

Data File : VU035603.D  
Acq On : 04 Nov 2019 11:46  
Operator : JC/SP  
Sample : VSTD01005  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

Quant Time: Nov 05 01:21:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 05 01:18:09 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 250745   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 267356   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 165456   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 258838 | 8.15   | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 215993 | 8.32   | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.60  | 63  | 435354 | 8.28   | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.71  | 46  | 589805 | 92.66  | ug/L | 0.00 |
| 24) Chloroform-d               | 5.11  | 84  | 420419 | 9.03   | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.75  | 65  | 212099 | 8.47   | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.77  | 84  | 882451 | 9.63   | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.74  | 67  | 277014 | 9.28   | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.93  | 98  | 845641 | 10.16  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.21  | 79  | 115886 | 10.00  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.68  | 63  | 495452 | 110.22 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78 | 84  | 234275 | 9.54   | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.22 | 152 | 318877 | 9.58   | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |             | Qvalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.40 | 85  | 275778  | 8.396 ug/L  | 98     |
| 3) Chloromethane               | 1.53 | 50  | 308569  | 8.123 ug/L  | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 325862  | 8.580 ug/L  | 98     |
| 6) Bromomethane                | 1.88 | 94  | 185411  | 9.222 ug/L  | 97     |
| 8) Chloroethane                | 1.95 | 64  | 188560  | 8.414 ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 394392  | 8.837 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 231595  | 9.158 ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 223594  | 9.467 ug/L  | 97     |
| 13) Acetone                    | 2.69 | 43  | 398597  | 82.663 ug/L | 99     |
| 14) Carbon disulfide           | 2.82 | 76  | 718680  | 8.697 ug/L  | 100    |
| 15) Methyl Acetate             | 3.00 | 43  | 96289   | 8.652 ug/L  | 100    |
| 16) Methylene chloride         | 3.08 | 84  | 243601  | 8.026 ug/L  | 99     |
| 17) Methyl tert-butyl Ether    | 3.43 | 73  | 536216  | 9.402 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 232135  | 9.089 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 428635  | 8.604 ug/L  | 99     |
| 21) 2-Butanone                 | 4.79 | 43  | 640647  | 90.954 ug/L | 99     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 256814  | 9.366 ug/L  | 99     |
| 23) Bromochloromethane         | 5.03 | 128 | 119138  | 9.316 ug/L  | 98     |
| 25) Chloroform                 | 5.14 | 83  | 442081  | 8.389 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 263983  | 8.507 ug/L  | 99     |
| 29) 1,1,1-Trichloroethane      | 5.36 | 97  | 362990  | 9.173 ug/L  | 99     |
| 30) Cyclohexane                | 5.43 | 56  | 383158  | 9.550 ug/L  | 99     |
| 31) Carbon tetrachloride       | 5.57 | 117 | 330538  | 9.351 ug/L  | 97     |
| 33) Benzene                    | 5.82 | 78  | 979687  | 9.380 ug/L  | 100    |
| 34) Trichloroethene            | 6.58 | 95  | 248907  | 9.603 ug/L  | 97     |
| 35) Methylcyclohexane          | 6.80 | 83  | 403965  | 10.081 ug/L | 97     |
| 37) 1,2-Dichloropropane        | 6.84 | 63  | 252053  | 9.121 ug/L  | 99     |
| 38) Bromodichloromethane       | 7.15 | 83  | 307136  | 8.985 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.65 | 75  | 377261  | 9.785 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 7.84 | 43  | 1540269 | 95.522 ug/L | 99     |

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Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

Quant Time: Nov 05 01:21:51 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR110419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 05 01:18:09 2019  
Response via : Initial Calibration

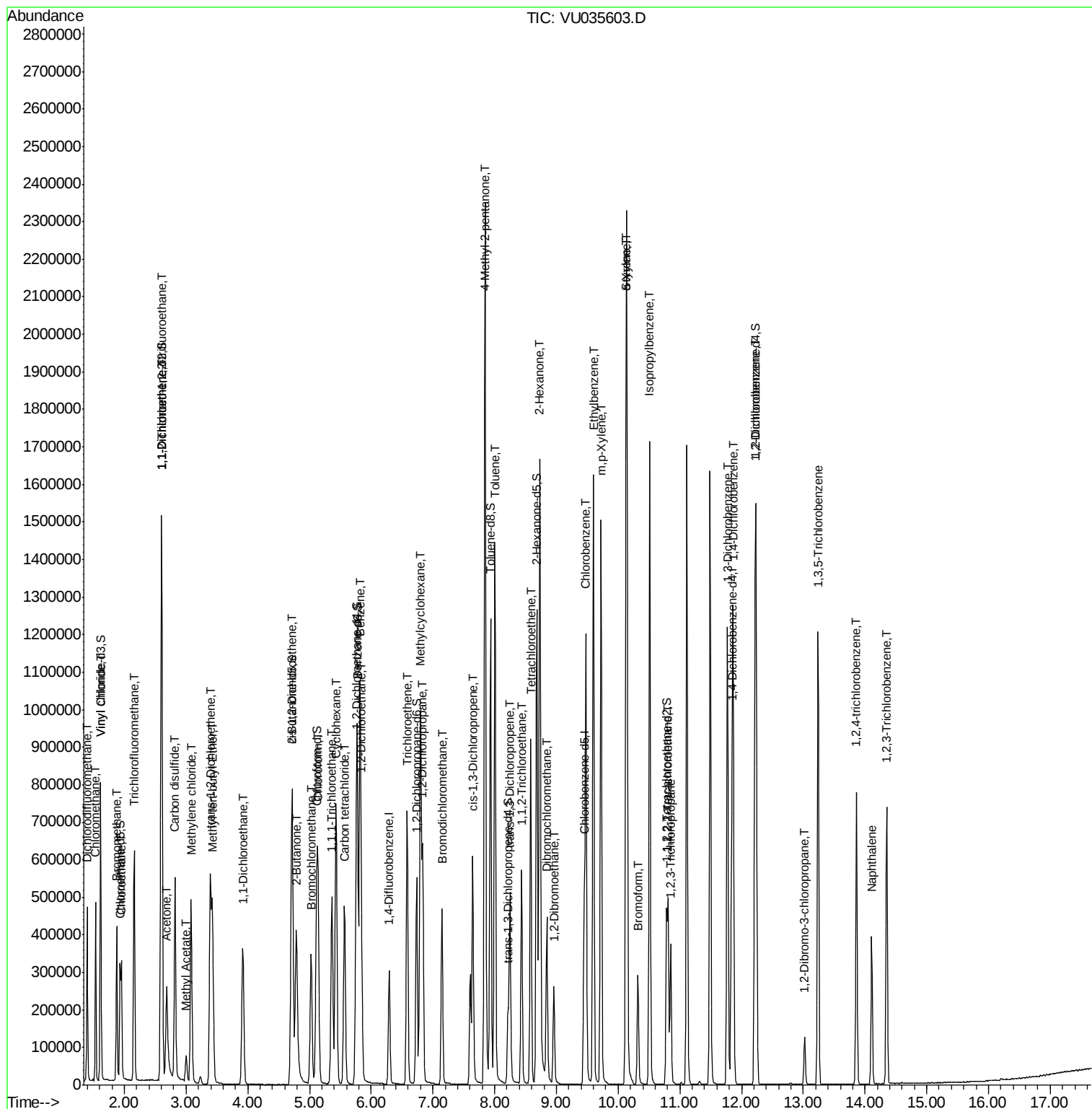
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 8.01  | 91   | 1068615  | 9.978  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.25  | 75   | 304720   | 9.954  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.44  | 97   | 181840   | 9.394  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.58  | 164  | 219664   | 10.151 | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.73  | 43   | 1078815  | 99.411 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.84  | 129  | 227867   | 9.959  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.96  | 107  | 177793   | 9.873  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.48  | 112  | 676657   | 9.887  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.60  | 91   | 1142240  | 10.207 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 441620   | 10.753 | ug/L  | 100      |
| 54) o-Xylene                   | 10.13 | 106  | 430491   | 10.736 | ug/L  | 99       |
| 55) Styrene                    | 10.14 | 104  | 736162   | 11.252 | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.51 | 105  | 1132351  | 10.794 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 238188   | 9.462  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 167714   | 9.381  | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 141418   | 8.731  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 551528   | 9.739  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 544868   | 9.685  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 12.24 | 146  | 523680   | 9.592  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 32305    | 9.004  | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 402714   | 11.459 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 263219   | 13.428 | ug/L  | 98       |
| 69) Naphthalene                | 14.11 | 128  | 324936   | 12.244 | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 249392   | 12.852 | ug/L  | 97       |

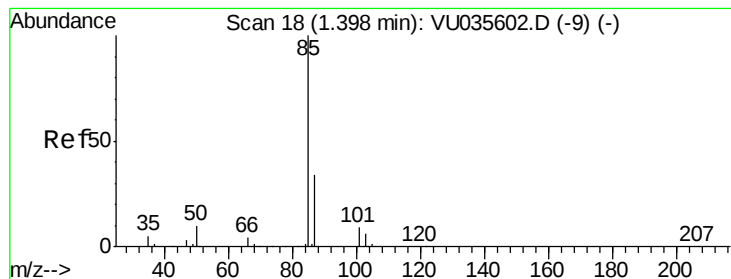
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 8.396 ug/L

RT: 1.40 min Scan# 18

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

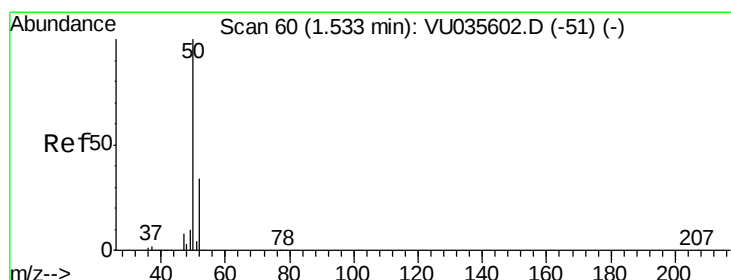
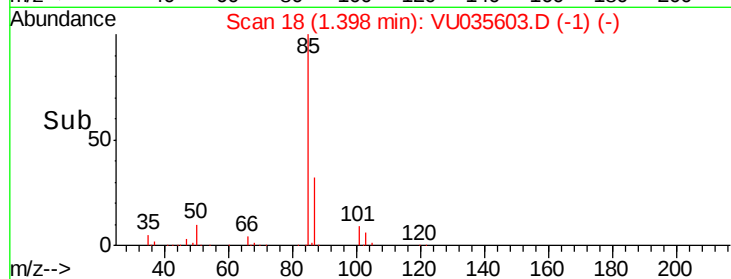
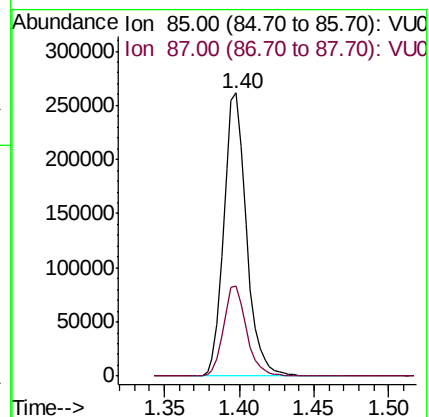
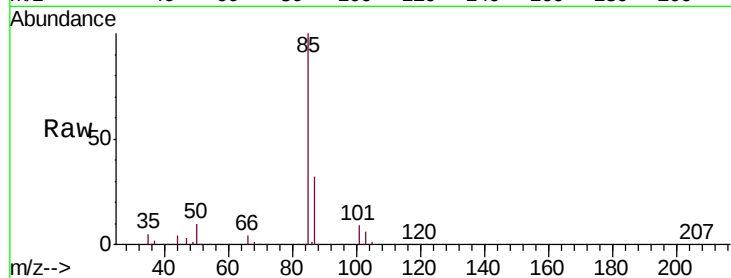
VSTD01005

Tgt Ion: 85 Resp: 275778

Ion Ratio Lower Upper

85 100

87 32.3 26.8 40.2



#3

Chloromethane

Concen: 8.123 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU035603.D

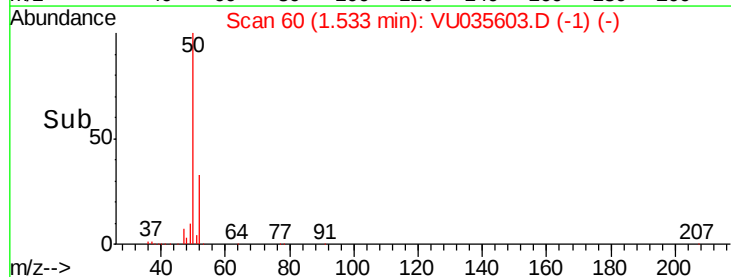
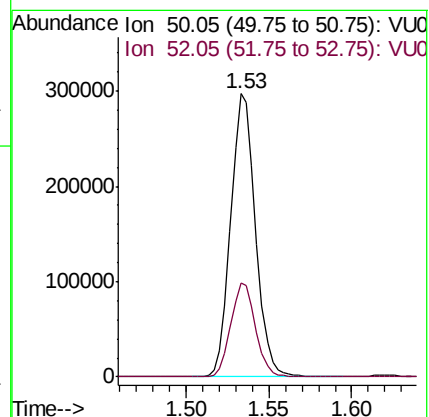
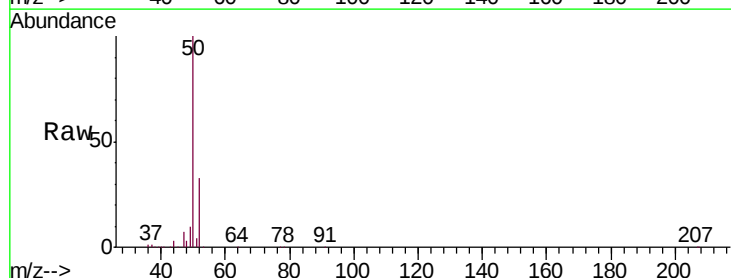
Acq: 04 Nov 2019 11:46

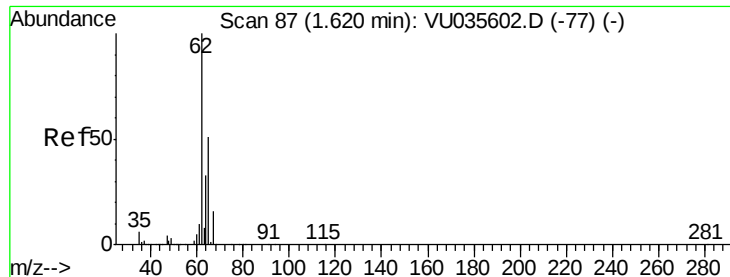
Tgt Ion: 50 Resp: 308569

Ion Ratio Lower Upper

50 100

52 33.2 23.4 43.6





#5

Vinyl chloride

Concen: 8.580 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

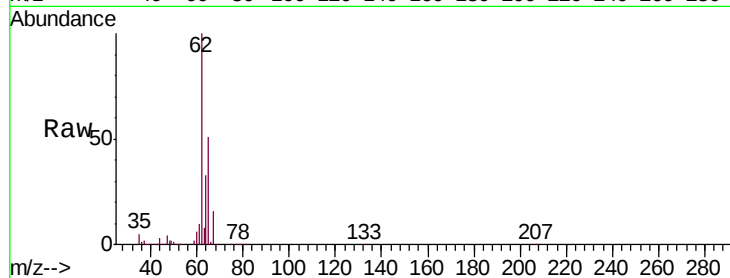
VSTD01005

Tgt Ion: 62 Resp: 325862

Ion Ratio Lower Upper

62 100

64 32.7 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU035602.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU035602.D (-77) (-)

1.62

300000

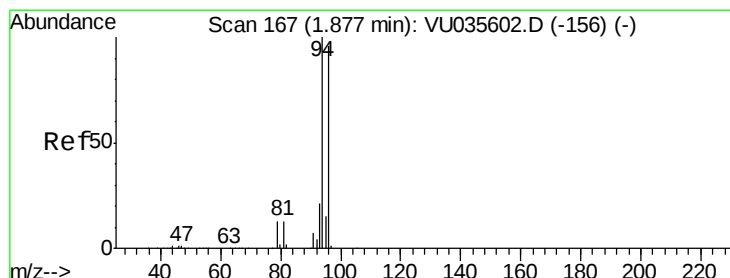
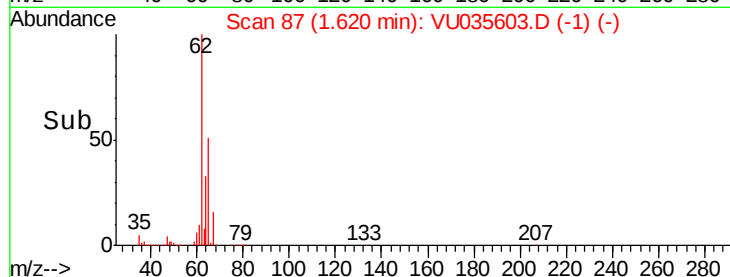
200000

100000

0

1.55 1.60 1.65 1.70

Time-->



#6

Bromomethane

Concen: 9.222 ug/L

RT: 1.88 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU035603.D

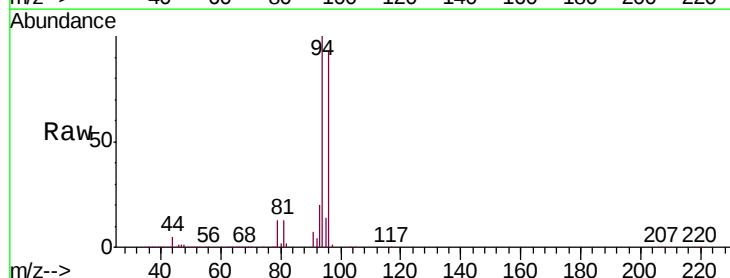
Acq: 04 Nov 2019 11:46

Tgt Ion: 94 Resp: 185411

Ion Ratio Lower Upper

94 100

96 92.8 66.8 124.2



Abundance Ion 94.00 (93.70 to 94.70): VU035602.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035602.D (-156) (-)

1.88

150000

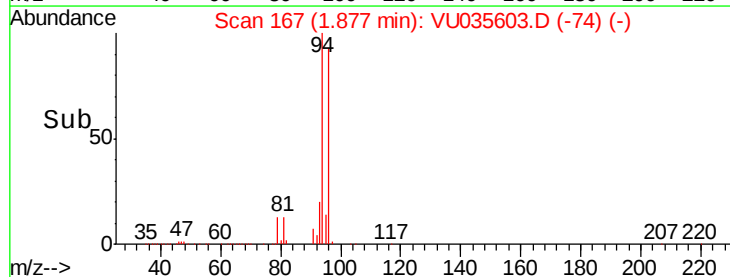
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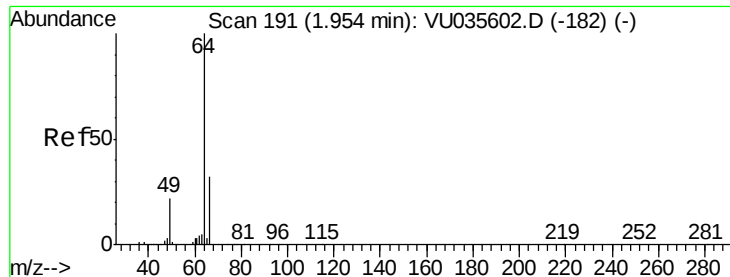
50000

