

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
 Data File : VV012726.D  
 Acq On : 13 Sep 2019 09:32  
 Operator : SY/MD  
 Sample : VSTD01064  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 13 18:26:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 13 18:23:46 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 700755   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 681894   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 297236   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 53979  | 13.59 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 49932  | 14.05 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 97201  | 12.58 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 98746  | 23.98 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 128449 | 13.05 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 79603  | 13.34 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 231022 | 12.70 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 83170  | 12.95 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 200835 | 12.06 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 31650  | 11.83 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.13  | 63  | 42316  | 17.18 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 92319  | 11.24 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 87649  | 12.92 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 39981  | 8.522 ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50  | 41766  | 8.532 ug/L  | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 43966  | 8.982 ug/L  | 98     |
| 6) Bromomethane                | 1.53 | 94  | 24363  | 8.849 ug/L  | 97     |
| 8) Chloroethane                | 1.60 | 64  | 26412  | 8.638 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 58678  | 8.543 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 35605  | 8.397 ug/L  | 98     |
| 13) Acetone                    | 2.19 | 43  | 63794  | 18.765 ug/L | 98     |
| 14) Carbon disulfide           | 2.32 | 76  | 67281  | 8.347 ug/L  | 100    |
| 15) Methyl Acetate             | 2.46 | 43  | 45240  | 8.383 ug/L  | 98     |
| 16) Methylene chloride         | 2.53 | 84  | 40390  | 8.334 ug/L  | 92     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 31499  | 7.801 ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 105287 | 7.560 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 71783  | 8.225 ug/L  | 97     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 38051  | 7.617 ug/L  | 98     |
| 22) 2-Butanone                 | 4.02 | 43  | 63415  | 15.014 ug/L | 95     |
| 23) Bromochloromethane         | 4.30 | 128 | 20839  | 8.211 ug/L  | 96     |
| 25) Chloroform                 | 4.42 | 83  | 77546  | 8.458 ug/L  | 98     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 55301  | 8.059 ug/L  | 97     |
| 29) Cyclohexane                | 4.73 | 56  | 43892  | 6.780 ug/L  | 97     |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 56395  | 7.909 ug/L  | 99     |
| 31) Carbon tetrachloride       | 4.88 | 117 | 46733  | 7.612 ug/L  | 97     |
| 33) Benzene                    | 5.15 | 78  | 144293 | 7.779 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 46087  | 8.548 ug/L  | 97     |
| 35) Methylcyclohexane          | 6.18 | 83  | 46008  | 6.764 ug/L  | 95     |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 43447  | 8.145 ug/L  | 97     |
| 38) Bromodichloromethane       | 6.55 | 83  | 53050  | 7.726 ug/L  | 97     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 49436  | 6.620 ug/L  | 99     |
| 40) 4-Methyl-2-pentanone       | 7.27 | 43  | 96913  | 13.128 ug/L | 97     |
| 42) Toluene                    | 7.43 | 91  | 140954 | 7.318 ug/L  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
 Data File : VV012726.D  
 Acq On : 13 Sep 2019 09:32  
 Operator : SY/MD  
 Sample : VSTD01064  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

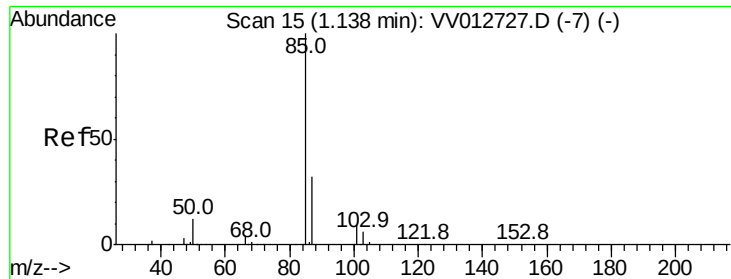
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Sep 13 18:26:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 13 18:23:46 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 46223    | 7.020  | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 42201    | 8.109  | ug/L  | 96       |
| 46) Tetrachloroethene          | 8.02  | 164  | 28808    | 7.703  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.18  | 43   | 90885    | 14.974 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.29  | 129  | 40798    | 7.482  | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 38402    | 7.660  | ug/L  | 94       |
| 51) Chlorobenzene              | 8.92  | 112  | 104154   | 7.892  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.05  | 91   | 147117   | 6.948  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 51749    | 6.636  | ug/L  | 98       |
| 54) o-xylene                   | 9.59  | 106  | 51331    | 6.484  | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 85789    | 6.389  | ug/L  | 96       |
| 56) Isopropylbenzene           | 9.97  | 105  | 132194   | 6.355  | ug/L  | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 49891    | 7.021  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 52430    | 7.722  | ug/L  | 99       |
| 61) Bromoform                  | 9.77  | 173  | 28268    | 7.876  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 70713    | 7.702  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 75073    | 7.972  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 76717    | 7.947  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 8454     | 6.560  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 49684    | 7.325  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 37822    | 6.600  | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 94417    | 5.699  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 41563    | 6.681  | ug/L  | 100      |

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





#2

Dichlorodifluoromethane

Concen: 8.522 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

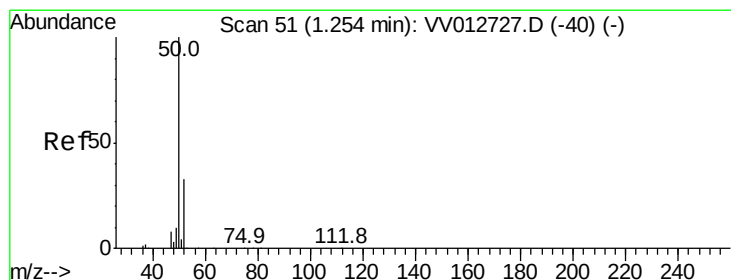
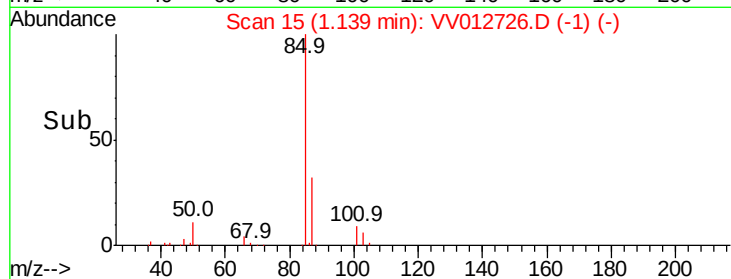
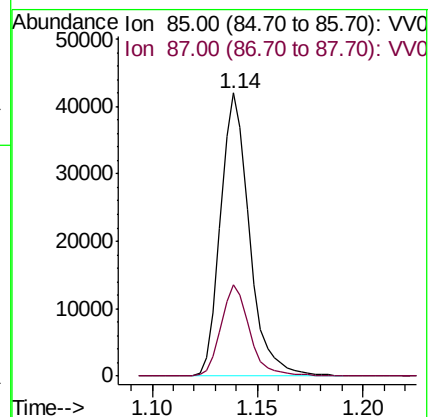
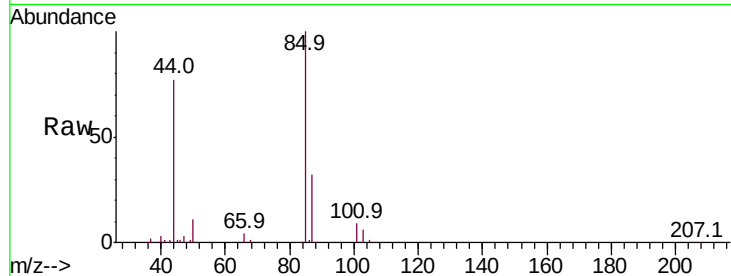
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 39981

Ion Ratio Lower Upper

85 100

87 32.2 25.8 38.6



#3

Chloromethane

Concen: 8.532 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012726.D

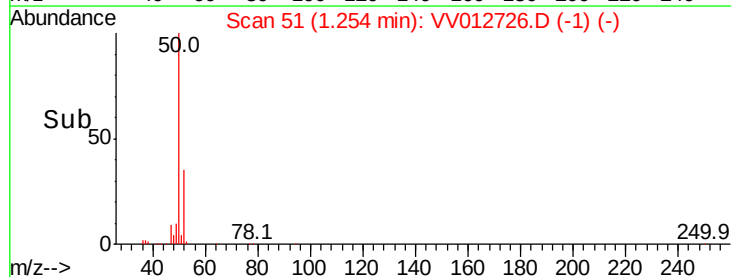
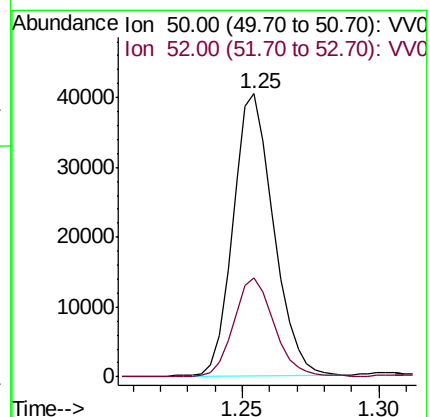
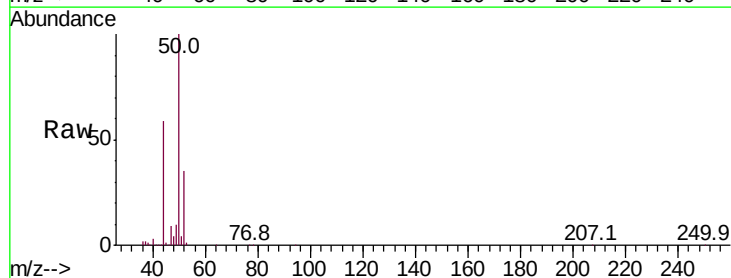
Acq: 13 Sep 2019 09:32

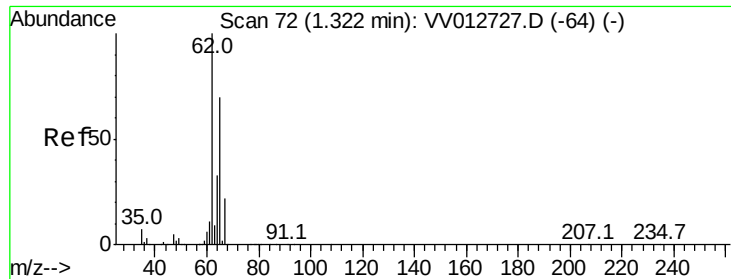
Tgt Ion: 50 Resp: 41766

Ion Ratio Lower Upper

50 100

52 34.8 23.4 43.4





#5

Vinyl chloride

Concen: 8.982 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

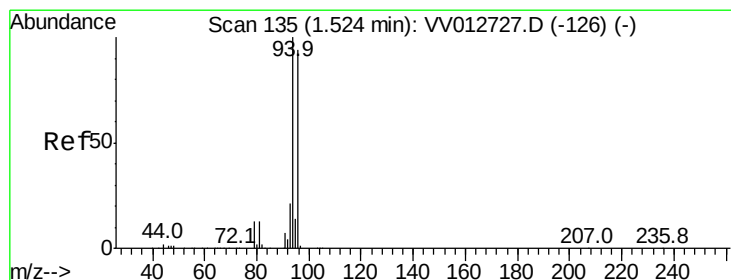
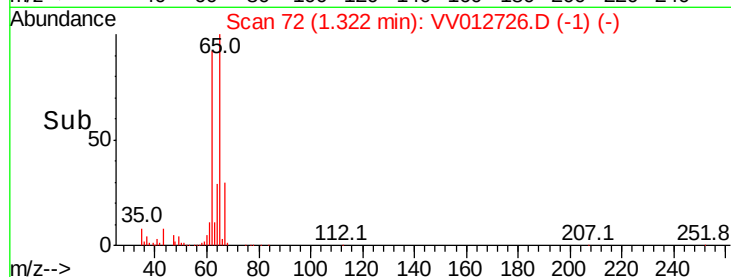
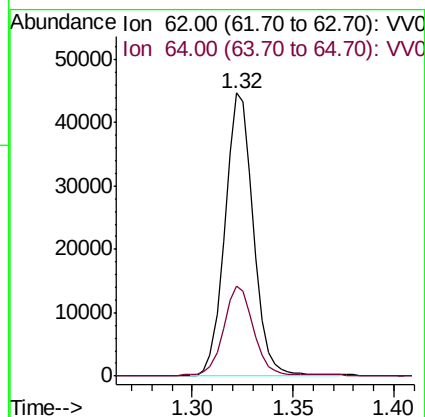
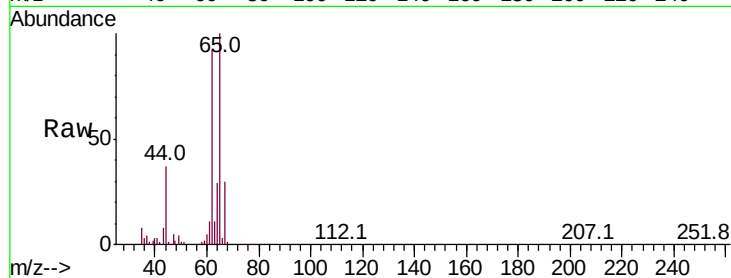
ClientSampled :

Tot Ion: 62 Resp: 43966

Ion Ratio Lower Upper

62 100

64 32.0 23.2 43.2



#6

Bromomethane

Concen: 8.849 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.01 min

Lab File: VV012726.D

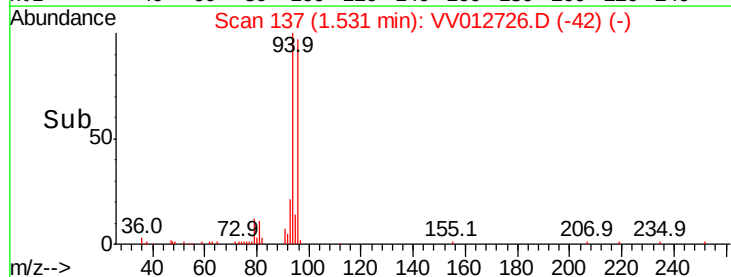
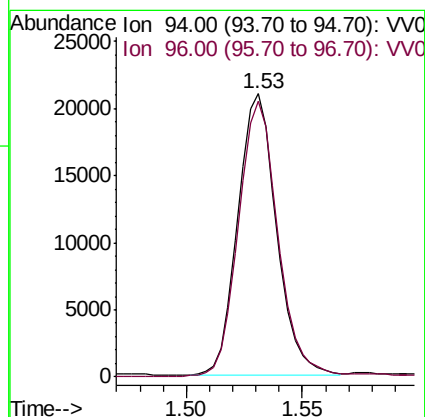
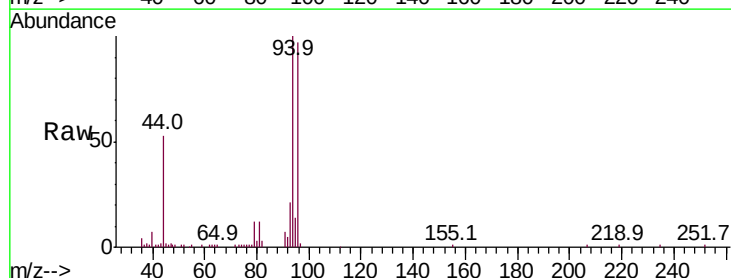
Acq: 13 Sep 2019 09:32

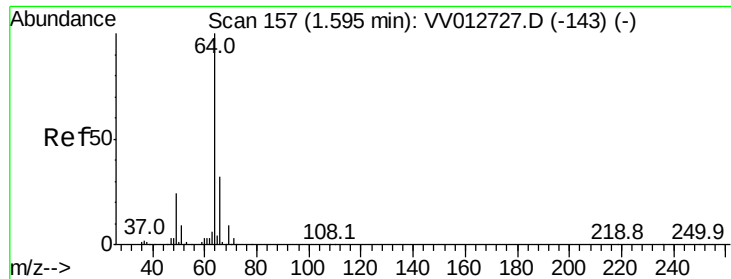
Tgt Ion: 94 Resp: 24363

Ion Ratio Lower Upper

94 100

96 97.2 65.9 122.3





#8

Chloroethane

Concen: 8.638 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

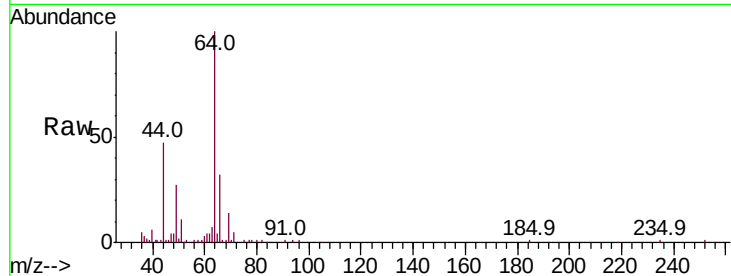
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 64 Resp: 26412

Ion Ratio Lower Upper

64 100

66 32.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VV012727.D (-143) (-)

Ion 66.00 (65.70 to 66.70): VV012727.D (-143) (-)

1.60

25000

20000

15000

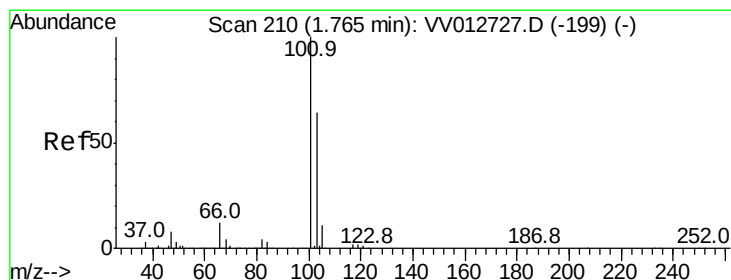
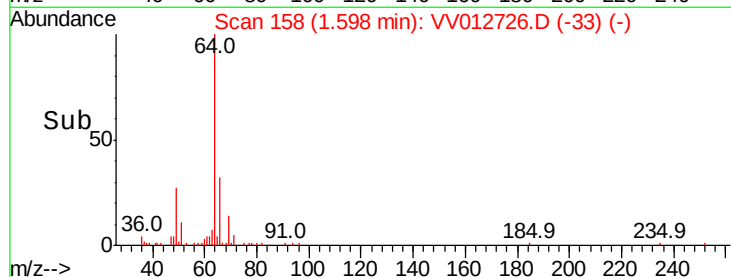
10000

5000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 8.543 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012726.D

