

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV030519\  
 Data File : VV009483.D  
 Acq On : 05 Mar 2019 10:31  
 Operator : SY/MD  
 Sample : VSTD2.560  
 Misc : 5.00G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

Quant Time: Mar 05 11:52:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 05 11:49:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 137101   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 126893   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 57463    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 3948  | 2.29 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 6609  | 2.95 | ug/L | 0.00 |
| 10) 1,1-Dichloroethene-d2      | 2.13  | 63  | 10588 | 2.32 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.95  | 46  | 545   | 1.05 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 8204  | 2.47 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 4475  | 2.43 | ug/L | 0.00 |
| 29) Benzene-d6                 | 5.10  | 84  | 15220 | 2.26 | ug/L | 0.00 |
| 33) 1,2-Dichloropropane-d6     | 6.12  | 67  | 4590  | 2.32 | ug/L | 0.00 |
| 37) Toluene-d8                 | 7.36  | 98  | 14338 | 2.22 | ug/L | 0.00 |
| 38) trans-1,3-Dichloropropene- | 7.67  | 79  | 2023  | 2.05 | ug/L | 0.00 |
| 39) 2-Hexanone-d5              | 8.14  | 63  | 2199  | 5.26 | ug/L | 0.00 |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 5000  | 2.59 | ug/L | 0.00 |
| 61) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 5433  | 2.55 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3700  | 2.132 ug/L   | 97     |
| 3) Chloromethane               | 1.25 | 50  | 4023  | 2.184 ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62  | 4465  | 2.182 ug/L # | 77     |
| 6) Bromomethane                | 1.53 | 94  | 6721  | 3.053 ug/L   | 96     |
| 8) Chloroethane                | 1.60 | 64  | 6381  | 3.656 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 8937  | 2.166 ug/L   | 92     |
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 5028  | 2.196 ug/L   | 95     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 4529  | 2.300 ug/L   | 87     |
| 13) Acetone                    | 2.21 | 43  | 3672  | 6.181 ug/L   | 97     |
| 14) Carbon disulfide           | 2.32 | 76  | 9963  | 1.948 ug/L   | 99     |
| 15) Methyl Acetate             | 2.47 | 43  | 2431  | 3.097 ug/L   | 98     |
| 16) Methylene chloride         | 2.54 | 84  | 5410  | 2.913 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 9321  | 2.176 ug/L   | 96     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 3837  | 2.242 ug/L   | 92     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 6609  | 2.174 ug/L   | 100    |
| 21) 2-Butanone                 | 4.05 | 43  | 3097  | 4.183 ug/L # | 73     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 4304  | 2.237 ug/L   | 89     |
| 23) Bromochloromethane         | 4.29 | 128 | 1372  | 1.589 ug/L # | 73     |
| 25) Chloroform                 | 4.42 | 83  | 7807  | 2.360 ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.19 | 62  | 5224  | 2.283 ug/L # | 94     |
| 30) Cyclohexane                | 4.72 | 56  | 6217  | 2.068 ug/L   | 97     |
| 31) 1,1,1-Trichloroethane      | 4.66 | 97  | 6491  | 2.154 ug/L # | 84     |
| 32) Carbon tetrachloride       | 4.88 | 117 | 5504  | 2.141 ug/L   | 93     |
| 34) Benzene                    | 5.15 | 78  | 15729 | 2.223 ug/L   | 100    |
| 35) Trichloroethene            | 5.96 | 95  | 4794  | 2.448 ug/L   | 94     |
| 36) Methylcyclohexane          | 6.18 | 83  | 7345  | 2.148 ug/L   | 93     |
| 40) 1,2-Dichloropropane        | 6.23 | 63  | 4088  | 2.326 ug/L # | 89     |
| 41) Bromodichloromethane       | 6.56 | 83  | 5002  | 2.001 ug/L # | 96     |
| 42) cis-1,3-Dichloropropene    | 7.07 | 75  | 5866  | 2.100 ug/L   | 96     |
| 43) 4-Methyl-2-pentanone       | 7.28 | 43  | 7174  | 5.709 ug/L # | 97     |

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 Operator : SY/MD  
 Sample : VSTD2.560  
 Misc : 5.00G/10ML/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

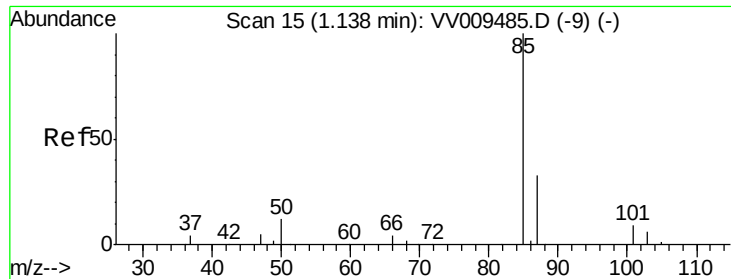
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

Quant Time: Mar 05 11:52:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM030519S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 05 11:49:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 44) Toluene                    | 7.43  | 91   | 16966    | 2.144 | ug/L   | 94       |
| 45) trans-1,3-Dichloropropene  | 7.69  | 75   | 5045     | 1.993 | ug/L   | 94       |
| 46) 1,1,2-Trichloroethane      | 7.88  | 97   | 3363     | 2.316 | ug/L   | 89       |
| 47) Tetrachloroethene          | 8.02  | 164  | 3250     | 2.240 | ug/L   | 90       |
| 49) 2-Hexanone                 | 8.19  | 43   | 4998     | 4.763 | ug/L   | 93       |
| 50) Dibromochloromethane       | 8.29  | 129  | 3727     | 2.052 | ug/L   | 99       |
| 51) 1,2-Dibromoethane          | 8.40  | 107  | 3589     | 2.456 | ug/L # | 99       |
| 52) Chlorobenzene              | 8.92  | 112  | 11877    | 2.317 | ug/L   | 94       |
| 53) Ethylbenzene               | 9.05  | 91   | 19048    | 2.105 | ug/L   | 91       |
| 54) m,p-Xylene                 | 9.18  | 106  | 7219     | 2.048 | ug/L   | 88       |
| 55) o-xylene                   | 9.59  | 106  | 6638     | 1.986 | ug/L   | 99       |
| 56) Styrene                    | 9.61  | 104  | 10960    | 1.955 | ug/L   | 100      |
| 57) Isopropylbenzene           | 9.98  | 105  | 19354    | 2.119 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 4622     | 2.341 | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 3525     | 2.507 | ug/L # | 71       |
| 62) Bromoform                  | 9.77  | 173  | 2032     | 1.970 | ug/L # | 91       |
| 63) 1,3-Dichlorobenzene        | 11.23 | 146  | 8852     | 2.400 | ug/L   | 96       |
| 64) 1,4-Dichlorobenzene        | 11.32 | 146  | 9657     | 2.623 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 8232     | 2.375 | ug/L   | 93       |
| 66) 1,2-Dibromo-3-chloropropan | 12.69 | 75   | 1344     | 3.928 | ug/L # | 5        |
| 67) 1,3,5-Trichlorobenzene     | 13.31 | 180  | 5162     | 1.982 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 5162     | 2.553 | ug/L   | 98       |
| 69) Naphthalene                | 13.55 | 128  | 9801     | 2.394 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 4614     | 2.462 | ug/L   | 97       |
| -----                          |       |      |          |       |        |          |

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

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Acq On : 05 Mar 2019 10:31  
Operator : SY/MD  
Sample : VSTD2.560  
Misc : 5.00G/10ML/MSV0A\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1



#2

Dichlorodifluoromethane

Concen: 2.132 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

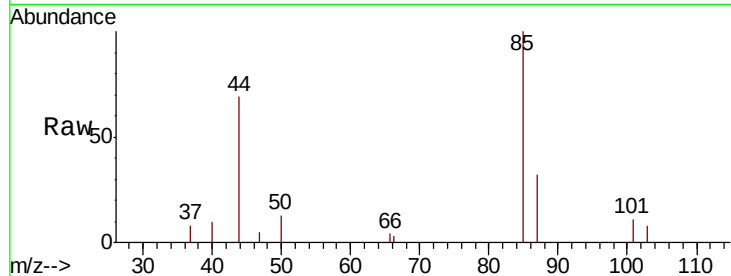
VSTD2.560

Tgt Ion: 85 Resp: 3700

Ion Ratio Lower Upper

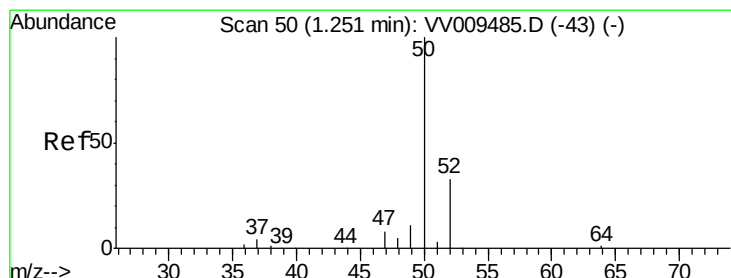
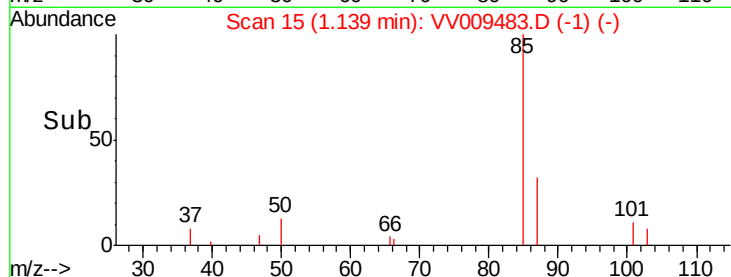
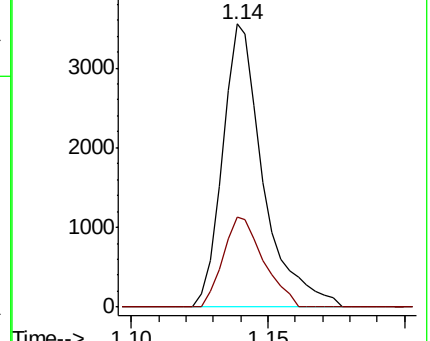
85 100

87 31.5 23.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VV009483.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV009483.D (-9) (-)



#3

Chloromethane

Concen: 2.184 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009483.D

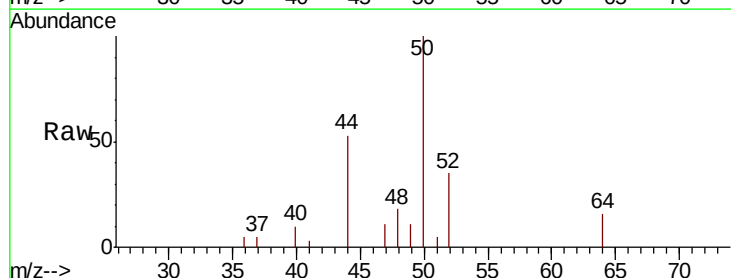
Acq: 05 Mar 2019 10:31

Tgt Ion: 50 Resp: 4023

Ion Ratio Lower Upper

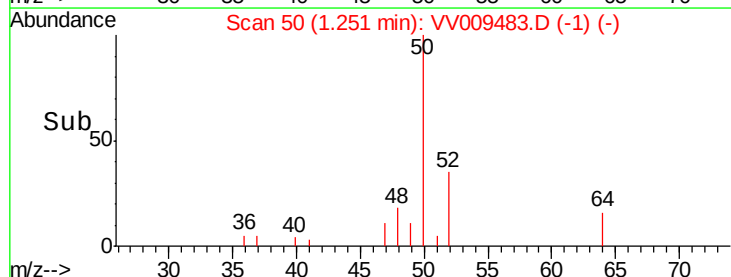
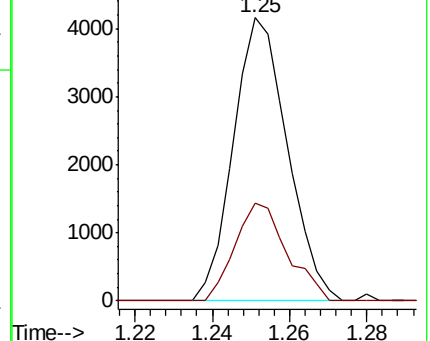
50 100

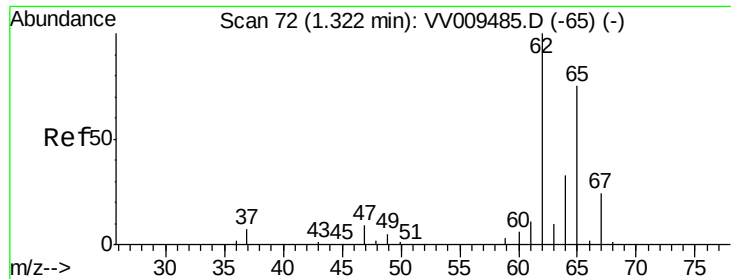
52 34.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV009483.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009483.D (-43) (-)





#5

Vinyl chloride

Concen: 2.182 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

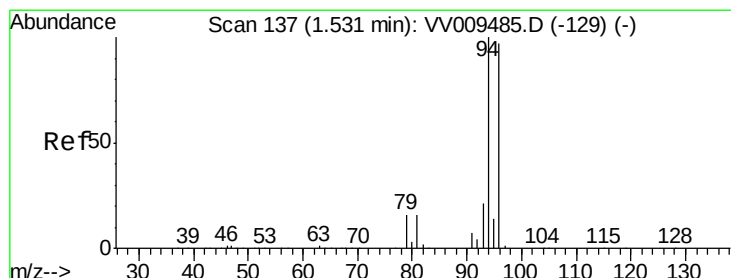
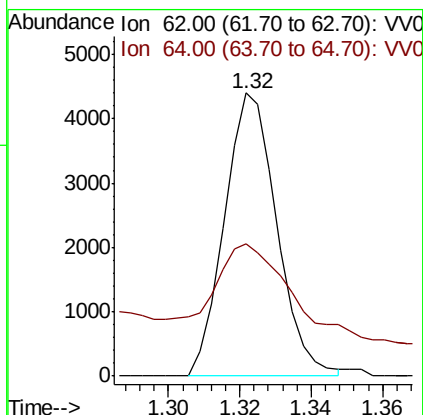
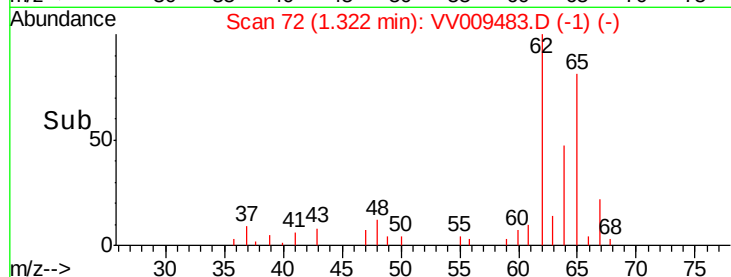
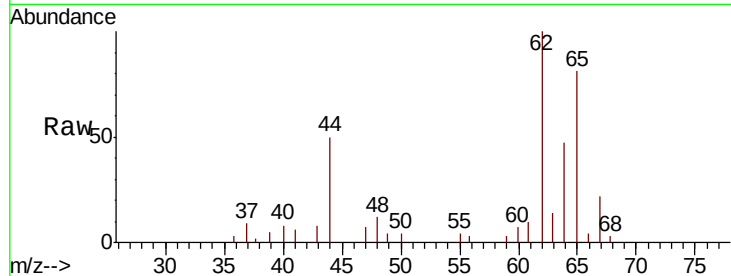
VSTD2.560

Tgt Ion: 62 Resp: 4465

Ion Ratio Lower Upper

62 100

64 46.7 23.5 43.7#



#6

Bromomethane

Concen: 3.053 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV009483.D

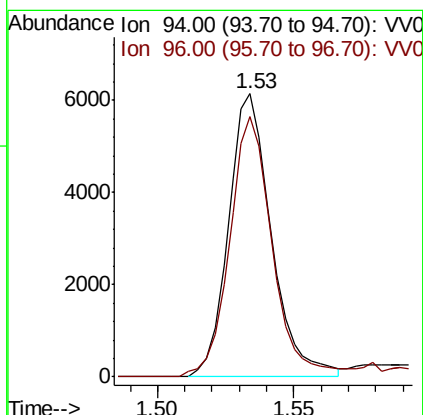
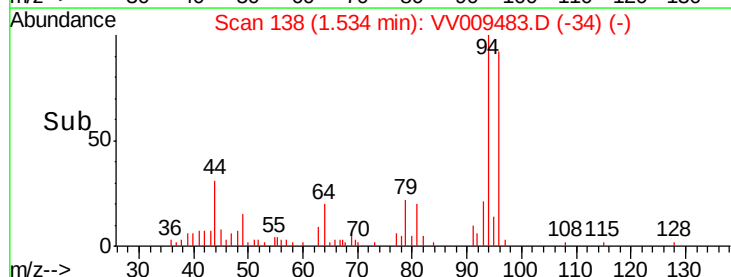
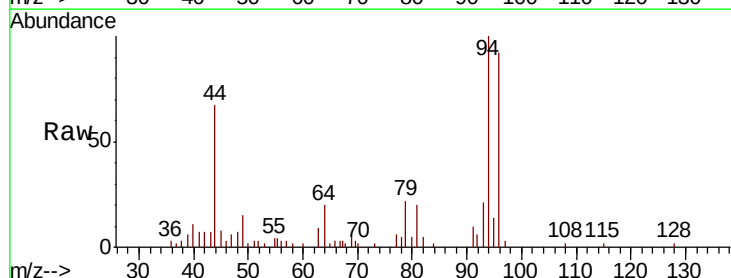
Acq: 05 Mar 2019 10:31

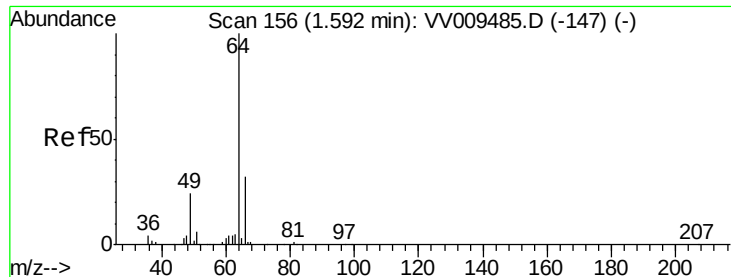
Tgt Ion: 94 Resp: 6721

Ion Ratio Lower Upper

94 100

96 91.3 9.5 181.4





#8

Chloroethane

Concen: 3.656 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

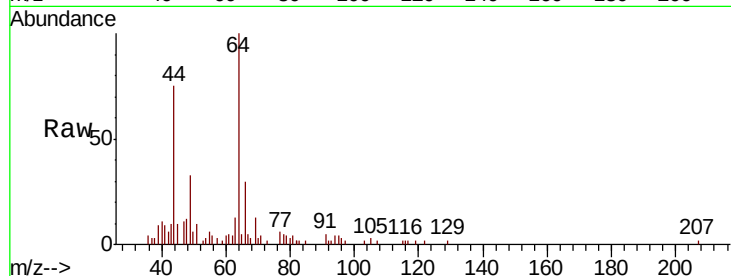
VSTD2.560

Tgt Ion: 64 Resp: 6381

Ion Ratio Lower Upper

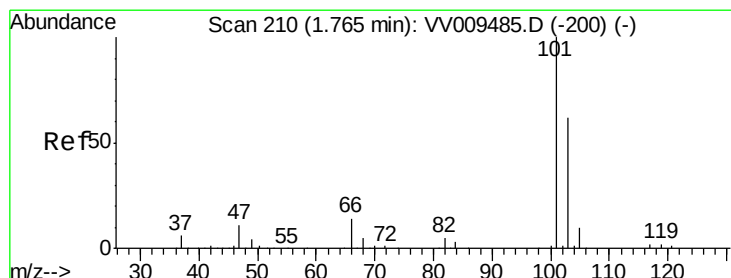
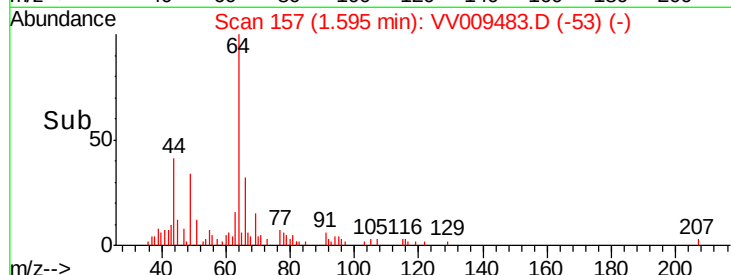
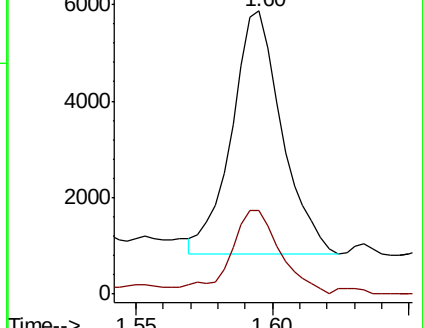
64 100

