

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
 Data File : VY000684.D  
 Acq On : 14 Nov 2019 20:27  
 Operator : SY/MD  
 Sample : MDL5  
 Misc : 5ML/MSVOA Y/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

Manual Integrations  
 APPROVED

MMDadoda  
 11/15/2019 3:05:16 PM

Quant Time: Nov 15 10:41:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 15 10:16:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.70  | 114  | 296015   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.49 | 117  | 266127   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 121825   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.24    | 65    | 121187   | 52.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 104.24% |
| 7) Chloroethane-d5             | 2.76    | 69    | 105312   | 54.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 109.88% |
| 11) 1,1-Dichloroethene-d2      | 3.85    | 63    | 167292   | 41.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.68%  |
| 21) 2-Butanone-d5              | 6.91    | 46    | 113949   | 124.23   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 124.23% |
| 24) Chloroform-d               | 7.49    | 84    | 198246   | 59.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.32% |
| 26) 1,2-Dichloroethane-d4      | 8.15    | 65    | 130105   | 55.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.06% |
| 32) Benzene-d6                 | 8.12    | 84    | 423042   | 56.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 113.68% |
| 36) 1,2-Dichloropropane-d6     | 9.13    | 67    | 131437   | 57.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 114.48% |
| 41) Toluene-d8                 | 10.18   | 98    | 368841   | 53.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.04% |
| 43) trans-1,3-Dichloropropene- | 10.44   | 79    | 63770    | 55.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 111.00% |
| 47) 2-Hexanone-d5              | 10.79   | 63    | 78770    | 116.36   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 116.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.56   | 84    | 145465   | 53.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 107.42% |
| 64) 1,2-Dichlorobenzene-d4     | 13.72   | 152   | 132124   | 56.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 112.12% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.90 | 85  | 3568  | 2.111 ug/L   | 96     |
| 3) Chloromethane               | 2.11 | 50  | 5563  | 2.475 ug/L   | 95     |
| 5) Vinyl chloride              | 2.25 | 62  | 5496  | 2.438 ug/L # | 63     |
| 6) Bromomethane                | 2.66 | 94  | 3296  | 2.544 ug/L   | 74     |
| 8) Chloroethane                | 2.79 | 64  | 3328m | 2.352 ug/L   |        |
| 9) Trichlorofluoromethane      | 3.13 | 101 | 7442  | 2.236 ug/L   | 95     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.90 | 101 | 5297m | 2.852 ug/L   |        |
| 12) 1,1-Dichloroethene         | 3.87 | 96  | 5740m | 3.089 ug/L   |        |
| 13) Acetone                    | 3.96 | 43  | 4422m | 6.696 ug/L   |        |
| 14) Carbon disulfide           | 4.19 | 76  | 12349 | 2.409 ug/L   | 95     |
| 15) Methyl Acetate             | 4.48 | 43  | 3954  | 2.382 ug/L # | 78     |
| 16) Methylene chloride         | 4.72 | 84  | 5486  | 2.761 ug/L   | 96     |
| 17) trans-1,2-Dichloroethene   | 5.23 | 96  | 4440m | 2.288 ug/L   |        |
| 18) Methyl tert-butyl Ether    | 5.23 | 73  | 12836 | 2.198 ug/L # | 70     |
| 19) 1,1-Dichloroethane         | 6.03 | 63  | 8339  | 2.391 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 6.99 | 96  | 4648  | 2.137 ug/L   | 92     |
| 22) 2-Butanone                 | 7.01 | 43  | 4508  | 4.338 ug/L   | 97     |

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 Sample : MDL5  
 Misc : 5ML/MSVOA Y/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

Manual Integrations  
 APPROVED

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Quant Time: Nov 15 10:41:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\SOMYLM111419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 15 10:16:24 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| -----                           |       |      |          |       |        |          |
| 23) Bromochloromethane          | 7.34  | 128  | 2573     | 2.567 | ug/L # | 82       |
| 25) Chloroform                  | 7.52  | 83   | 12274    | 3.074 | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 8.24  | 62   | 6268     | 2.299 | ug/L   | 98       |
| 29) Cyclohexane                 | 7.79  | 56   | 5715     | 1.840 | ug/L # | 77       |
| 30) 1,1,1-Trichloroethane       | 7.71  | 97   | 6969     | 2.397 | ug/L # | 74       |
| 31) Carbon tetrachloride        | 7.91  | 117  | 5311     | 2.041 | ug/L # | 68       |
| 33) Benzene                     | 8.17  | 78   | 17996    | 2.270 | ug/L   | 100      |
| 34) Trichloroethene             | 8.94  | 95   | 4760     | 2.391 | ug/L   | 89       |
| 35) Methylcyclohexane           | 9.18  | 83   | 5780     | 1.759 | ug/L # | 82       |
| 37) 1,2-Dichloropropane         | 9.22  | 63   | 3878     | 1.972 | ug/L   | 100      |
| 38) Bromodichloromethane        | 9.50  | 83   | 5621     | 2.128 | ug/L # | 81       |
| 39) cis-1,3-Dichloropropene     | 9.93  | 75   | 7799     | 2.334 | ug/L   | 92       |
| 40) 4-Methyl-2-pentanone        | 10.07 | 43   | 9740     | 4.318 | ug/L   | 95       |
| 42) Toluene                     | 10.24 | 91   | 18438    | 2.197 | ug/L   | 92       |
| 44) trans-1,3-Dichloropropene   | 10.46 | 75   | 6895     | 2.357 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 10.64 | 97   | 4191     | 2.246 | ug/L   | 90       |
| 46) Tetrachloroethene           | 10.72 | 164  | 2849     | 1.850 | ug/L   | 86       |
| 48) 2-Hexanone                  | 10.83 | 43   | 8906     | 5.468 | ug/L   | 97       |
| 49) Dibromochloromethane        | 10.99 | 129  | 4444     | 2.199 | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 11.10 | 107  | 4086     | 2.188 | ug/L # | 98       |
| 51) Chlorobenzene               | 11.51 | 112  | 11805    | 2.184 | ug/L   | 96       |
| 52) Ethylbenzene                | 11.59 | 91   | 19567    | 2.043 | ug/L   | 93       |
| 53) m,p-Xylene                  | 11.69 | 106  | 7803     | 2.119 | ug/L   | 75       |
| 54) o-xylene                    | 12.02 | 106  | 7331     | 2.030 | ug/L   | 62       |
| 55) Styrene                     | 12.04 | 104  | 11568    | 1.885 | ug/L   | 94       |
| 56) Isopropylbenzene            | 12.32 | 105  | 18191    | 1.968 | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.58 | 83   | 6243     | 2.366 | ug/L   | 87       |
| 59) 1,2,3-Trichloropropane      | 12.63 | 75   | 5148     | 2.465 | ug/L   | 99       |
| 61) Bromoform                   | 12.20 | 173  | 2445m    | 1.982 | ug/L   |          |
| 62) 1,3-Dichlorobenzene         | 13.36 | 146  | 8465     | 2.216 | ug/L   | 83       |
| 63) 1,4-Dichlorobenzene         | 13.44 | 146  | 9169     | 2.342 | ug/L   | 93       |
| 65) 1,2-Dichlorobenzene         | 13.74 | 146  | 8717     | 2.316 | ug/L # | 82       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.36 | 75   | 1037     | 2.281 | ug/L # | 80       |
| 67) 1,3,5-Trichlorobenzene      | 14.50 | 180  | 6330     | 2.374 | ug/L   | 90       |
| 68) 1,2,4-trichlorobenzene      | 15.01 | 180  | 5010     | 2.003 | ug/L   | 95       |
| 69) Naphthalene                 | 15.23 | 128  | 16197    | 2.167 | ug/L   | 97       |
| 70) 1,2,3-Trichlorobenzene      | 15.41 | 180  | 5320     | 2.210 | ug/L   | 97       |
| -----                           |       |      |          |       |        |          |

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

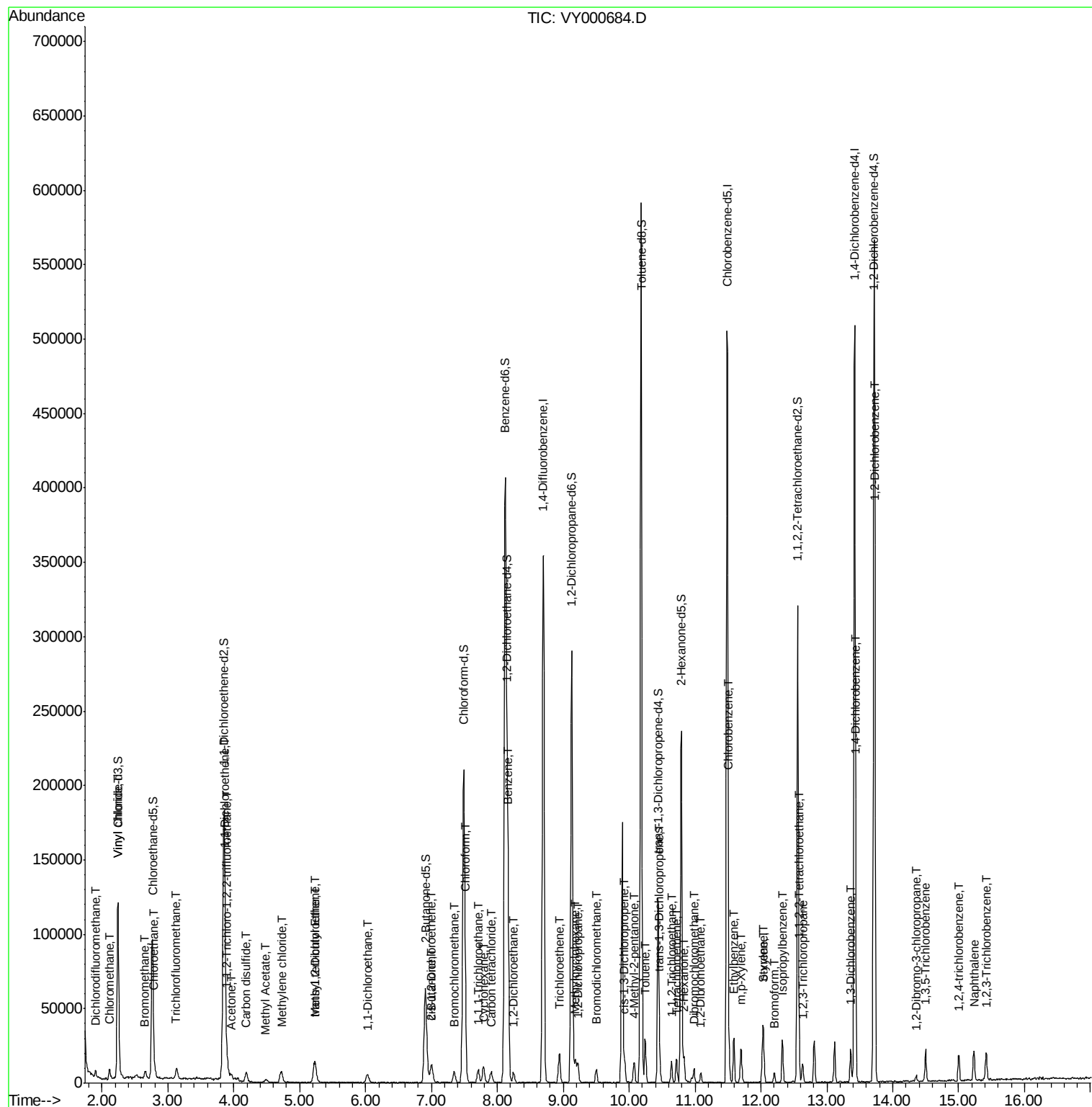
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY111419\  
Data File : VY000684.D  
Acq On : 14 Nov 2019 20:27  
Operator : SY/MD  
Sample : MDL5  
Misc : 5ML/MSVOA Y/WATER  
ALS Vial : 16 Sample Multiplier: 1

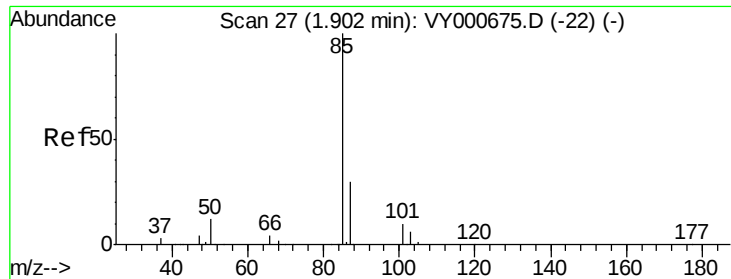
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

Manual Integrations  
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Quant Title : VOC Analysis  
QLast Update : Fri Nov 15 10:16:24 2019  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.111 ug/L

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampled :

MDL5

Tot Ion: 85 Resp: 3568

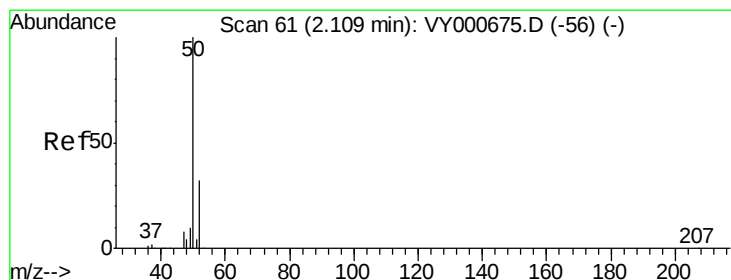
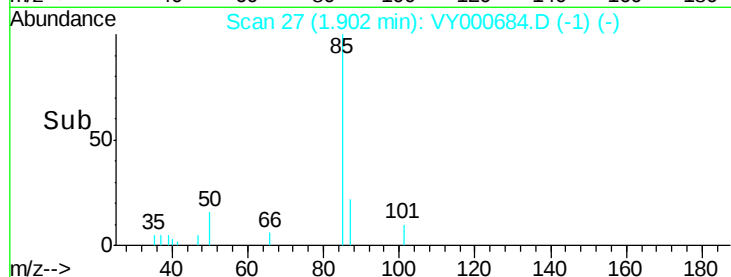
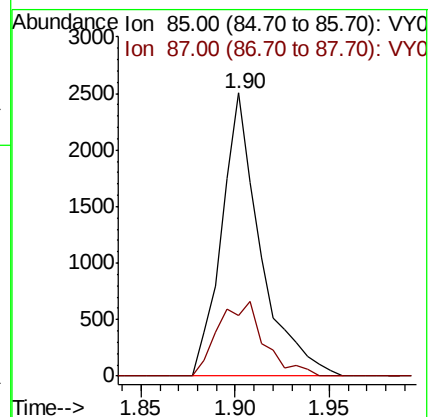
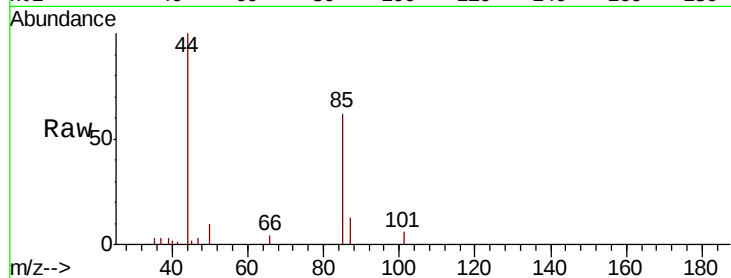
Ion Ratio Lower Upper

85 100

87 29.9 25.8 38.6

Manual Integrations  
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#3

Chloromethane

Concen: 2.475 ug/L

RT: 2.11 min Scan# 61

Delta R.T. 0.00 min

Lab File: VY000684.D

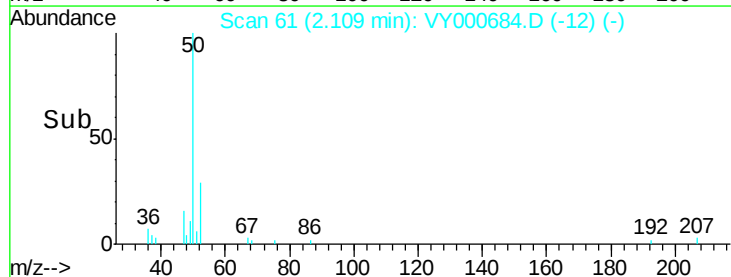
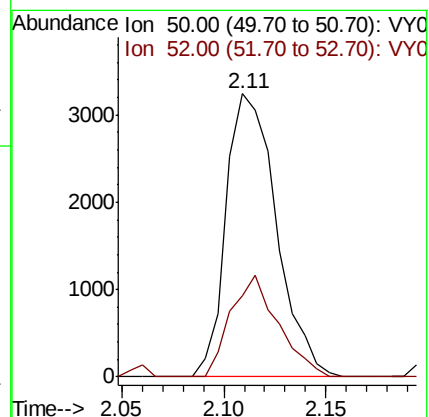
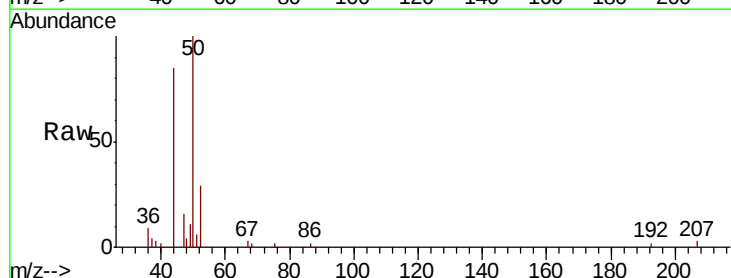
Acq: 14 Nov 2019 20:27

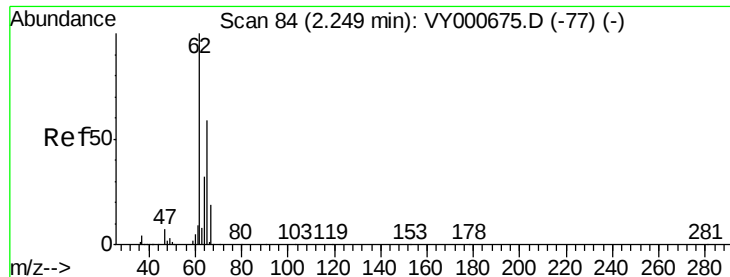
Tgt Ion: 50 Resp: 5563

Ion Ratio Lower Upper

50 100

52 28.7 22.2 41.2





#5

Vinyl chloride

Concen: 2.438 ug/L

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampleId :

MDL5

Tot Ion: 62 Resp: 5496

Ion Ratio Lower Upper

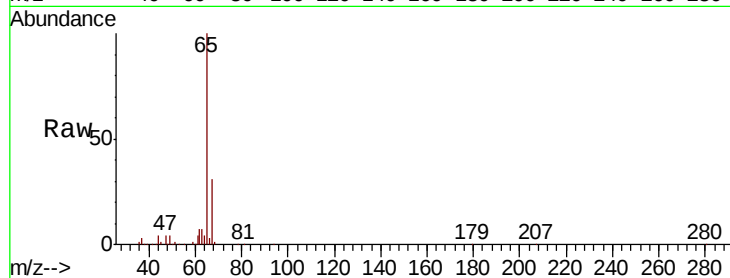
62 100

64 53.1 22.7 42.1#

Manual Integrations  
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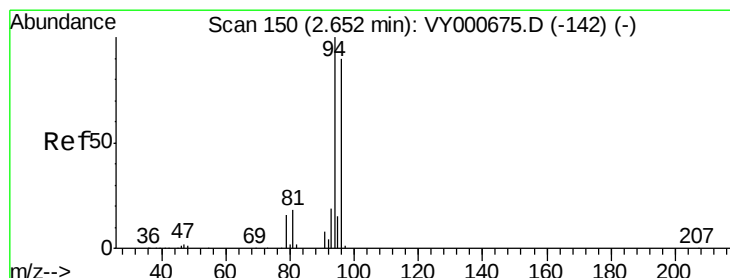
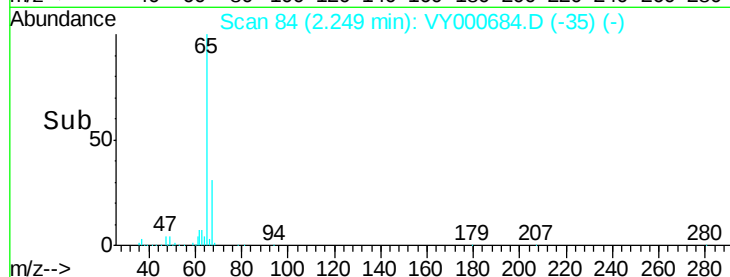
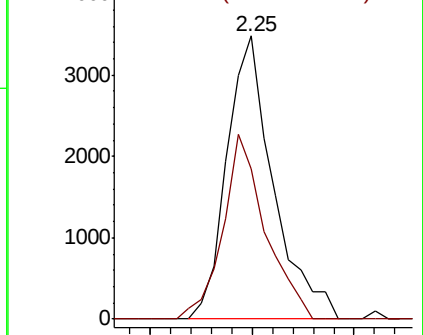
MMDadoda

