

Data File : VU035300.D  
Acq On : 19 Oct 2019 07:15  
Operator : JC/SP  
Sample : VSTD01035  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01035

Quant Time: Oct 21 04:48:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM101919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Oct 21 04:45:11 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.30  | 114  | 694865   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 669460   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 257704   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.62  | 65  | 57027  | 9.50  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.94  | 69  | 48872  | 9.64  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.60  | 63  | 94791  | 9.60  | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.70  | 46  | 71118  | 18.10 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.12  | 84  | 92416  | 9.35  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.75  | 65  | 61526  | 9.78  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.77  | 84  | 192507 | 9.82  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.74  | 67  | 60222  | 9.72  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 174831 | 9.41  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.22  | 79  | 29402  | 9.06  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.69  | 63  | 48114  | 17.93 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79 | 84  | 86158  | 9.56  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.22 | 152 | 55693  | 9.95  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 52986  | 9.458 ug/L  | 98     |
| 3) Chloromethane               | 1.54 | 50  | 58270  | 10.297 ug/L | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 58106  | 9.905 ug/L  | 95     |
| 6) Bromomethane                | 1.88 | 94  | 34597  | 10.114 ug/L | 98     |
| 8) Chloroethane                | 1.95 | 64  | 36158  | 10.018 ug/L | 100    |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 73545  | 9.887 ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 42314  | 9.607 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 41628  | 9.890 ug/L  | 92     |
| 13) Acetone                    | 2.67 | 43  | 70931  | 19.860 ug/L | 99     |
| 14) Carbon disulfide           | 2.83 | 76  | 127056 | 9.862 ug/L  | 99     |
| 15) Methyl Acetate             | 3.00 | 43  | 49753  | 9.699 ug/L  | 100    |
| 16) Methylene chloride         | 3.09 | 84  | 49840  | 10.000 ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 3.40 | 96  | 44753  | 9.887 ug/L  | 96     |
| 18) Methyl tert-butyl Ether    | 3.42 | 73  | 140720 | 9.700 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.93 | 63  | 85436  | 9.829 ug/L  | 96     |
| 20) cis-1,2-Dichloroethene     | 4.72 | 96  | 49826  | 9.737 ug/L  | 96     |
| 22) 2-Butanone                 | 4.78 | 43  | 82069  | 19.082 ug/L | 97     |
| 23) Bromochloromethane         | 5.03 | 128 | 25244  | 9.813 ug/L  | 98     |
| 25) Chloroform                 | 5.14 | 83  | 89879  | 10.110 ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 67625  | 9.714 ug/L  | 98     |
| 29) Cyclohexane                | 5.43 | 56  | 70990  | 9.432 ug/L  | 99     |
| 30) 1,1,1-Trichloroethane      | 5.37 | 97  | 73900  | 10.051 ug/L | 98     |
| 31) Carbon tetrachloride       | 5.57 | 117 | 61679  | 9.578 ug/L  | 99     |
| 33) Benzene                    | 5.82 | 78  | 187955 | 9.825 ug/L  | 100    |
| 34) Trichloroethene            | 6.58 | 95  | 47753  | 9.747 ug/L  | 98     |
| 35) Methylcyclohexane          | 6.80 | 83  | 71140  | 9.442 ug/L  | 98     |
| 37) 1,2-Dichloropropane        | 6.84 | 63  | 48001  | 9.685 ug/L  | 99     |
| 38) Bromodichloromethane       | 7.15 | 83  | 63795  | 9.706 ug/L  | 99     |
| 39) cis-1,3-Dichloropropene    | 7.65 | 75  | 72004  | 8.982 ug/L  | 98     |
| 40) 4-Methyl-2-pentanone       | 7.84 | 43  | 139589 | 19.972 ug/L | 97     |

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MSVOA\_U  
ClientSampleId :  
VSTD01035

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM101919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Oct 21 04:45:11 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 8.01  | 91   | 203657   | 9.841  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 68737    | 9.199  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.44  | 97   | 48501    | 10.104 | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.58  | 164  | 37370    | 9.490  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.74  | 43   | 110425   | 19.066 | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.84  | 129  | 50928    | 9.395  | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 51001    | 9.576  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.48  | 112  | 131764   | 9.891  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.60  | 91   | 218853   | 9.569  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.73  | 106  | 80662    | 9.608  | ug/L  | 99       |
| 54) o-xylene                   | 10.13 | 106  | 79332    | 9.322  | ug/L  | 100      |
| 55) Styrene                    | 10.15 | 104  | 120951   | 8.557  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.51 | 105  | 204322   | 9.363  | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.82 | 83   | 81266    | 9.655  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 64984    | 9.881  | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 38427    | 10.806 | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene        | 11.78 | 146  | 80003    | 9.789  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.87 | 146  | 79493    | 9.917  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 83621    | 10.250 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.03 | 75   | 11669    | 9.018  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180  | 37526    | 8.114  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 17875    | 6.080  | ug/L  | 99       |
| 69) Naphthalene                | 14.11 | 128  | 41660    | 5.673  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 20464    | 6.595  | ug/L  | 97       |

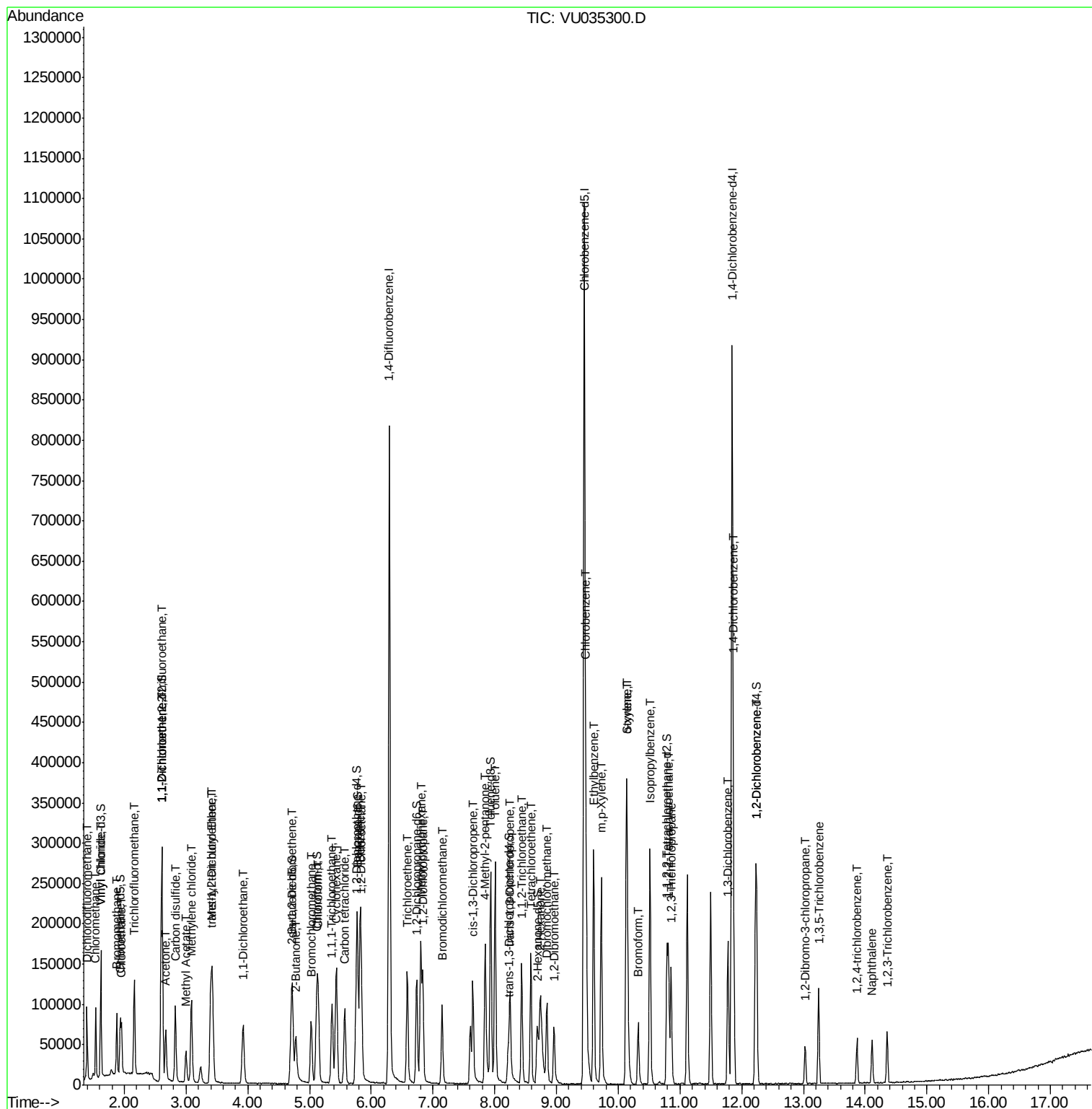
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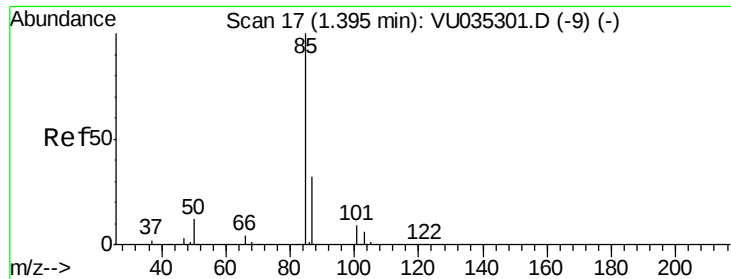
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**ClientSampleId :**  
VSTD01035

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Quant Title : VOC Analysis  
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#2

Dichlorodifluoromethane

Concen: 9.458 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

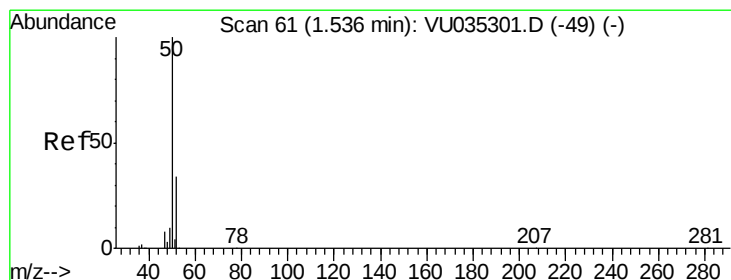
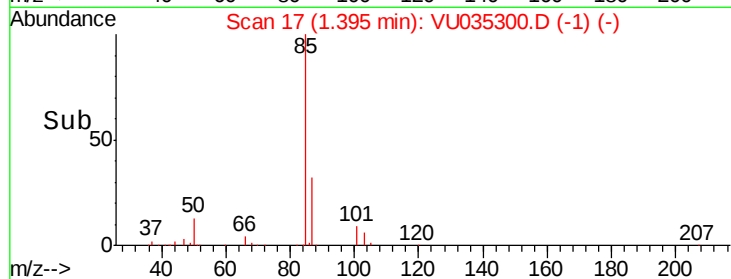
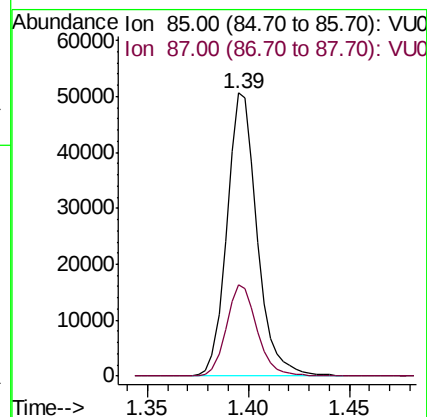
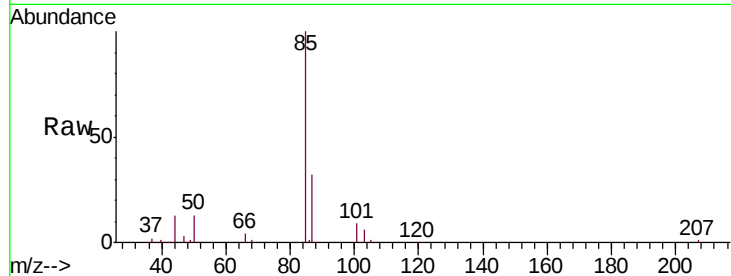
VSTD01035

Tgt Ion: 85 Resp: 52986

Ion Ratio Lower Upper

85 100

87 32.8 25.5 38.3



#3

Chloromethane

Concen: 10.297 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035300.D

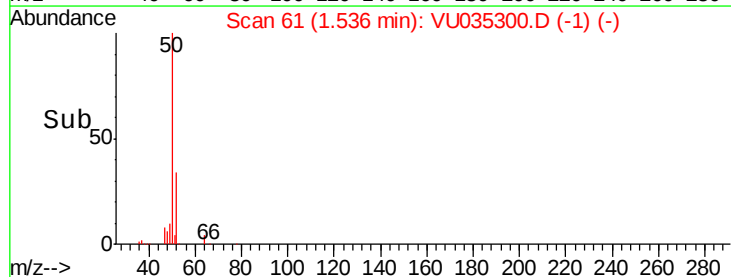
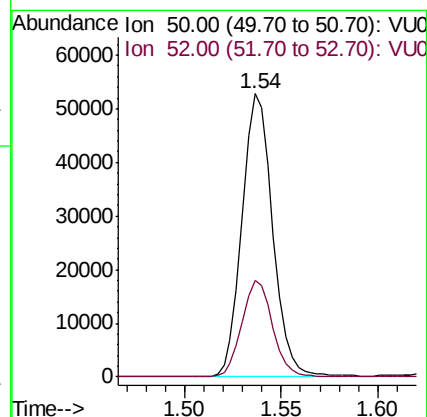
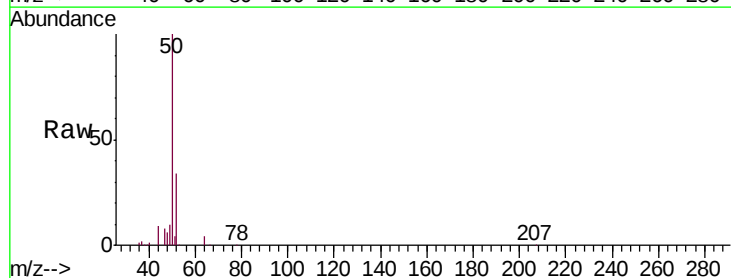
Acq: 19 Oct 2019 07:15

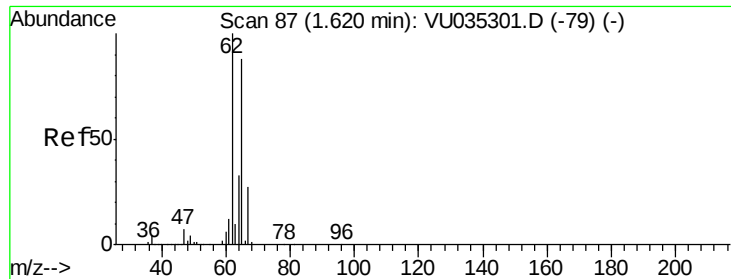
Tgt Ion: 50 Resp: 58270

Ion Ratio Lower Upper

50 100

52 33.9 23.6 43.8





#5

Vinyl chloride

Concen: 9.905 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

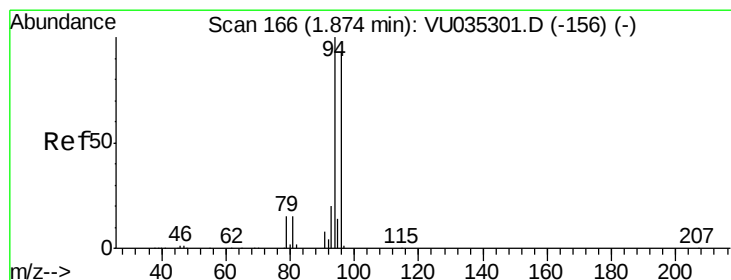
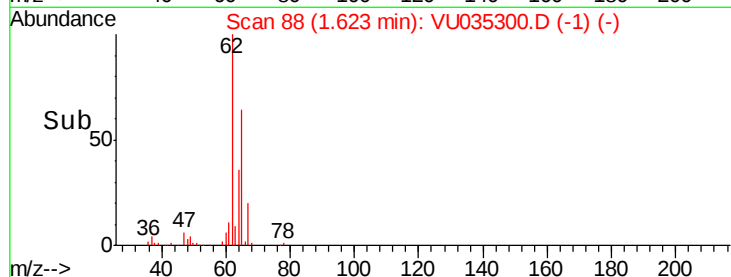
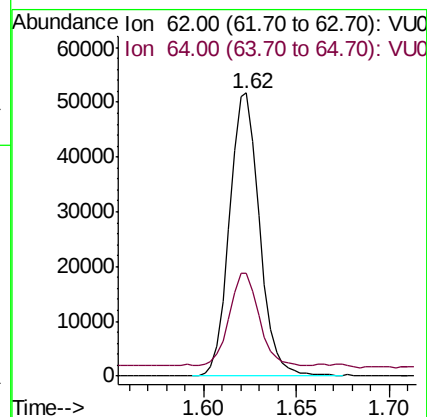
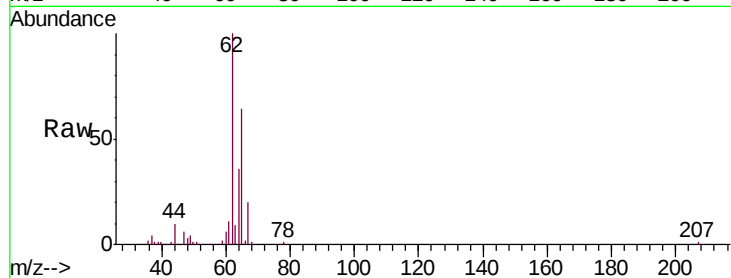
VSTD01035

Tgt Ion: 62 Resp: 58106

Ion Ratio Lower Upper

62 100

64 36.3 23.4 43.4



#6

Bromomethane

Concen: 10.114 ug/L

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035300.D

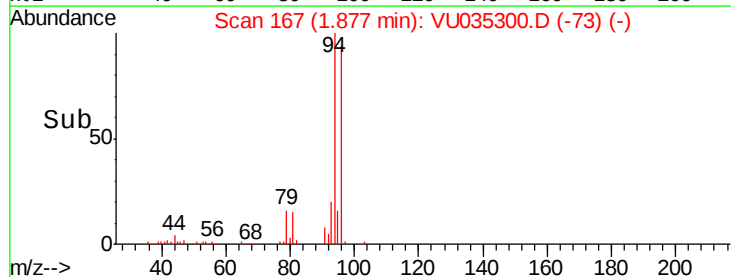
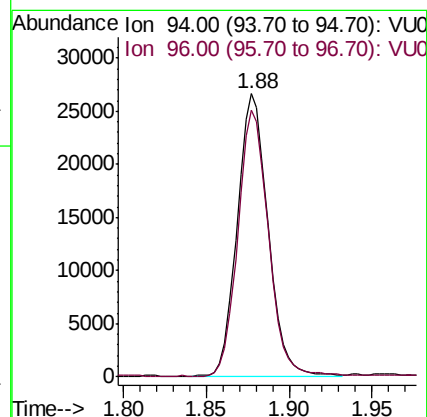
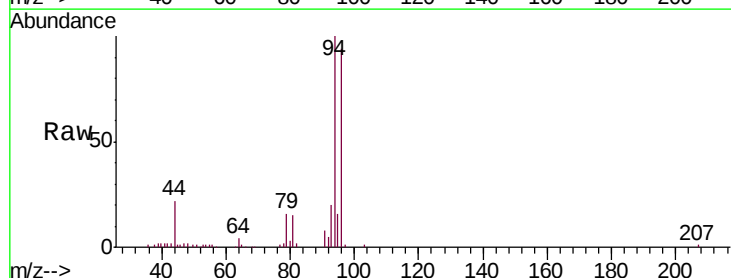
Acq: 19 Oct 2019 07:15