66 29.7 21.8 40.6



Abundance Ion 64.00 (63.70 to 64.70): VV009483.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV009483.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 2.166 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009483.D

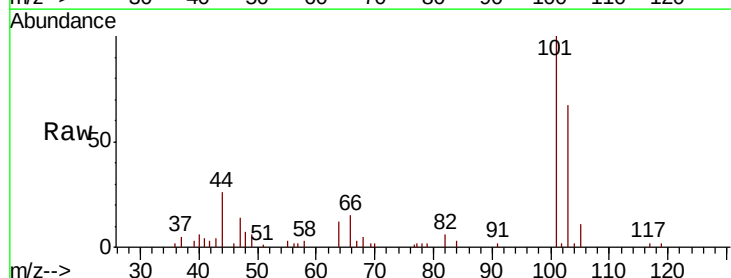
Acq: 05 Mar 2019 10:31

Tgt Ion: 101 Resp: 8937

Ion Ratio Lower Upper

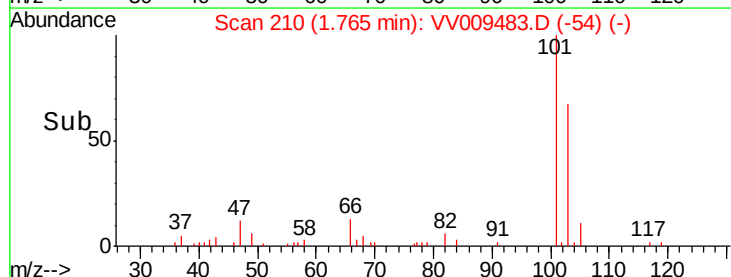
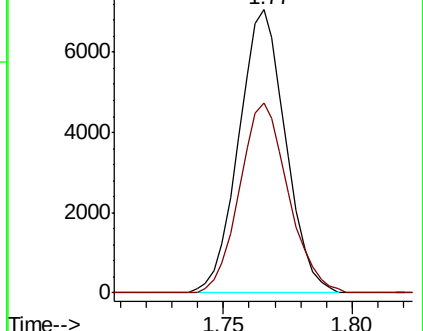
101 100

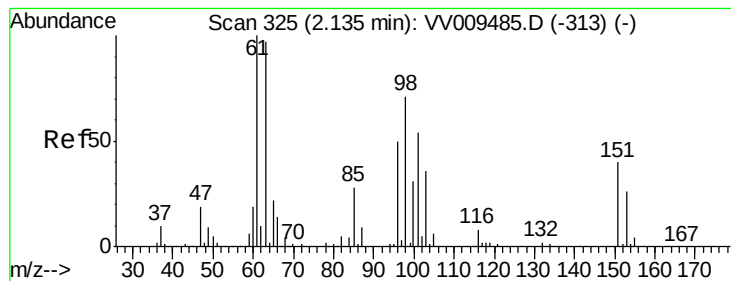
103 69.8 44.7 83.1



Abundance Ion 101.00 (100.70 to 101.70): VV009483.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV009483.D (-200) (-)





#11

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

Concen: 2.196 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

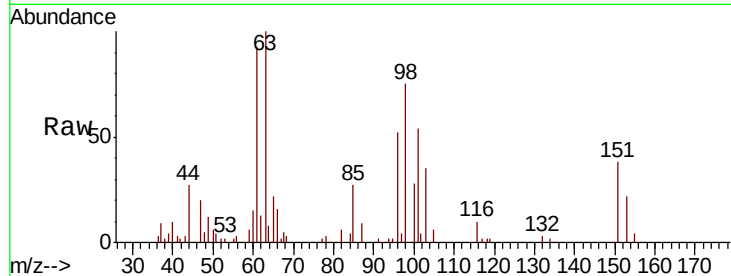
Tgt Ion: 101 Resp: 5028

Ion Ratio Lower Upper

101 100

85 47.4 40.1 60.1

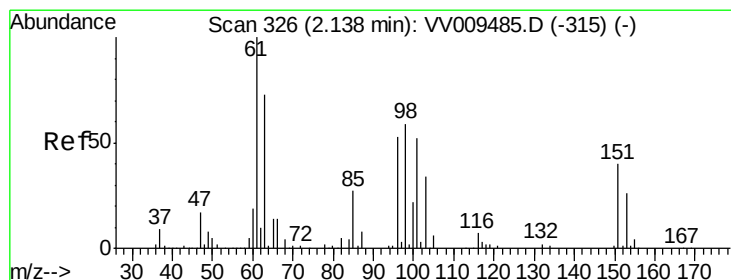
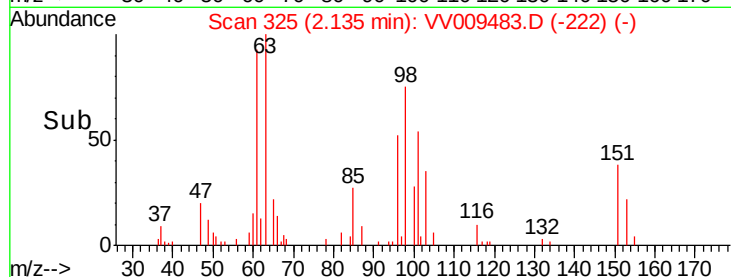
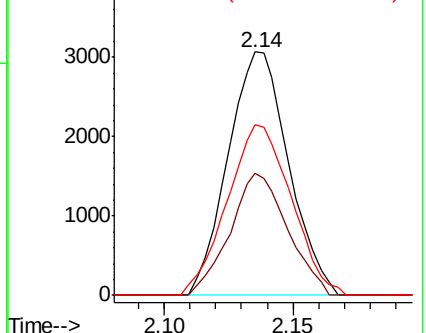
151 74.0 55.9 83.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.300 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

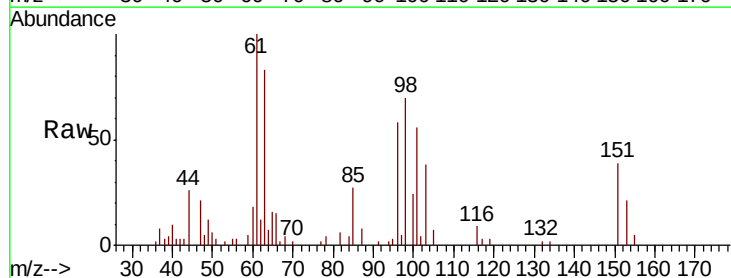
Tgt Ion: 96 Resp: 4529

Ion Ratio Lower Upper

96 100

61 171.7 136.9 254.3

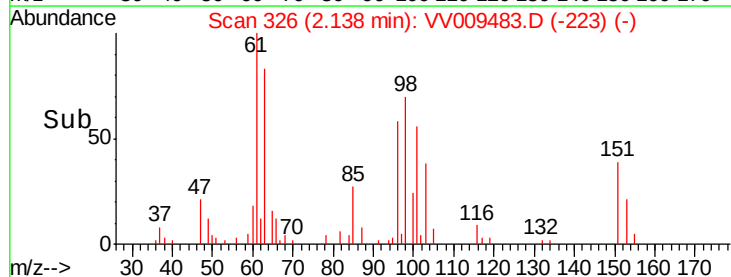
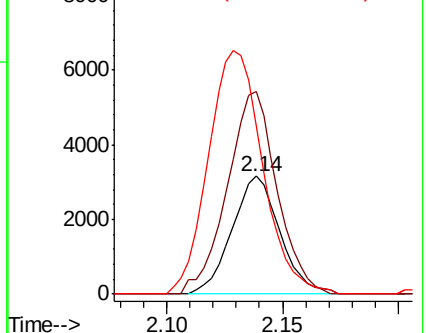
63 142.6 108.7 201.9

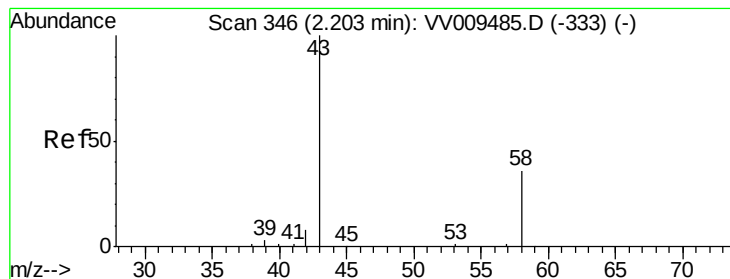


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.181 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

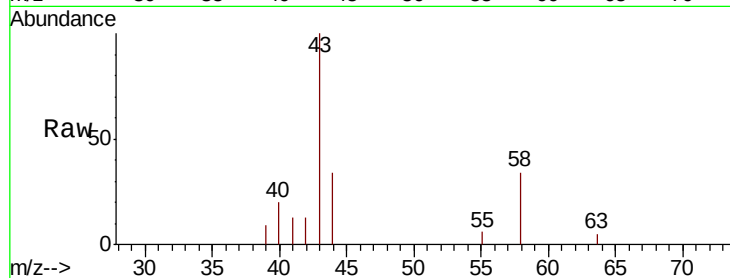
VSTD2.560

Tgt Ion: 43 Resp: 3672

Ion Ratio Lower Upper

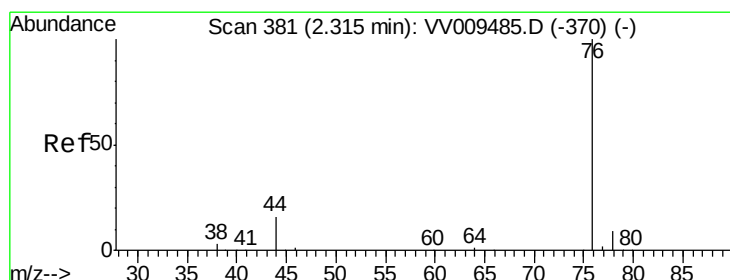
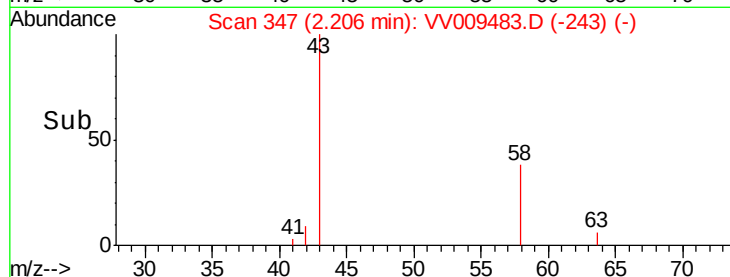
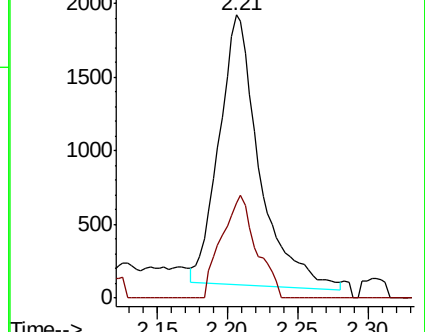
43 100

58 32.5 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VV009483.D (-243) (-)

Ion 58.00 (57.70 to 58.70): VV009483.D (-243) (-)



#14

Carbon disulfide

Concen: 1.948 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009483.D

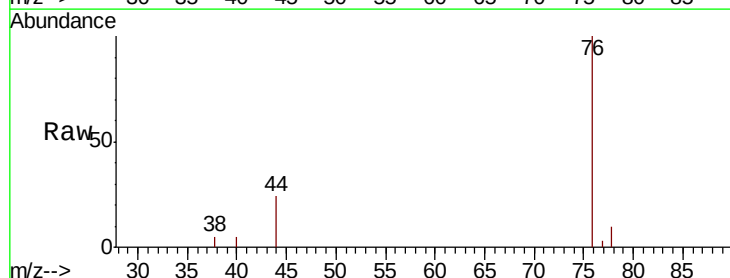
Acq: 05 Mar 2019 10:31

Tgt Ion: 76 Resp: 9963

Ion Ratio Lower Upper

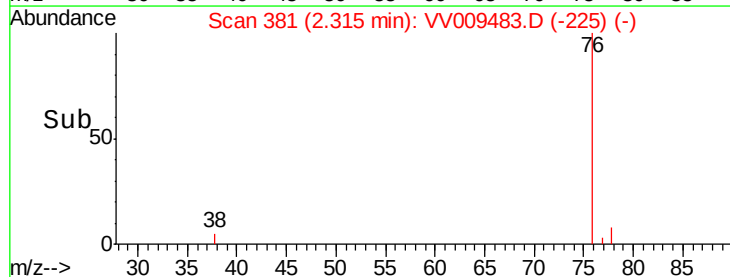
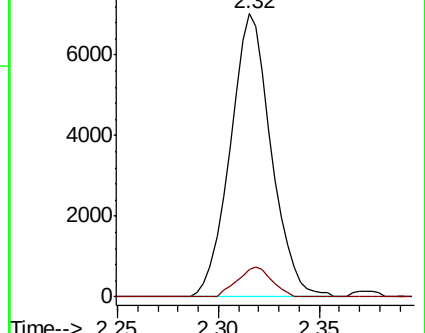
76 100

78 9.6 7.5 11.3

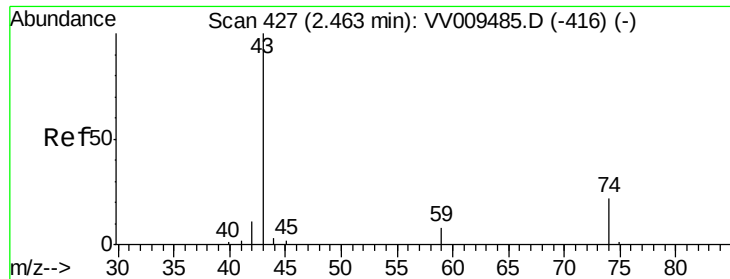


Abundance Ion 76.00 (75.70 to 76.70): VV009483.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV009483.D (-225) (-)



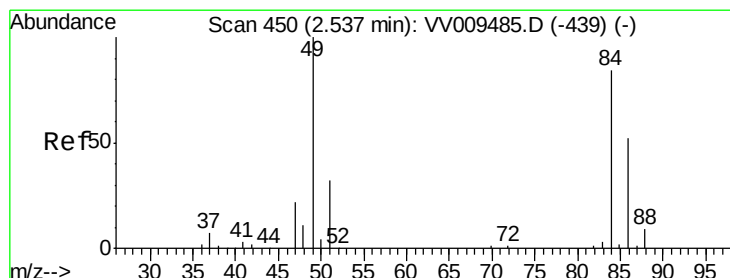
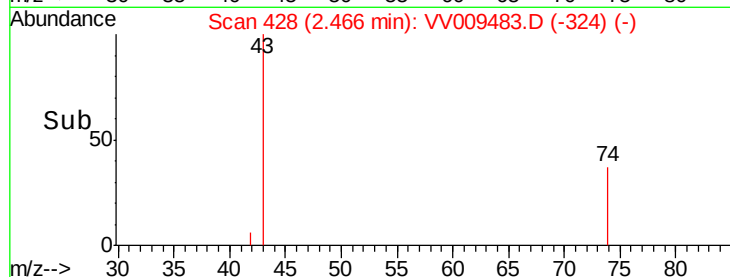
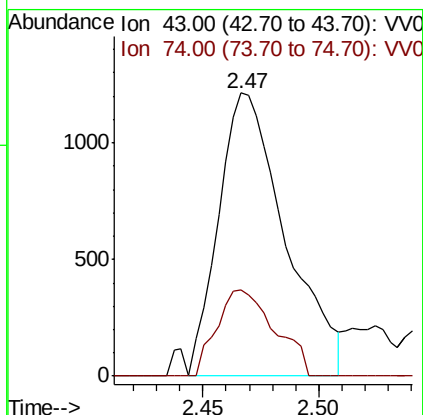
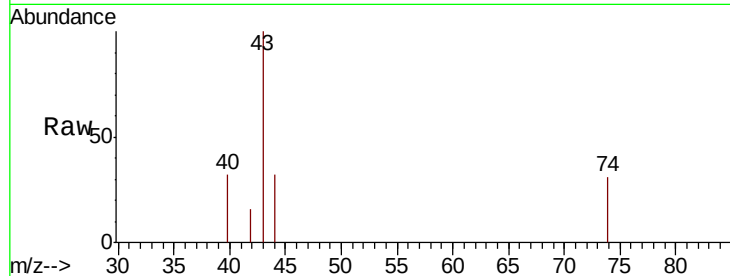




#15  
Methyl Acetate  
Concen: 3.097 ug/L  
RT: 2.47 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

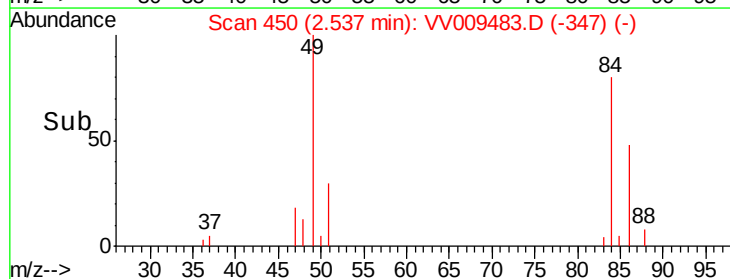
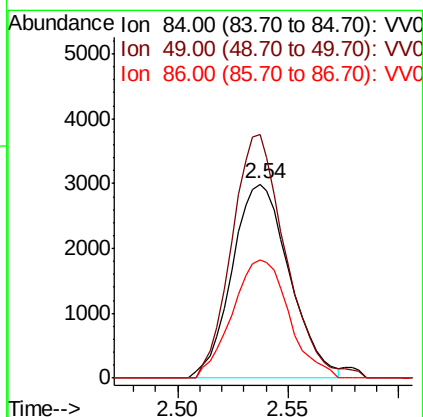
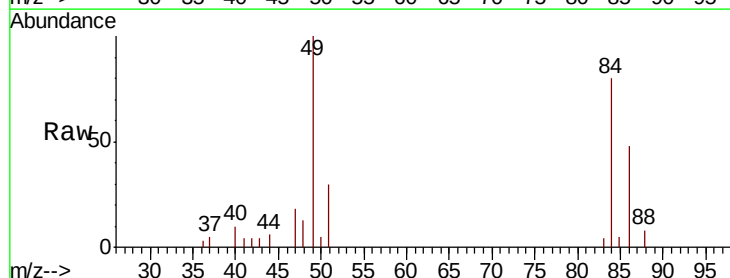
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

