

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061919\  
 Data File : VU032885.D  
 Acq On : 20 Jun 2019 02:31  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Quant Time: Jun 20 07:30:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 20 07:24:34 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 96223    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 96185    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 52465    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 23060    | 3.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 73.80%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 21420    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 57289    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 90.20%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 95658    | 54.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.58% |
| 24) Chloroform-d               | 4.64   | 84    | 57924    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 32483    | 5.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.00% |
| 32) Benzene-d6                 | 5.33   | 84    | 103014   | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 86.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 34281    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.00%  |
| 41) Toluene-d8                 | 7.56   | 98    | 97179    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 13727    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 71869    | 45.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.08%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 31600    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 42258    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 89.60%  |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 44432  | 5.382  | ug/L 99  |
| 3) Chloromethane               | 1.32 | 50  | 38014  | 4.439  | ug/L 100 |
| 5) Vinyl chloride              | 1.40 | 62  | 41832  | 4.970  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 19324  | 3.764  | ug/L 96  |
| 8) Chloroethane                | 1.69 | 64  | 25495  | 4.741  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 61933  | 5.142  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 31402  | 4.903  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 29081  | 4.757  | ug/L 99  |
| 13) Acetone                    | 2.32 | 43  | 70465  | 51.999 | ug/L 94  |
| 14) Carbon disulfide           | 2.47 | 76  | 91542  | 4.676  | ug/L 99  |
| 15) Methyl Acetate             | 2.61 | 43  | 17297  | 4.652  | ug/L 97  |
| 16) Methylene chloride         | 2.69 | 84  | 33254  | 4.905  | ug/L 93  |
| 17) Methyl tert-butyl Ether    | 3.00 | 73  | 86320  | 4.828  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.97 | 96  | 31420  | 4.763  | ug/L 92  |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 64567  | 5.469  | ug/L 97  |
| 21) 2-Butanone                 | 4.27 | 43  | 106958 | 54.268 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 37207  | 4.984  | ug/L 90  |

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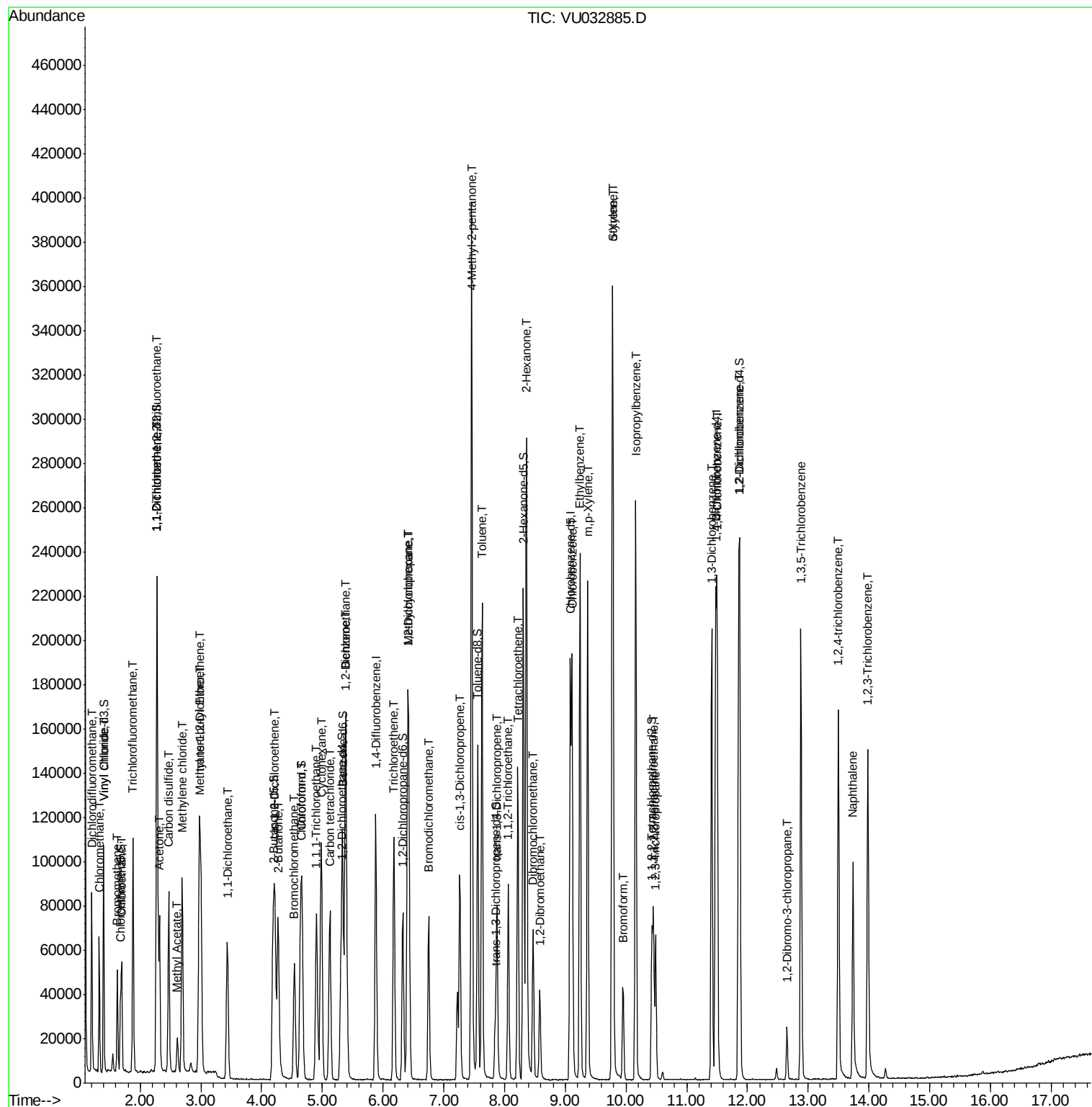
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 16901    | 5.260  | ug/L  | 92       |
| 25) Chloroform                 | 4.67  | 83   | 65671    | 5.445  | ug/L  | 95       |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 44768    | 5.647  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.90  | 97   | 56103    | 4.787  | ug/L  | 96       |
| 30) Cyclohexane                | 4.98  | 56   | 53797    | 4.343  | ug/L  | 96       |
| 31) Carbon tetrachloride       | 5.12  | 117  | 52872    | 4.961  | ug/L  | 99       |
| 33) Benzene                    | 5.38  | 78   | 134866   | 4.756  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 36598    | 4.487  | ug/L  | 100      |
| 35) Methylcyclohexane          | 6.40  | 83   | 55059    | 4.197  | ug/L  | 96       |
| 37) 1,2-Dichloropropane        | 6.42  | 63   | 37171    | 5.066  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.75  | 83   | 47043    | 4.988  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.26  | 75   | 51293    | 4.553  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 264997   | 50.751 | ug/L  | 95       |
| 42) Toluene                    | 7.63  | 91   | 150691   | 4.768  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 42373    | 4.711  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 26107    | 4.890  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.22  | 164  | 29481    | 4.593  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.36  | 43   | 189521   | 50.791 | ug/L  | 97       |
| 49) Dibromochloromethane       | 8.47  | 129  | 32681    | 4.786  | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 25174    | 4.732  | ug/L  | 95       |
| 51) Chlorobenzene              | 9.11  | 112  | 95387    | 4.814  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.24  | 91   | 161093   | 4.625  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 61251    | 4.638  | ug/L  | 99       |
| 54) o-Xylene                   | 9.77  | 106  | 59550    | 4.519  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 103257   | 4.762  | ug/L  | 97       |
| 56) Isopropylbenzene           | 10.16 | 105  | 160472   | 4.616  | ug/L  | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 34424    | 5.042  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 24788    | 5.145  | ug/L  | 96       |
| 61) Bromoform                  | 9.95  | 173  | 18465    | 4.380  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 78941    | 4.609  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 80677    | 4.634  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 78902    | 4.768  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 6266     | 5.393  | ug/L  | 89       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 65164    | 4.747  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 53345    | 4.820  | ug/L  | 95       |
| 69) Naphthalene                | 13.74 | 128  | 89398    | 4.608  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 51342    | 4.658  | ug/L  | 98       |

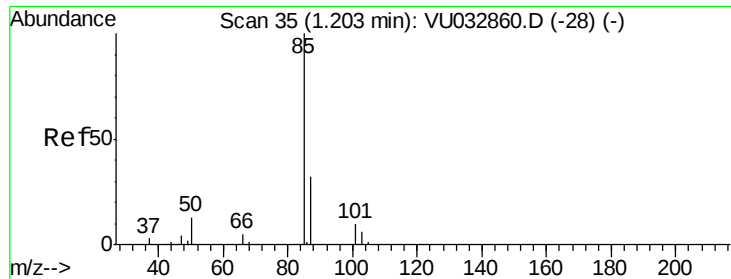
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.382 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

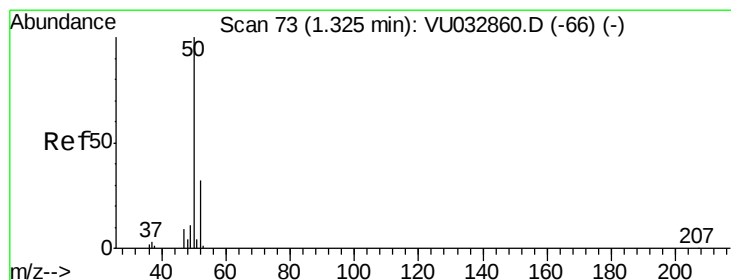
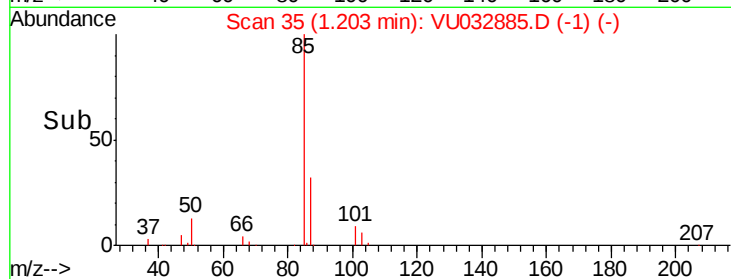
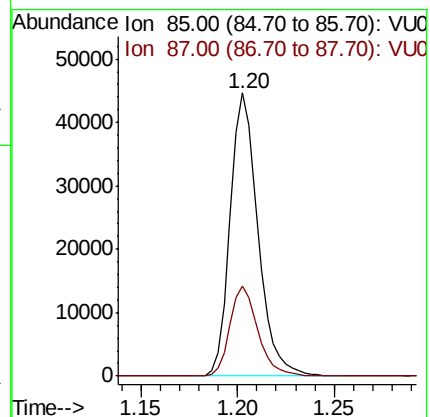
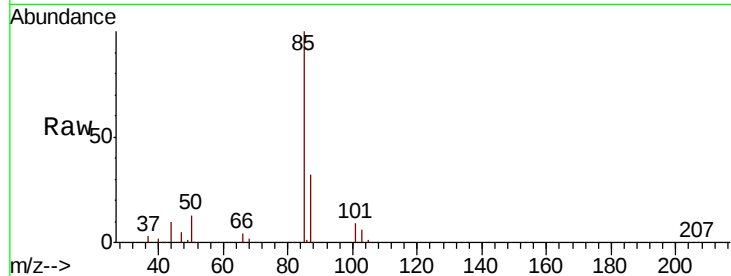
VSTD00530

Tgt Ion: 85 Resp: 44432

Ion Ratio Lower Upper

85 100

87 31.9 25.8 38.8



#3

Chloromethane

Concen: 4.439 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032885.D

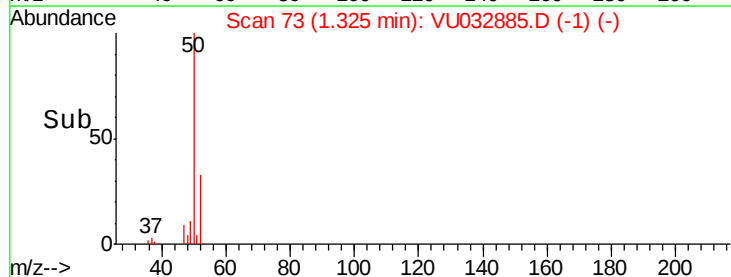
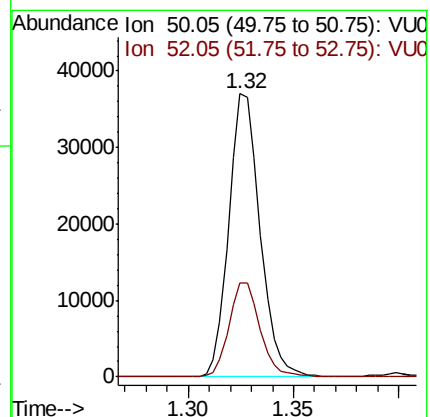
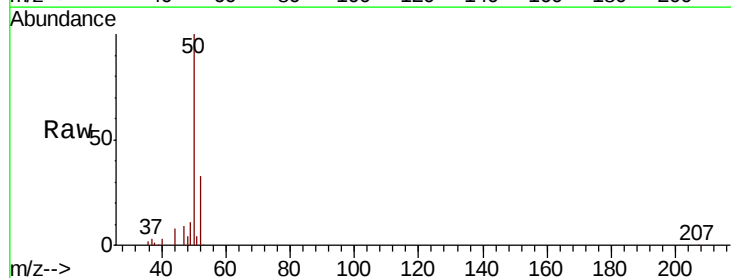
Acq: 20 Jun 2019 02:31

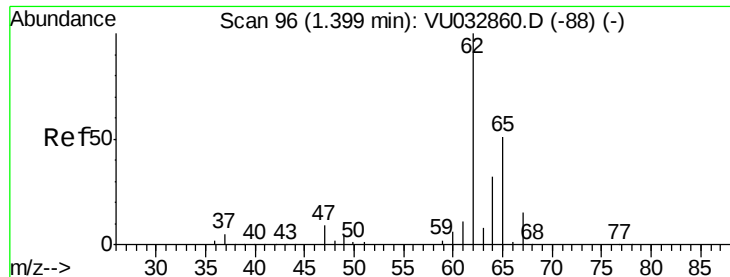
Tgt Ion: 50 Resp: 38014

Ion Ratio Lower Upper

50 100

52 33.2 23.2 43.2





#5

Vinyl chloride

Concen: 4.970 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

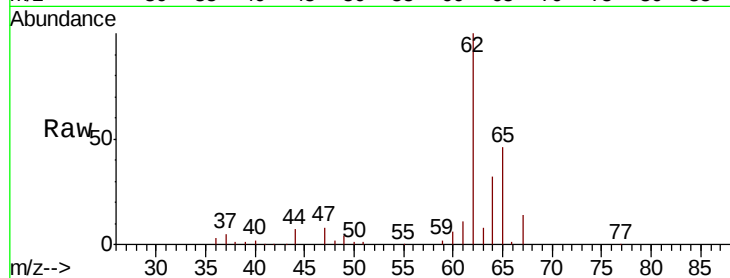
VSTD00530

Tgt Ion: 62 Resp: 41832

Ion Ratio Lower Upper

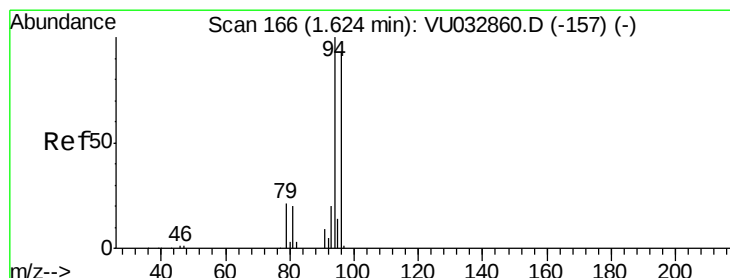
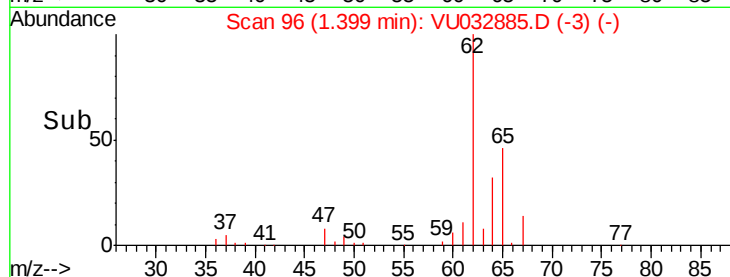
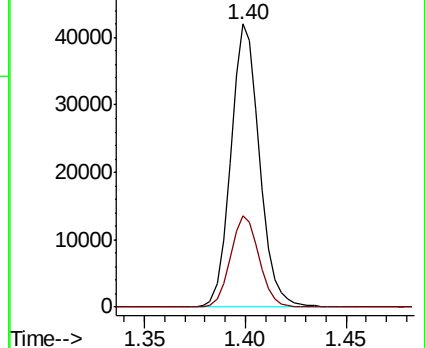
62 100

64 32.2 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU032860.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU032860.D (-88) (-)



#6

Bromomethane

Concen: 3.764 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU032885.D

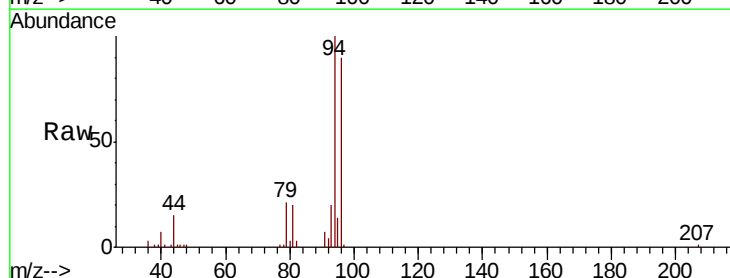
Acq: 20 Jun 2019 02:31

Tgt Ion: 94 Resp: 19324

Ion Ratio Lower Upper

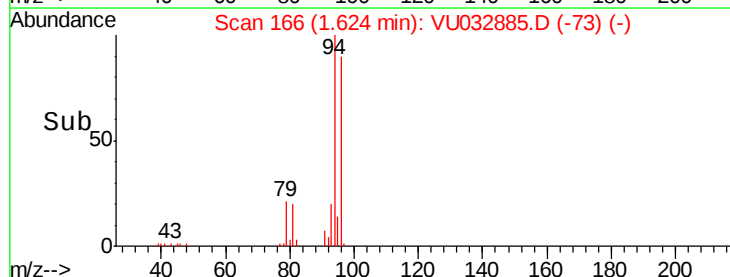
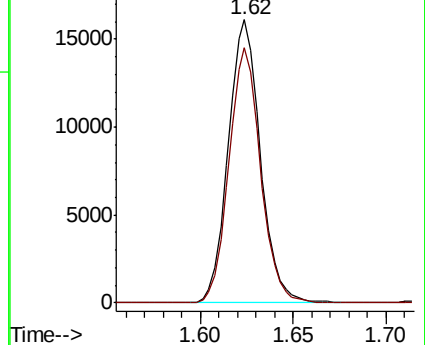
94 100

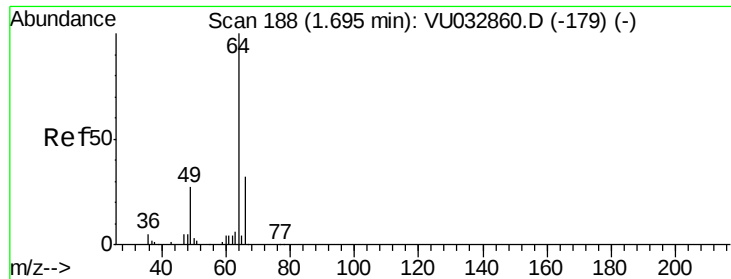
96 90.1 65.5 121.6



Abundance Ion 94.00 (93.70 to 94.70): VU032860.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU032860.D (-157) (-)