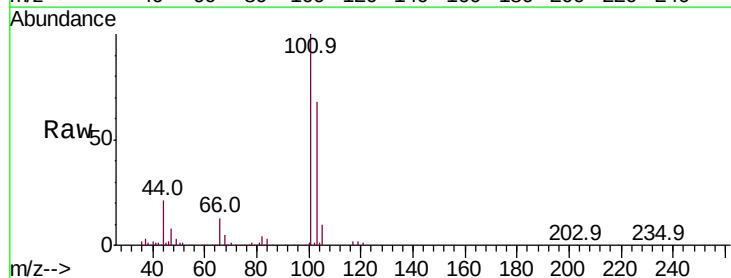
Acq: 13 Sep 2019 09:32

Tgt Ion: 101 Resp: 58678

Ion Ratio Lower Upper

101 100

103 65.4 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VV012727.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV012727.D (-199) (-)

1.77

50000

40000

30000

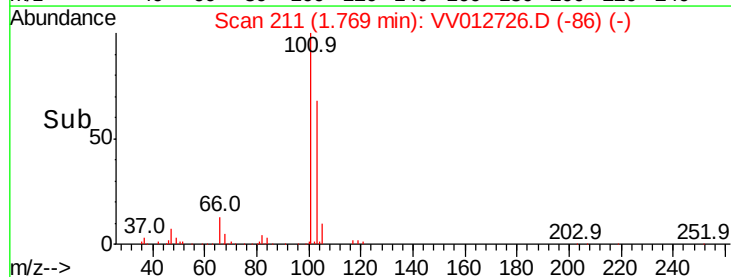
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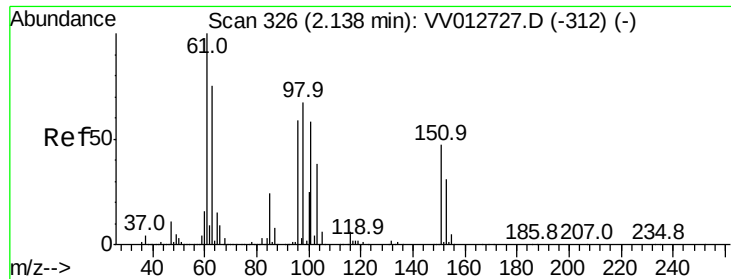
10000

0

Time-->

1.70 1.75 1.80





#10

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

Concen: 8.397 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

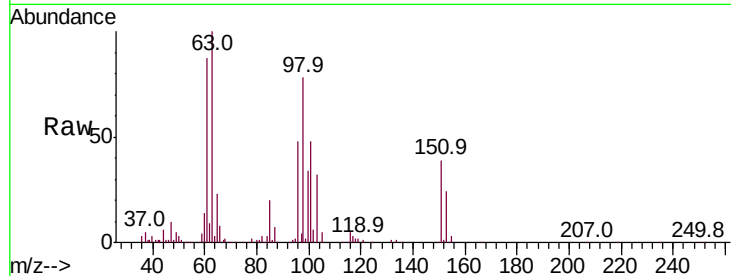
Tot Ion:101 Resp: 35605

Ion Ratio Lower Upper

101 100

85 42.1 32.7 49.1

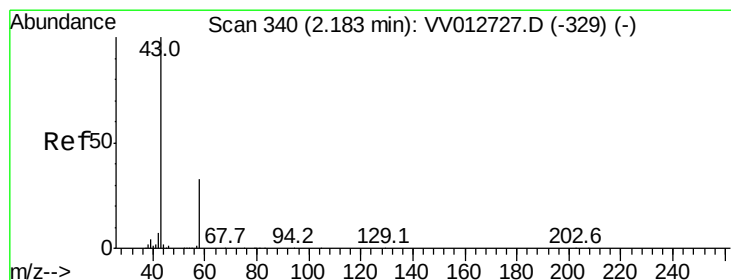
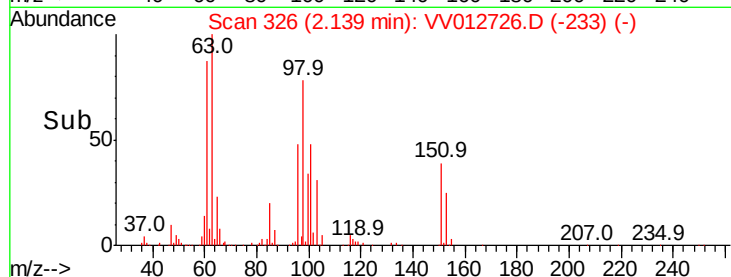
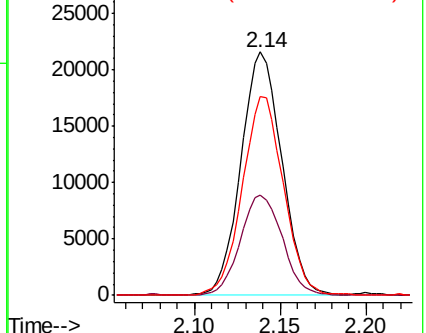
151 82.4 65.0 97.4



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



#13

Acetone

Concen: 18.765 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012726.D

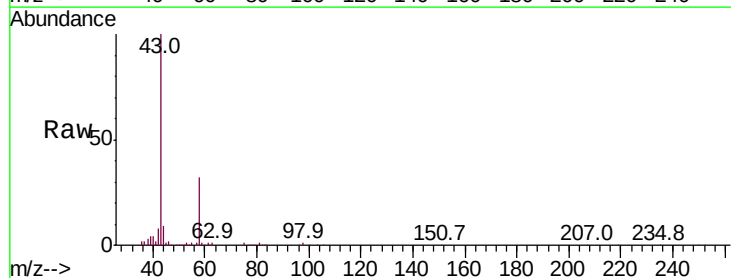
Acq: 13 Sep 2019 09:32

Tgt Ion: 43 Resp: 63794

Ion Ratio Lower Upper

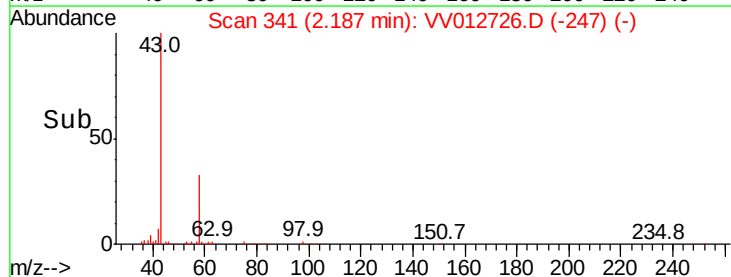
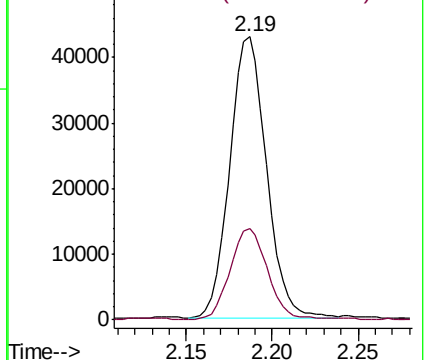
43 100

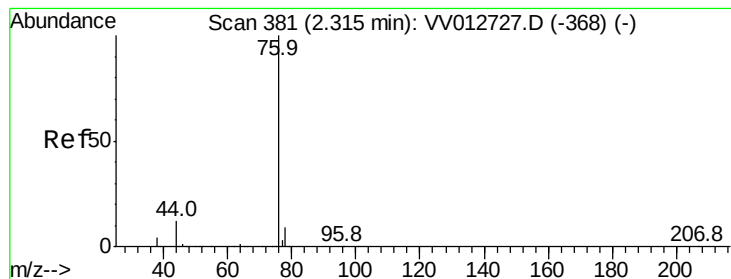
58 32.2 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#14

Carbon disulfide

Concen: 8.347 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

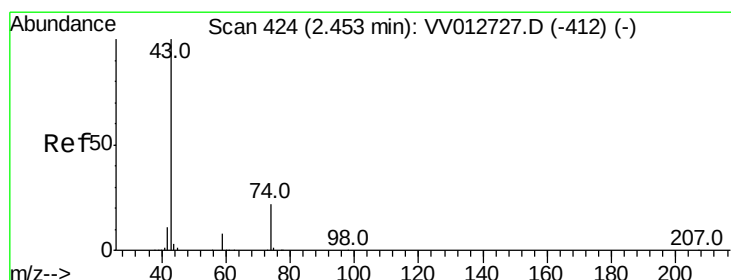
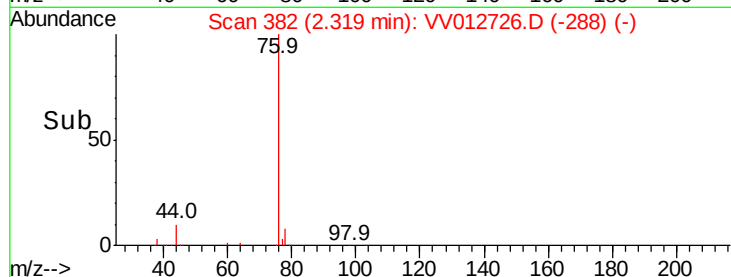
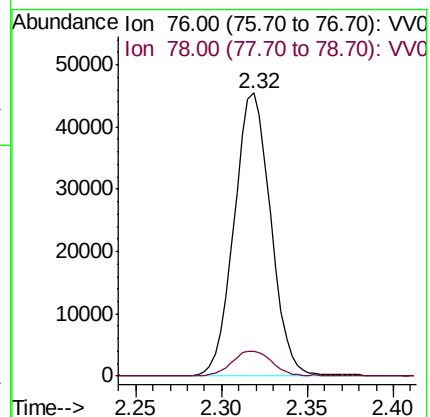
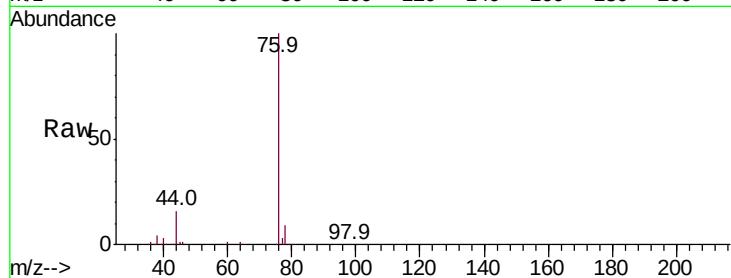
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 76 Resp: 67281

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



#15

Methyl Acetate

Concen: 8.383 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV012726.D

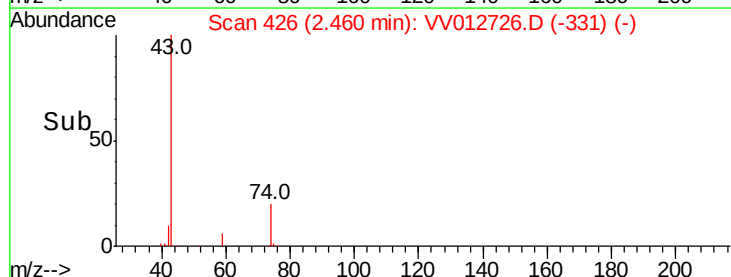
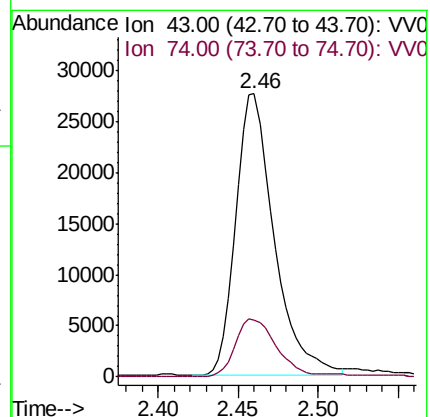
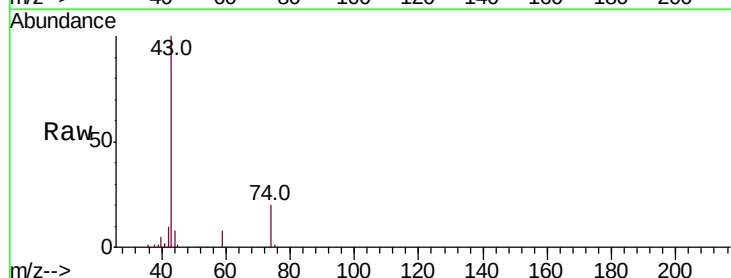
Acq: 13 Sep 2019 09:32

Tgt Ion: 43 Resp: 45240

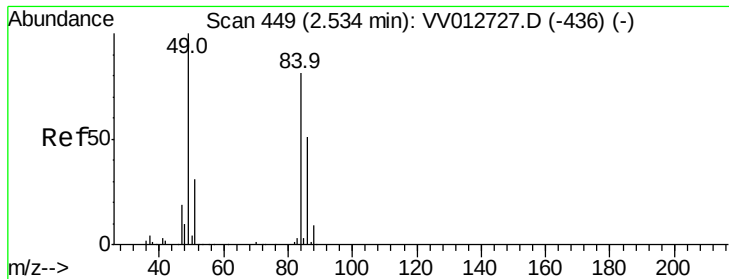
Ion Ratio Lower Upper

43 100

74 22.1 18.6 27.8



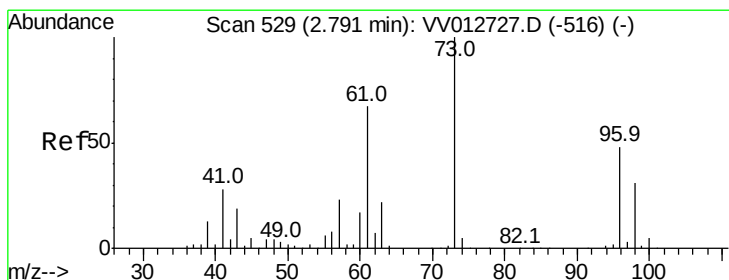
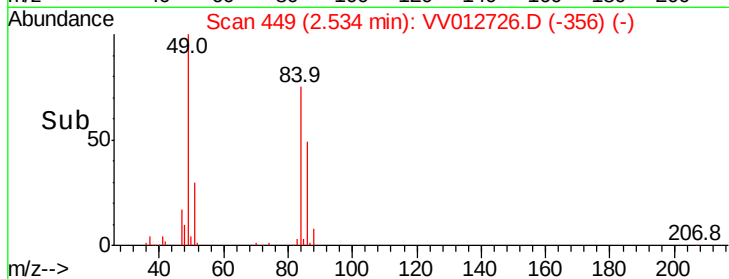
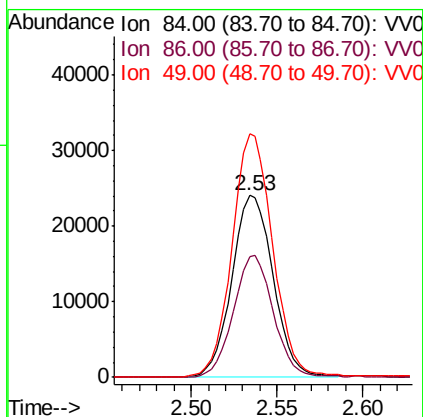
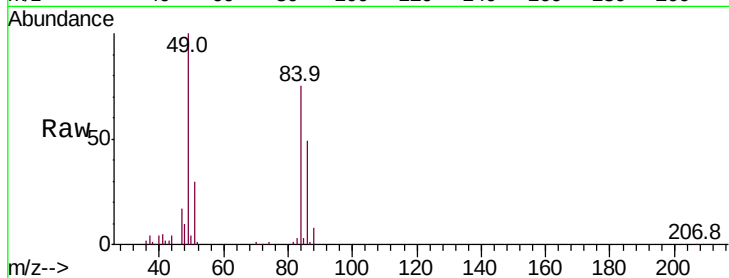




#16  
Methylene chloride  
Concen: 8.334 ug/L  
RT: 2.53 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

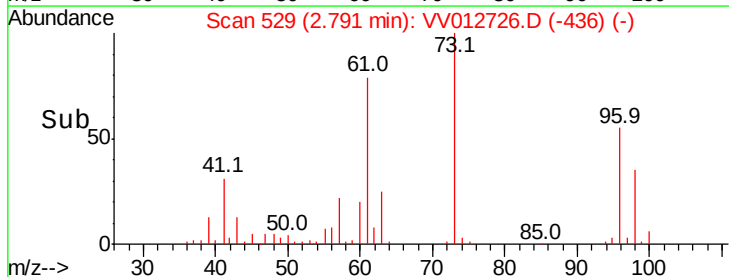
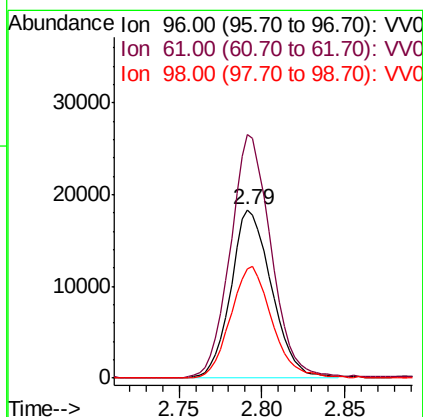
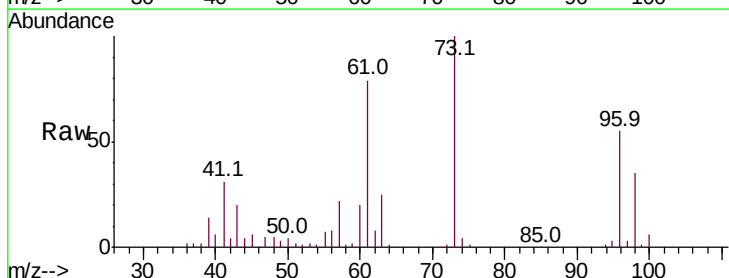
Instrument :  
MSVOA\_V  
ClientSampleId :

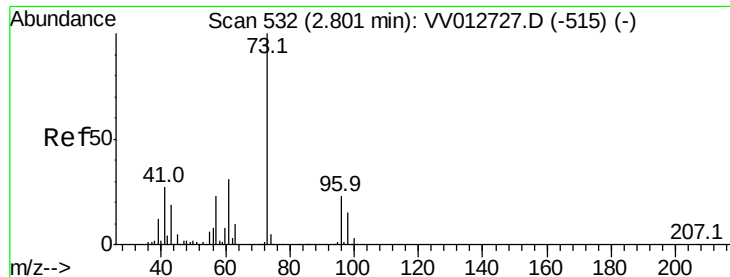
Tot Ion: 84 Resp: 40390  
Ion Ratio Lower Upper  
84 100  
86 66.2 44.0 81.8  
49 133.8 86.2 160.0