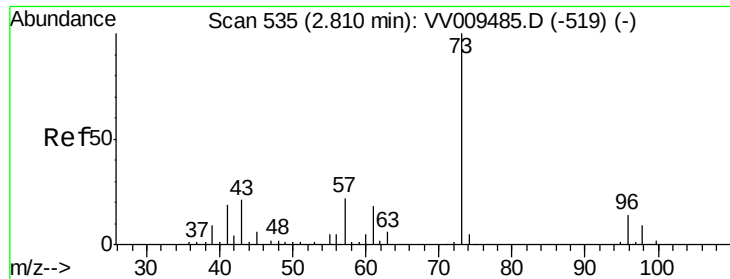
Tgt Ion: 43 Resp: 2431  
Ion Ratio Lower Upper  
43 100  
74 26.4 21.8 32.8



#16  
Methylene chloride  
Concen: 2.913 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Tgt Ion: 84 Resp: 5410  
Ion Ratio Lower Upper  
84 100  
49 125.5 84.6 157.0  
86 60.6 46.1 85.7

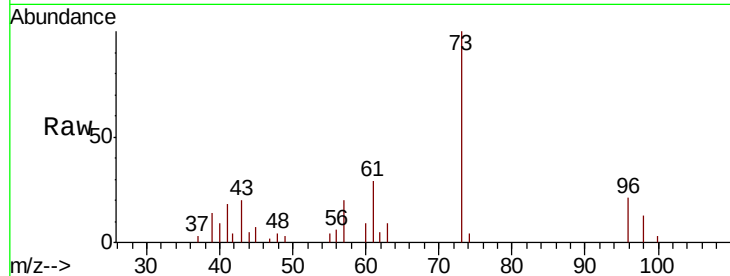




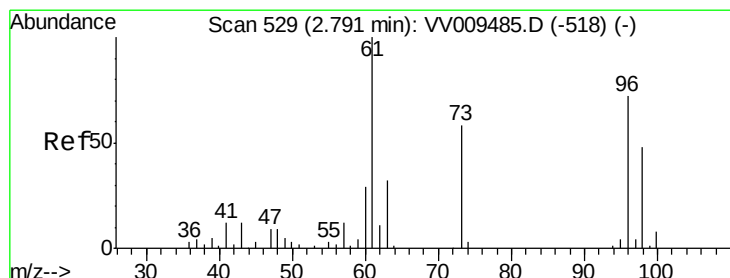
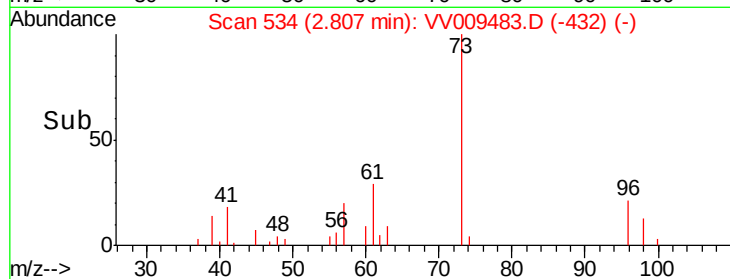
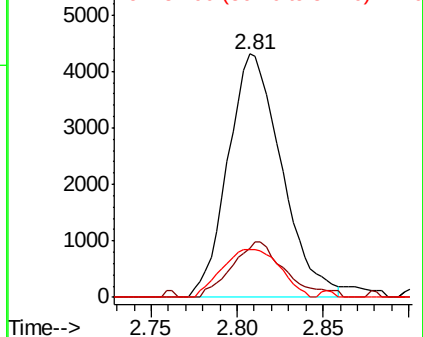
#17  
Methyl tert-butyl Ether  
Concen: 2.176 ug/L  
RT: 2.81 min Scan# 534  
Delta R.T. -0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

Tgt Ion: 73 Resp: 9321  
Ion Ratio Lower Upper  
73 100  
43 22.3 15.0 22.4  
57 21.4 17.0 25.4

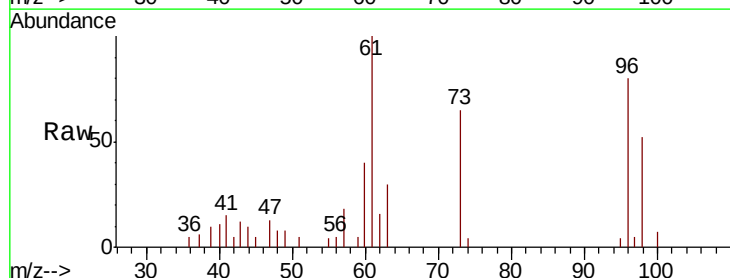


Abundance Ion 73.00 (72.70 to 73.70): VV0  
Ion 43.00 (42.70 to 43.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0

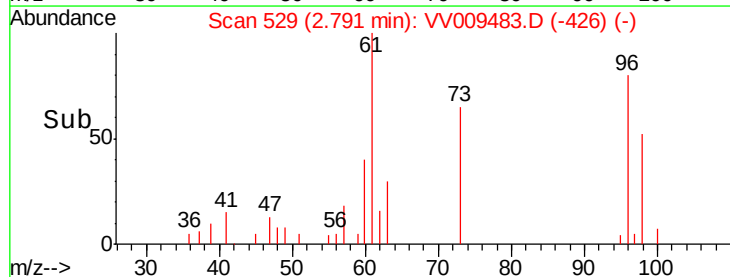
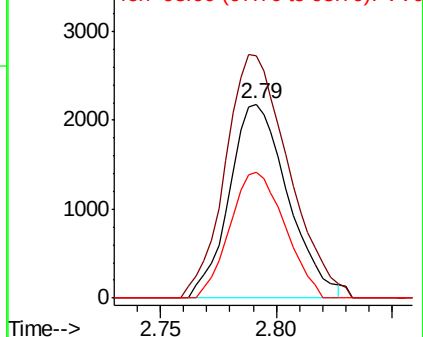


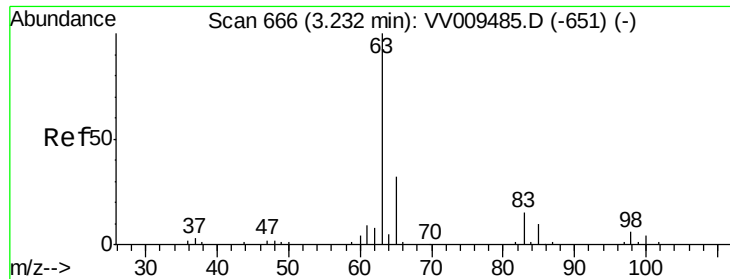
#18  
trans-1,2-Dichloroethene  
Concen: 2.242 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Tgt Ion: 96 Resp: 3837  
Ion Ratio Lower Upper  
96 100  
61 124.4 95.6 177.6  
98 65.0 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.00 (60.70 to 61.70): VV0  
Ion 98.00 (97.70 to 98.70): VV0

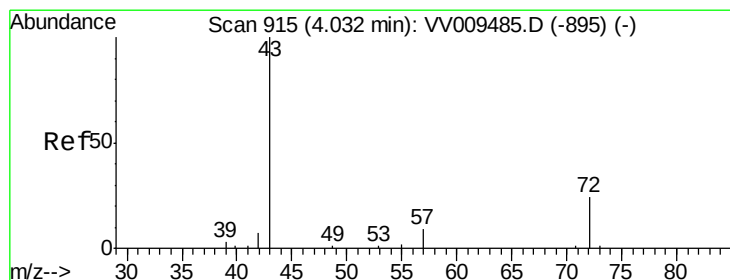
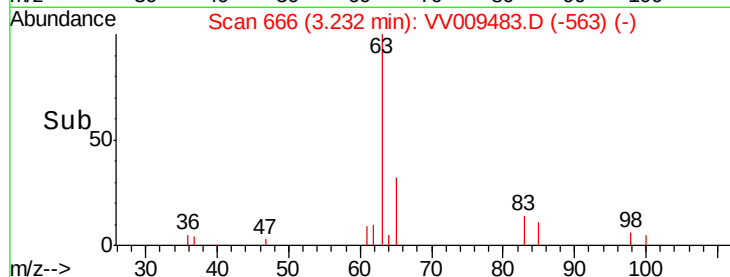
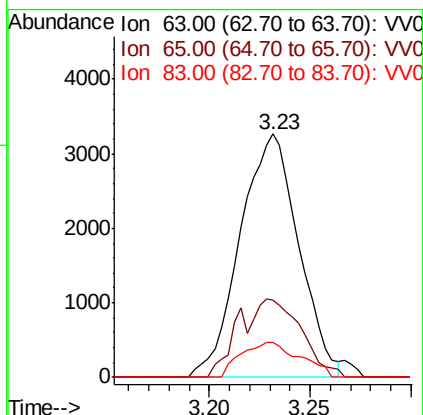
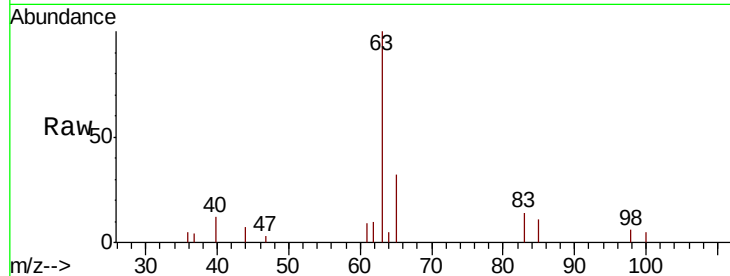




#19  
 1,1-Dichloroethane  
 Concen: 2.174 ug/L  
 RT: 3.23 min Scan# 666  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

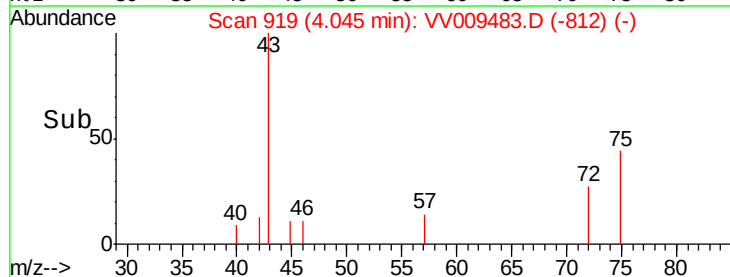
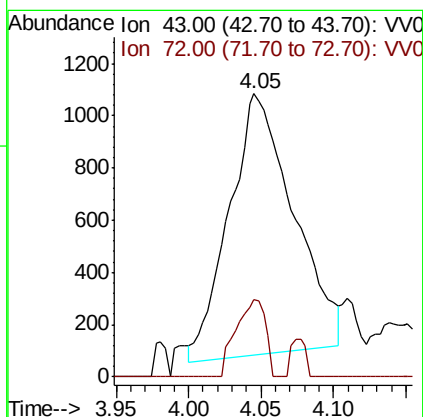
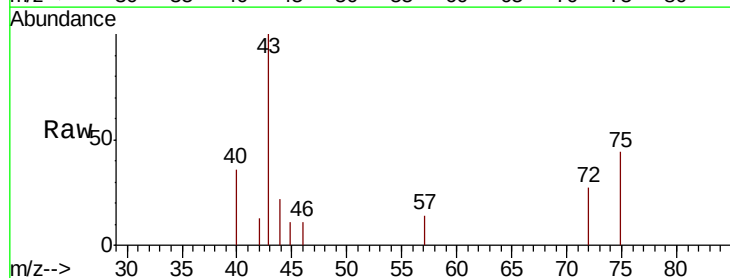
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

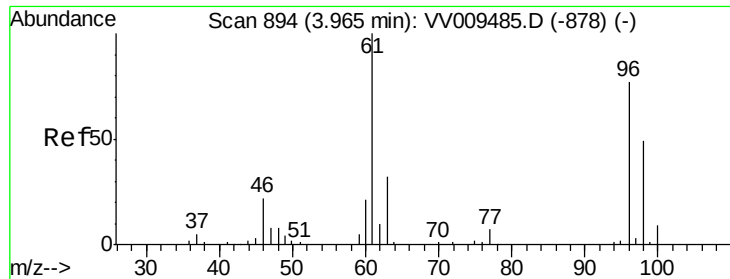
Tgt Ion: 63 Resp: 6609  
 Ion Ratio Lower Upper  
 63 100  
 65 31.6 22.1 41.1  
 83 14.4 10.2 19.0



#21  
 2-Butanone  
 Concen: 4.183 ug/L  
 RT: 4.05 min Scan# 919  
 Delta R.T. 0.01 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion: 43 Resp: 3097  
 Ion Ratio Lower Upper  
 43 100  
 72 13.4 13.7 41.0#



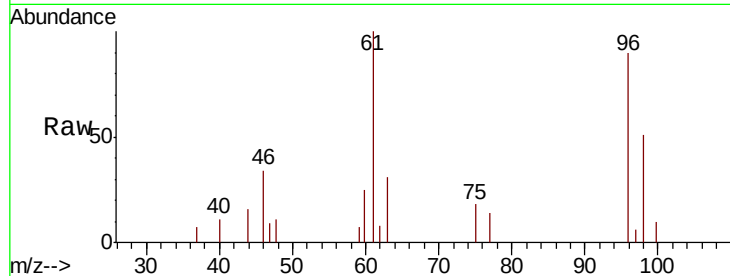


#22

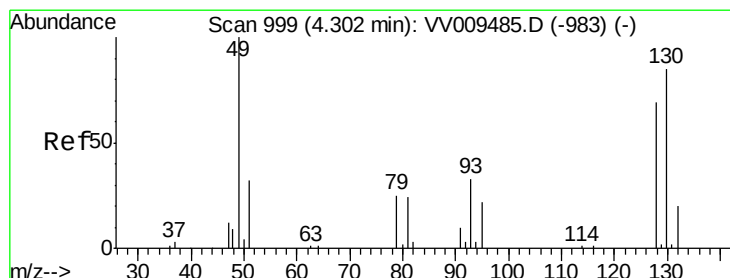
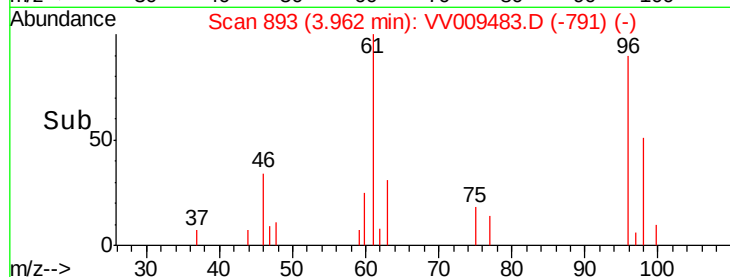
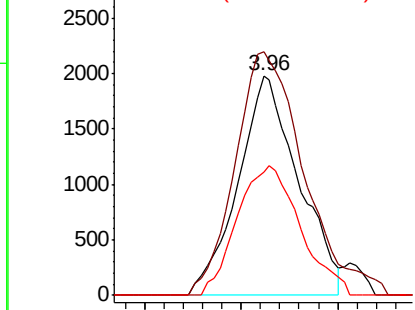
cis-1,2-Dichloroethene  
 Concen: 2.237 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. -0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

Tgt Ion: 96 Resp: 4304  
 Ion Ratio Lower Upper  
 96 100  
 61 111.0 87.2 161.9  
 98 56.4 44.6 82.8



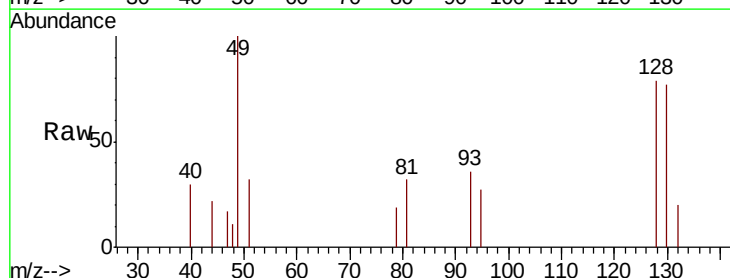
Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 98.00 (97.70 to 98.70): VV0



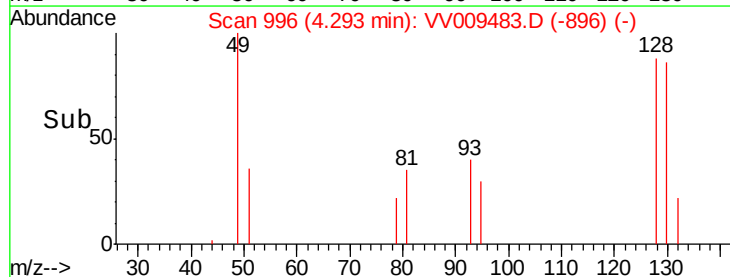
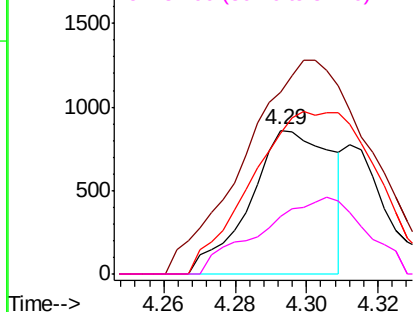
#23

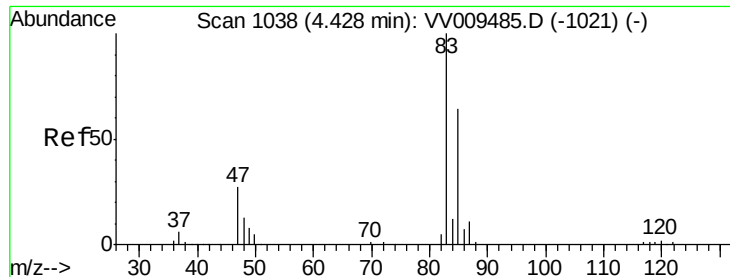
Bromochloromethane  
 Concen: 1.589 ug/L  
 RT: 4.29 min Scan# 996  
 Delta R.T. -0.01 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion: 128 Resp: 1372  
 Ion Ratio Lower Upper  
 128 100  
 49 126.6 115.5 214.5  
 130 97.7 92.6 172.0  
 51 40.6 43.4 65.2#



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 49.00 (48.70 to 49.70): VV0  
 Ion 130.00 (129.70 to 130.70): V  
 Ion 51.00 (50.70 to 51.70): VV0

