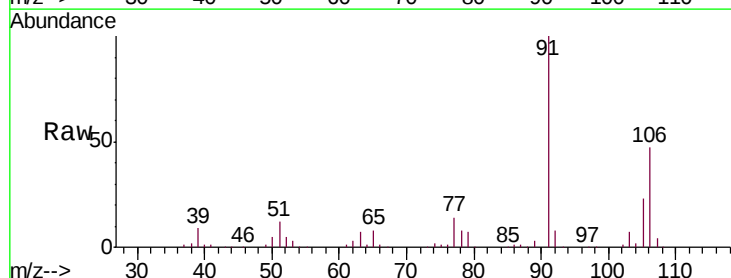
Acq: 23 Nov 2020 13:06

Tgt Ion: 106 Resp: 100728

Ion Ratio Lower Upper

106 100

91 214.8 145.0 269.4



Abundance Ion 106.15 (105.85 to 106.85): VU041384.D (-2598) (-)

Ion 91.15 (90.85 to 91.85): VU041384.D (-2598) (-)

200000

150000

100000

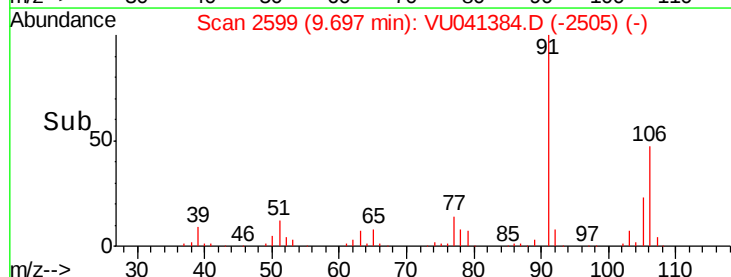
50000

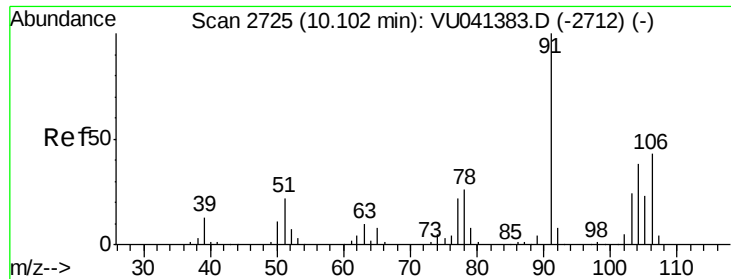
0

9.70

9.60 9.70 9.80

Time-->

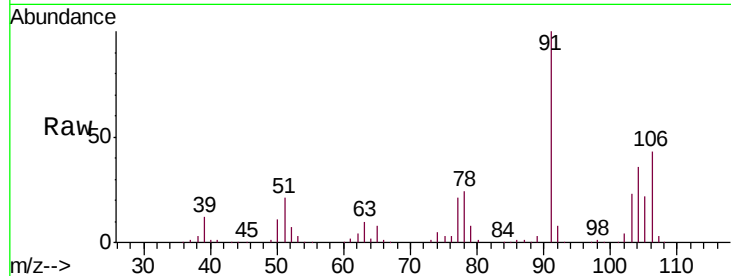




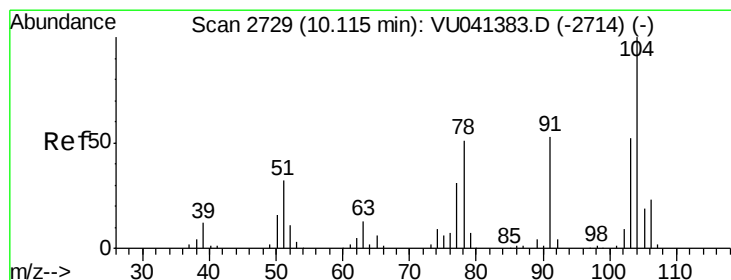
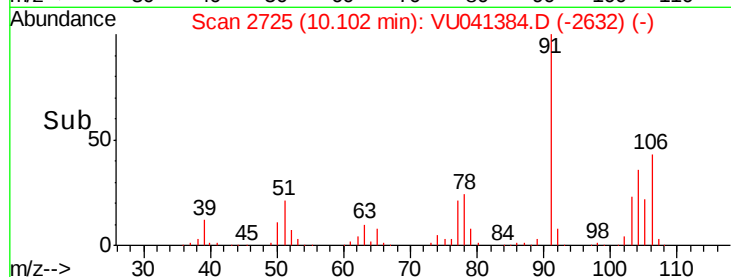
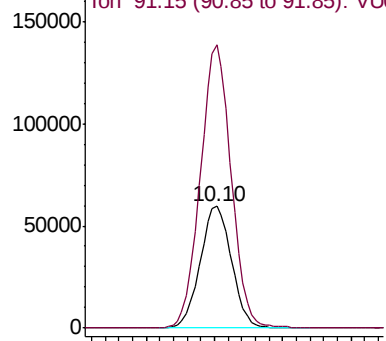
#54  
o-Xylene  
Concen: 11.340 ug/L  
RT: 10.10 min Scan# 2725  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01001

