

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021020\  
 Data File : VV014549.D  
 Acq On : 10 Feb 2020 14:09  
 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Manual Integrations  
 APPROVED

MMDadoda  
 2/12/2020 3:06:25 PM

Quant Time: Feb 11 05:31:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM020620W.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 11 04:43:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 327955   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 305017   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 153127   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 70445    | 39.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 79.22%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 52201    | 42.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.18%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 88277    | 32.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.36%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 130678   | 95.19    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.19%  |
| 24) Chloroform-d               | 4.40    | 84    | 195434   | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.44%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 125638   | 50.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.58% |
| 32) Benzene-d6                 | 5.10    | 84    | 413603   | 48.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 126711   | 48.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.86%  |
| 41) Toluene-d8                 | 7.36    | 98    | 382842   | 49.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.46%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 66861    | 48.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.30%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 105446   | 95.70    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.70%  |
| 56) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 170050   | 50.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.12% |
| 66) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 151256   | 51.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 6447     | 2.454 | ug/L   | 98     |
| 3) Chloromethane               | 1.26 | 50   | 6262     | 2.354 | ug/L   | 92     |
| 5) Vinyl chloride              | 1.32 | 62   | 4609     | 2.262 | ug/L # | 75     |
| 6) Bromomethane                | 1.53 | 94   | 1975     | 2.108 | ug/L   | 88     |
| 8) Chloroethane                | 1.60 | 64   | 2124     | 2.098 | ug/L   | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 6695     | 2.439 | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 3855     | 2.925 | ug/L # | 84     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 3648     | 2.894 | ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43   | 7039     | 6.124 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.32 | 76   | 13923    | 2.275 | ug/L   | 95     |
| 15) Methyl Acetate             | 2.46 | 43   | 4967     | 2.247 | ug/L   | 92     |
| 16) Methylene chloride         | 2.54 | 84   | 6923     | 2.892 | ug/L   | 89     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96   | 5758     | 2.593 | ug/L   | 99     |
| 18) Methyl tert-butyl Ether    | 2.80 | 73   | 17241    | 2.452 | ug/L # | 96     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 9547     | 2.404 | ug/L   | 94     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96   | 6243     | 2.498 | ug/L   | 88     |
| 22) 2-Butanone                 | 4.03 | 43   | 5954     | 3.502 | ug/L   | 94     |

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 Operator : SY/MD  
 Sample : MDL05  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Manual Integrations  
 APPROVED

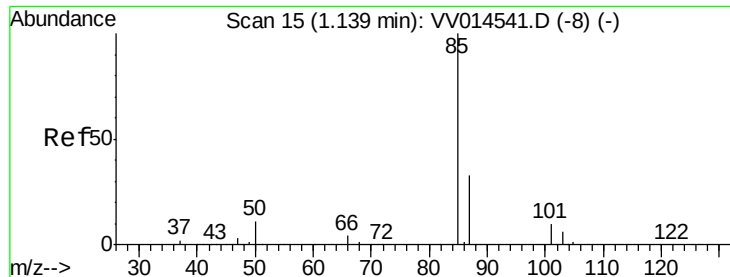
MMDadoda  
 2/12/2020 3:06:25 PM

Quant Time: Feb 11 05:31:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVLM020620W.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Feb 11 04:43:03 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.31  | 128  | 2871m    | 2.426 | ug/L   |          |
| 25) Chloroform                 | 4.42  | 83   | 14758    | 3.655 | ug/L   | 95       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 7936     | 2.638 | ug/L   | 97       |
| 29) Cyclohexane                | 4.72  | 56   | 8585     | 2.289 | ug/L # | 87       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 8718     | 2.504 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 4.87  | 117  | 7641     | 2.488 | ug/L   | 92       |
| 33) Benzene                    | 5.15  | 78   | 22434    | 2.502 | ug/L   | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 5944     | 2.501 | ug/L   | 92       |
| 35) Methylcyclohexane          | 6.18  | 83   | 9439     | 2.430 | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 6.22  | 63   | 5263     | 2.304 | ug/L   | 98       |
| 38) Bromodichloromethane       | 6.55  | 83   | 7772     | 2.535 | ug/L # | 92       |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 9500     | 2.493 | ug/L   | 94       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 12959    | 4.390 | ug/L   | 100      |
| 42) Toluene                    | 7.43  | 91   | 24815    | 2.581 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 8260     | 2.418 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 5386     | 2.458 | ug/L   | 93       |
| 46) Tetrachloroethene          | 8.02  | 164  | 4618     | 2.547 | ug/L   | 96       |
| 48) 2-Hexanone                 | 8.18  | 43   | 11972    | 5.269 | ug/L   | 89       |
| 49) Dibromochloromethane       | 8.29  | 129  | 5881     | 2.377 | ug/L   | 90       |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 5872     | 2.474 | ug/L   | 99       |
| 51) Chlorobenzene              | 8.92  | 112  | 15937    | 2.538 | ug/L   | 97       |
| 52) Ethylbenzene               | 9.05  | 91   | 26882    | 2.493 | ug/L   | 98       |
| 53) m,p-Xylene                 | 9.18  | 106  | 10260    | 2.470 | ug/L   | 99       |
| 54) o-Xylene                   | 9.59  | 106  | 9956     | 2.505 | ug/L   | 98       |
| 55) Styrene                    | 9.60  | 104  | 16844    | 2.479 | ug/L   | 95       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 9432     | 2.746 | ug/L # | 94       |
| 59) Bromoform                  | 9.77  | 173  | 3929     | 2.300 | ug/L # | 91       |
| 60) Isopropylbenzene           | 9.97  | 105  | 26194    | 2.530 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 10.31 | 75   | 6792     | 2.505 | ug/L   | 95       |
| 62) 1,3,5-Trimethylbenzene     | 10.58 | 105  | 20327    | 2.293 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene     | 10.95 | 105  | 20130    | 2.303 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene        | 11.22 | 146  | 12192    | 2.496 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene        | 11.31 | 146  | 13165    | 2.618 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene        | 11.68 | 146  | 12886    | 2.721 | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 1895     | 2.495 | ug/L # | 89       |
| 69) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 8330     | 2.421 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.31 | 180  | 7656     | 2.423 | ug/L   | 99       |
| 71) Naphthalene                | 13.55 | 128  | 23291    | 2.244 | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 6815     | 2.220 | ug/L   | 96       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 2.454 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 6447

Ion Ratio Lower Upper

85 100

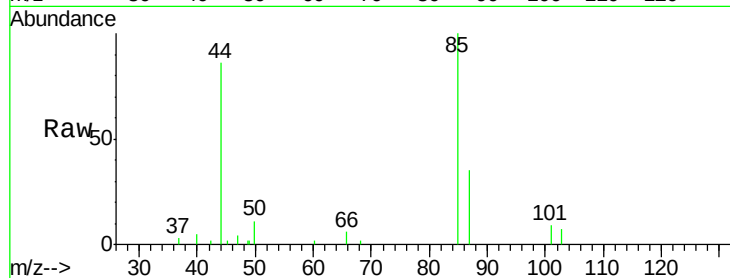
87 33.1 25.7 38.5

Manual Integrations

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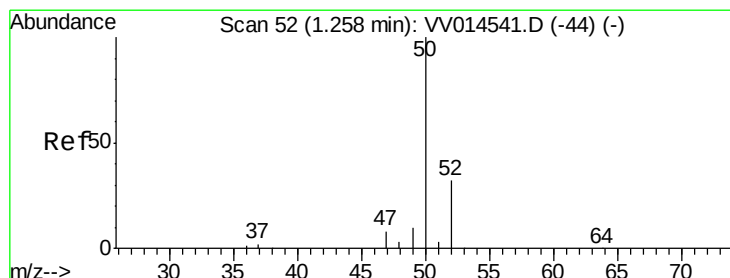
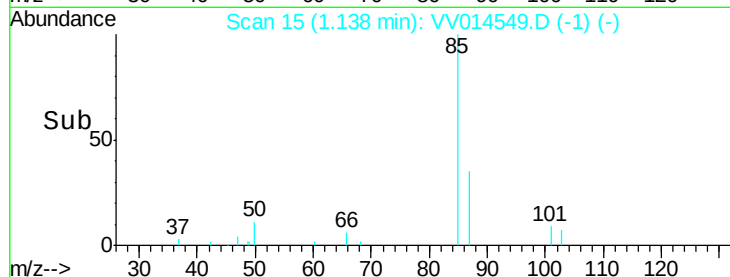
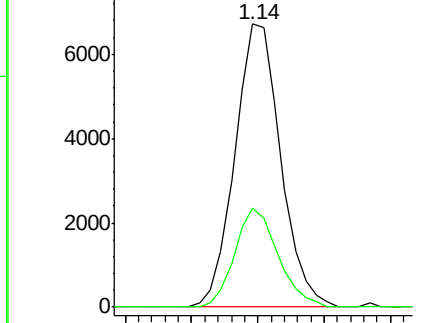
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.354 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014549.D

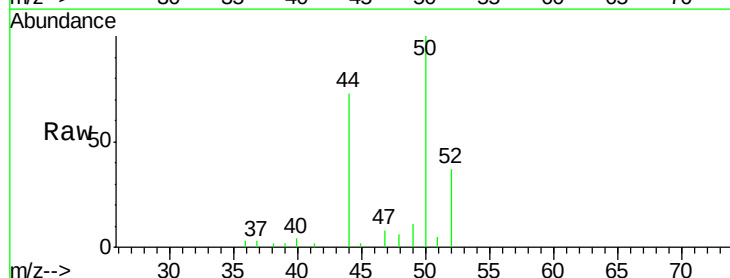
Acq: 10 Feb 2020 14:09

Tgt Ion: 50 Resp: 6262

Ion Ratio Lower Upper

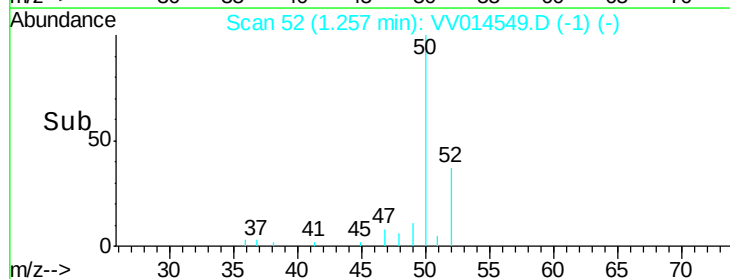
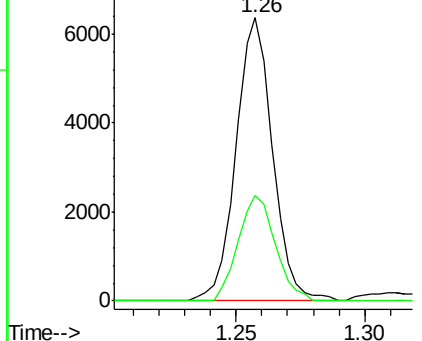
50 100

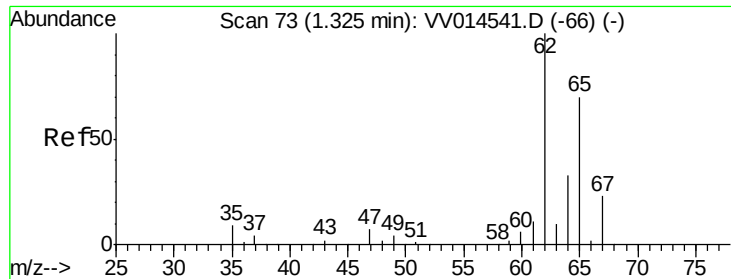
52 37.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.262 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampled :

MDL05

Tot Ion: 62 Resp: 4609

Ion Ratio Lower Upper

62 100

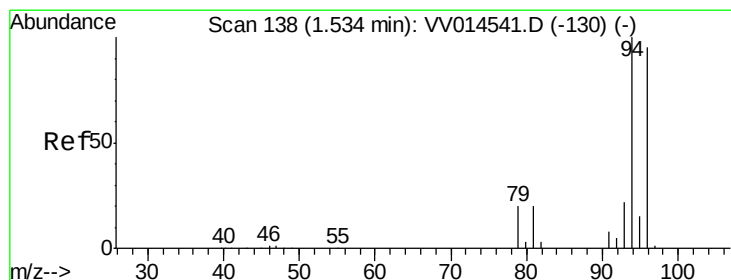
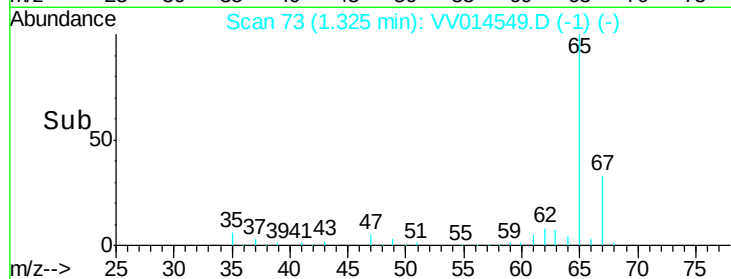
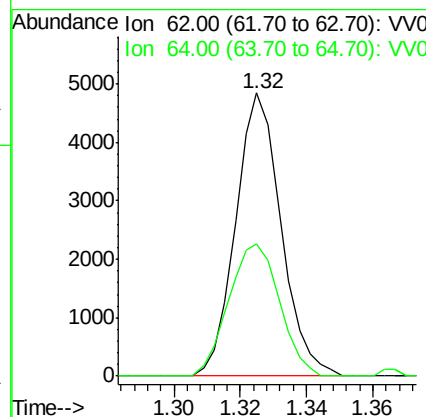
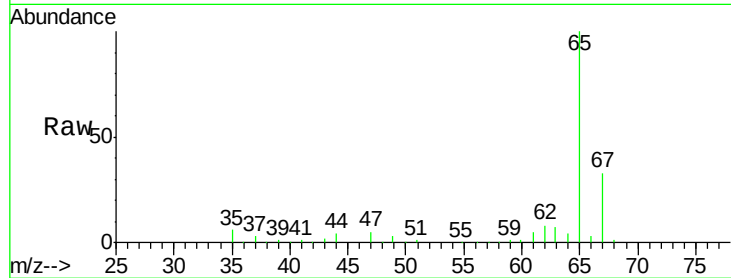
64 46.9 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 2.108 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014549.D

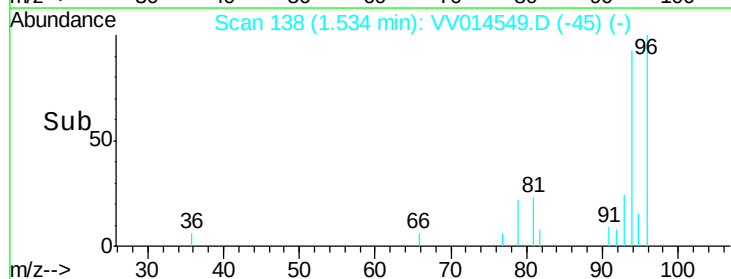
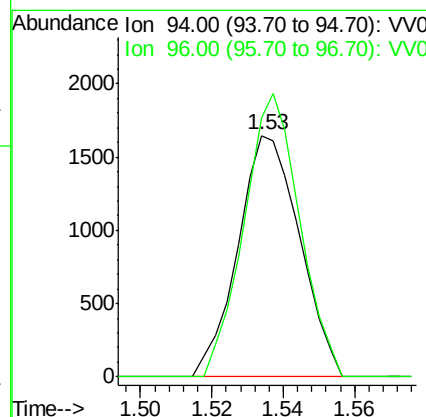
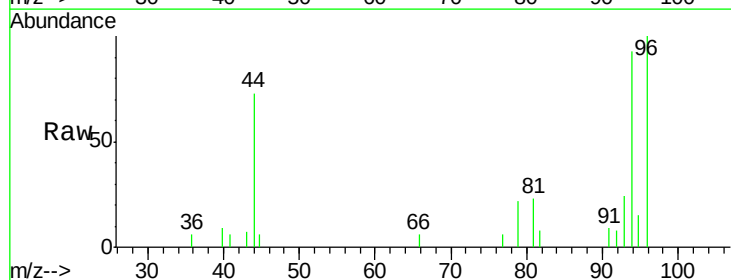
Acq: 10 Feb 2020 14:09

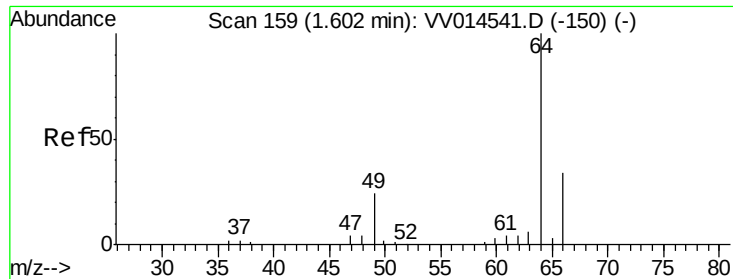
Tgt Ion: 94 Resp: 1975

Ion Ratio Lower Upper

94 100

96 107.4 67.3 124.9





#8

Chloroethane

Concen: 2.098 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

Tot Ion: 64 Resp: 2124

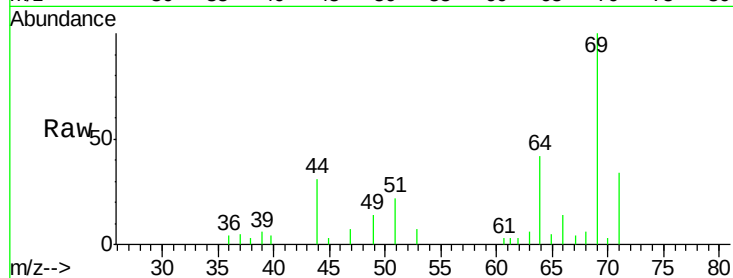
Ion Ratio Lower Upper

64 100

66 34.0 22.4 41.6

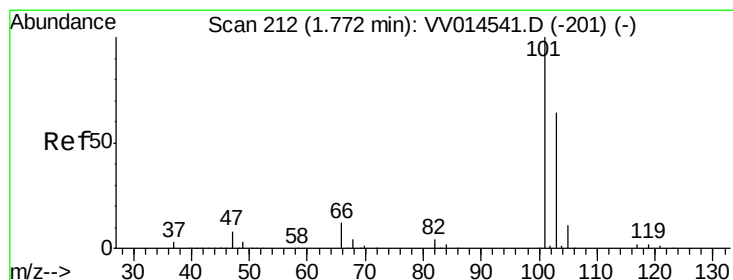
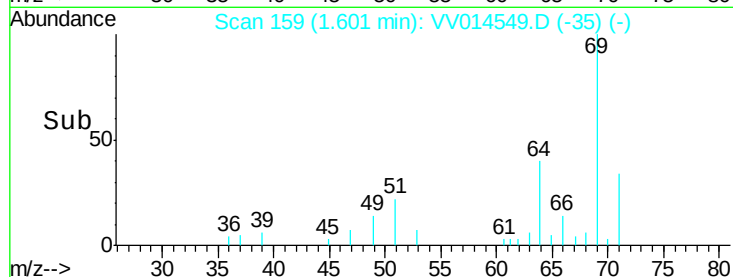
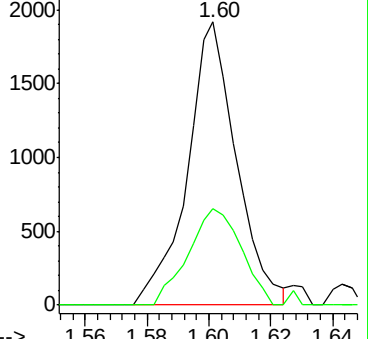
Manual Integrations  
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2/12/2020 3:06:25 PM



Abundance Ion 64.00 (63.70 to 64.70): VV014541.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014541.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 2.439 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV014549.D