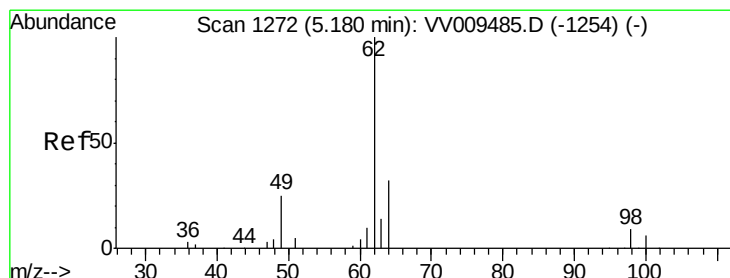
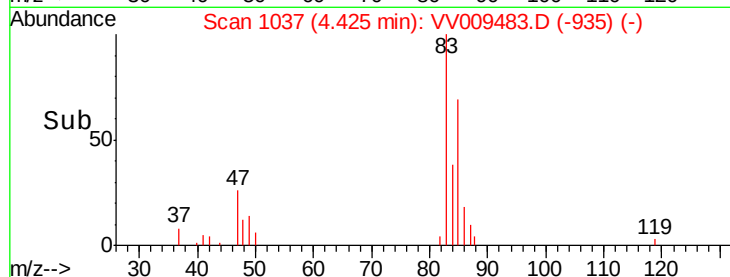
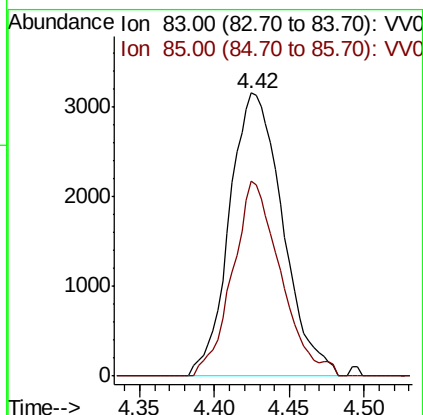
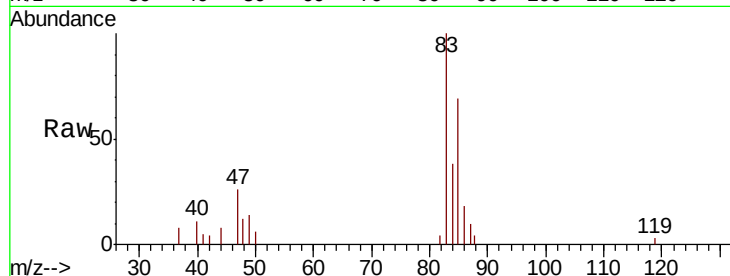




#25  
Chloroform  
Concen: 2.360 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

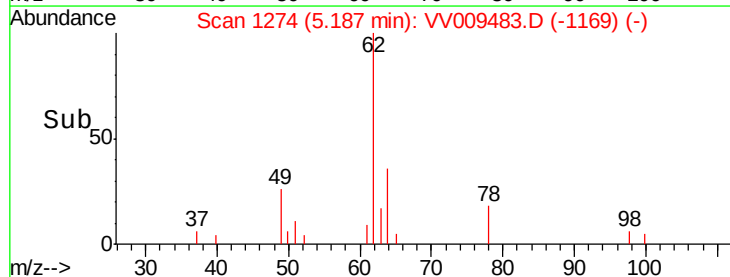
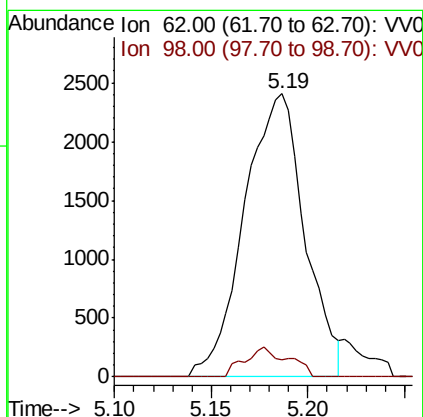
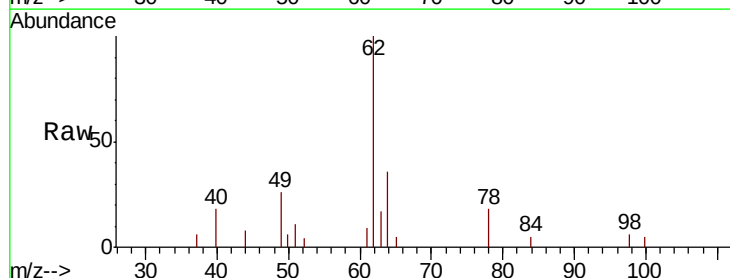
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

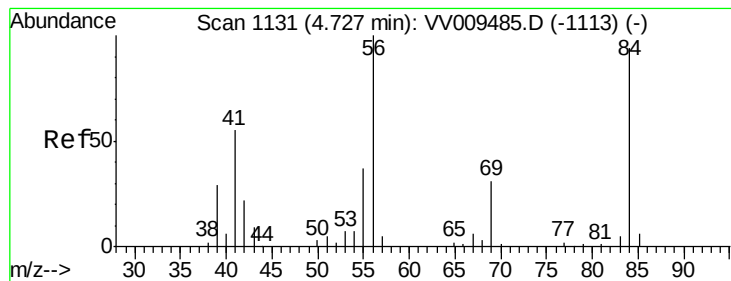
Tgt Ion: 83 Resp: 7807  
Ion Ratio Lower Upper  
83 100  
85 61.4 45.4 84.2



#27  
1,2-Dichloroethane  
Concen: 2.283 ug/L  
RT: 5.19 min Scan# 1274  
Delta R.T. 0.01 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Tgt Ion: 62 Resp: 5224  
Ion Ratio Lower Upper  
62 100  
98 6.2 6.6 10.0#





#30

Cyclohexane

Concen: 2.068 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

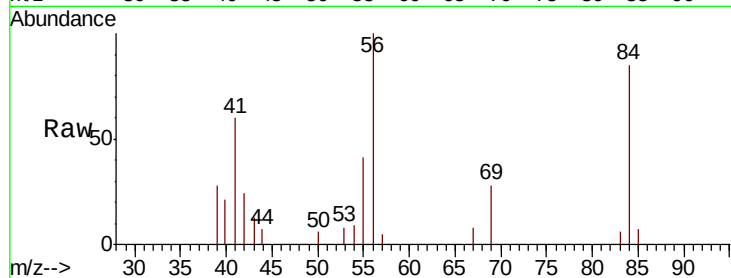
Tgt Ion: 56 Resp: 6217

Ion Ratio Lower Upper

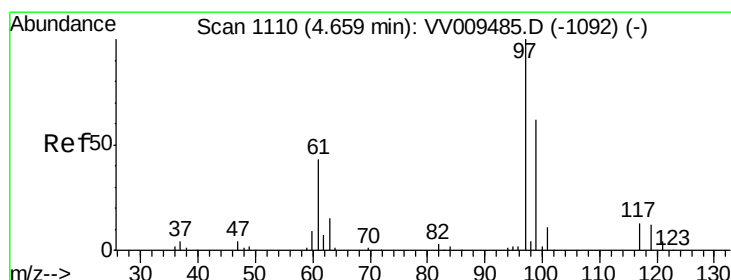
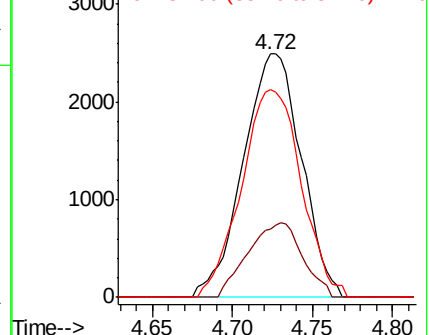
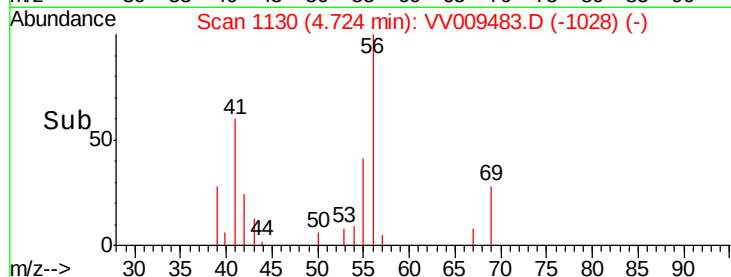
56 100

69 28.8 24.9 37.3

84 87.3 71.9 107.9



Abundance Ion 56.00 (55.70 to 56.70): VV009483.D (-1028) (-)



#31

1,1,1-Trichloroethane

Concen: 2.154 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

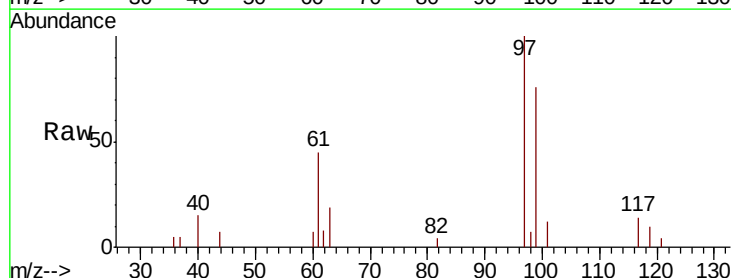
Tgt Ion: 97 Resp: 6491

Ion Ratio Lower Upper

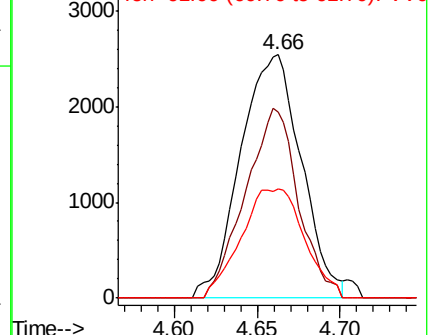
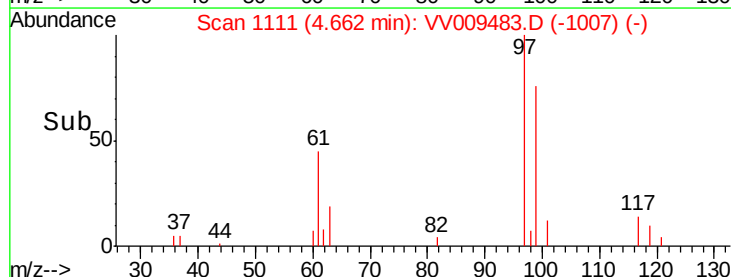
97 100

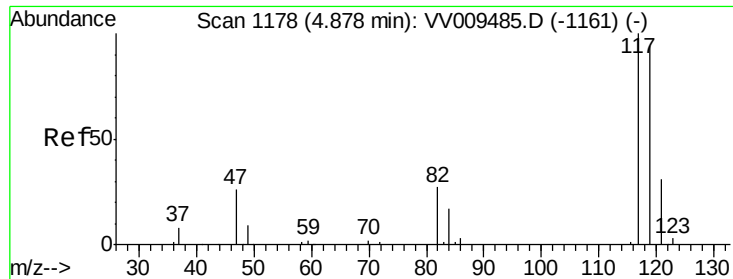
99 68.0 51.0 76.4

61 24.9 36.1 54.1#



Abundance Ion 97.00 (96.70 to 97.70): VV009483.D (-1007) (-)





#32

Carbon tetrachloride

Concen: 2.141 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

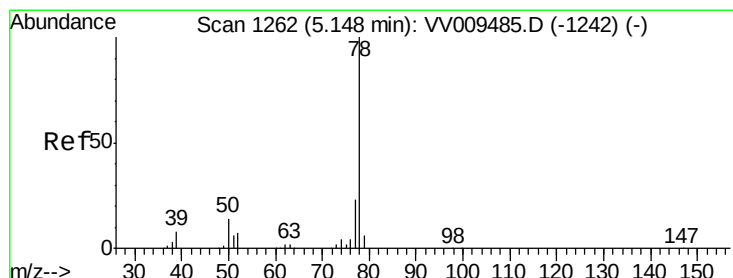
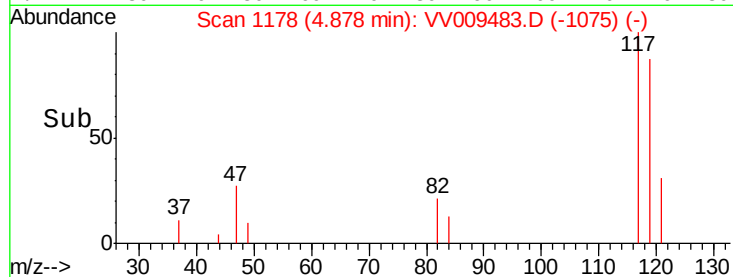
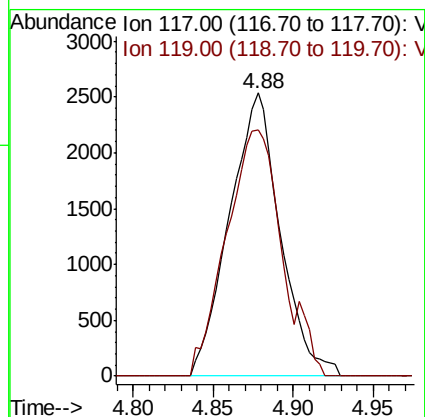
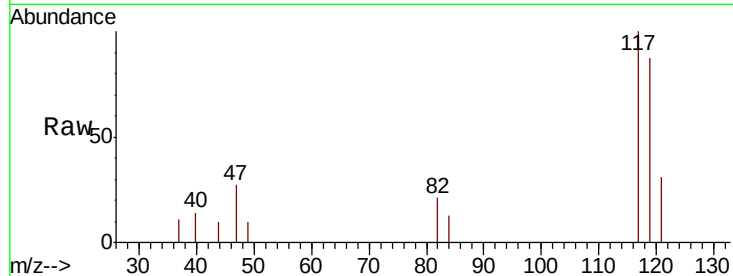
VSTD2.560

Tgt Ion:117 Resp: 5504

Ion Ratio Lower Upper

117 100

119 88.6 76.5 114.7



#34

Benzene

Concen: 2.223 ug/L

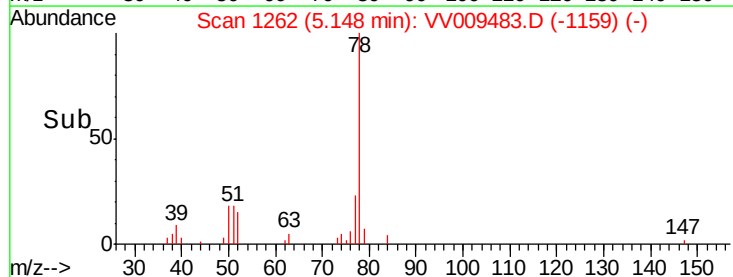
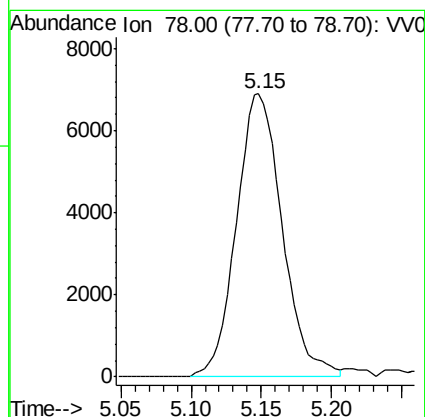
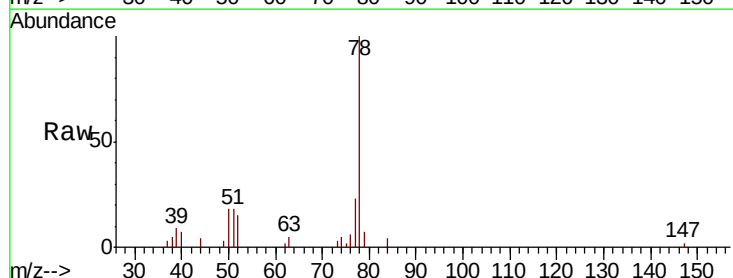
RT: 5.15 min Scan# 1262

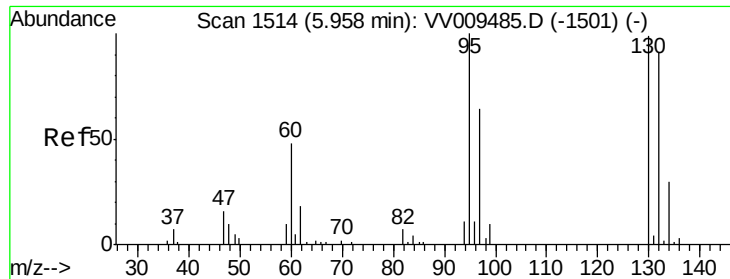
Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Tgt Ion: 78 Resp: 15729





#35

Trichloroethene

Concen: 2.448 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

Tgt Ion: 95 Resp: 4794

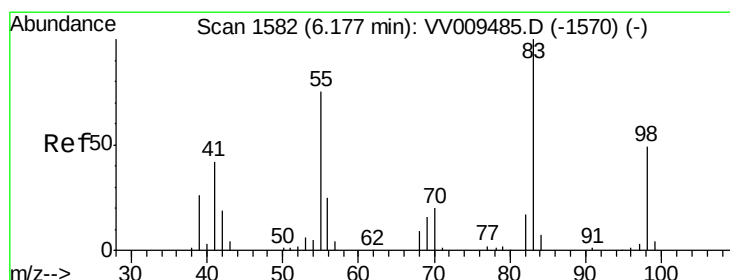
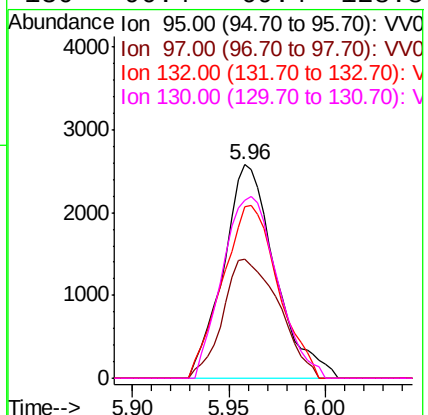
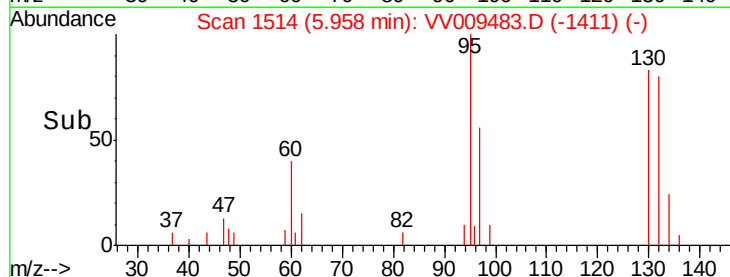
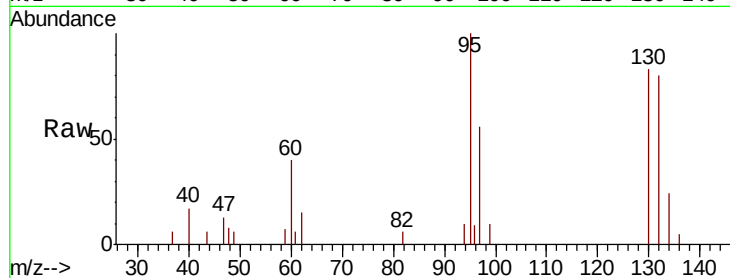
Ion Ratio Lower Upper

