

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\  
 Data File : VV016248.D  
 Acq On : 27 May 2020 23:46  
 Operator : SY/MD  
 Sample : L2766-05  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE4Y8

Manual Integrations  
 APPROVED

MMDadoda  
 5/29/2020 11:55:13 AM

Quant Time: May 28 09:11:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu May 28 06:30:54 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 96615    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.88  | 117  | 95498    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 49652    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 23404    | 3.77     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.40% |
| 7) Chloroethane-d5             | 1.58   | 69    | 23527    | 4.32     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 35219    | 3.02     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.40% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 56292m   | 36.57    | ug/L | 0.04   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 73.14% |
| 24) Chloroform-d               | 4.38   | 84    | 52862    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.60% |
| 26) 1,2-Dichloroethane-d4      | 5.07   | 65    | 29805    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.20% |
| 32) Benzene-d6                 | 5.08   | 84    | 107829   | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 33648    | 4.60     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00% |
| 41) Toluene-d8                 | 7.35   | 98    | 103459   | 4.59     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80% |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 11976    | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.80% |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 56904    | 45.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.96% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 26714    | 4.94     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.80% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 39223    | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.60% |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response  | Conc     | Units | Ovalue |
|----------------------------|-------|------|-----------|----------|-------|--------|
| 8) Chloroethane            | 1.60  | 64   | 211827    | 44.808   | ug/L  | 97     |
| 13) Acetone                | 2.25  | 43   | 24477m    | 25.691   | ug/L  |        |
| 19) 1,1-Dichloroethane     | 3.21  | 63   | 33377     | 2.818    | ug/L  | 97     |
| 21) 2-Butanone             | 4.07  | 43   | 19579     | 11.552   | ug/L  | 84     |
| 22) cis-1,2-Dichloroethene | 3.94  | 96   | 4076      | 0.553    | ug/L  | 85     |
| 29) 1,1,1-Trichloroethane  | 4.63  | 97   | 2084      | 0.184    | ug/L  | 92     |
| 30) Cyclohexane            | 4.69  | 56   | 47958     | 3.948    | ug/L  | 99     |
| 33) Benzene                | 5.13  | 78   | 25785664m | 938.306  | ug/L  |        |
| 35) Methylcyclohexane      | 6.15  | 83   | 60204     | 4.986    | ug/L  | 98     |
| 40) 4-Methyl-2-pentanone   | 7.28  | 43   | 115155    | 27.461   | ug/L  | 98     |
| 42) Toluene                | 7.42  | 91   | 31658925m | 1056.367 | ug/L  |        |
| 53) Chlorobenzene          | 8.91  | 112  | 2330991   | 125.872  | ug/L  | 98     |
| 54) Ethylbenzene           | 9.04  | 91   | 9074125   | 271.632  | ug/L  | 95     |
| 55) m,p-xylene             | 9.17  | 106  | 7329680   | 585.139  | ug/L  | 85     |
| 56) o-xylene               | 9.57  | 106  | 2797992   | 234.392  | ug/L  | 93     |
| 58) Isopropylbenzene       | 9.95  | 105  | 413895    | 12.658   | ug/L  | 99     |
| 63) 1,3-Dichlorobenzene    | 11.21 | 146  | 18982     | 1.253    | ug/L  | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\  
Data File : VV016248.D  
Acq On : 27 May 2020 23:46  
Operator : SY/MD  
Sample : L2766-05  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Y8

Manual Integrations  
APPROVED

MMDadoda  
5/29/2020 11:55:13 AM

Quant Time: May 28 09:11:09 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu May 28 06:30:54 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| 64) 1,4-Dichlorobenzene | 11.30 | 146  | 141993   | 9.222  | ug/L  | 98       |
| 66) 1,2-Dichlorobenzene | 11.67 | 146  | 194178   | 14.177 | ug/L  | 99       |

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

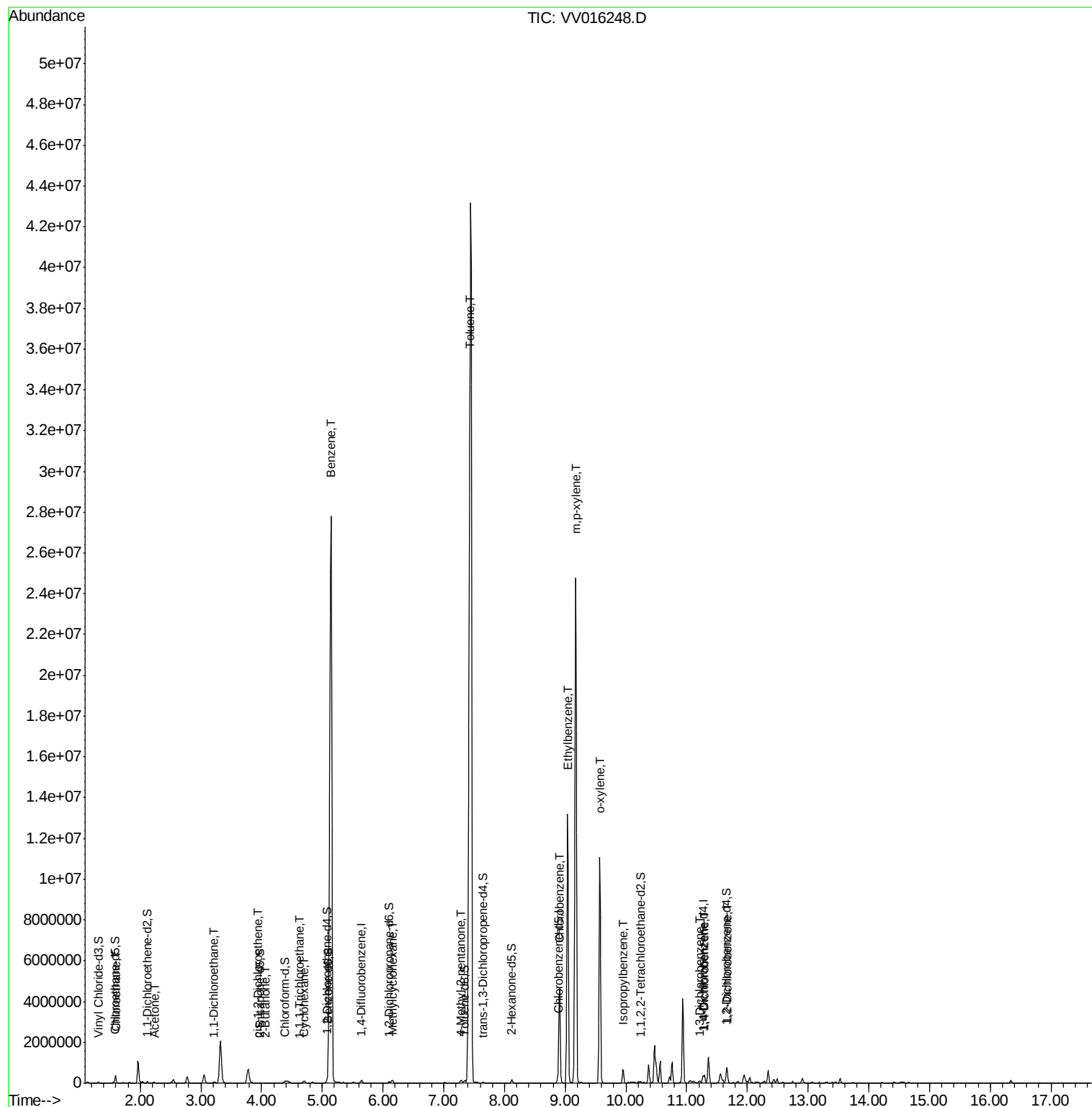
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Data File : VV016248.D  
Acq On : 27 May 2020 23:46  
Operator : SY/MD  
Sample : L2766-05  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 36 Sample Multiplier: 1