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Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 2.544 ug/L

RT: 2.66 min Scan# 151

Delta R.T. 0.01 min

Lab File: VY000684.D

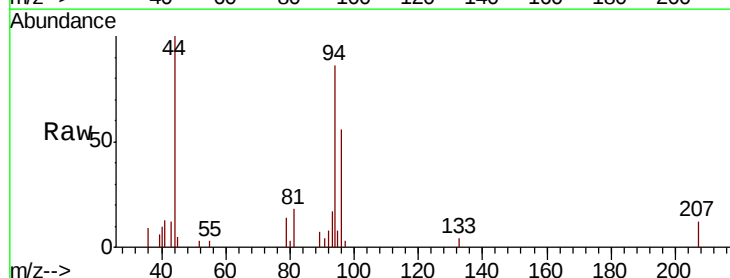
Acq: 14 Nov 2019 20:27

Tgt Ion: 94 Resp: 3296

Ion Ratio Lower Upper

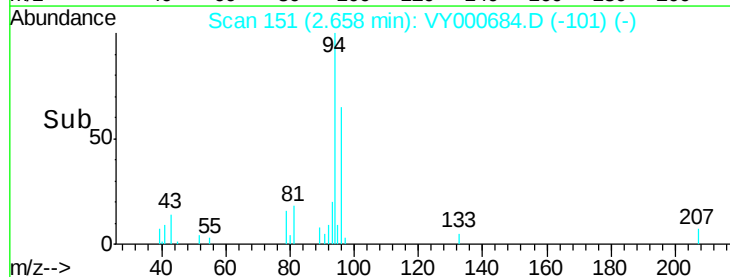
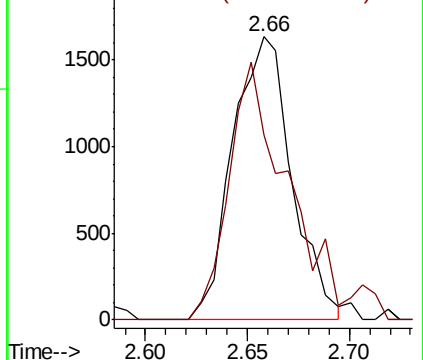
94 100

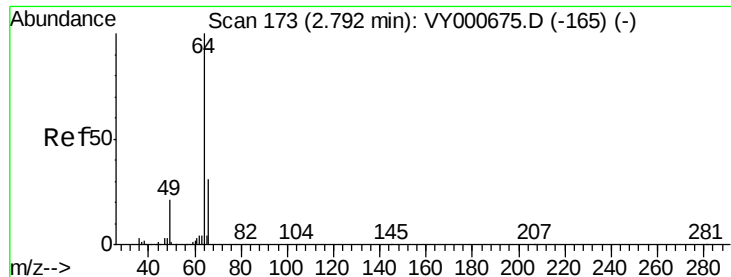
96 65.2 63.0 117.0



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





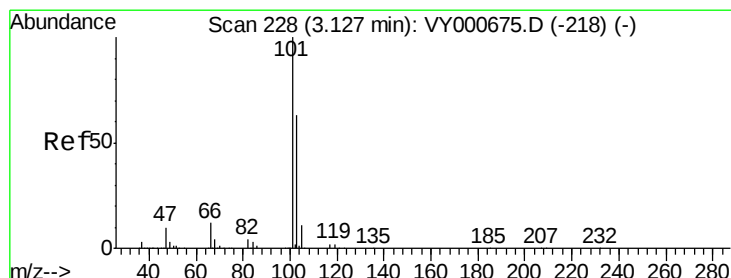
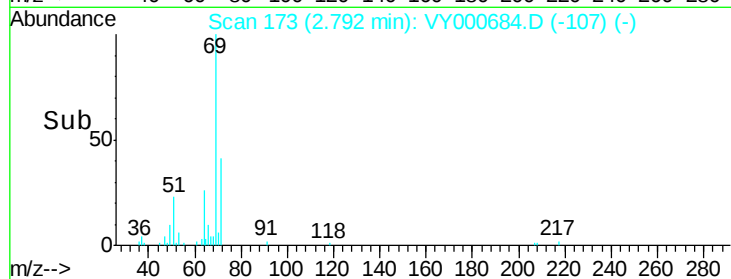
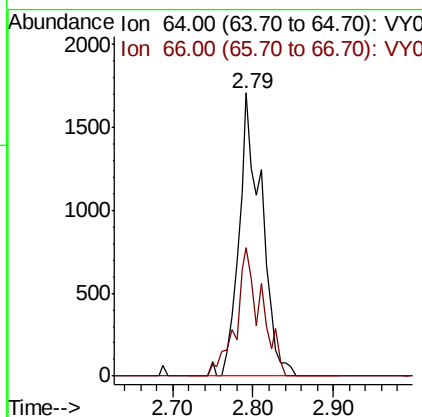
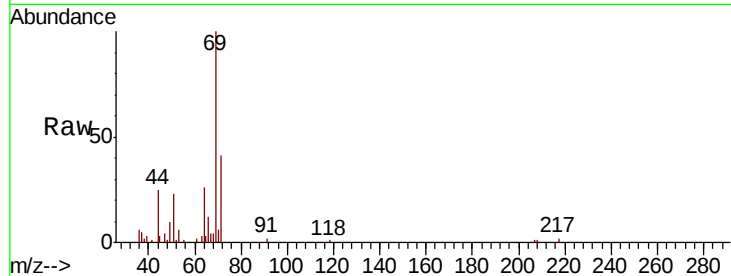
#8  
Chloroethane  
Concen: 2.352 ug/L m  
RT: 2.79 min Scan# 173  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 45.2  | 21.7  | 40.3# |

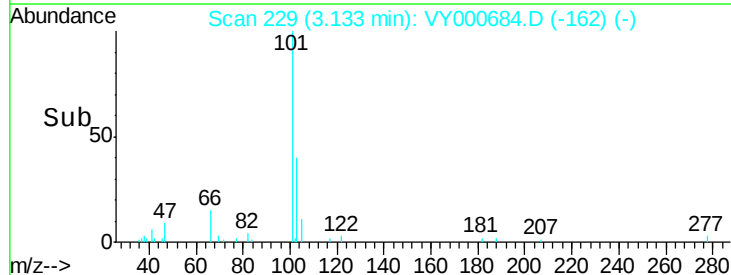
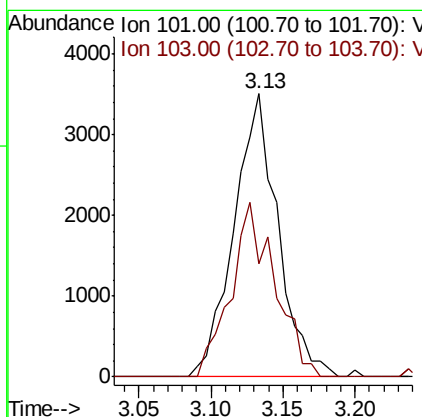
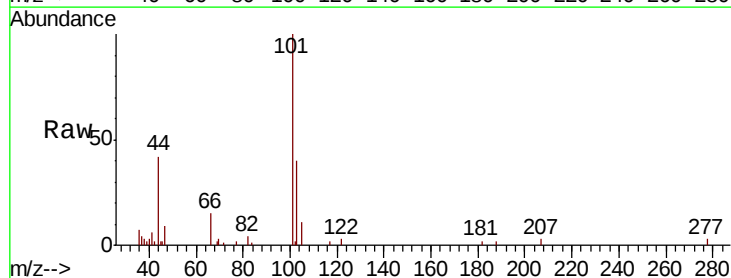
Manual Integrations  
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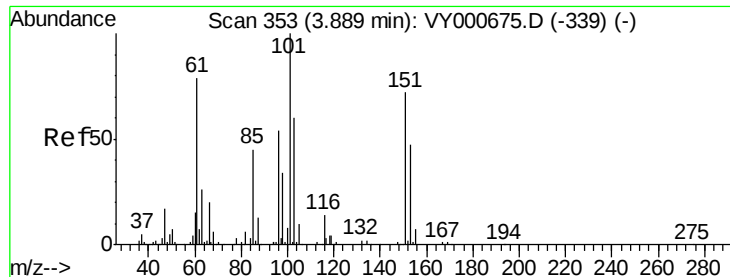
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#9  
Trichlorofluoromethane  
Concen: 2.236 ug/L  
RT: 3.13 min Scan# 229  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 61.7  | 52.5  | 78.7  |





#10

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

Concen: 2.852 ug/L m

RT: 3.90 min Scan# 354

Delta R.T. 0.01 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

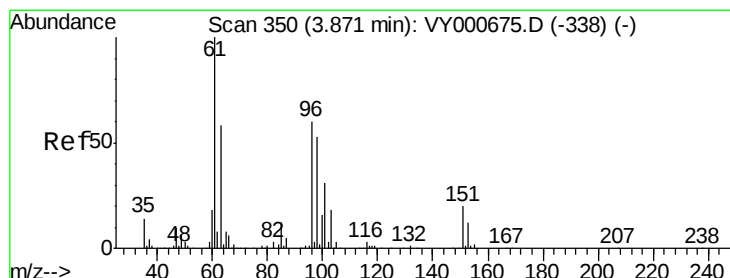
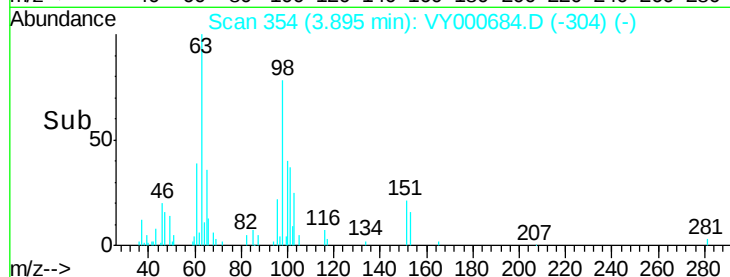
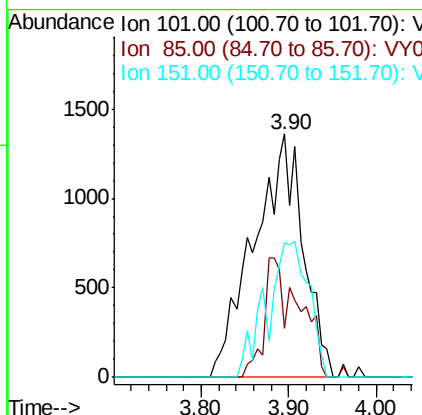
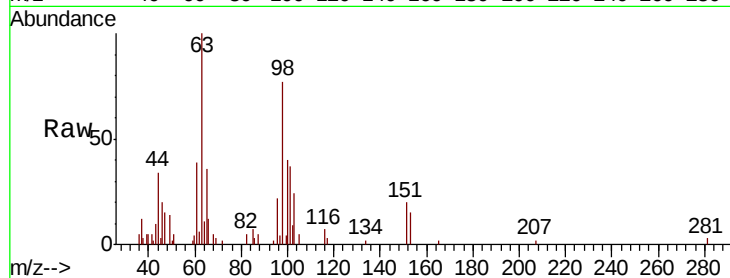
ClientSampleId :

MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 16.7  | 35.3  | 52.9# |
| 151     | 37.3  | 57.7  | 86.5# |

Manual Integrations  
APPROVED

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11/15/2019 3:05:16 PM



#12

1,1-Dichloroethene

Concen: 3.089 ug/L m

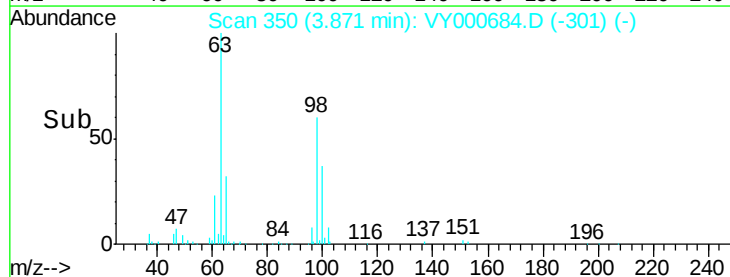
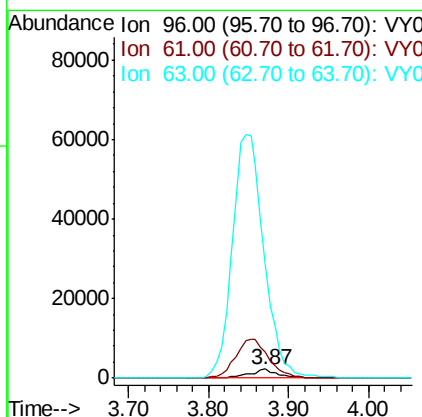
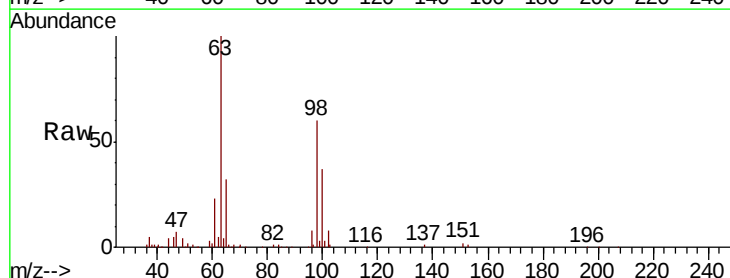
RT: 3.87 min Scan# 350

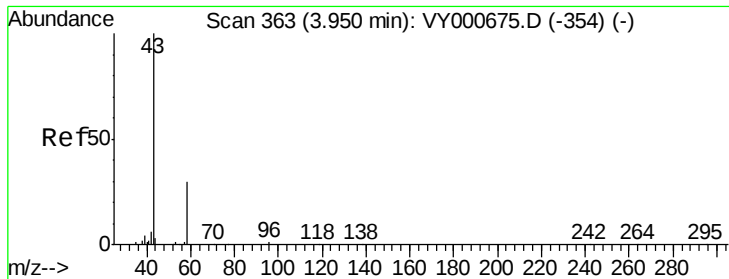
Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 96      | 100    |       |        |
| 61      | 283.8  | 117.5 | 218.3# |
| 63      | 1216.1 | 70.1  | 130.3# |





#13

Acetone

Concen: 6.696 ug/L m

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampleId :

MDL5

Tot Ion: 43 Resp: 4422

Ion Ratio Lower Upper

43 100

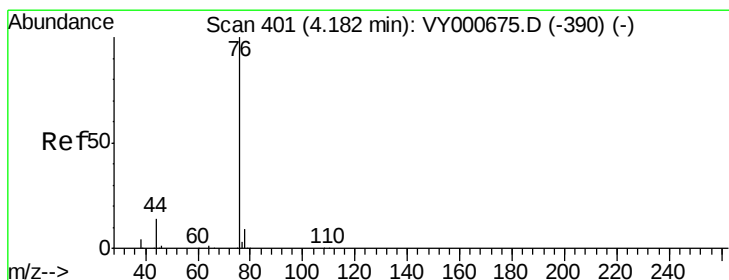
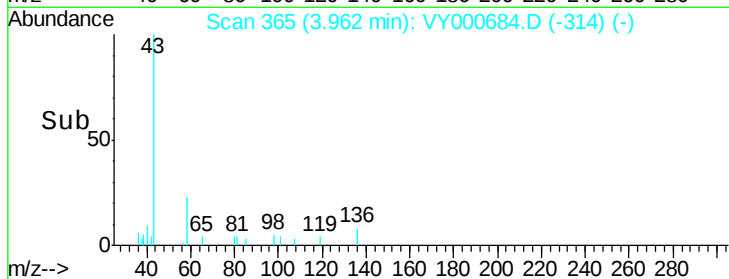
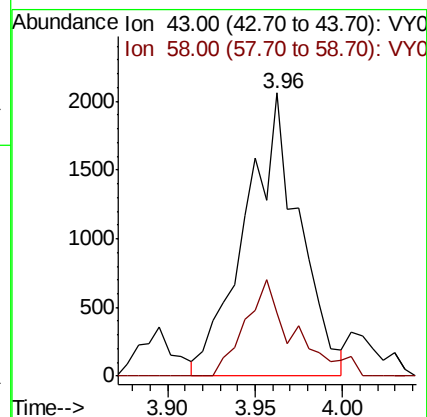
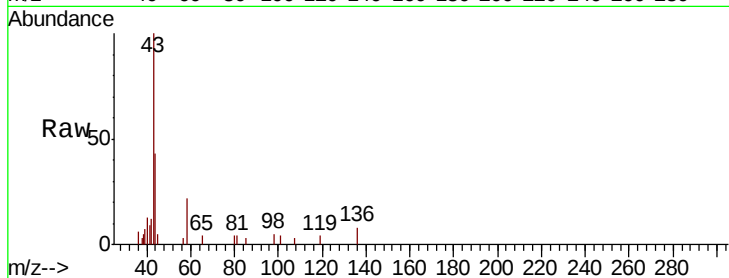
58 28.8 0.0 62.2

Manual Integrations

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#14

Carbon disulfide

Concen: 2.409 ug/L

RT: 4.19 min Scan# 402

Delta R.T. 0.01 min

Lab File: VY000684.D

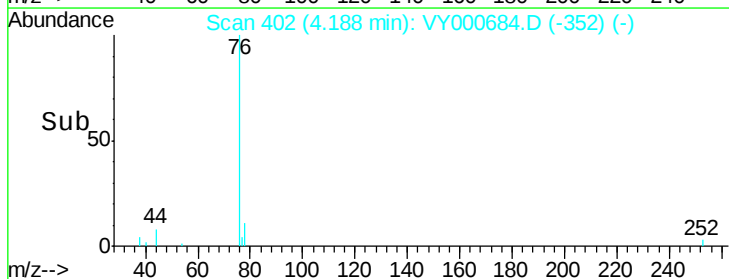
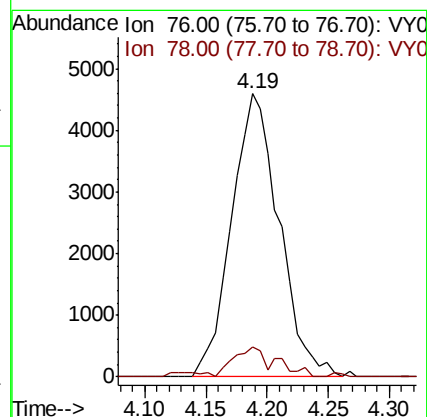
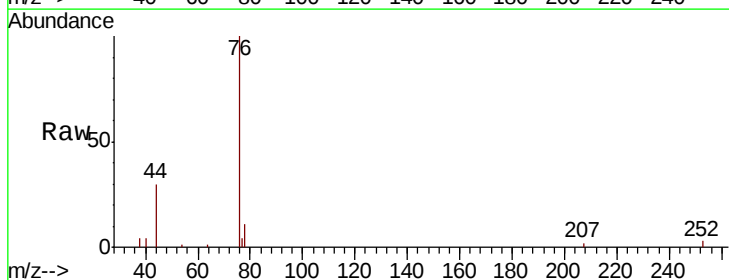
Acq: 14 Nov 2019 20:27