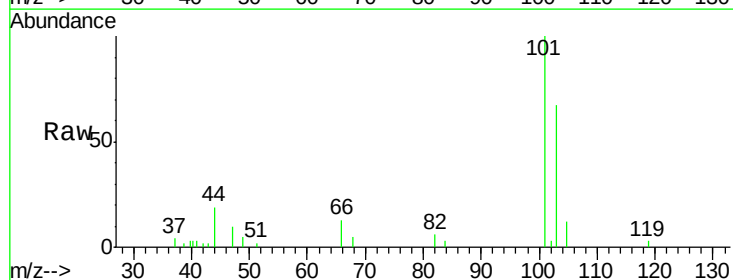
Acq: 10 Feb 2020 14:09

Tgt Ion: 101 Resp: 6695

Ion Ratio Lower Upper

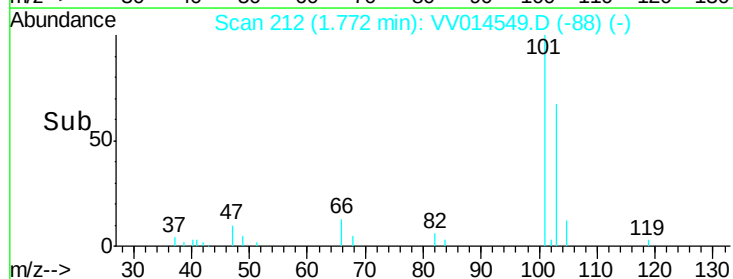
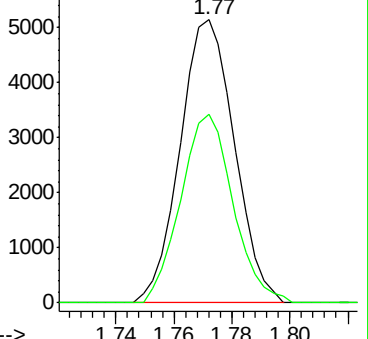
101 100

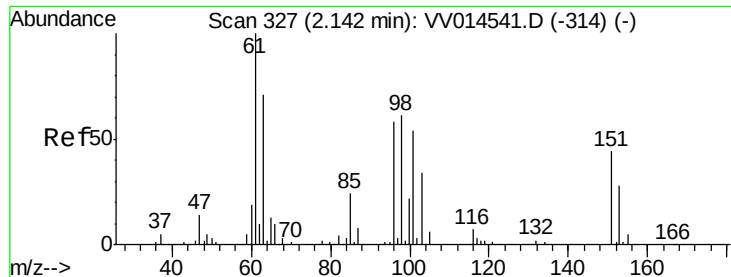
103 64.3 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV014541.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014541.D (-201) (-)





#10

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

Concen: 2.925 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

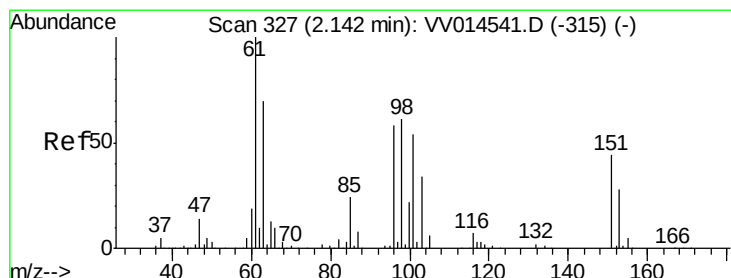
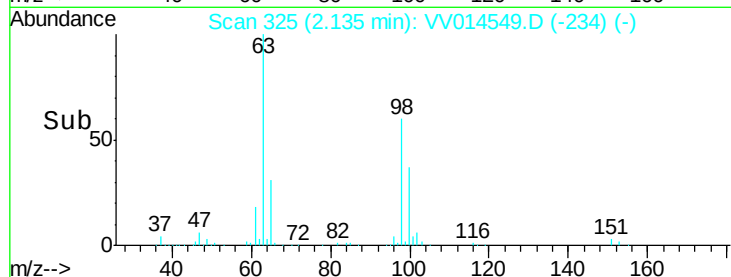
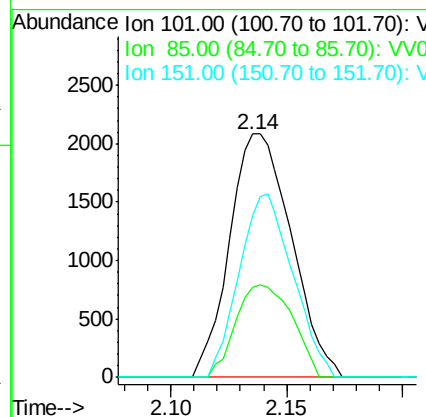
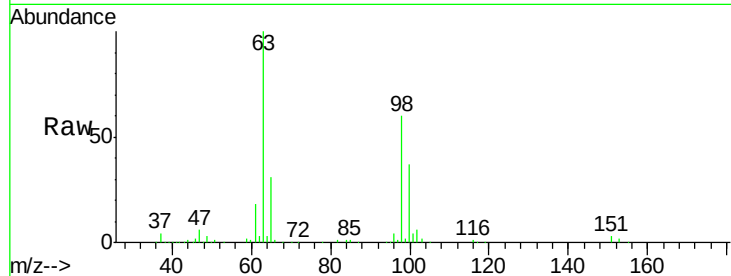
ClientSampled :

MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 101   | Resp: | 3855  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 34.7  | 35.0  | 52.6# |
| 151      | 65.4  | 64.4  | 96.6  |

Manual Integrations  
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#12

1,1-Dichloroethene

Concen: 2.894 ug/L

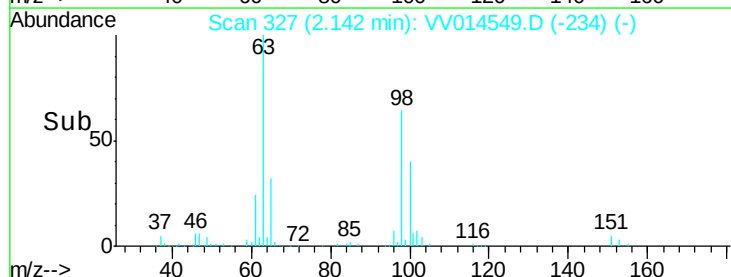
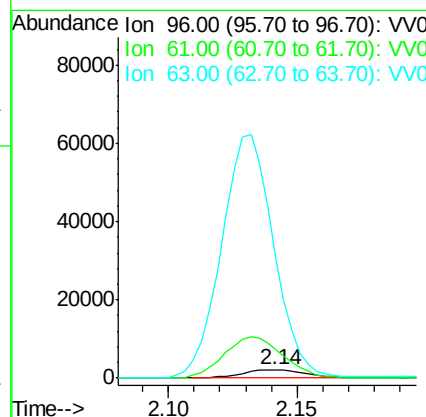
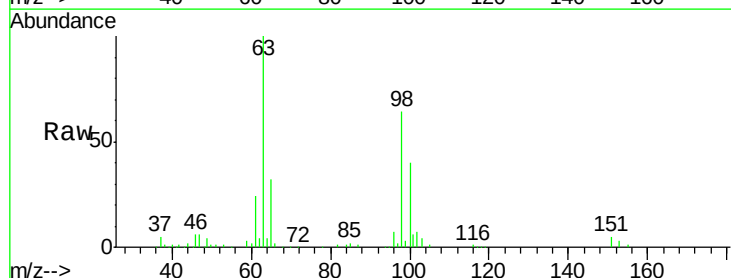
RT: 2.14 min Scan# 327

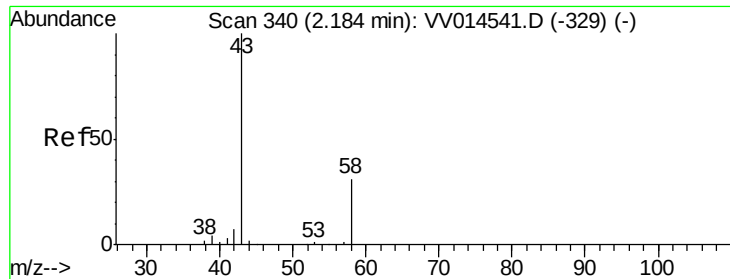
Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

|          |        |       |        |
|----------|--------|-------|--------|
| Tgt Ion: | 96     | Resp: | 3648   |
| Ion      | Ratio  | Lower | Upper  |
| 96       | 100    |       |        |
| 61       | 334.2  | 125.0 | 232.2# |
| 63       | 1391.0 | 101.6 | 188.6# |





#13

Acetone

Concen: 6.124 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampled :

MDL05

Tot Ion: 43 Resp: 7039

Ion Ratio Lower Upper

43 100

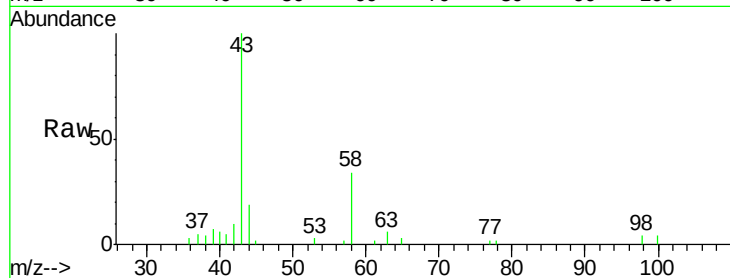
58 30.4 0.0 61.8

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

4000

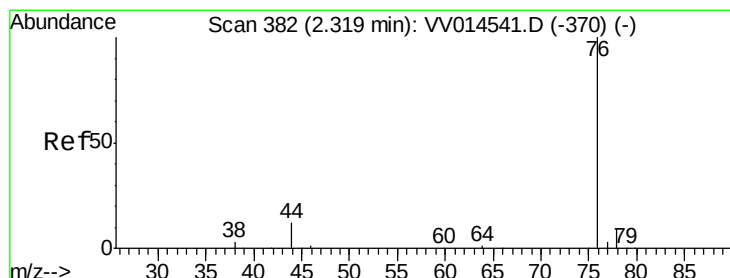
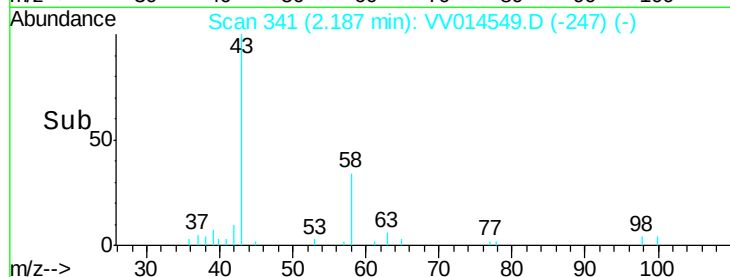
3000

2000

1000

0

Time-->



#14

Carbon disulfide

Concen: 2.275 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014549.D

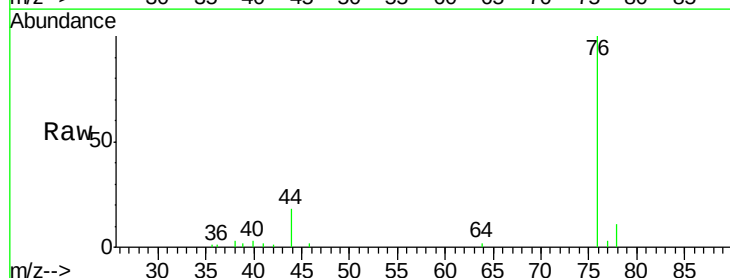
Acq: 10 Feb 2020 14:09

Tgt Ion: 76 Resp: 13923

Ion Ratio Lower Upper

76 100

78 10.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

10000

8000

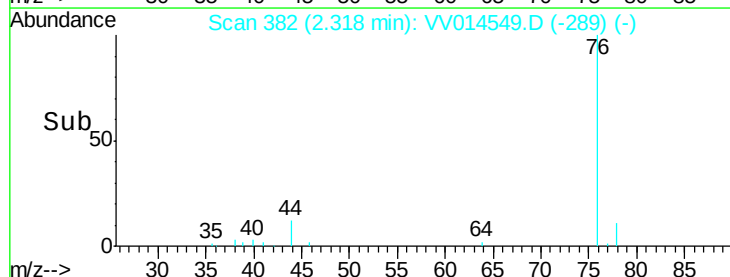
6000

4000

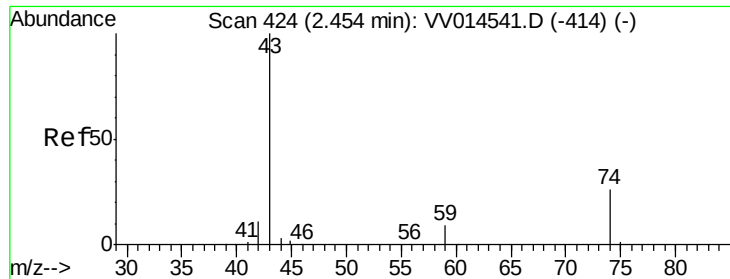
2000

0

Time-->







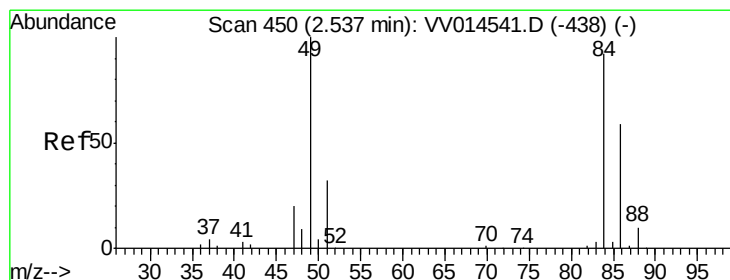
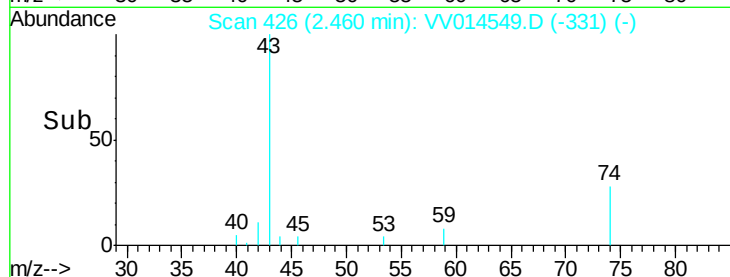
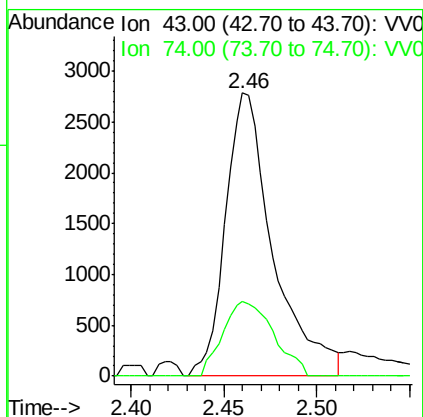
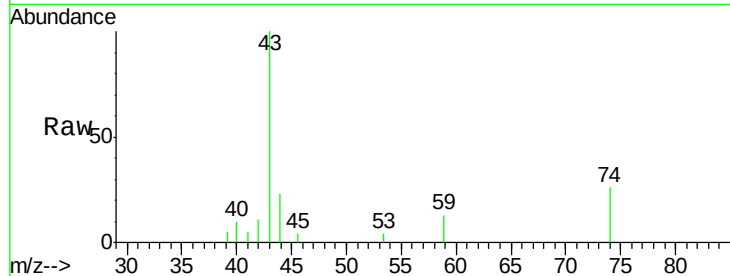
#15  
Methvl Acetate  
Concen: 2.247 ug/L  
RT: 2.46 min Scan# 426  
Delta R.T. 0.01 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

Tot Ion: 43 Resp: 4967  
Ion Ratio Lower Upper  
43 100  
74 28.2 19.4 29.0

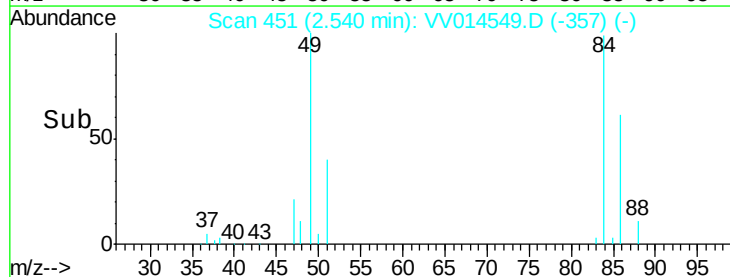
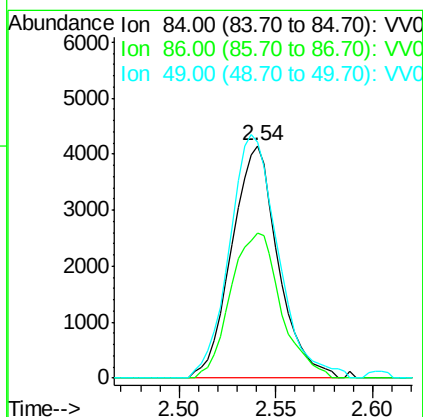
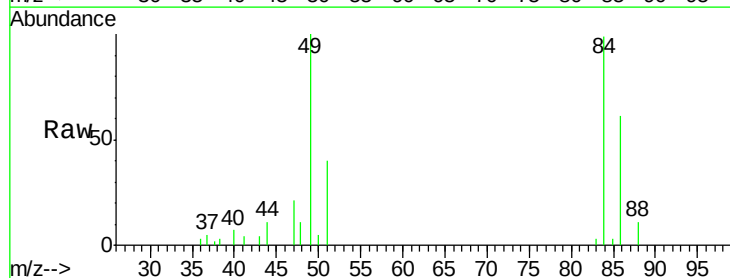
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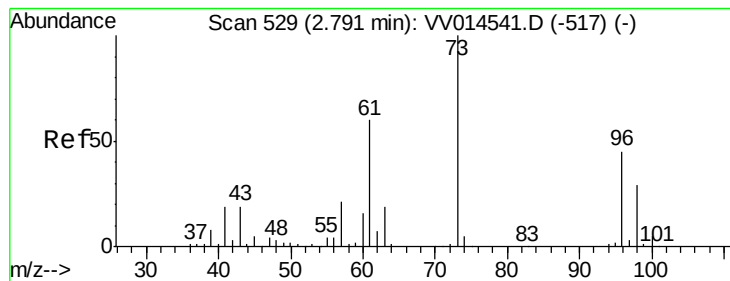
MMDadoda  
2/12/2020 3:06:25 PM



#16  
Methylene chloride  
Concen: 2.892 ug/L  
RT: 2.54 min Scan# 451  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Tgt Ion: 84 Resp: 6923  
Ion Ratio Lower Upper  
84 100  
86 62.1 44.6 82.8  
49 101.3 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.593 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

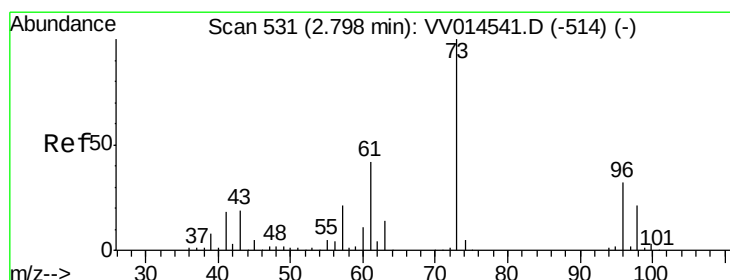
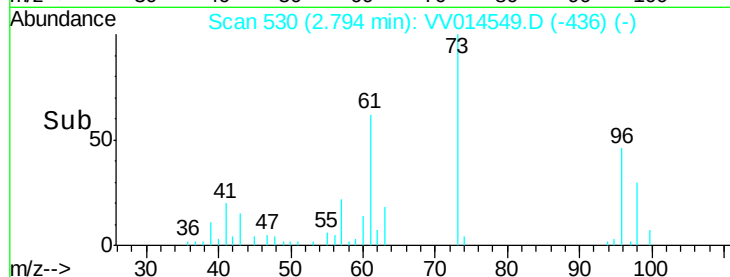
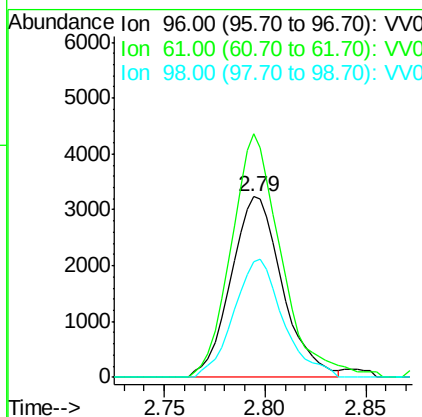
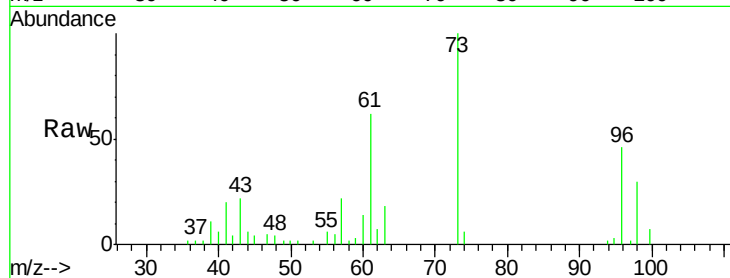
ClientSampled :

MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 5758  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 134.6 | 95.8  | 178.0 |
| 98       | 63.9  | 45.1  | 83.7  |

Manual Integrations  
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2/12/2020 3:06:25 PM



#18

Methyl tert-butyl Ether

Concen: 2.452 ug/L

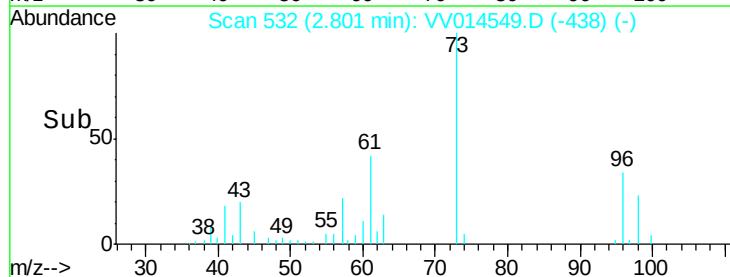
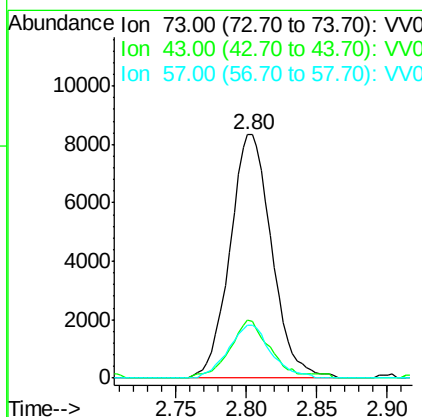
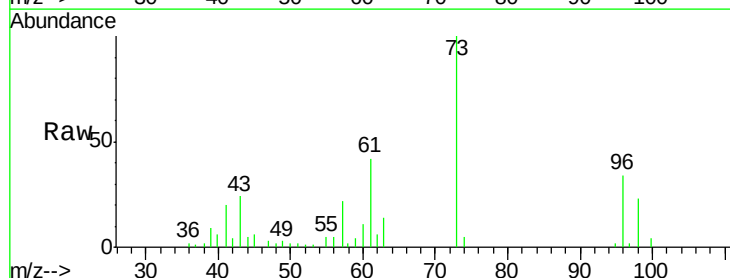
RT: 2.80 min Scan# 532

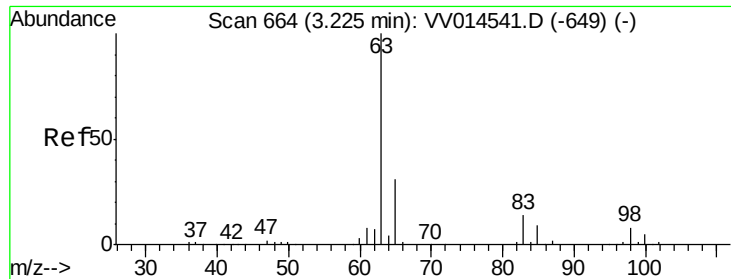
Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 17241 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 43       | 22.4  | 14.9  | 22.3# |
| 57       | 22.1  | 17.5  | 26.3  |





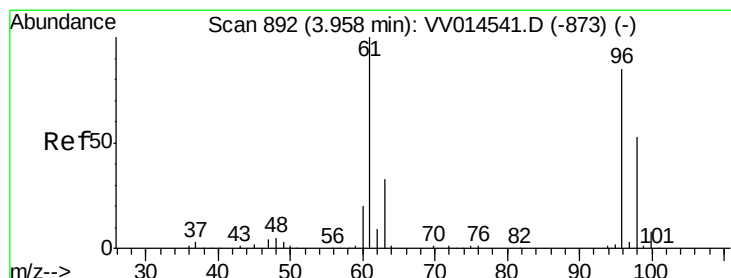
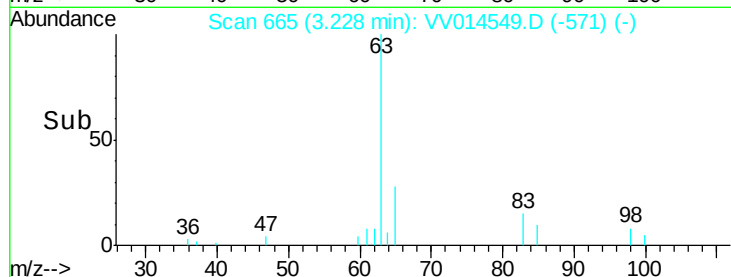
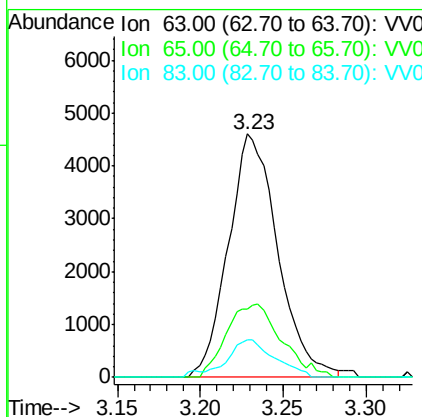
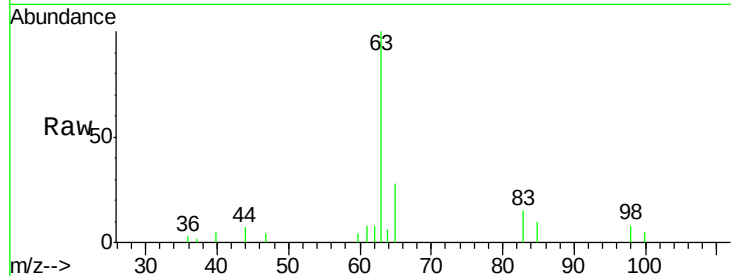
#19  
 1,1-Dichloroethane  
 Concen: 2.404 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 9547  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 28.3  | 22.5  | 41.7  |
| 83       | 15.3  | 9.7   | 18.1  |

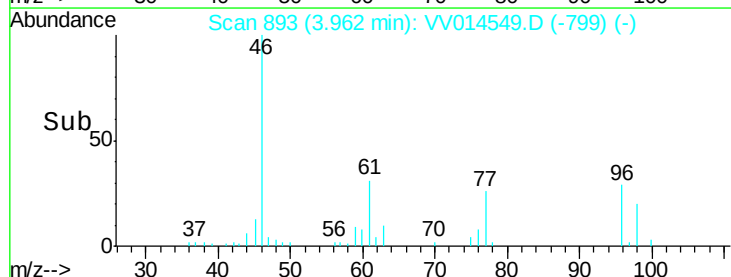
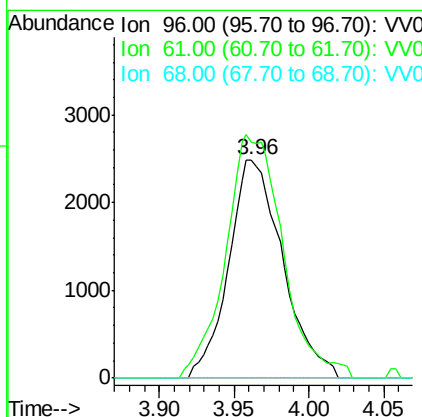
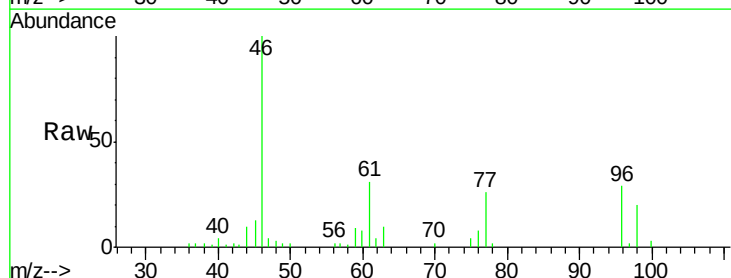
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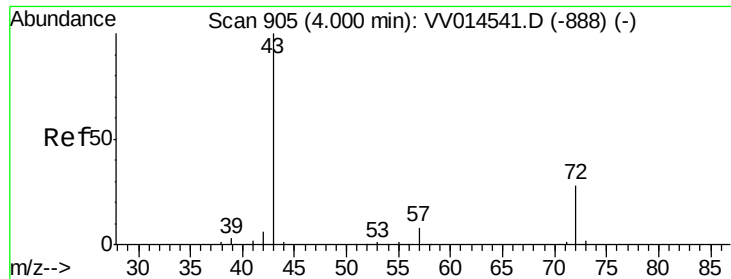
MMDadoda  
 2/12/2020 3:06:25 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.498 ug/L  
 RT: 3.96 min Scan# 893  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 6243  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 108.1 | 85.2  | 158.2 |
| 68       | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 3.502 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.03 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampled :

MDL05

Tot Ion: 43 Resp: 5954

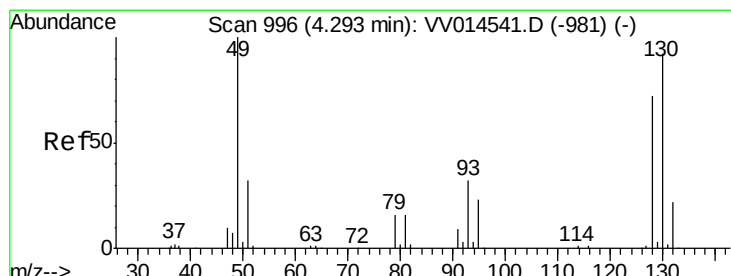
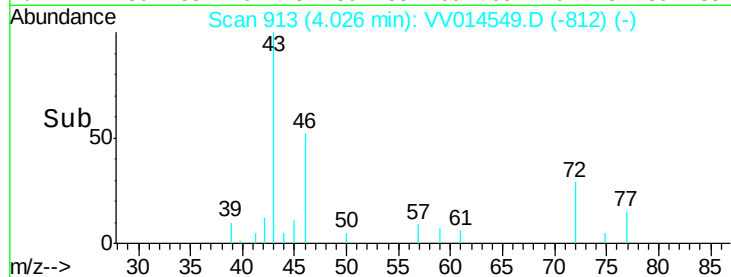
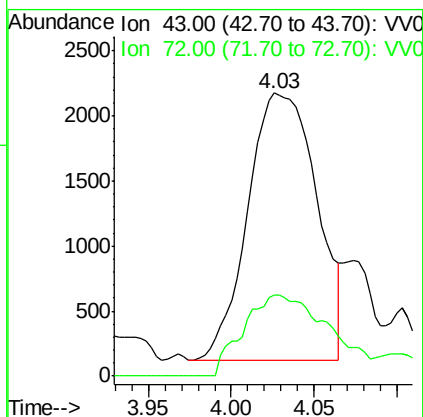
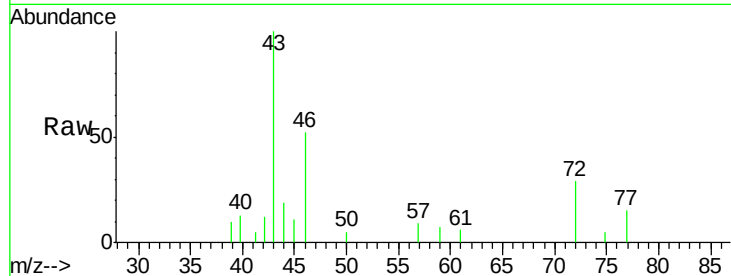
Ion Ratio Lower Upper

43 100

72 22.2 12.7 38.1

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2/12/2020 3:06:25 PM



#23

Bromochloromethane

Concen: 2.426 ug/L m

RT: 4.31 min Scan# 1001

Delta R.T. 0.02 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Tgt Ion: 128 Resp: 2871

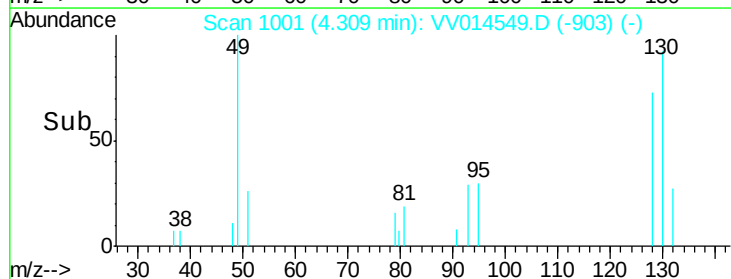
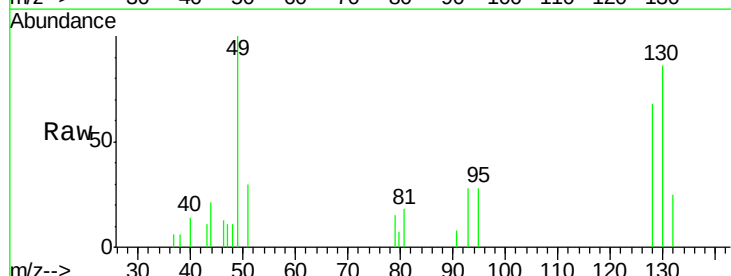
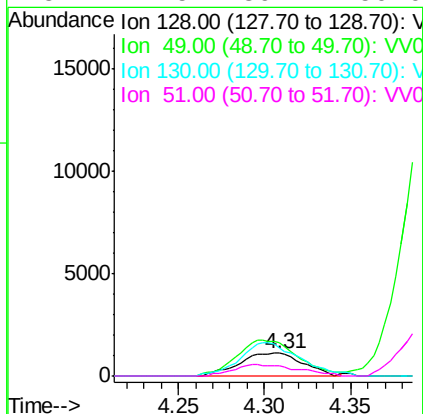
Ion Ratio Lower Upper

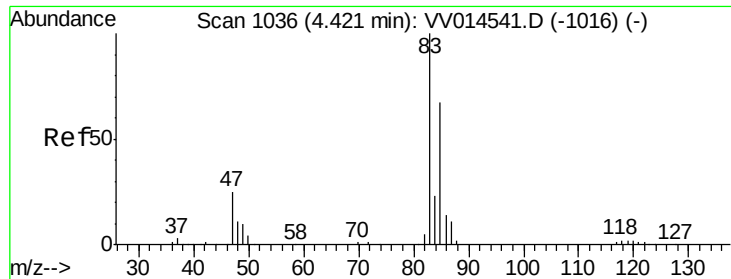
128 100

49 146.3 110.1 204.5

130 126.0 88.5 164.4

51 44.5 39.4 59.0





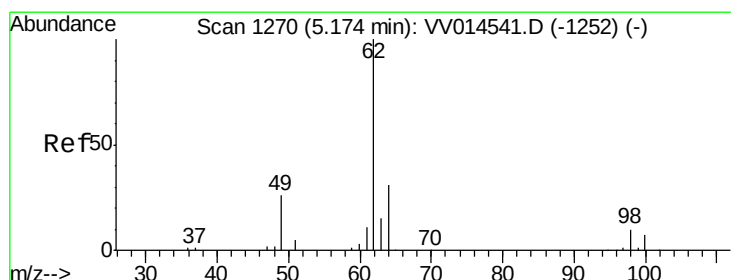
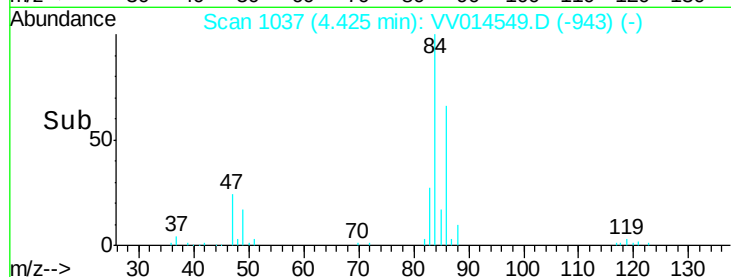
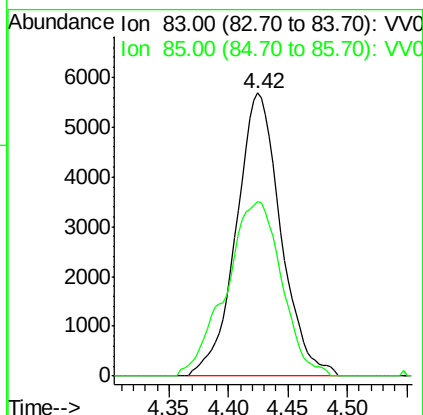
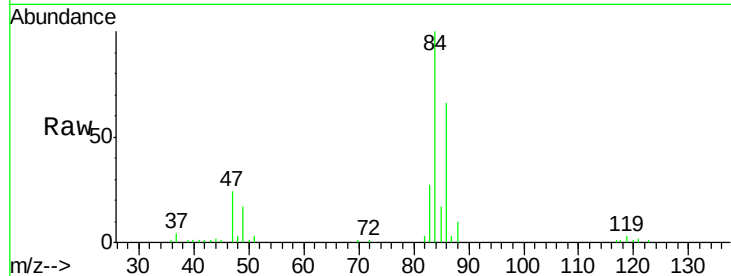
#25  
Chloroform  
Concen: 3.655 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

| Tot Ion   | 83   | Resp  | 14758 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 61.6 | 45.8  | 85.0  |

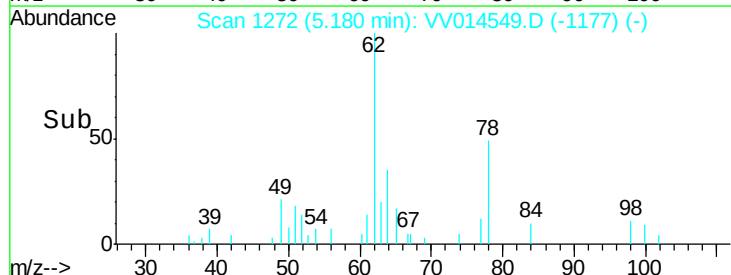
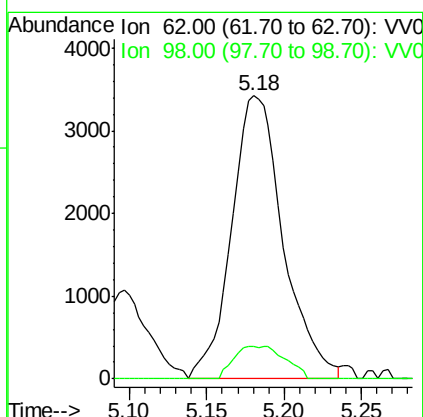
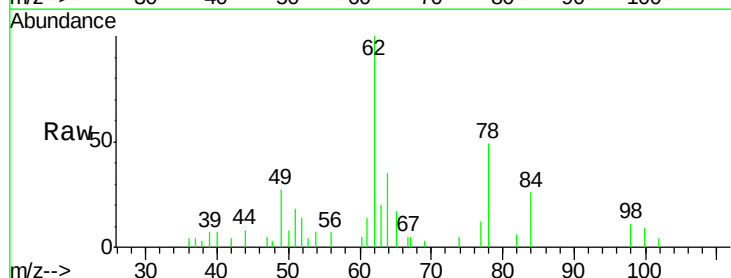
Manual Integrations  
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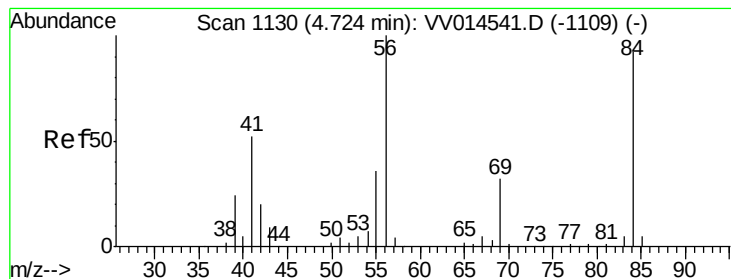
MMDadoda  
2/12/2020 3:06:25 PM