#8

Chloroethane

Concen: 4.741 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

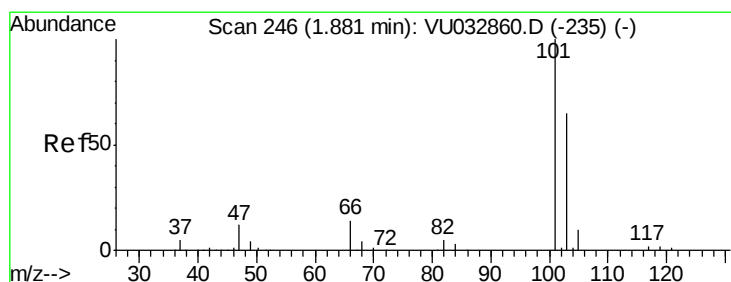
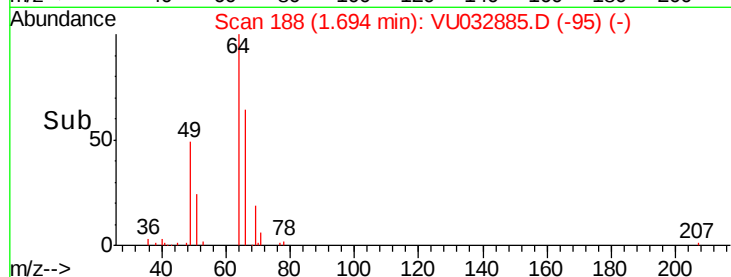
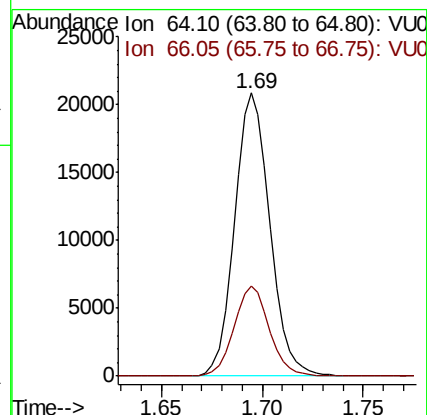
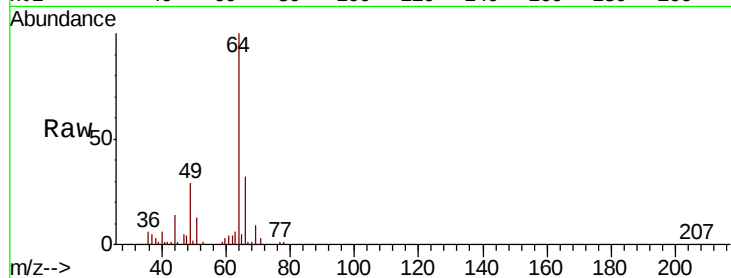
VSTD00530

Tgt Ion: 64 Resp: 25495

Ion Ratio Lower Upper

64 100

66 31.9 22.8 42.4



#9

Trichlorofluoromethane

Concen: 5.142 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032885.D

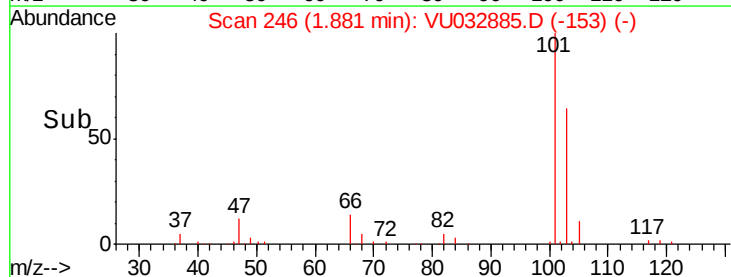
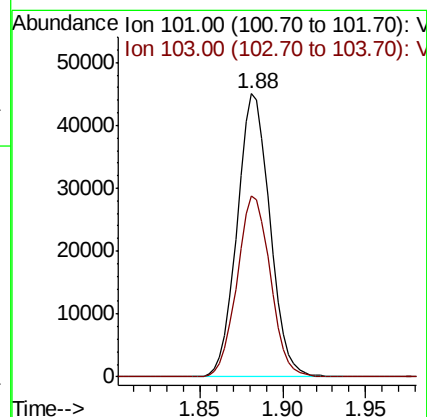
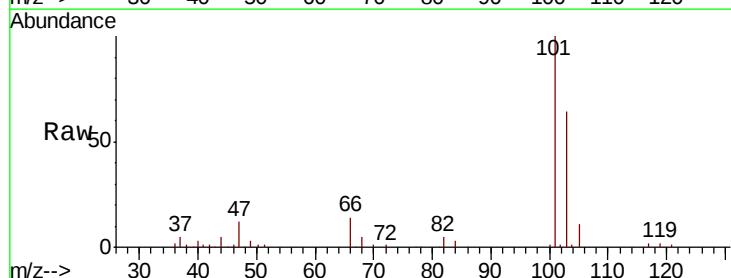
Acq: 20 Jun 2019 02:31

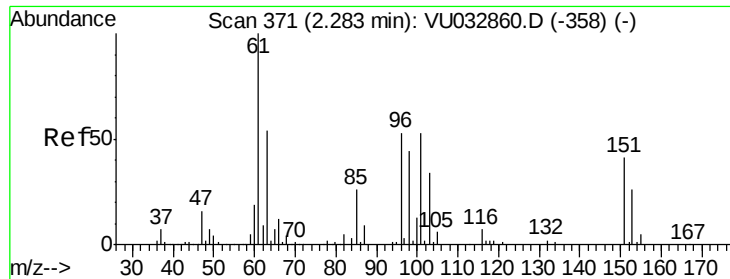
Tgt Ion: 101 Resp: 61933

Ion Ratio Lower Upper

101 100

103 64.8 52.2 78.2





#10

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

Concen: 4.903 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

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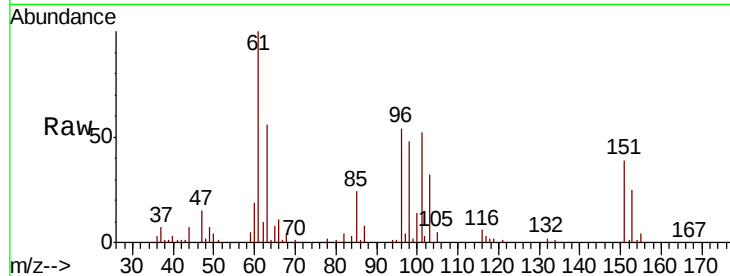
Tgt Ion: 101 Resp: 31402

Ion Ratio Lower Upper

101 100

85 47.2 38.9 58.3

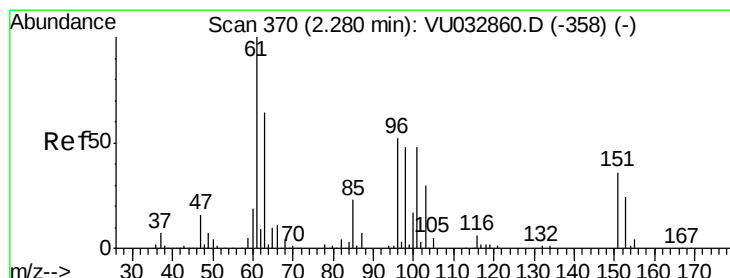
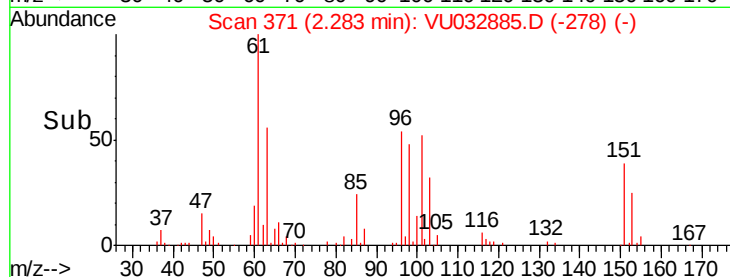
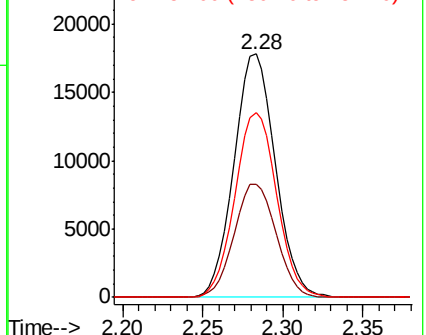
151 76.5 61.0 91.4



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: 4.757 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

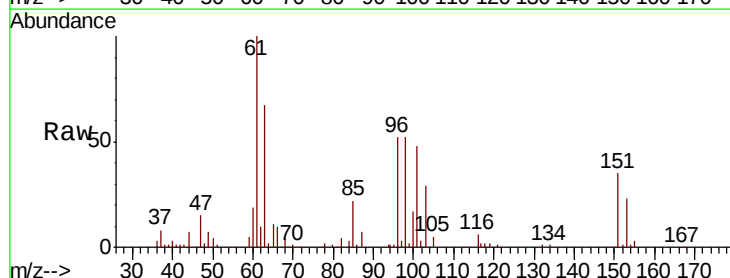
Tgt Ion: 96 Resp: 29081

Ion Ratio Lower Upper

96 100

61 190.9 131.8 244.8

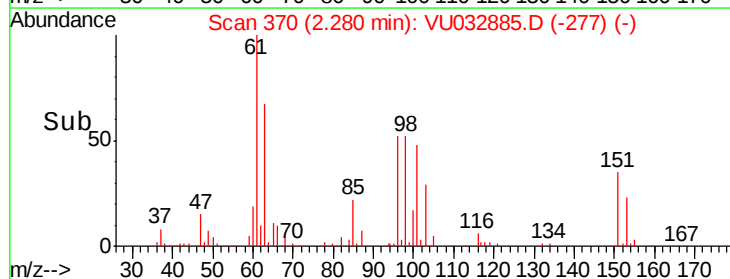
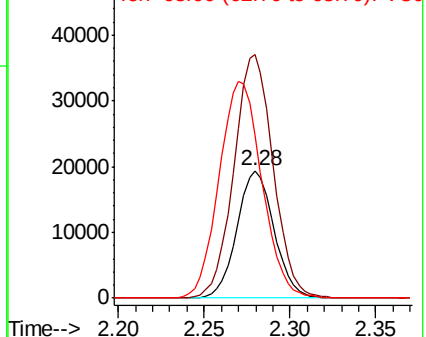
63 127.8 90.1 167.3

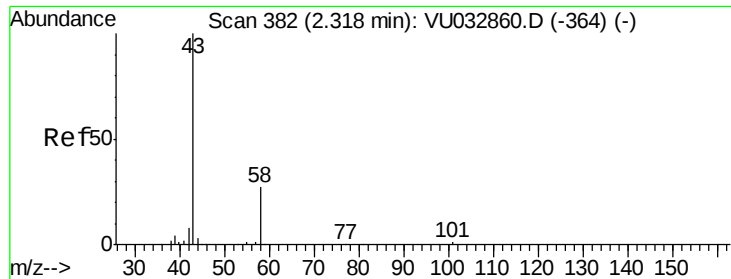


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.999 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

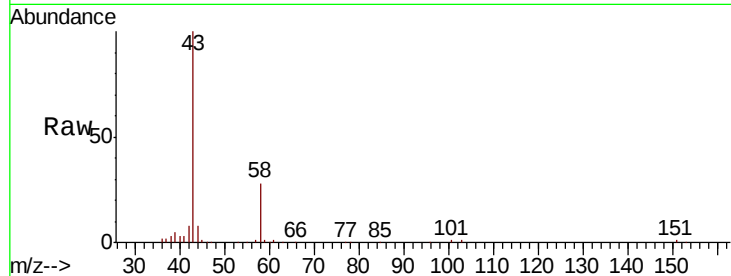
VSTD00530

Tgt Ion: 43 Resp: 70465

Ion Ratio Lower Upper

43 100

58 27.4 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VU032885.D (-289) (-)

Ion 58.05 (57.75 to 58.75): VU032885.D (-289) (-)

2.32

50000

40000

30000

20000

10000

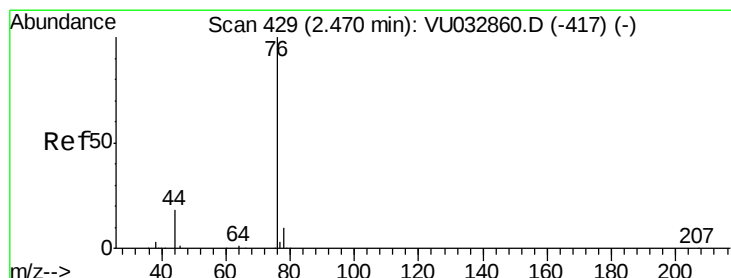
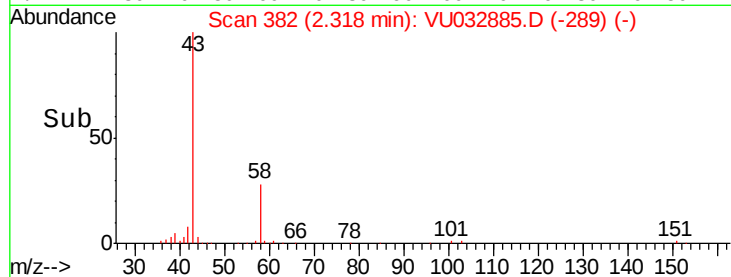
0

Time-->

2.20

2.30

2.40



#14

Carbon disulfide

Concen: 4.676 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032885.D

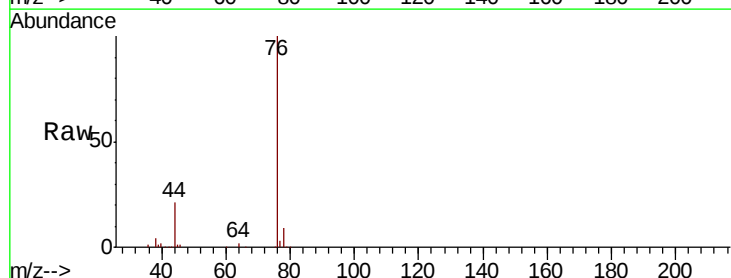
Acq: 20 Jun 2019 02:31

Tgt Ion: 76 Resp: 91542

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU032885.D (-336) (-)

Ion 78.00 (77.70 to 78.70): VU032885.D (-336) (-)

2.47

60000

40000

20000

0

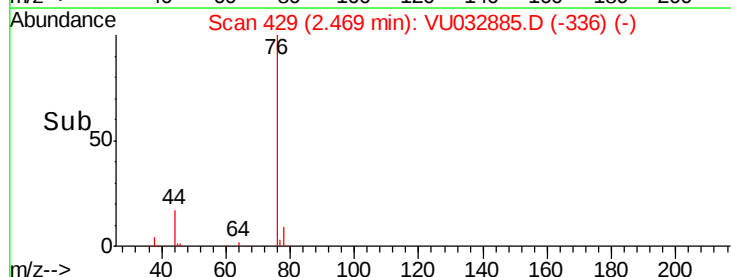
Time-->

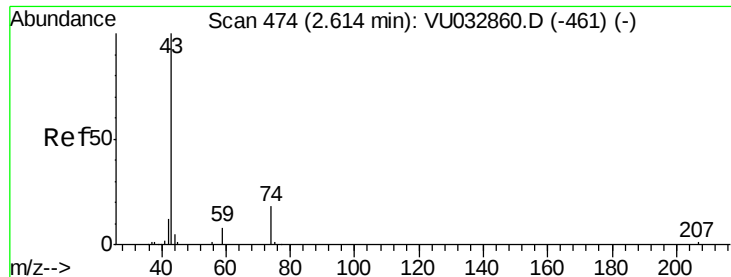
2.40

2.45

2.50

2.55





#15

Methyl Acetate

Concen: 4.652 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

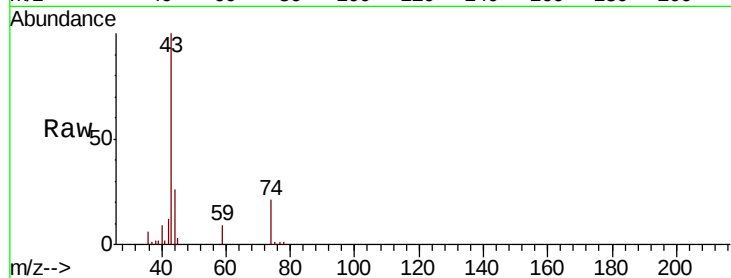
VSTD00530

Tgt Ion: 43 Resp: 17297

Ion Ratio Lower Upper

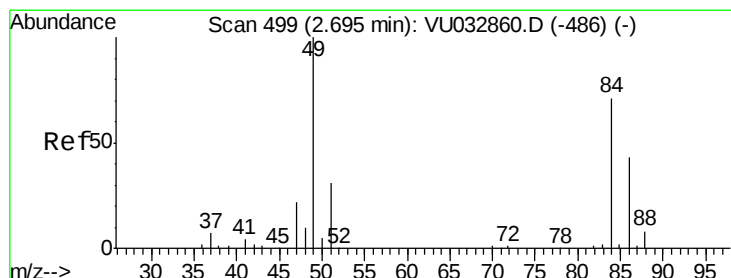
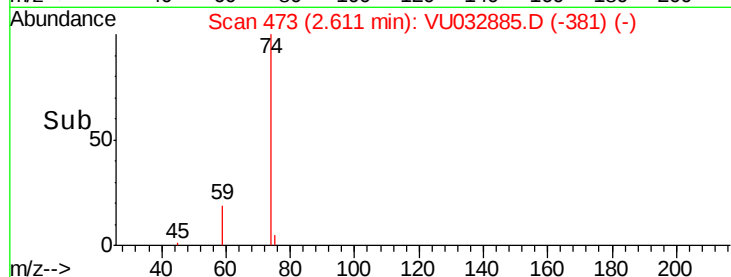
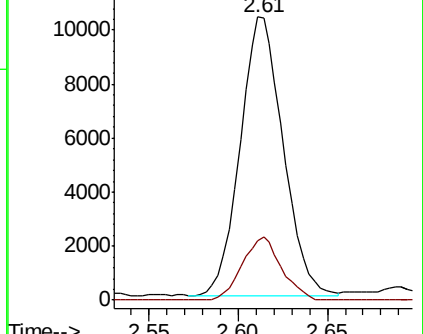
43 100

74 20.7 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU032885.D (-381) (-)

Ion 74.05 (73.75 to 74.75): VU032885.D (-381) (-)