#17  
trans-1,2-Dichloroethene  
Concen: 7.801 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

Tgt Ion: 96 Resp: 31499  
Ion Ratio Lower Upper  
96 100  
61 144.4 98.3 182.5  
98 64.8 45.0 83.6

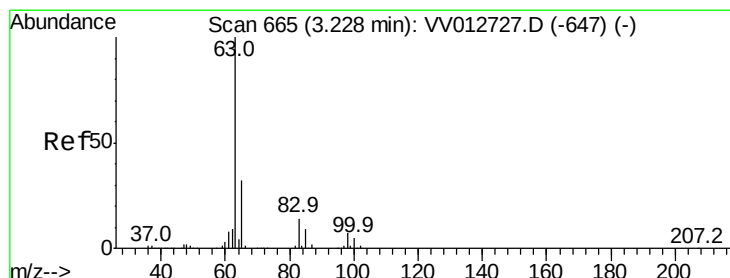
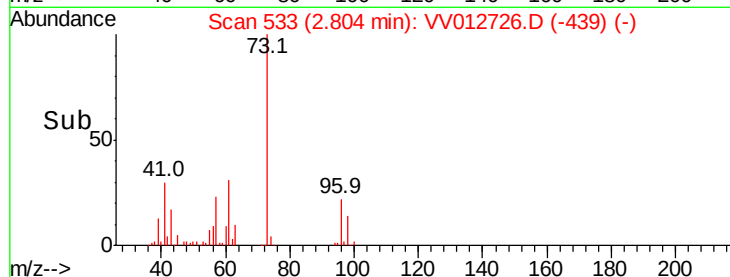
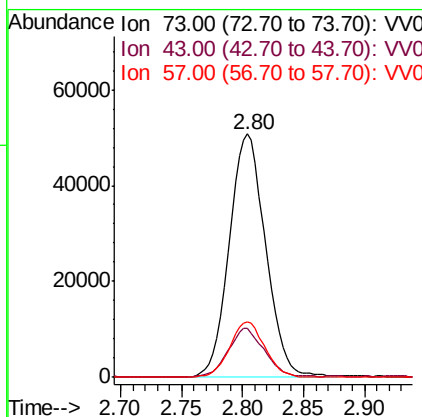
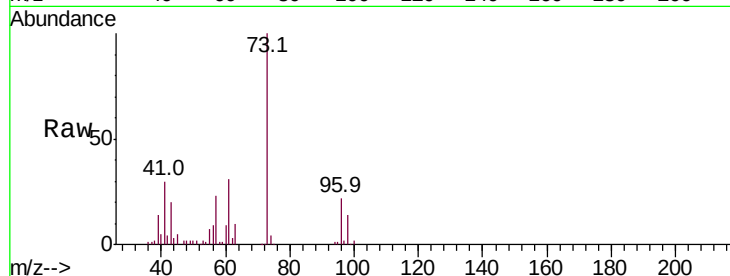




#18  
Methvl tert-butvl Ether  
Concen: 7.560 ug/L  
RT: 2.80 min Scan# 533  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

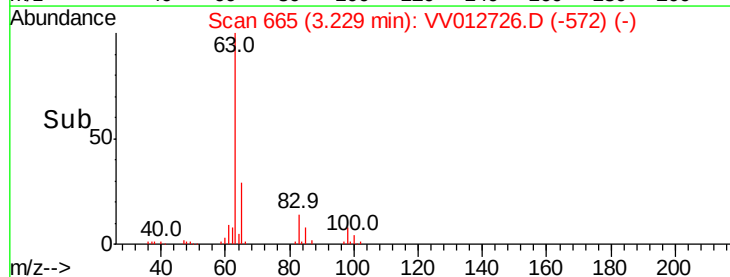
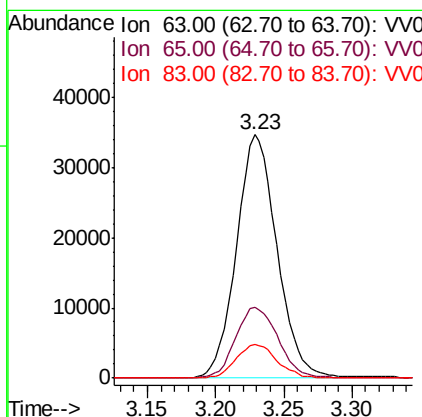
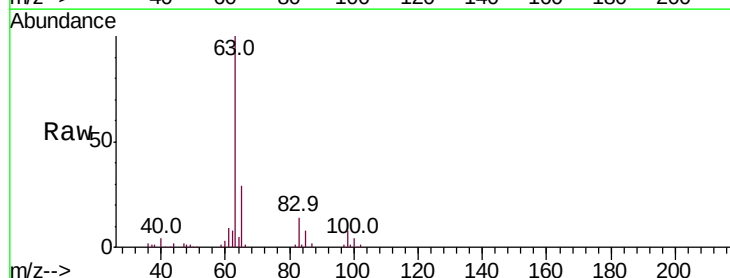
Instrument :  
MSVOA\_V  
ClientSampleId :

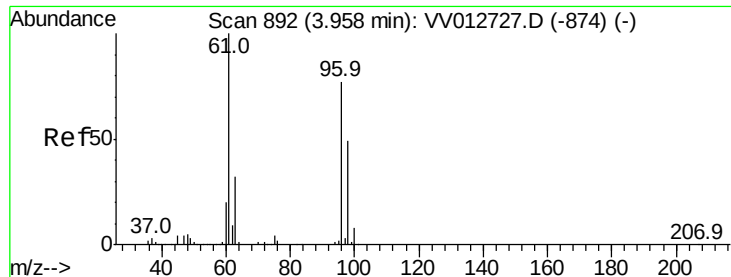
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 19.4  | 15.4  | 23.2  |
| 57      | 21.9  | 18.4  | 27.6  |



#19  
1,1-Dichloroethane  
Concen: 8.225 ug/L  
RT: 3.23 min Scan# 665  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 29.0  | 22.2  | 41.2  |
| 83      | 13.6  | 9.6   | 17.8  |

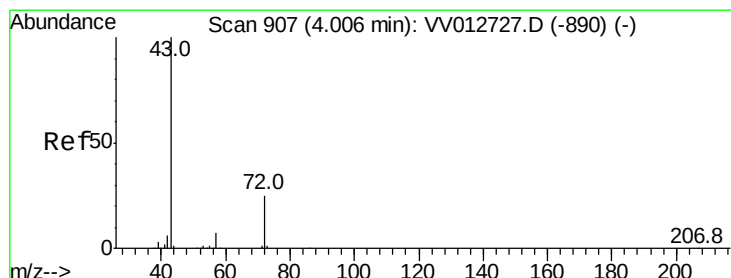
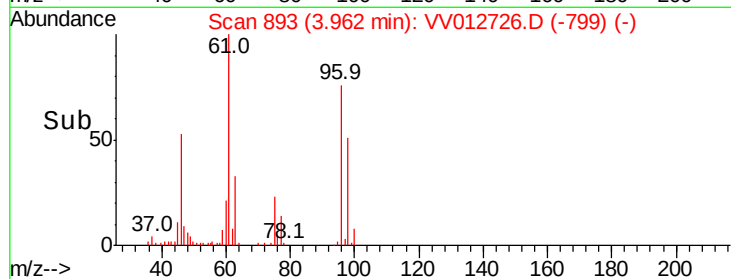
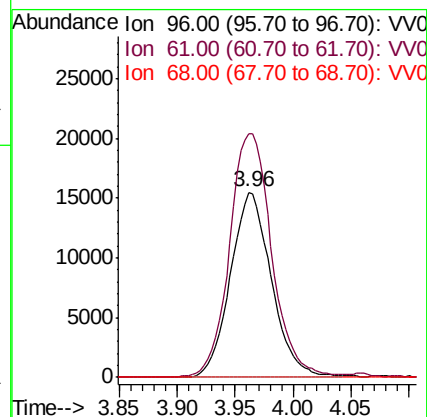
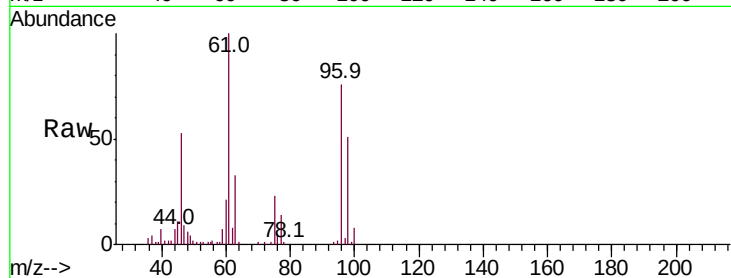




#20  
 cis-1,2-Dichloroethene  
 Concen: 7.617 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

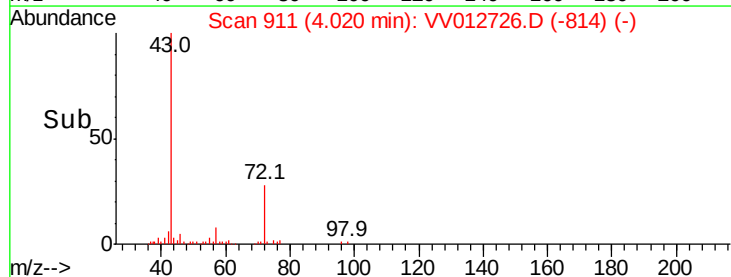
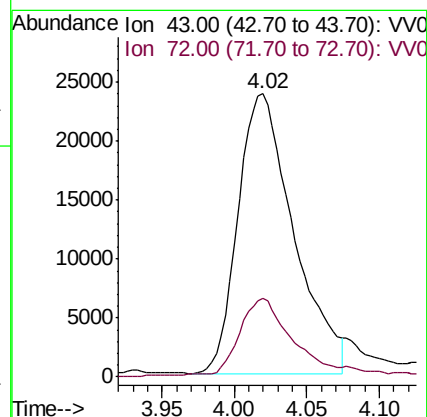
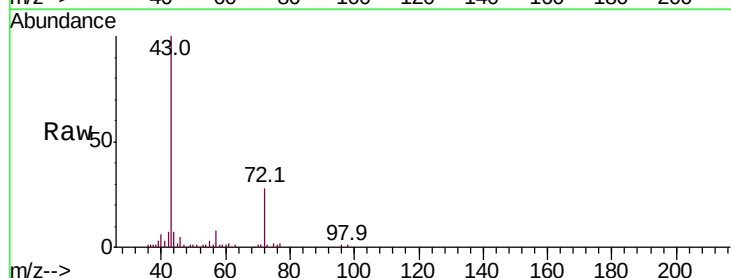
Instrument :  
 MSVOA\_V  
 ClientSampleId :

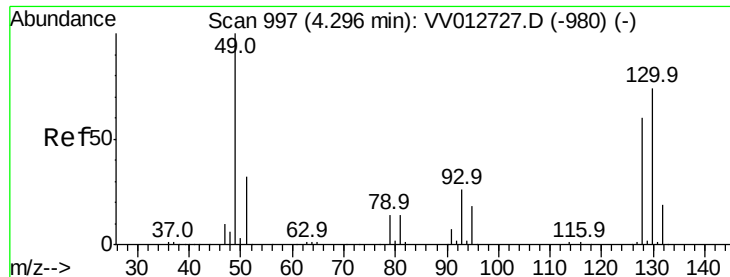
Tot Ion: 96 Resp: 38051  
 Ion Ratio Lower Upper  
 96 100  
 61 131.7 90.6 168.3  
 68 0.0 0.0 0.0



#22  
 2-Butanone  
 Concen: 15.014 ug/L  
 RT: 4.02 min Scan# 911  
 Delta R.T. 0.01 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

Tgt Ion: 43 Resp: 63415  
 Ion Ratio Lower Upper  
 43 100  
 72 24.1 13.2 39.6





#23

Bromochloromethane

Concen: 8.211 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:128 Resp: 20839

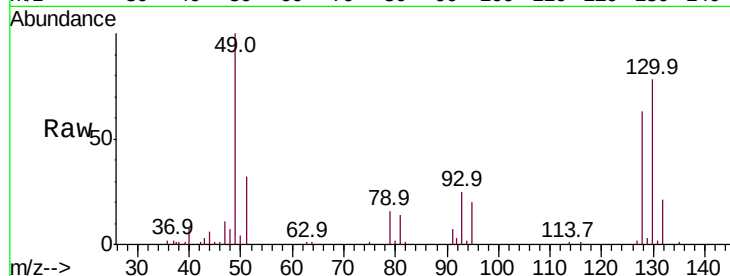
Ion Ratio Lower Upper

128 100

49 158.1 117.2 217.8

130 123.9 86.7 160.9

51 50.2 42.3 63.5

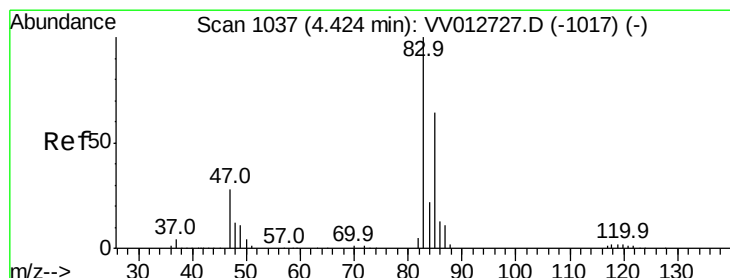
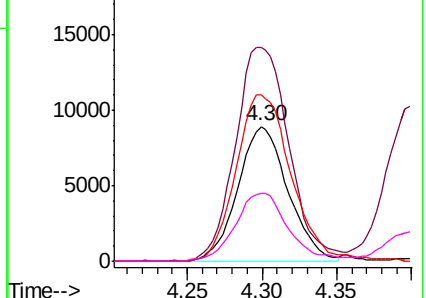
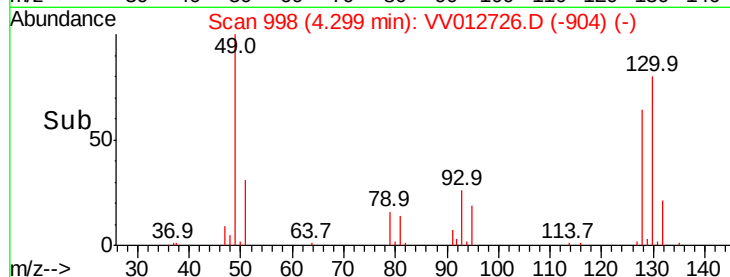


Abundance Ion 128.00 (127.70 to 128.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 8.458 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV012726.D

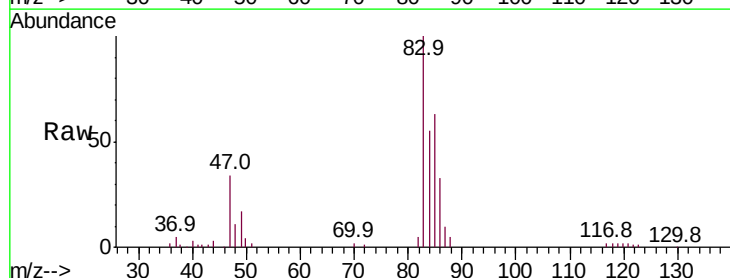
Acq: 13 Sep 2019 09:32

Tgt Ion: 83 Resp: 77546

Ion Ratio Lower Upper

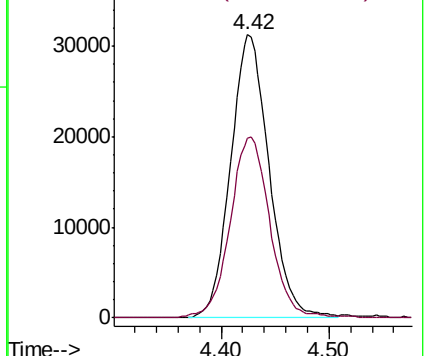
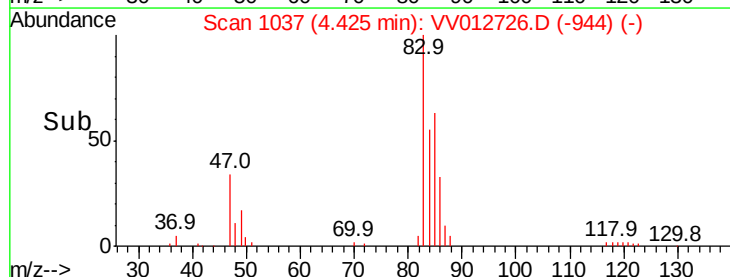
83 100

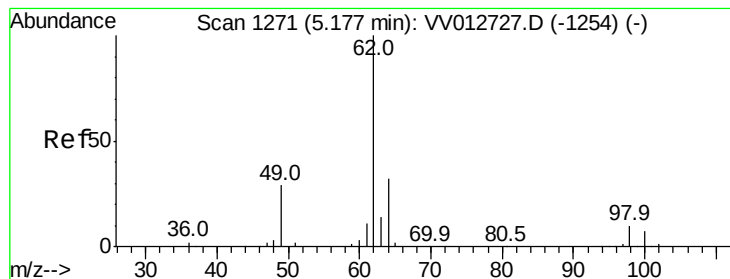
85 63.3 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 8.059 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

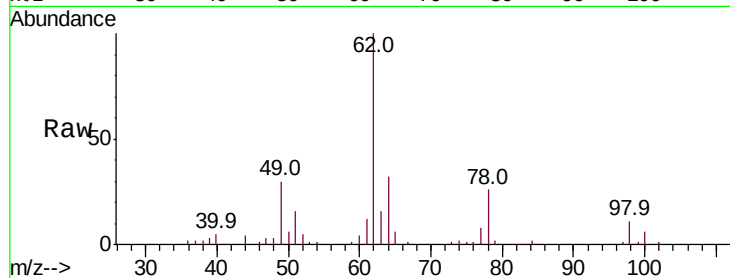
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 55301

Ion Ratio Lower Upper

62 100

98 10.7 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VV012727.D (-1254) (-)

Ion 98.00 (97.70 to 98.70): VV012727.D (-1254) (-)