95 100

97 60.2 44.3 82.3

132 87.0 64.4 119.6

130 90.4 69.4 128.8



#36

Methylcyclohexane

Concen: 2.148 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

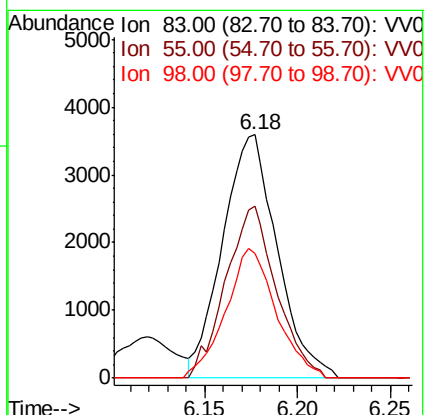
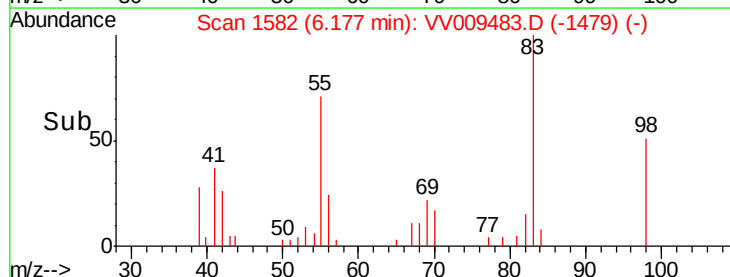
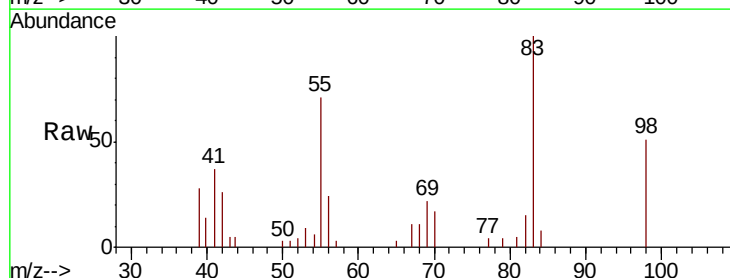
Tgt Ion: 83 Resp: 7345

Ion Ratio Lower Upper

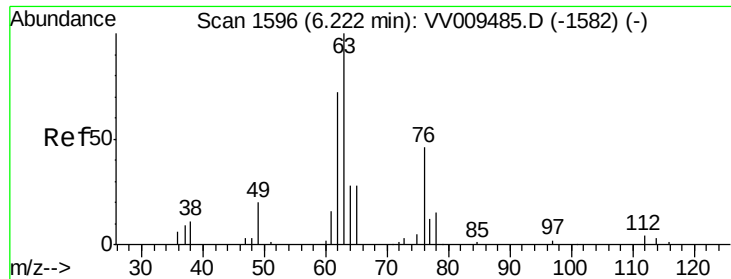
83 100

55 65.6 58.8 88.2

98 49.3 37.7 56.5



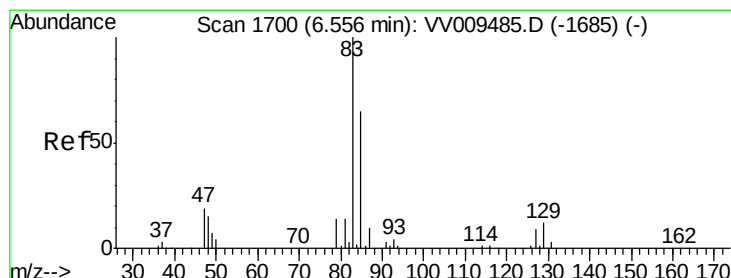
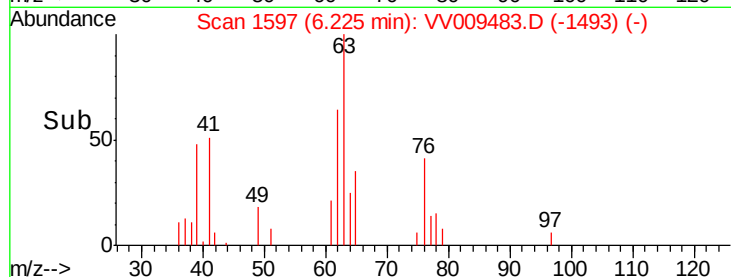
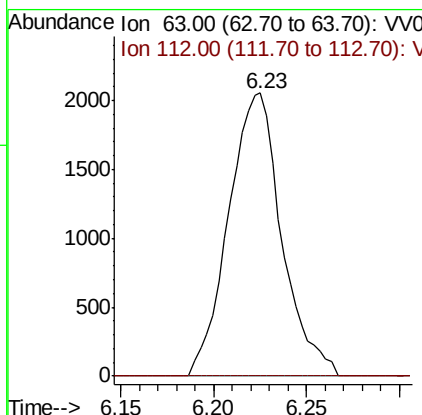
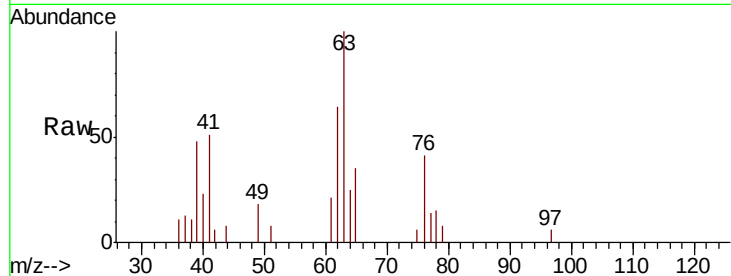




#40  
 1,2-Dichloropropane  
 Concen: 2.326 ug/L  
 RT: 6.23 min Scan# 1597  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

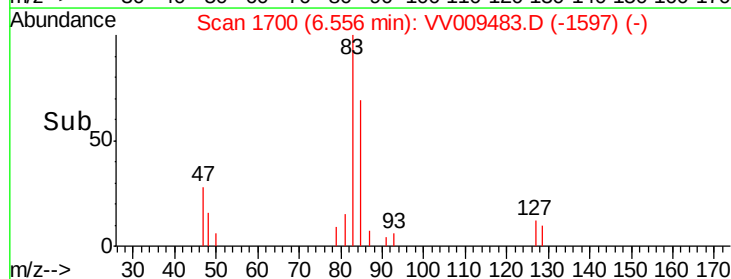
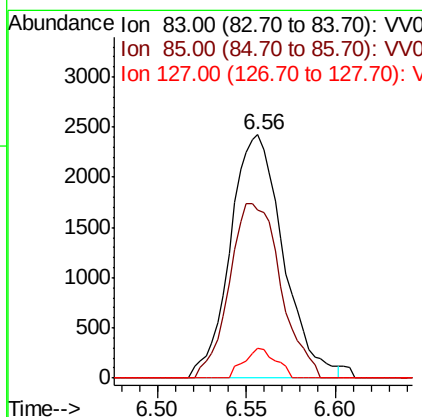
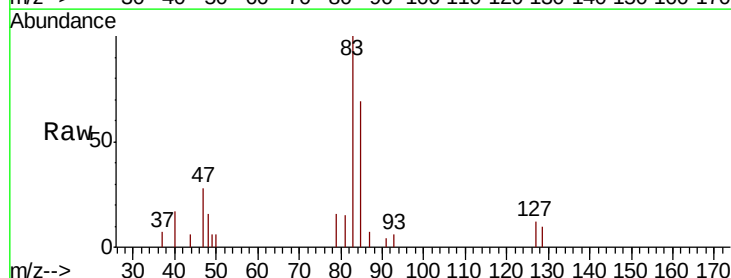
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

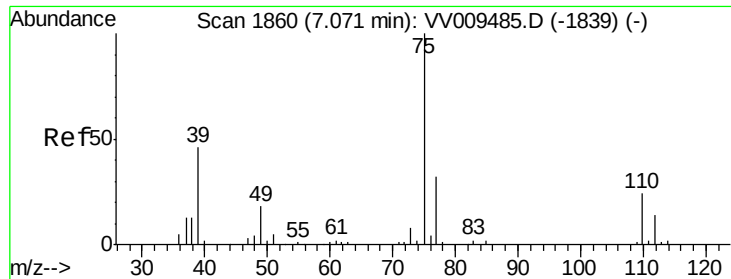
Tgt Ion: 63 Resp: 4088  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.4#



#41  
 Bromodichloromethane  
 Concen: 2.001 ug/L  
 RT: 6.56 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion: 83 Resp: 5002  
 Ion Ratio Lower Upper  
 83 100  
 85 69.1 46.5 86.3  
 127 12.3 7.2 10.8#



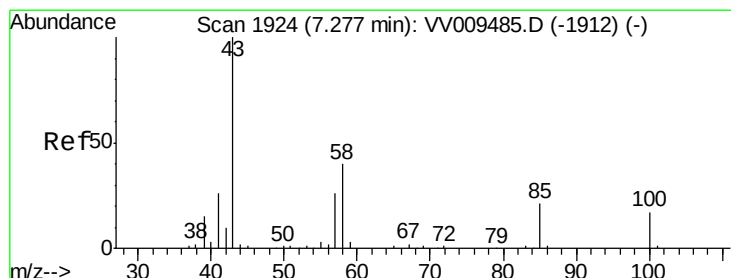
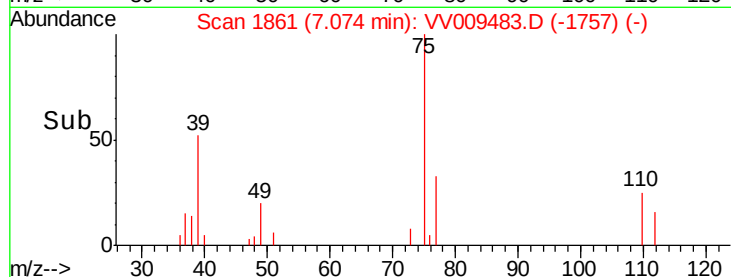
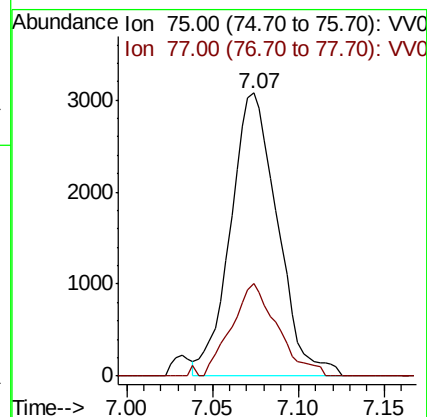
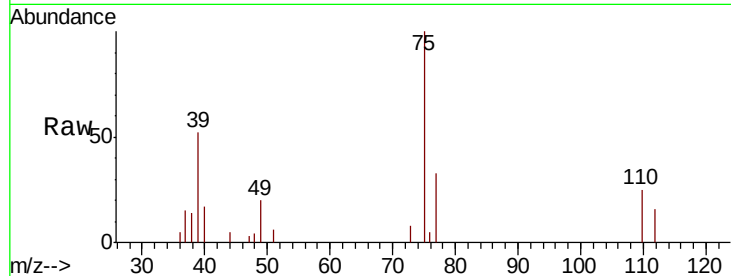


#42

cis-1,3-Dichloropropene  
Concen: 2.100 ug/L  
RT: 7.07 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

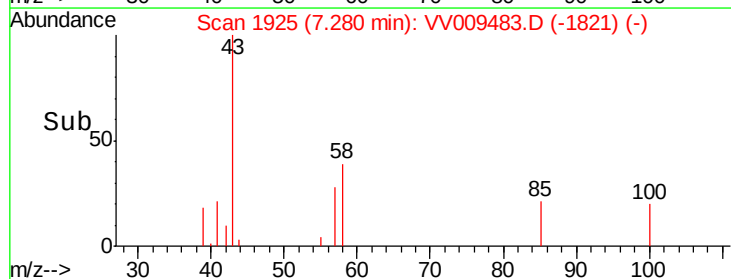
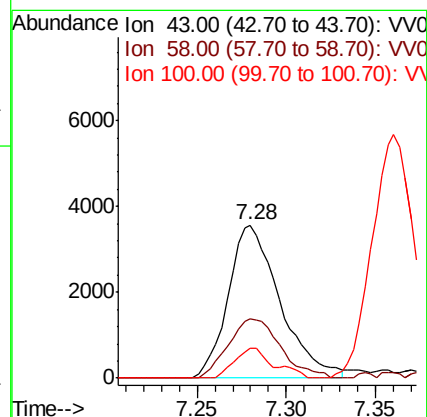
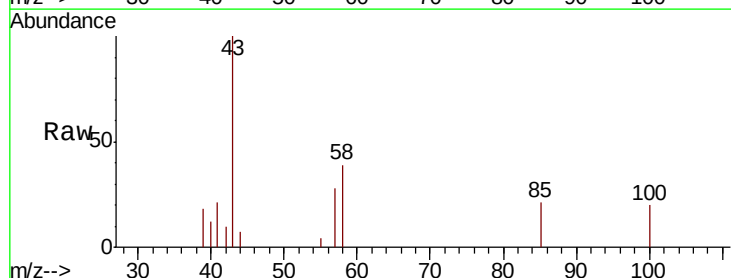
Tgt Ion: 75 Resp: 5866  
Ion Ratio Lower Upper  
75 100  
77 32.6 21.4 39.8

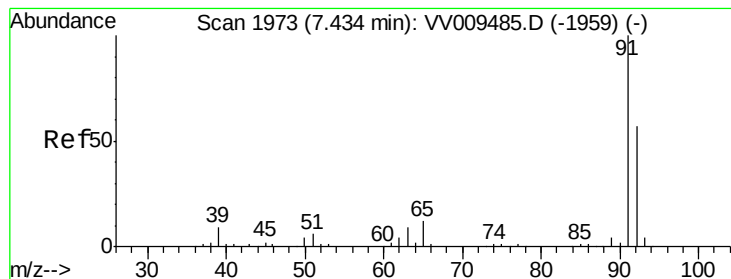


#43

4-Methyl-2-pentanone  
Concen: 5.709 ug/L  
RT: 7.28 min Scan# 1925  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Tgt Ion: 43 Resp: 7174  
Ion Ratio Lower Upper  
43 100  
58 39.2 31.9 47.9  
100 12.5 12.8 19.2#





#44

Toluene

Concen: 2.144 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampled :

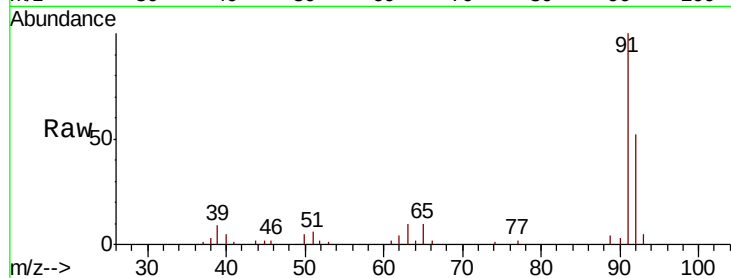
VSTD2.560

Tgt Ion: 91 Resp: 16966

Ion Ratio Lower Upper

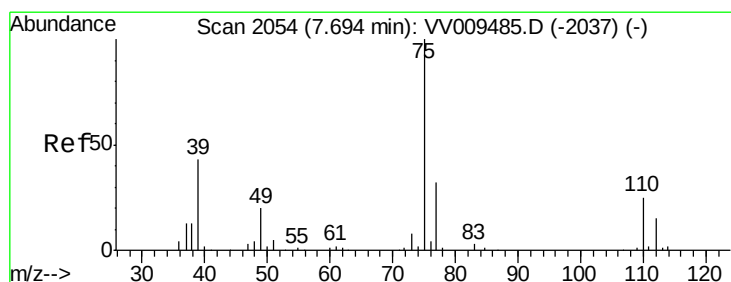
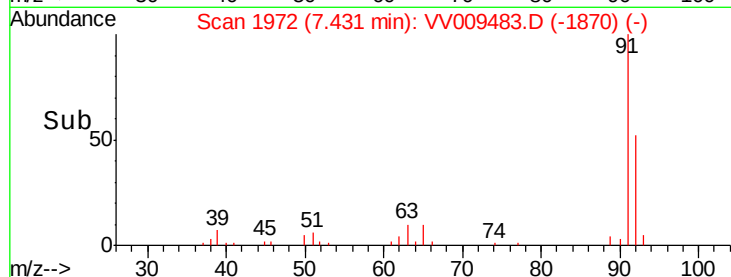
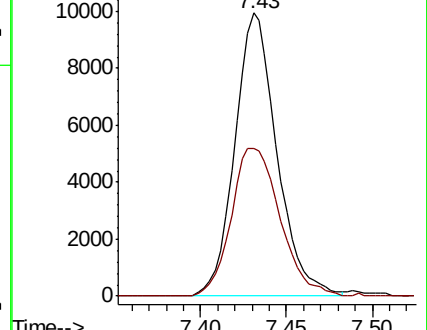
91 100

92 52.3 39.6 73.6



Abundance Ion 91.00 (90.70 to 91.70): VV009483.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009483.D (-1959) (-)



#45

trans-1,3-Dichloropropene

Concen: 1.993 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009483.D

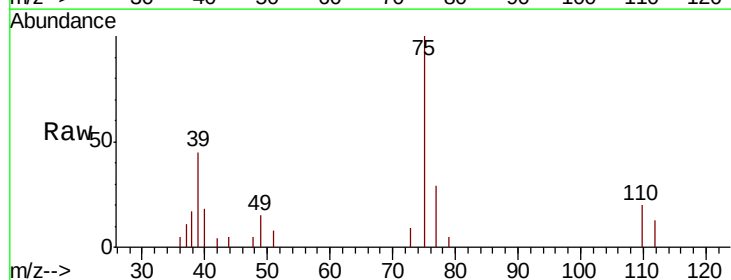
Acq: 05 Mar 2019 10:31

Tgt Ion: 75 Resp: 5045

Ion Ratio Lower Upper

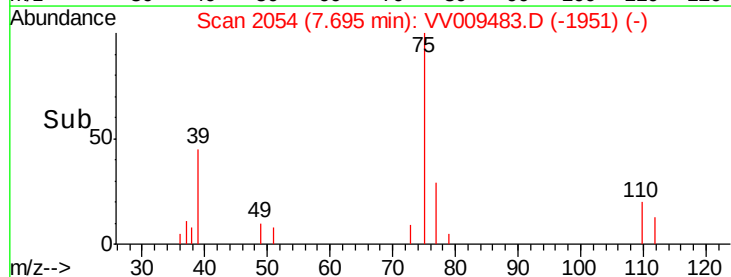
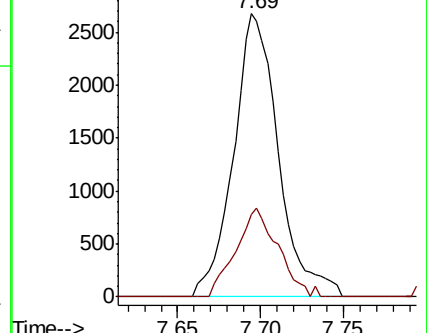
75 100

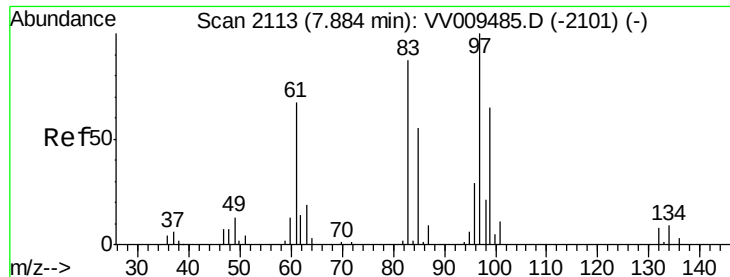
77 28.9 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VV009483.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV009483.D (-1951) (-)