#16

Methylene chloride

Concen: 4.905 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

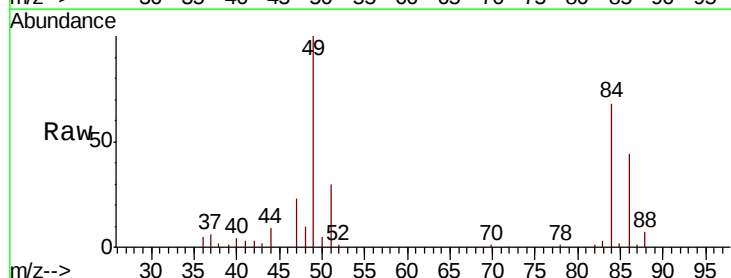
Tgt Ion: 84 Resp: 33254

Ion Ratio Lower Upper

84 100

86 63.9 47.2 87.6

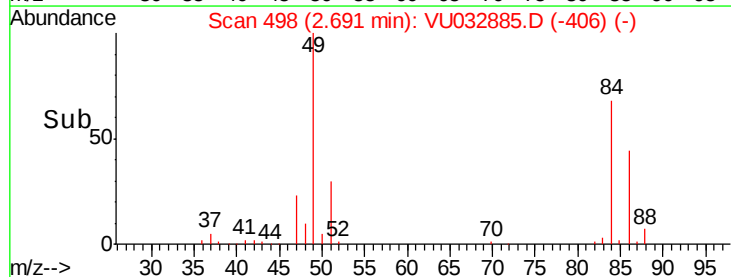
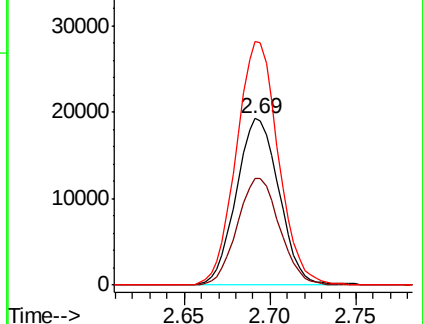
49 146.2 95.9 178.1

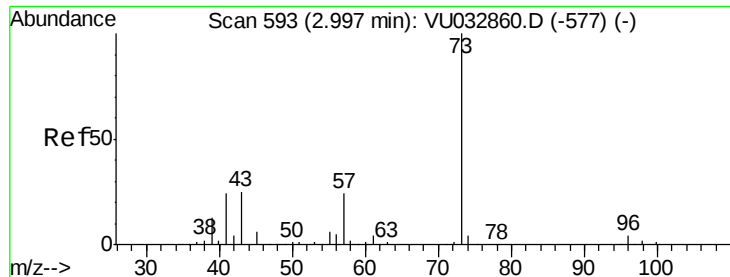


Abundance Ion 84.05 (83.75 to 84.75): VU032885.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032885.D (-406) (-)

Ion 49.10 (48.80 to 49.80): VU032885.D (-406) (-)

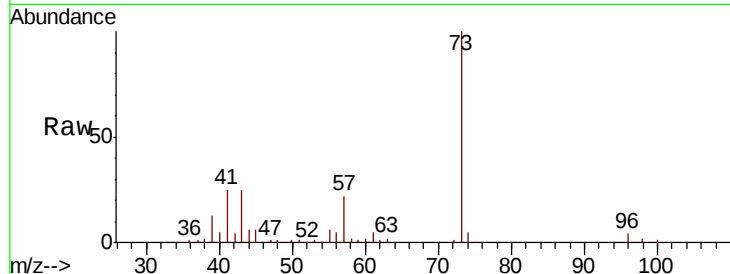




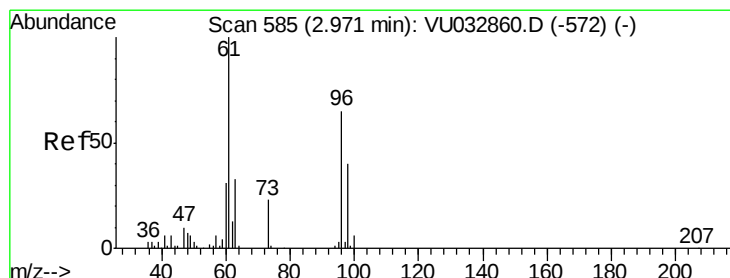
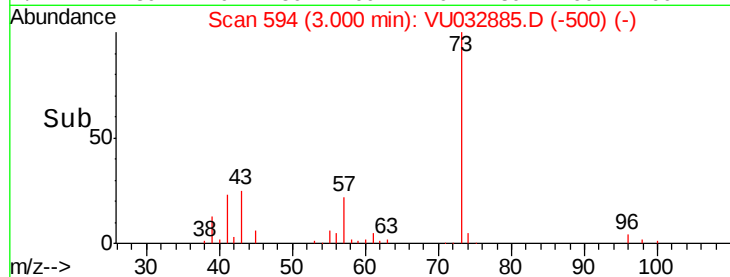
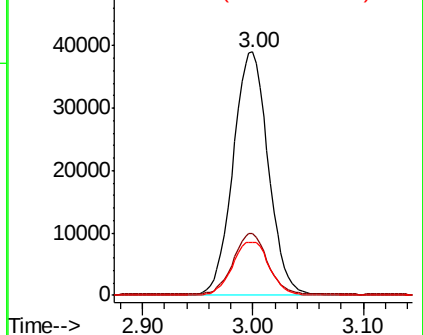
#17  
Methyl tert-butyl Ether  
Concen: 4.828 ug/L  
RT: 3.00 min Scan# 594  
Delta R.T. 0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00530

Tgt Ion: 73 Resp: 86320  
Ion Ratio Lower Upper  
73 100  
43 24.2 18.6 27.8  
57 22.8 18.3 27.5

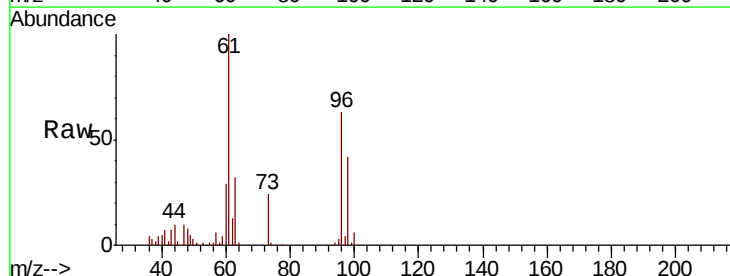


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

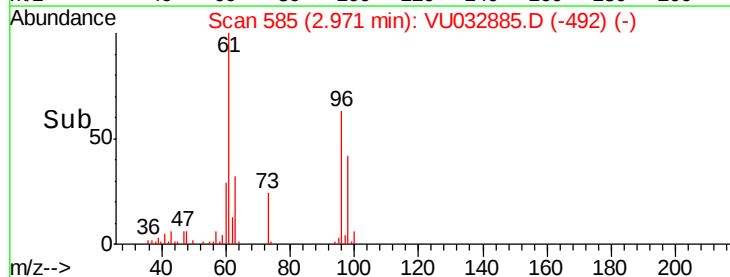
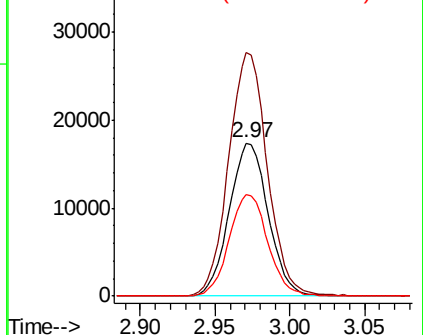


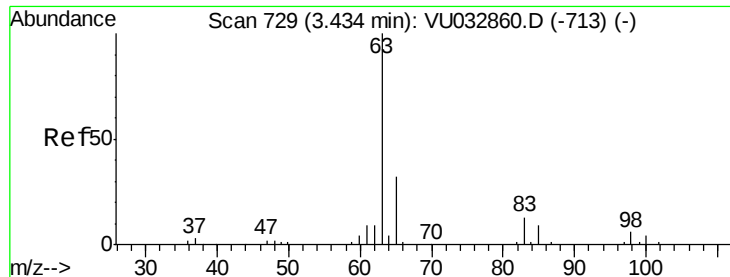
#18  
trans-1,2-Dichloroethene  
Concen: 4.763 ug/L  
RT: 2.97 min Scan# 585  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Tgt Ion: 96 Resp: 31420  
Ion Ratio Lower Upper  
96 100  
61 159.0 103.1 191.5  
98 66.6 43.7 81.1



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

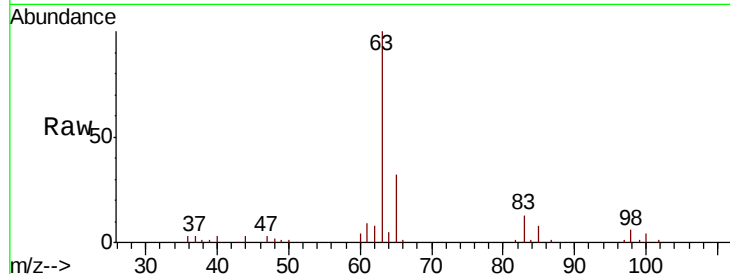




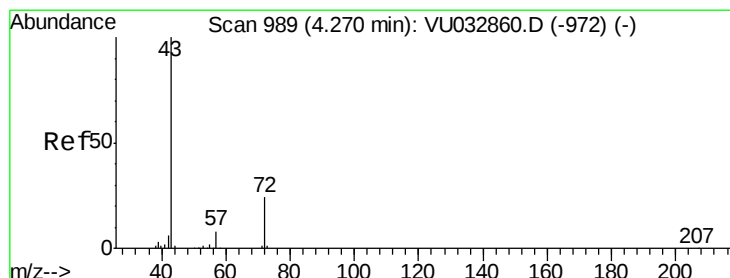
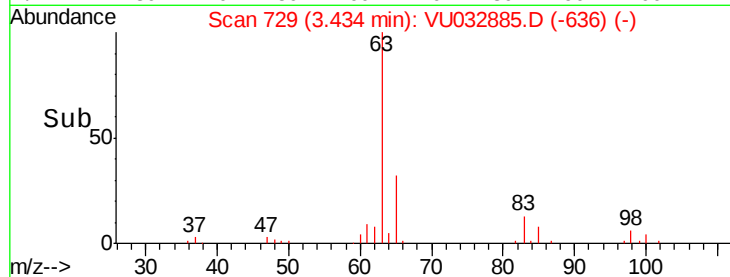
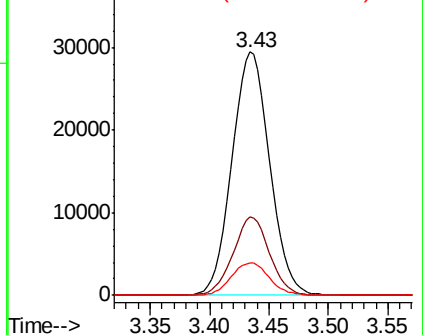
#19  
 1,1-Dichloroethane  
 Concen: 5.469 ug/L  
 RT: 3.43 min Scan# 729  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Tgt Ion: 63 Resp: 64567  
 Ion Ratio Lower Upper  
 63 100  
 65 32.2 21.3 39.6  
 83 13.2 10.1 18.7

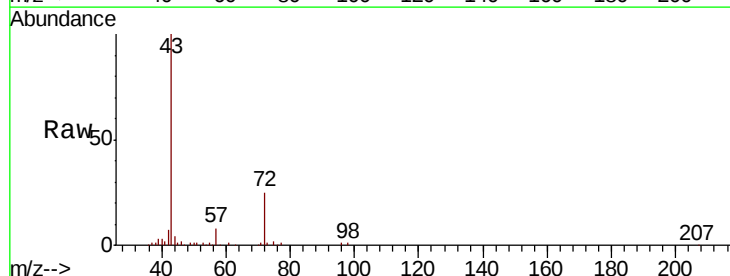


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

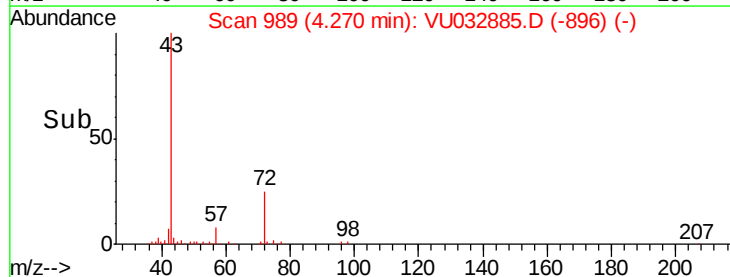
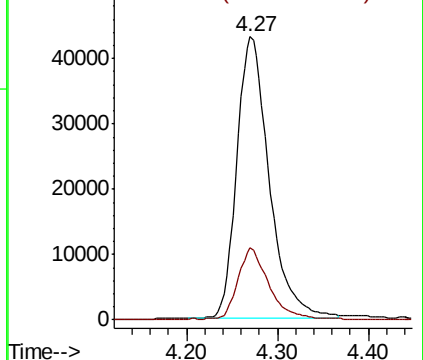


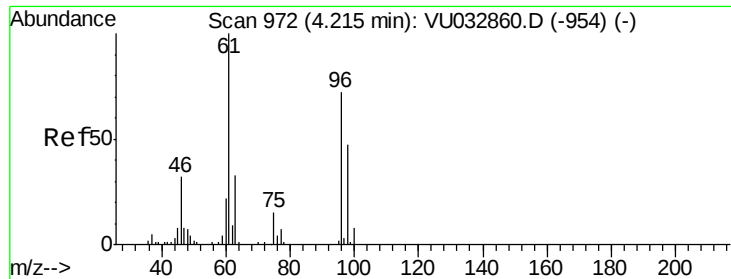
#21  
 2-Butanone  
 Concen: 54.268 ug/L  
 RT: 4.27 min Scan# 989  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion: 43 Resp: 106958  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 13.1 39.3



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



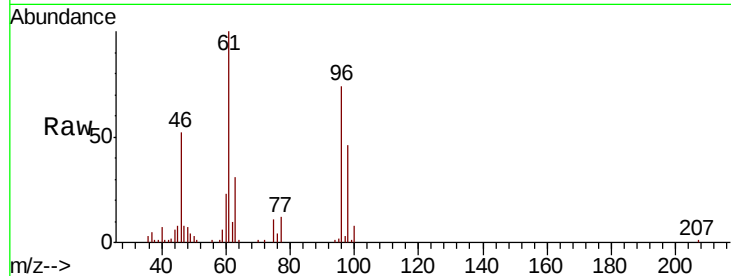


#22

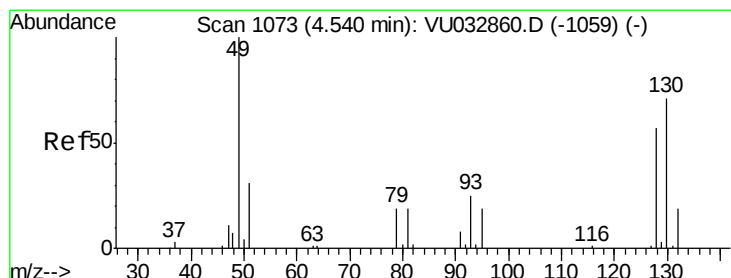
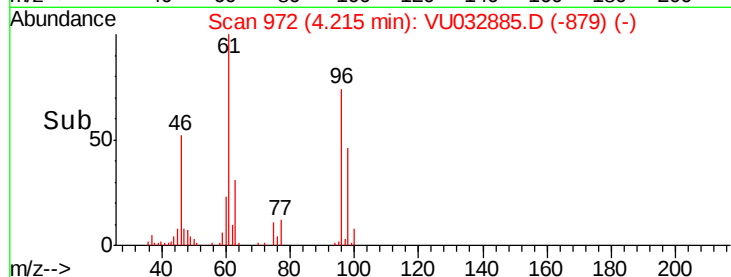
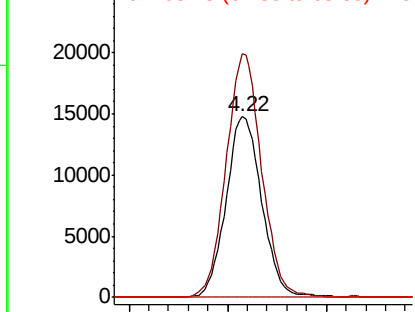
cis-1,2-Dichloroethene  
 Concen: 4.984 ug/L  
 RT: 4.22 min Scan# 972  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Tgt Ion: 96 Resp: 37207  
 Ion Ratio Lower Upper  
 96 100  
 61 134.8 86.6 160.8  
 68 0.0 0.0 0.0



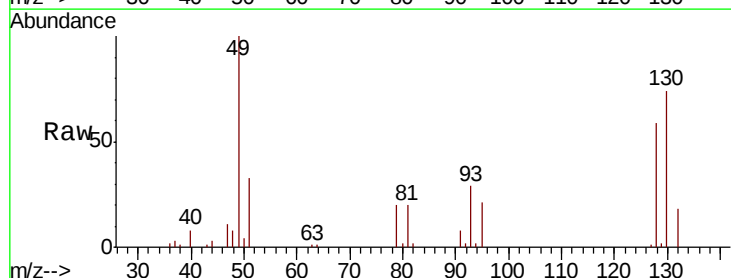
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



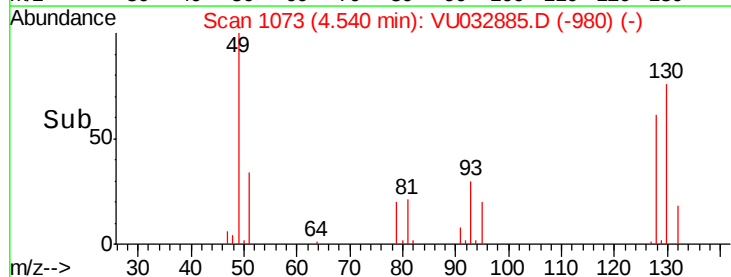
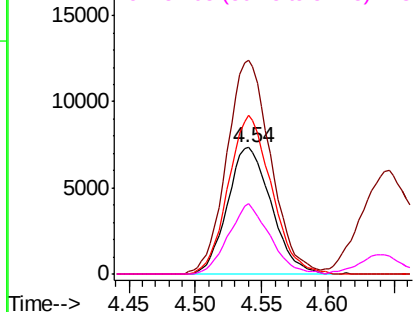
#23

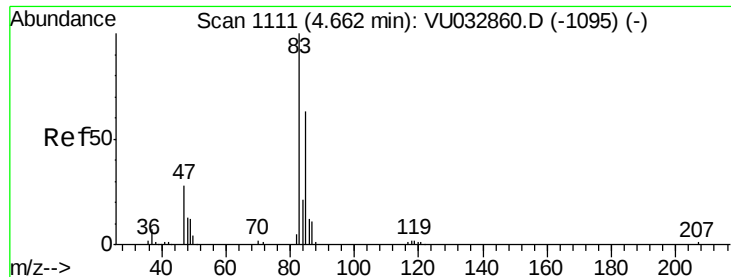
Bromochloromethane  
 Concen: 5.260 ug/L  
 RT: 4.54 min Scan# 1073  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion: 128 Resp: 16901  
 Ion Ratio Lower Upper  
 128 100  
 49 168.7 107.8 200.2  
 130 125.0 89.3 165.9  
 51 55.4 38.2 57.4



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: 5.445 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