5.18

25000

20000

15000

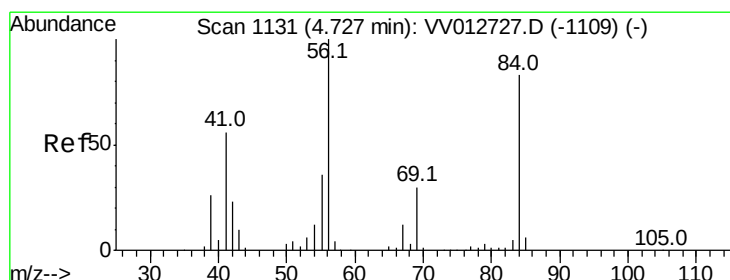
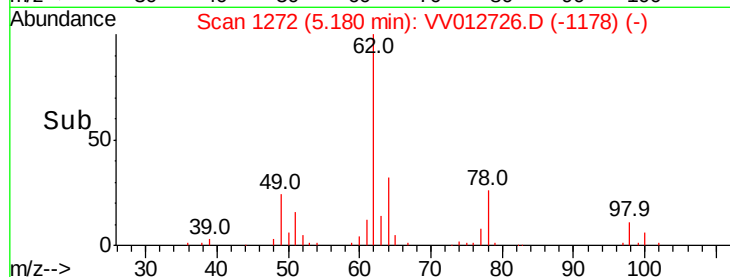
10000

5000

0

Time-->

5.10 5.15 5.20 5.25



#29

Cyclohexane

Concen: 6.780 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

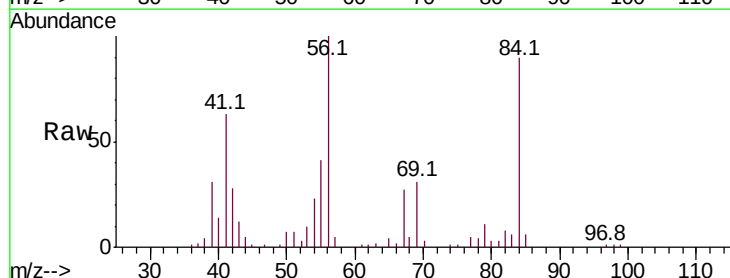
Tgt Ion: 56 Resp: 43892

Ion Ratio Lower Upper

56 100

69 29.7 24.2 36.2

84 83.3 69.8 104.6



Abundance Ion 56.00 (55.70 to 56.70): VV012727.D (-1109) (-)

Ion 69.00 (68.70 to 69.70): VV012727.D (-1109) (-)

Ion 84.00 (83.70 to 84.70): VV012727.D (-1109) (-)

4.73

20000

15000

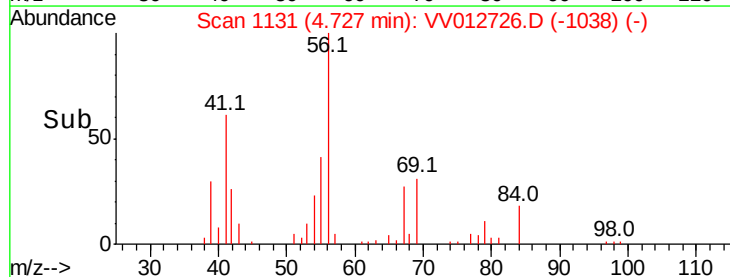
10000

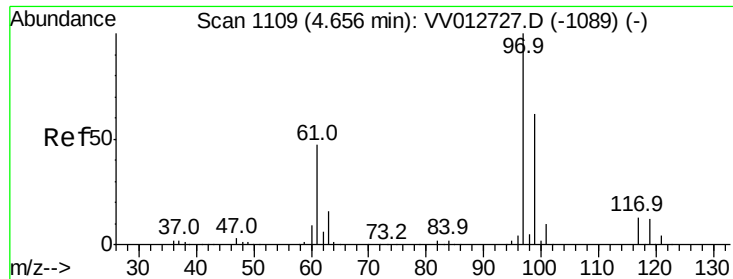
5000

0

Time-->

4.65 4.70 4.75 4.80

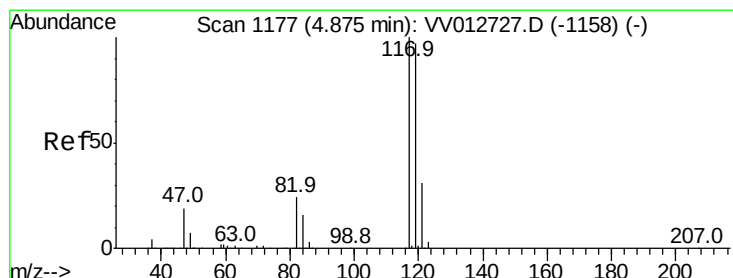
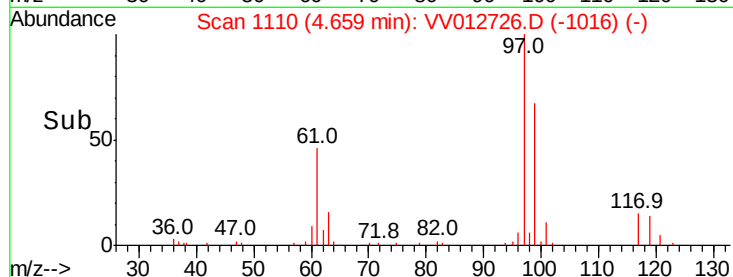
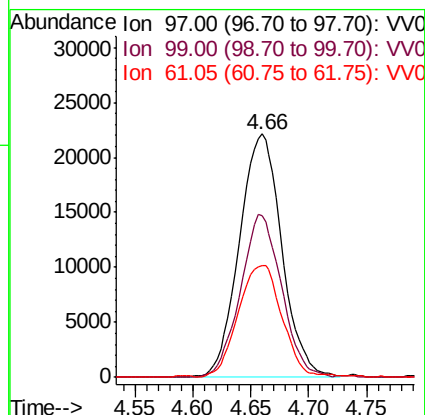
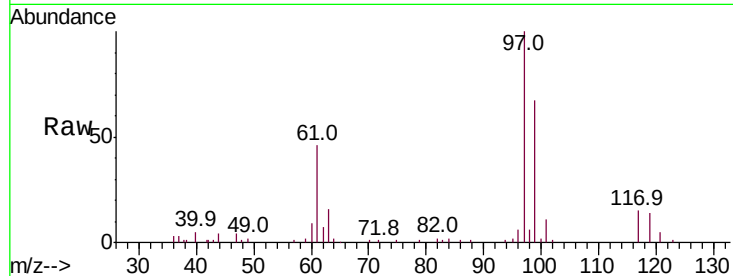




#30  
 1,1,1-Trichloroethane  
 Concen: 7.909 ug/L  
 RT: 4.66 min Scan# 1110  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

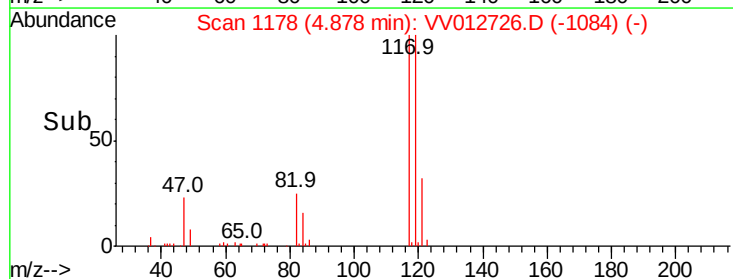
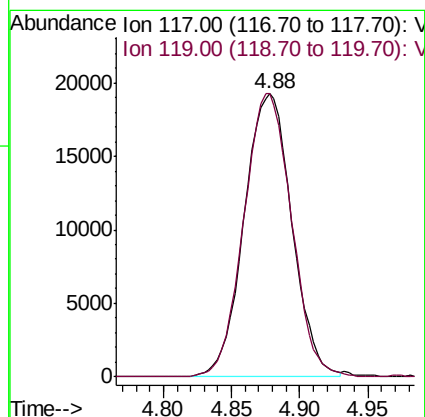
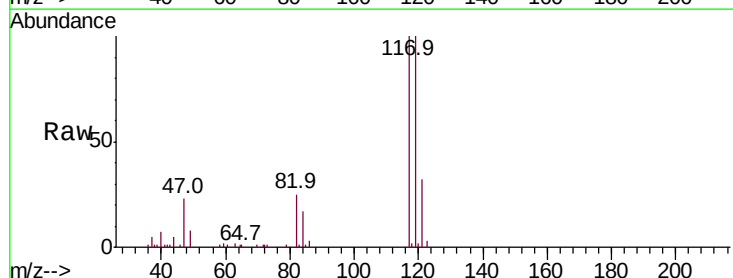
Instrument :  
 MSVOA\_V  
 ClientSampleId :

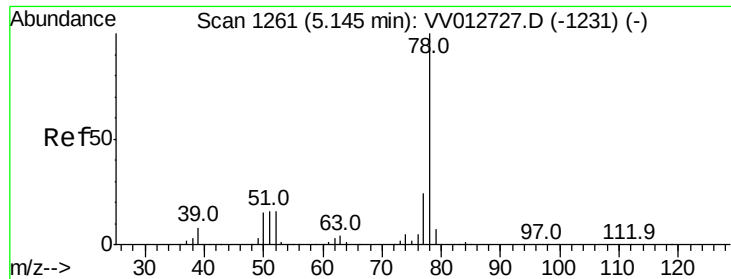
Tot Ion: 97 Resp: 56395  
 Ion Ratio Lower Upper  
 97 100  
 99 64.6 50.6 75.8  
 61 47.0 37.8 56.8



#31  
 Carbon tetrachloride  
 Concen: 7.612 ug/L  
 RT: 4.88 min Scan# 1178  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

Tgt Ion: 117 Resp: 46733  
 Ion Ratio Lower Upper  
 117 100  
 119 99.8 77.1 115.7

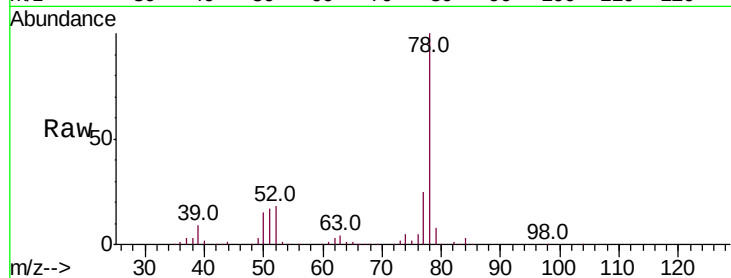




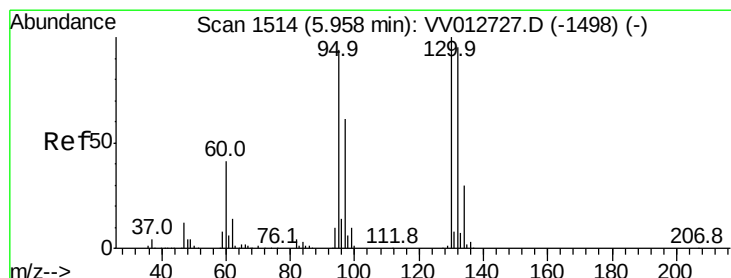
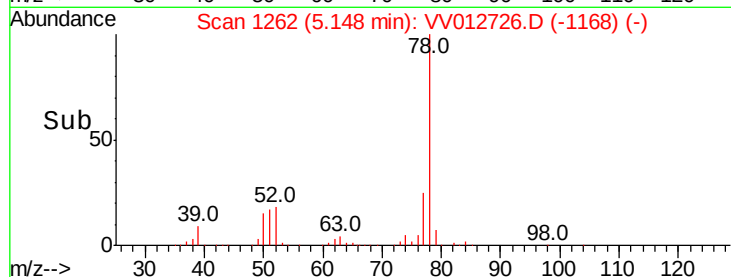
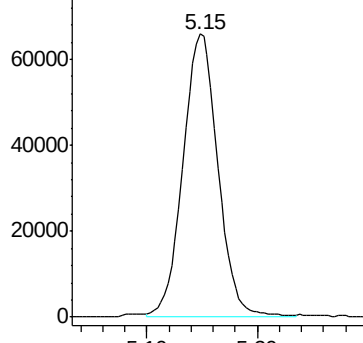
#33  
Benzene  
Concen: 7.779 ug/L  
RT: 5.15 min Scan# 1262  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion: 78 Resp: 144293



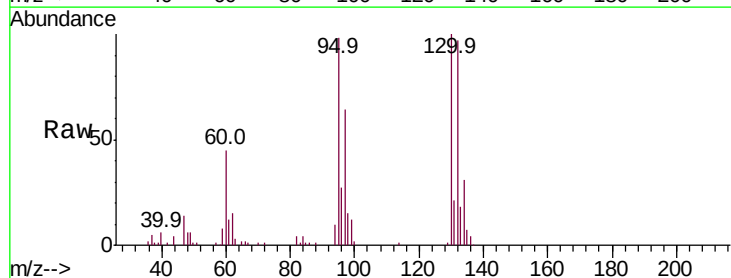
Abundance Ion 78.00 (77.70 to 78.70): VV0



#34  
Trichloroethene  
Concen: 8.548 ug/L  
RT: 5.96 min Scan# 1514  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

Tgt Ion: 95 Resp: 46087

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.6  | 45.1  | 83.9  |
| 132 | 99.1  | 70.6  | 131.0 |
| 130 | 101.8 | 74.6  | 138.6 |

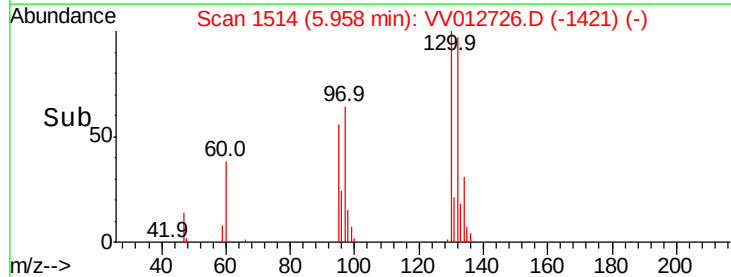
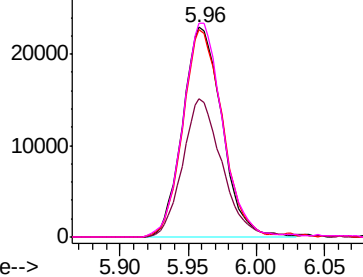


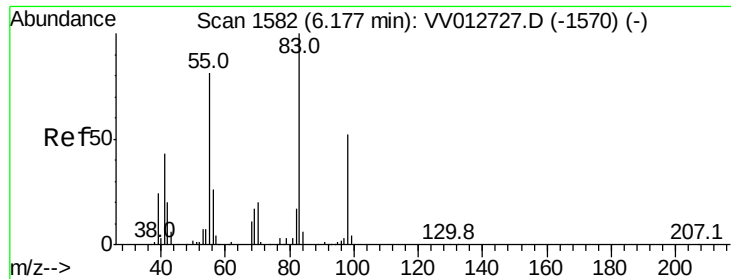
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

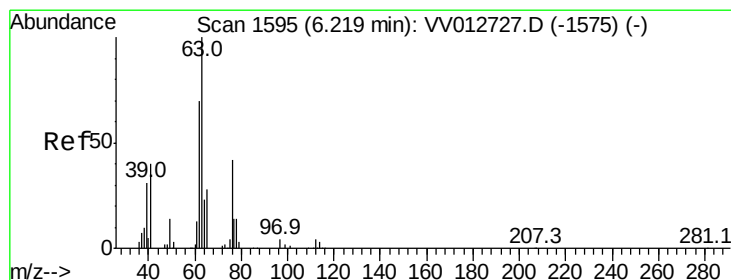
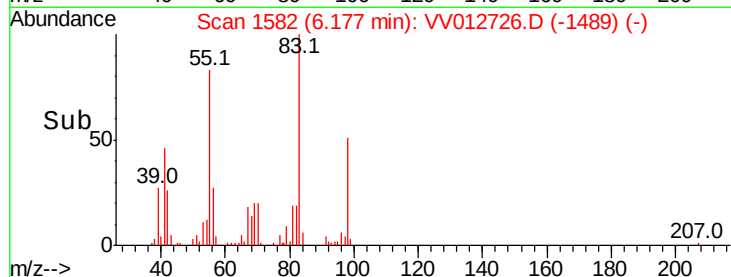
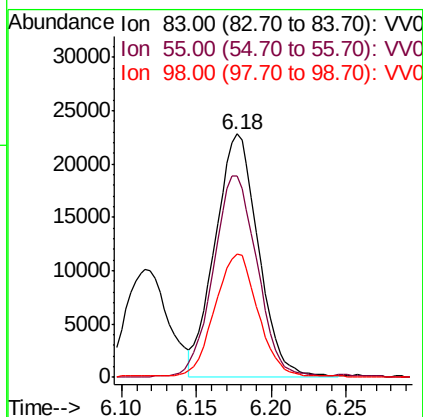
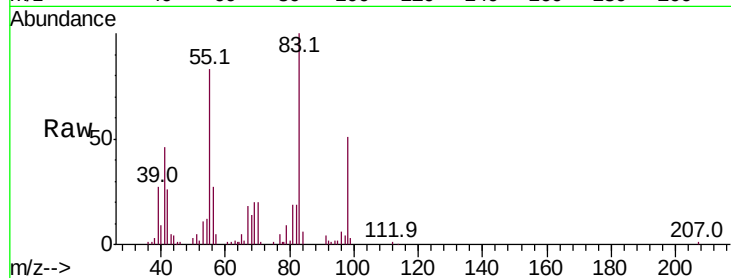




#35  
Methylvlcyclohexane  
Concen: 6.764 ug/L  
RT: 6.18 min Scan# 1582  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

