

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN103119\  
 Data File : VN059028.D  
 Acq On : 31 Oct 2019 10:33  
 Operator : JC/SP  
 Sample : VN1031WBSD01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 11/4/2019 7:04:10 AM

Quant Time: Nov 01 00:37:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 396445   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 630477   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 576557   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 267243   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 272604   | 46.88 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.76% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 205358   | 49.54 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.08% |      |
| 50) Toluene-d8            | 10.08  | 98  | 767685   | 47.71 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.42% |      |
| 62) 4-Bromofluorobenzene  | 12.41  | 95  | 284887   | 48.21 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.42% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 87022   | 17.606  | ug/l | 100    |
| 3) Chloromethane              | 2.04 | 50  | 116759  | 19.073  | ug/l | 98     |
| 4) Vinyl Chloride             | 2.17 | 62  | 119158  | 19.604  | ug/l | 100    |
| 5) Bromomethane               | 2.54 | 94  | 69899   | 18.364  | ug/l | 94     |
| 6) Chloroethane               | 2.68 | 64  | 71998   | 18.471  | ug/l | 96     |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 146942  | 19.538  | ug/l | 99     |
| 8) Diethyl Ether              | 3.39 | 74  | 55400   | 21.316  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101 | 84982   | 20.382  | ug/l | 97     |
| 10) Methyl Iodide             | 3.93 | 142 | 100069  | 18.248  | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.76 | 59  | 111983  | 116.058 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.71 | 96  | 79263   | 20.281  | ug/l | 97     |
| 13) Acrolein                  | 3.59 | 56  | 46048   | 69.456  | ug/l | 99     |
| 14) Allyl chloride            | 4.30 | 41  | 166852  | 21.098  | ug/l | 96     |
| 15) Acrylonitrile             | 4.96 | 53  | 287348  | 118.392 | ug/l | 98     |
| 16) Acetone                   | 3.79 | 43  | 307554  | 107.043 | ug/l | 96     |
| 17) Carbon Disulfide          | 4.03 | 76  | 219862  | 17.464  | ug/l | 99     |
| 18) Methyl Acetate            | 4.30 | 43  | 153493  | 23.498  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 302579  | 22.111  | ug/l | 99     |
| 20) Methylene Chloride        | 4.53 | 84  | 99803   | 20.343  | ug/l | 94     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 86971   | 20.151  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.93 | 45  | 342014  | 22.110  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.87 | 43  | 1410775 | 113.517 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 186527  | 20.796  | ug/l | 99     |
| 25) 2-Butanone                | 6.81 | 43  | 410745  | 110.129 | ug/l | 99     |
| 26) 2,2-Dichloropropane       | 6.80 | 77  | 158119  | 20.381  | ug/l | 97     |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96  | 105741  | 21.446  | ug/l | 96     |
| 28) Bromochloromethane        | 7.17 | 49  | 58501   | 19.584  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.19 | 42  | 262669  | 115.126 | ug/l | 99     |
| 30) Chloroform                | 7.35 | 83  | 182240  | 20.255  | ug/l | 98     |
| 31) Cyclohexane               | 7.63 | 56  | 160496  | 19.207  | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 155054  | 20.446  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.78 | 75  | 128874  | 19.966  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.91 | 43  | 163168  | 23.200  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 133584  | 20.089  | ug/l | 98     |

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 Sample : VN1031WBSD01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1031WBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 11/4/2019 7:04:10 AM

Quant Time: Nov 01 00:37:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.07  | 83   | 142683   | 19.687  | ug/l   | 98       |
| 40) Benzene                    | 8.02  | 78   | 400000   | 21.103  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.16  | 41   | 69098m   | 22.059  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.11  | 62   | 145667   | 19.950  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.15  | 43   | 249448   | 22.115  | ug/l # | 93       |
| 44) Trichloroethene            | 8.82  | 130  | 96268    | 20.850  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 110189   | 21.200  | ug/l   | 99       |
| 46) Dibromomethane             | 9.20  | 93   | 69741    | 21.225  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.39  | 83   | 141049   | 20.828  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.19  | 41   | 112587   | 22.000  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.19  | 88   | 39237    | 467.051 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 797419   | 121.033 | ug/l   | 100      |
| 52) Toluene                    | 10.15 | 92   | 239807   | 21.335  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 157874   | 21.058  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 170751   | 21.318  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 101284   | 21.874  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 151143   | 20.714  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 172287   | 21.199  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 310072   | 97.930  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 595047   | 116.880 | ug/l   | 98       |
| 60) Dibromochloromethane       | 10.90 | 129  | 106049   | 21.278  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 101266   | 21.370  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 84324    | 20.884  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.43 | 112  | 255603   | 21.776  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 99218    | 22.400  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.51 | 91   | 460653   | 22.372  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.62 | 106  | 332200   | 43.504  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 160852   | 22.087  | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 264271   | 20.698  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 75402    | 21.953  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 442023   | 22.632  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 197986   | 22.361  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 157394   | 22.919  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 141030m  | 22.770  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 107609   | 22.354  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.60 | 91   | 519710   | 22.512  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 311962   | 22.079  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 371204   | 22.622  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 51864    | 21.814  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 316460   | 21.917  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.00 | 119  | 317364   | 22.617  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 366617   | 22.652  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 421094   | 22.509  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 372697   | 22.578  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 187870   | 21.826  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 186164   | 21.602  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 326060   | 21.503  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 72894    | 21.792  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 187012   | 22.105  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 33964    | 21.866  | ug/l   | 98       |

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Operator : JC/SP  
Sample : VN1031WBSD01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Manual Integrations  
APPROVED

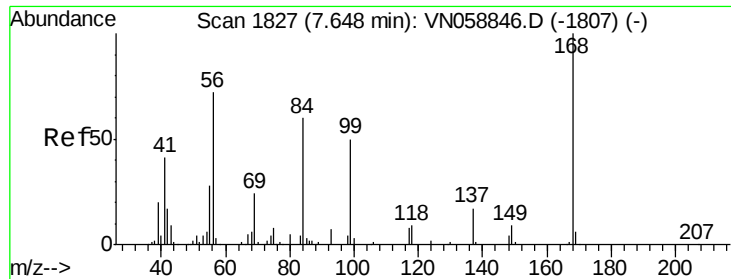
MMDadoda  
11/4/2019 7:04:10 AM

Quant Time: Nov 01 00:37:08 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.92 | 180  | 99923    | 20.337 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.02 | 225  | 61698    | 22.500 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 280840   | 19.755 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 102333   | 21.186 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampled :

VN1031WBSD01

Tgt Ion: 168 Resp: 396445

Ion Ratio Lower Upper

168 100

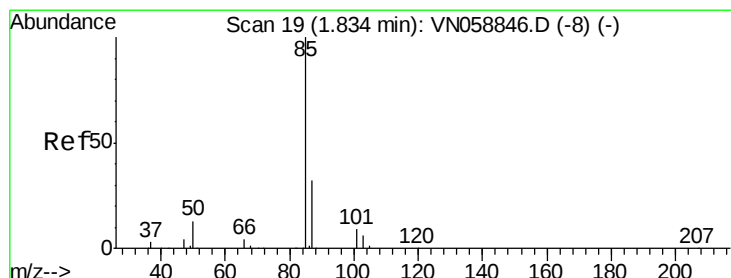
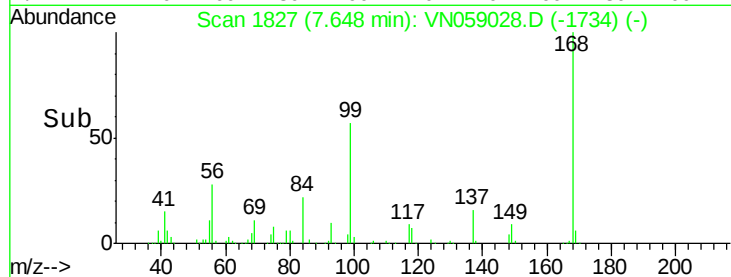
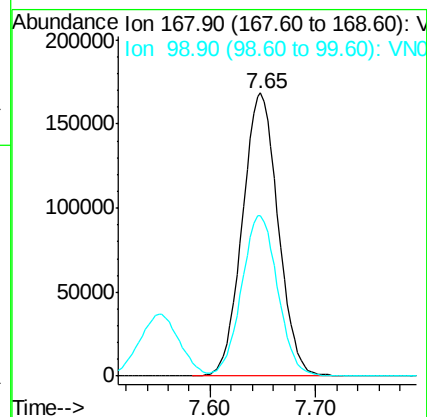
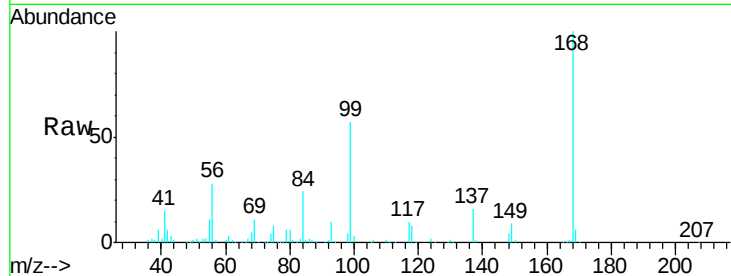
99 56.5 48.1 72.1

Manual Integrations

APPROVED

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11/4/2019 7:04:10 AM



#2

Dichlorodifluoromethane

Concen: 17.606 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059028.D

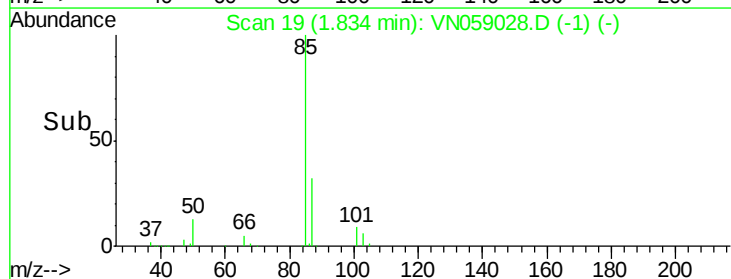
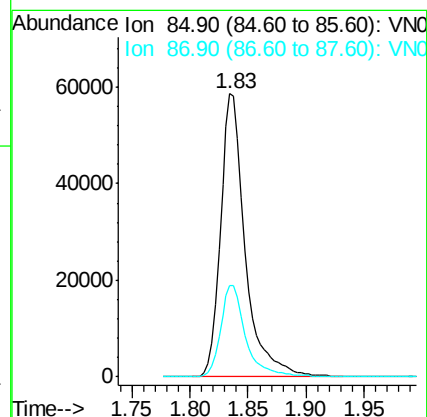
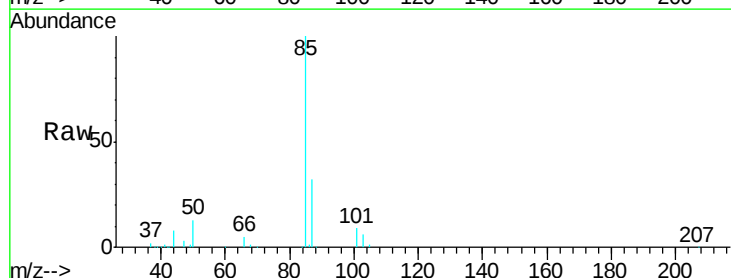
Acq: 31 Oct 2019 10:33

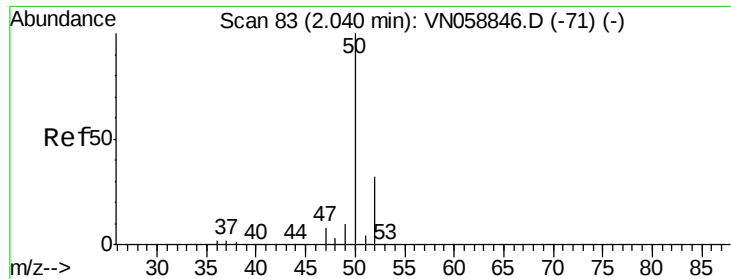
Tgt Ion: 85 Resp: 87022

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.5





#3

Chloromethane

Concen: 19.073 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 50 Resp: 116759

Ion Ratio Lower Upper

50 100

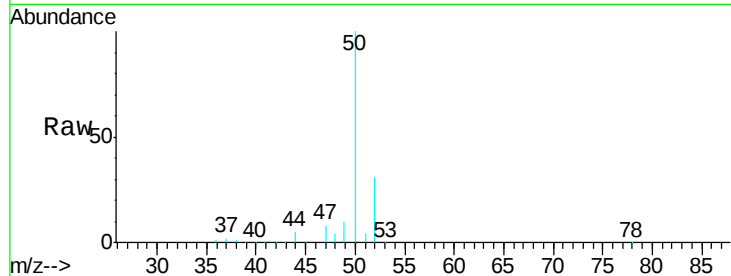
52 31.1 25.7 38.5

Manual Integrations

APPROVED

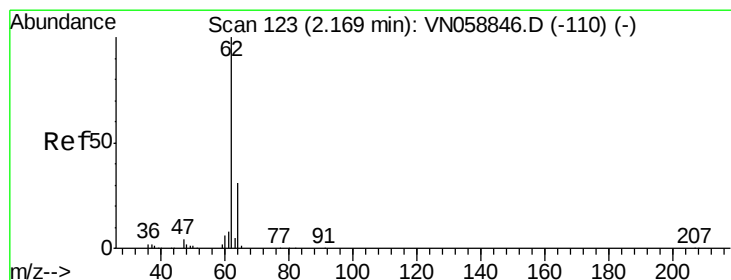
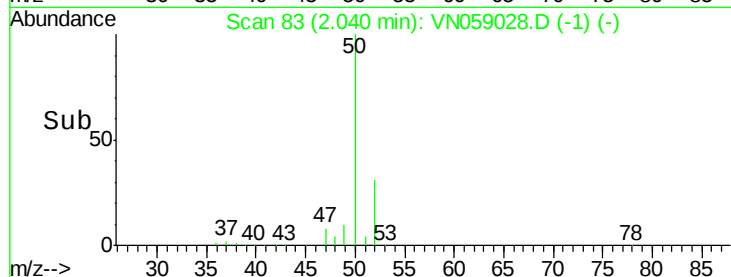
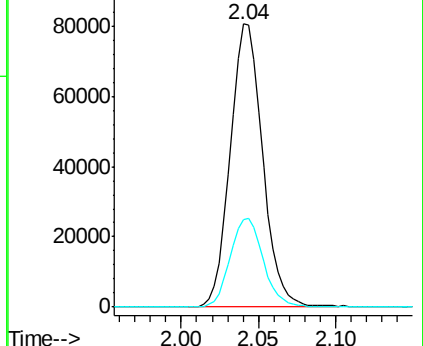
MMDadoda

11/4/2019 7:04:10 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.604 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059028.D

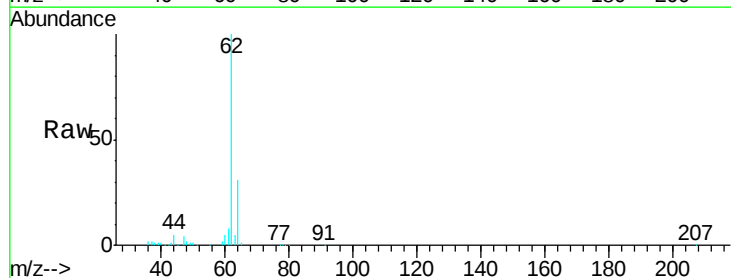
Acq: 31 Oct 2019 10:33

Tgt Ion: 62 Resp: 119158

Ion Ratio Lower Upper

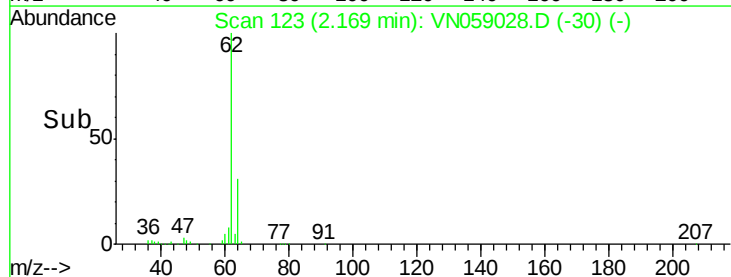
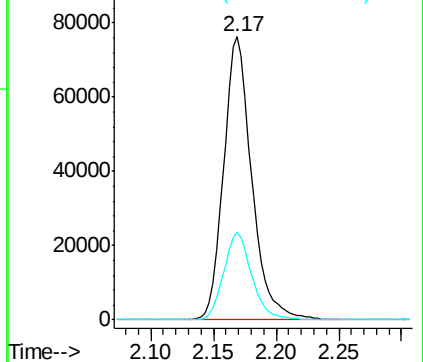
62 100

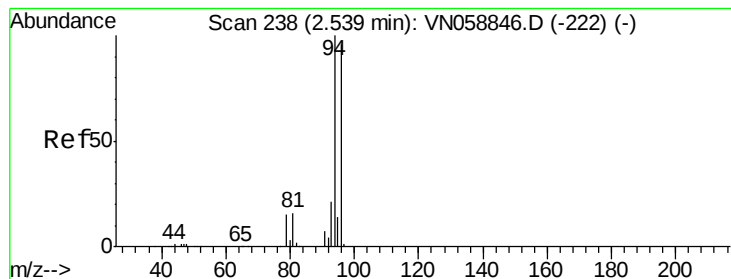
64 30.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 18.364 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 94 Resp: 69899

Ion Ratio Lower Upper

94 100

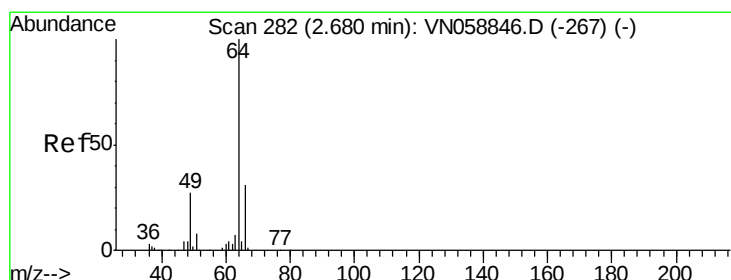
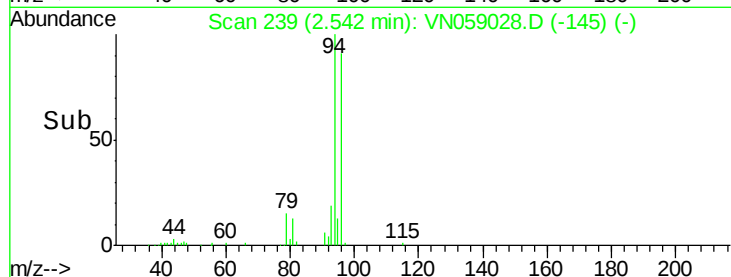
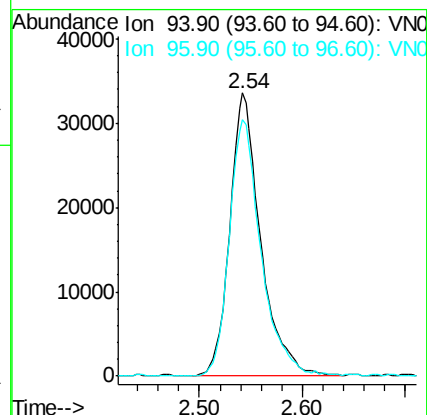
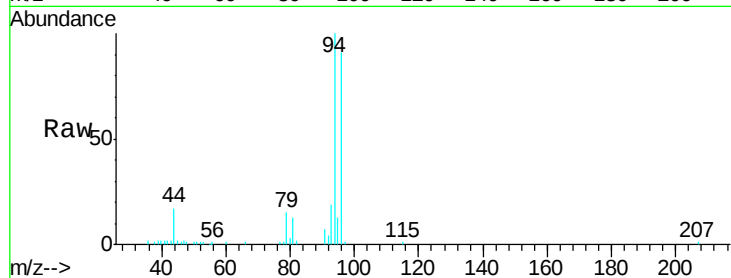
96 90.6 77.0 115.6

Manual Integrations

APPROVED

MMDadoda

11/4/2019 7:04:10 AM



#6

Chloroethane

Concen: 18.471 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059028.D

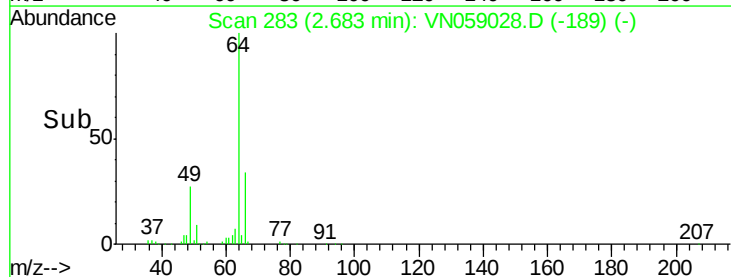
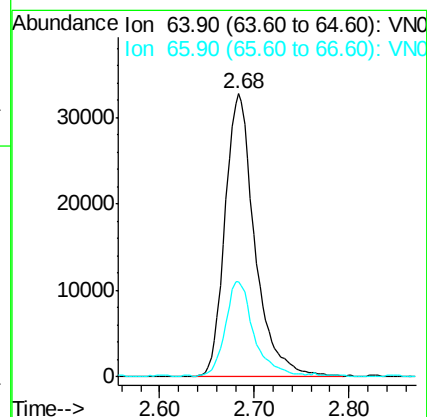
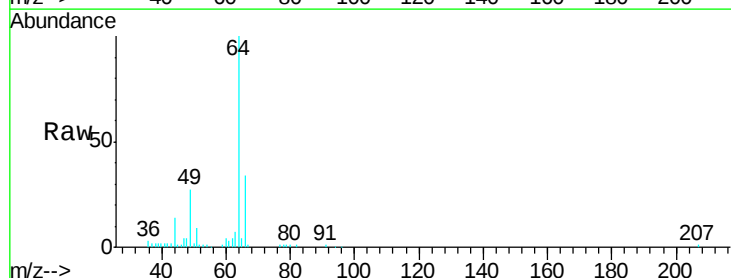
Acq: 31 Oct 2019 10:33

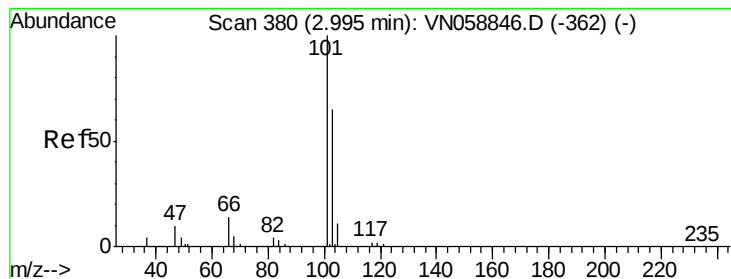
Tgt Ion: 64 Resp: 71998

Ion Ratio Lower Upper

64 100

66 33.6 25.0 37.4





#7

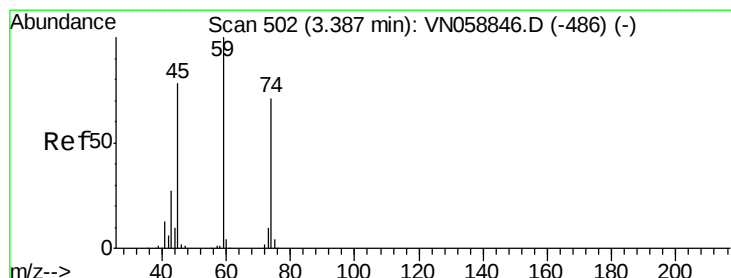
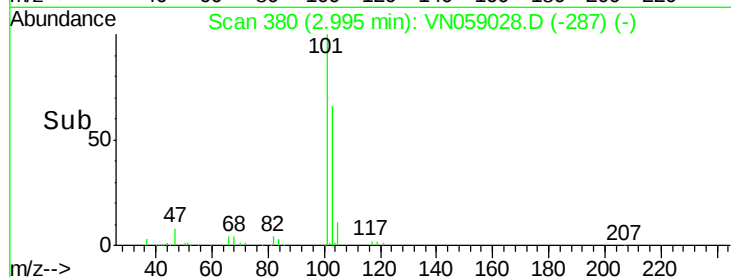
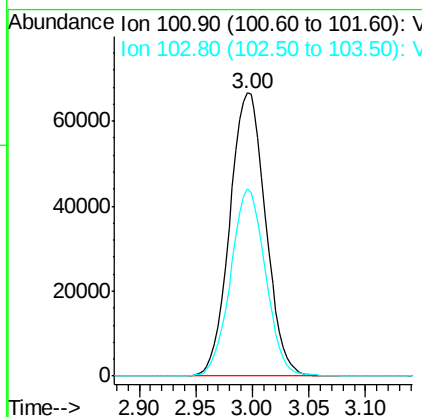
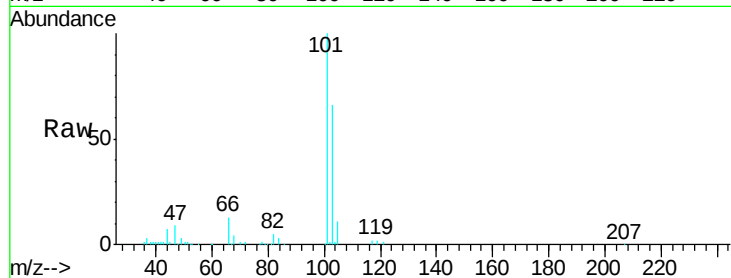
Trichlorofluoromethane  
Concen: 19.538 ug/l  
RT: 3.00 min Scan# 380  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 66.0  | 52.2  | 78.2  |

Manual Integrations  
APPROVED

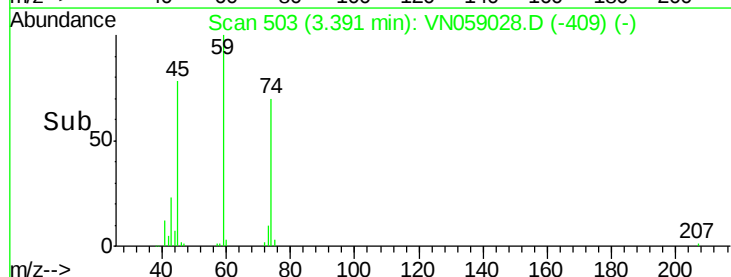
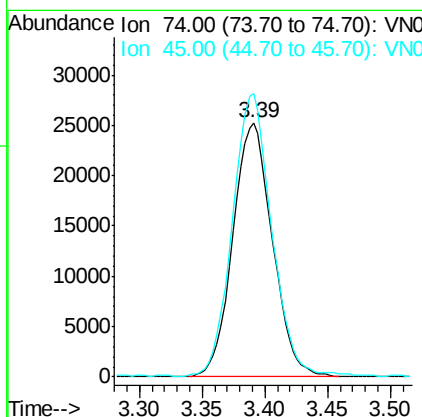
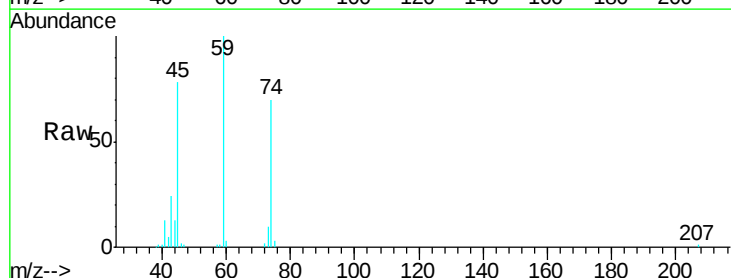
MMDadoda  
11/4/2019 7:04:10 AM

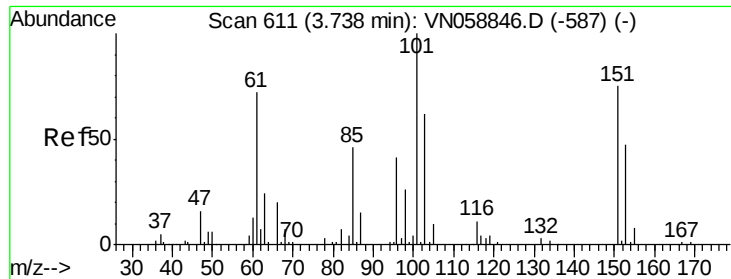


#8

Diethyl Ether  
Concen: 21.316 ug/l  
RT: 3.39 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 111.3 | 54.9  | 164.5 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.382 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