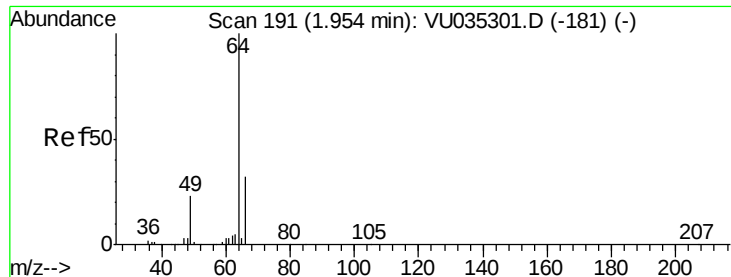
Tgt Ion: 94 Resp: 34597

Ion Ratio Lower Upper

94 100

96 94.4 65.0 120.8

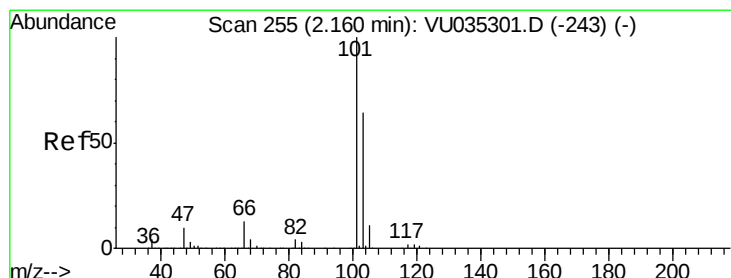
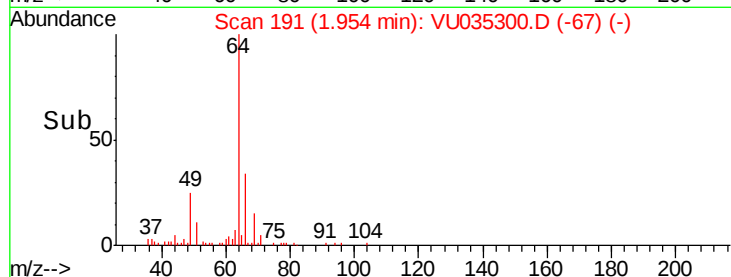
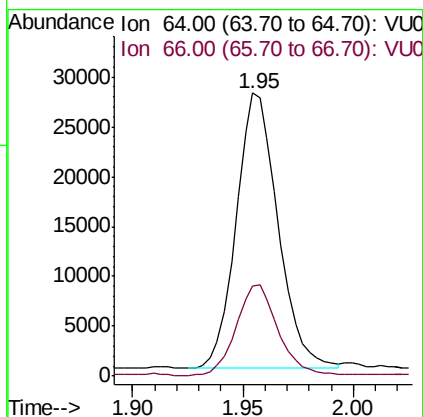
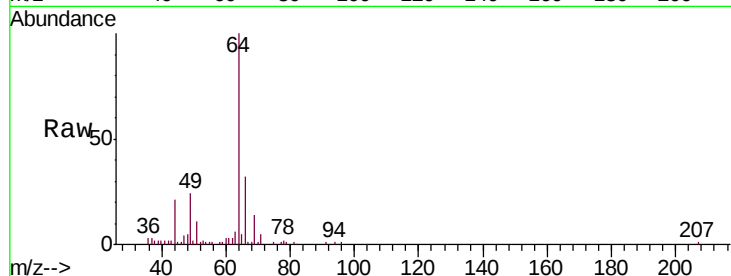




#8  
Chloroethane  
Concen: 10.018 ug/L  
RT: 1.95 min Scan# 191  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

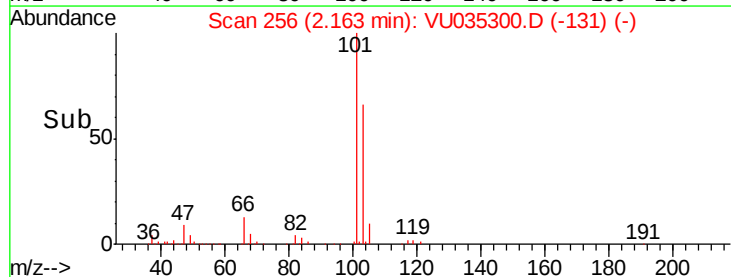
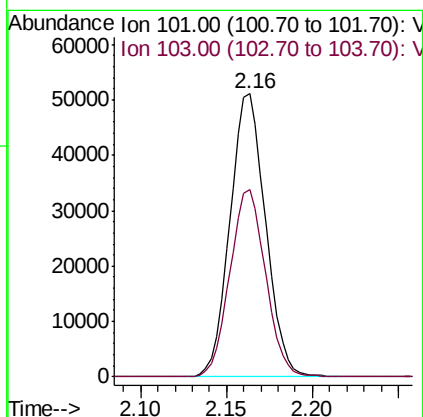
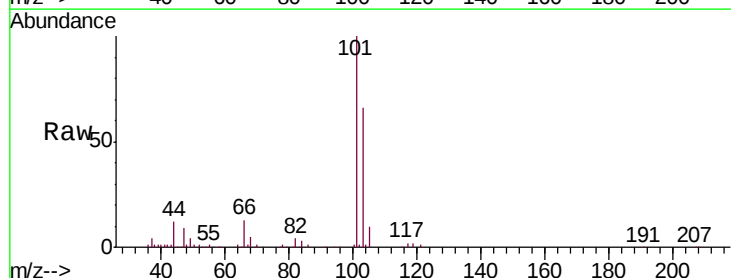
Instrument :  
MSVOA\_U  
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VSTD01035

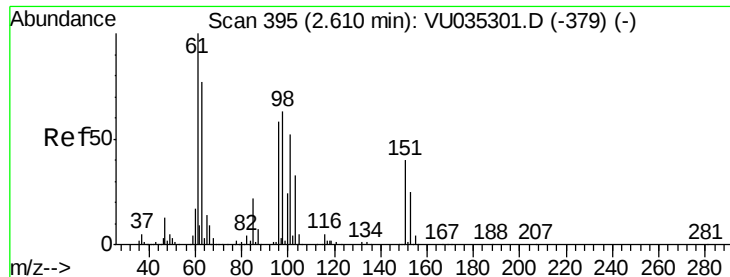
Tgt Ion: 64 Resp: 36158  
Ion Ratio Lower Upper  
64 100  
66 32.0 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 9.887 ug/L  
RT: 2.16 min Scan# 256  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Tgt Ion: 101 Resp: 73545  
Ion Ratio Lower Upper  
101 100  
103 66.6 51.4 77.0





#10

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

Concen: 9.607 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

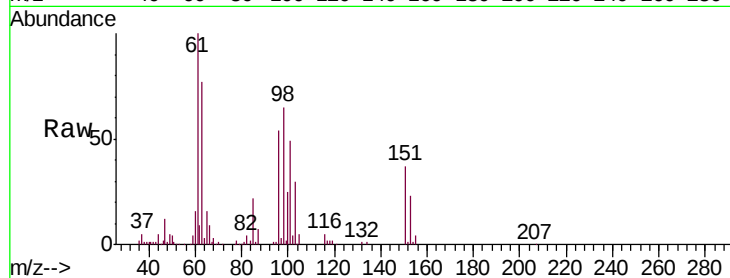
Tgt Ion: 101 Resp: 42314

Ion Ratio Lower Upper

101 100

85 42.4 33.7 50.5

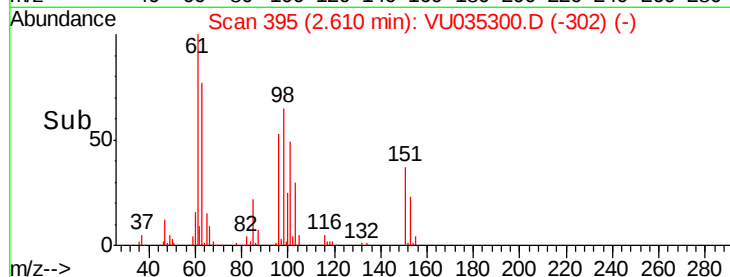
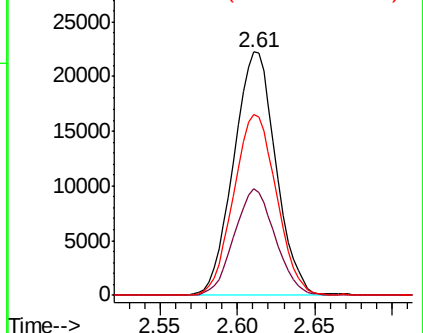
151 75.0 60.3 90.5



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: 9.890 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

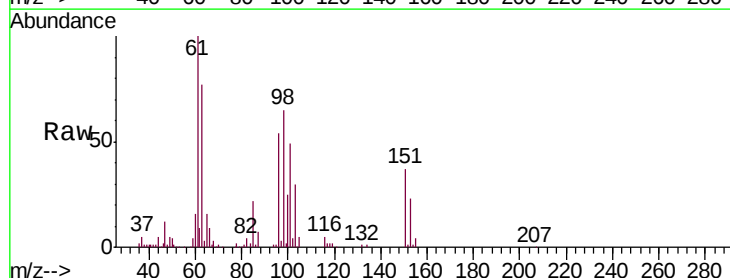
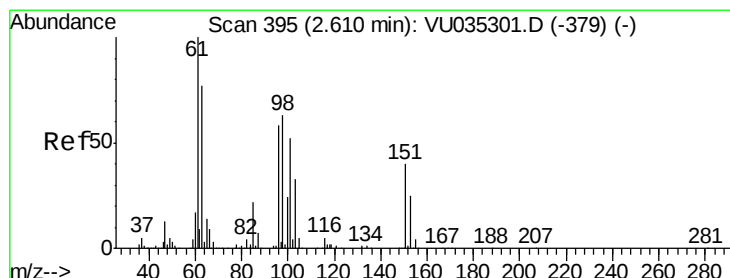
Tgt Ion: 96 Resp: 41628

Ion Ratio Lower Upper

96 100

61 185.4 121.1 224.9

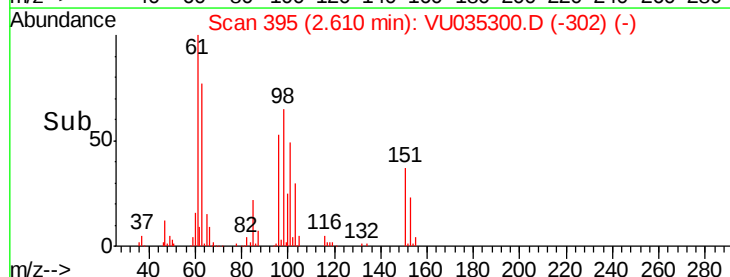
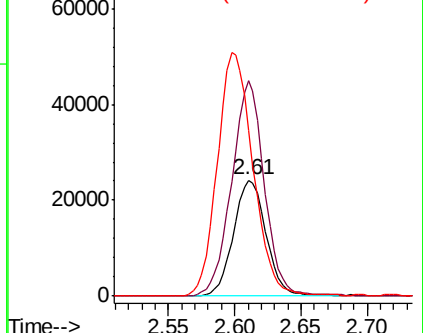
63 142.9 93.9 174.3

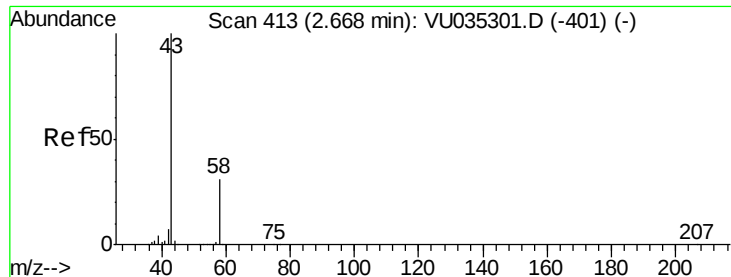


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 19.860 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

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Instrument :

MSVOA\_U

ClientSampleId :

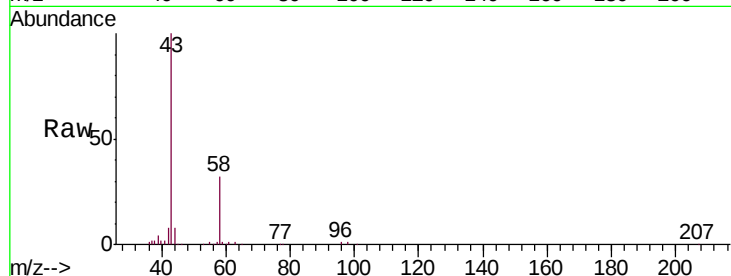
VSTD01035

Tgt Ion: 43 Resp: 70931

Ion Ratio Lower Upper

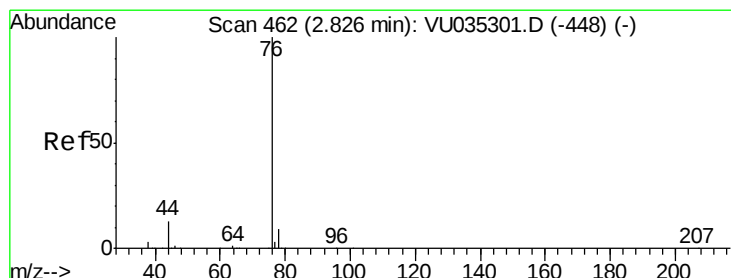
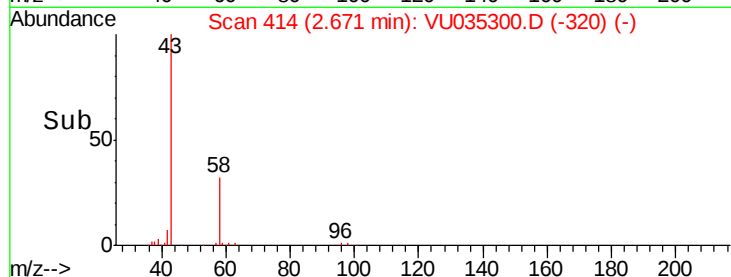
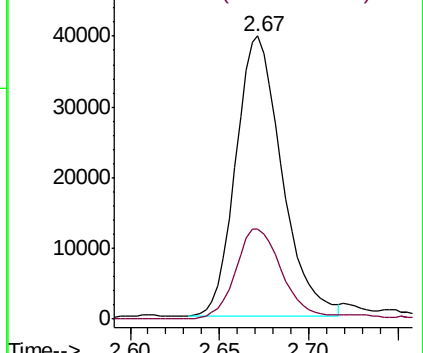
43 100

58 32.1 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU035300.D (-320) (-)

Ion 58.00 (57.70 to 58.70): VU035300.D (-320) (-)



#14

Carbon disulfide

Concen: 9.862 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035300.D

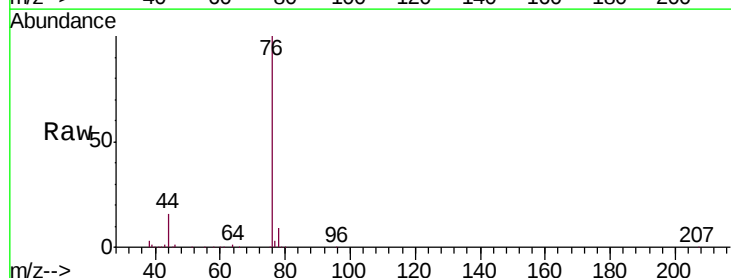
Acq: 19 Oct 2019 07:15

Tgt Ion: 76 Resp: 127056

Ion Ratio Lower Upper

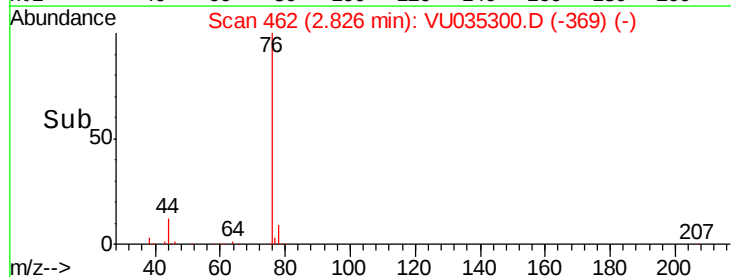
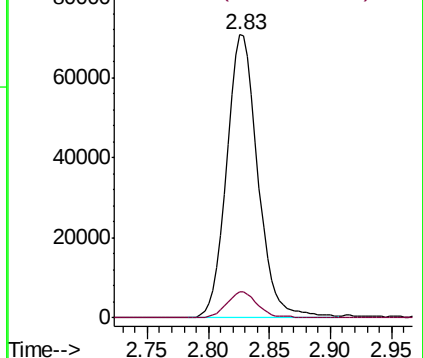
76 100

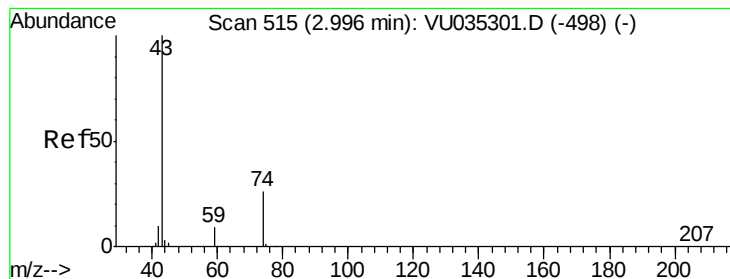
78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU035300.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VU035300.D (-369) (-)





#15

Methyl Acetate

Concen: 9.699 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

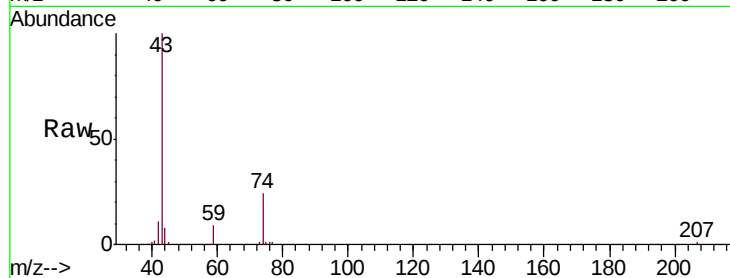
VSTD01035

Tgt Ion: 43 Resp: 49753

Ion Ratio Lower Upper

43 100

74 25.6 20.3 30.5



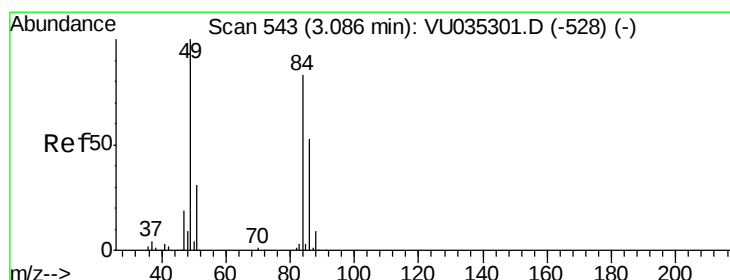
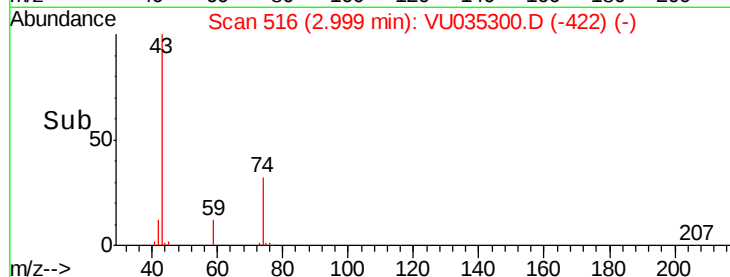
Abundance Ion 43.00 (42.70 to 43.70): VU035300.D (-422) (-)