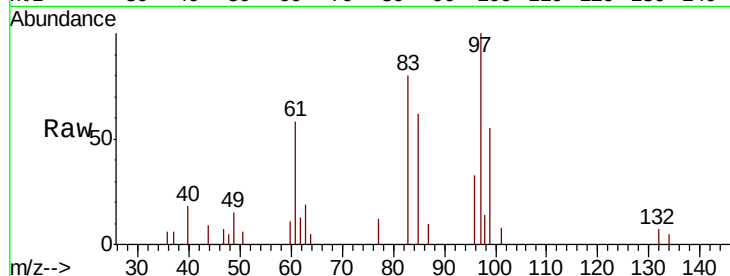




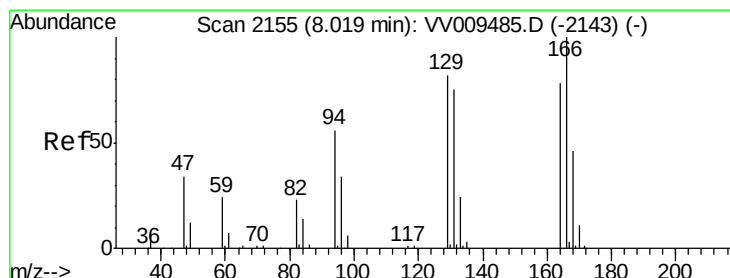
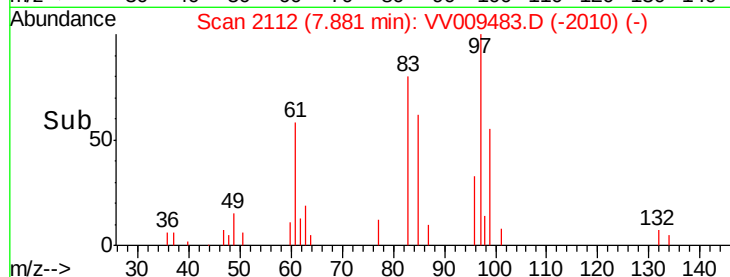
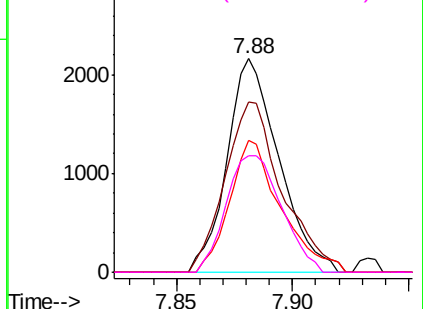
#46  
 1,1,2-Trichloroethane  
 Concen: 2.316 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. -0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 3363  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 79.7  | 63.8  | 118.6 |
| 85       | 61.9  | 39.5  | 73.4  |
| 99       | 54.7  | 45.9  | 85.3  |

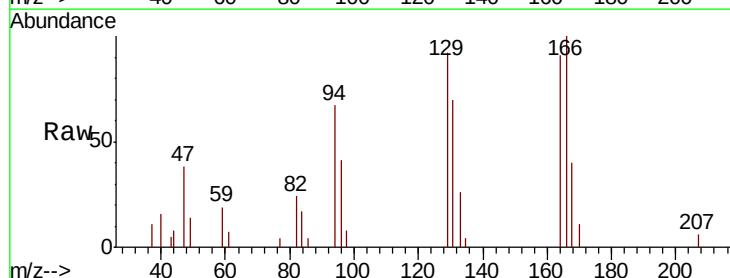


Abundance Ion 97.00 (96.70 to 97.70): VV009483.D (-2101) (-)

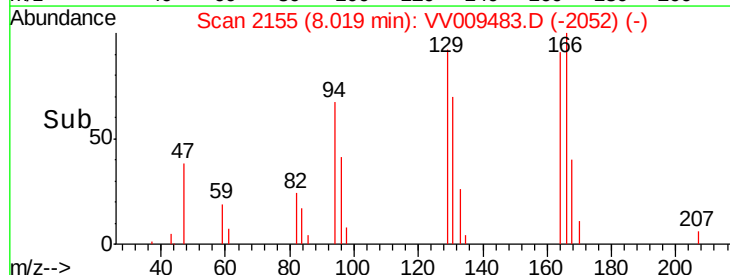
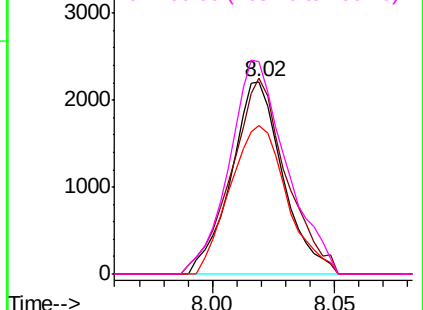


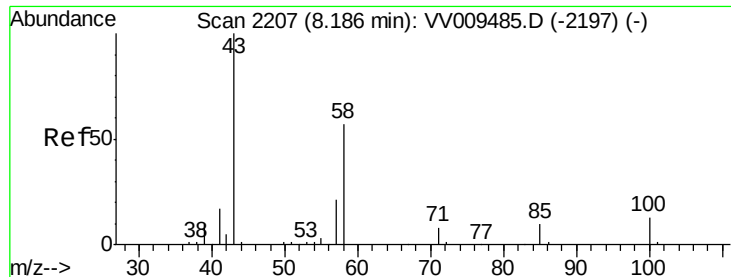
#47  
 Tetrachloroethene  
 Concen: 2.240 ug/L  
 RT: 8.02 min Scan# 2155  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 3250  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 101.6 | 67.7  | 125.7 |
| 131      | 77.4  | 67.5  | 125.3 |
| 166      | 110.0 | 81.6  | 151.6 |



Abundance Ion 164.00 (163.70 to 164.70): VV009483.D (-2143) (-)



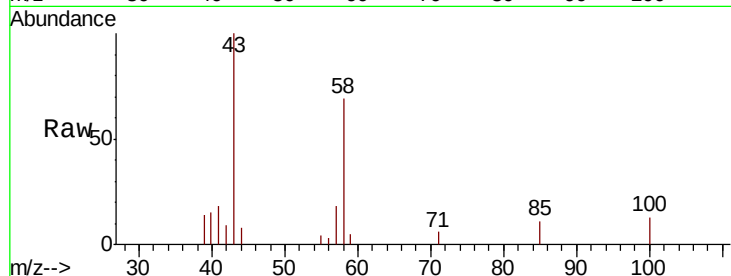


#49  
2-Hexanone  
Concen: 4.763 ug/L  
RT: 8.19 min Scan# 2209  
Delta R.T. 0.01 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

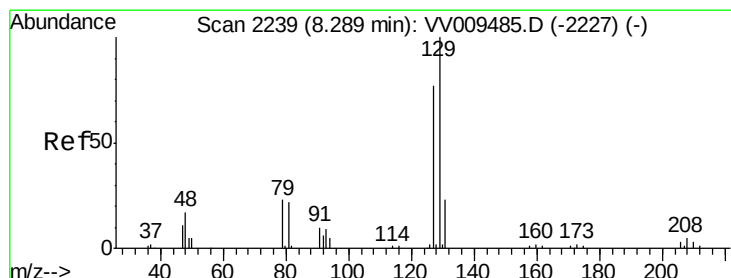
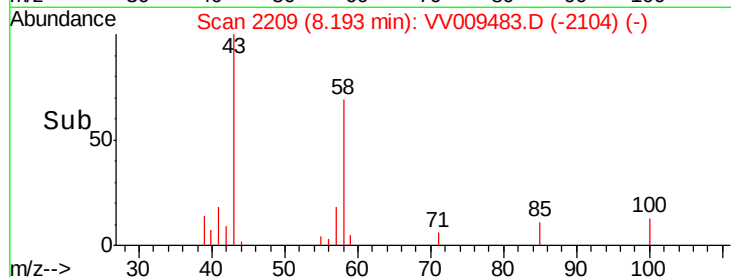
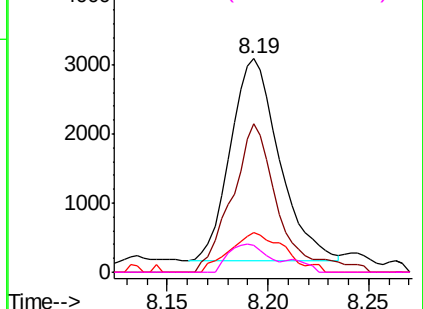
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

Tgt Ion: 43 Resp: 4998

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 65.1  | 46.3  | 69.5  |
| 57  | 20.9  | 15.8  | 23.6  |
| 100 | 11.0  | 10.0  | 15.0  |



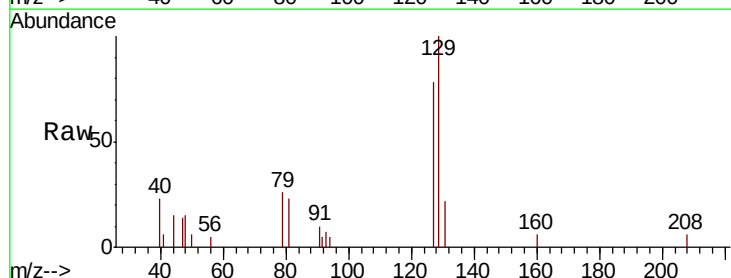
Abundance Ion 43.00 (42.70 to 43.70): VV009483.D (-2197) (-)  
Ion 58.00 (57.70 to 58.70): VV009483.D (-2197) (-)  
Ion 57.00 (56.70 to 57.70): VV009483.D (-2197) (-)  
Ion 100.00 (99.70 to 100.70): VV009483.D (-2197) (-)



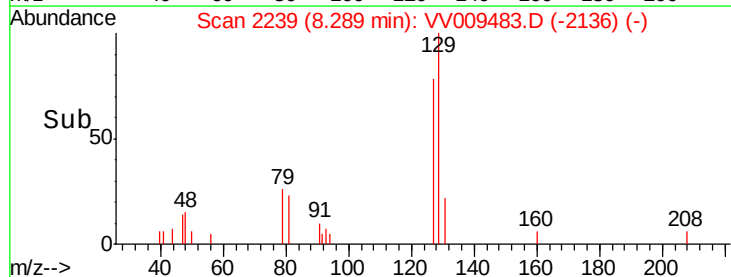
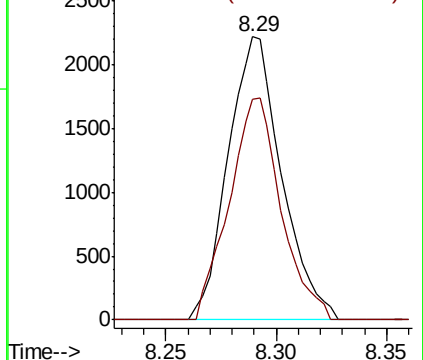
#50  
Dibromochloromethane  
Concen: 2.052 ug/L  
RT: 8.29 min Scan# 2239  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

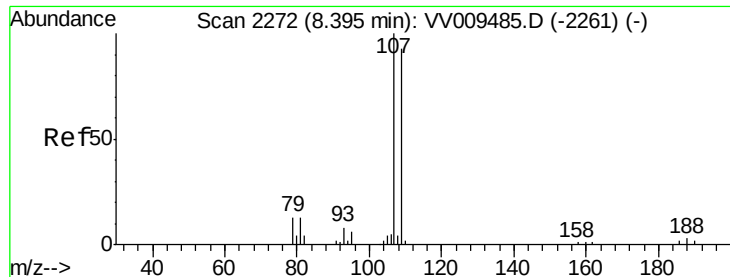
Tgt Ion: 129 Resp: 3727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.9  | 53.7  | 99.7  |



Abundance Ion 129.00 (128.70 to 129.70): VV009483.D (-2136) (-)  
Ion 127.00 (126.70 to 127.70): VV009483.D (-2136) (-)

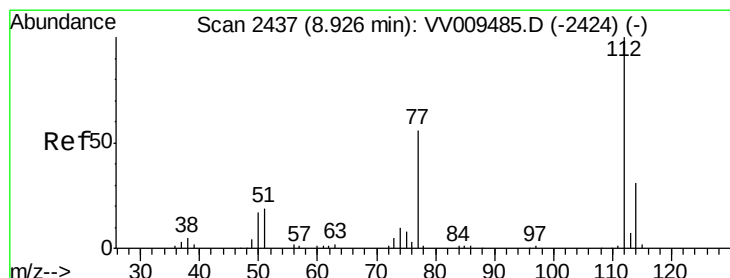
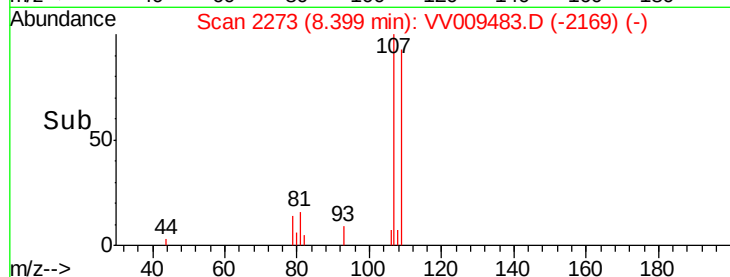
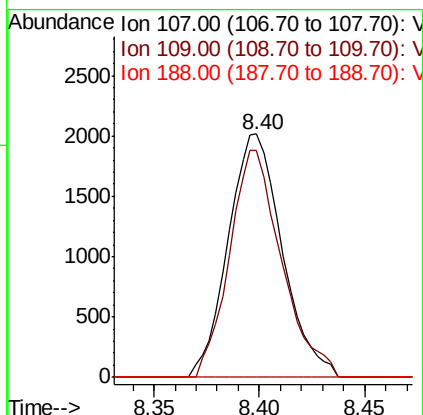
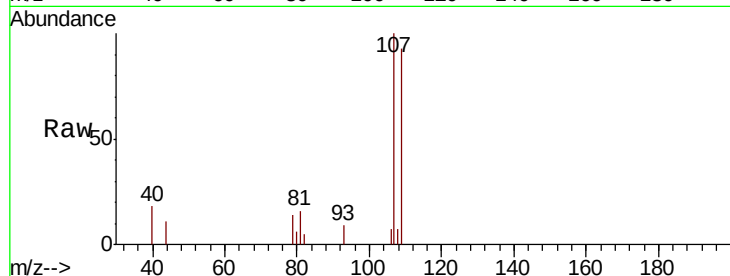




#51  
 1,2-Dibromoethane  
 Concen: 2.456 ug/L  
 RT: 8.40 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

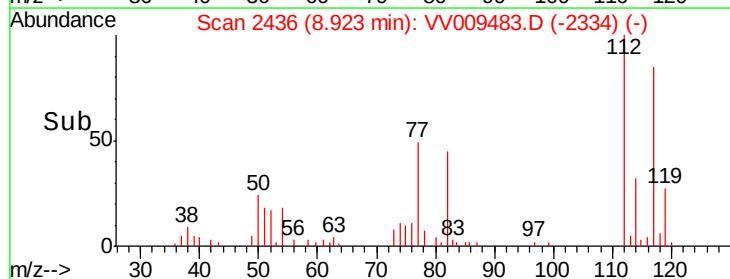
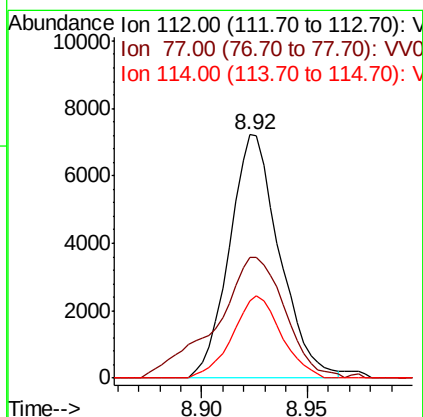
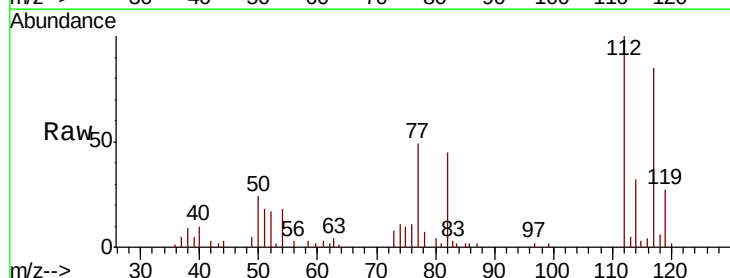
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

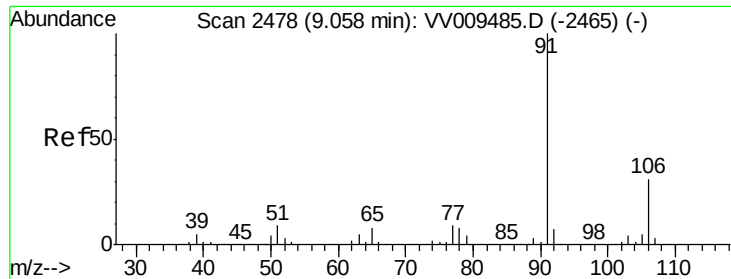
Tgt Ion:107 Resp: 3589  
 Ion Ratio Lower Upper  
 107 100  
 109 93.4 65.6 121.8  
 188 0.0 2.3 3.5#



#52  
 Chlorobenzene  
 Concen: 2.317 ug/L  
 RT: 8.92 min Scan# 2436  
 Delta R.T. -0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion:112 Resp: 11877  
 Ion Ratio Lower Upper  
 112 100  
 77 49.4 45.0 67.6  
 114 31.9 22.9 42.5





#53

Ethylbenzene

Concen: 2.105 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

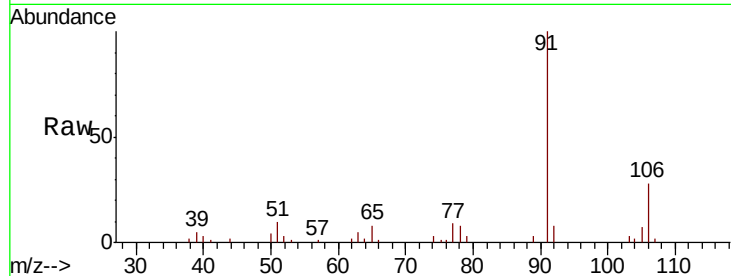
VSTD2.560

Tgt Ion: 91 Resp: 19048

Ion Ratio Lower Upper

91 100

106 27.7 23.0 42.6



Abundance Ion 91.00 (90.70 to 91.70): VV009483.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009483.D (-2465) (-)

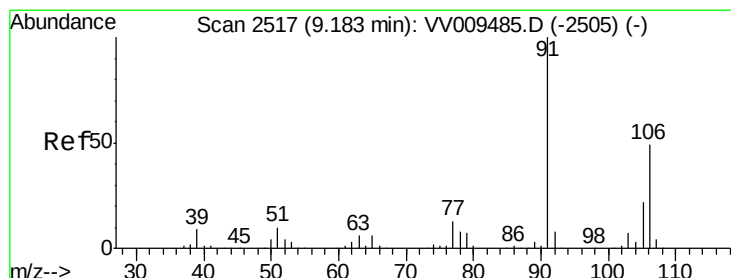
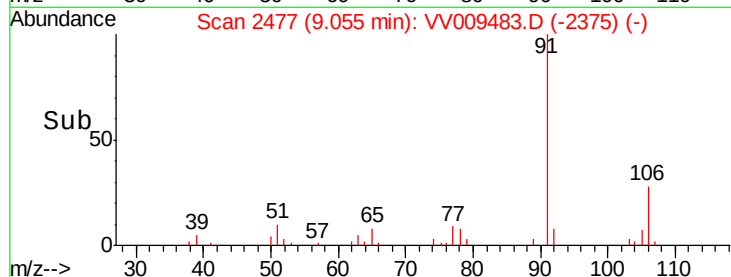
9.05