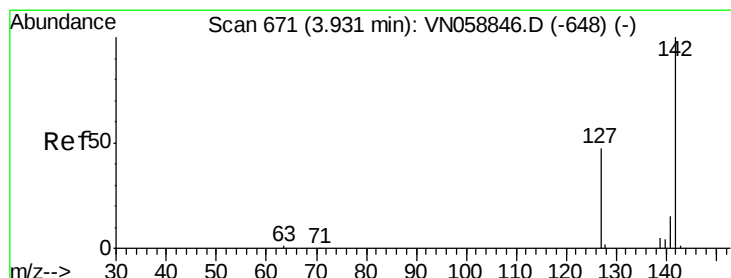
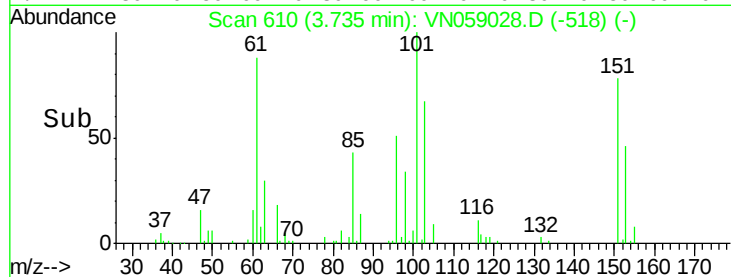
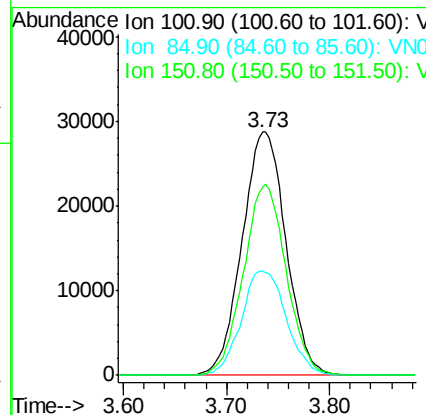
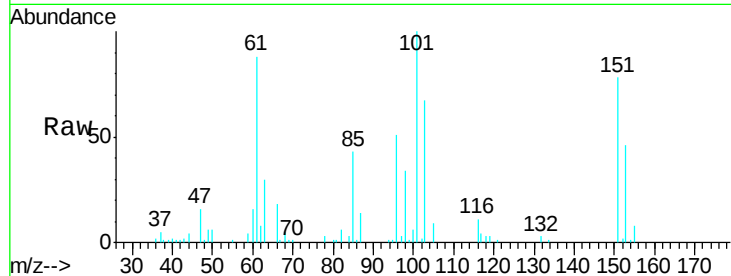
ClientSampleId :

VN1031WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 101   | Resp: | 84982 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 43.9  | 37.2  | 55.8  |
| 151       | 76.3  | 59.9  | 89.9  |

Manual Integrations  
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11/4/2019 7:04:10 AM



#10

Methyl Iodide

Concen: 18.248 ug/l

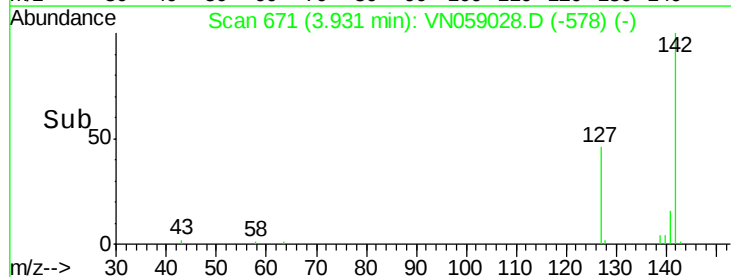
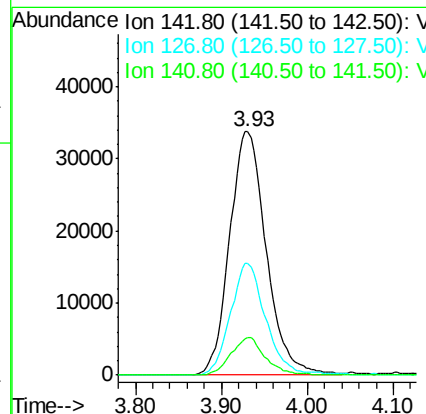
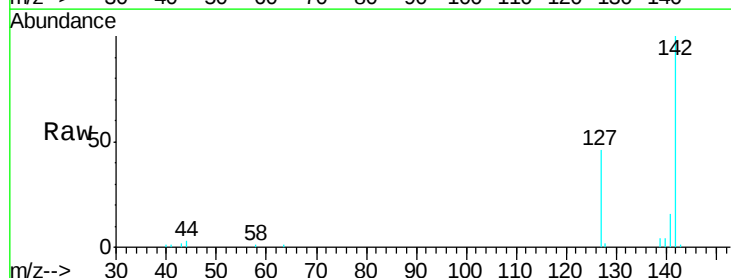
RT: 3.93 min Scan# 671

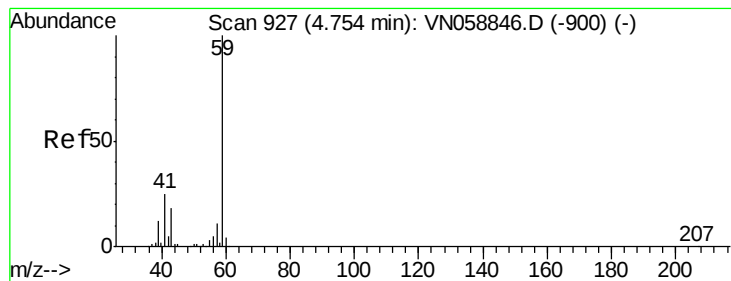
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 100069 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 43.7  | 36.6  | 54.8   |
| 141       | 14.3  | 11.4  | 17.2   |





#11

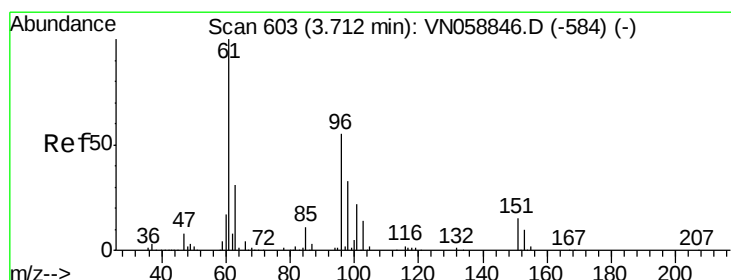
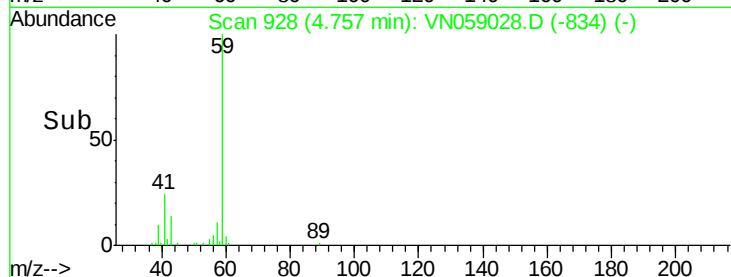
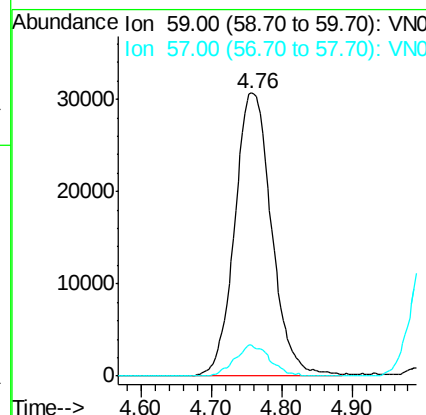
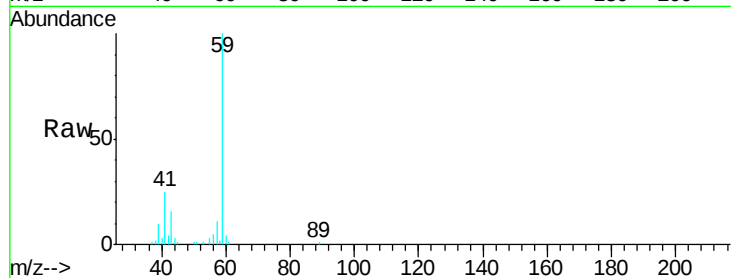
Tert butyl alcohol  
Concen: 116.058 ug/l  
RT: 4.76 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 59      | 100   | 111983 |       |       |
| 57      | 10.4  |        | 8.6   | 12.8  |

Manual Integrations  
APPROVED

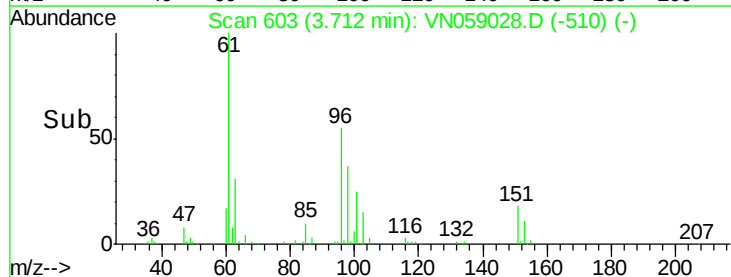
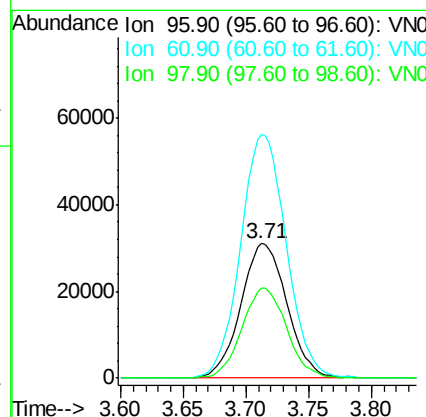
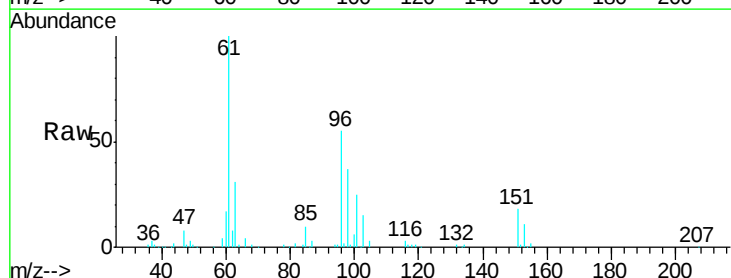
MMDadoda  
11/4/2019 7:04:10 AM

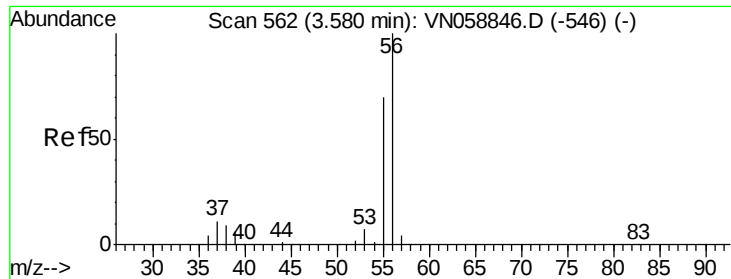


#12

1,1-Dichloroethene  
Concen: 20.281 ug/l  
RT: 3.71 min Scan# 603  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 79263 |       |       |
| 61      | 181.1 |       | 146.2 | 219.2 |
| 98      | 66.8  |       | 48.7  | 73.1  |





#13

Acrolein

Concen: 69.456 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 56 Resp: 46048

Ion Ratio Lower Upper

56 100

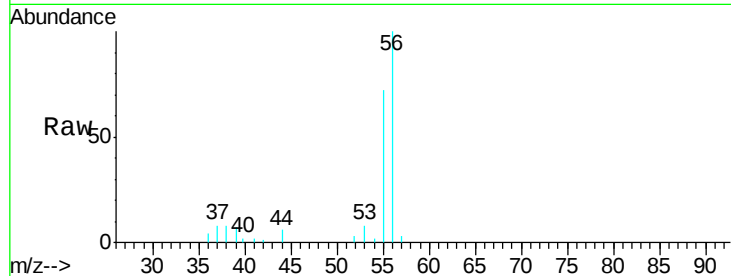
55 70.1 56.6 85.0

Manual Integrations

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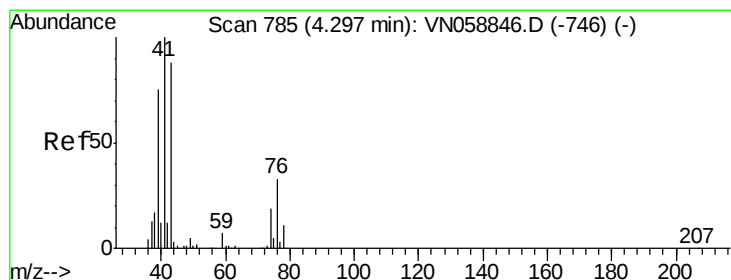
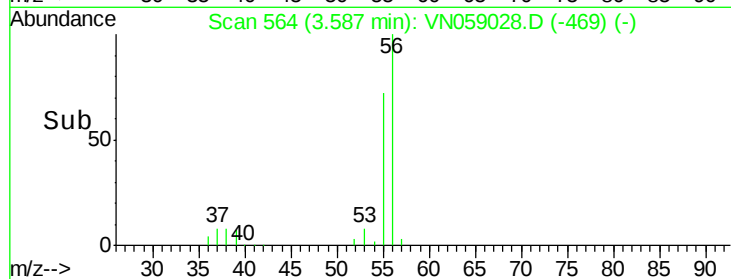
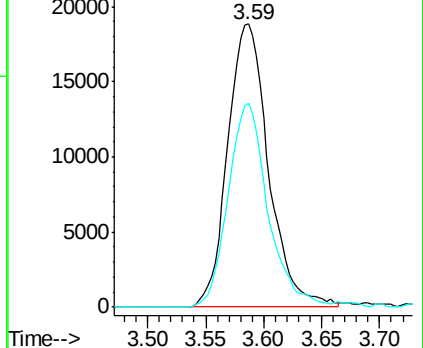
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 21.098 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

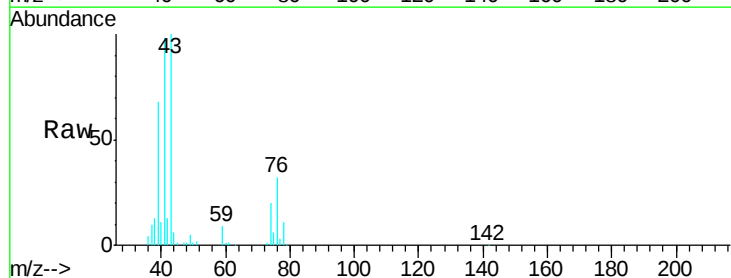
Tgt Ion: 41 Resp: 166852

Ion Ratio Lower Upper

41 100

39 64.8 55.9 83.9

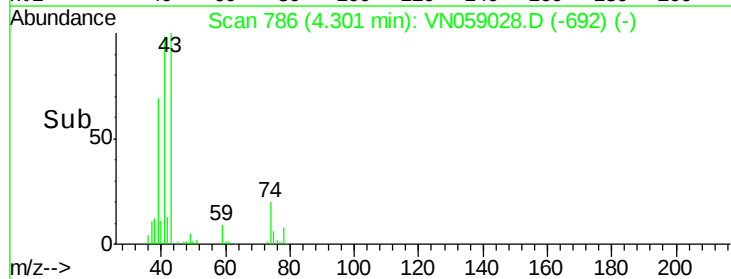
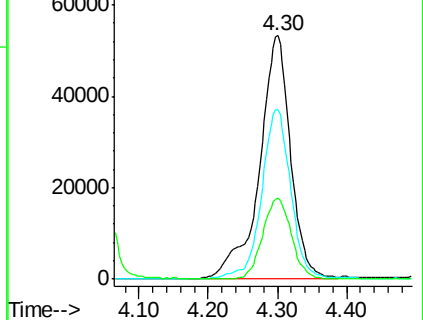
76 30.3 24.1 36.1

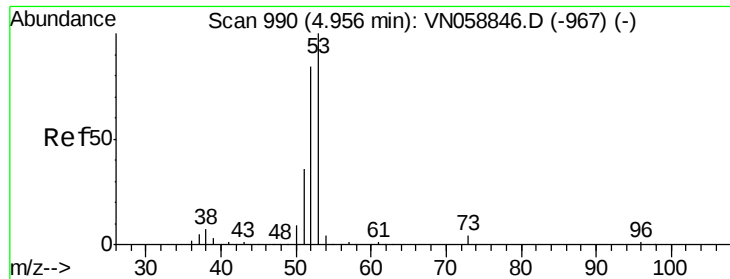


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 118.392 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

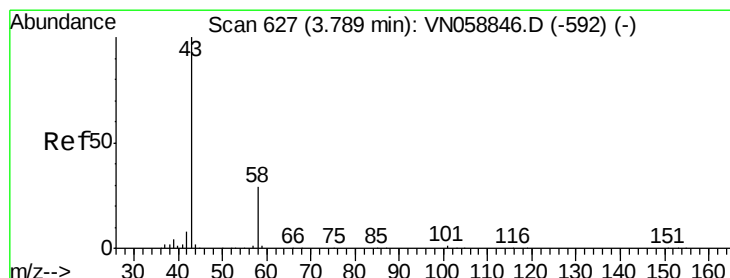
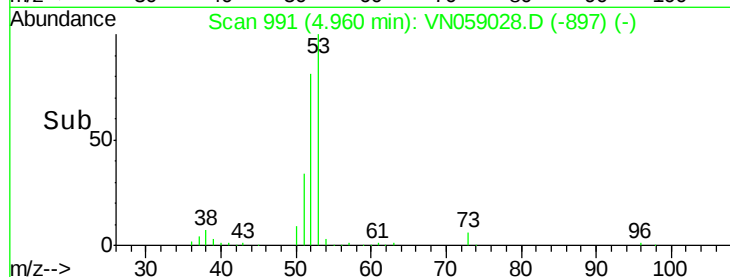
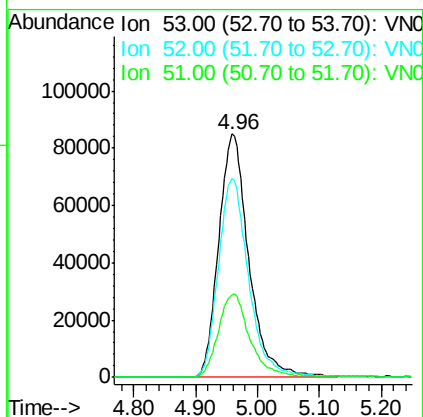
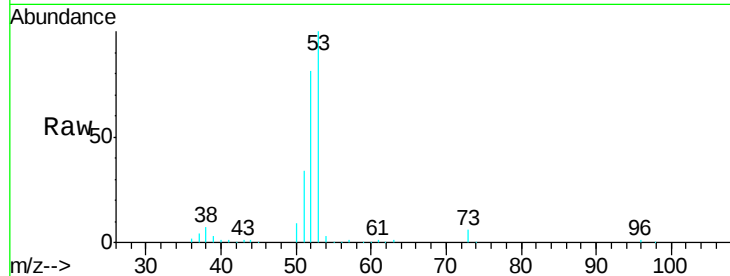
ClientSampleId :

VN1031WBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 53    | Resp: | 287348 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 82.0  | 66.6  | 99.8   |
| 51       | 35.4  | 29.2  | 43.8   |

Manual Integrations  
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#16

Acetone

Concen: 107.043 ug/l

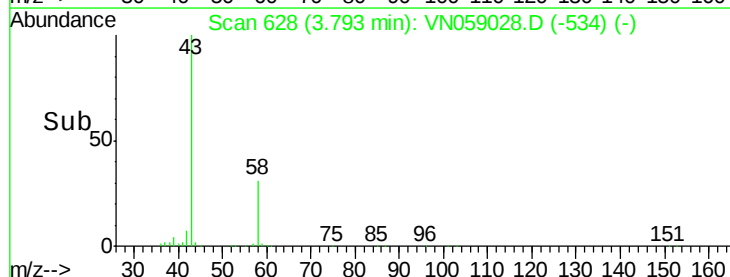
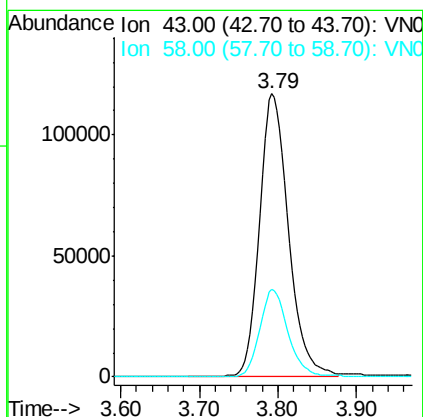
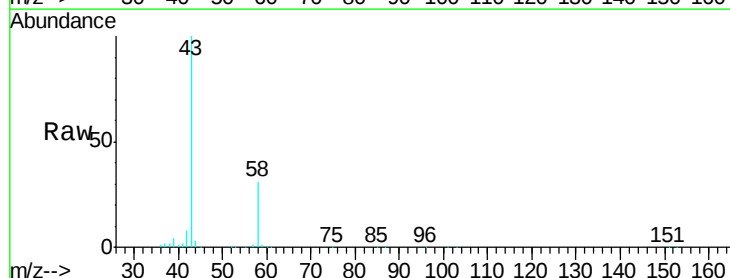
RT: 3.79 min Scan# 628

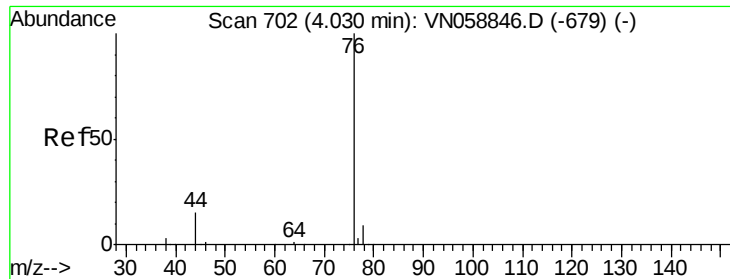
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 307554 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 30.9  | 23.1  | 34.7   |





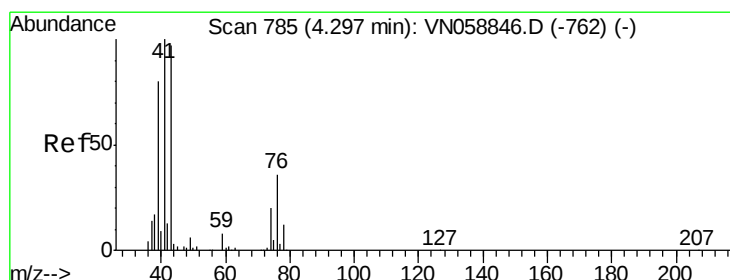
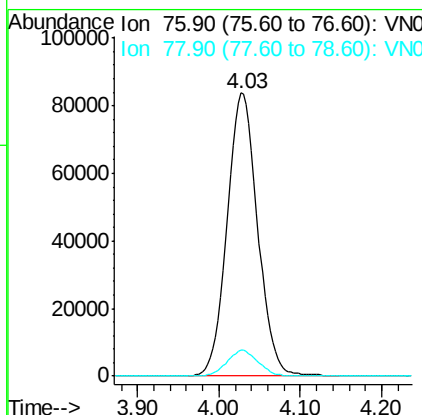
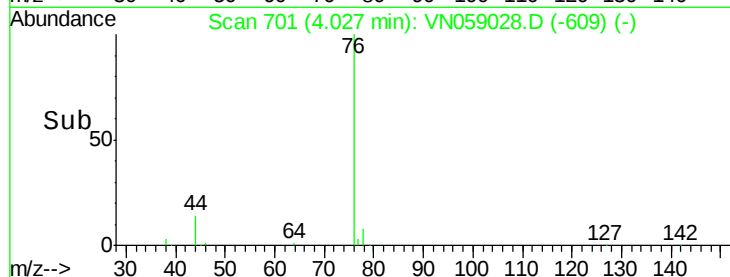
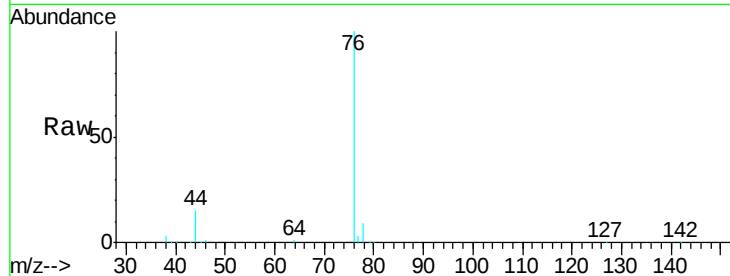
#17  
Carbon Disulfide  
Concen: 17.464 ug/l  
RT: 4.03 min Scan# 701  
Delta R.T. -0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 76 Resp: 219862  
Ion Ratio Lower Upper  
76 100  
78 9.3 7.1 10.7

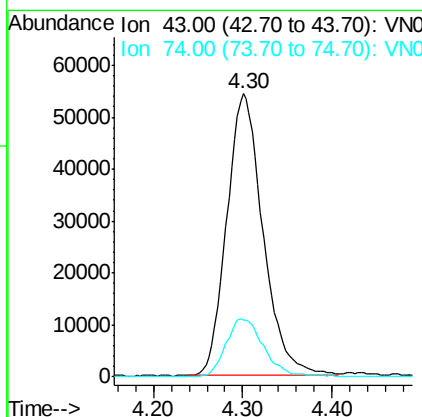
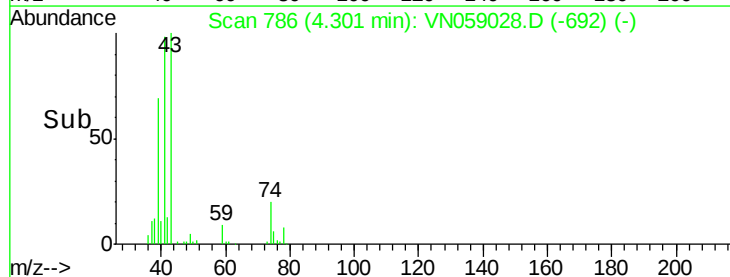
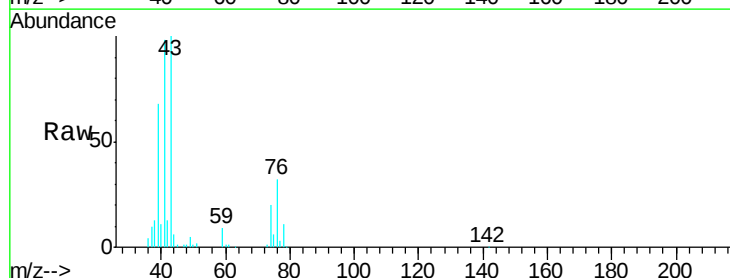
Manual Integrations  
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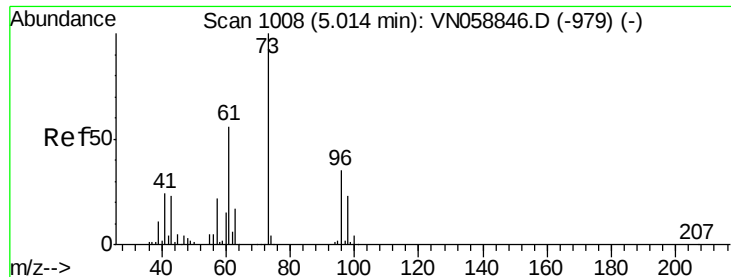
MMDadoda  
11/4/2019 7:04:10 AM



#18  
Methyl Acetate  
Concen: 23.498 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 43 Resp: 153493  
Ion Ratio Lower Upper  
43 100  
74 21.3 17.1 25.7





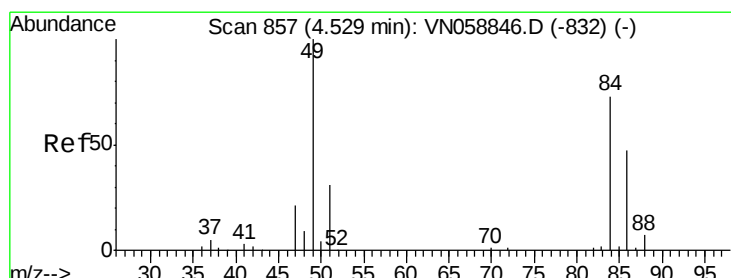
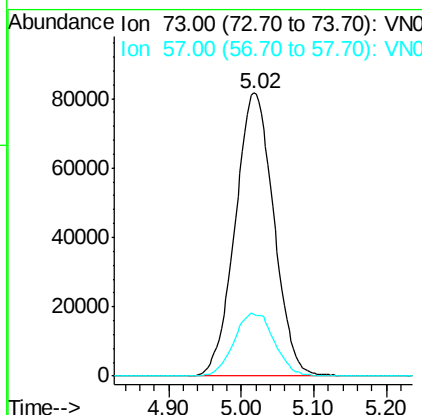
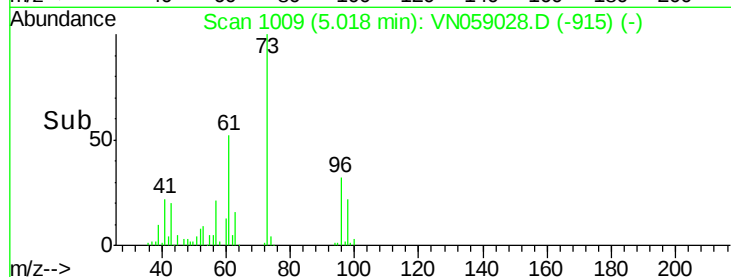
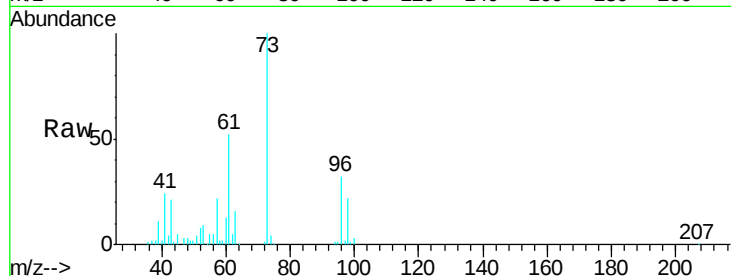
#19  
Methyl tert-butyl Ether  
Concen: 22.111 ug/l  
RT: 5.02 min Scan# 1009  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 73 Resp: 302579  
Ion Ratio Lower Upper  
73 100  
57 21.7 17.9 26.9