#27  
1,2-Dichloroethane  
Concen: 2.638 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. 0.01 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

| Tgt Ion   | 62   | Resp  | 7936  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 98        | 11.4 | 8.2   | 12.4  |





#29

Cyclohexane

Concen: 2.289 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

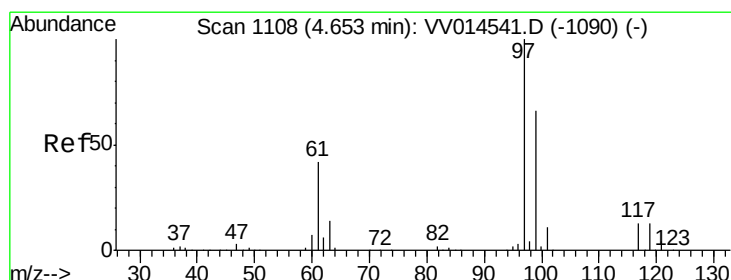
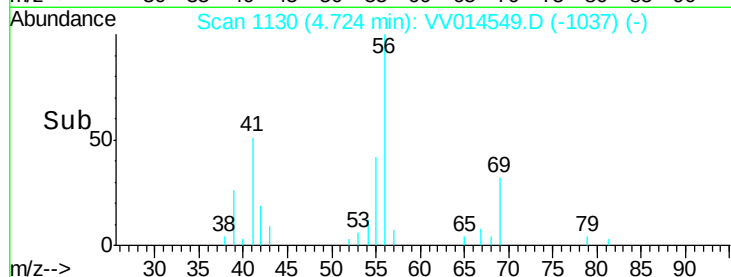
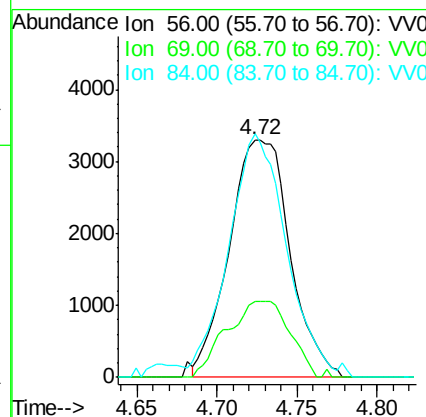
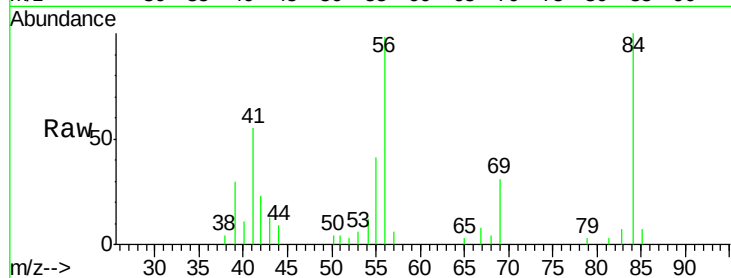
ClientSampleId :

MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 56    | Resp: | 8585  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 21.0  | 25.2  | 37.8# |
| 84       | 97.3  | 69.8  | 104.8 |

Manual Integrations  
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MMDadoda  
2/12/2020 3:06:25 PM



#30

1,1,1-Trichloroethane

Concen: 2.504 ug/L

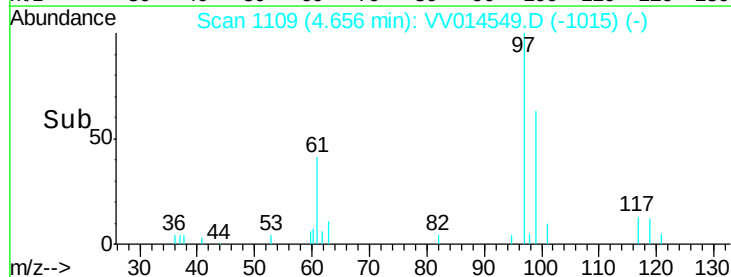
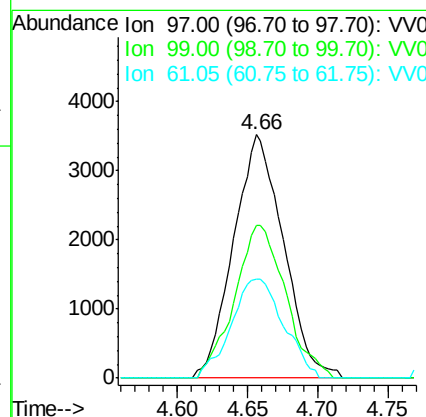
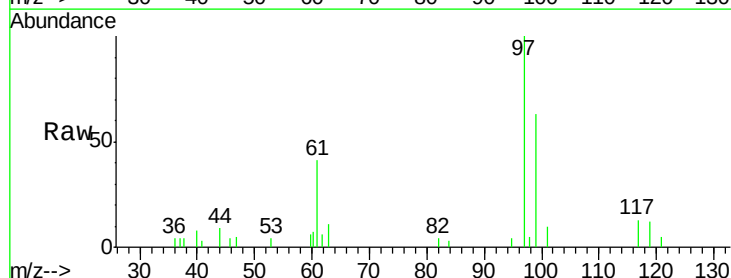
RT: 4.66 min Scan# 1109

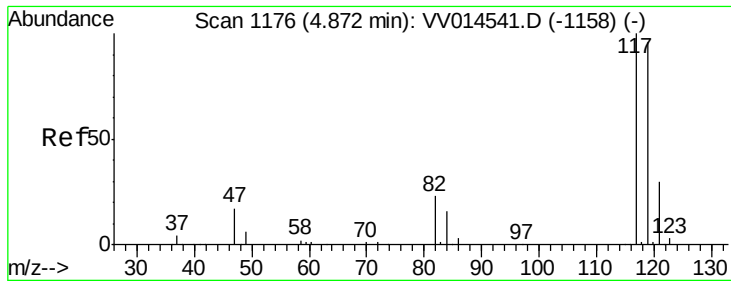
Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 8718  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.1  | 50.6  | 76.0  |
| 61       | 42.4  | 33.0  | 49.4  |





#31

Carbon tetrachloride

Concen: 2.488 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

Tot Ion:117 Resp: 7641

Ion Ratio Lower Upper

117 100

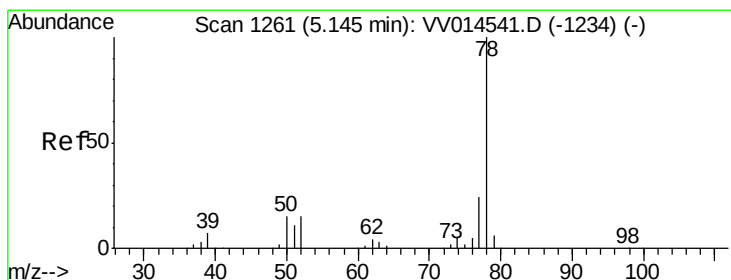
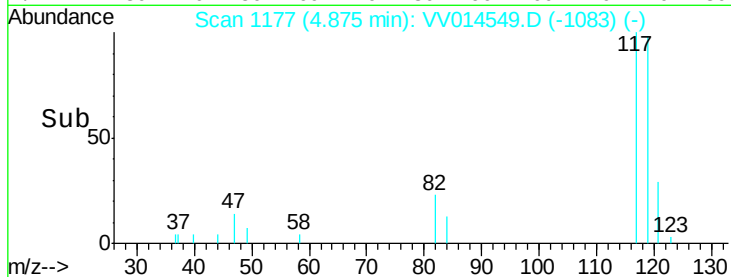
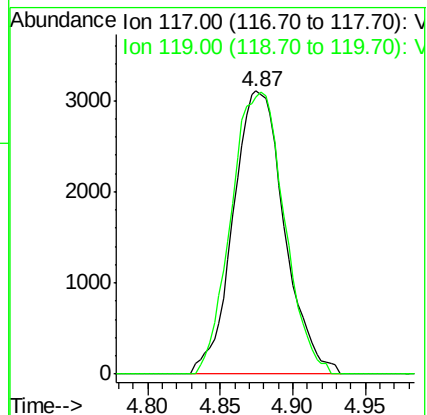
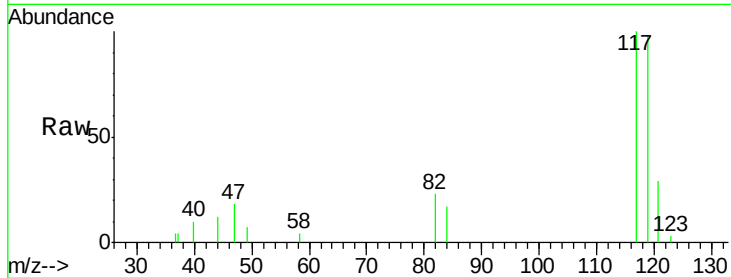
119 103.3 76.7 115.1

Manual Integrations

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MMDadoda

2/12/2020 3:06:25 PM



#33

Benzene

Concen: 2.502 ug/L

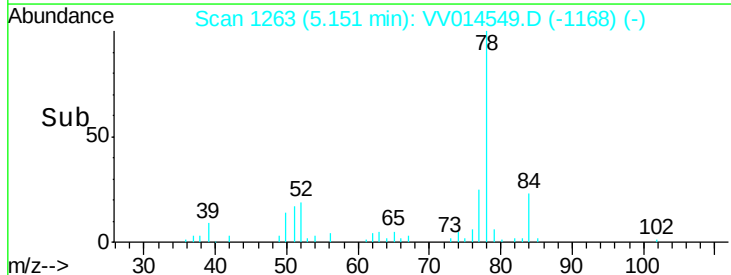
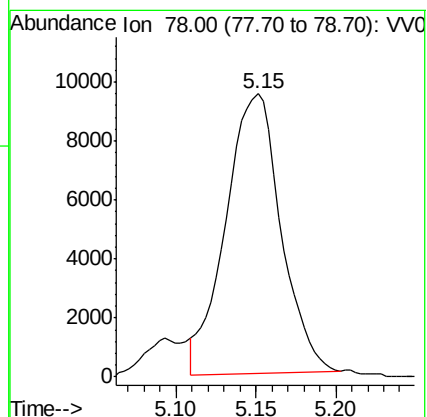
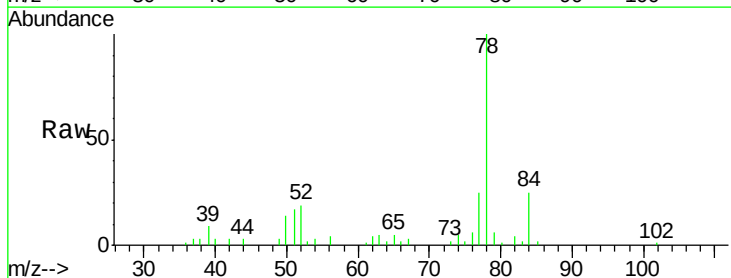
RT: 5.15 min Scan# 1263

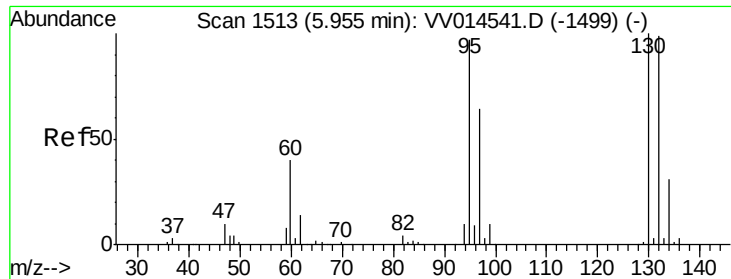
Delta R.T. 0.01 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Tgt Ion: 78 Resp: 22434





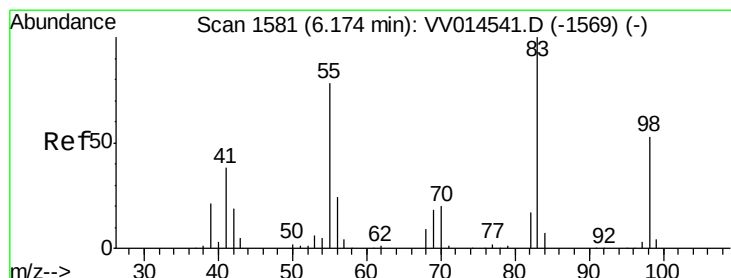
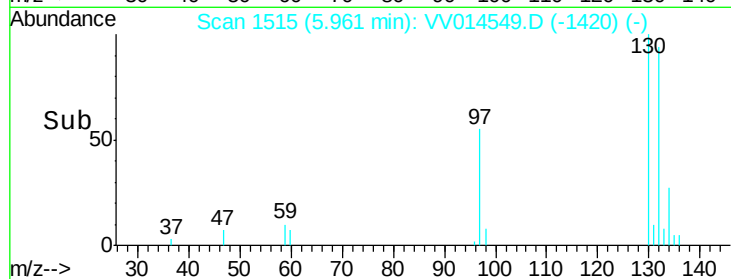
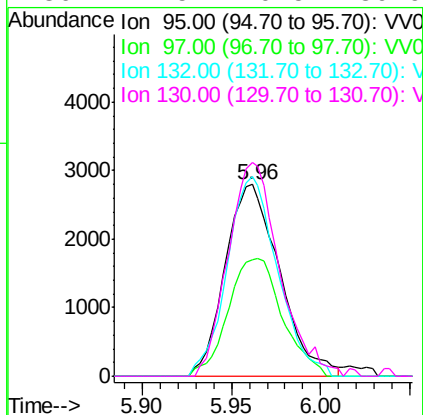
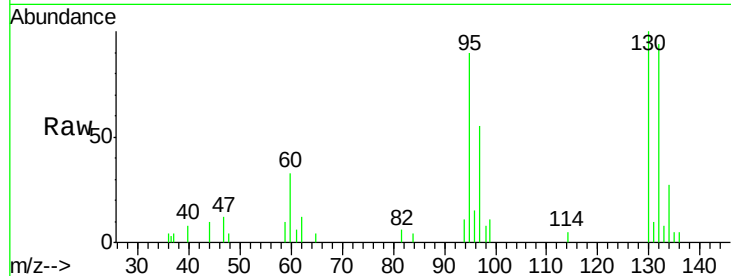
#34  
 Trichloroethene  
 Concen: 2.501 ug/L  
 RT: 5.96 min Scan# 1515  
 Delta R.T. 0.01 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 5944  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 60.9  | 45.1  | 83.7  |
| 132      | 104.3 | 67.7  | 125.7 |
| 130      | 111.5 | 70.5  | 130.9 |

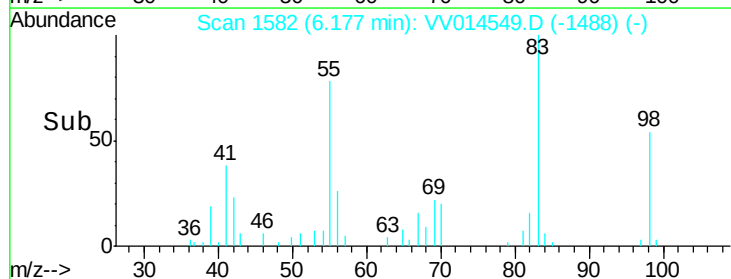
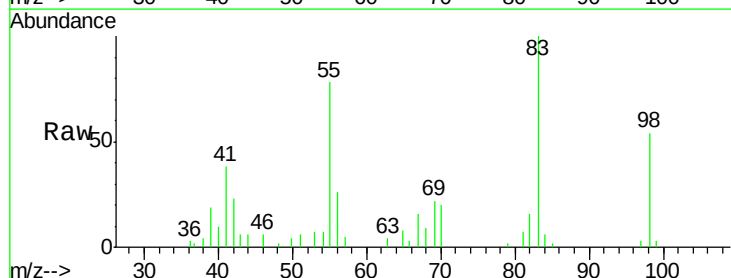
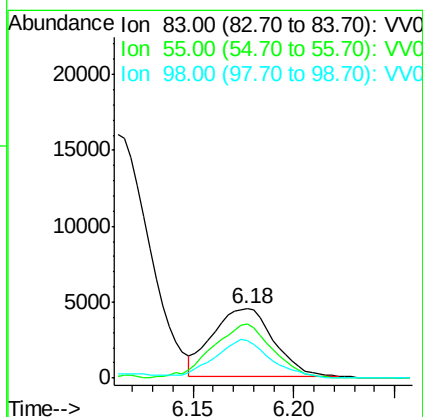
Manual Integrations  
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MMDadoda  
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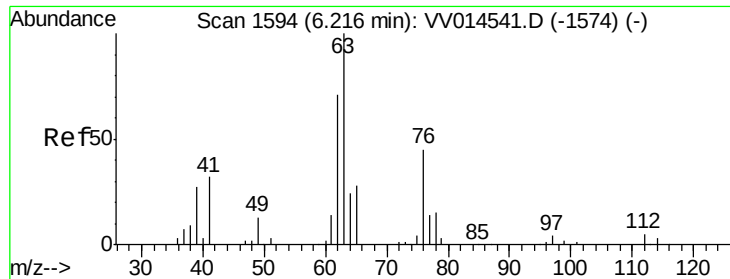


#35  
 Methylcyclohexane  
 Concen: 2.430 ug/L  
 RT: 6.18 min Scan# 1582  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 9439  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 77.9  | 60.7  | 91.1  |
| 98       | 51.8  | 39.4  | 59.0  |







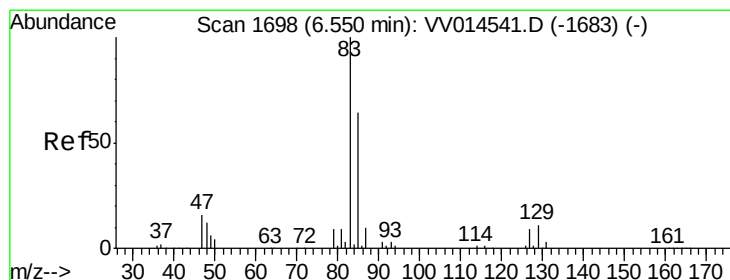
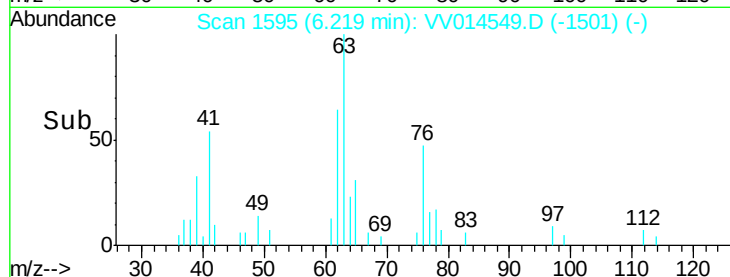
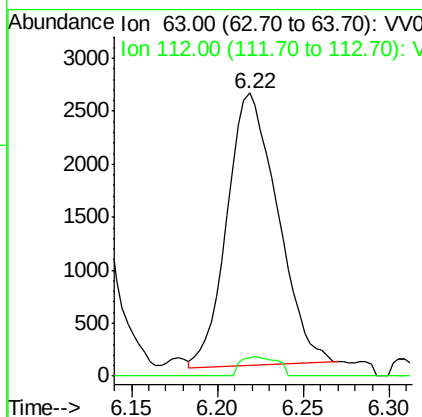
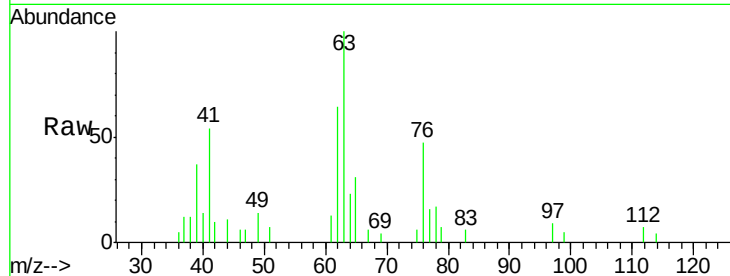
#37  
 1,2-Dichloropropane  
 Concen: 2.304 ug/L  
 RT: 6.22 min Scan# 1595  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