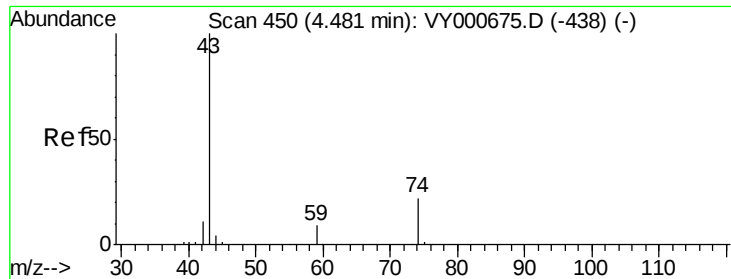
Tgt Ion: 76 Resp: 12349

Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6





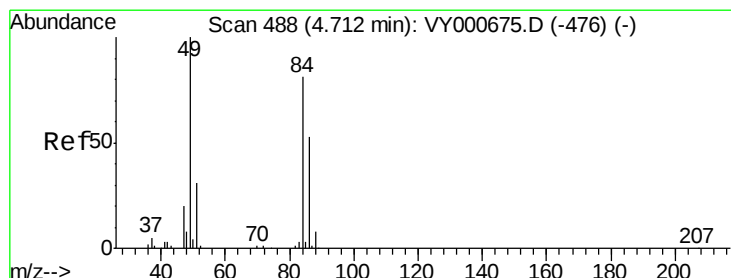
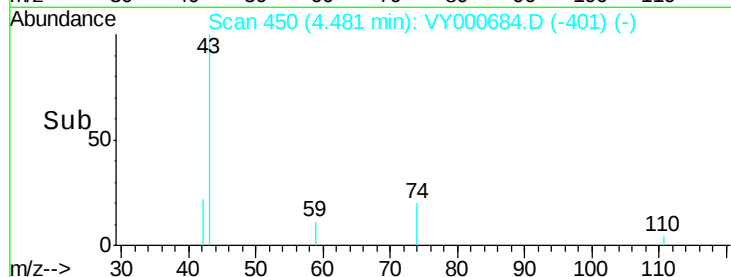
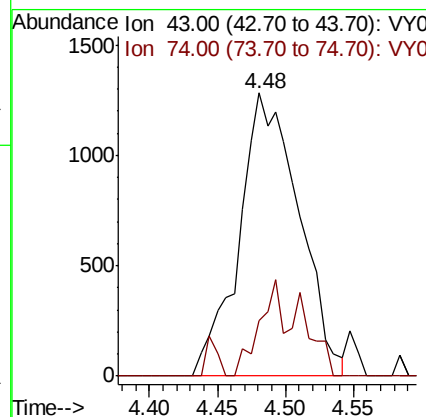
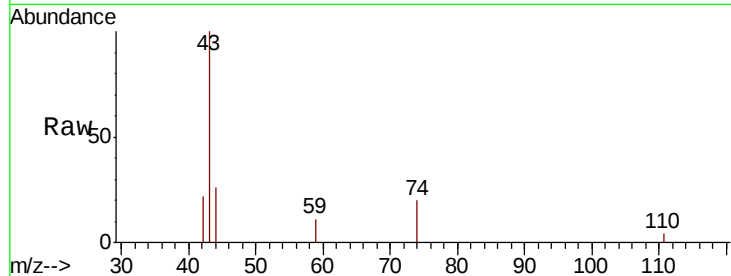
#15  
Methyl Acetate  
Concen: 2.382 ug/L  
RT: 4.48 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL5

Tot Ion: 43 Resp: 3954  
Ion Ratio Lower Upper  
43 100  
74 13.0 19.1 28.7#

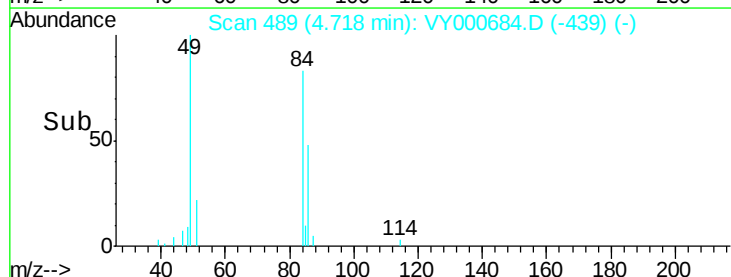
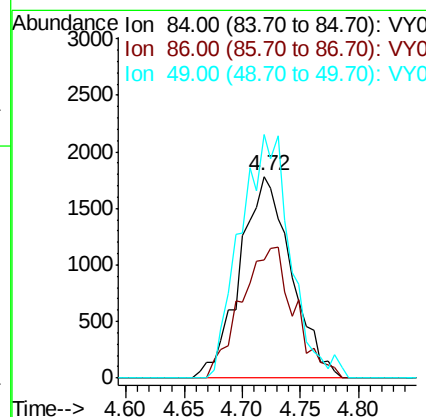
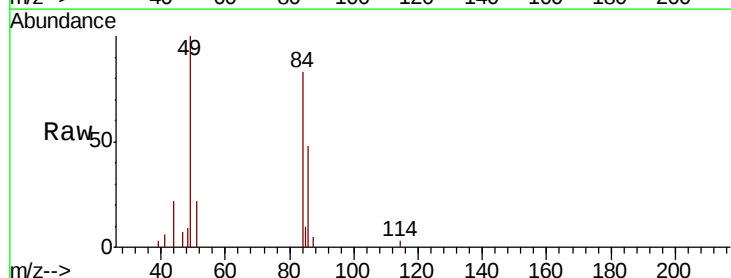
Manual Integrations  
APPROVED

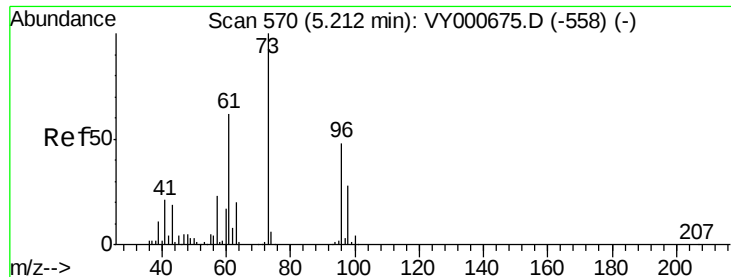
MMDadoda  
11/15/2019 3:05:16 PM



#16  
Methylene chloride  
Concen: 2.761 ug/L  
RT: 4.72 min Scan# 489  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Tgt Ion: 84 Resp: 5486  
Ion Ratio Lower Upper  
84 100  
86 58.5 45.9 85.3  
49 120.9 86.1 159.9





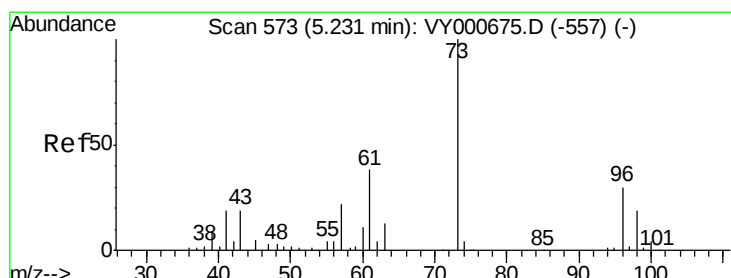
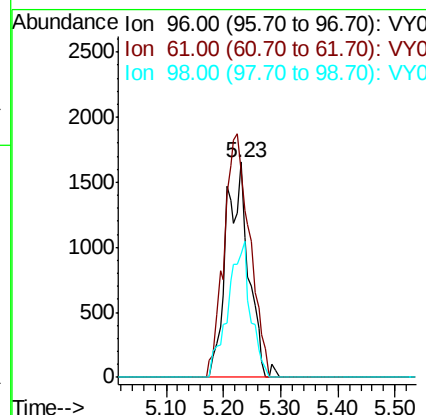
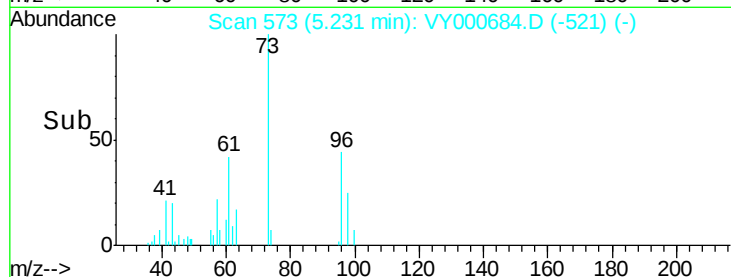
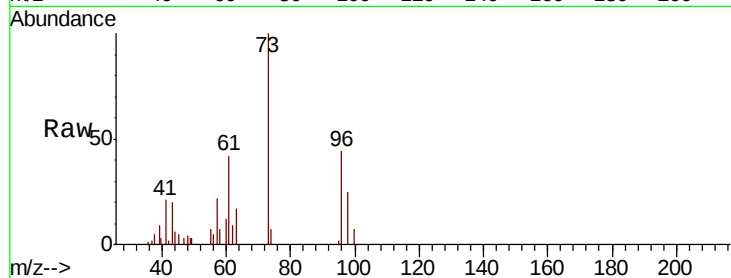
#17  
trans-1,2-Dichloroethene  
Concen: 2.288 ug/L m  
RT: 5.23 min Scan# 573  
Delta R.T. 0.02 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL5

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   | 4440 |       |       |
| 61      | 96.1  |      | 90.8  | 168.6 |
| 98      | 57.4  |      | 41.0  | 76.2  |

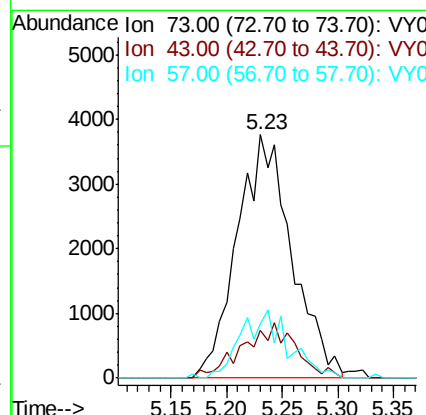
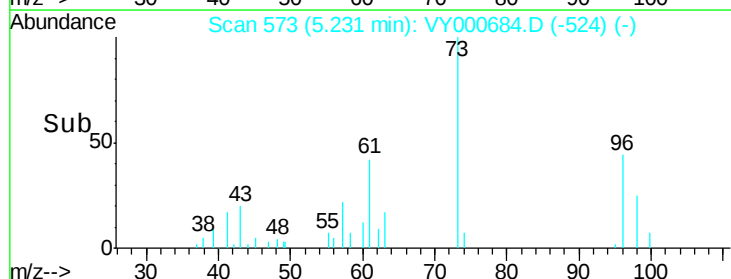
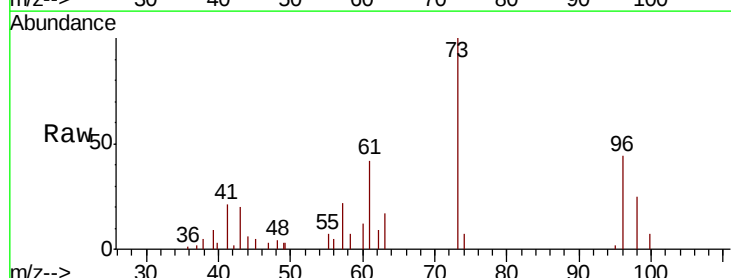
Manual Integrations  
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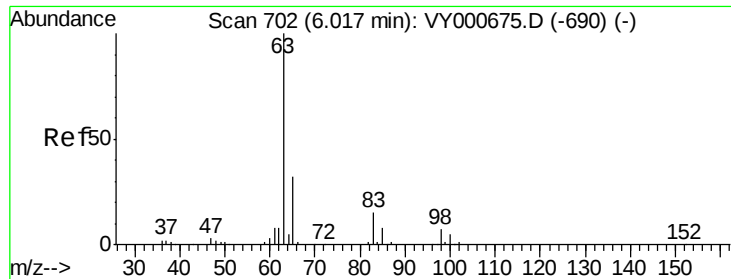
MMDadoda  
11/15/2019 3:05:16 PM



#18  
Methyl tert-butyl Ether  
Concen: 2.198 ug/L  
RT: 5.23 min Scan# 573  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 73      | 100   | 12836 |       |       |
| 43      | 2.8   |       | 15.5  | 23.3# |
| 57      | 10.5  |       | 17.7  | 26.5# |





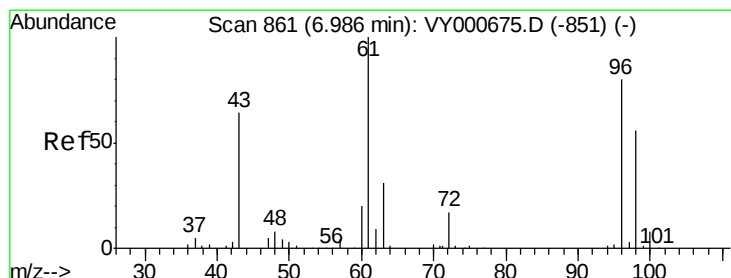
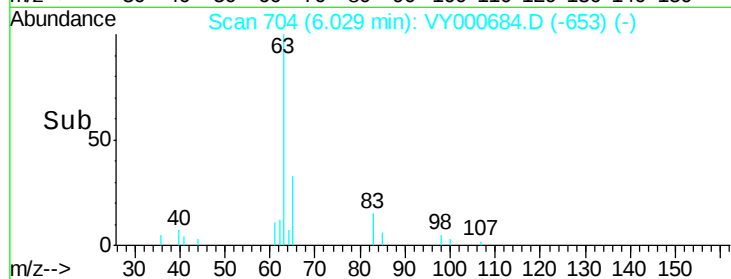
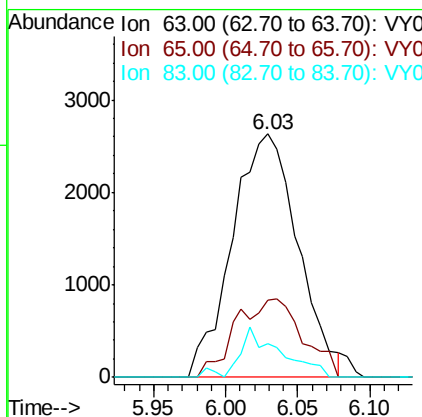
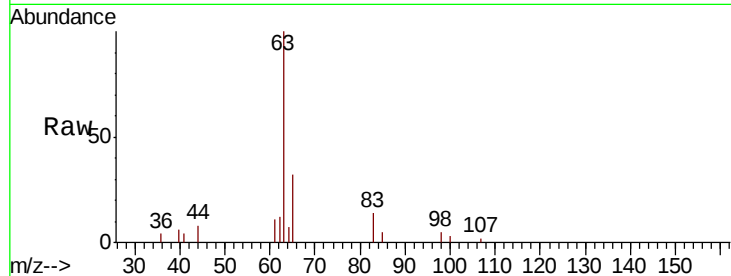
#19  
 1,1-Dichloroethane  
 Concen: 2.391 ug/L  
 RT: 6.03 min Scan# 704  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.6  | 22.7  | 42.1  |
| 83      | 14.1  | 10.5  | 19.5  |

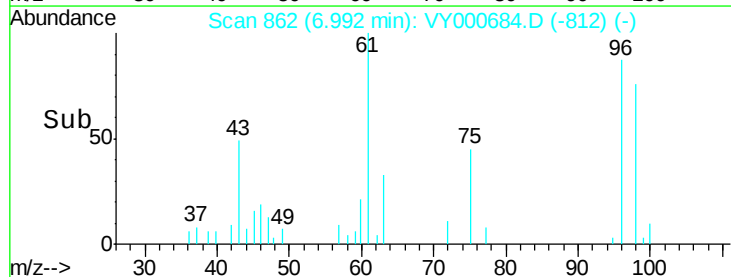
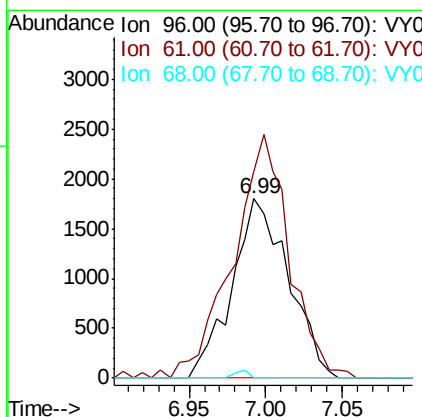
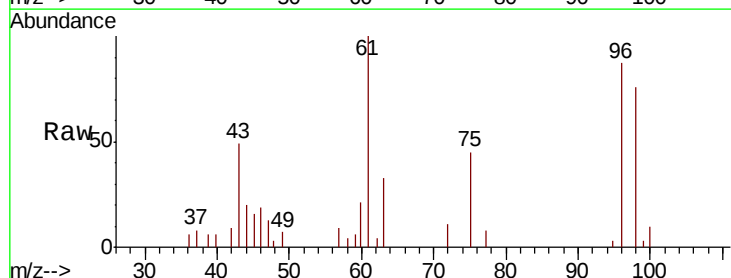
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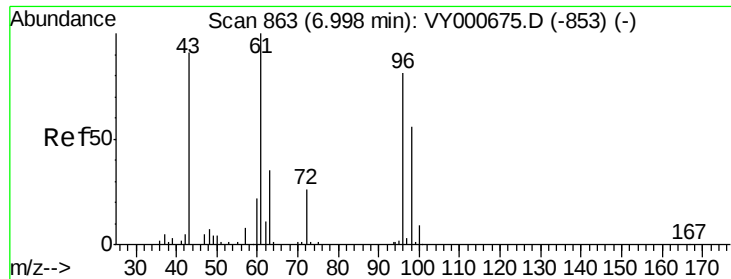
MMDadoda  
 11/15/2019 3:05:16 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.137 ug/L  
 RT: 6.99 min Scan# 862  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 115.1 | 87.2  | 162.0 |
| 68      | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 4.338 ug/L

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampled :

MDL5

Tot Ion: 43 Resp: 4508

Ion Ratio Lower Upper

43 100

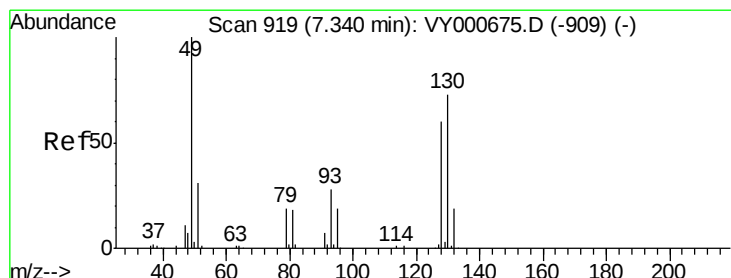
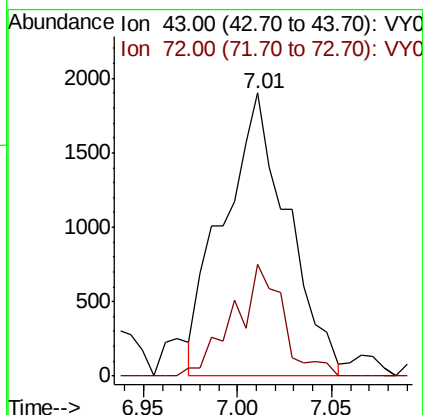
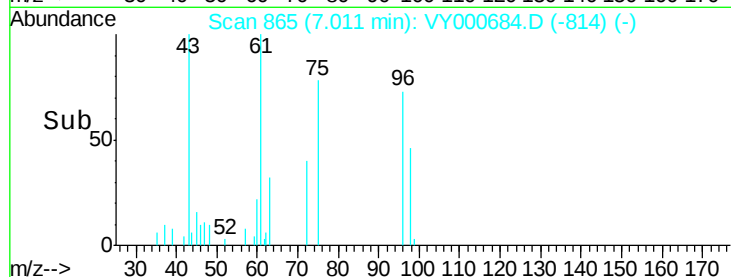
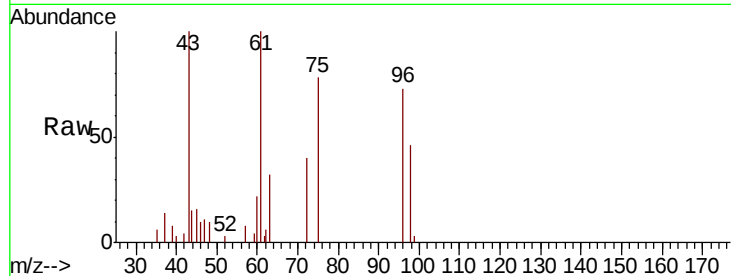
72 28.8 13.7 41.1