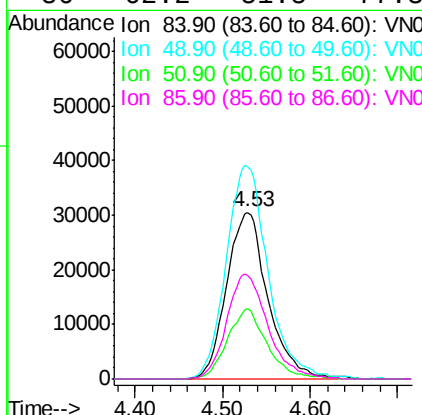
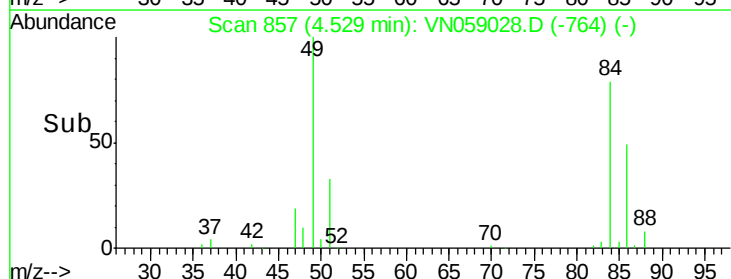
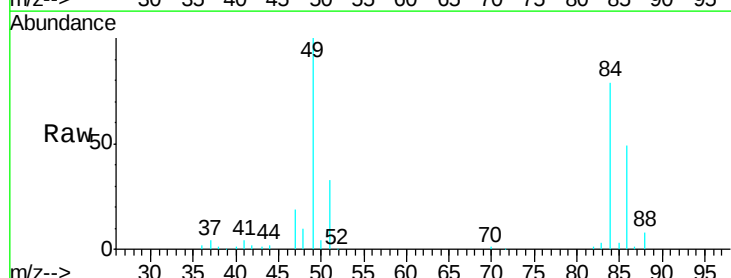
Manual Integrations  
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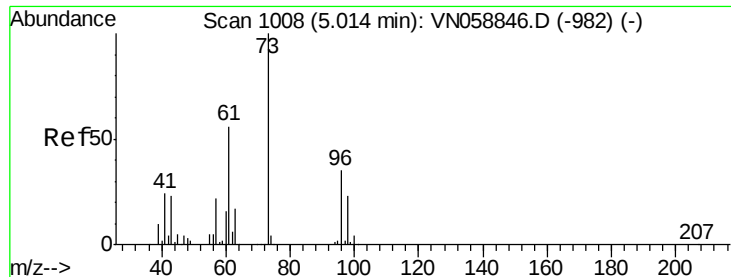
MMDadoda  
11/4/2019 7:04:10 AM



#20  
Methylene Chloride  
Concen: 20.343 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 84 Resp: 99803  
Ion Ratio Lower Upper  
84 100  
49 126.7 109.6 164.4  
51 42.3 33.8 50.6  
86 62.2 51.5 77.3





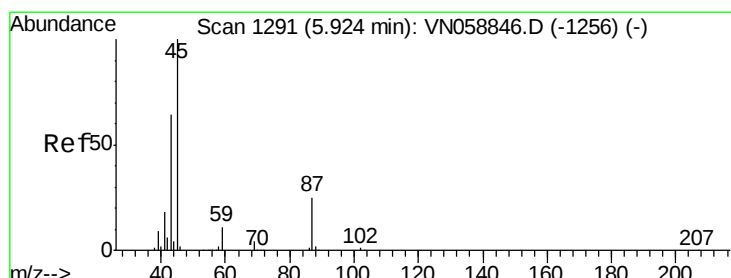
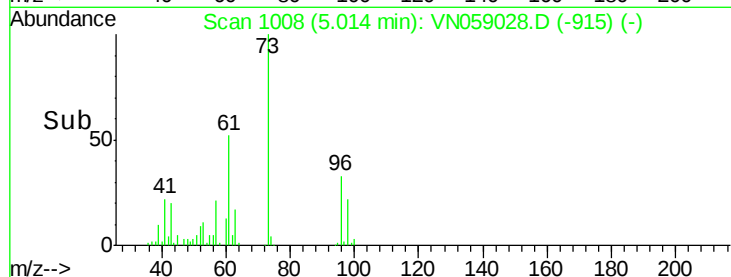
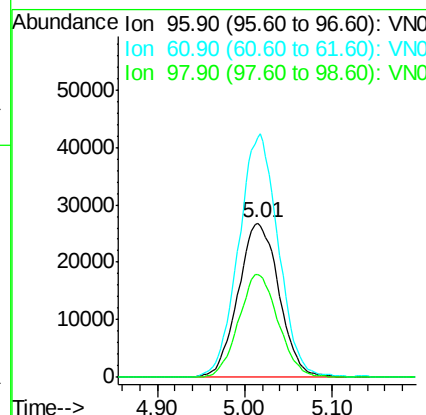
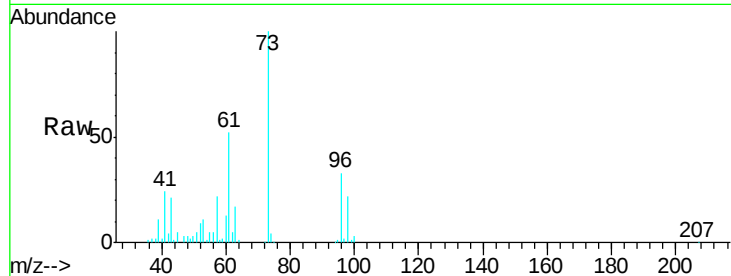
#21  
trans-1,2-Dichloroethene  
Concen: 20.151 ug/l  
RT: 5.01 min Scan# 1008  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 96 Resp: 86971  
Ion Ratio Lower Upper  
96 100  
61 155.7 126.7 190.1  
98 66.9 52.0 78.0

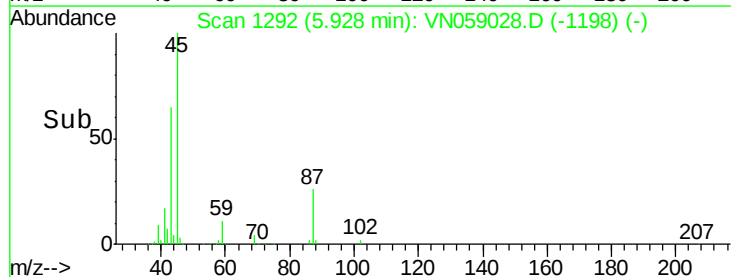
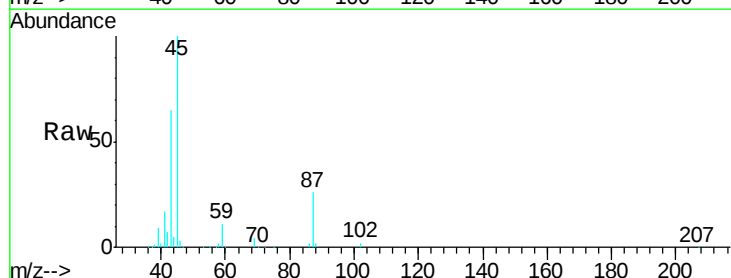
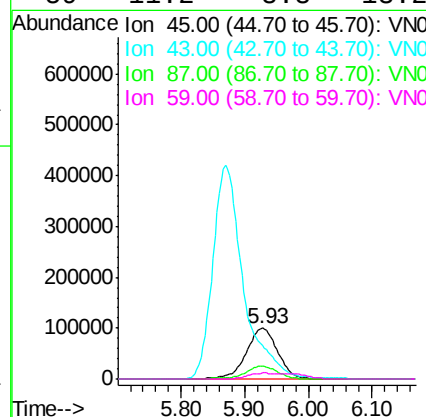
Manual Integrations  
APPROVED

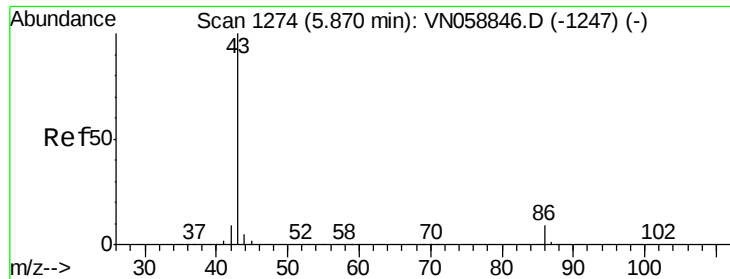
MMDadoda  
11/4/2019 7:04:10 AM



#22  
Diisopropyl ether  
Concen: 22.110 ug/l  
RT: 5.93 min Scan# 1292  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 45 Resp: 342014  
Ion Ratio Lower Upper  
45 100  
43 63.4 52.9 79.3  
87 25.7 20.2 30.4  
59 11.2 8.8 13.2





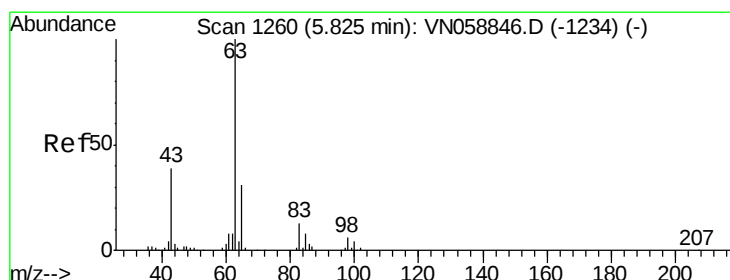
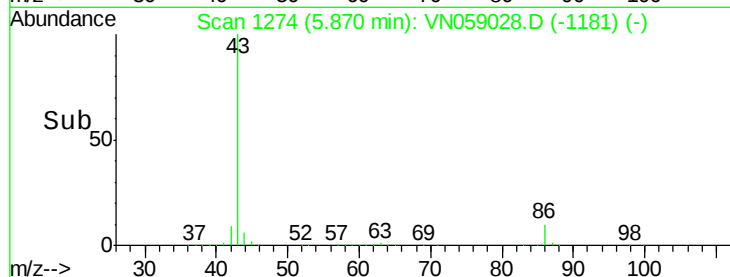
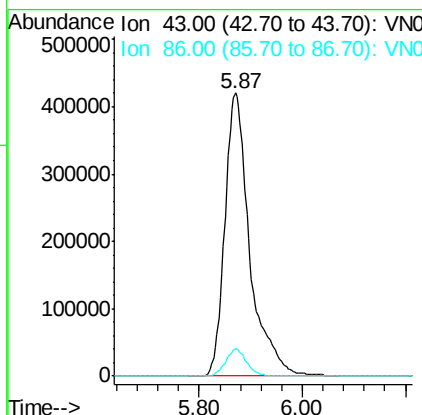
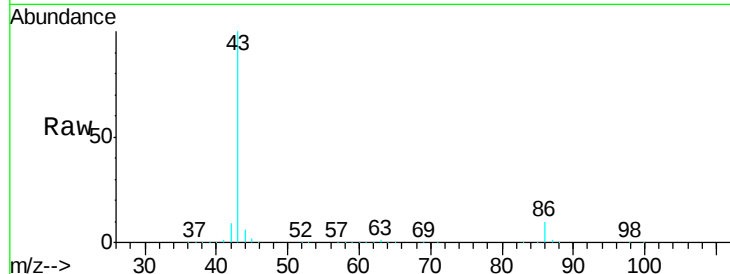
#23  
 Vinyl Acetate  
 Concen: 113.517 ug/l  
 RT: 5.87 min Scan# 1274  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

Tgt Ion: 43 Resp: 1410775  
 Ion Ratio Lower Upper  
 43 100  
 86 9.5 7.2 10.8

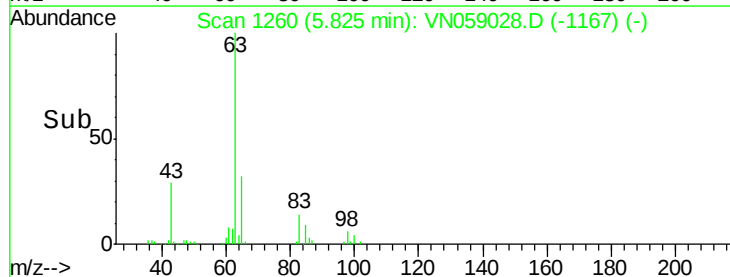
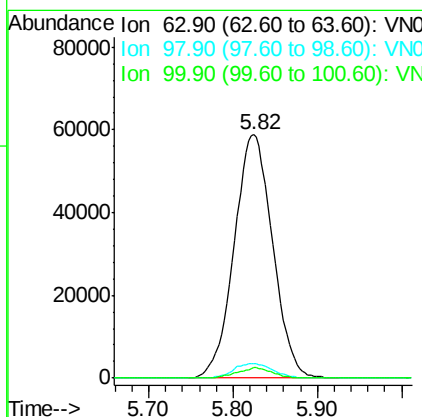
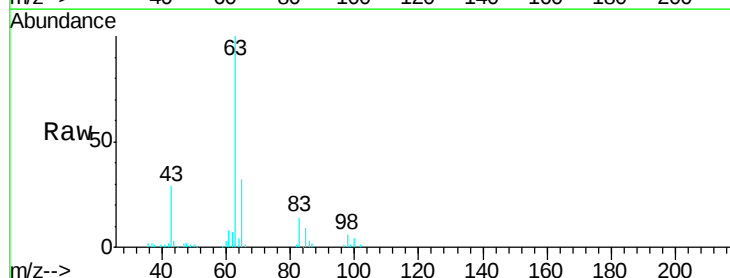
Manual Integrations  
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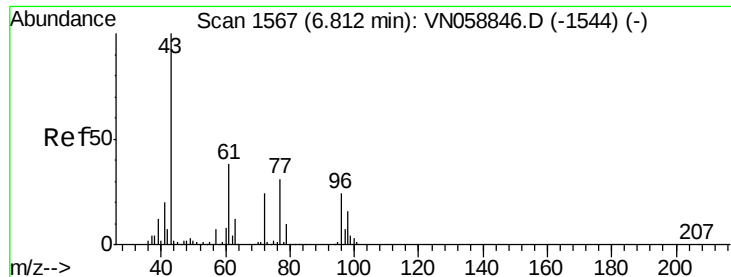
MMDadoda  
 11/4/2019 7:04:10 AM



#24  
 1,1-Dichloroethane  
 Concen: 20.796 ug/l  
 RT: 5.82 min Scan# 1260  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Tgt Ion: 63 Resp: 186527  
 Ion Ratio Lower Upper  
 63 100  
 98 6.0 2.8 8.4  
 100 4.2 1.9 5.7





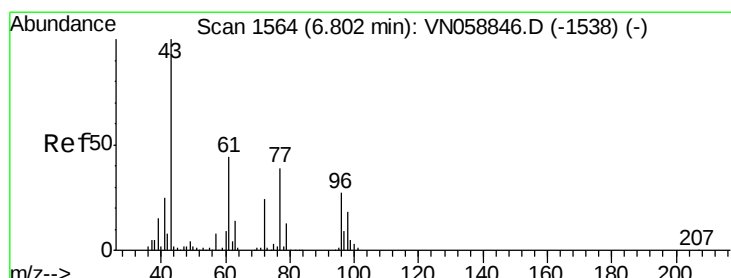
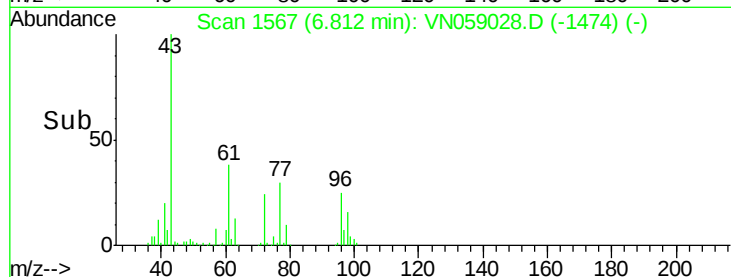
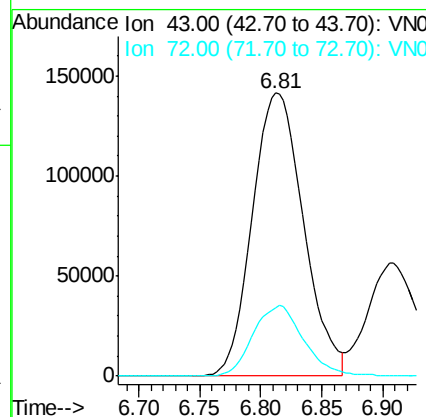
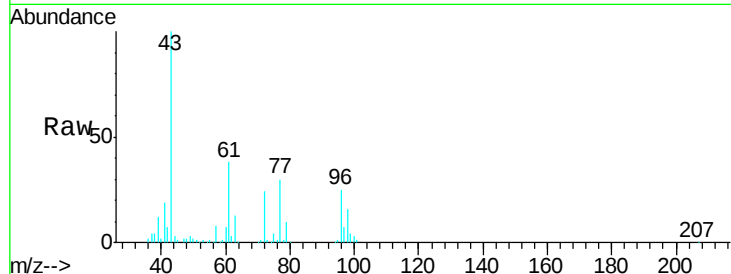
#25  
2-Butanone  
Concen: 110.129 ug/l  
RT: 6.81 min Scan# 1567  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 43 Resp: 410745  
Ion Ratio Lower Upper  
43 100  
72 24.4 19.1 28.7

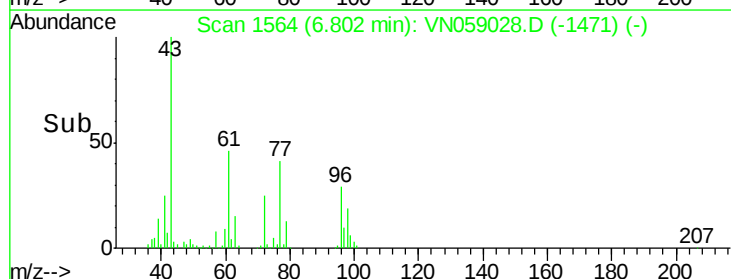
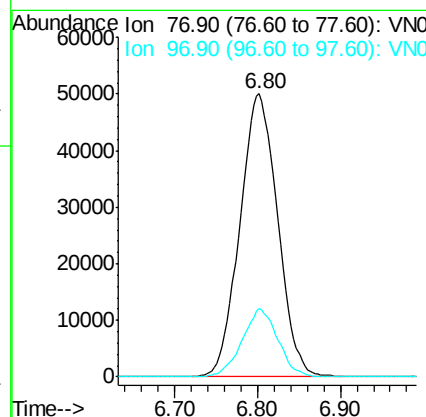
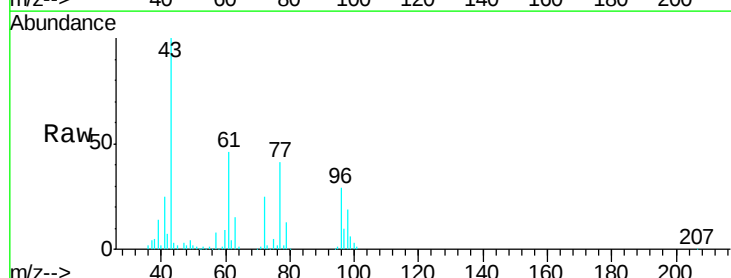
Manual Integrations  
APPROVED

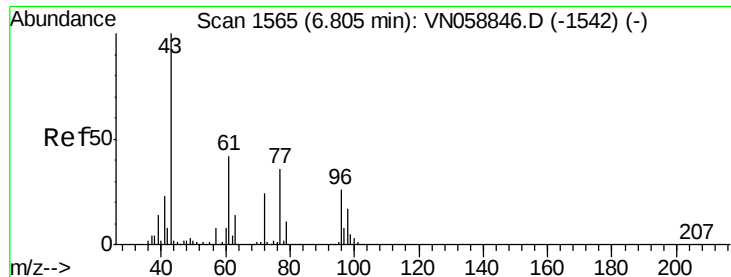
MMDadoda  
11/4/2019 7:04:10 AM



#26  
2,2-Dichloropropane  
Concen: 20.381 ug/l  
RT: 6.80 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 77 Resp: 158119  
Ion Ratio Lower Upper  
77 100  
97 22.8 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 21.446 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

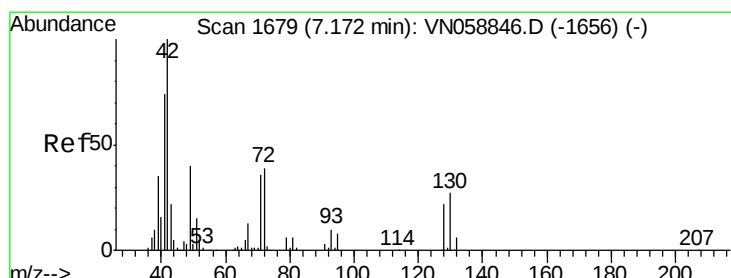
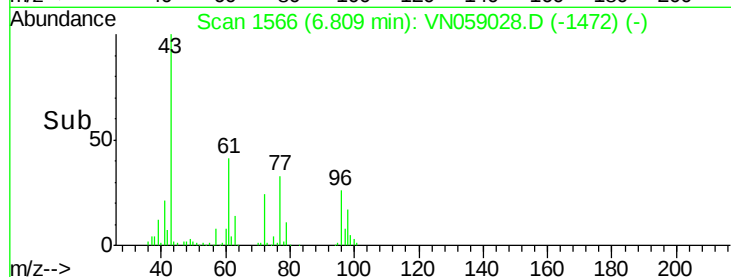
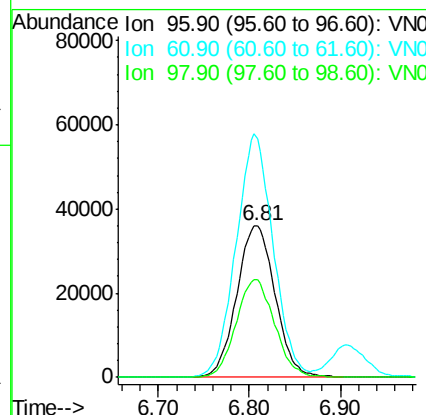
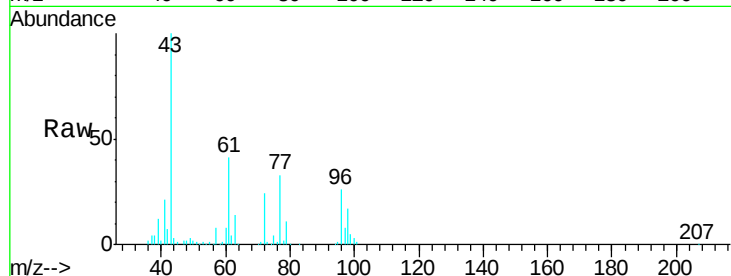
ClientSampleId :

VN1031WBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 105741 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 154.9 | 0.0   | 325.0  |
| 98       | 64.5  | 0.0   | 128.0  |

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11/4/2019 7:04:10 AM



#28

Bromochloromethane

Concen: 19.584 ug/l

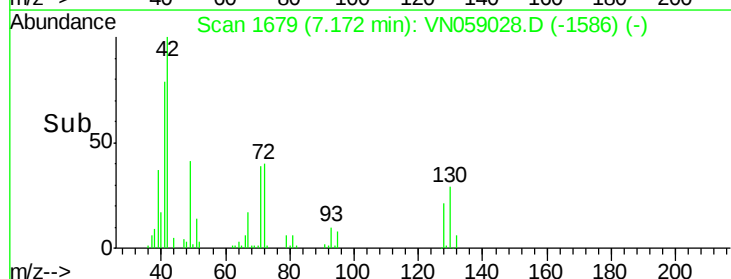
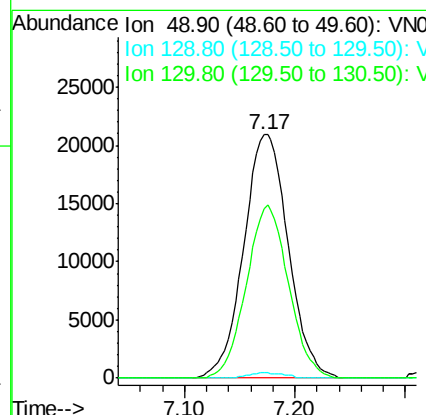
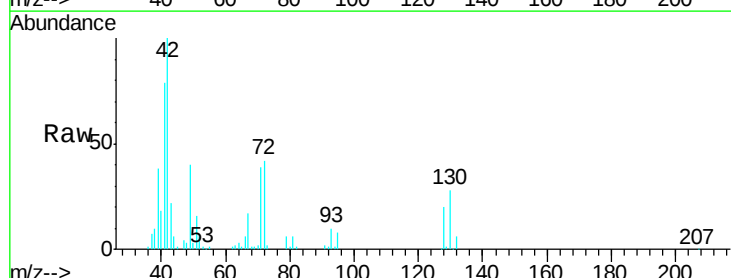
RT: 7.17 min Scan# 1679

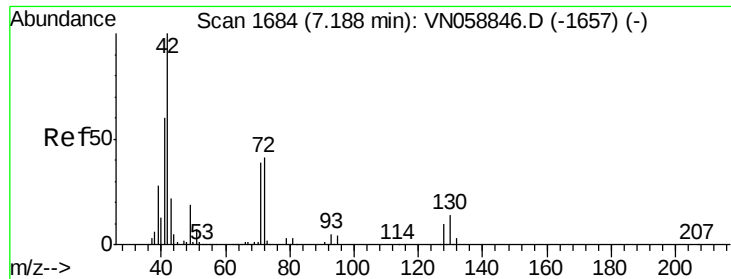
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 49    | Resp: | 58501 |
| Ion      | Ratio | Lower | Upper |
| 49       | 100   |       |       |
| 129      | 1.8   | 0.0   | 3.2   |
| 130      | 67.0  | 53.5  | 80.3  |





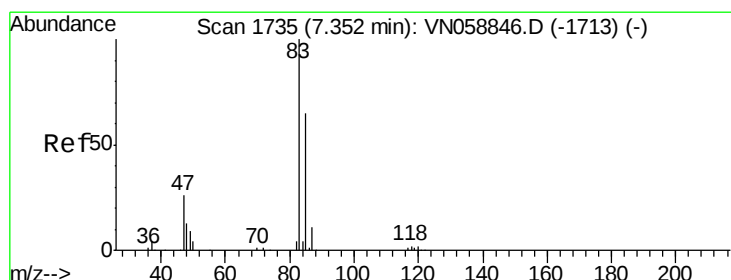
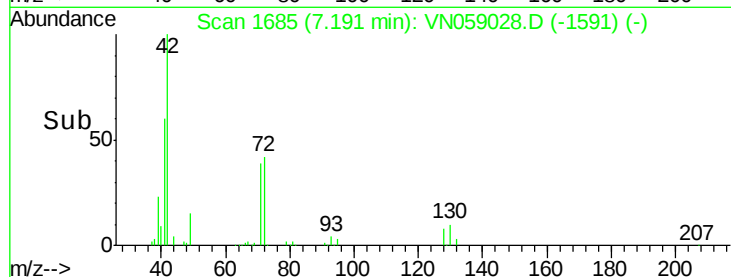
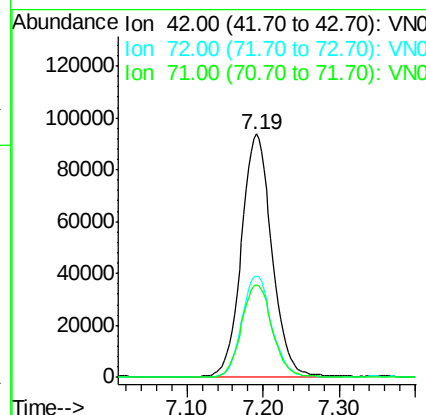
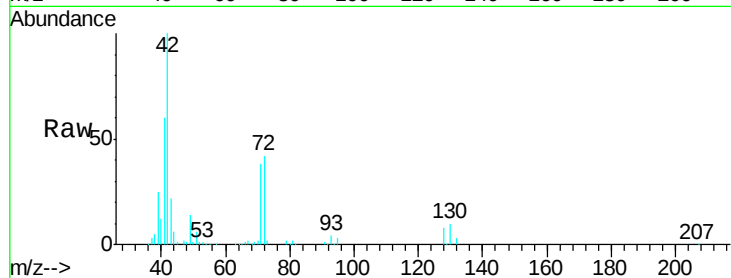
#29  
Tetrahydrofuran  
Concen: 115.126 ug/l  
RT: 7.19 min Scan# 1685  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 40.8  | 32.2  | 48.2  |
| 71      | 38.3  | 30.6  | 45.8  |

