

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030520\  
 Data File : VD065434.D  
 Acq On : 05 Mar 2020 16:37  
 Operator : VA/SY  
 Sample : L1161-03 4PPBMDL  
 Misc : 6.83G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

Manual Integrations  
 APPROVED

MMDadoda  
 3/6/2020 11:17:33 AM

Quant Time: Mar 06 04:26:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 06 04:16:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 426498   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 665775   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 612055   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 300625   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65  | 200660   | 54.85 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.70% |      |
| 35) Dibromofluoromethane  | 7.92   | 113 | 211968   | 51.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.96% |      |
| 50) Toluene-d8            | 10.34  | 98  | 787098   | 49.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.66%  |      |
| 62) 4-Bromofluorobenzene  | 12.64  | 95  | 246035   | 50.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.92% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.99 | 85  | 14149  | 3.860  | ug/l   | 90     |
| 3) Chloromethane              | 2.21 | 50  | 19826  | 4.480  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62  | 18404  | 4.216  | ug/l   | 93     |
| 5) Bromomethane               | 2.77 | 94  | 13141  | 4.708  | ug/l   | 91     |
| 6) Chloroethane               | 2.93 | 64  | 11656  | 4.360  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.28 | 101 | 29119  | 4.527  | ug/l   | 88     |
| 8) Diethyl Ether              | 3.70 | 74  | 8005   | 4.185  | ug/l   | 82     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 18155  | 4.383  | ug/l   | 96     |
| 10) Methyl Iodide             | 4.30 | 142 | 13306  | 3.092  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 5.25 | 59  | 3879   | 18.485 | ug/l # | 76     |
| 12) 1,1-Dichloroethene        | 4.06 | 96  | 16039  | 4.044  | ug/l   | 81     |
| 13) Acrolein                  | 3.93 | 56  | 7727   | 21.351 | ug/l   | 98     |
| 14) Allyl chloride            | 4.71 | 41  | 24044  | 3.946  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.43 | 53  | 16993  | 20.422 | ug/l   | 98     |
| 16) Acetone                   | 4.16 | 43  | 15561  | 21.031 | ug/l   | 93     |
| 17) Carbon Disulfide          | 4.40 | 76  | 53693  | 4.065  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.73 | 43  | 9044   | 4.819  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 5.48 | 73  | 28526  | 3.740  | ug/l   | 98     |
| 20) Methylene Chloride        | 4.97 | 84  | 27564  | 6.022  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 5.47 | 96  | 18452  | 4.182  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.36 | 45  | 41940  | 3.703  | ug/l # | 94     |
| 23) Vinyl Acetate             | 6.31 | 43  | 104192 | 16.567 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.26 | 63  | 30916  | 4.255  | ug/l   | 97     |
| 25) 2-Butanone                | 7.22 | 43  | 18912  | 18.730 | ug/l # | 88     |
| 26) 2,2-Dichloropropane       | 7.21 | 77  | 25451  | 4.009  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.22 | 96  | 18459  | 4.093  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.55 | 49  | 13176  | 4.533  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.57 | 42  | 12314  | 19.097 | ug/l   | 94     |
| 30) Chloroform                | 7.71 | 83  | 32581  | 4.487  | ug/l   | 92     |
| 31) Cyclohexane               | 7.98 | 56  | 31932  | 4.395  | ug/l # | 81     |
| 32) 1,1,1-Trichloroethane     | 7.91 | 97  | 28597  | 4.261  | ug/l   | 95     |
| 36) 1,1-Dichloropropene       | 8.11 | 75  | 24985  | 3.915  | ug/l   | 97     |
| 37) Ethyl Acetate             | 7.30 | 43  | 8686   | 3.521  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 8.10 | 117 | 25697  | 3.883  | ug/l   | 90     |

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 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

Manual Integrations  
 APPROVED

MMDadoda  
 3/6/2020 11:17:33 AM

Quant Time: Mar 06 04:26:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 06 04:16:29 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 25972    | 3.370  | ug/l   | 93       |
| 40) Benzene                    | 8.35  | 78   | 69027    | 3.868  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.52  | 41   | 4847     | 3.716  | ug/l # | 84       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 20951    | 4.497  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 17977    | 3.947  | ug/l   | 98       |
| 44) Trichloroethene            | 9.11  | 130  | 19932    | 3.955  | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 16935    | 3.918  | ug/l   | 99       |
| 46) Dibromomethane             | 9.47  | 93   | 9159     | 4.085  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.66  | 83   | 23999    | 4.115  | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.46  | 41   | 7959     | 3.715  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 1923     | 74.985 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 39545    | 17.254 | ug/l   | 93       |
| 52) Toluene                    | 10.41 | 92   | 44563    | 3.964  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.62 | 75   | 20883    | 3.831  | ug/l   | 91       |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 24493    | 3.712  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 13790    | 4.343  | ug/l # | 88       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 12523    | 3.498  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 21506    | 4.003  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 18581    | 16.095 | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.99 | 43   | 27521    | 17.346 | ug/l   | 89       |
| 60) Dibromochloromethane       | 11.14 | 129  | 16996    | 4.176  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.26 | 107  | 12507    | 4.129  | ug/l   | 94       |
| 64) Tetrachloroethene          | 10.87 | 164  | 17926    | 4.087  | ug/l   | 84       |
| 65) Chlorobenzene              | 11.67 | 112  | 49873    | 4.118  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 17215    | 3.903  | ug/l   | 96       |
| 67) Ethyl Benzene              | 11.75 | 91   | 73715    | 3.522  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.86 | 106  | 54931    | 6.807  | ug/l   | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 23899    | 3.367  | ug/l   | 97       |
| 70) Styrene                    | 12.20 | 104  | 41618    | 3.331  | ug/l   | 98       |
| 71) Bromoform                  | 12.36 | 173  | 9722     | 3.924  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 63958    | 3.235  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.29 | 43   | 12948    | 3.199  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 14428    | 4.151  | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 9271m    | 3.908  | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 18896    | 3.846  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 83502    | 3.559  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 47521    | 3.594  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 53693    | 3.303  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.54 | 75   | 3871     | 3.444  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 50599    | 3.642  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 43708    | 3.178  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.28 | 105  | 50348    | 3.142  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 63127    | 3.216  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.53 | 119  | 54363    | 3.035  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.53 | 146  | 36630    | 3.878  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 38285    | 4.075  | ug/l   | 92       |
| 89) n-Butylbenzene             | 13.86 | 91   | 52610    | 3.177  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.12 | 117  | 14233    | 3.858  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 30836    | 3.836  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 2218     | 4.190  | ug/l   | 84       |

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Sample : L1161-03 4PPBMDL  
Misc : 6.83G/5.00ml/MSVOA D/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

Manual Integrations  
APPROVED

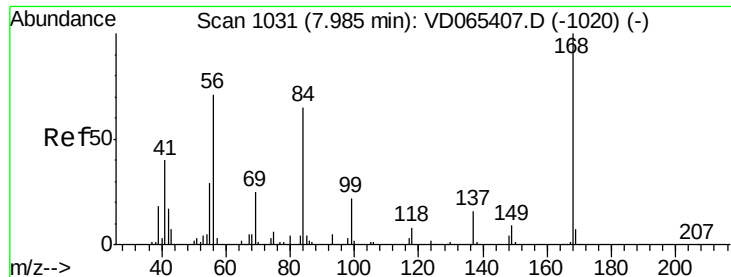
MMDadoda  
3/6/2020 11:17:33 AM

Quant Time: Mar 06 04:26:16 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030420S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 06 04:16:29 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.18 | 180  | 20017    | 3.674 | ug/l  | 93       |
| 94) Hexachlorobutadiene    | 15.28 | 225  | 13578    | 3.793 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 26460    | 3.037 | ug/l  | 96       |
| 96) 1,2,3-Trichlorobenzene | 15.61 | 180  | 16657    | 3.538 | ug/l  | 94       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:168 Resp: 426498

Ion Ratio Lower Upper

168 100

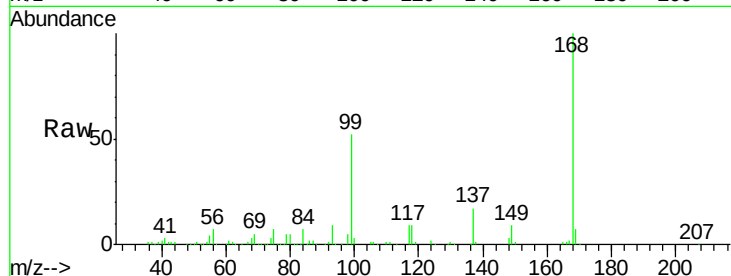
99 51.6 41.5 62.3

Manual Integrations

APPROVED

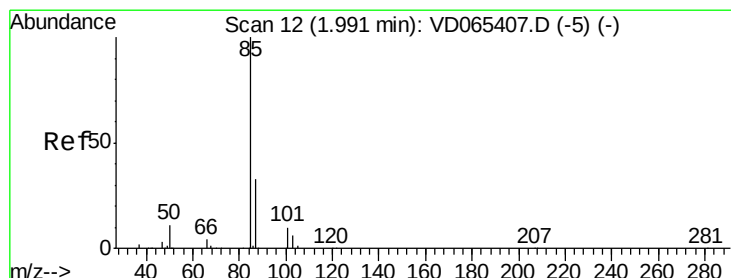
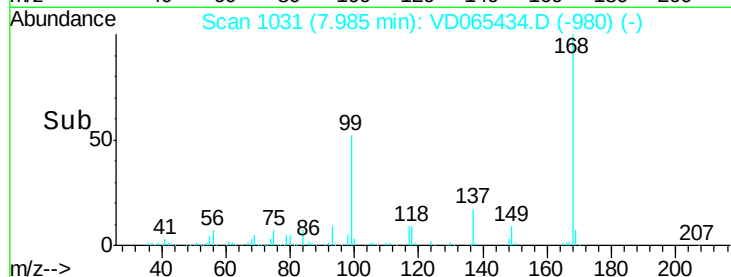
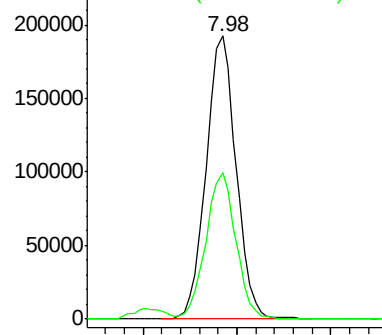
MMDadoda

3/6/2020 11:17:33 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 3.860 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD065434.D

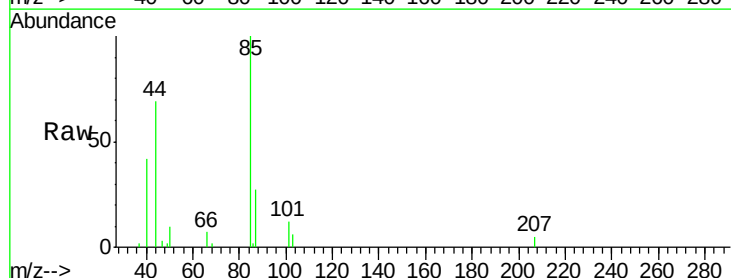
Acq: 05 Mar 2020 16:37

Tgt Ion: 85 Resp: 14149

Ion Ratio Lower Upper

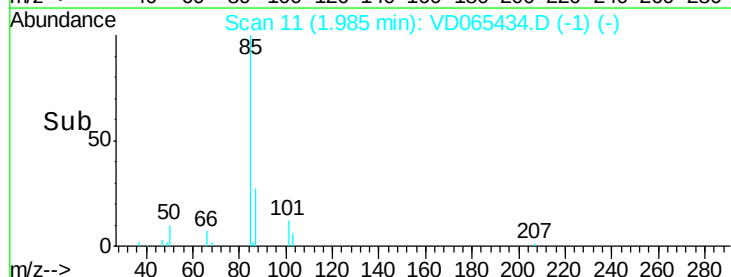
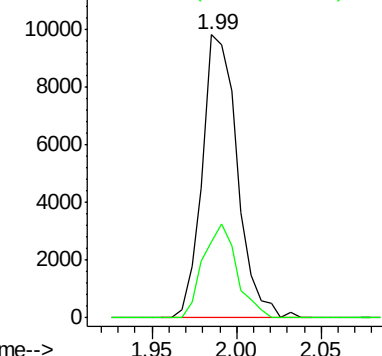
85 100

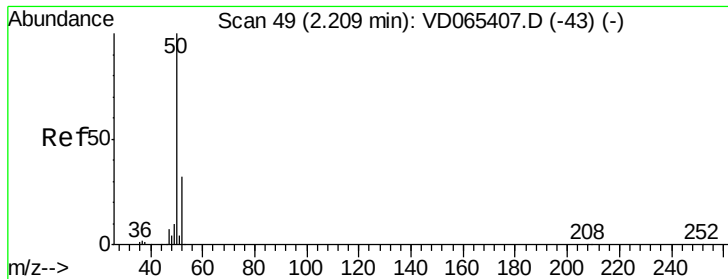
87 26.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 4.480 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 50 Resp: 19826

Ion Ratio Lower Upper

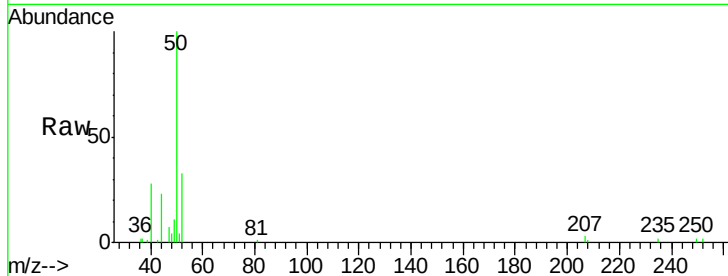
50 100

52 33.1 25.8 38.8

Manual Integrations  
APPROVED

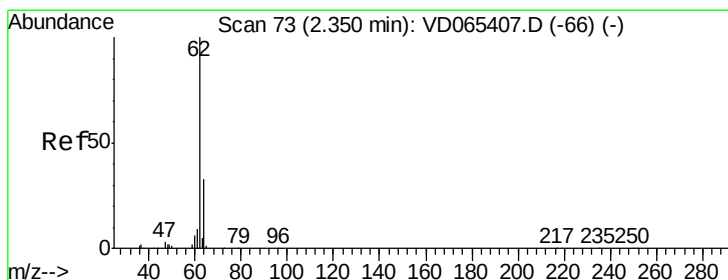
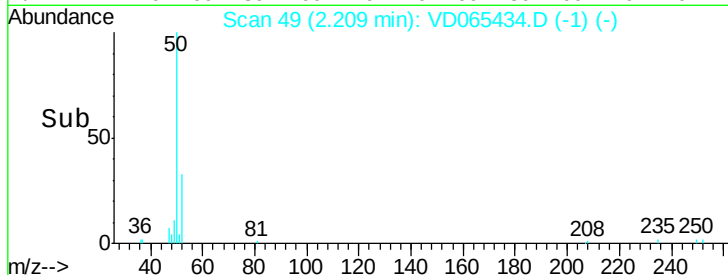
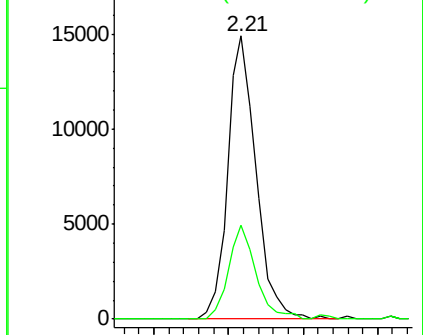
MMDadoda

3/6/2020 11:17:33 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 4.216 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065434.D

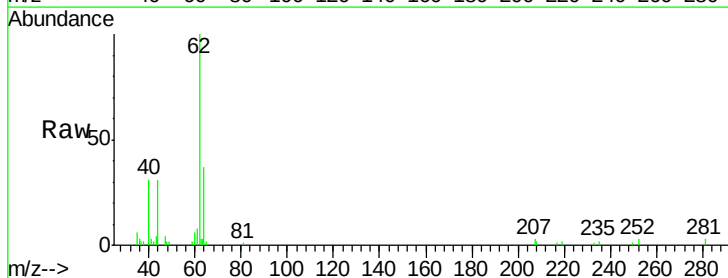
Acq: 05 Mar 2020 16:37

Tgt Ion: 62 Resp: 18404

Ion Ratio Lower Upper

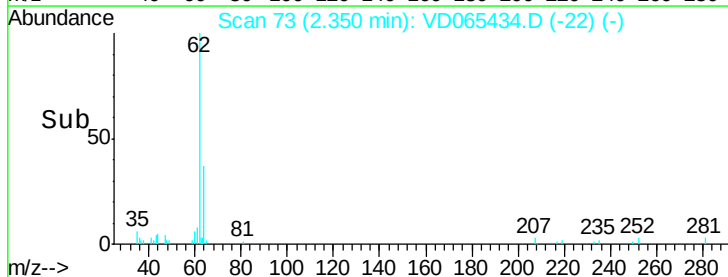
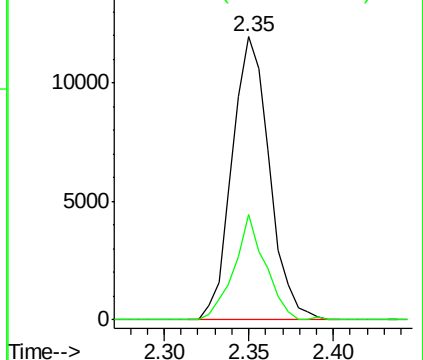
62 100

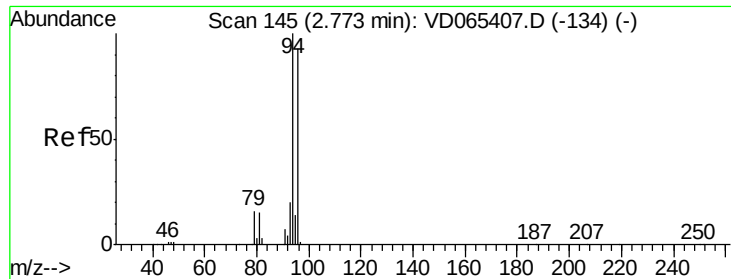
64 37.2 26.6 39.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 4.708 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 94 Resp: 13141

Ion Ratio Lower Upper

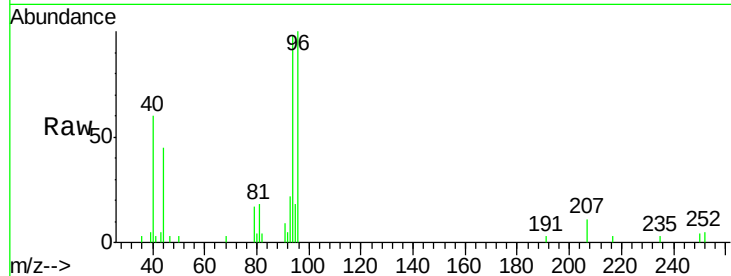
94 100

96 101.6 74.4 111.6

Manual Integrations  
APPROVED

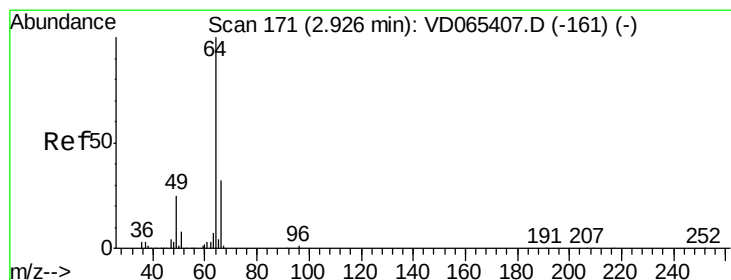
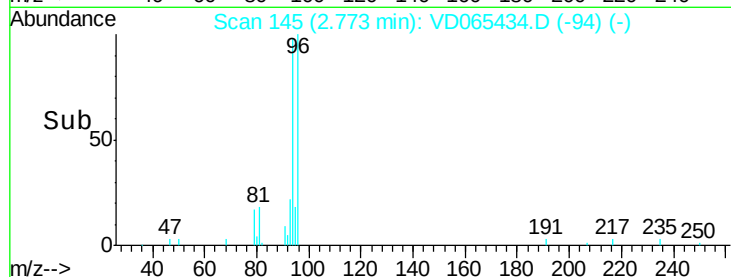
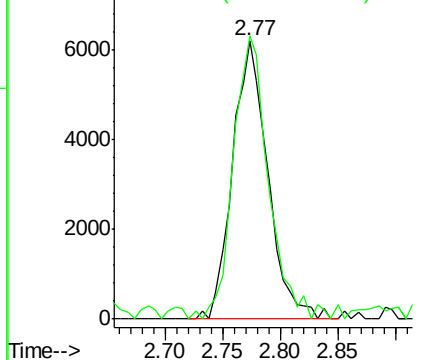
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3/6/2020 11:17:33 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 4.360 ug/l

RT: 2.93 min Scan# 171

Delta R.T. -0.00 min

Lab File: VD065434.D

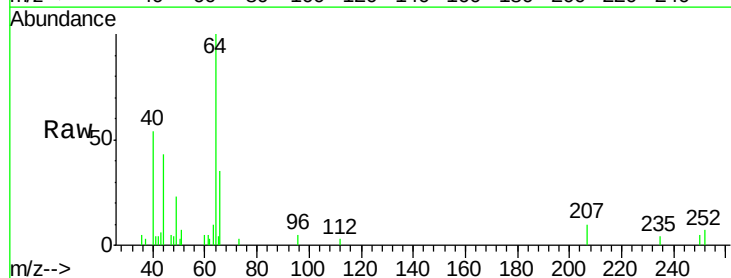
Acq: 05 Mar 2020 16:37

Tgt Ion: 64 Resp: 11656

Ion Ratio Lower Upper

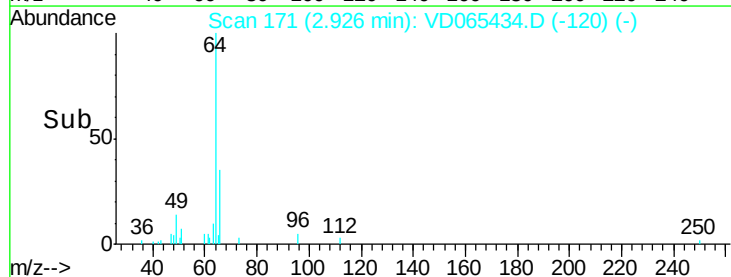
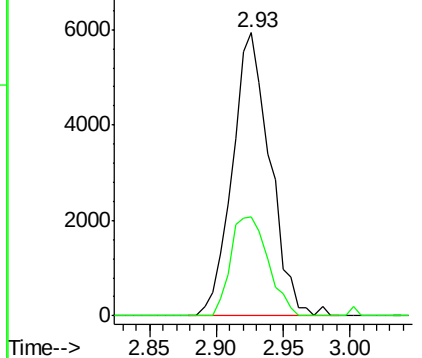
64 100

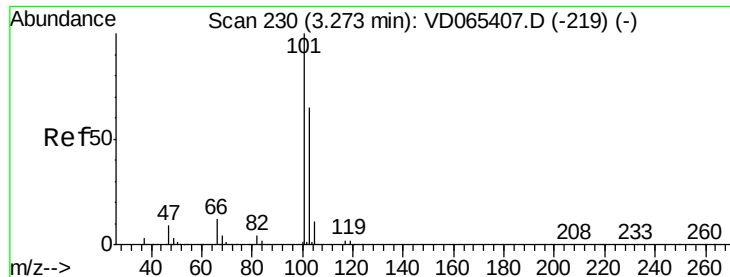
66 34.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

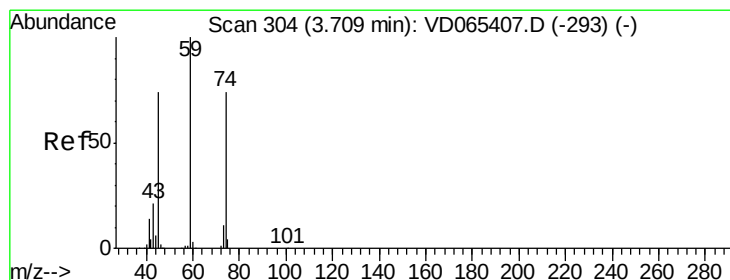
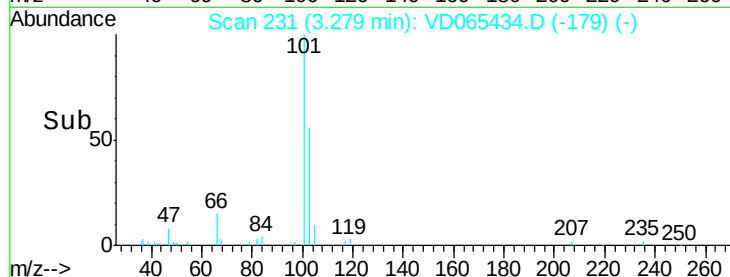
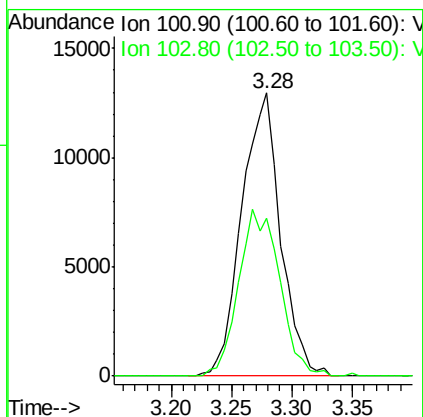
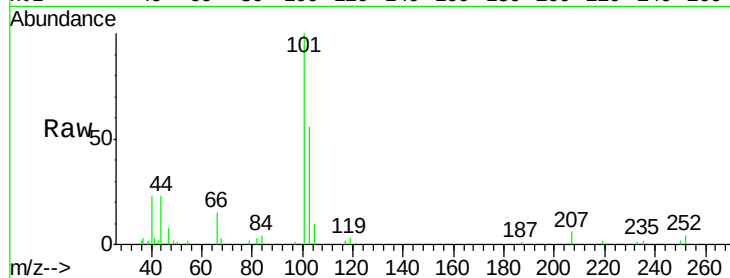
Trichlorofluoromethane  
Concen: 4.527 ug/l  
RT: 3.28 min Scan# 231  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 56.0  | 52.1  | 78.1  |

Manual Integrations  
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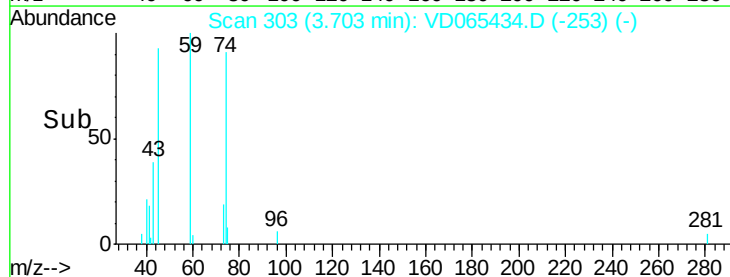
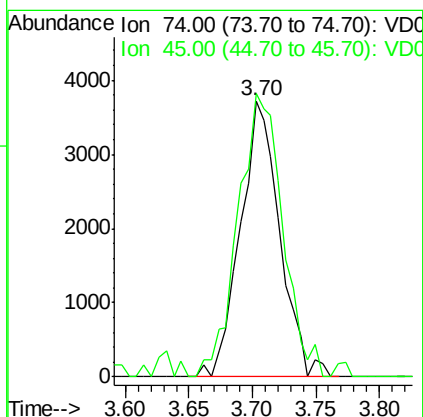
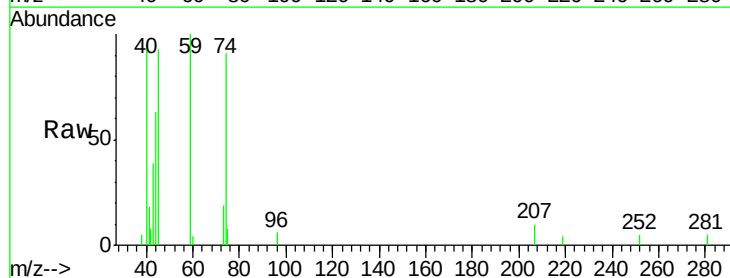
MMDadoda  
3/6/2020 11:17:33 AM



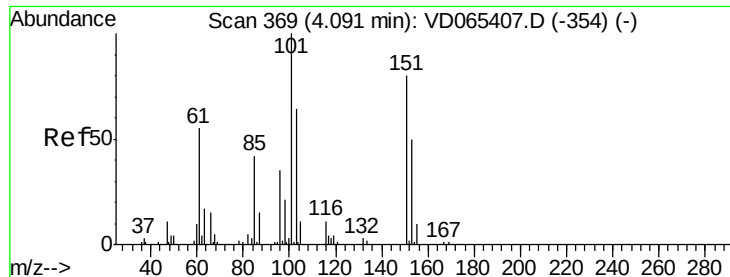
#8

Diethyl Ether  
Concen: 4.185 ug/l  
RT: 3.70 min Scan# 303  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 116.8 | 49.5  | 148.5 |







#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.383 ug/l

RT: 4.09 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

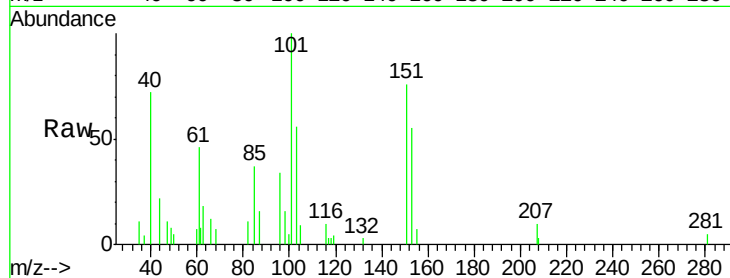
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

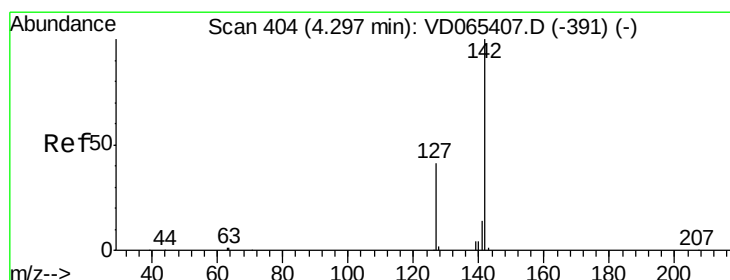
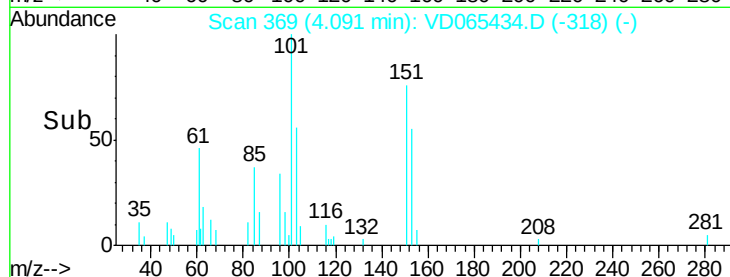
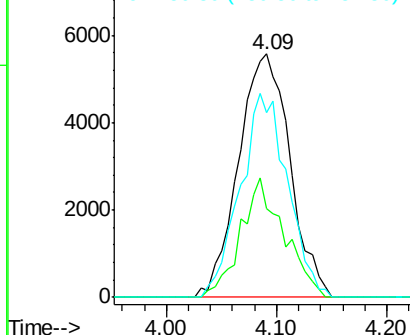
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 18155 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 41.3  | 34.2  | 51.2  |
| 151       | 77.3  | 65.1  | 97.7  |

Manual Integrations  
APPROVED

MMDadoda  
3/6/2020 11:17:33 AM



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.092 ug/l

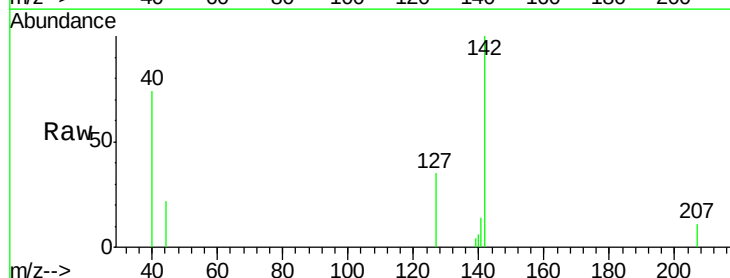
RT: 4.30 min Scan# 404

Delta R.T. -0.00 min

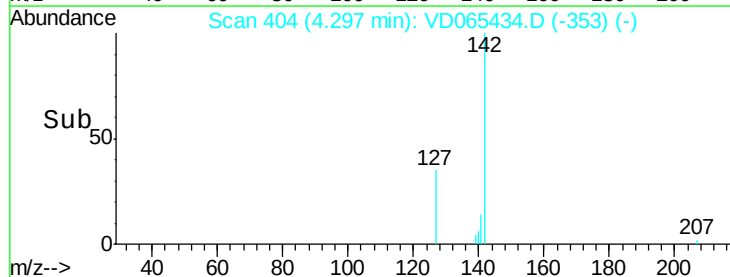
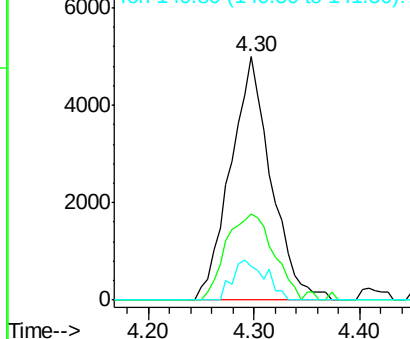
Lab File: VD065434.D