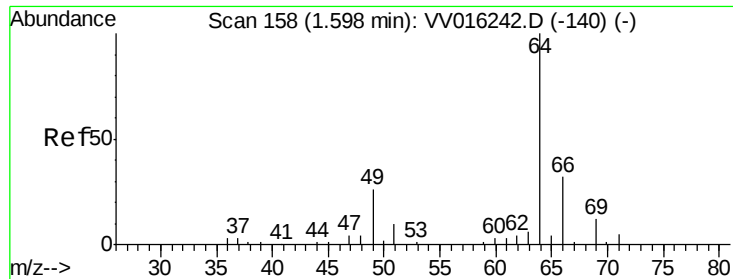
Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Y8

Manual Integrations  
APPROVED

MMDadoda  
5/29/2020 11:55:13 AM

Quant Time: May 28 09:11:09 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu May 28 06:30:54 2020  
Response via : Initial Calibration





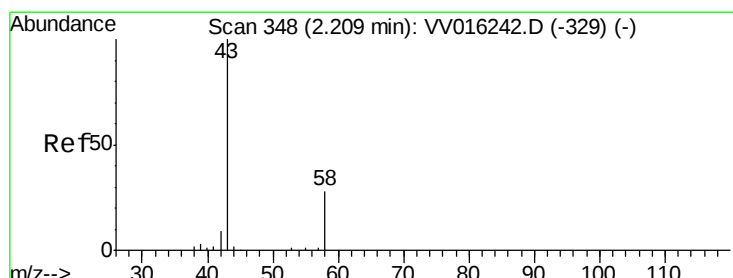
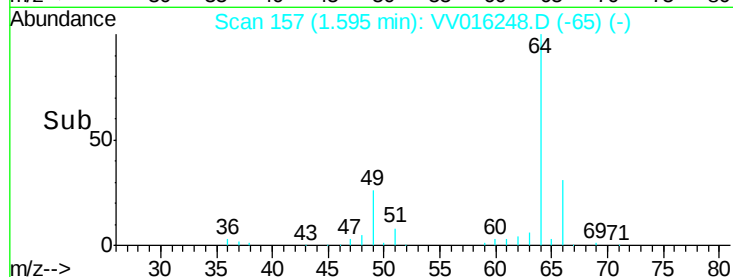
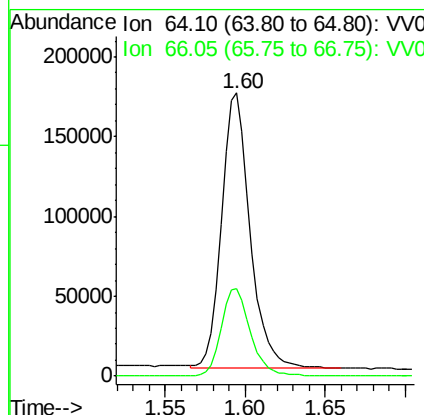
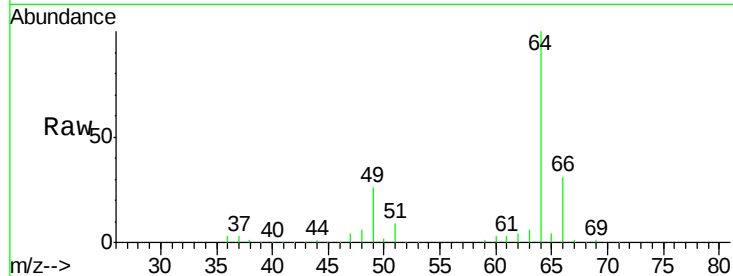
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Chloroethane  
Concen: 44.808 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampled :  
BE4Y8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 30.9  | 22.9  | 42.5  |

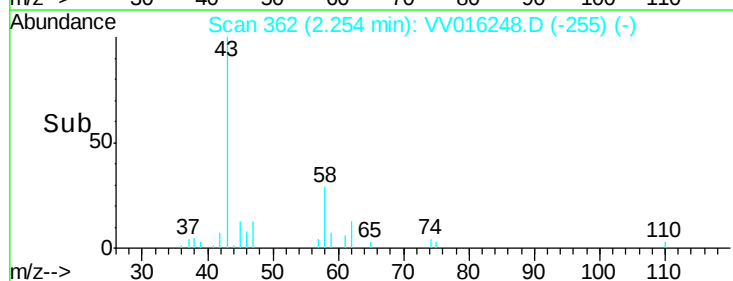
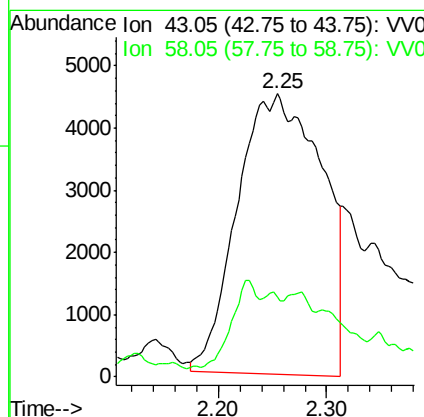
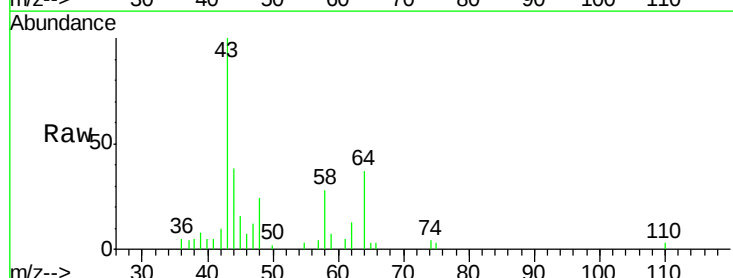
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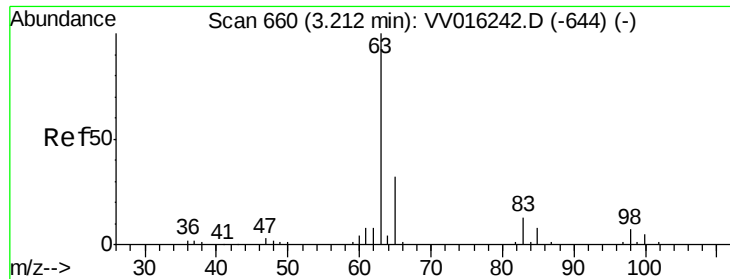
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#13  
Acetone  
Concen: 25.691 ug/L m  
RT: 2.25 min Scan# 362  
Delta R.T. 0.05 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 9.7   | 0.0   | 48.8  |





