

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080320\  
 Data File : VL035317.D  
 Acq On : 3 Aug 2020 13:38  
 Operator : SY/AP  
 Sample : VSTDIC001  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

apatel  
 8/6/2020 2:44:20 PM

Quant Time: Aug 04 05:21:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 04  
 QLast Update : Mon Aug 03 15:02:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1494950  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3738434  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3448660  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2949678  | 10.70    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 107.00% |

| Target Compounds               |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 204252  | 1.144 ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 181235  | 1.095 ppbv   | 99     |
| 4) Chloromethane               | 3.10 | 50  | 100220  | 1.076 ppbv   | 100    |
| 5) Vinyl Chloride              | 3.21 | 62  | 100210  | 1.033 ppbv   | 96     |
| 6) Bromomethane                | 3.43 | 94  | 64223   | 1.072 ppbv   | 94     |
| 7) Chloroethane                | 3.52 | 64  | 39895   | 1.139 ppbv # | 85     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 254565  | 1.124 ppbv   | 100    |
| 9) Propene                     | 2.96 | 41  | 58036   | 1.006 ppbv   | 99     |
| 10) Heptane                    | 8.12 | 43  | 149729  | 0.959 ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.92 | 101 | 275958  | 1.149 ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.46 | 101 | 195094  | 1.145 ppbv   | 92     |
| 13) Ethanol                    | 3.57 | 45  | 25724m  | 1.096 ppbv   |        |
| 14) Bromoethene                | 3.70 | 108 | 76597   | 1.102 ppbv   | 96     |
| 15) Acetone                    | 3.82 | 43  | 242705  | 1.217 ppbv   | 97     |
| 16) 1,3-Butadiene              | 3.29 | 39  | 73214   | 0.941 ppbv   | 87     |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 207520m | 1.078 ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.26 | 96  | 82535   | 1.091 ppbv   | 88     |
| 19) Isopropyl Alcohol          | 3.94 | 45  | 144448  | 1.098 ppbv # | 94     |
| 20) Methylene Chloride         | 4.32 | 84  | 111999  | 1.234 ppbv   | 83     |
| 21) Allyl Chloride             | 4.38 | 41  | 125726  | 1.107 ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 83222   | 1.145 ppbv   | 86     |
| 23) Vinyl Acetate              | 5.05 | 43  | 217993  | 1.088 ppbv # | 98     |
| 24) 1,1-Dichloroethane         | 4.98 | 63  | 203920  | 1.091 ppbv   | 98     |
| 25) Ethyl Acetate              | 5.66 | 43  | 331377  | 1.064 ppbv   | 99     |
| 26) Hexane                     | 5.67 | 57  | 149206  | 1.062 ppbv   | 98     |
| 27) Carbon Disulfide           | 4.53 | 76  | 193393  | 1.019 ppbv # | 86     |
| 28) Methyl tert-Butyl Ether    | 5.02 | 73  | 220313  | 1.097 ppbv   | 100    |
| 29) Chloroform                 | 5.74 | 83  | 254253  | 1.079 ppbv   | 86     |
| 30) Cyclohexane                | 7.13 | 84  | 92277   | 0.919 ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 127339  | 1.040 ppbv # | 94     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 242152m | 1.004 ppbv   |        |
| 34) 2-Butanone                 | 5.23 | 43  | 188481  | 0.991 ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 238685  | 0.954 ppbv   | 98     |
| 36) Benzene                    | 6.89 | 78  | 261253  | 1.006 ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.30 | 62  | 179832  | 0.990 ppbv   | 100    |
| 38) Trichloroethene            | 7.84 | 130 | 101096  | 0.939 ppbv   | 94     |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 102661  | 0.990 ppbv   | 89     |
| 40) 1,4-Dioxane                | 7.85 | 88  | 46129m  | 1.130 ppbv   |        |
| 41) Tetrahydrofuran            | 6.05 | 42  | 88550   | 0.950 ppbv   | 98     |
| 42) Bromodichloromethane       | 7.79 | 83  | 246350  | 1.016 ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 100506  | 0.893 ppbv   | 96     |