Tgt Ion:106 Resp: 95346  
Ion Ratio Lower Upper  
106 100  
91 232.0 162.0 300.8

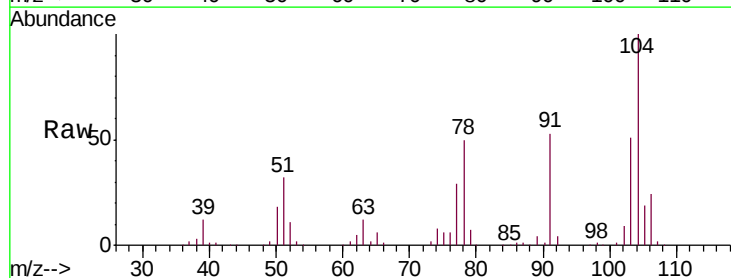


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

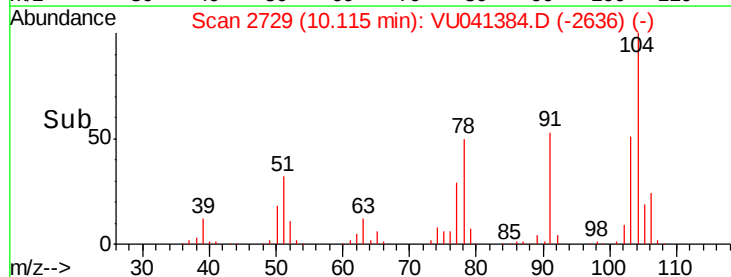
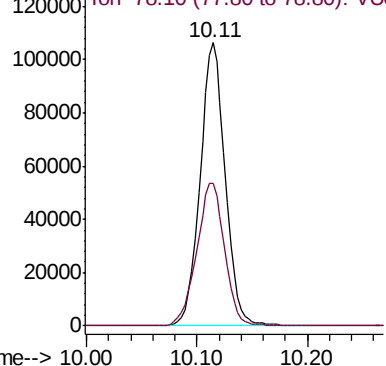


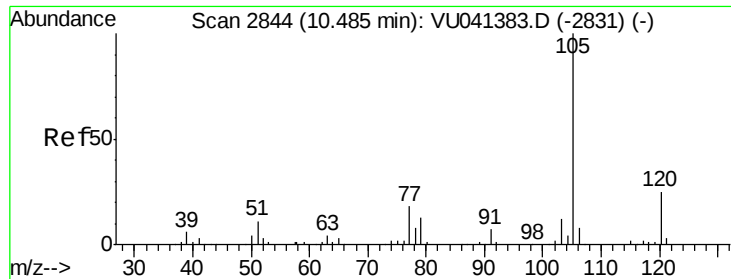
#55  
Styrene  
Concen: 11.329 ug/L  
RT: 10.11 min Scan# 2729  
Delta R.T. -0.00 min  
Lab File: VU041384.D  
Acq: 23 Nov 2020 13:06