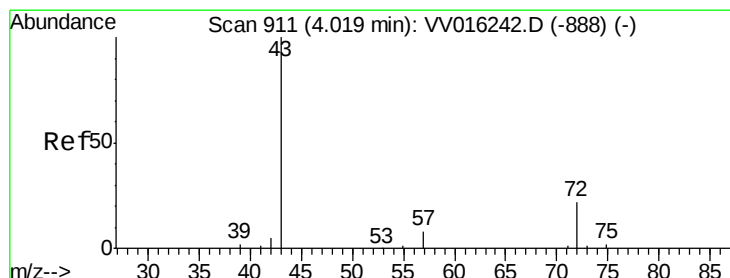
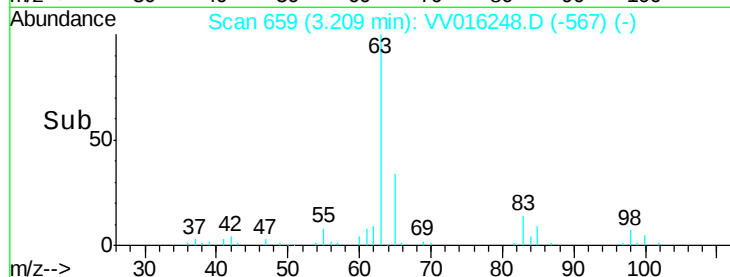
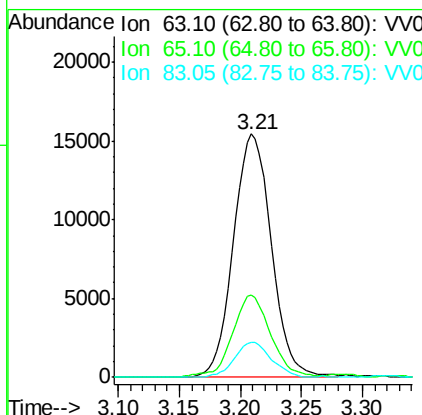
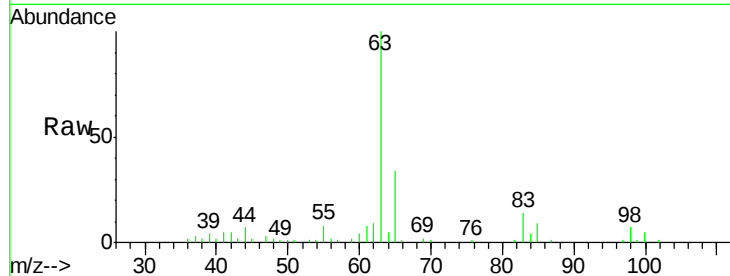
#19  
 1,1-Dichloroethane  
 Concen: 2.818 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. -0.00 min  
 Lab File: VV016248.D  
 Acq: 27 May 2020 23:46

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE4Y8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 33377 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 65        | 34.0  | 22.3  | 41.5  |
| 83        | 14.4  | 9.4   | 17.4  |

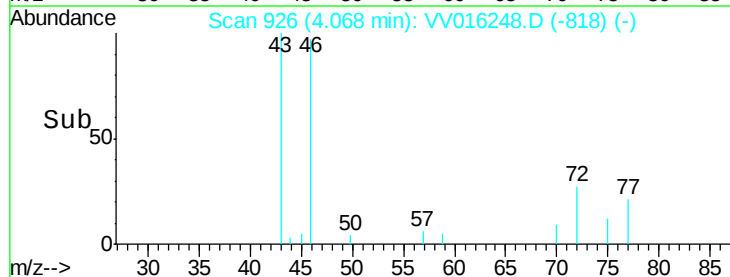
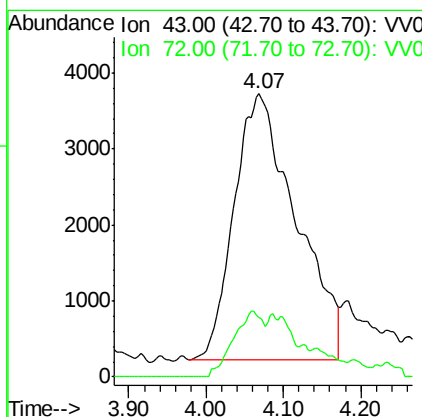
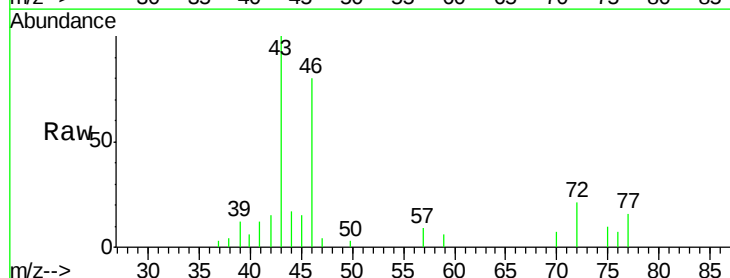
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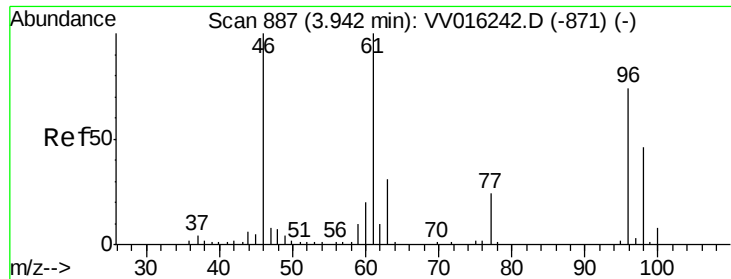
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#21  
 2-Butanone  
 Concen: 11.552 ug/L  
 RT: 4.07 min Scan# 926  
 Delta R.T. 0.05 min  
 Lab File: VV016248.D  
 Acq: 27 May 2020 23:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 19579 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 72        | 11.9  | 9.7   | 28.9  |





#22

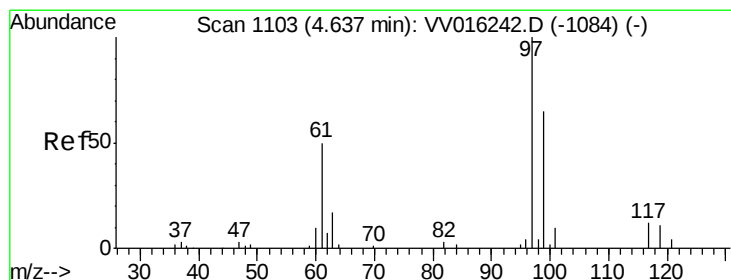
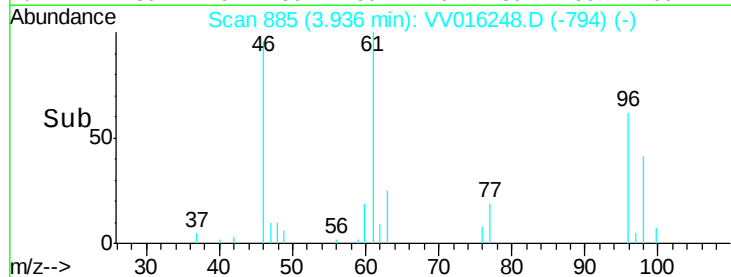
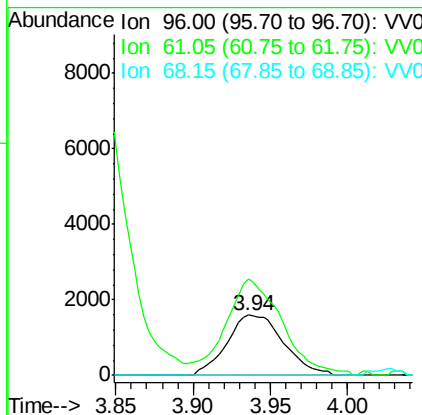
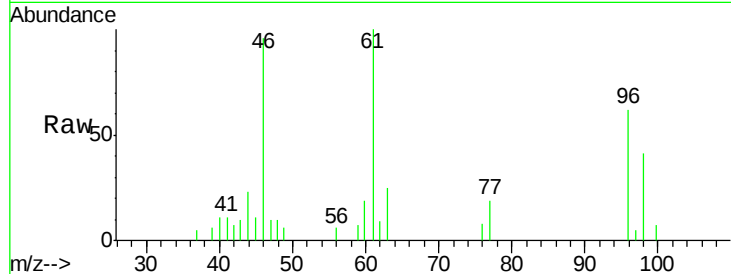
cis-1,2-Dichloroethene  
Concen: 0.553 ug/L  
RT: 3.94 min Scan# 885  
Delta R.T. -0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Y8

| Tot Ion | Ion   | Ratio | Resp | Lower | Upper |
|---------|-------|-------|------|-------|-------|
| 96      | 100   |       | 4076 |       |       |
| 61      | 161.0 |       | 99.7 | 185.1 |       |
| 68      | 0.0   |       | 0.0  | 0.0   |       |