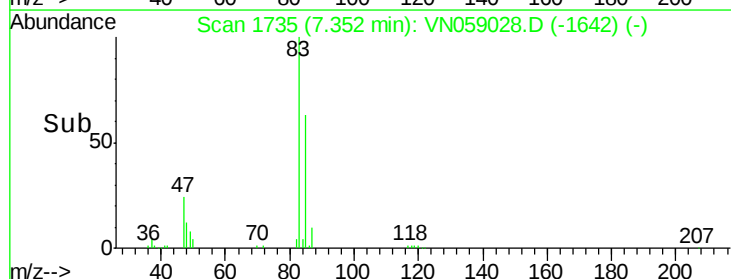
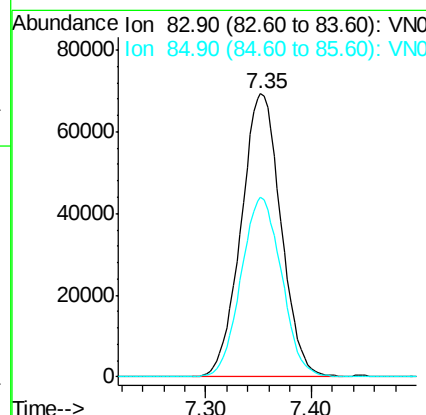
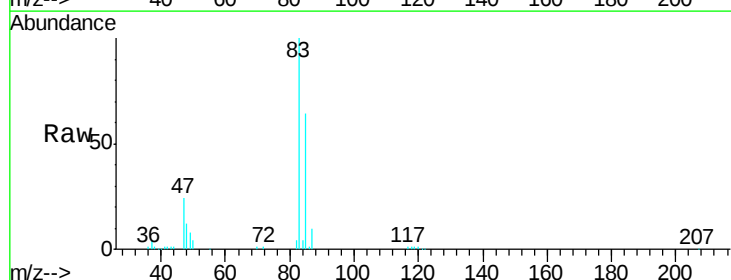
Manual Integrations  
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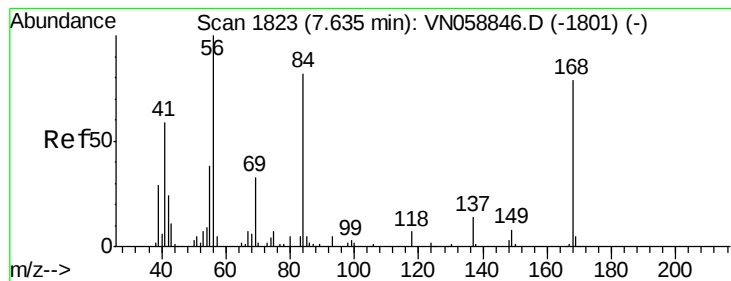
MMDadoda  
11/4/2019 7:04:10 AM



#30  
Chloroform  
Concen: 20.255 ug/l  
RT: 7.35 min Scan# 1735  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 63.5  | 51.9  | 77.9  |





#31

Cyclohexane

Concen: 19.207 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 56 Resp: 160496  
Ion Ratio Lower Upper

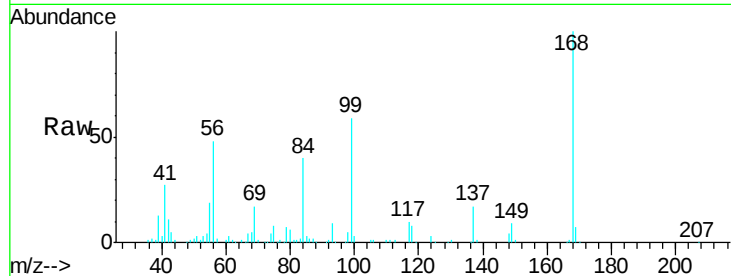
56 100

69 34.8 26.2 39.4

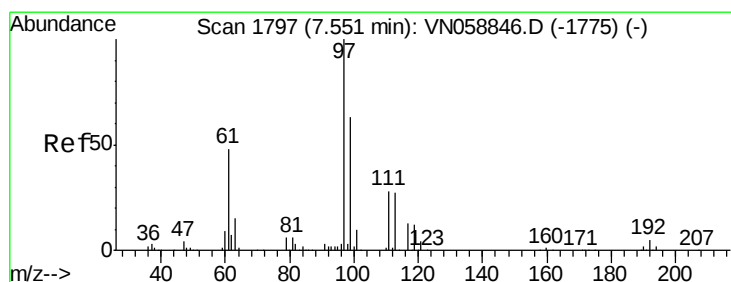
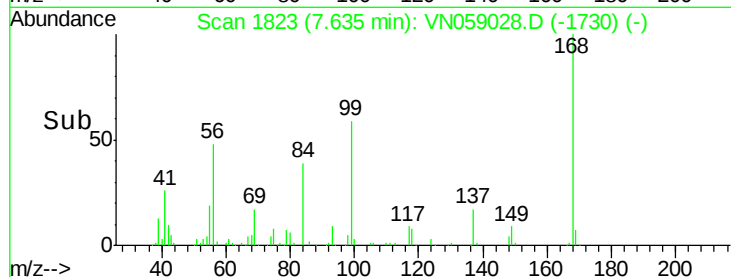
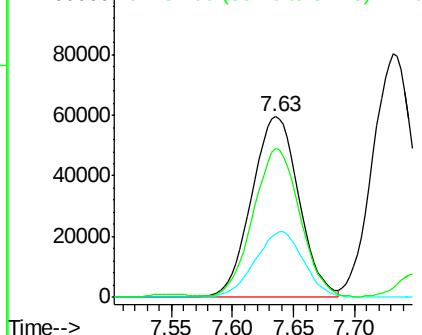
84 81.5 65.6 98.4

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Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 20.446 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN059028.D

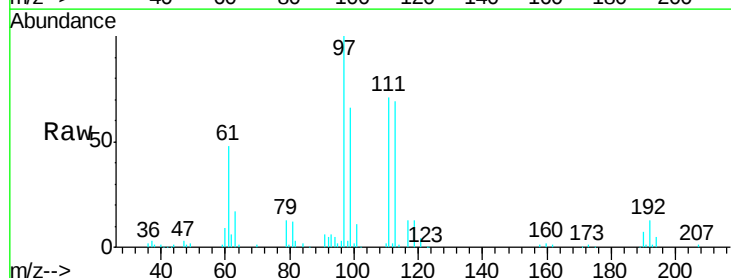
Acq: 31 Oct 2019 10:33

Tgt Ion: 97 Resp: 155054  
Ion Ratio Lower Upper

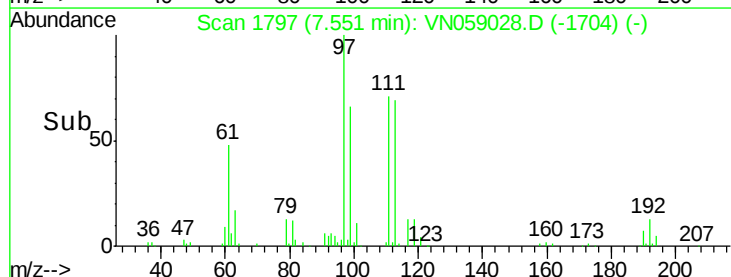
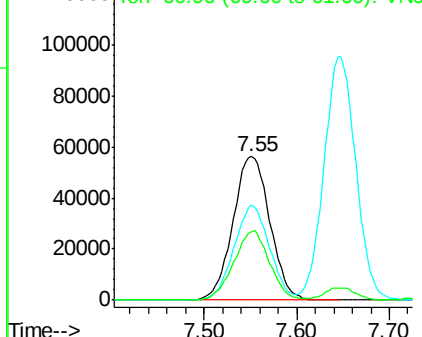
97 100

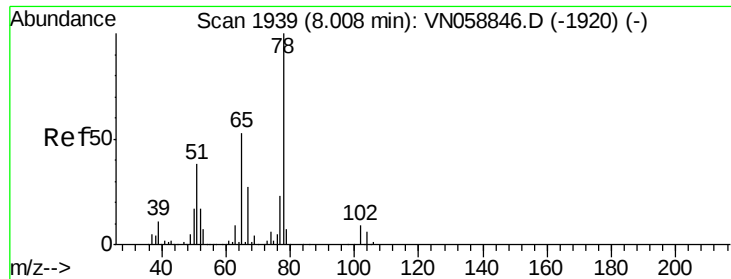
99 63.7 51.0 76.4

61 46.7 38.6 58.0



Abundance Ion 96.90 (96.60 to 97.60): VNC  
Ion 98.90 (98.60 to 99.60): VNC  
Ion 60.90 (60.60 to 61.60): VNC





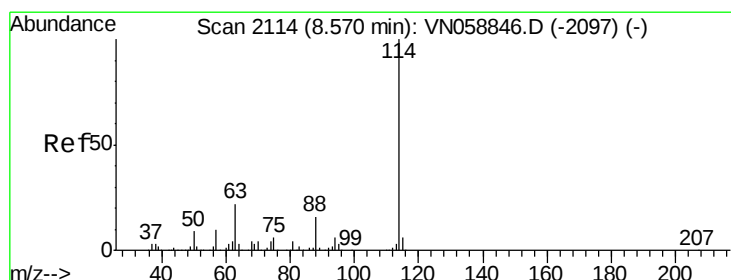
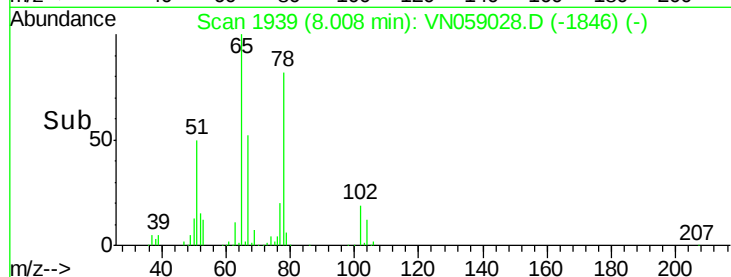
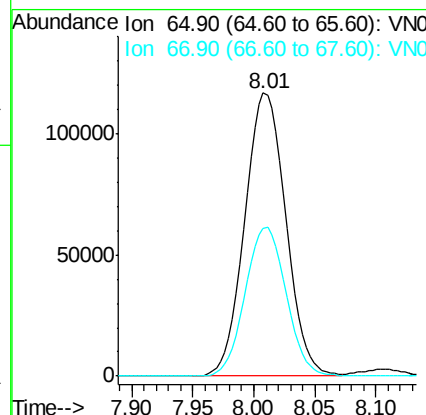
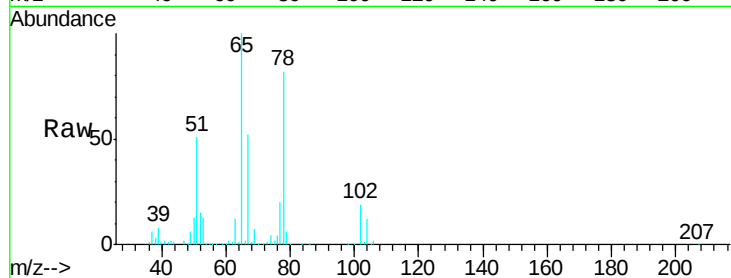
#33  
 1,2-Dichloroethane-d4  
 Concen: 46.884 ug/l  
 RT: 8.01 min Scan# 1939  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 272604 |       |       |
| 67      | 52.4  | 0.0    | 103.2 |       |

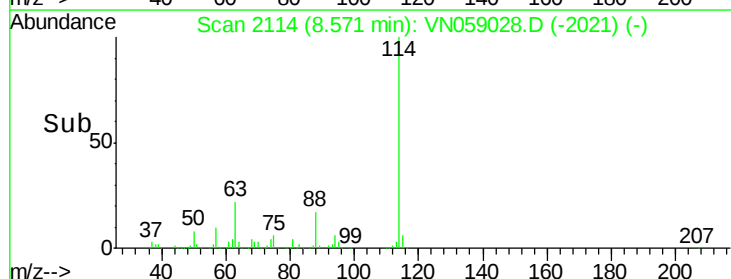
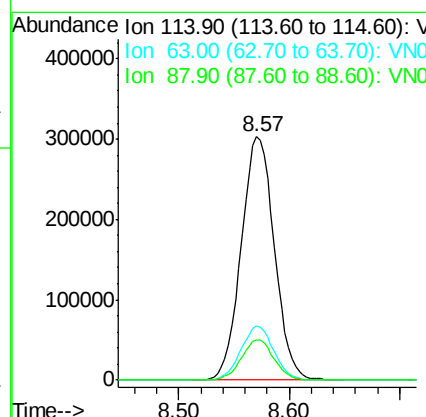
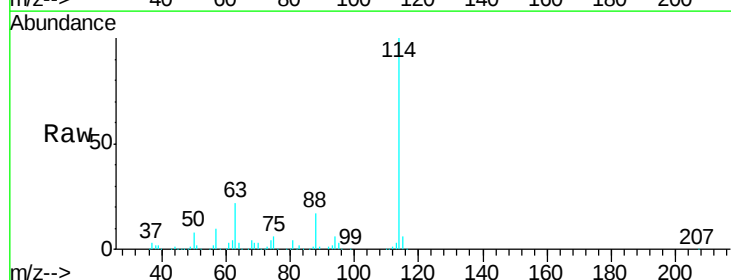
Manual Integrations  
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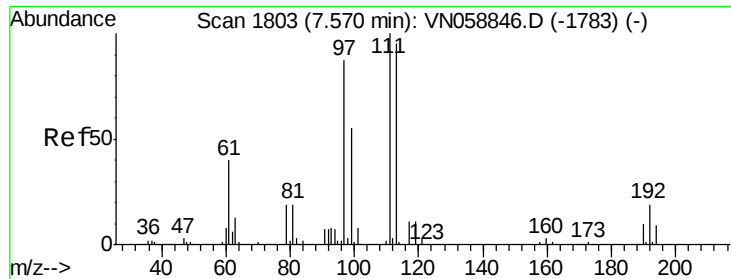
MMDadoda  
 11/4/2019 7:04:10 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 630477 |       |       |
| 63      | 22.1  | 0.0    | 44.4  |       |
| 88      | 16.7  | 0.0    | 31.4  |       |





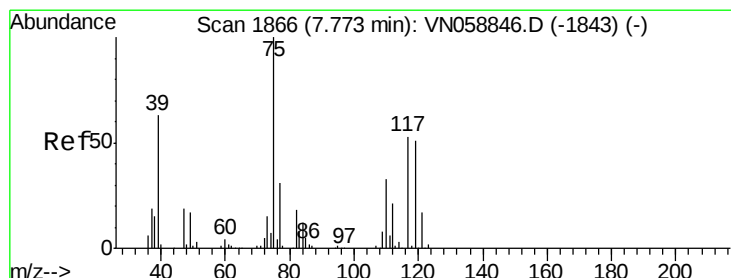
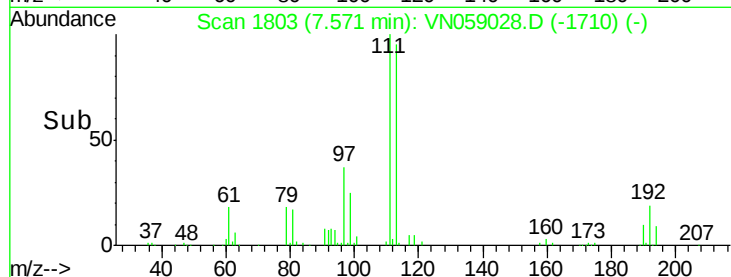
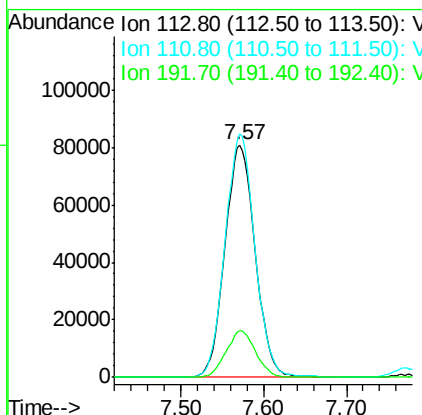
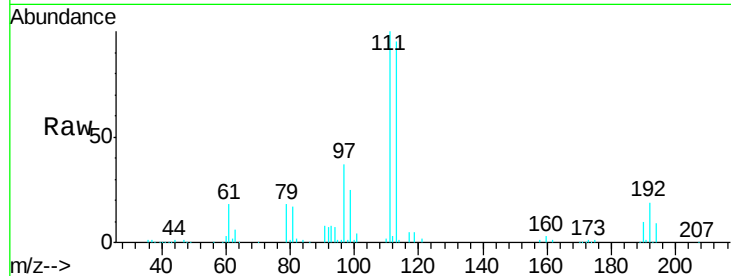
#35  
 Dibromofluoromethane  
 Concen: 49.541 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 205358 |       |       |
| 111     | 102.8 | 82.0   | 123.0 |       |
| 192     | 19.6  | 15.0   | 22.6  |       |

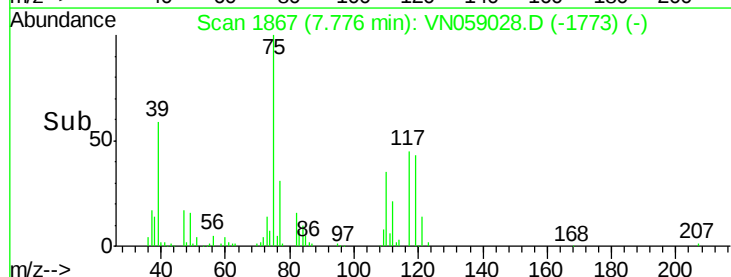
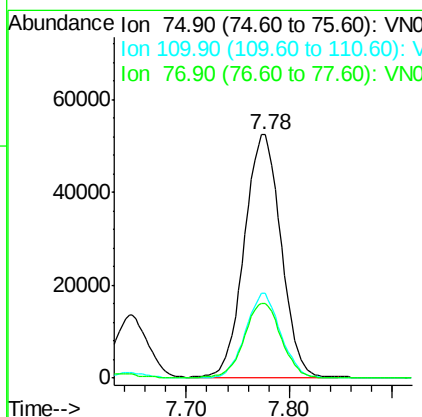
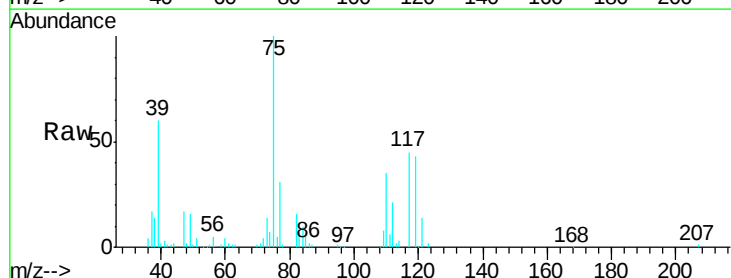
Manual Integrations  
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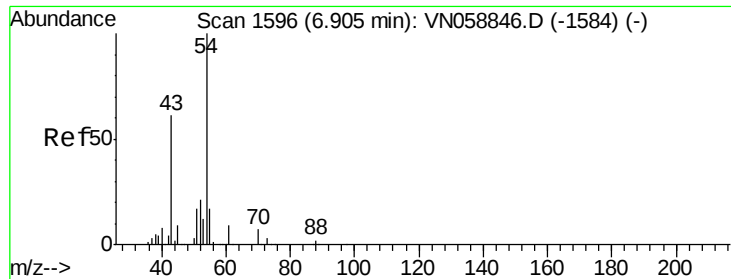
MMDadoda  
 11/4/2019 7:04:10 AM



#36  
 1,1-Dichloropropene  
 Concen: 19.966 ug/l  
 RT: 7.78 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 128874 |       |       |
| 110     | 33.6  | 16.3   | 48.9  |       |
| 77      | 31.2  | 24.6   | 36.8  |       |





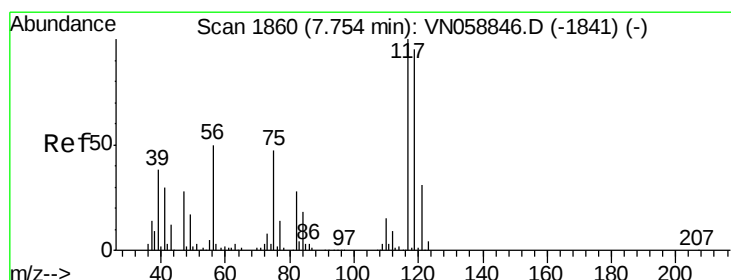
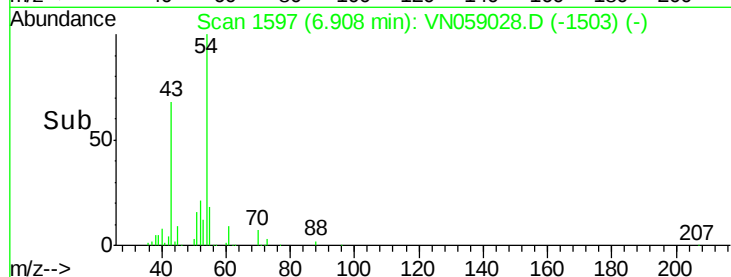
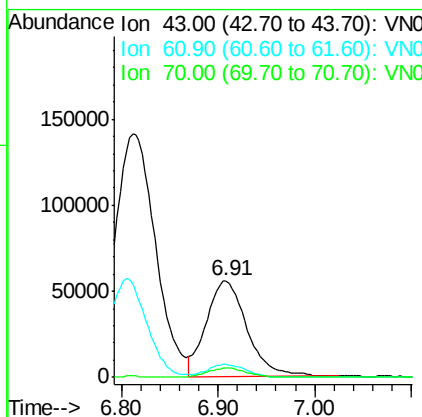
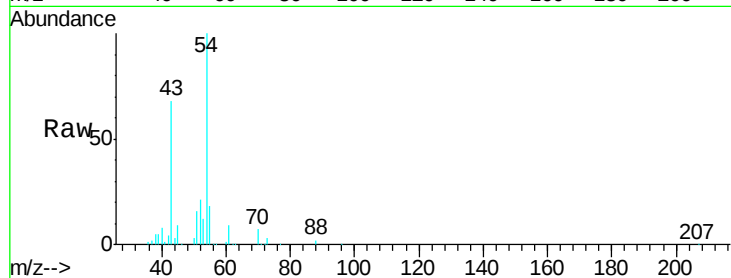
#37  
Ethyl Acetate  
Concen: 23.200 ug/l  
RT: 6.91 min Scan# 1597  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 12.7  | 10.5  | 15.7  |
| 70      | 9.5   | 7.6   | 11.4  |

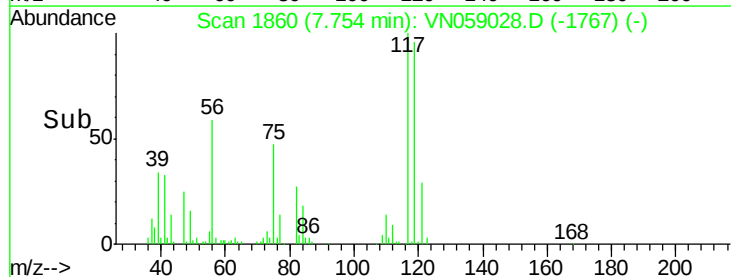
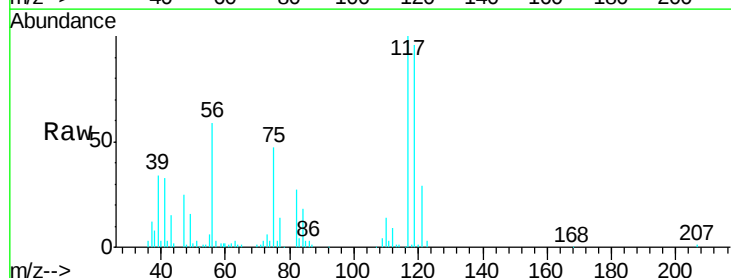
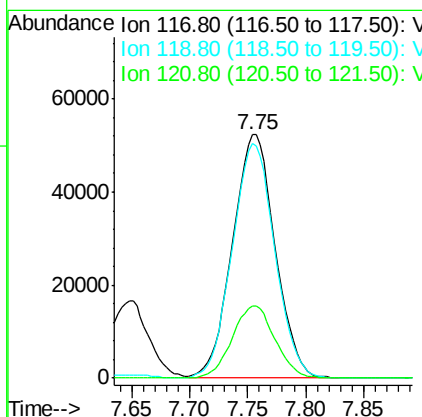
Manual Integrations  
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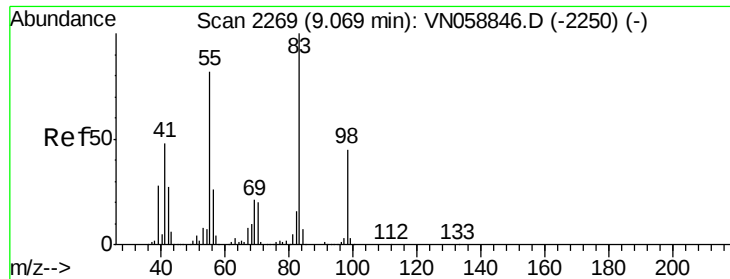
MMDadoda  
11/4/2019 7:04:10 AM



#38  
Carbon Tetrachloride  
Concen: 20.089 ug/l  
RT: 7.75 min Scan# 1860  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.2  | 75.7  | 113.5 |
| 121     | 29.4  | 25.0  | 37.6  |





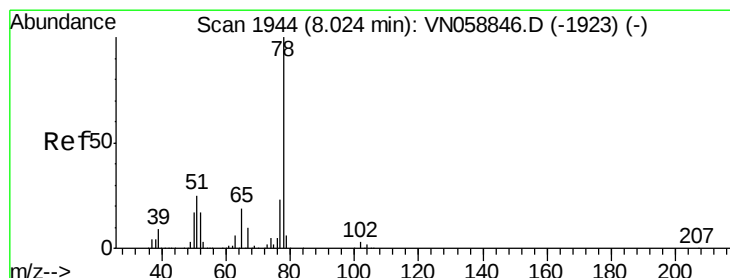
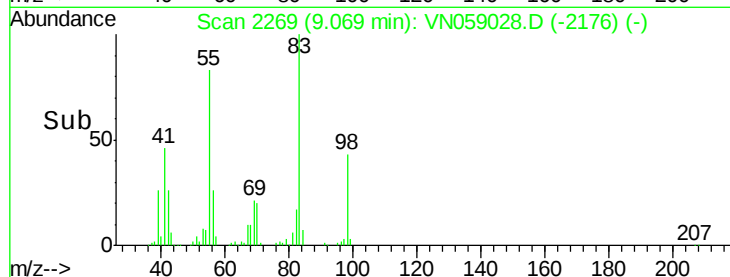
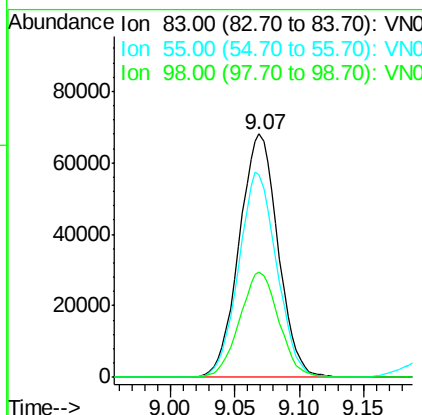
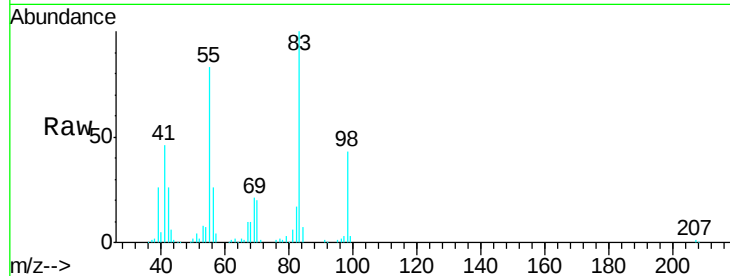
#39  
Methylcyclohexane  
Concen: 19.687 ug/l  
RT: 9.07 min Scan# 2269  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 142683 |       |       |
| 55      | 83.4  | 65.5   | 98.3  |       |
| 98      | 43.2  | 35.7   | 53.5  |       |

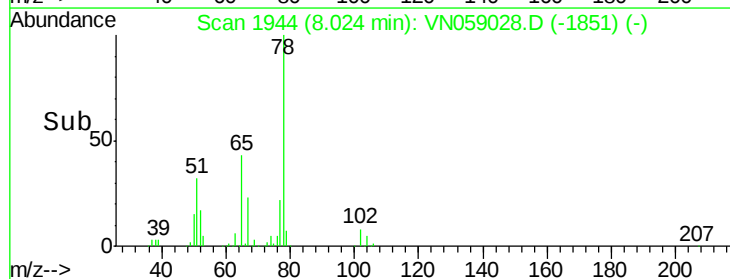
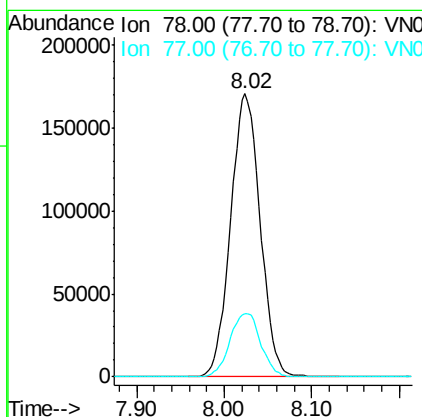
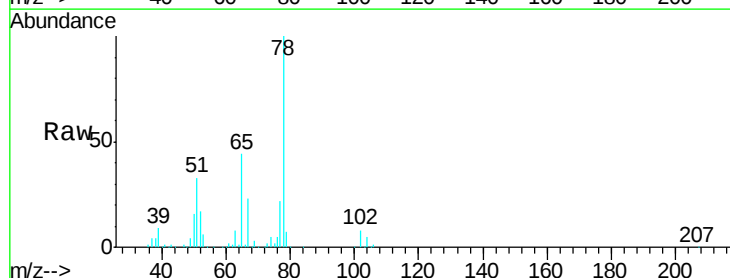
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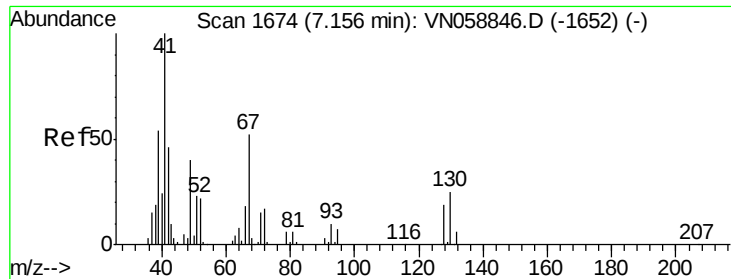
MMDadoda  
11/4/2019 7:04:10 AM