Manual Integrations

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MMDadoda

11/15/2019 3:05:16 PM



#23

Bromochloromethane

Concen: 2.567 ug/L

RT: 7.34 min Scan# 919

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Tgt Ion: 128 Resp: 2573

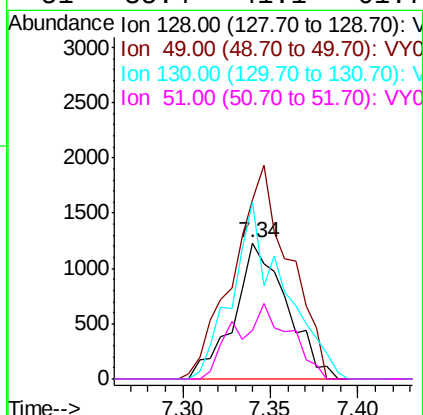
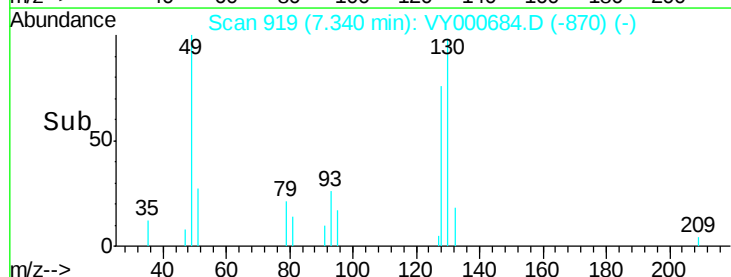
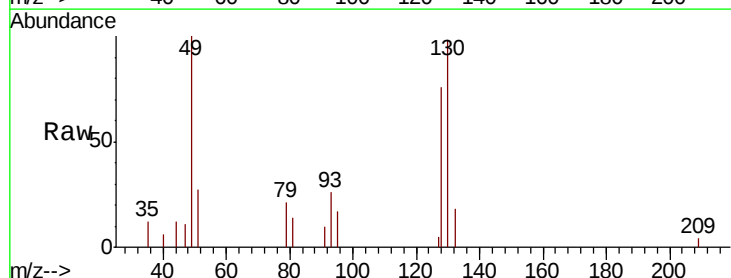
Ion Ratio Lower Upper

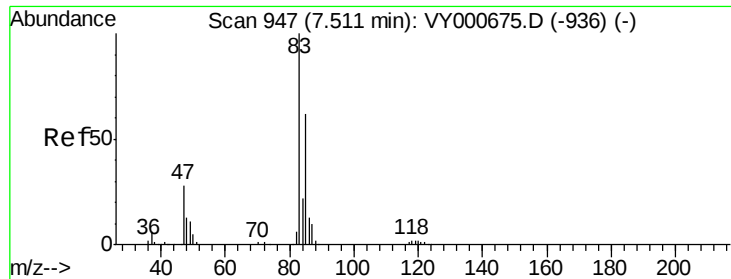
128 100

49 132.0 116.6 216.5

130 129.5 85.4 158.6

51 35.4 41.1 61.7#





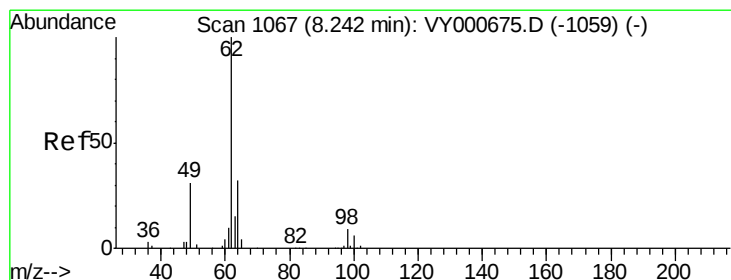
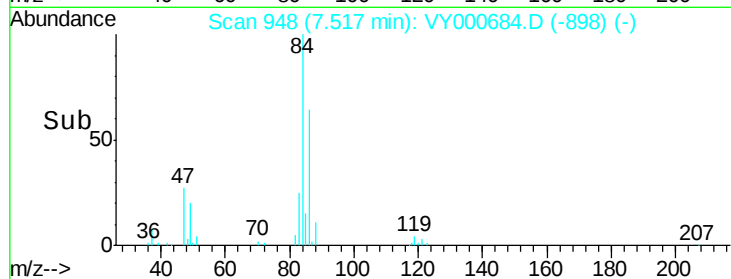
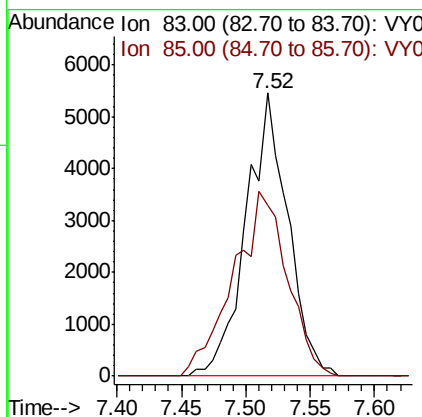
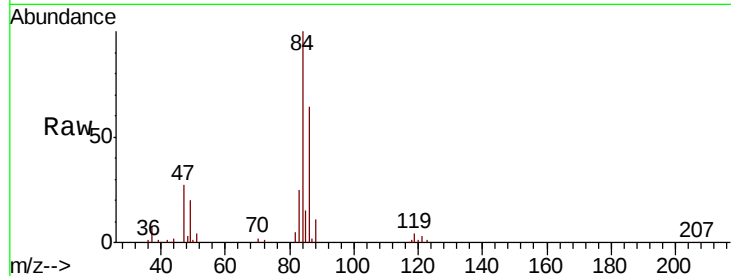
#25  
Chloroform  
Concen: 3.074 ug/L  
RT: 7.52 min Scan# 948  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

| Tot Ion | 83  | 85   | Resp | Lower | Upper |
|---------|-----|------|------|-------|-------|
| 12274   | 100 | 60.5 |      | 43.1  | 80.1  |

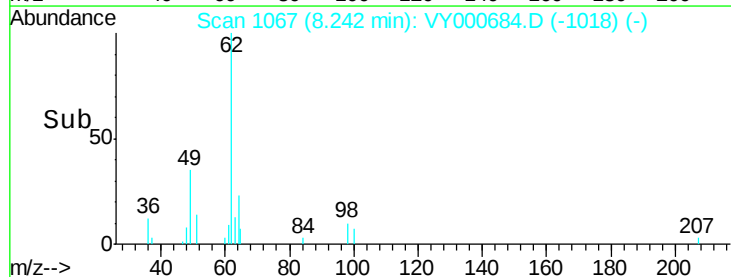
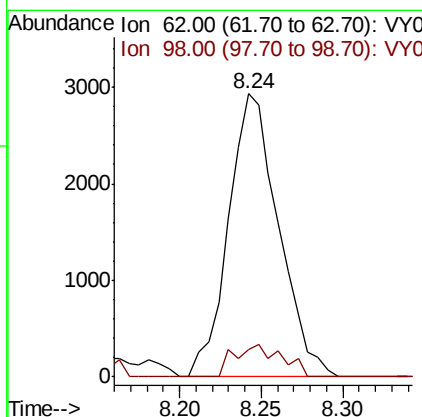
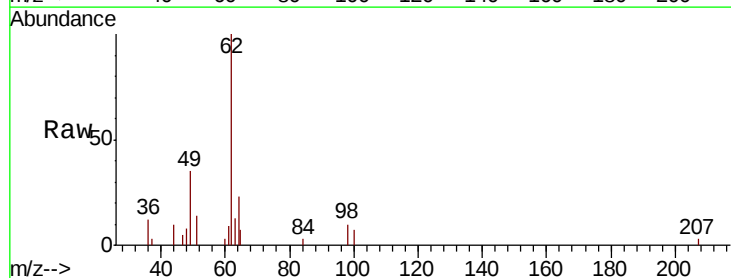
Manual Integrations  
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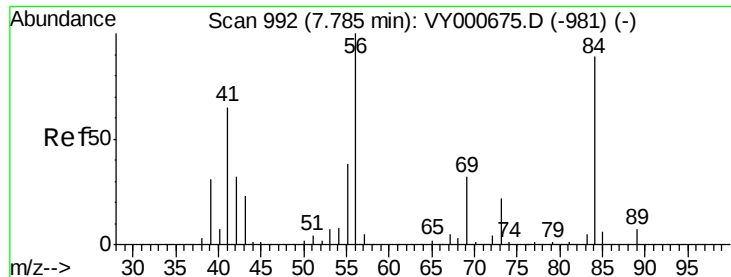
MMDadoda  
11/15/2019 3:05:16 PM



#27  
1,2-Dichloroethane  
Concen: 2.299 ug/L  
RT: 8.24 min Scan# 1067  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | 62  | 98  | Resp | Lower | Upper |
|---------|-----|-----|------|-------|-------|
| 6268    | 100 | 9.8 |      | 7.1   | 10.7  |





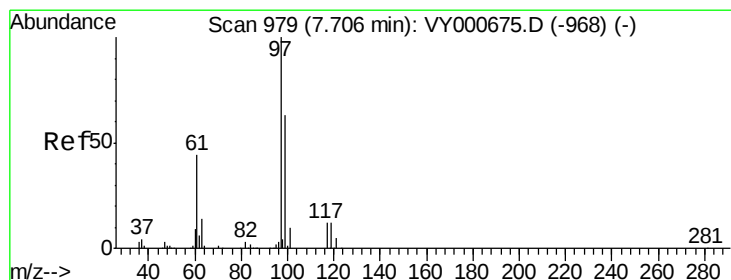
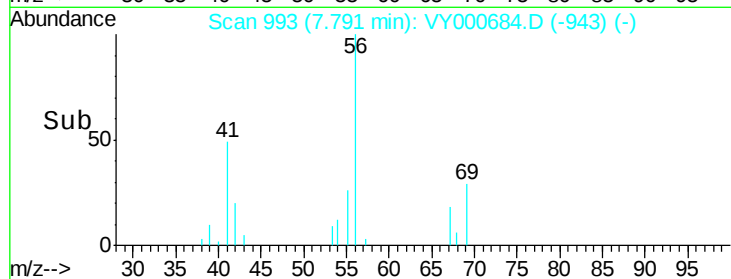
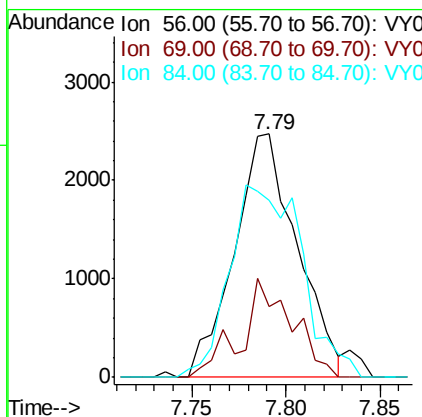
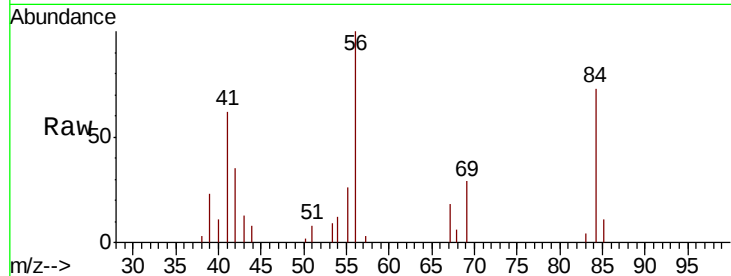
#29  
Cyclohexane  
Concen: 1.840 ug/L  
RT: 7.79 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 26.5  | 24.4  | 36.6   |
| 84      | 63.2  | 71.4  | 107.2# |

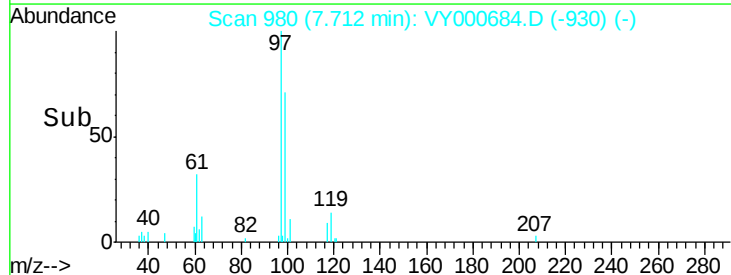
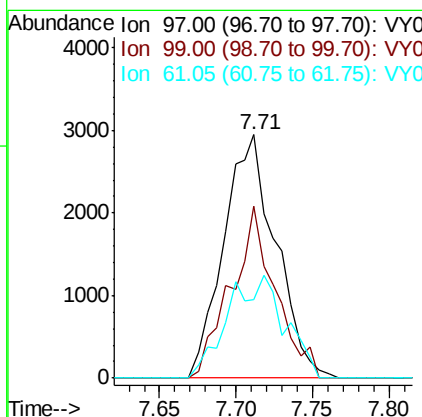
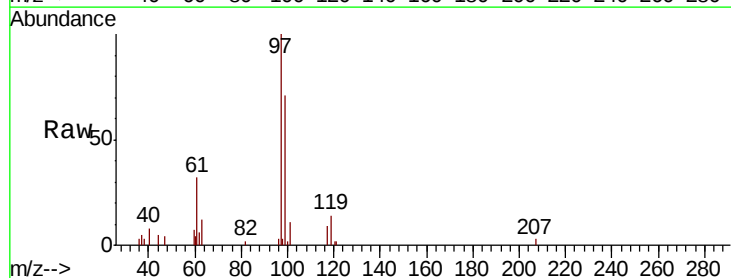
Manual Integrations  
APPROVED

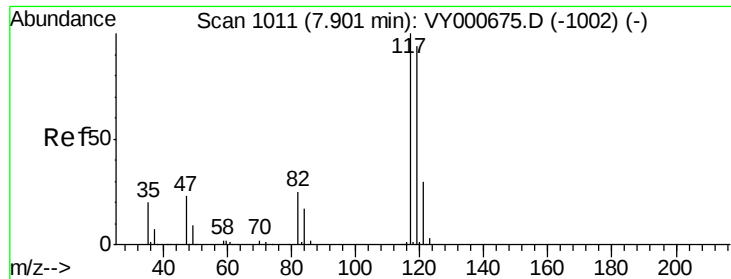
MMDadoda  
11/15/2019 3:05:16 PM



#30  
1,1,1-Trichloroethane  
Concen: 2.397 ug/L  
RT: 7.71 min Scan# 980  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 58.0  | 52.2  | 78.2  |
| 61      | 11.1  | 35.0  | 52.4# |





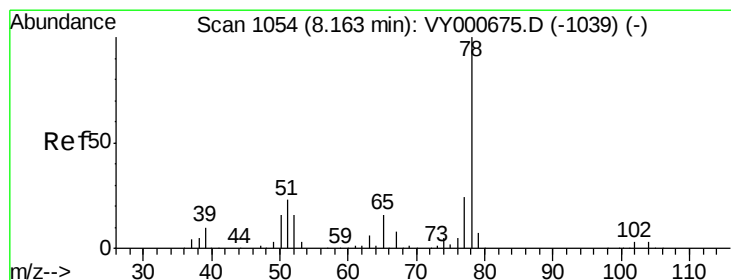
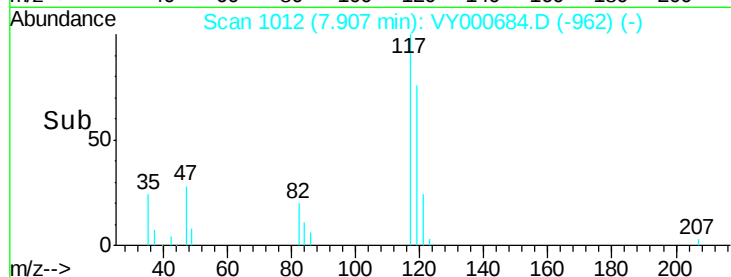
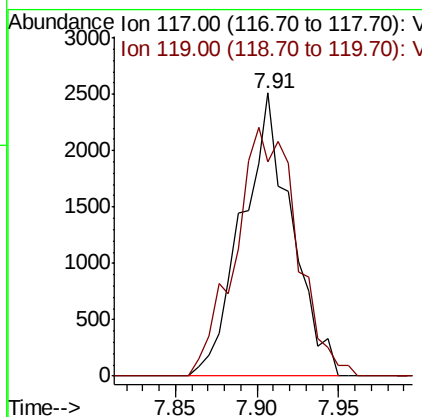
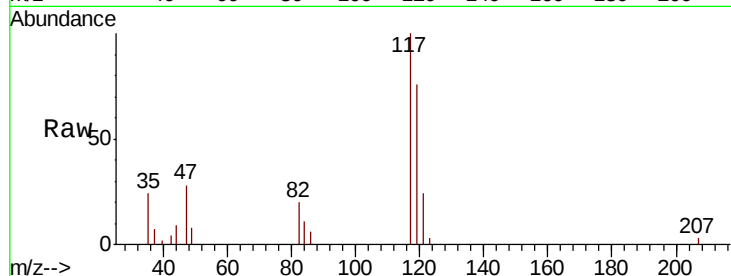
#31  
Carbon tetrachloride  
Concen: 2.041 ug/L  
RT: 7.91 min Scan# 1012  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

Tot Ion:117 Resp: 5311  
Ion Ratio Lower Upper  
117 100  
119 63.5 75.5 113.3#

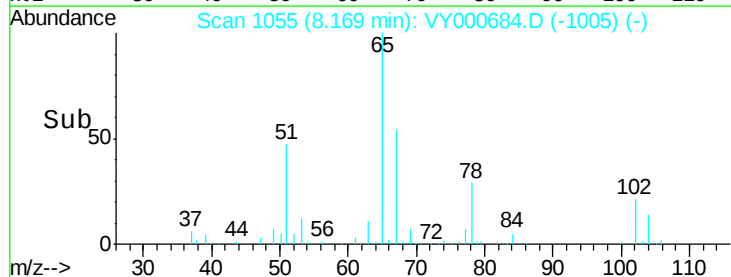
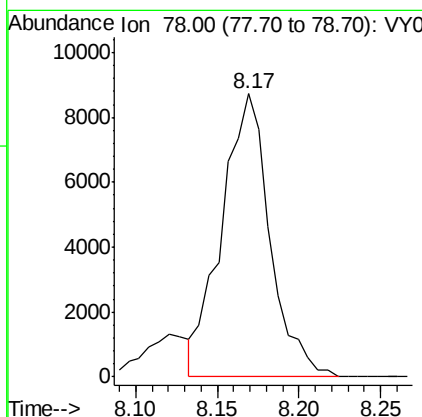
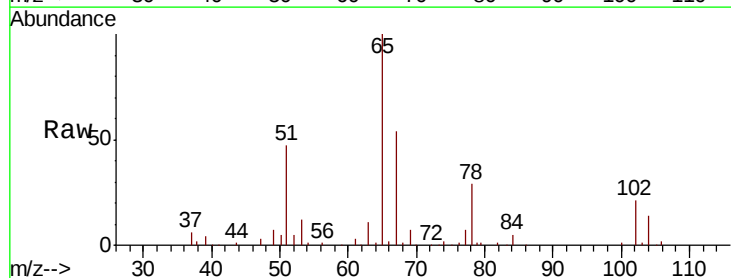
Manual Integrations  
APPROVED

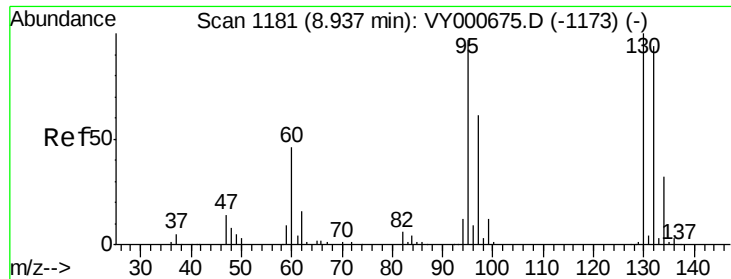
MMDadoda  
11/15/2019 3:05:16 PM



#33  
Benzene  
Concen: 2.270 ug/L  
RT: 8.17 min Scan# 1055  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Tgt Ion: 78 Resp: 17996





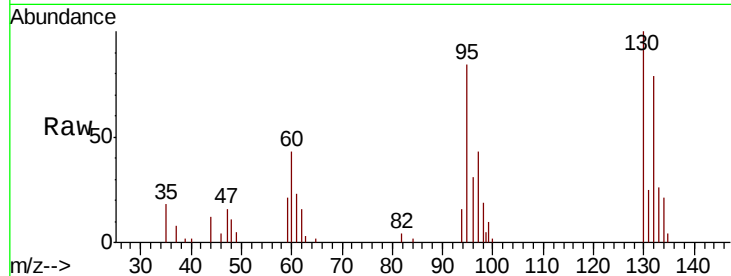
#34  
 Trichloroethene  
 Concen: 2.391 ug/L  
 RT: 8.94 min Scan# 1182  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