Tot Ion: 63 Resp: 5263  
 Ion Ratio Lower Upper  
 63 100  
 112 5.1 3.7 5.5

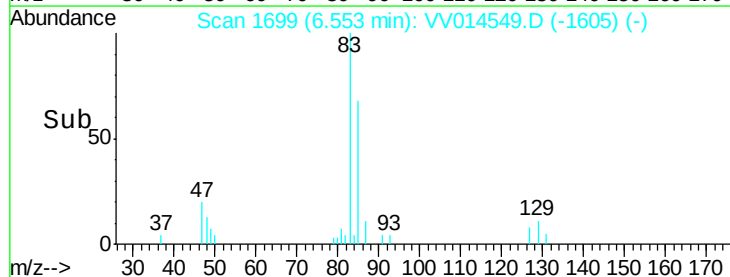
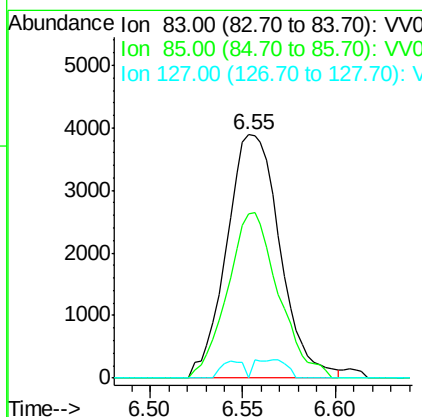
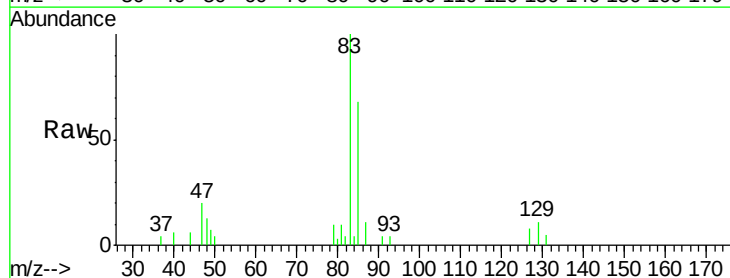
Manual Integrations  
 APPROVED

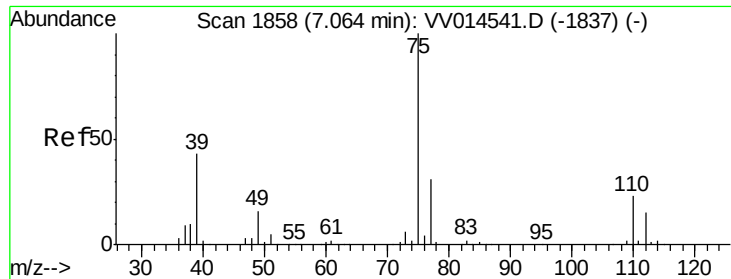
MMDadoda  
 2/12/2020 3:06:25 PM



#38  
 Bromodichloromethane  
 Concen: 2.535 ug/L  
 RT: 6.55 min Scan# 1699  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Tgt Ion: 83 Resp: 7772  
 Ion Ratio Lower Upper  
 83 100  
 85 67.7 44.4 82.4  
 127 0.0 6.7 10.1#





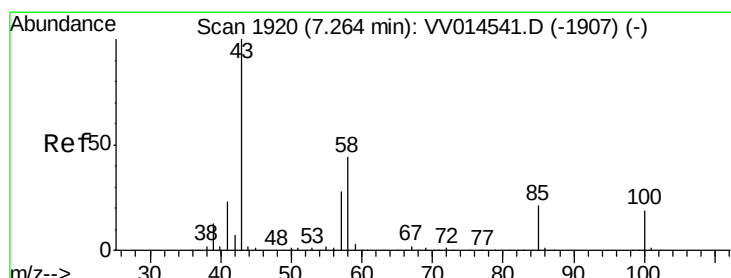
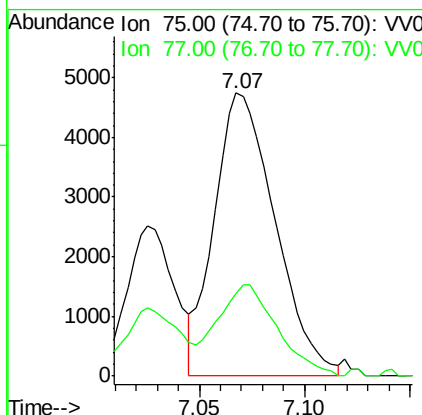
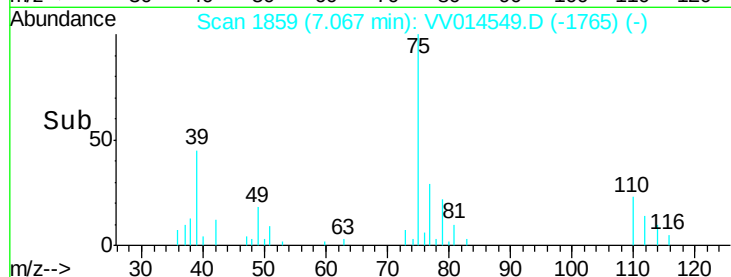
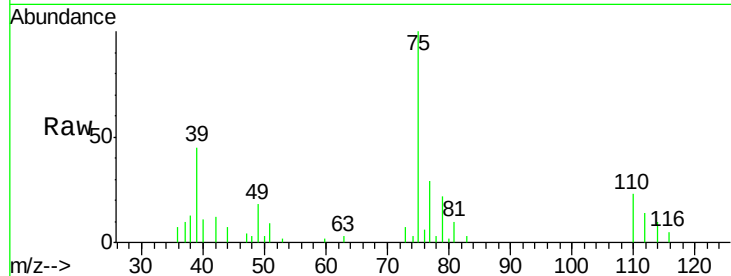
#39  
 cis-1,3-Dichloropropene  
 Concen: 2.493 ug/L  
 RT: 7.07 min Scan# 1859  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

Tot Ion: 75 Resp: 9500  
 Ion Ratio Lower Upper  
 75 100  
 77 29.3 22.7 42.1

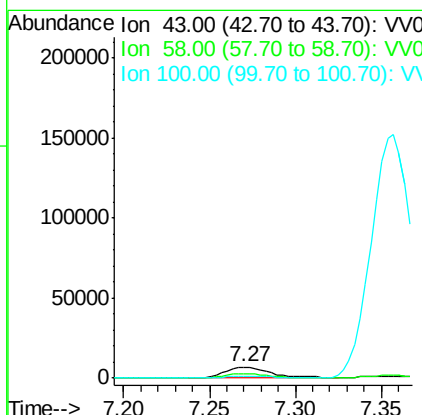
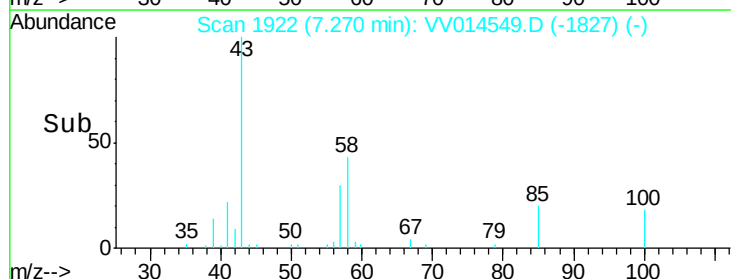
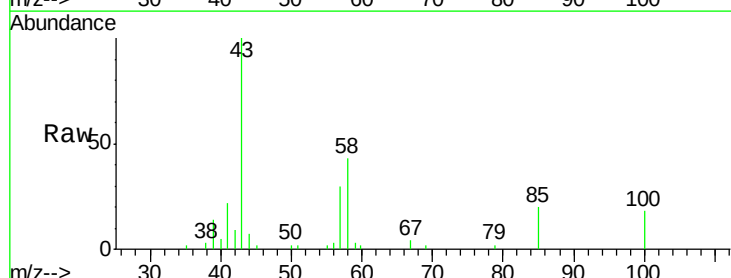
Manual Integrations  
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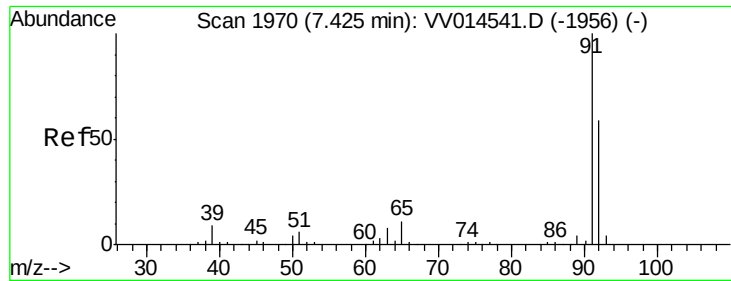
MMDadoda  
 2/12/2020 3:06:25 PM



#40  
 4-Methyl-2-pentanone  
 Concen: 4.390 ug/L  
 RT: 7.27 min Scan# 1922  
 Delta R.T. 0.01 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Tgt Ion: 43 Resp: 12959  
 Ion Ratio Lower Upper  
 43 100  
 58 41.4 33.2 49.8  
 100 17.8 13.9 20.9





#42

Toluene

Concen: 2.581 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampleId :

MDL05

Tot Ion: 91 Resp: 24815

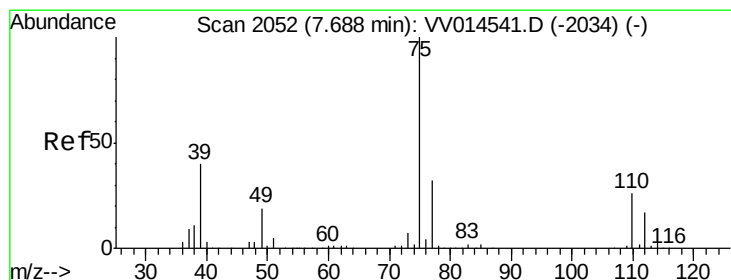
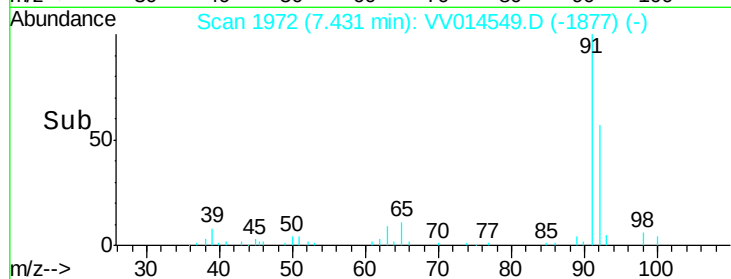
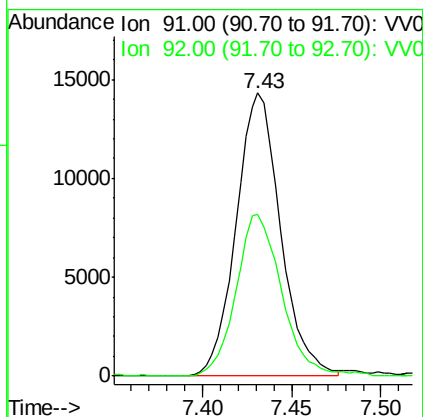
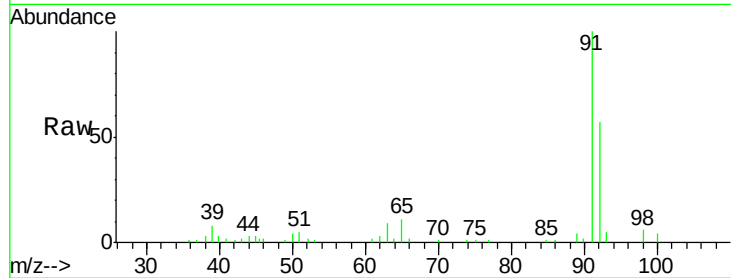
Ion Ratio Lower Upper

91 100

92 57.4 41.6 77.2

Manual Integrations  
APPROVED

MMDadoda  
2/12/2020 3:06:25 PM



#44

trans-1,3-Dichloropropene

Concen: 2.418 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VV014549.D

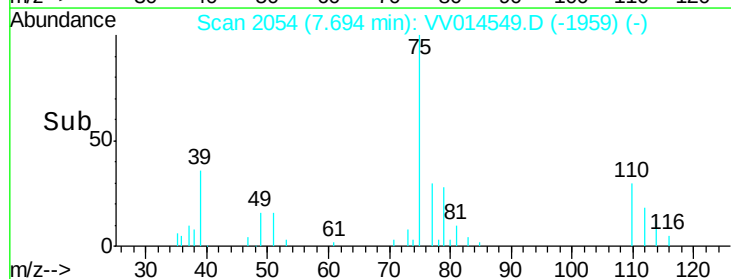
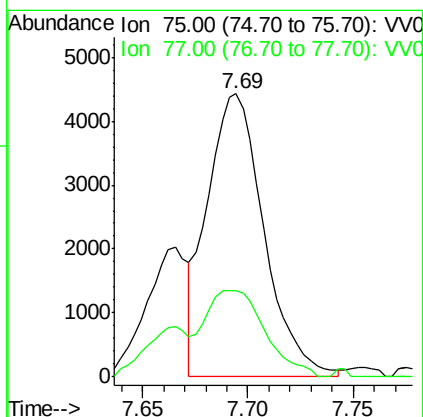
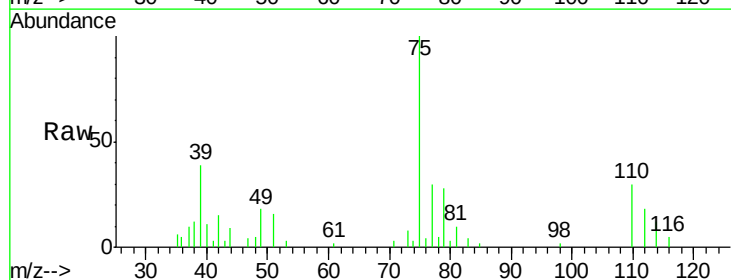
Acq: 10 Feb 2020 14:09

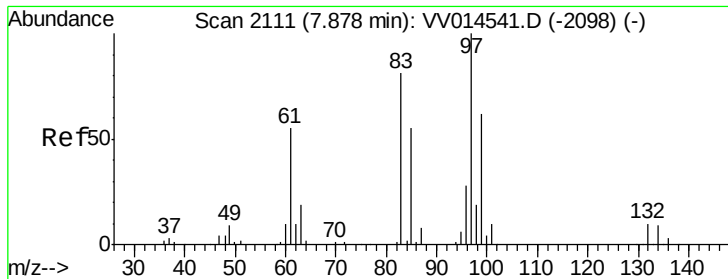
Tgt Ion: 75 Resp: 8260

Ion Ratio Lower Upper

75 100

77 30.2 22.2 41.2





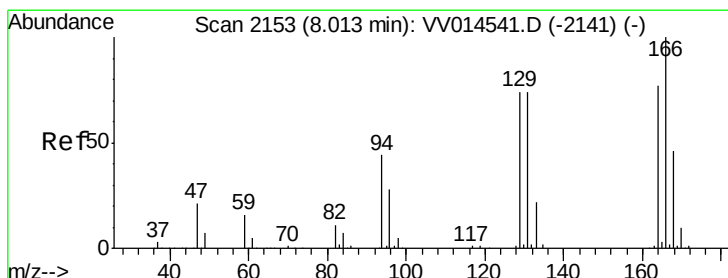
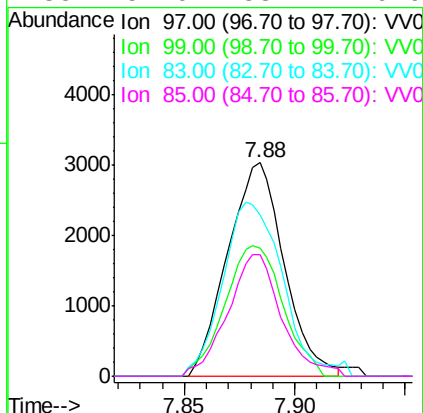
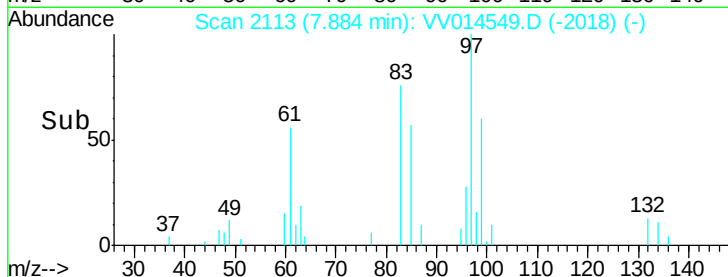
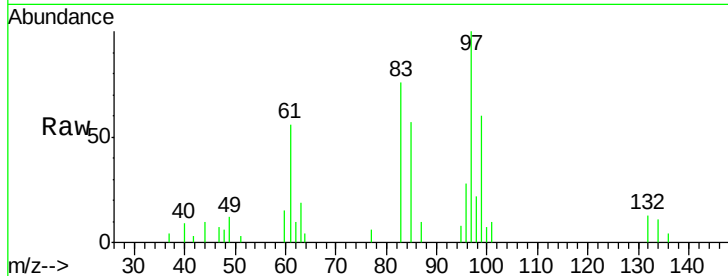
#45  
 1,1,2-Trichloroethane  
 Concen: 2.458 ug/L  
 RT: 7.88 min Scan# 2113  
 Delta R.T. 0.01 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 5386  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 59.9  | 44.5  | 82.7  |
| 83       | 75.5  | 60.1  | 111.5 |
| 85       | 57.0  | 38.1  | 70.9  |

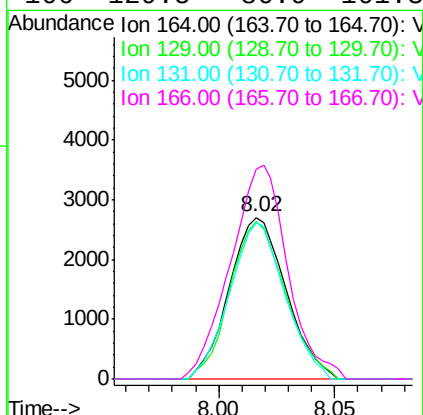
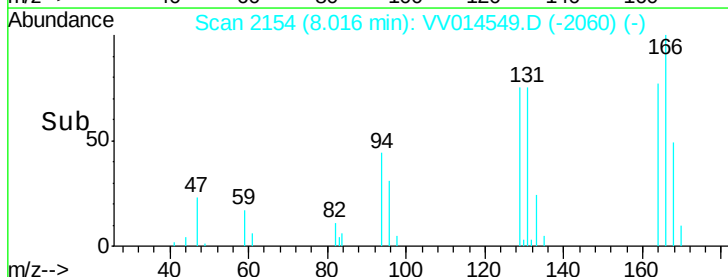
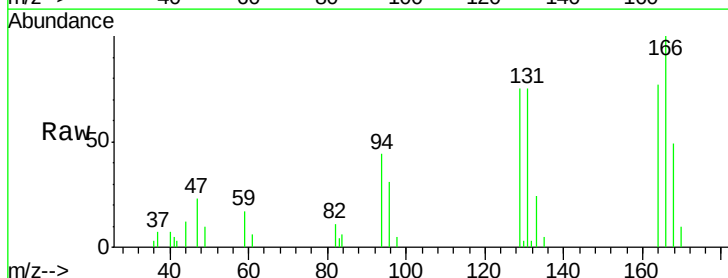
Manual Integrations  
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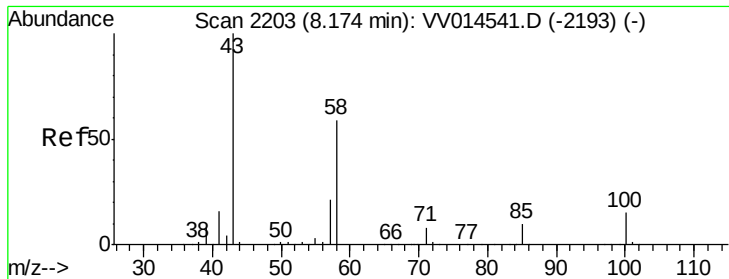
MMDadoda  
 2/12/2020 3:06:25 PM