10000

5000

0

Time-->



#54

m,p-Xylene

Concen: 2.048 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009483.D

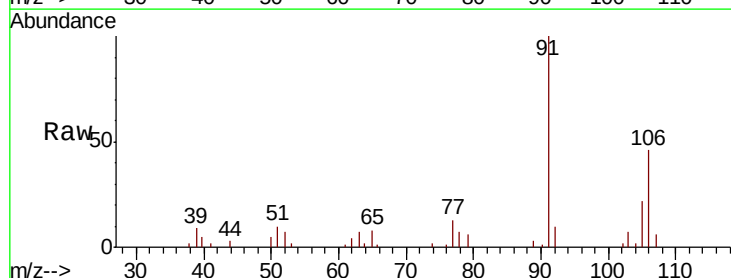
Acq: 05 Mar 2019 10:31

Tgt Ion: 106 Resp: 7219

Ion Ratio Lower Upper

106 100

91 216.5 138.5 257.1



Abundance Ion 106.00 (105.70 to 106.70): VV009483.D (-2505) (-)

Ion 91.00 (90.70 to 91.70): VV009483.D (-2505) (-)

9.18

10000

8000

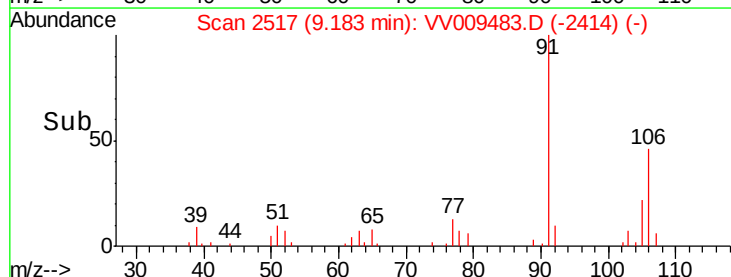
6000

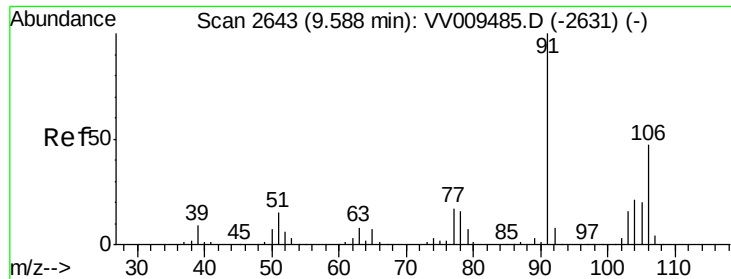
4000

2000

0

Time-->

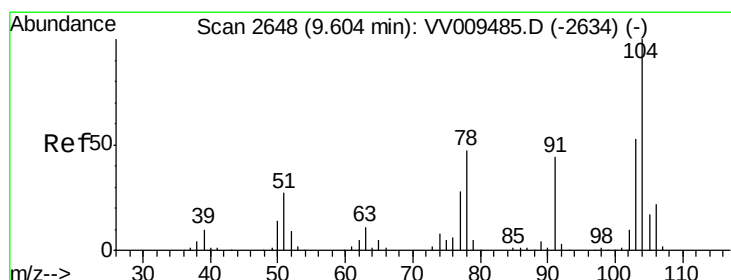
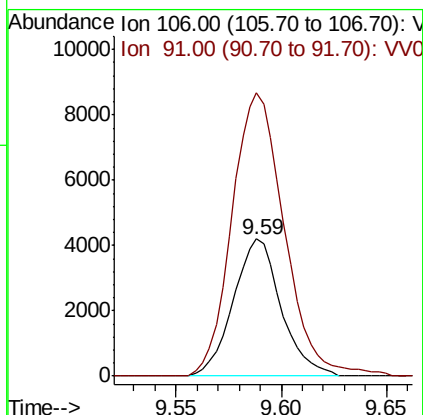
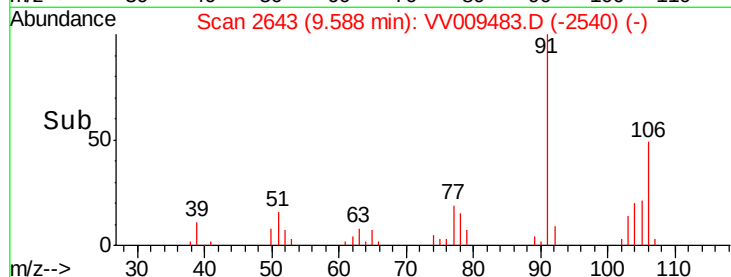
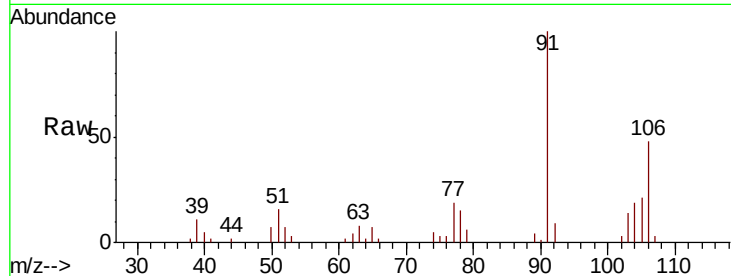




#55  
o-xylene  
Concen: 1.986 ug/L  
RT: 9.59 min Scan# 2643  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

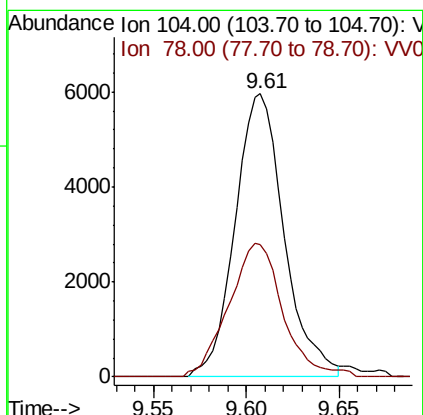
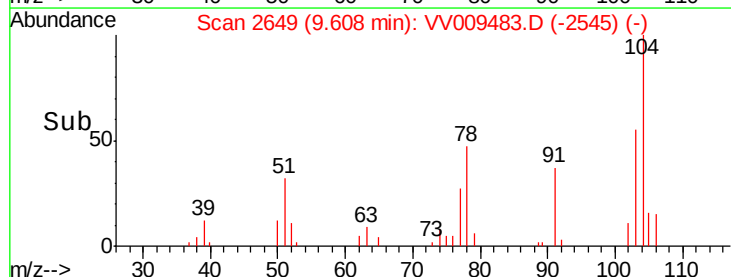
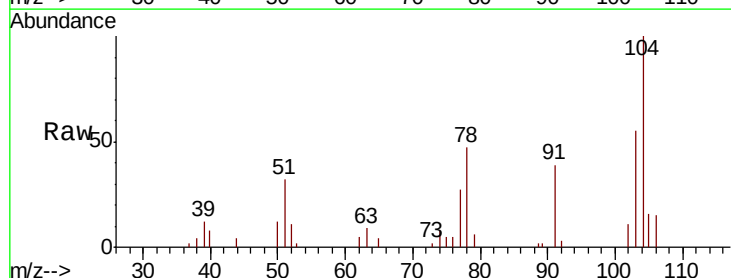
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD2.560

Tgt Ion:106 Resp: 6638  
Ion Ratio Lower Upper  
106 100  
91 206.5 143.8 267.0

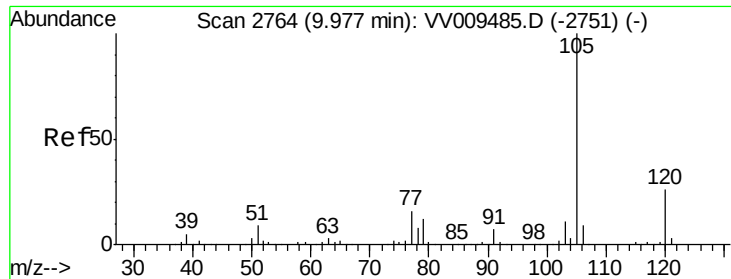


#56  
Styrene  
Concen: 1.955 ug/L  
RT: 9.61 min Scan# 2649  
Delta R.T. 0.00 min  
Lab File: VV009483.D  
Acq: 05 Mar 2019 10:31

Tgt Ion:104 Resp: 10960  
Ion Ratio Lower Upper  
104 100  
78 46.7 32.7 60.7







#57

Isopropylbenzene

Concen: 2.119 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

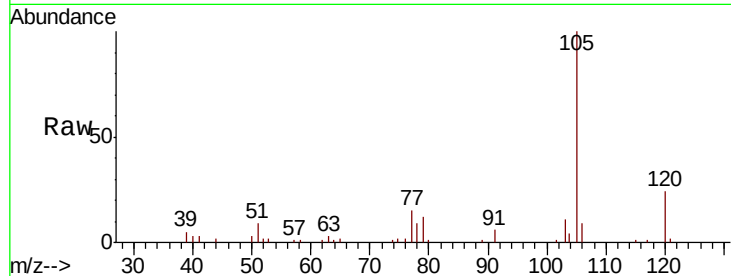
Tgt Ion:105 Resp: 19354

Ion Ratio Lower Upper

105 100

120 25.2 21.4 32.2

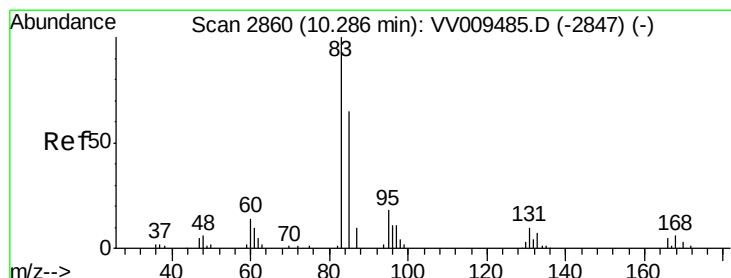
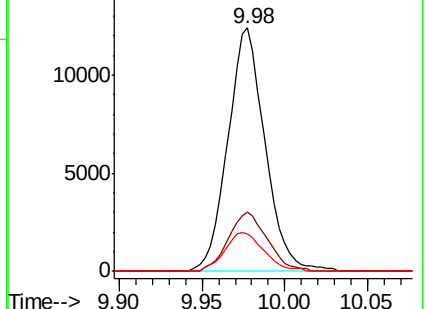
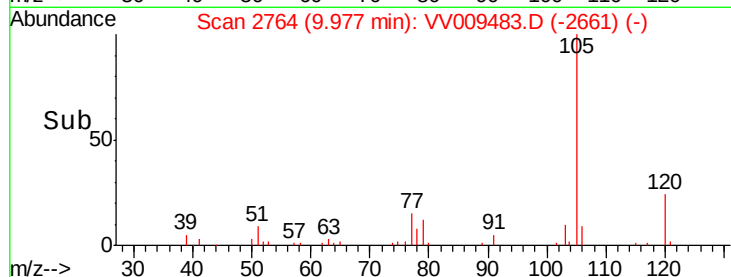
77 16.7 12.8 19.2



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: 2.341 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

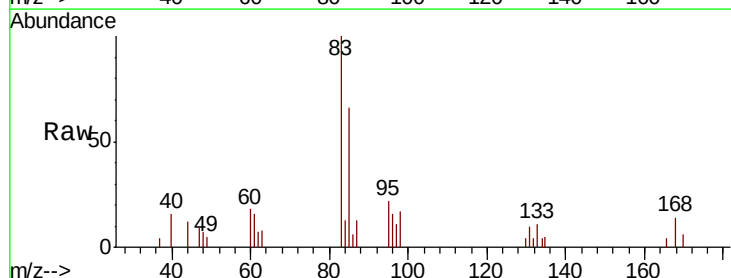
Tgt Ion: 83 Resp: 4622

Ion Ratio Lower Upper

83 100

85 65.9 44.7 83.1

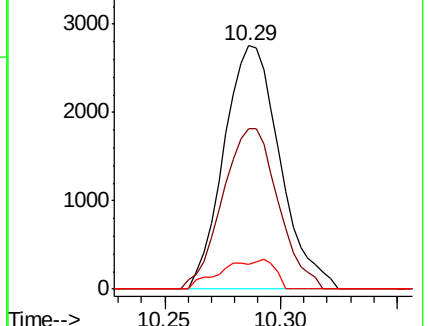
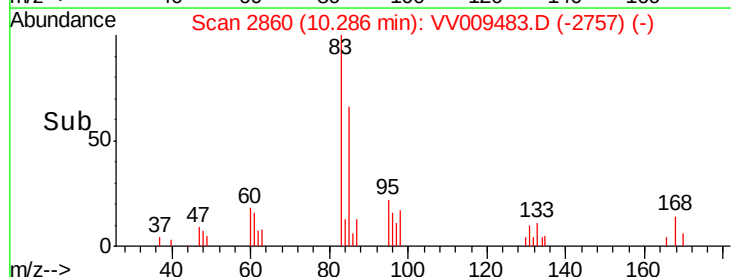
131 10.4 7.0 10.6

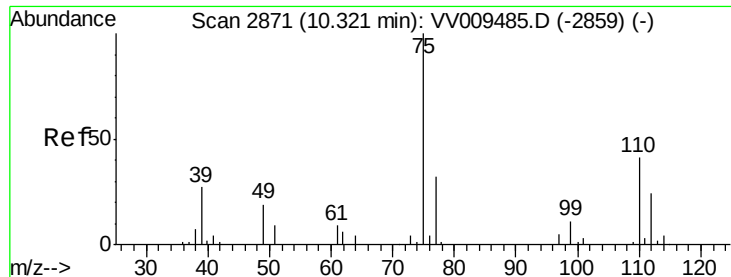


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

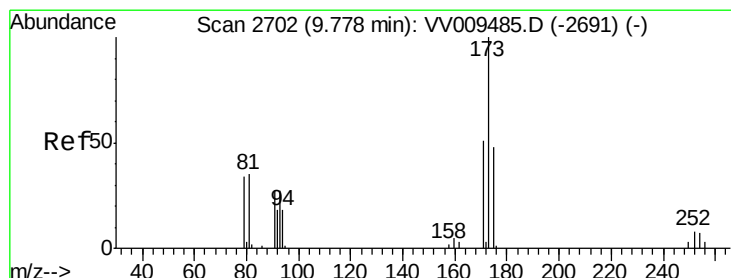
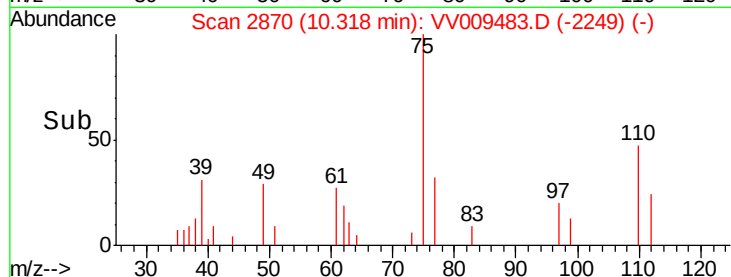
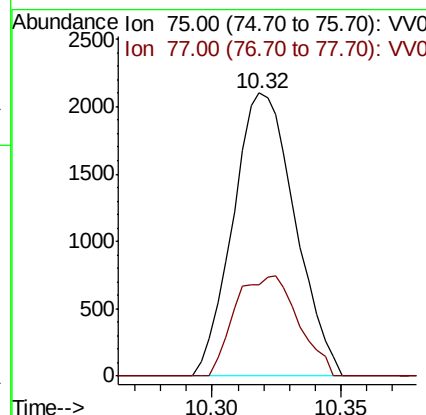
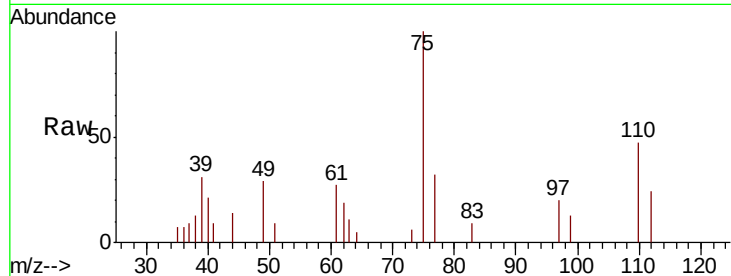




#59  
 1,2,3-Trichloropropane  
 Concen: 2.507 ug/L  
 RT: 10.32 min Scan# 2870  
 Delta R.T. -0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

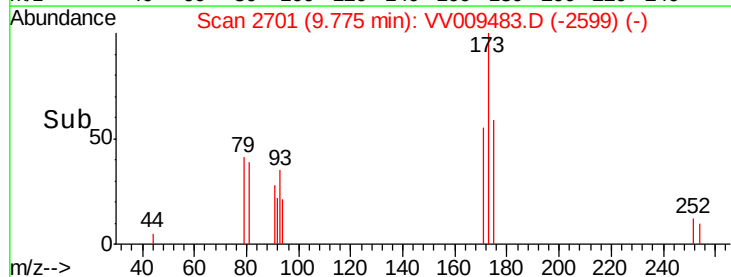
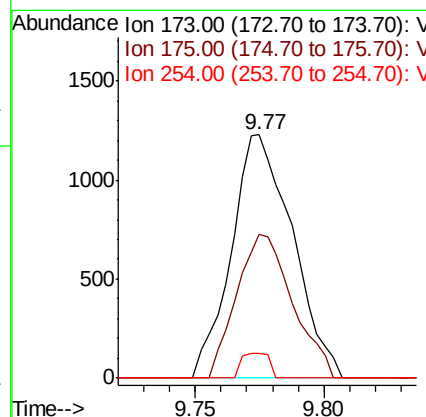
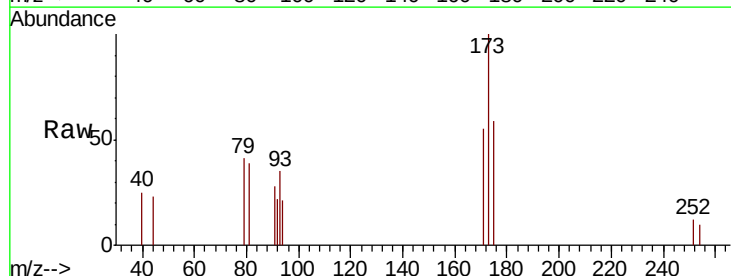
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

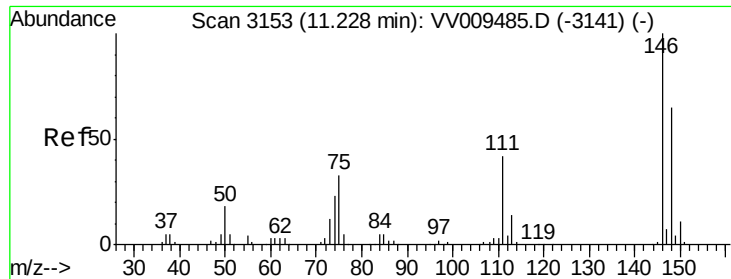
Tgt Ion: 75 Resp: 3525  
 Ion Ratio Lower Upper  
 75 100  
 77 16.2 25.9 38.9#



#62  
 Bromoform  
 Concen: 1.970 ug/L  
 RT: 9.77 min Scan# 2701  
 Delta R.T. -0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion: 173 Resp: 2032  
 Ion Ratio Lower Upper  
 173 100  
 175 54.1 38.8 58.2  
 254 3.4 5.8 8.8#