0

1.80 1.85 1.90 1.95 2.00

Time-->





#8

Chloroethane

Concen: 8.414 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

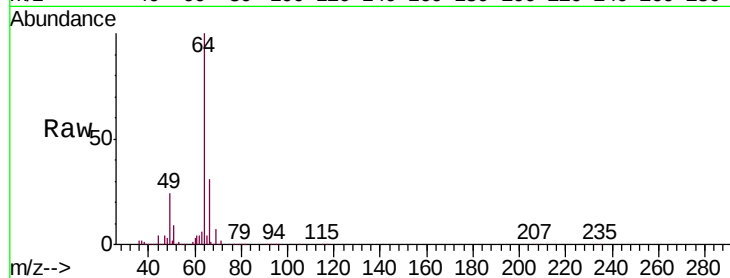
VSTD01005

Tgt Ion: 64 Resp: 188560

Ion Ratio Lower Upper

64 100

66 31.3 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VU035603.D (-182) (-)

Ion 66.05 (65.75 to 66.75): VU035603.D (-182) (-)

1.95

150000

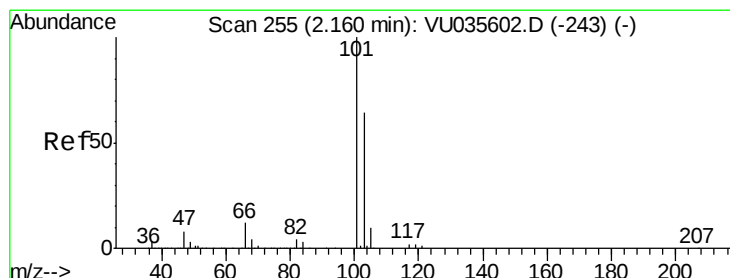
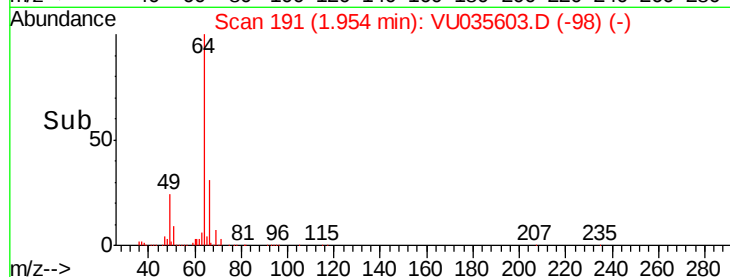
100000

50000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 8.837 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035603.D

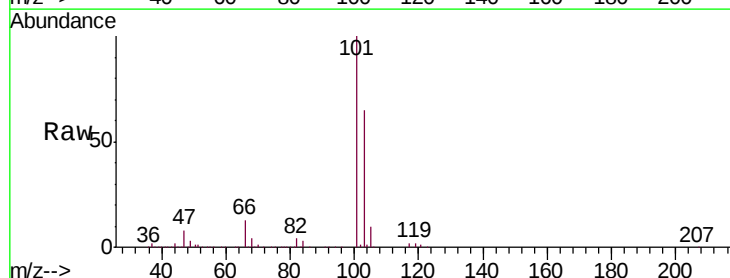
Acq: 04 Nov 2019 11:46

Tgt Ion: 101 Resp: 394392

Ion Ratio Lower Upper

101 100

103 64.9 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU035603.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU035603.D (-243) (-)

2.16

300000

250000

200000

150000

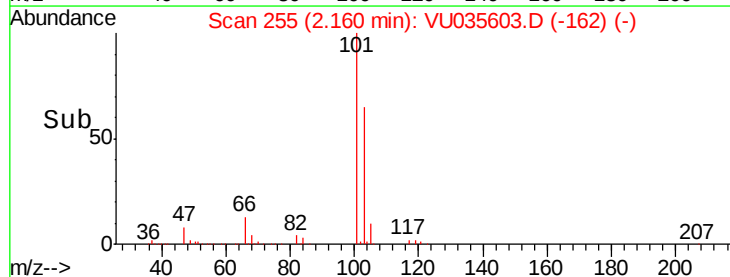
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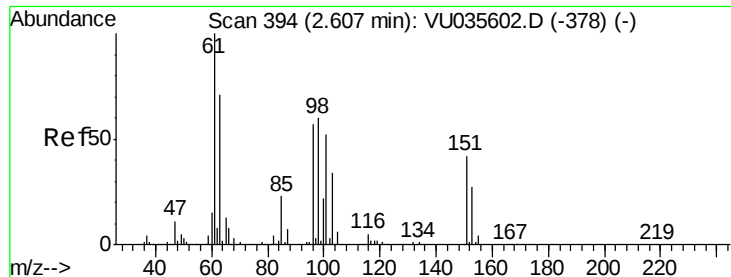
50000

0

2.10 2.15 2.20 2.25

Time-->





#10

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

Concen: 9.158 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

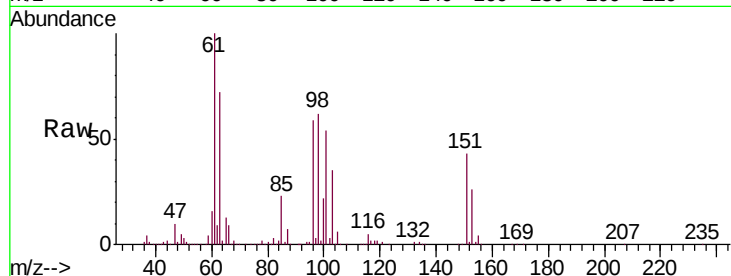
Tgt Ion: 101 Resp: 231595

Ion Ratio Lower Upper

101 100

85 43.2 35.0 52.6

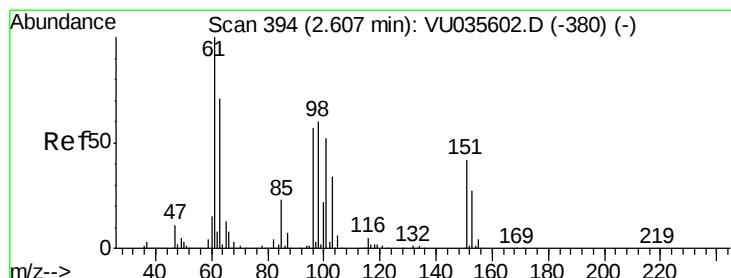
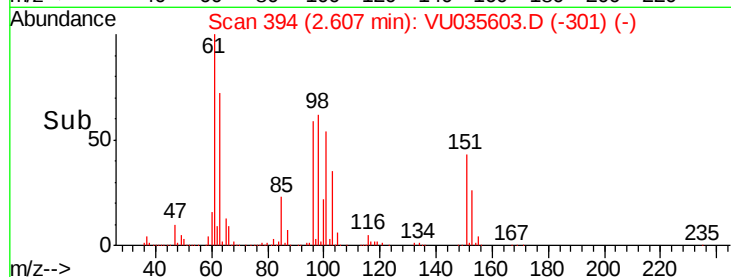
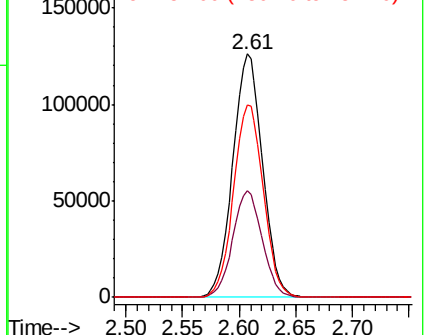
151 79.1 64.0 96.0



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: 9.467 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

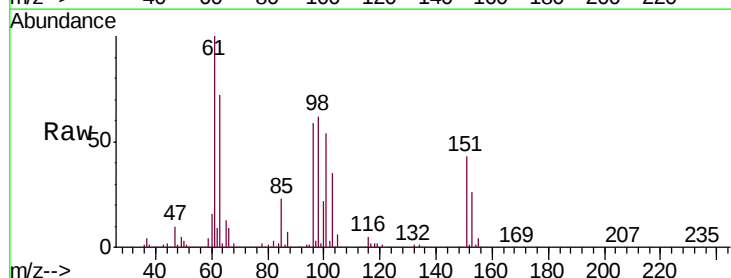
Tgt Ion: 96 Resp: 223594

Ion Ratio Lower Upper

96 100

61 170.1 123.1 228.5

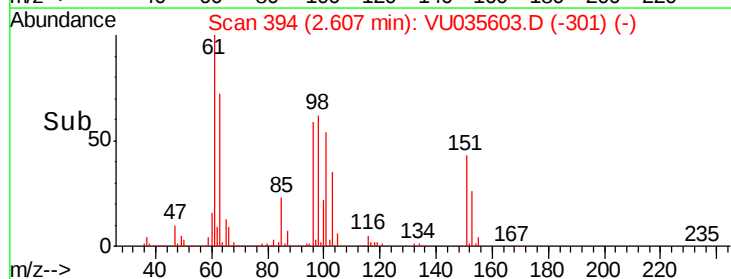
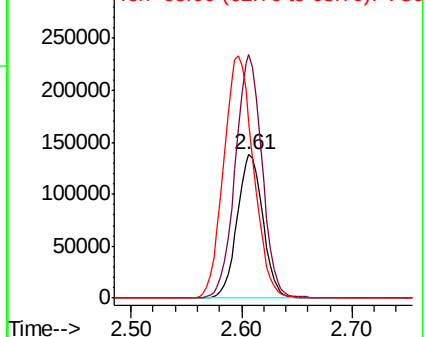
63 122.8 87.8 163.0

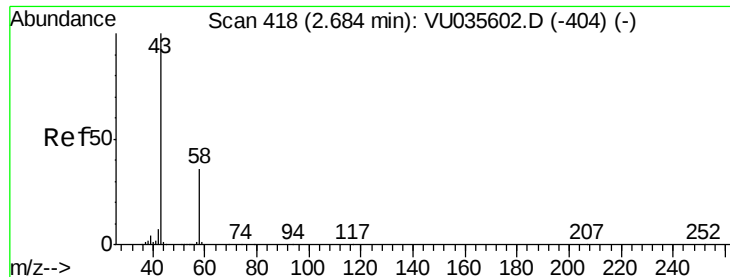


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 82.663 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.00 min

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MSVOA\_U

ClientSampleId :

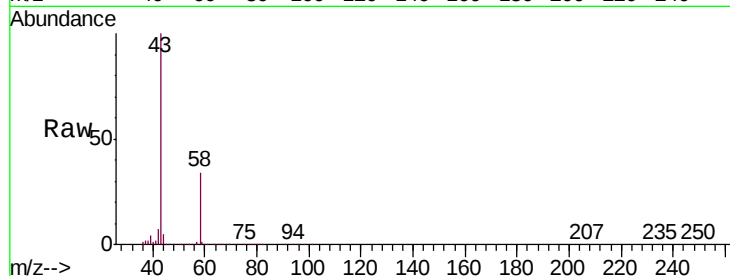
VSTD01005

Tgt Ion: 43 Resp: 398597

Ion Ratio Lower Upper

43 100

58 35.4 0.0 69.8



Abundance Ion 43.05 (42.75 to 43.75): VU035602.D (-404) (-)

Ion 58.05 (57.75 to 58.75): VU035602.D (-404) (-)

2.69

150000

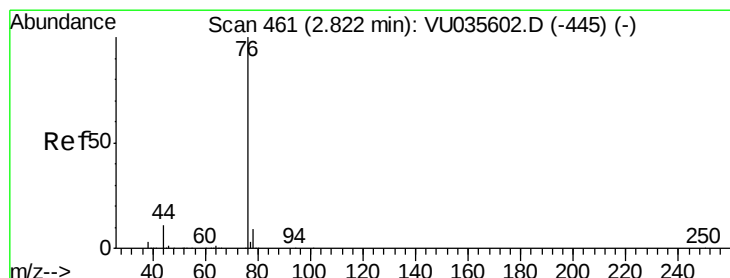
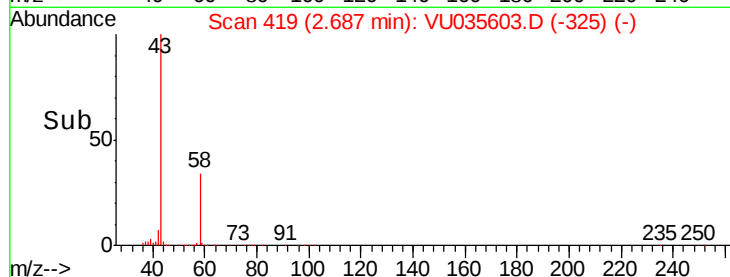
100000

50000

0

2.60 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 8.697 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035603.D

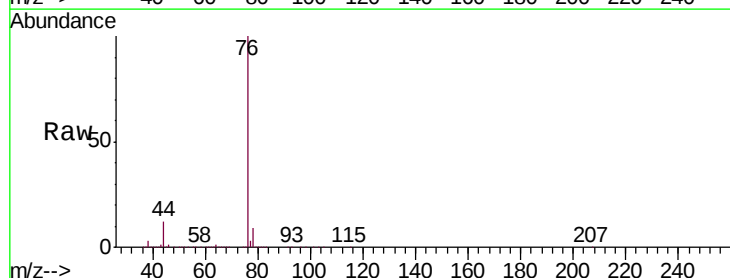
Acq: 04 Nov 2019 11:46

Tgt Ion: 76 Resp: 718680

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU035602.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU035602.D (-445) (-)

2.82

400000

300000

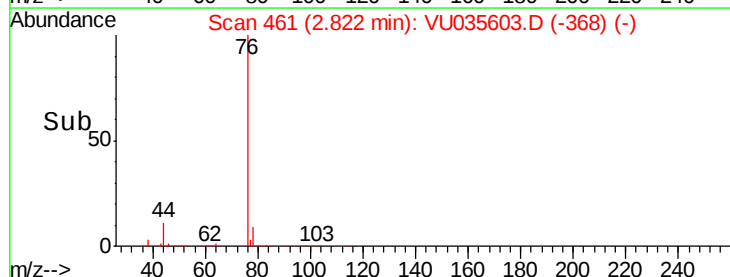
200000

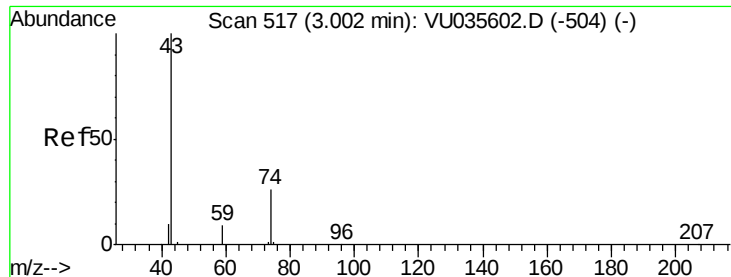
100000

0

2.70 2.80 2.90

Time-->

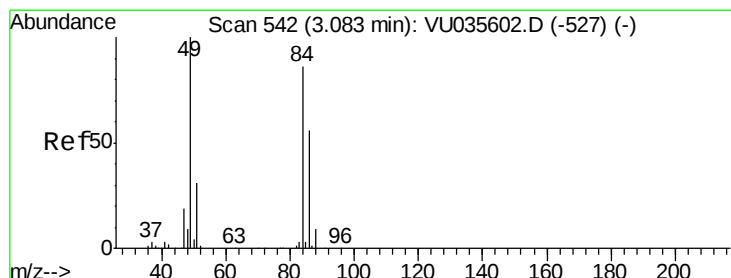
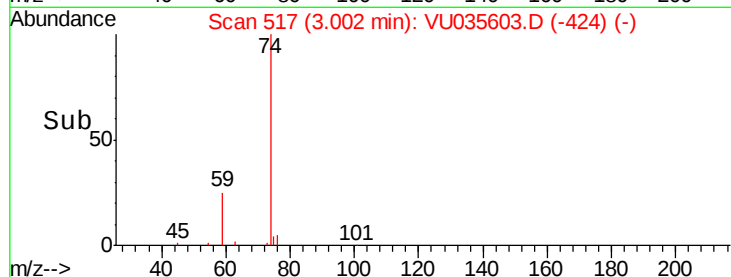
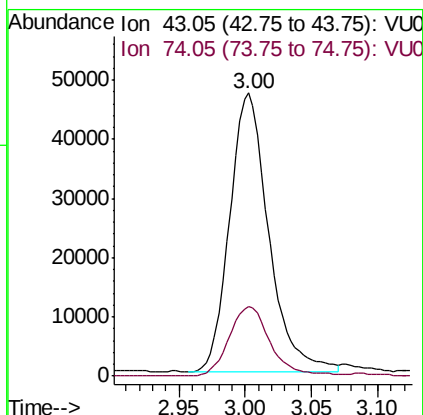
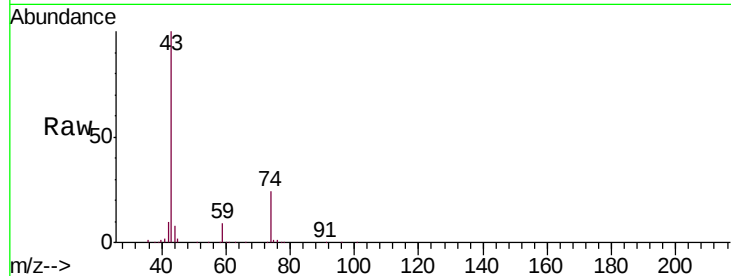




#15  
Methyl Acetate  
Concen: 8.652 ug/L  
RT: 3.00 min Scan# 517  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

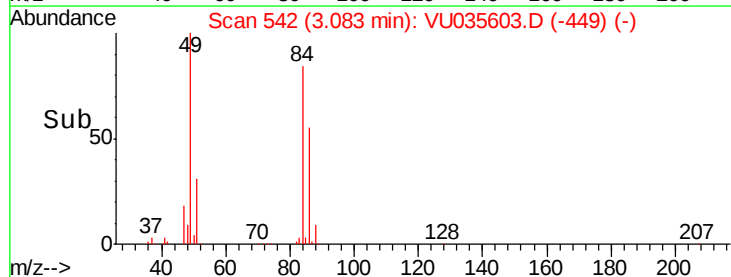
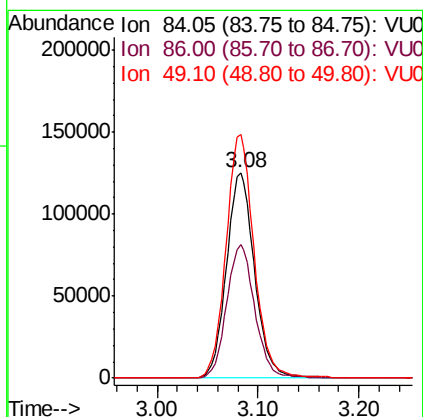
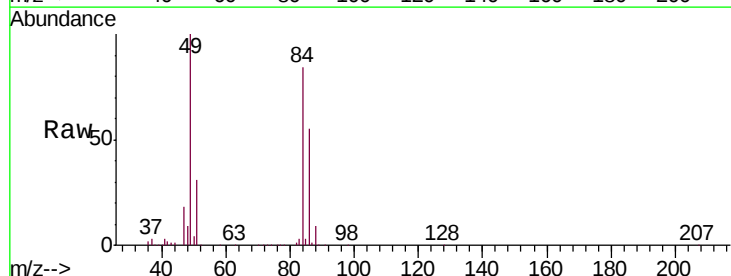
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