Tgt Ion:104 Resp: 167231  
Ion Ratio Lower Upper  
104 100  
78 50.3 35.9 66.7



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





#56

Isopropylbenzene

Concen: 11.533 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01001

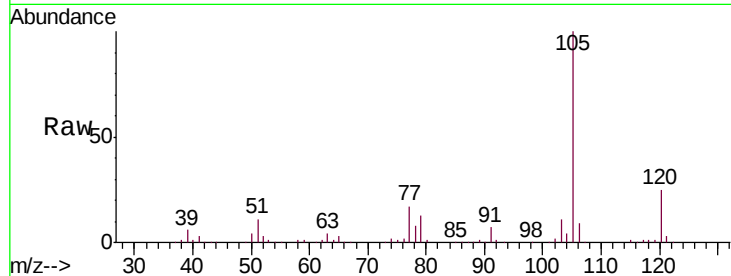
Tgt Ion: 105 Resp: 260786

Ion Ratio Lower Upper

105 100

120 25.2 20.1 30.1

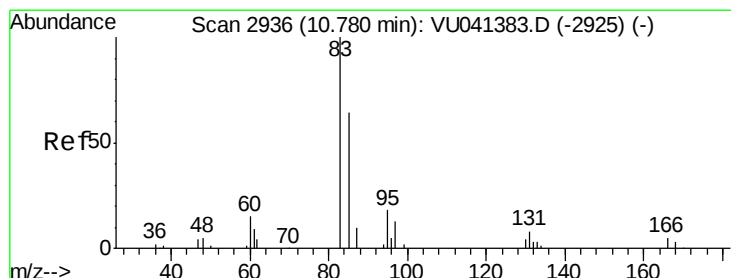
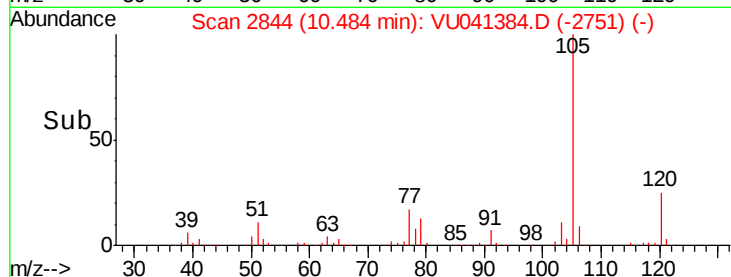
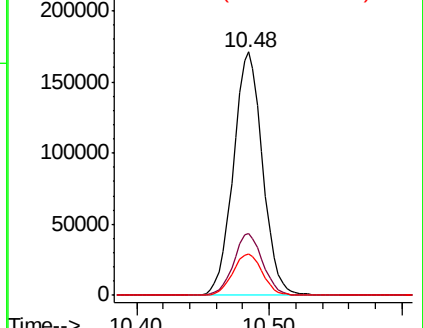
77 17.3 14.0 21.0



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: 8.404 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

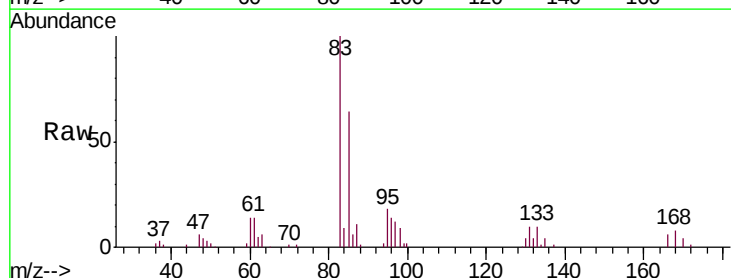
Tgt Ion: 83 Resp: 51236

Ion Ratio Lower Upper

83 100

85 64.2 45.1 83.9

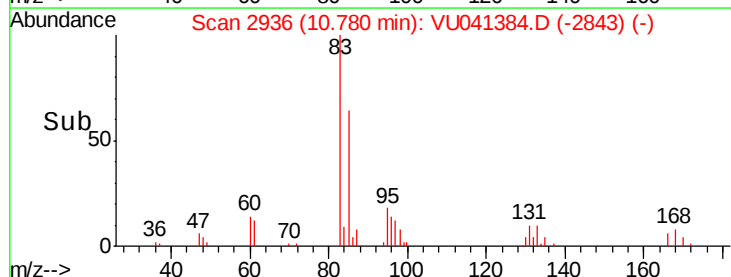
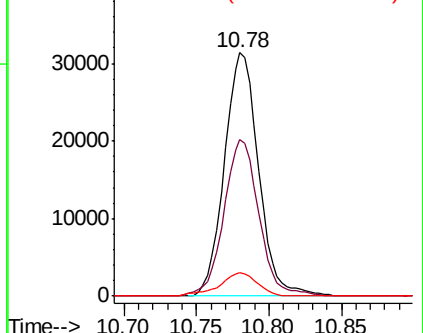
131 9.6 7.6 11.4

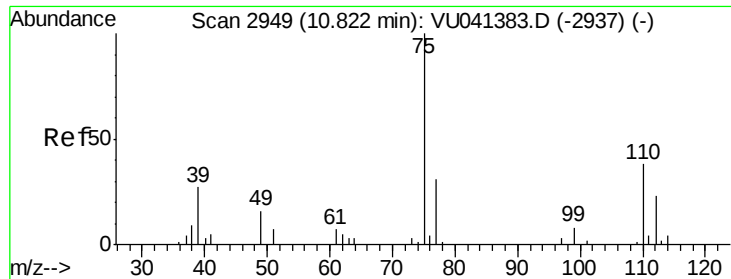


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 8.245 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

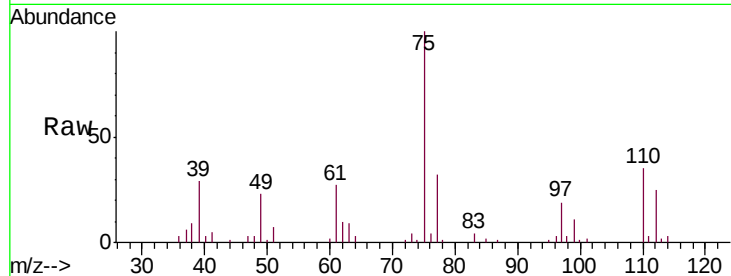
VSTD01001

Tgt Ion: 75 Resp: 38714

Ion Ratio Lower Upper

75 100

77 32.1 25.1 37.7



Abundance Ion 75.00 (74.70 to 75.70): VU041383.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU041383.D (-2937) (-)