Manual Integrations  
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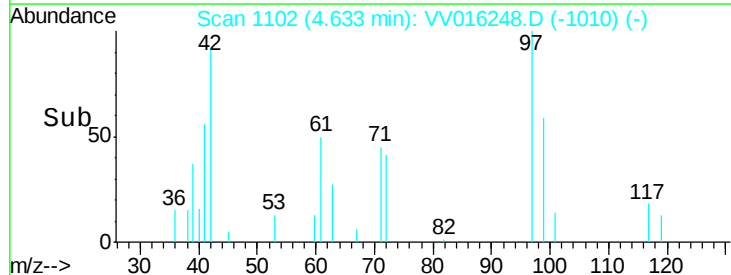
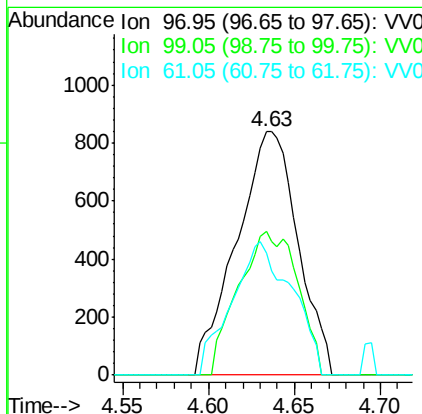
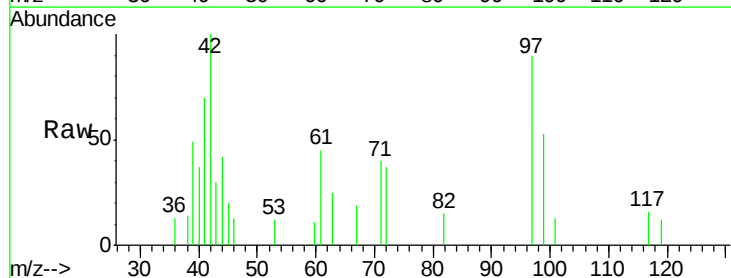
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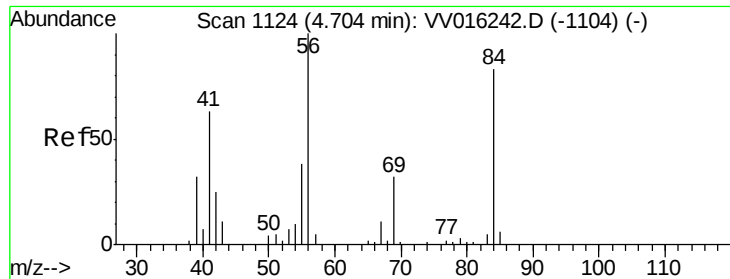


#29

1,1,1-Trichloroethane  
Concen: 0.184 ug/L  
RT: 4.63 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 97      | 100  |       | 2084 |       |       |
| 99      | 57.0 |       | 51.2 | 76.8  |       |
| 61      | 53.4 |       | 38.6 | 57.8  |       |





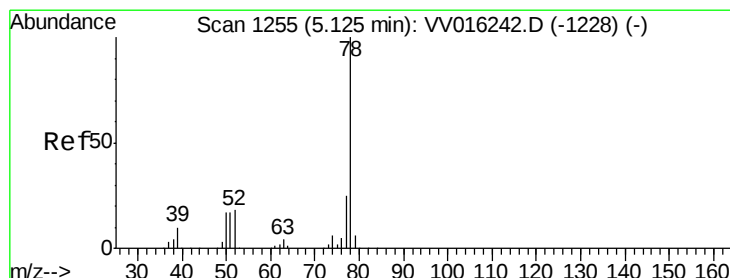
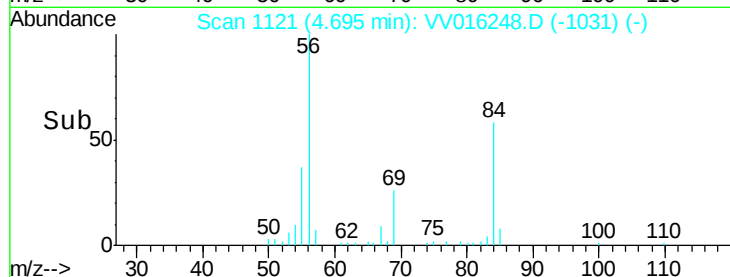
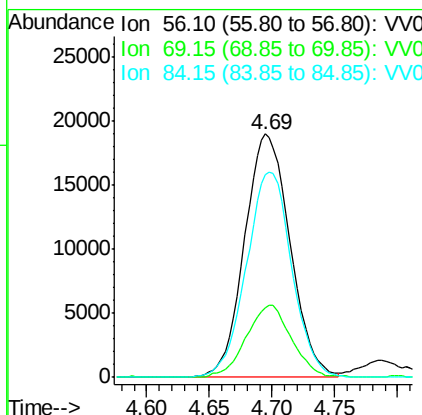
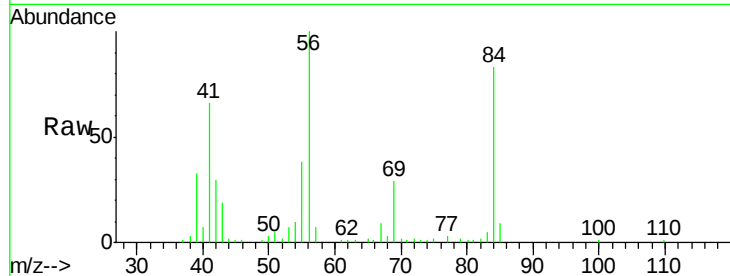
#30  
Cyclohexane  
Concen: 3.948 ug/L  
RT: 4.69 min Scan# 1121  
Delta R.T. -0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampleId :  
BE4Y8

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 56      | 100  |       |       |       |
| 69      | 29.2 | 24.6  | 36.8  |       |
| 84      | 84.2 | 67.1  | 100.7 |       |

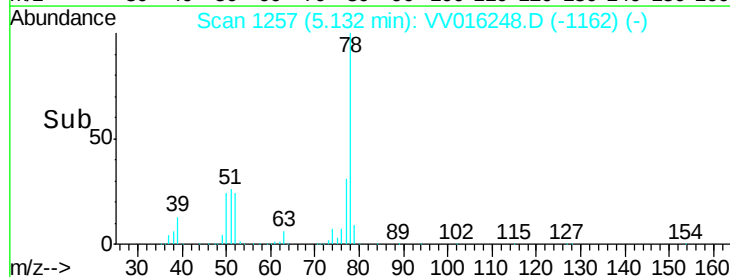
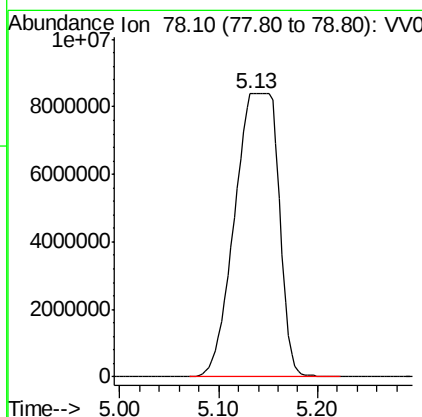
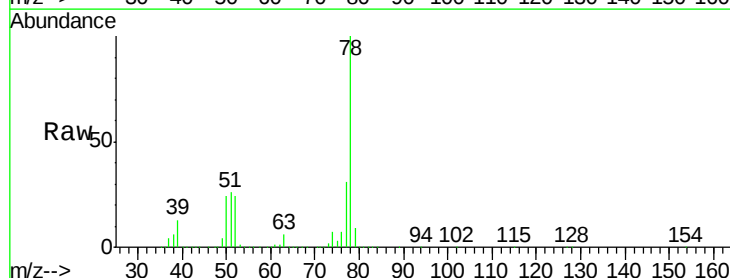
Manual Integrations  
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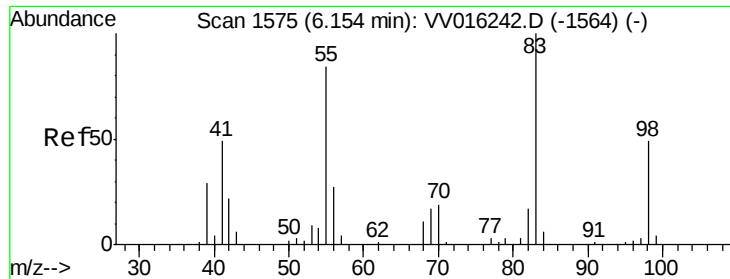
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5/29/2020 11:55:13 AM