#40  
Benzene  
Concen: 21.103 ug/l  
RT: 8.02 min Scan# 1944  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 78      | 100   | 400000 |       |       |
| 77      | 22.3  | 18.2   | 27.2  |       |





#41

Methacrylonitrile

Concen: 22.059 ug/l m

RT: 7.16 min Scan# 1675

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 41 Resp: 69098

Ion Ratio Lower Upper

41 100

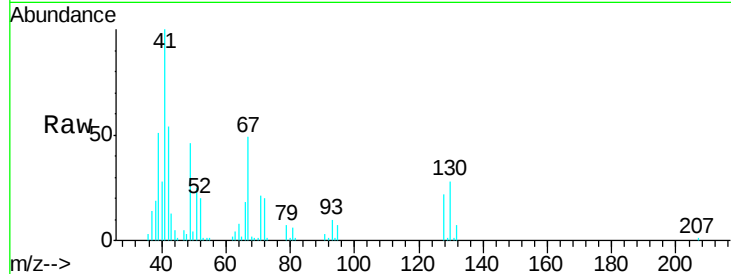
39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

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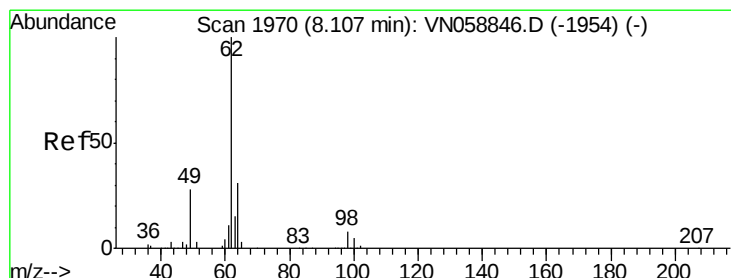
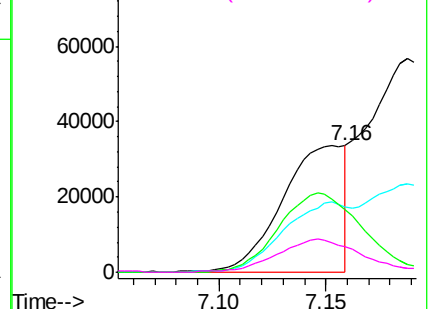
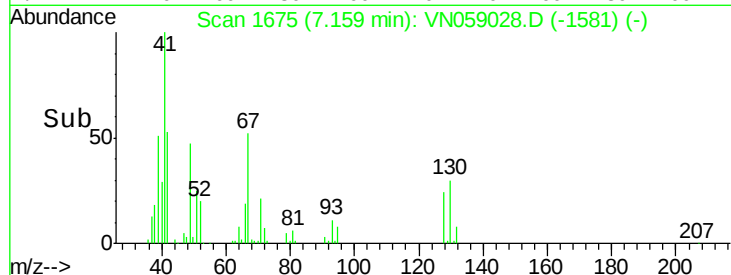


Abundance Ion 41.00 (40.70 to 41.70): VN058846.D (-1652) (-)

Ion 39.00 (38.70 to 39.70): VN058846.D (-1652) (-)

Ion 67.00 (66.70 to 67.70): VN058846.D (-1652) (-)

Ion 52.00 (51.70 to 52.70): VN058846.D (-1652) (-)



#42

1,2-Dichloroethane

Concen: 19.950 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VN059028.D

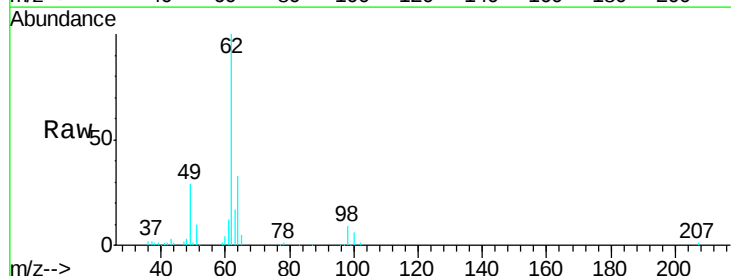
Acq: 31 Oct 2019 10:33

Tgt Ion: 62 Resp: 145667

Ion Ratio Lower Upper

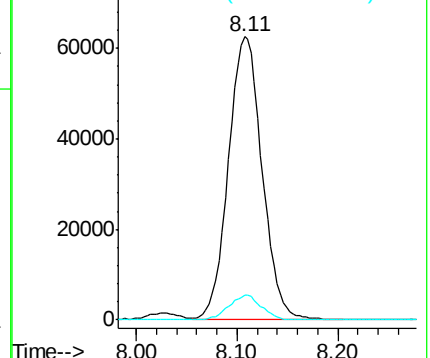
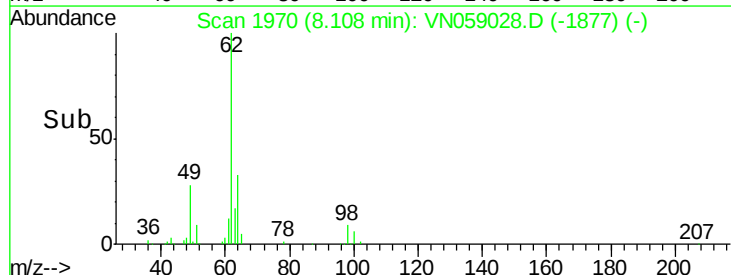
62 100

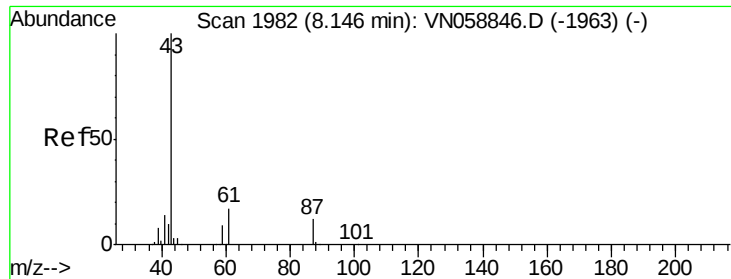
98 8.4 0.0 16.2



Abundance Ion 61.90 (61.60 to 62.60): VN058846.D (-1954) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1954) (-)





#43

Isopropyl Acetate

Concen: 22.115 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

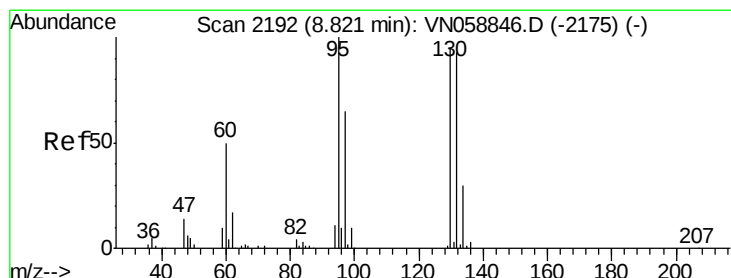
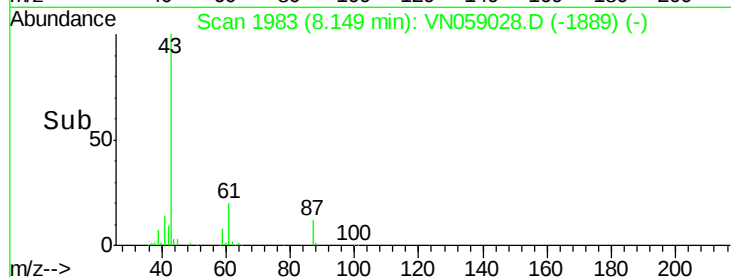
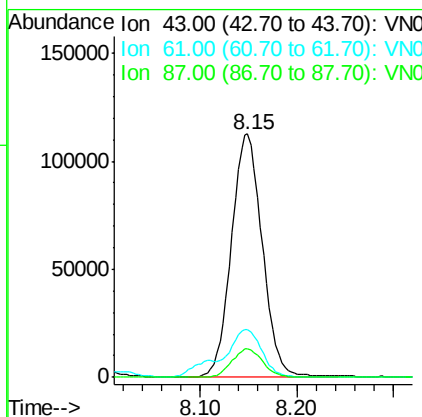
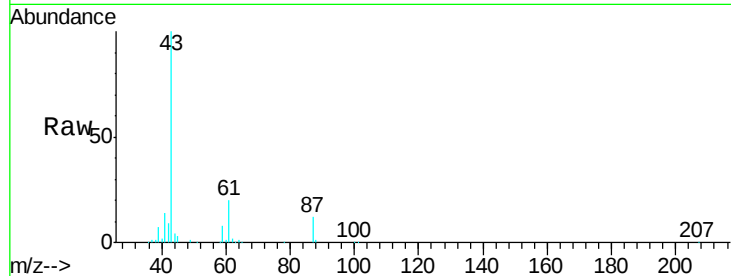
ClientSampleId :

VN1031WBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 249448 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 19.8  | 20.2  | 30.2#  |
| 87        | 11.7  | 9.5   | 14.3   |

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#44

Trichloroethene

Concen: 20.850 ug/l

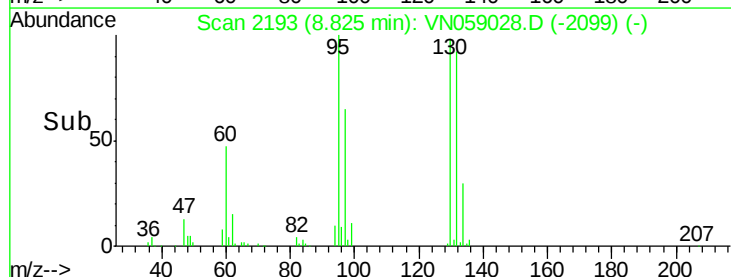
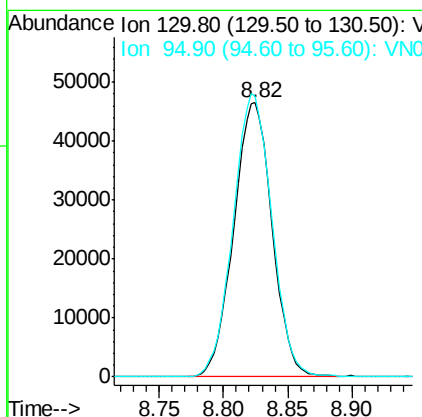
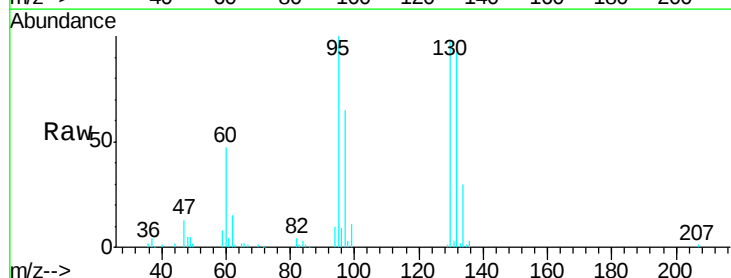
RT: 8.82 min Scan# 2193

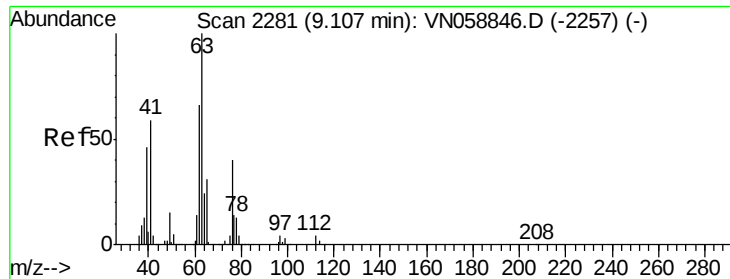
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 96268 |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 102.4 | 0.0   | 209.6 |





#45

1,2-Dichloropropane

Concen: 21.200 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 63 Resp: 110189

Ion Ratio Lower Upper

63 100

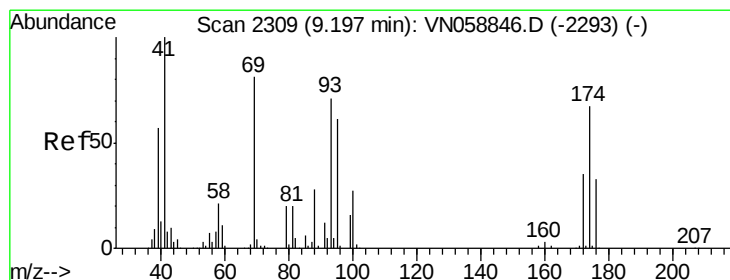
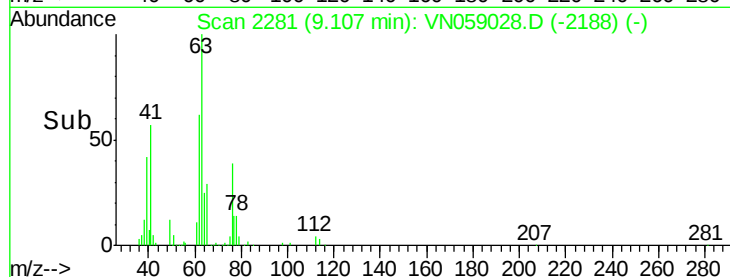
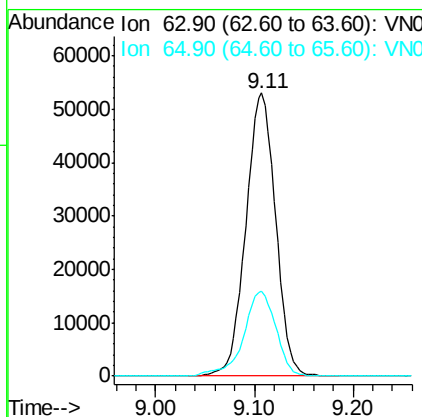
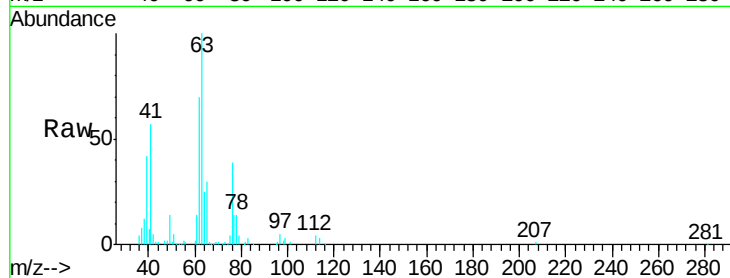
65 29.9 24.5 36.7

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#46

Dibromomethane

Concen: 21.225 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

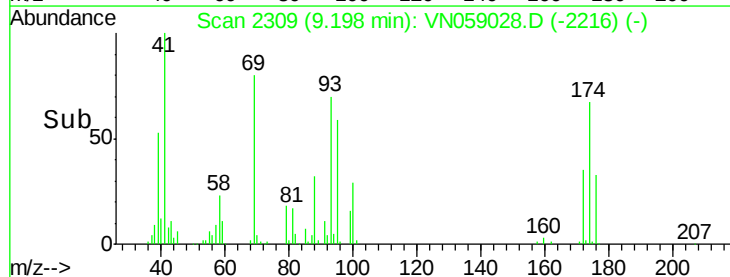
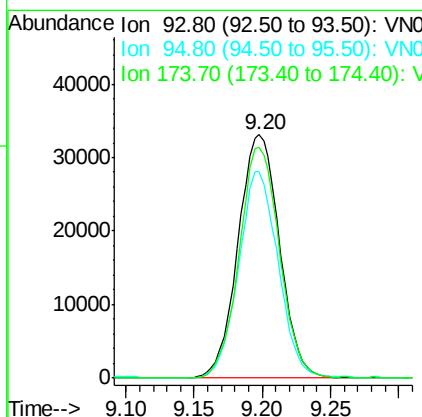
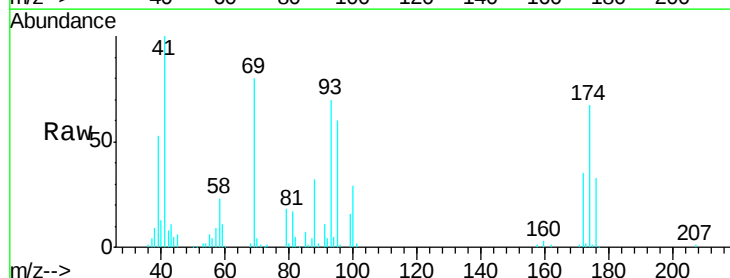
Tgt Ion: 93 Resp: 69741

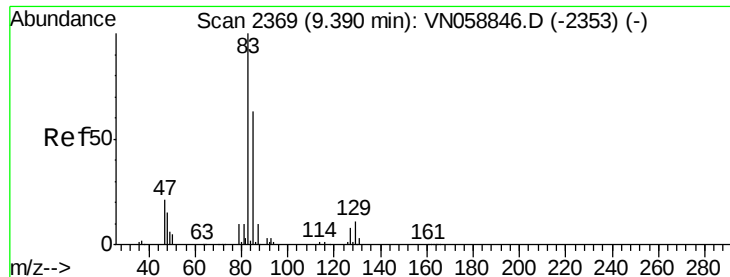
Ion Ratio Lower Upper

93 100

95 81.3 67.6 101.4

174 92.5 74.1 111.1





#47

Bromodichloromethane

Concen: 20.828 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

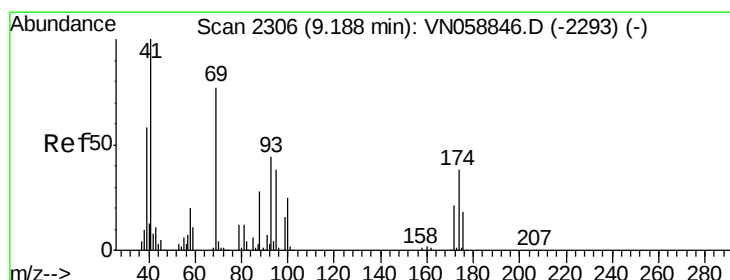
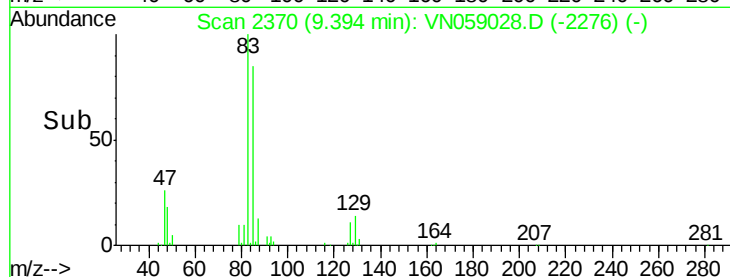
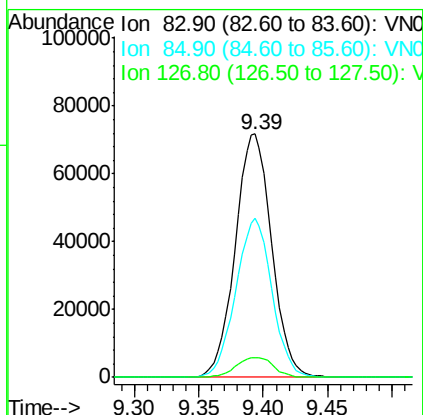
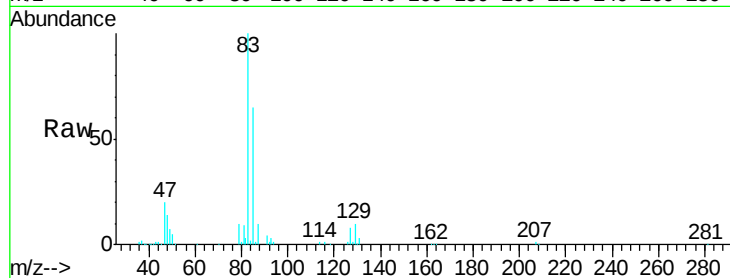
ClientSampleId :

VN1031WBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 141049 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 65.2  | 50.6  | 75.8   |
| 127       | 8.2   | 6.5   | 9.7    |

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#48

Methyl methacrylate

Concen: 22.000 ug/l

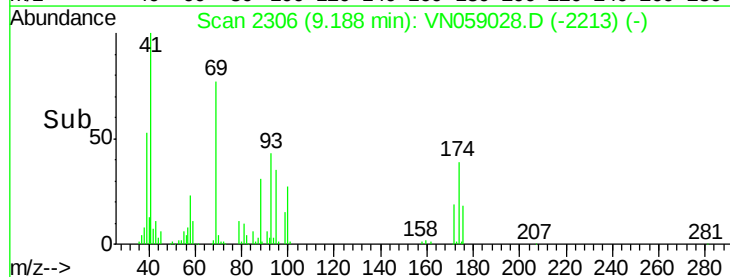
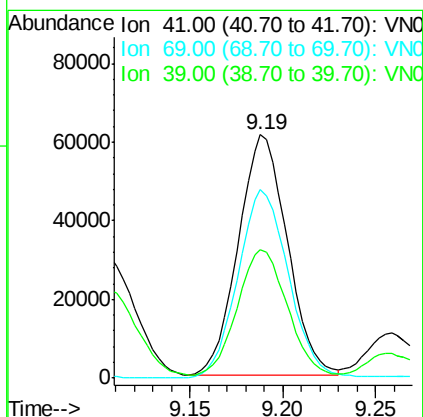
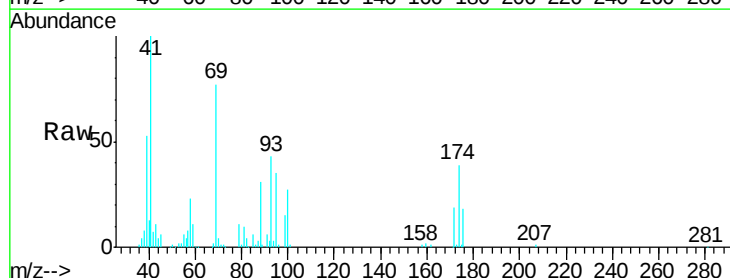
RT: 9.19 min Scan# 2306

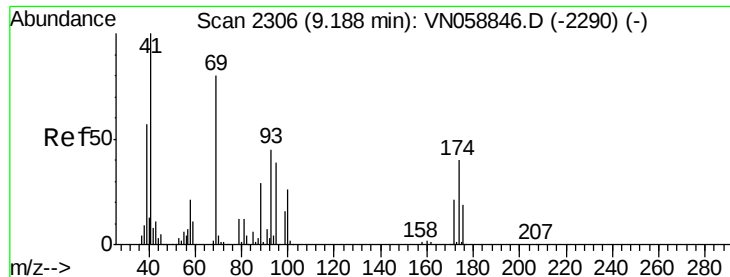
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 112587 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 69        | 81.1  | 63.8  | 95.6   |
| 39        | 55.1  | 47.8  | 71.8   |





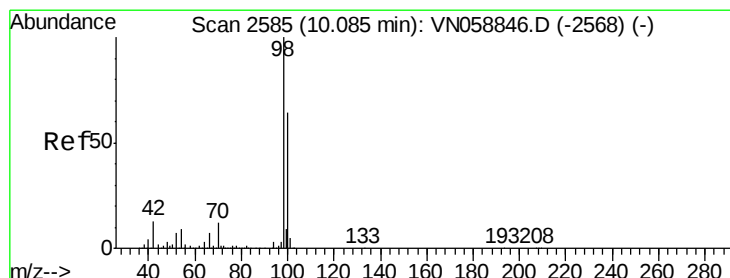
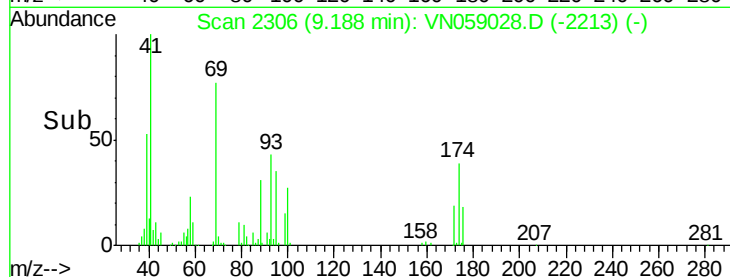
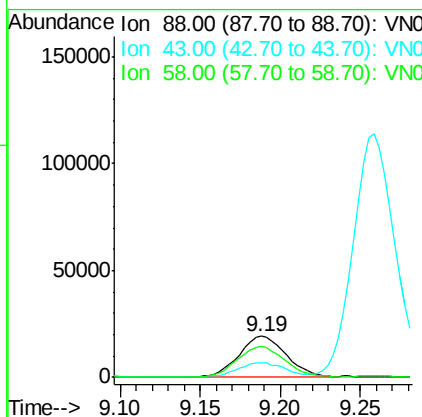
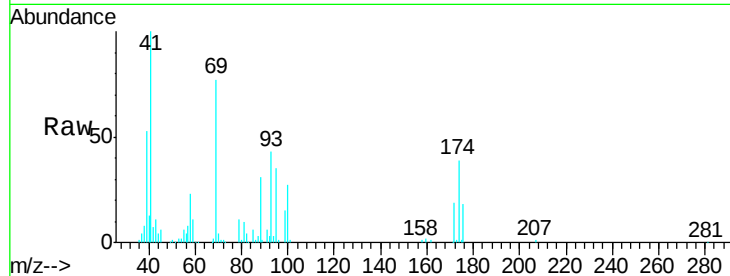
#49  
1,4-Dioxane  
Concen: 467.051 ug/l  
RT: 9.19 min Scan# 2306  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 36.0  | 29.1  | 43.7  |
| 58      | 75.4  | 59.4  | 89.0  |

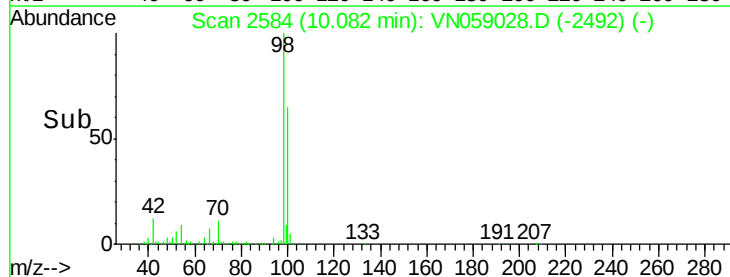
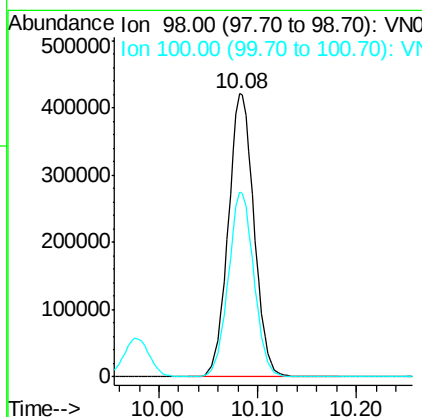
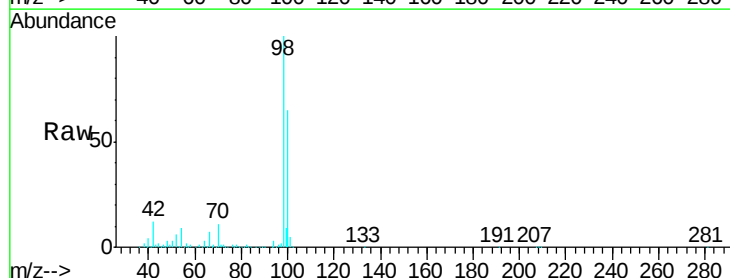
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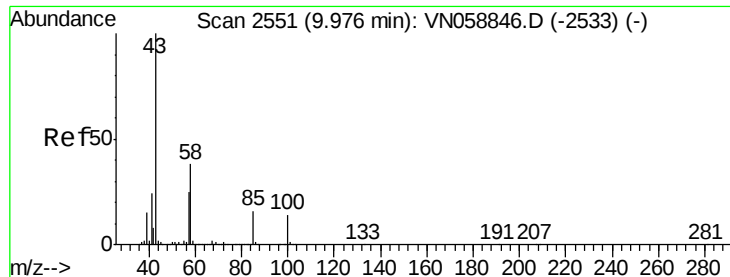
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#50  
Toluene-d8  
Concen: 47.708 ug/l  
RT: 10.08 min Scan# 2584  
Delta R.T. -0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.6  | 51.4  | 77.2  |