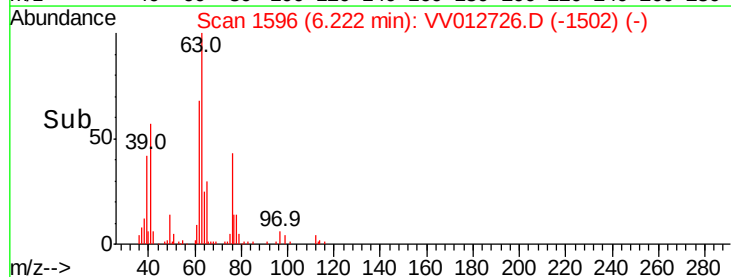
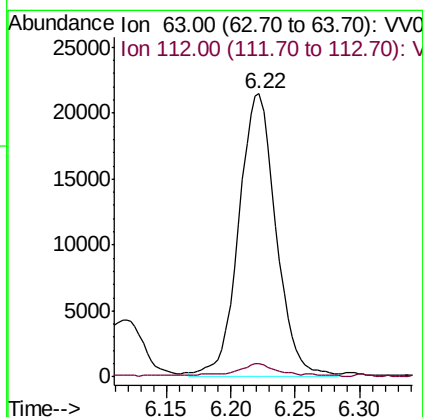
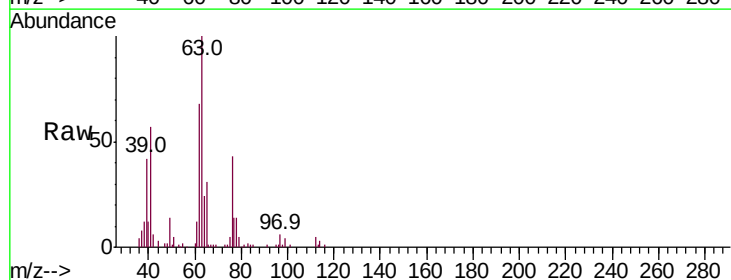
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 83 Resp: 46008  
Ion Ratio Lower Upper  
83 100  
55 84.1 62.2 93.2  
98 50.9 39.4 59.0

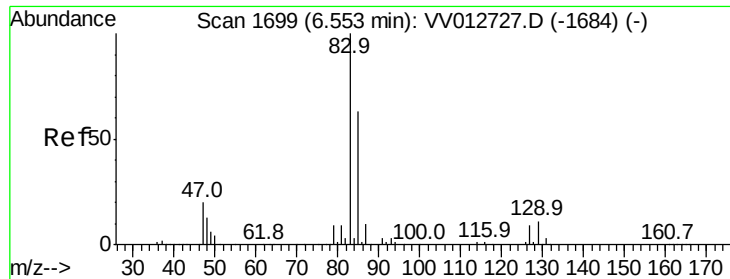


#37  
1,2-Dichloropropane  
Concen: 8.145 ug/L  
RT: 6.22 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VV012726.D  
Acq: 13 Sep 2019 09:32

Tgt Ion: 63 Resp: 43447  
Ion Ratio Lower Upper  
63 100  
112 3.3 3.5 5.3#







#38

Bromodichloromethane

Concen: 7.726 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

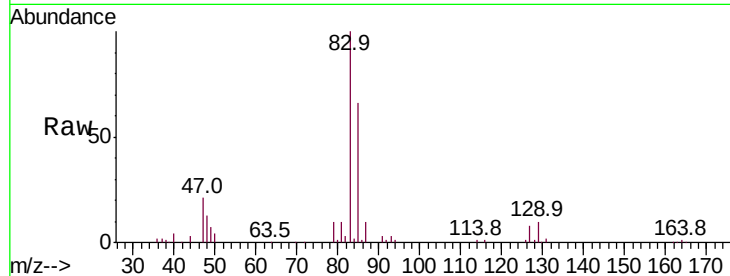
Tot Ion: 83 Resp: 53050

Ion Ratio Lower Upper

83 100

85 65.6 44.4 82.5

127 8.1 7.0 10.4



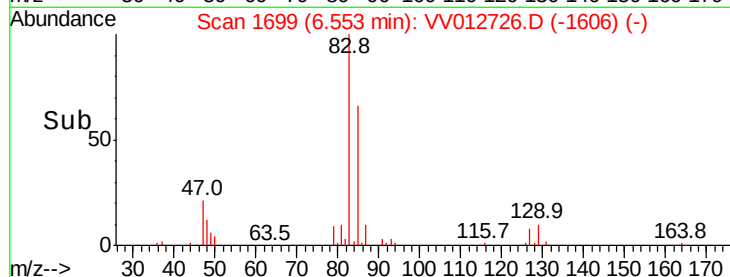
Abundance Ion 83.00 (82.70 to 83.70): VV012727.D (-1684) (-)

Ion 85.00 (84.70 to 85.70): VV012726.D (-1606) (-)

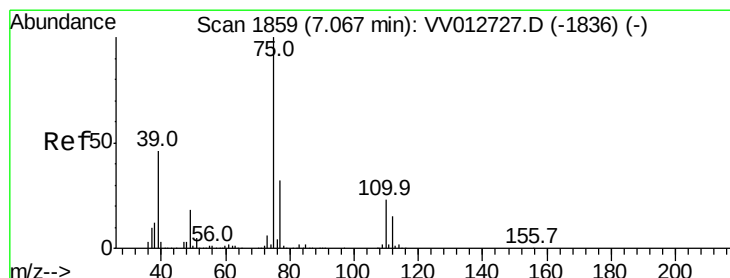
Ion 127.00 (126.70 to 127.70): VV012726.D (-1606) (-)

6.55

Time-->



Time-->



#39

cis-1,3-Dichloropropene

Concen: 6.620 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV012726.D

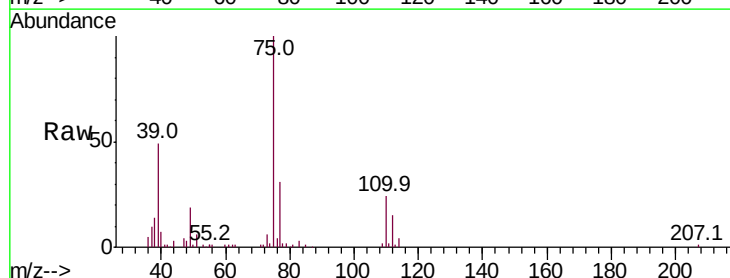
Acq: 13 Sep 2019 09:32

Tgt Ion: 75 Resp: 49436

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1

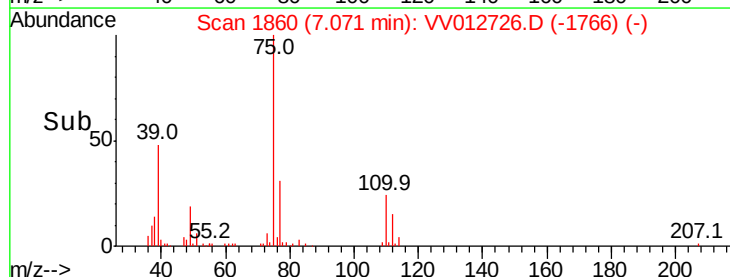


Abundance Ion 75.00 (74.70 to 75.70): VV012727.D (-1836) (-)

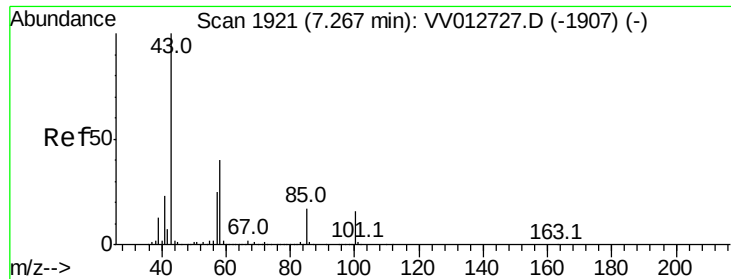
Ion 77.00 (76.70 to 77.70): VV012726.D (-1766) (-)

7.07

Time-->



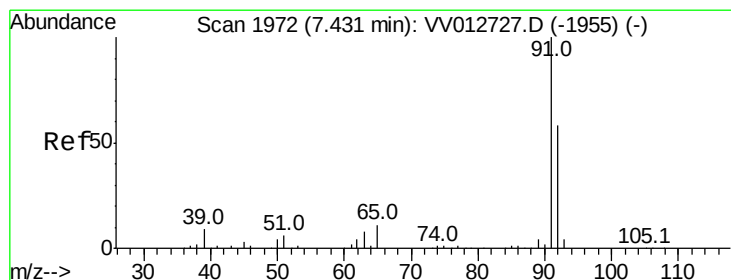
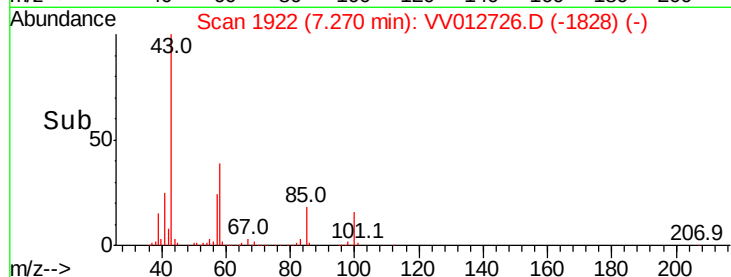
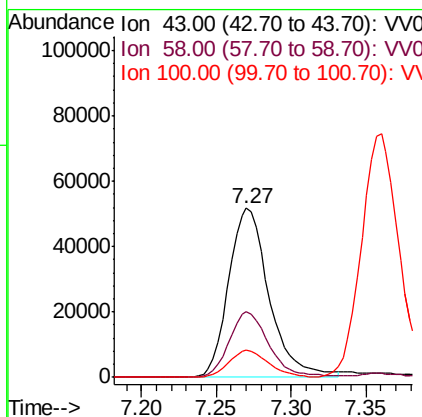
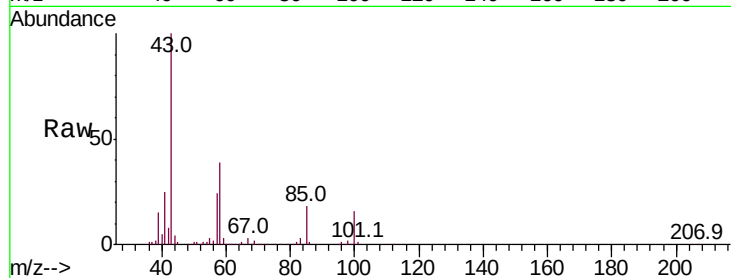
Time-->



#40  
 4-Methyl-2-pentanone  
 Concen: 13.128 ug/L  
 RT: 7.27 min Scan# 1922  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

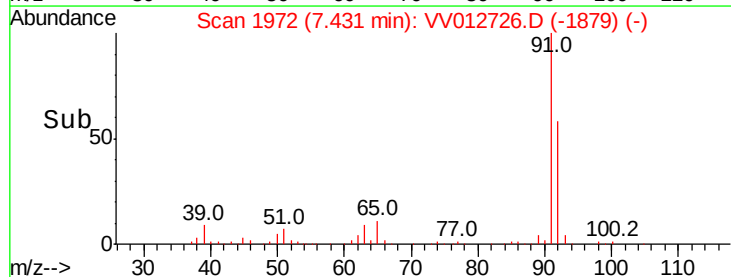
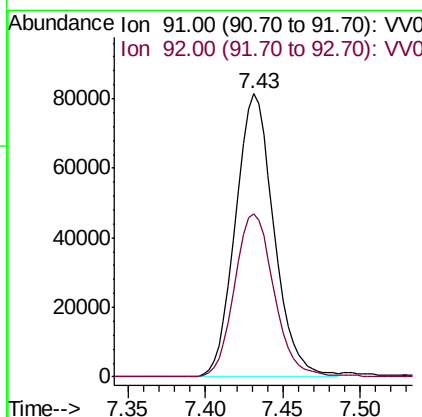
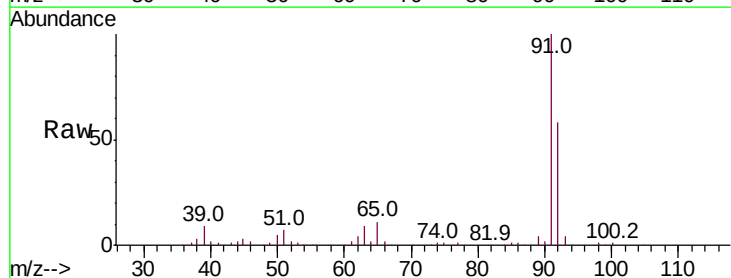
Instrument :  
 MSVOA\_V  
 ClientSampleId :

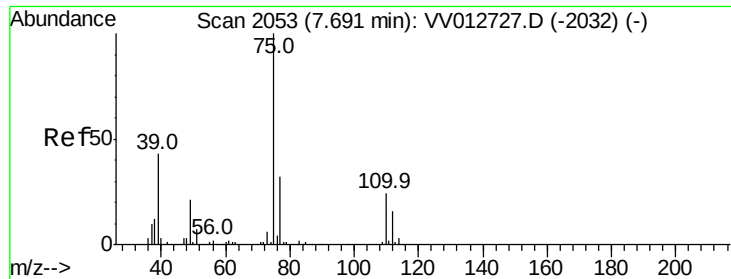
Tot Ion: 43 Resp: 96913  
 Ion Ratio Lower Upper  
 43 100  
 58 37.0 31.3 46.9  
 100 15.6 12.4 18.6



#42  
 Toluene  
 Concen: 7.318 ug/L  
 RT: 7.43 min Scan# 1972  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

Tgt Ion: 91 Resp: 140954  
 Ion Ratio Lower Upper  
 91 100  
 92 57.7 40.9 76.0





#44

trans-1,3-Dichloropropene

Concen: 7.020 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

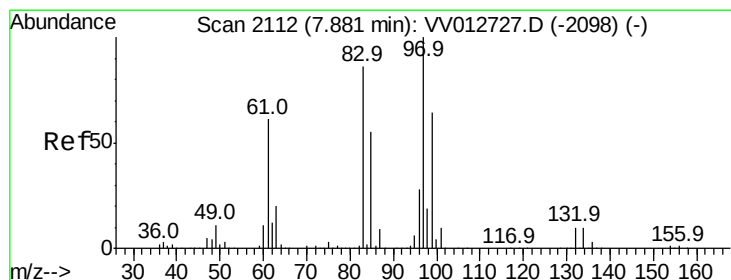
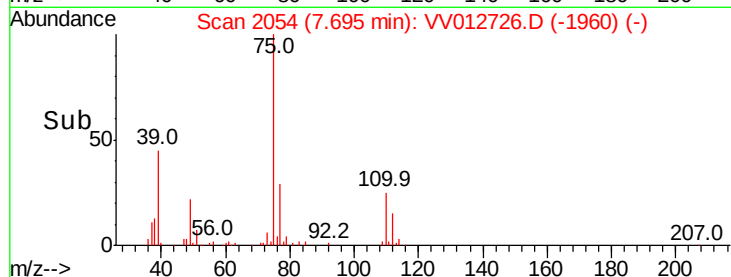
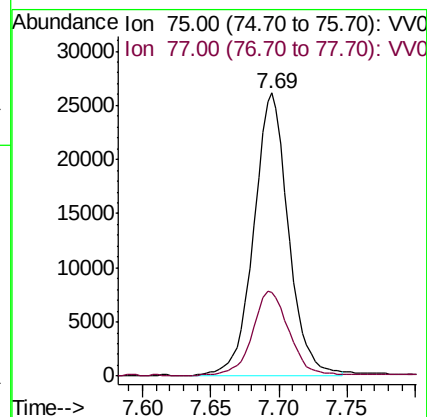
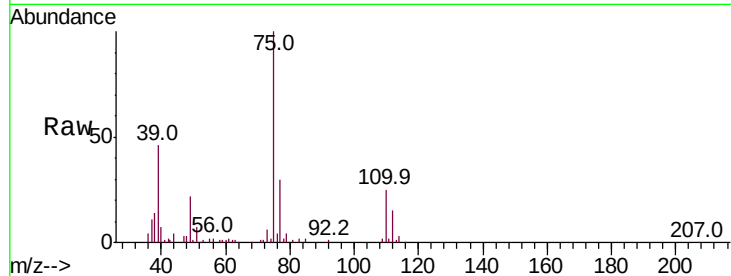
ClientSampled :

Tot Ion: 75 Resp: 46223

Ion Ratio Lower Upper

75 100

77 29.5 22.1 41.1



#45

1,1,2-Trichloroethane

Concen: 8.109 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Tgt Ion: 97 Resp: 42201

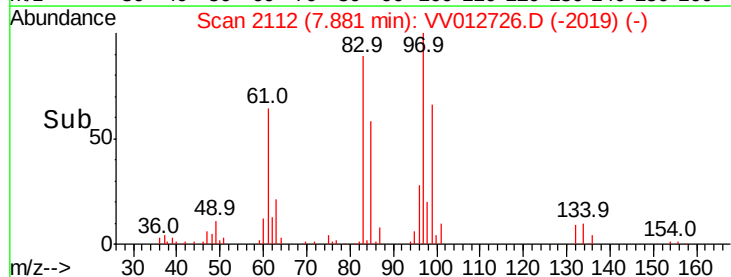
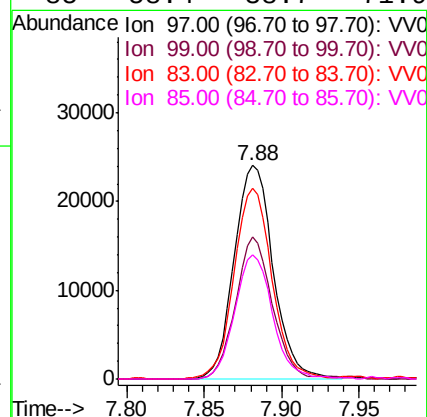
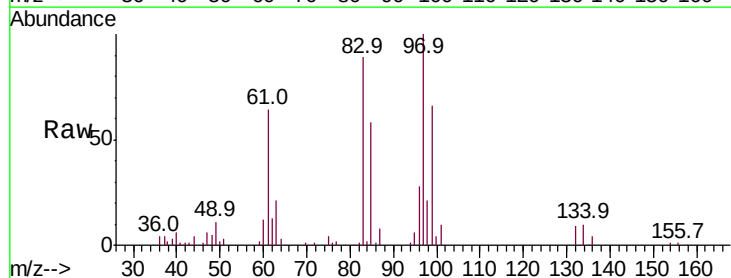
Ion Ratio Lower Upper