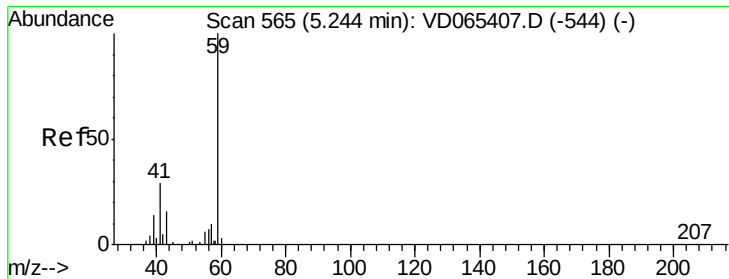
Acq: 05 Mar 2020 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 13306 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 41.2  | 35.0  | 52.6  |
| 141       | 13.3  | 12.4  | 18.6  |



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V





#11

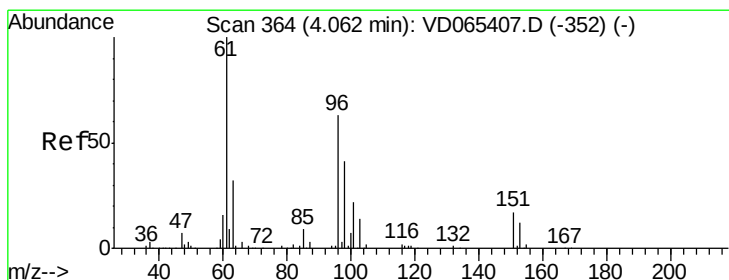
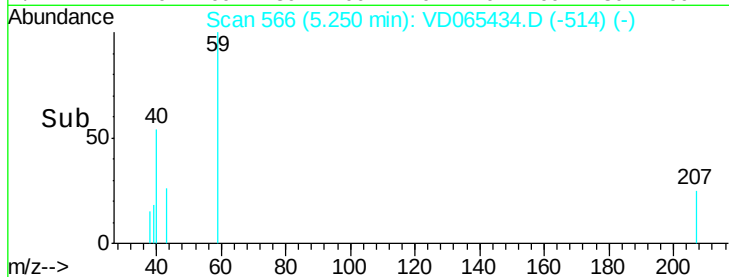
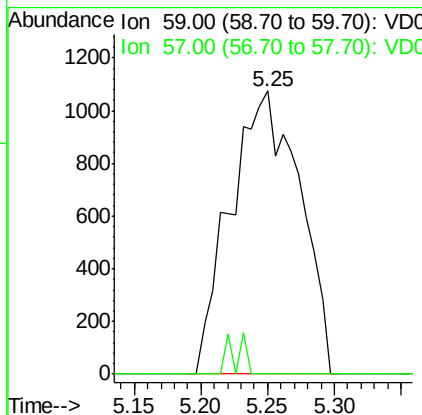
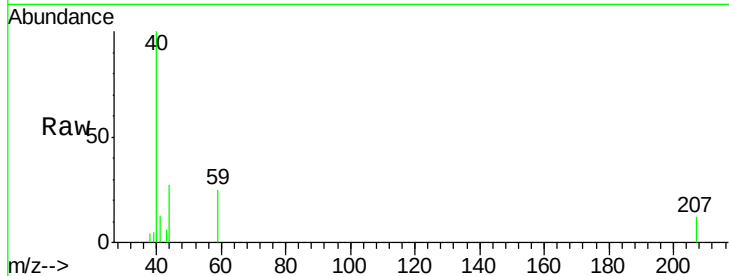
Tert butyl alcohol  
Concen: 18.485 ug/l  
RT: 5.25 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

Tot Ion: 59 Resp: 3879  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.9 10.3#

Manual Integrations  
APPROVED

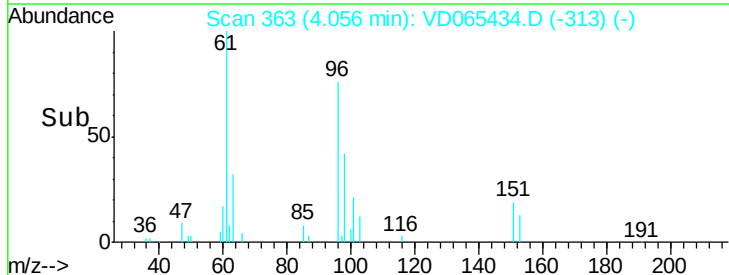
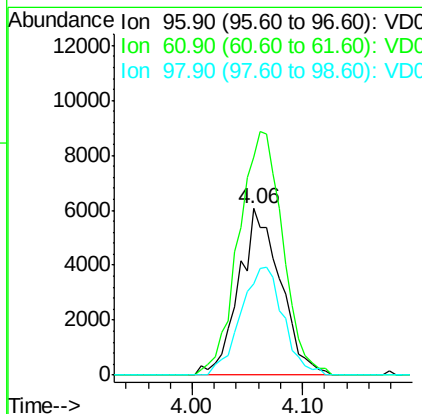
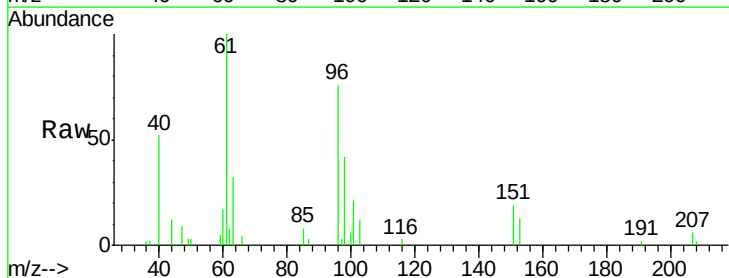
MMDadoda  
3/6/2020 11:17:33 AM

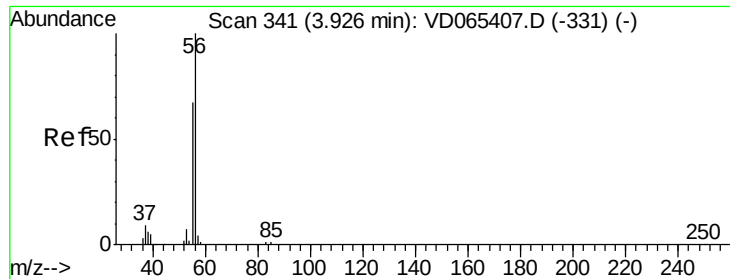


#12

1,1-Dichloroethene  
Concen: 4.044 ug/l  
RT: 4.06 min Scan# 363  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Tgt Ion: 96 Resp: 16039  
Ion Ratio Lower Upper  
96 100  
61 131.4 128.0 192.0  
98 54.7 51.9 77.9





#13

Acrolein

Concen: 21.351 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 56 Resp: 7727

Ion Ratio Lower Upper

56 100

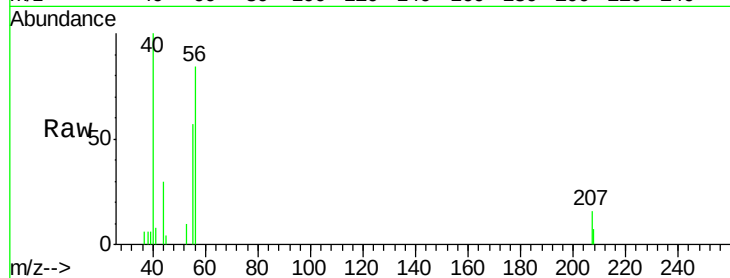
55 72.4 56.6 85.0

Manual Integrations

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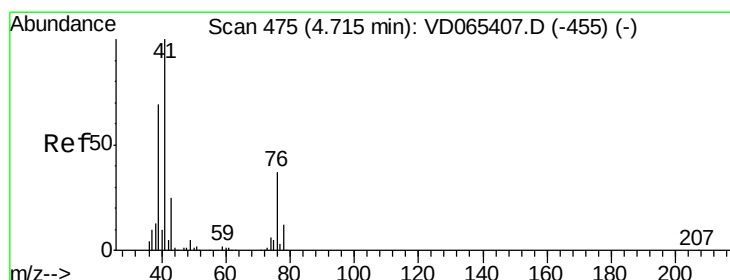
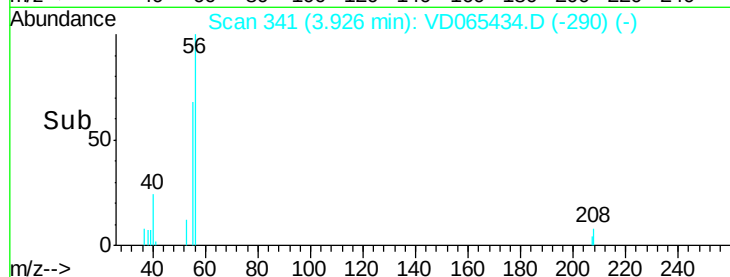
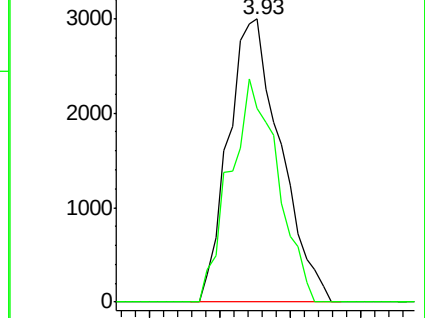
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3/6/2020 11:17:33 AM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 3.946 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

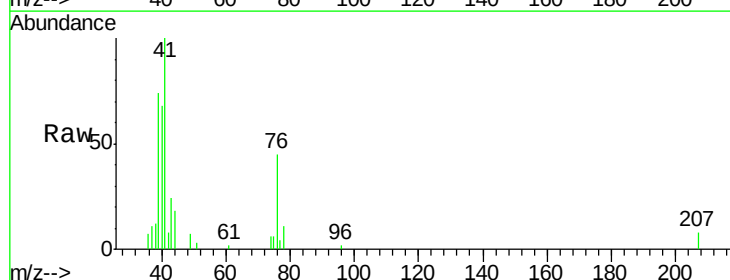
Tgt Ion: 41 Resp: 24044

Ion Ratio Lower Upper

41 100

39 67.1 52.6 79.0

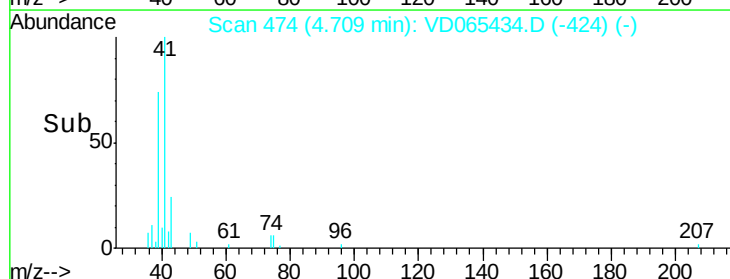
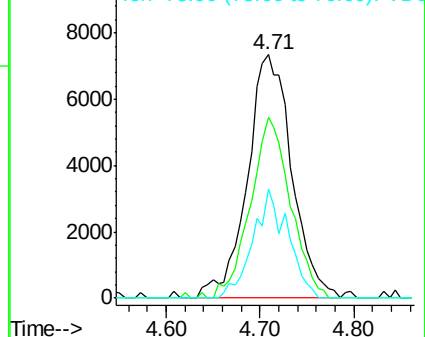
76 35.2 29.2 43.8

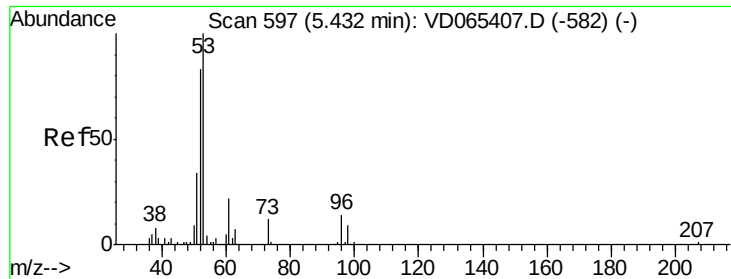


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 20.422 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

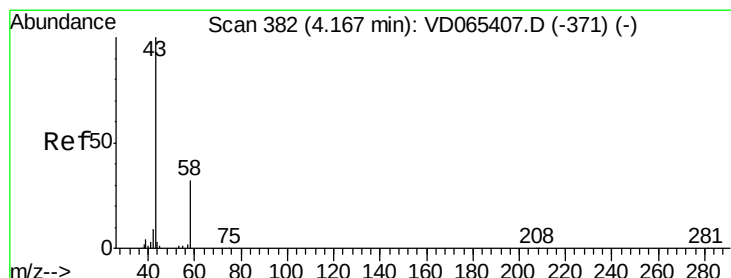
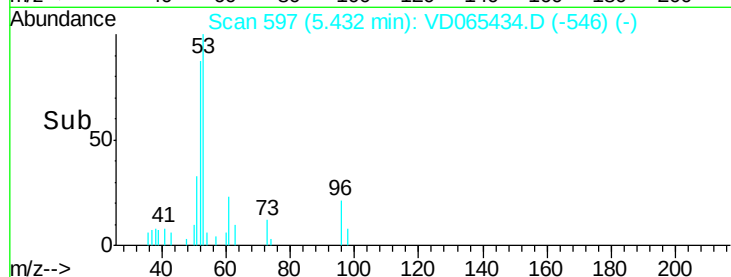
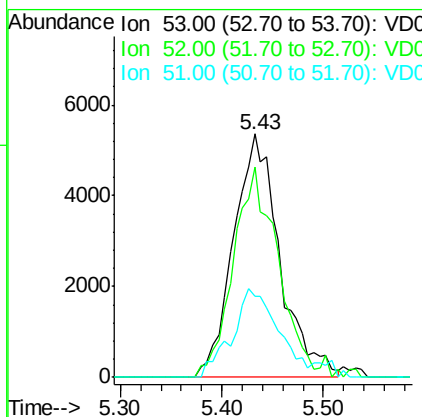
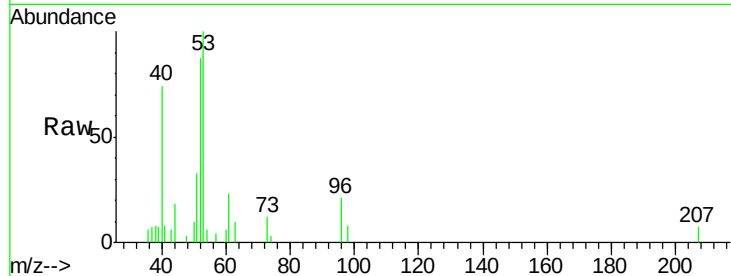
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 16993 |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 83.1  | 65.1  | 97.7  |
| 51       | 36.6  | 28.5  | 42.7  |

Manual Integrations  
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MMDadoda  
3/6/2020 11:17:33 AM



#16

Acetone

Concen: 21.031 ug/l

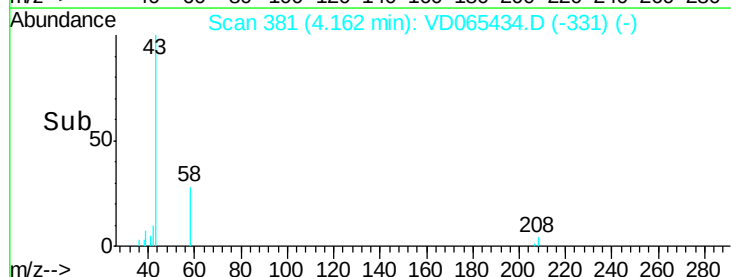
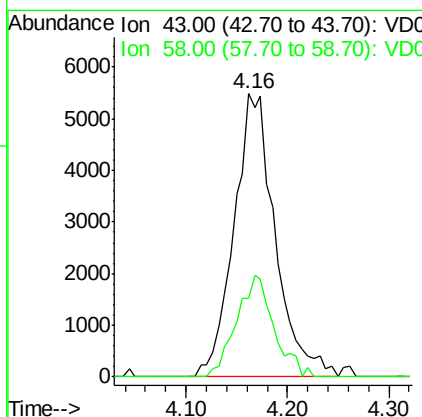
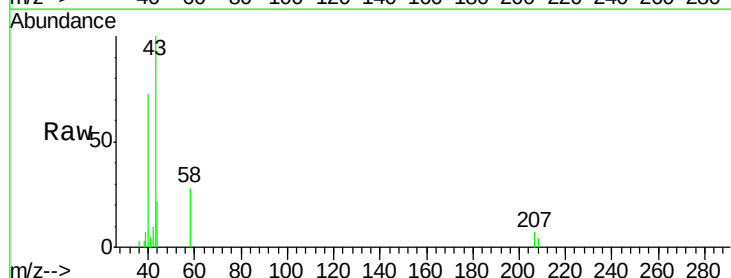
RT: 4.16 min Scan# 381

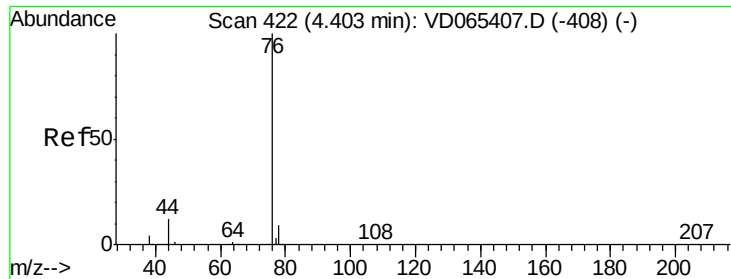
Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15561 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 27.6  | 25.1  | 37.7  |





#17

Carbon Disulfide

Concen: 4.065 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 76 Resp: 53693

Ion Ratio Lower Upper

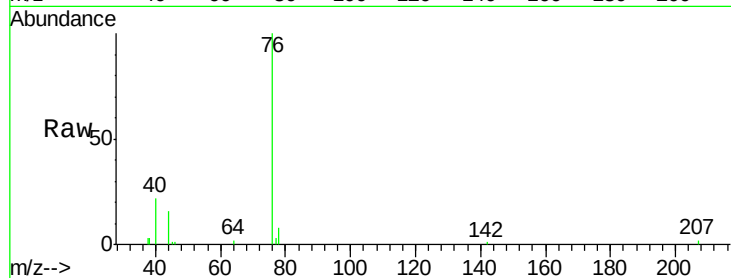
76 100

78 8.2 7.4 11.0

Manual Integrations  
APPROVED

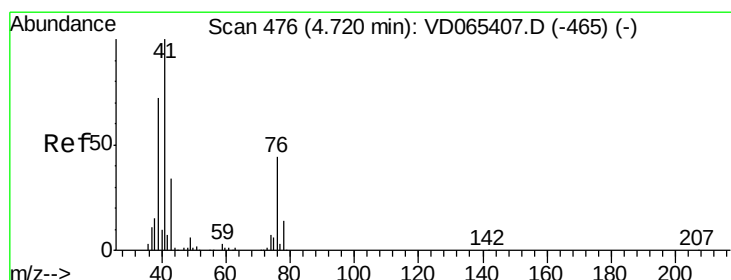
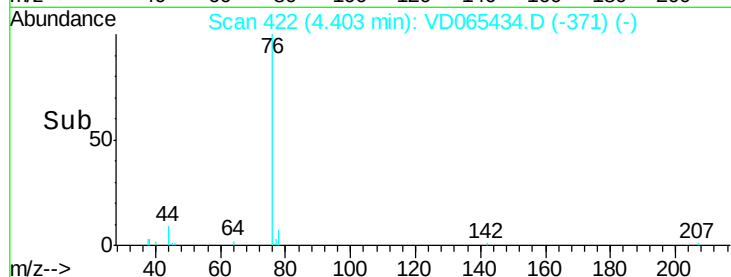
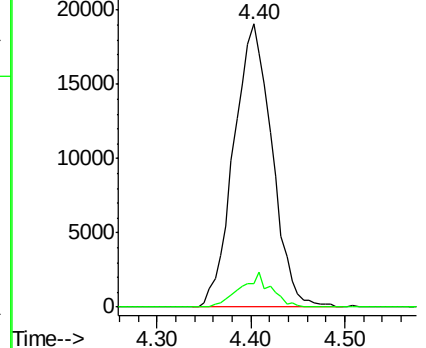
MMDadoda

3/6/2020 11:17:33 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 4.819 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.01 min

Lab File: VD065434.D

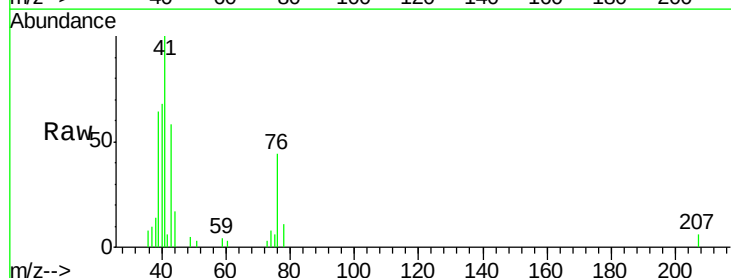
Acq: 05 Mar 2020 16:37

Tgt Ion: 43 Resp: 9044

Ion Ratio Lower Upper

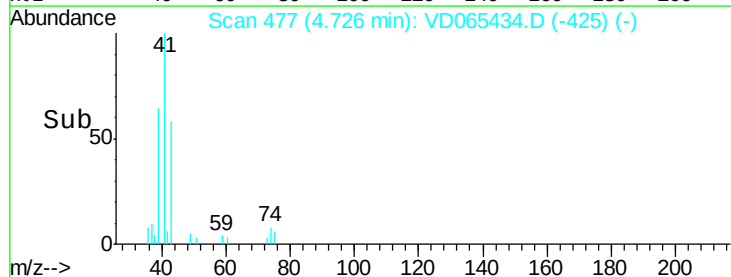
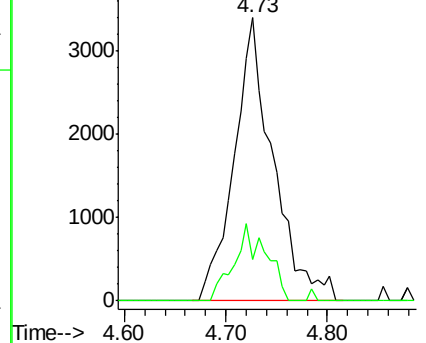
43 100

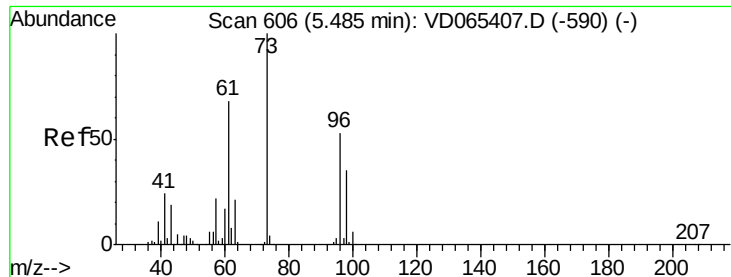
74 22.6 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





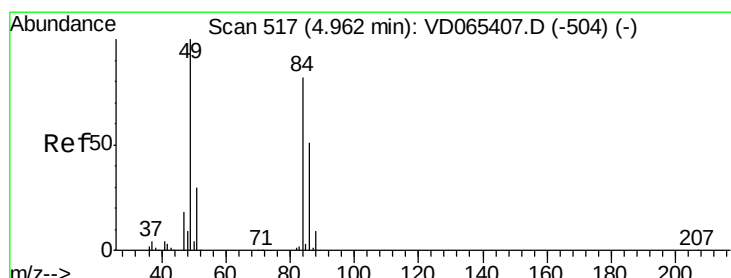
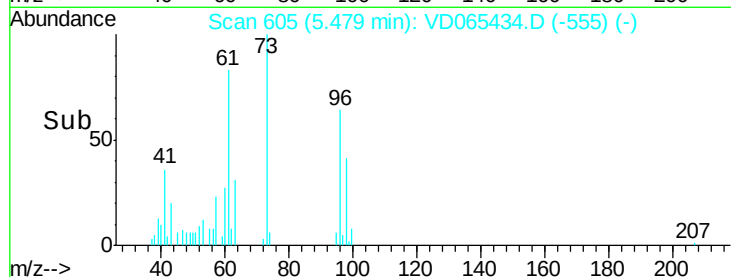
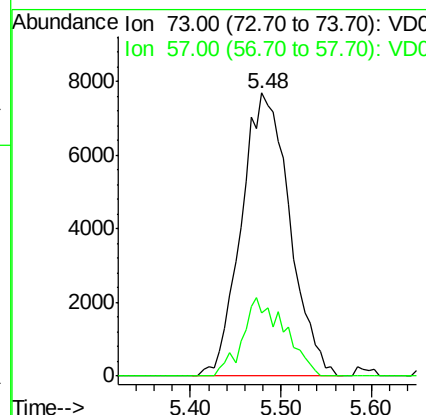
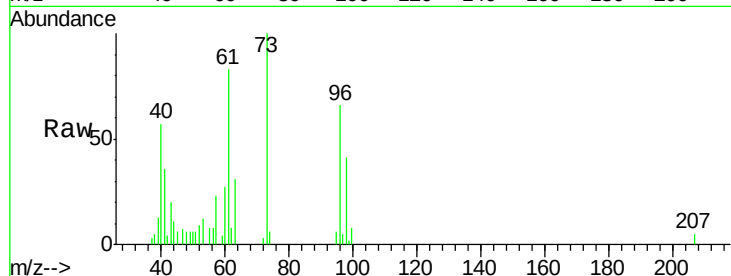
#19  
Methyl tert-butyl Ether  
Concen: 3.740 ug/l  
RT: 5.48 min Scan# 605  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

Tot Ion: 73 Resp: 28526  
Ion Ratio Lower Upper  
73 100  
57 22.5 17.3 25.9

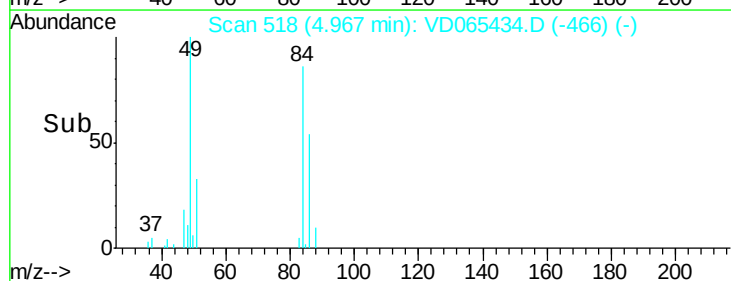
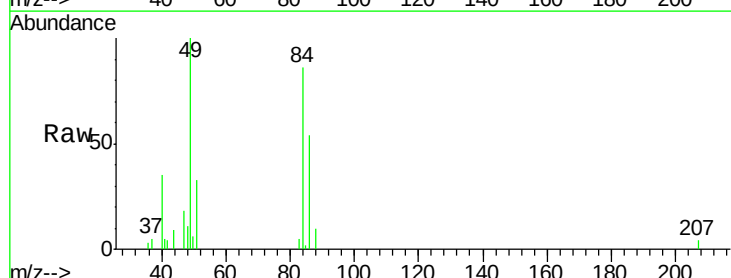
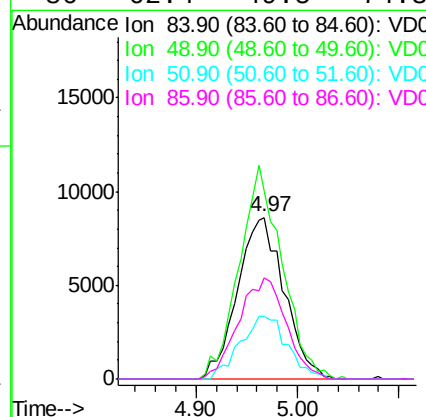
Manual Integrations  
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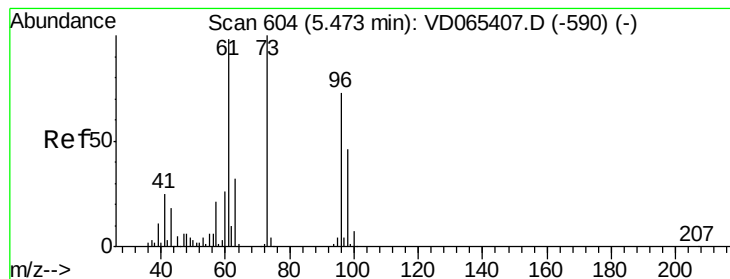
MMDadoda  
3/6/2020 11:17:33 AM



#20  
Methylene Chloride  
Concen: 6.022 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Tgt Ion: 84 Resp: 27564  
Ion Ratio Lower Upper  
84 100  
49 116.1 97.7 146.5  
51 38.4 28.8 43.2  
86 62.4 49.5 74.3





#21

trans-1,2-Dichloroethene

Concen: 4.182 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

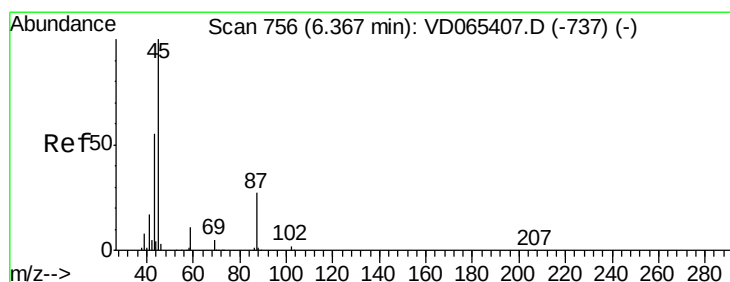
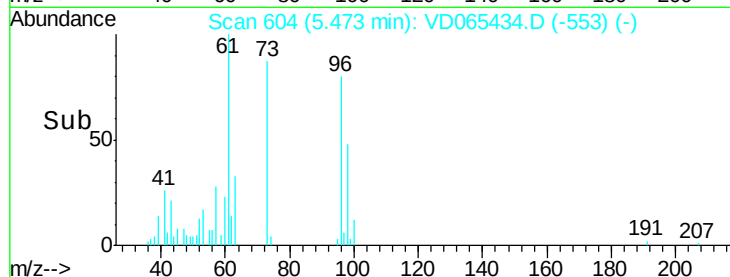
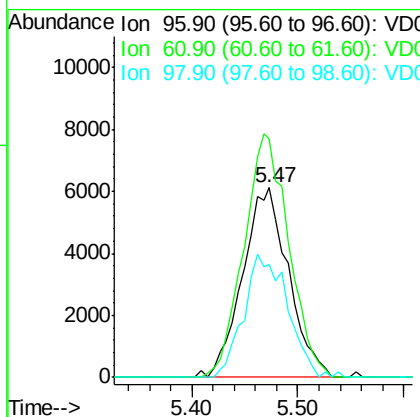
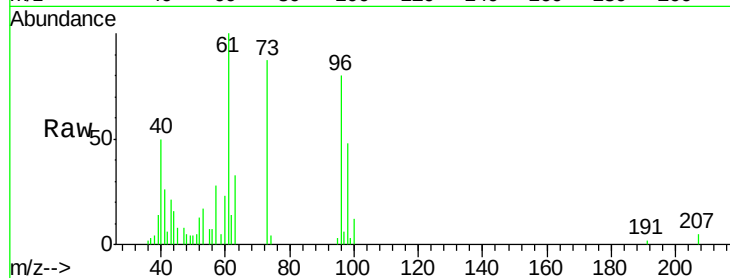
ClientSampleID :

MDL-SOIL-03-QT1-2020DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 18452 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 125.7 | 106.3 | 159.5 |
| 98       | 59.8  | 50.2  | 75.4  |

Manual Integrations  
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MMDadoda  
3/6/2020 11:17:33 AM



#22

Diisopropyl ether

Concen: 3.703 ug/l

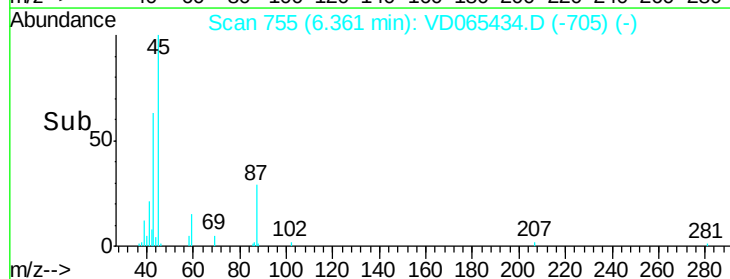
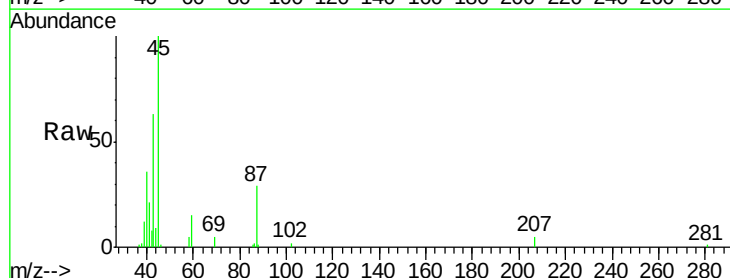
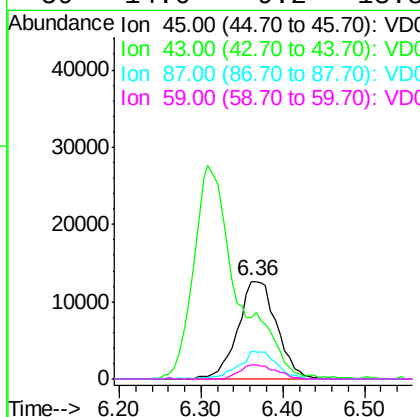
RT: 6.36 min Scan# 755

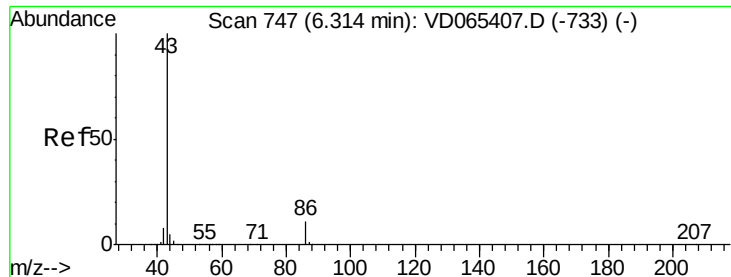
Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 41940 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 60.7  | 44.4  | 66.6  |
| 87       | 29.4  | 21.9  | 32.9  |
| 59       | 14.6  | 9.2   | 13.8# |