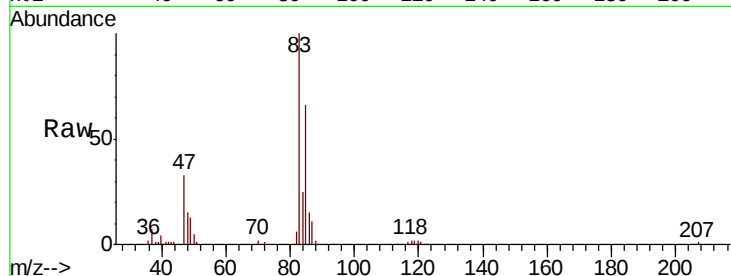
VSTD00530

Tgt Ion: 83 Resp: 65671

Ion Ratio Lower Upper

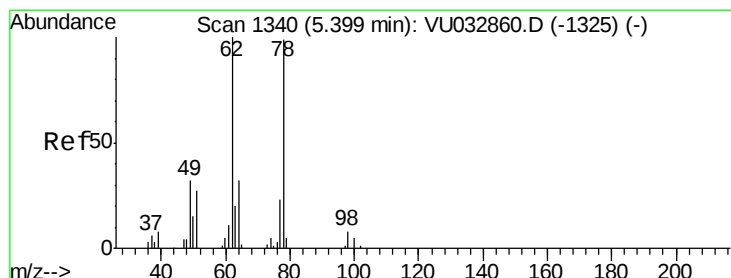
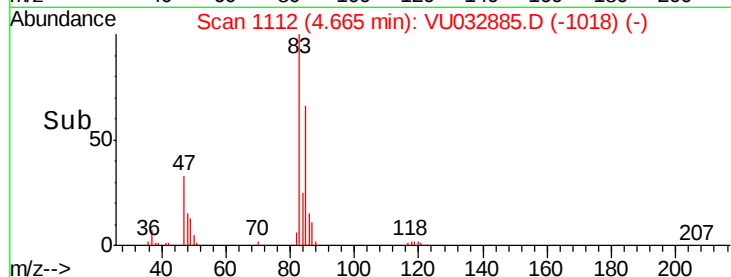
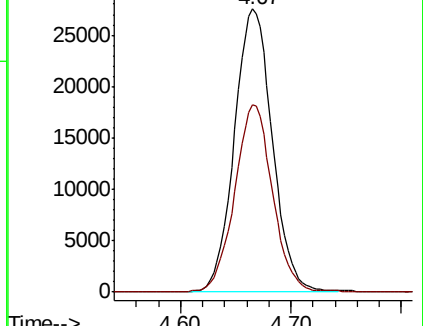
83 100

85 66.0 43.8 81.3



Abundance Ion 83.05 (82.75 to 83.75): VU032860.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU032885.D (-1018) (-)



#27

1,2-Dichloroethane

Concen: 5.647 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU032885.D

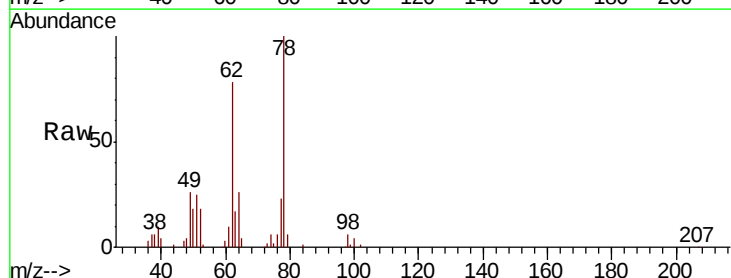
Acq: 20 Jun 2019 02:31

Tgt Ion: 62 Resp: 44768

Ion Ratio Lower Upper

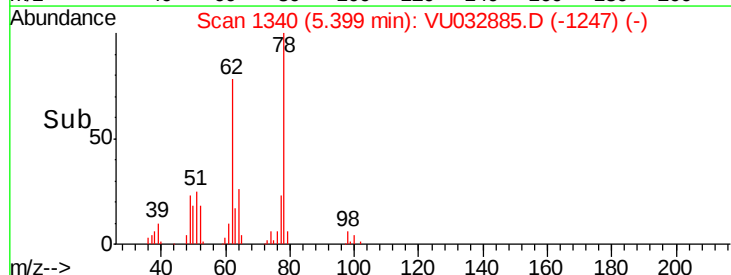
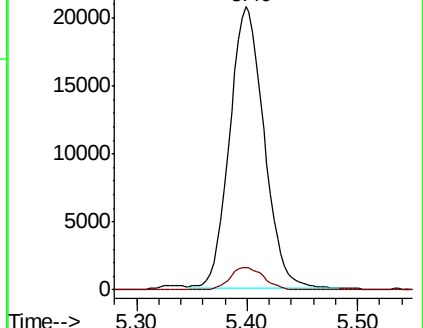
62 100

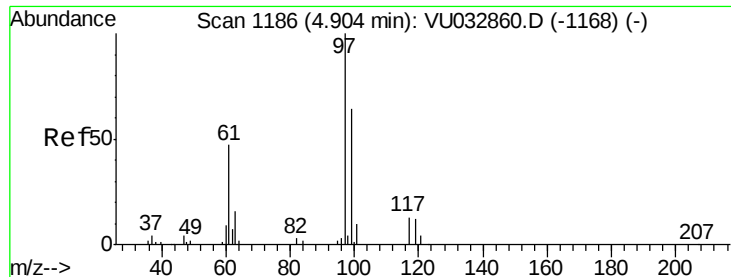
98 8.0 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU032860.D (-1325) (-)

Ion 98.05 (97.75 to 98.75): VU032885.D (-1247) (-)

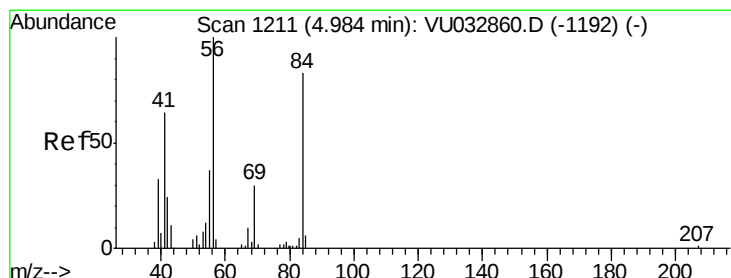
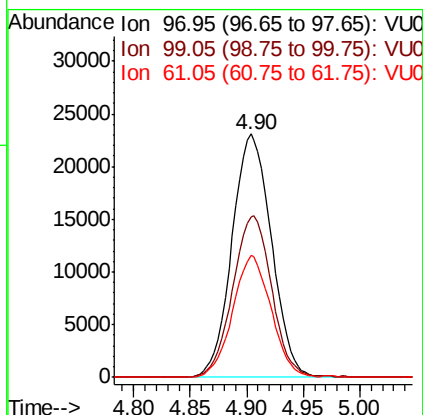
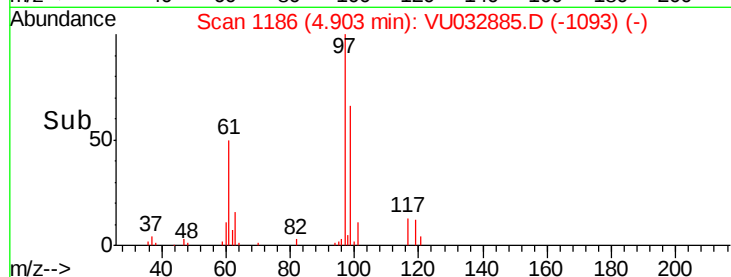
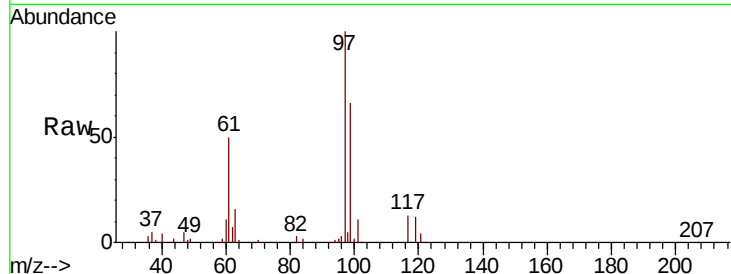




#29  
 1,1,1-Trichloroethane  
 Concen: 4.787 ug/L  
 RT: 4.90 min Scan# 1186  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

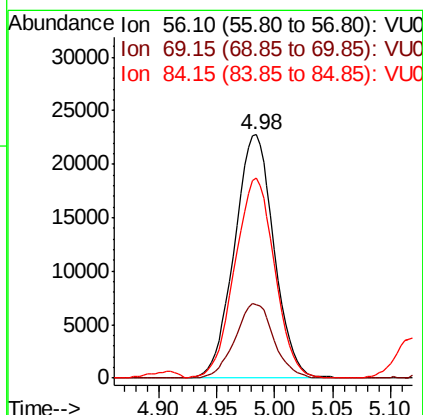
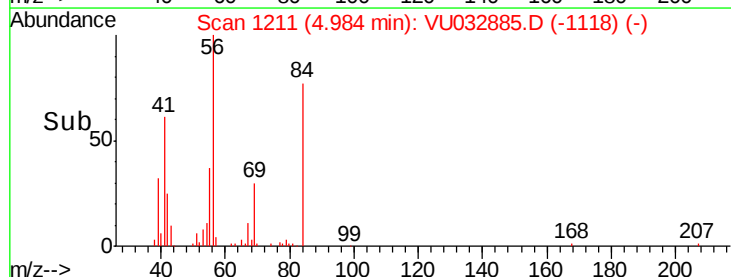
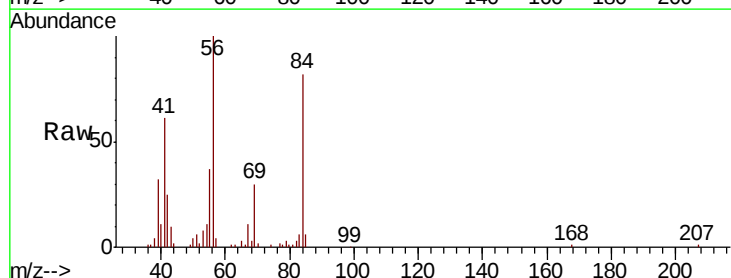
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

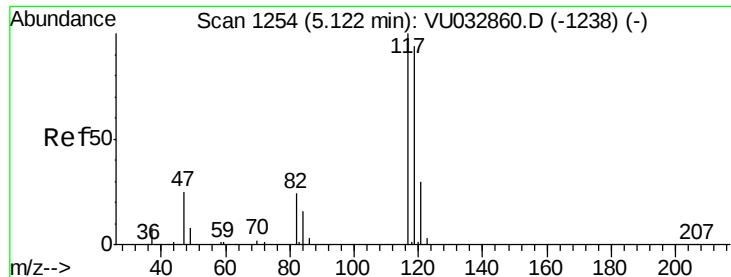
Tgt Ion: 97 Resp: 56103  
 Ion Ratio Lower Upper  
 97 100  
 99 65.6 51.8 77.6  
 61 48.5 34.7 52.1



#30  
 Cyclohexane  
 Concen: 4.343 ug/L  
 RT: 4.98 min Scan# 1211  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion: 56 Resp: 53797  
 Ion Ratio Lower Upper  
 56 100  
 69 29.9 24.9 37.3  
 84 83.0 70.2 105.2





#31

Carbon tetrachloride

Concen: 4.961 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

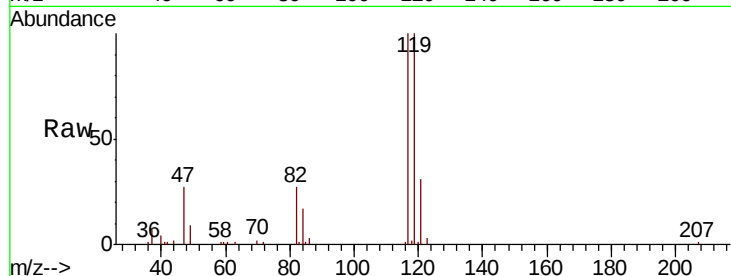
VSTD00530

Tgt Ion:117 Resp: 52872

Ion Ratio Lower Upper

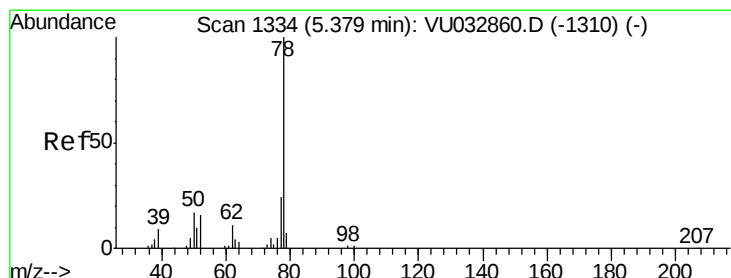
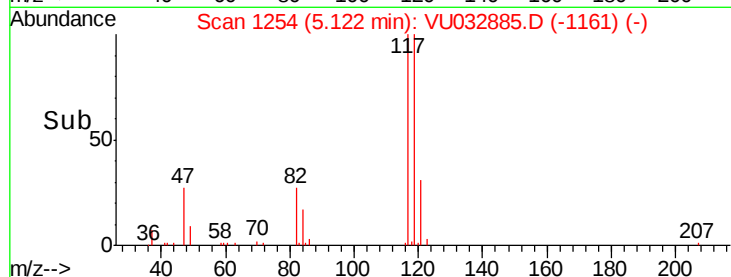
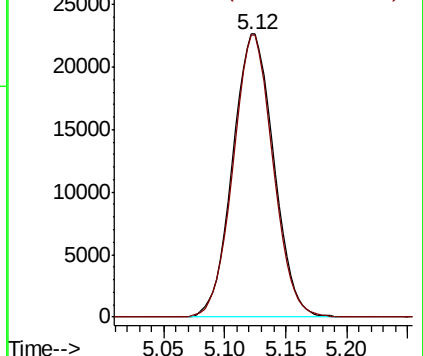
117 100

119 96.5 77.8 116.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.756 ug/L

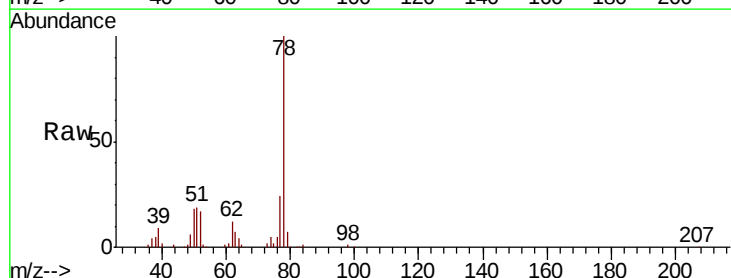
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

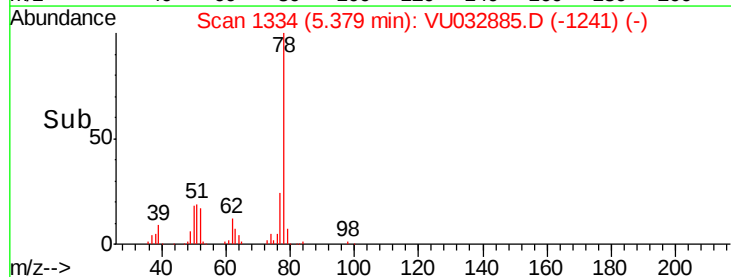
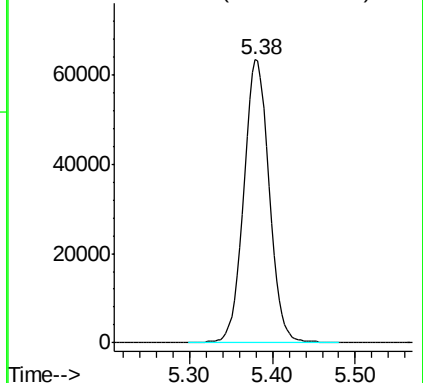
Lab File: VU032885.D

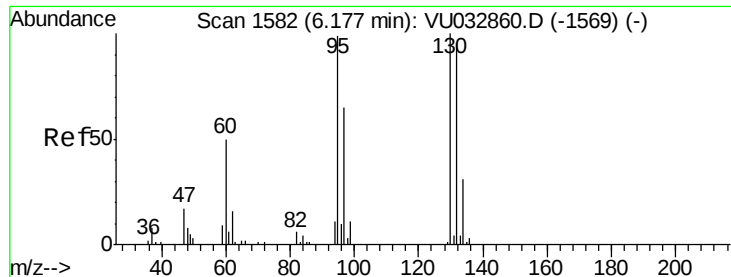
Acq: 20 Jun 2019 02:31

Tgt Ion: 78 Resp: 134866



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.487 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00530

Tgt Ion: 95 Resp: 36598

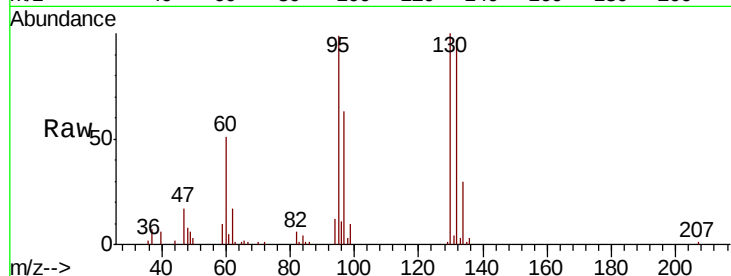
Ion Ratio Lower Upper

95 100

97 63.8 44.1 81.9

132 98.0 68.8 127.8

130 101.5 71.0 131.8

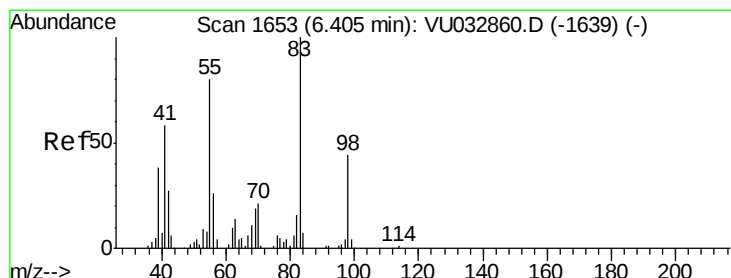
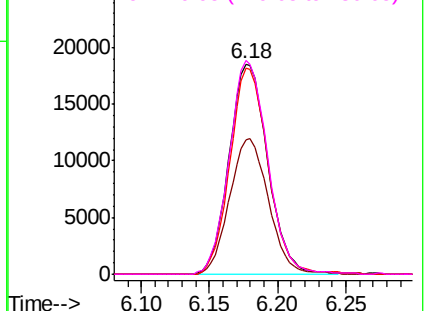
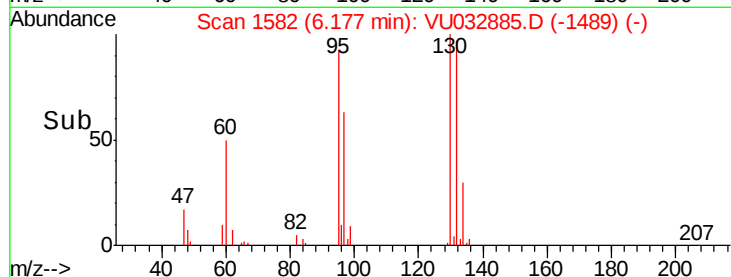


Abundance Ion 95.00 (94.70 to 95.70): VU032885.D (-1489) (-)

Ion 96.95 (96.65 to 97.65): VU032885.D (-1489) (-)

Ion 131.95 (131.65 to 132.65): VU032885.D (-1489) (-)

Ion 129.95 (129.65 to 130.65): VU032885.D (-1489) (-)