Ion 74.00 (73.70 to 74.70): VU035300.D (-422) (-)

3.00

2.95 3.00 3.05

Time-->



#16

Methylene chloride

Concen: 10.000 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

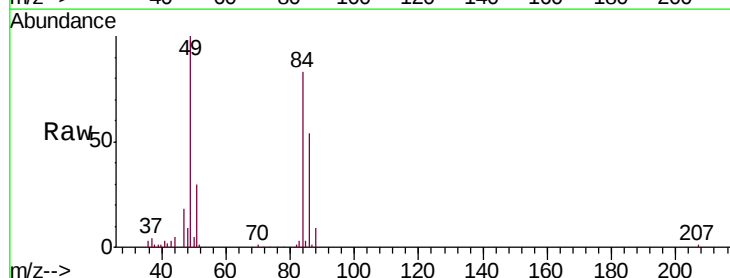
Tgt Ion: 84 Resp: 49840

Ion Ratio Lower Upper

84 100

86 65.9 44.4 82.5

49 121.0 84.0 156.0



Abundance Ion 84.00 (83.70 to 84.70): VU035300.D (-450) (-)

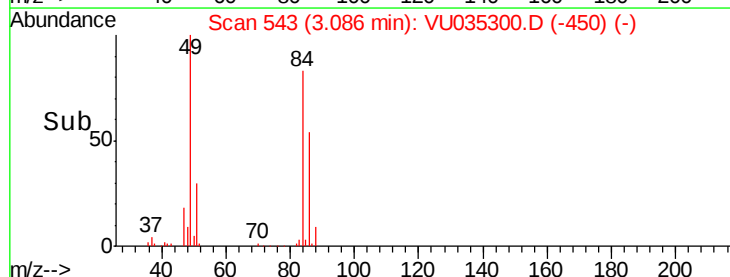
Ion 86.00 (85.70 to 86.70): VU035300.D (-450) (-)

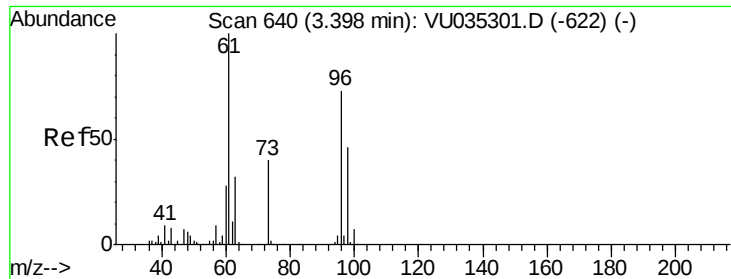
Ion 49.00 (48.70 to 49.70): VU035300.D (-450) (-)

3.09

3.00 3.05 3.10 3.15

Time-->





#17

trans-1,2-Dichloroethene

Concen: 9.887 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

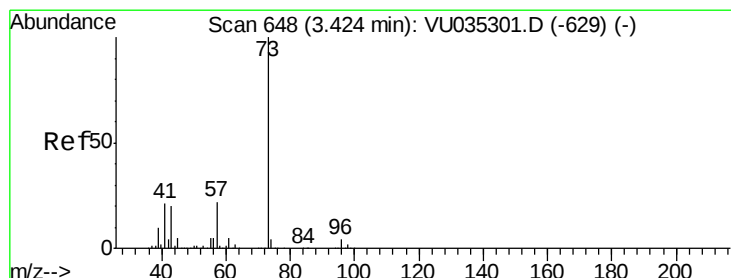
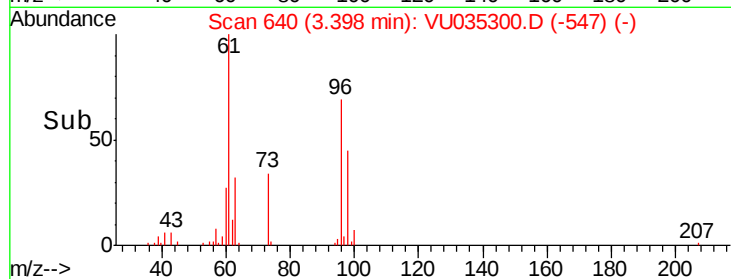
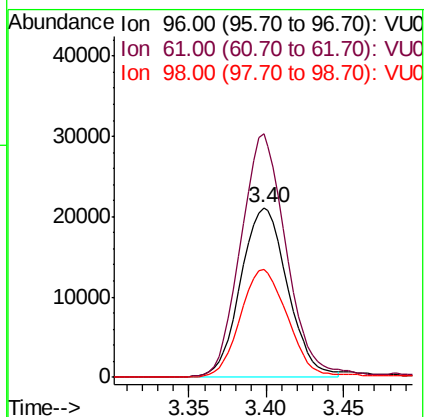
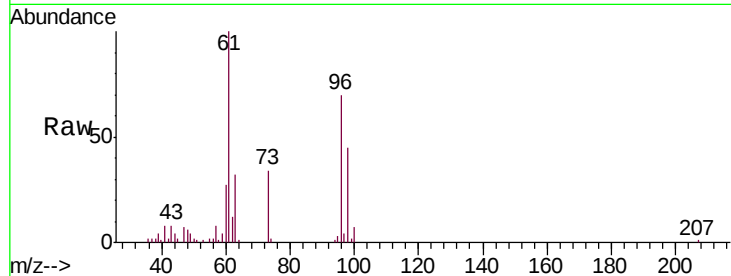
Tgt Ion: 96 Resp: 44753

Ion Ratio Lower Upper

96 100

61 143.3 95.8 178.0

98 63.8 44.4 82.4



#18

Methyl tert-butyl Ether

Concen: 9.700 ug/L

RT: 3.42 min Scan# 648

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

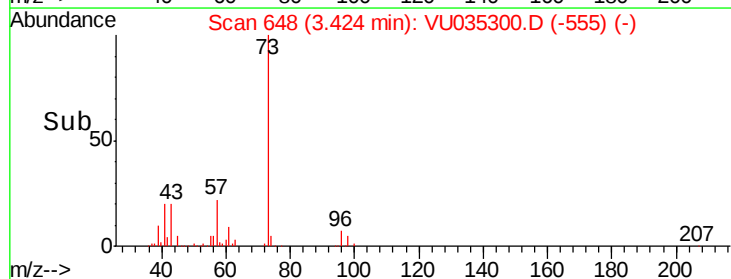
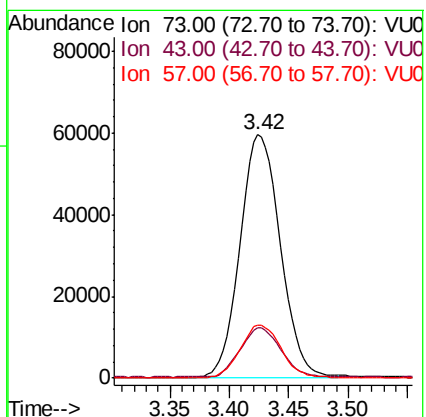
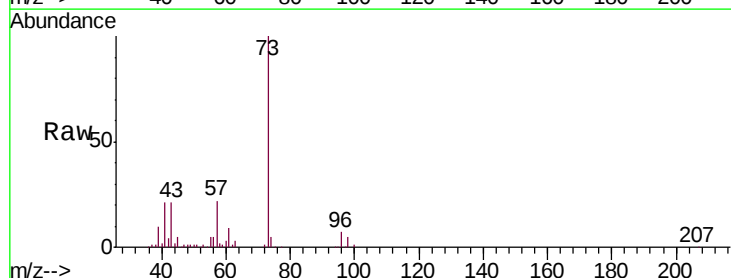
Tgt Ion: 73 Resp: 140720

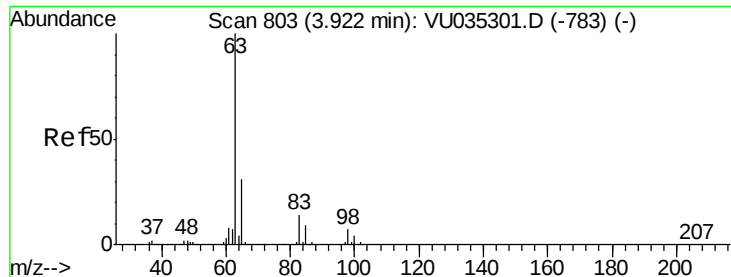
Ion Ratio Lower Upper

73 100

43 20.2 16.0 24.0

57 22.1 17.6 26.4





#19

1,1-Dichloroethane

Concen: 9.829 ug/L

RT: 3.93 min Scan# 804

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

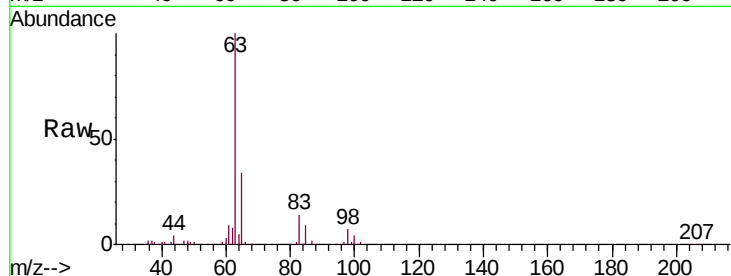
Tgt Ion: 63 Resp: 85436

Ion Ratio Lower Upper

63 100

65 34.1 21.6 40.0

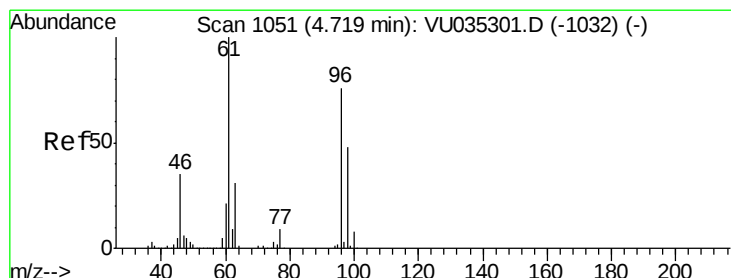
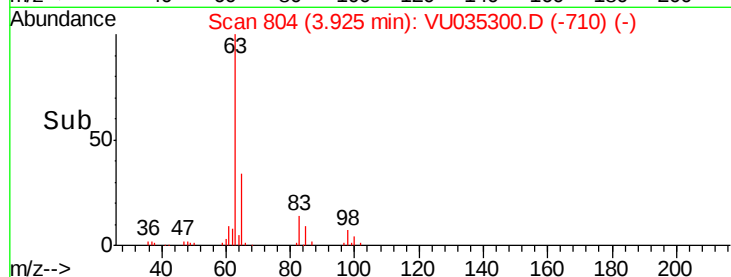
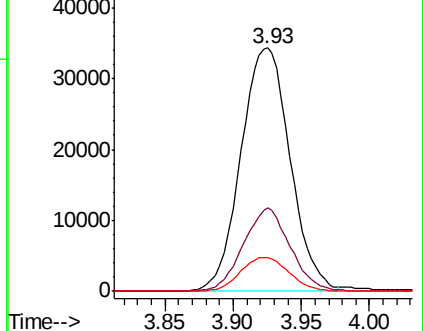
83 13.6 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU035300.D (-710) (-)

Ion 65.00 (64.70 to 65.70): VU035300.D (-710) (-)

Ion 83.00 (82.70 to 83.70): VU035300.D (-710) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.737 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

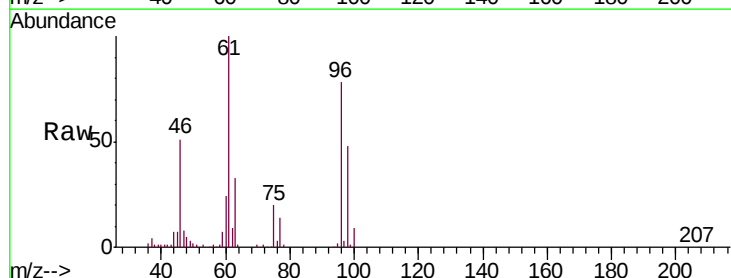
Tgt Ion: 96 Resp: 49826

Ion Ratio Lower Upper

96 100

61 127.5 92.7 172.3

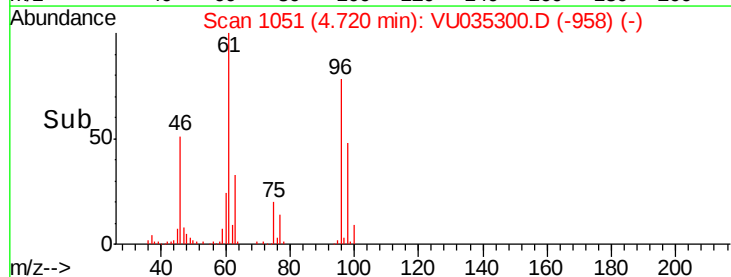
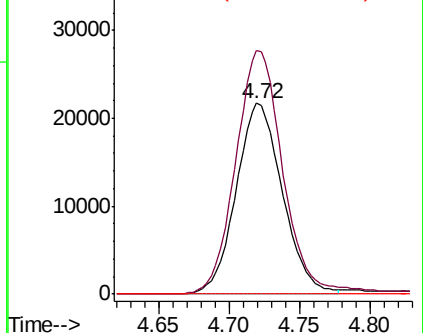
68 0.0 0.0 0.0

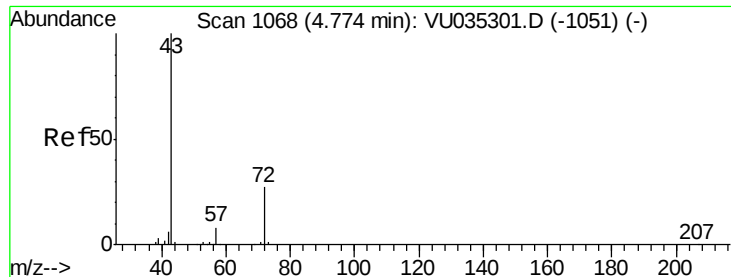


Abundance Ion 96.00 (95.70 to 96.70): VU035300.D (-958) (-)

Ion 61.00 (60.70 to 61.70): VU035300.D (-958) (-)

Ion 68.00 (67.70 to 68.70): VU035300.D (-958) (-)





#22

2-Butanone

Concen: 19.082 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

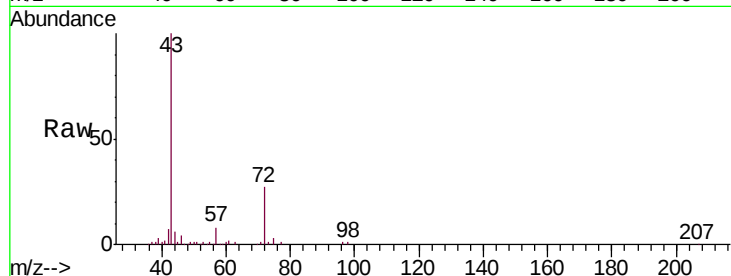
VSTD01035

Tgt Ion: 43 Resp: 82069

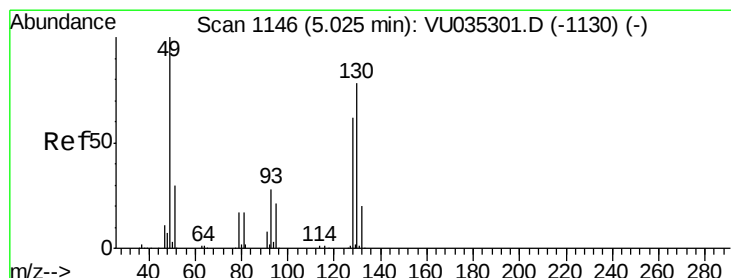
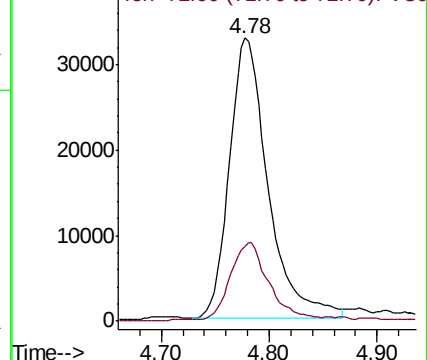
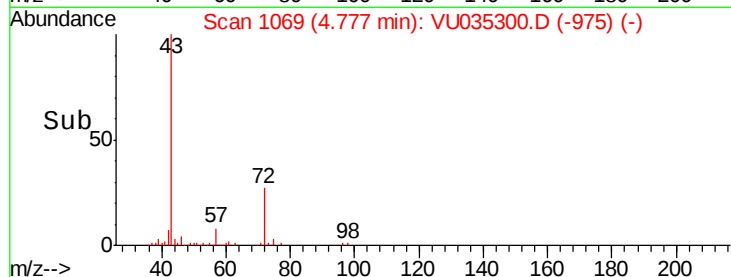
Ion Ratio Lower Upper

43 100

72 27.4 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU035300.D (-975) (-)



#23

Bromochloromethane

Concen: 9.813 ug/L

RT: 5.03 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Tgt Ion: 128 Resp: 25244

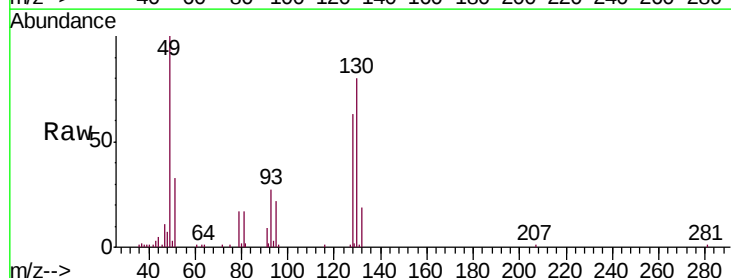
Ion Ratio Lower Upper

128 100

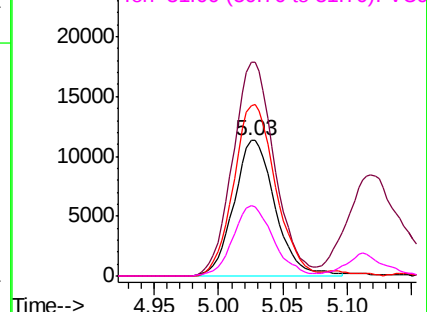
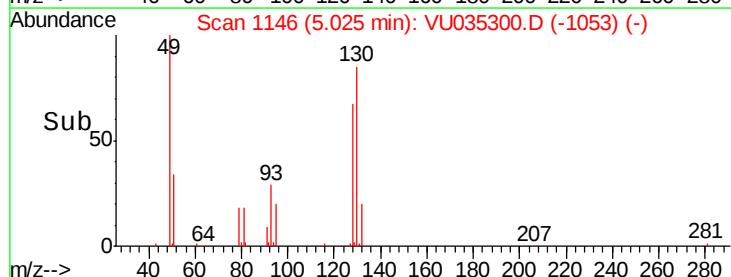
49 157.6 112.7 209.3

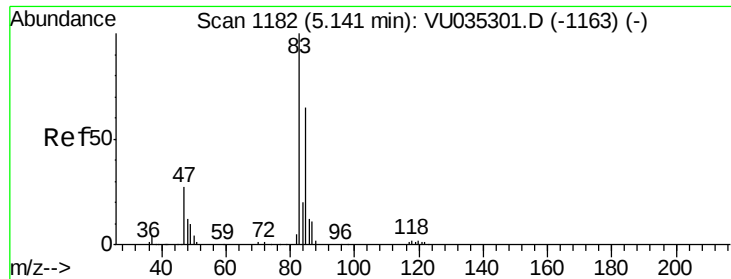
130 126.0 87.8 163.0

51 52.3 39.0 58.4



Abundance Ion 128.00 (127.70 to 128.70): VU035300.D (-1053) (-)