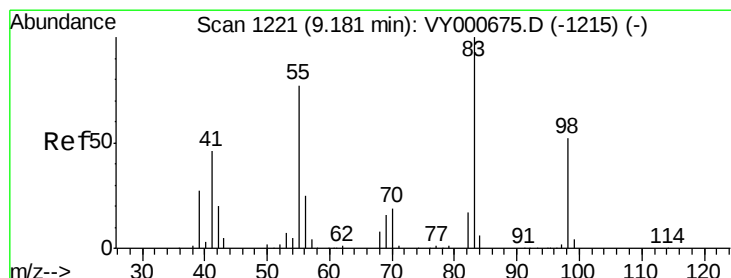
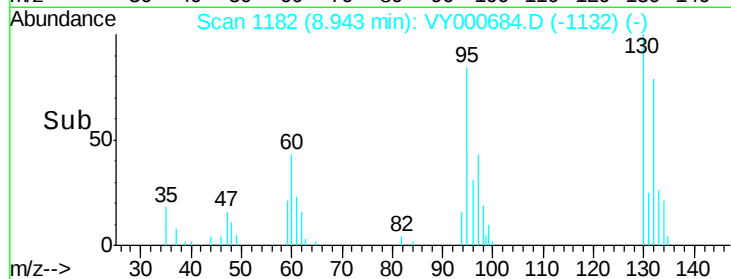
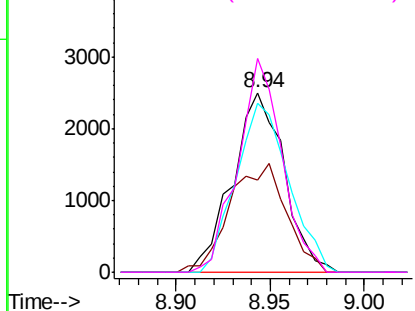
| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 95      | 100   |       |       |       |
| 97      | 51.3  | 43.8  | 81.3  |       |
| 132     | 93.8  | 67.8  | 126.0 |       |
| 130     | 118.8 | 71.9  | 133.5 |       |

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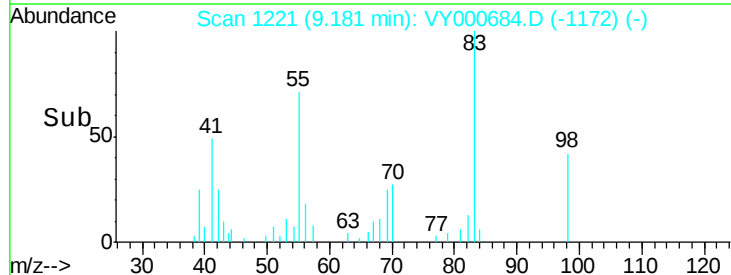
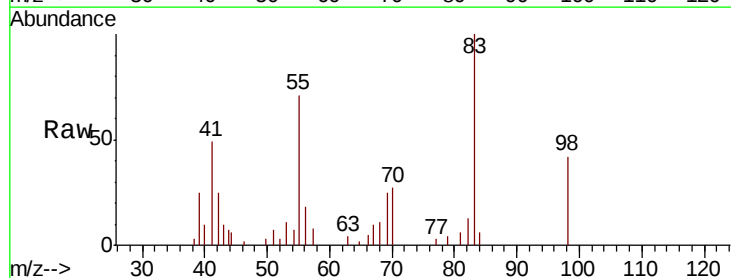
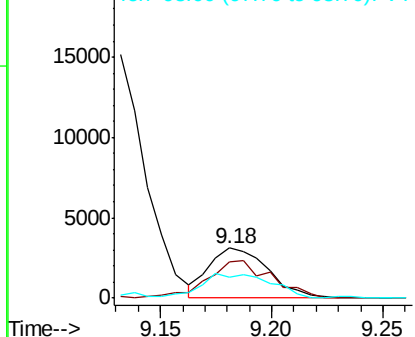
Abundance Ion 95.00 (94.70 to 95.70): VY0  
 Ion 97.00 (96.70 to 97.70): VY0  
 Ion 132.00 (131.70 to 132.70): VY0  
 Ion 130.00 (129.70 to 130.70): VY0

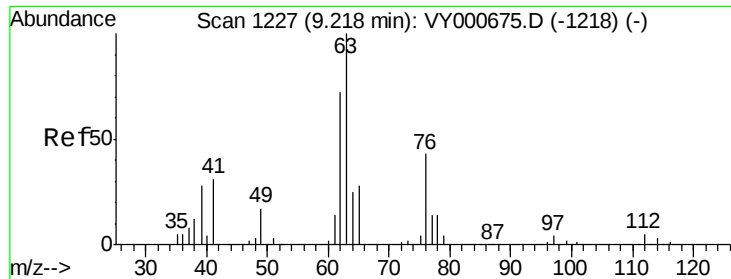


#35  
 Methylcyclohexane  
 Concen: 1.759 ug/L  
 RT: 9.18 min Scan# 1221  
 Delta R.T. 0.00 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 83      | 100  |       |       |       |
| 55      | 79.0 | 60.4  | 90.6  |       |
| 98      | 22.8 | 40.3  | 60.5# |       |

Abundance Ion 83.00 (82.70 to 83.70): VY0  
 Ion 55.00 (54.70 to 55.70): VY0  
 Ion 98.00 (97.70 to 98.70): VY0





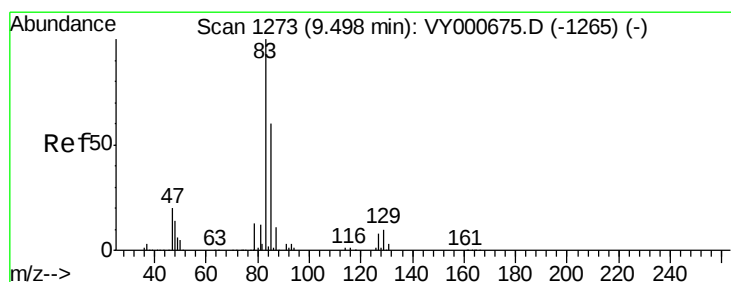
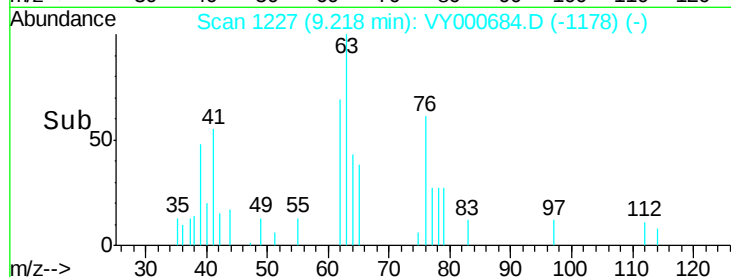
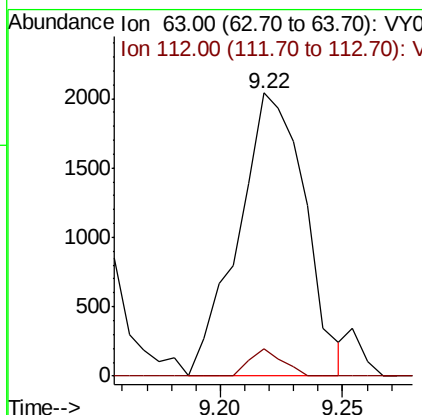
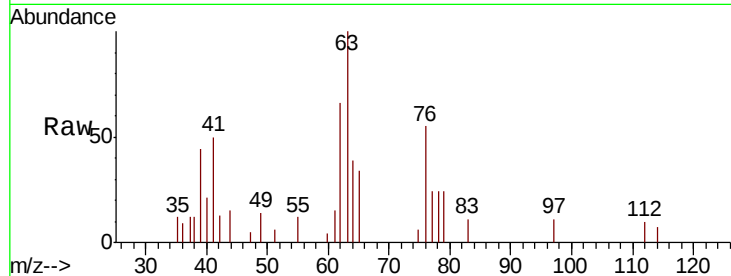
#37  
 1,2-Dichloropropane  
 Concen: 1.972 ug/L  
 RT: 9.22 min Scan# 1227  
 Delta R.T. 0.00 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 MDL5

Tot Ion: 63 Resp: 3878  
 Ion Ratio Lower Upper  
 63 100  
 112 4.8 3.8 5.6

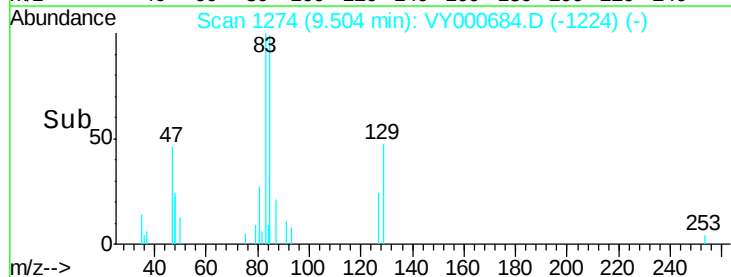
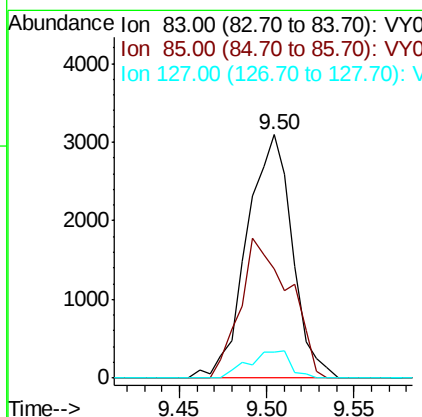
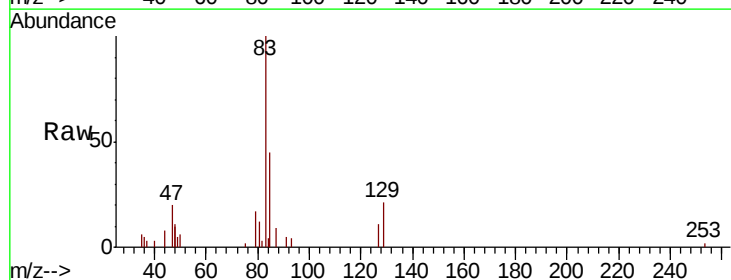
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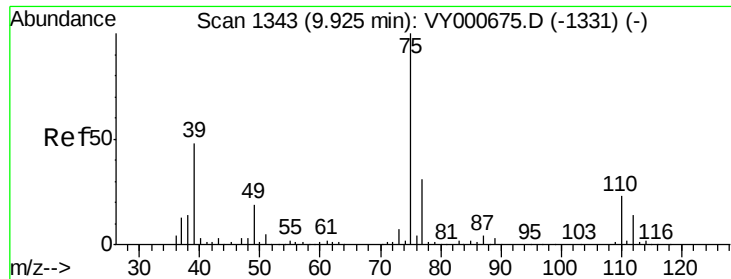
MMDadoda  
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#38  
 Bromodichloromethane  
 Concen: 2.128 ug/L  
 RT: 9.50 min Scan# 1274  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Tgt Ion: 83 Resp: 5621  
 Ion Ratio Lower Upper  
 83 100  
 85 44.6 42.2 78.4  
 127 10.8 6.4 9.6#





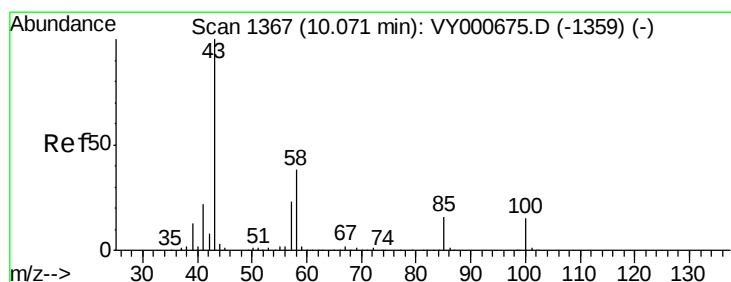
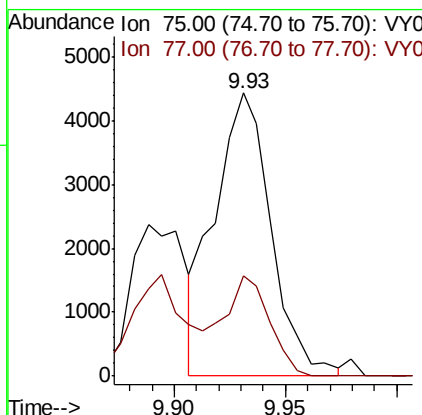
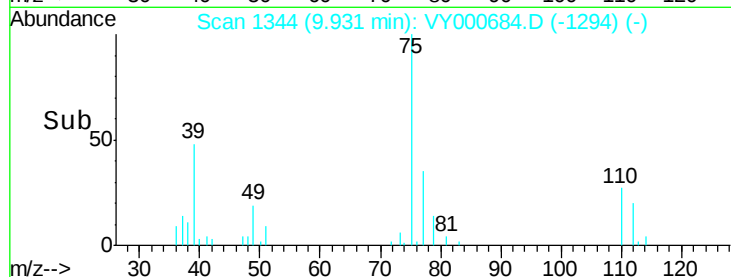
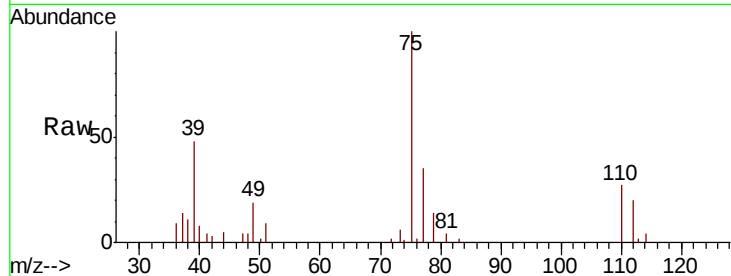
#39  
 cis-1,3-Dichloropropene  
 Concen: 2.334 ug/L  
 RT: 9.93 min Scan# 1344  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 MDL5

Tot Ion: 75 Resp: 7799  
 Ion Ratio Lower Upper  
 75 100  
 77 35.5 21.7 40.3

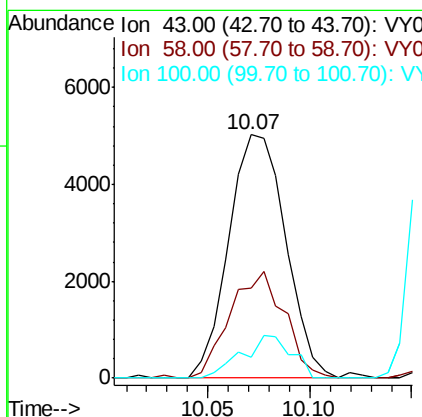
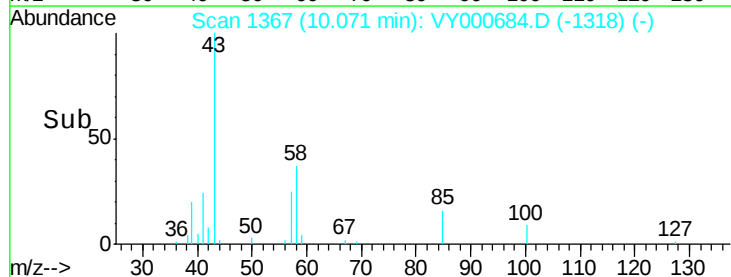
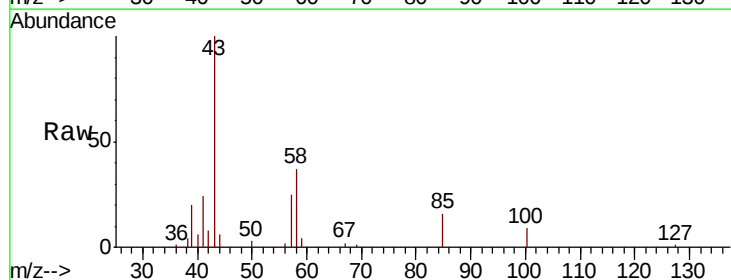
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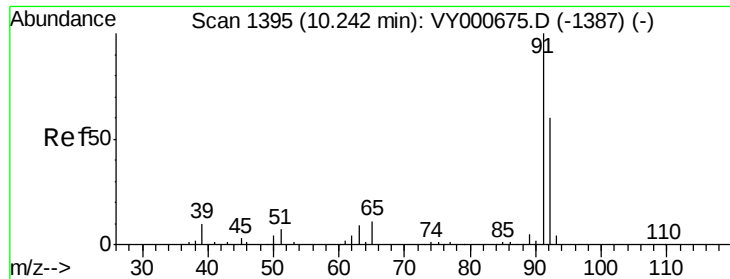
MMDadoda  
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#40  
 4-Methyl-2-pentanone  
 Concen: 4.318 ug/L  
 RT: 10.07 min Scan# 1367  
 Delta R.T. 0.00 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Tgt Ion: 43 Resp: 9740  
 Ion Ratio Lower Upper  
 43 100  
 58 41.6 30.2 45.2  
 100 15.3 12.2 18.2





#42

Toluene

Concen: 2.197 ug/L

RT: 10.24 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampleId :

MDL5

Tot Ion: 91 Resp: 18438

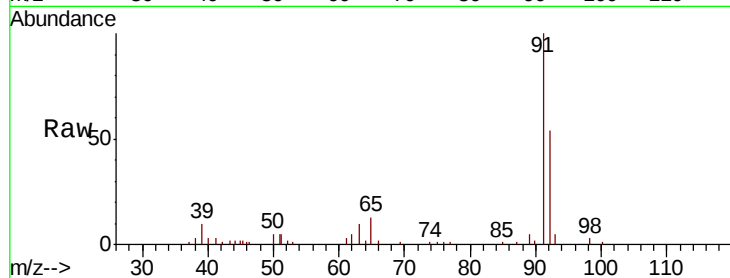
Ion Ratio Lower Upper

91 100

92 54.3 42.2 78.4

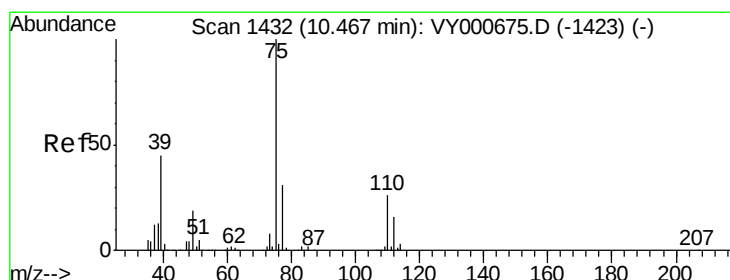
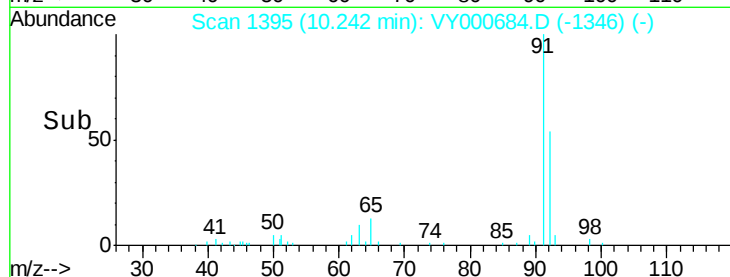
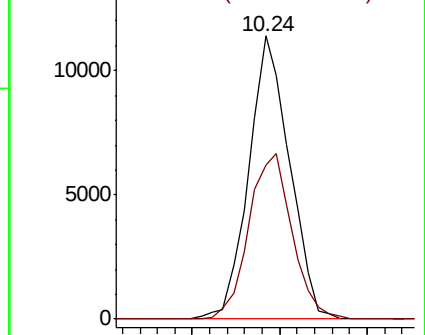
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Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0



#44

trans-1,3-Dichloropropene

Concen: 2.357 ug/L

RT: 10.46 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VY000684.D

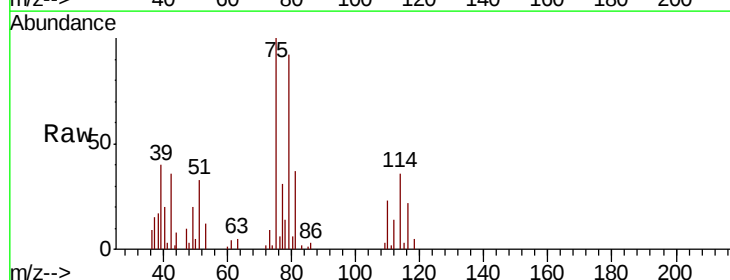
Acq: 14 Nov 2019 20:27

Tgt Ion: 75 Resp: 6895

Ion Ratio Lower Upper

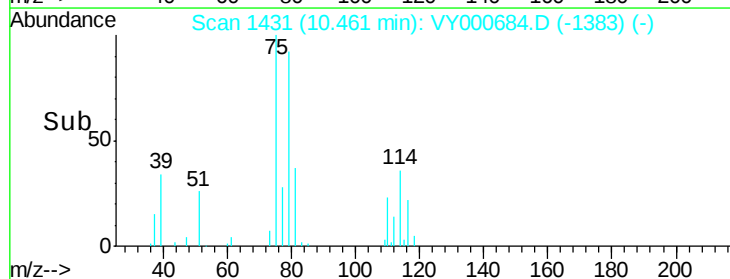
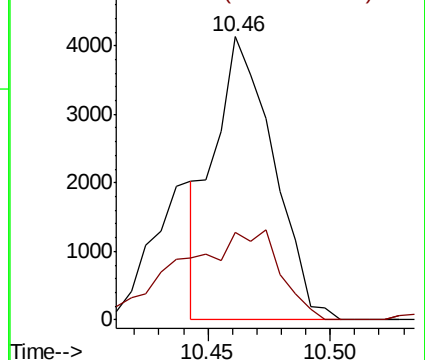
75 100