#35

Methylcyclohexane

Concen: 4.197 ug/L

RT: 6.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

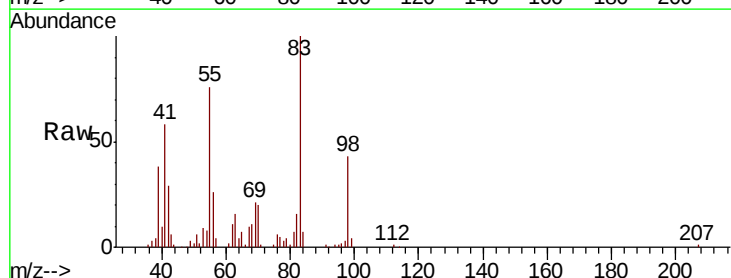
Tgt Ion: 83 Resp: 55059

Ion Ratio Lower Upper

83 100

55 78.6 60.0 90.0

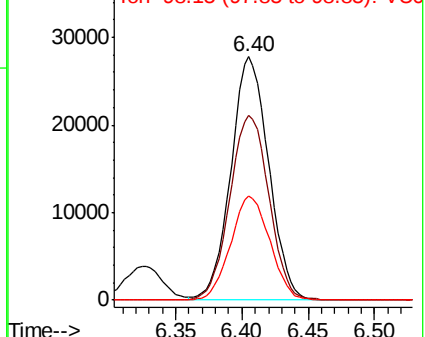
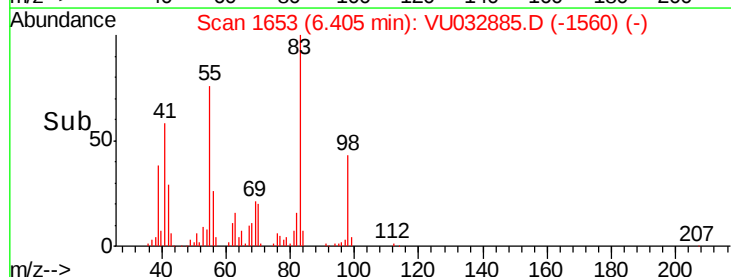
98 44.2 37.8 56.8

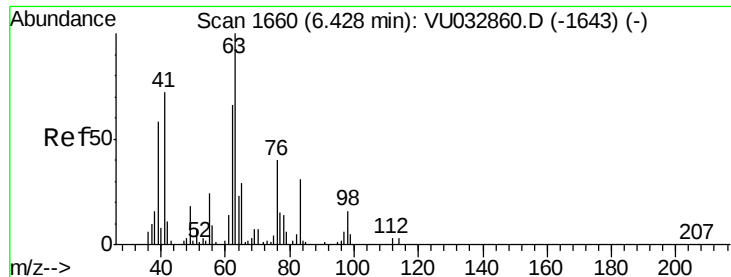


Abundance Ion 83.15 (82.85 to 83.85): VU032885.D (-1560) (-)

Ion 55.10 (54.80 to 55.80): VU032885.D (-1560) (-)

Ion 98.15 (97.85 to 98.85): VU032885.D (-1560) (-)





#37

1,2-Dichloropropane

Concen: 5.066 ug/L

RT: 6.42 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

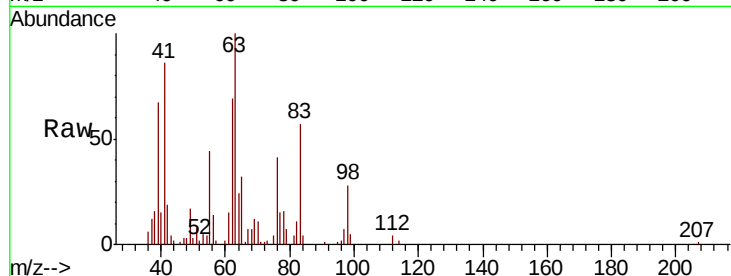
VSTD00530

Tgt Ion: 63 Resp: 37171

Ion Ratio Lower Upper

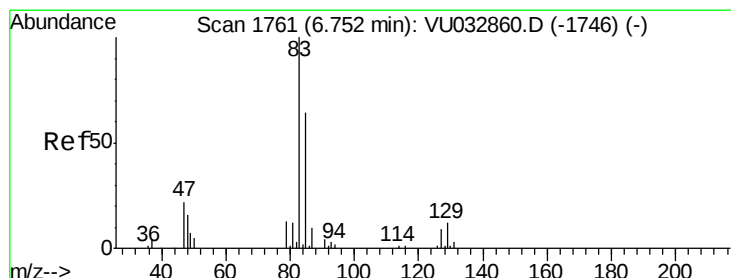
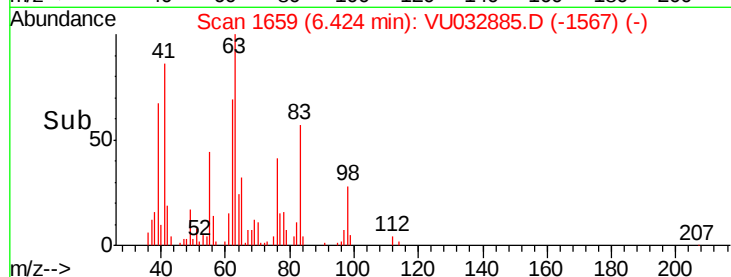
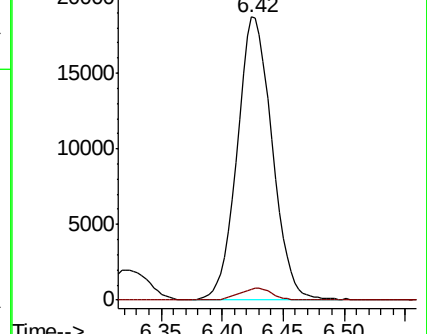
63 100

112 3.8 2.9 4.3



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 4.988 ug/L

RT: 6.75 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

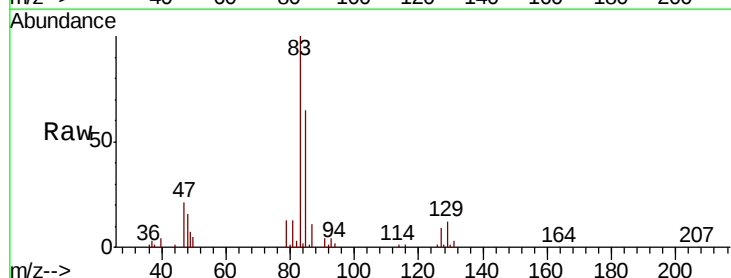
Tgt Ion: 83 Resp: 47043

Ion Ratio Lower Upper

83 100

85 64.8 45.2 84.0

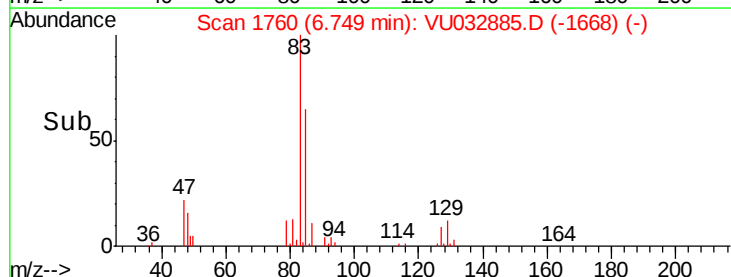
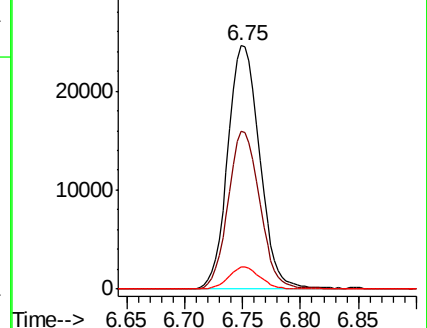
127 8.9 7.4 11.2

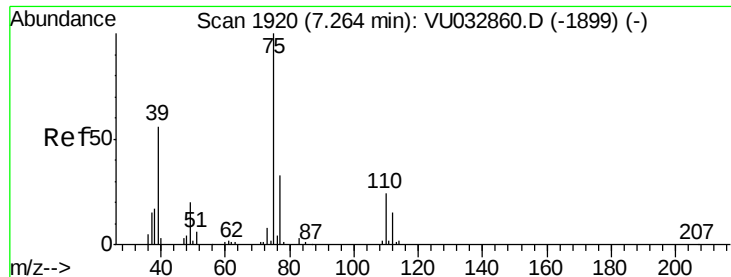


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

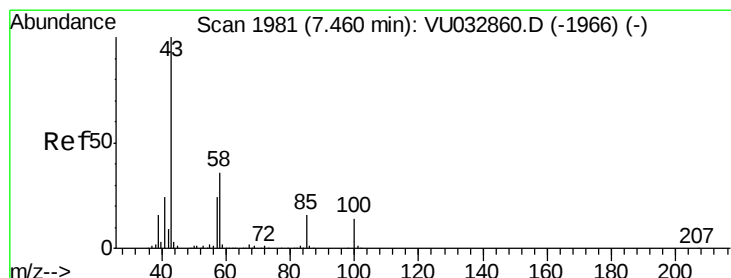
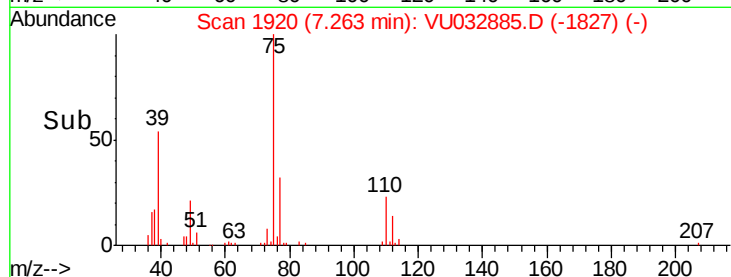
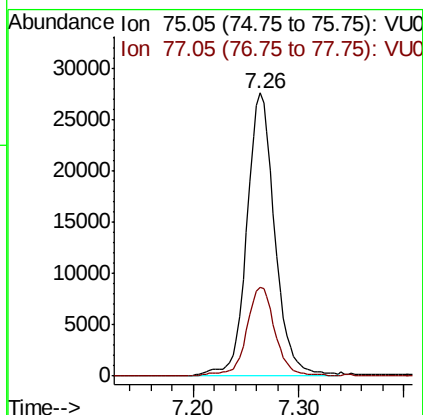
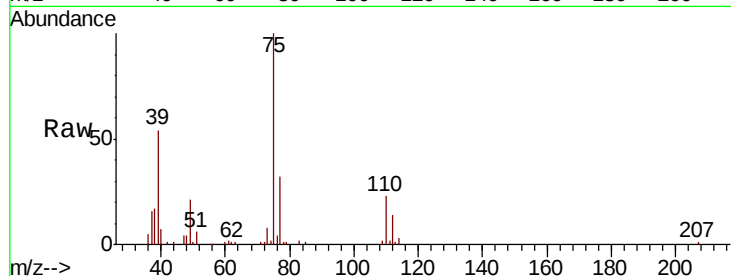




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.553 ug/L  
 RT: 7.26 min Scan# 1920  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

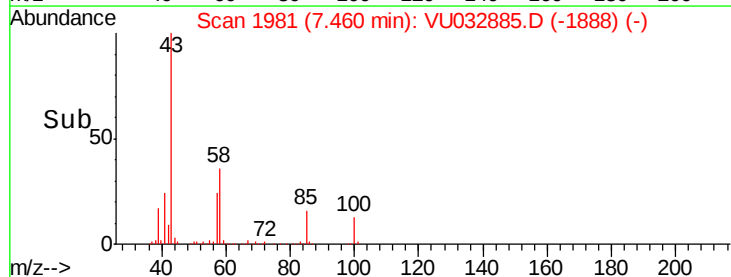
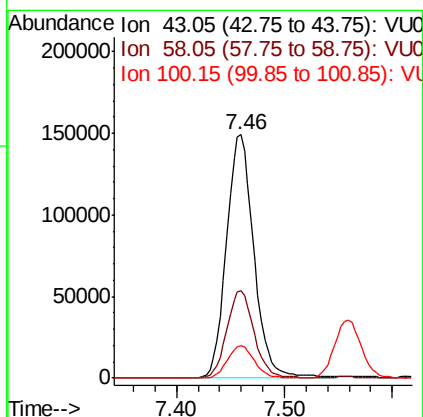
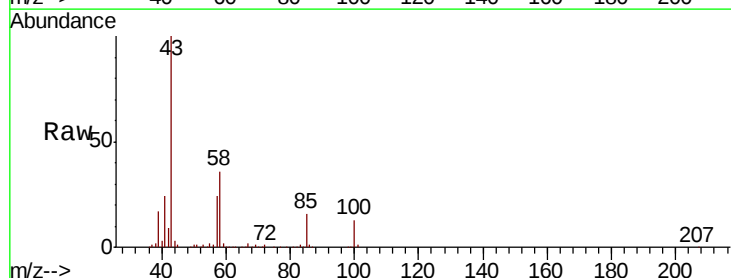
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

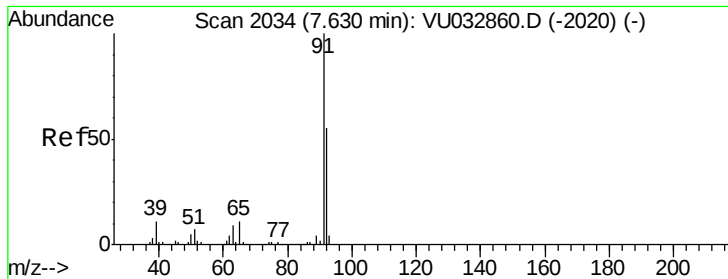
Tgt Ion: 75 Resp: 51293  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 22.2 41.2



#40  
 4-Methyl-2-pentanone  
 Concen: 50.751 ug/L  
 RT: 7.46 min Scan# 1981  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion: 43 Resp: 264997  
 Ion Ratio Lower Upper  
 43 100  
 58 35.6 30.9 46.3  
 100 13.2 11.9 17.9





#42

Toluene

Concen: 4.768 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

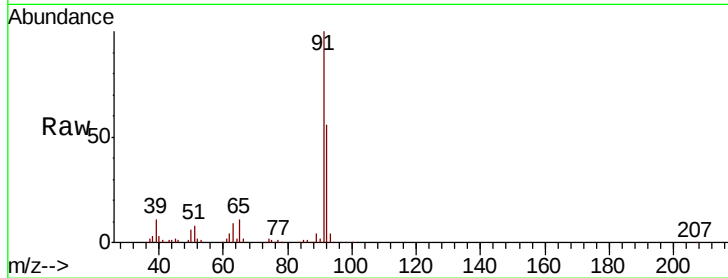
VSTD00530

Tgt Ion: 91 Resp: 150691

Ion Ratio Lower Upper

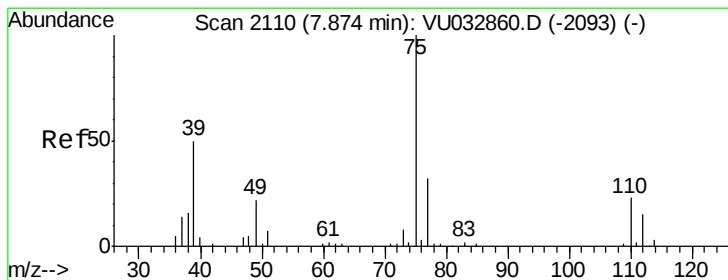
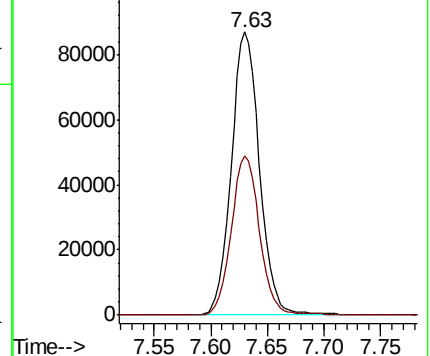
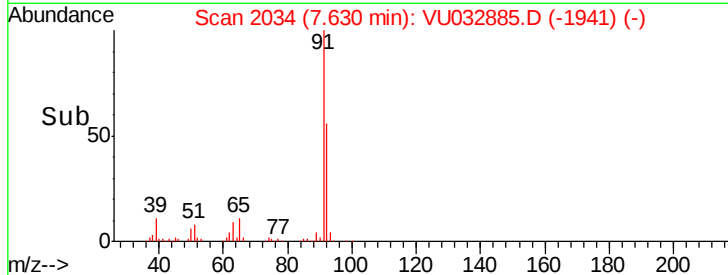
91 100

92 56.1 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU032860.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU032885.D (-1941) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.711 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032885.D

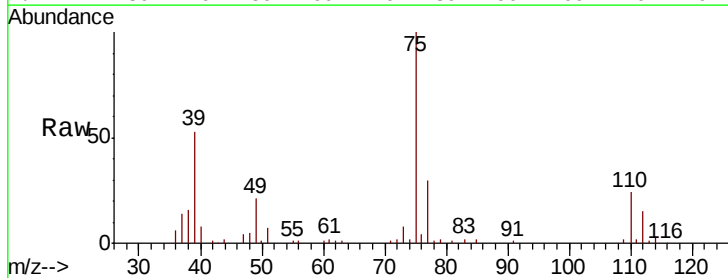
Acq: 20 Jun 2019 02:31

Tgt Ion: 75 Resp: 42373

Ion Ratio Lower Upper

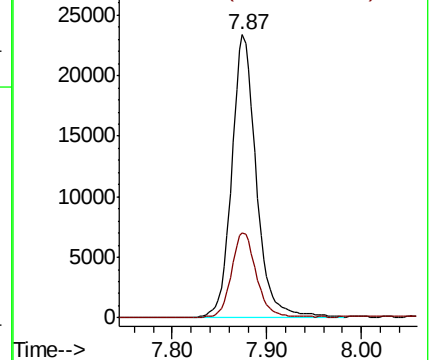
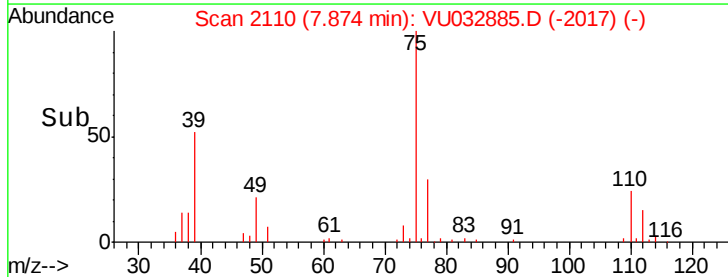
75 100

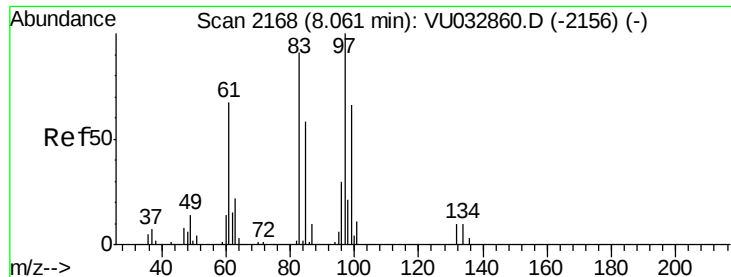
77 30.2 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU032860.D (-2093) (-)

Ion 77.05 (76.75 to 77.75): VU032885.D (-2017) (-)