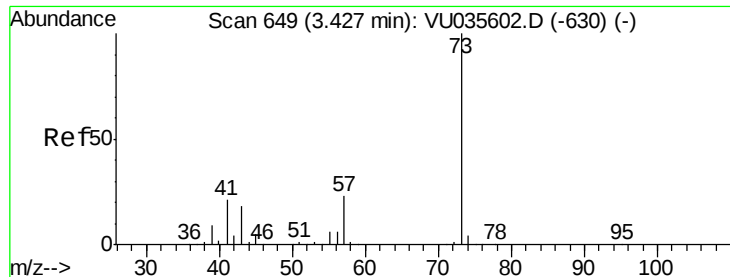
Tgt Ion: 43 Resp: 96289  
Ion Ratio Lower Upper  
43 100  
74 26.5 21.0 31.6



#16  
Methylene chloride  
Concen: 8.026 ug/L  
RT: 3.08 min Scan# 542  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion: 84 Resp: 243601  
Ion Ratio Lower Upper  
84 100  
86 64.8 45.8 85.2  
49 118.5 81.9 152.1

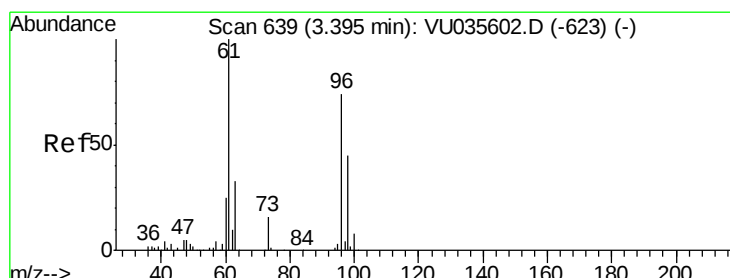
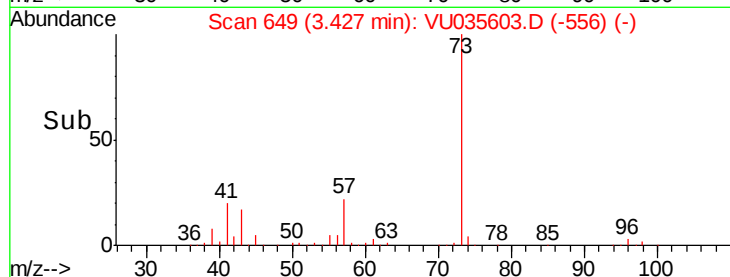
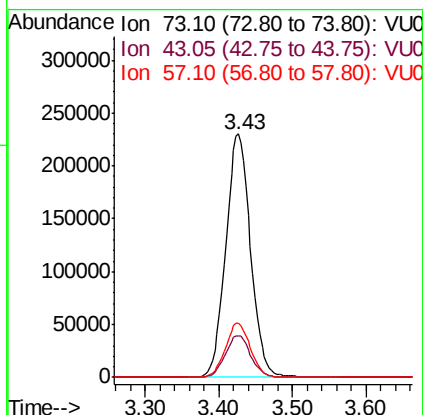
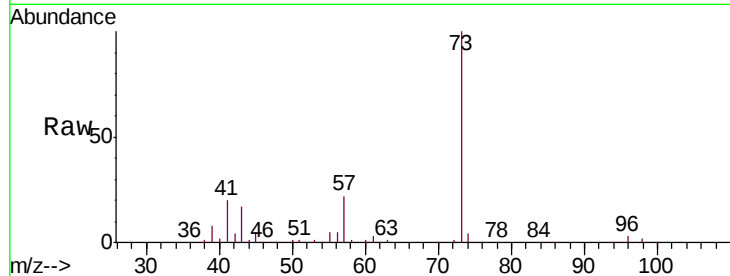




#17  
Methyl tert-butyl Ether  
Concen: 9.402 ug/L  
RT: 3.43 min Scan# 649  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

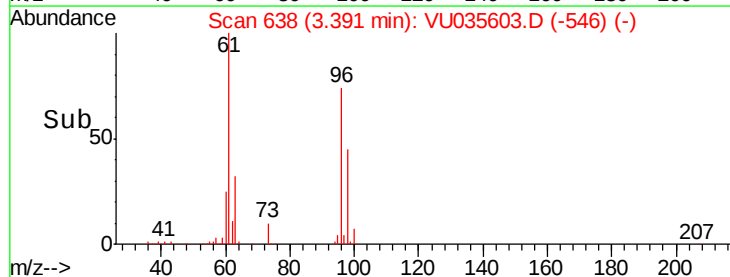
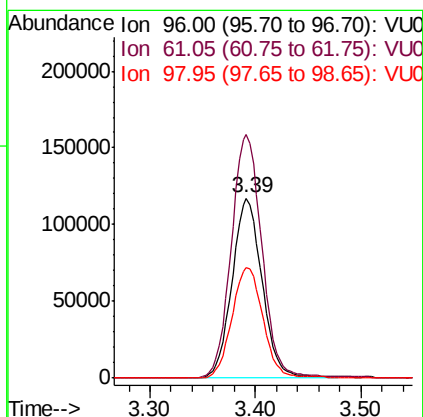
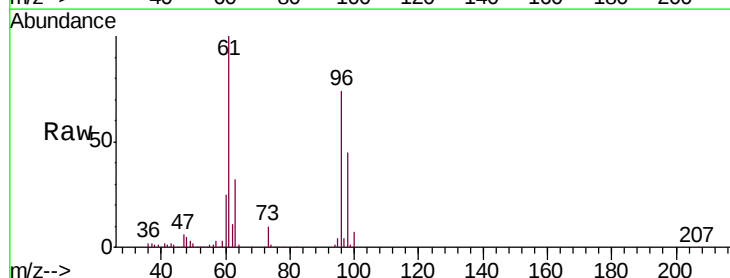
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

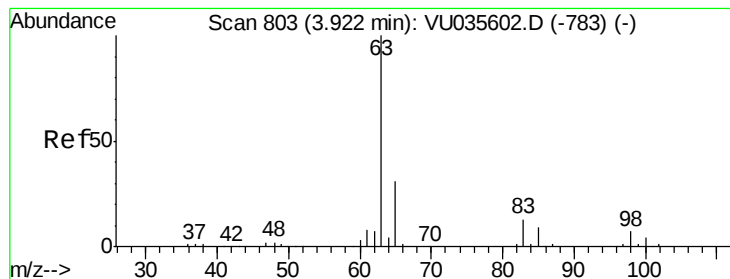
Tgt Ion: 73 Resp: 536216  
Ion Ratio Lower Upper  
73 100  
43 17.4 14.4 21.6  
57 22.4 18.2 27.2



#18  
trans-1,2-Dichloroethene  
Concen: 9.089 ug/L  
RT: 3.39 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion: 96 Resp: 232135  
Ion Ratio Lower Upper  
96 100  
61 135.6 95.0 176.4  
98 61.5 42.5 78.9





#19

1,1-Dichloroethane

Concen: 8.604 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

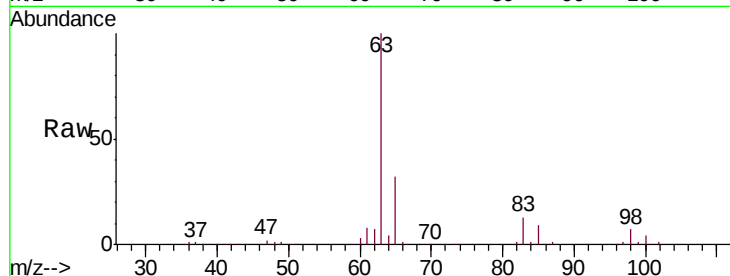
Tgt Ion: 63 Resp: 428635

Ion Ratio Lower Upper

63 100

65 31.8 22.0 40.8

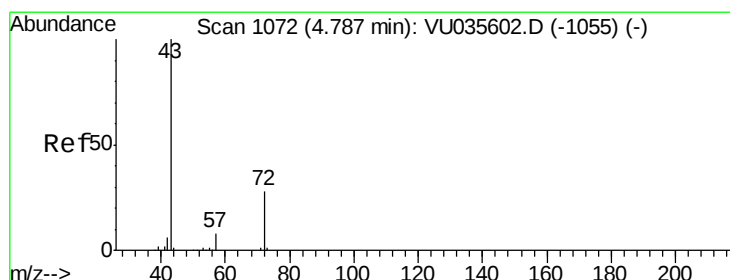
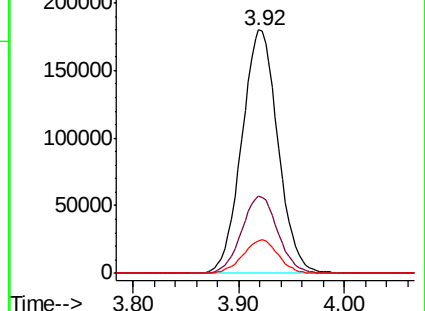
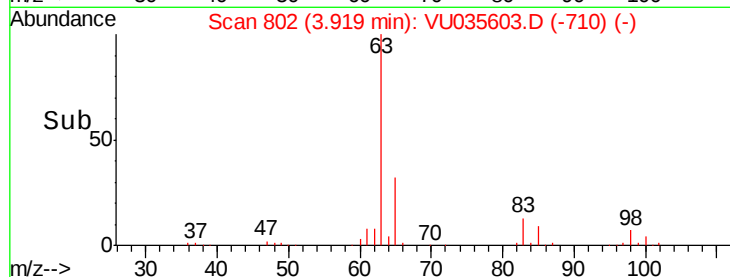
83 13.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU035603.D (-710) (-)

Ion 65.10 (64.80 to 65.80): VU035603.D (-710) (-)

Ion 83.05 (82.75 to 83.75): VU035603.D (-710) (-)



#21

2-Butanone

Concen: 90.954 ug/L

RT: 4.79 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VU035603.D

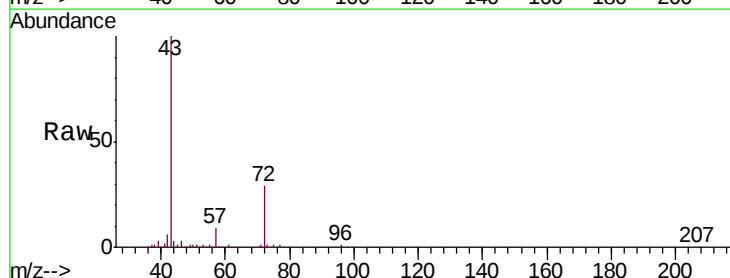
Acq: 04 Nov 2019 11:46

Tgt Ion: 43 Resp: 640647

Ion Ratio Lower Upper

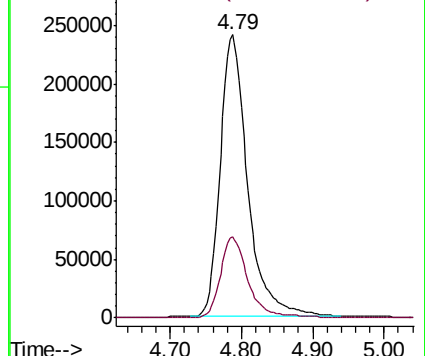
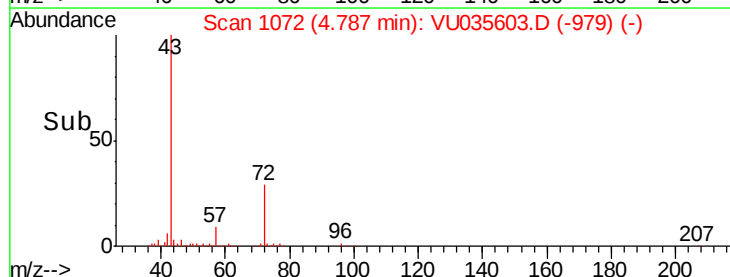
43 100

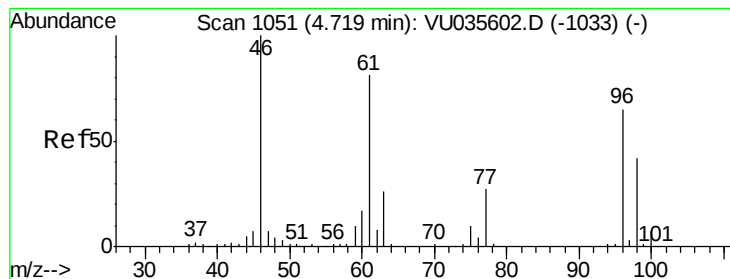
72 28.3 14.3 42.9



Abundance Ion 43.05 (42.75 to 43.75): VU035603.D (-979) (-)

Ion 72.10 (71.80 to 72.80): VU035603.D (-979) (-)





#22

cis-1,2-Dichloroethene

Concen: 9.366 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

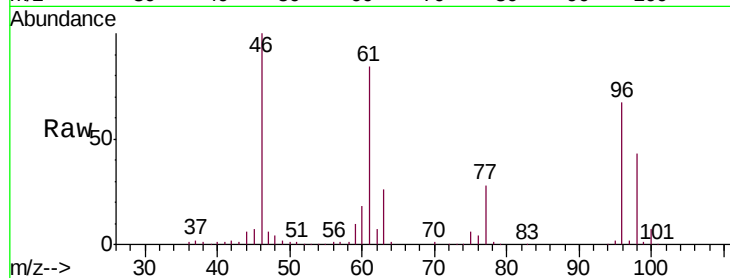
Tgt Ion: 96 Resp: 256814

Ion Ratio Lower Upper

96 100

61 125.9 87.0 161.6

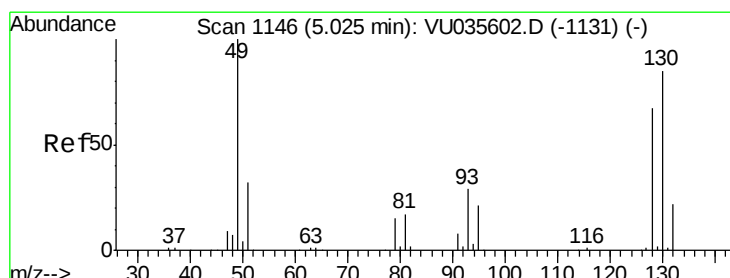
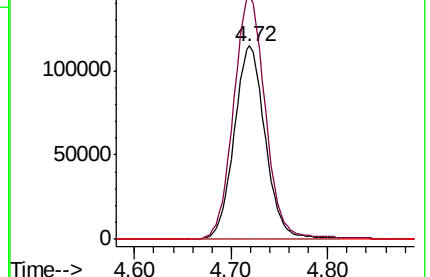
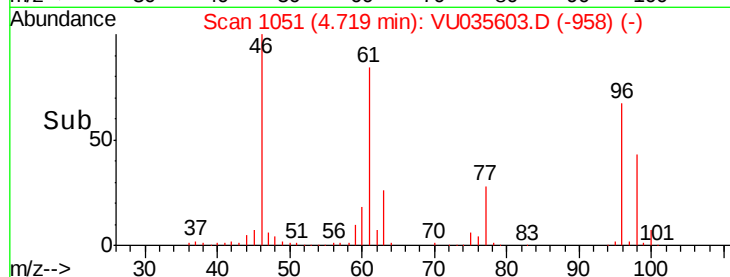
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035603.D (-958) (-)

Ion 61.05 (60.75 to 61.75): VU035603.D (-958) (-)

Ion 68.15 (67.85 to 68.85): VU035603.D (-958) (-)



#23

Bromochloromethane

Concen: 9.316 ug/L

RT: 5.03 min Scan# 1147

Delta R.T. 0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Tgt Ion: 128 Resp: 119138

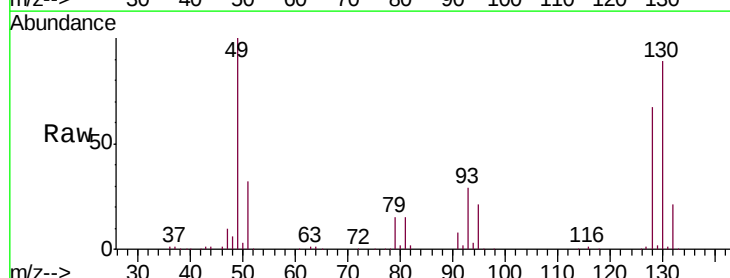
Ion Ratio Lower Upper

128 100

49 148.5 104.1 193.3

130 131.8 88.4 164.2

51 48.0 37.7 56.5

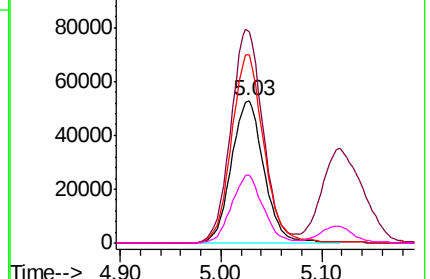
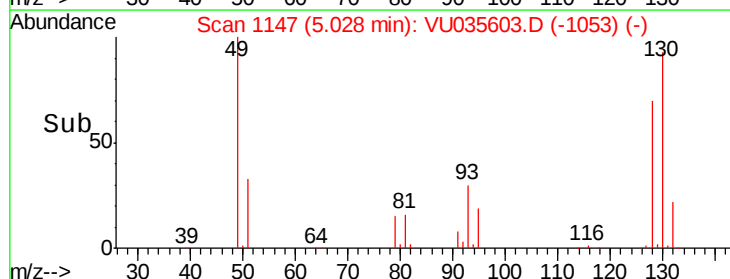


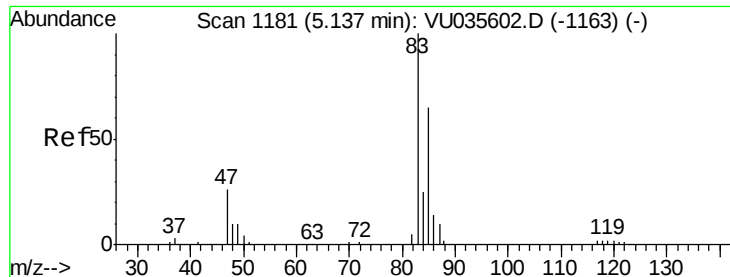
Abundance Ion 127.90 (127.60 to 128.60): VU035603.D (-1053) (-)

Ion 49.10 (48.80 to 49.80): VU035603.D (-1053) (-)

Ion 129.95 (129.65 to 130.65): VU035603.D (-1053) (-)

Ion 51.05 (50.75 to 51.75): VU035603.D (-1053) (-)