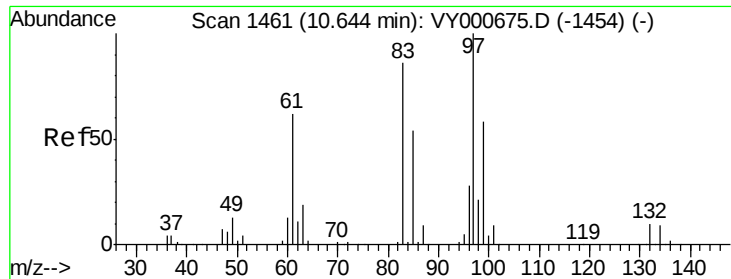
77 31.0 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0





#45

1,1,2-Trichloroethane

Concen: 2.246 ug/L

RT: 10.64 min Scan# 1461

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampled :

MDL5

Tot Ion: 97 Resp: 4191

Ion Ratio Lower Upper

97 100

99 62.4 40.6 75.4

83 101.8 60.0 111.4

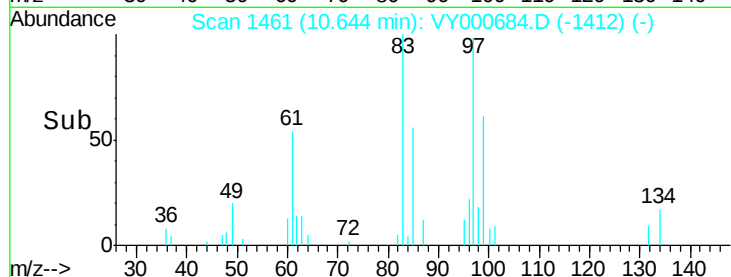
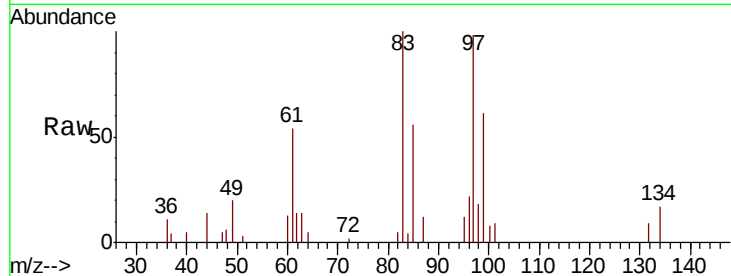
85 57.1 37.9 70.5

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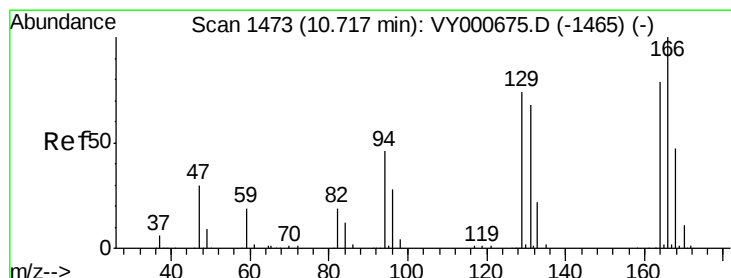
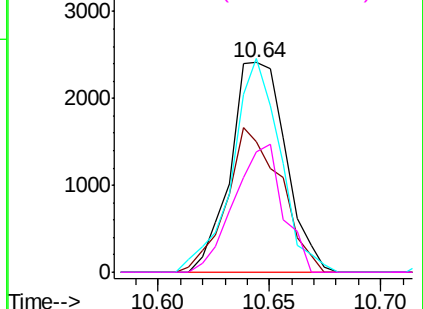


Abundance Ion 97.00 (96.70 to 97.70): VY0

Ion 99.00 (98.70 to 99.70): VY0

Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0



#46

Tetrachloroethene

Concen: 1.850 ug/L

RT: 10.72 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Tgt Ion: 164 Resp: 2849

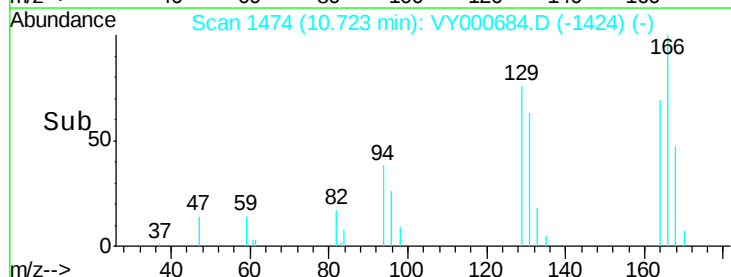
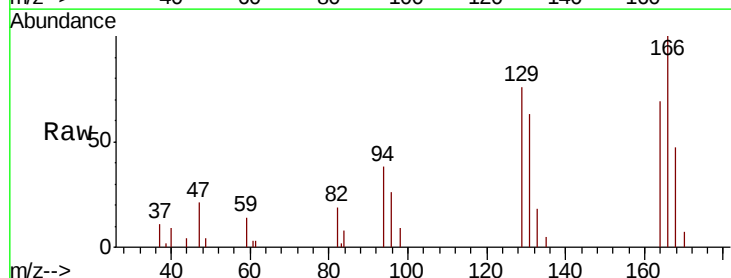
Ion Ratio Lower Upper

164 100

129 110.9 65.5 121.7

131 91.4 60.1 111.7

166 145.4 88.1 163.7

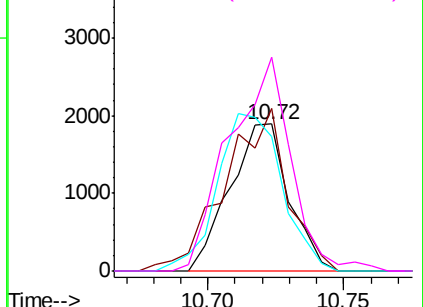


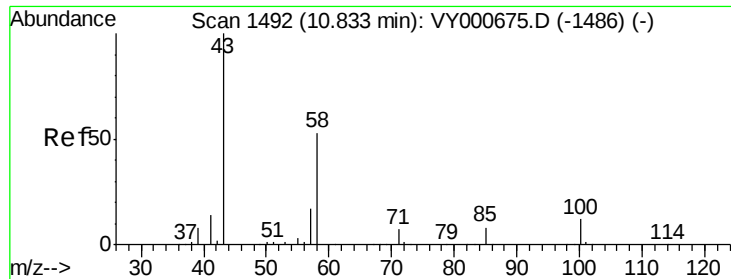
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 5.468 ug/L

RT: 10.83 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

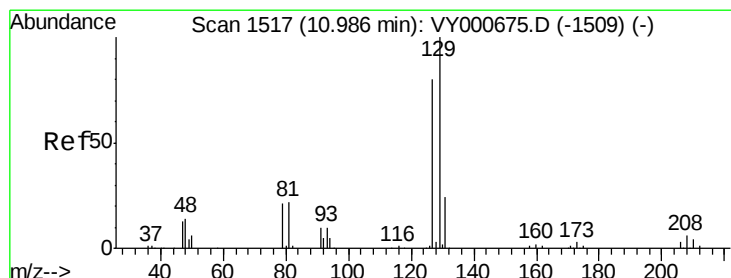
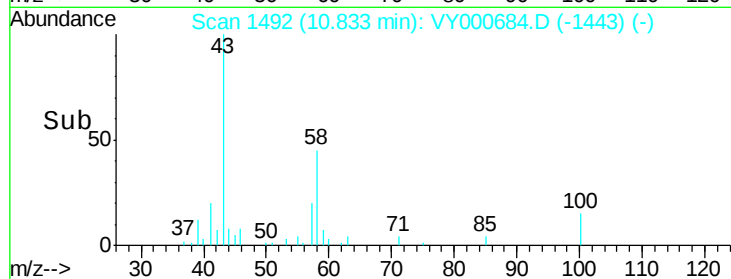
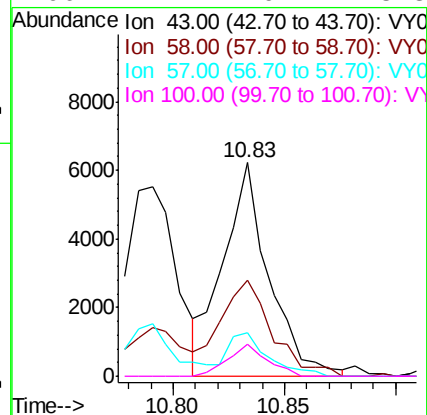
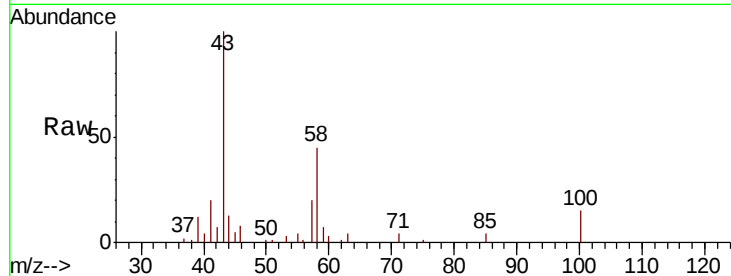
ClientSampleId :

MDL5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 8906  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 50.0  | 42.3  | 63.5  |
| 57       | 17.0  | 13.8  | 20.6  |
| 100      | 12.7  | 9.2   | 13.8  |

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#49

Dibromochloromethane

Concen: 2.199 ug/L

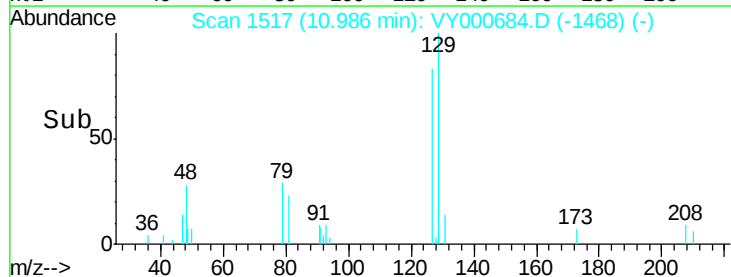
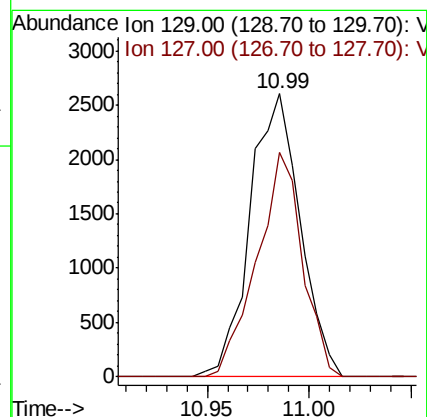
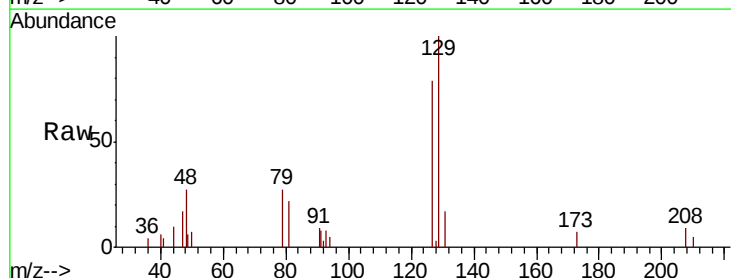
RT: 10.99 min Scan# 1517

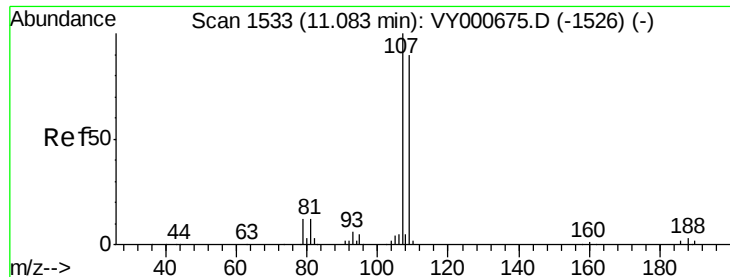
Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 4444  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 79.1  | 55.9  | 103.7 |





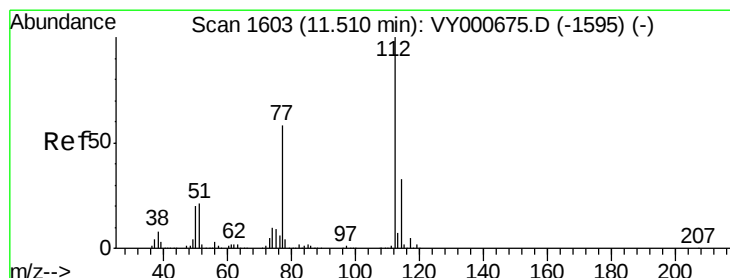
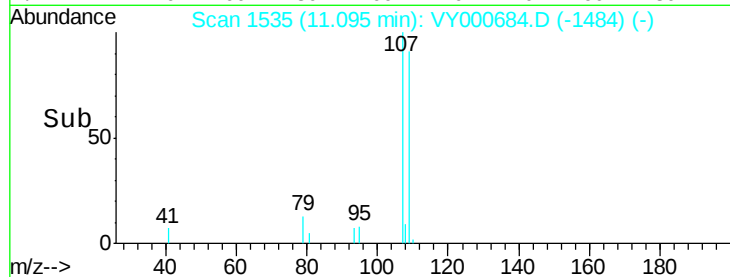
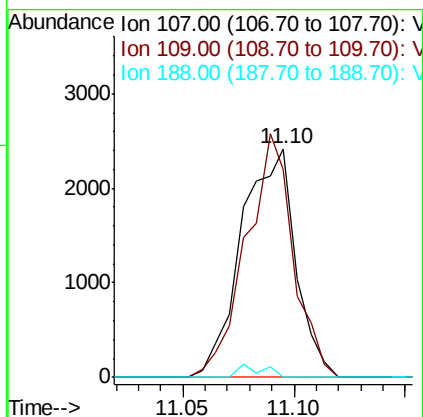
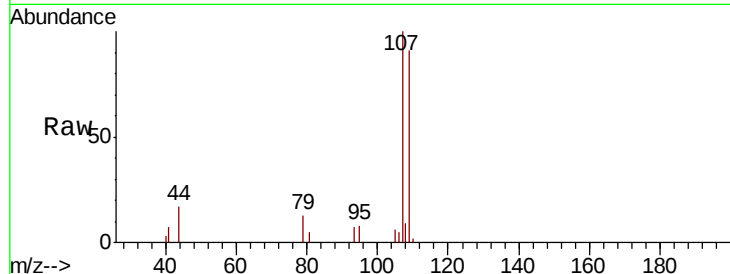
#50  
 1,2-Dibromoethane  
 Concen: 2.188 ug/L  
 RT: 11.10 min Scan# 1535  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 91.2  | 62.9  | 116.9 |
| 188     | 0.0   | 2.4   | 3.6#  |

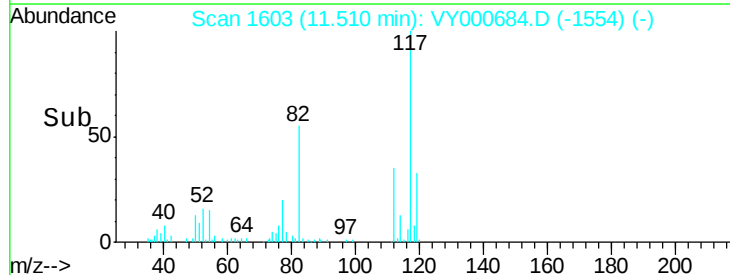
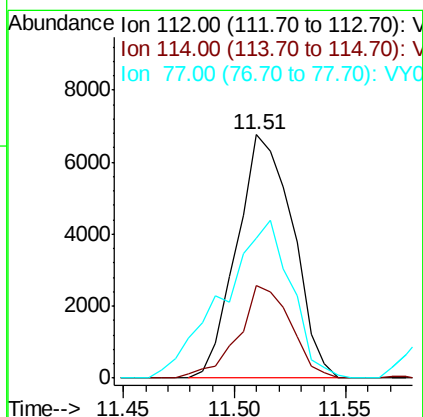
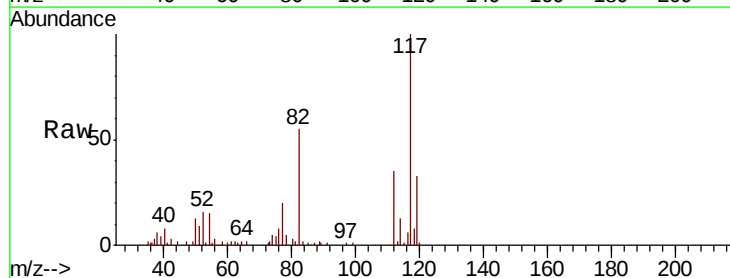
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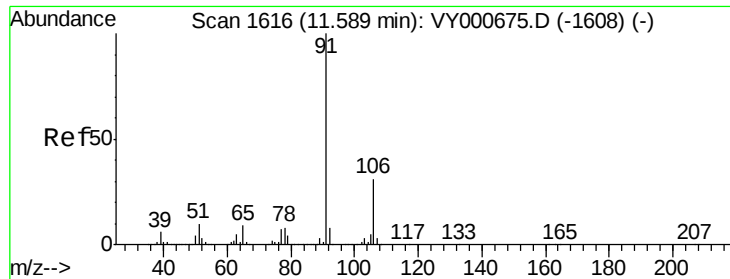
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#51  
 Chlorobenzene  
 Concen: 2.184 ug/L  
 RT: 11.51 min Scan# 1603  
 Delta R.T. 0.00 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 37.9  | 23.3  | 43.3  |
| 77      | 57.3  | 46.5  | 69.7  |





#52

Ethylbenzene

Concen: 2.043 ug/L

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampleId :

MDL5

Tot Ion: 91 Resp: 19567

Ion Ratio Lower Upper

91 100

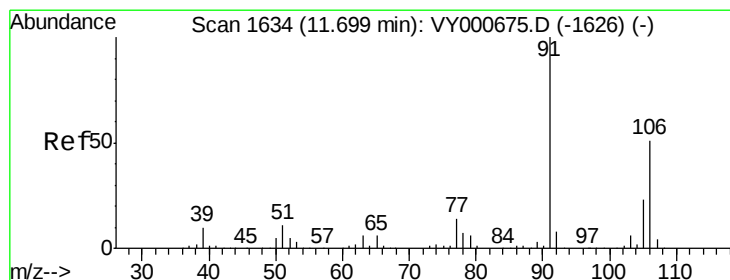
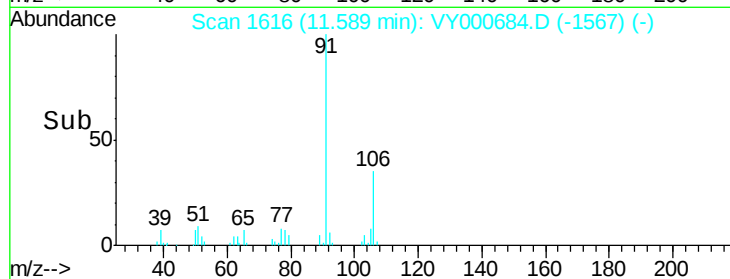
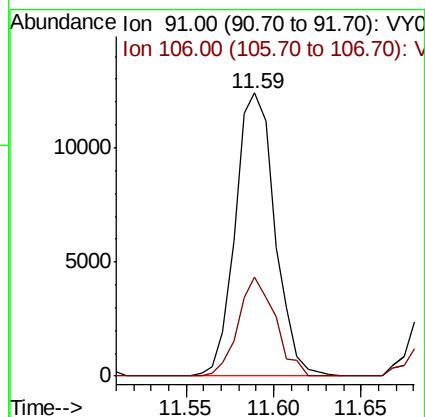
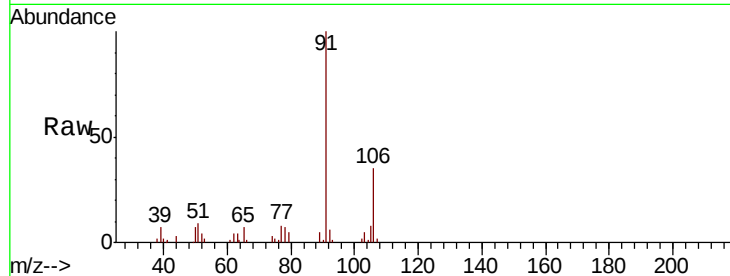
106 35.0 21.8 40.6