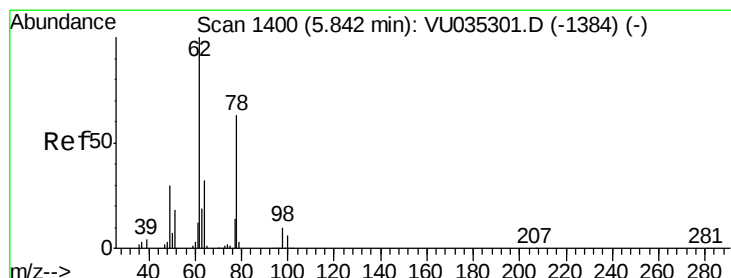
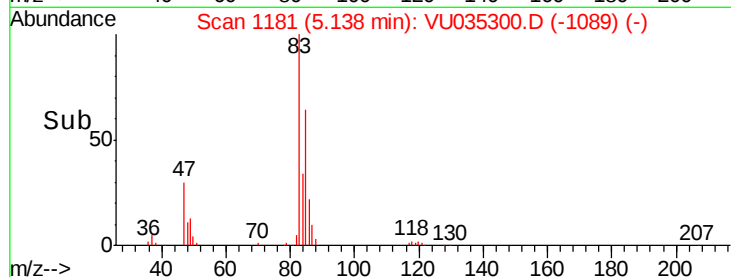
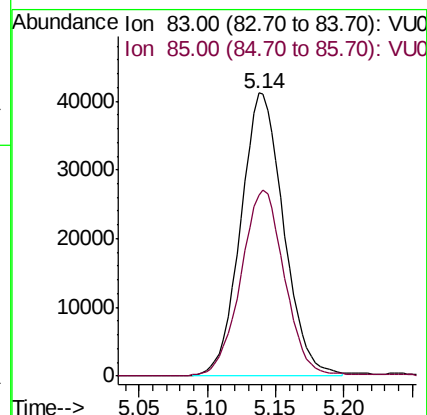
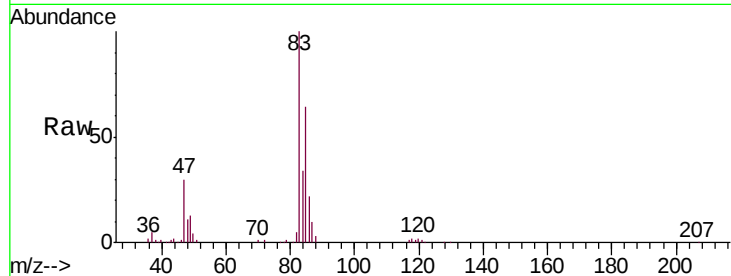




#25  
Chloroform  
Concen: 10.110 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

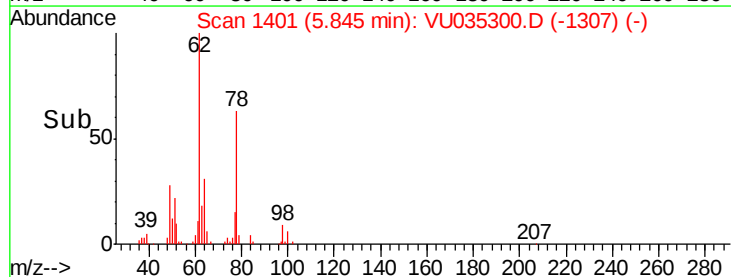
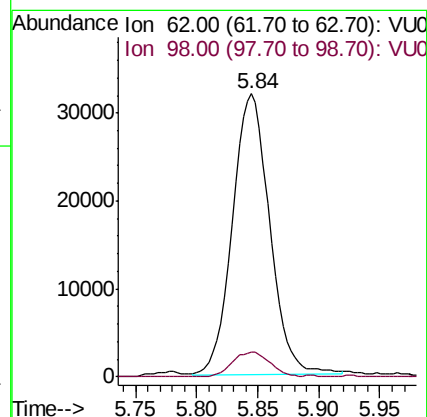
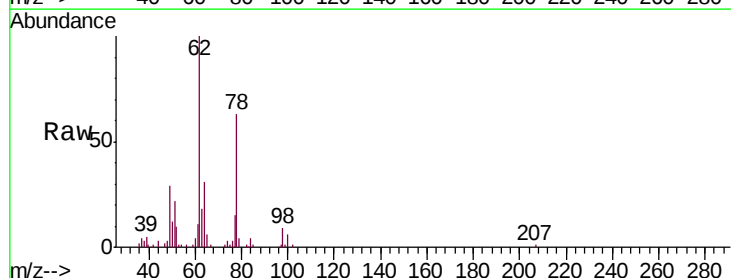
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01035

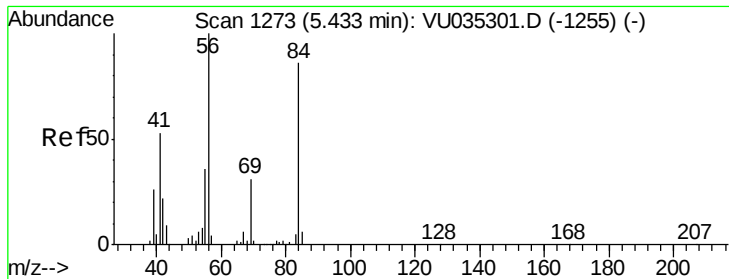
Tgt Ion: 83 Resp: 89879  
Ion Ratio Lower Upper  
83 100  
85 64.1 45.5 84.5



#27  
1,2-Dichloroethane  
Concen: 9.714 ug/L  
RT: 5.84 min Scan# 1401  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Tgt Ion: 62 Resp: 67625  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.8 11.6

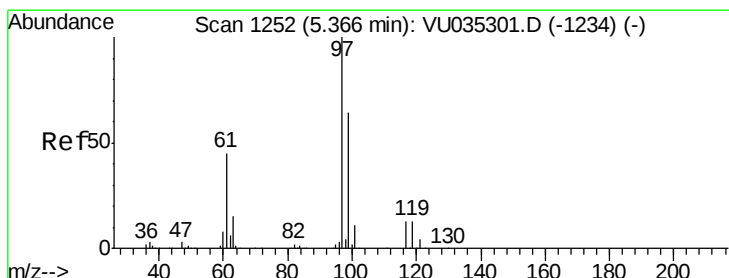
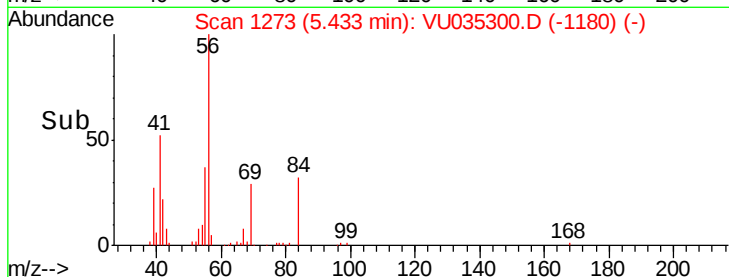
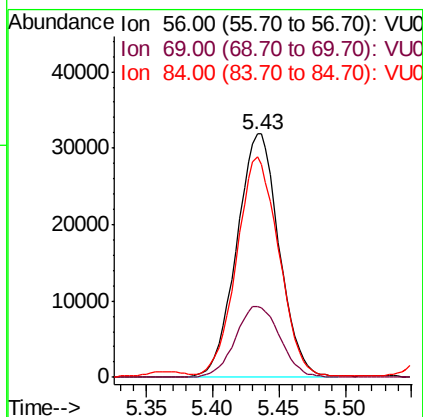
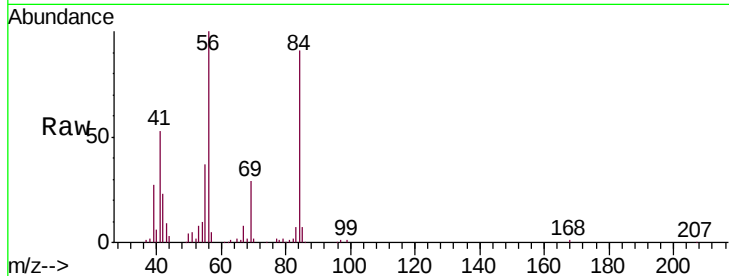




#29  
Cyclohexane  
Concen: 9.432 ug/L  
RT: 5.43 min Scan# 1273  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

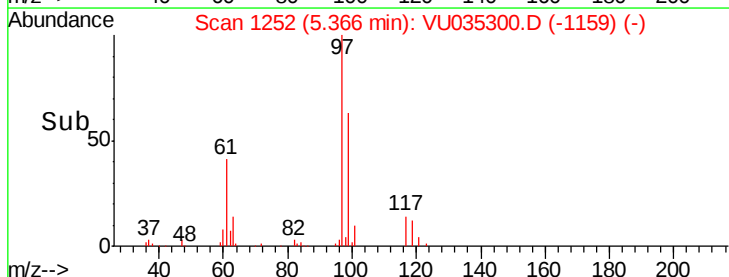
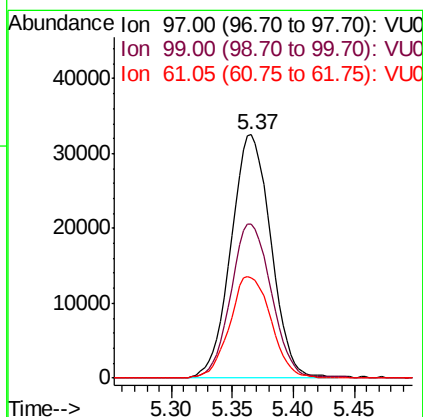
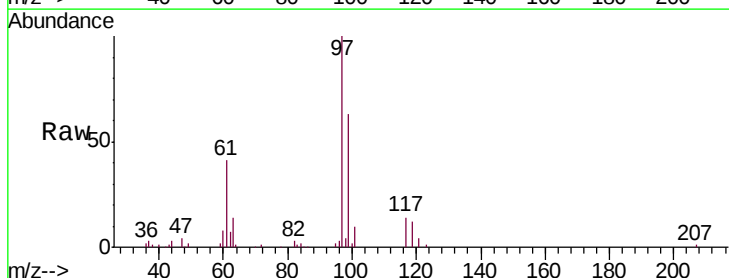
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01035

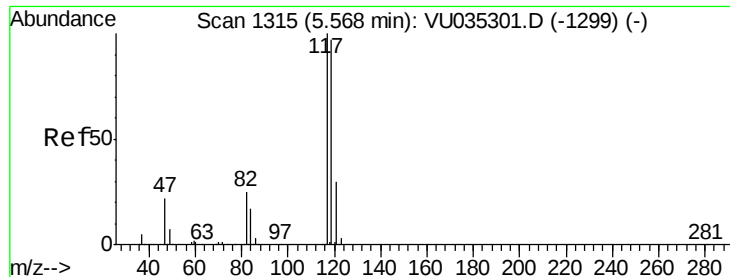
Tgt Ion: 56 Resp: 70990  
Ion Ratio Lower Upper  
56 100  
69 30.6 24.2 36.4  
84 89.9 71.1 106.7



#30  
1,1,1-Trichloroethane  
Concen: 10.051 ug/L  
RT: 5.37 min Scan# 1252  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Tgt Ion: 97 Resp: 73900  
Ion Ratio Lower Upper  
97 100  
99 64.6 51.3 76.9  
61 43.2 36.6 54.8





#31

Carbon tetrachloride

Concen: 9.578 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

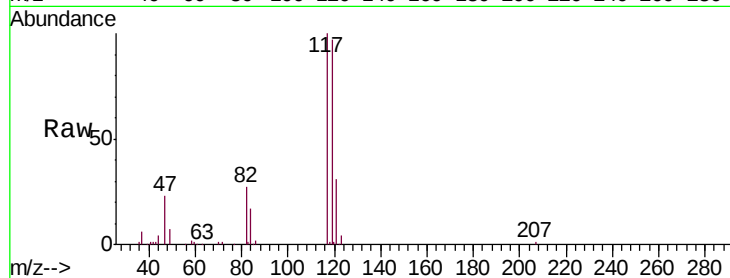
VSTD01035

Tgt Ion:117 Resp: 61679

Ion Ratio Lower Upper

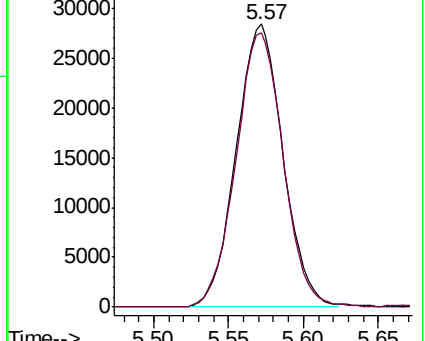
117 100

119 97.9 77.7 116.5

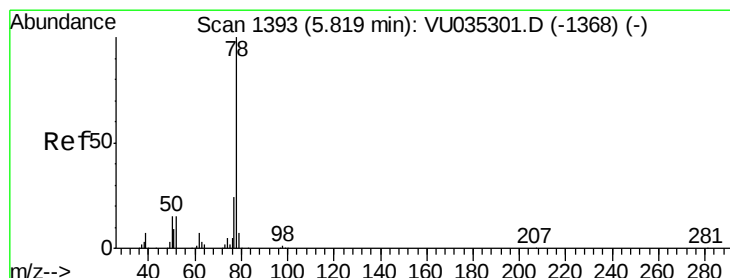
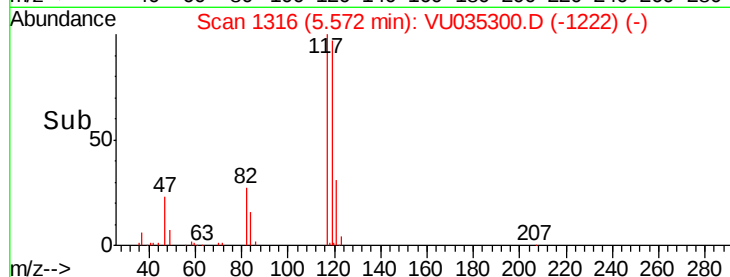


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#33

Benzene

Concen: 9.825 ug/L

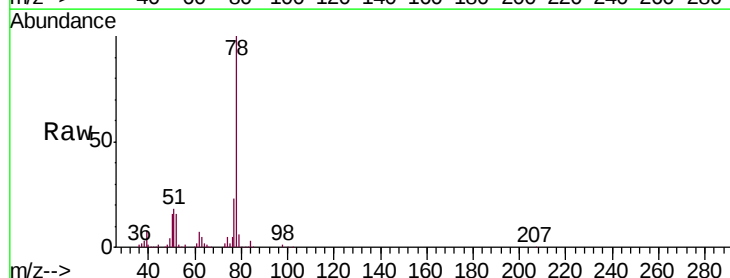
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

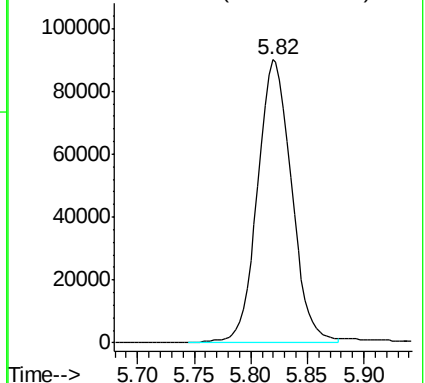
Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

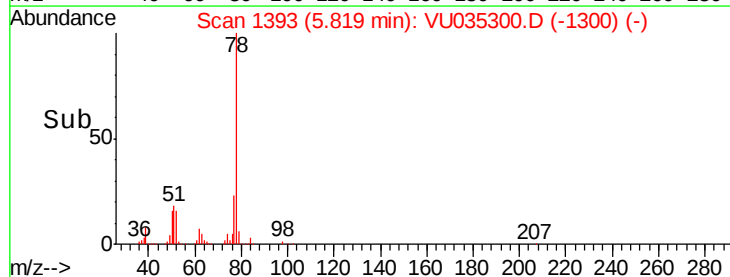
Tgt Ion: 78 Resp: 187955

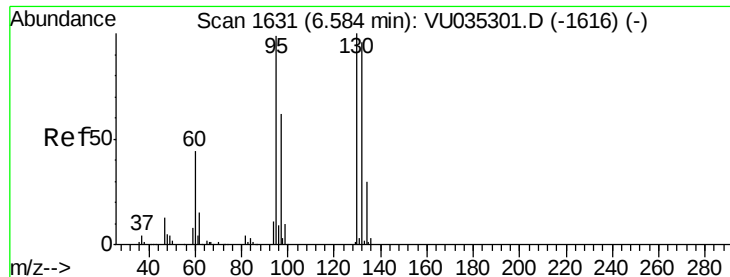


Abundance Ion 78.00 (77.70 to 78.70): VU0



Time-->





#34

Trichloroethene

Concen: 9.747 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

Tgt Ion: 95 Resp: 47753

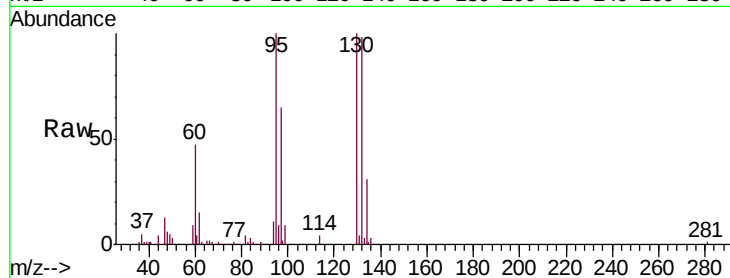
Ion Ratio Lower Upper

95 100

97 65.0 44.2 82.2

132 98.4 67.8 125.8

130 99.9 70.9 131.7

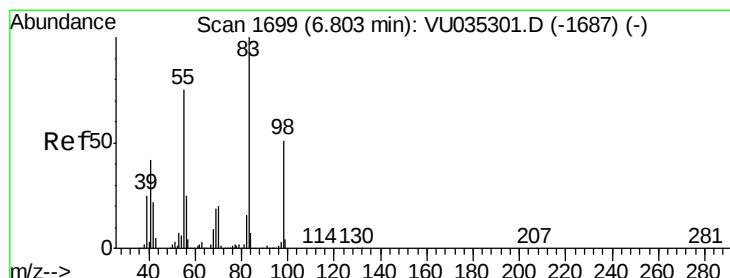
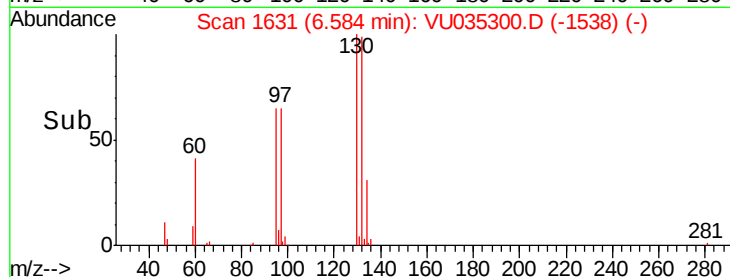
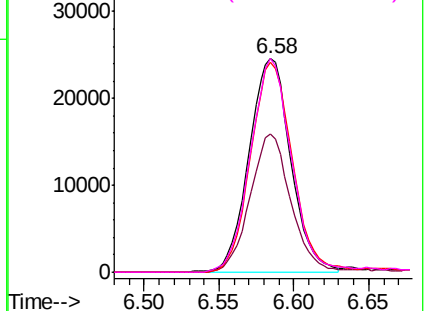


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 9.442 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