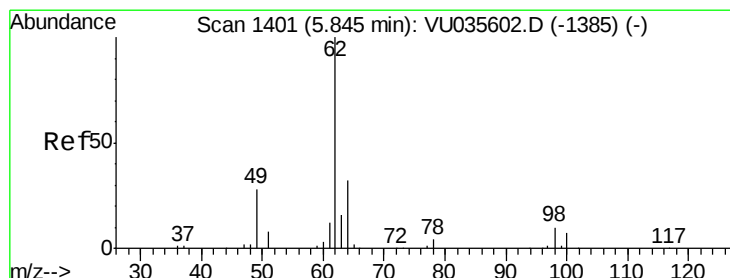
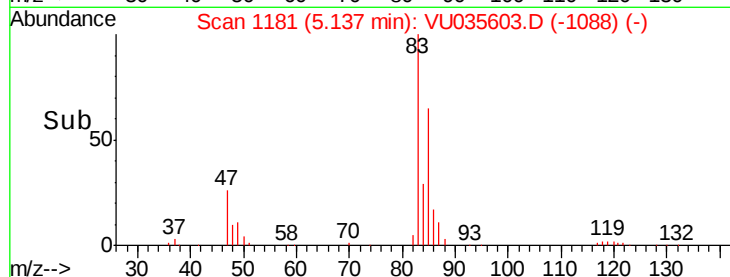
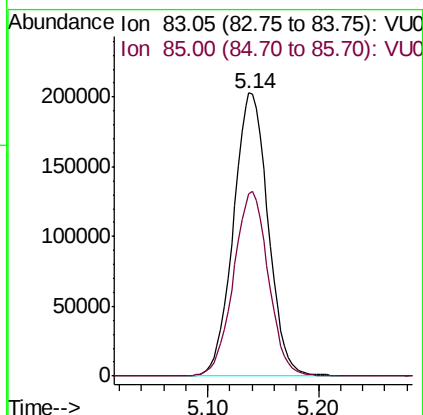
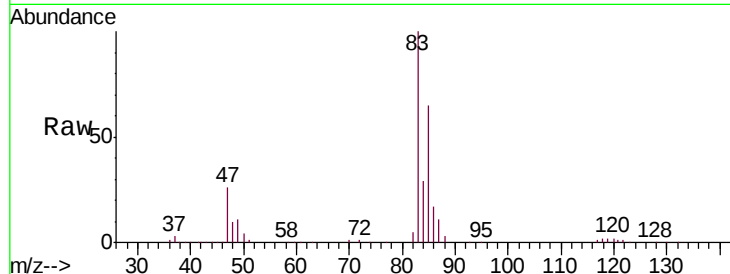




#25  
Chloroform  
Concen: 8.389 ug/L  
RT: 5.14 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

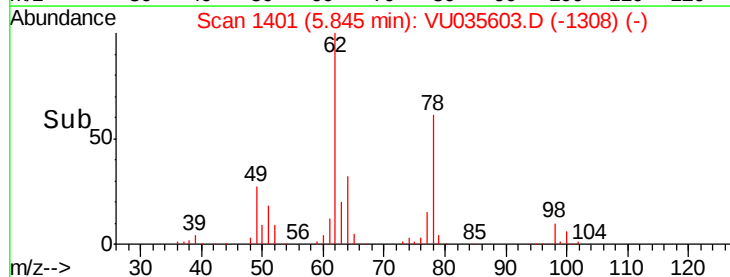
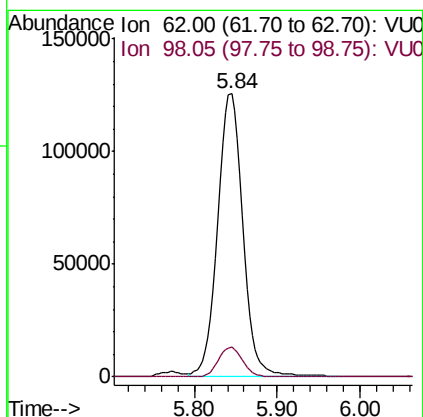
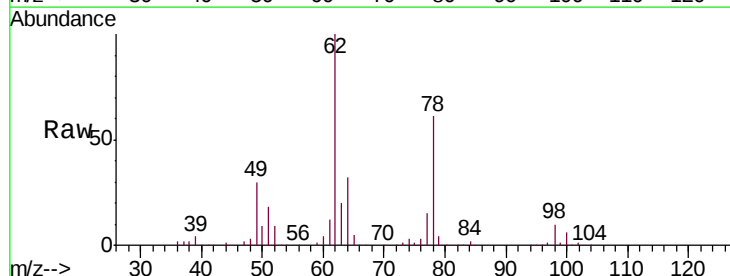
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

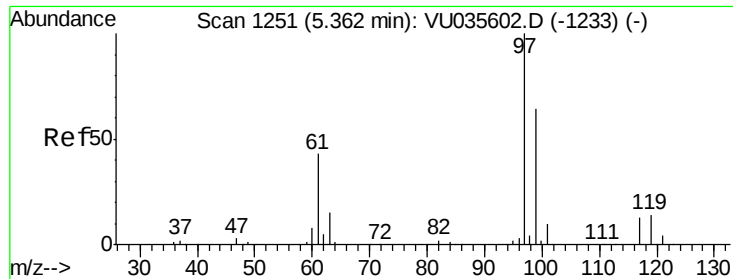
Tgt Ion: 83 Resp: 442081  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.4 84.2



#27  
1,2-Dichloroethane  
Concen: 8.507 ug/L  
RT: 5.84 min Scan# 1401  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion: 62 Resp: 263983  
Ion Ratio Lower Upper  
62 100  
98 10.4 8.0 12.0

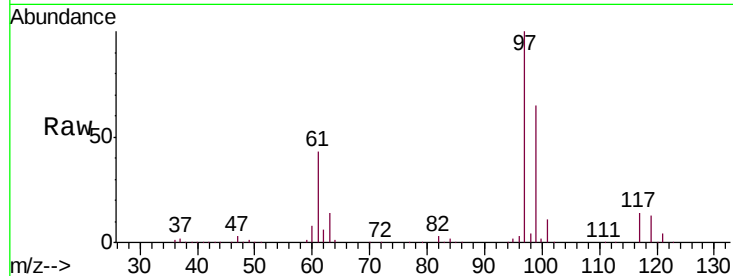




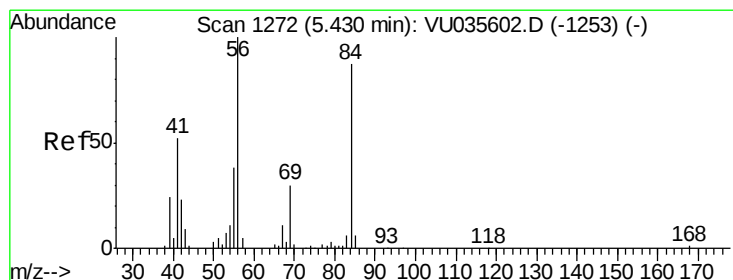
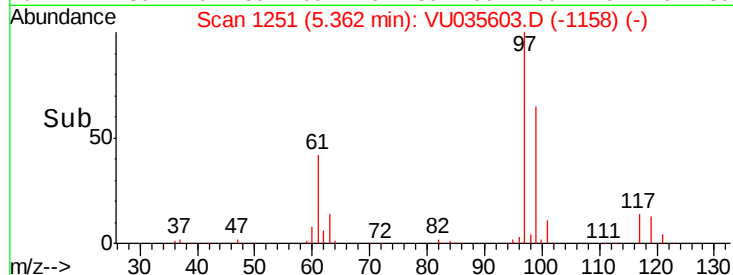
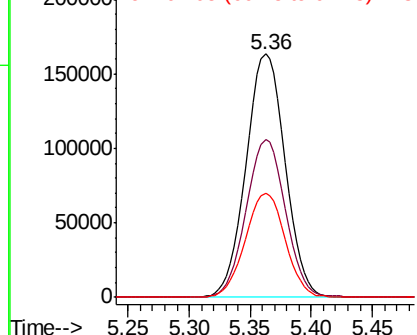
#29  
1,1,1-Trichloroethane  
Concen: 9.173 ug/L  
RT: 5.36 min Scan# 1251  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

Tgt Ion: 97 Resp: 362990  
Ion Ratio Lower Upper  
97 100  
99 65.1 51.3 76.9  
61 43.8 34.4 51.6

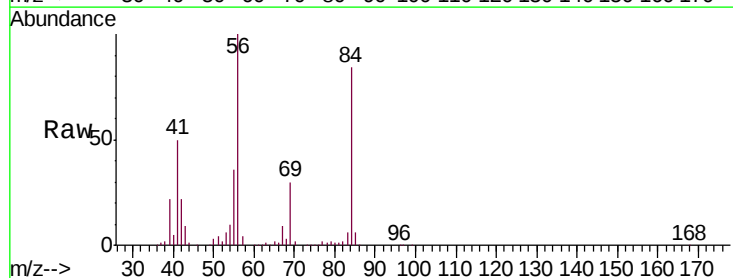


Abundance Ion 96.95 (96.65 to 97.65): VU0  
Ion 99.05 (98.75 to 99.75): VU0  
Ion 61.05 (60.75 to 61.75): VU0

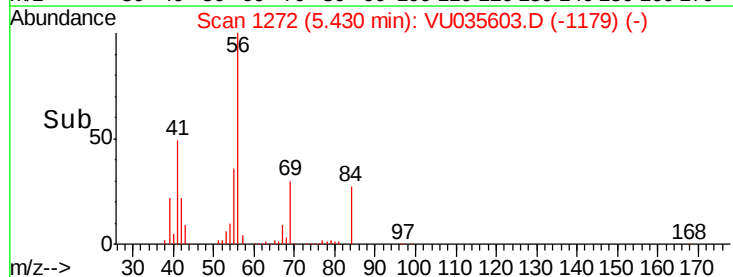
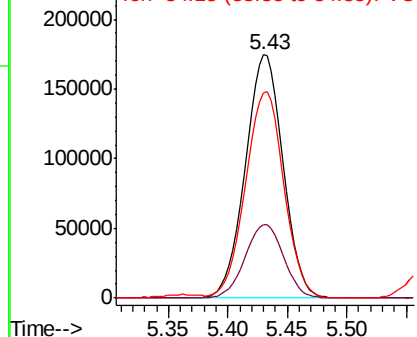


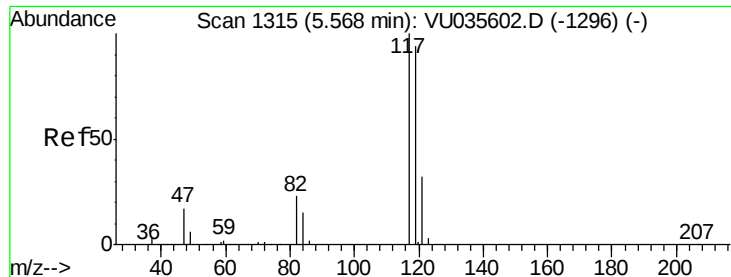
#30  
Cyclohexane  
Concen: 9.550 ug/L  
RT: 5.43 min Scan# 1272  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion: 56 Resp: 383158  
Ion Ratio Lower Upper  
56 100  
69 30.9 24.6 37.0  
84 86.3 69.7 104.5



Abundance Ion 56.10 (55.80 to 56.80): VU0  
Ion 69.15 (68.85 to 69.85): VU0  
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 9.351 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

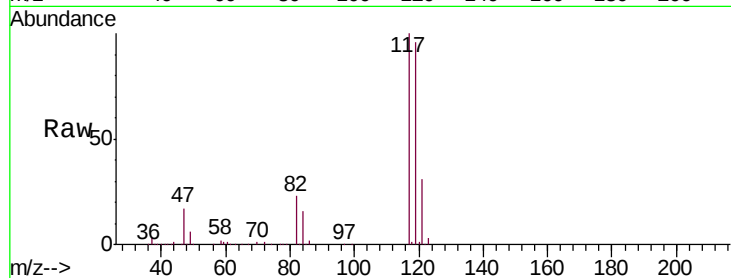
VSTD01005

Tgt Ion:117 Resp: 330538

Ion Ratio Lower Upper

117 100

119 97.0 75.3 112.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

150000

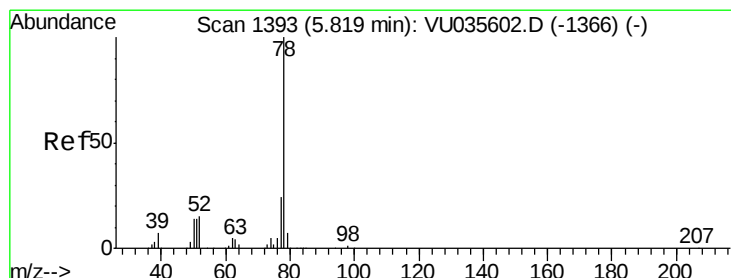
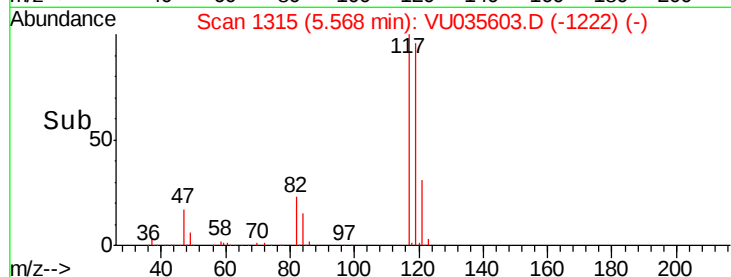
100000

50000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 9.380 ug/L

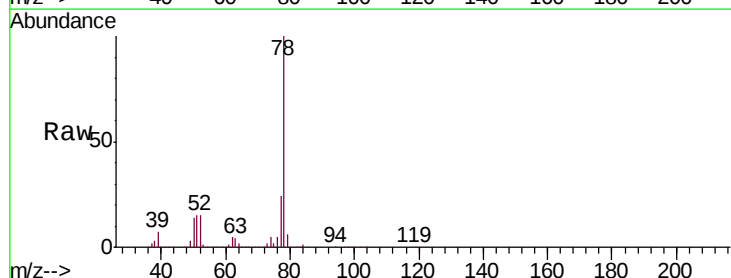
RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Tgt Ion: 78 Resp: 979687



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

500000

400000

300000

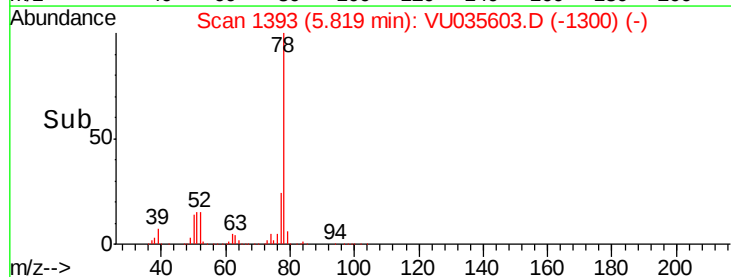
200000

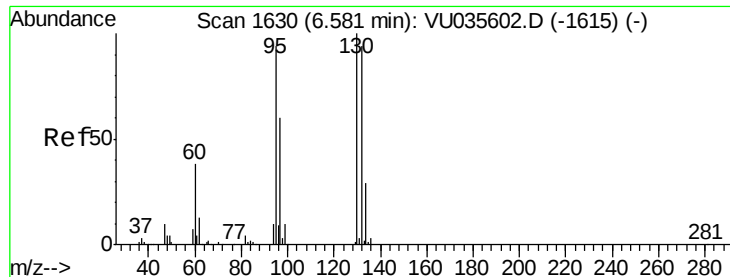
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 9.603 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

Tgt Ion: 95 Resp: 248907

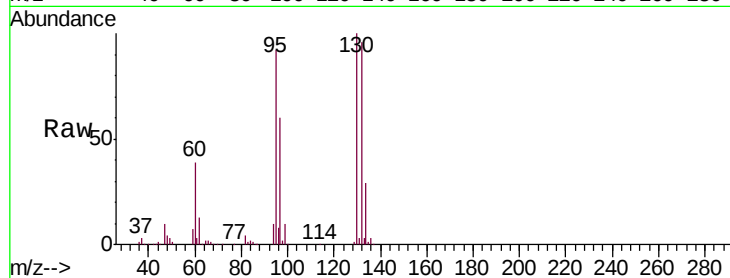
Ion Ratio Lower Upper

95 100

97 65.6 44.5 82.7

132 103.9 69.9 129.7

130 108.4 74.1 137.7

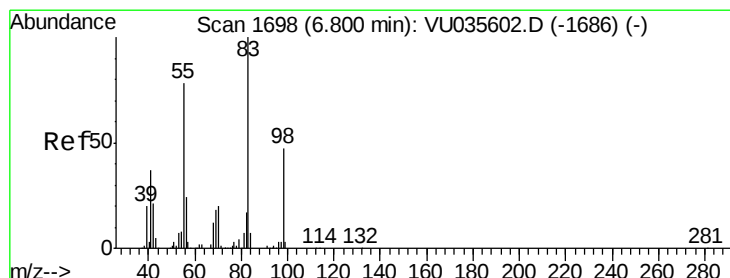
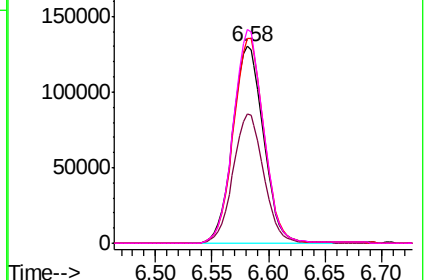
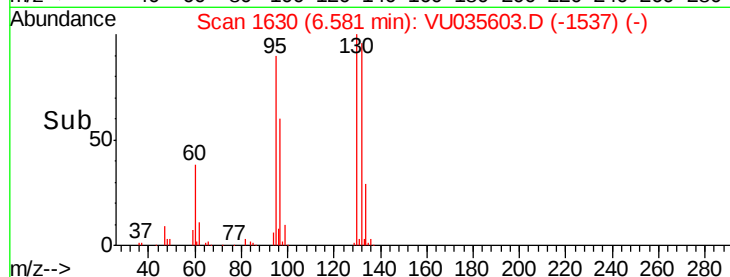


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 10.081 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

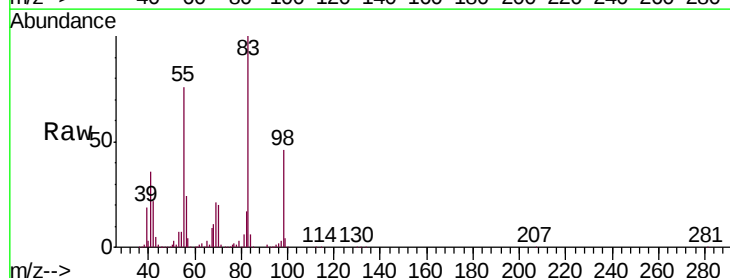
Tgt Ion: 83 Resp: 403965

Ion Ratio Lower Upper

83 100

55 75.3 62.6 93.8

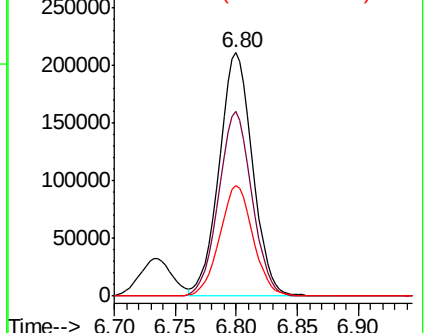
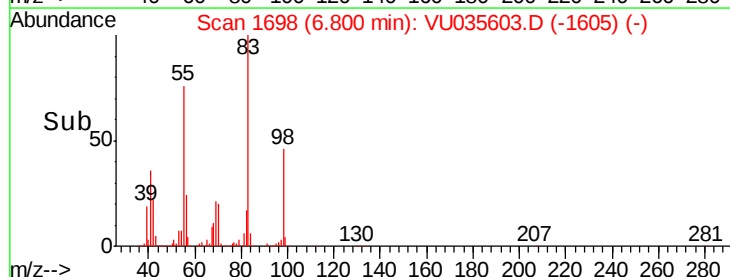
98 45.3 37.2 55.8