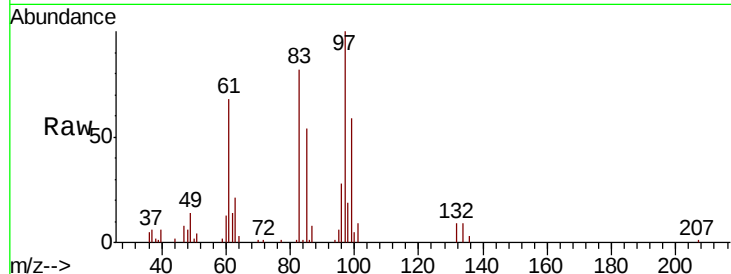




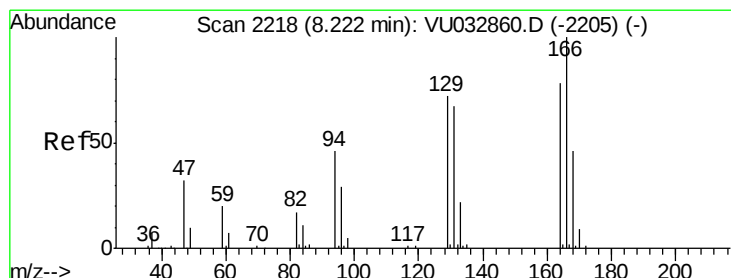
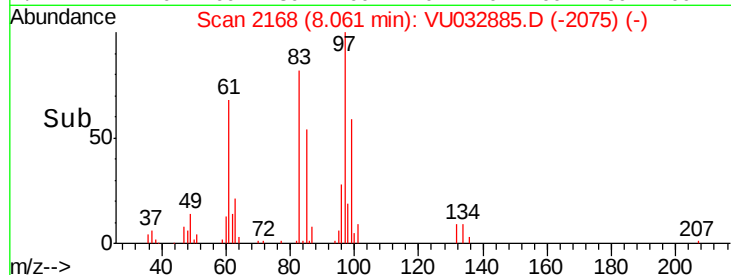
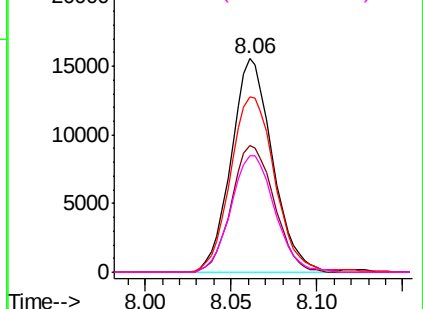
#45  
 1,1,2-Trichloroethane  
 Concen: 4.890 ug/L  
 RT: 8.06 min Scan# 2168  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 26107 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 59.3  | 44.9  | 83.3  |
| 83       | 82.2  | 58.7  | 108.9 |
| 85       | 54.3  | 37.9  | 70.5  |

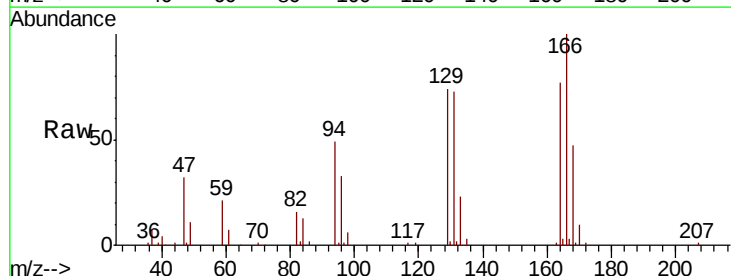


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

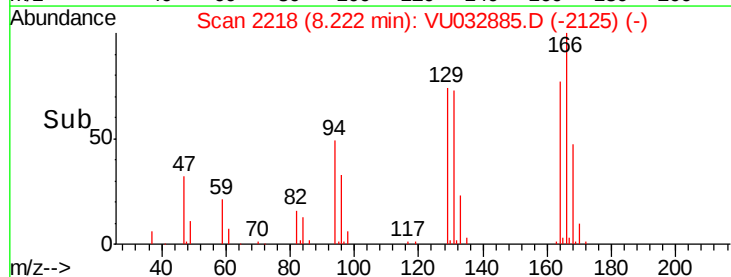
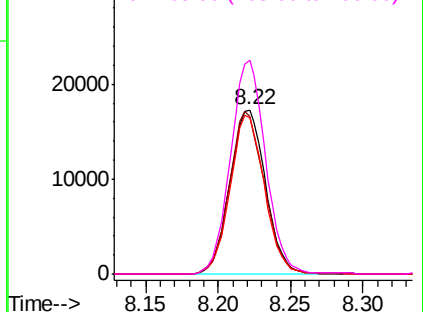


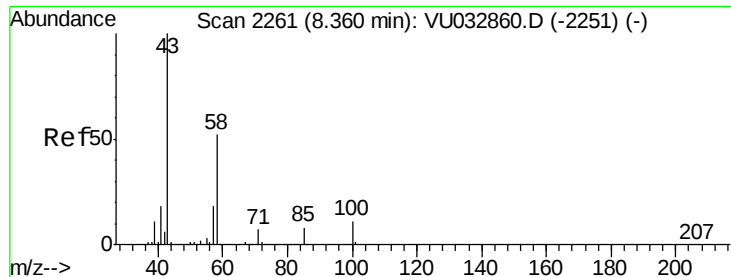
#47  
 Tetrachloroethene  
 Concen: 4.593 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 29481 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.1  | 66.1  | 122.7 |
| 131      | 95.0  | 65.6  | 121.8 |
| 166      | 130.3 | 93.2  | 173.2 |



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

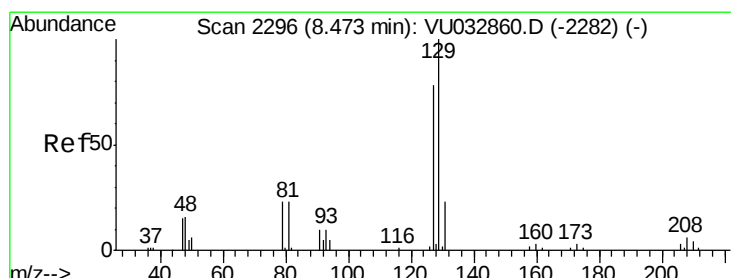
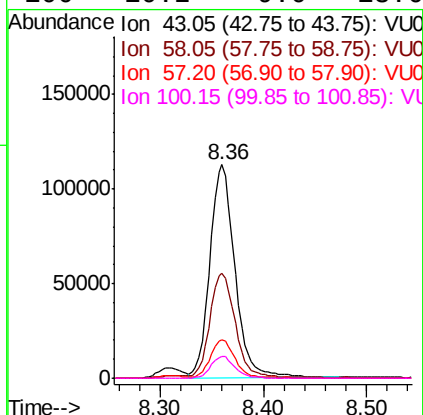
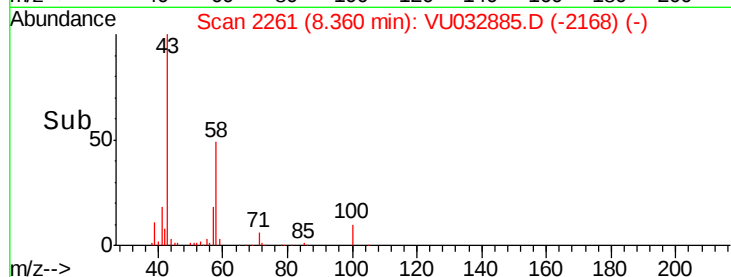
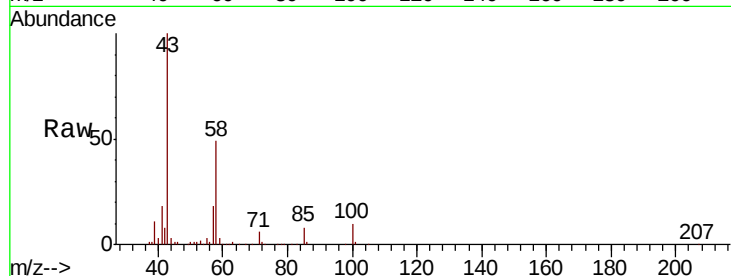




#48  
2-Hexanone  
Concen: 50.791 ug/L  
RT: 8.36 min Scan# 2261  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

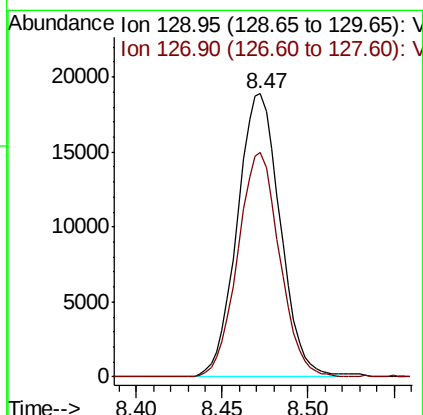
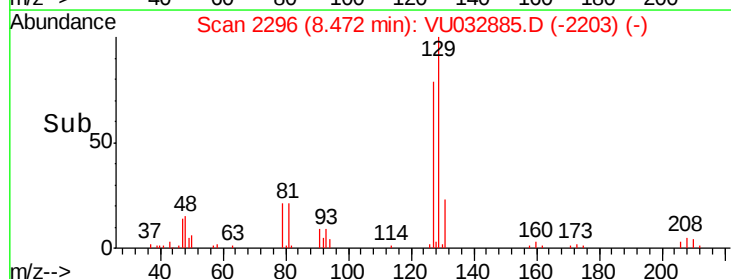
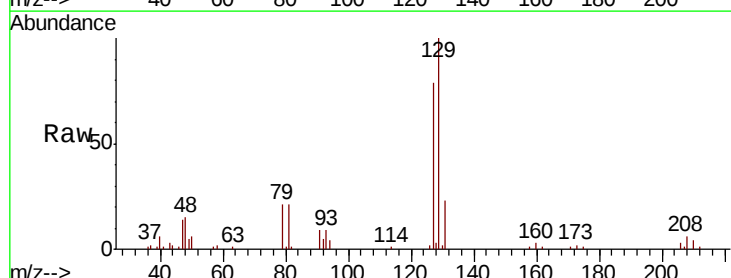
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00530

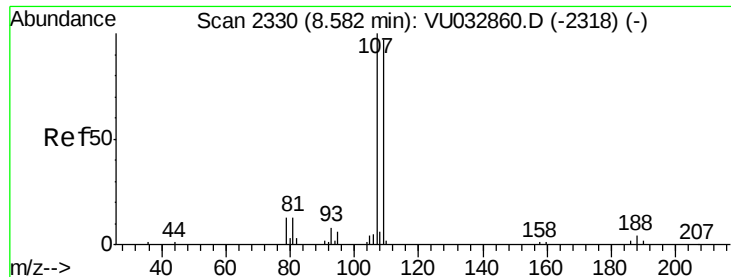
Tgt Ion: 43 Resp: 189521  
Ion Ratio Lower Upper  
43 100  
58 50.2 41.9 62.9  
57 17.2 15.1 22.7  
100 10.2 9.0 13.6



#49  
Dibromochloromethane  
Concen: 4.786 ug/L  
RT: 8.47 min Scan# 2296  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Tgt Ion: 129 Resp: 32681  
Ion Ratio Lower Upper  
129 100  
127 79.4 53.3 98.9

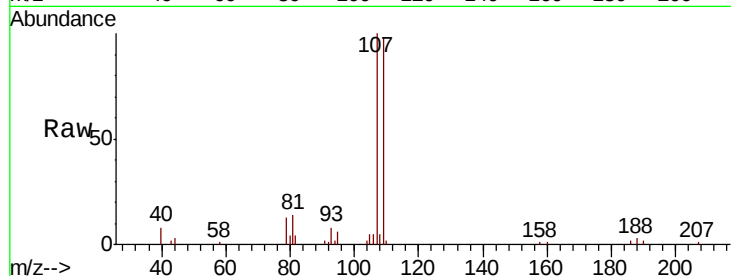




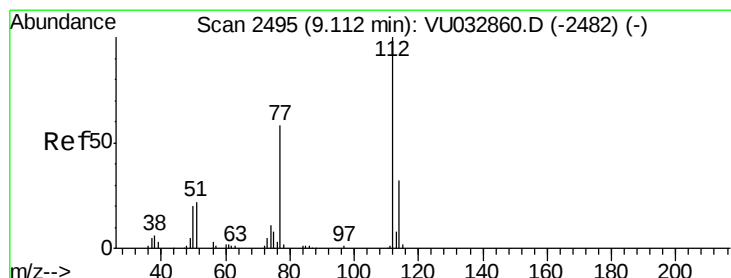
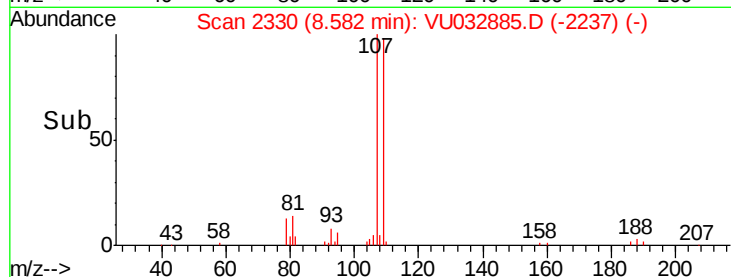
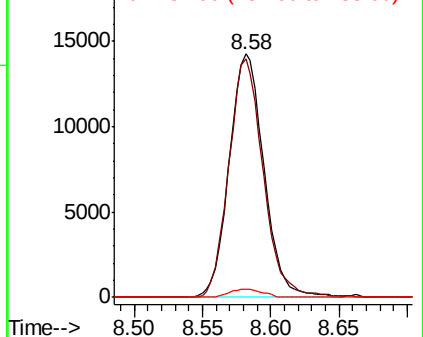
#50  
1,2-Dibromoethane  
Concen: 4.732 ug/L  
RT: 8.58 min Scan# 2330  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00530

Tgt Ion:107 Resp: 25174  
Ion Ratio Lower Upper  
107 100  
109 98.2 65.2 121.0  
188 3.4 3.1 4.7

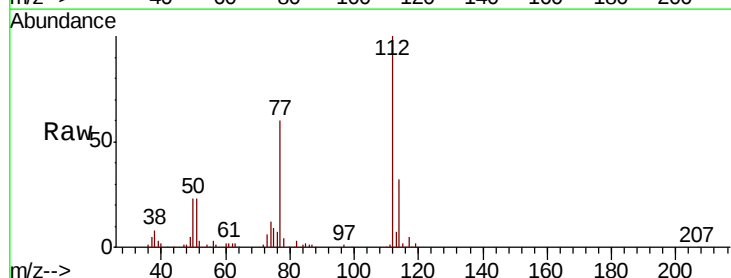


Abundance Ion 106.95 (106.65 to 107.65): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 187.90 (187.60 to 188.60): V

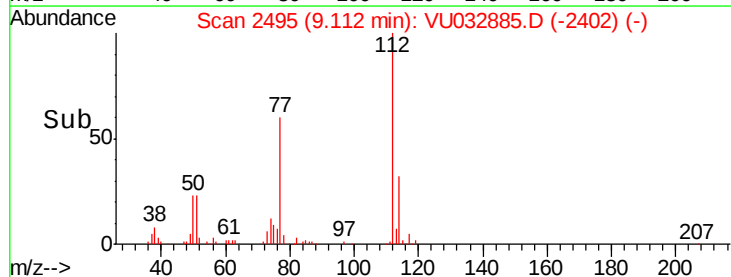
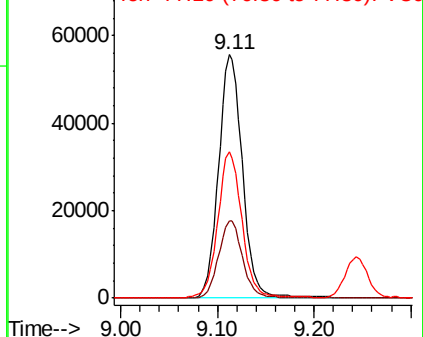


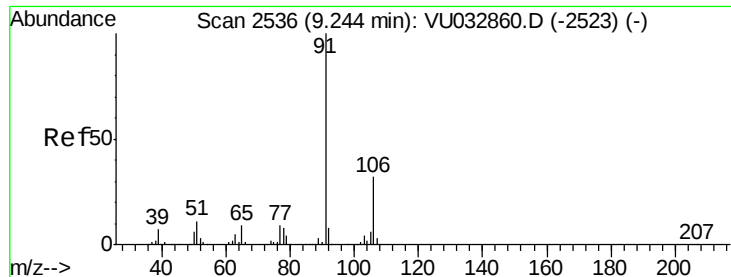
#51  
Chlorobenzene  
Concen: 4.814 ug/L  
RT: 9.11 min Scan# 2495  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Tgt Ion:112 Resp: 95387  
Ion Ratio Lower Upper  
112 100  
114 31.7 22.4 41.6  
77 60.1 46.5 69.7



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): V





#52

Ethylbenzene

Concen: 4.625 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

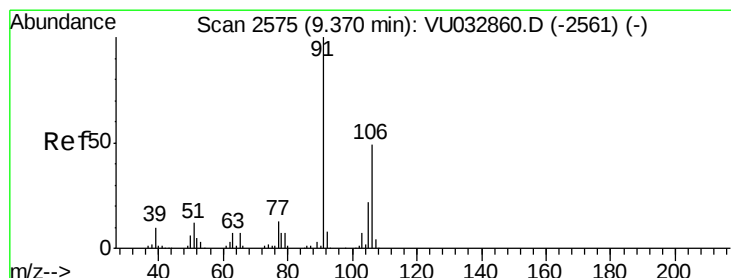
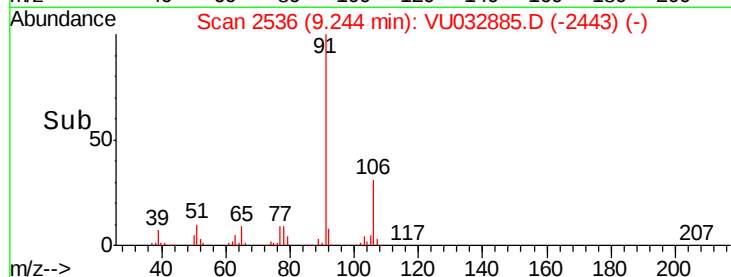
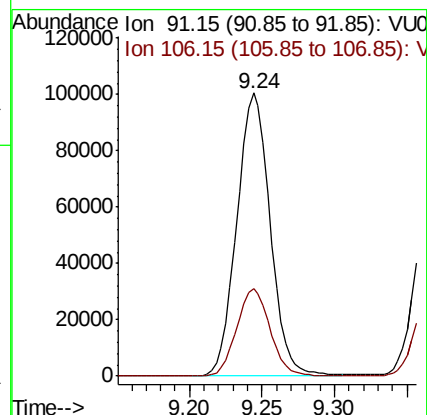
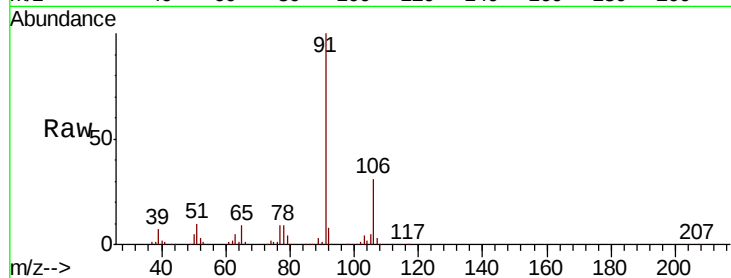
VSTD00530