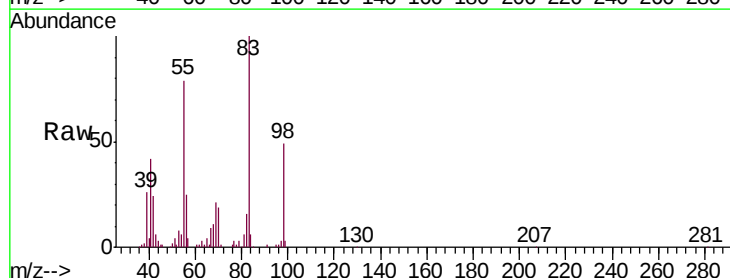
Tgt Ion: 83 Resp: 71140

Ion Ratio Lower Upper

83 100

55 76.1 59.5 89.3

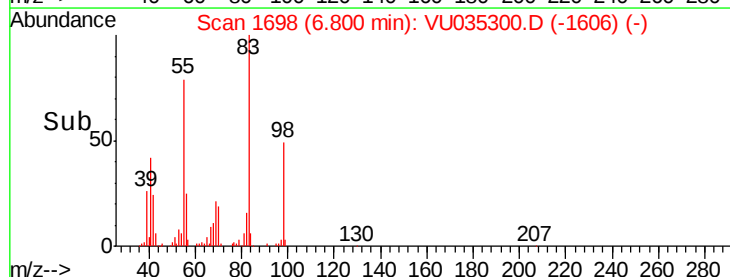
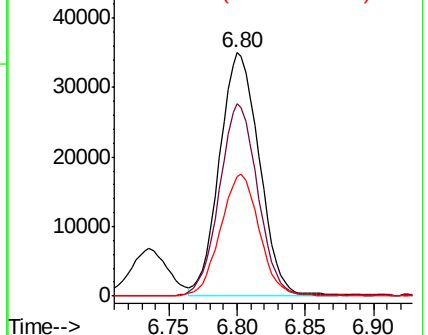
98 48.5 39.9 59.9

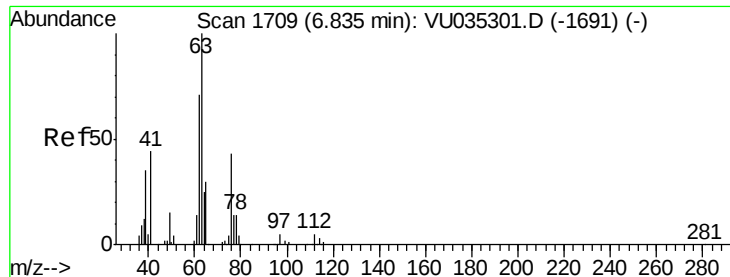


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

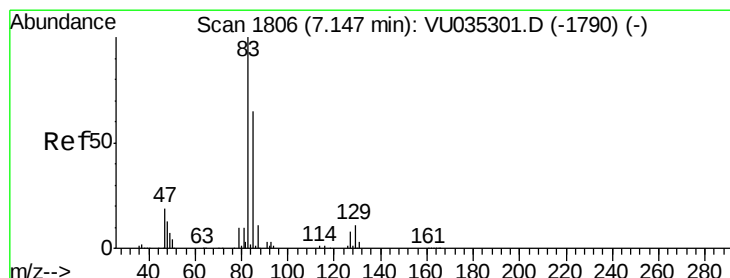
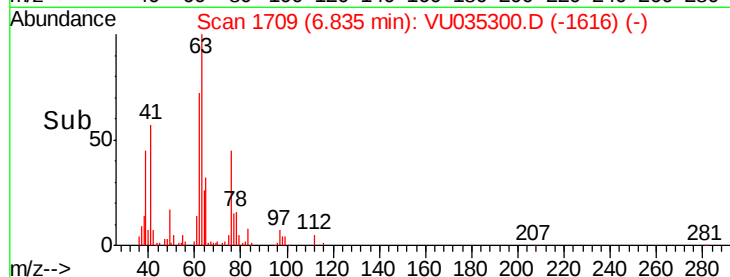
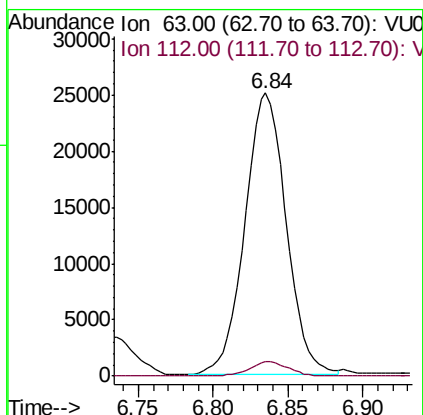
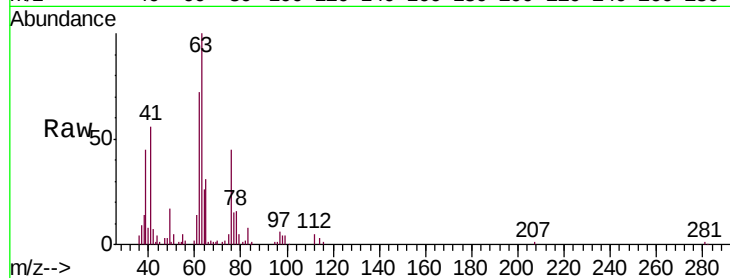




#37  
 1,2-Dichloropropane  
 Concen: 9.685 ug/L  
 RT: 6.84 min Scan# 1709  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

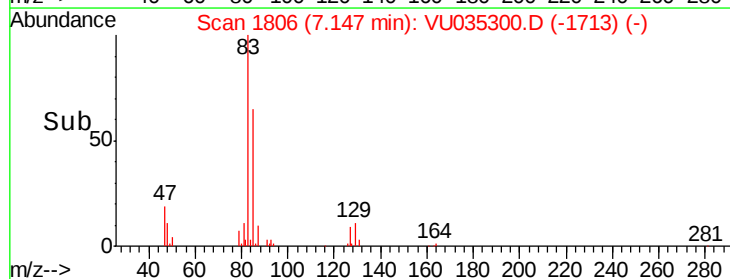
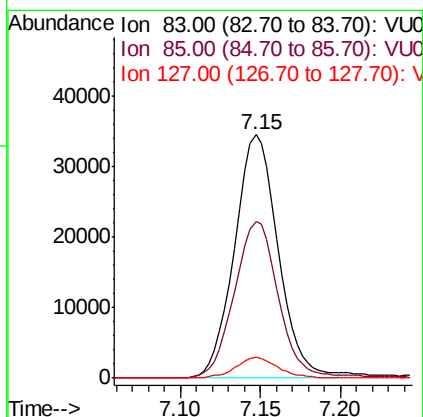
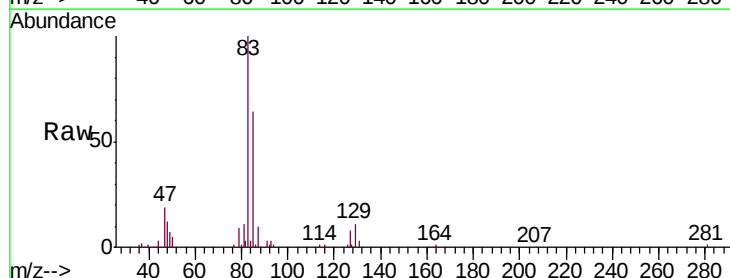
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

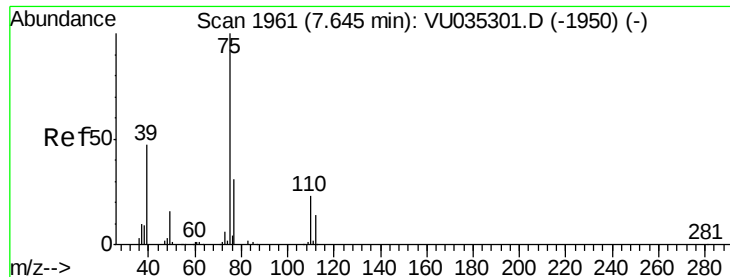
Tgt Ion: 63 Resp: 48001  
 Ion Ratio Lower Upper  
 63 100  
 112 4.7 3.6 5.4



#38  
 Bromodichloromethane  
 Concen: 9.706 ug/L  
 RT: 7.15 min Scan# 1806  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

Tgt Ion: 83 Resp: 63795  
 Ion Ratio Lower Upper  
 83 100  
 85 64.4 45.3 84.1  
 127 9.5 6.6 10.0

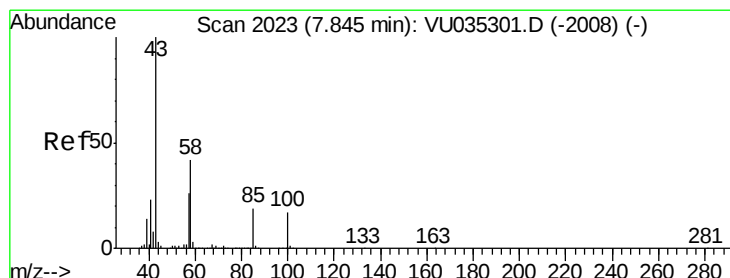
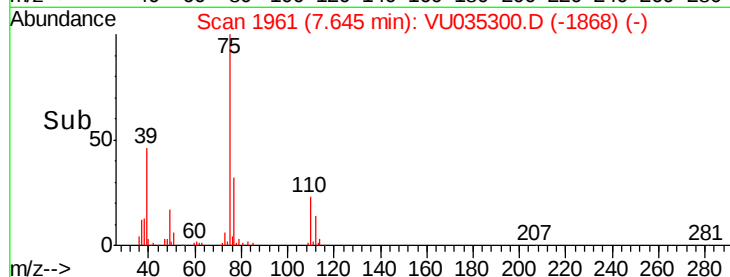
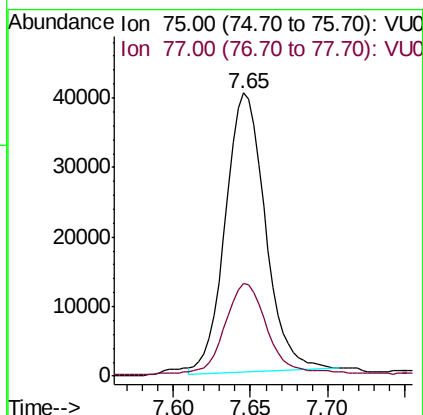
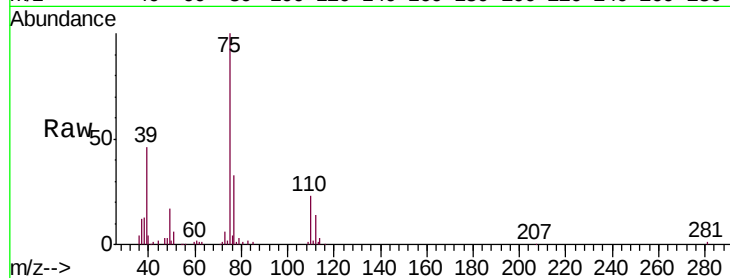




#39  
 cis-1,3-Dichloropropene  
 Concen: 8.982 ug/L  
 RT: 7.65 min Scan# 1961  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

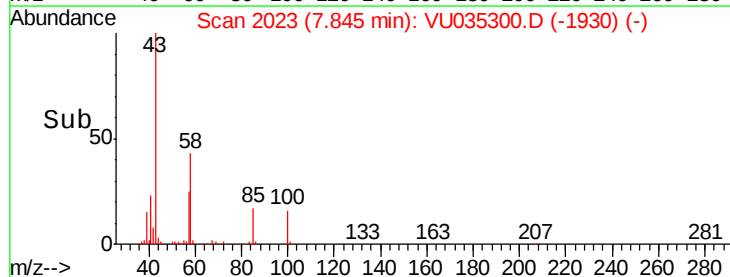
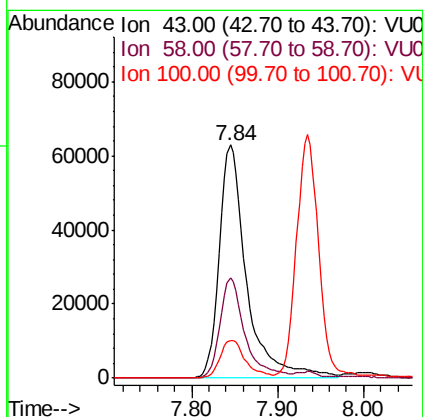
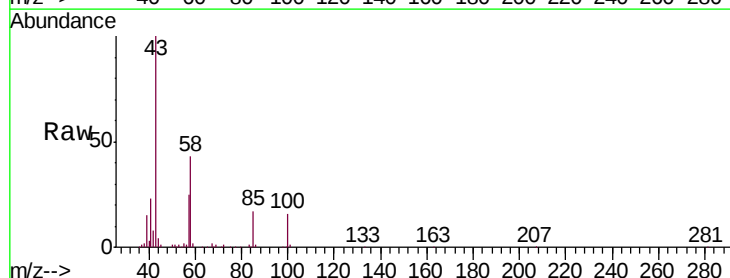
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

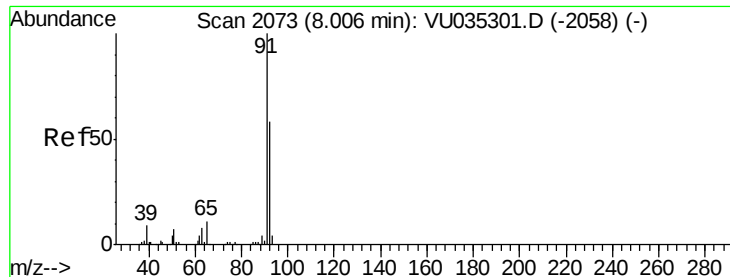
Tgt Ion: 75 Resp: 72004  
 Ion Ratio Lower Upper  
 75 100  
 77 32.8 22.3 41.5



#40  
 4-Methyl-2-pentanone  
 Concen: 19.972 ug/L  
 RT: 7.84 min Scan# 2023  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

Tgt Ion: 43 Resp: 139589  
 Ion Ratio Lower Upper  
 43 100  
 58 39.3 33.1 49.7  
 100 15.3 13.2 19.8





#42

Toluene

Concen: 9.841 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

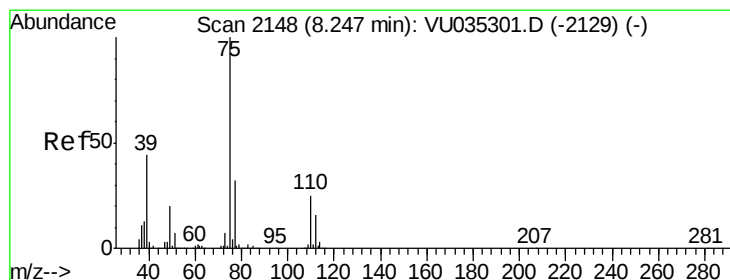
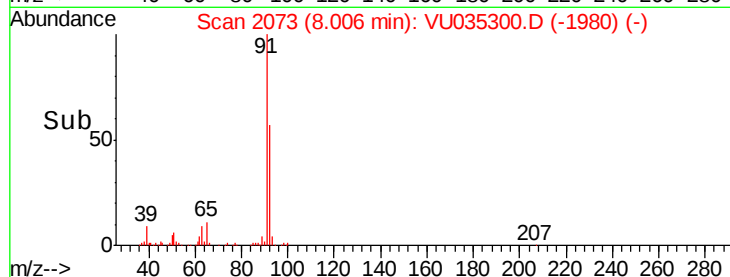
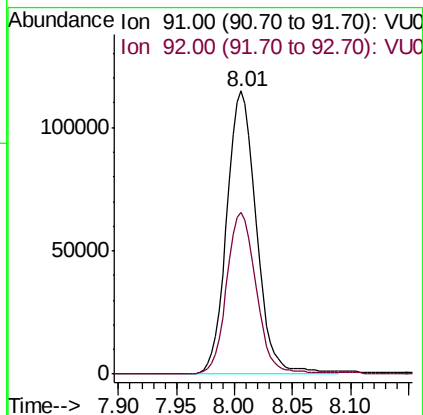
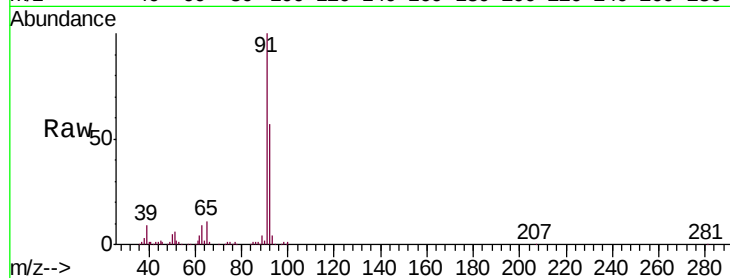
VSTD01035

Tgt Ion: 91 Resp: 203657

Ion Ratio Lower Upper

91 100

92 57.3 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 9.199 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VU035300.D

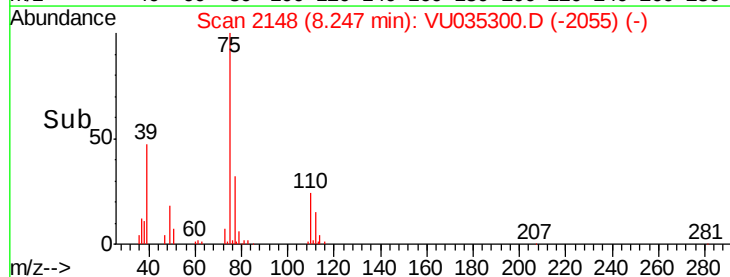
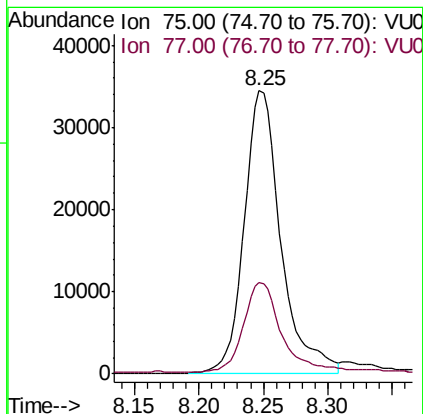
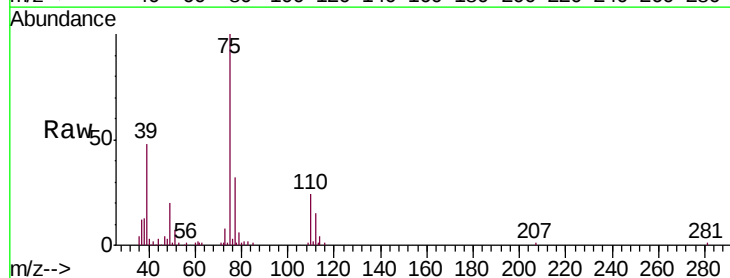
Acq: 19 Oct 2019 07:15