#46  
 Tetrachloroethene  
 Concen: 2.547 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4618  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 97.4  | 68.0  | 126.4 |
| 131      | 96.5  | 63.4  | 117.8 |
| 166      | 129.5 | 86.9  | 161.3 |





#48

2-Hexanone

Concen: 5.269 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VV014549.D

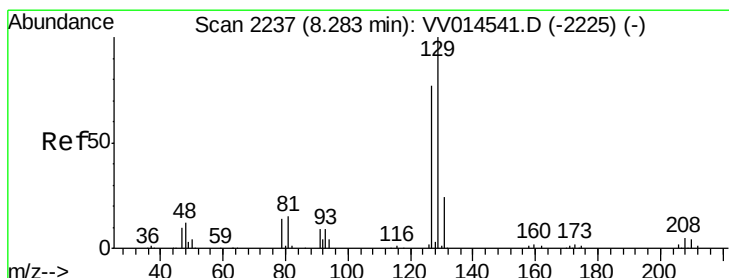
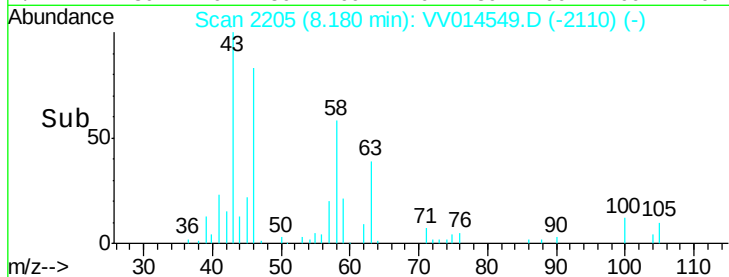
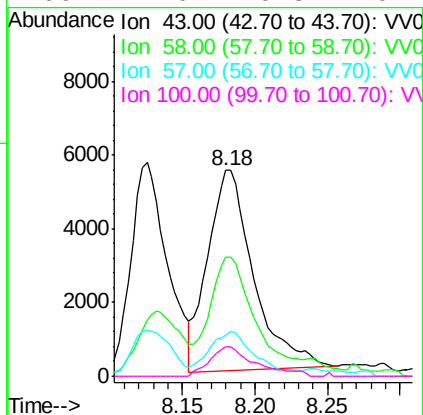
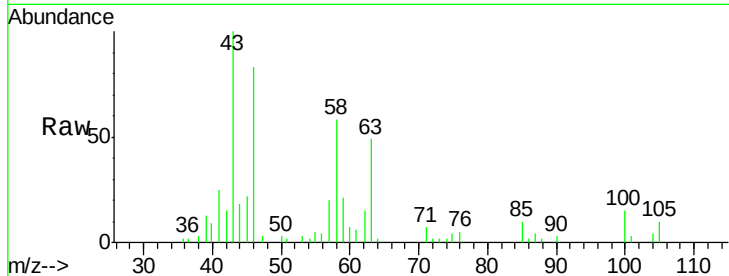
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 11972 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 46.3  | 45.5  | 68.3  |
| 57       | 22.5  | 15.8  | 23.6  |
| 100      | 14.6  | 10.8  | 16.2  |

Manual Integrations  
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MMDadoda  
2/12/2020 3:06:25 PM



#49

Dibromochloromethane

Concen: 2.377 ug/L

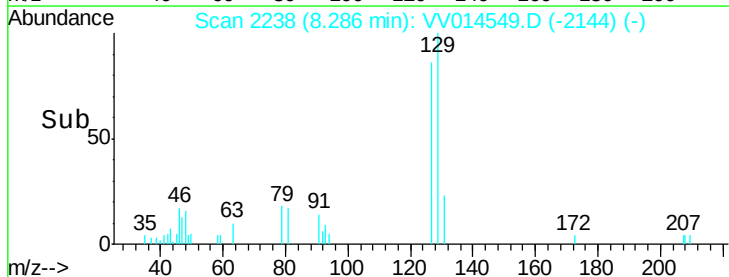
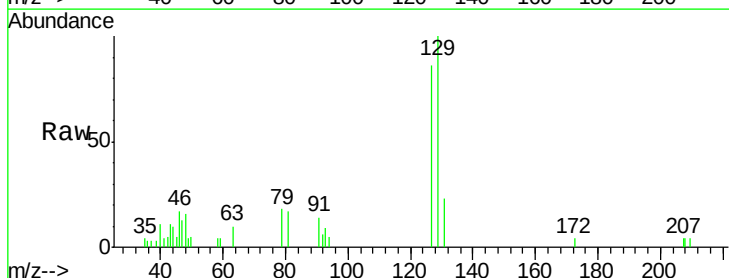
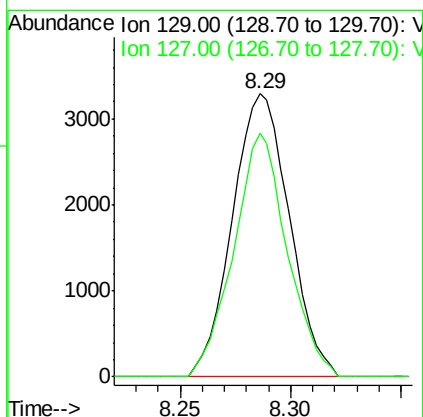
RT: 8.29 min Scan# 2238

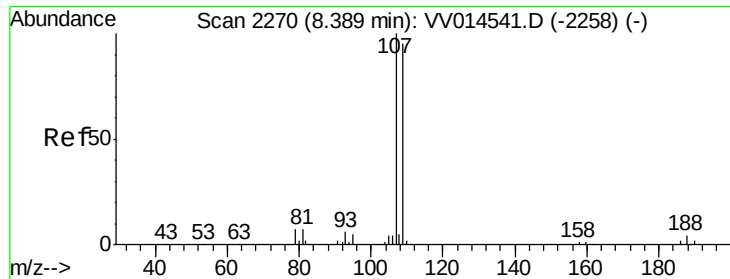
Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 5881  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 86.0  | 54.1  | 100.5 |





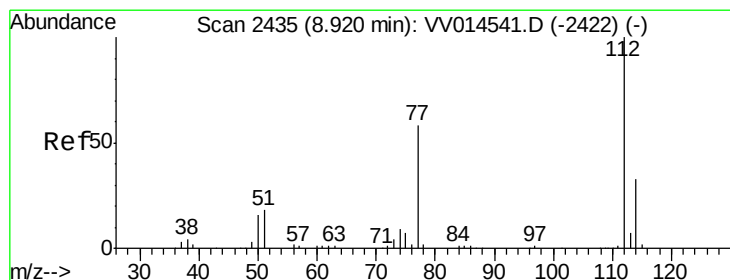
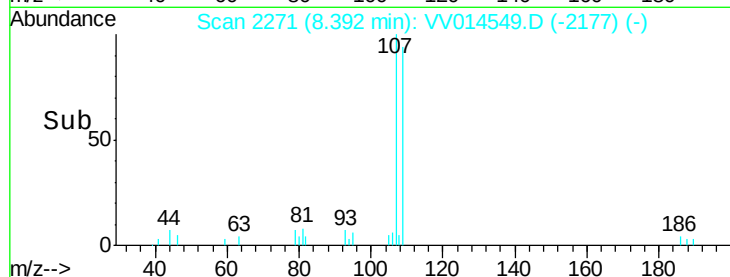
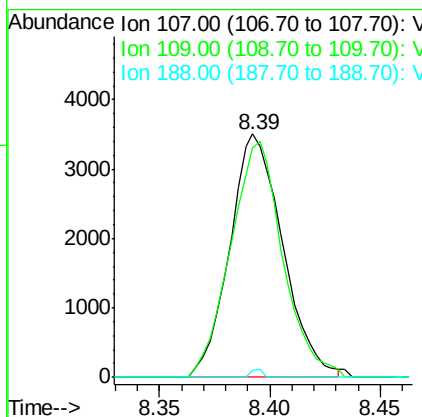
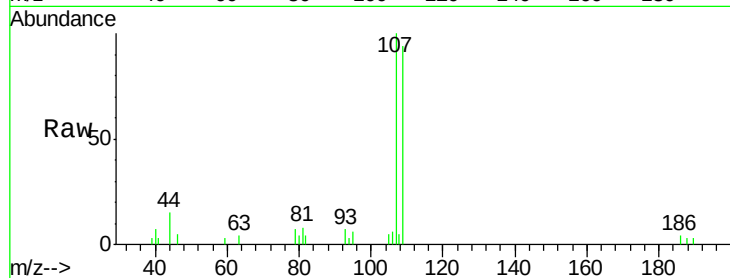
#50  
1,2-Dibromoethane  
Concen: 2.474 ug/L  
RT: 8.39 min Scan# 2271  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.0  | 65.2  | 121.2 |
| 188     | 2.9   | 2.6   | 4.0   |

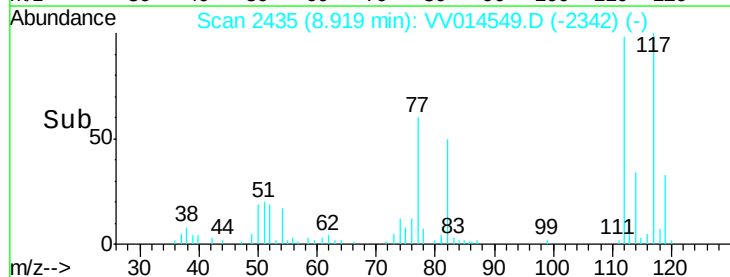
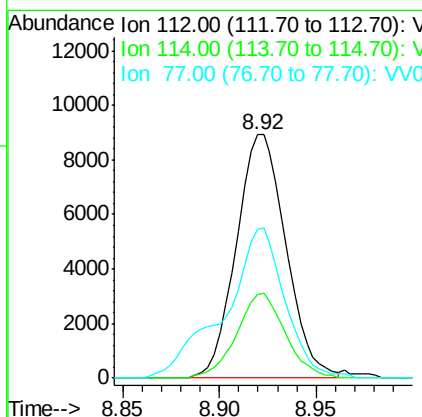
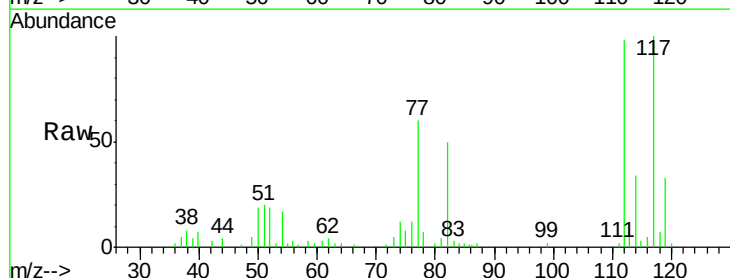
Manual Integrations  
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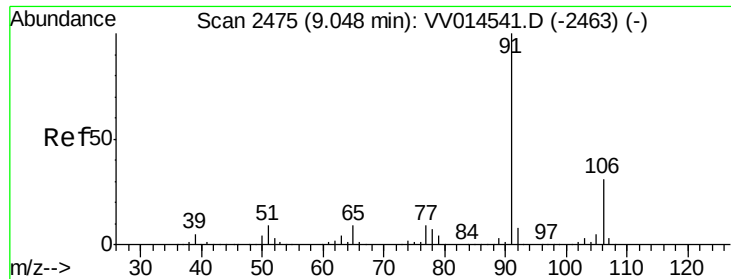
MMDadoda  
2/12/2020 3:06:25 PM



#51  
Chlorobenzene  
Concen: 2.538 ug/L  
RT: 8.92 min Scan# 2435  
Delta R.T. -0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 34.3  | 22.3  | 41.5  |
| 77      | 61.2  | 47.3  | 70.9  |





#52

Ethylbenzene

Concen: 2.493 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA\_V

ClientSampled :

MDL05

Tot Ion: 91 Resp: 26882

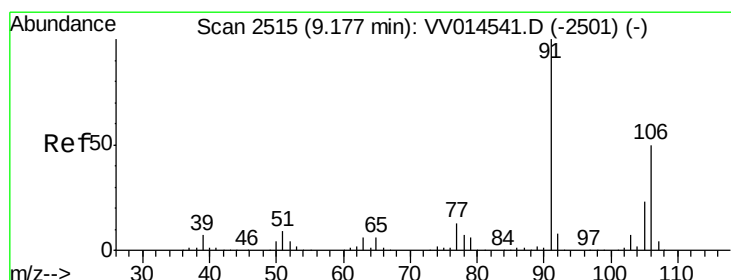
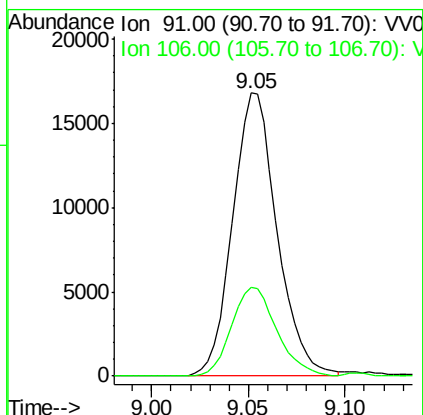
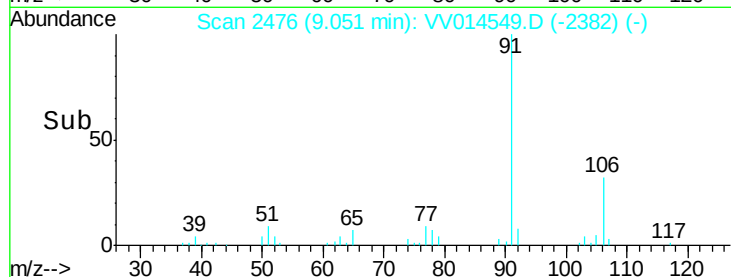
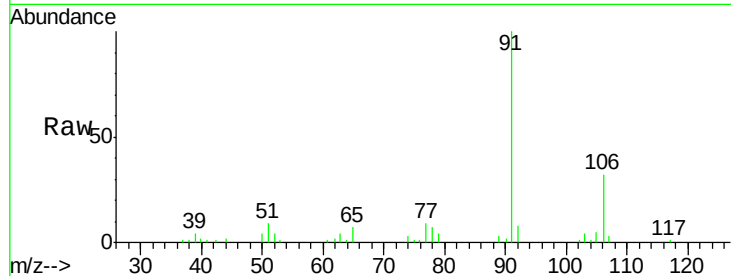
Ion Ratio Lower Upper

91 100

106 31.6 21.5 39.9

Manual Integrations  
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MMDadoda  
2/12/2020 3:06:25 PM



#53

m,p-Xylene

Concen: 2.470 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014549.D

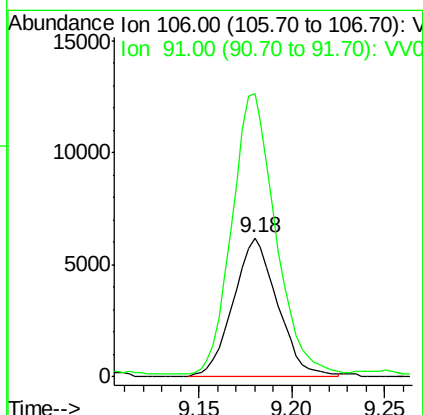
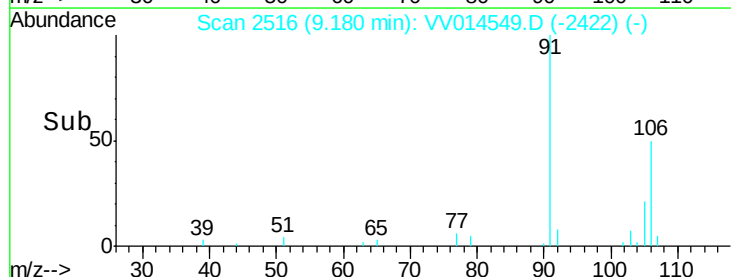
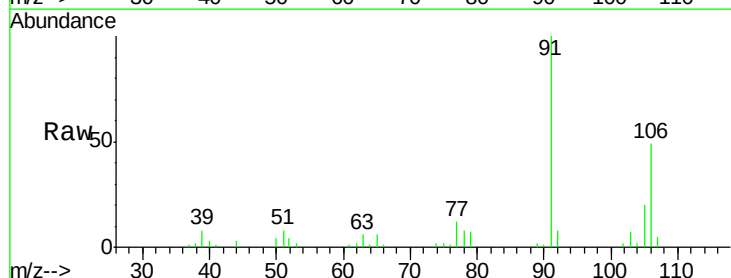
Acq: 10 Feb 2020 14:09

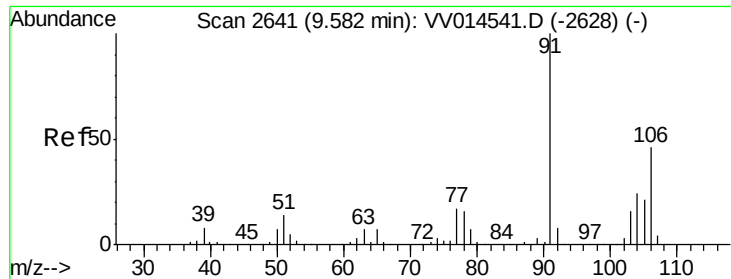
Tgt Ion: 106 Resp: 10260

Ion Ratio Lower Upper

106 100

91 203.7 141.4 262.6





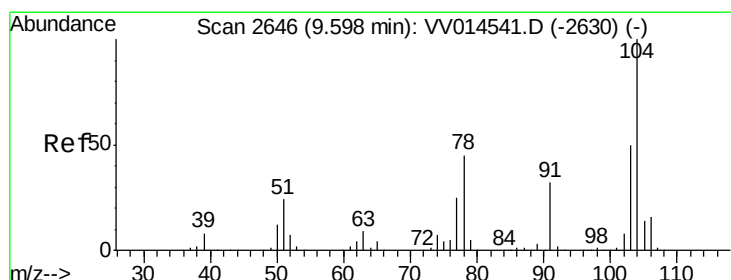
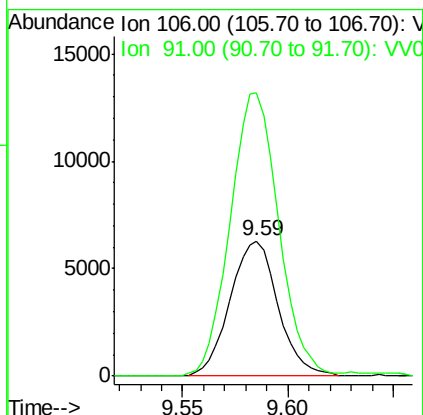
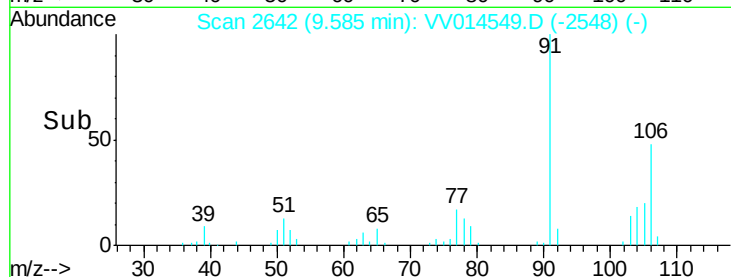
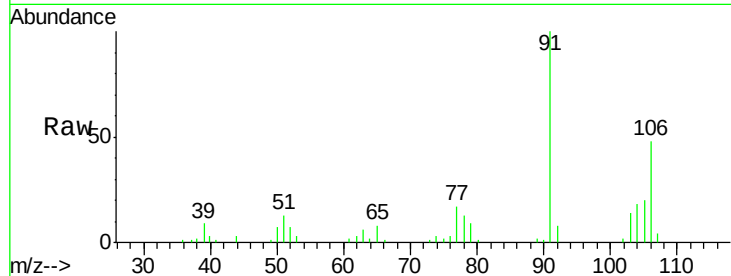
#54  
o-Xylene  
Concen: 2.505 ug/L  
RT: 9.59 min Scan# 2642  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