Tgt Ion: 91 Resp: 161093

Ion Ratio Lower Upper

91 100

106 31.0 21.8 40.6



#53

m,p-Xylene

Concen: 4.638 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032885.D

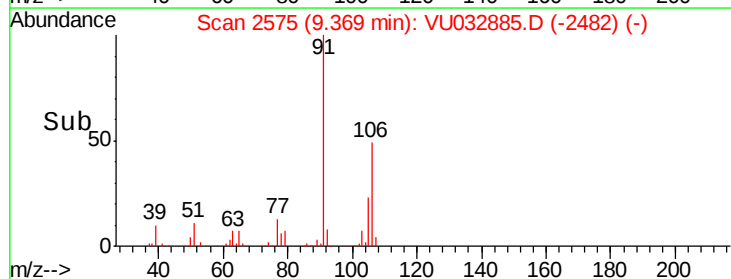
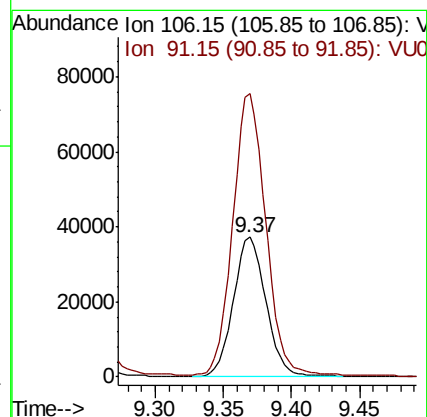
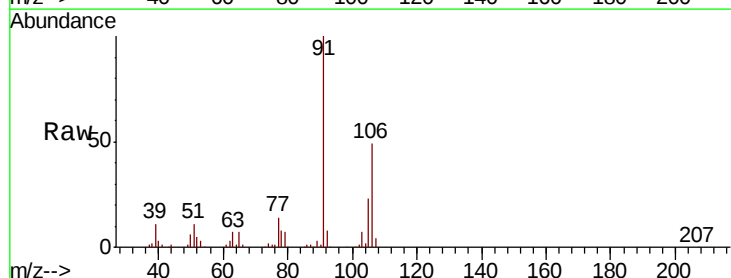
Acq: 20 Jun 2019 02:31

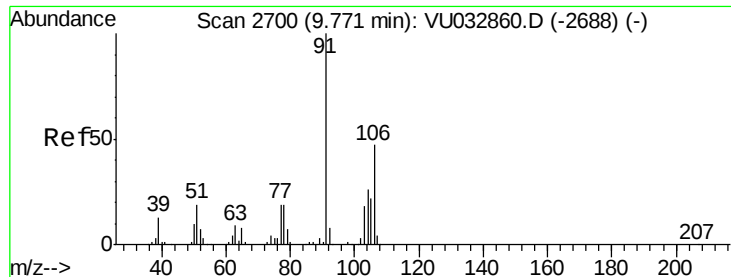
Tgt Ion: 106 Resp: 61251

Ion Ratio Lower Upper

106 100

91 202.2 142.4 264.4

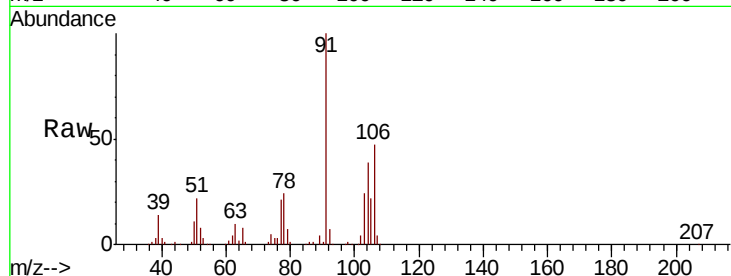




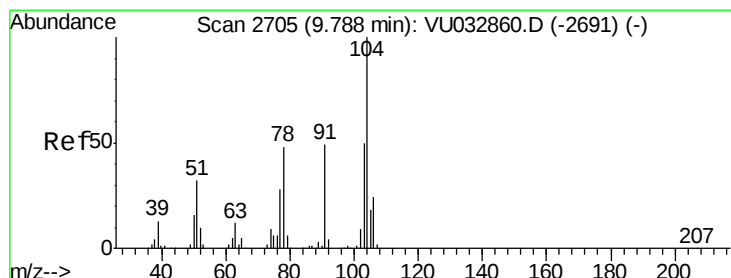
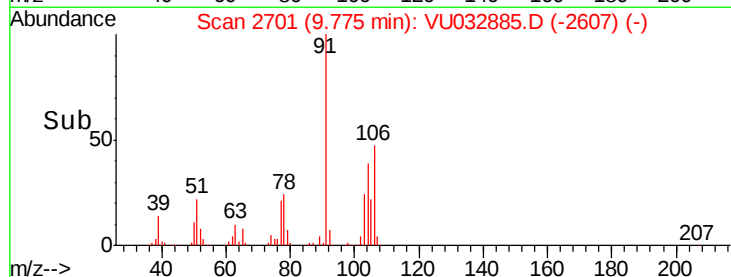
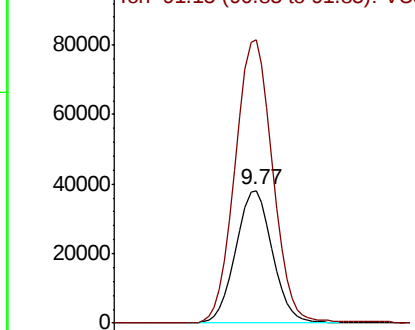
#54  
o-Xylene  
Concen: 4.519 ug/L  
RT: 9.77 min Scan# 2701  
Delta R.T. 0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD00530

Tgt Ion:106 Resp: 59550  
Ion Ratio Lower Upper  
106 100  
91 213.4 148.8 276.4

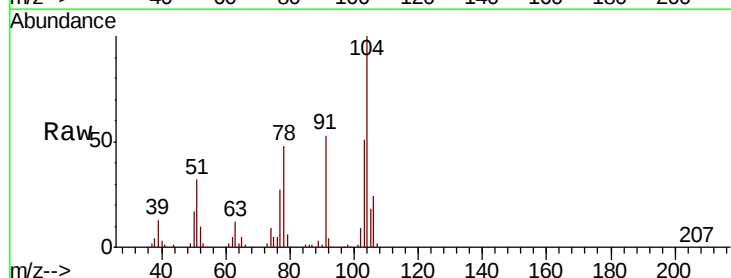


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

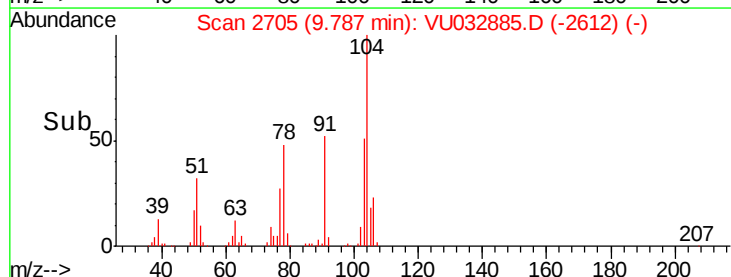
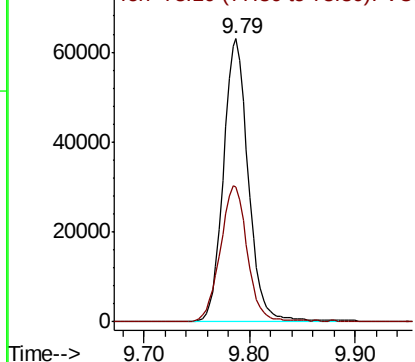


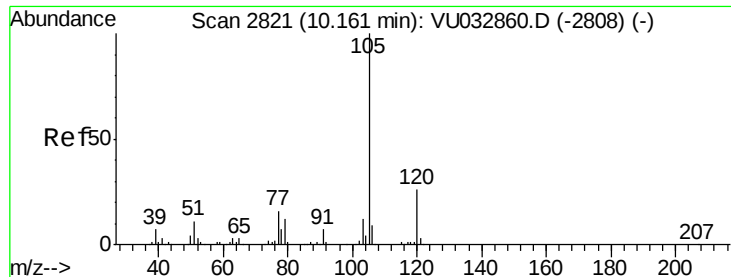
#55  
Styrene  
Concen: 4.762 ug/L  
RT: 9.79 min Scan# 2705  
Delta R.T. -0.00 min  
Lab File: VU032885.D  
Acq: 20 Jun 2019 02:31

Tgt Ion:104 Resp: 103257  
Ion Ratio Lower Upper  
104 100  
78 47.7 32.2 59.8



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





#56

Isopropylbenzene

Concen: 4.616 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00530

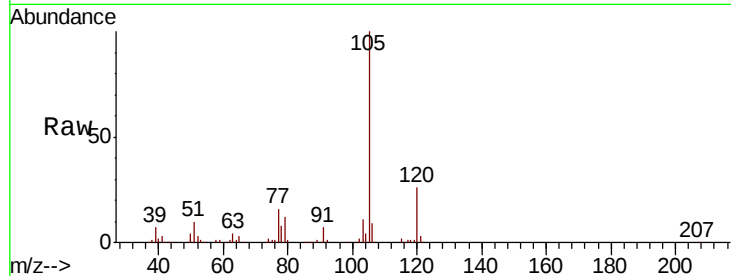
Tgt Ion: 105 Resp: 160472

Ion Ratio Lower Upper

105 100

120 25.6 21.6 32.4

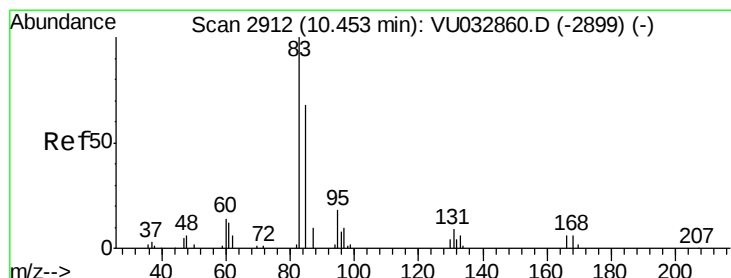
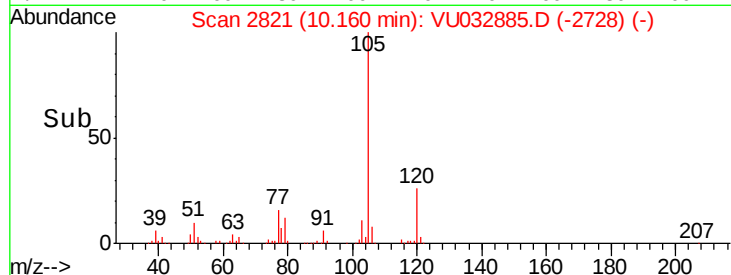
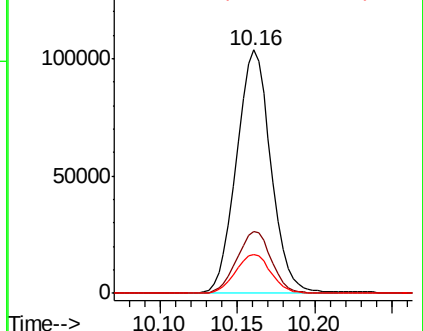
77 16.5 12.3 18.5



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: 5.042 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

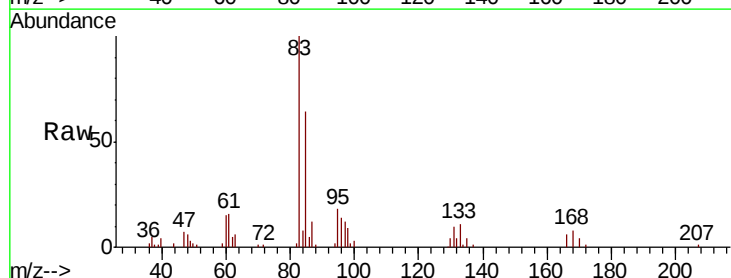
Tgt Ion: 83 Resp: 34424

Ion Ratio Lower Upper

83 100

85 64.1 45.7 84.9

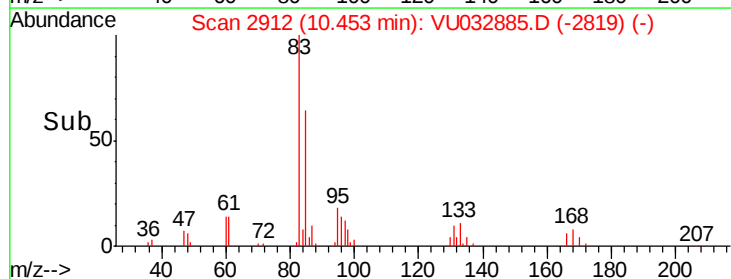
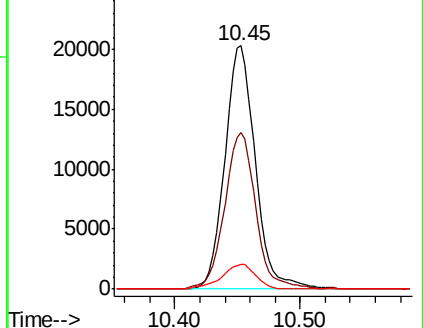
131 10.3 8.0 12.0

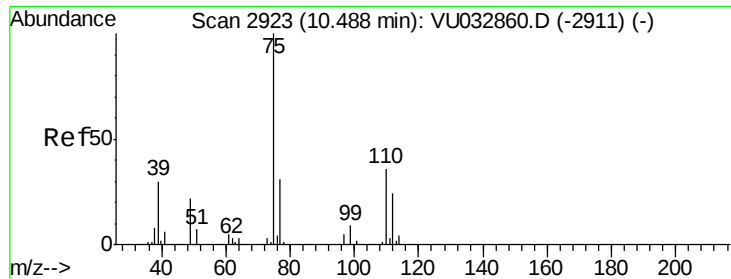


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

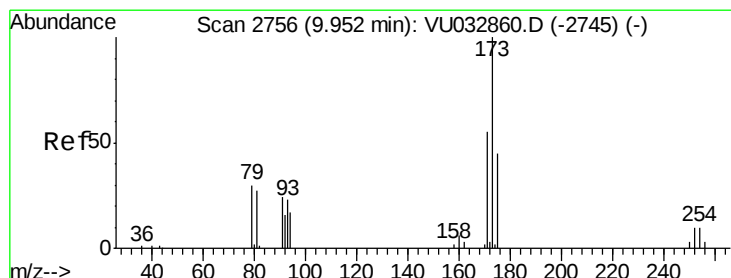
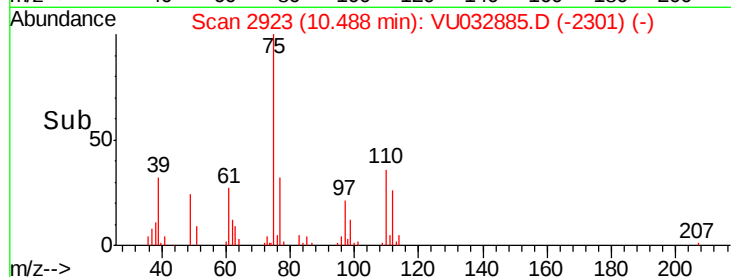
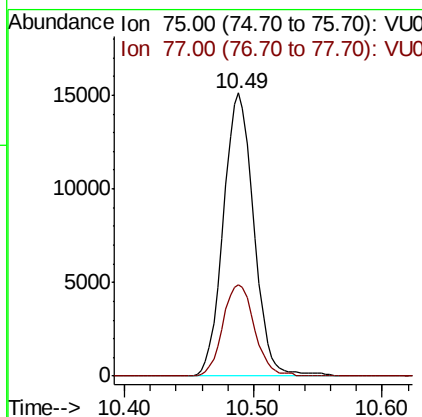
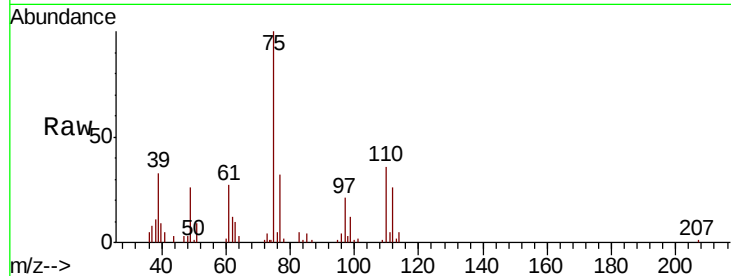




#59  
 1,2,3-Trichloropropane  
 Concen: 5.145 ug/L  
 RT: 10.49 min Scan# 2923  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

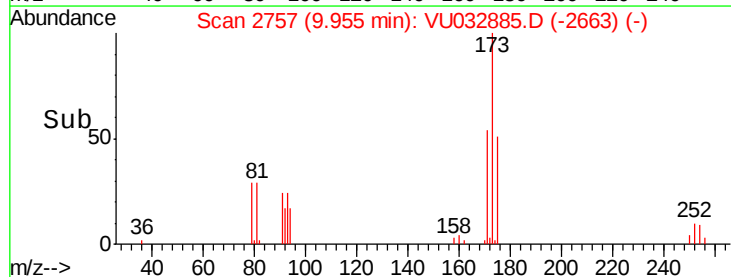
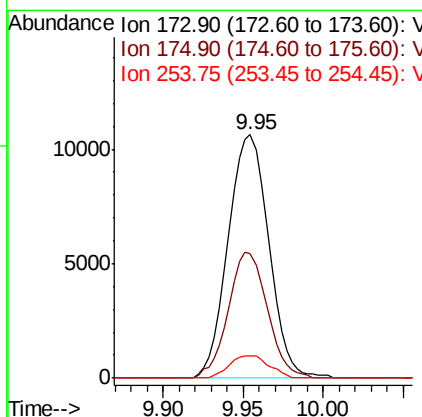
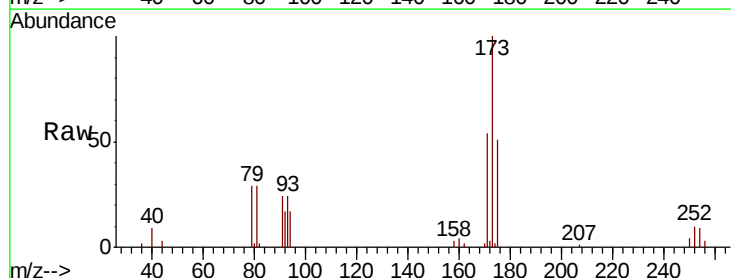
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

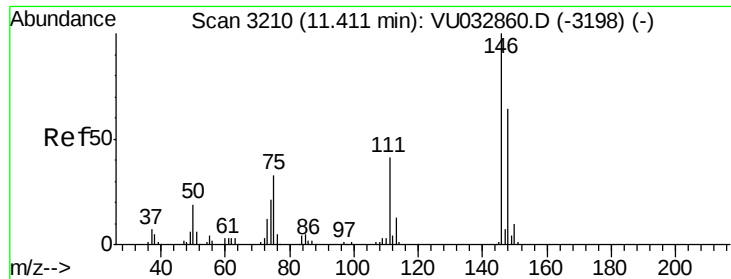
Tgt Ion: 75 Resp: 24788  
 Ion Ratio Lower Upper  
 75 100  
 77 33.6 25.3 37.9



#61  
 Bromoform  
 Concen: 4.380 ug/L  
 RT: 9.95 min Scan# 2757  
 Delta R.T. 0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion: 173 Resp: 18465  
 Ion Ratio Lower Upper  
 173 100  
 175 49.5 37.9 56.9  
 254 8.9 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 4.609 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00530