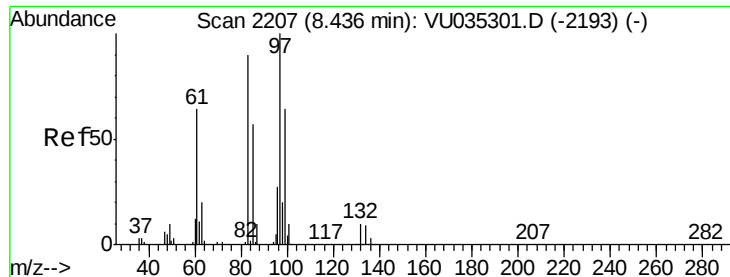
Tgt Ion: 75 Resp: 68737

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.9

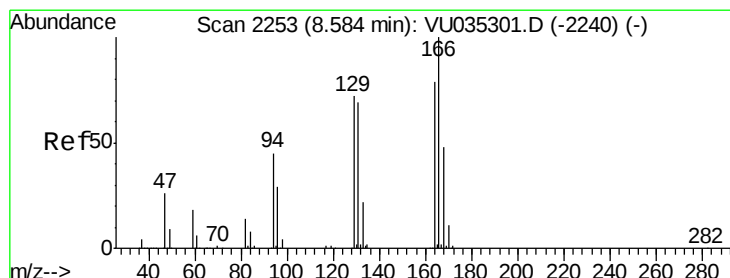
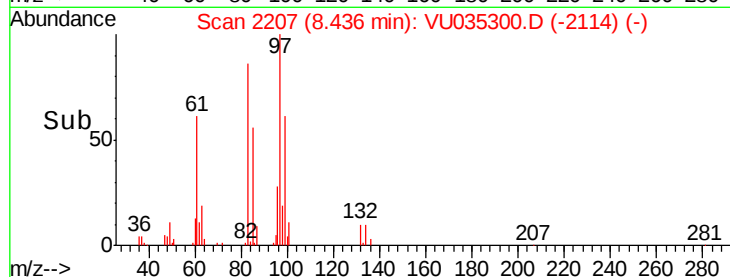
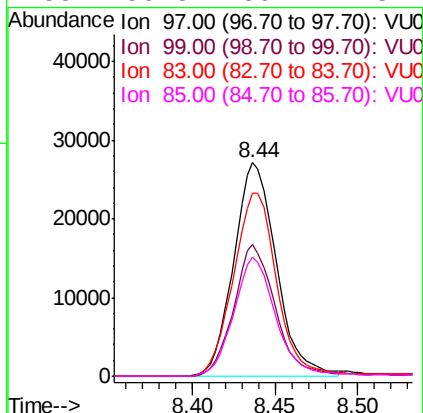
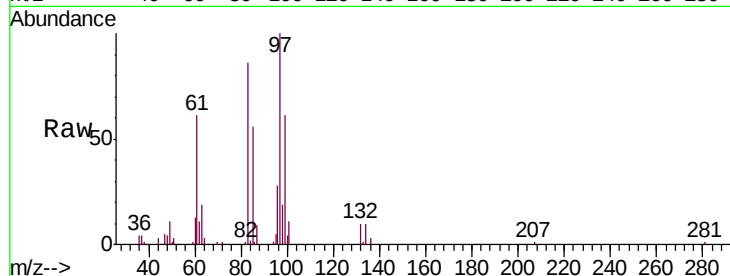




#45  
 1,1,2-Trichloroethane  
 Concen: 10.104 ug/L  
 RT: 8.44 min Scan# 2207  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

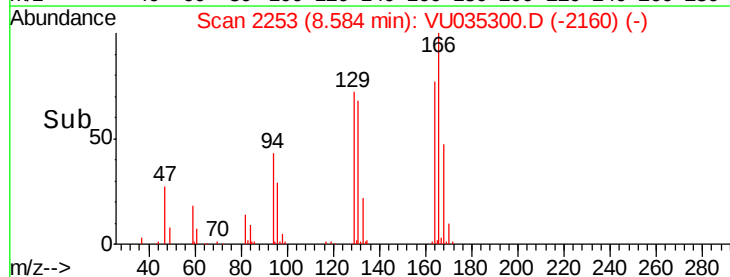
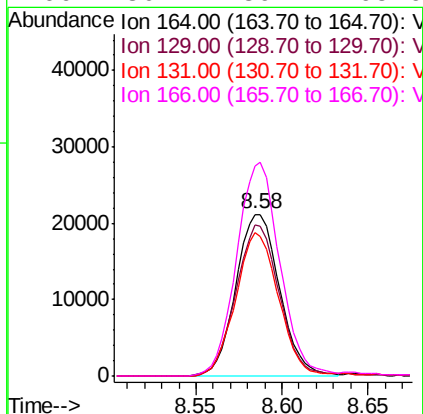
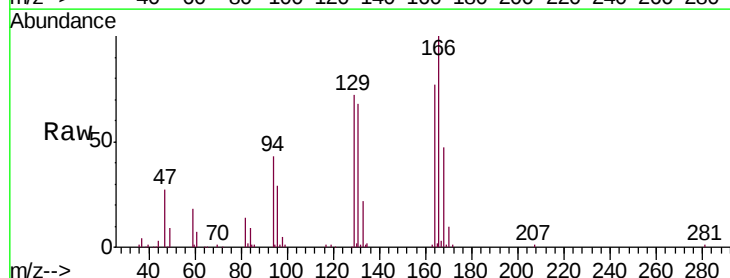
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

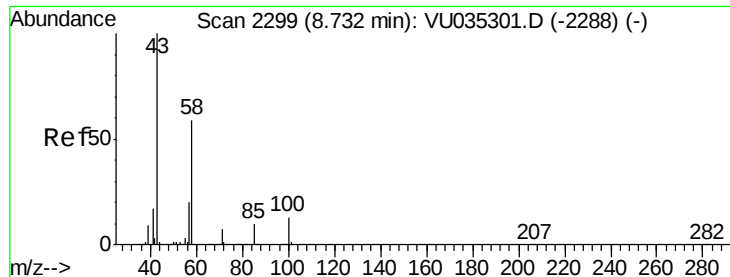
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 48501 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 61.5  | 44.5  | 82.7  |
| 83       | 85.5  | 63.0  | 117.0 |
| 85       | 55.8  | 39.7  | 73.7  |



#46  
 Tetrachloroethene  
 Concen: 9.490 ug/L  
 RT: 8.58 min Scan# 2253  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 37370 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.3  | 64.0  | 119.0 |
| 131      | 89.1  | 61.8  | 114.8 |
| 166      | 130.1 | 89.2  | 165.6 |

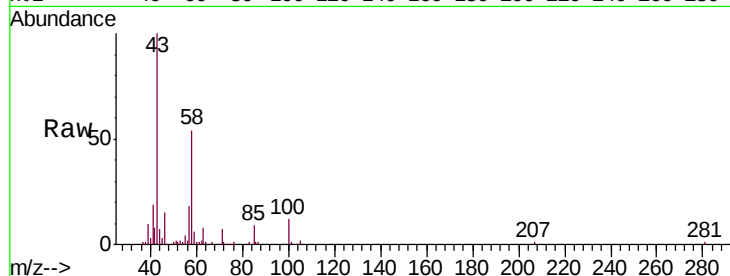




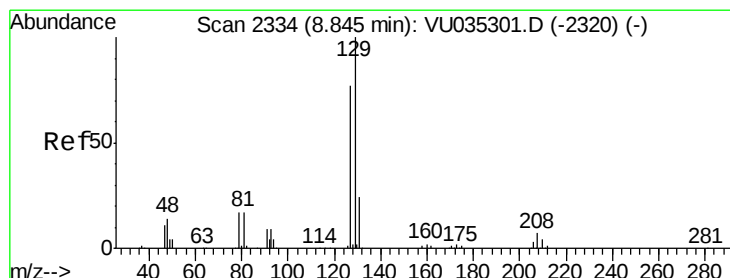
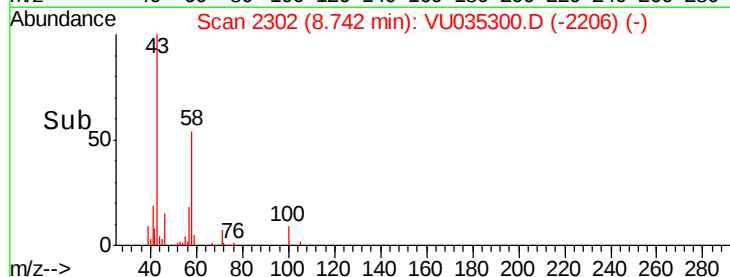
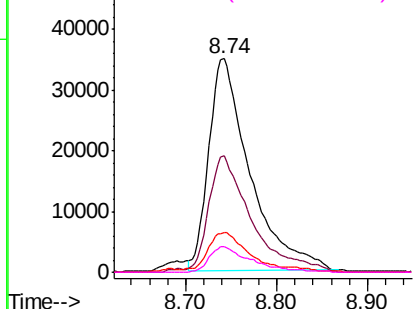
#48  
2-Hexanone  
Concen: 19.066 ug/L  
RT: 8.74 min Scan# 2302  
Delta R.T. 0.01 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01035

Tgt Ion: 43 Resp: 110425  
Ion Ratio Lower Upper  
43 100  
58 52.7 42.7 64.1  
57 16.4 14.8 22.2  
100 11.7 9.9 14.9

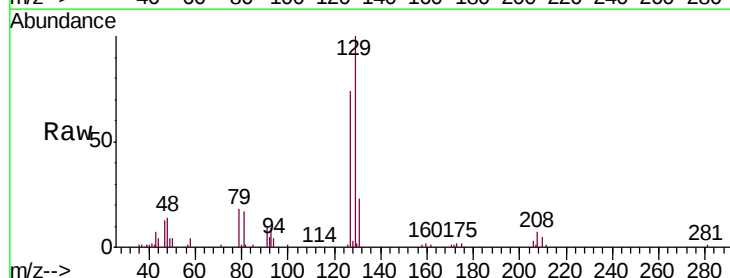


Abundance Ion 43.00 (42.70 to 43.70): VU035300.D (-2288) (-)  
Ion 58.00 (57.70 to 58.70): VU035300.D (-2288) (-)  
Ion 57.00 (56.70 to 57.70): VU035300.D (-2288) (-)  
Ion 100.00 (99.70 to 100.70): VU035300.D (-2288) (-)

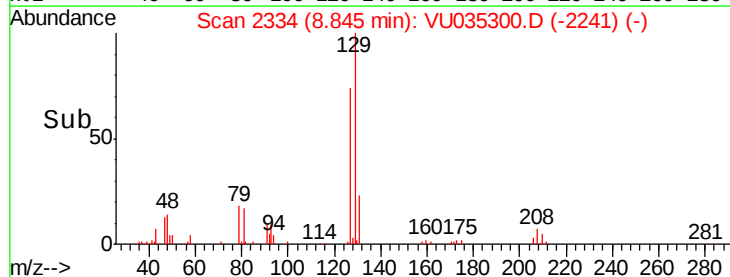
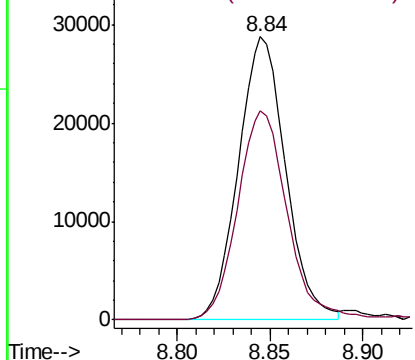


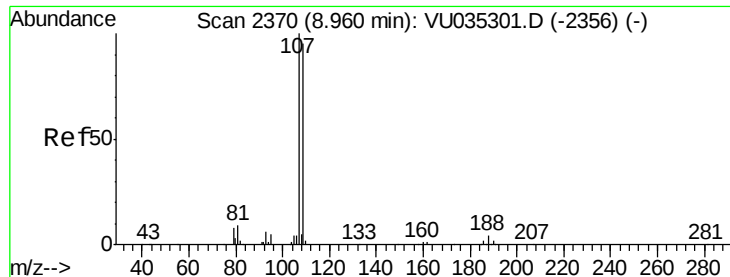
#49  
Dibromochloromethane  
Concen: 9.395 ug/L  
RT: 8.84 min Scan# 2334  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Tgt Ion: 129 Resp: 50928  
Ion Ratio Lower Upper  
129 100  
127 73.7 54.0 100.4



Abundance Ion 129.00 (128.70 to 129.70): VU035300.D (-2320) (-)  
Ion 127.00 (126.70 to 127.70): VU035300.D (-2320) (-)





#50

1,2-Dibromoethane

Concen: 9.576 ug/L

RT: 8.96 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

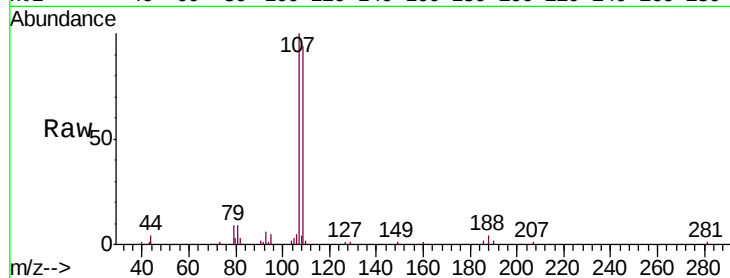
Tgt Ion:107 Resp: 51001

Ion Ratio Lower Upper

107 100

109 94.1 66.8 124.2

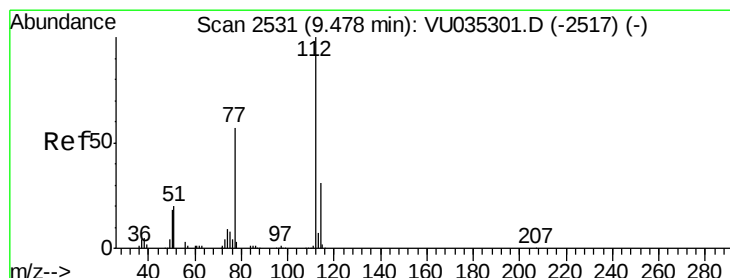
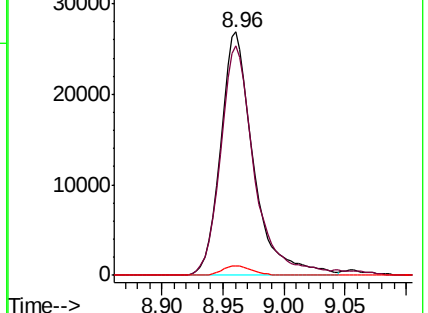
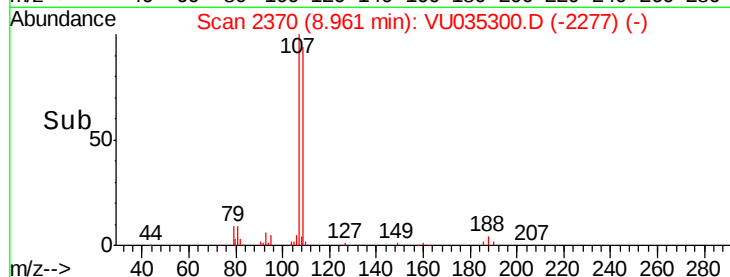
188 4.0 3.4 5.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 9.891 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

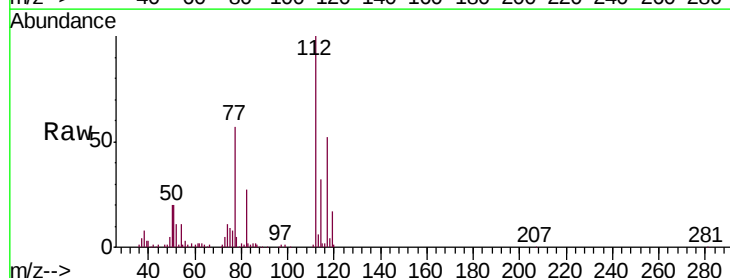
Tgt Ion:112 Resp: 131764

Ion Ratio Lower Upper

112 100

114 31.5 21.9 40.7

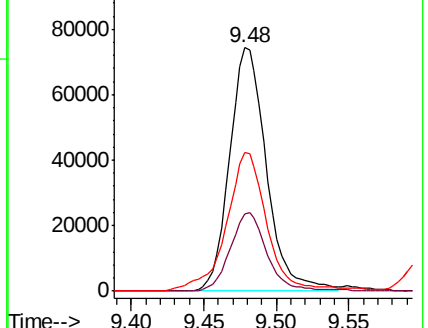
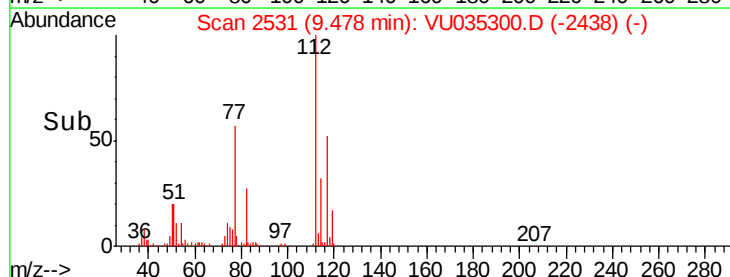
77 56.9 46.2 69.2

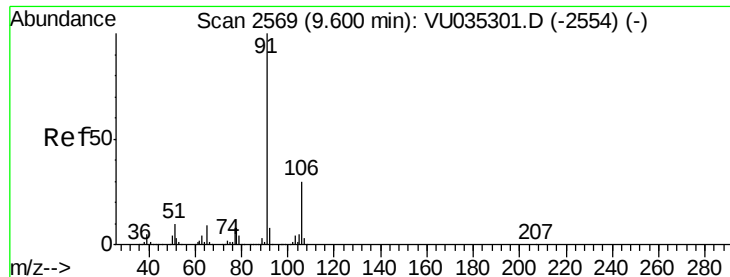


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VUO





#52

Ethylbenzene

Concen: 9.569 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

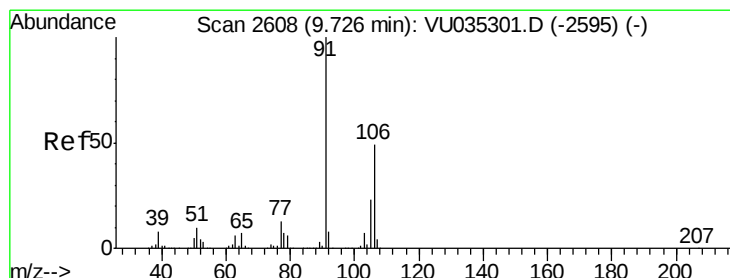
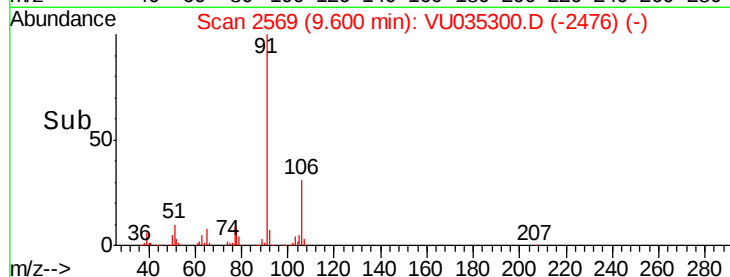
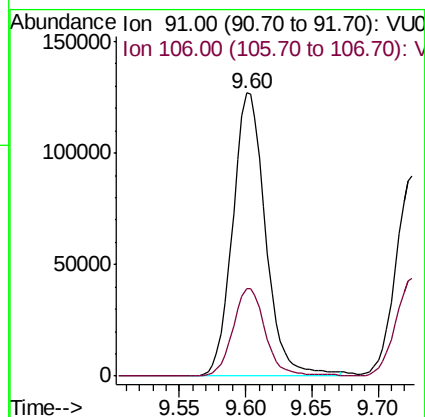
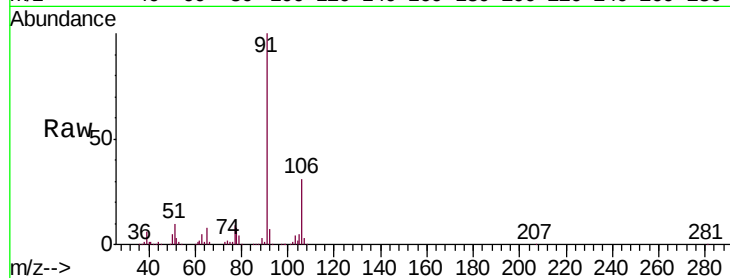
VSTD01035