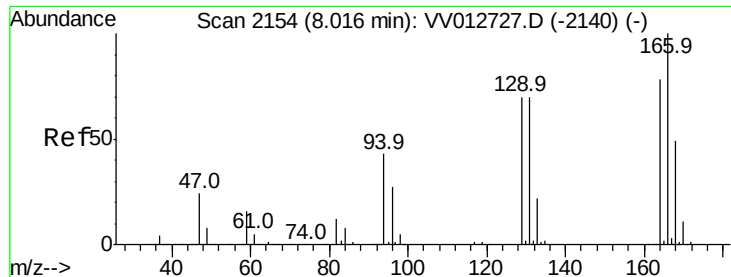
97 100

99 66.5 44.6 82.8

83 89.4 59.9 111.3

85 58.4 38.7 71.9





#46

Tetrachloroethene

Concen: 7.703 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 28808

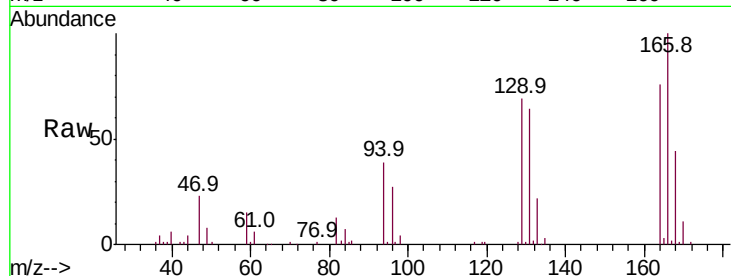
Ion Ratio Lower Upper

164 100

129 90.9 62.7 116.5

131 84.3 62.7 116.5

166 132.3 89.9 167.0

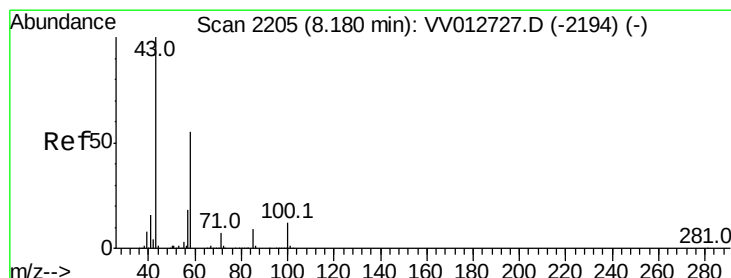
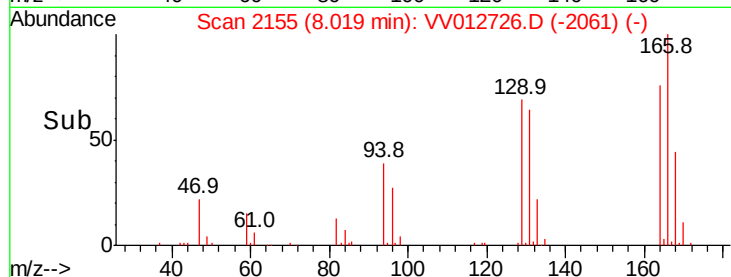
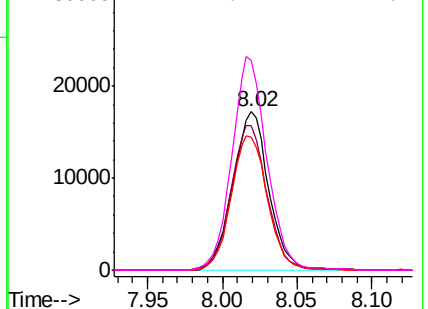


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 14.974 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Tgt Ion: 43 Resp: 90885

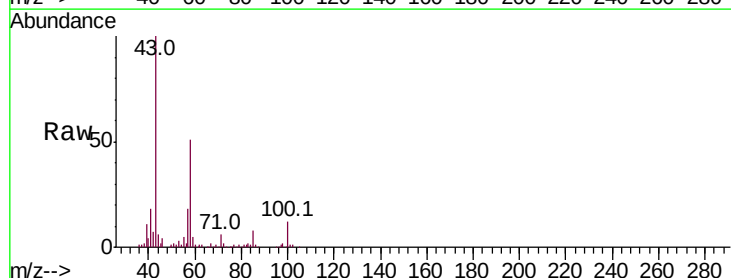
Ion Ratio Lower Upper

43 100

58 54.0 43.8 65.8

57 18.9 14.3 21.5

100 11.5 9.8 14.8

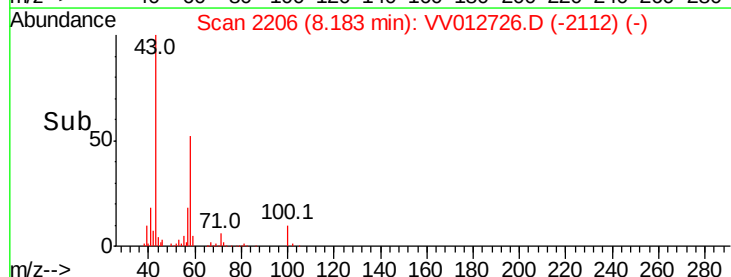
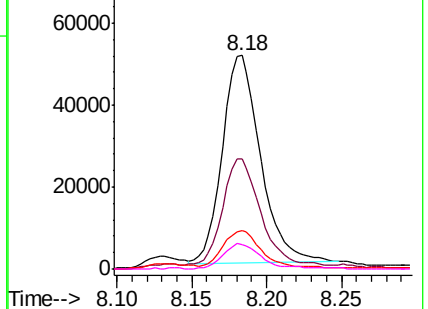


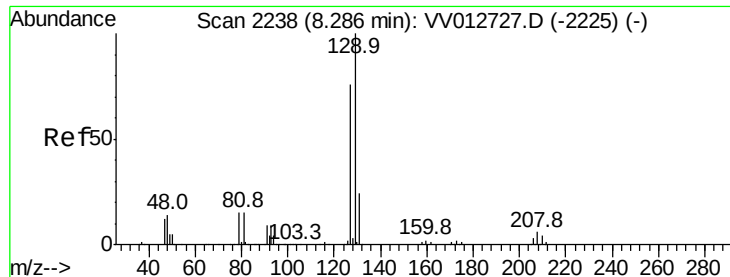
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 7.482 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

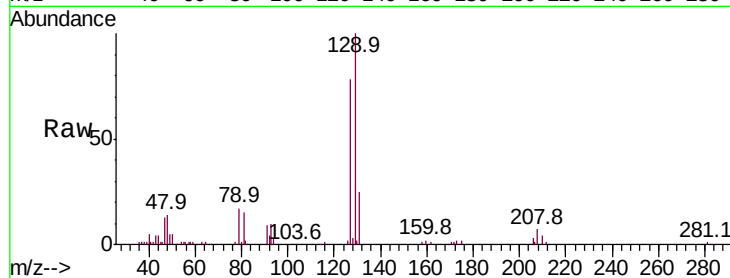
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:129 Resp: 40798

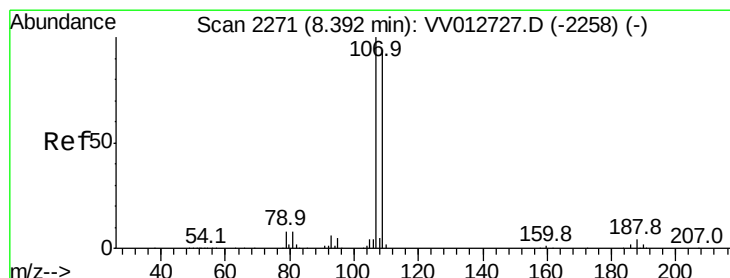
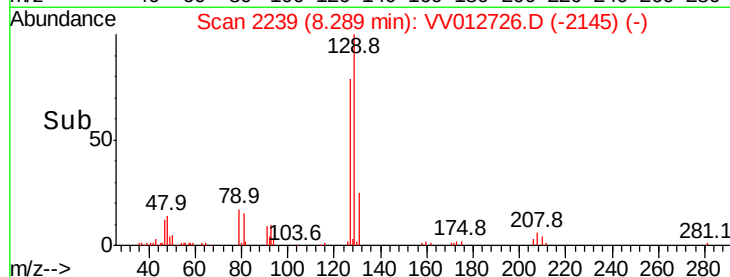
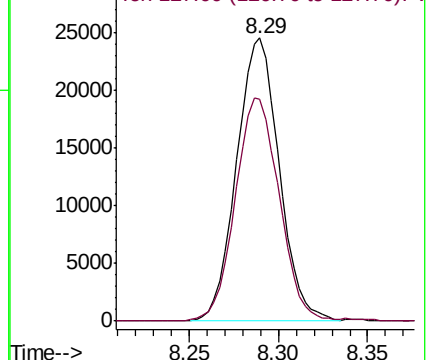
Ion Ratio Lower Upper

129 100

127 78.5 53.0 98.4



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 7.660 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

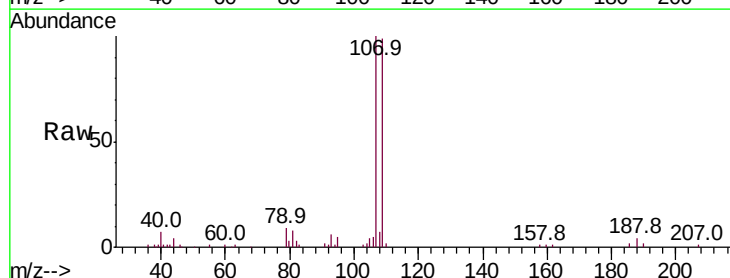
Tgt Ion:107 Resp: 38402

Ion Ratio Lower Upper

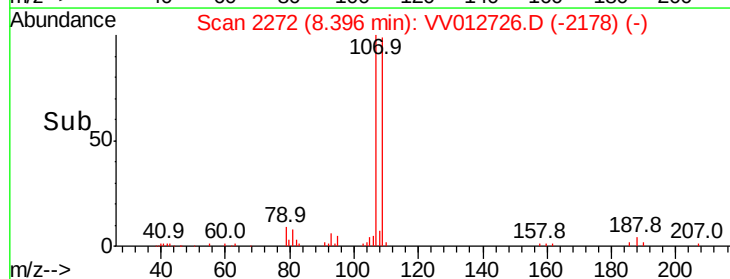
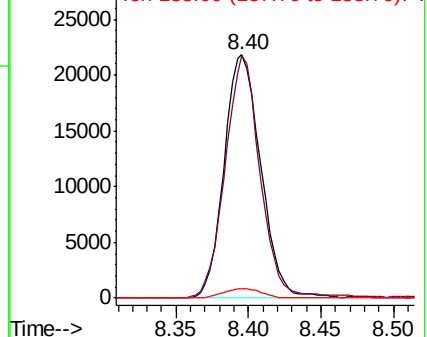
107 100

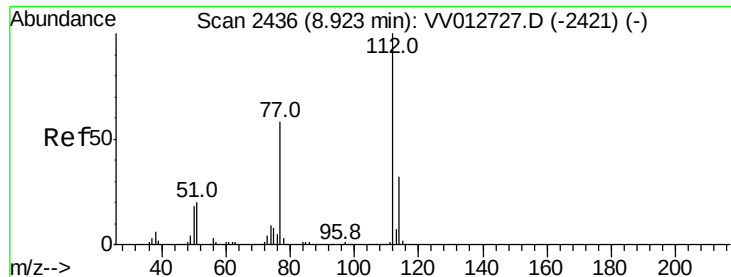
109 99.5 65.7 121.9

188 3.9 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 7.892 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

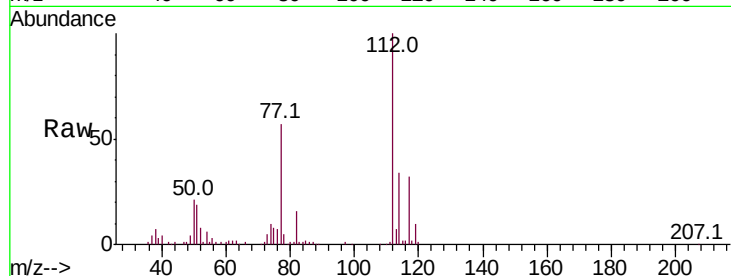
Tot Ion:112 Resp: 104154

Ion Ratio Lower Upper

112 100

114 33.8 22.4 41.6

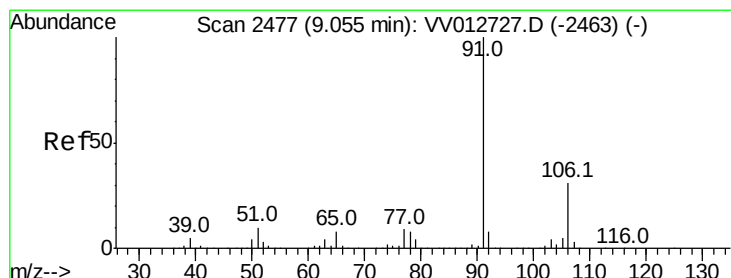
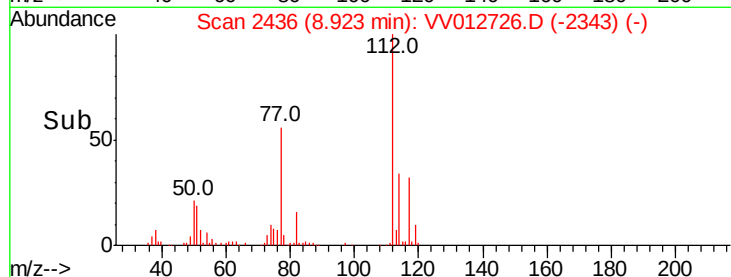
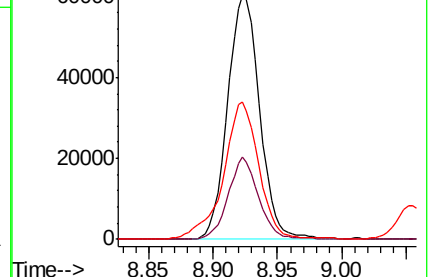
77 56.7 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 6.948 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012726.D

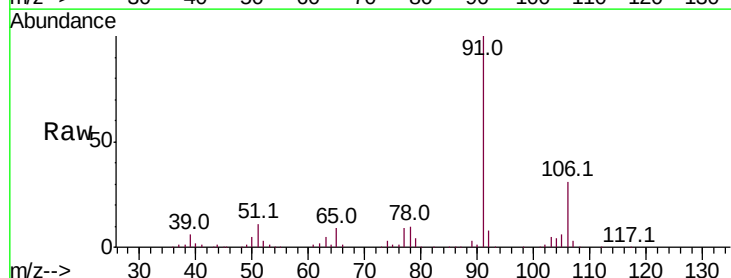
Acq: 13 Sep 2019 09:32

Tgt Ion: 91 Resp: 147117

Ion Ratio Lower Upper

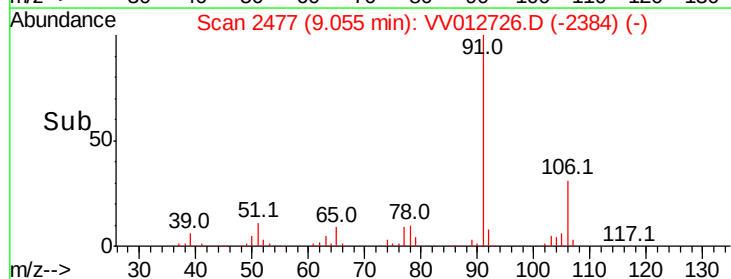
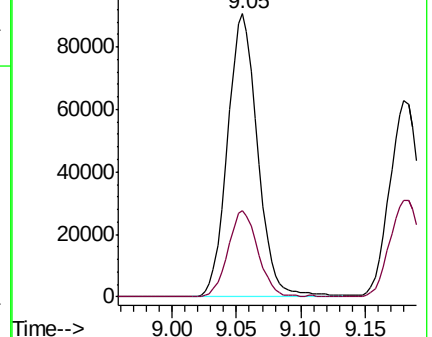
91 100

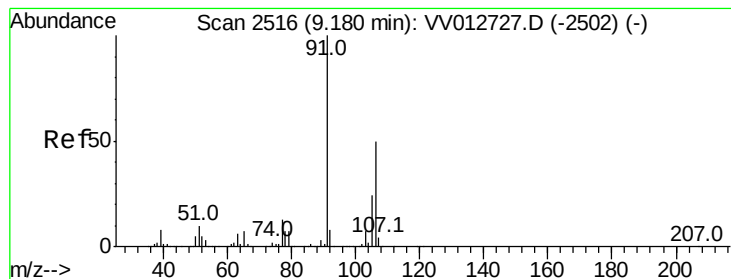
106 30.7 21.4 39.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 6.636 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

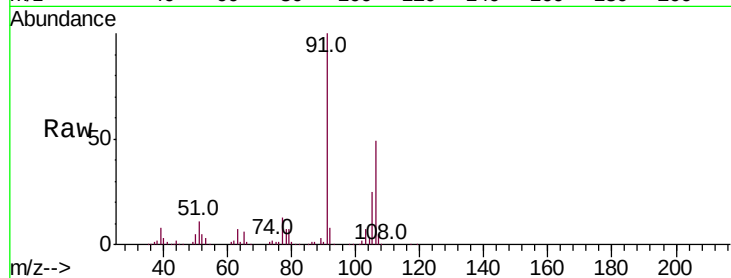
ClientSampleId :

Tot Ion:106 Resp: 51749

Ion Ratio Lower Upper

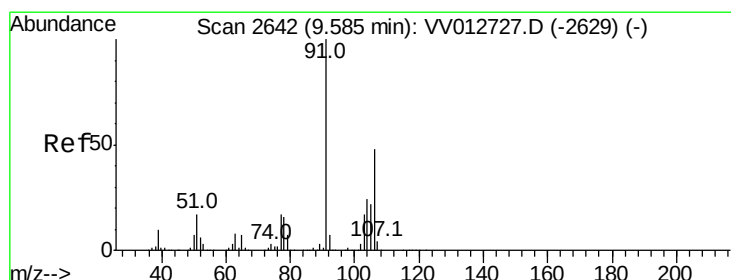
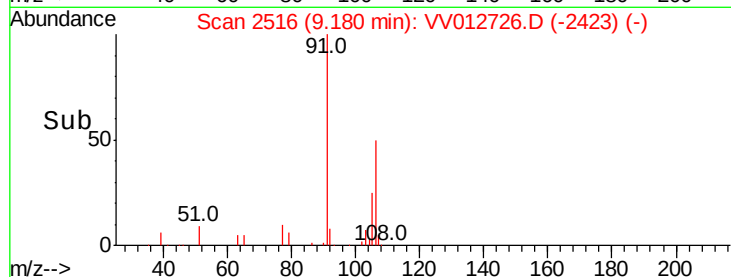
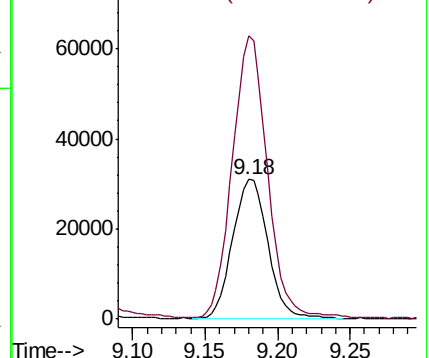
106 100