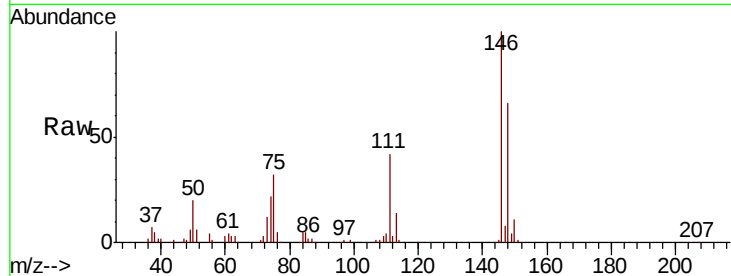
Tgt Ion:146 Resp: 78941

Ion Ratio Lower Upper

146 100

111 41.7 27.7 51.5

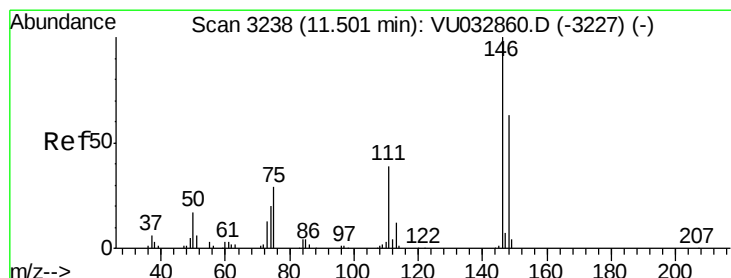
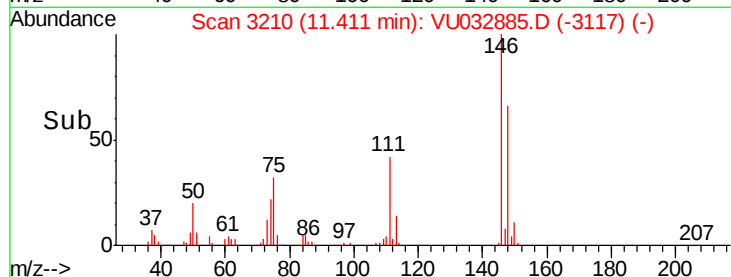
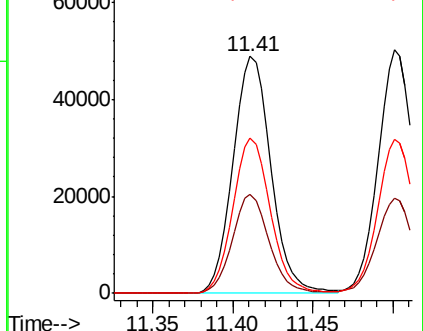
148 65.7 44.7 83.1



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.634 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

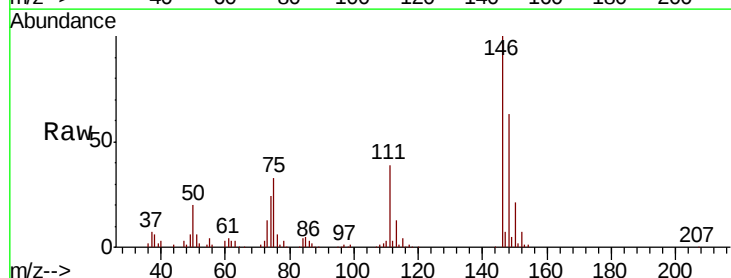
Tgt Ion:146 Resp: 80677

Ion Ratio Lower Upper

146 100

111 39.2 26.2 48.6

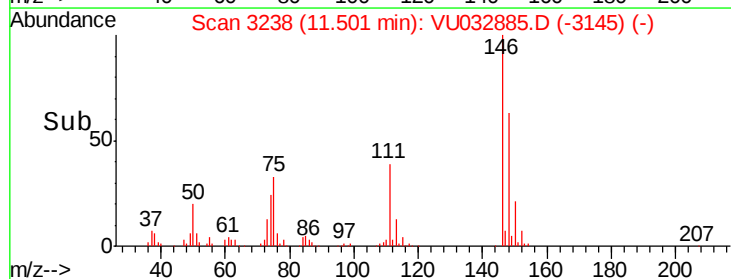
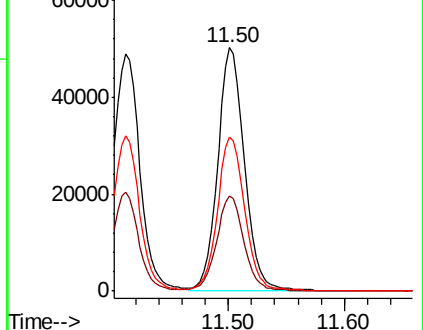
148 63.1 43.9 81.5

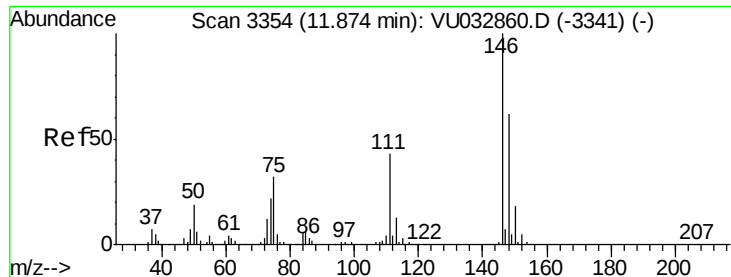


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.768 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00530

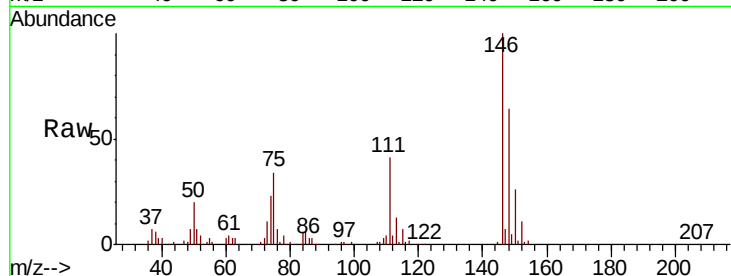
Tgt Ion:146 Resp: 78902

Ion Ratio Lower Upper

146 100

111 40.5 33.0 49.4

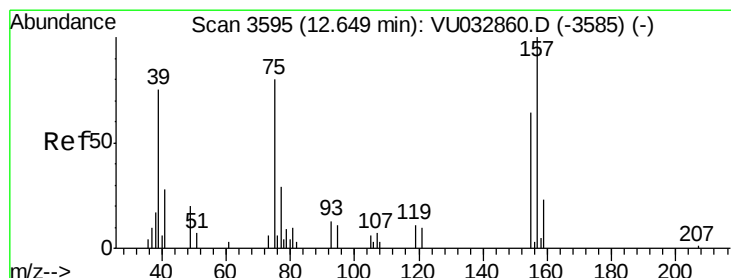
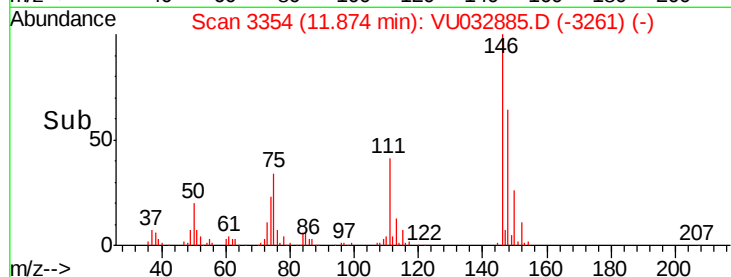
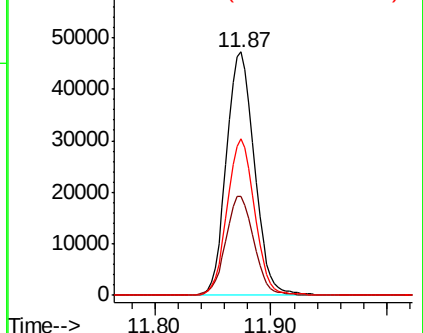
148 64.4 51.5 77.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.393 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

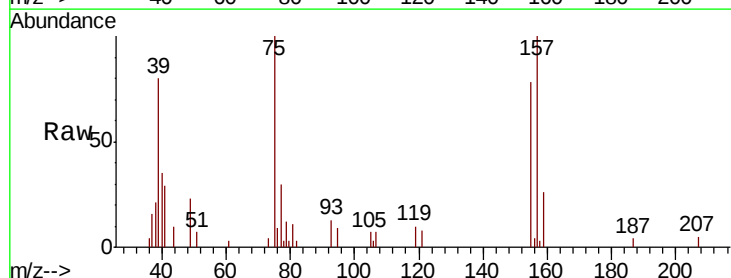
Tgt Ion: 75 Resp: 6266

Ion Ratio Lower Upper

75 100

155 78.4 72.3 108.5

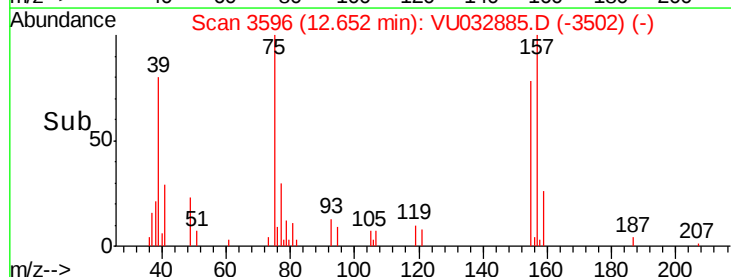
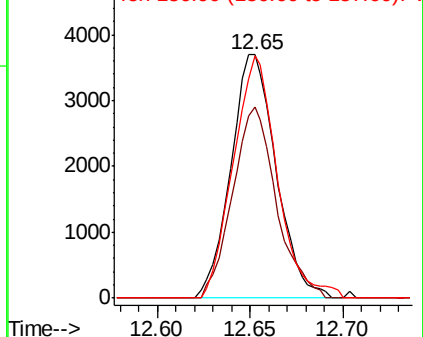
157 99.7 87.4 131.0

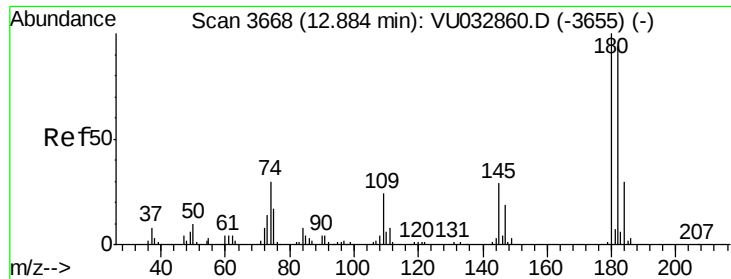


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

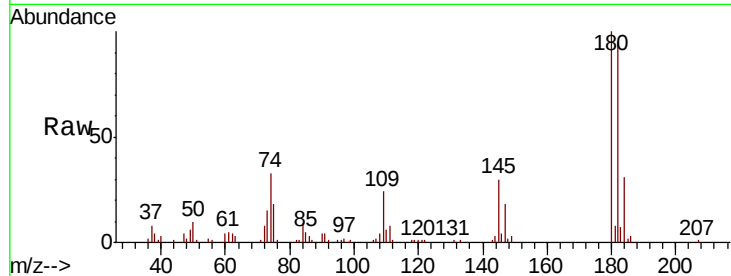




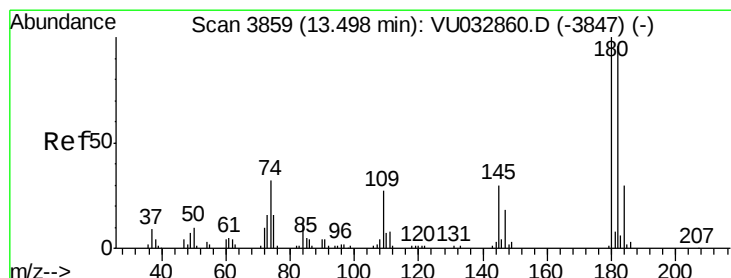
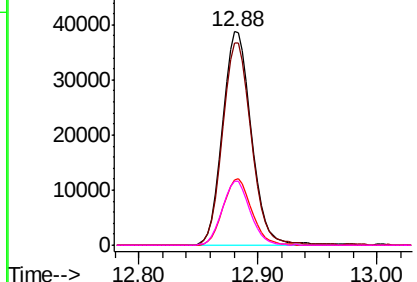
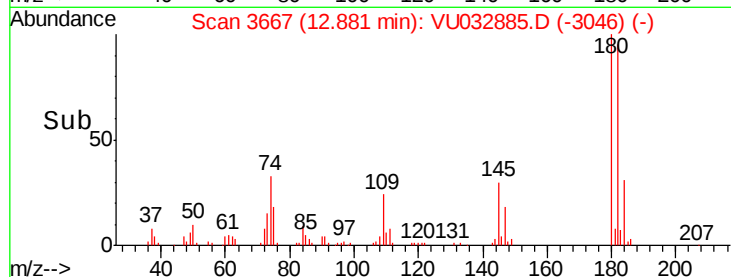
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.747 ug/L  
 RT: 12.88 min Scan# 3667  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00530

Tgt Ion:180 Resp: 65164  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 76.6 115.0  
 184 30.7 24.2 36.4  
 145 29.0 23.5 35.3

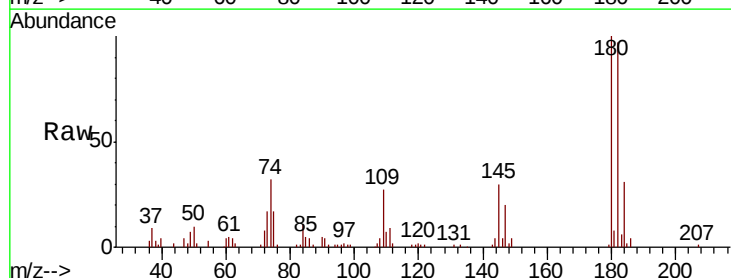


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

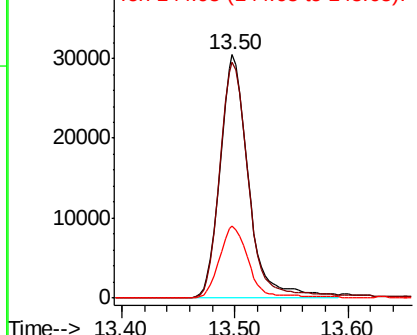
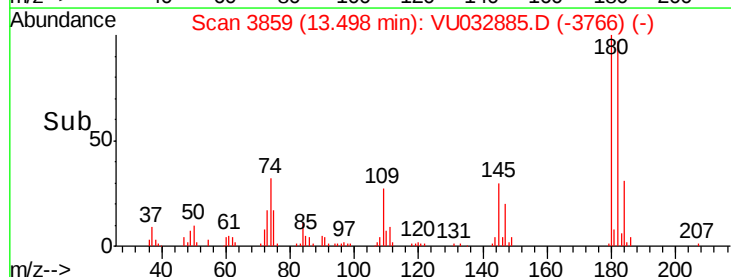


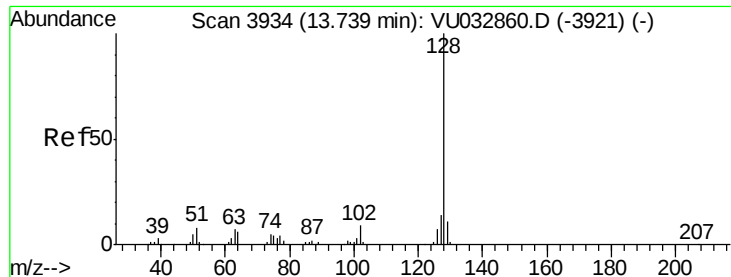
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.820 ug/L  
 RT: 13.50 min Scan# 3859  
 Delta R.T. -0.00 min  
 Lab File: VU032885.D  
 Acq: 20 Jun 2019 02:31

Tgt Ion:180 Resp: 53345  
 Ion Ratio Lower Upper  
 180 100  
 182 99.2 74.8 112.2  
 145 29.3 24.3 36.5



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: 4.608 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD00530

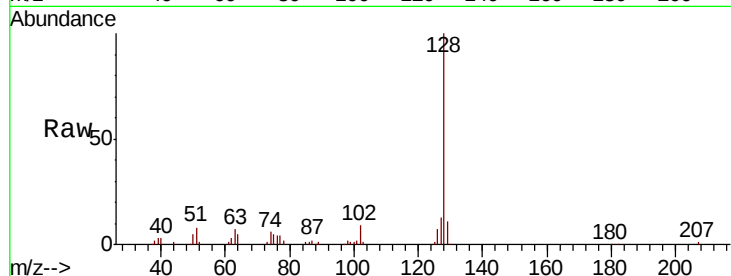
Tgt Ion:128 Resp: 89398

Ion Ratio Lower Upper

128 100

129 9.8 8.1 12.1

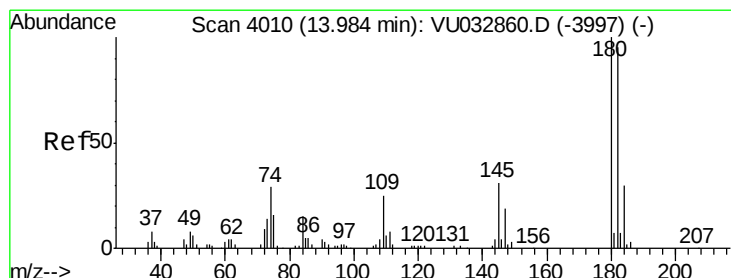
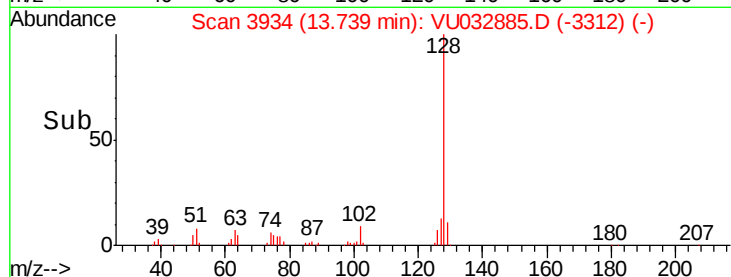
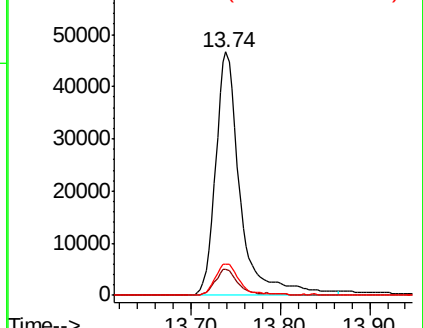
127 12.7 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.658 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032885.D

Acq: 20 Jun 2019 02:31

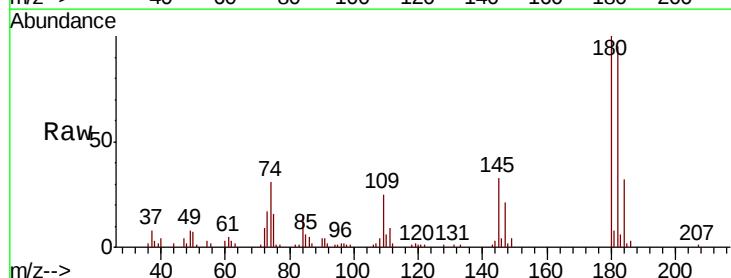
Tgt Ion:180 Resp: 51342

Ion Ratio Lower Upper

180 100

182 95.0 73.8 110.6

145 31.0 25.3 37.9



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