#23

Vinyl Acetate

Concen: 16.567 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 104192

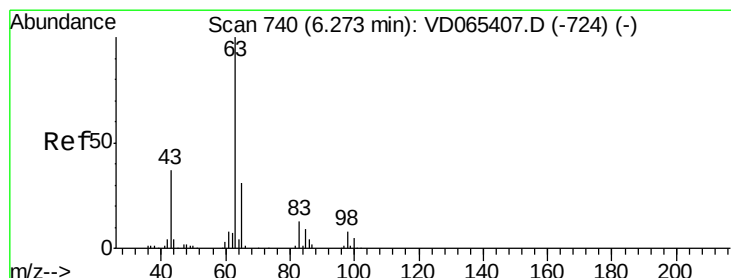
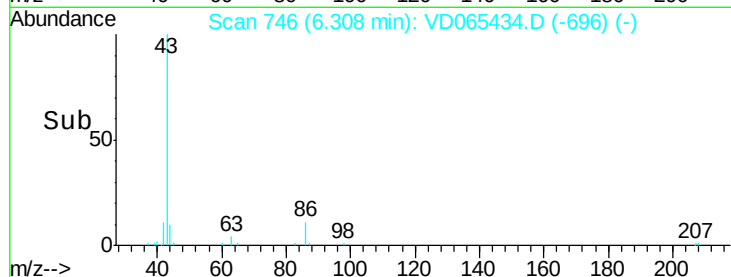
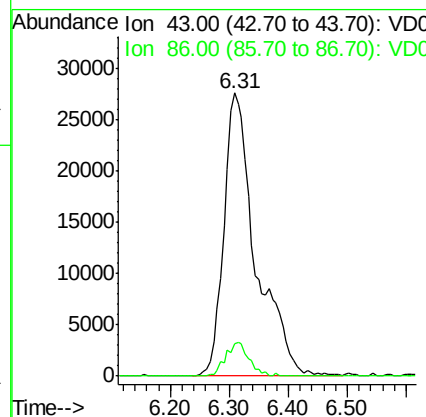
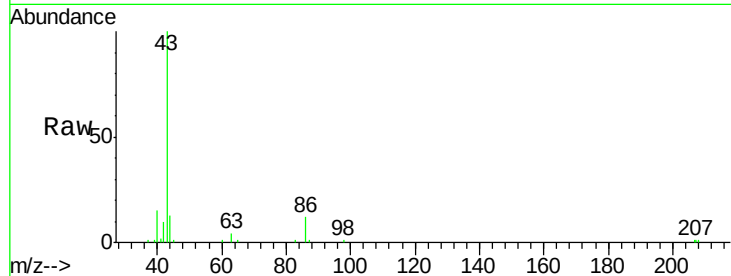
Ion Ratio Lower Upper

43 100

86 11.5 8.9 13.3

Manual Integrations  
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MMDadoda  
3/6/2020 11:17:33 AM



#24

1,1-Dichloroethane

Concen: 4.255 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

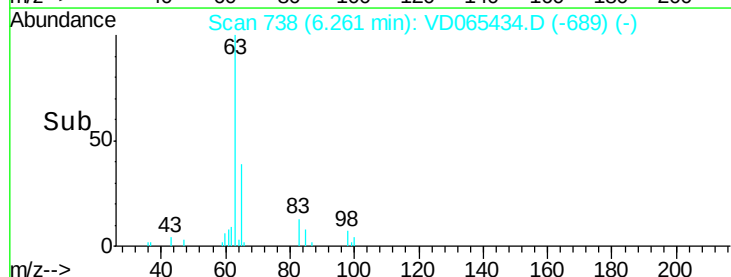
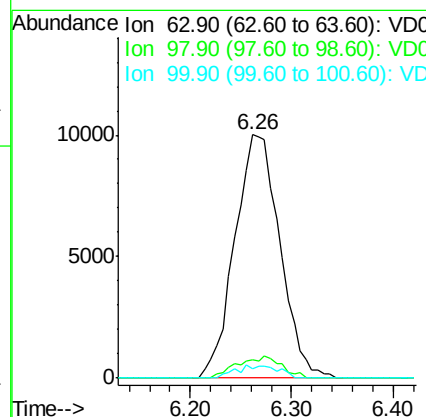
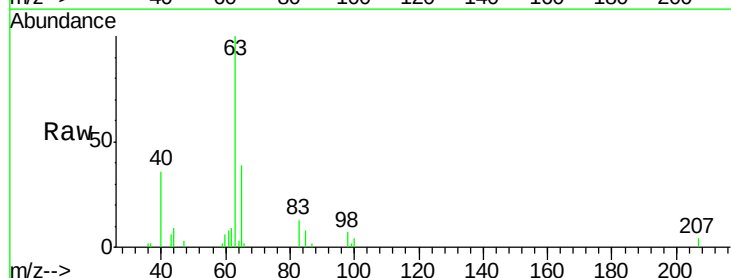
Tgt Ion: 63 Resp: 30916

Ion Ratio Lower Upper

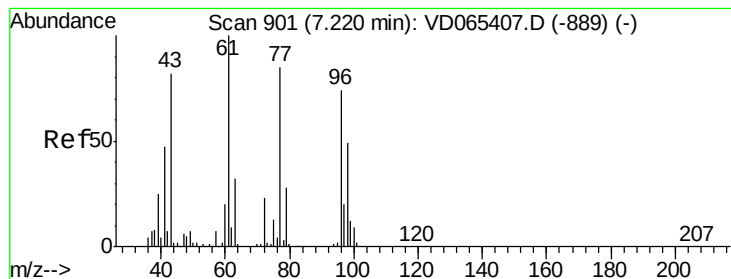
63 100

98 7.4 4.2 12.6

100 3.9 2.4 7.2







#25

2-Butanone

Concen: 18.730 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion: 43 Resp: 18912

Ion Ratio Lower Upper

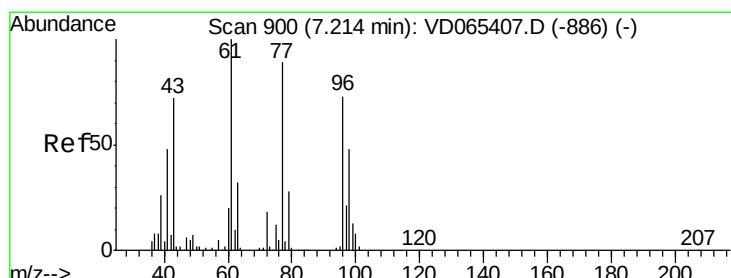
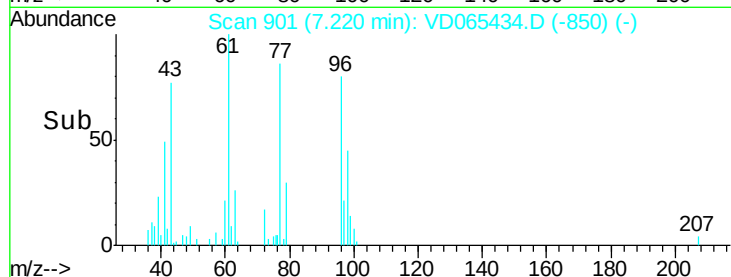
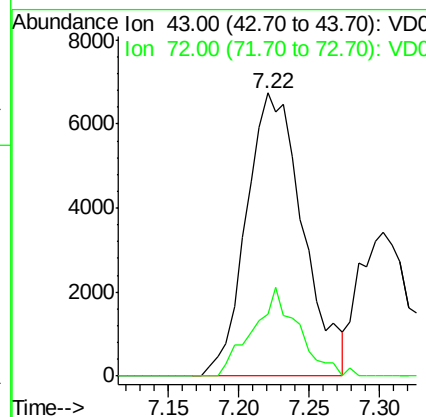
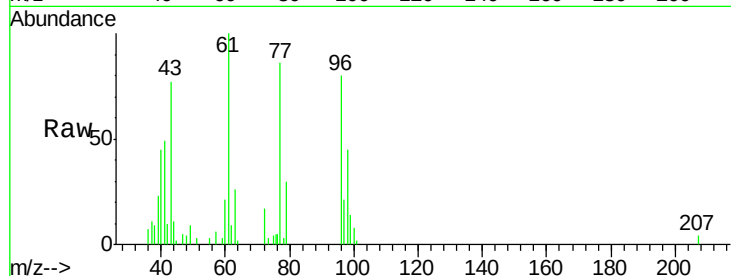
43 100

72 21.8 22.3 33.5#

Manual Integrations  
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MMDadoda

3/6/2020 11:17:33 AM



#26

2,2-Dichloropropane

Concen: 4.009 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065434.D

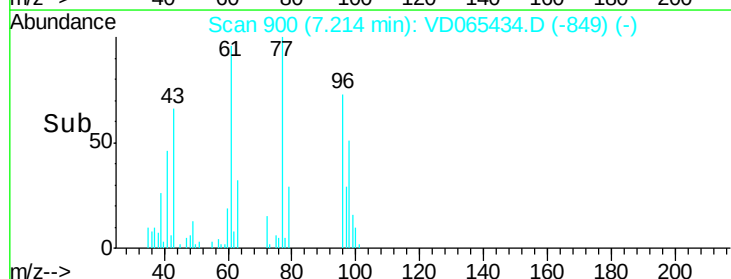
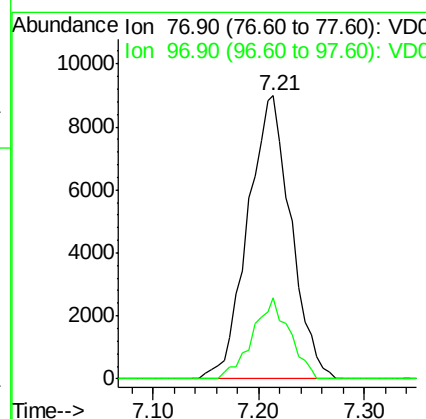
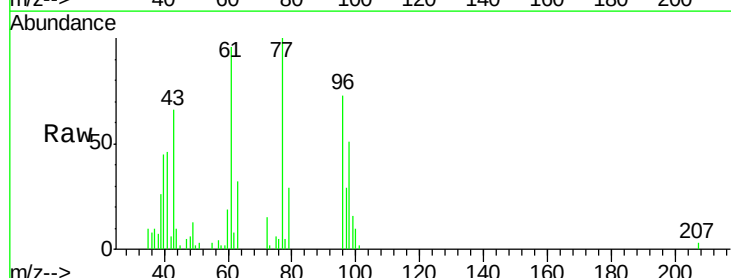
Acq: 05 Mar 2020 16:37

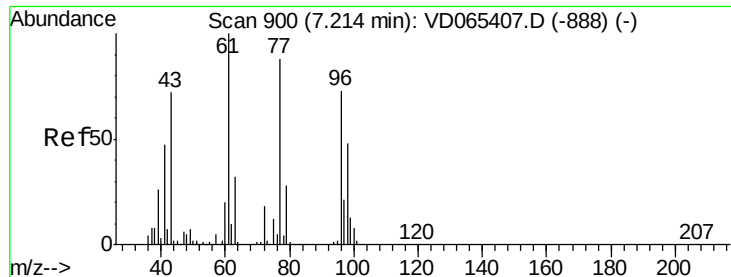
Tgt Ion: 77 Resp: 25451

Ion Ratio Lower Upper

77 100

97 24.5 11.8 35.4





#27

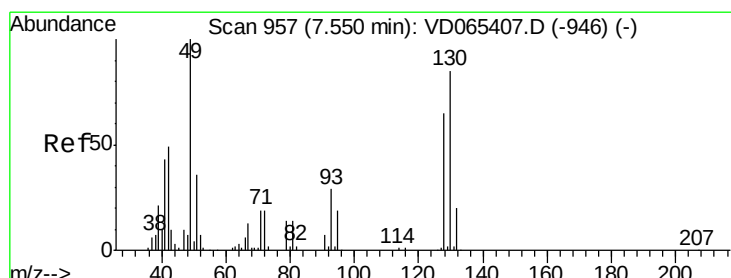
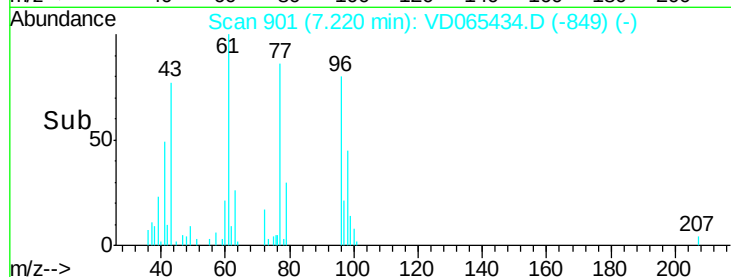
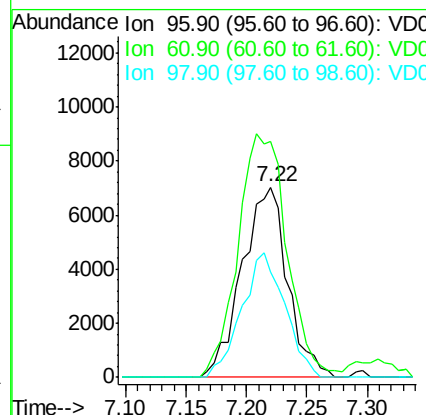
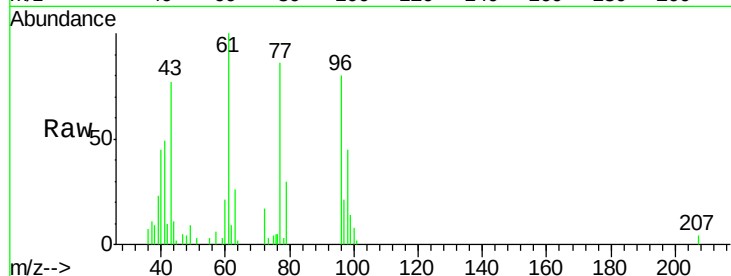
cis-1,2-Dichloroethene  
Concen: 4.093 ug/l  
RT: 7.22 min Scan# 901  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 138.1 | 0.0   | 280.4 |
| 98      | 62.0  | 0.0   | 132.6 |

Manual Integrations  
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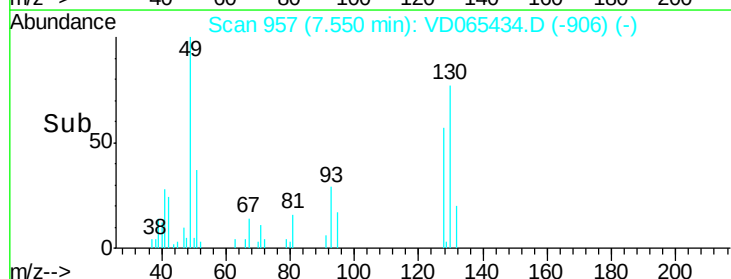
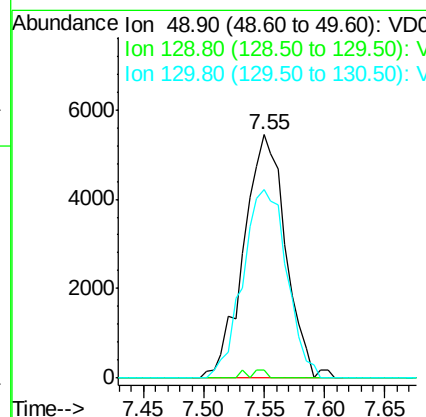
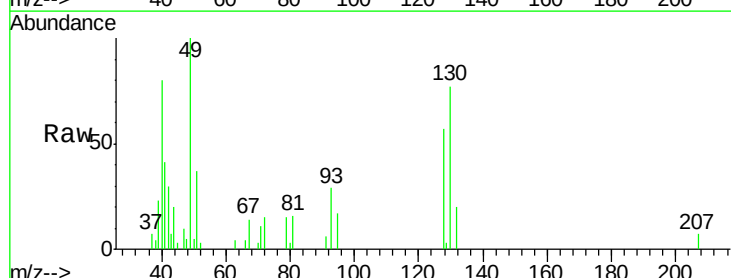
MMDadoda  
3/6/2020 11:17:33 AM

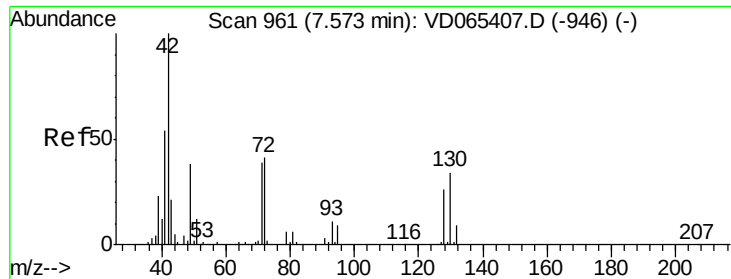


#28

Bromochloromethane  
Concen: 4.533 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 1.5   | 0.0   | 4.6   |
| 130     | 81.3  | 66.6  | 100.0 |





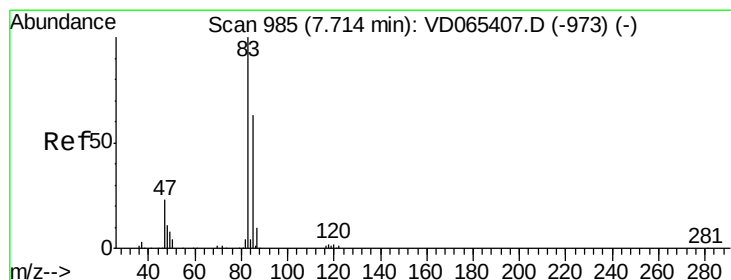
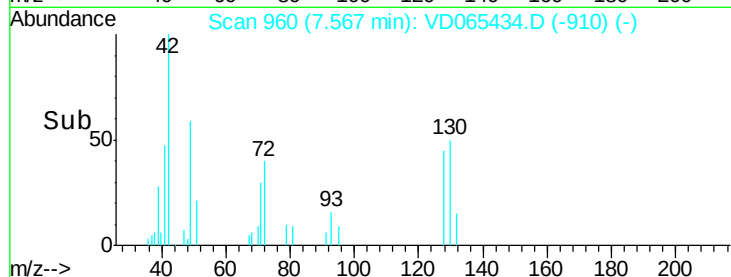
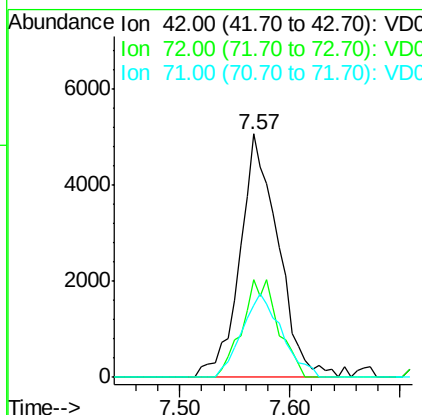
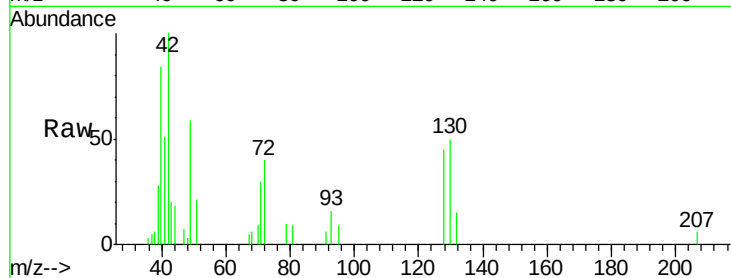
#29  
Tetrahydrofuran  
Concen: 19.097 ug/l  
RT: 7.57 min Scan# 960  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 42    | Resp: | 12314 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 38.2  | 33.0  | 49.6  |
| 71        | 35.6  | 32.0  | 48.0  |

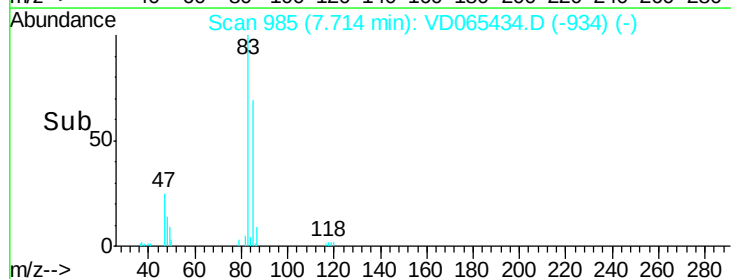
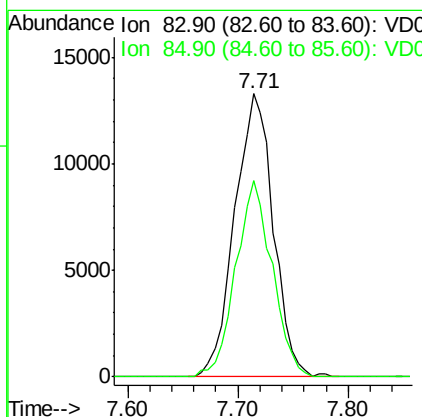
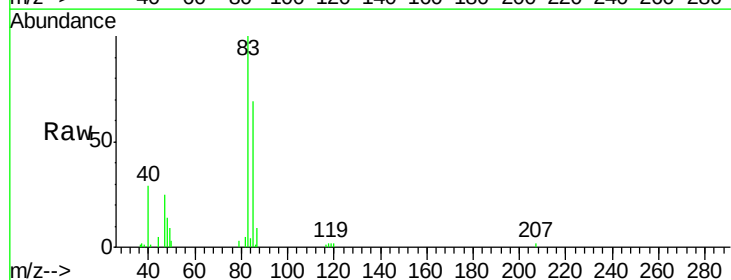
Manual Integrations  
APPROVED

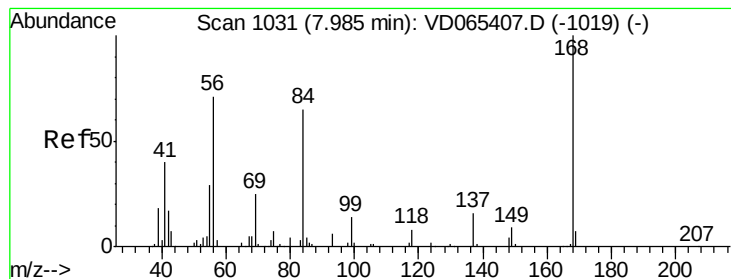
MMDadoda  
3/6/2020 11:17:33 AM



#30  
Chloroform  
Concen: 4.487 ug/l  
RT: 7.71 min Scan# 985  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 32581 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 69.5  | 50.3  | 75.5  |





#31

Cyclohexane

Concen: 4.395 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

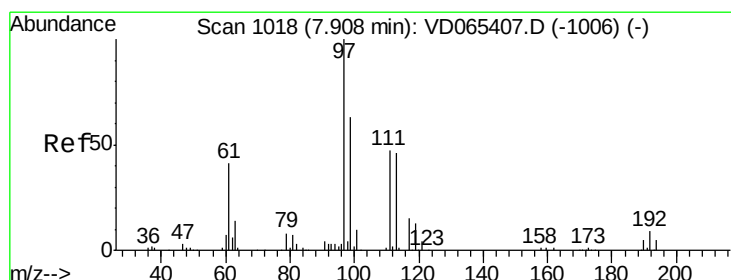
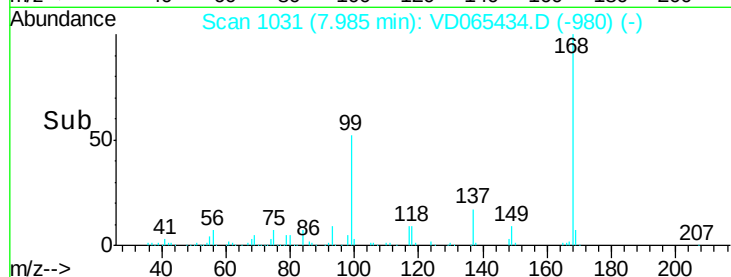
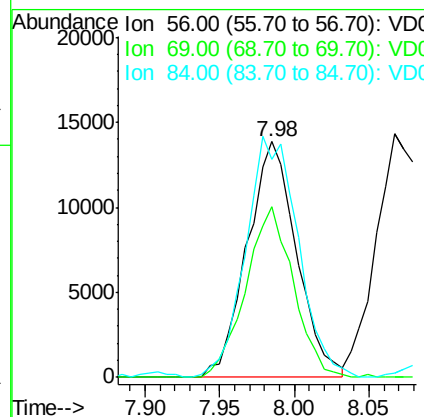
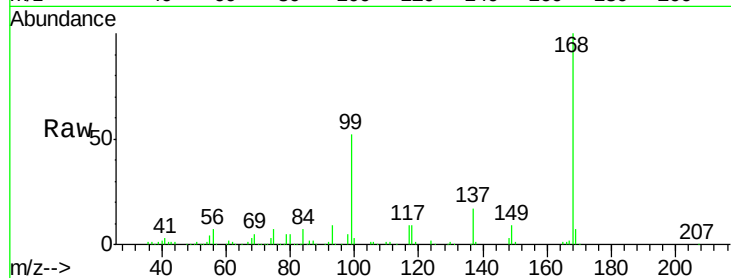
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 56      | 100  |       | 31932 |       |       |
| 69      | 72.7 | 28.3  | 42.5# |       |       |
| 84      | 92.7 | 73.1  | 109.7 |       |       |

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MMDadoda  
3/6/2020 11:17:33 AM



#32

1,1,1-Trichloroethane

Concen: 4.261 ug/l

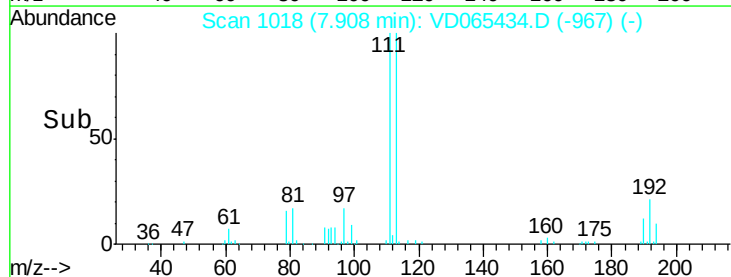
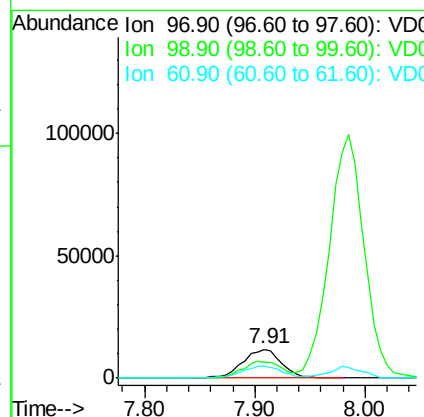
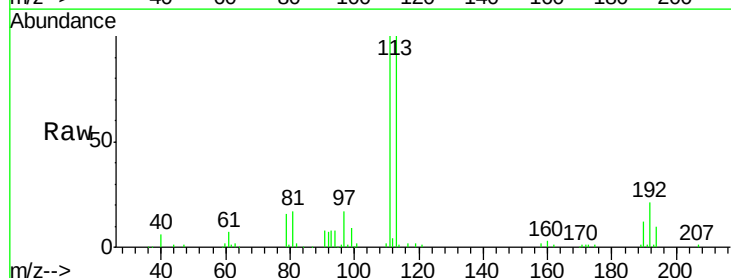
RT: 7.91 min Scan# 1018

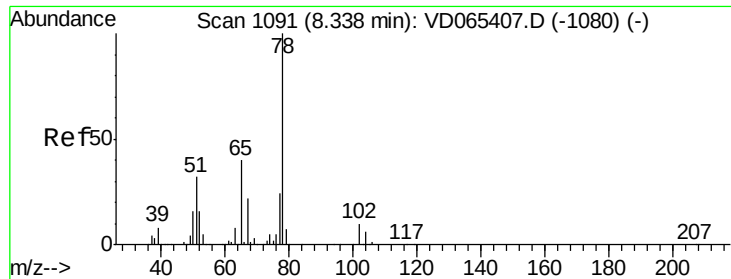
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 97      | 100  |       | 28597 |       |       |
| 99      | 58.9 | 50.9  | 76.3  |       |       |
| 61      | 44.3 | 33.2  | 49.8  |       |       |





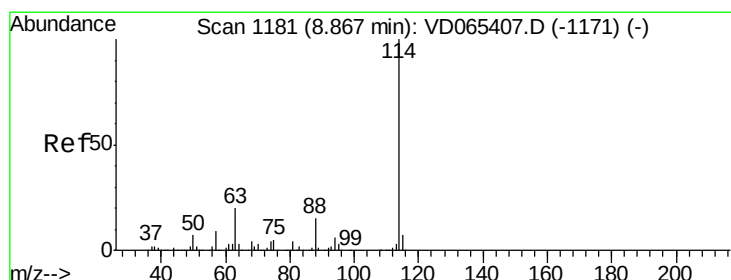
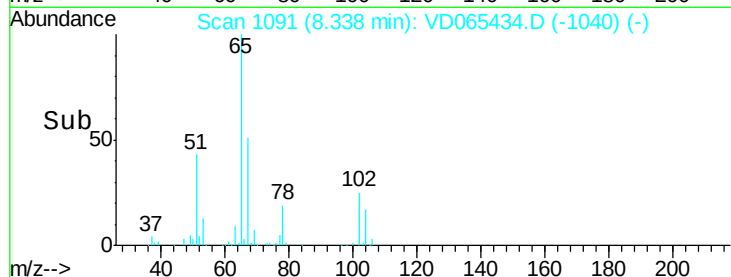
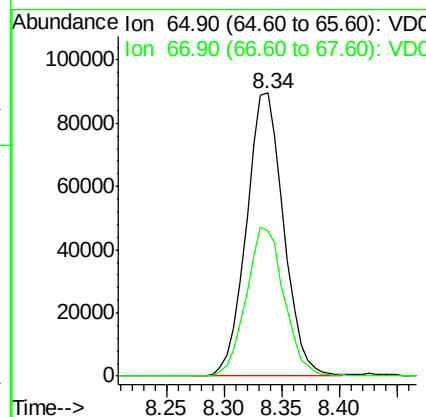
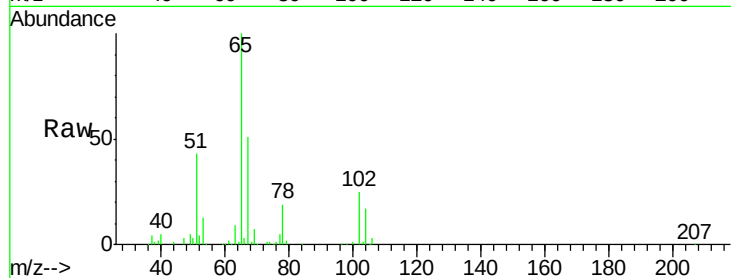
#33  
 1,2-Dichloroethane-d4  
 Concen: 54.848 ug/l  
 RT: 8.34 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 200660 |       |       |
| 67      | 53.4  | 0.0    | 108.0 |       |

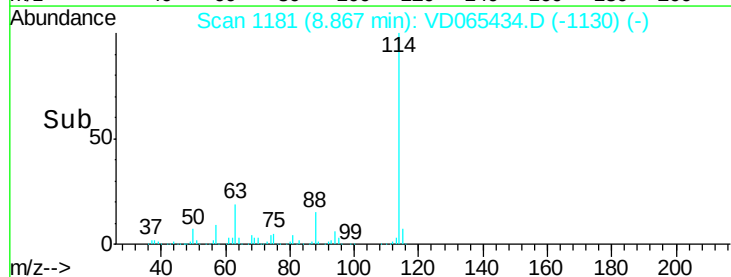
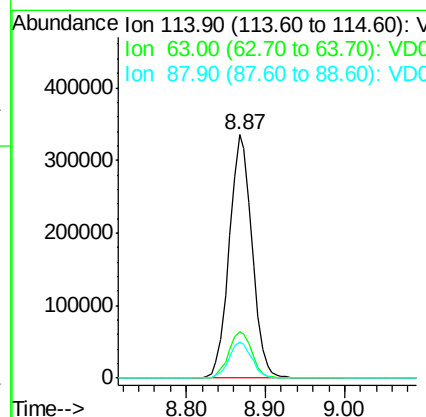
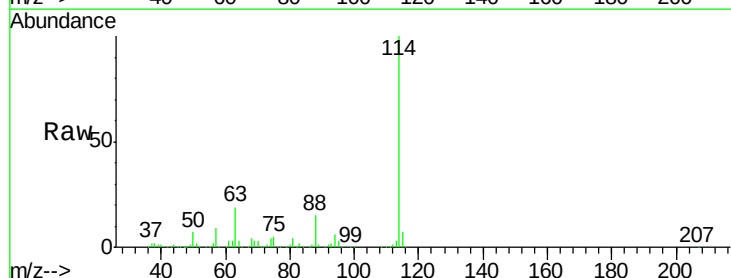
Manual Integrations  
 APPROVED

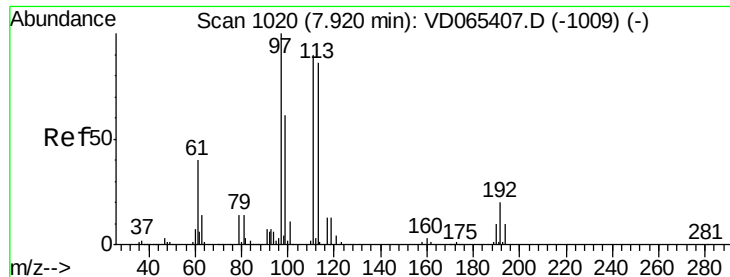
MMDadoda  
 3/6/2020 11:17:33 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 665775 |       |       |
| 63      | 19.2  | 0.0    | 39.6  |       |
| 88      | 14.7  | 0.0    | 30.4  |       |