Tgt Ion: 91 Resp: 218853

Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.6



#53

m,p-Xylene

Concen: 9.608 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035300.D

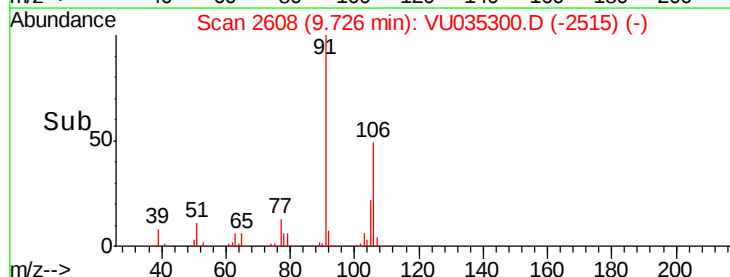
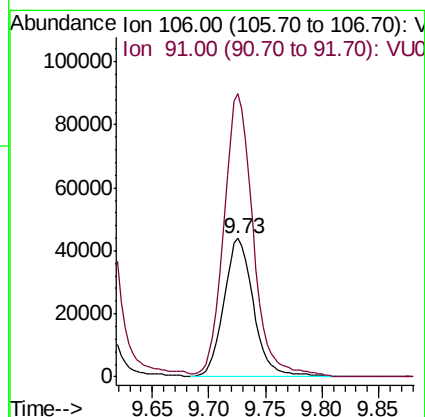
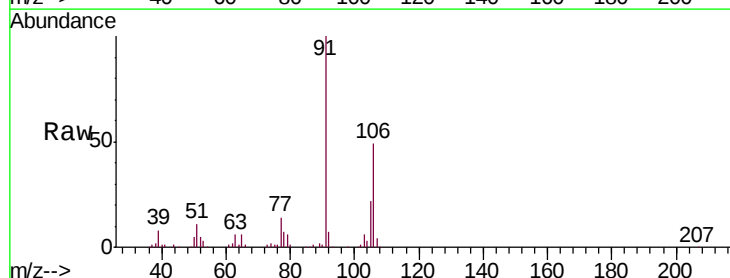
Acq: 19 Oct 2019 07:15

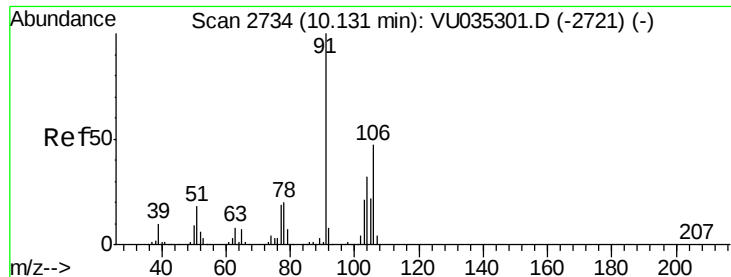
Tgt Ion: 106 Resp: 80662

Ion Ratio Lower Upper

106 100

91 204.3 141.5 262.9

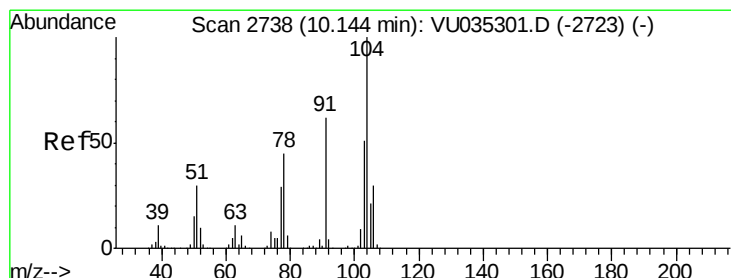
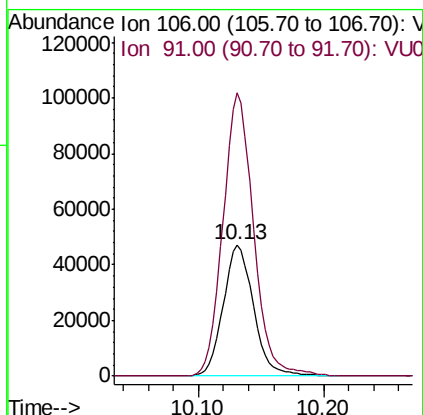
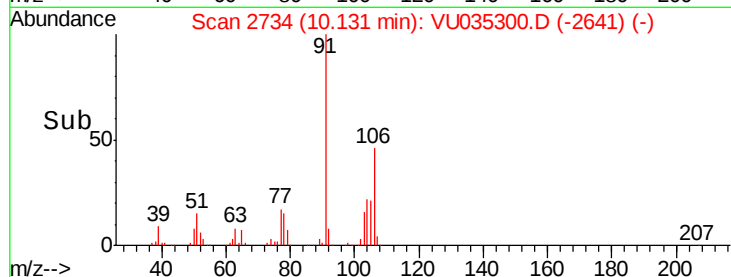
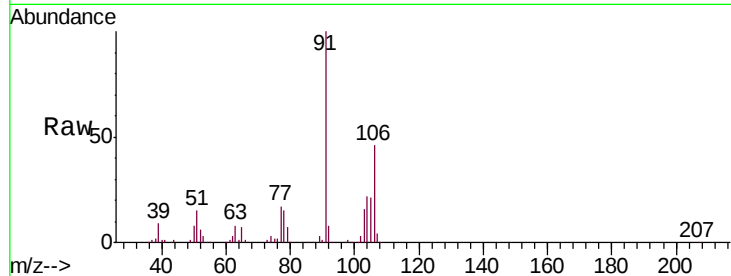




#54  
o-xylene  
Concen: 9.322 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

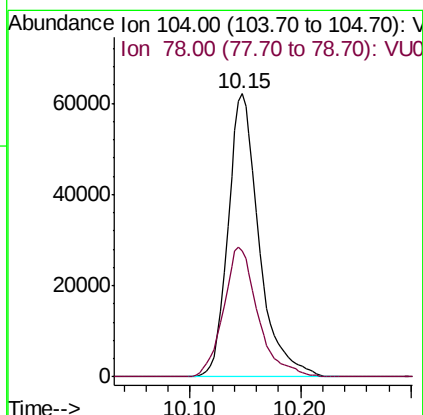
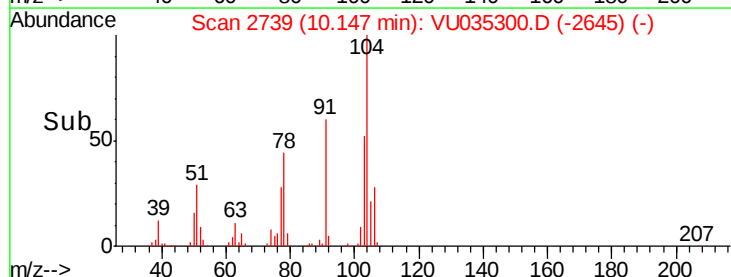
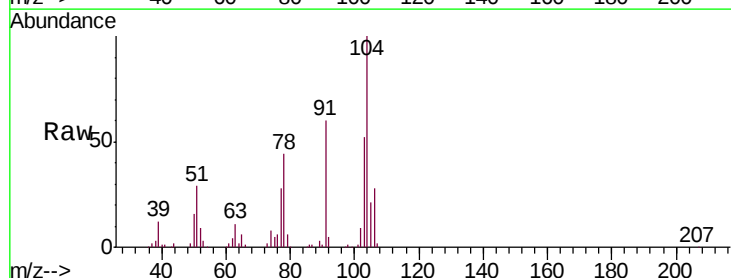
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01035

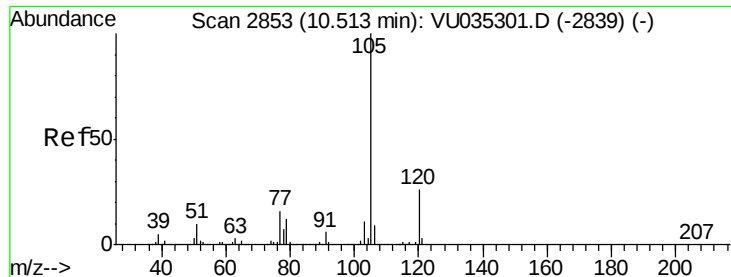
Tgt Ion:106 Resp: 79332  
Ion Ratio Lower Upper  
106 100  
91 215.8 150.6 279.8



#55  
Styrene  
Concen: 8.557 ug/L  
RT: 10.15 min Scan# 2739  
Delta R.T. 0.00 min  
Lab File: VU035300.D  
Acq: 19 Oct 2019 07:15

Tgt Ion:104 Resp: 120951  
Ion Ratio Lower Upper  
104 100  
78 44.4 31.5 58.5





#56

Isopropylbenzene

Concen: 9.363 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

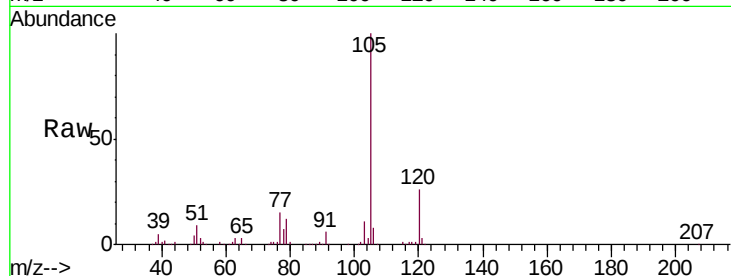
Tgt Ion: 105 Resp: 204322

Ion Ratio Lower Upper

105 100

120 25.6 21.1 31.7

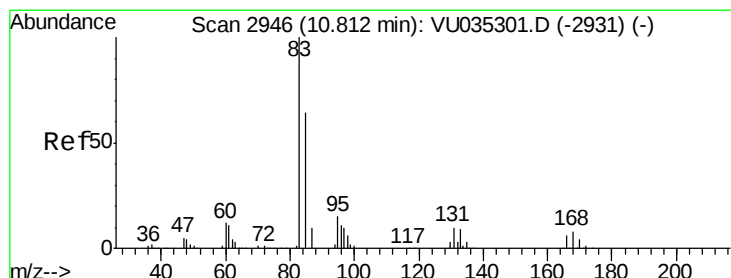
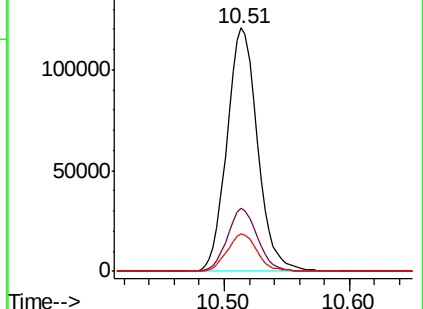
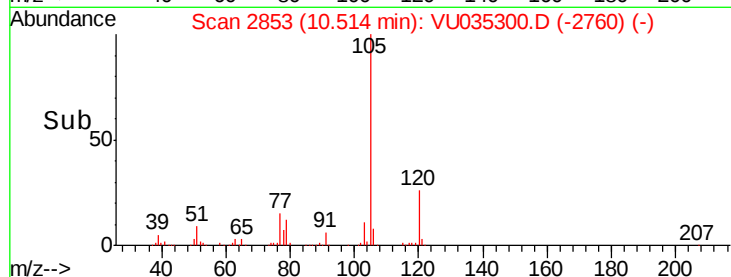
77 15.2 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 9.655 ug/L

RT: 10.82 min Scan# 2947

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

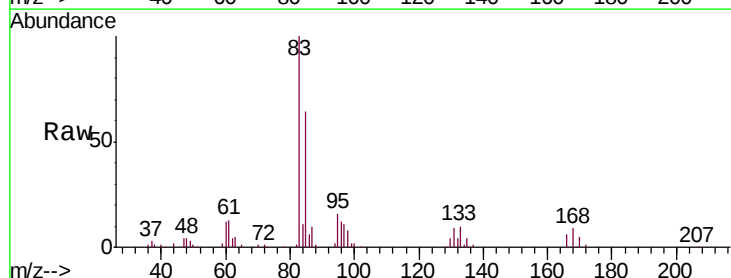
Tgt Ion: 83 Resp: 81266

Ion Ratio Lower Upper

83 100

85 63.9 44.9 83.5

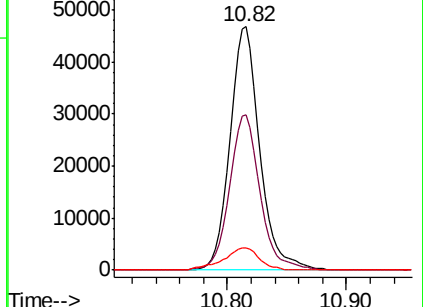
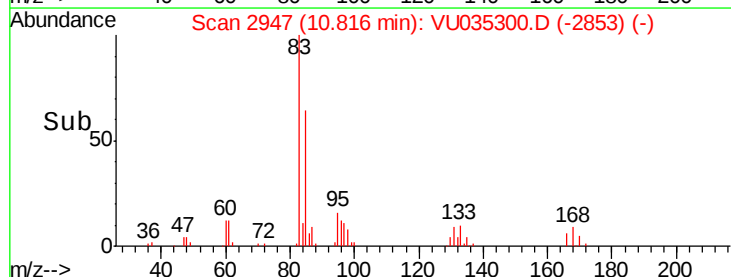
131 9.1 7.8 11.6

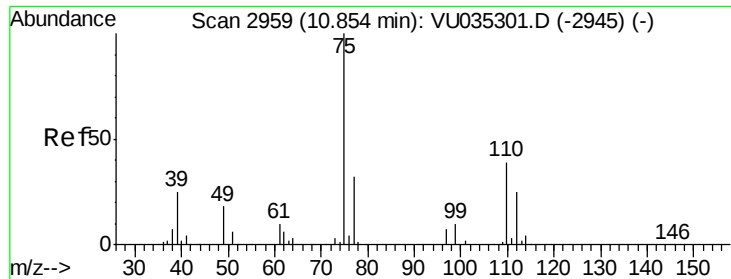


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 9.881 ug/L

RT: 10.85 min Scan# 2959

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

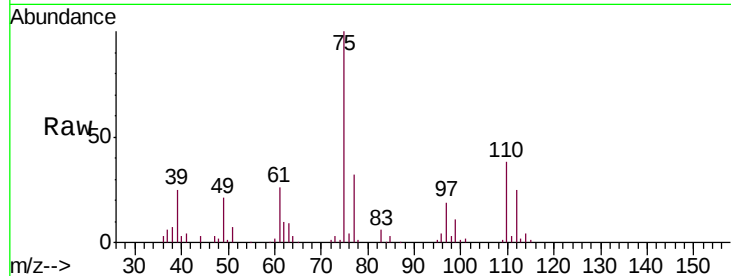
VSTD01035

Tgt Ion: 75 Resp: 64984

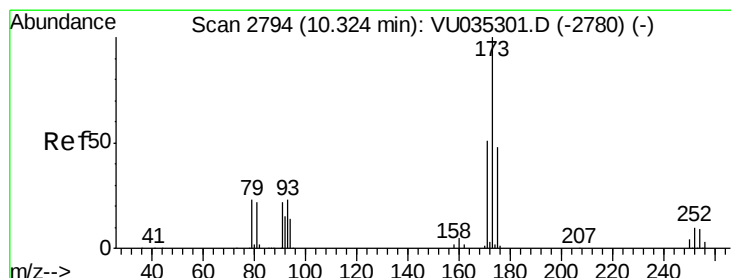
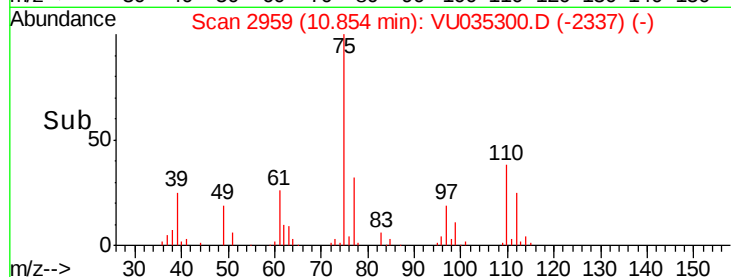
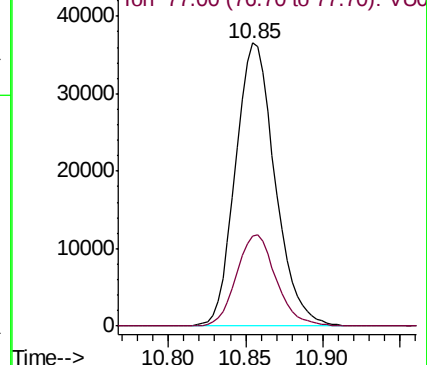
Ion Ratio Lower Upper

75 100

77 32.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU035301.D (-2945) (-)



#61

Bromoform

Concen: 10.806 ug/L

RT: 10.32 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

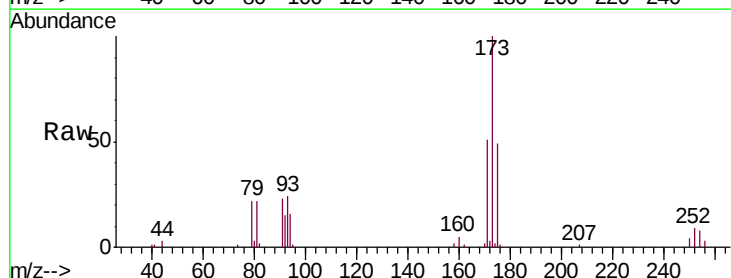
Tgt Ion: 173 Resp: 38427

Ion Ratio Lower Upper

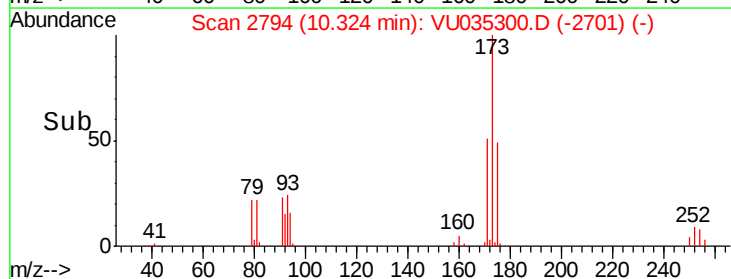
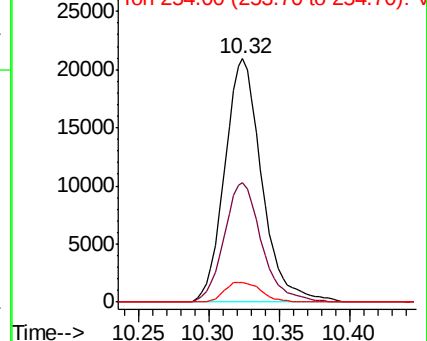
173 100

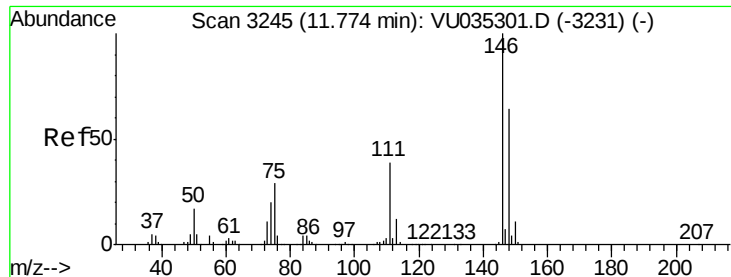
175 49.6 38.9 58.3

254 8.0 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): VU035301.D (-2780) (-)