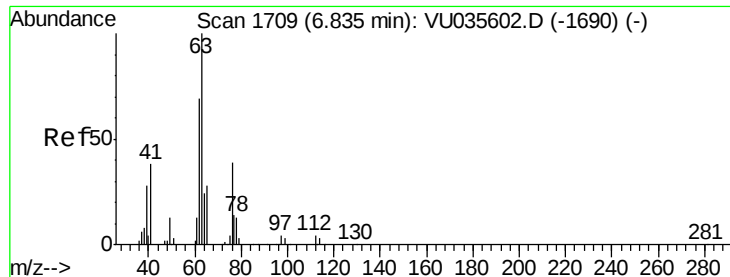


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

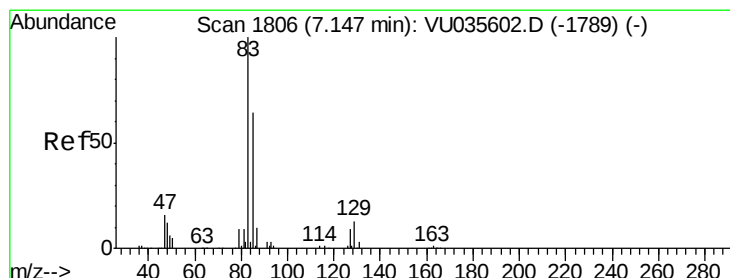
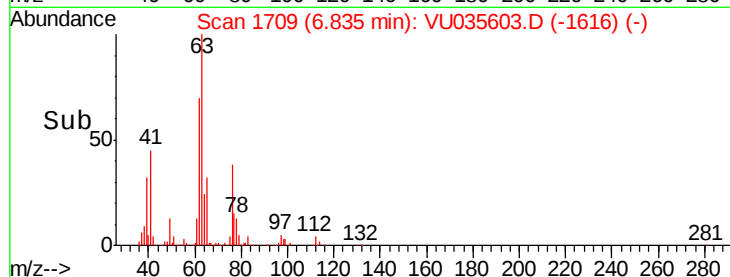
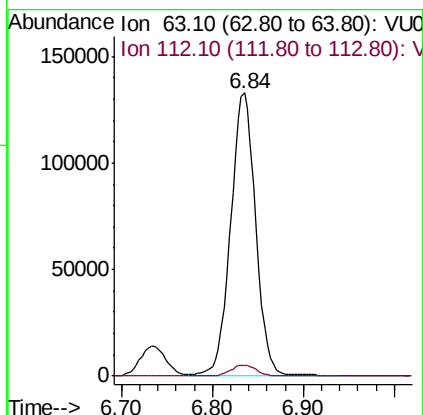
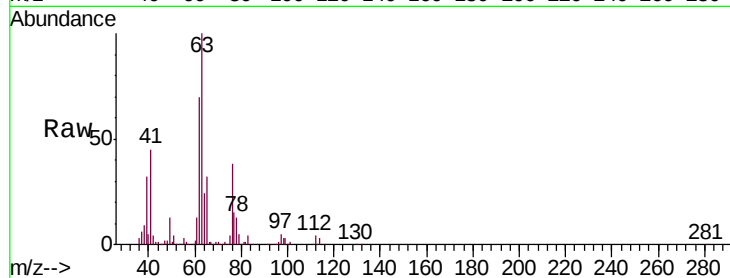




#37  
 1,2-Dichloropropane  
 Concen: 9.121 ug/L  
 RT: 6.84 min Scan# 1709  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

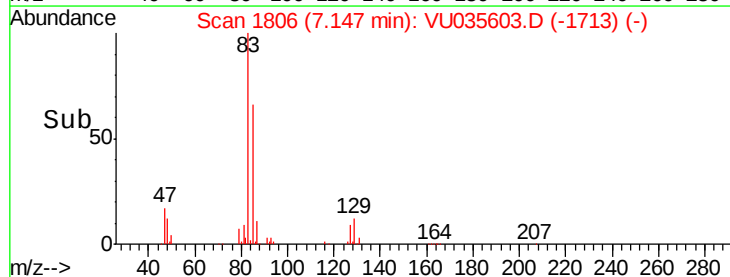
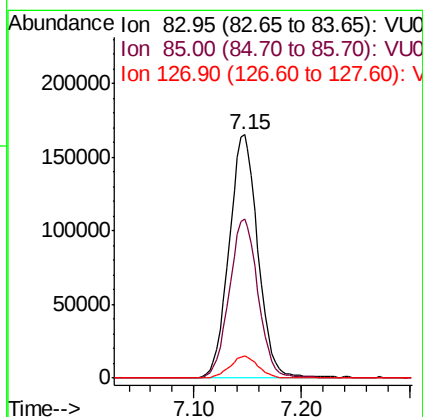
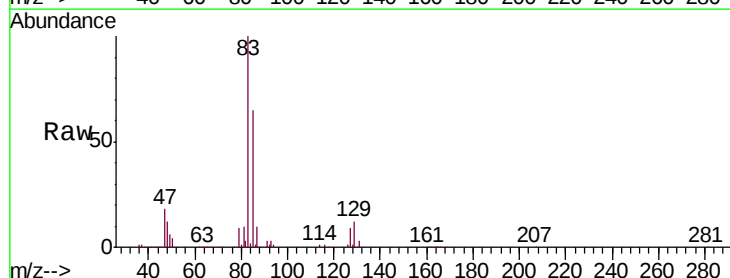
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD01005

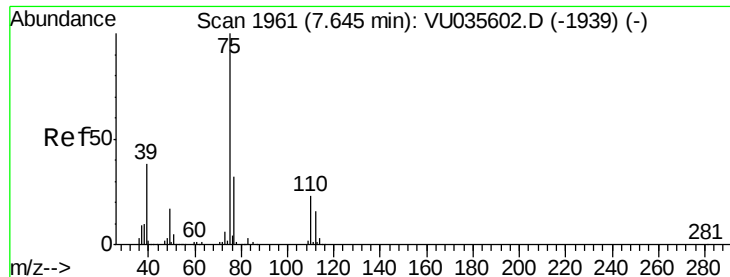
Tgt Ion: 63 Resp: 252053  
 Ion Ratio Lower Upper  
 63 100  
 112 4.0 3.4 5.2



#38  
 Bromodichloromethane  
 Concen: 8.985 ug/L  
 RT: 7.15 min Scan# 1806  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

Tgt Ion: 83 Resp: 307136  
 Ion Ratio Lower Upper  
 83 100  
 85 65.5 44.7 82.9  
 127 9.2 7.1 10.7

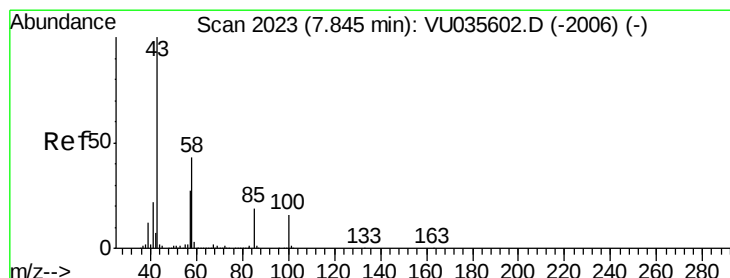
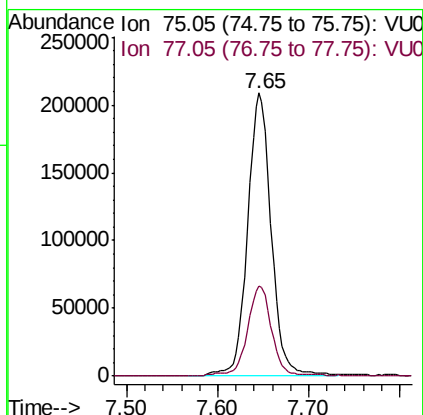
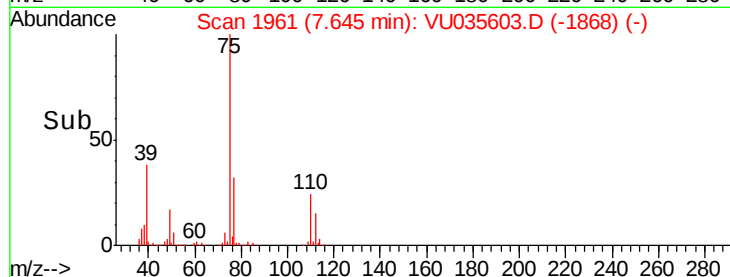
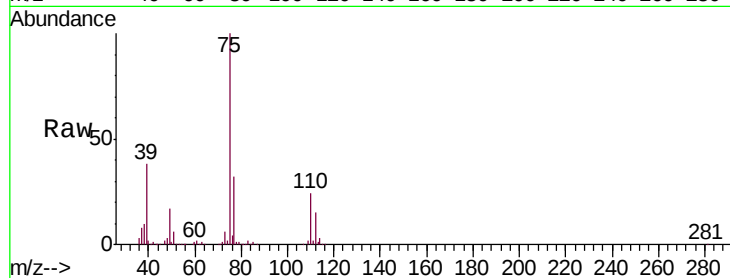




#39  
 cis-1,3-Dichloropropene  
 Concen: 9.785 ug/L  
 RT: 7.65 min Scan# 1961  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

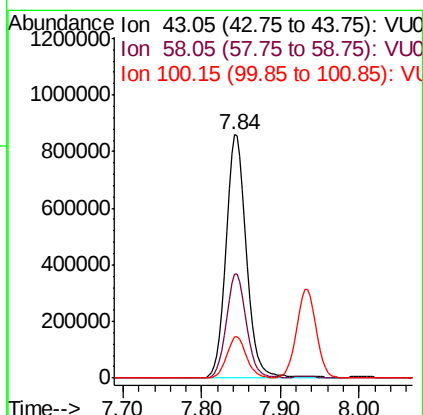
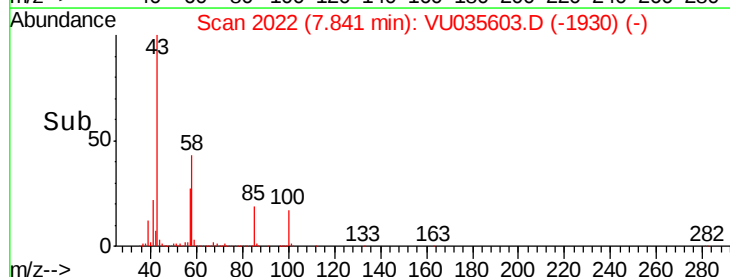
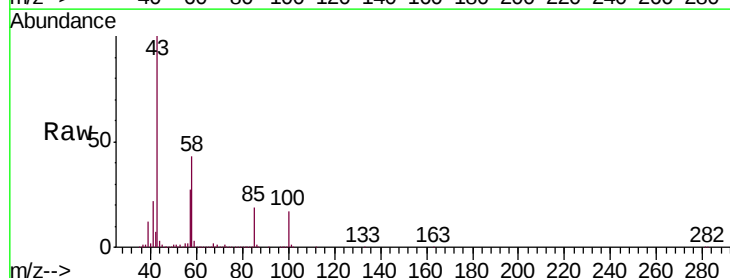
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01005

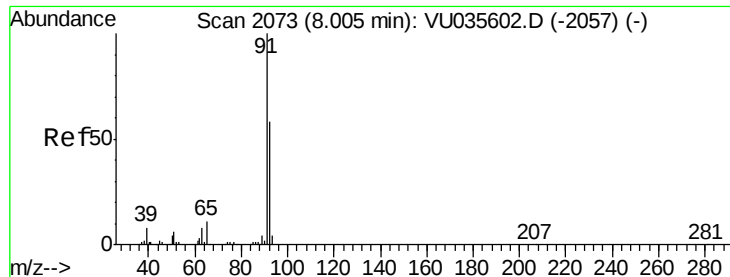
Tgt Ion: 75 Resp: 377261  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 22.5 41.7



#40  
 4-Methyl-2-pentanone  
 Concen: 95.522 ug/L  
 RT: 7.84 min Scan# 2022  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

Tgt Ion: 43 Resp: 1540269  
 Ion Ratio Lower Upper  
 43 100  
 58 42.2 33.4 50.2  
 100 16.5 12.7 19.1





#42

Toluene

Concen: 9.978 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

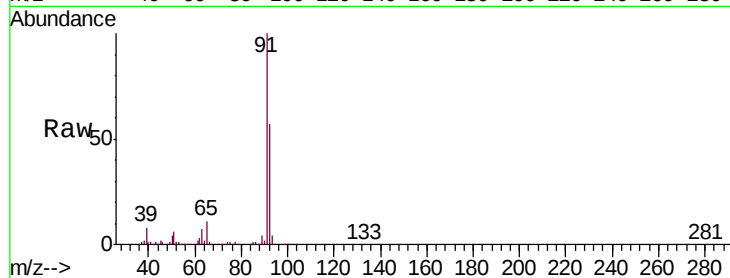
VSTD01005

Tgt Ion: 91 Resp: 1068615

Ion Ratio Lower Upper

91 100

92 57.4 40.5 75.3



Abundance Ion 91.15 (90.85 to 91.85): VU035602.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU035603.D (-1980) (-)

8.01

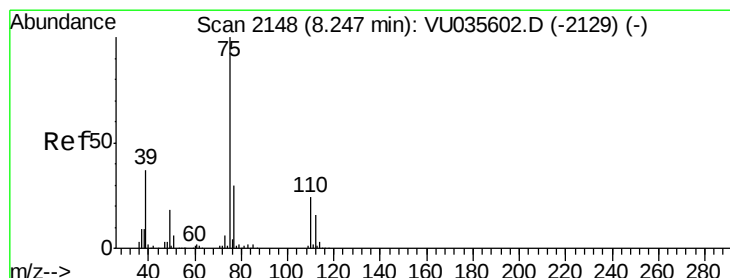
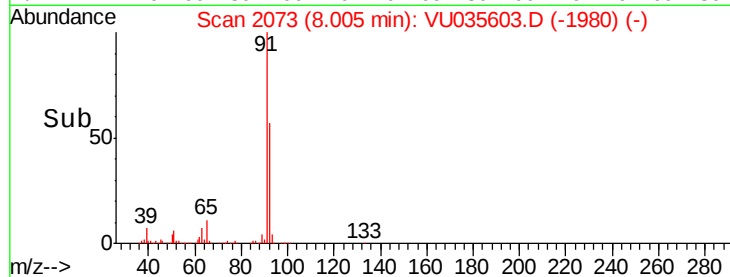
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 9.954 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VU035603.D

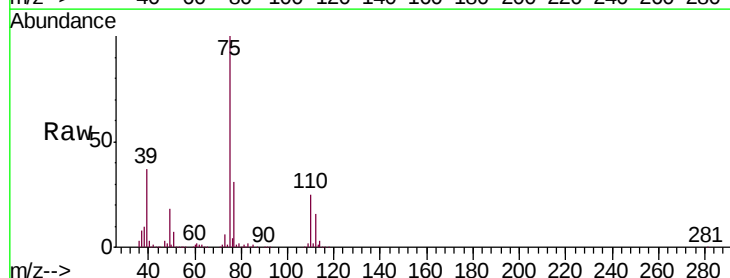
Acq: 04 Nov 2019 11:46

Tgt Ion: 75 Resp: 304720

Ion Ratio Lower Upper

75 100

77 31.0 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU035602.D (-2129) (-)

Ion 77.05 (76.75 to 77.75): VU035603.D (-2055) (-)

8.25

200000

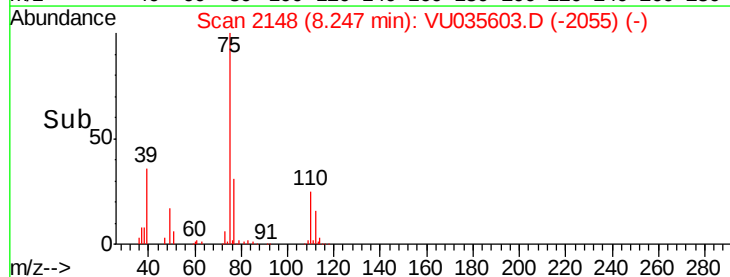
150000

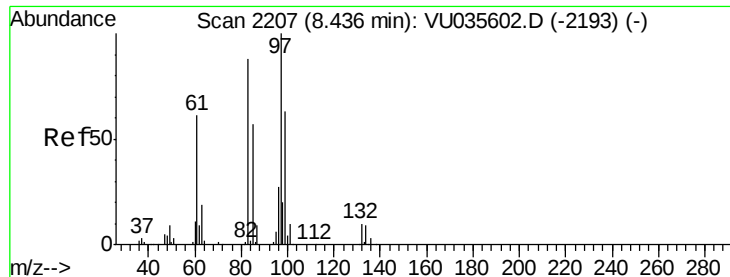
100000

50000

0

Time-->

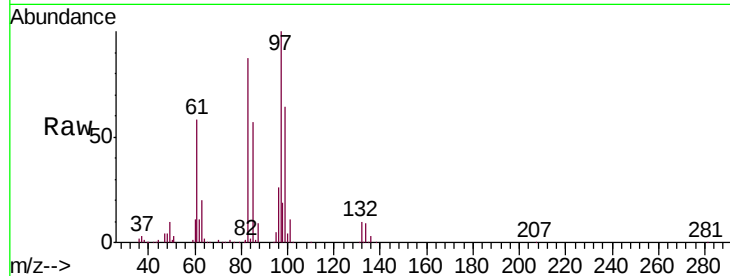




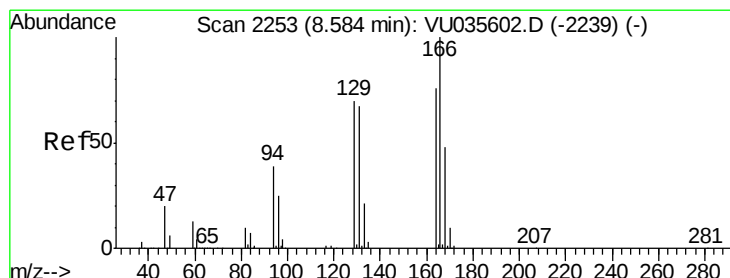
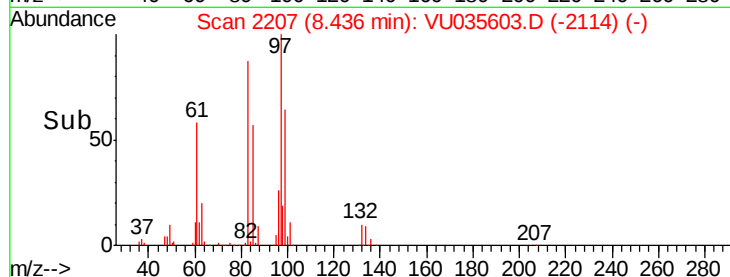
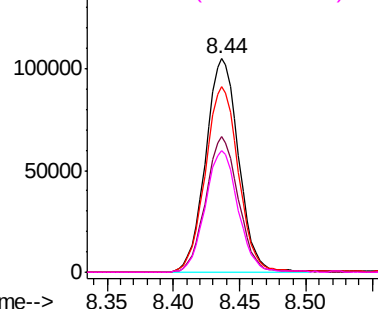
#45  
 1,1,2-Trichloroethane  
 Concen: 9.394 ug/L  
 RT: 8.44 min Scan# 2207  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01005