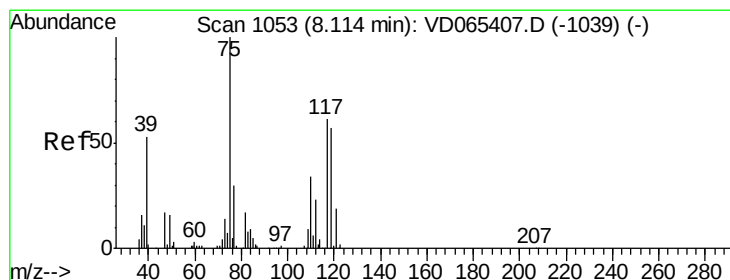
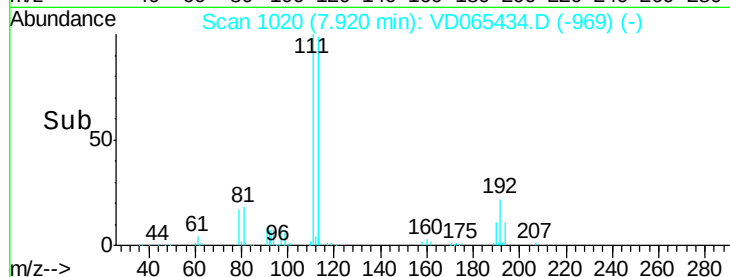
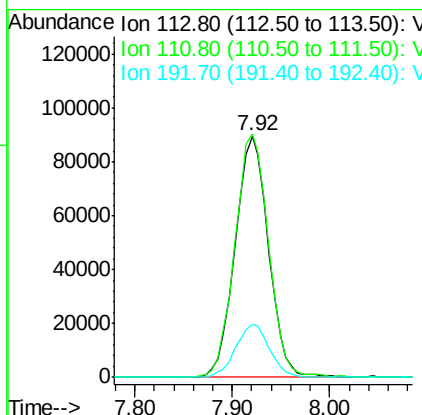
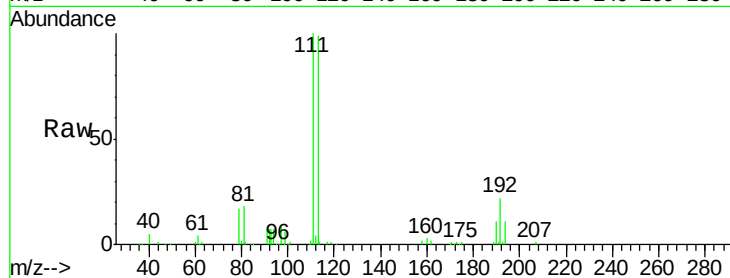
#35  
 Dibromofluoromethane  
 Concen: 51.484 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 82.1  | 123.1 |
| 192     | 22.2  | 17.2  | 25.8  |

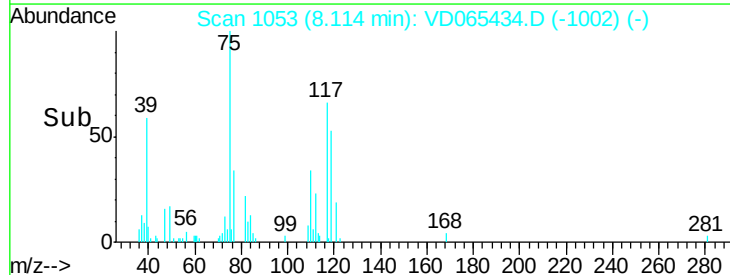
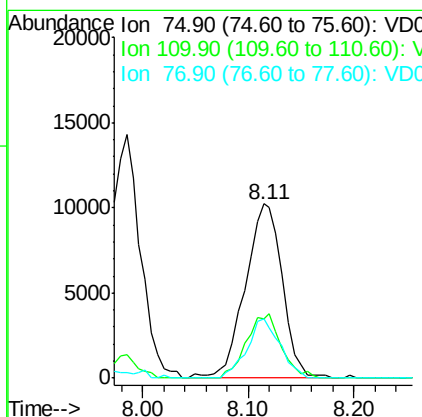
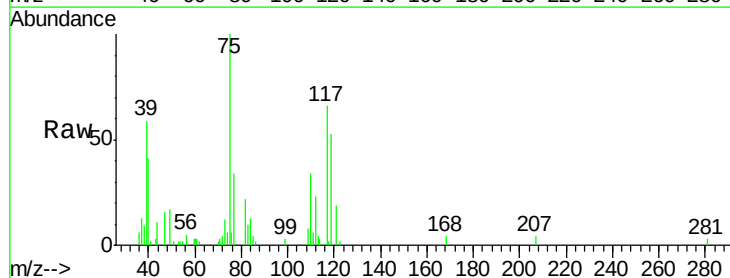
Manual Integrations  
 APPROVED

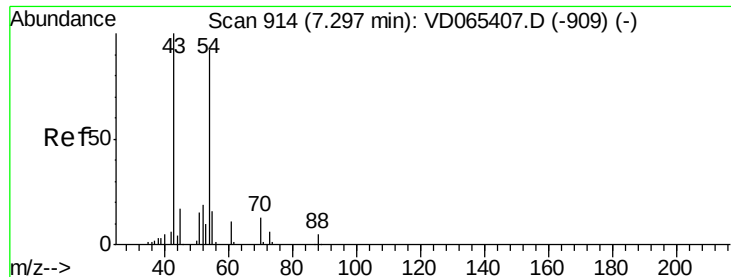
MMDadoda  
 3/6/2020 11:17:33 AM



#36  
 1,1-Dichloropropene  
 Concen: 3.915 ug/l  
 RT: 8.11 min Scan# 1053  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 34.5  | 18.1  | 54.1  |
| 77      | 30.1  | 25.2  | 37.8  |





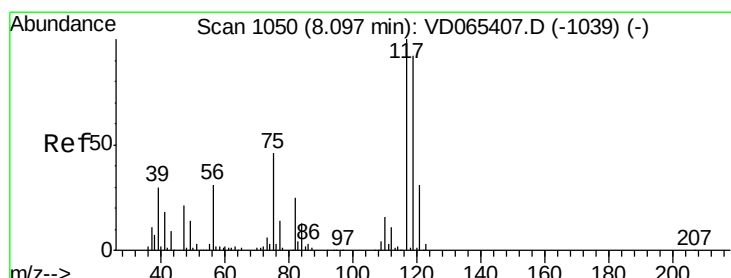
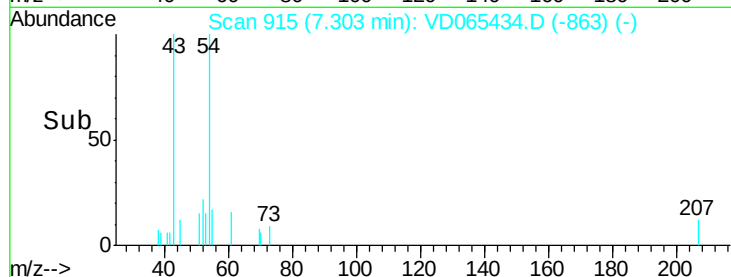
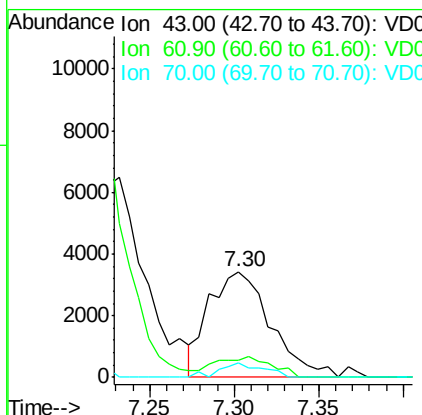
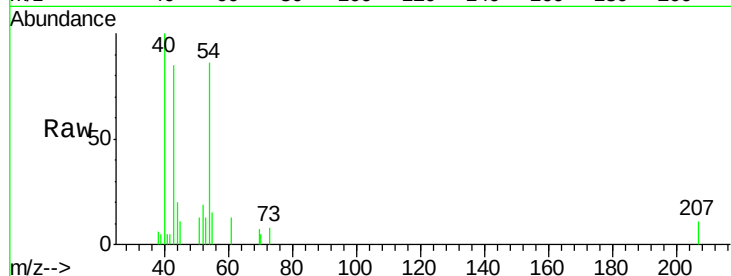
#37  
Ethyl Acetate  
Concen: 3.521 ug/l  
RT: 7.30 min Scan# 915  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 17.5  | 11.4  | 17.0# |
| 70      | 9.6   | 9.0   | 13.4  |

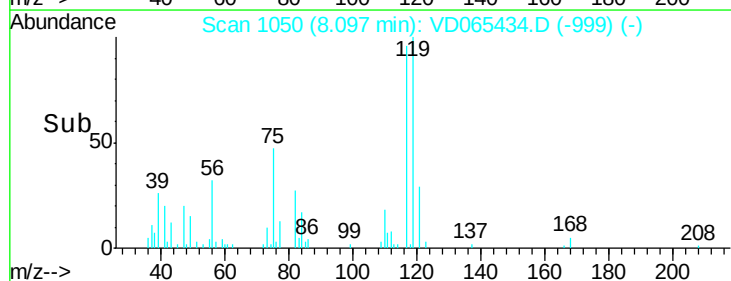
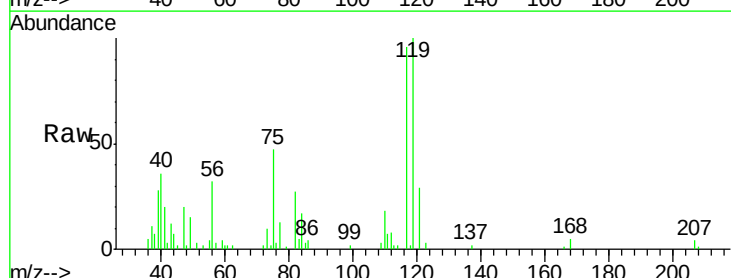
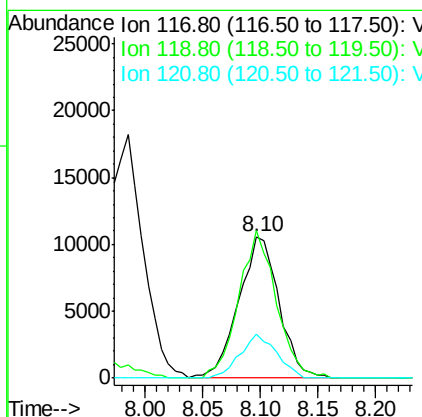
Manual Integrations  
APPROVED

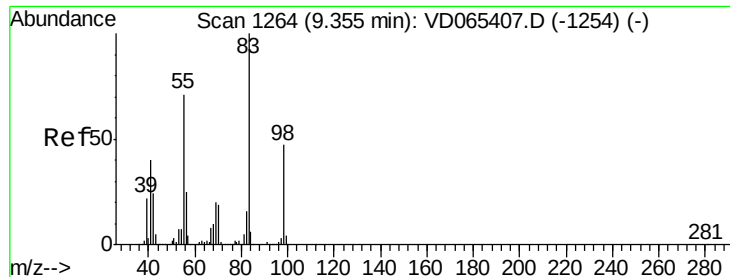
MMDadoda  
3/6/2020 11:17:33 AM



#38  
Carbon Tetrachloride  
Concen: 3.883 ug/l  
RT: 8.10 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 104.7 | 73.3  | 109.9 |
| 121     | 30.7  | 25.0  | 37.4  |





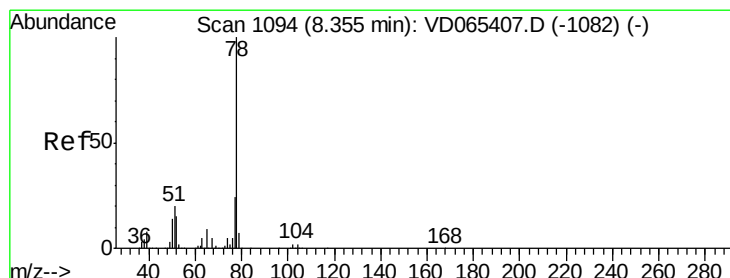
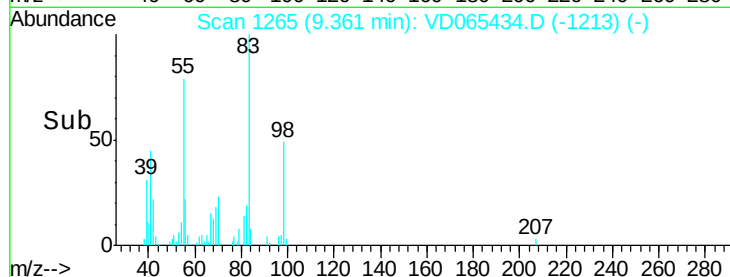
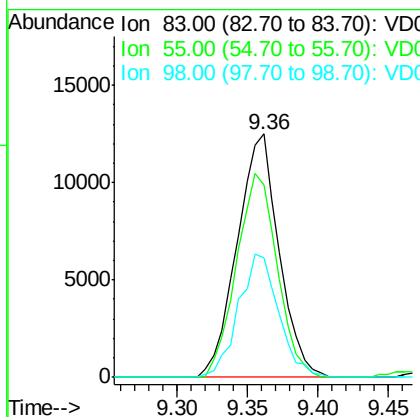
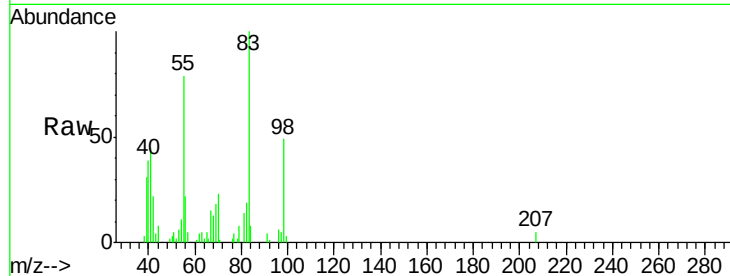
#39  
Methylvlcyclohexane  
Concen: 3.370 ug/l  
RT: 9.36 min Scan# 1265  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 79.1  | 57.1  | 85.7  |
| 98      | 49.0  | 37.8  | 56.8  |

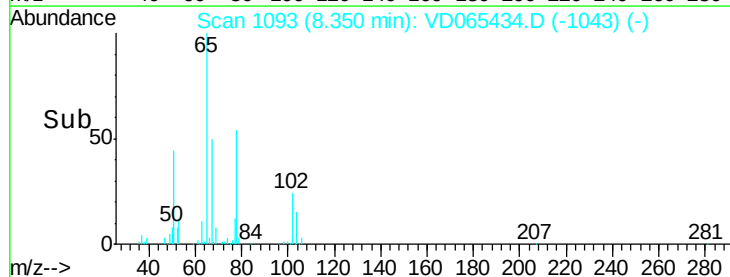
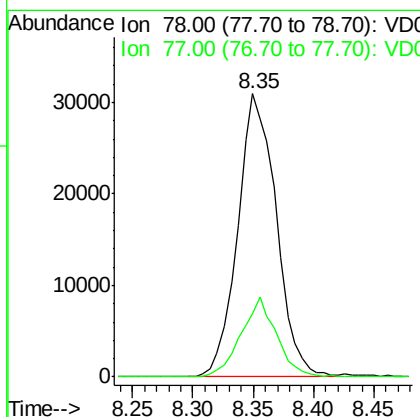
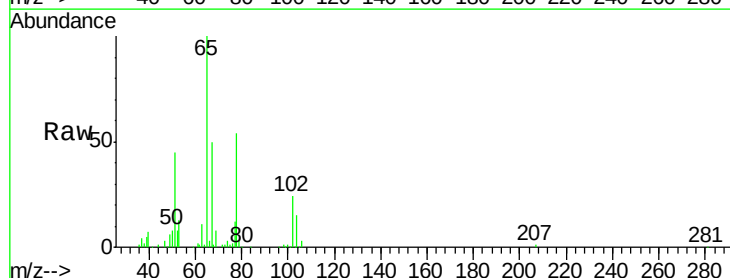
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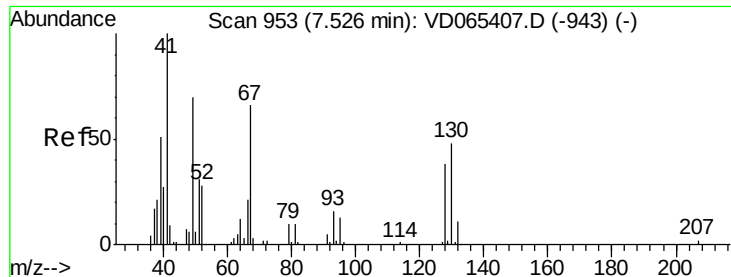


#40  
Benzene  
Concen: 3.868 ug/l  
RT: 8.35 min Scan# 1093  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 22.4  | 19.4  | 29.0  |







#41

Methacrylonitrile

Concen: 3.716 ug/l

RT: 7.52 min Scan# 952

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

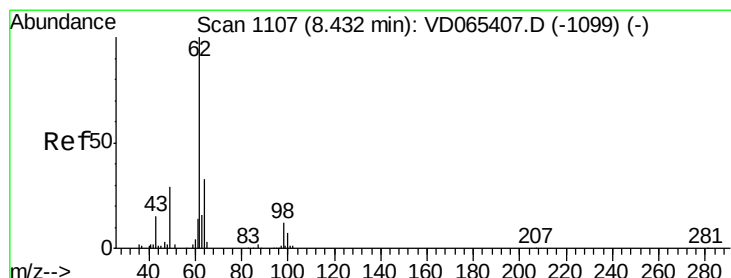
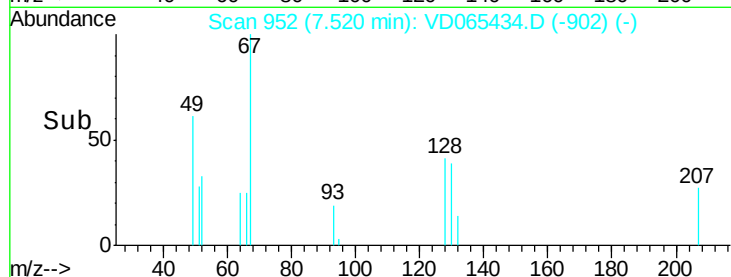
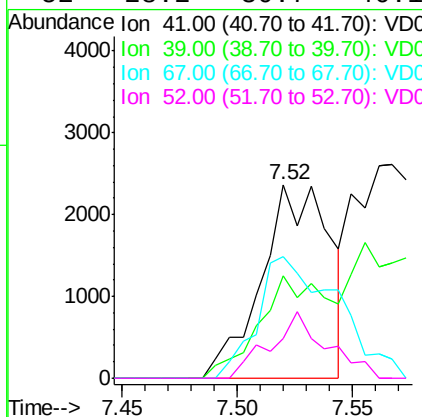
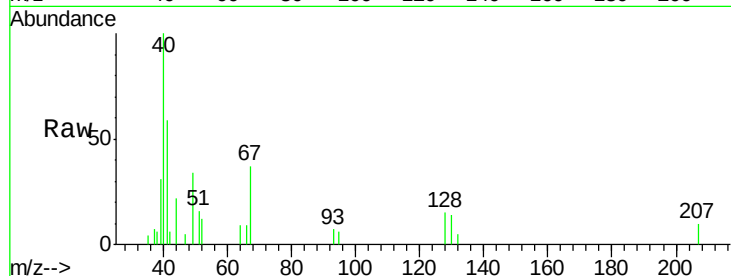
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 4847  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 54.5  | 55.0  | 82.6# |
| 67       | 74.1  | 70.3  | 105.5 |
| 52       | 28.2  | 30.7  | 46.1# |

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#42

1,2-Dichloroethane

Concen: 4.497 ug/l

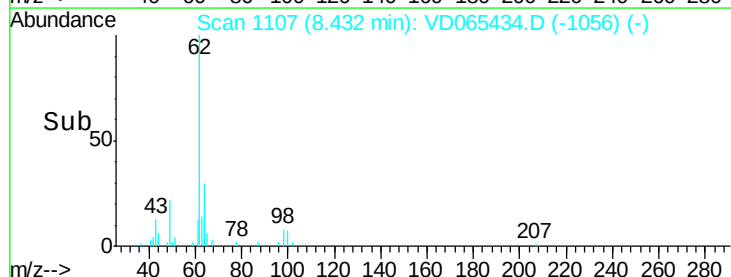
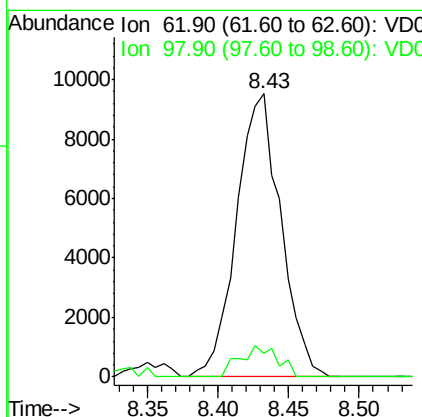
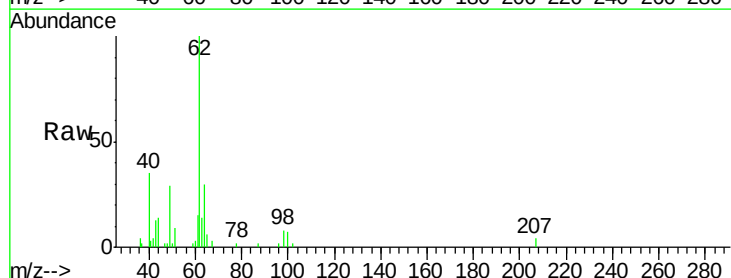
RT: 8.43 min Scan# 1107

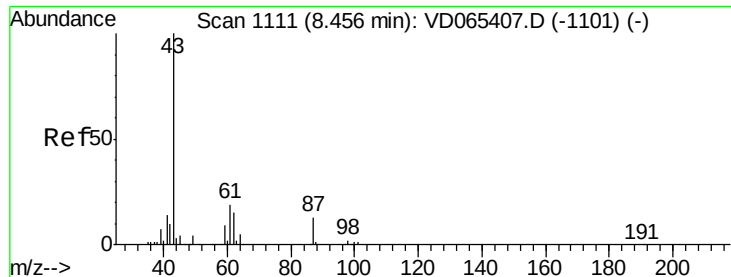
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 20951 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.3   | 0.0   | 21.4  |





#43

Isopropyl Acetate

Concen: 3.947 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

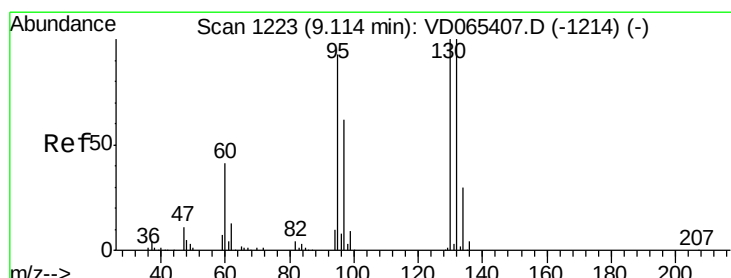
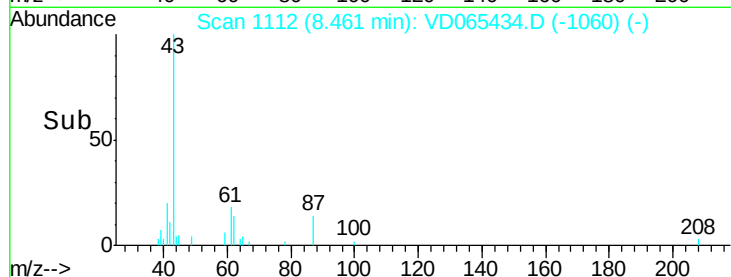
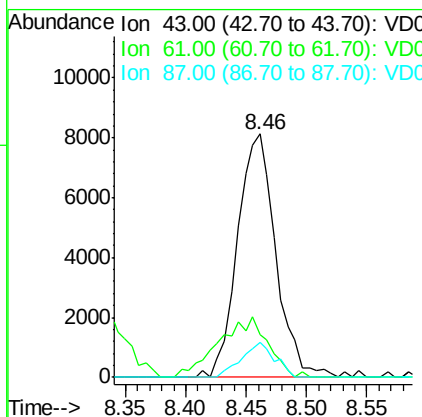
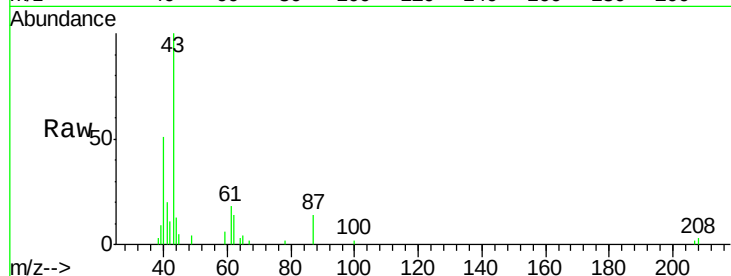
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 17977 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 31.9  | 25.0  | 37.6  |
| 87       | 12.5  | 11.0  | 16.4  |

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#44

Trichloroethene

Concen: 3.955 ug/l

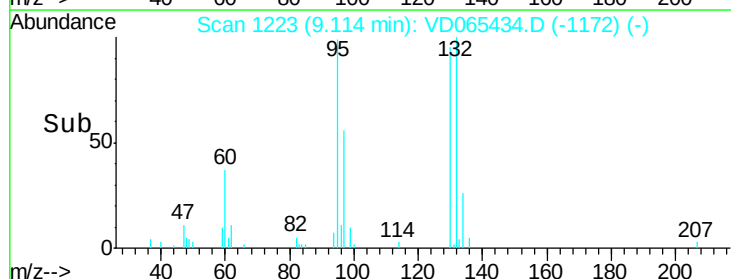
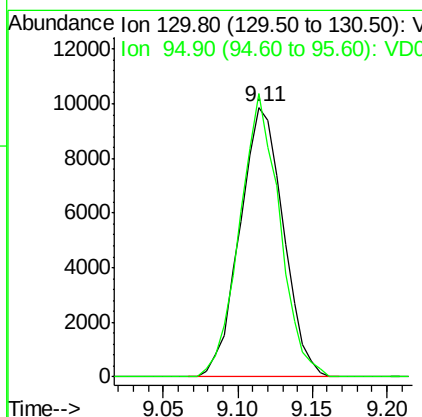
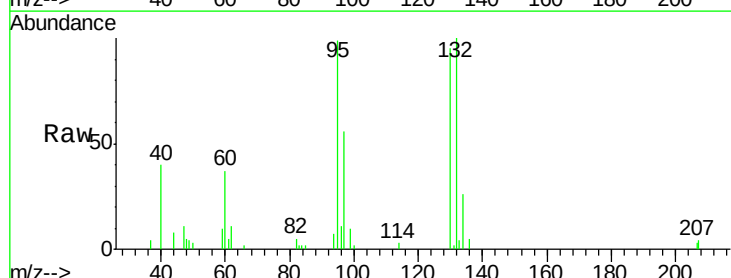
RT: 9.11 min Scan# 1223

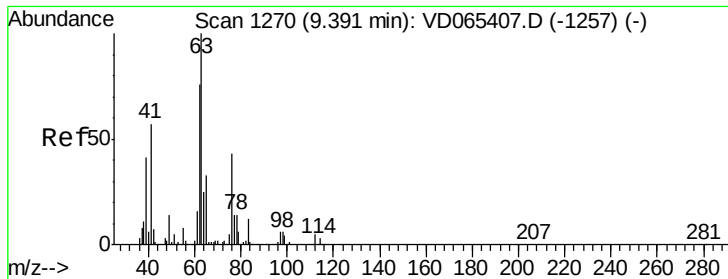
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 19932 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 104.9 | 0.0   | 186.0 |





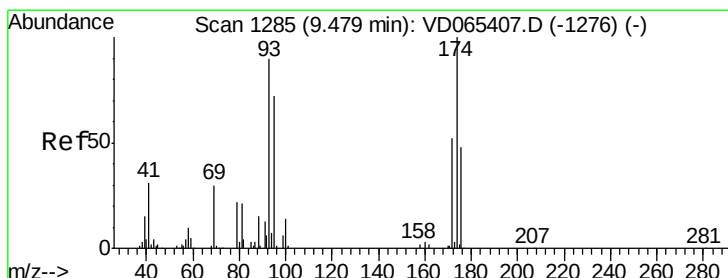
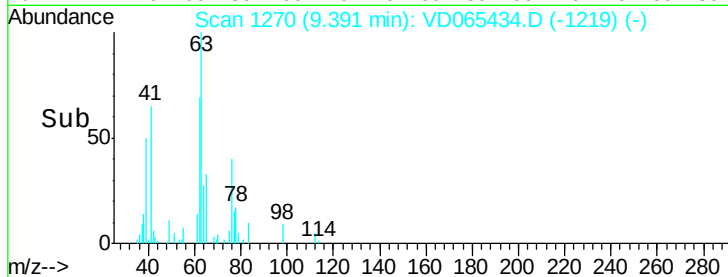
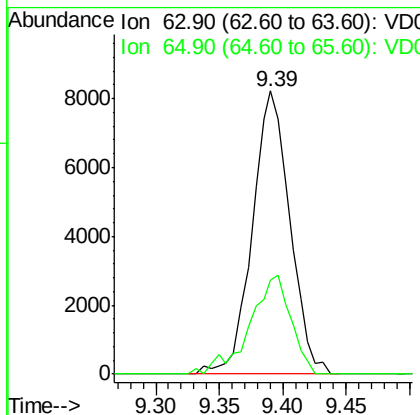
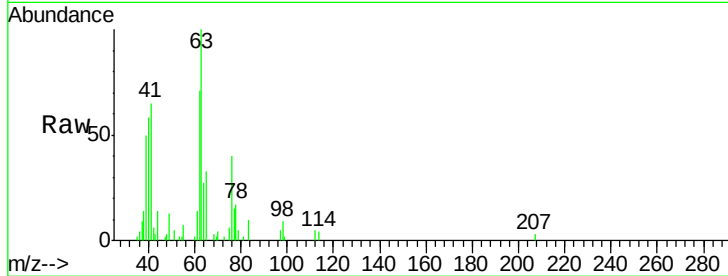
#45  
 1,2-Dichloropropane  
 Concen: 3.918 ug/l  
 RT: 9.39 min Scan# 1270  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 33.4  | 26.4  | 39.6  |

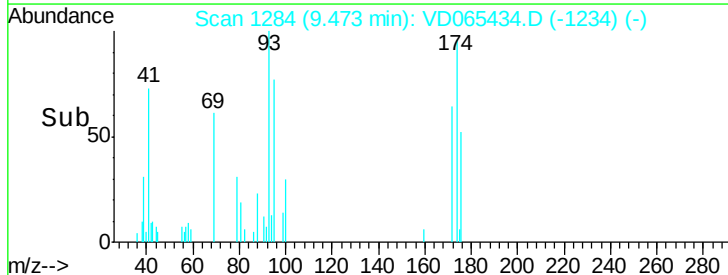
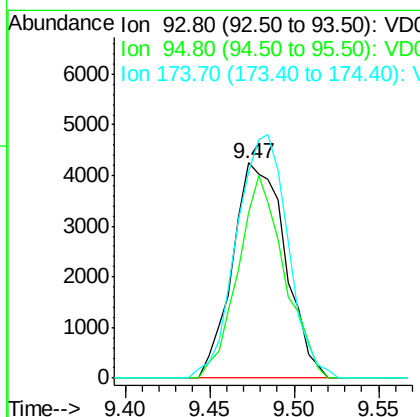
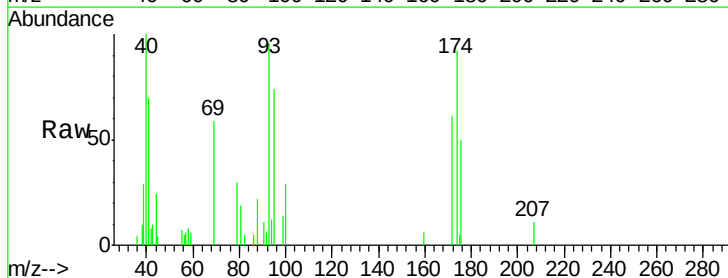
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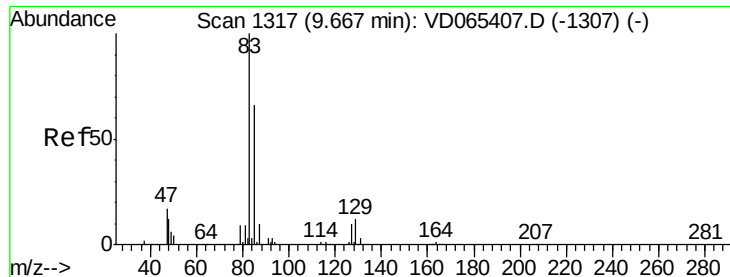
MMDadoda  
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#46  
 Dibromomethane  
 Concen: 4.085 ug/l  
 RT: 9.47 min Scan# 1284  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 83.2  | 65.0  | 97.6  |
| 174     | 110.8 | 88.3  | 132.5 |