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Manual Integrations  
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 0  
 QLast Update : Mon Aug 03 15:02:12 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| -----                         |       |      |          |       |        |          |
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 457789   | 1.000 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 95934    | 0.846 | ppbv   | 92       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 121739   | 0.881 | ppbv   | 90       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 121774   | 0.994 | ppbv   | 90       |
| 48) Dibromochloromethane      | 10.32 | 129  | 182116   | 0.944 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 156968   | 0.905 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 259782   | 0.942 | ppbv   | 97       |
| 51) 2-Hexanone                | 10.16 | 43   | 184794   | 0.884 | ppbv # | 94       |
| 52) Tetrachloroethene         | 11.25 | 164  | 99757m   | 1.006 | ppbv   |          |
| 53) Toluene                   | 9.82  | 91   | 245743   | 0.890 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 178476m  | 1.008 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 162656   | 1.026 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.17 | 112  | 272850m  | 1.051 | ppbv   |          |
| 58) Ethyl Benzene             | 12.73 | 91   | 343025m  | 0.939 | ppbv   |          |
| 59) m/p-Xylene                | 13.02 | 91   | 693215m  | 2.039 | ppbv   |          |
| 60) o-Xylene                  | 13.72 | 91   | 340116   | 1.003 | ppbv   | 96       |
| 61) Styrene                   | 13.55 | 104  | 175020   | 0.850 | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.70 | 105  | 526085   | 1.042 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 285762   | 0.979 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.59 | 120  | 134404m  | 1.001 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.78 | 119  | 464041   | 1.014 | ppbv   | 96       |
| 66) Benzyl Chloride           | 17.02 | 91   | 158813m  | 0.886 | ppbv   |          |
| 67) sec-Butylbenzene          | 17.33 | 105  | 669533   | 1.002 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 546966   | 1.003 | ppbv   | 97       |
| 70) n-Butylbenzene            | 18.59 | 91   | 589255   | 0.999 | ppbv   | 94       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 371569   | 0.976 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 370688   | 0.971 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.02 | 105  | 378259   | 1.016 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 448454   | 1.034 | ppbv   | 92       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 280938   | 1.004 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 263642m  | 1.041 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 251780   | 1.004 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 211543m  | 1.031 | ppbv   |          |
| 79) Naphthalene               | 22.26 | 128  | 315185m  | 0.914 | ppbv   |          |
| 80) Naphthalene, 2-methyl-    | 25.01 | 142  | 59452    | 0.533 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 205407m  | 0.979 | ppbv   |          |
| -----                         |       |      |          |       |        |          |

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

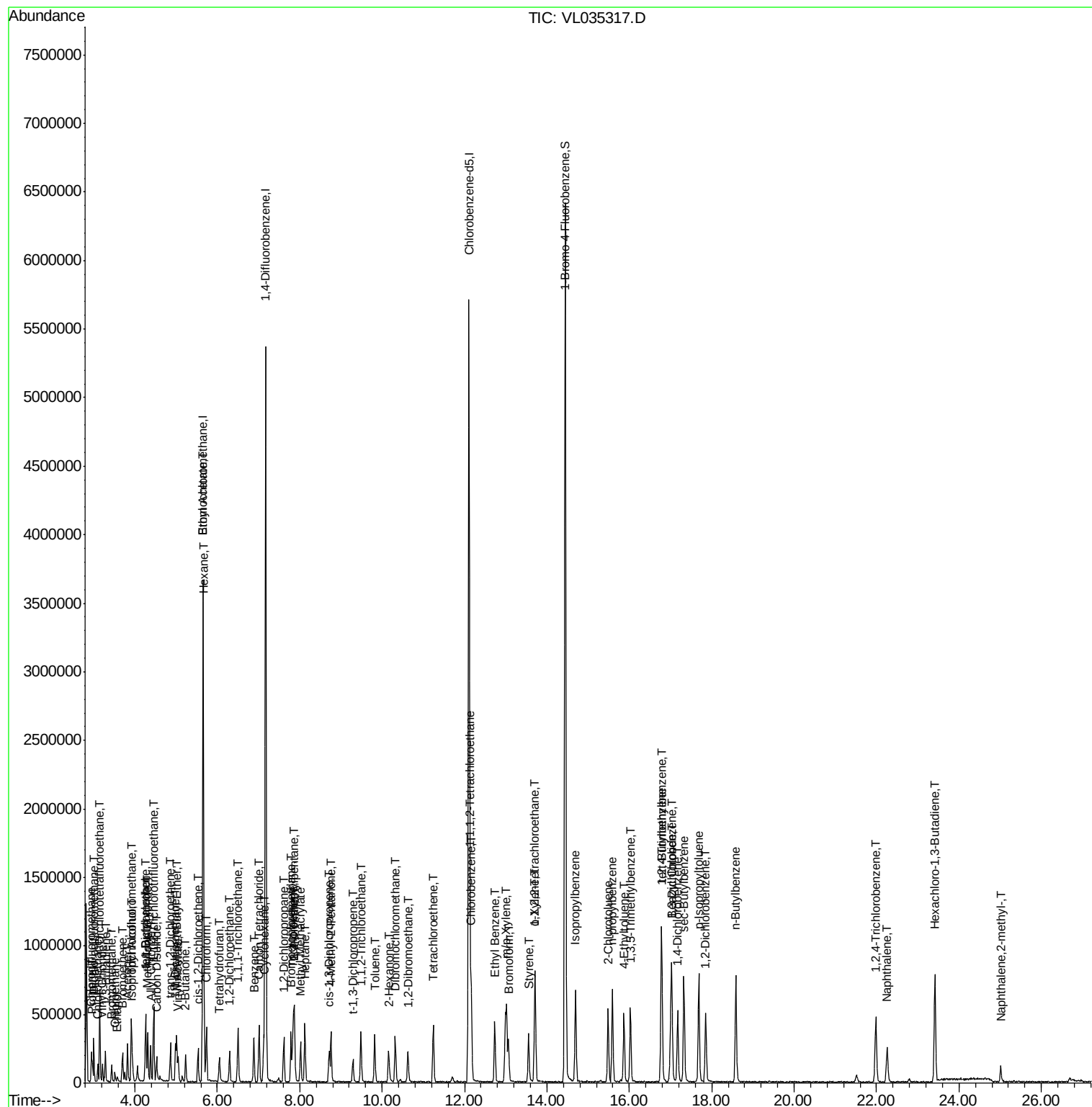
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080320\  
Data File : VL035317.D  
Acq On : 3 Aug 2020 13:38  
Operator : SY/AP  
Sample : VSTDIC001  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