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 181840 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.5  | 43.8  | 81.4   |
| 83       | 87.2  | 61.6  | 114.4  |
| 85       | 57.2  | 40.0  | 74.4   |

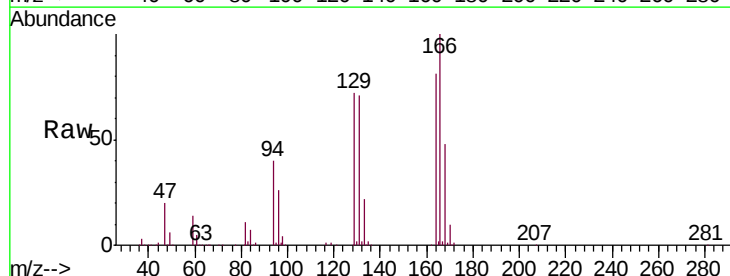


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

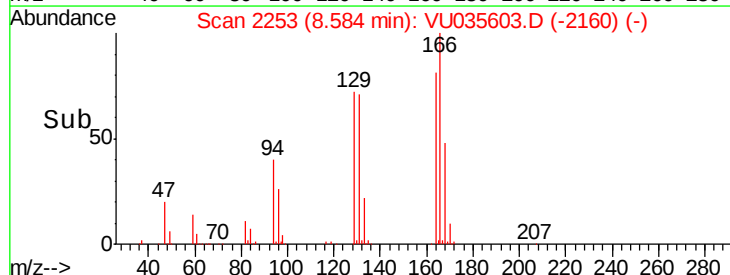
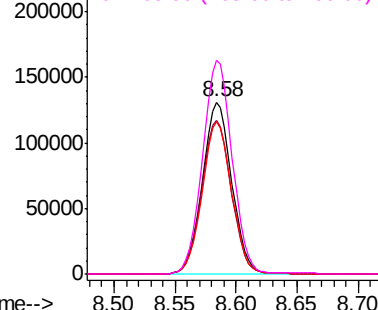


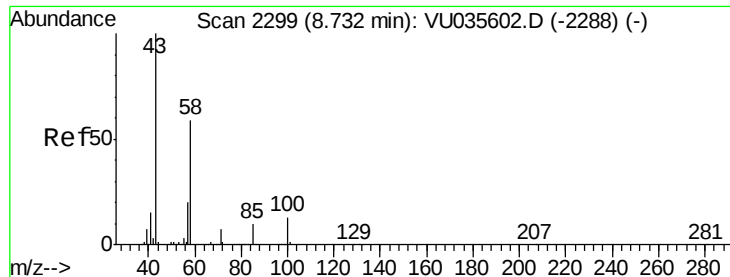
#47  
 Tetrachloroethene  
 Concen: 10.151 ug/L  
 RT: 8.58 min Scan# 2253  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 219664 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 89.2  | 64.7  | 120.1  |
| 131      | 88.5  | 61.6  | 114.4  |
| 166      | 124.1 | 91.8  | 170.4  |



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

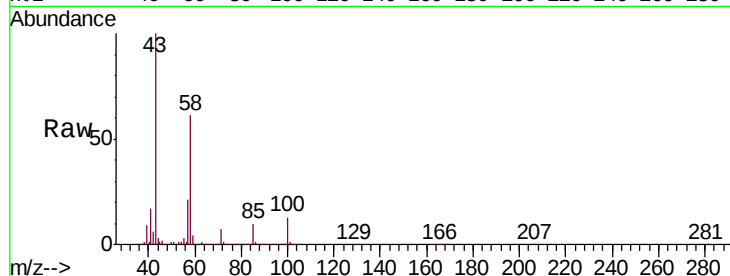




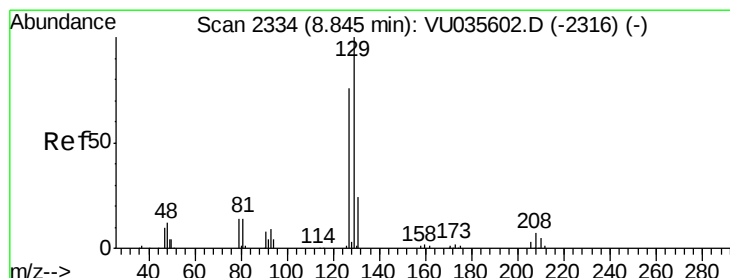
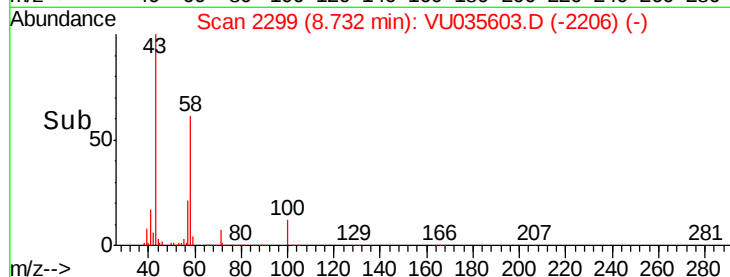
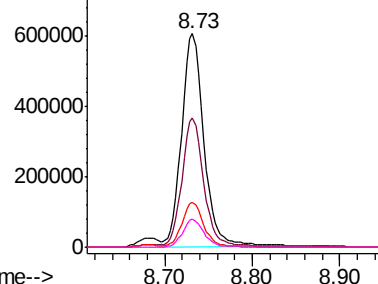
#48  
2-Hexanone  
Concen: 99.411 ug/L  
RT: 8.73 min Scan# 2299  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

Tgt Ion: 43 Resp: 1078815  
Ion Ratio Lower Upper  
43 100  
58 59.1 44.1 66.1  
57 20.2 15.1 22.7  
100 13.0 9.4 14.2

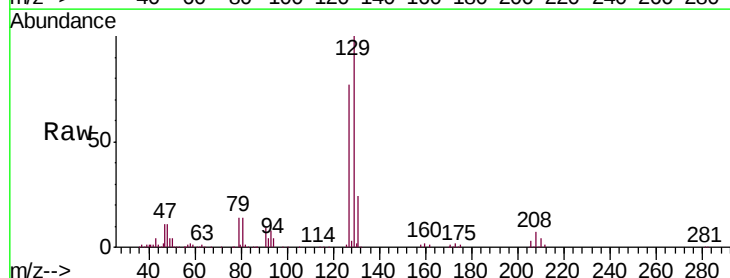


Abundance Ion 43.05 (42.75 to 43.75): VU035603.D (-2206) (-)  
Ion 58.05 (57.75 to 58.75): VU035603.D (-2206) (-)  
Ion 57.20 (56.90 to 57.90): VU035603.D (-2206) (-)  
Ion 100.15 (99.85 to 100.85): VU035603.D (-2206) (-)

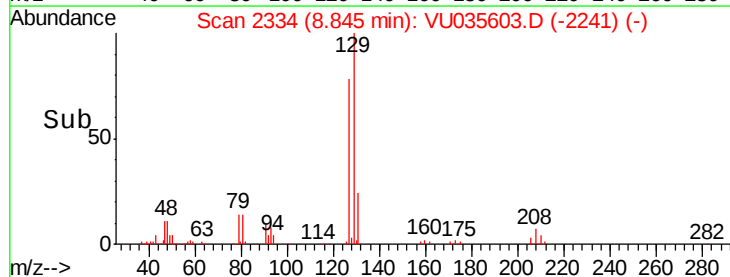
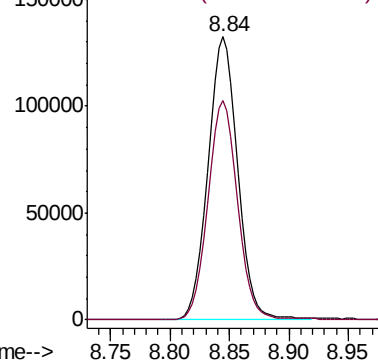


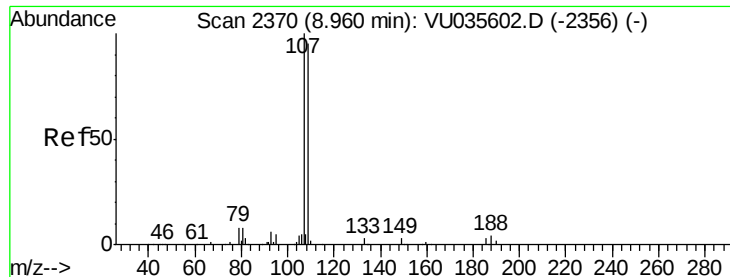
#49  
Dibromochloromethane  
Concen: 9.959 ug/L  
RT: 8.84 min Scan# 2334  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion: 129 Resp: 227867  
Ion Ratio Lower Upper  
129 100  
127 77.5 53.1 98.5



Abundance Ion 128.95 (128.65 to 129.65): VU035603.D (-2241) (-)  
Ion 126.90 (126.60 to 127.60): VU035603.D (-2241) (-)

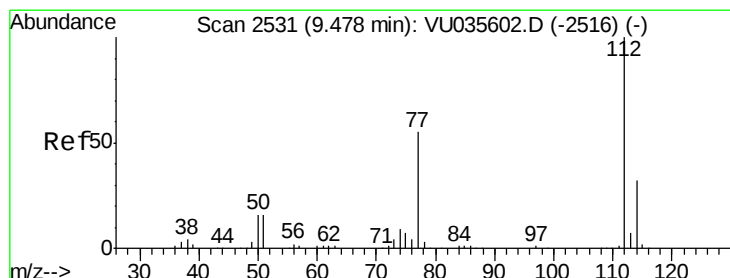
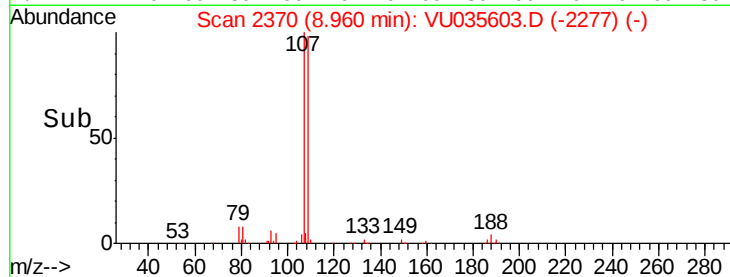
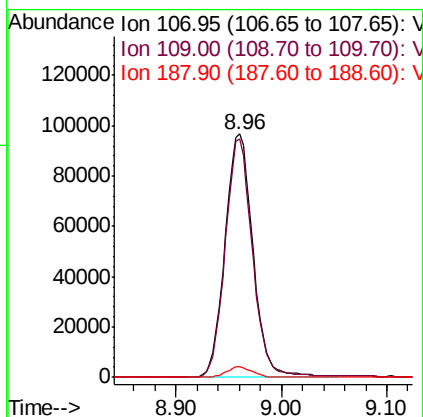
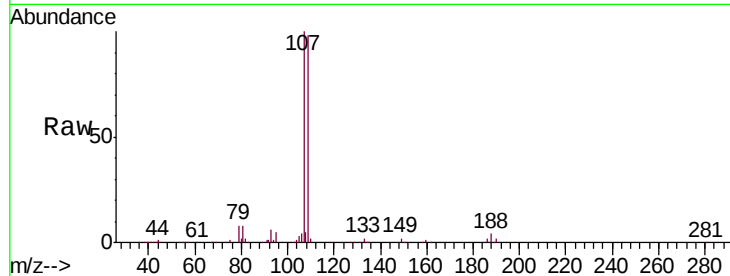




#50  
1,2-Dibromoethane  
Concen: 9.873 ug/L  
RT: 8.96 min Scan# 2370  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

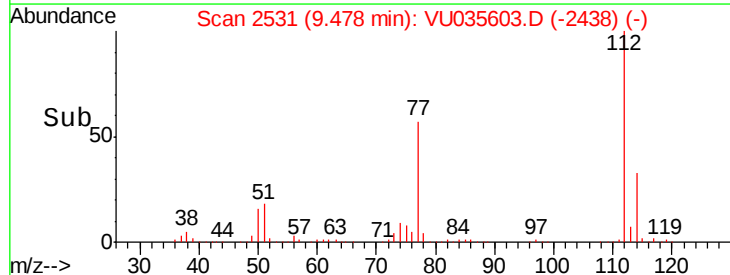
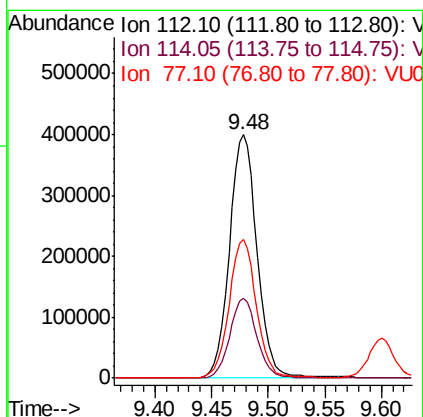
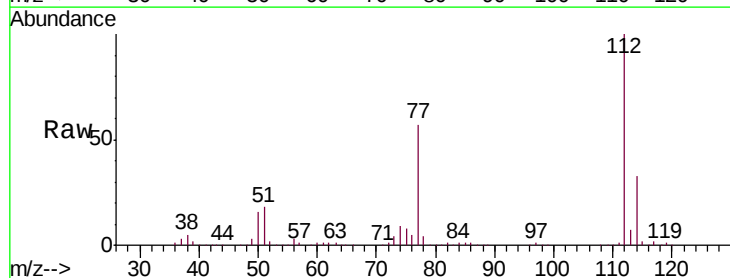
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

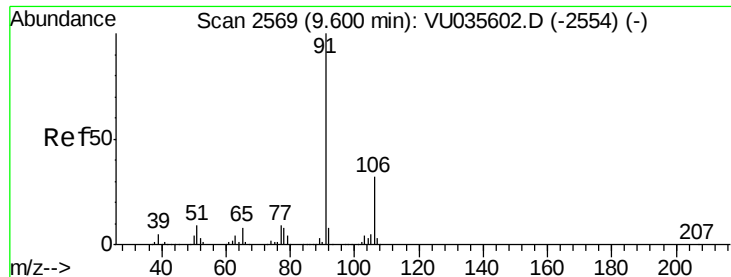
Tgt Ion:107 Resp: 177793  
Ion Ratio Lower Upper  
107 100  
109 97.9 66.5 123.5  
188 4.3 3.1 4.7



#51  
Chlorobenzene  
Concen: 9.887 ug/L  
RT: 9.48 min Scan# 2531  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion:112 Resp: 676657  
Ion Ratio Lower Upper  
112 100  
114 33.0 22.3 41.5  
77 56.8 44.3 66.5





#52

Ethylbenzene

Concen: 10.207 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

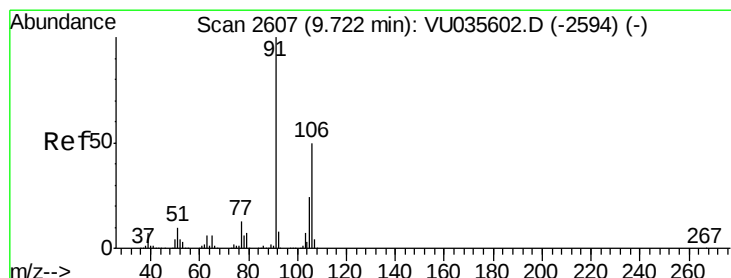
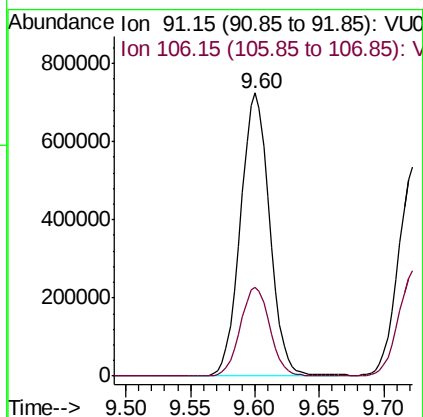
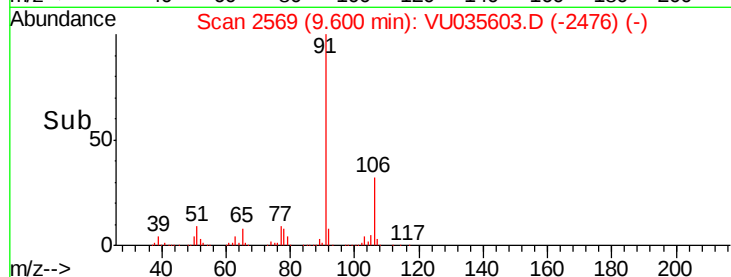
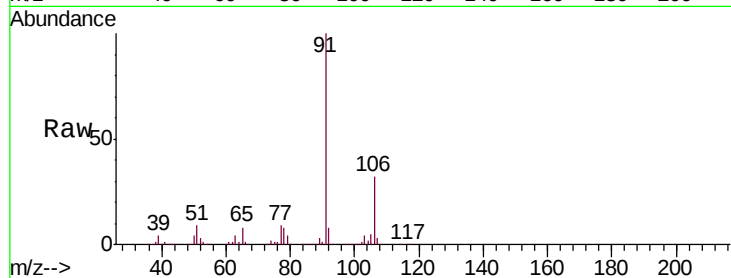
VSTD01005

Tgt Ion: 91 Resp: 1142240

Ion Ratio Lower Upper

91 100

106 31.6 22.4 41.6



#53

m,p-Xylene

Concen: 10.753 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035603.D

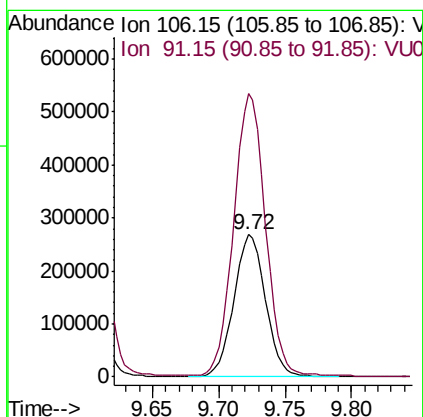
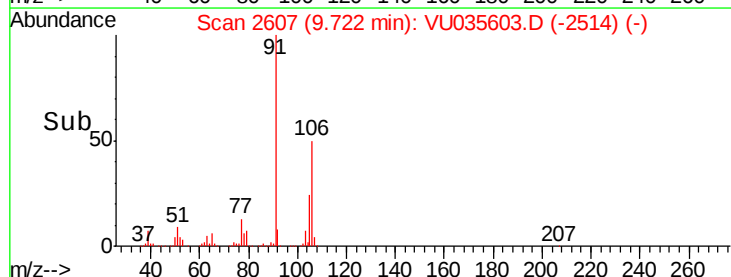
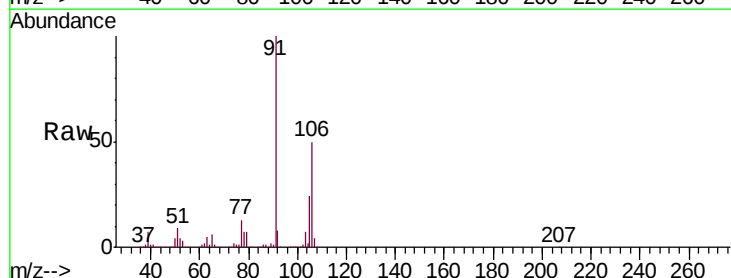
Acq: 04 Nov 2019 11:46