Tot Ion:106 Resp: 9956  
Ion Ratio Lower Upper  
106 100  
91 209.8 149.4 277.4

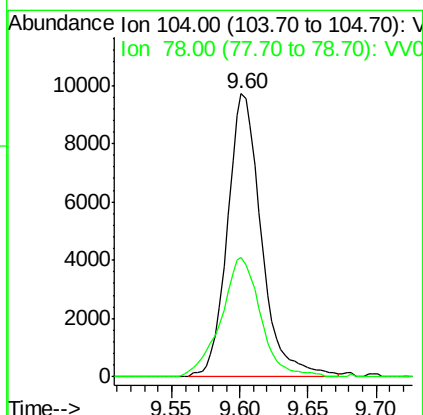
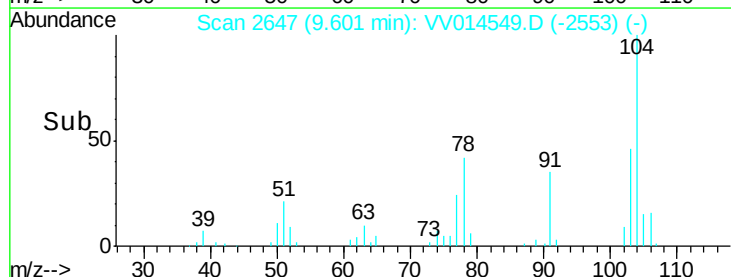
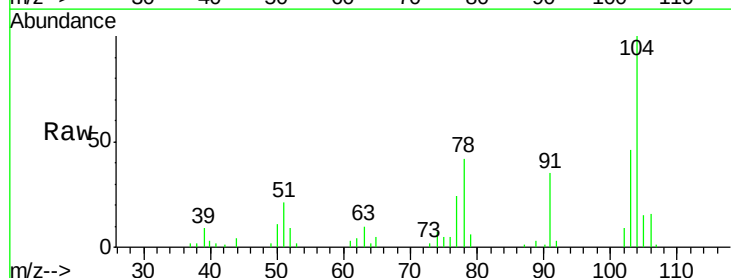
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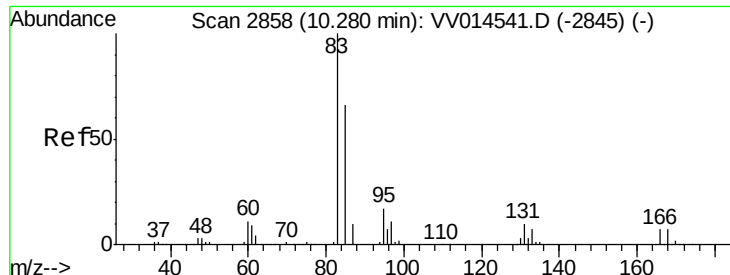


#55  
Styrene  
Concen: 2.479 ug/L  
RT: 9.60 min Scan# 2647  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Tgt Ion:104 Resp: 16844  
Ion Ratio Lower Upper  
104 100  
78 42.1 31.6 58.8







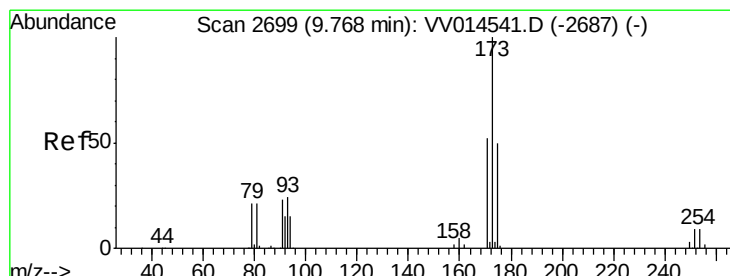
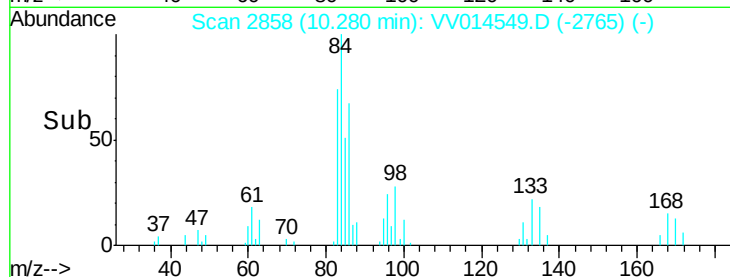
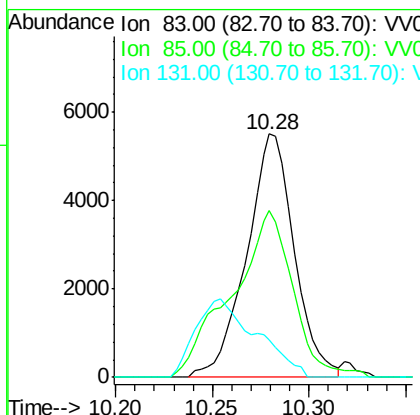
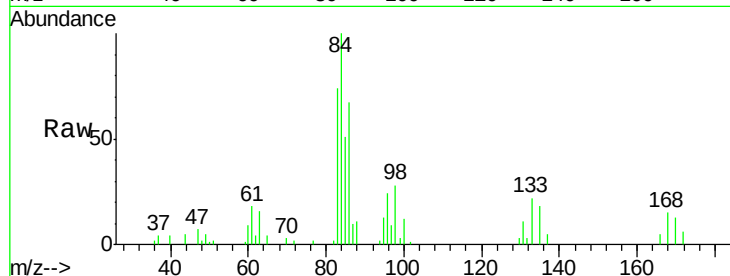
#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 2.746 ug/L  
 RT: 10.28 min Scan# 2858  
 Delta R.T. -0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

| Tot Ion | 83    | Resp  | 9432  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 83      | 100   |       |       |
| 85      | 68.5  | 45.2  | 84.0  |
| 131     | 15.3  | 7.8   | 11.8# |

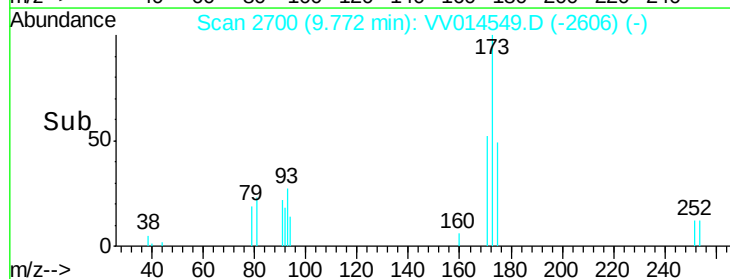
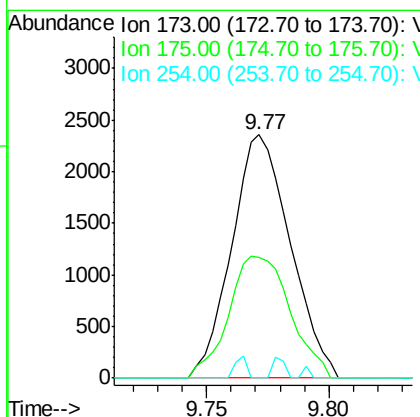
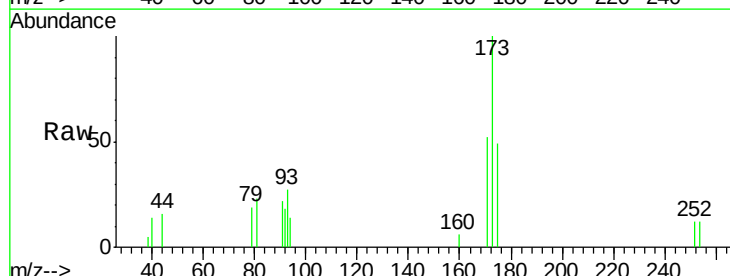
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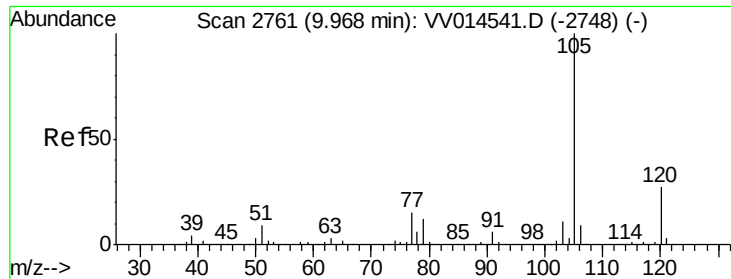
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#59  
 Bromoform  
 Concen: 2.300 ug/L  
 RT: 9.77 min Scan# 2700  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

| Tgt Ion | 173   | Resp  | 3929  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 173     | 100   |       |       |
| 175     | 52.3  | 37.8  | 56.8  |
| 254     | 1.8   | 7.0   | 10.6# |





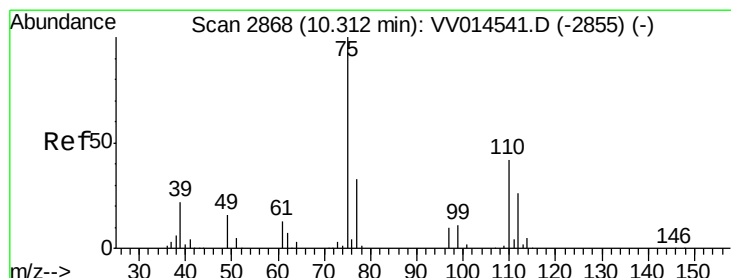
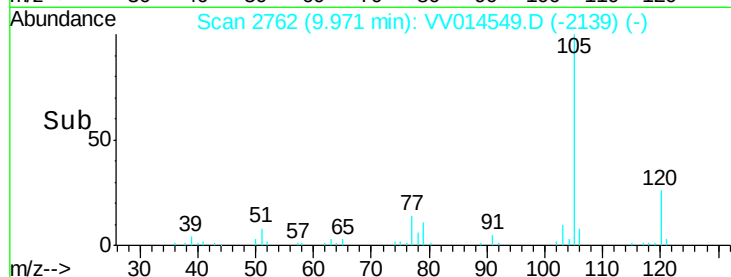
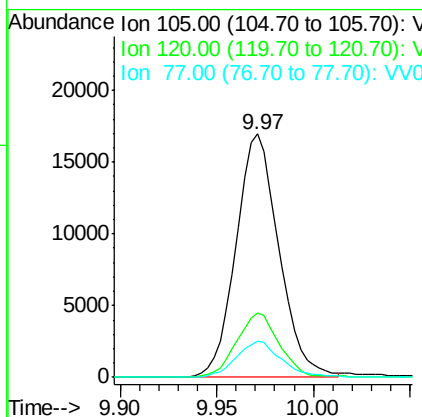
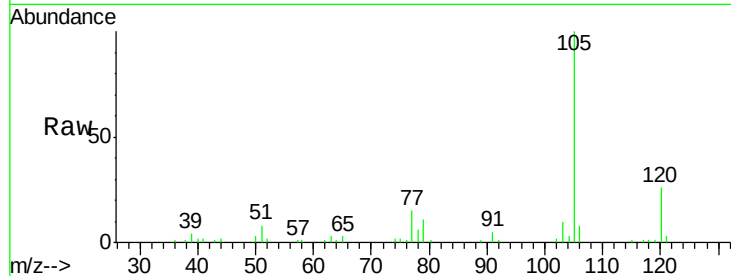
#60  
Isopropylbenzene  
Concen: 2.530 ug/L  
RT: 9.97 min Scan# 2762  
Delta R.T. 0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.1  | 21.5  | 32.3  |
| 77      | 15.4  | 12.2  | 18.4  |

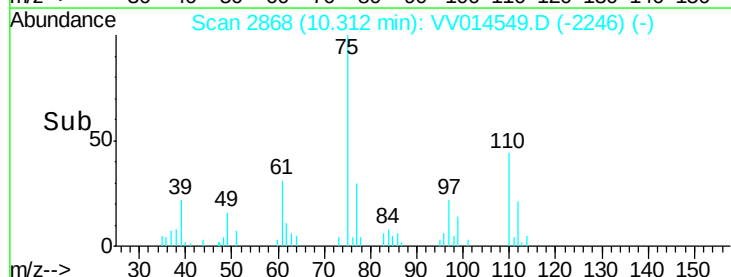
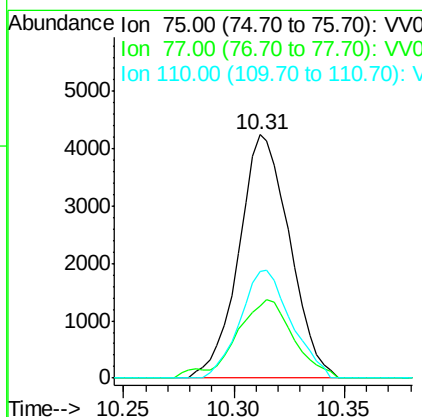
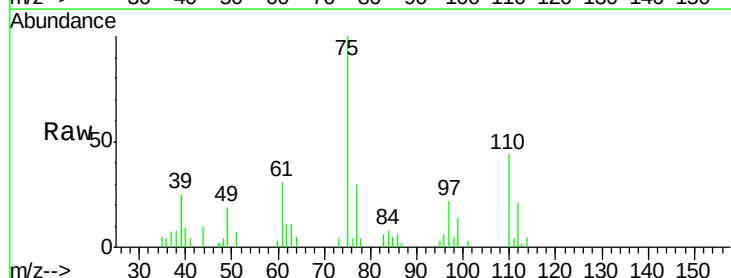
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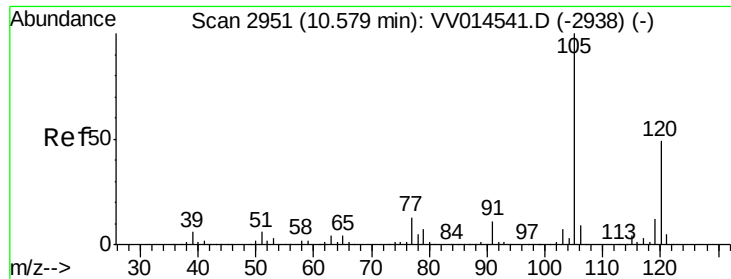
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#61  
1,2,3-Trichloropropane  
Concen: 2.505 ug/L  
RT: 10.31 min Scan# 2868  
Delta R.T. -0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 34.8  | 25.8  | 38.8  |
| 110     | 44.3  | 32.4  | 48.6  |





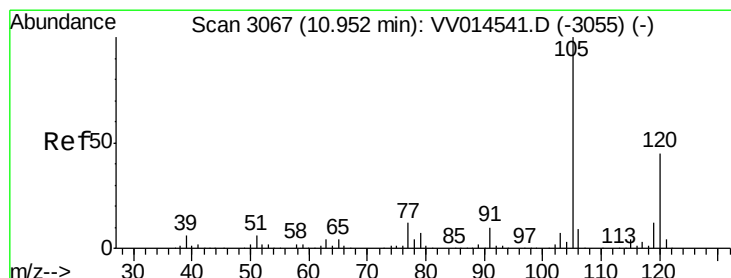
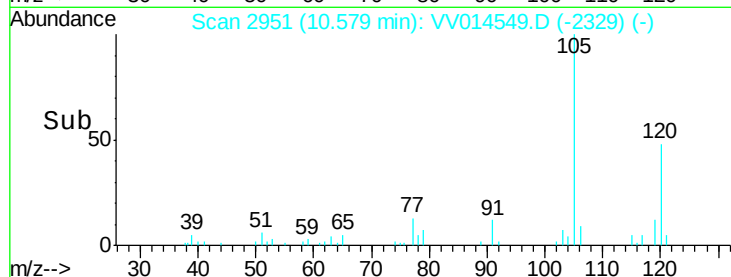
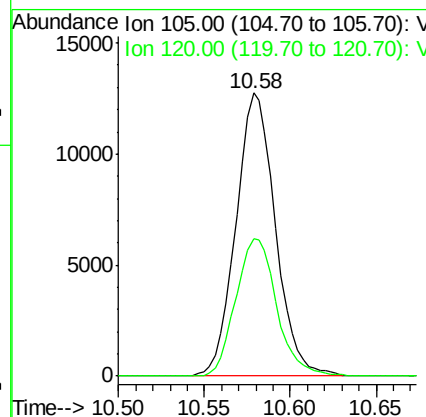
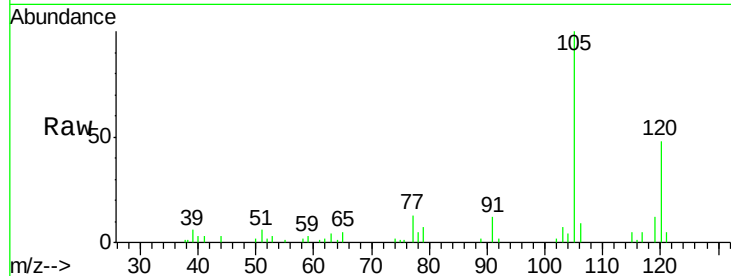
#62  
 1,3,5-Trimethylbenzene  
 Concen: 2.293 ug/L  
 RT: 10.58 min Scan# 2951  
 Delta R.T. -0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

Tot Ion:105 Resp: 20327  
 Ion Ratio Lower Upper  
 105 100  
 120 50.2 39.0 58.6

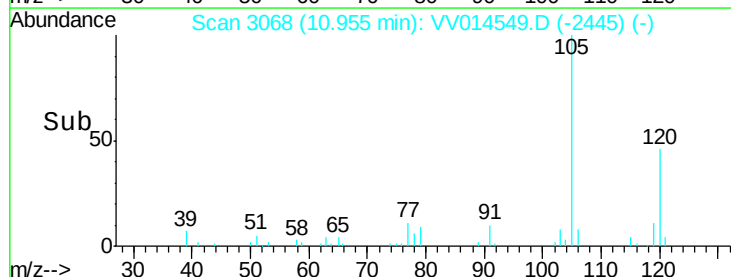
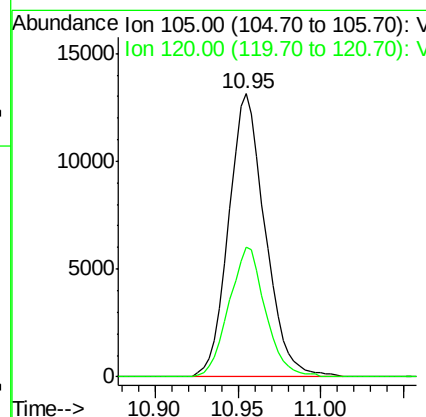
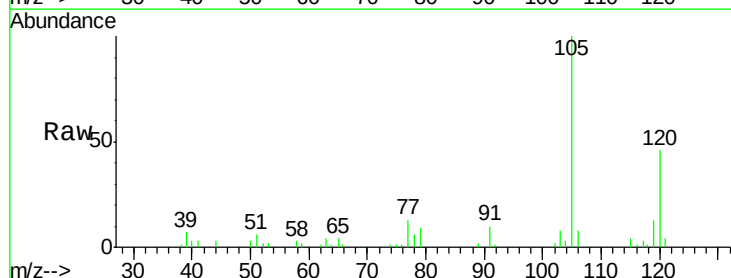
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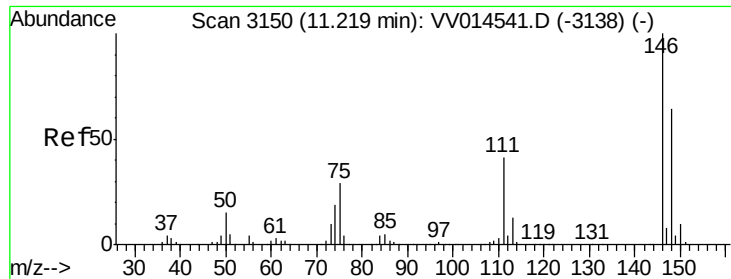
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#63  
 1,2,4-Trimethylbenzene  
 Concen: 2.303 ug/L  
 RT: 10.95 min Scan# 3068  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Tgt Ion:105 Resp: 20130  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 36.2 54.4