91 202.2 139.9 259.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 6.484 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012726.D

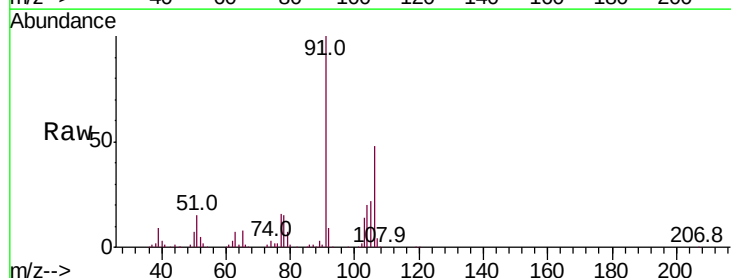
Acq: 13 Sep 2019 09:32

Tgt Ion:106 Resp: 51331

Ion Ratio Lower Upper

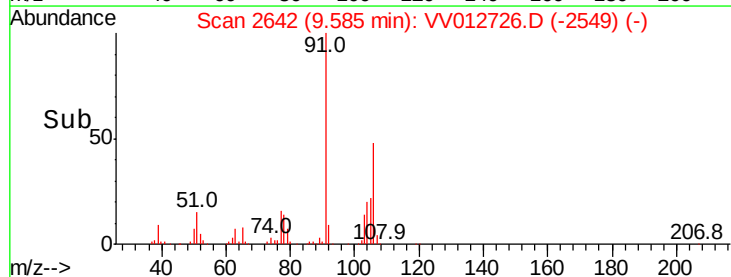
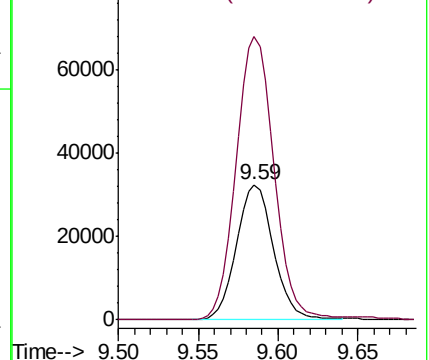
106 100

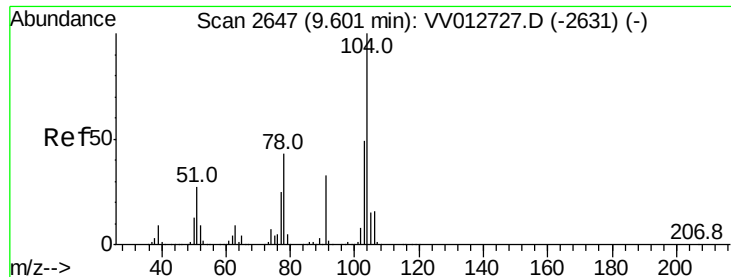
91 209.3 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 6.389 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

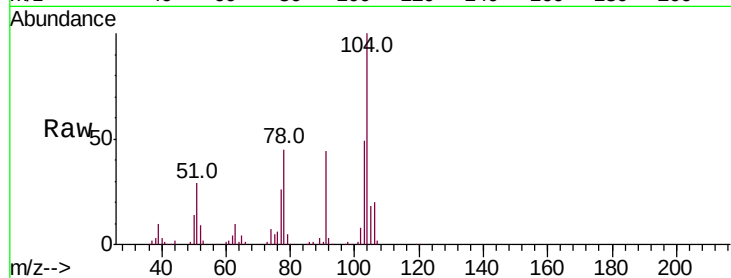
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:104 Resp: 85789

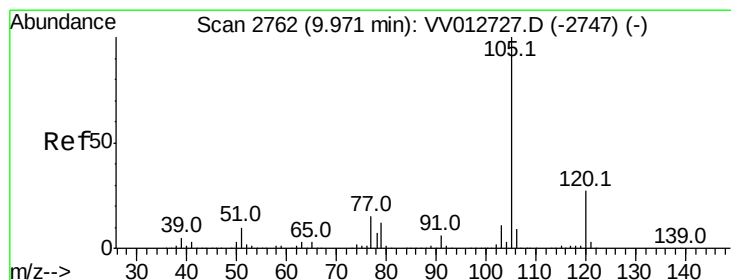
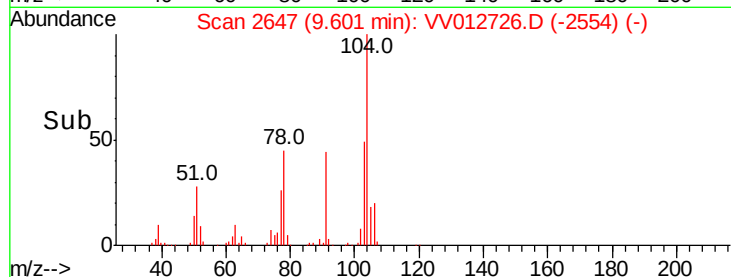
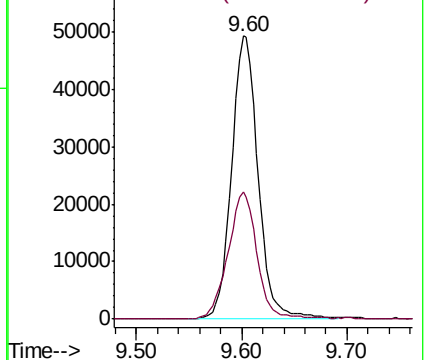
Ion Ratio Lower Upper

104 100

78 45.1 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 6.355 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

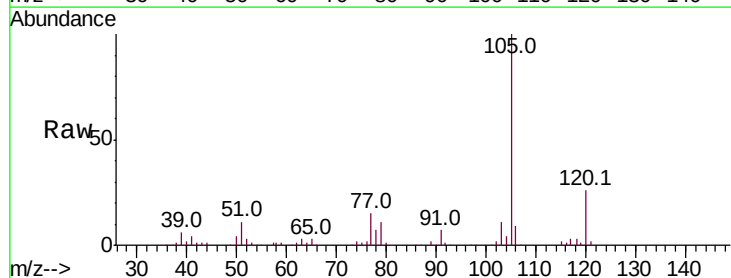
Tgt Ion:105 Resp: 132194

Ion Ratio Lower Upper

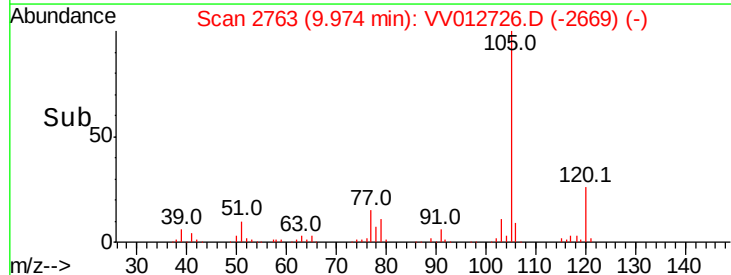
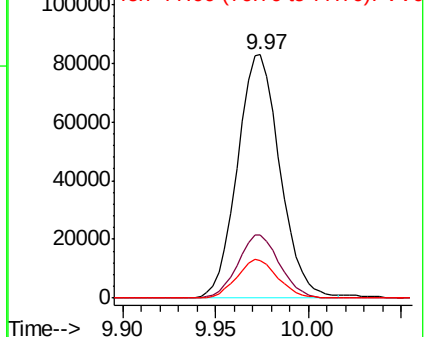
105 100

120 25.6 21.4 32.2

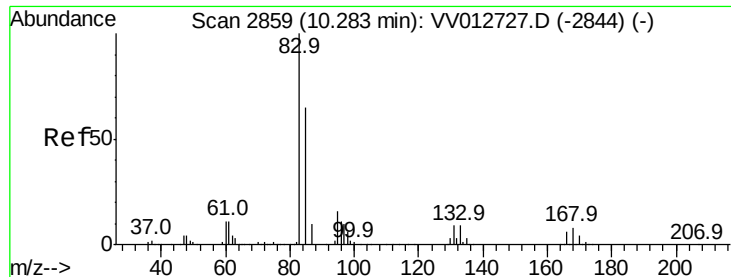
77 15.2 12.4 18.6



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): VV0







#58

1,1,2,2-Tetrachloroethane

Concen: 7.021 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampled :

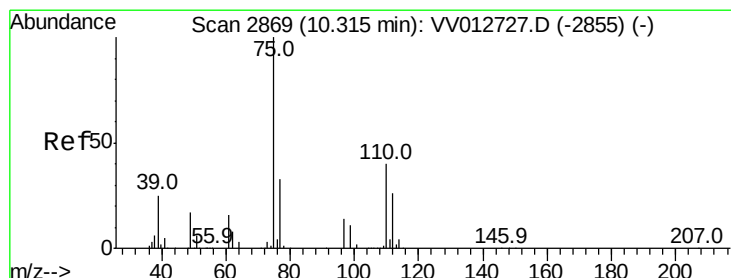
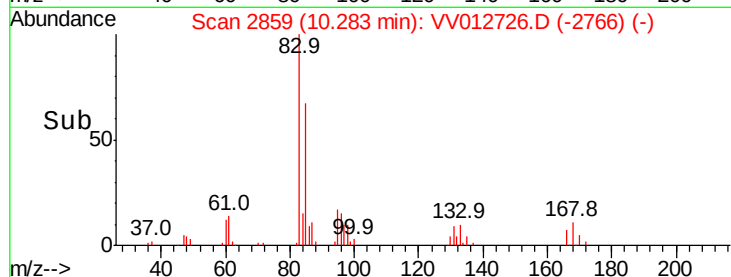
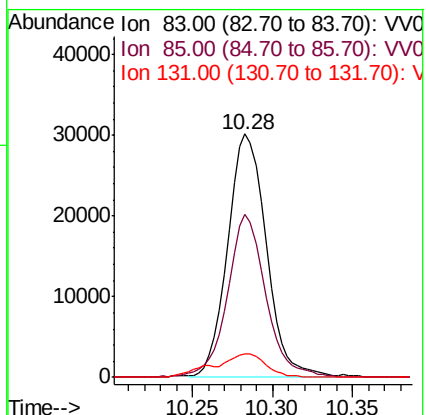
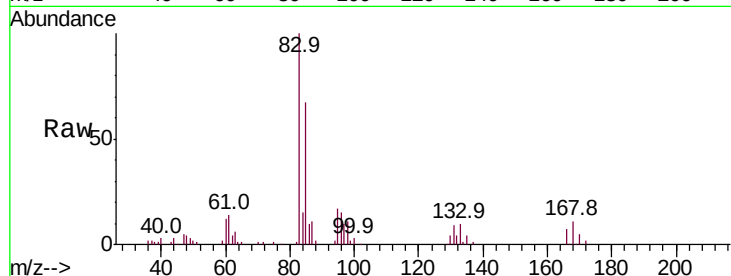
Tot Ion: 83 Resp: 49891

Ion Ratio Lower Upper

83 100

85 66.7 45.4 84.4

131 9.4 7.6 11.4



#59

1,2,3-Trichloropropane

Concen: 7.722 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012726.D

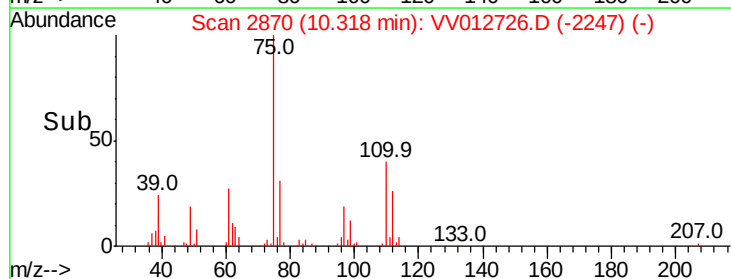
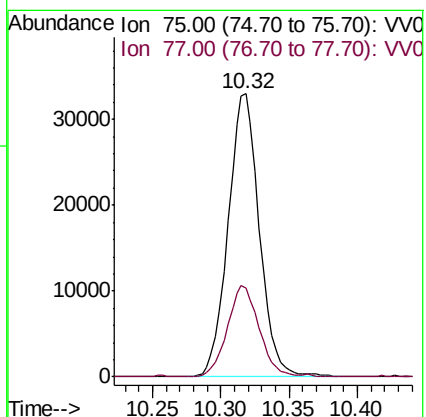
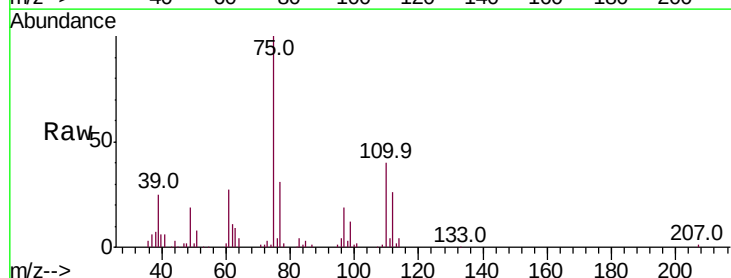
Acq: 13 Sep 2019 09:32

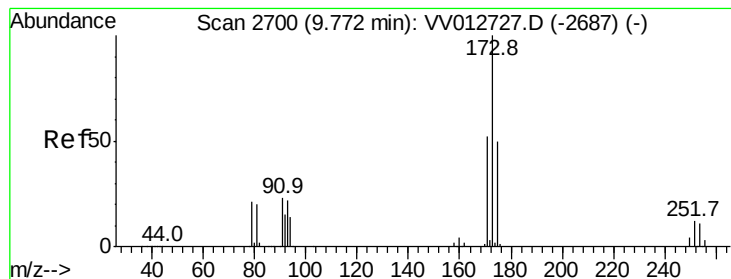
Tgt Ion: 75 Resp: 52430

Ion Ratio Lower Upper

75 100

77 32.9 25.9 38.9





#61

Bromoform

Concen: 7.876 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :  
MSVOA\_V  
ClientSampled :

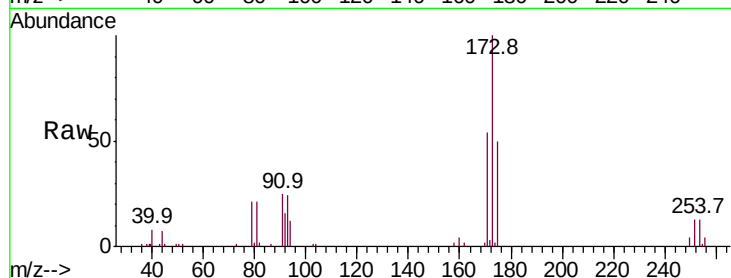
Tot Ion:173 Resp: 28268

Ion Ratio Lower Upper

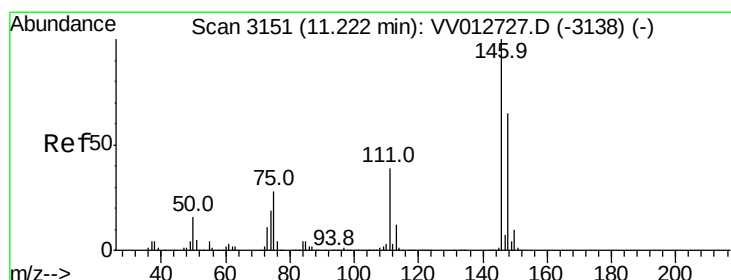
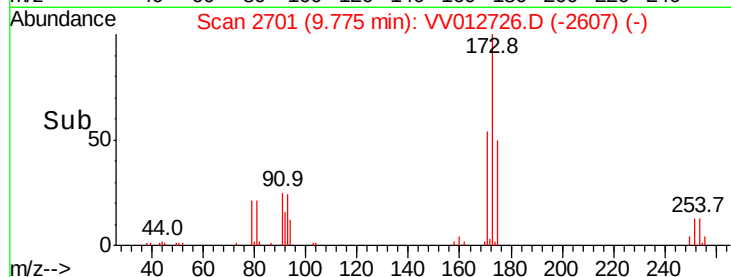
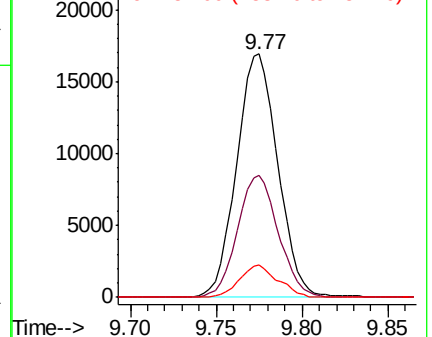
173 100

175 49.6 39.3 58.9

254 12.1 8.9 13.3



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 7.702 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

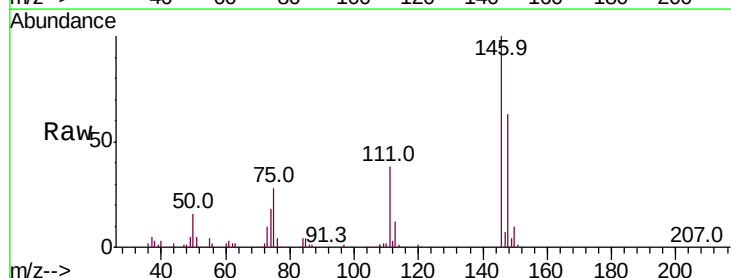
Tgt Ion:146 Resp: 70713

Ion Ratio Lower Upper

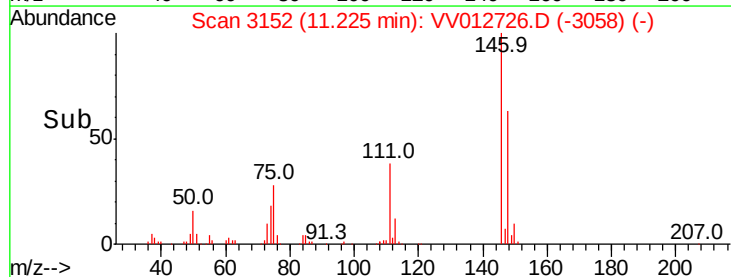
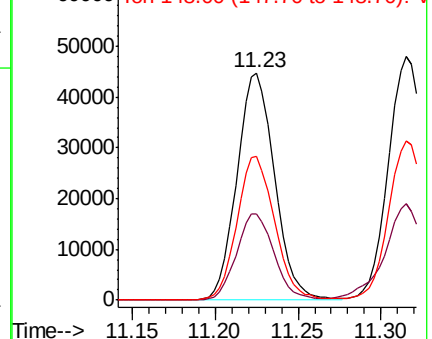
146 100