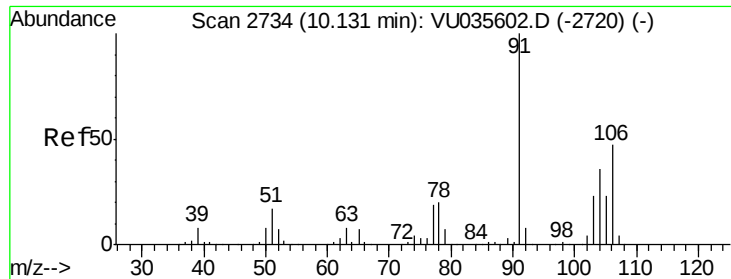
Tgt Ion: 106 Resp: 441620

Ion Ratio Lower Upper

106 100

91 199.0 139.4 259.0

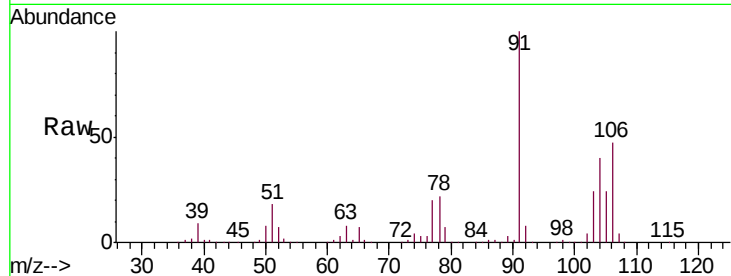




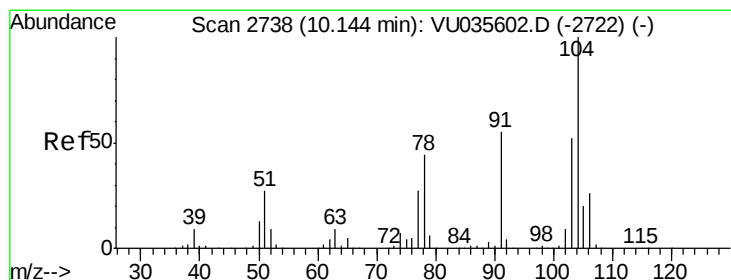
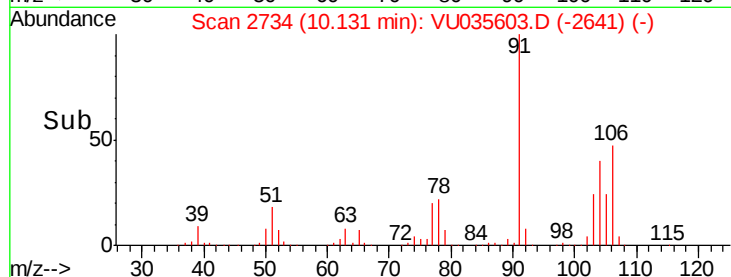
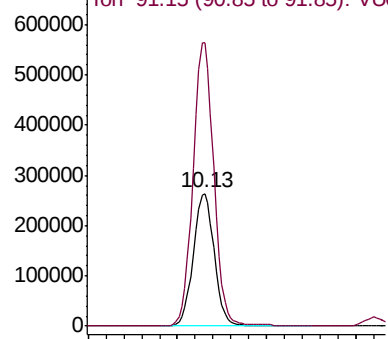
#54  
o-Xylene  
Concen: 10.736 ug/L  
RT: 10.13 min Scan# 2734  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD01005

Tgt Ion:106 Resp: 430491  
Ion Ratio Lower Upper  
106 100  
91 213.1 147.7 274.3

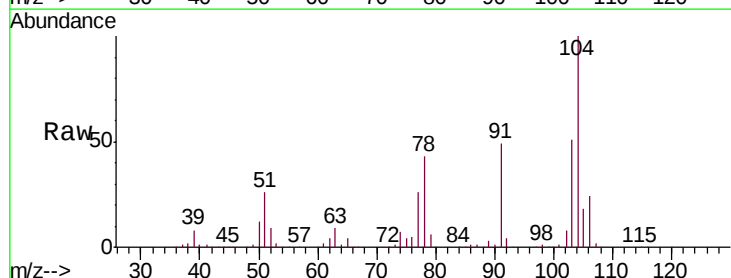


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

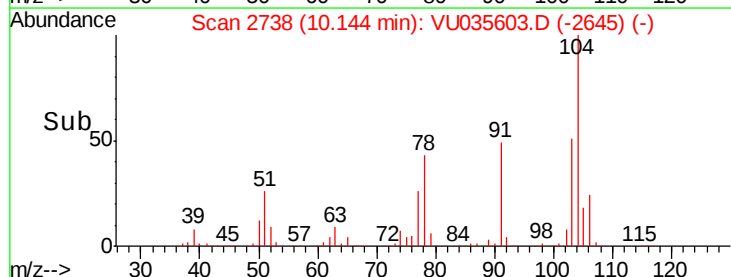
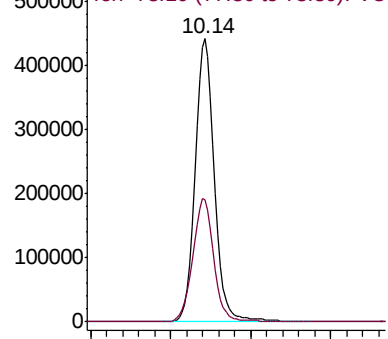


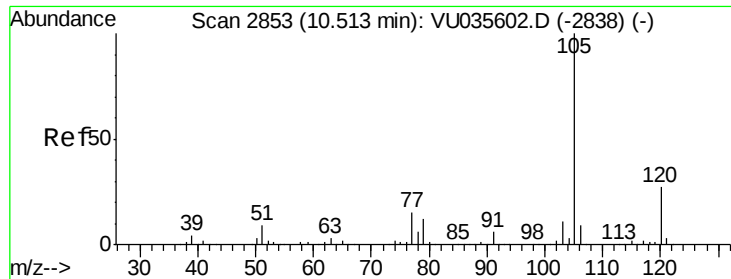
#55  
Styrene  
Concen: 11.252 ug/L  
RT: 10.14 min Scan# 2738  
Delta R.T. -0.00 min  
Lab File: VU035603.D  
Acq: 04 Nov 2019 11:46

Tgt Ion:104 Resp: 736162  
Ion Ratio Lower Upper  
104 100  
78 43.3 30.8 57.2



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





#56

Isopropylbenzene

Concen: 10.794 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

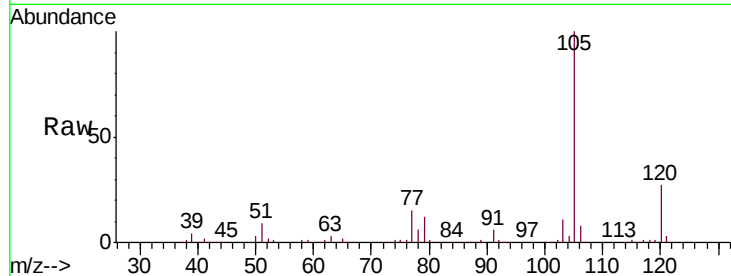
Tgt Ion:105 Resp: 1132351

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

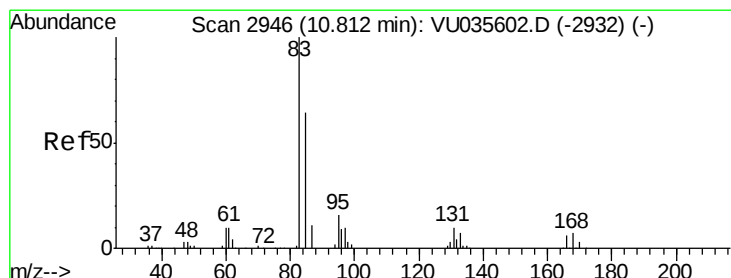
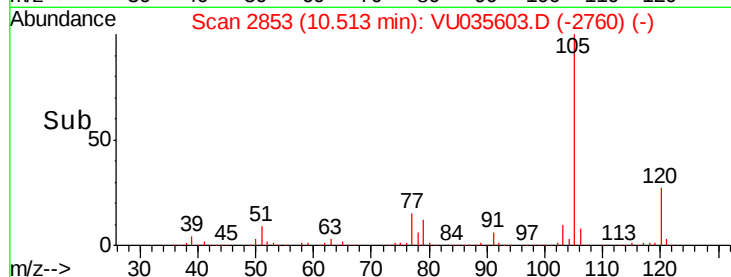
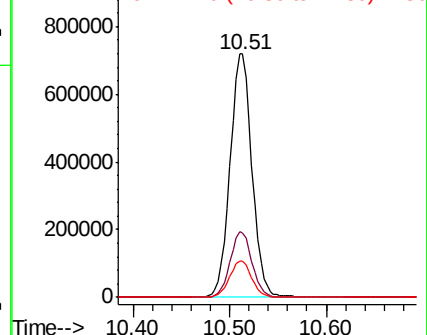
77 15.1 11.8 17.8



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: 9.462 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

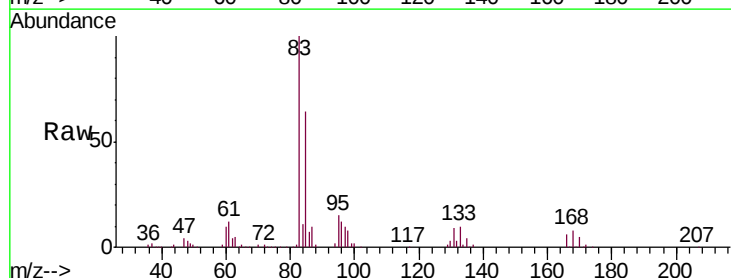
Tgt Ion: 83 Resp: 238188

Ion Ratio Lower Upper

83 100

85 64.1 45.2 84.0

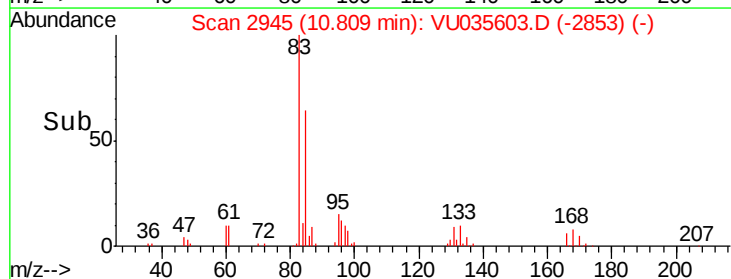
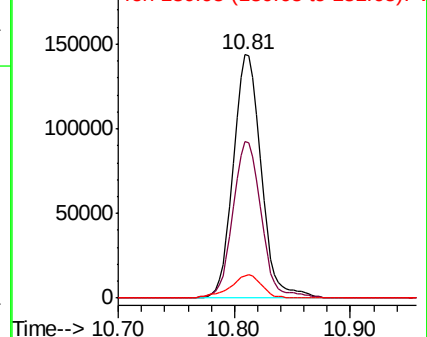
131 9.3 8.2 12.4

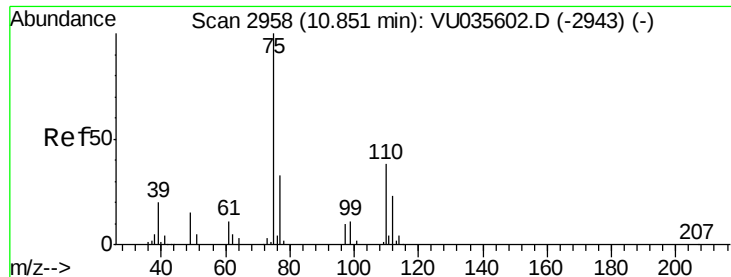


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 9.381 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

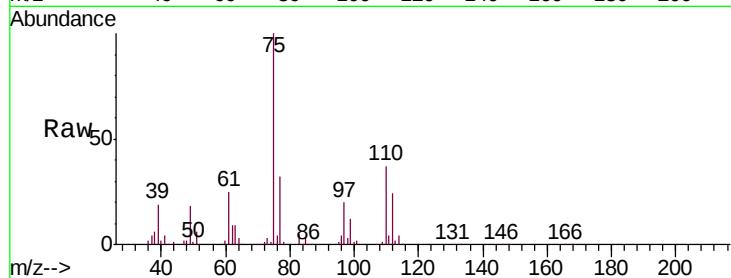
VSTD01005

Tgt Ion: 75 Resp: 167714

Ion Ratio Lower Upper

75 100

77 33.1 26.8 40.2

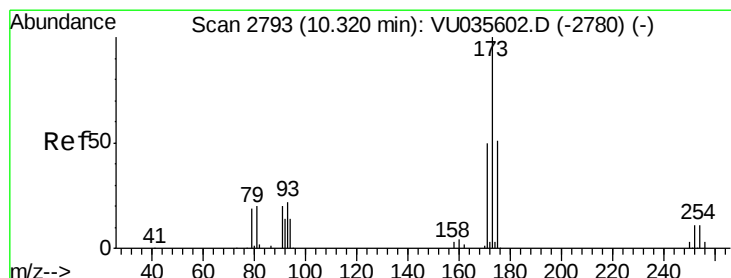
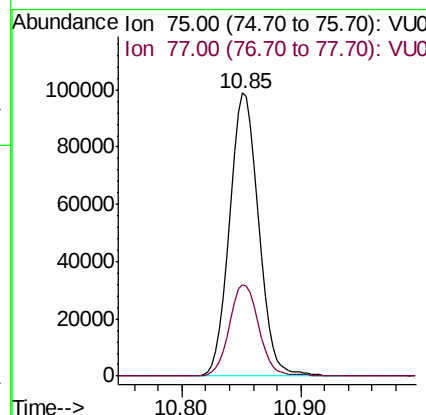
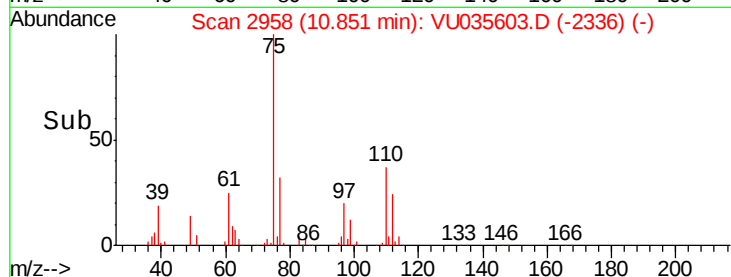


Abundance Ion 75.00 (74.70 to 75.70): VU035602.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU035602.D (-2943) (-)

10.85

Time-->



#61

Bromoform

Concen: 8.731 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

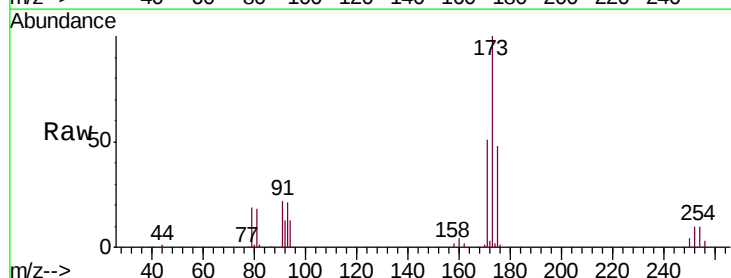
Tgt Ion: 173 Resp: 141418

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

254 10.3 8.5 12.7



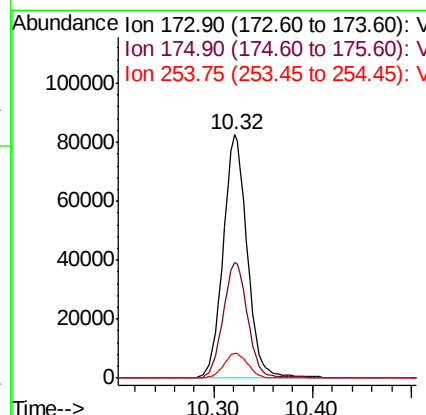
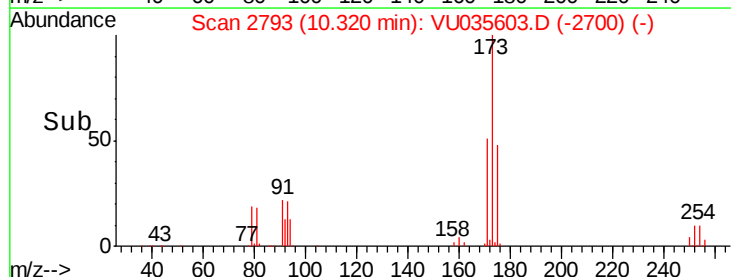
Abundance Ion 172.90 (172.60 to 173.60): VU035602.D (-2780) (-)

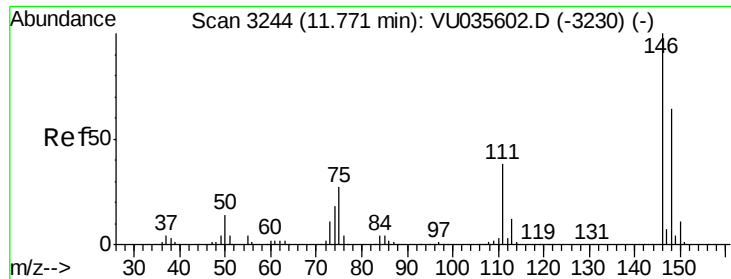
Ion 174.90 (174.60 to 175.60): VU035602.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU035602.D (-2780) (-)

10.32

Time-->

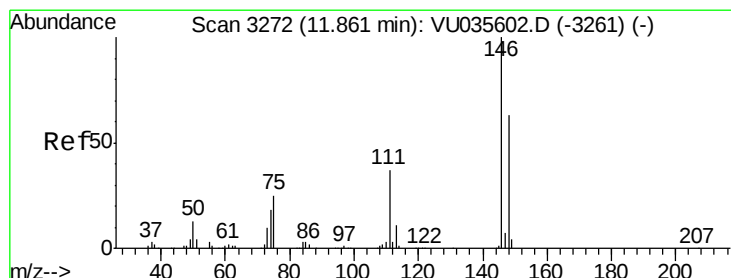
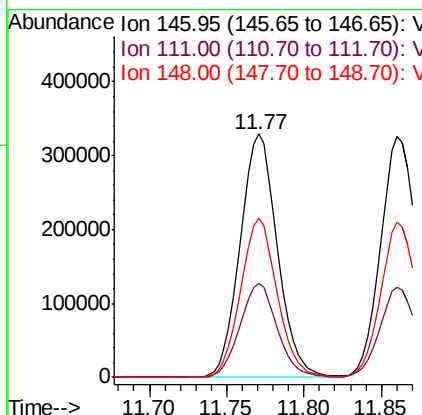
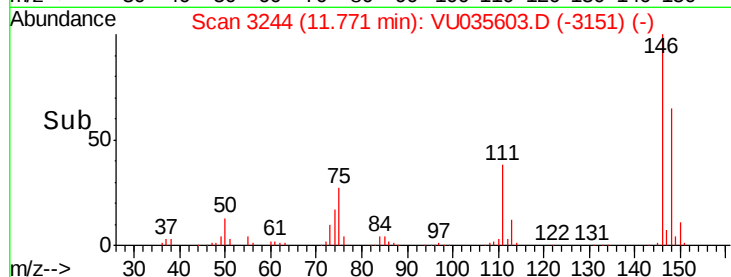
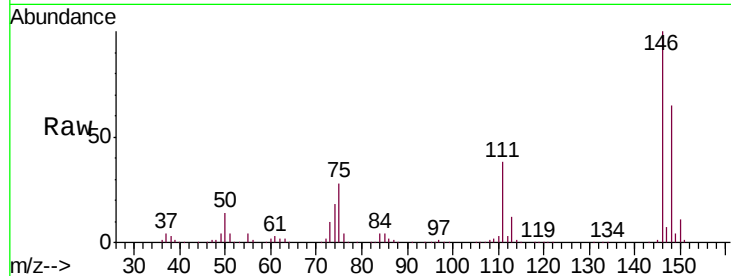