10.82

25000

20000

15000

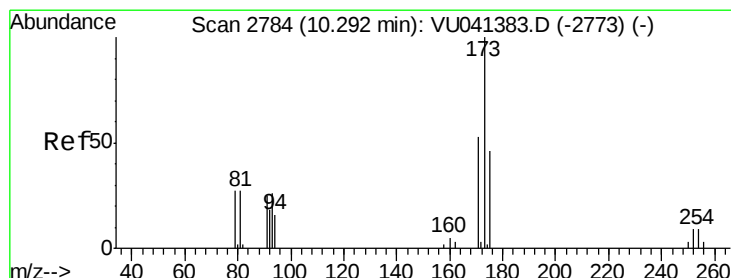
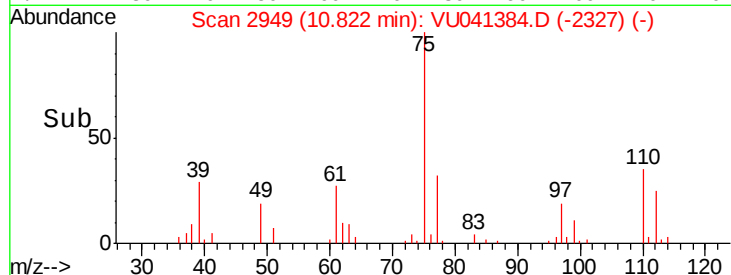
10000

5000

0

Time-->

10.75 10.80 10.85



#61

Bromoform

Concen: 8.084 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

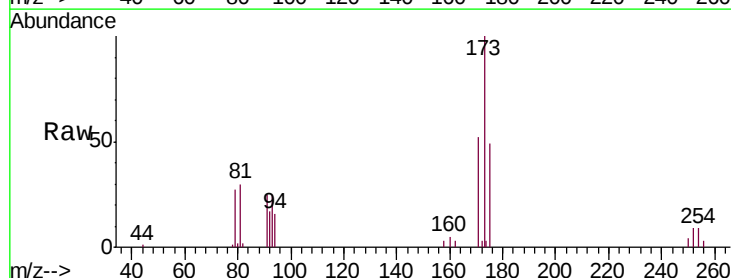
Tgt Ion: 173 Resp: 29211

Ion Ratio Lower Upper

173 100

175 48.6 37.9 56.9

254 9.0 7.1 10.7



Abundance Ion 172.90 (172.60 to 173.60): VU041383.D (-2773) (-)

Ion 174.90 (174.60 to 175.60): VU041383.D (-2773) (-)

Ion 253.75 (253.45 to 254.45): VU041383.D (-2773) (-)