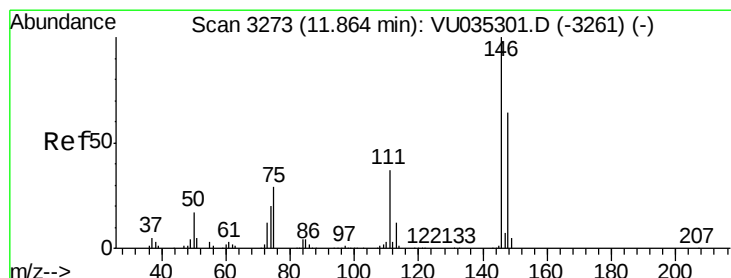
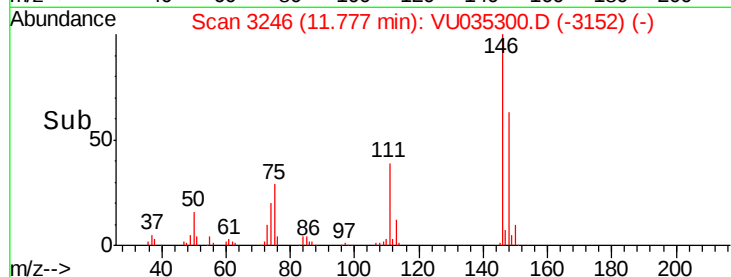
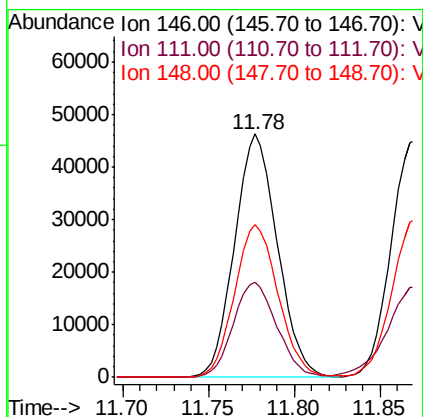
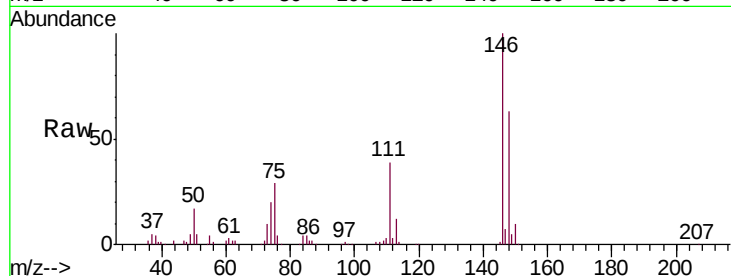




#62  
 1,3-Dichlorobenzene  
 Concen: 9.789 ug/L  
 RT: 11.78 min Scan# 3246  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

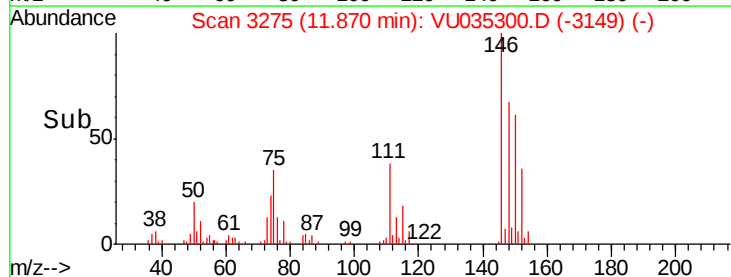
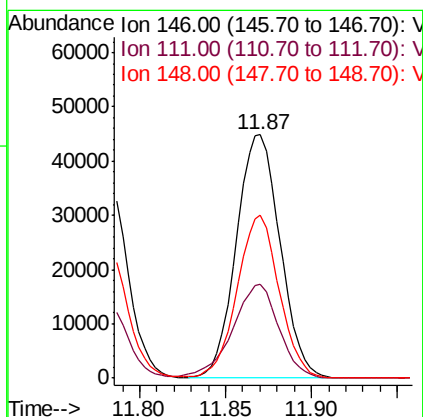
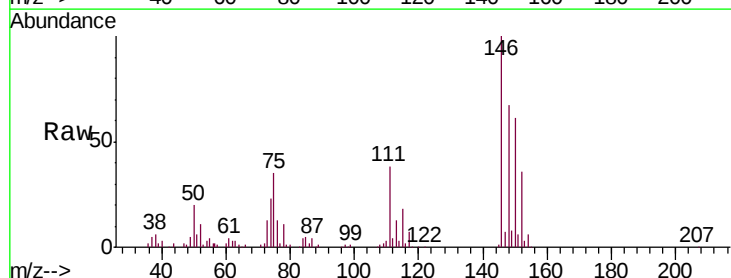
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

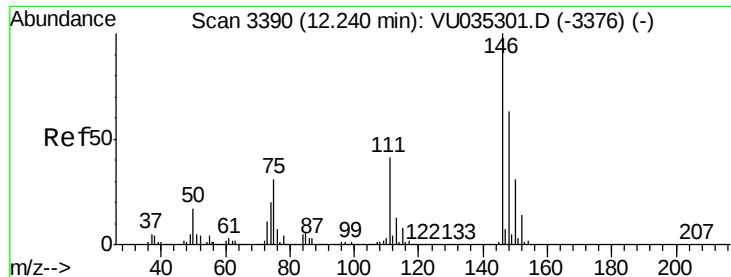
Tgt Ion:146 Resp: 80003  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 27.3 50.7  
 148 62.6 44.8 83.2



#63  
 1,4-Dichlorobenzene  
 Concen: 9.917 ug/L  
 RT: 11.87 min Scan# 3275  
 Delta R.T. 0.01 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

Tgt Ion:146 Resp: 79493  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 26.2 48.8  
 148 66.9 44.5 82.7

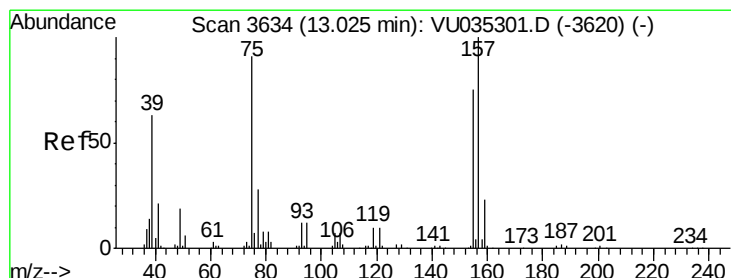
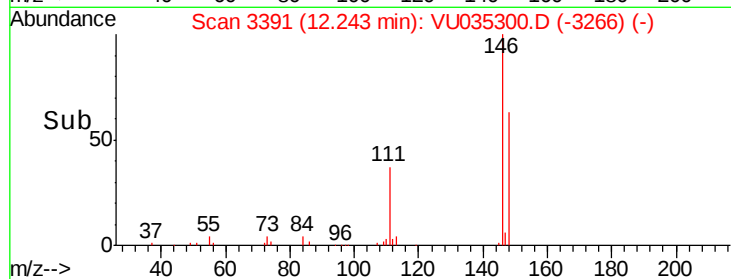
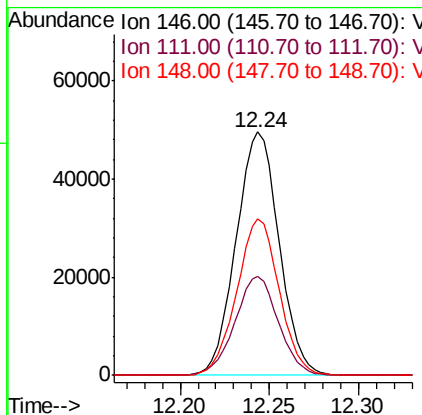
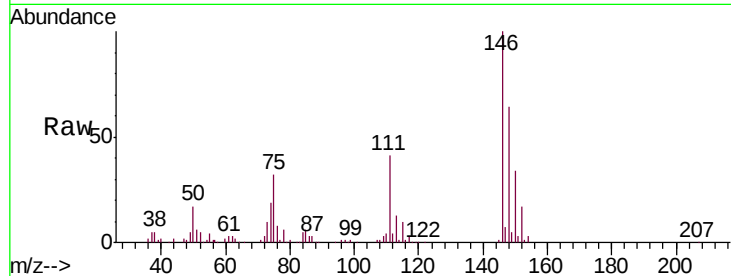




#65  
 1,2-Dichlorobenzene  
 Concen: 10.250 ug/L  
 RT: 12.24 min Scan# 3391  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

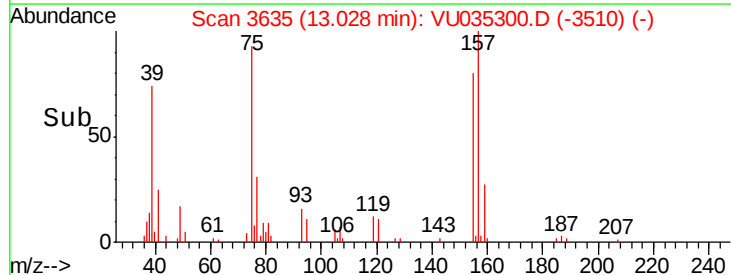
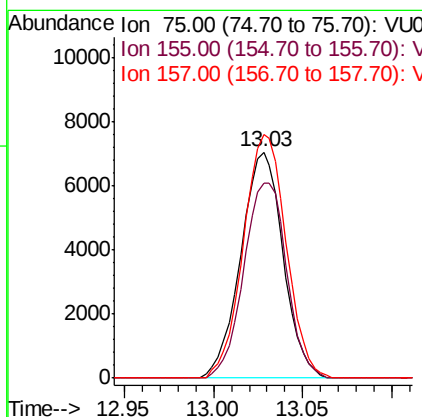
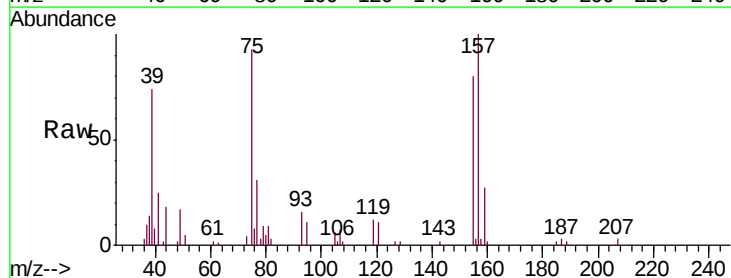
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01035

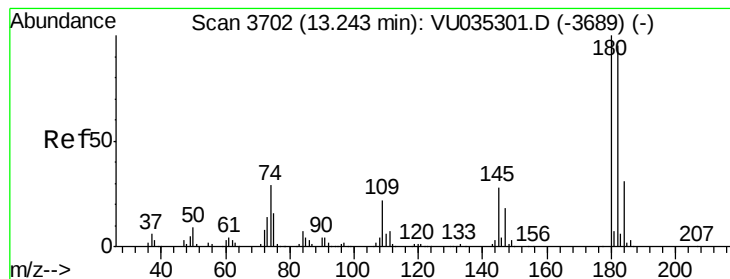
Tgt Ion: 146 Resp: 83621  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 32.8 49.2  
 148 64.2 50.2 75.4



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 9.018 ug/L  
 RT: 13.03 min Scan# 3635  
 Delta R.T. 0.00 min  
 Lab File: VU035300.D  
 Acq: 19 Oct 2019 07:15

Tgt Ion: 75 Resp: 11669  
 Ion Ratio Lower Upper  
 75 100  
 155 86.3 66.2 99.2  
 157 107.9 88.2 132.2





#67

1,3,5-Trichlorobenzene

Concen: 8.114 ug/L

RT: 13.25 min Scan# 3703

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

Tgt Ion:180 Resp: 37526

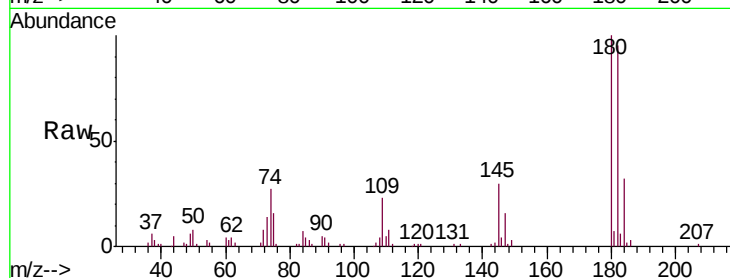
Ion Ratio Lower Upper

180 100

182 95.3 76.5 114.7

184 31.7 24.5 36.7

145 28.2 22.2 33.4

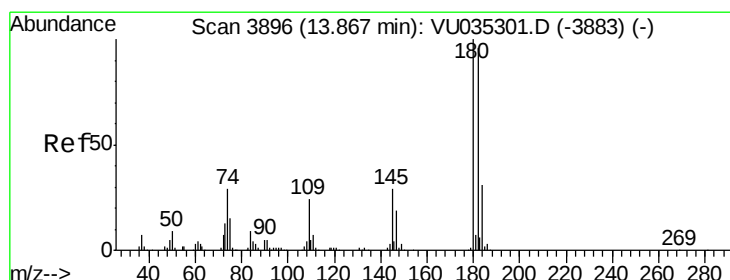
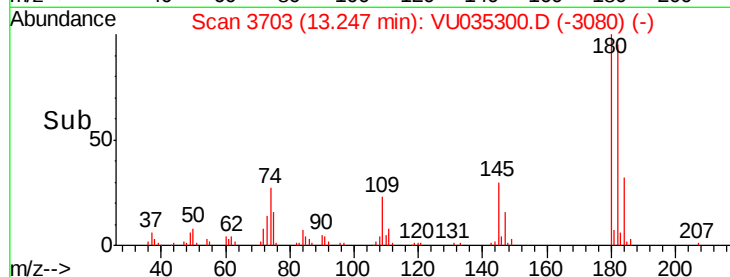
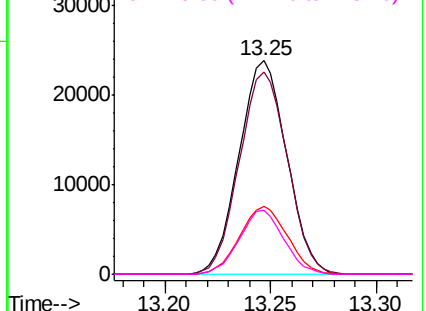


Abundance Ion 180.00 (179.70 to 180.70): V

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: 6.080 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

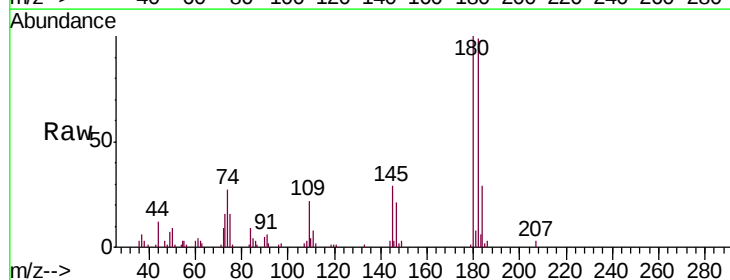
Tgt Ion:180 Resp: 17875

Ion Ratio Lower Upper

180 100

182 93.9 76.2 114.2

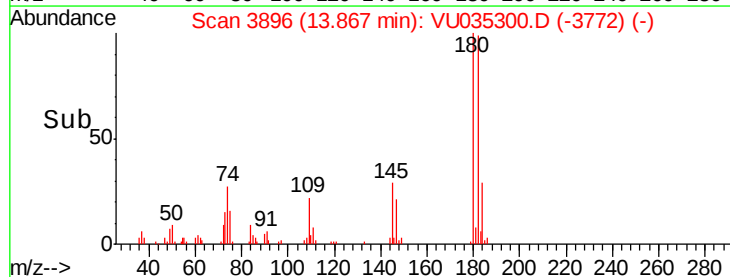
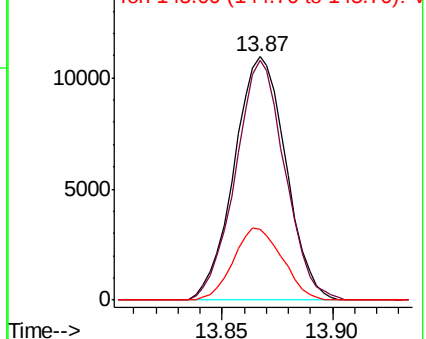
145 27.8 22.8 34.2

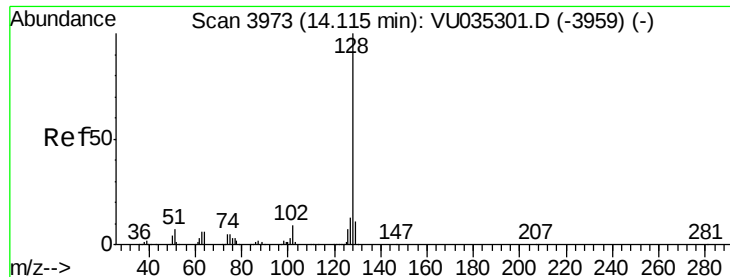


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 5.673 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01035

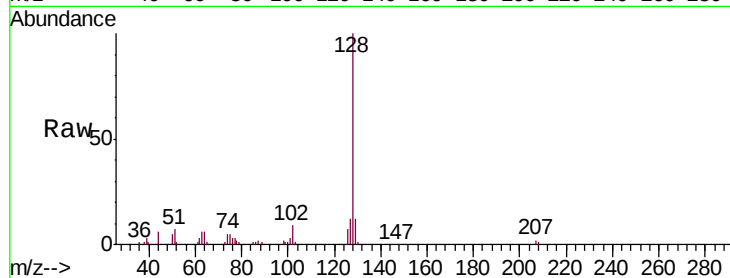
Tgt Ion:128 Resp: 41660

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.4

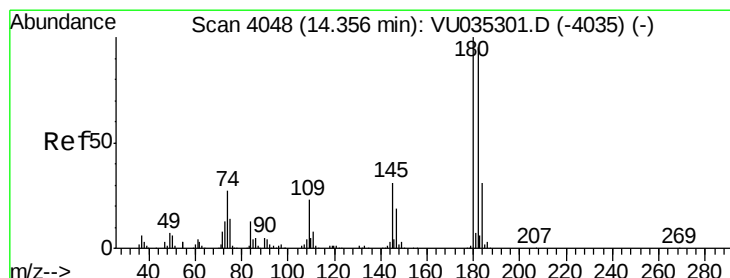
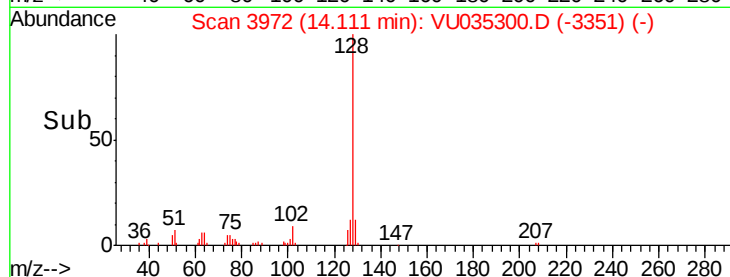
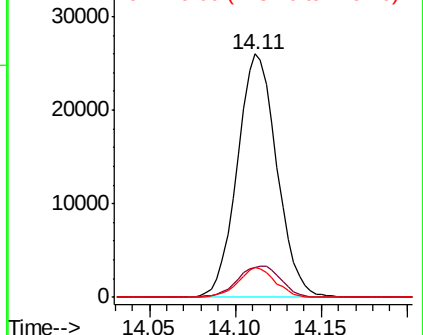
129 11.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 6.595 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. 0.00 min

Lab File: VU035300.D

Acq: 19 Oct 2019 07:15

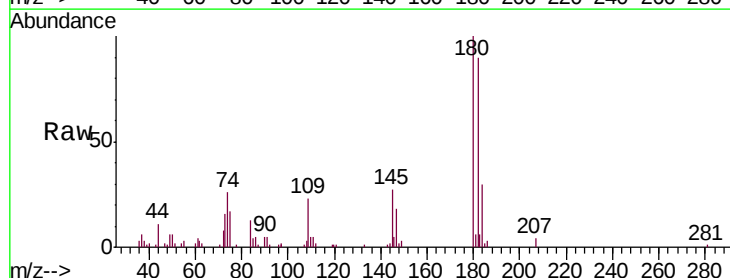
Tgt Ion:180 Resp: 20464

Ion Ratio Lower Upper

180 100

182 92.6 76.2 114.2

145 27.8 24.2 36.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