#33  
Benzene  
Concen: 938.306 ug/L m  
RT: 5.13 min Scan# 1257  
Delta R.T. 0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Tgt Ion: 78 Resp:25785664





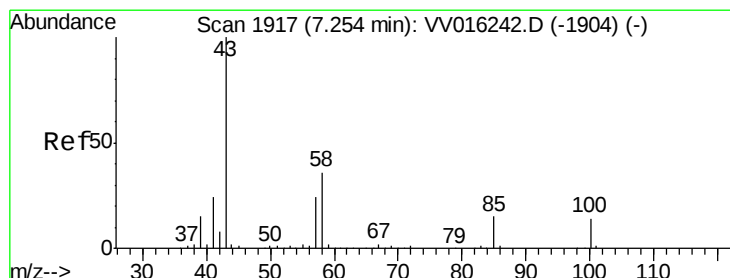
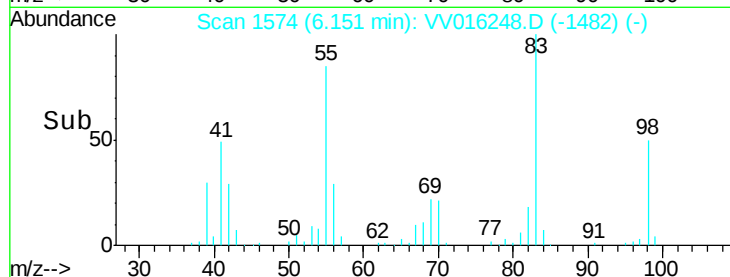
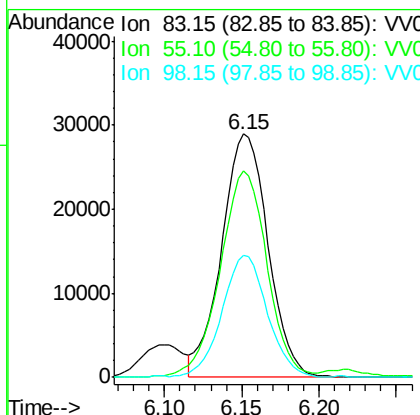
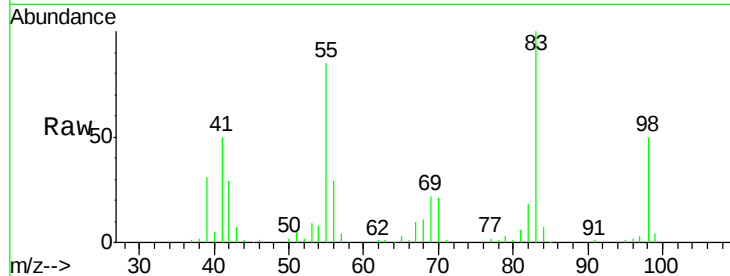
#35  
Methylcyclohexane  
Concen: 4.986 ug/L  
RT: 6.15 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampled :  
BE4Y8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 60204 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 85.0  | 65.4  | 98.0  |
| 98       | 49.0  | 39.3  | 58.9  |

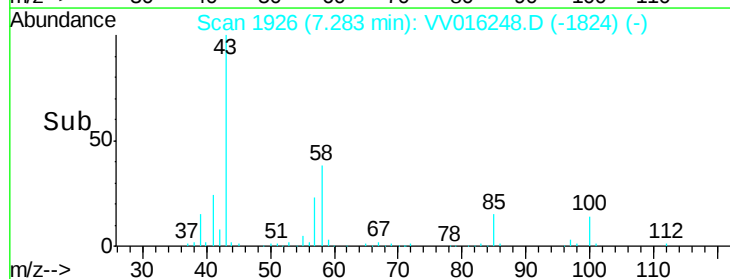
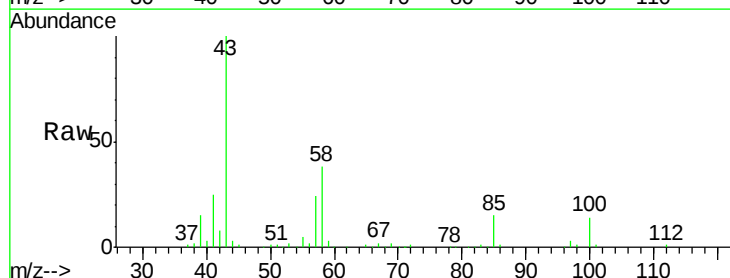
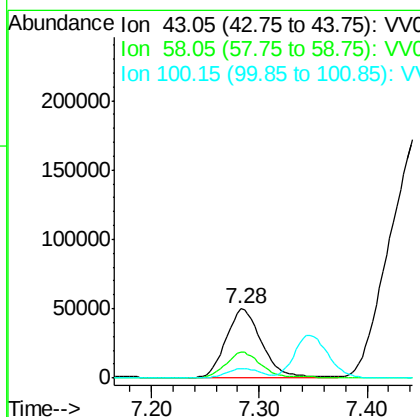
Manual Integrations  
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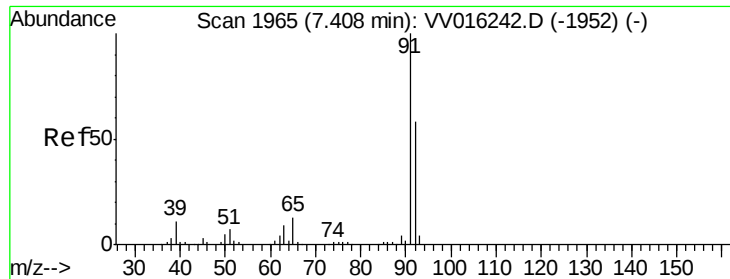
MMDadoda  
5/29/2020 11:55:13 AM



#40  
4-Methyl-2-pentanone  
Concen: 27.461 ug/L  
RT: 7.28 min Scan# 1926  
Delta R.T. 0.03 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 115155 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 38.5  | 29.5  | 44.3   |
| 100      | 13.2  | 11.1  | 16.7   |





#42

Toluene

Concen: 1056.367 ug/L m

RT: 7.42 min Scan# 1969

Delta R.T. 0.01 min

Lab File: VV016248.D

Acq: 27 May 2020 23:46

Instrument :

MSVOA\_V

ClientSampleId :