10.29

20000

15000

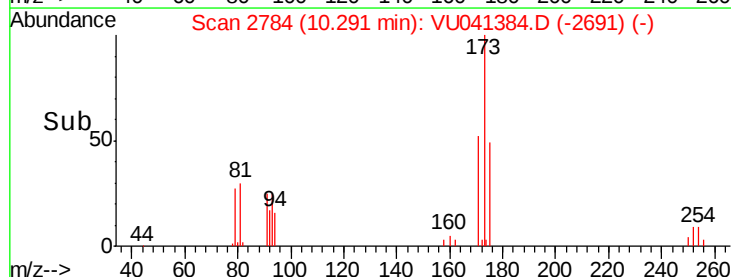
10000

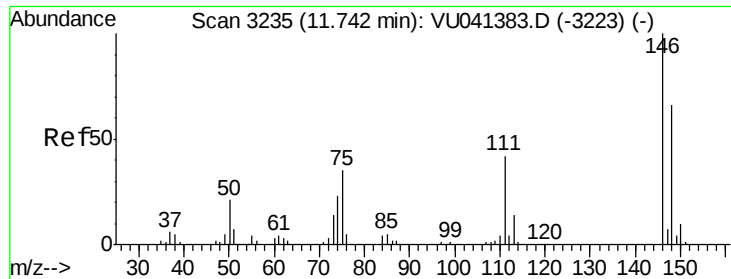
5000

0

Time-->

10.25 10.30 10.35

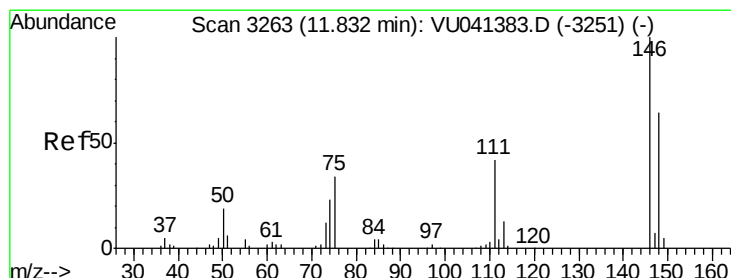
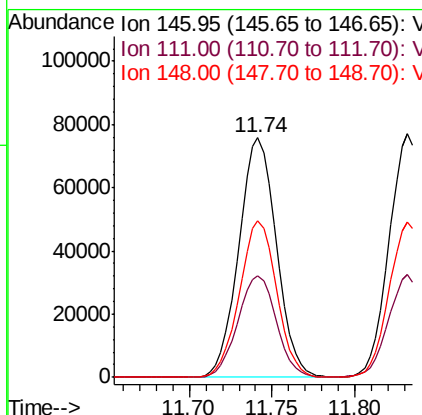
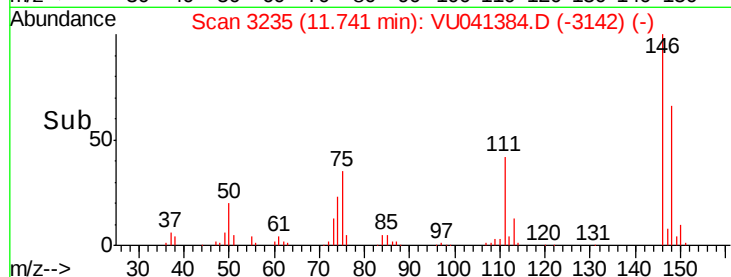
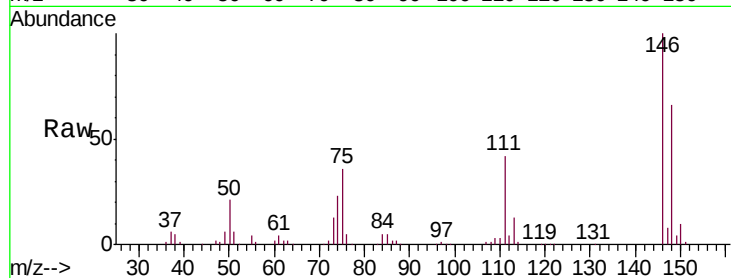




#62  
 1,3-Dichlorobenzene  
 Concen: 9.730 ug/L  
 RT: 11.74 min Scan# 3235  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

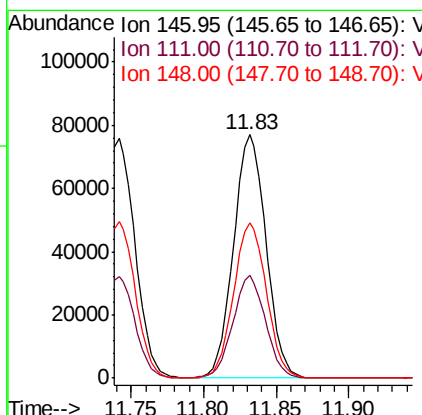
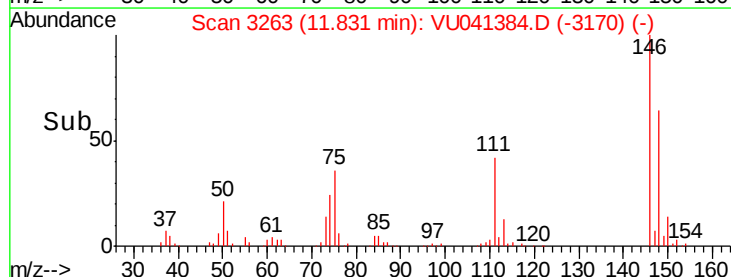
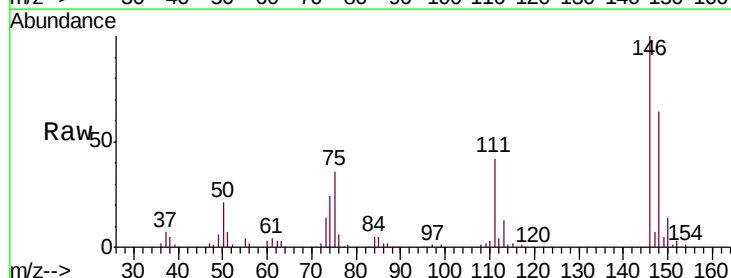
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

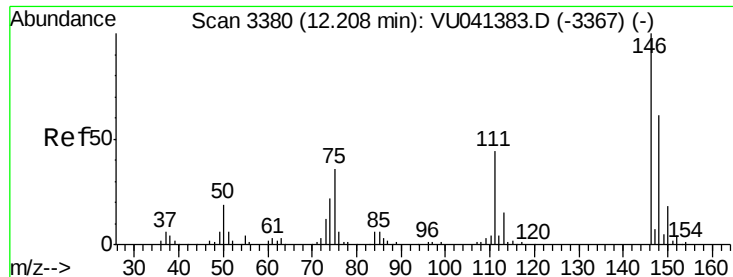
Tgt Ion:146 Resp: 119521  
 Ion Ratio Lower Upper  
 146 100  
 111 42.2 29.5 54.7  
 148 65.5 46.3 85.9



#63  
 1,4-Dichlorobenzene  
 Concen: 9.542 ug/L  
 RT: 11.83 min Scan# 3263  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion:146 Resp: 120031  
 Ion Ratio Lower Upper  
 146 100  
 111 42.0 30.0 55.6  
 148 63.7 44.4 82.5