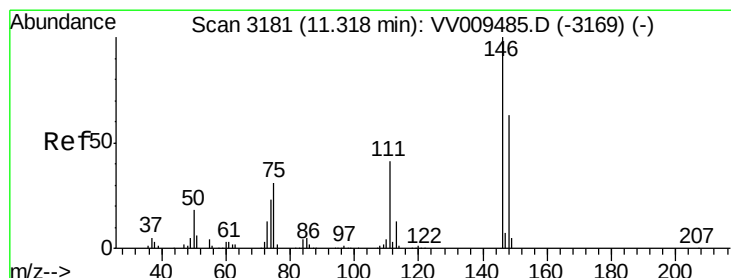
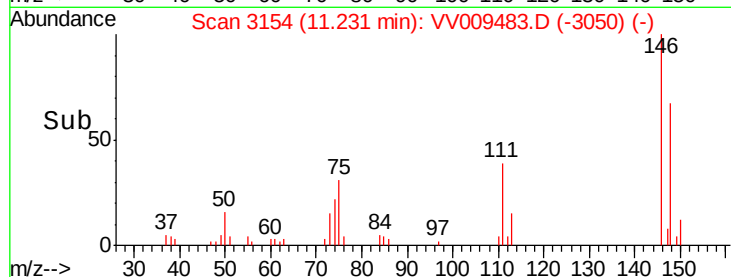
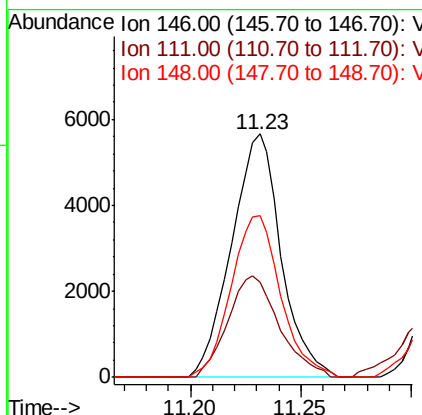
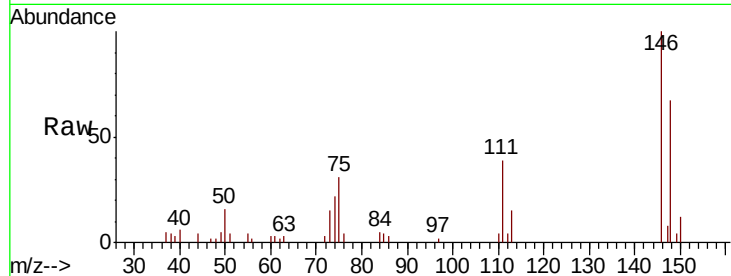




#63  
 1,3-Dichlorobenzene  
 Concen: 2.400 ug/L  
 RT: 11.23 min Scan# 3154  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

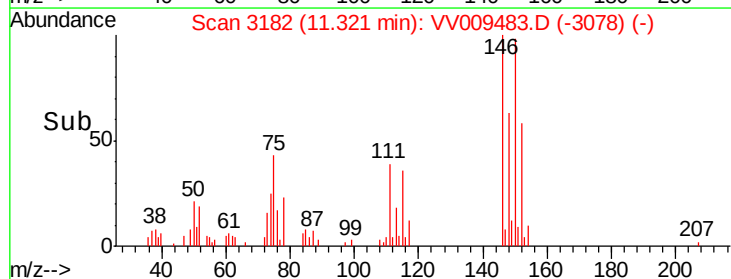
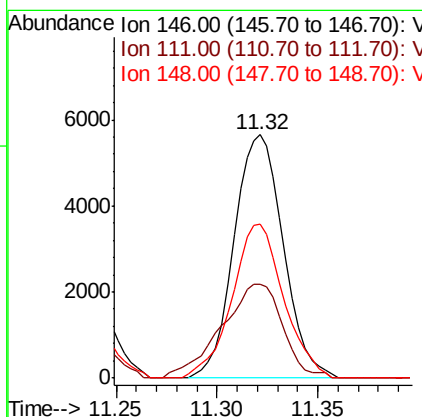
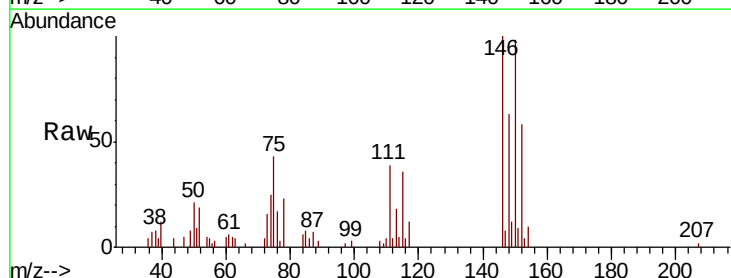
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

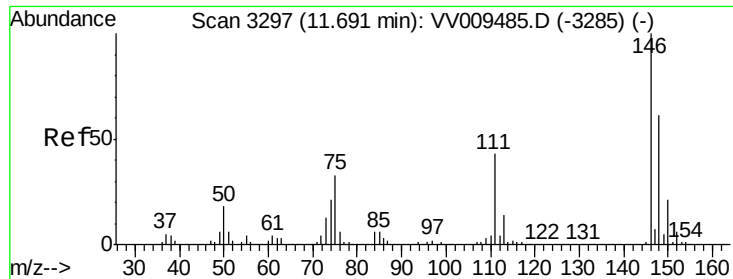
Tgt Ion:146 Resp: 8852  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 29.6 55.0  
 148 66.6 44.8 83.2



#64  
 1,4-Dichlorobenzene  
 Concen: 2.623 ug/L  
 RT: 11.32 min Scan# 3182  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Tgt Ion:146 Resp: 9657  
 Ion Ratio Lower Upper  
 146 100  
 111 38.7 29.2 54.2  
 148 63.1 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 2.375 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

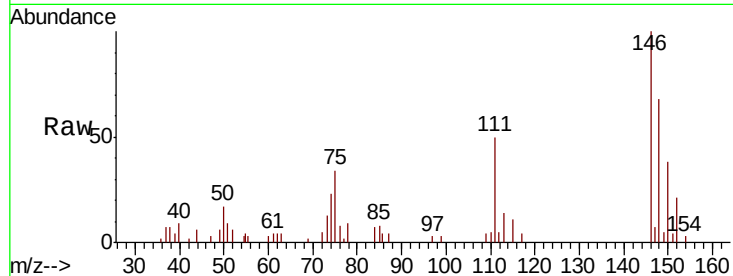
Tgt Ion:146 Resp: 8232

Ion Ratio Lower Upper

146 100

111 49.9 35.4 53.0

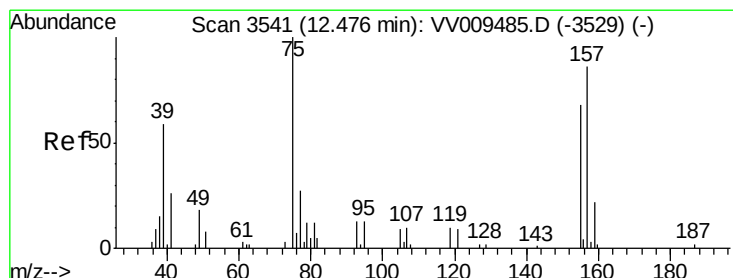
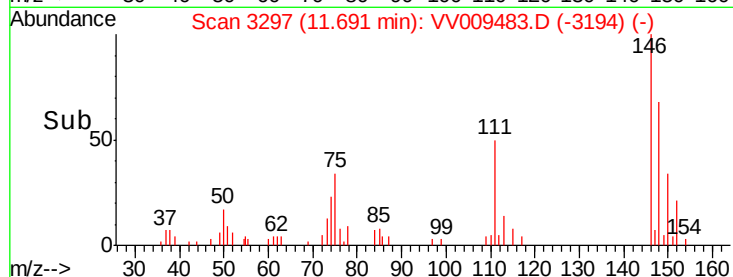
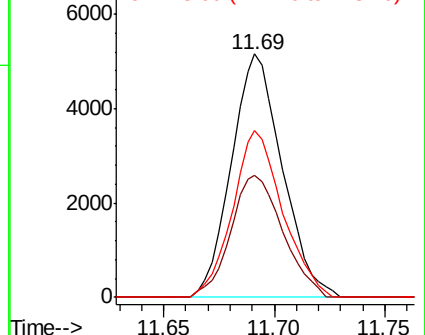
148 68.4 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 3.928 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.22 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

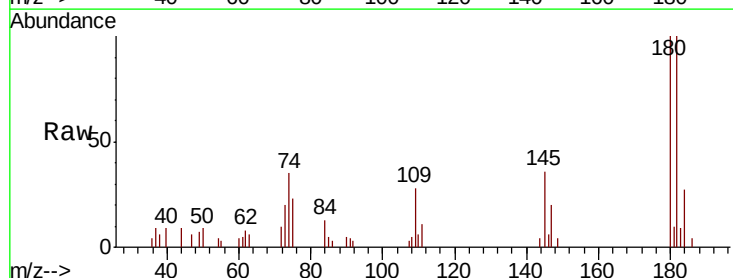
Tgt Ion: 75 Resp: 1344

Ion Ratio Lower Upper

75 100

157 0.0 81.0 121.4#

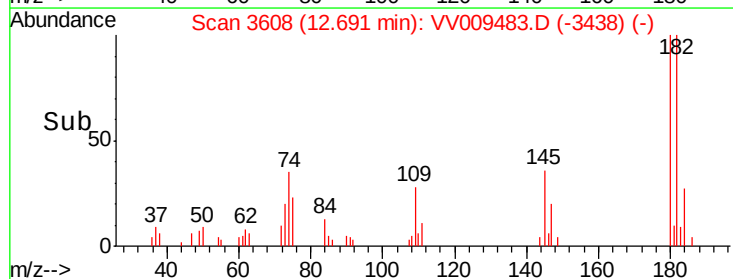
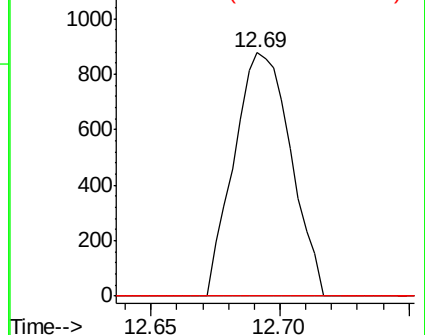
155 0.0 61.2 91.8#

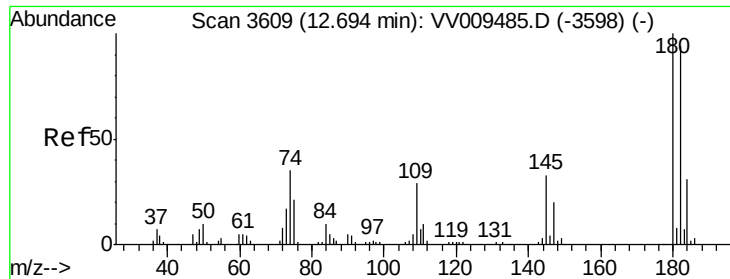


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

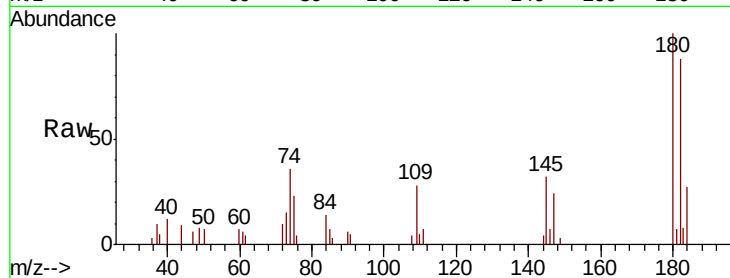




#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.982 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. 0.62 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD2.560

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5162  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.0  | 75.4  | 113.2 |
| 184      | 27.1  | 23.9  | 35.9  |
| 145      | 30.9  | 26.0  | 39.0  |



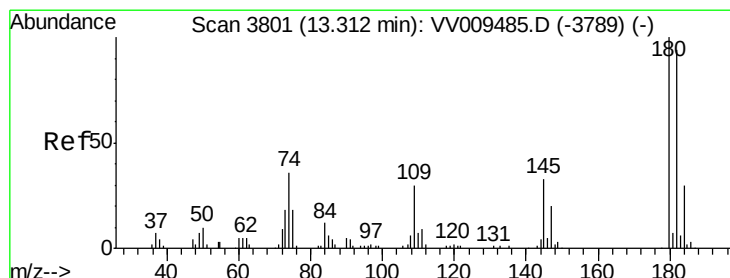
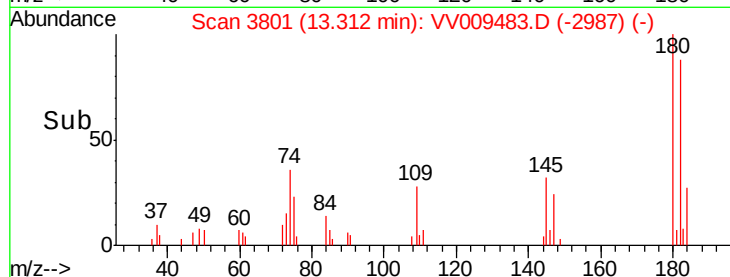
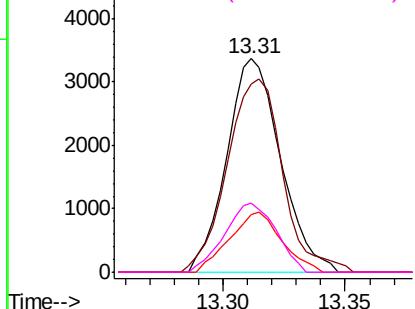
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

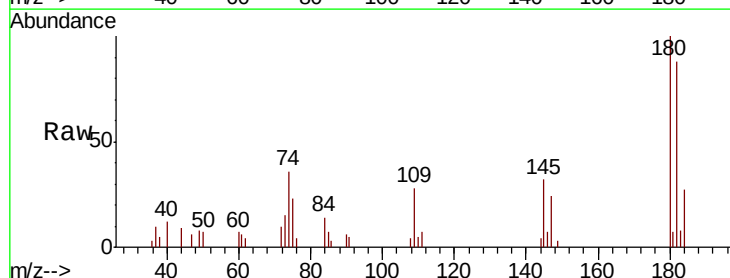
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 2.553 ug/L  
 RT: 13.31 min Scan# 3801  
 Delta R.T. 0.00 min  
 Lab File: VV009483.D  
 Acq: 05 Mar 2019 10:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5162  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.0  | 75.9  | 113.9 |
| 145      | 30.9  | 26.2  | 39.4  |

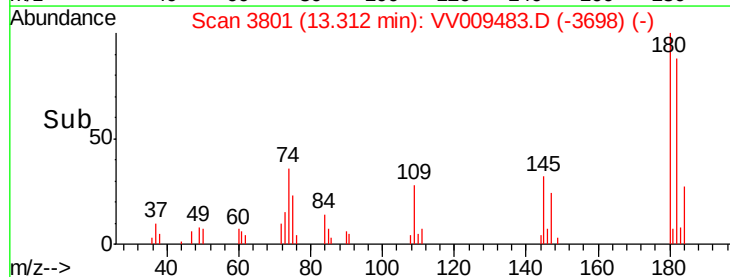
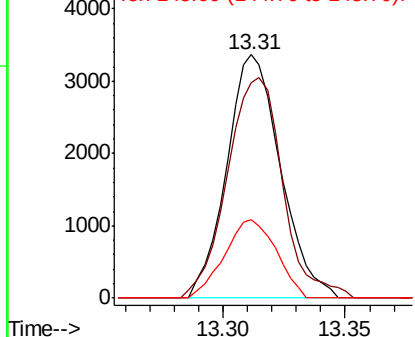


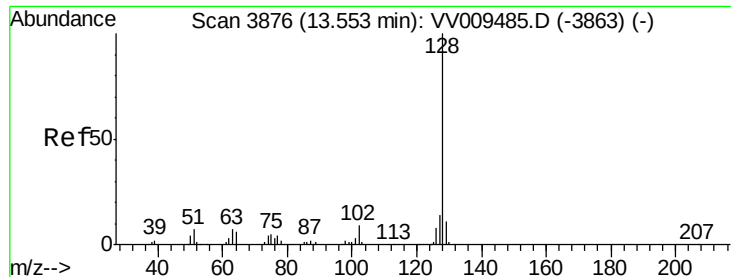
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 2.394 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

Instrument :

MSVOA\_V

ClientSampleId :

VSTD2.560

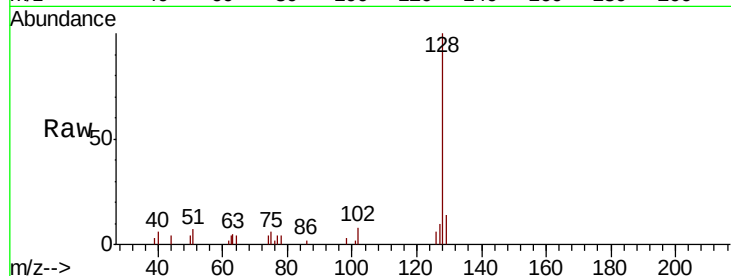
Tgt Ion:128 Resp: 9801

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

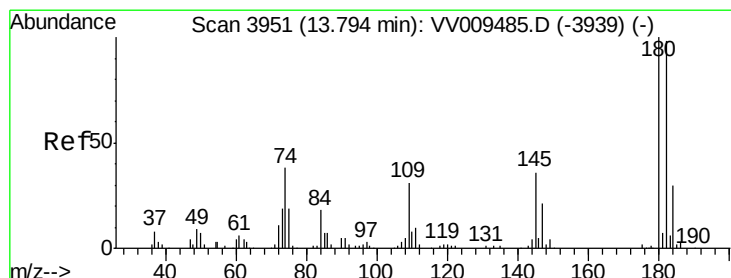
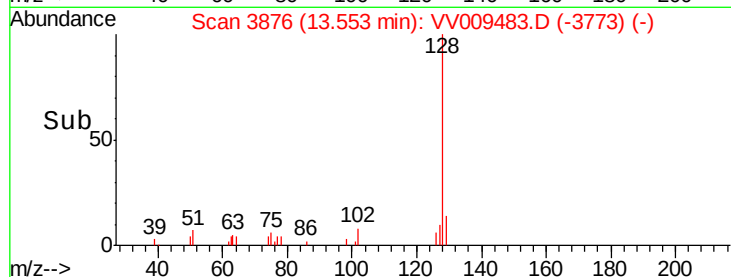
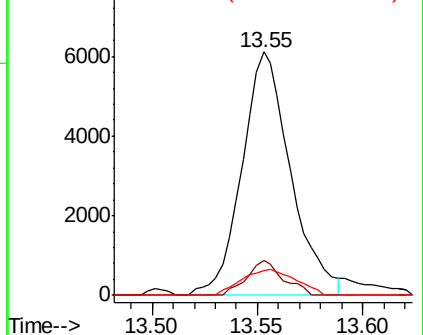
127 11.8 10.6 16.0



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: 2.462 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009483.D

Acq: 05 Mar 2019 10:31

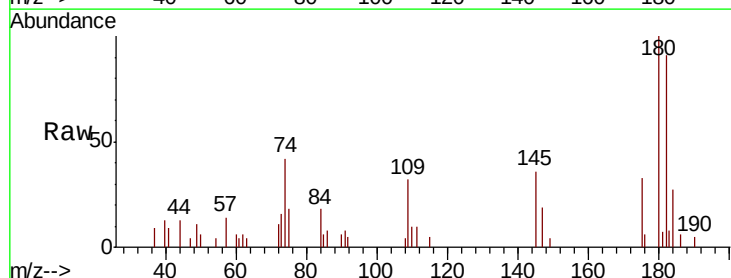
Tgt Ion:180 Resp: 4614

Ion Ratio Lower Upper

180 100

182 95.9 74.2 111.2

145 36.4 27.7 41.5



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