Manual Integrations

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#53

m,p-Xylene

Concen: 2.119 ug/L

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY000684.D

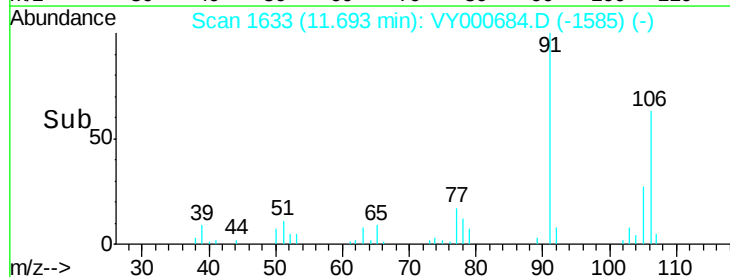
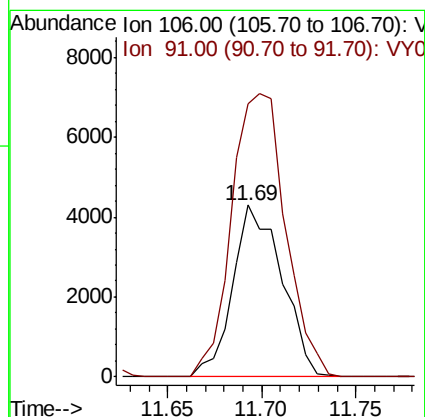
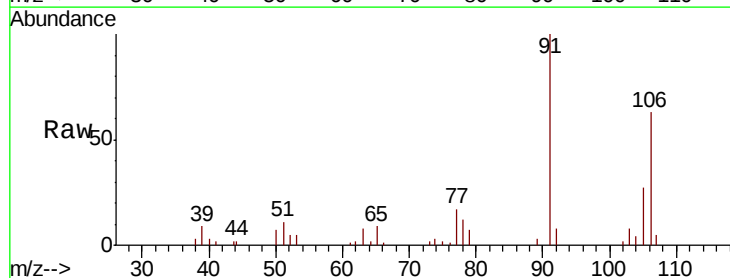
Acq: 14 Nov 2019 20:27

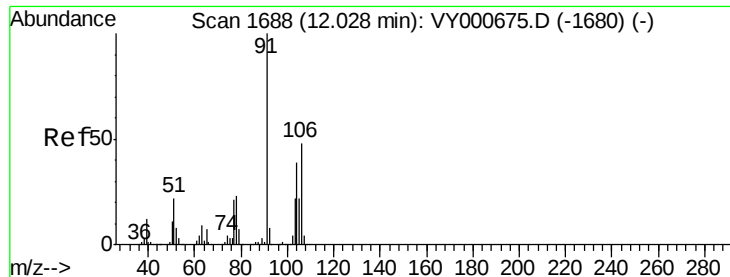
Tgt Ion: 106 Resp: 7803

Ion Ratio Lower Upper

106 100

91 159.4 137.6 255.6





#54

o-xylene

Concen: 2.030 ug/L

RT: 12.02 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

ClientSampled :

MDL5

Tot Ion:106 Resp: 7331

Ion Ratio Lower Upper

106 100

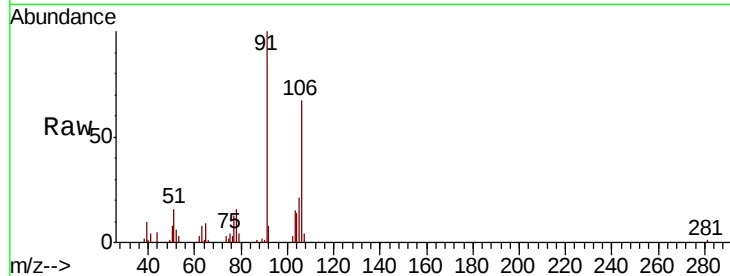
91 149.5 145.9 270.9

Manual Integrations

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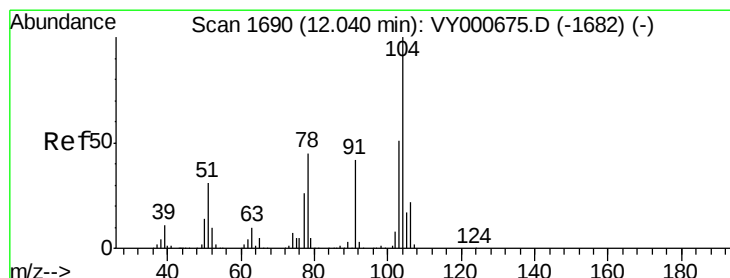
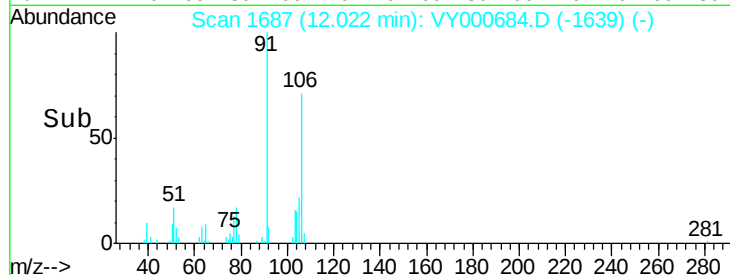
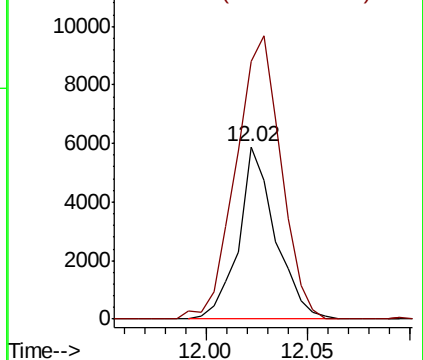
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

Styrene

Concen: 1.885 ug/L

RT: 12.04 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VY000684.D

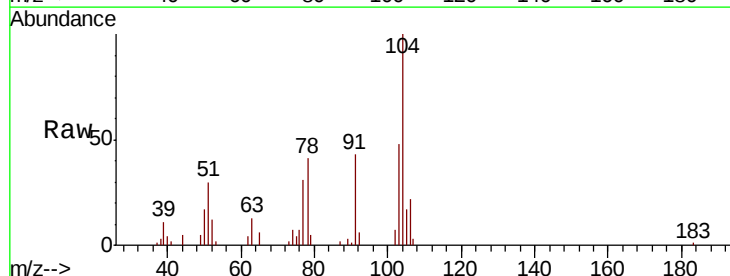
Acq: 14 Nov 2019 20:27

Tgt Ion:104 Resp: 11568

Ion Ratio Lower Upper

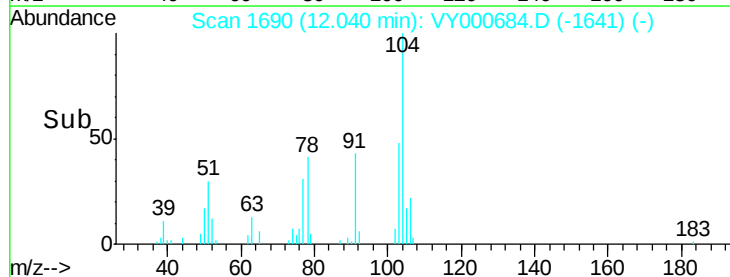
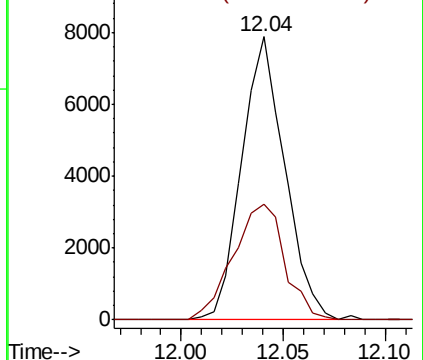
104 100

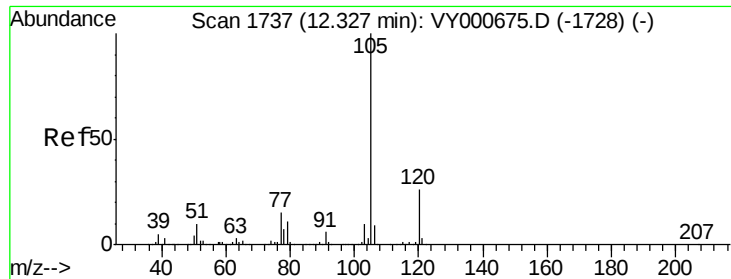
78 40.8 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0





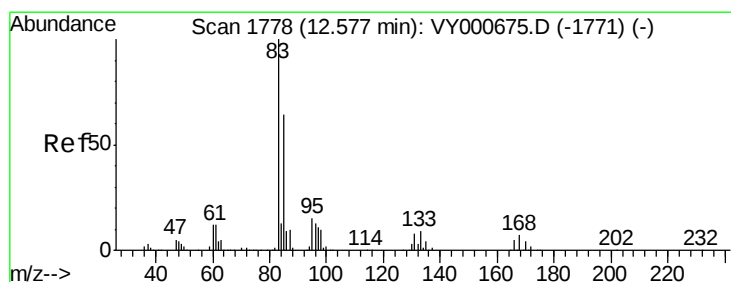
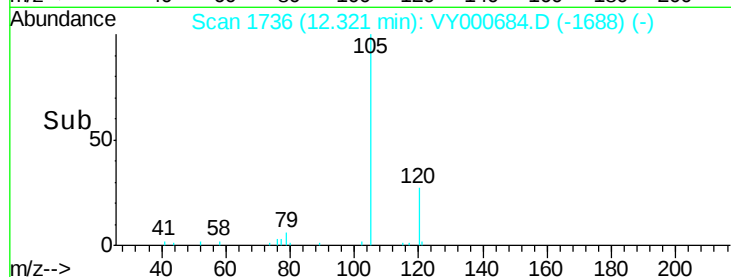
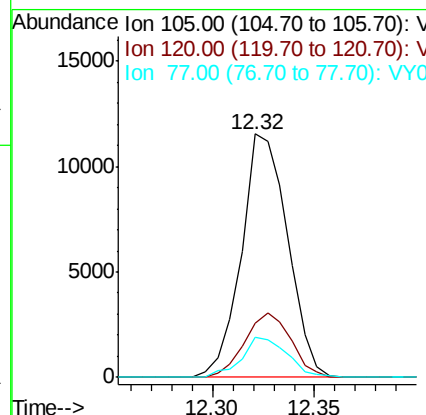
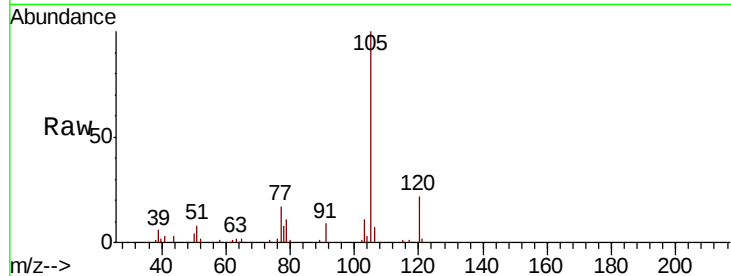
#56  
Isopropylbenzene  
Concen: 1.968 ug/L  
RT: 12.32 min Scan# 1736  
Delta R.T. -0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL5

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 105     | 100   | 18191 |       |       |
| 120     | 26.5  | 21.4  | 32.2  |       |
| 77      | 16.5  | 12.9  | 19.3  |       |

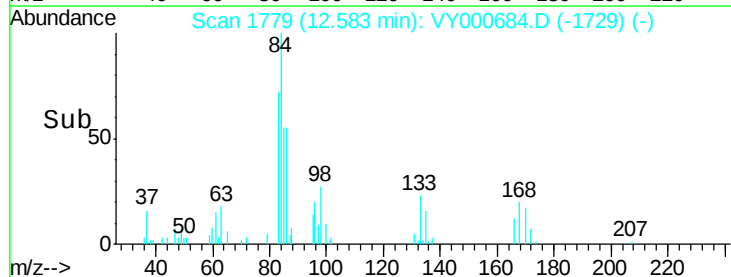
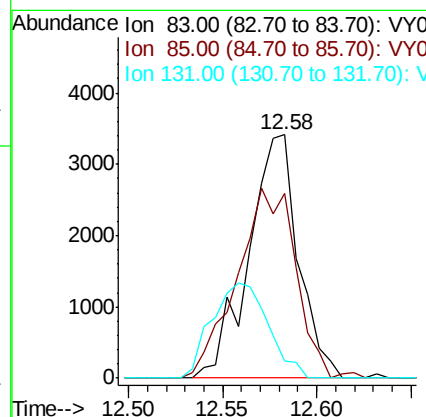
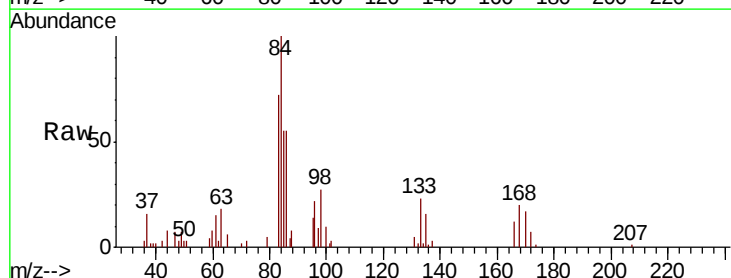
Manual Integrations  
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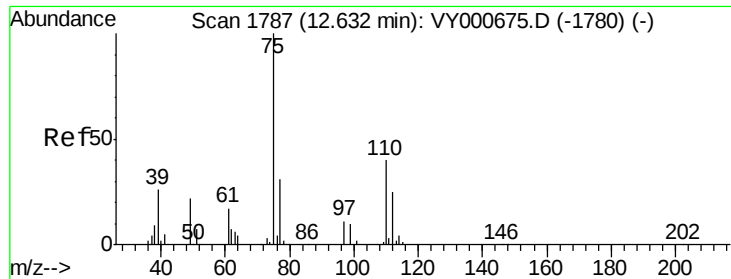
MMDadoda  
11/15/2019 3:05:16 PM



#58  
1,1,2,2-Tetrachloroethane  
Concen: 2.366 ug/L  
RT: 12.58 min Scan# 1779  
Delta R.T. 0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   | 6243 |       |       |
| 85      | 75.8  | 45.0 | 83.6  |       |
| 131     | 6.9   | 6.6  | 9.8   |       |





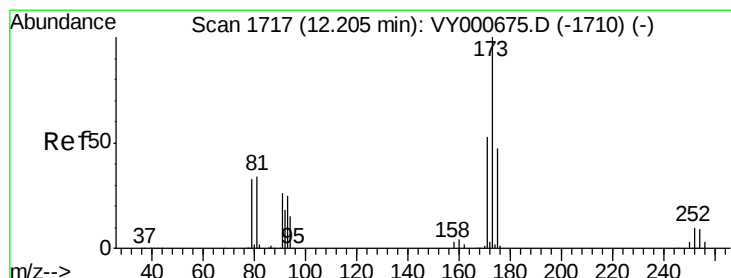
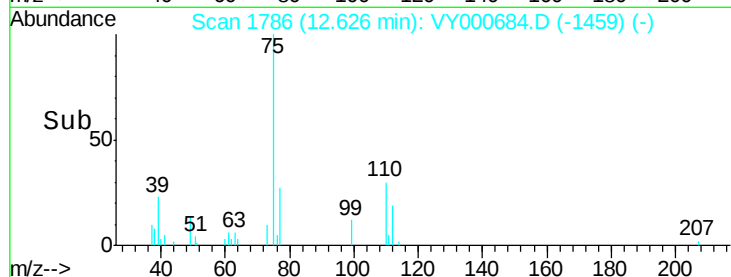
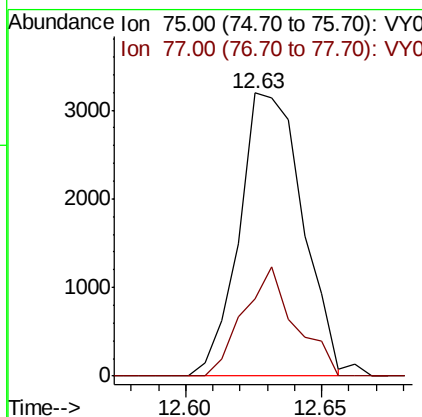
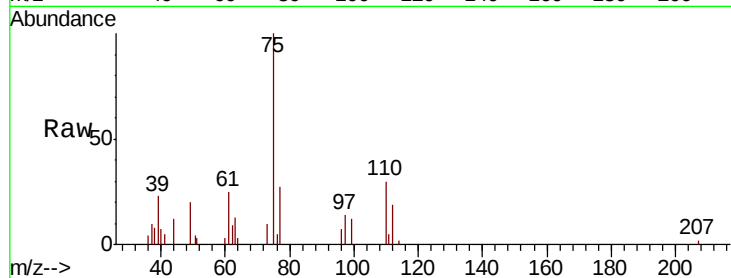
#59  
 1,2,3-Trichloropropane  
 Concen: 2.465 ug/L  
 RT: 12.63 min Scan# 1786  
 Delta R.T. -0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 MDL5

Tot Ion: 75 Resp: 5148  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 25.5 38.3

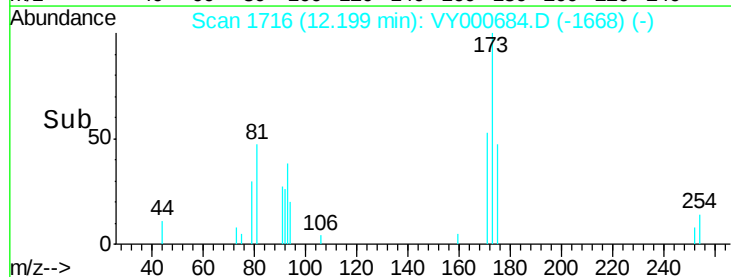
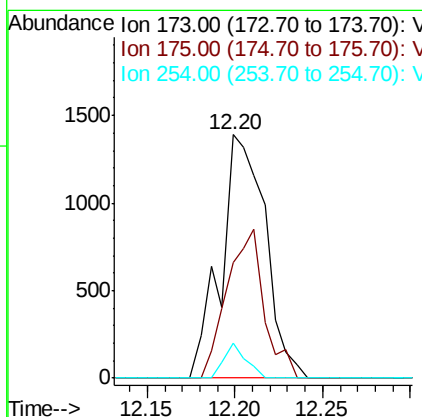
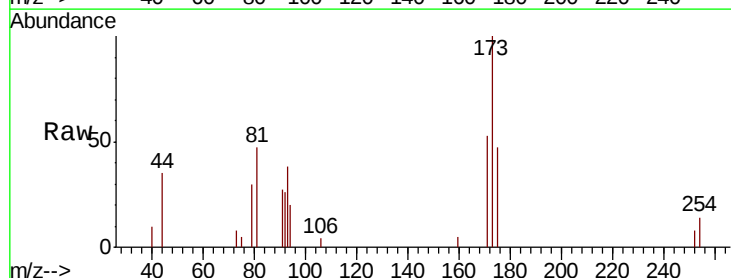
Manual Integrations  
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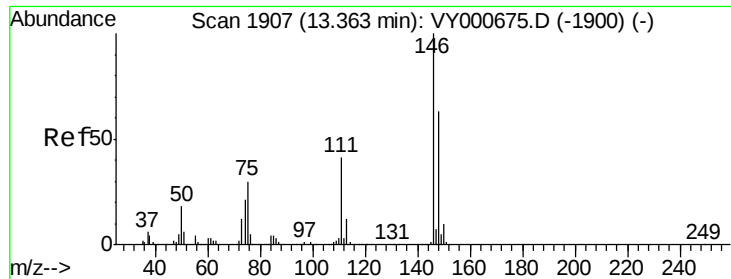
MMDadoda  
 11/15/2019 3:05:16 PM



#61  
 Bromoform  
 Concen: 1.982 ug/L m  
 RT: 12.20 min Scan# 1716  
 Delta R.T. -0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Tgt Ion: 173 Resp: 2445  
 Ion Ratio Lower Upper  
 173 100  
 175 51.0 36.6 55.0  
 254 7.0 7.4 11.2#