#62  
 1,3-Dichlorobenzene  
 Concen: 9.739 ug/L  
 RT: 11.77 min Scan# 3244  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

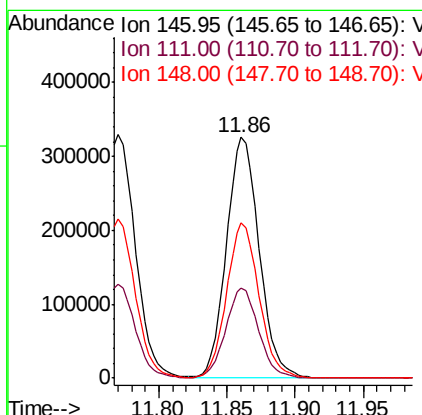
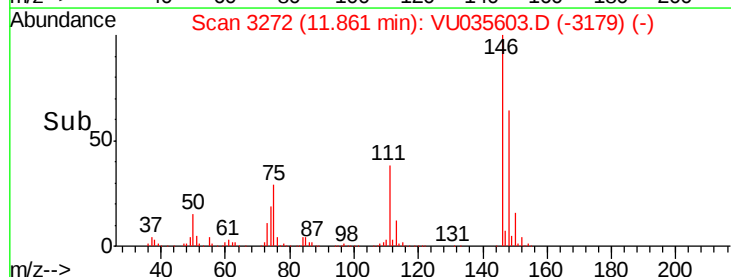
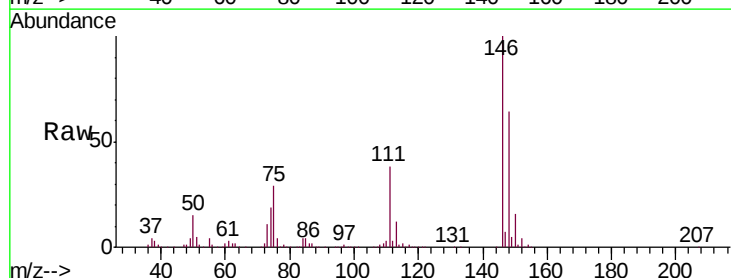
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01005

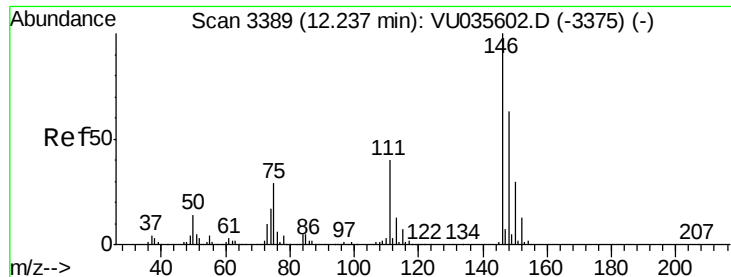
Tgt Ion:146 Resp: 551528  
 Ion Ratio Lower Upper  
 146 100  
 111 38.5 26.7 49.5  
 148 65.2 44.5 82.7



#63  
 1,4-Dichlorobenzene  
 Concen: 9.685 ug/L  
 RT: 11.86 min Scan# 3272  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

Tgt Ion:146 Resp: 544868  
 Ion Ratio Lower Upper  
 146 100  
 111 37.7 25.9 48.1  
 148 64.4 44.1 81.9

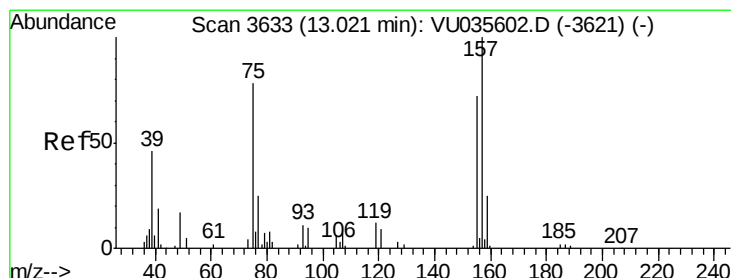
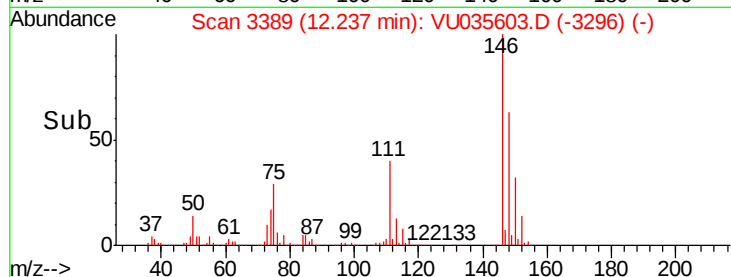
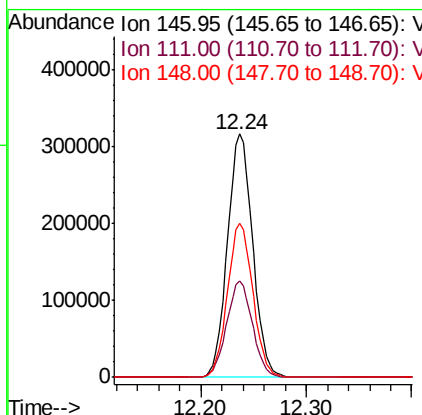
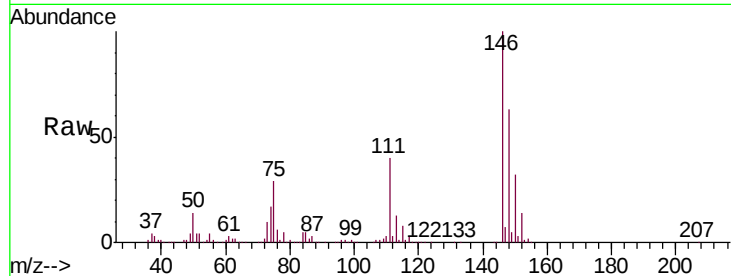




#65  
 1,2-Dichlorobenzene  
 Concen: 9.592 ug/L  
 RT: 12.24 min Scan# 3389  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

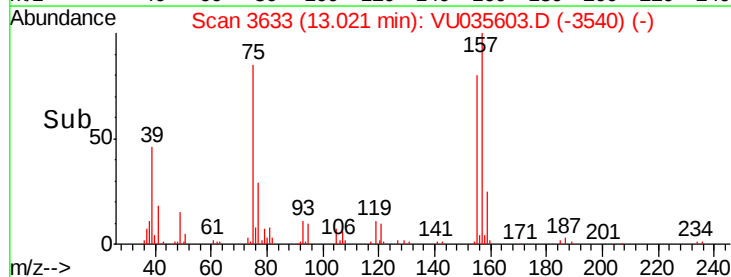
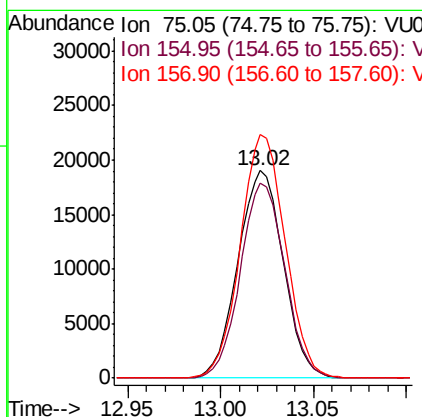
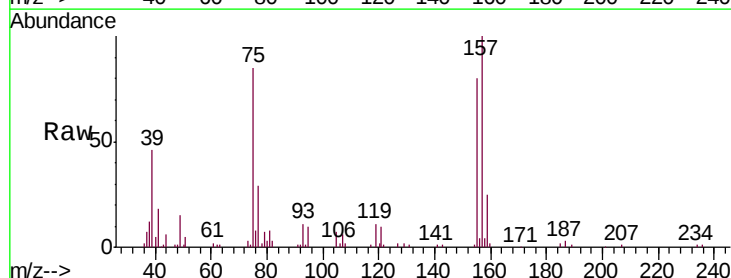
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD01005

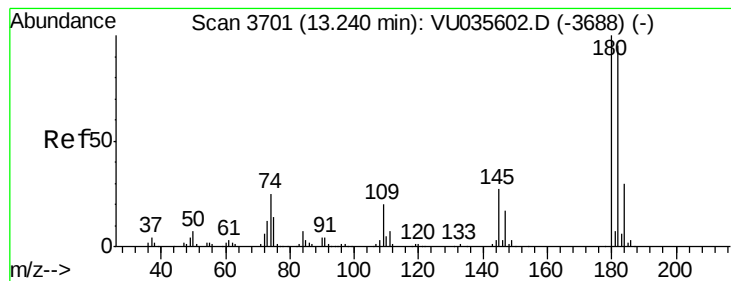
Tgt Ion: 146 Resp: 523680  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 32.2 48.4  
 148 63.4 50.7 76.1



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 9.004 ug/L  
 RT: 13.02 min Scan# 3633  
 Delta R.T. -0.00 min  
 Lab File: VU035603.D  
 Acq: 04 Nov 2019 11:46

Tgt Ion: 75 Resp: 32305  
 Ion Ratio Lower Upper  
 75 100  
 155 94.1 73.3 109.9  
 157 117.2 102.2 153.4





#67

1,3,5-Trichlorobenzene

Concen: 11.459 ug/L

RT: 13.24 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

Tgt Ion:180 Resp: 402714

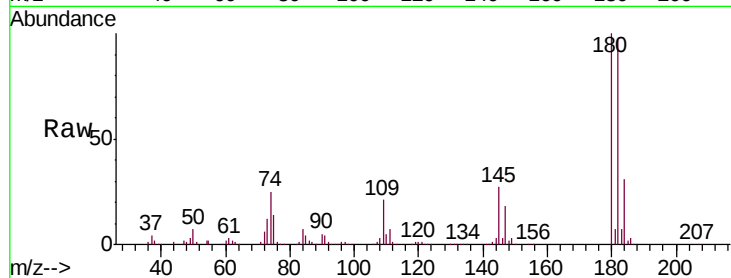
Ion Ratio Lower Upper

180 100

182 95.8 75.9 113.9

184 31.1 24.1 36.1

145 26.9 21.5 32.3

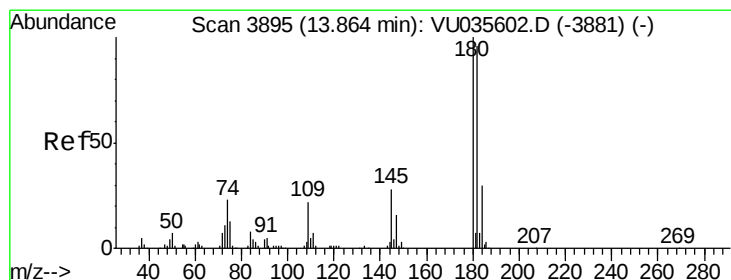
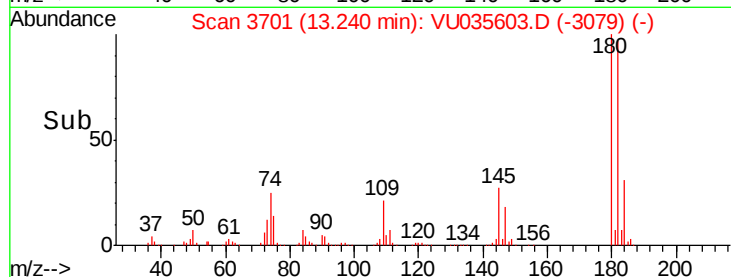
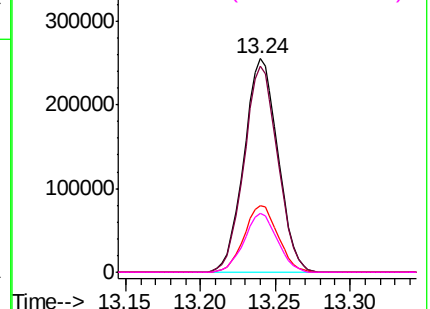


Abundance Ion 180.00 (179.70 to 180.70): V

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: 13.428 ug/L

RT: 13.86 min Scan# 3894

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

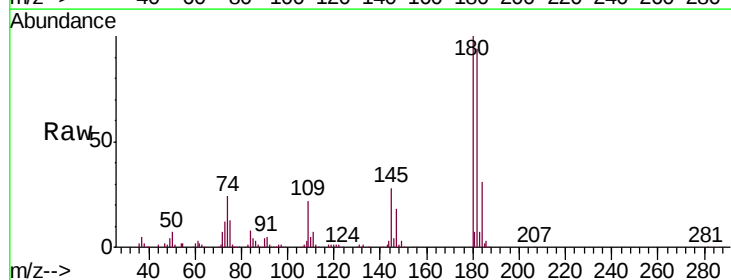
Tgt Ion:180 Resp: 263219

Ion Ratio Lower Upper

180 100

182 94.2 77.4 116.2

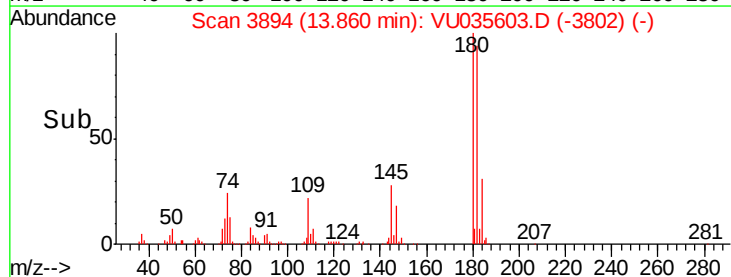
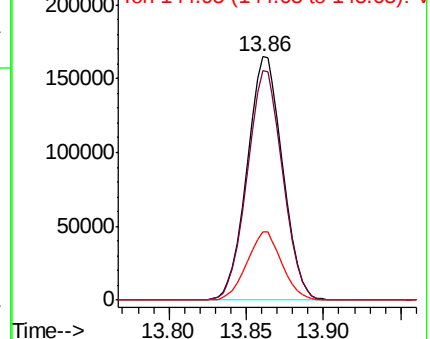
145 27.5 22.2 33.4

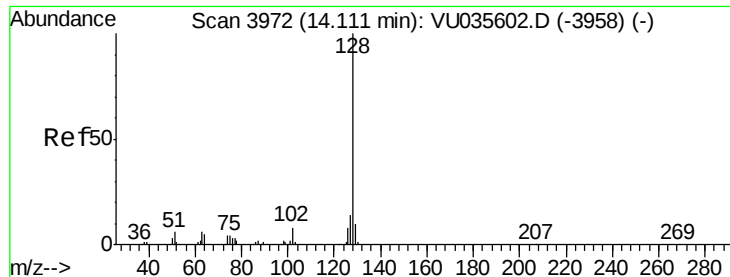


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 12.244 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

Instrument :

MSVOA\_U

ClientSampleId :

VSTD01005

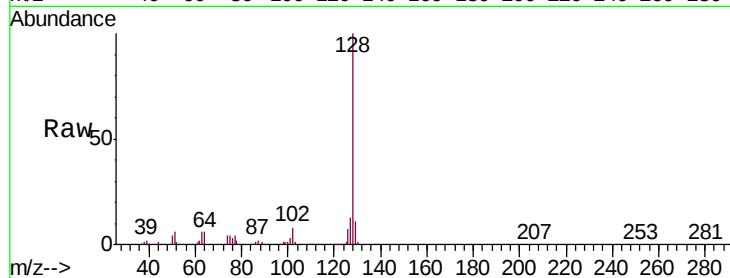
Tgt Ion:128 Resp: 324936

Ion Ratio Lower Upper

128 100

129 10.9 8.1 12.1

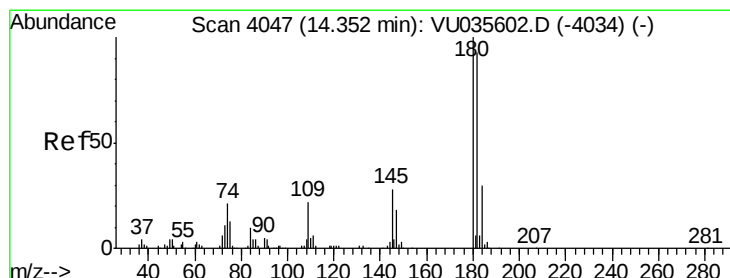
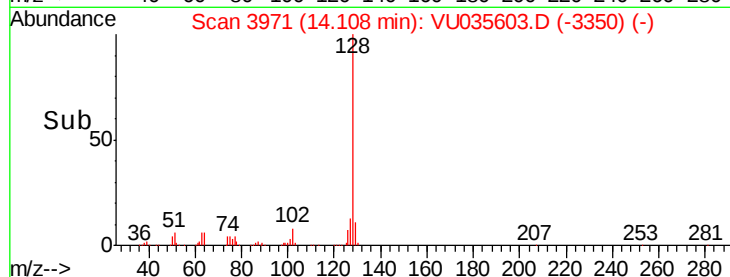
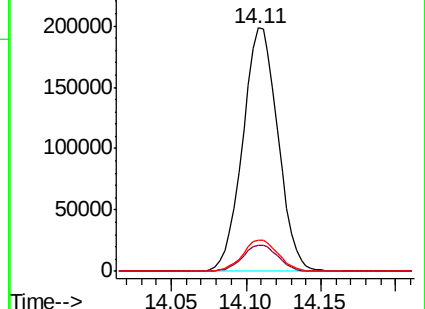
127 13.0 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 12.852 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035603.D

Acq: 04 Nov 2019 11:46

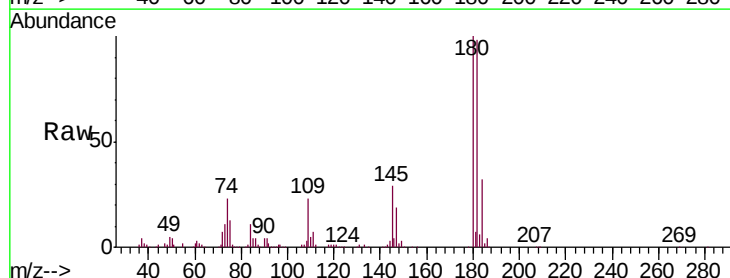
Tgt Ion:180 Resp: 249392

Ion Ratio Lower Upper

180 100

182 96.7 74.8 112.2

145 29.0 23.6 35.4



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