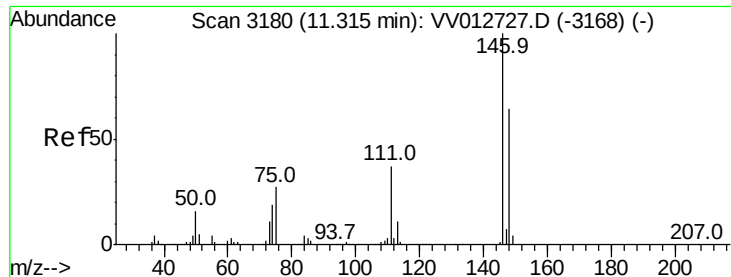
111 38.0 27.2 50.6

148 63.2 45.2 84.0



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





#63

1,4-Dichlorobenzene

Concen: 7.972 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

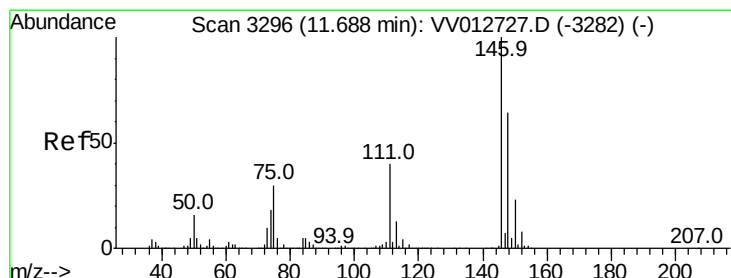
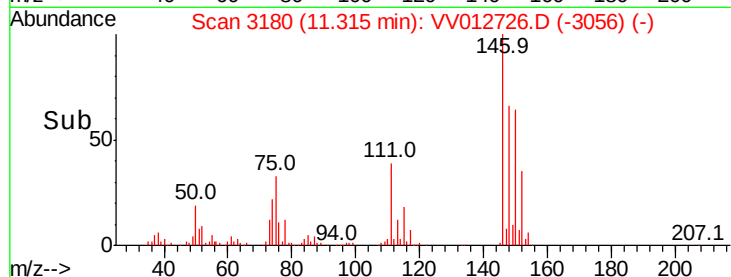
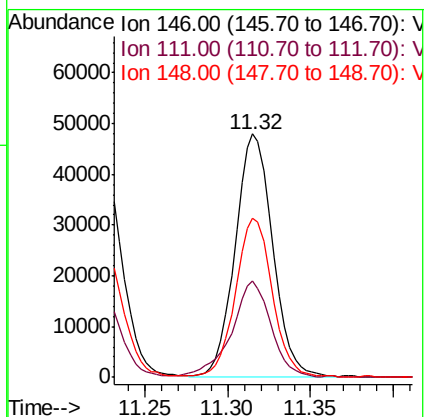
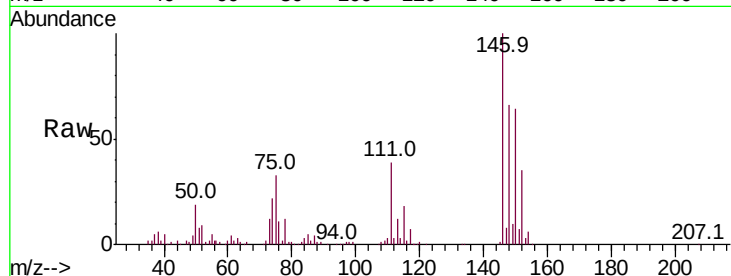
Tot Ion:146 Resp: 75073

Ion Ratio Lower Upper

146 100

111 39.4 26.2 48.8

148 65.6 45.0 83.6



#65

1,2-Dichlorobenzene

Concen: 7.947 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

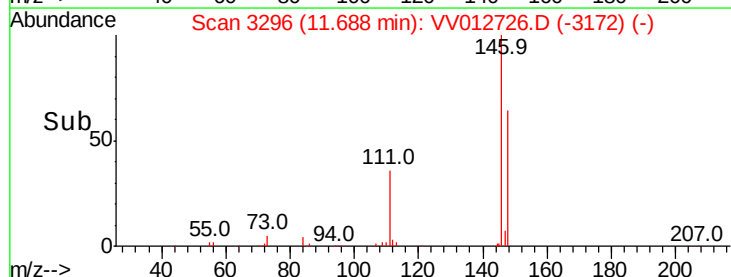
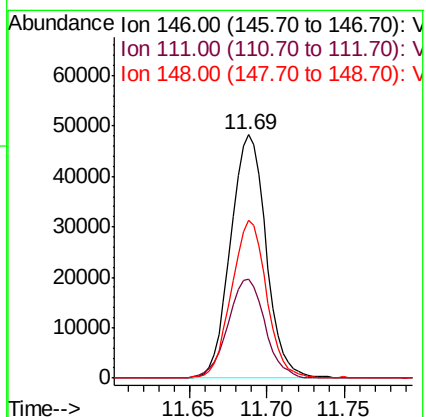
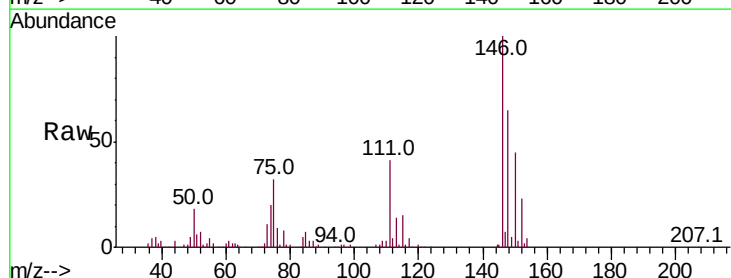
Tgt Ion:146 Resp: 76717

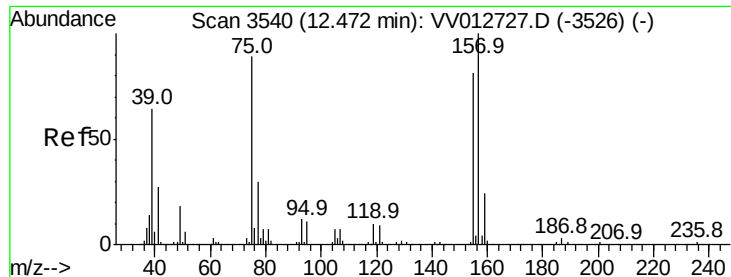
Ion Ratio Lower Upper

146 100

111 40.6 32.2 48.2

148 64.9 51.5 77.3





#66

1,2-Dibromo-3-chloropropane

Concen: 6.560 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

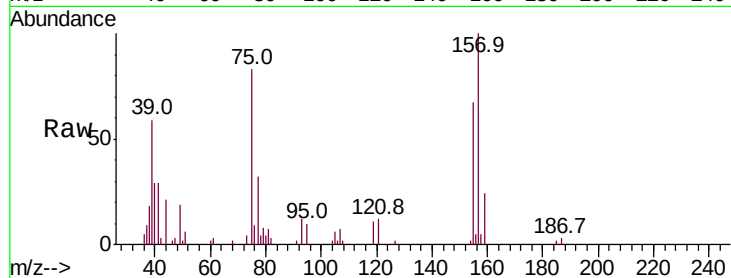
Tot Ion: 75 Resp: 8454

Ion Ratio Lower Upper

75 100

155 81.0 73.4 110.0

157 120.8 90.2 135.2

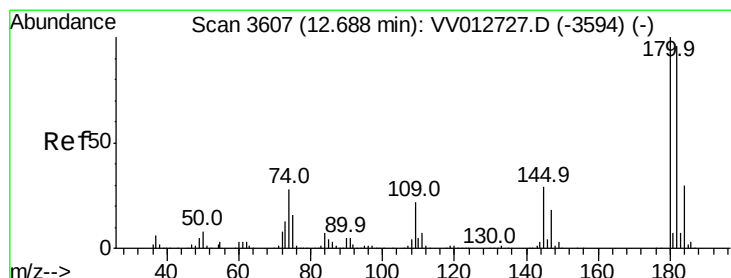
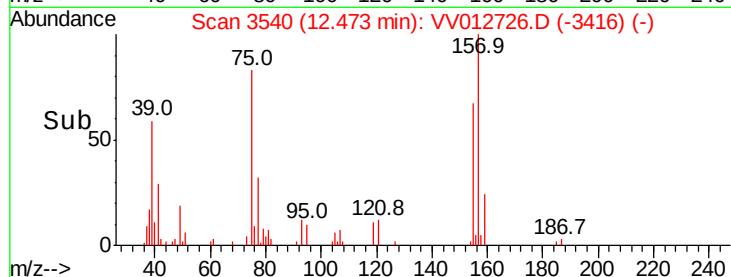


Abundance Ion 75.00 (74.70 to 75.70): VV012726.D (-3526) (-)

Ion 155.00 (154.70 to 155.70): VV012726.D (-3526) (-)

Ion 157.00 (156.70 to 157.70): VV012726.D (-3526) (-)

Time-->



#67

1,3,5-Trichlorobenzene

Concen: 7.325 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Tgt Ion: 180 Resp: 49684

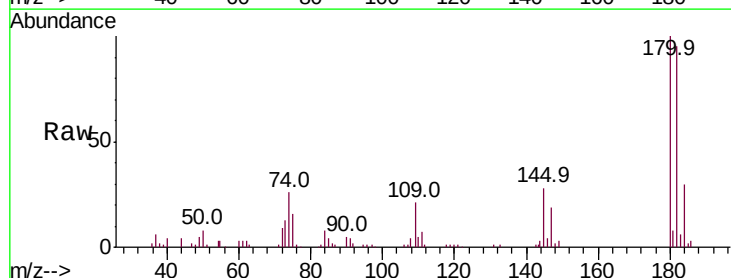
Ion Ratio Lower Upper

180 100

182 94.1 76.7 115.1

184 29.4 24.4 36.6

145 28.3 22.6 33.8



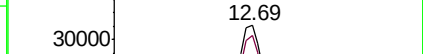
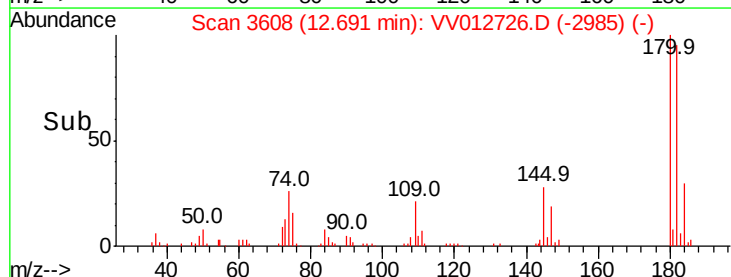
Abundance Ion 180.00 (179.70 to 180.70): VV012726.D (-2985) (-)

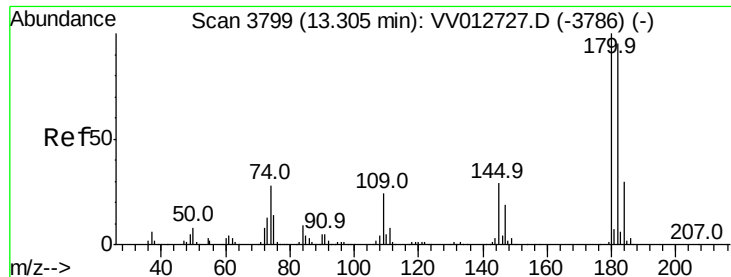
Ion 182.00 (181.70 to 182.70): VV012726.D (-2985) (-)

Ion 184.00 (183.70 to 184.70): VV012726.D (-2985) (-)

Ion 145.00 (144.70 to 145.70): VV012726.D (-2985) (-)

Time-->





#68

1,2,4-trichlorobenzene

Concen: 6.600 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

Instrument :

MSVOA\_V

ClientSampleId :

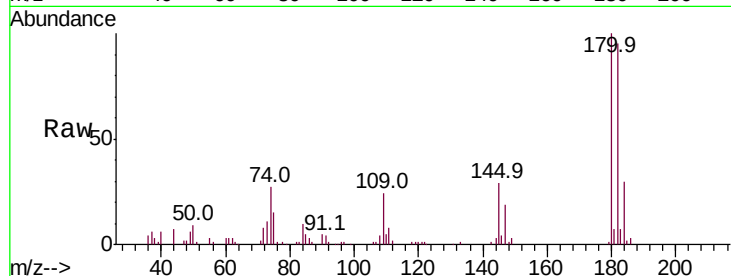
Tot Ion:180 Resp: 37822

Ion Ratio Lower Upper

180 100

182 95.2 76.8 115.2

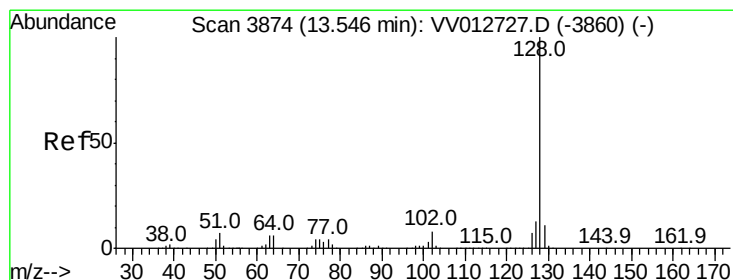
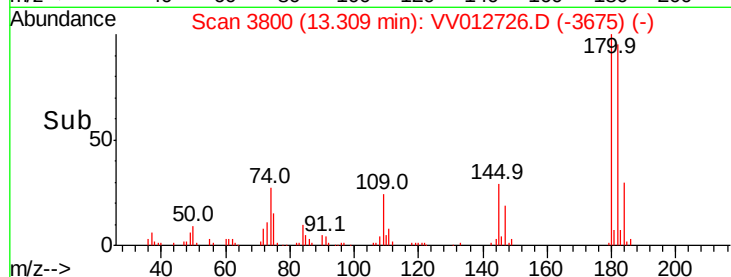
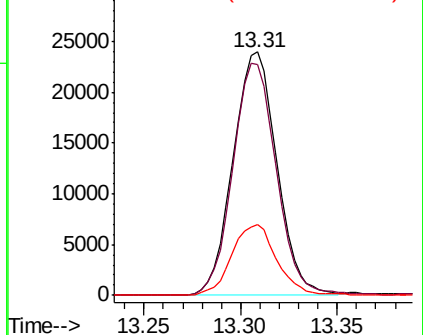
145 29.9 23.0 34.4



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: 5.699 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV012726.D

Acq: 13 Sep 2019 09:32

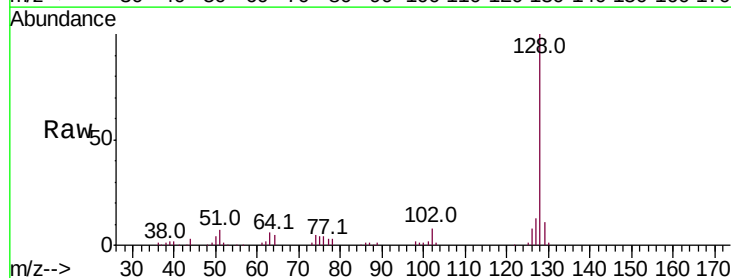
Tgt Ion:128 Resp: 94417

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

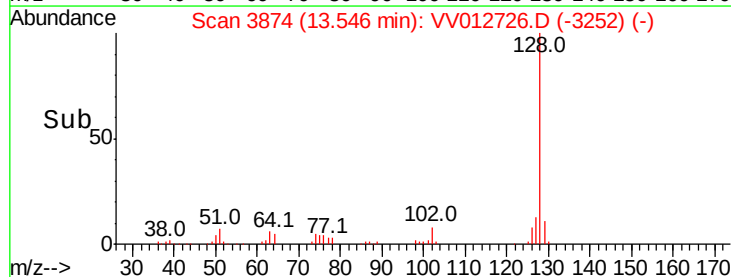
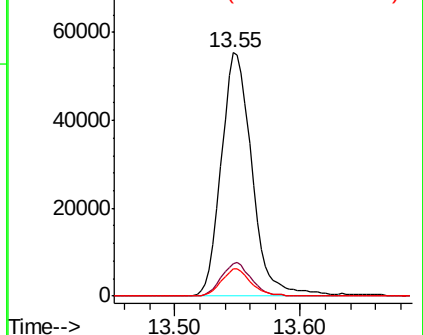
129 10.6 8.8 13.2

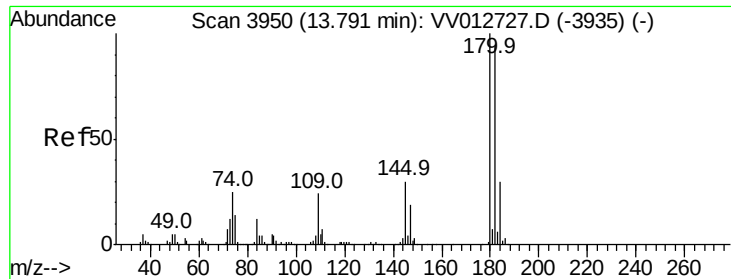


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

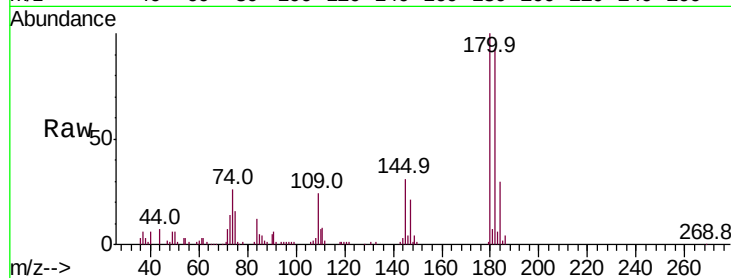




#70  
 1,2,3-Trichlorobenzene  
 Concen: 6.681 ug/L  
 RT: 13.79 min Scan# 3950  
 Delta R.T. 0.00 min  
 Lab File: VV012726.D  
 Acq: 13 Sep 2019 09:32

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 180   | Resp: | 41563 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.8  | 75.6  | 113.4 |
| 145      | 30.6  | 24.2  | 36.2  |



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