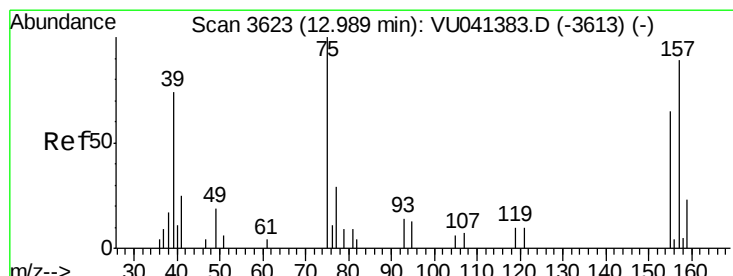
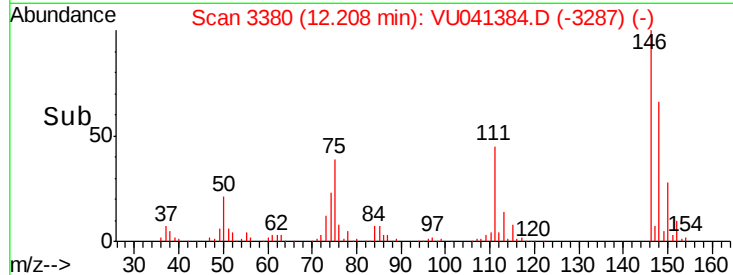
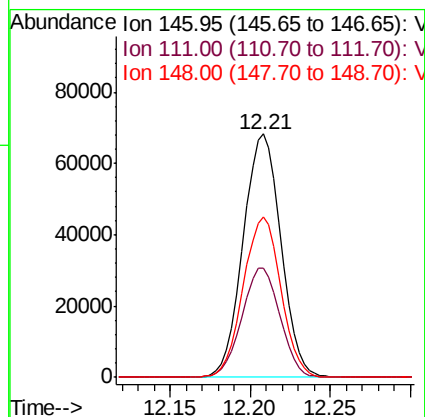
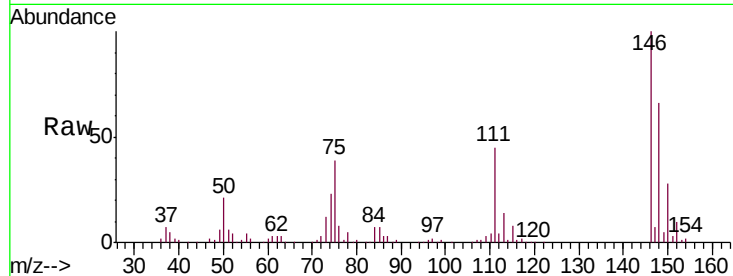




#65  
 1,2-Dichlorobenzene  
 Concen: 9.204 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

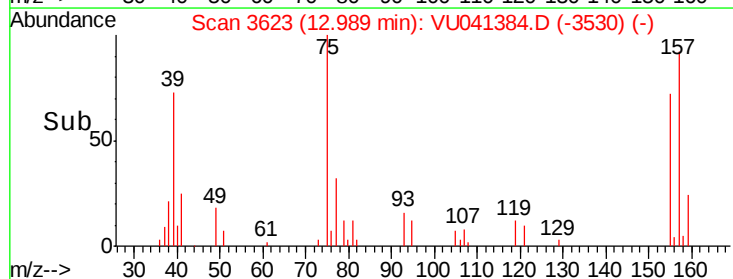
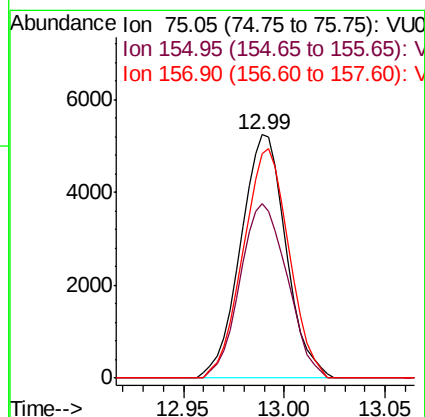
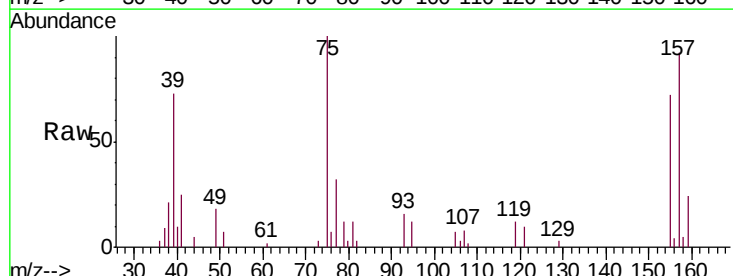
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

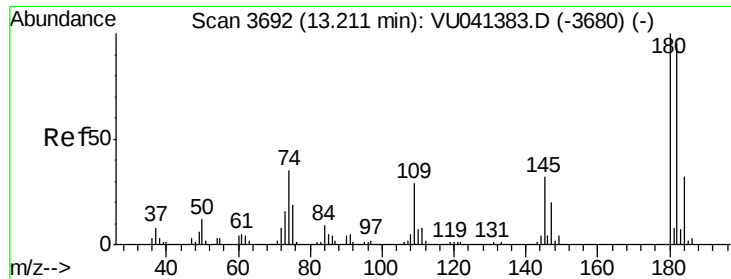
Tgt Ion: 146 Resp: 110243  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 35.3 52.9  
 148 65.9 48.6 73.0