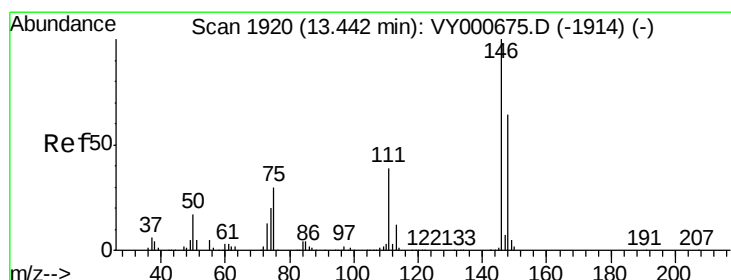
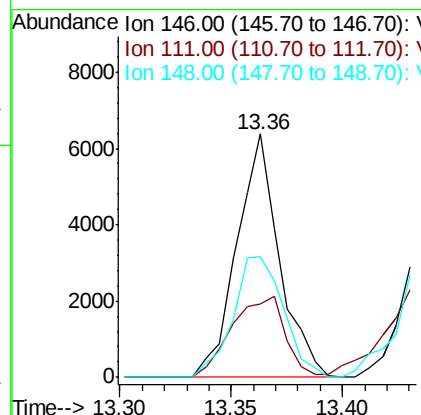
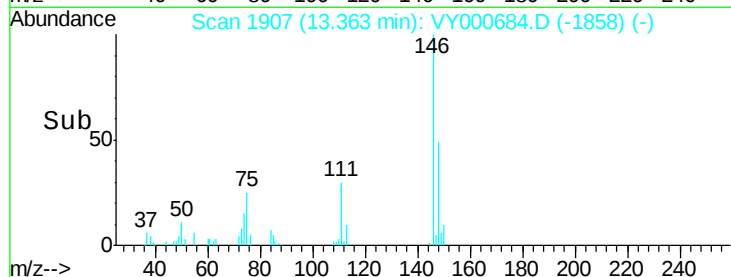
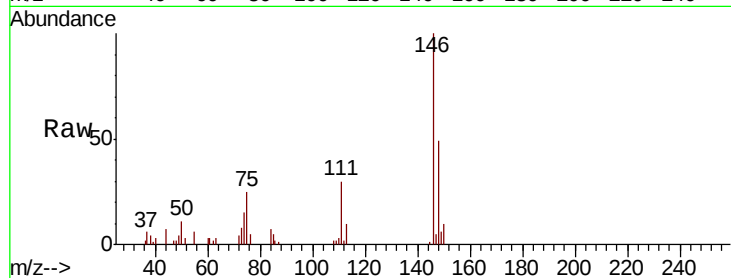
#62  
1,3-Dichlorobenzene  
Concen: 2.216 ug/L  
RT: 13.36 min Scan# 1907  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampled :  
MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 30.3  | 28.4  | 52.8  |
| 148     | 49.3  | 44.1  | 81.9  |

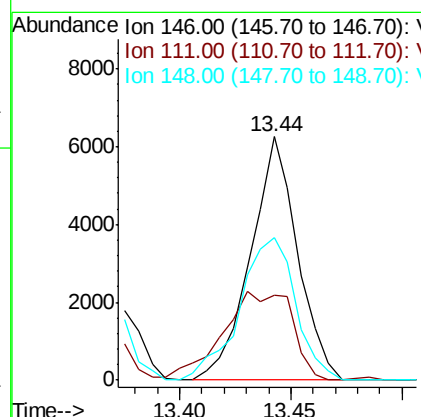
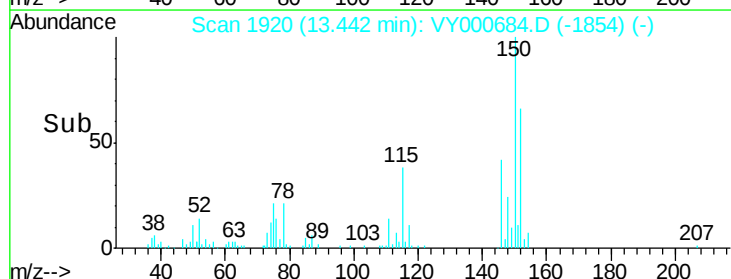
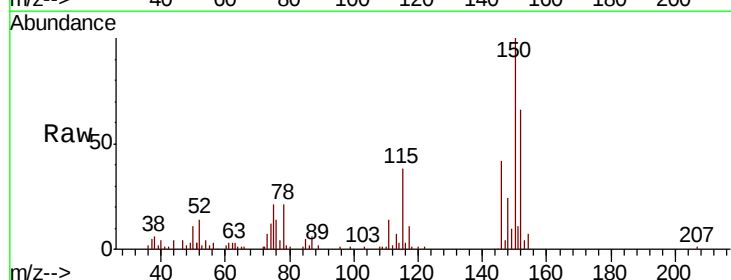
Manual Integrations  
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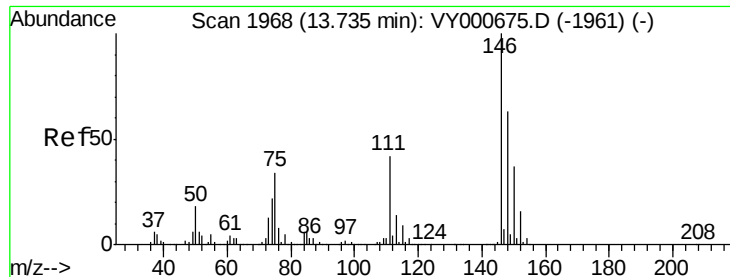
MMDadoda  
11/15/2019 3:05:16 PM



#63  
1,4-Dichlorobenzene  
Concen: 2.342 ug/L  
RT: 13.44 min Scan# 1920  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 34.9  | 27.4  | 51.0  |
| 148     | 58.7  | 45.2  | 84.0  |





#65

1,2-Dichlorobenzene

Concen: 2.316 ug/L

RT: 13.74 min Scan# 1968

Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

Instrument :

MSVOA\_Y

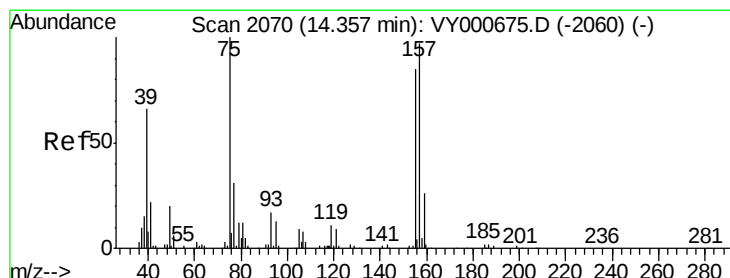
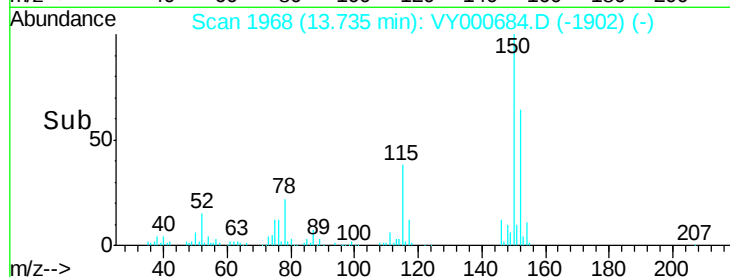
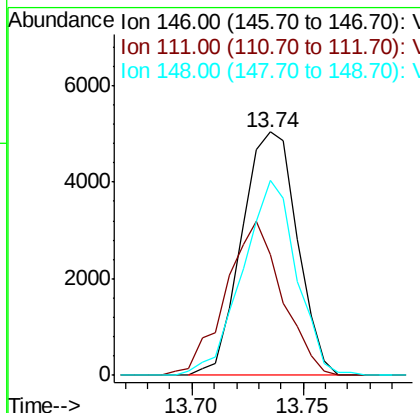
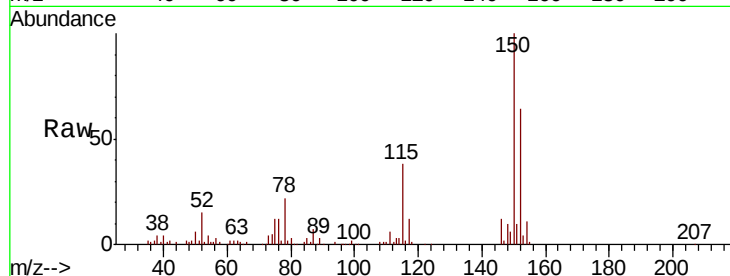
ClientSampleId :

MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.5  | 33.4  | 50.0  |
| 148     | 80.3  | 50.8  | 76.2  |

Manual Integrations  
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#66

1,2-Dibromo-3-chloropropane

Concen: 2.281 ug/L

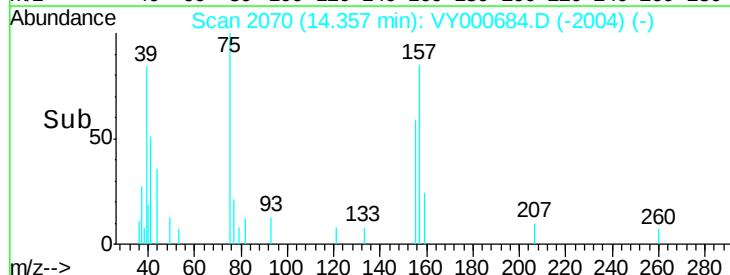
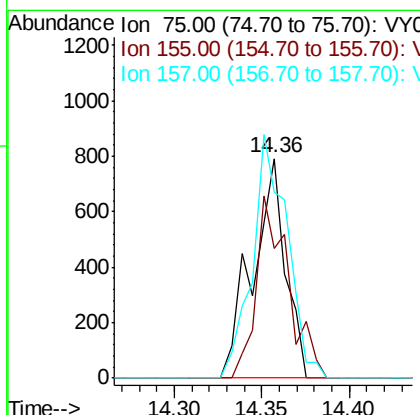
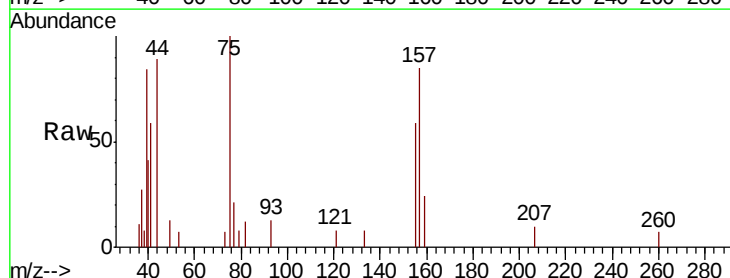
RT: 14.36 min Scan# 2070

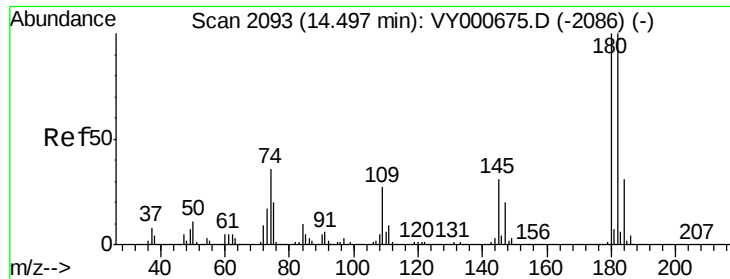
Delta R.T. 0.00 min

Lab File: VY000684.D

Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 59.2  | 67.7  | 101.5 |
| 157     | 84.7  | 77.8  | 116.8 |





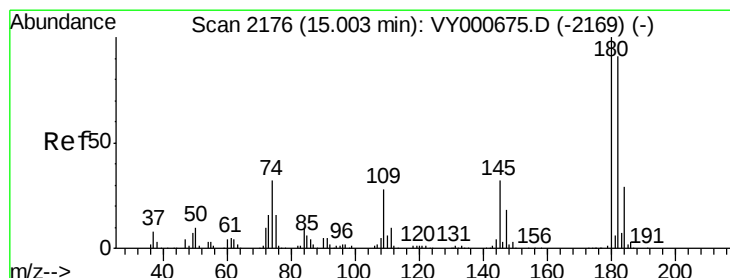
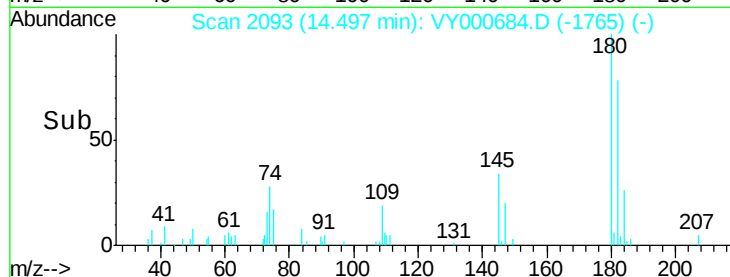
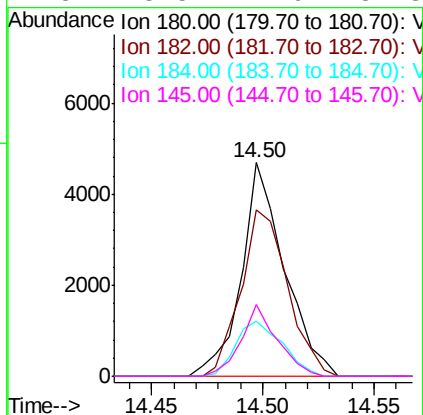
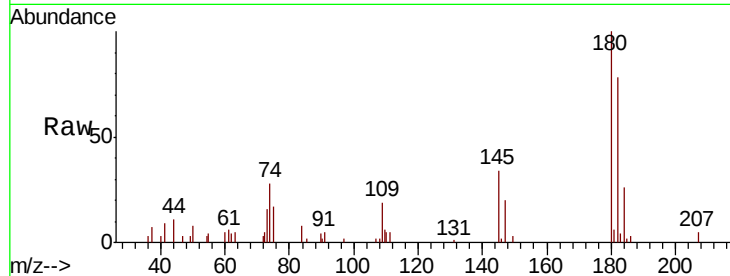
#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.374 ug/L  
 RT: 14.50 min Scan# 2093  
 Delta R.T. 0.00 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 84.7  | 77.8  | 116.6 |
| 184     | 27.9  | 25.2  | 37.8  |
| 145     | 28.5  | 24.9  | 37.3  |

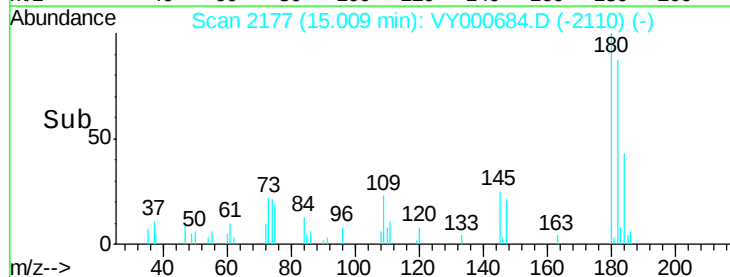
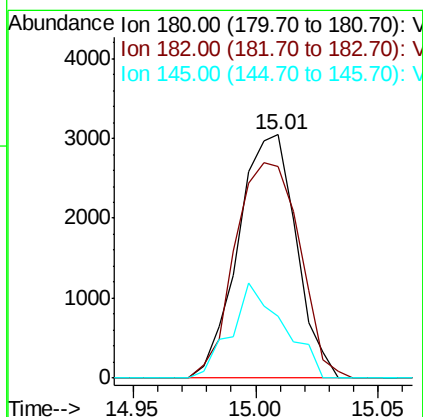
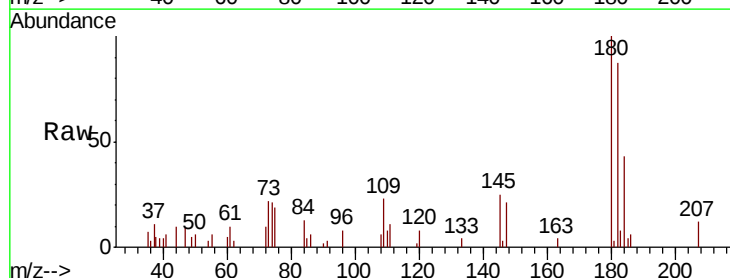
Manual Integrations  
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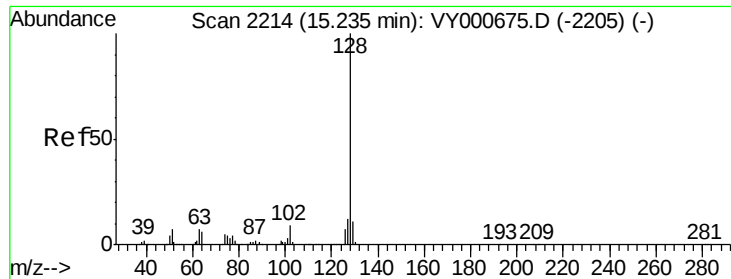
MMDadoda  
 11/15/2019 3:05:16 PM



#68  
 1,2,4-trichlorobenzene  
 Concen: 2.003 ug/L  
 RT: 15.01 min Scan# 2177  
 Delta R.T. 0.01 min  
 Lab File: VY000684.D  
 Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.6  | 75.5  | 113.3 |
| 145     | 35.3  | 25.4  | 38.0  |





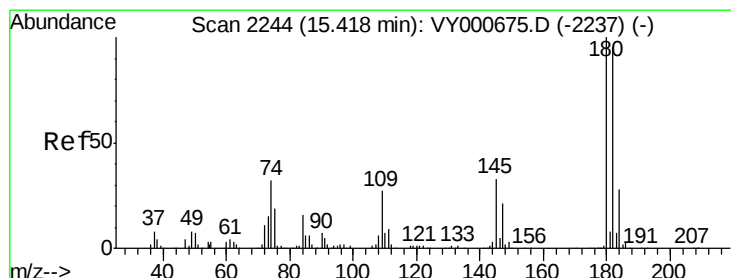
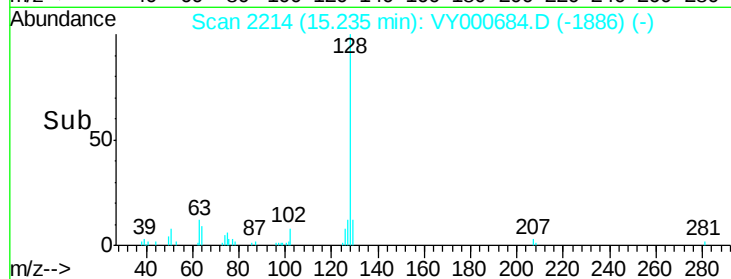
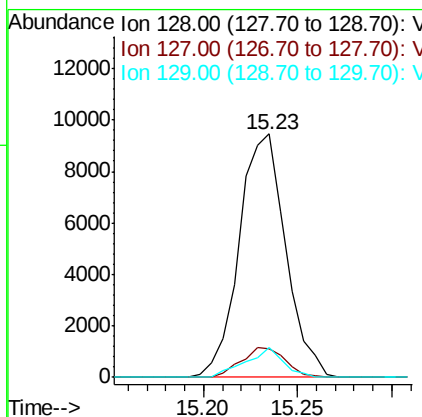
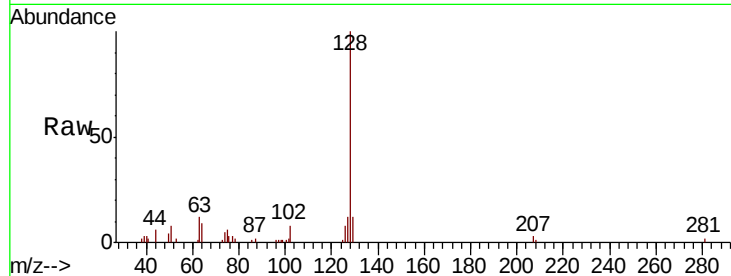
#69  
Naphthalene  
Concen: 2.167 ug/L  
RT: 15.23 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MDL5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.5  | 10.1  | 15.1  |
| 129     | 9.9   | 8.7   | 13.1  |

Manual Integrations  
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#70  
1,2,3-Trichlorobenzene  
Concen: 2.210 ug/L  
RT: 15.41 min Scan# 2243  
Delta R.T. -0.01 min  
Lab File: VY000684.D  
Acq: 14 Nov 2019 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.8  | 75.3  | 112.9 |
| 145     | 36.4  | 25.8  | 38.8  |