#47

Bromodichloromethane

Concen: 4.115 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

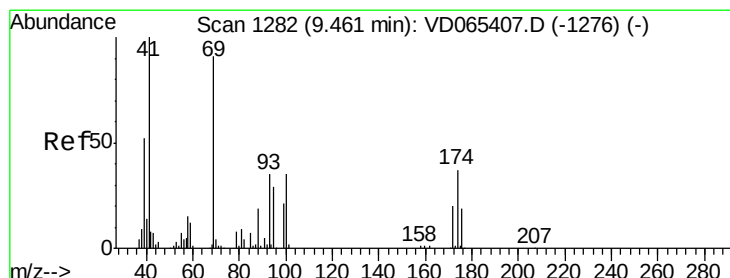
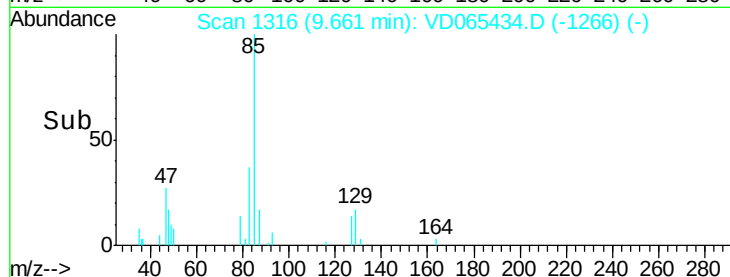
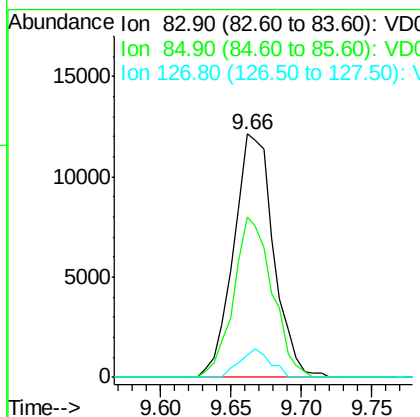
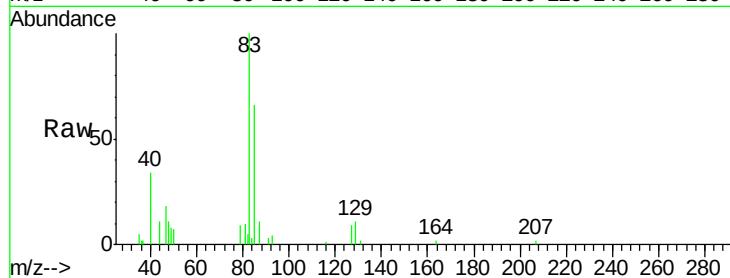
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 23999 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 65.8  | 52.8  | 79.2  |
| 127      | 9.2   | 8.0   | 12.0  |

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#48

Methyl methacrylate

Concen: 3.715 ug/l

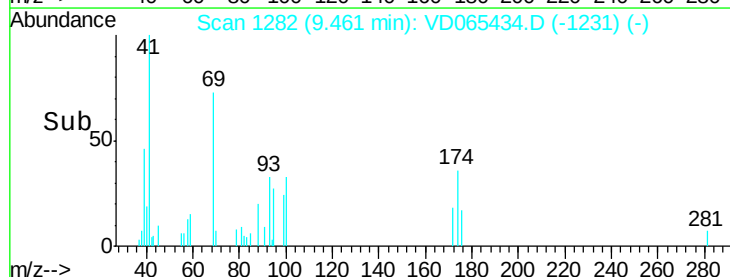
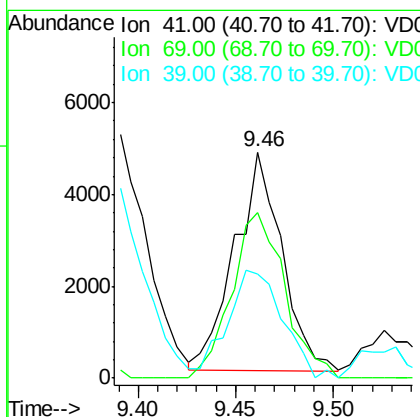
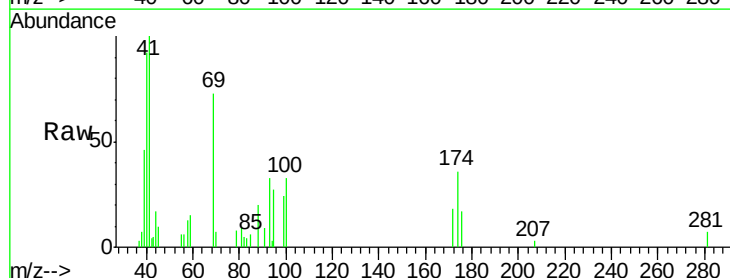
RT: 9.46 min Scan# 1282

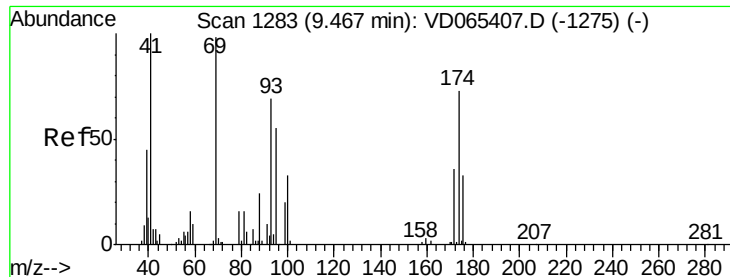
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 7959  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 85.5  | 72.5  | 108.7 |
| 39       | 57.4  | 41.6  | 62.4  |





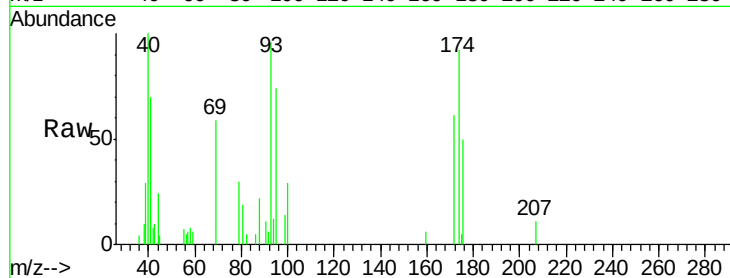
#49  
1,4-Dioxane  
Concen: 74.985 ug/l  
RT: 9.47 min Scan# 1284  
Delta R.T. 0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

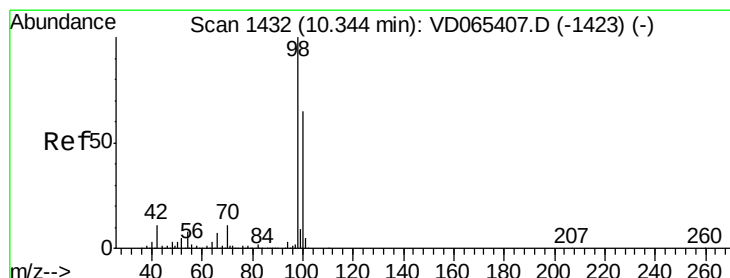
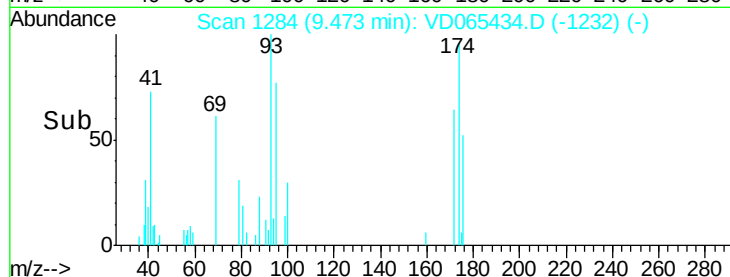
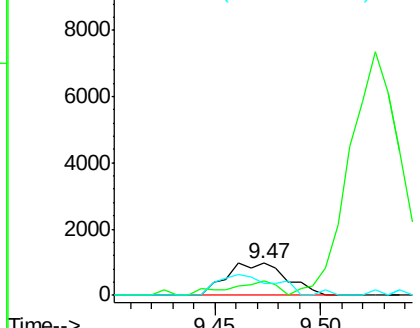
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 35.0  | 24.5  | 36.7  |
| 58      | 59.3  | 54.5  | 81.7  |

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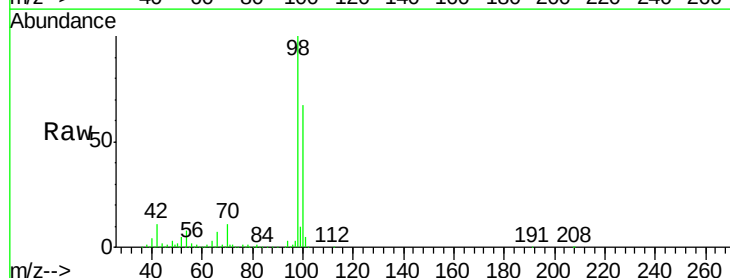


Abundance Ion 88.00 (87.70 to 88.70): VDC  
Ion 43.00 (42.70 to 43.70): VDC  
Ion 58.00 (57.70 to 58.70): VDC

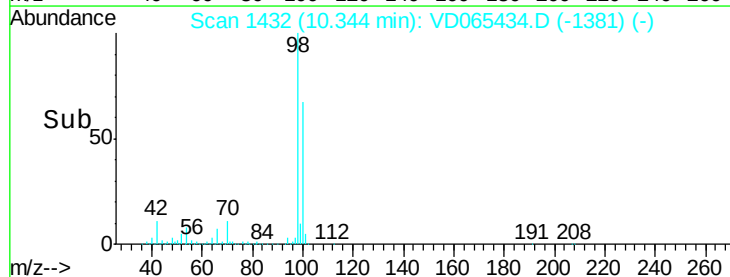
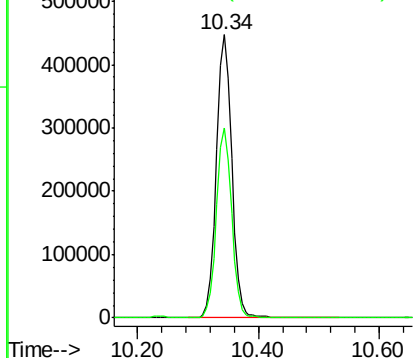


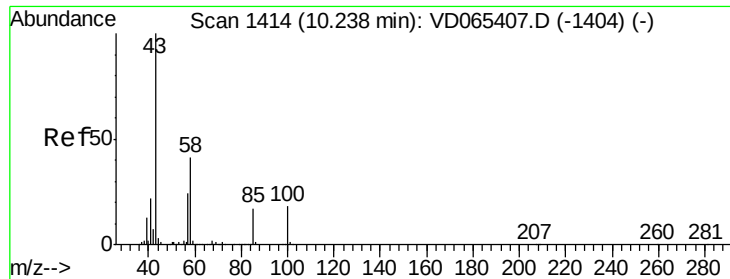
#50  
Toluene-d8  
Concen: 49.832 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.1  | 52.8  | 79.2  |



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC





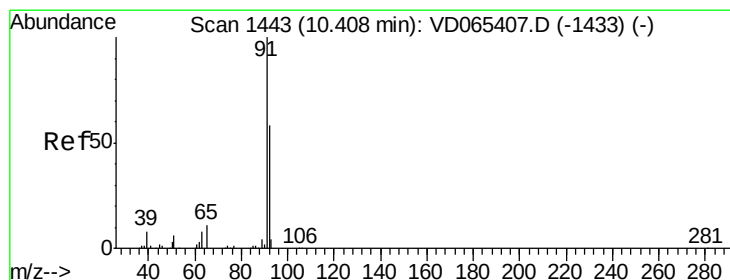
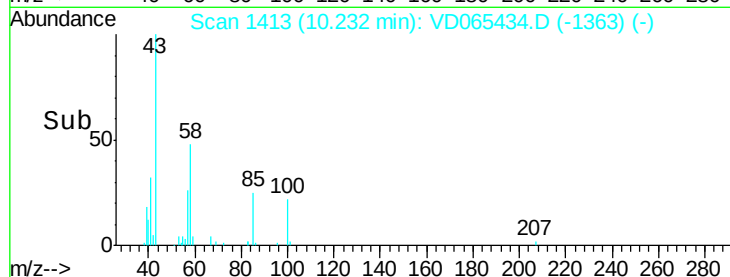
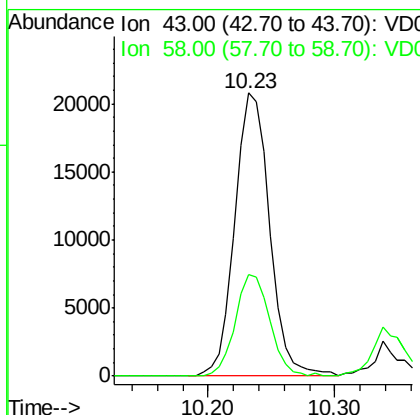
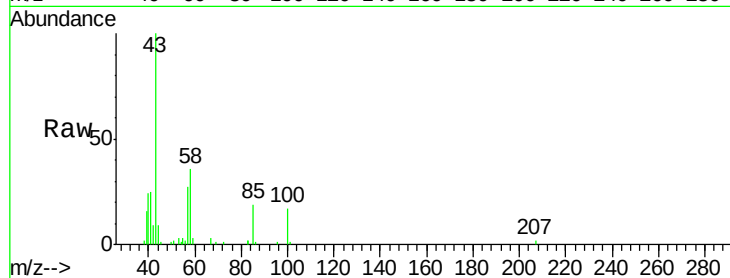
#51  
4-Methyl-2-Pentanone  
Concen: 17.254 ug/l  
RT: 10.23 min Scan# 1413  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion   | 43   | Resp  | 39545 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 43        | 100  |       |       |
| 58        | 35.6 | 31.8  | 47.6  |

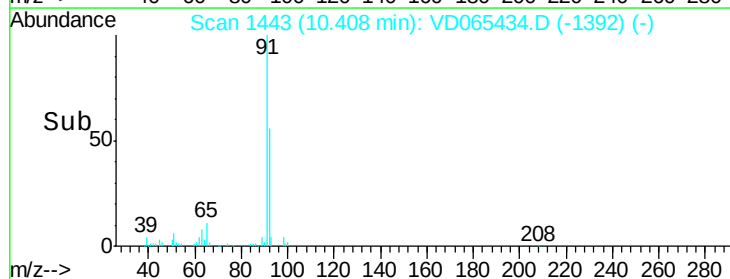
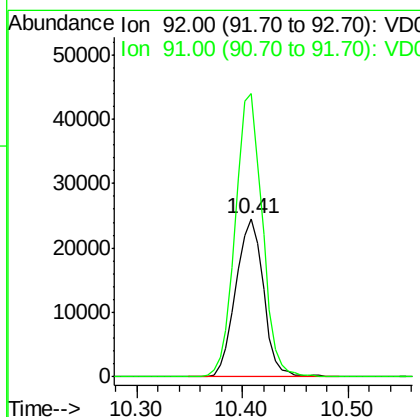
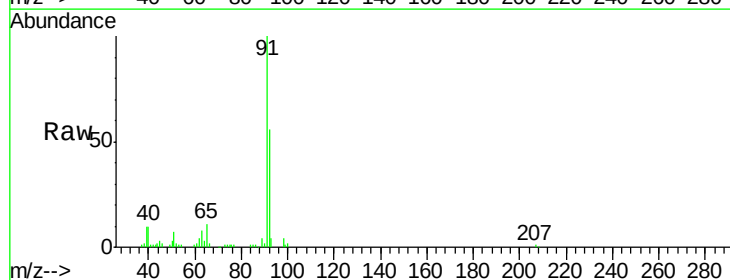
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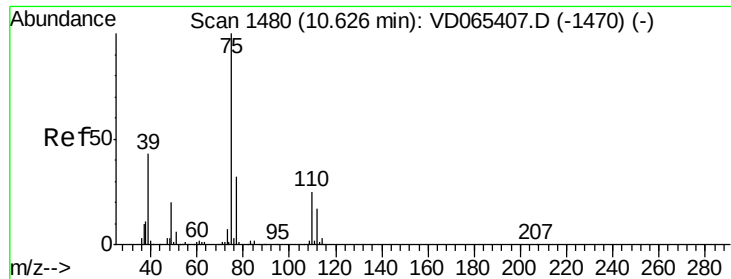
MMDadoda  
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#52  
Toluene  
Concen: 3.964 ug/l  
RT: 10.41 min Scan# 1443  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion   | 92    | Resp  | 44563 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 92        | 100   |       |       |
| 91        | 174.7 | 137.8 | 206.8 |





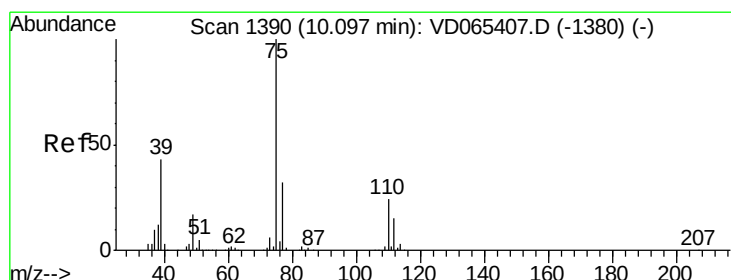
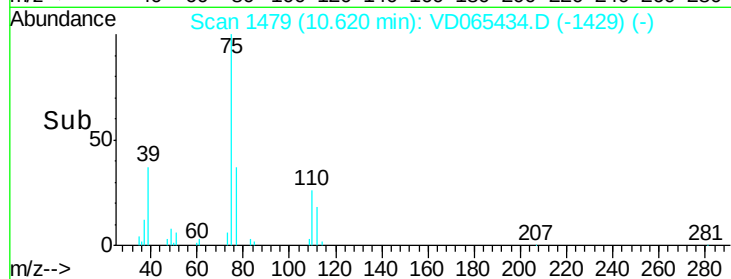
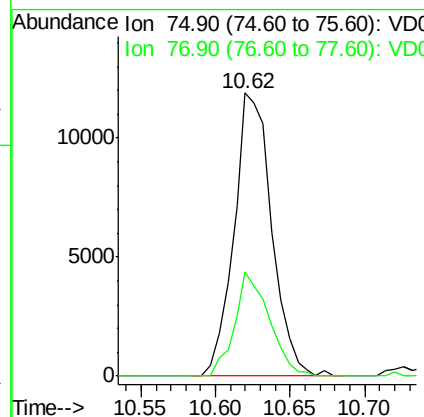
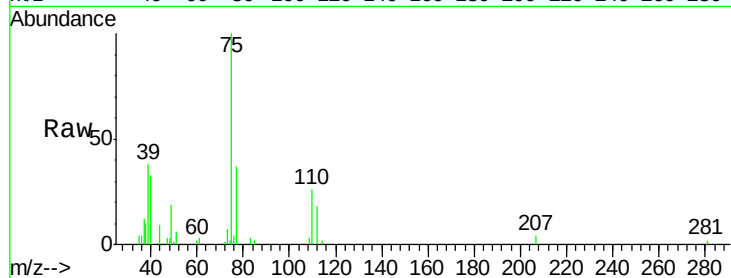
#53  
t-1,3-Dichloropropene  
Concen: 3.831 ug/l  
RT: 10.62 min Scan# 1479  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 37.0  | 25.4  | 38.2  |

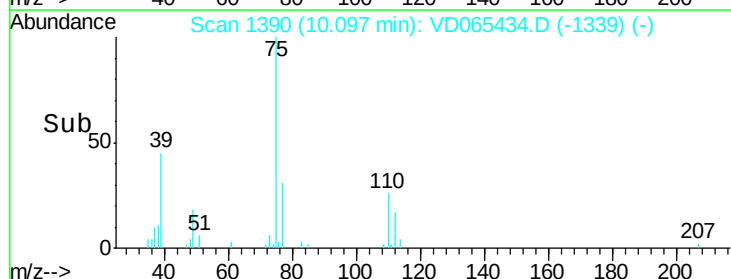
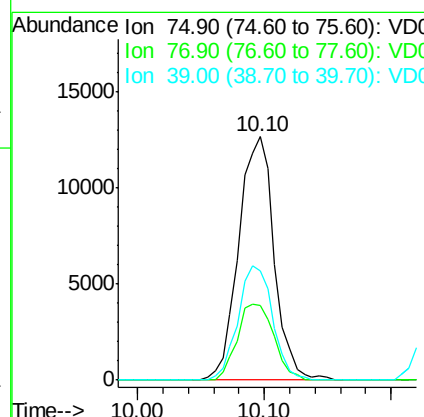
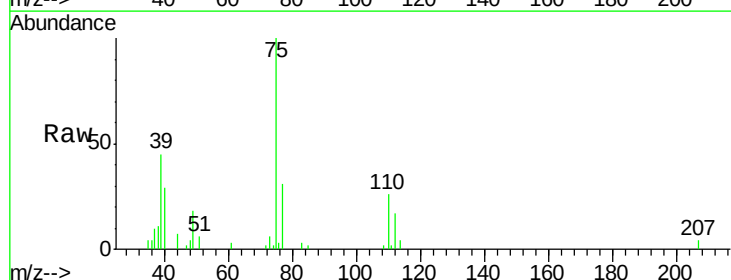
Manual Integrations  
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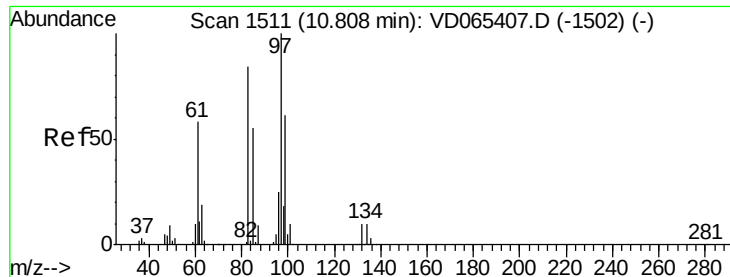
MMDadoda  
3/6/2020 11:17:33 AM



#54  
cis-1,3-Dichloropropene  
Concen: 3.712 ug/l  
RT: 10.10 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 30.5  | 25.3  | 37.9  |
| 39      | 44.9  | 34.6  | 52.0  |





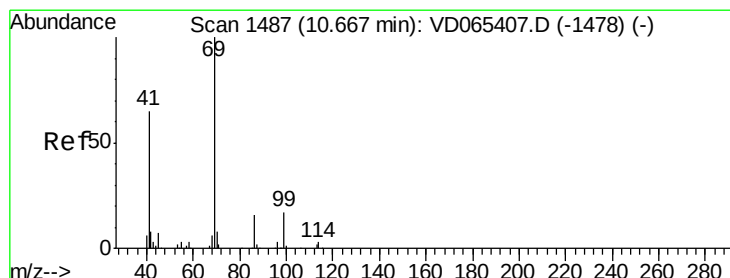
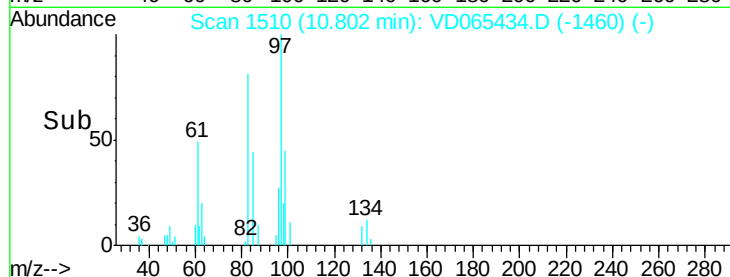
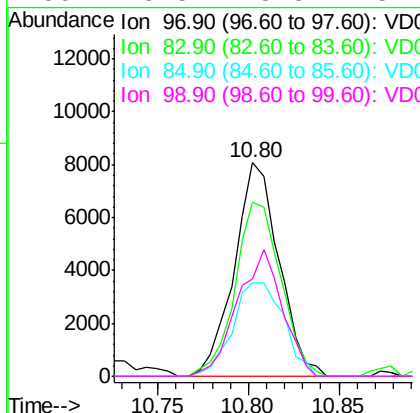
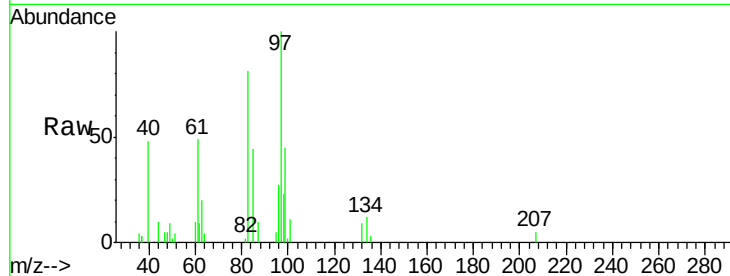
#55  
 1,1,2-Trichloroethane  
 Concen: 4.343 ug/l  
 RT: 10.80 min Scan# 1510  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 81.3  | 67.4  | 101.0 |
| 85      | 43.7  | 43.8  | 65.8# |
| 99      | 45.5  | 48.8  | 73.2# |

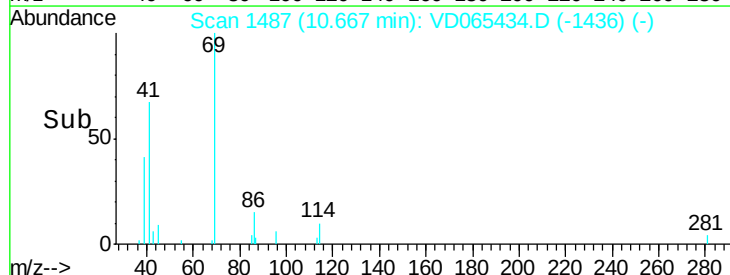
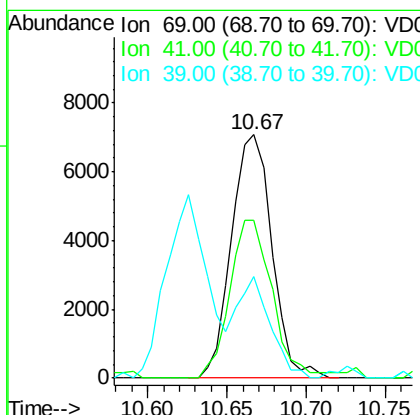
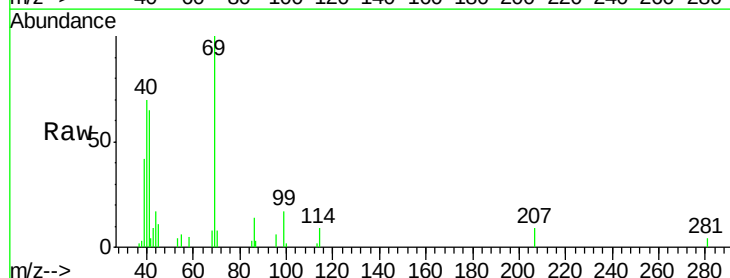
Manual Integrations  
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 3/6/2020 11:17:33 AM

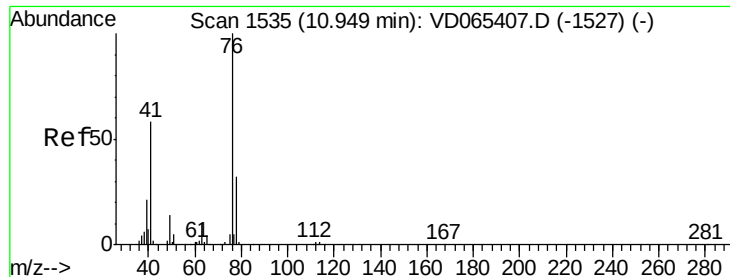


#56  
 Ethyl methacrylate  
 Concen: 3.498 ug/l  
 RT: 10.67 min Scan# 1487  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 67.7  | 53.0  | 79.6  |
| 39      | 34.4  | 26.0  | 39.0  |







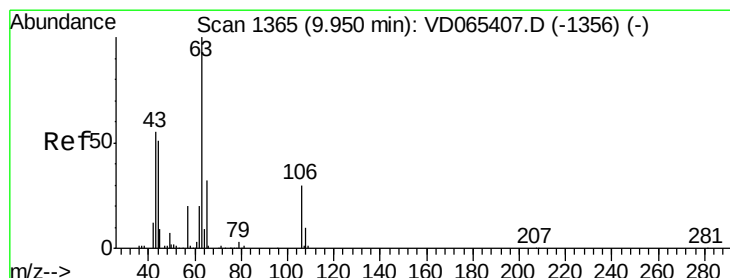
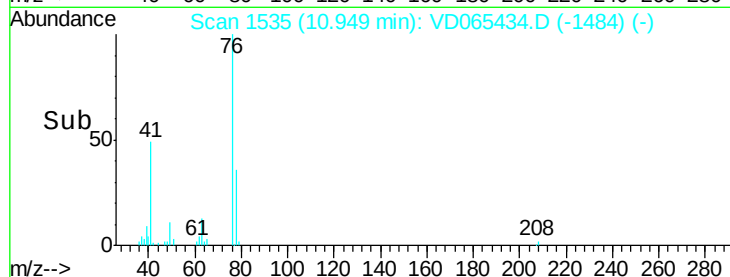
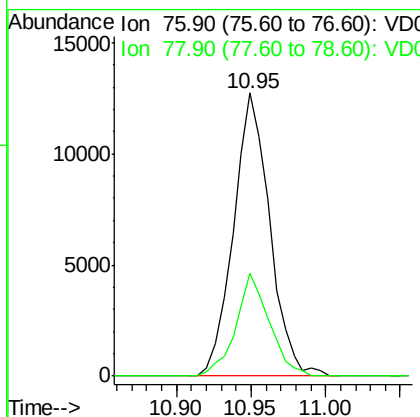
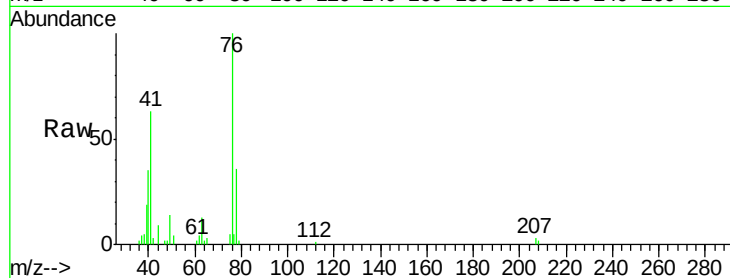
#57  
 1,3-Dichloropropane  
 Concen: 4.003 ug/l  
 RT: 10.95 min Scan# 1535  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 33.5  | 26.0  | 39.0  |

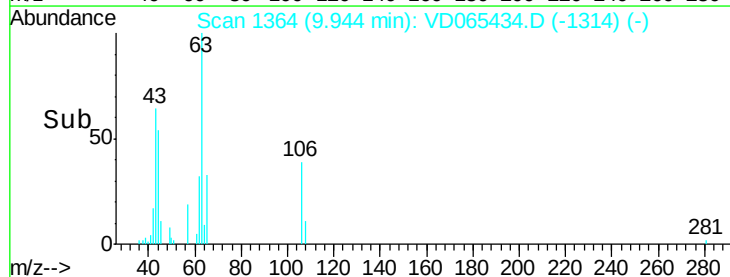
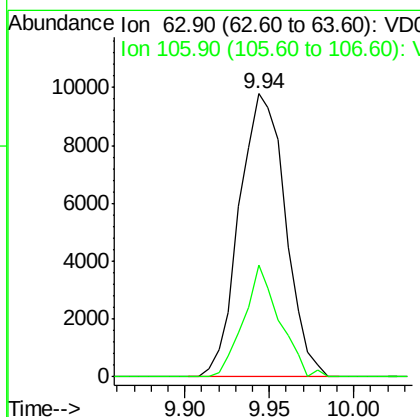
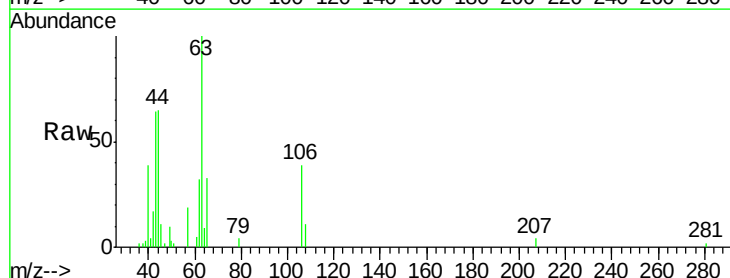
Manual Integrations  
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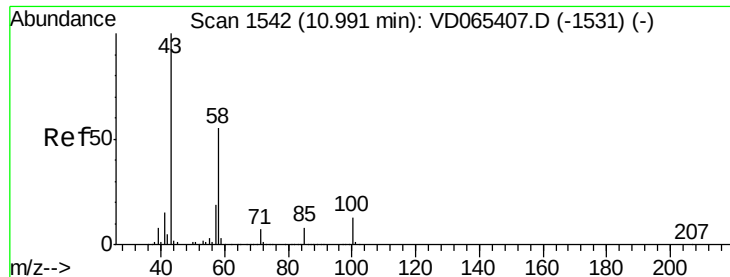
MMDadoda  
 3/6/2020 11:17:33 AM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 16.095 ug/l  
 RT: 9.94 min Scan# 1364  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 106     | 30.8  | 23.3  | 34.9  |