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 7.593 ug/L  
 RT: 12.99 min Scan# 3623  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion: 75 Resp: 8285  
 Ion Ratio Lower Upper  
 75 100  
 155 71.8 51.9 77.9  
 157 92.0 71.5 107.3

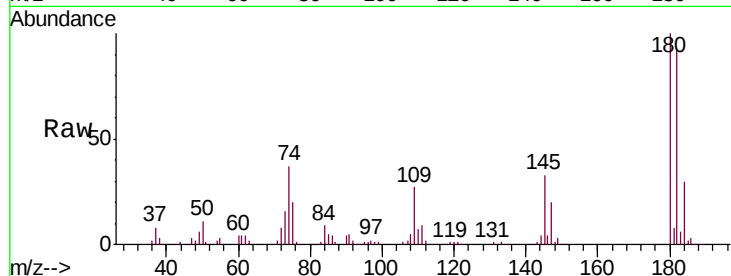




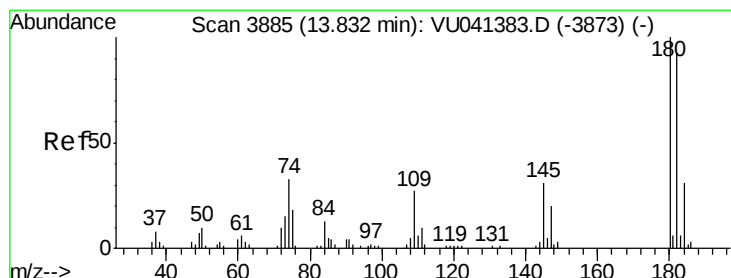
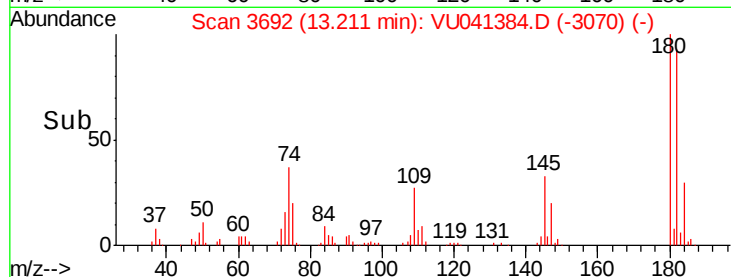
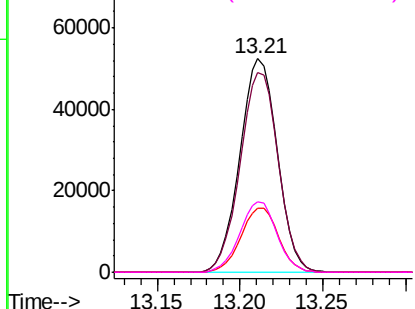
#67  
 1,3,5-Trichlorobenzene  
 Concen: 9.526 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01001

Tgt Ion:180 Resp: 82575  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 77.5 116.3  
 184 30.0 25.7 38.5  
 145 32.7 26.2 39.2

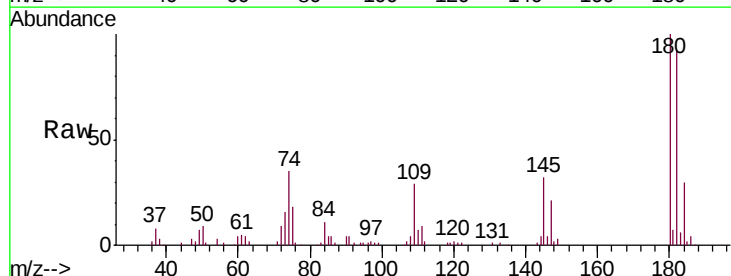


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

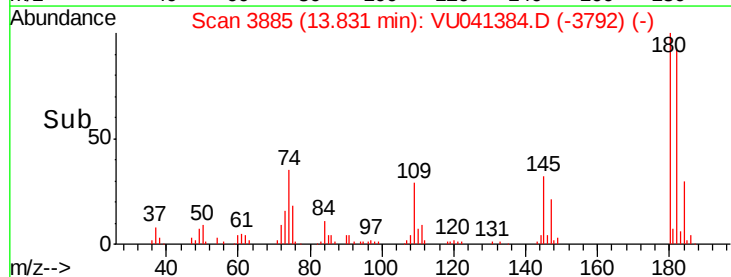
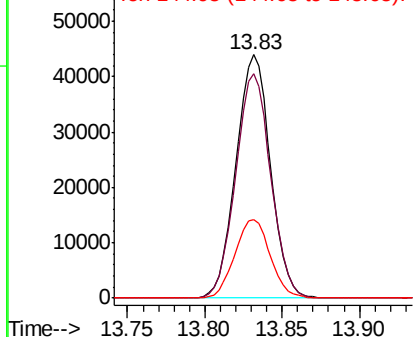