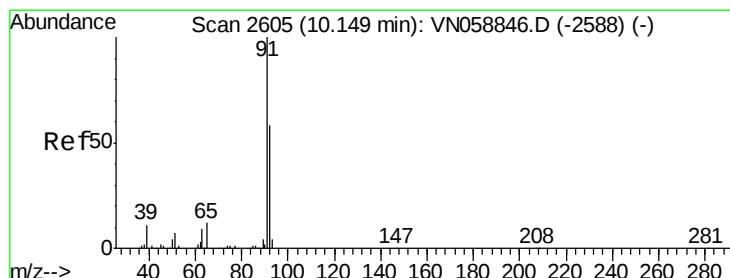
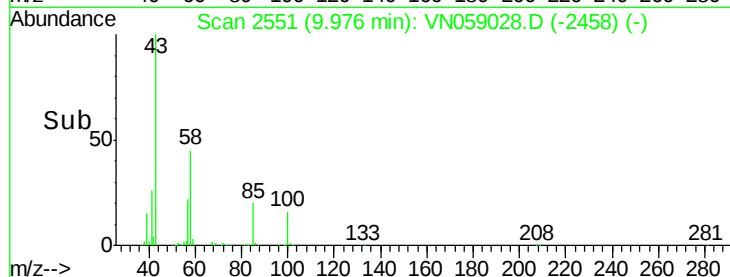
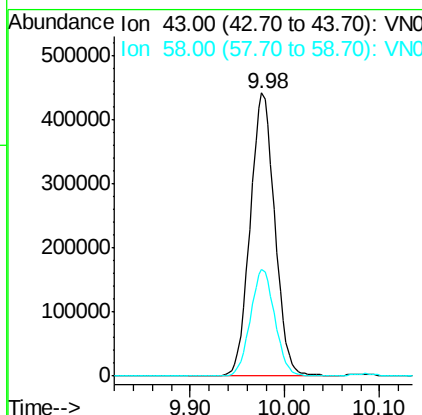
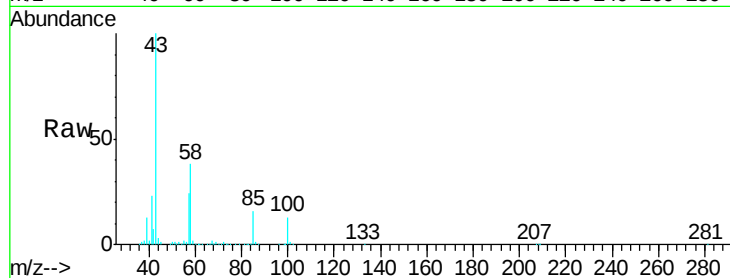
#51  
4-Methyl-2-Pentanone  
Concen: 121.033 ug/l  
RT: 9.98 min Scan# 2551  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 43 Resp: 797419  
Ion Ratio Lower Upper  
43 100  
58 37.6 29.9 44.9

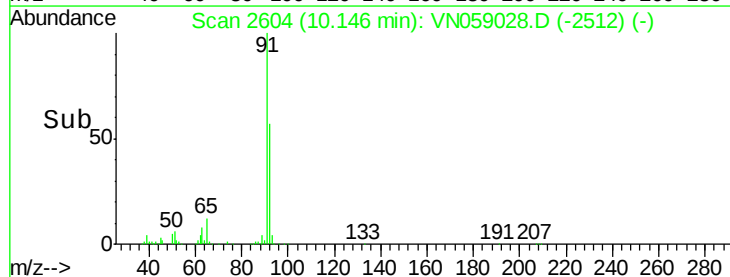
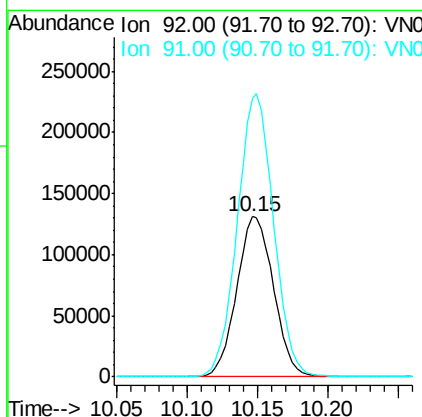
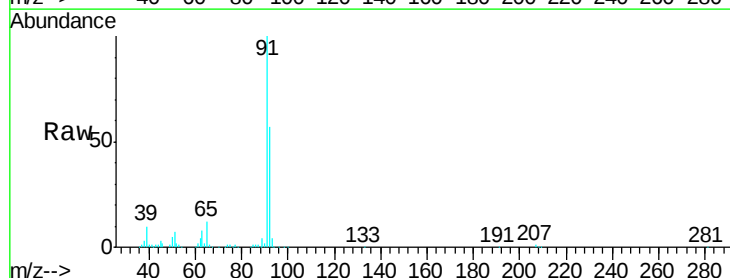
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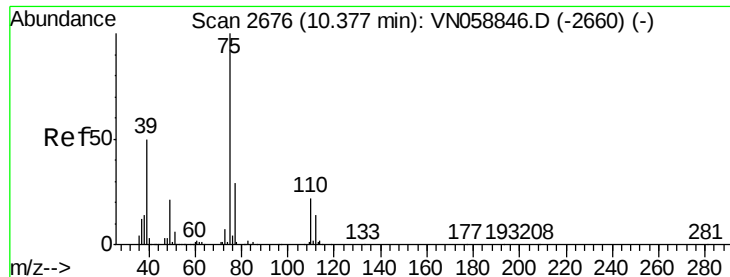
MMDadoda  
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#52  
Toluene  
Concen: 21.335 ug/l  
RT: 10.15 min Scan# 2604  
Delta R.T. -0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 92 Resp: 239807  
Ion Ratio Lower Upper  
92 100  
91 174.7 138.9 208.3





#53

t-1,3-Dichloropropene

Concen: 21.058 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 75 Resp: 157874

Ion Ratio Lower Upper

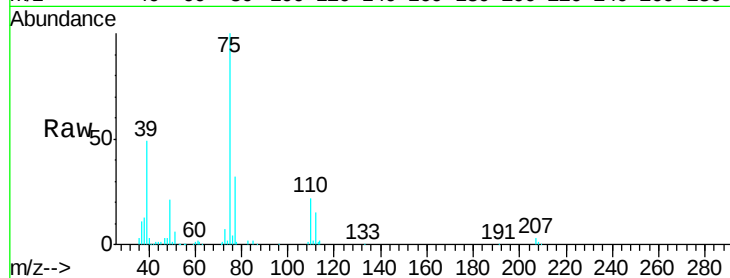
75 100

77 31.3 25.7 38.5

Manual Integrations  
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11/4/2019 7:04:10 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.38

80000

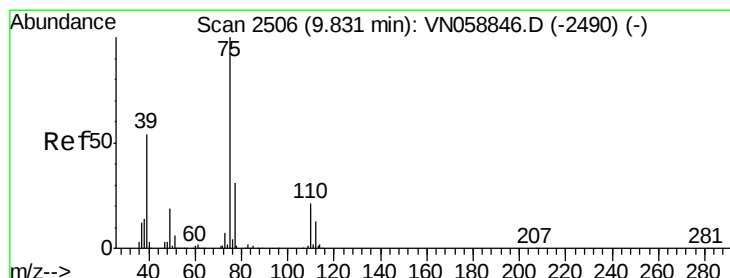
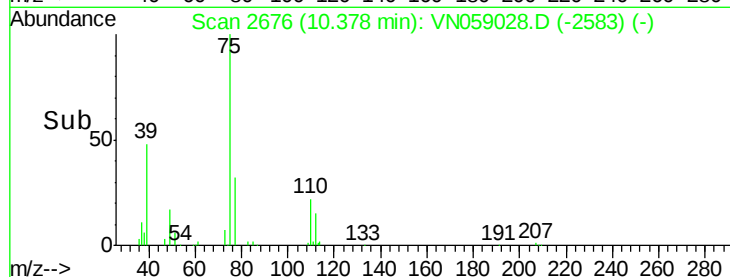
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 21.318 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

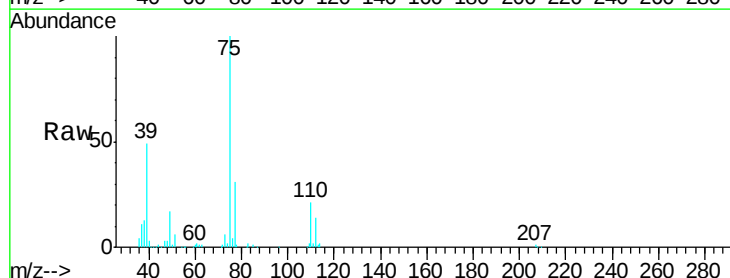
Tgt Ion: 75 Resp: 170751

Ion Ratio Lower Upper

75 100

77 31.2 24.7 37.1

39 49.0 43.5 65.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

120000

100000

80000

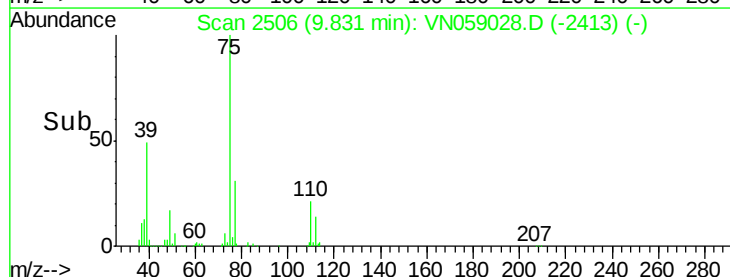
60000

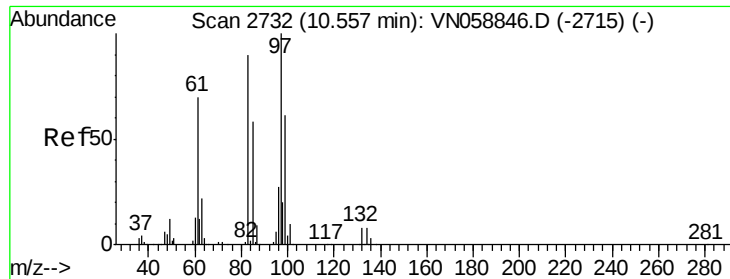
40000

20000

0

Time-->





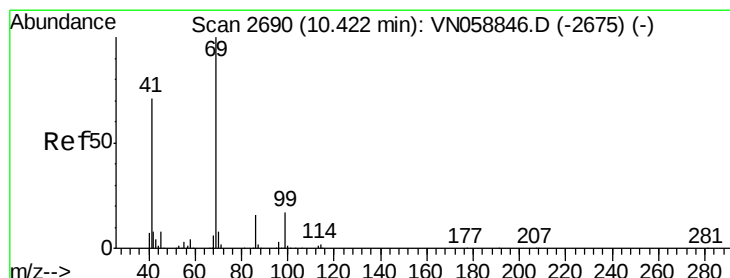
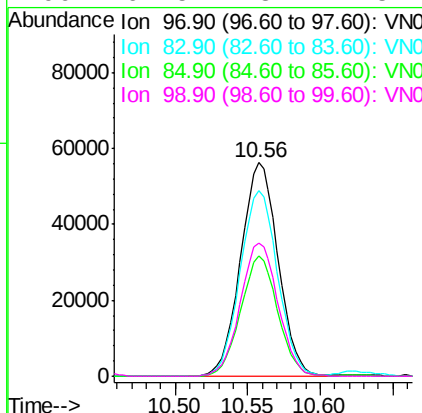
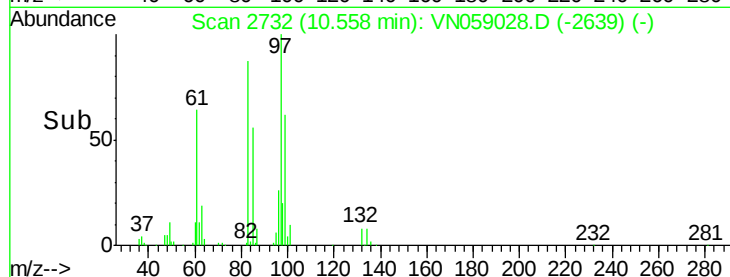
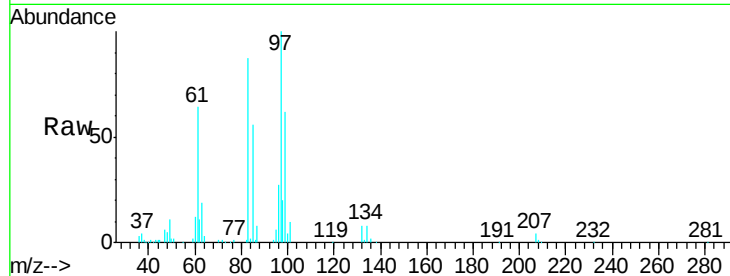
#55  
 1,1,2-Trichloroethane  
 Concen: 21.874 ug/l  
 RT: 10.56 min Scan# 2732  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.9  | 72.2  | 108.4 |
| 85      | 56.2  | 46.2  | 69.2  |
| 99      | 62.5  | 48.7  | 73.1  |

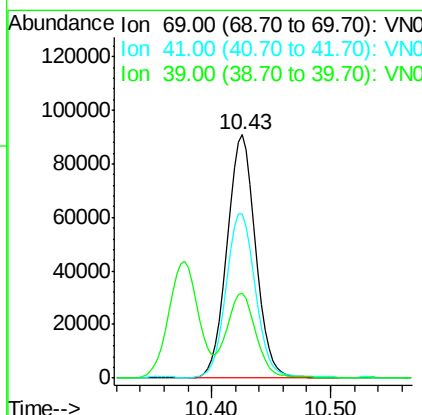
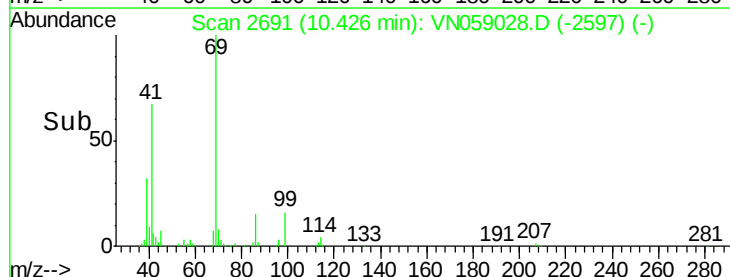
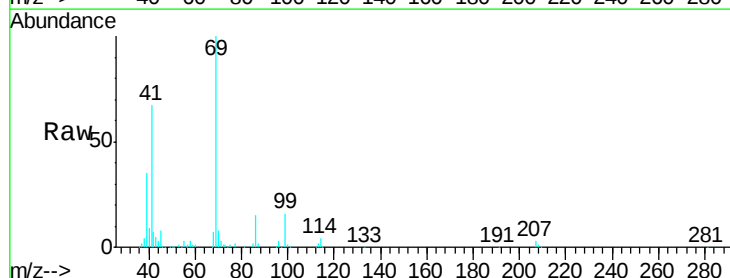
Manual Integrations  
 APPROVED

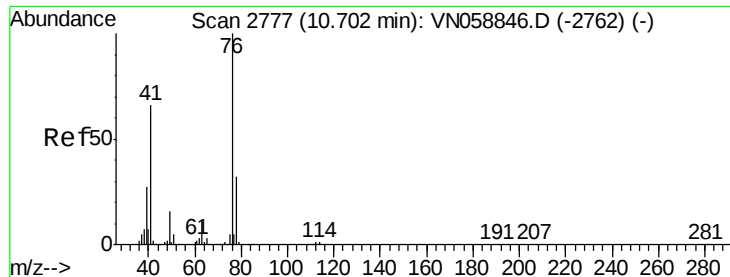
MMDadoda  
 11/4/2019 7:04:10 AM



#56  
 Ethyl methacrylate  
 Concen: 20.714 ug/l  
 RT: 10.43 min Scan# 2691  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 68.7  | 57.2  | 85.8  |
| 39      | 35.1  | 31.0  | 46.4  |





#57

1,3-Dichloropropane

Concen: 21.199 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 76 Resp: 172287

Ion Ratio Lower Upper

76 100

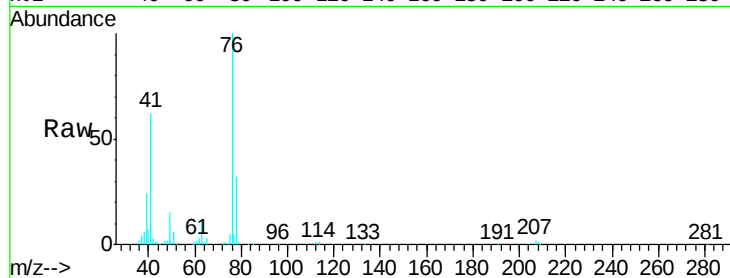
78 32.0 25.4 38.0

Manual Integrations

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11/4/2019 7:04:10 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

80000

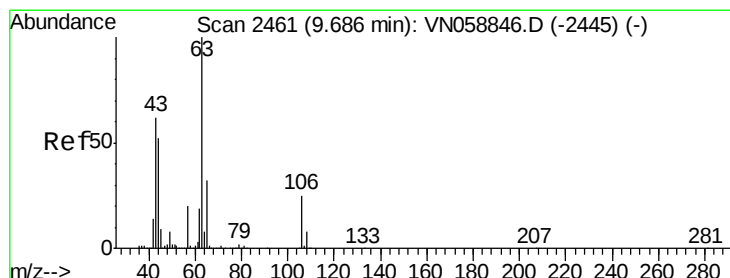
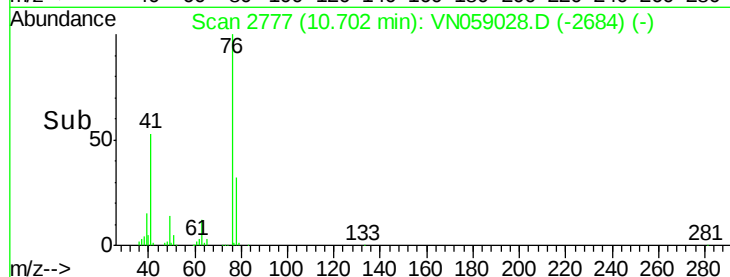
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 97.930 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059028.D

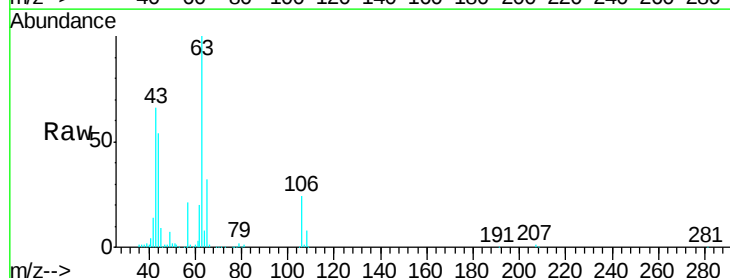
Acq: 31 Oct 2019 10:33

Tgt Ion: 63 Resp: 310072

Ion Ratio Lower Upper

63 100

106 24.9 19.8 29.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

200000

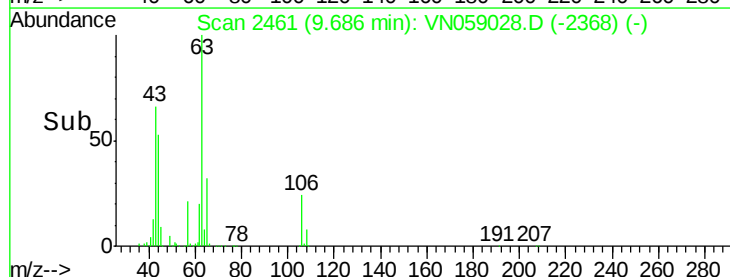
150000

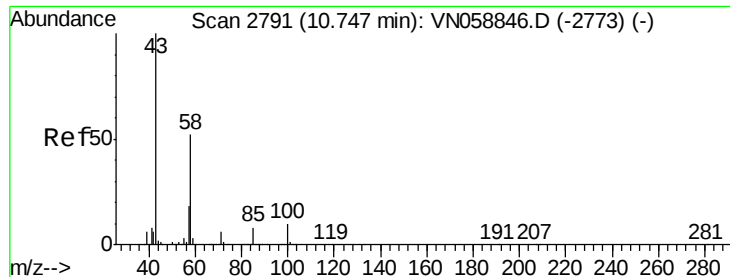
100000

50000

0

Time-->





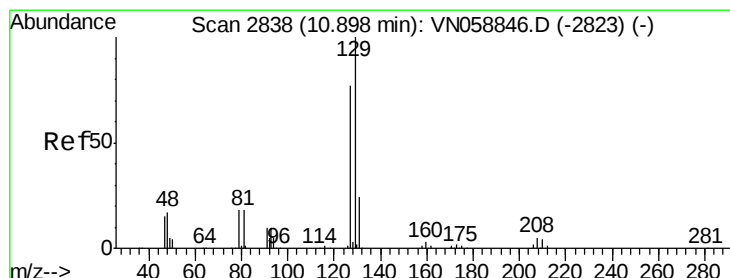
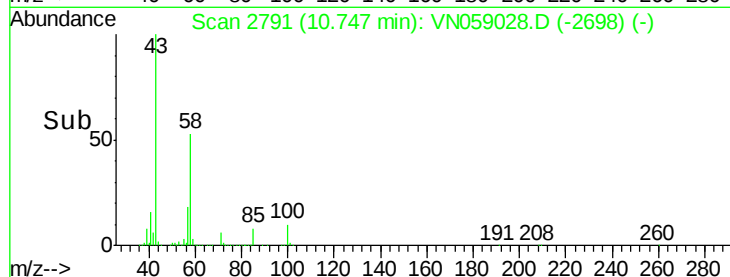
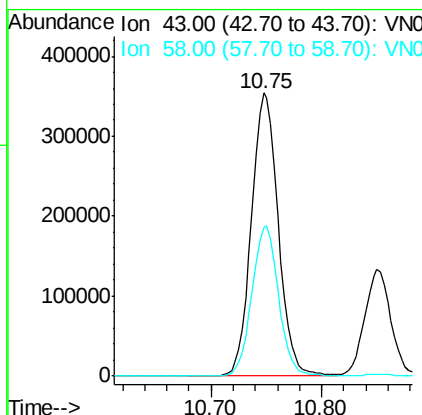
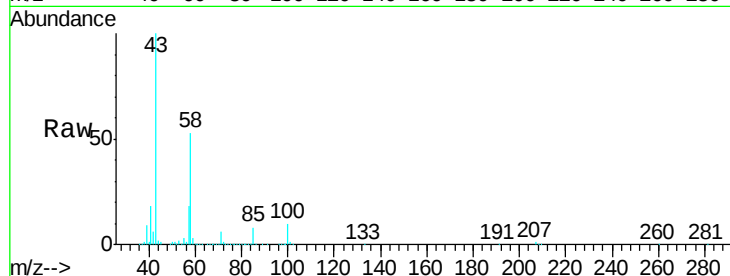
#59  
2-Hexanone  
Concen: 116.880 ug/l  
RT: 10.75 min Scan# 2791  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion: 43 Resp: 595047  
Ion Ratio Lower Upper  
43 100  
58 53.0 25.9 77.7

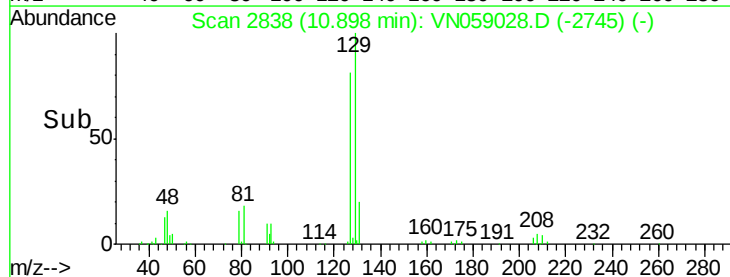
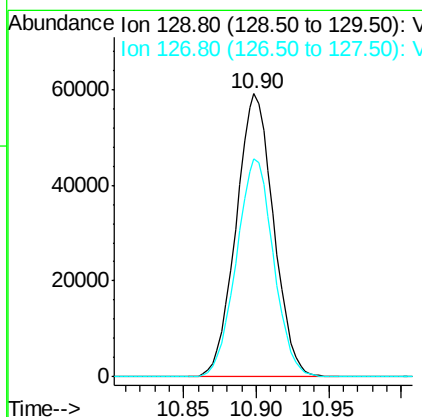
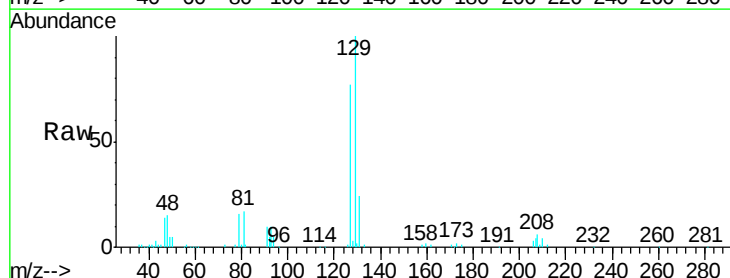
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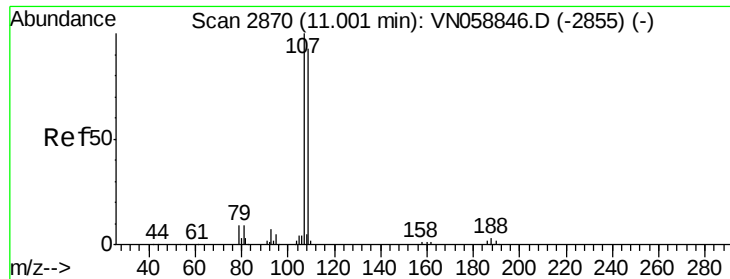
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#60  
Dibromochloromethane  
Concen: 21.278 ug/l  
RT: 10.90 min Scan# 2838  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion: 129 Resp: 106049  
Ion Ratio Lower Upper  
129 100  
127 76.5 39.1 117.3





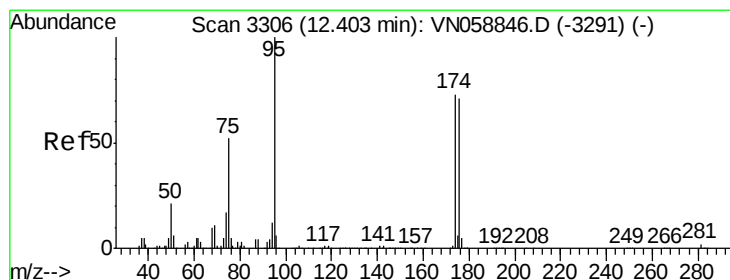
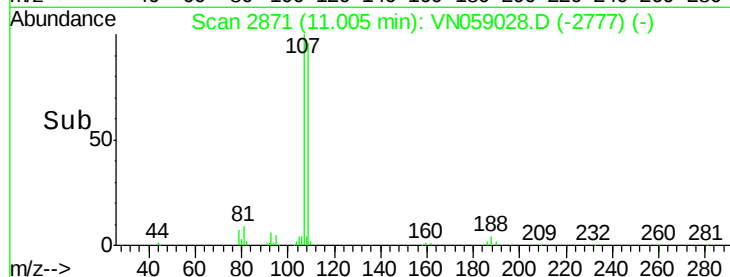
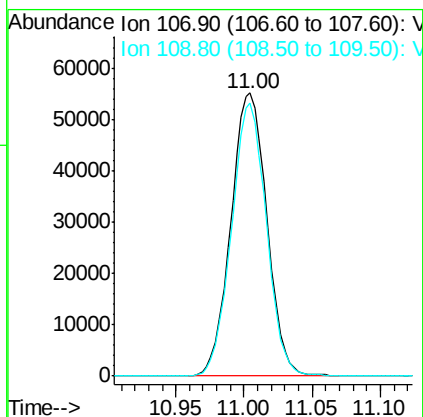
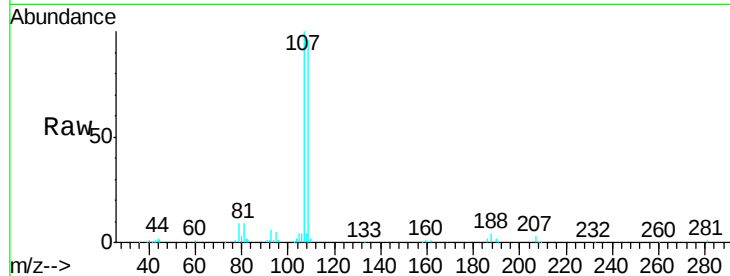
#61  
 1,2-Dibromoethane  
 Concen: 21.370 ug/l  
 RT: 11.00 min Scan# 2871  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

Tgt Ion: 107 Resp: 101266  
 Ion Ratio Lower Upper  
 107 100  
 109 93.6 75.2 112.8

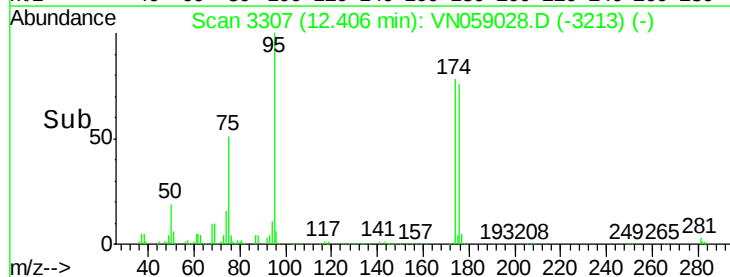
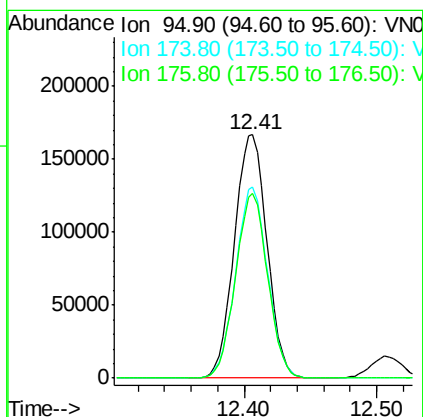
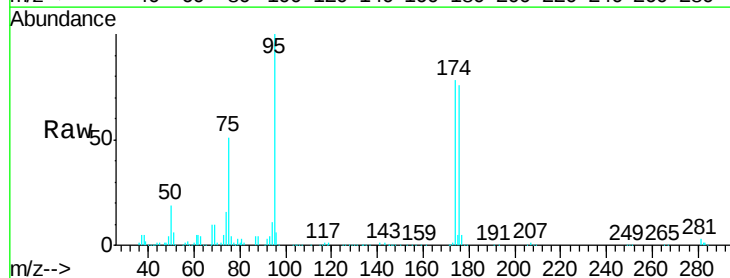
Manual Integrations  
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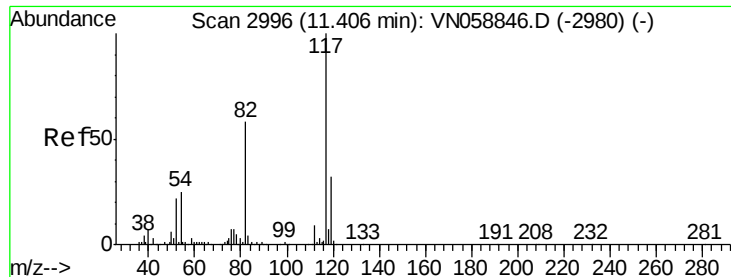
MMDadoda  
 11/4/2019 7:04:10 AM