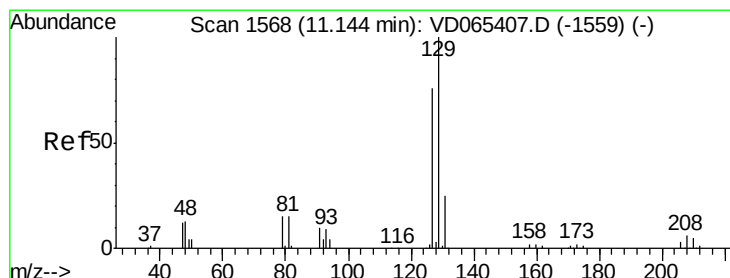
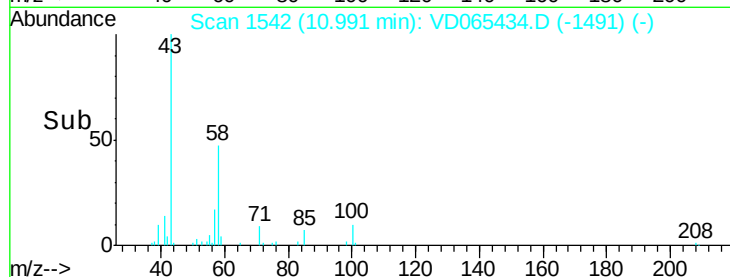
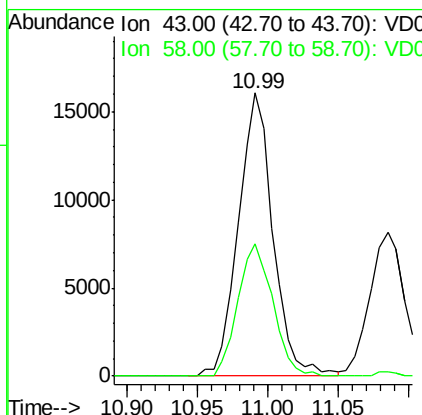
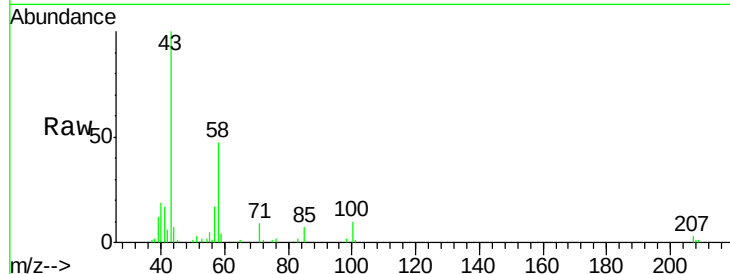
#59  
2-Hexanone  
Concen: 17.346 ug/l  
RT: 10.99 min Scan# 1542  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion   | 43   | Resp  | 27521 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 43        | 100  |       |       |
| 58        | 47.1 | 27.4  | 82.2  |

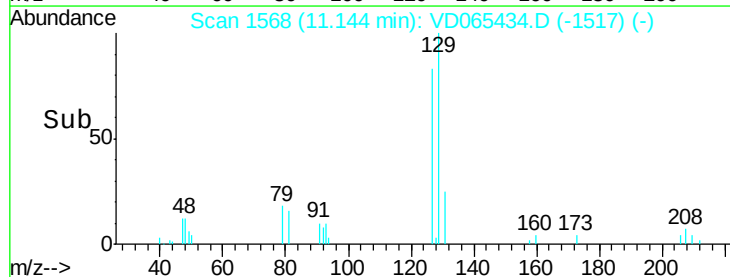
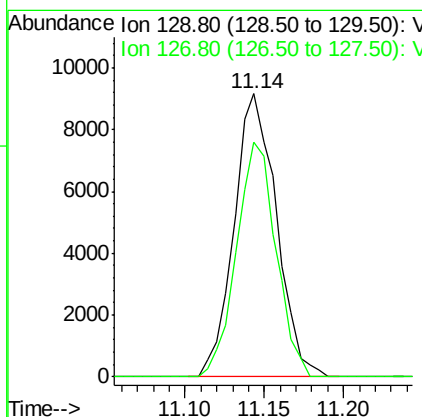
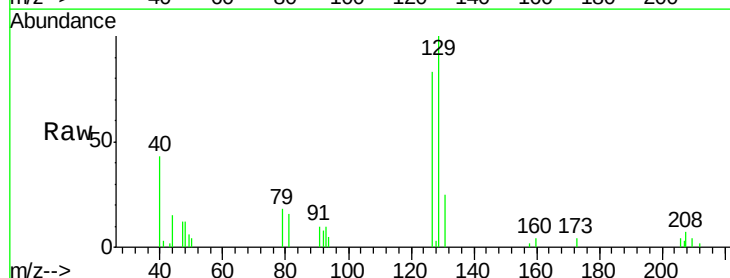
Manual Integrations  
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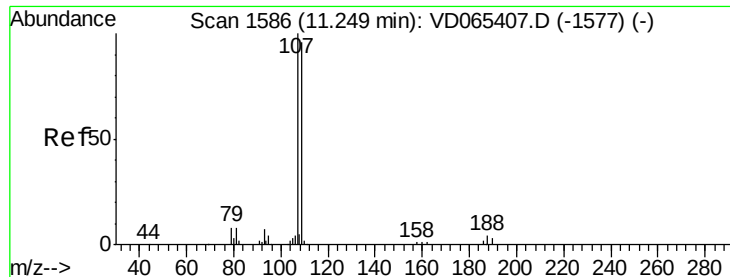
MMDadoda  
3/6/2020 11:17:33 AM



#60  
Dibromochloromethane  
Concen: 4.176 ug/l  
RT: 11.14 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion   | 129  | Resp  | 16996 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 129       | 100  |       |       |
| 127       | 77.2 | 38.5  | 115.5 |





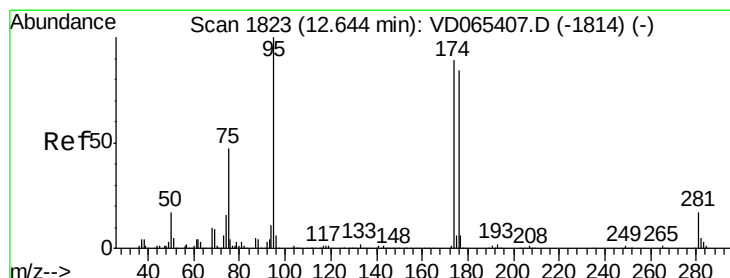
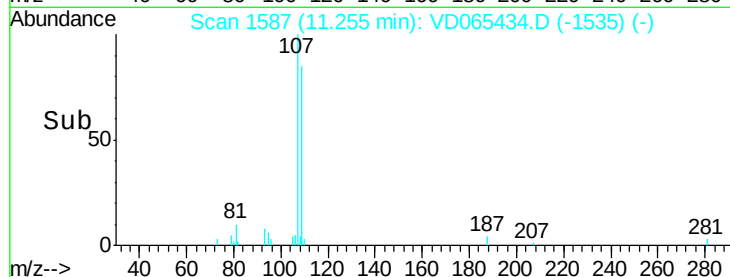
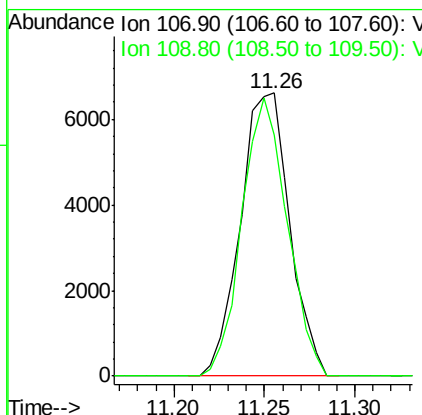
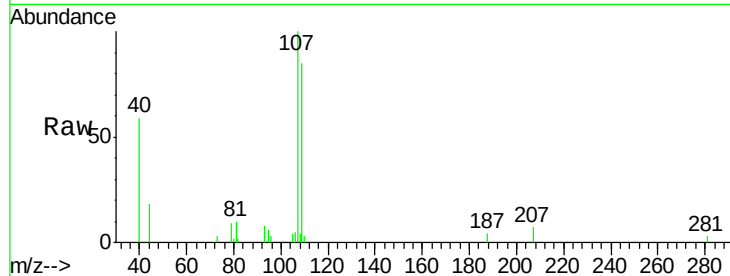
#61  
 1,2-Dibromoethane  
 Concen: 4.129 ug/l  
 RT: 11.26 min Scan# 1587  
 Delta R.T. 0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

Tot Ion:107 Resp: 12507  
 Ion Ratio Lower Upper  
 107 100  
 109 90.4 76.8 115.2

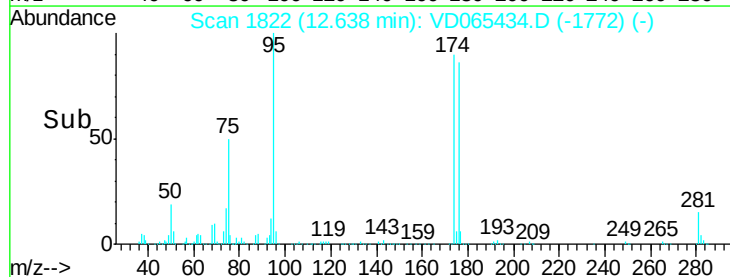
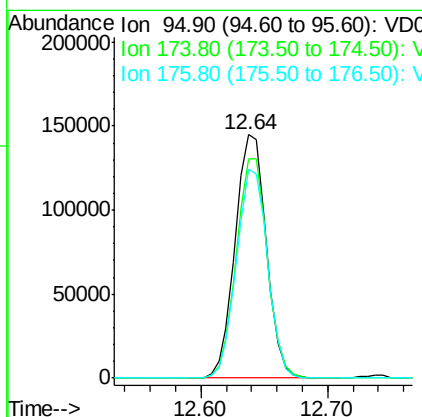
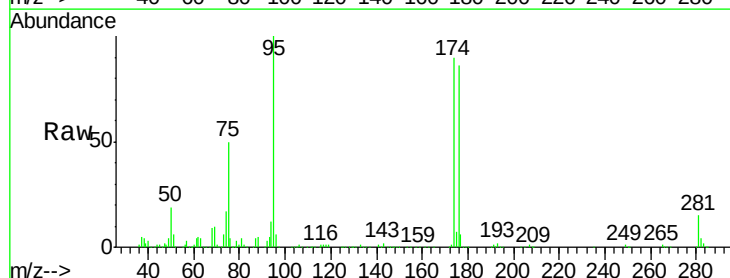
Manual Integrations  
 APPROVED

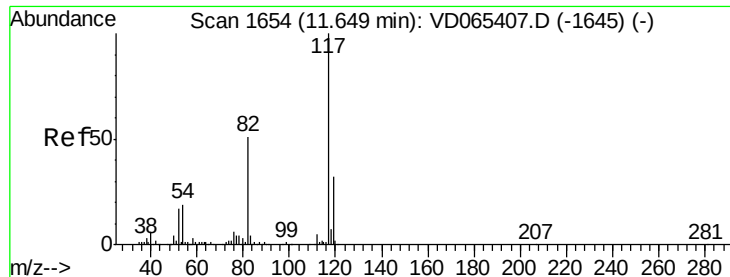
MMDadoda  
 3/6/2020 11:17:33 AM



#62  
 4-Bromofluorobenzene  
 Concen: 50.458 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Tgt Ion: 95 Resp: 246035  
 Ion Ratio Lower Upper  
 95 100  
 174 90.1 0.0 176.8  
 176 85.9 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

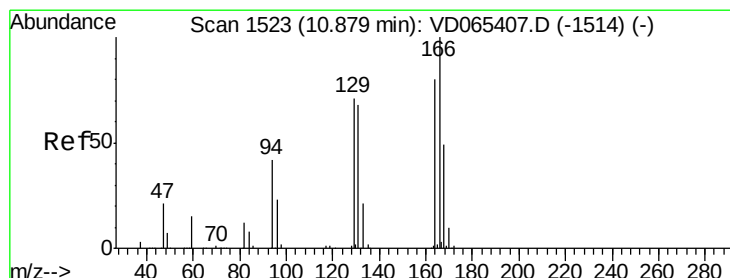
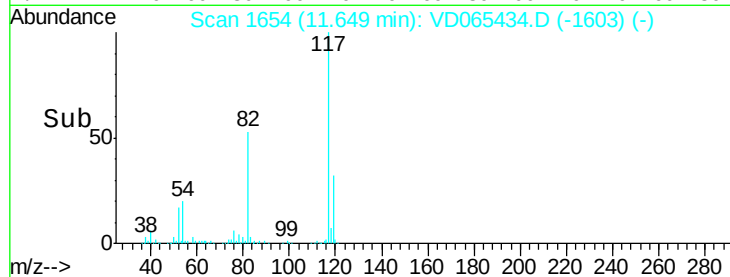
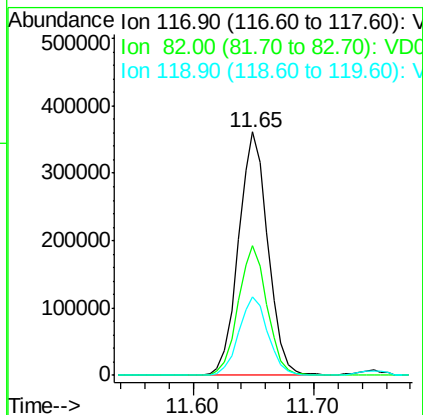
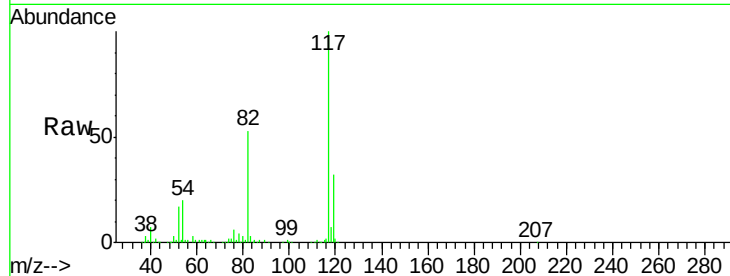
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 117   | Resp: | 612055 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.4  | 40.6  | 60.8   |
| 119       | 32.1  | 25.4  | 38.2   |

Manual Integrations  
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3/6/2020 11:17:33 AM



#64

Tetrachloroethene

Concen: 4.087 ug/l

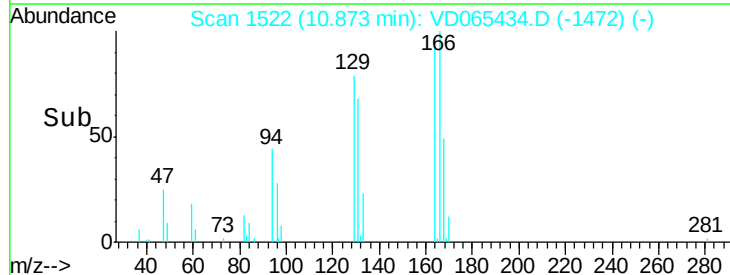
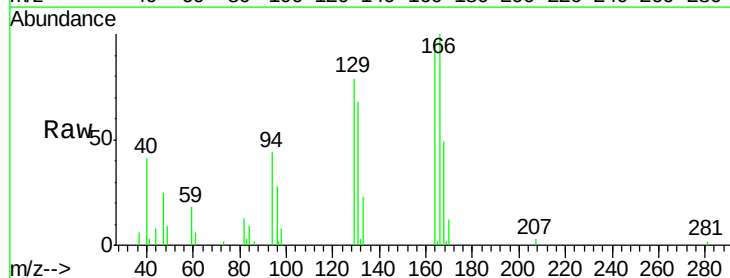
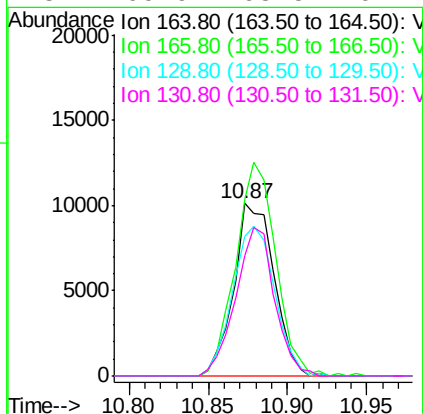
RT: 10.87 min Scan# 1522

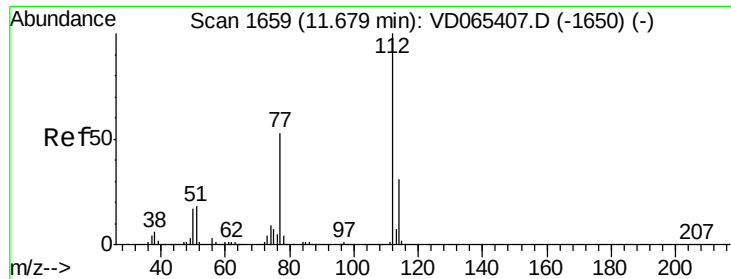
Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 17926 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 166       | 102.7 | 100.5 | 150.7 |
| 129       | 81.2  | 71.5  | 107.3 |
| 131       | 69.9  | 68.5  | 102.7 |





#65

Chlorobenzene

Concen: 4.118 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:112 Resp: 49873

Ion Ratio Lower Upper

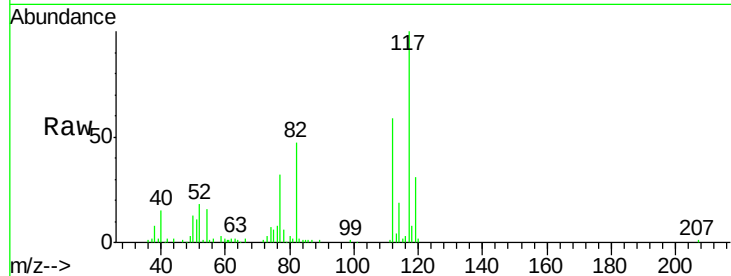
112 100

114 32.0 24.4 36.6

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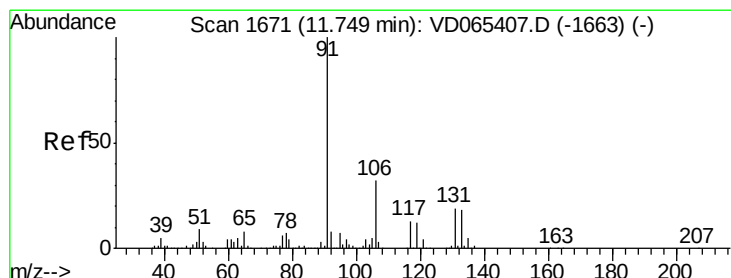
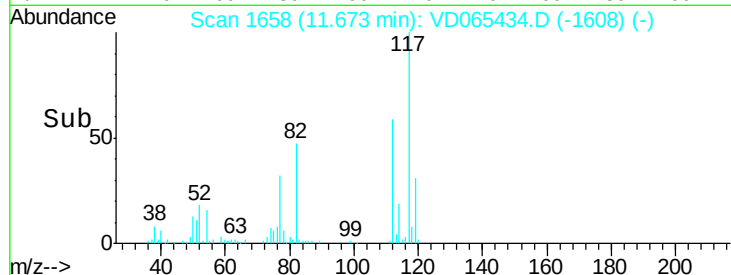
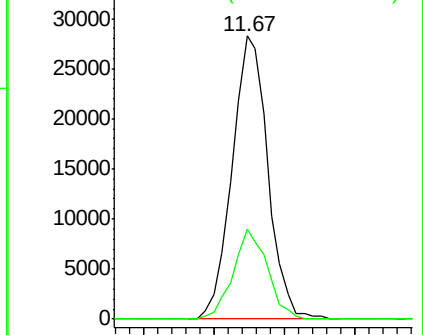
MMDadoda

3/6/2020 11:17:33 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 3.903 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

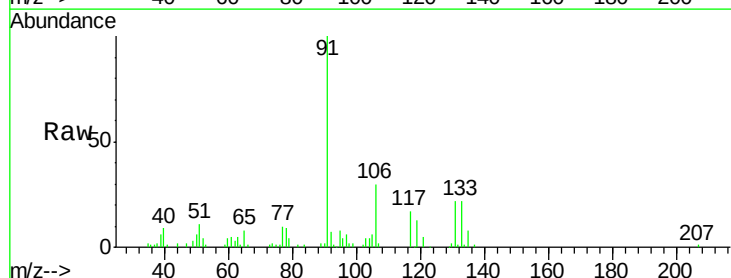
Tgt Ion:131 Resp: 17215

Ion Ratio Lower Upper

131 100

133 99.8 49.2 147.6

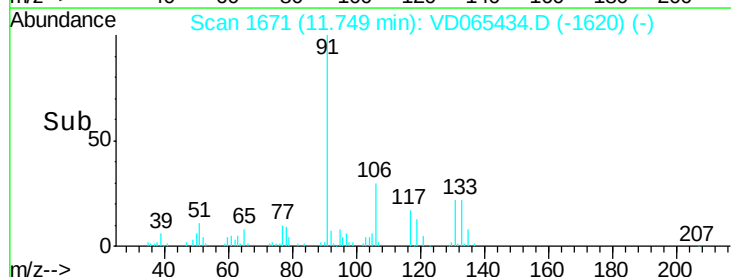
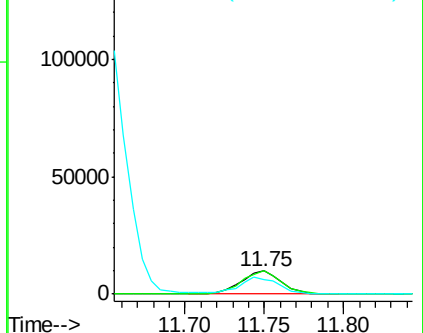
119 71.8 33.3 99.8

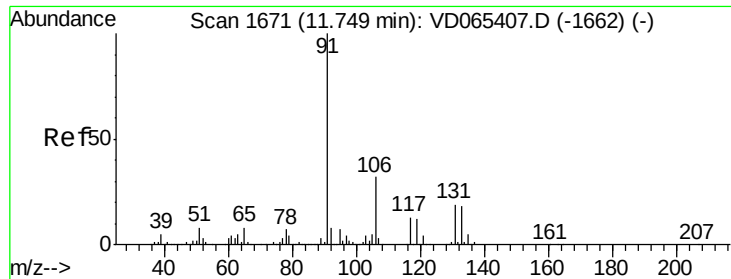


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





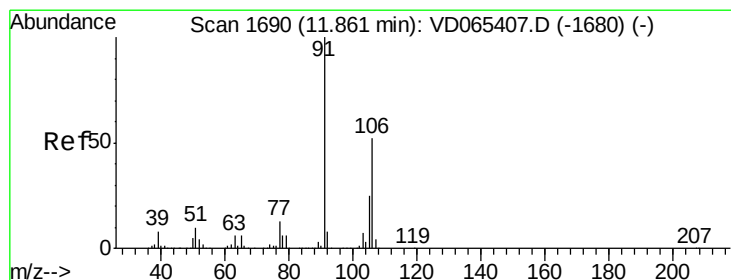
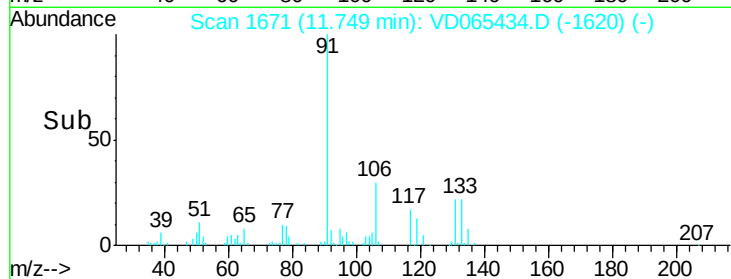
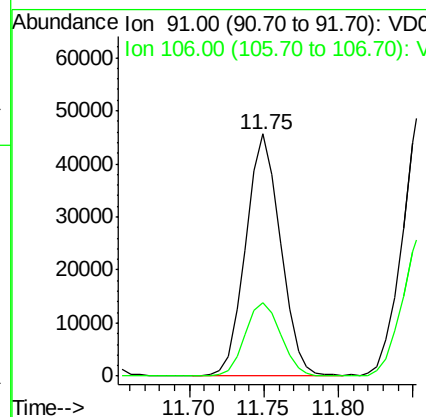
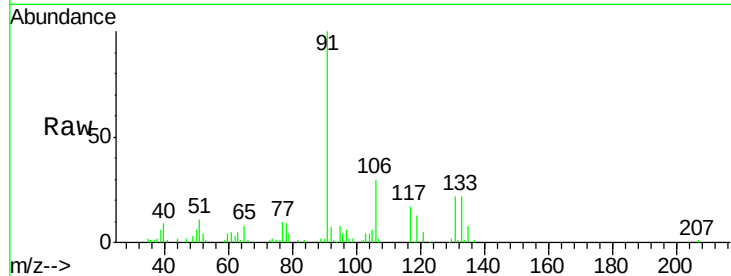
#67  
Ethyl Benzene  
Concen: 3.522 ug/l  
RT: 11.75 min Scan# 1671  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

Tot Ion: 91 Resp: 73715  
Ion Ratio Lower Upper  
91 100  
106 30.1 25.2 37.8

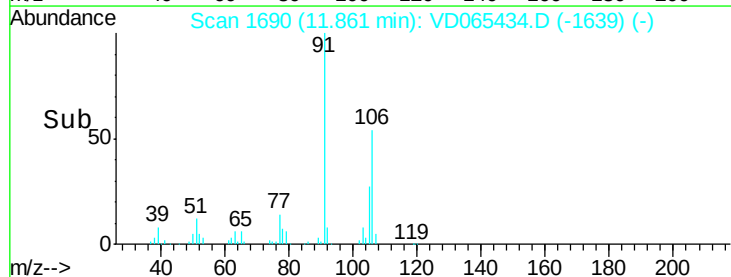
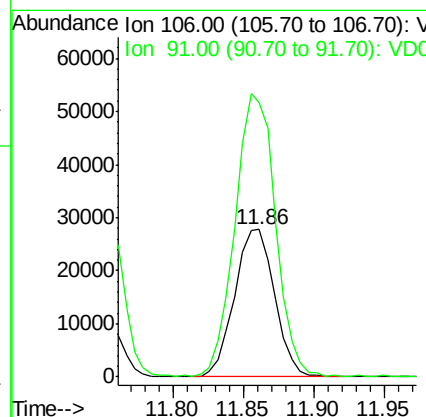
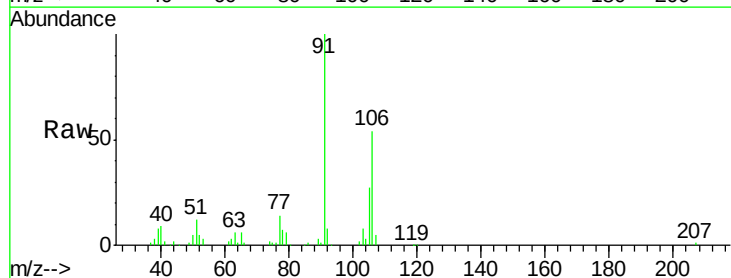
Manual Integrations  
APPROVED

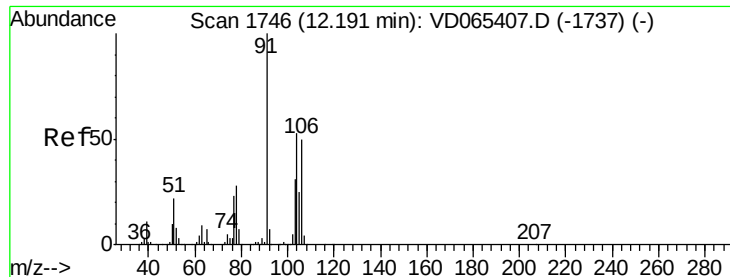
MMDadoda  
3/6/2020 11:17:33 AM



#68  
m/p-Xylenes  
Concen: 6.807 ug/l  
RT: 11.86 min Scan# 1690  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Tgt Ion: 106 Resp: 54931  
Ion Ratio Lower Upper  
106 100  
91 195.0 155.9 233.9





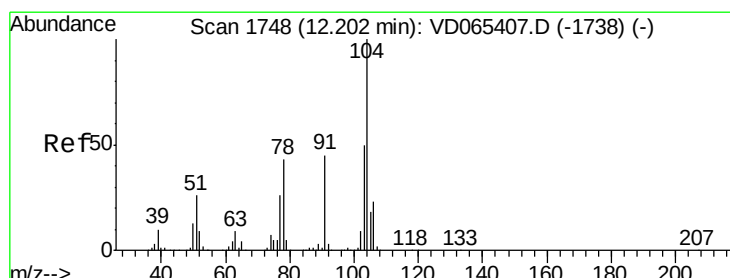
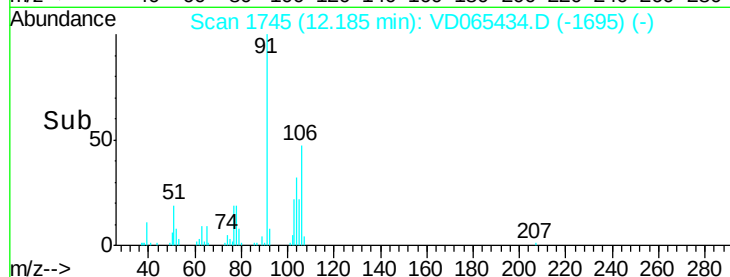
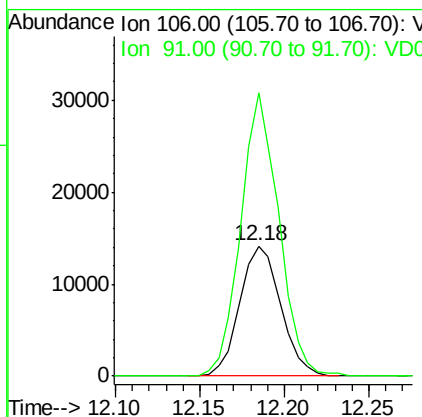
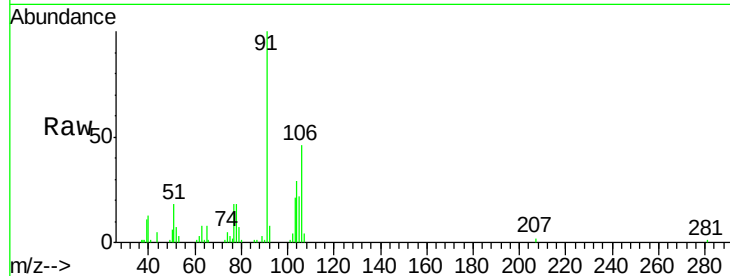
#69  
o-Xylene  
Concen: 3.367 ug/l  
RT: 12.18 min Scan# 1745  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 106     | 100   |       | 23899 |       |       |
| 91      | 202.5 | 103.5 | 310.3 |       |       |

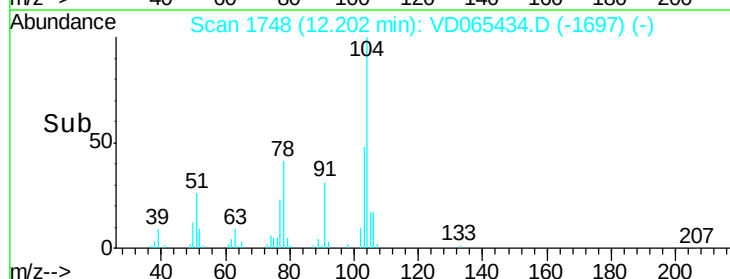
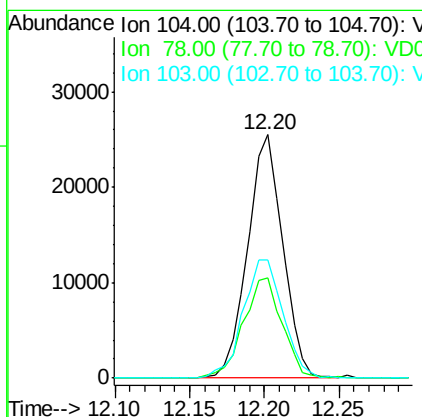
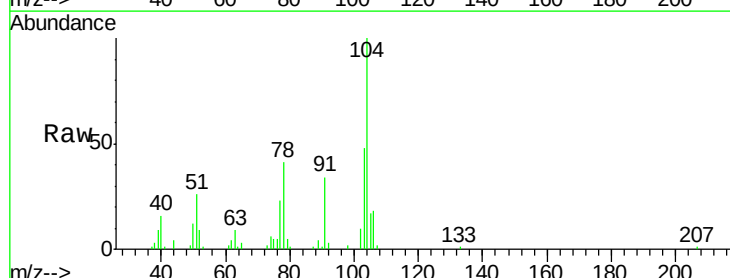
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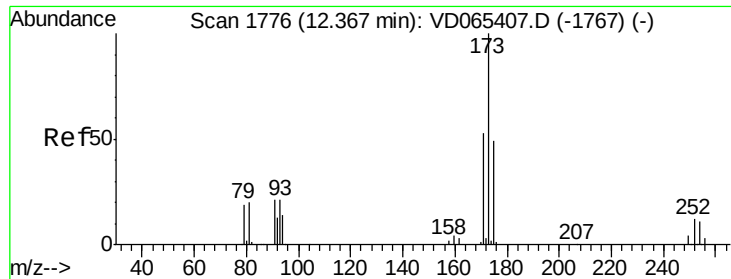
MMDadoda  
3/6/2020 11:17:33 AM



#70  
Styrene  
Concen: 3.331 ug/l  
RT: 12.20 min Scan# 1748  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 104     | 100  |       | 41618 |       |       |
| 78      | 45.5 | 37.7  | 56.5  |       |       |
| 103     | 55.1 | 43.6  | 65.4  |       |       |