BE4Y8

Tot Ion: 91 Resp: 31658925

Ion Ratio Lower Upper

91 100

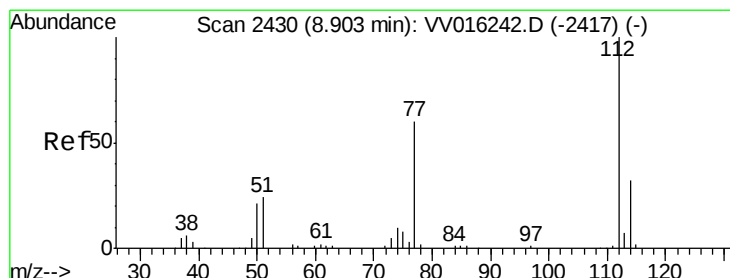
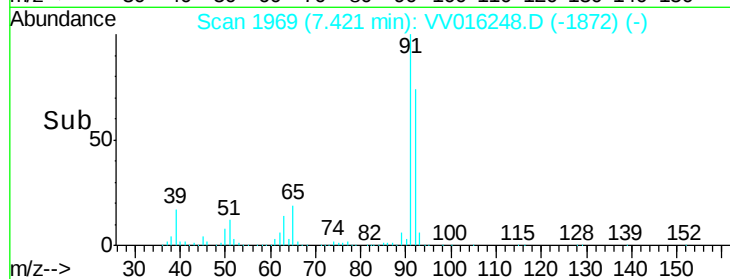
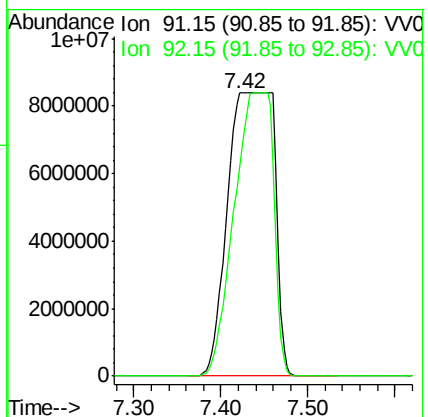
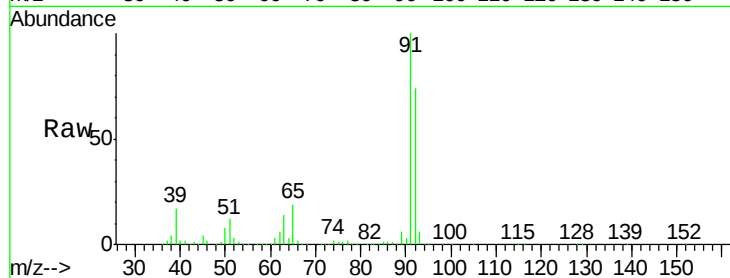
92 74.0 40.9 76.0

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#53

Chlorobenzene

Concen: 125.872 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VV016248.D

Acq: 27 May 2020 23:46

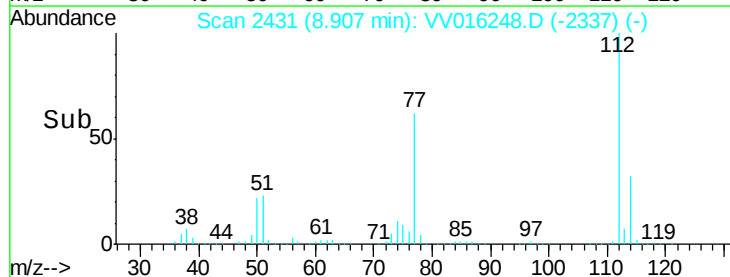
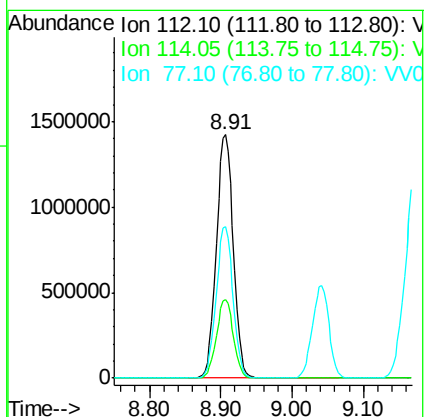
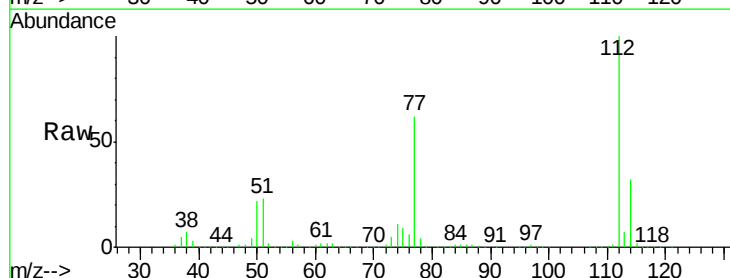
Tgt Ion: 112 Resp: 2330991

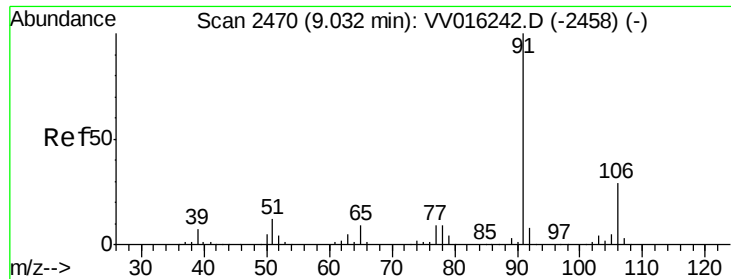
Ion Ratio Lower Upper

112 100

114 32.5 22.3 41.3

77 62.1 50.7 76.1





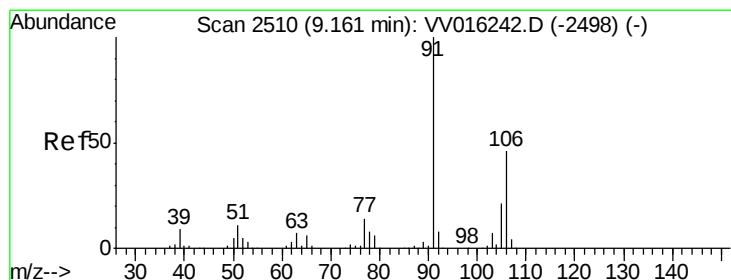
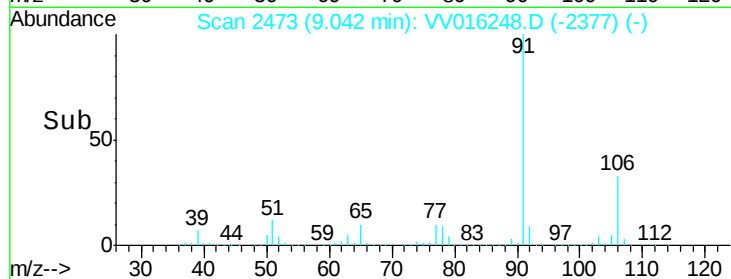
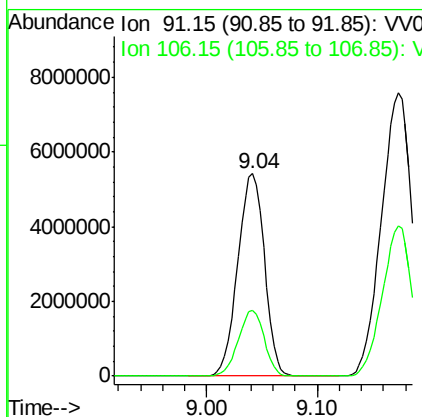
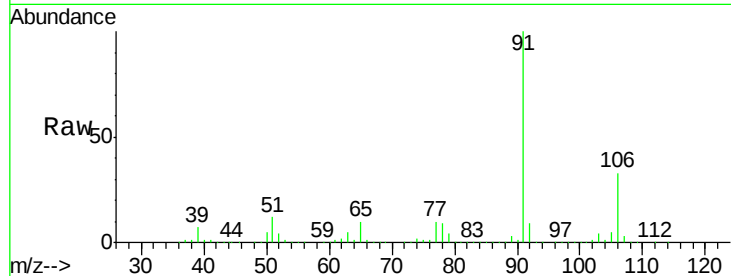
#54  
Ethylbenzene  
Concen: 271.632 ug/L  
RT: 9.04 min Scan# 2473  
Delta R.T. 0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampled :  
BE4Y8