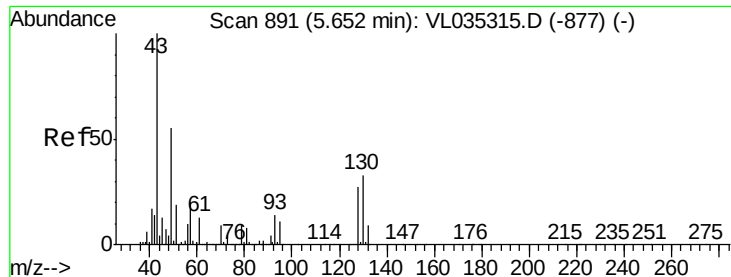
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug  
QLast Update : Mon Aug 03 15:02:12 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1494950

Ion Ratio Lower Upper

49 100

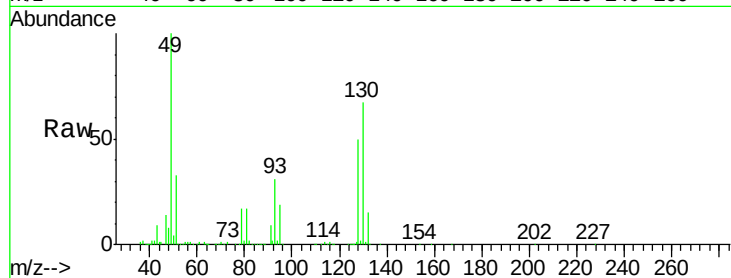
128 50.8 23.8 71.5

130 65.5 31.4 94.3

Manual Integrations  
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

800000

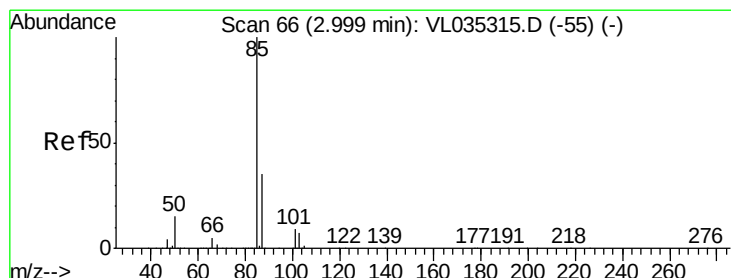
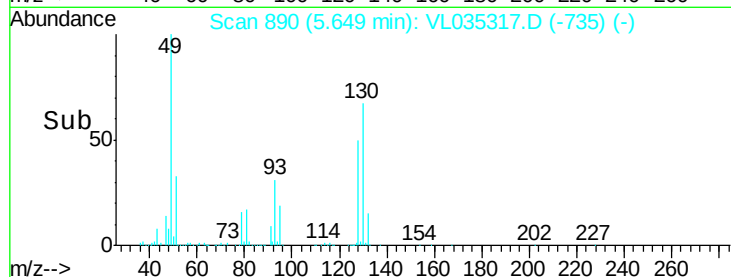
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.144 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035317.D