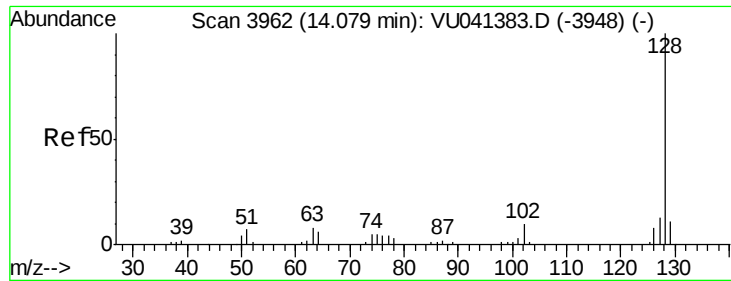
#68  
 1,2,4-trichlorobenzene  
 Concen: 9.583 ug/L  
 RT: 13.83 min Scan# 3885  
 Delta R.T. -0.00 min  
 Lab File: VU041384.D  
 Acq: 23 Nov 2020 13:06

Tgt Ion:180 Resp: 67988  
 Ion Ratio Lower Upper  
 180 100  
 182 93.7 76.0 114.0  
 145 33.0 25.7 38.5



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 9.330 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01001

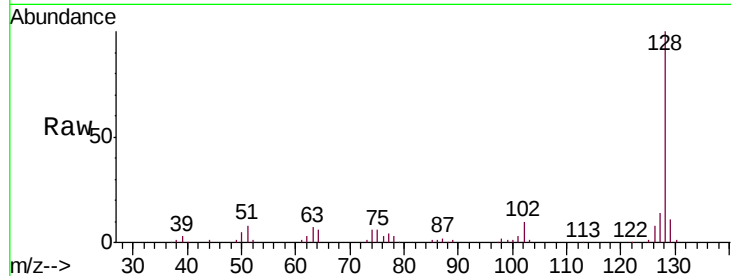
Tgt Ion:128 Resp: 106744

Ion Ratio Lower Upper

128 100

129 10.6 8.3 12.5

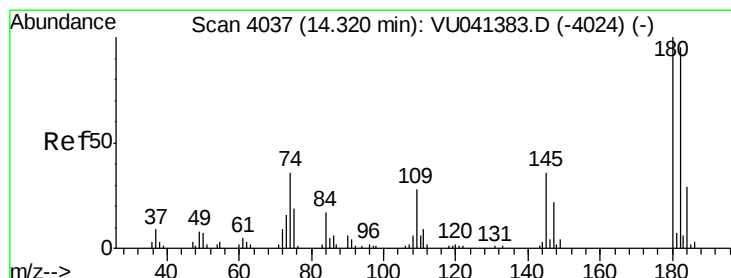
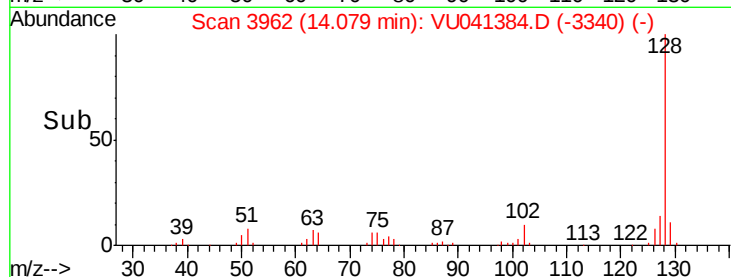
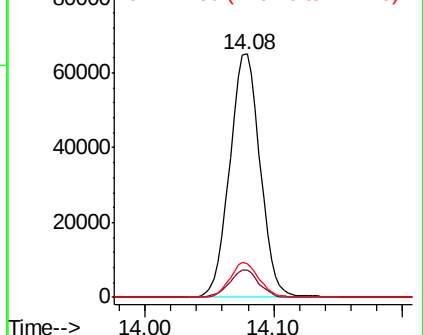
127 13.7 10.7 16.1



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: 9.146 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU041384.D

Acq: 23 Nov 2020 13:06

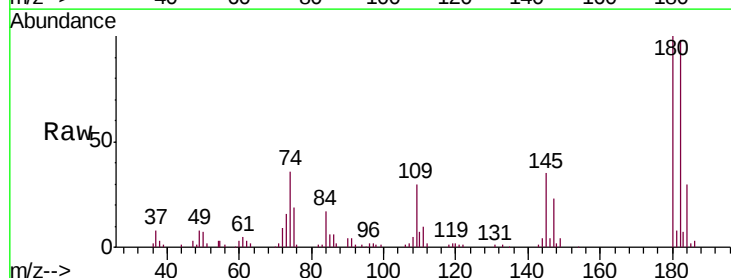
Tgt Ion:180 Resp: 60619

Ion Ratio Lower Upper

180 100

182 95.2 75.9 113.9

145 35.3 27.7 41.5



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