Tot Ion: 91 Resp: 9074125  
Ion Ratio Lower Upper  
91 100  
106 32.5 21.0 39.0

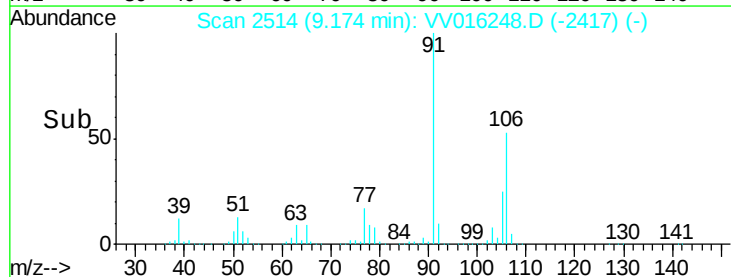
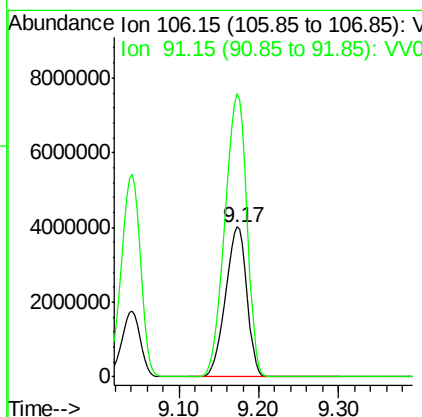
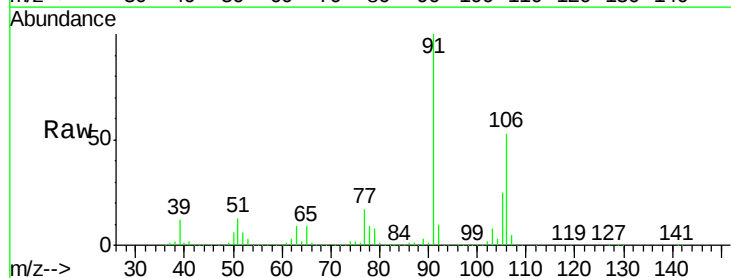
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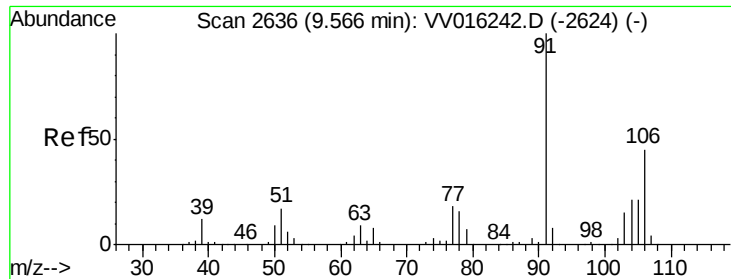
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#55  
m,p-xylene  
Concen: 585.139 ug/L  
RT: 9.17 min Scan# 2514  
Delta R.T. 0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Tgt Ion: 106 Resp: 7329680  
Ion Ratio Lower Upper  
106 100  
91 188.5 148.1 275.0





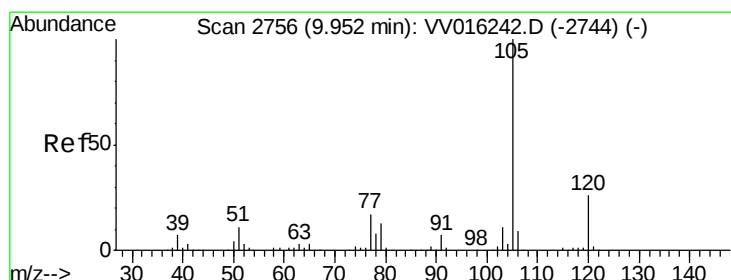
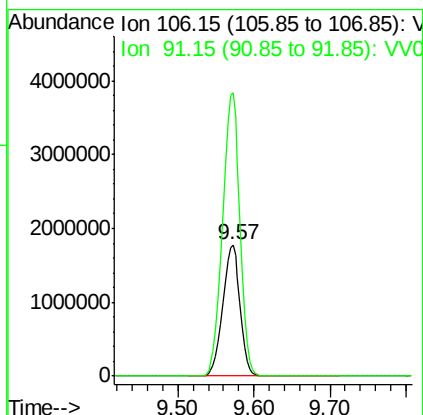
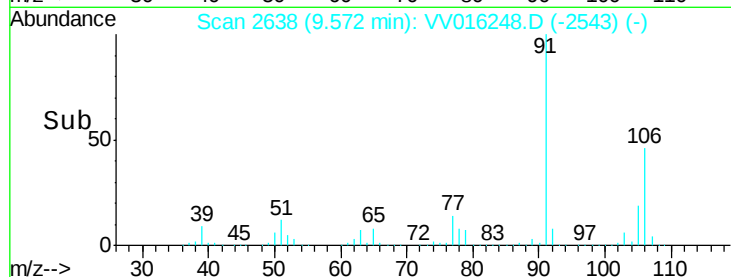
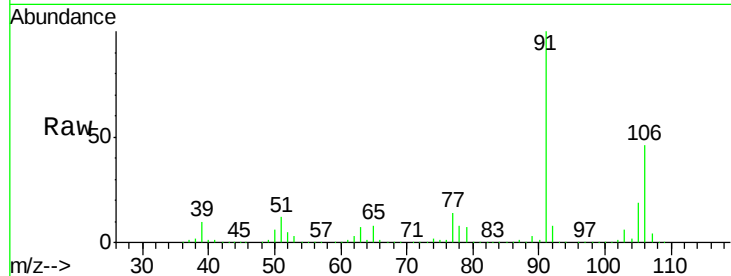
#56  
o-xylene  
Concen: 234.392 ug/L  
RT: 9.57 min Scan# 2638  
Delta R.T. 0.01 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Instrument :  
MSVOA\_V  
ClientSampled :  
BE4Y8

Tot Ion:106 Resp: 2797992  
Ion Ratio Lower Upper  
106 100  
91 216.0 158.8 294.8

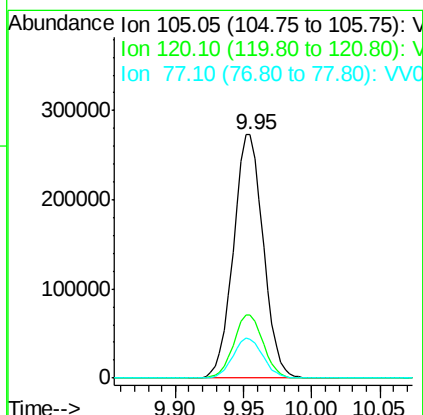
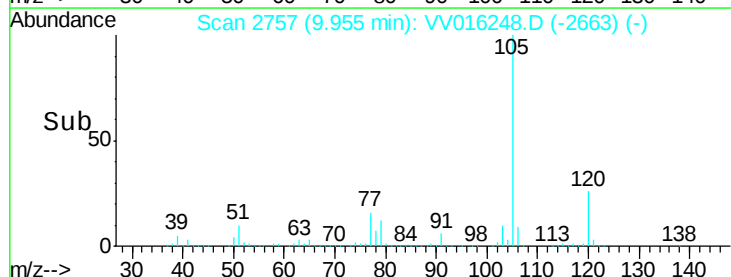
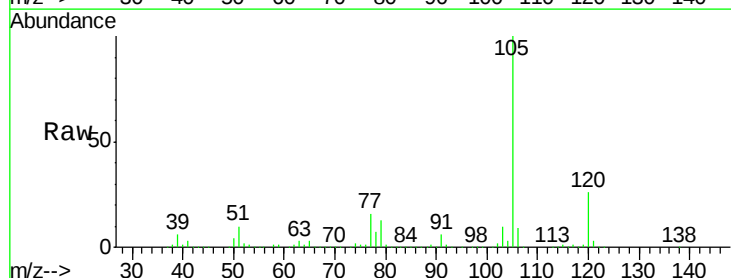
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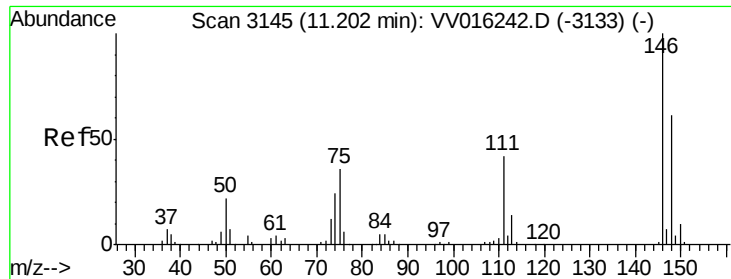
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#58  
Isopropylbenzene  
Concen: 12.658 ug/L  
RT: 9.95 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VV016248.D  
Acq: 27 May 2020 23:46