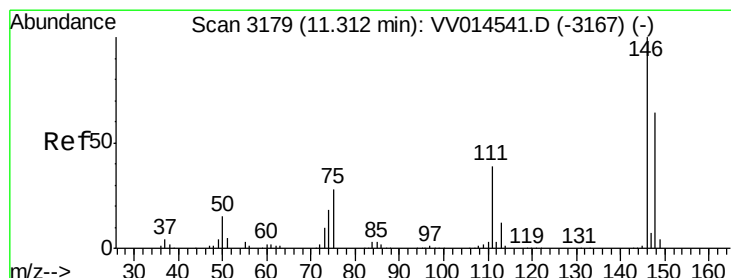
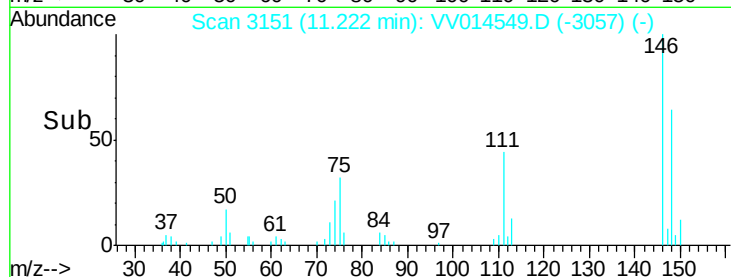
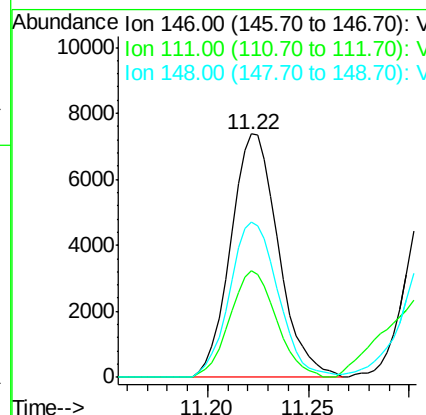
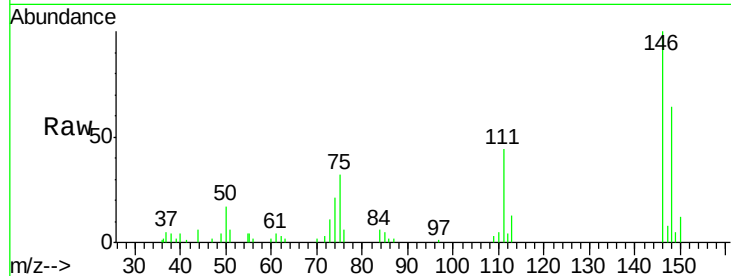
#64  
 1,3-Dichlorobenzene  
 Concen: 2.496 ug/L  
 RT: 11.22 min Scan# 3151  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.7  | 28.9  | 53.7  |
| 148     | 63.6  | 44.4  | 82.5  |

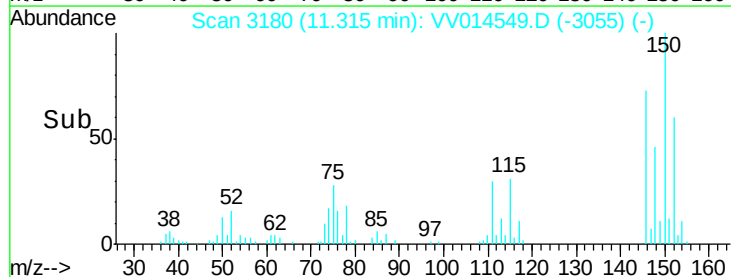
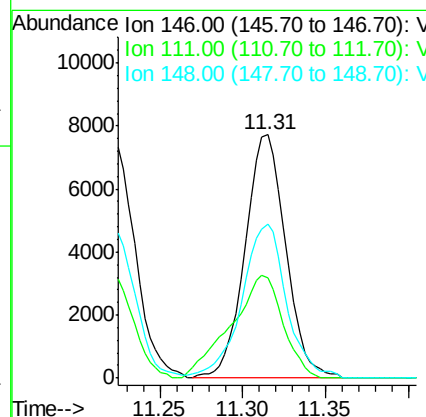
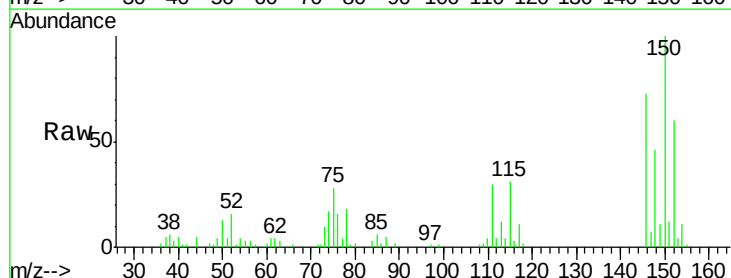
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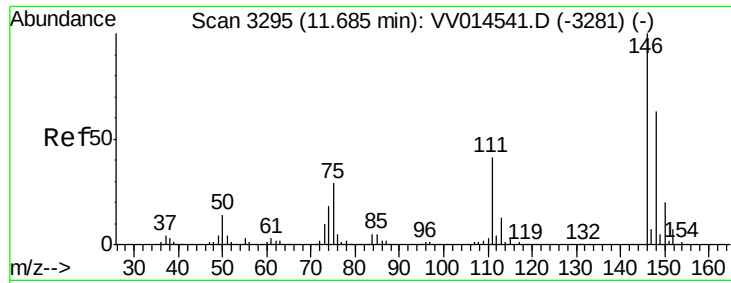
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#65  
 1,4-Dichlorobenzene  
 Concen: 2.618 ug/L  
 RT: 11.31 min Scan# 3180  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 28.1  | 52.3  |
| 148     | 63.3  | 44.4  | 82.4  |





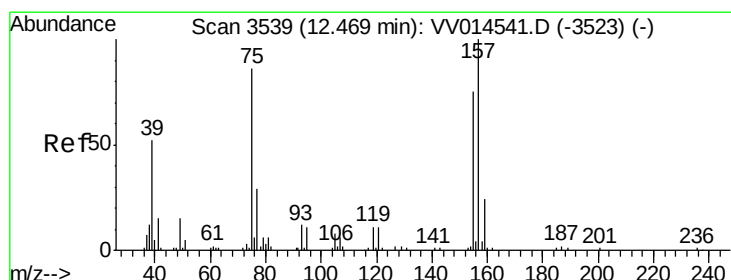
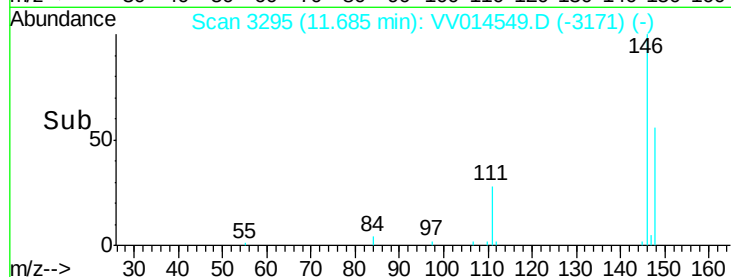
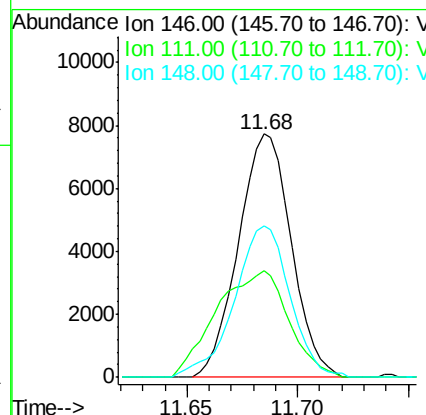
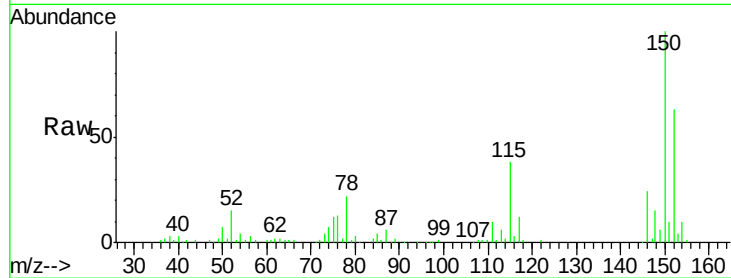
#67  
 1,2-Dichlorobenzene  
 Concen: 2.721 ug/L  
 RT: 11.68 min Scan# 3295  
 Delta R.T. -0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.7  | 34.6  | 51.8  |
| 148     | 62.4  | 50.2  | 75.4  |

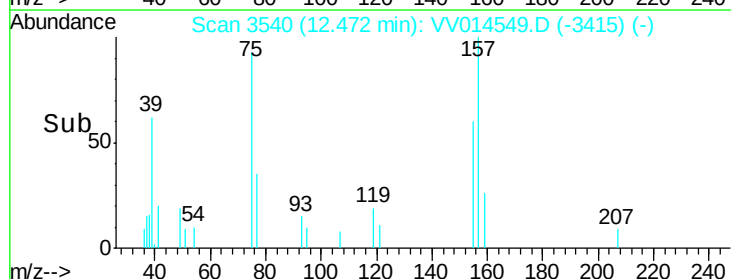
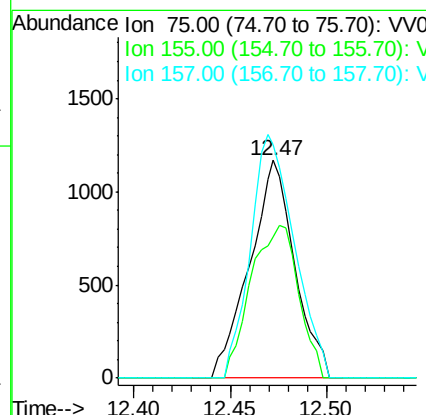
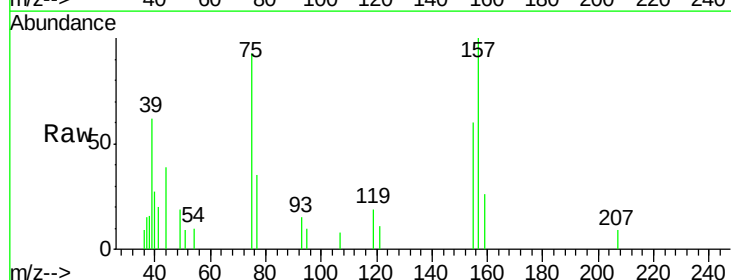
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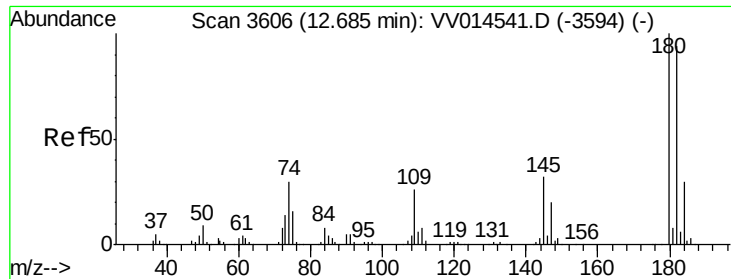
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#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.495 ug/L  
 RT: 12.47 min Scan# 3540  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 64.7  | 68.3  | 102.5# |
| 157     | 107.4 | 87.1  | 130.7  |





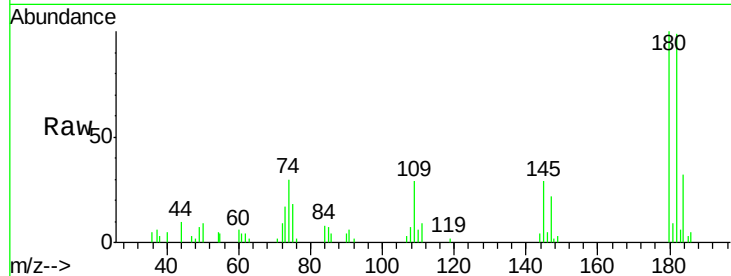
#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.421 ug/L  
 RT: 12.69 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL05

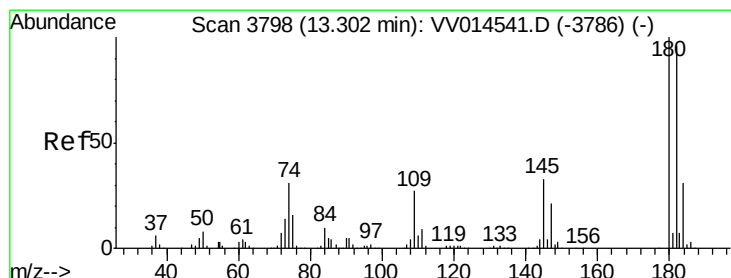
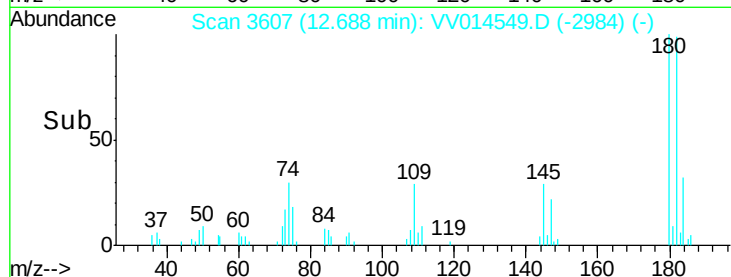
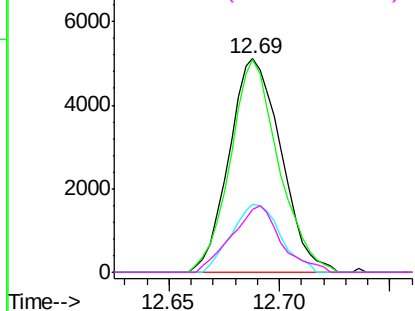
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 180   | Resp: | 8330  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.6  | 75.0  | 112.4 |
| 184      | 30.1  | 24.2  | 36.2  |
| 145      | 29.6  | 24.3  | 36.5  |

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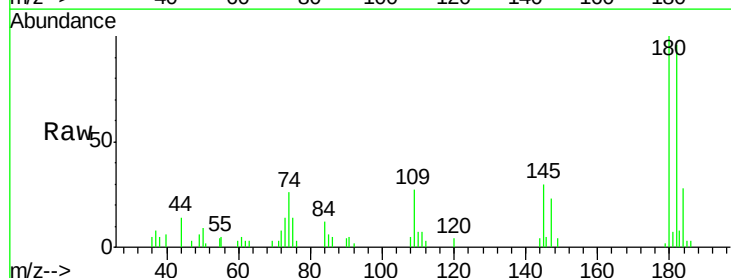


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

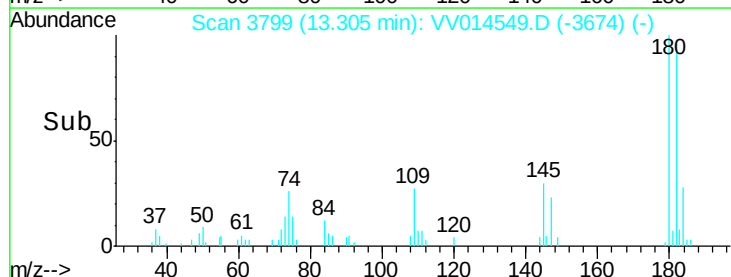
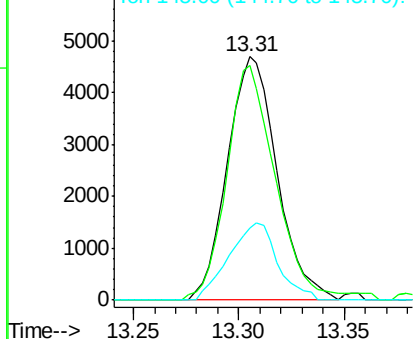


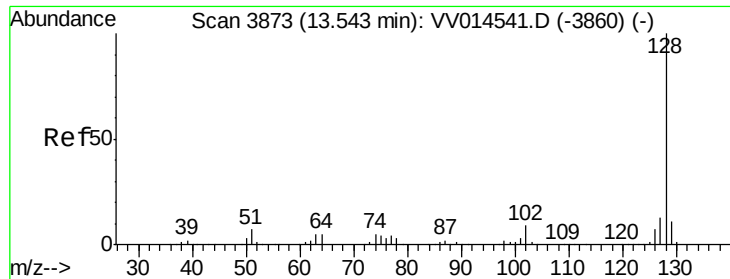
#70  
 1,2,4-trichlorobenzene  
 Concen: 2.423 ug/L  
 RT: 13.31 min Scan# 3799  
 Delta R.T. 0.00 min  
 Lab File: VV014549.D  
 Acq: 10 Feb 2020 14:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 7656  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 94.2  | 76.0  | 114.0 |
| 145      | 31.1  | 25.3  | 37.9  |



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





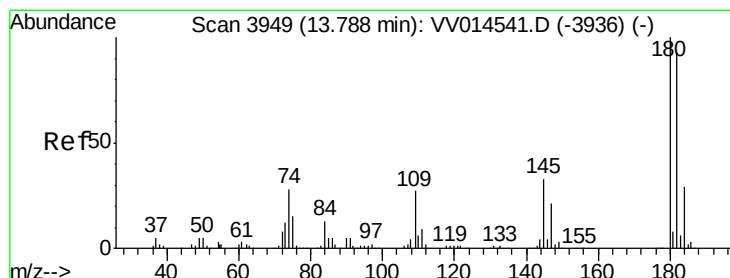
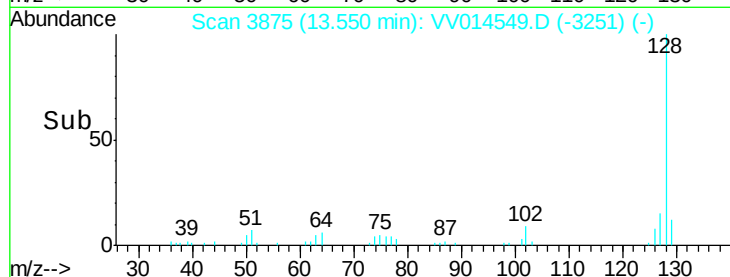
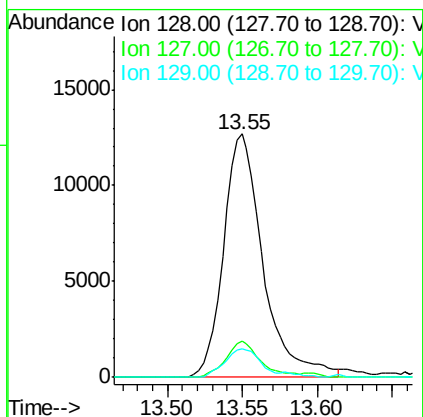
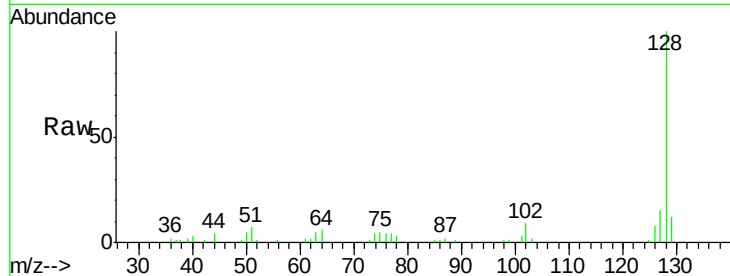
#71  
Naphthalene  
Concen: 2.244 ug/L  
RT: 13.55 min Scan# 3875  
Delta R.T. 0.01 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.9  | 10.3  | 15.5  |
| 129     | 10.6  | 8.7   | 13.1  |

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#72  
1,2,3-Trichlorobenzene  
Concen: 2.220 ug/L  
RT: 13.79 min Scan# 3949  
Delta R.T. -0.00 min  
Lab File: VV014549.D  
Acq: 10 Feb 2020 14:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.0  | 75.2  | 112.8 |
| 145     | 35.7  | 27.1  | 40.7  |