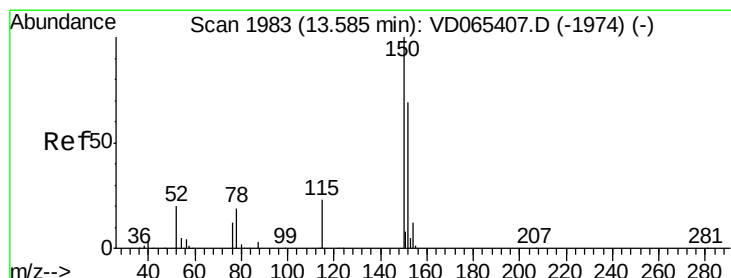
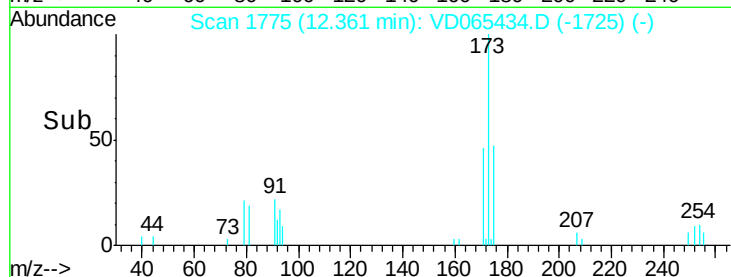
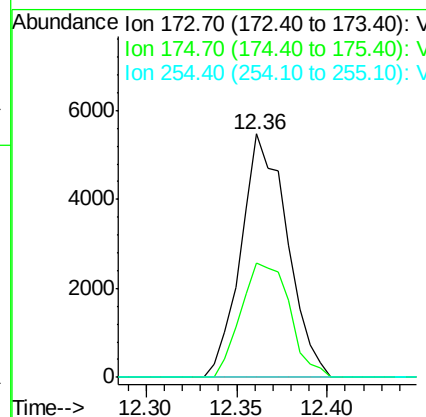
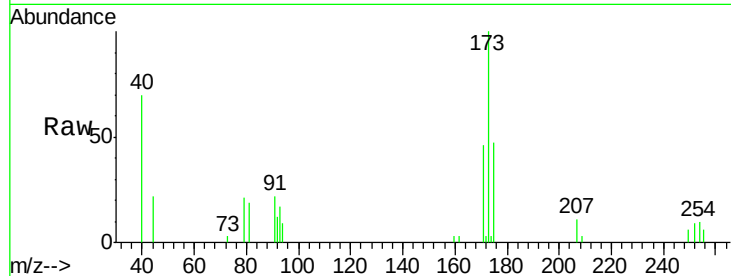
#71  
Bromoform  
Concen: 3.924 ug/l  
RT: 12.36 min Scan# 1775  
Delta R.T. -0.01 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.5  | 24.3  | 73.0  |
| 254     | 0.0   | 0.1   | 0.1#  |

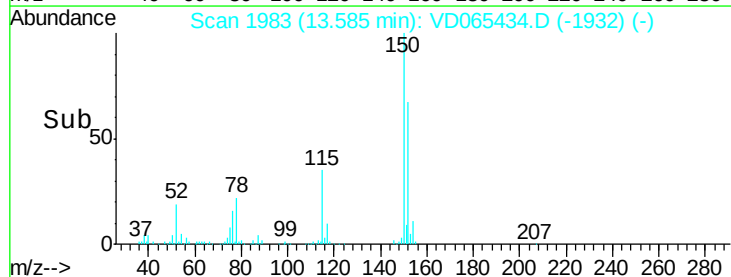
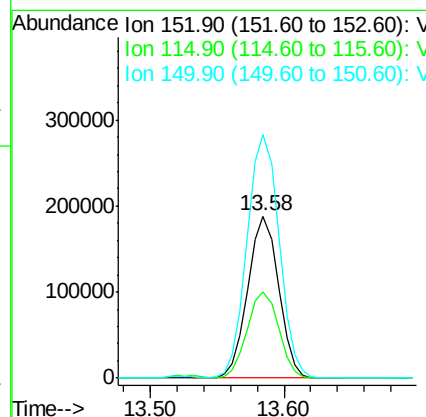
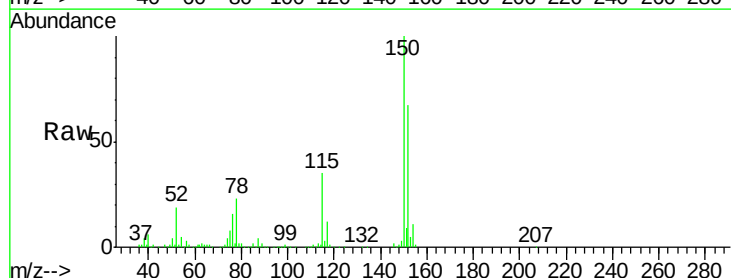
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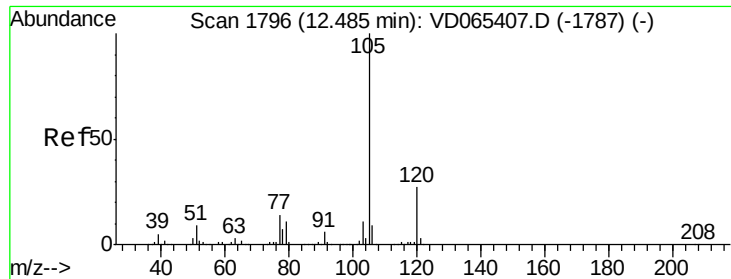


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.7  | 27.6  | 82.8  |
| 150     | 156.5 | 0.0   | 345.0 |







#73

Isopropylbenzene

Concen: 3.235 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 63958

Ion Ratio Lower Upper

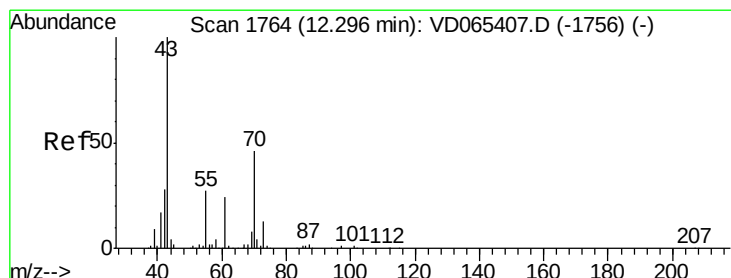
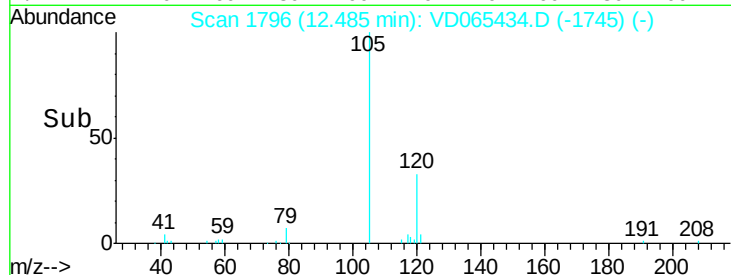
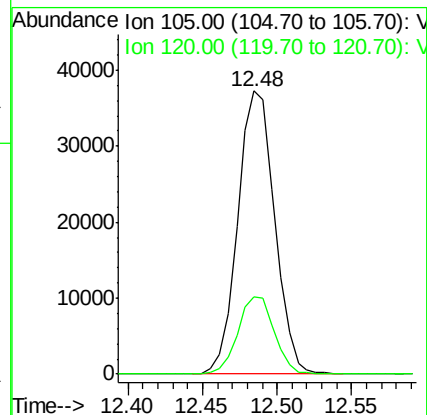
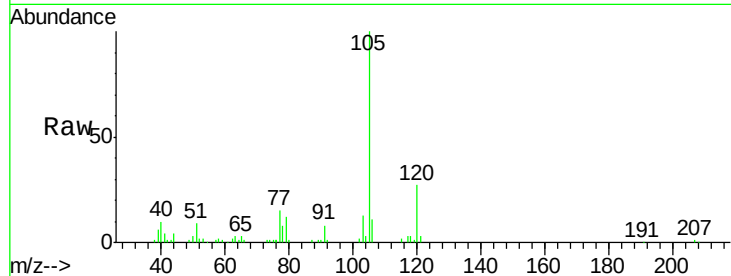
105 100

120 27.0 13.5 40.4

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#74

N-ethyl acetate

Concen: 3.199 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Tgt Ion: 43 Resp: 12948

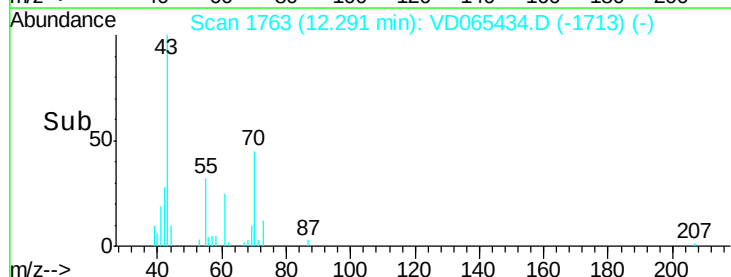
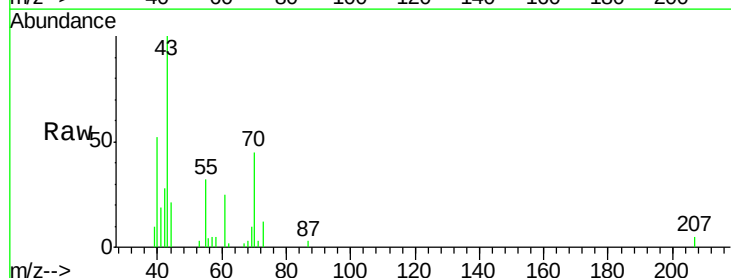
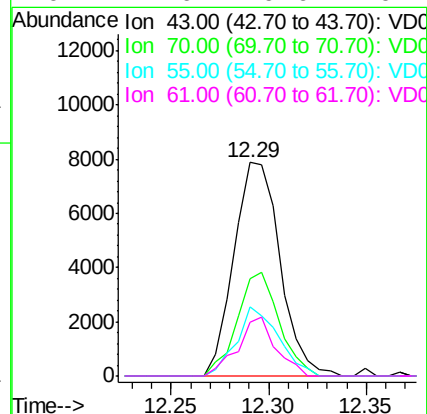
Ion Ratio Lower Upper

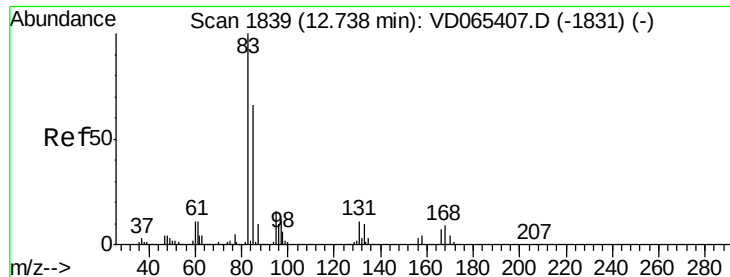
43 100

70 44.0 36.1 54.1

55 29.2 21.6 32.4

61 22.6 19.6 29.4





#75

1,1,2,2-Tetrachloroethane

Concen: 4.151 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

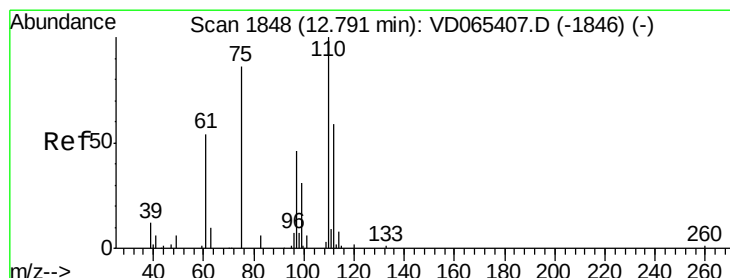
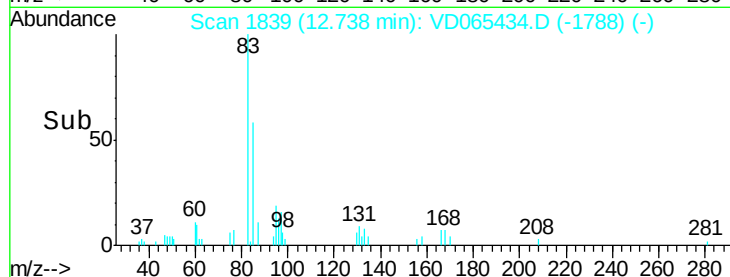
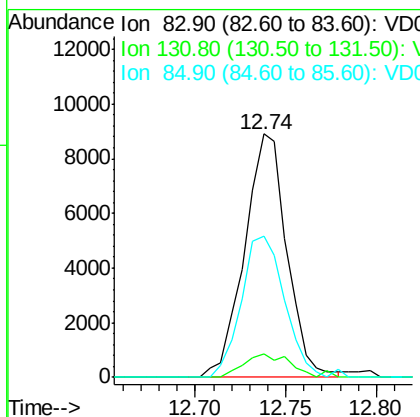
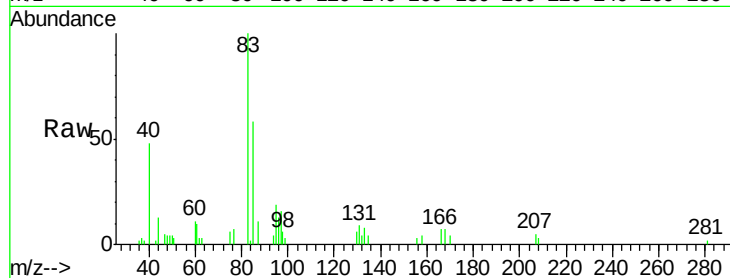
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 14428 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 10.8  | 5.4   | 16.2  |
| 85        | 59.1  | 33.0  | 98.9  |

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#76

1,2,3-Trichloropropane

Concen: 3.908 ug/l m

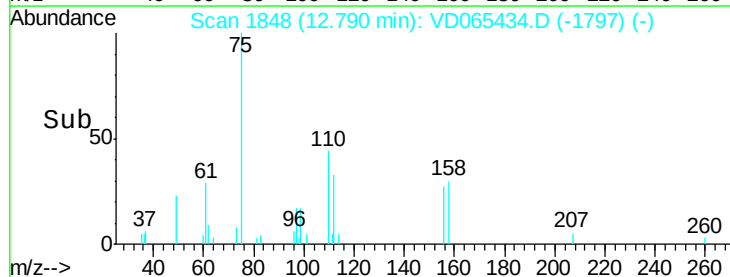
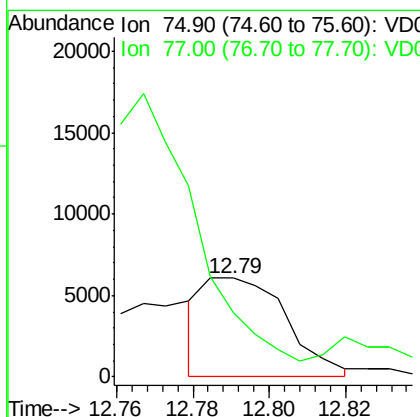
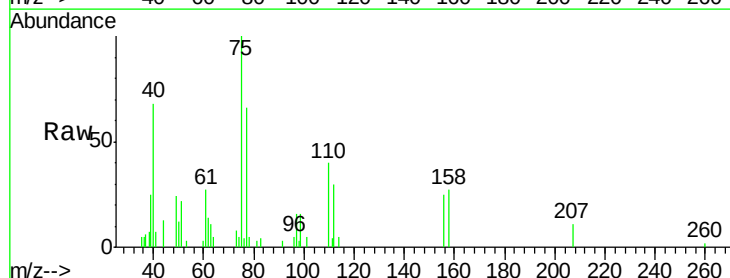
RT: 12.79 min Scan# 1848

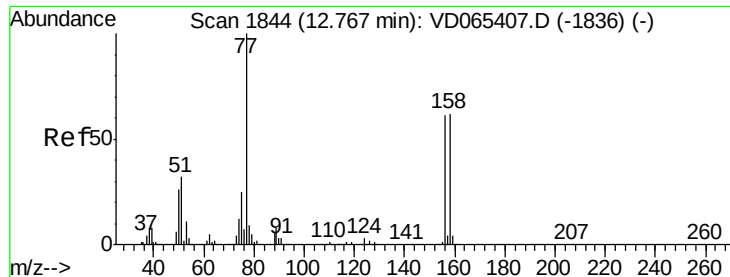
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 9271 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 0.0   | 0.0   | 0.0  |





#77

Bromobenzene

Concen: 3.846 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.01 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

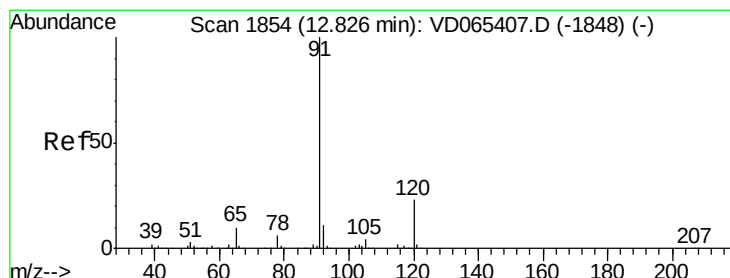
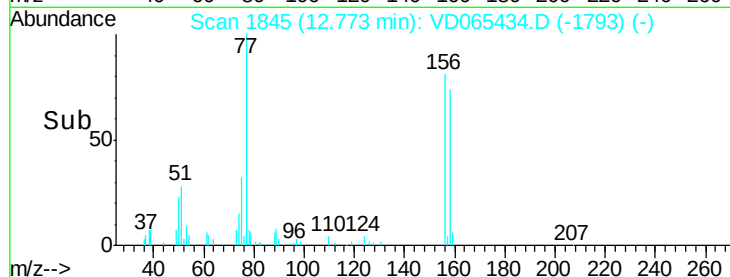
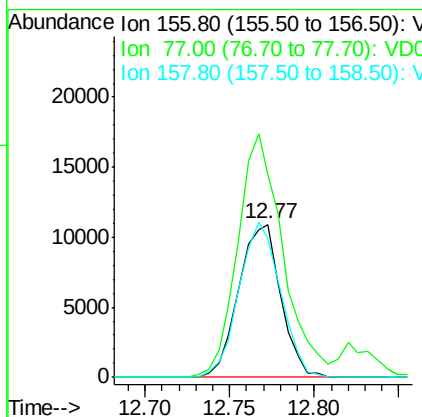
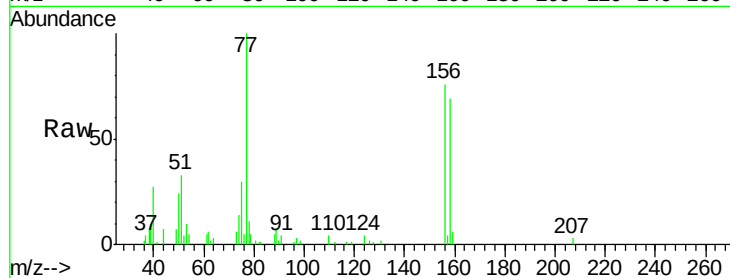
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 171.8 | 84.9  | 254.6 |
| 158     | 100.2 | 49.0  | 147.2 |

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#78

n-propylbenzene

Concen: 3.559 ug/l

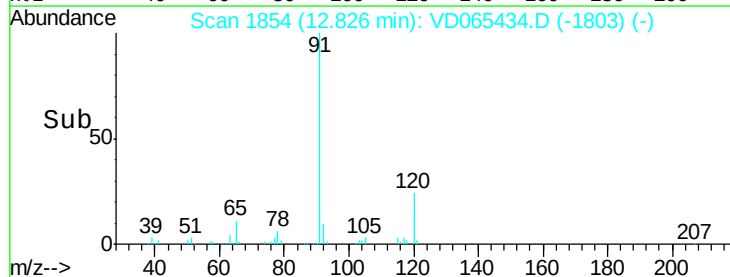
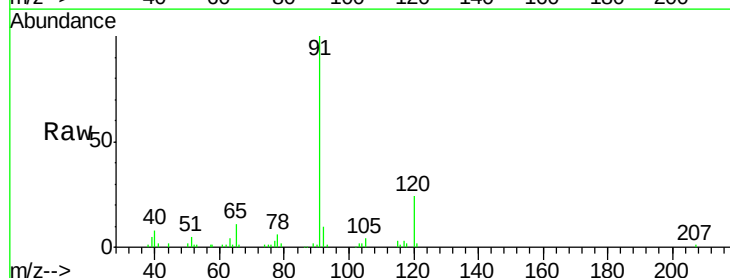
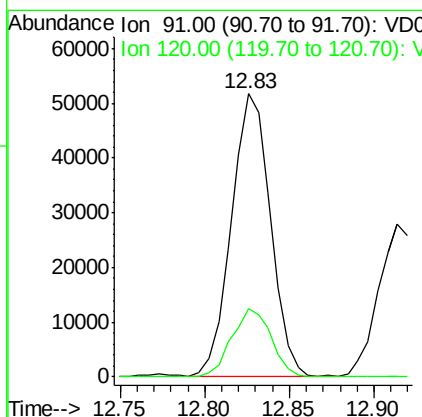
RT: 12.83 min Scan# 1854

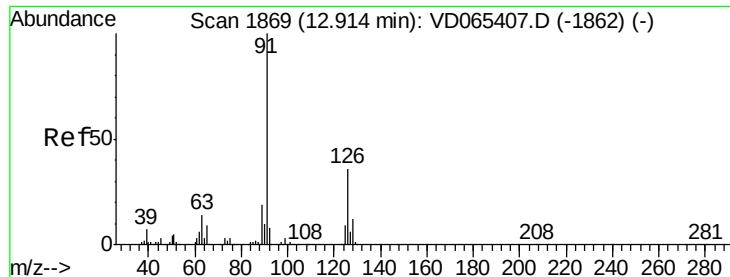
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 24.0  | 11.9  | 35.5  |





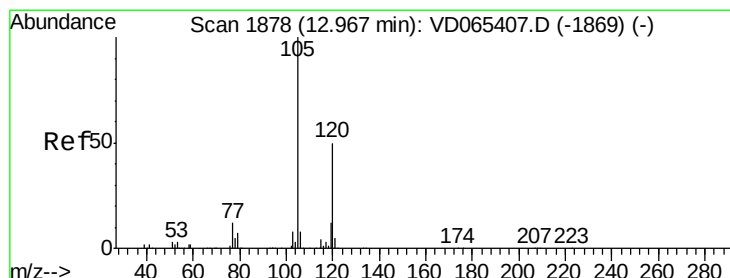
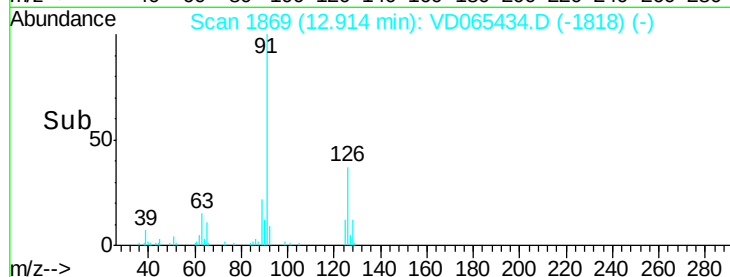
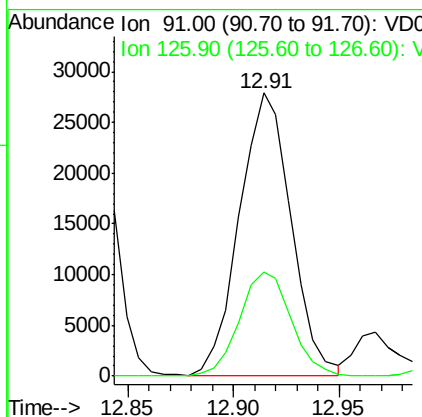
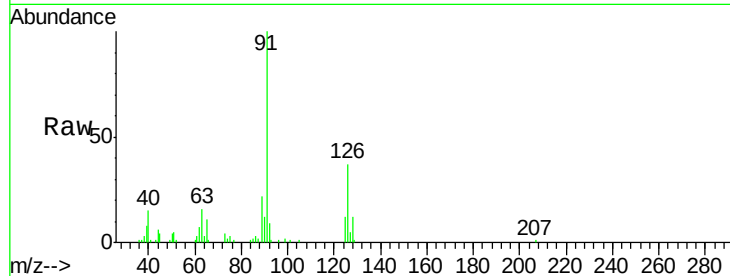
#79  
 2-Chlorotoluene  
 Concen: 3.594 ug/l  
 RT: 12.91 min Scan# 1869  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 36.7  | 17.9  | 53.8  |

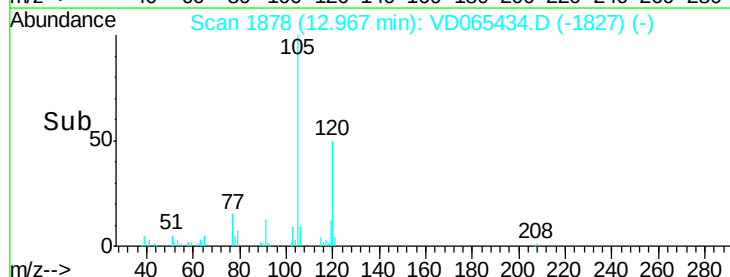
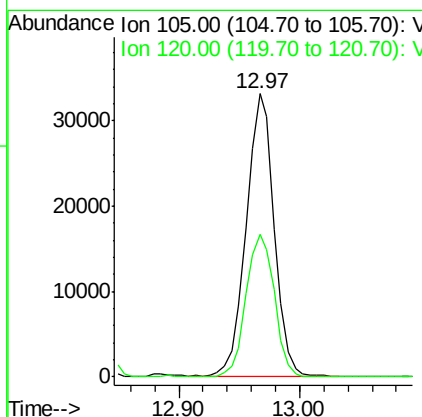
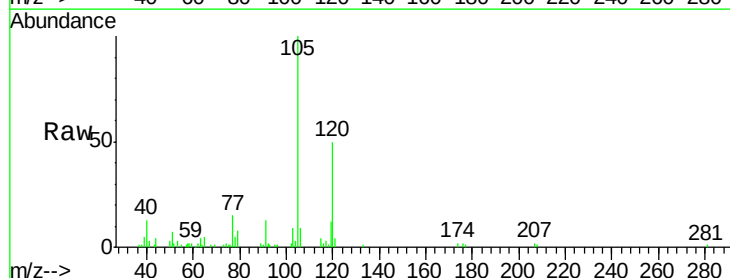
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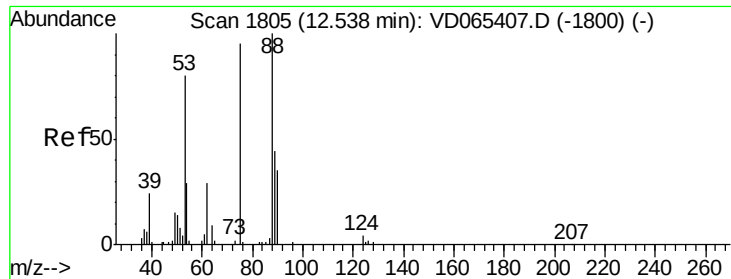
MMDadoda  
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#80  
 1,3,5-Trimethylbenzene  
 Concen: 3.303 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 50.8  | 25.4  | 76.0  |





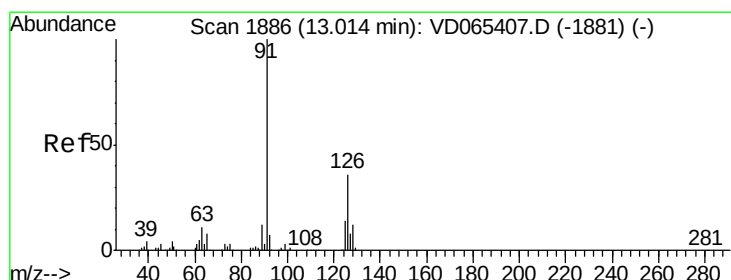
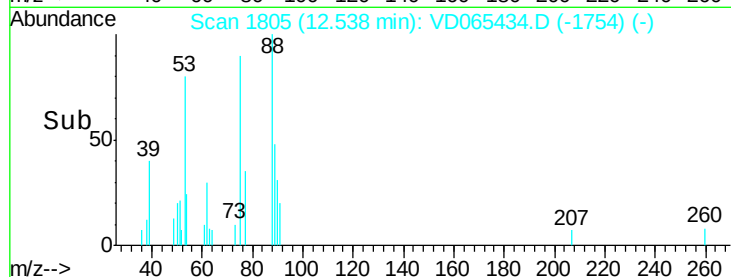
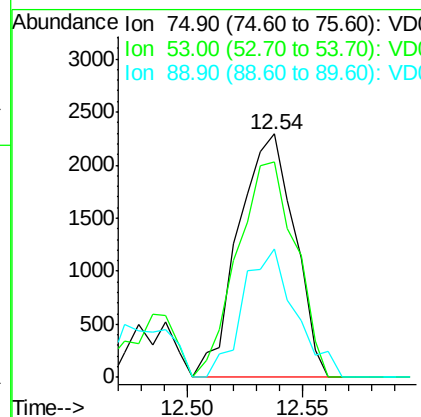
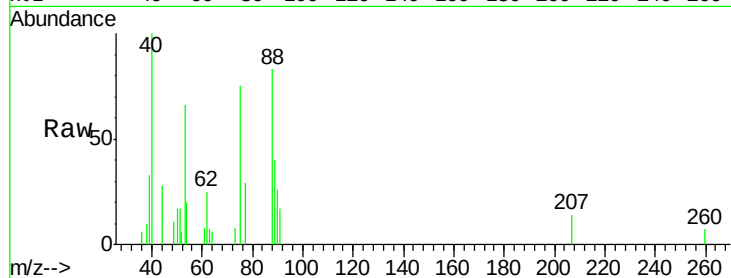
#81  
trans-1,4-Dichloro-2-butene  
Concen: 3.444 ug/l  
RT: 12.54 min Scan# 1805  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 91.9  | 71.3  | 106.9 |
| 89      | 49.3  | 37.0  | 55.6  |

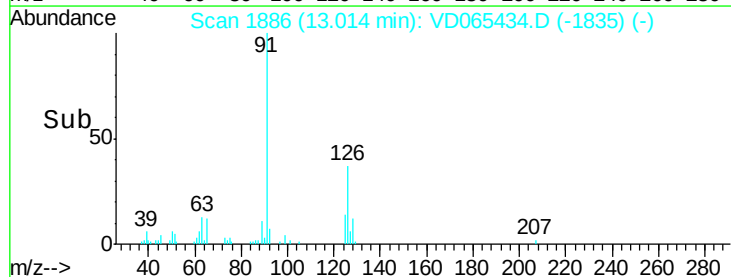
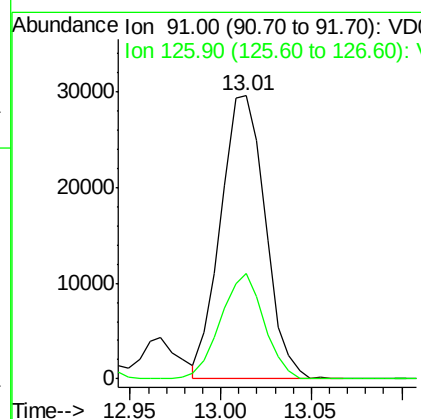
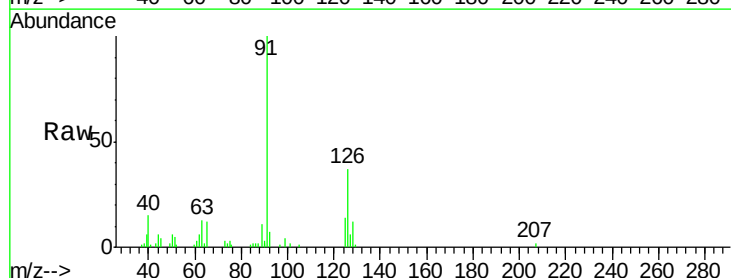
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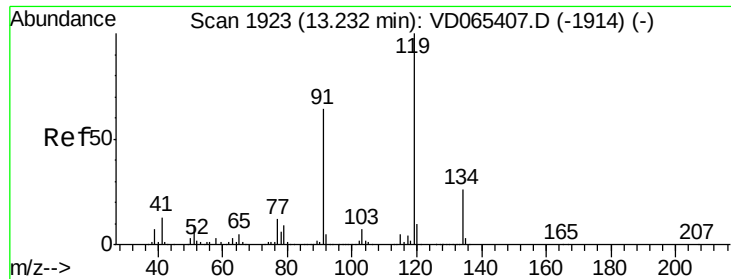
MMDadoda  
3/6/2020 11:17:33 AM



#82  
4-Chlorotoluene  
Concen: 3.642 ug/l  
RT: 13.01 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 36.1  | 17.6  | 52.8  |





#83

tert-Butylbenzene

Concen: 3.178 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

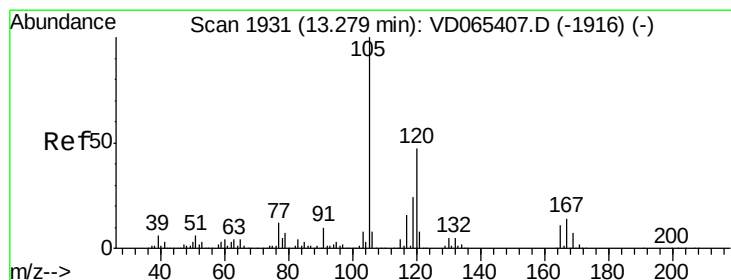
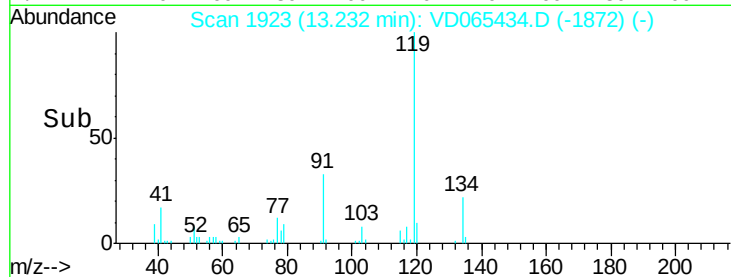
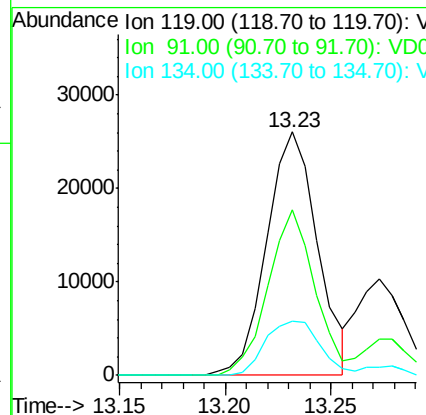
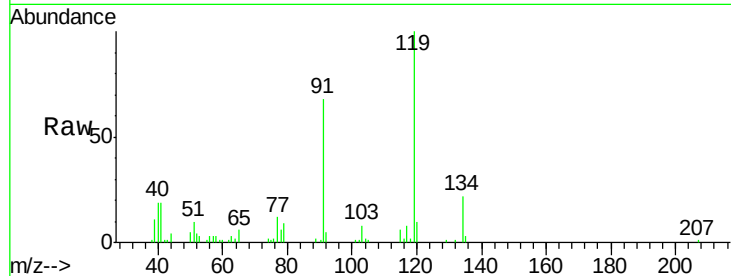
ClientSampleId :

MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 63.7  | 31.6  | 95.0  |
| 134     | 24.1  | 14.2  | 42.8  |

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3/6/2020 11:17:33 AM



#84

1,2,4-Trimethylbenzene

Concen: 3.142 ug/l

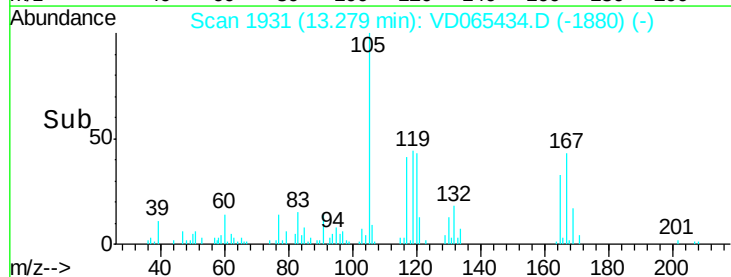
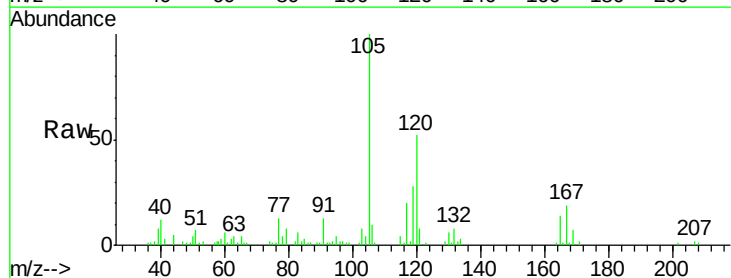
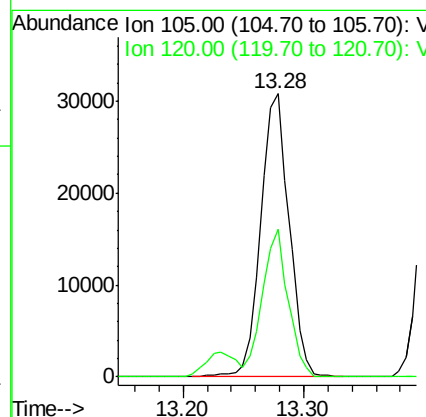
RT: 13.28 min Scan# 1931

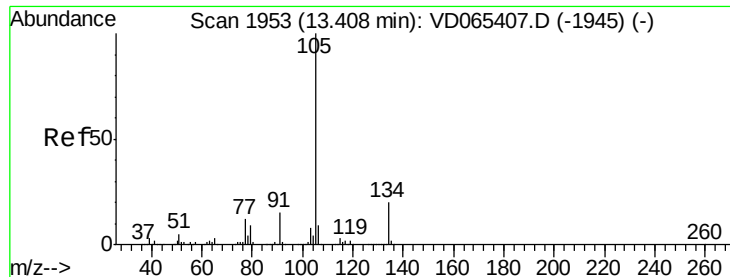
Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.1  | 23.4  | 70.3  |





#85

sec-Butylbenzene

Concen: 3.216 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

Instrument :

MSVOA\_D

ClientSampleId :

MDL-SOIL-03-QT1-2020DL

Tot Ion:105 Resp: 63127

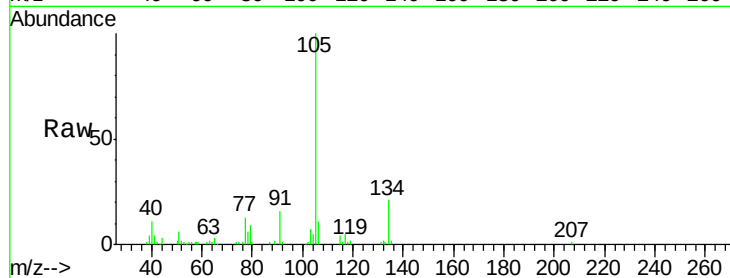
Ion Ratio Lower Upper

105 100

134 21.7 10.3 30.9

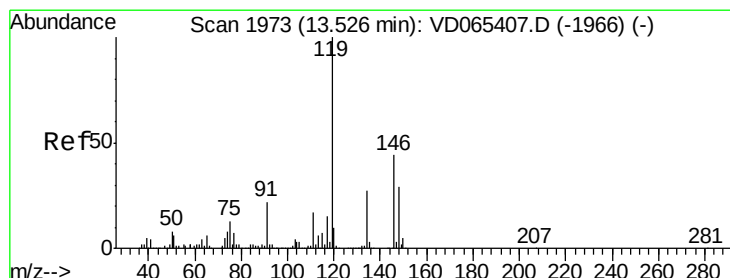
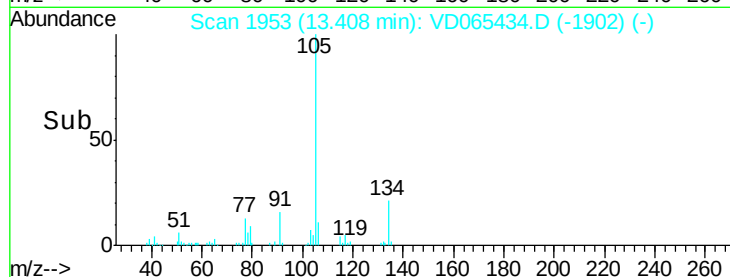
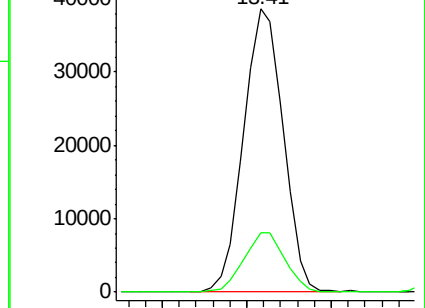
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.035 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065434.D

Acq: 05 Mar 2020 16:37

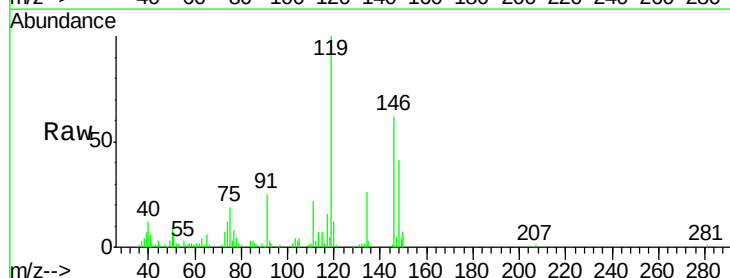
Tgt Ion:119 Resp: 54363

Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.9

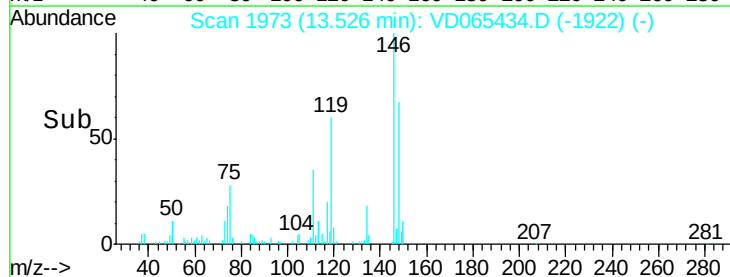
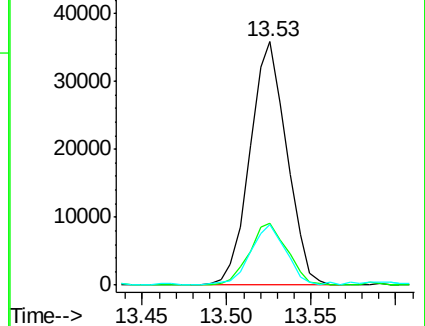
91 23.9 10.9 32.6

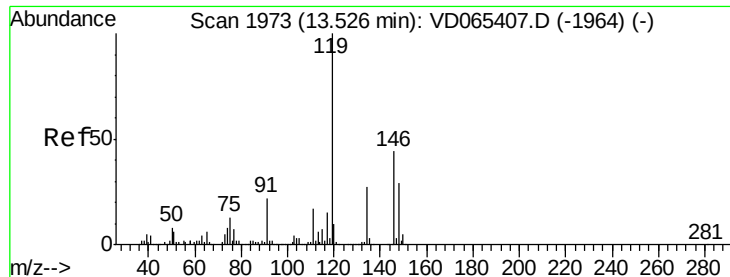


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





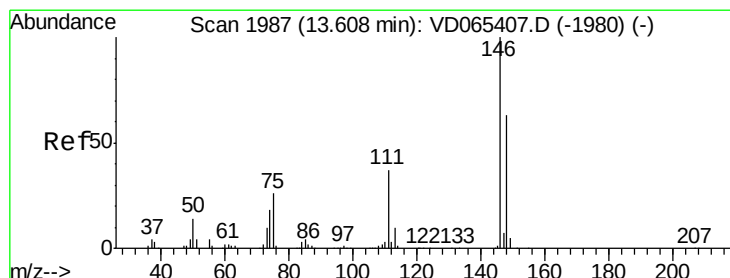
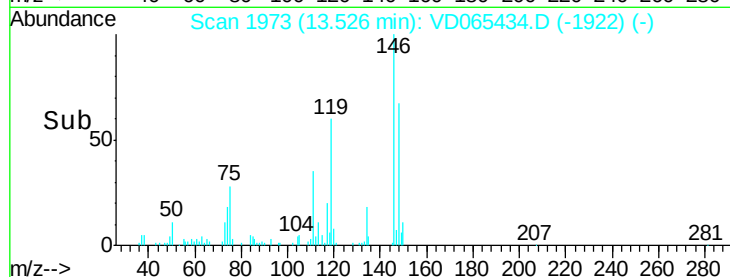
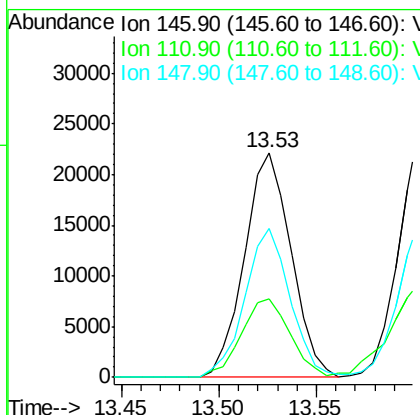
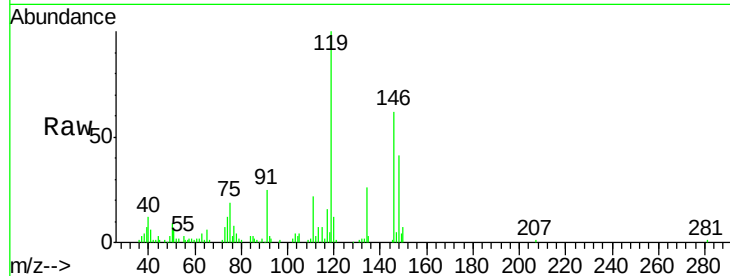
#87  
 1,3-Dichlorobenzene  
 Concen: 3.878 ug/l  
 RT: 13.53 min Scan# 1973  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.6  | 19.1  | 57.1  |
| 148     | 64.4  | 32.3  | 96.8  |

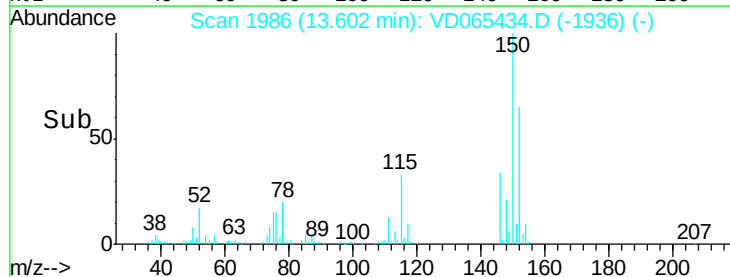
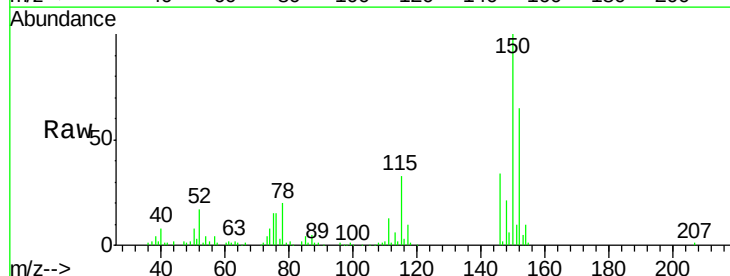
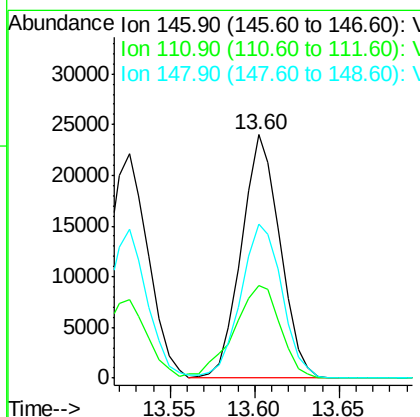
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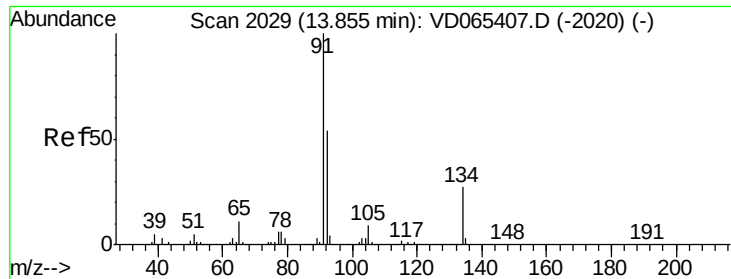


#88  
 1,4-Dichlorobenzene  
 Concen: 4.075 ug/l  
 RT: 13.60 min Scan# 1986  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.6  | 18.5  | 55.5  |
| 148     | 67.6  | 32.0  | 96.0  |







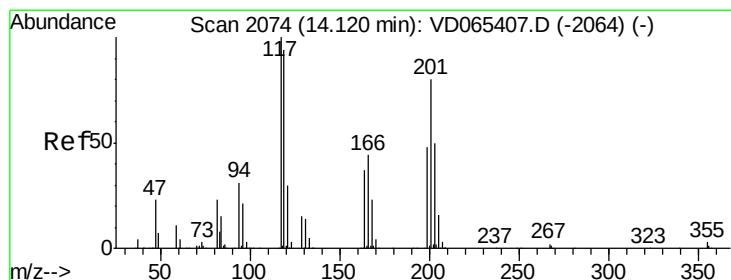
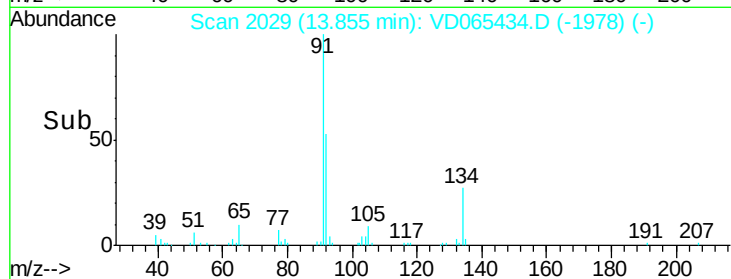
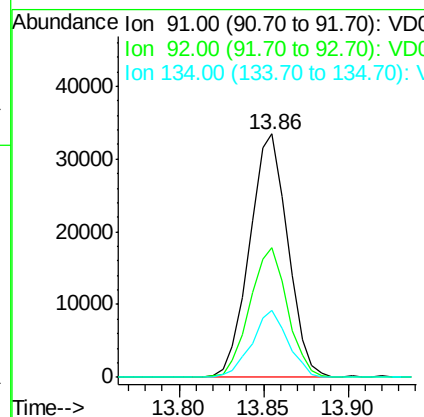
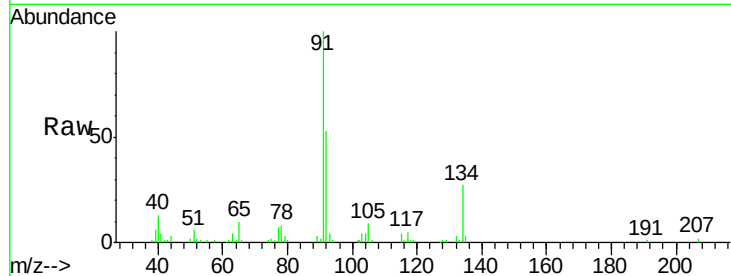
#89  
n-Butylbenzene  
Concen: 3.177 ug/l  
RT: 13.86 min Scan# 2029  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.5  | 26.8  | 80.4  |
| 134     | 26.1  | 13.4  | 40.2  |

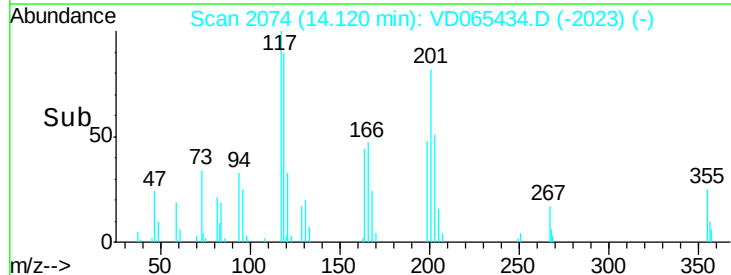
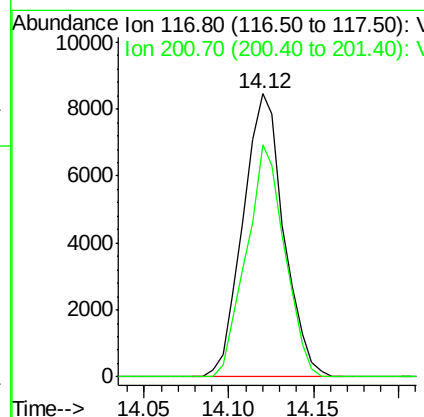
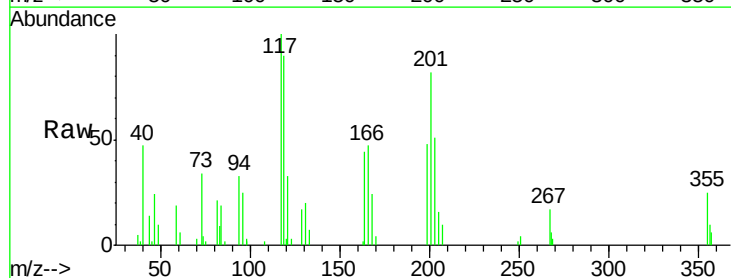
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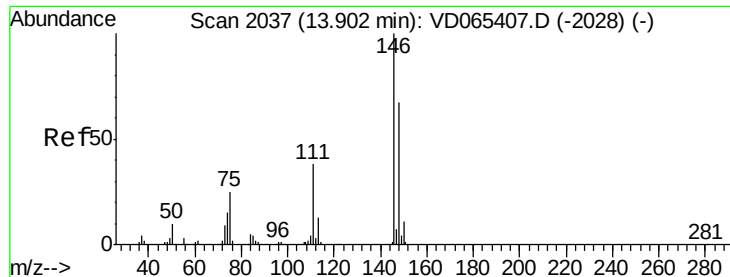
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#90  
Hexachloroethane  
Concen: 3.858 ug/l  
RT: 14.12 min Scan# 2074  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 76.8  | 41.9  | 125.6 |





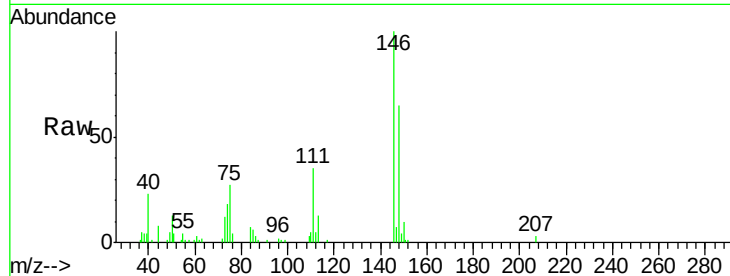
#91  
 1,2-Dichlorobenzene  
 Concen: 3.836 ug/l  
 RT: 13.90 min Scan# 2037  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

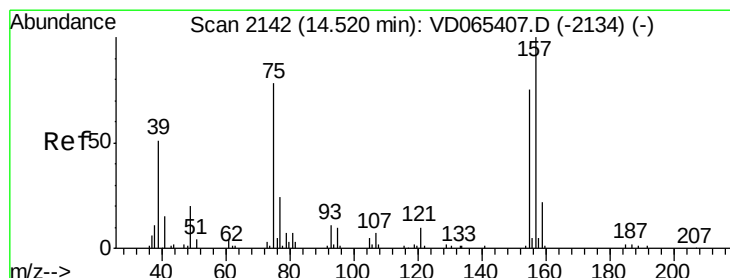
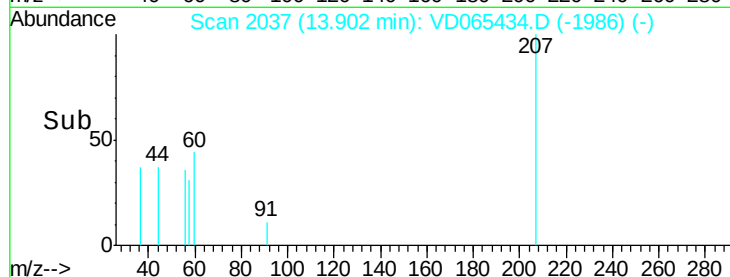
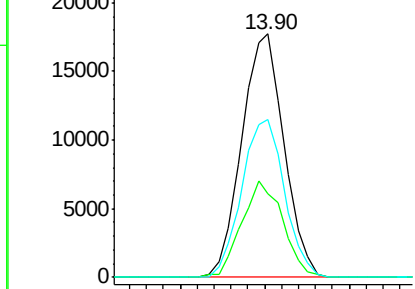
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.7  | 19.8  | 59.3  |
| 148     | 65.6  | 32.6  | 97.8  |

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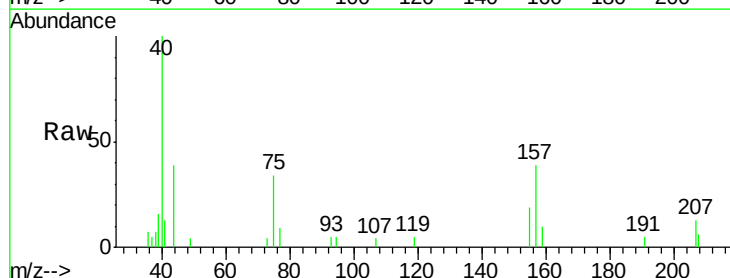


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

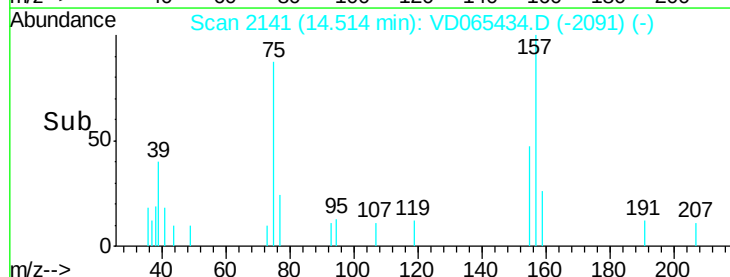
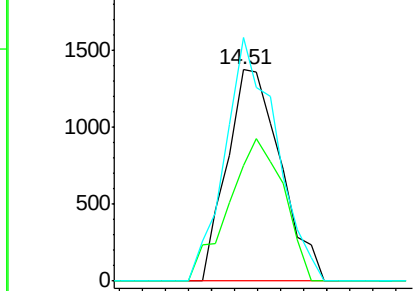


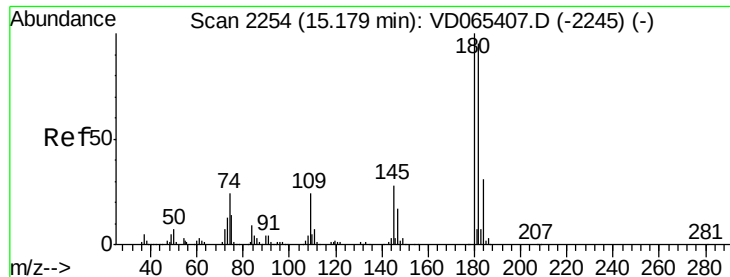
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 4.190 ug/l  
 RT: 14.51 min Scan# 2141  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 68.9  | 46.4  | 139.1 |
| 157     | 110.6 | 60.2  | 180.4 |



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 154.80 (154.50 to 155.50): V  
 Ion 156.80 (156.50 to 157.50): V





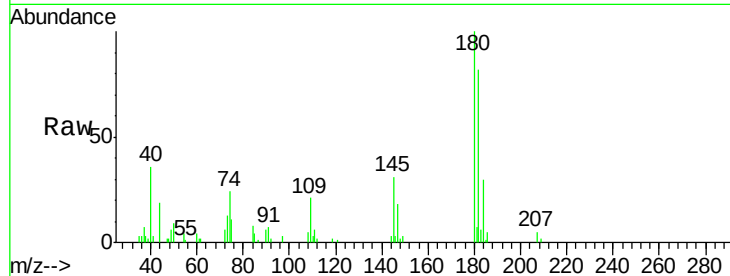
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.674 ug/l  
 RT: 15.18 min Scan# 2254  
 Delta R.T. -0.00 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2020DL

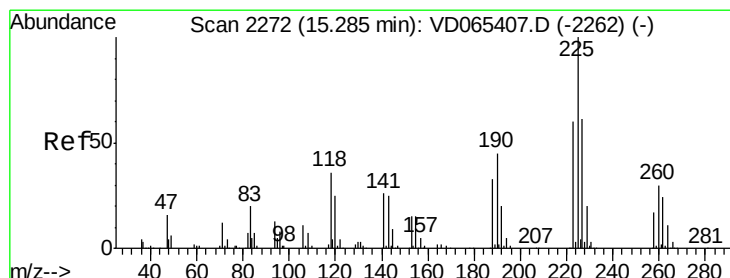
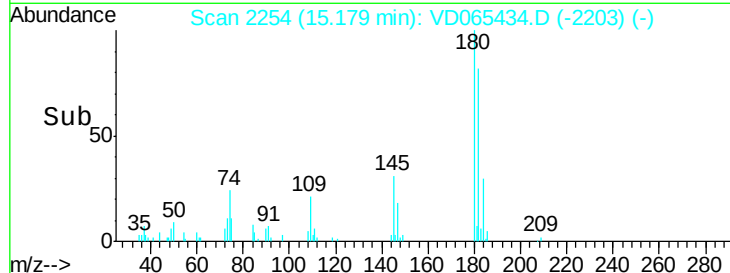
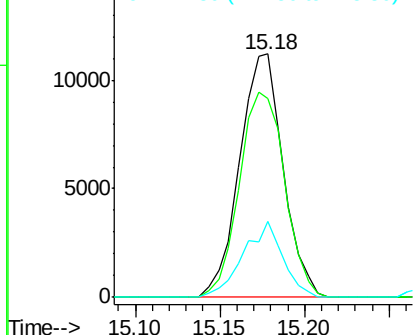
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 87.7  | 48.3  | 144.9 |
| 145     | 28.5  | 14.4  | 43.4  |

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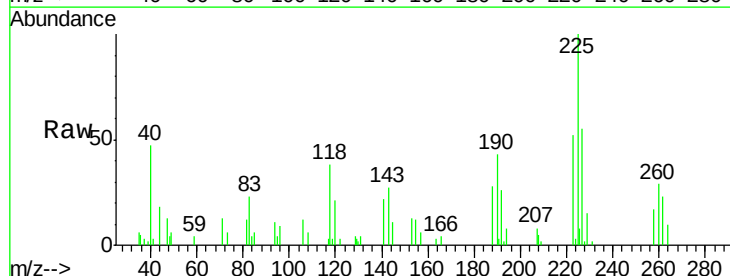


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

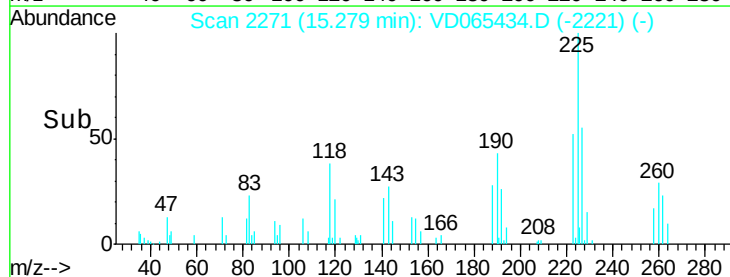
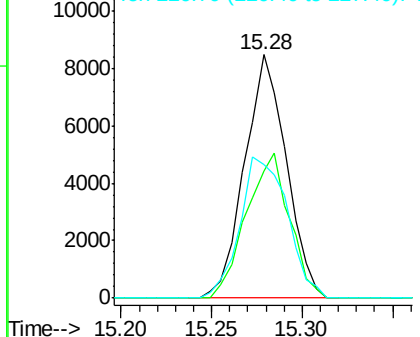


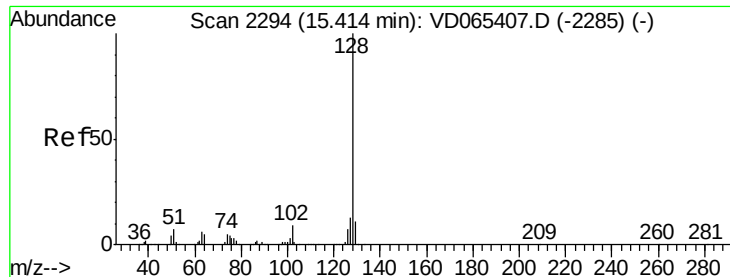
#94  
 Hexachlorobutadiene  
 Concen: 3.793 ug/l  
 RT: 15.28 min Scan# 2271  
 Delta R.T. -0.01 min  
 Lab File: VD065434.D  
 Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.6  | 30.9  | 92.5  |
| 227     | 65.9  | 31.6  | 94.7  |



Abundance Ion 224.70 (224.40 to 225.40): V  
 Ion 222.70 (222.40 to 223.40): V  
 Ion 226.70 (226.40 to 227.40): V





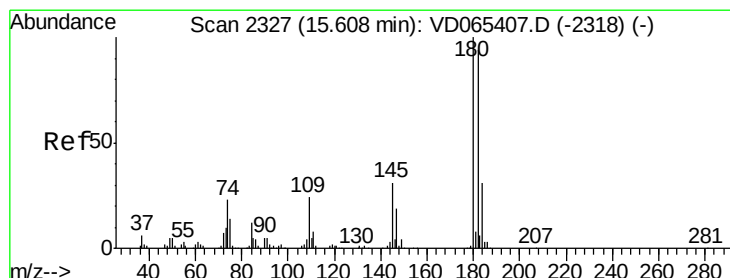
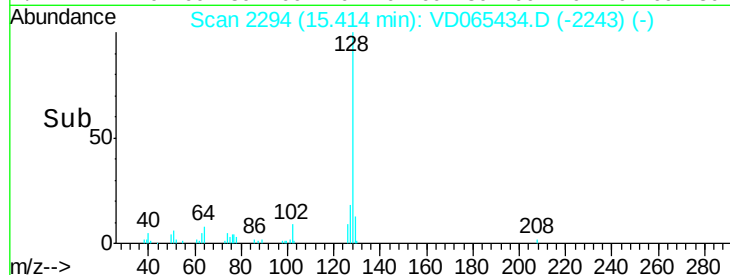
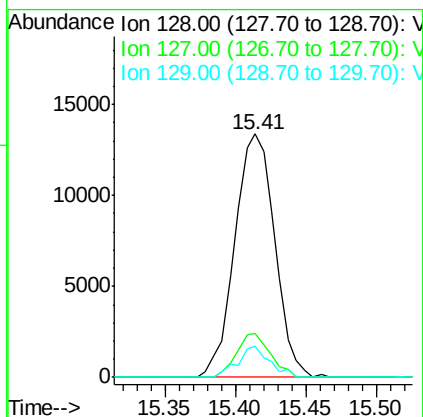
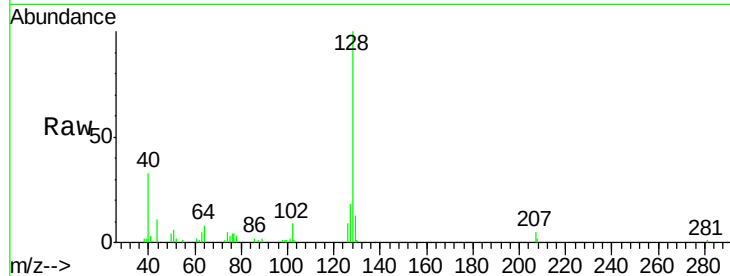
#95  
Naphthalene  
Concen: 3.037 ug/l  
RT: 15.41 min Scan# 2294  
Delta R.T. 0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-03-QT1-2020DL

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 26460 |       |       |
| 127     | 15.2  |       | 10.6  | 16.0  |
| 129     | 10.1  |       | 8.7   | 13.1  |

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#96  
1,2,3-Trichlorobenzene  
Concen: 3.538 ug/l  
RT: 15.61 min Scan# 2327  
Delta R.T. -0.00 min  
Lab File: VD065434.D  
Acq: 05 Mar 2020 16:37

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 16657 |       |       |
| 182     | 101.3 |       | 46.9  | 140.6 |
| 145     | 31.2  |       | 15.0  | 45.1  |