Tgt Ion:105 Resp: 413895  
Ion Ratio Lower Upper  
105 100  
120 25.8 20.9 31.3  
77 16.5 13.9 20.9





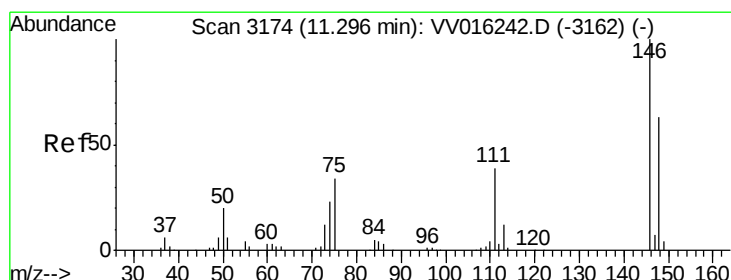
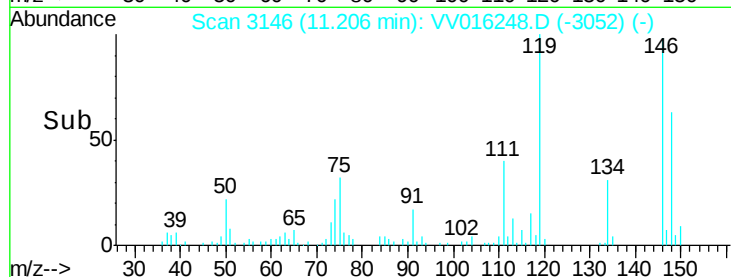
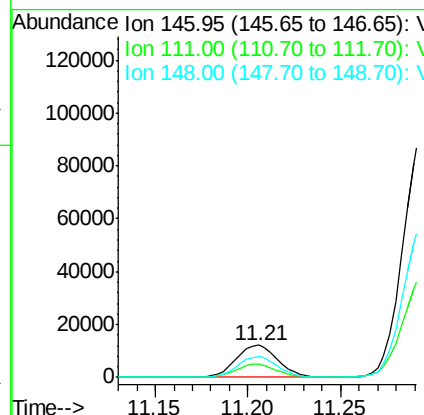
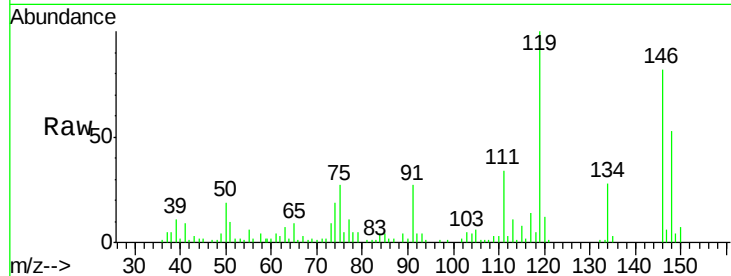
#63  
 1,3-Dichlorobenzene  
 Concen: 1.253 ug/L  
 RT: 11.21 min Scan# 3146  
 Delta R.T. 0.00 min  
 Lab File: VV016248.D  
 Acq: 27 May 2020 23:46

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE4Y8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.4  | 29.7  | 55.1  |
| 148     | 64.4  | 45.9  | 85.3  |

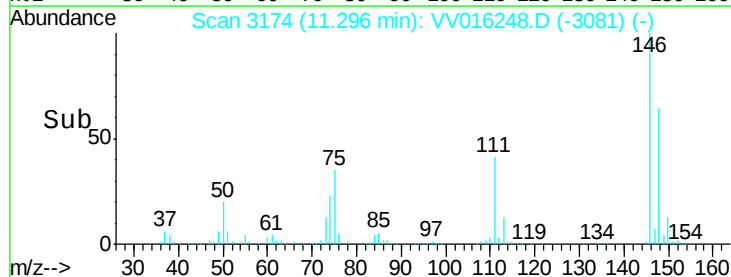
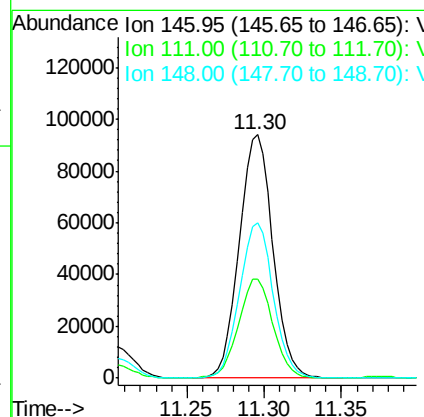
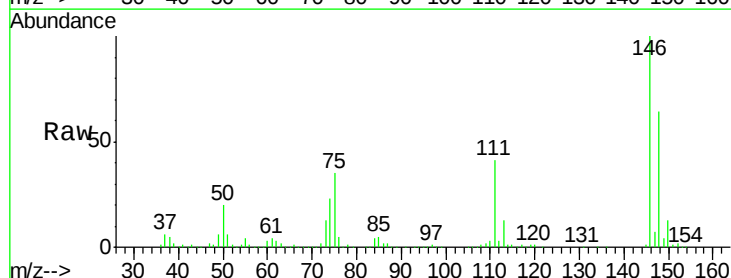
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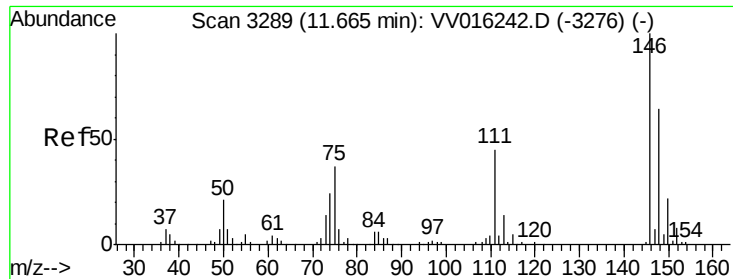
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 5/29/2020 11:55:13 AM



#64  
 1,4-Dichlorobenzene  
 Concen: 9.222 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: VV016248.D  
 Acq: 27 May 2020 23:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.9  | 28.3  | 52.7  |
| 148     | 64.0  | 43.3  | 80.3  |





#66

1,2-Dichlorobenzene

Concen: 14.177 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016248.D

Acq: 27 May 2020 23:46

Instrument :

MSVOA\_V

ClientSampleId :

BE4Y8

Tot Ion:146 Resp: 194178

Ion Ratio Lower Upper

146 100

111 43.7 35.7 53.5

148 63.4 51.3 76.9

Manual Integrations

APPROVED

MMDadoda

5/29/2020 11:55:13 AM