#62  
 4-Bromofluorobenzene  
 Concen: 48.212 ug/l  
 RT: 12.41 min Scan# 3307  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Tgt Ion: 95 Resp: 284887  
 Ion Ratio Lower Upper  
 95 100  
 174 76.8 0.0 147.6  
 176 74.7 0.0 143.2





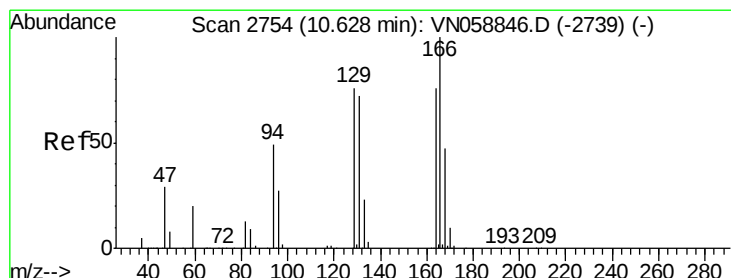
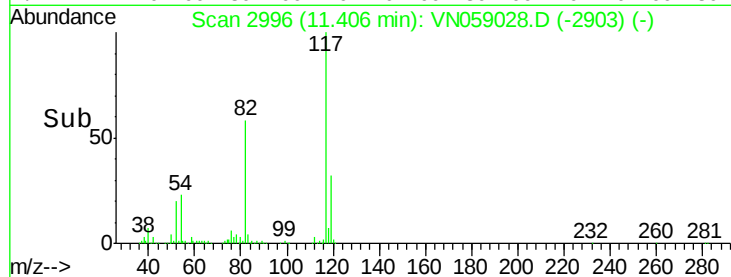
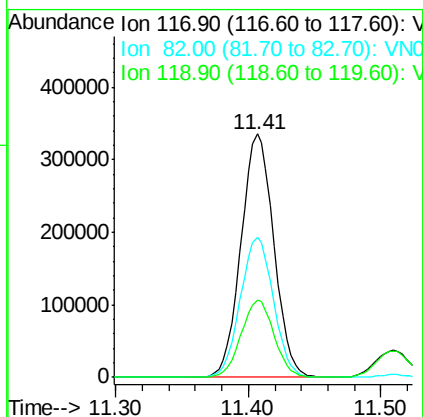
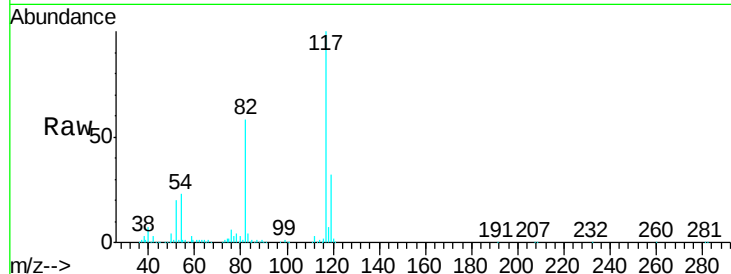
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 576557 |       |       |
| 82      | 57.6  | 46.6   | 69.8  |       |
| 119     | 31.6  | 25.6   | 38.4  |       |

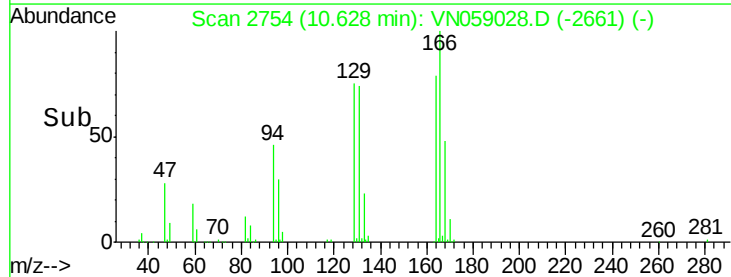
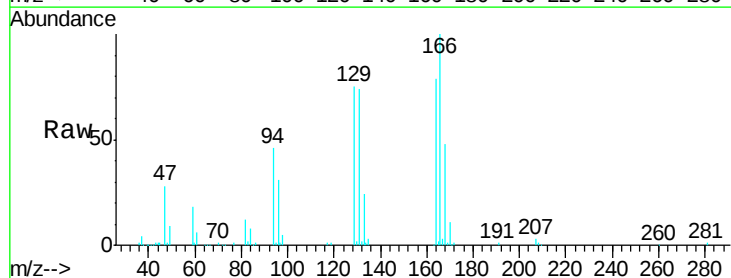
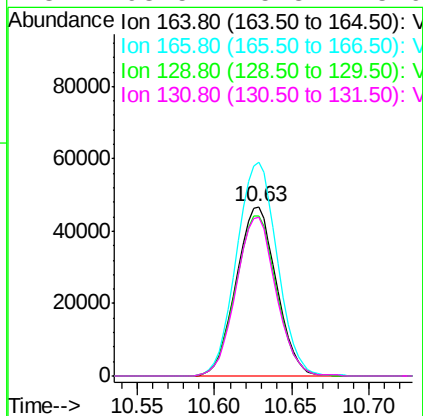
Manual Integrations  
APPROVED

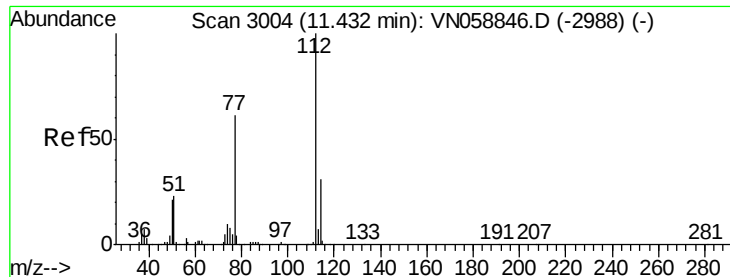
MMDadoda  
11/4/2019 7:04:10 AM



#64  
Tetrachloroethene  
Concen: 20.884 ug/l  
RT: 10.63 min Scan# 2754  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 84324 |       |       |
| 166     | 126.1 | 104.8 | 157.2 |       |
| 129     | 94.8  | 79.3  | 118.9 |       |
| 131     | 93.5  | 75.8  | 113.6 |       |





#65

Chlorobenzene

Concen: 21.776 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion:112 Resp: 255603

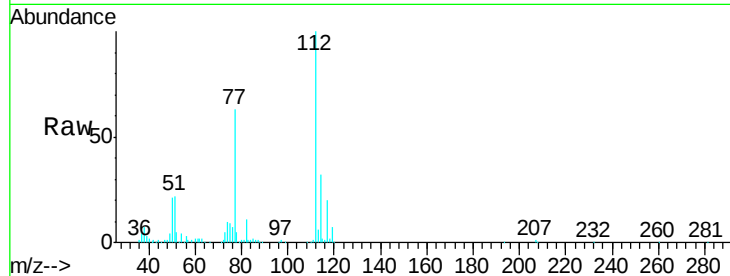
Ion Ratio Lower Upper

112 100

114 31.8 25.1 37.7

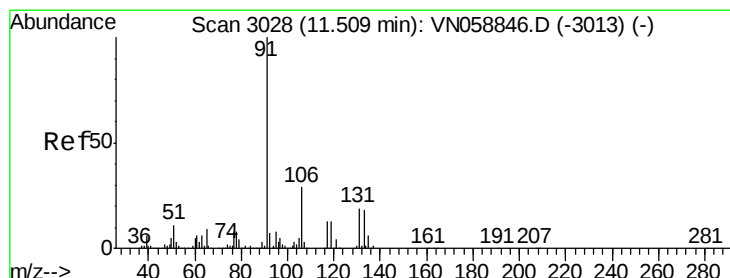
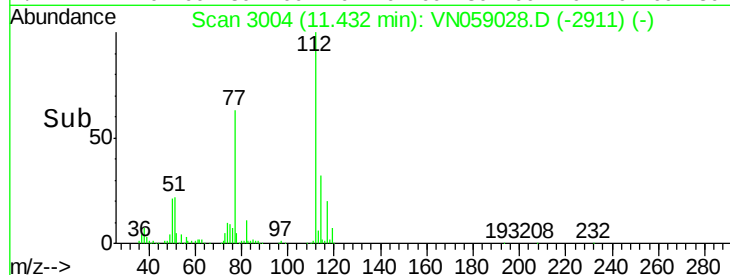
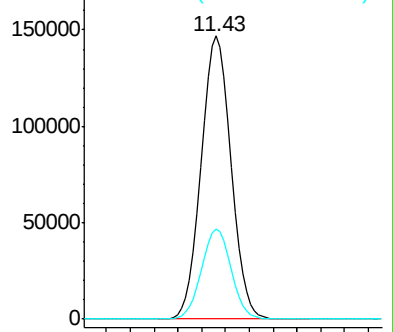
Manual Integrations  
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.400 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

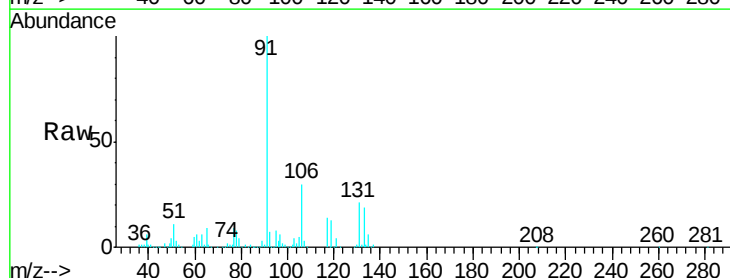
Tgt Ion:131 Resp: 99218

Ion Ratio Lower Upper

131 100

133 95.8 48.4 145.2

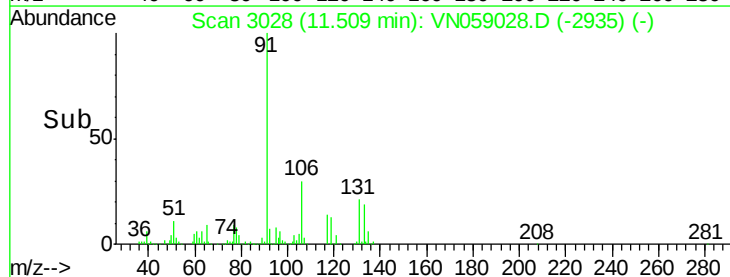
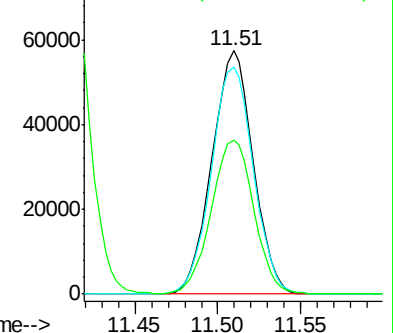
119 65.4 33.6 100.8

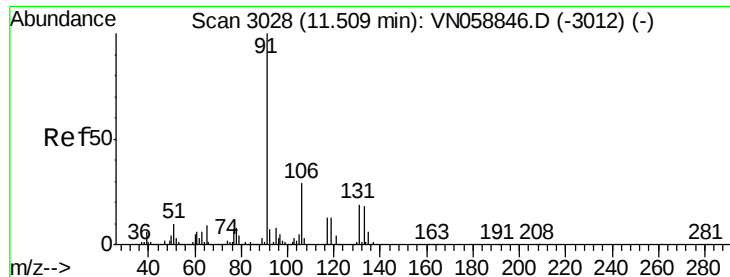


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 22.372 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 91 Resp: 460653

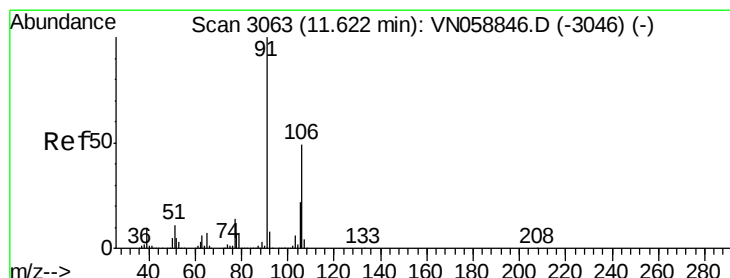
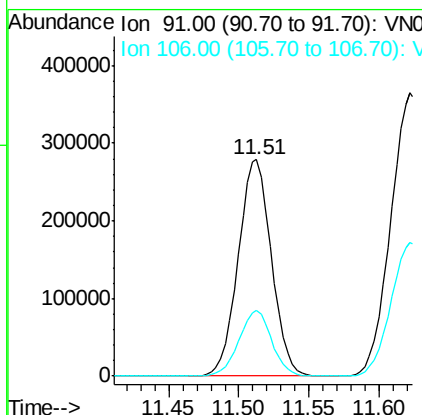
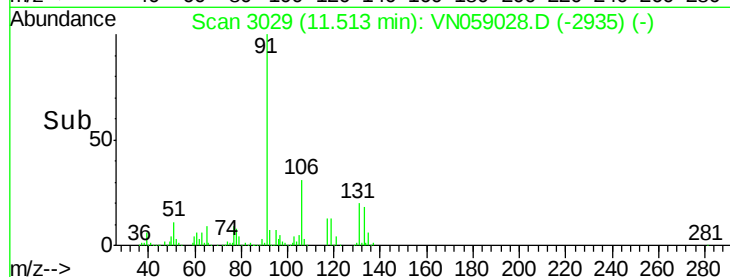
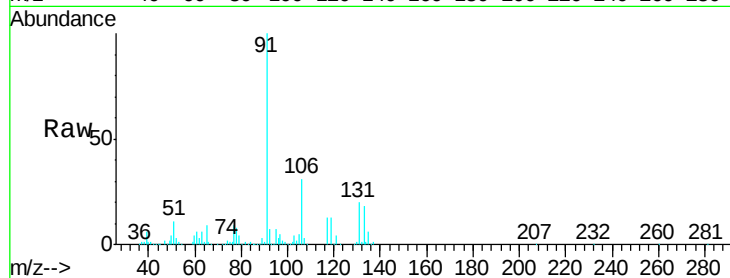
Ion Ratio Lower Upper

91 100

106 30.6 23.4 35.0

Manual Integrations  
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#68

m/p-Xylenes

Concen: 43.504 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059028.D

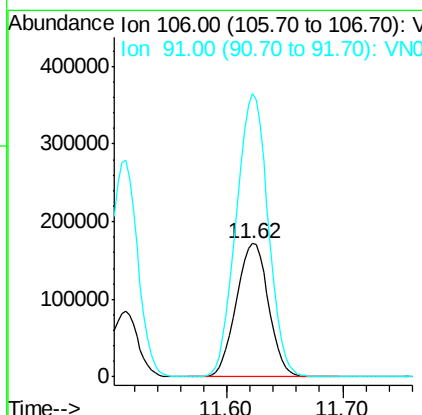
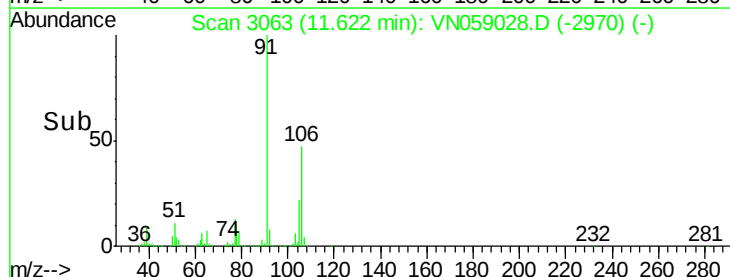
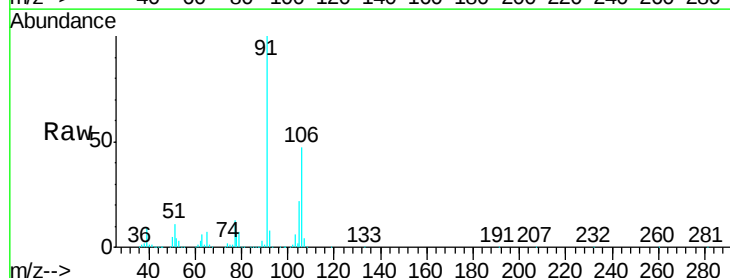
Acq: 31 Oct 2019 10:33

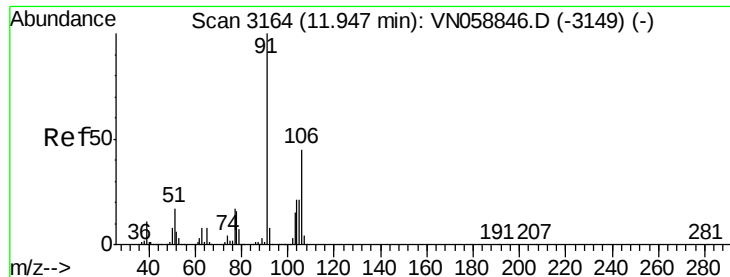
Tgt Ion: 106 Resp: 332200

Ion Ratio Lower Upper

106 100

91 210.4 166.6 249.8





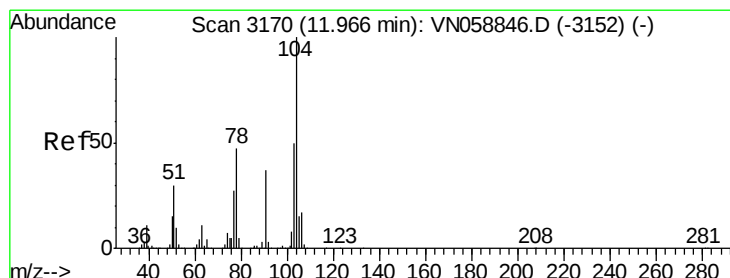
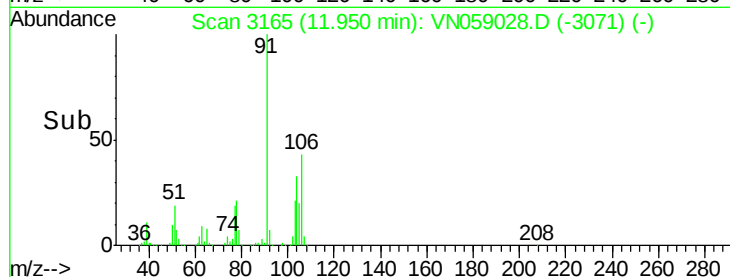
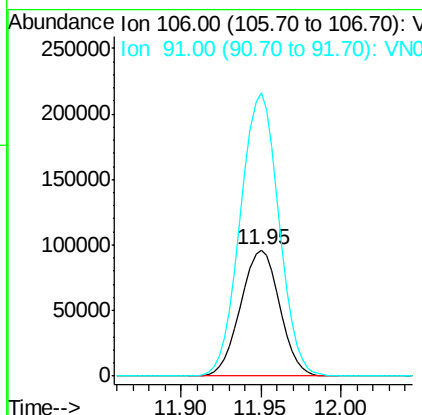
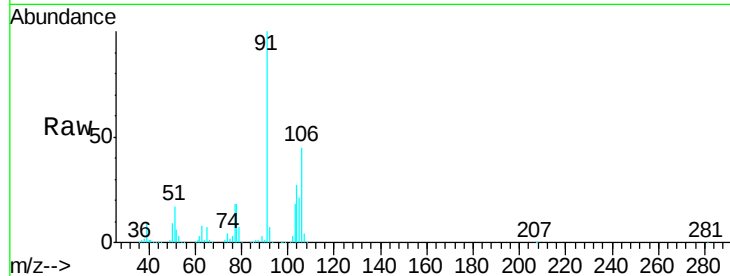
#69  
o-Xylene  
Concen: 22.087 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

Tgt Ion:106 Resp: 160852  
Ion Ratio Lower Upper  
106 100  
91 221.6 111.5 334.4

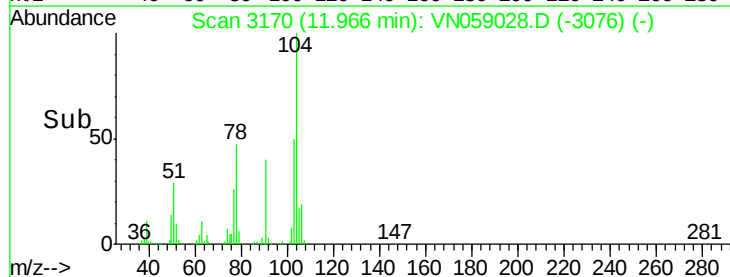
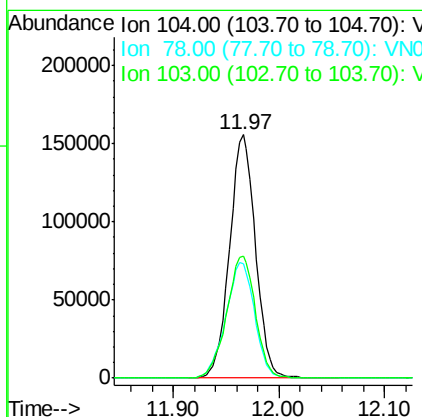
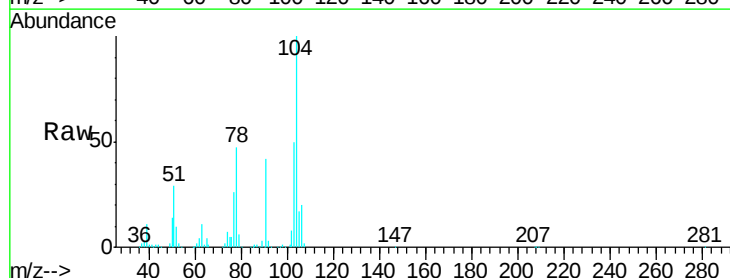
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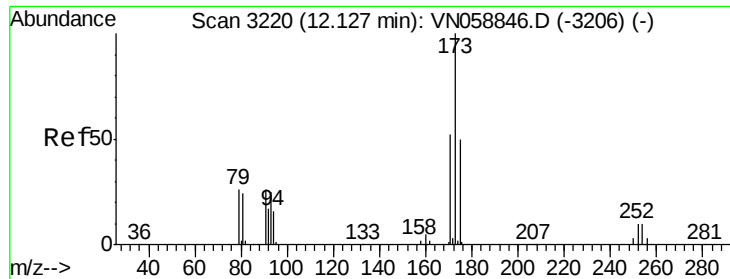
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#70  
Styrene  
Concen: 20.698 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Tgt Ion:104 Resp: 264271  
Ion Ratio Lower Upper  
104 100  
78 52.9 42.8 64.2  
103 55.7 44.3 66.5





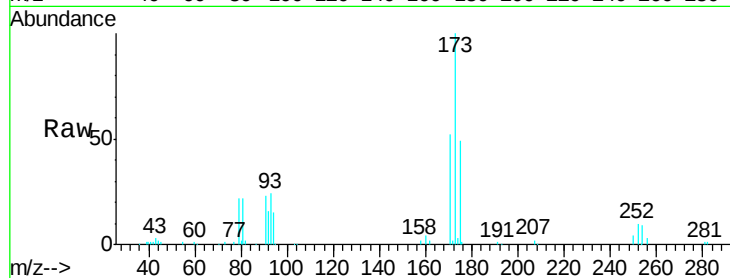
#71  
Bromoform  
Concen: 21.953 ug/l  
RT: 12.13 min Scan# 3221  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1031WBSD01

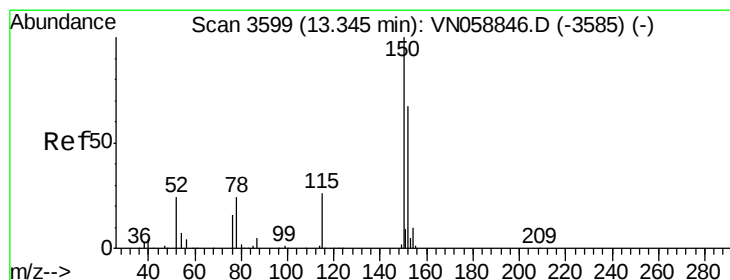
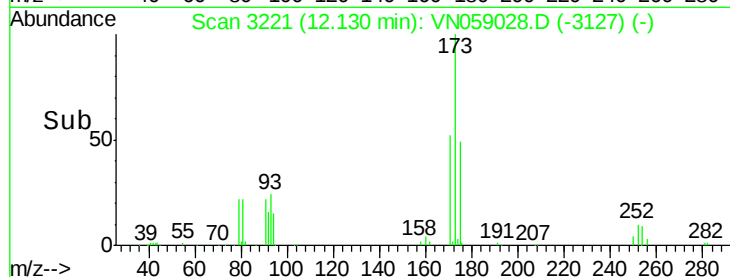
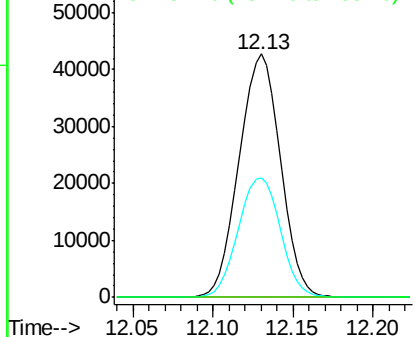
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 50.2  | 24.7  | 74.1  |
| 254     | 0.0   | 0.0   | 0.0   |

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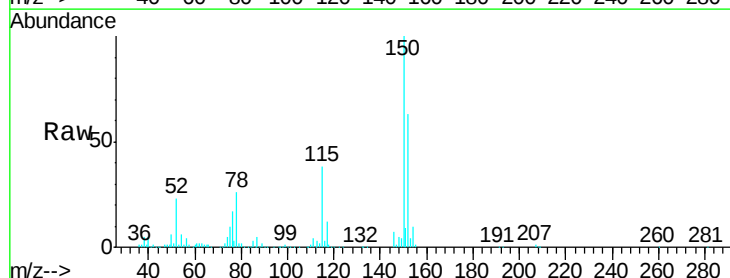


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

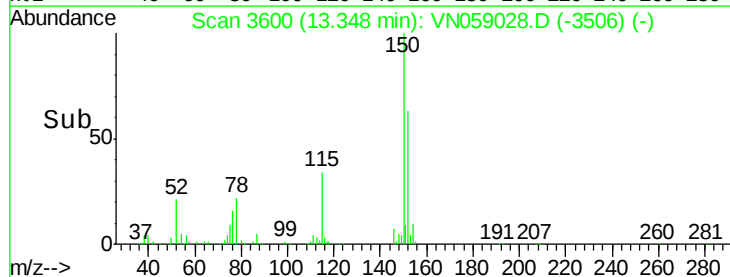
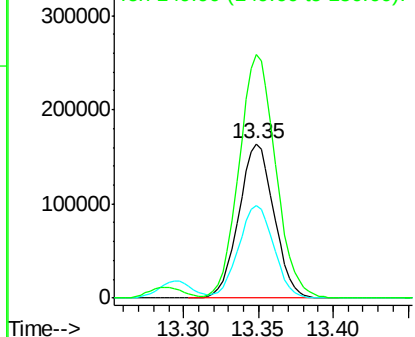


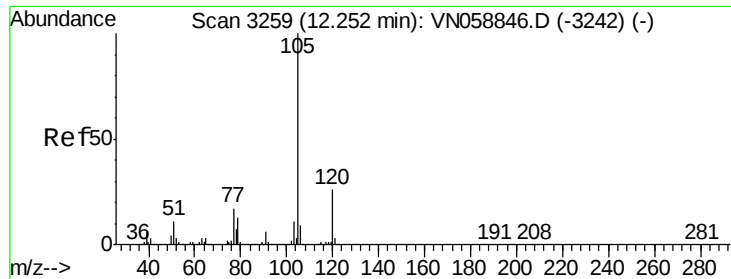
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN059028.D  
Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.3  | 30.5  | 91.5  |
| 150     | 164.8 | 0.0   | 344.4 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.632 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 105 Resp: 442023

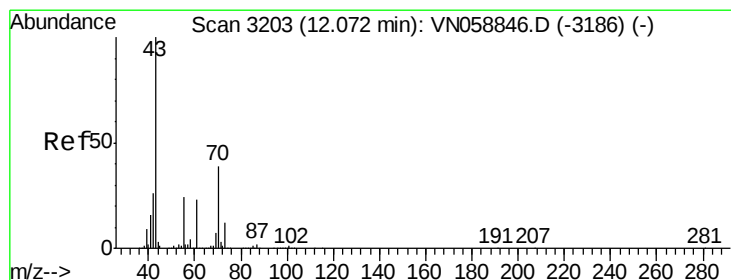
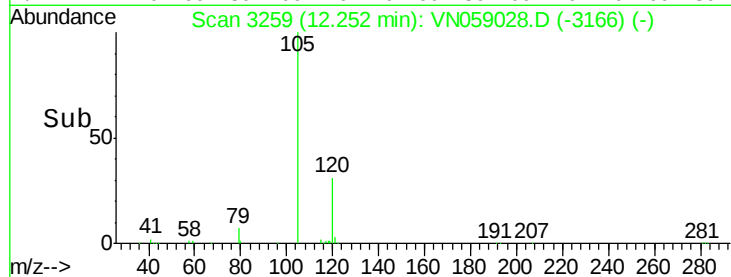
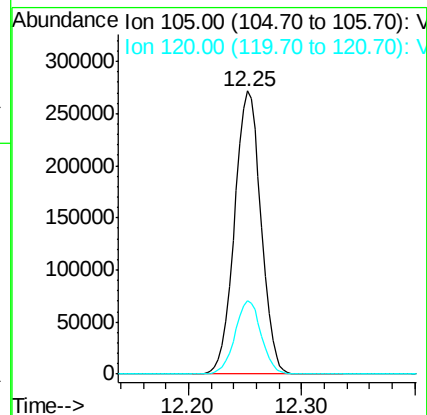
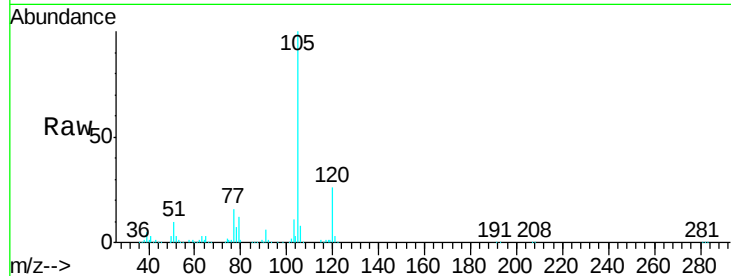
Ion Ratio Lower Upper

105 100

120 25.6 12.8 38.4

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#74

N-ethyl acetate

Concen: 22.361 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Tgt Ion: 43 Resp: 197986

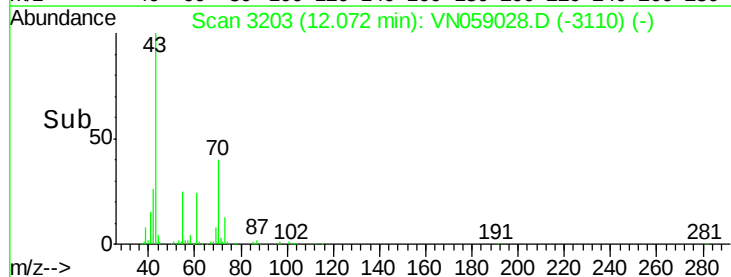
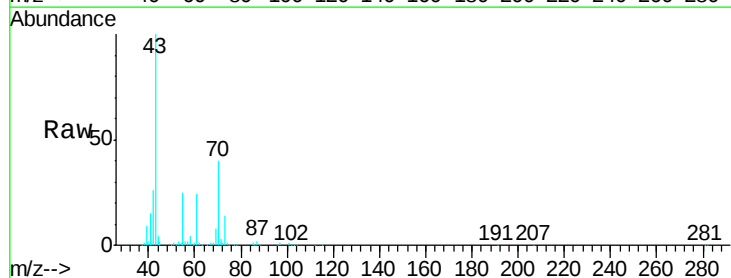
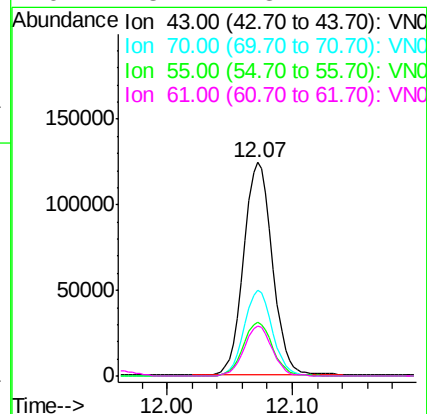
Ion Ratio Lower Upper

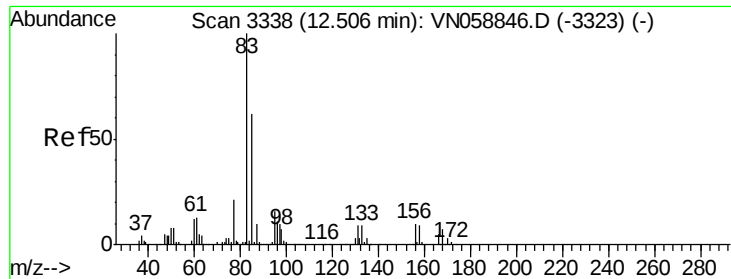
43 100

70 39.8 30.9 46.3

55 25.9 19.7 29.5

61 23.1 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 22.919 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 83 Resp: 157394  
Ion Ratio Lower Upper

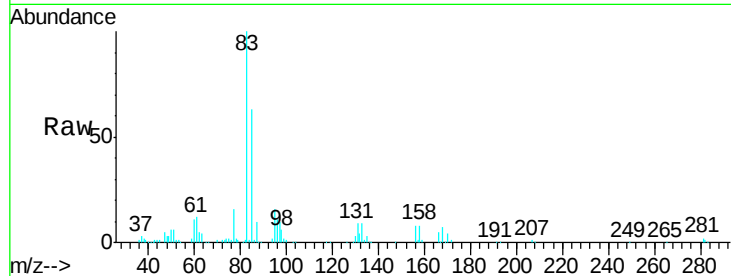
83 100

131 9.1 4.7 14.1

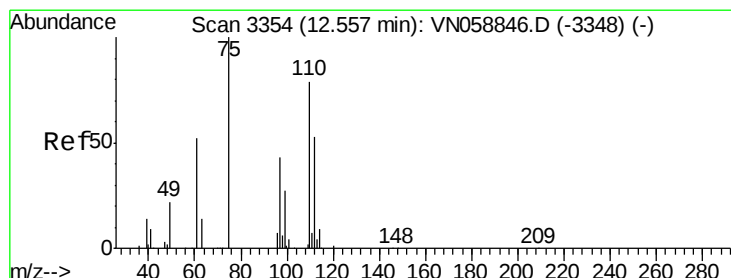
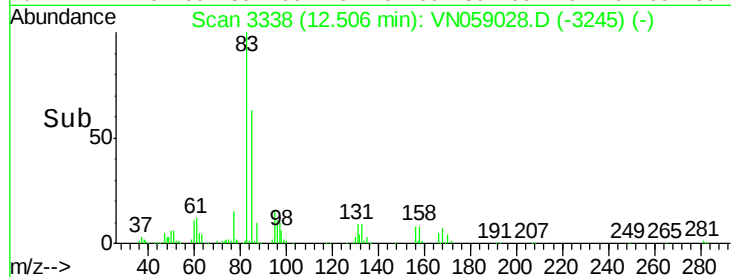
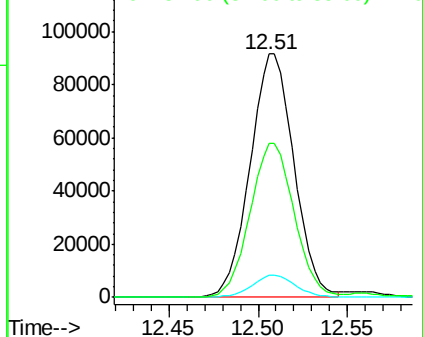
85 63.8 31.7 95.1

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Abundance Ion 82.90 (82.60 to 83.60): VN058846.D (-3323) (-)  
Ion 130.80 (130.50 to 131.50): VN058846.D (-3323) (-)  
Ion 84.90 (84.60 to 85.60): VN058846.D (-3323) (-)



#76

1,2,3-Trichloropropane

Concen: 22.770 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

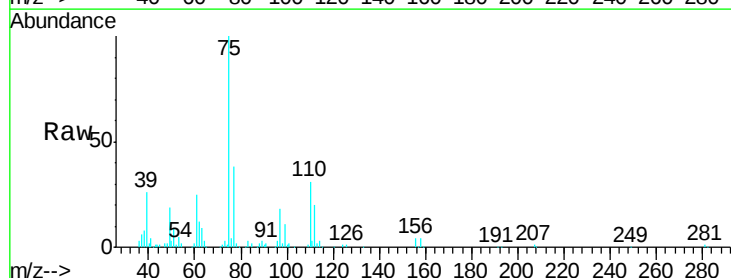
Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

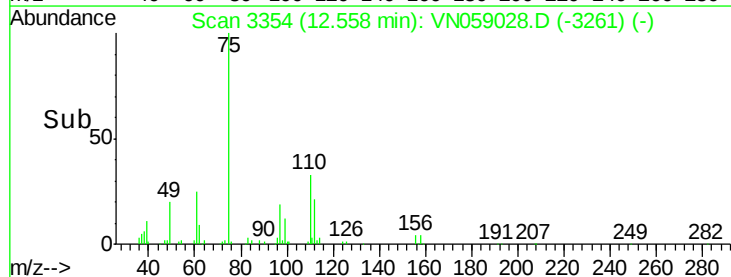
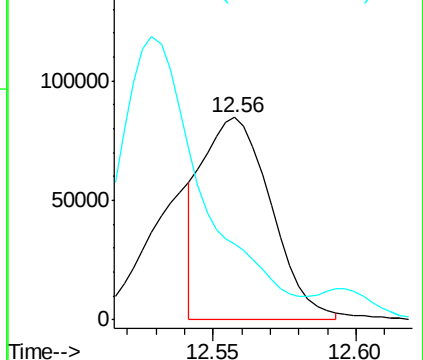
Tgt Ion: 75 Resp: 141030  
Ion Ratio Lower Upper

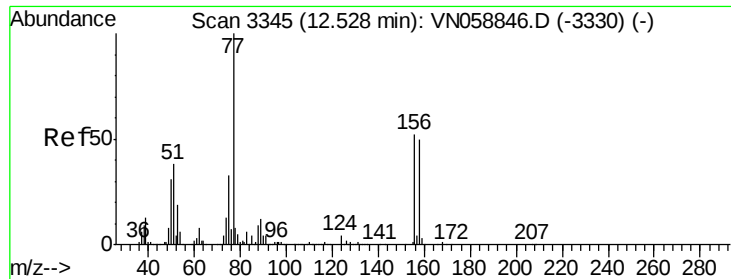
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3348) (-)  
Ion 77.00 (76.70 to 77.70): VN058846.D (-3348) (-)





#77

Bromobenzene

Concen: 22.354 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

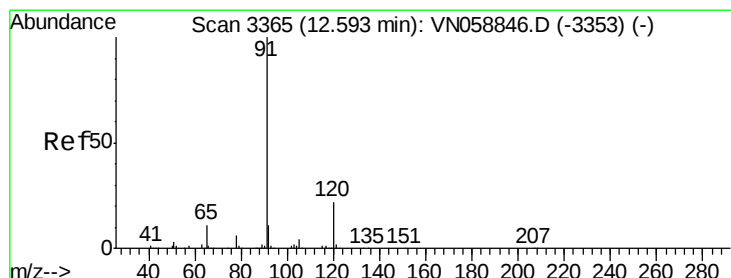
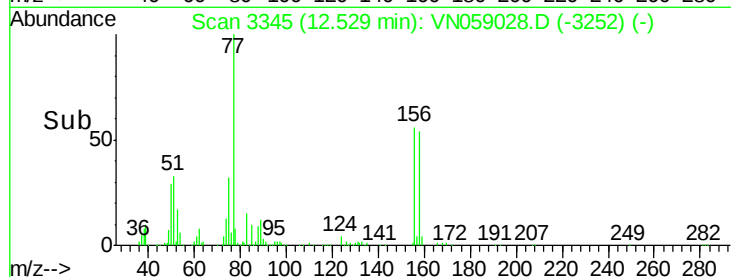
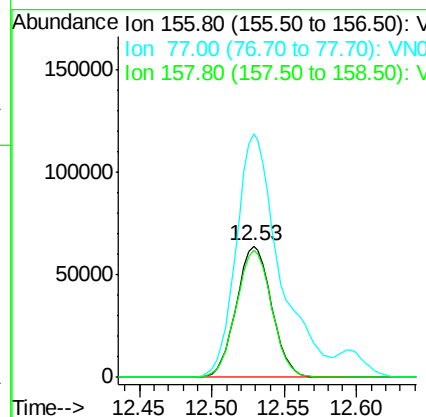
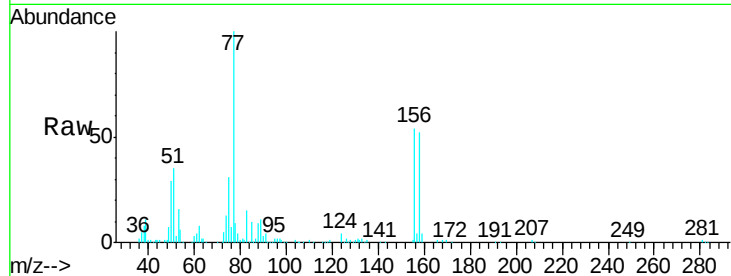
ClientSampleId :

VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 230.2 | 118.0 | 354.0 |
| 158     | 97.6  | 48.3  | 144.8 |

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#78

n-propylbenzene

Concen: 22.512 ug/l

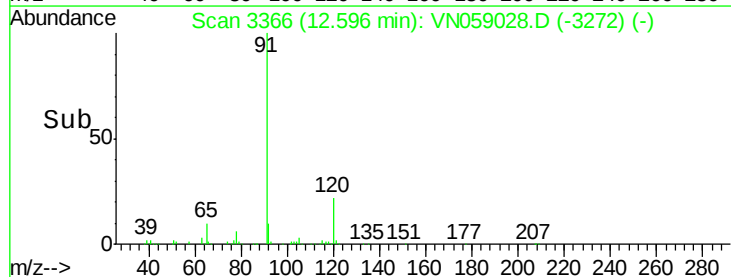
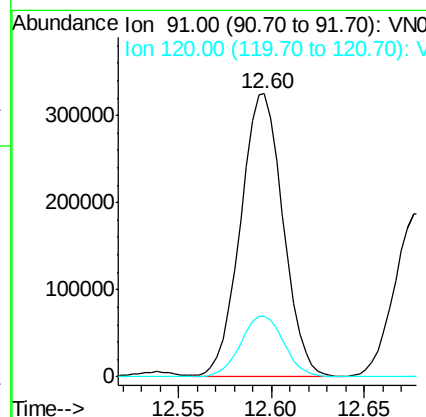
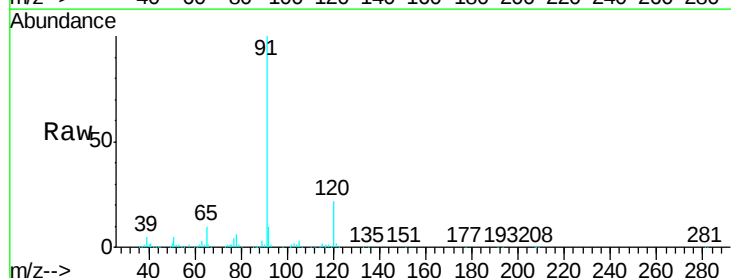
RT: 12.60 min Scan# 3366

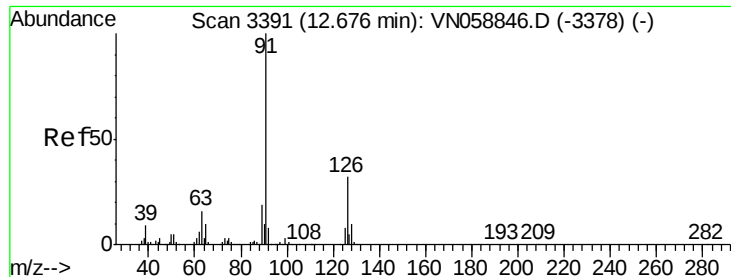
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 21.8  | 11.1  | 33.1  |





#79

2-Chlorotoluene

Concen: 22.079 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

MSVOA\_N

ClientSampleId :

VN1031WBSD01

Tgt Ion: 91 Resp: 311962

Ion Ratio Lower Upper

91 100

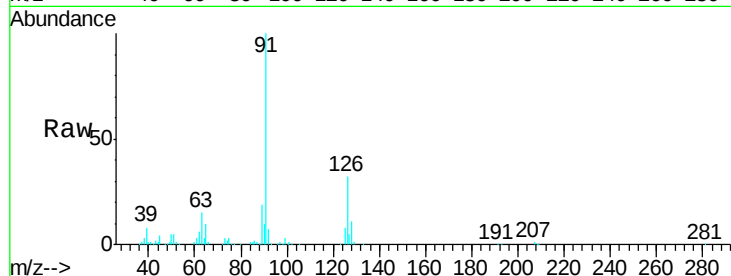
126 32.6 16.2 48.6

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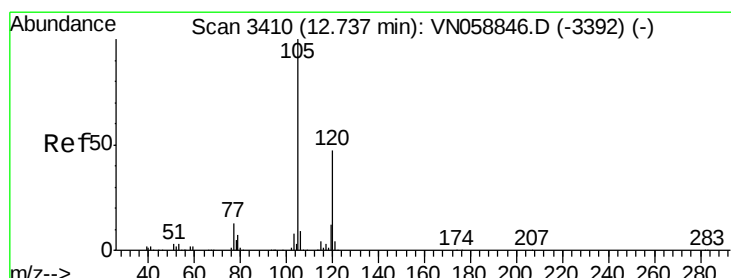
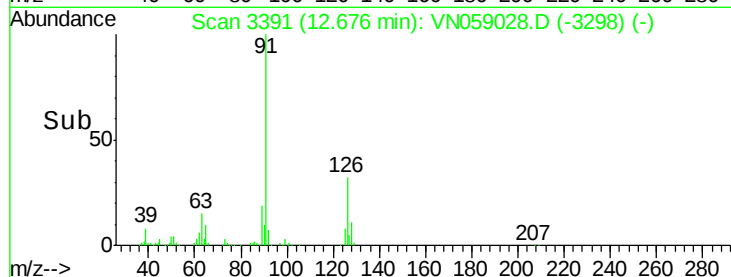
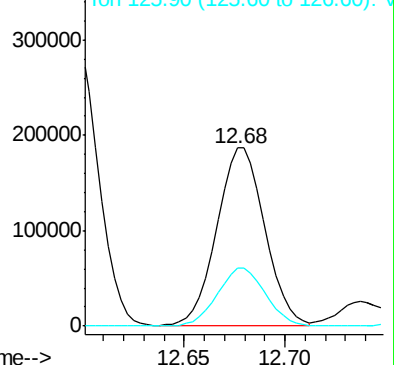
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Abundance Ion 91.00 (90.70 to 91.70): VN058846.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.622 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN059028.D

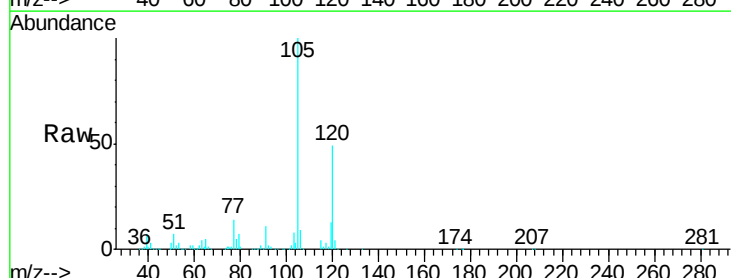
Acq: 31 Oct 2019 10:33

Tgt Ion: 105 Resp: 371204

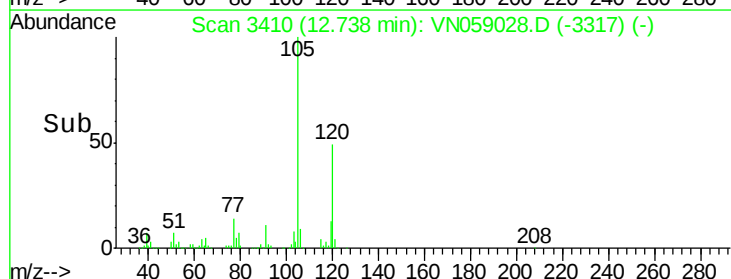
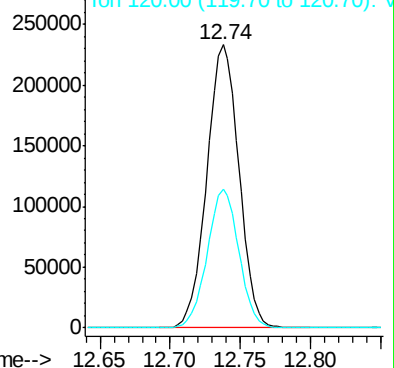
Ion Ratio Lower Upper

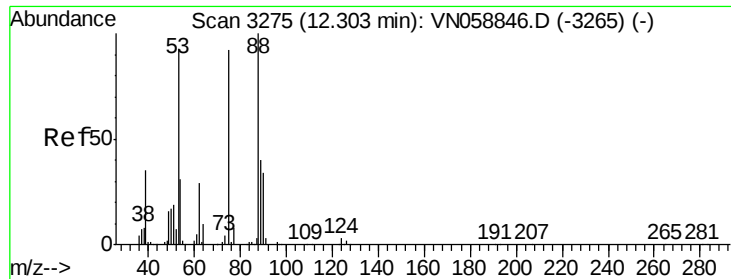
105 100

120 48.4 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): VN058846.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 21.814 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

Instrument :

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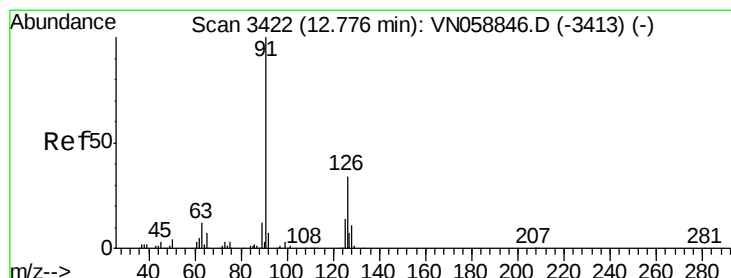
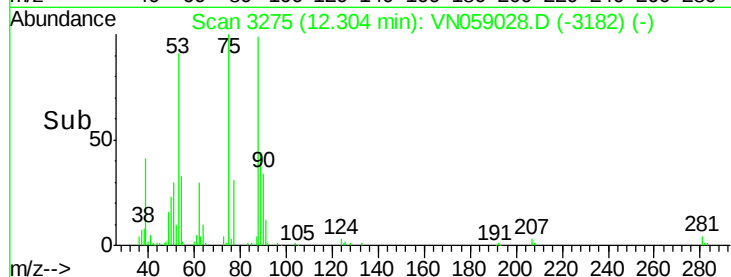
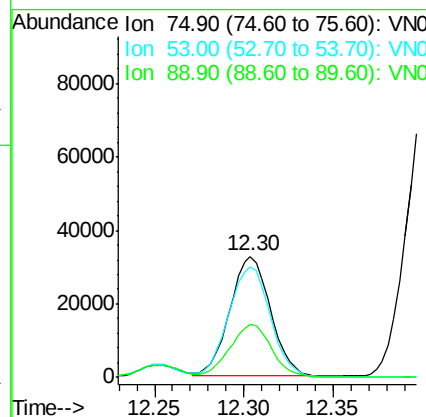
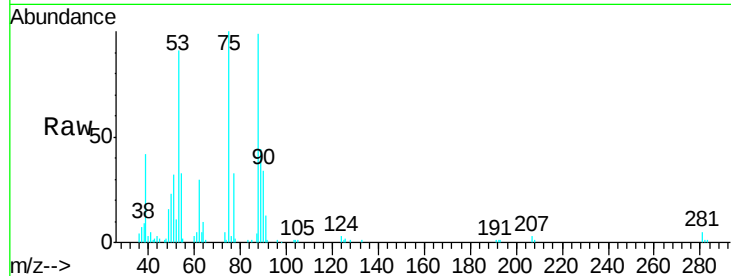
ClientSampleId :

VN1031WBSD01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 51864 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 53        | 94.3  | 78.6  | 118.0 |
| 89        | 45.6  | 35.4  | 53.0  |

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#82

4-Chlorotoluene

Concen: 21.917 ug/l

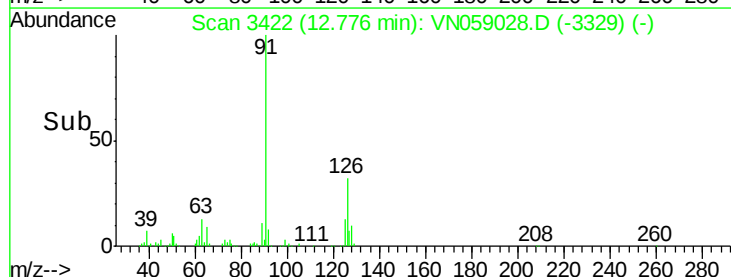
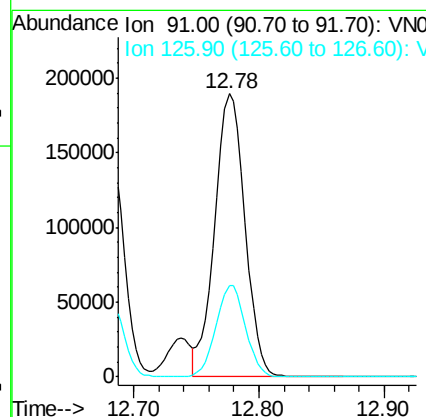
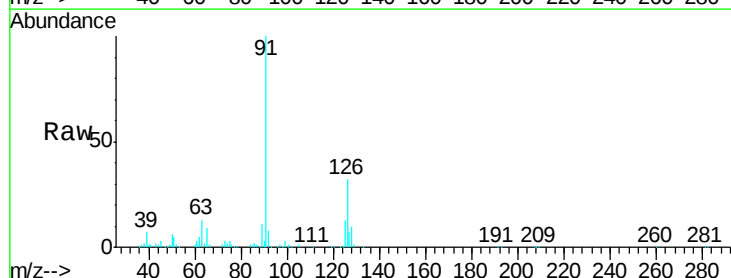
RT: 12.78 min Scan# 3422

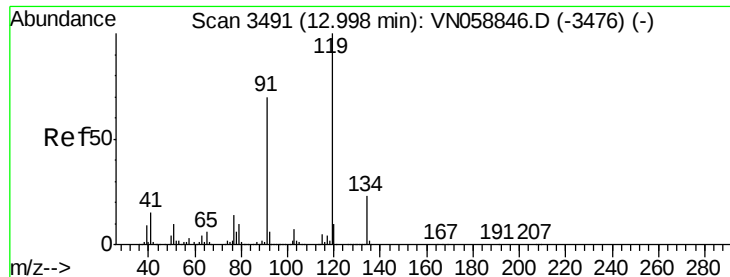
Delta R.T. 0.00 min

Lab File: VN059028.D

Acq: 31 Oct 2019 10:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 316460 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 126       | 31.7  | 16.0  | 47.9   |





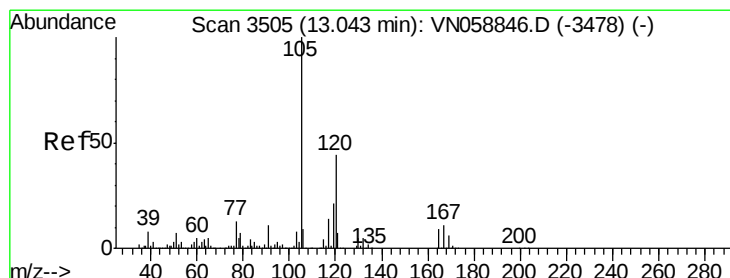
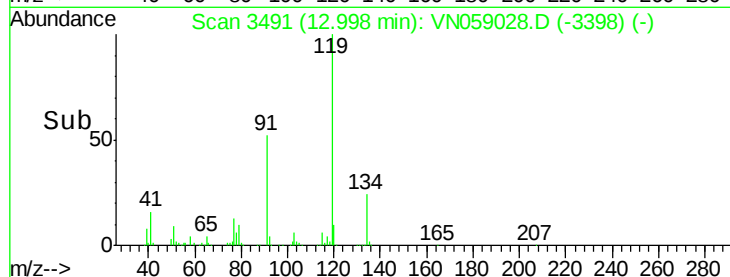
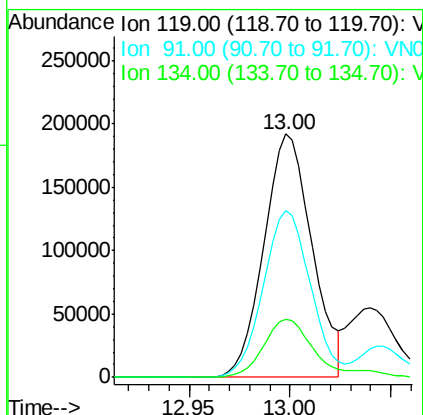
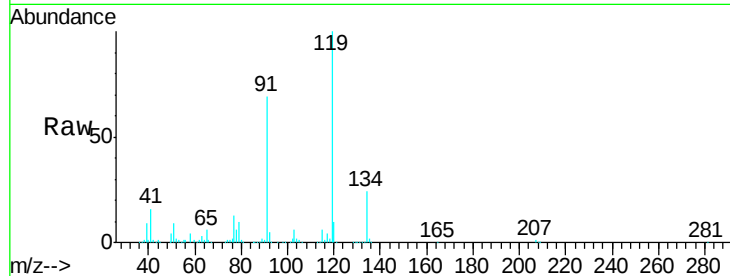
#83  
 tert-Butylbenzene  
 Concen: 22.617 ug/l  
 RT: 13.00 min Scan# 3491  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1031WBSD01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 67.5  | 34.1  | 102.3 |
| 134     | 26.2  | 11.6  | 34.8  |

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#84  
 1,2,4-Trimethylbenzene  
 Concen: 22.652 ug/l  
 RT: 13.04 min Scan# 3505  
 Delta R.T. 0.00 min  
 Lab File: VN059028.D  
 Acq: 31 Oct 2019 10:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.0  | 21.9  | 65.8  |