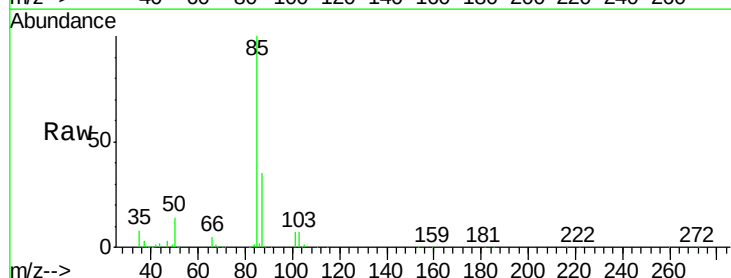
Acq: 3 Aug 2020 13:38

Tgt Ion: 85 Resp: 204252

Ion Ratio Lower Upper

85 100

87 35.3 27.8 41.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.00

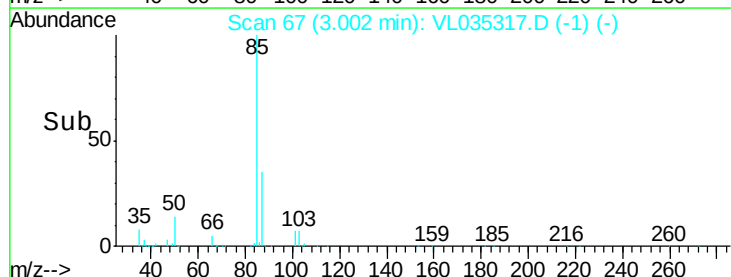
150000

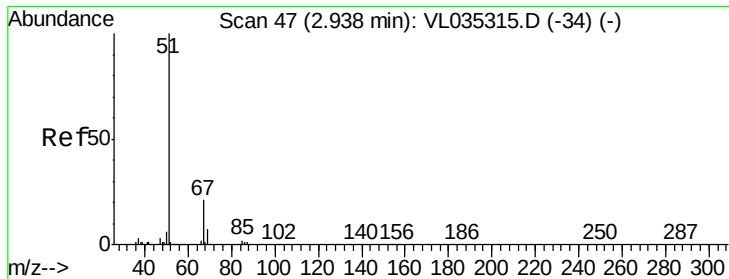
100000

50000

0

Time-->





#3

Chlorodifluoromethane

Concen: 1.095 ppbv

RT: 2.94 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 181235

Ion Ratio Lower Upper

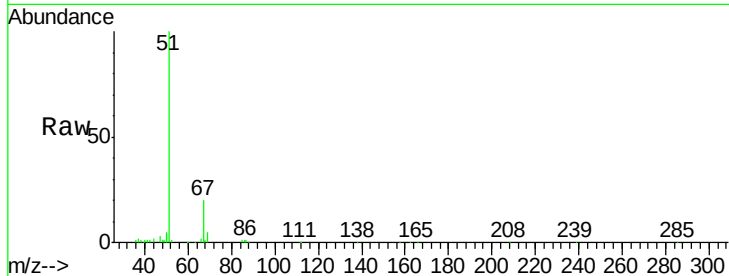
51 100

67 19.6 16.2 24.2

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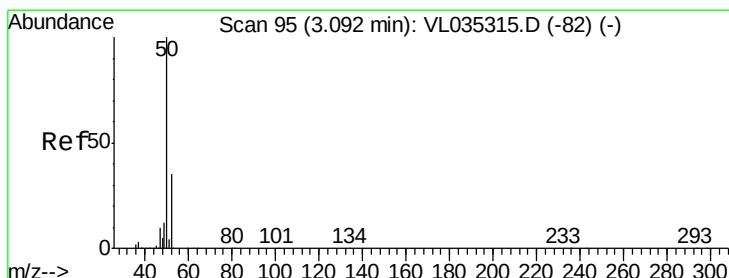
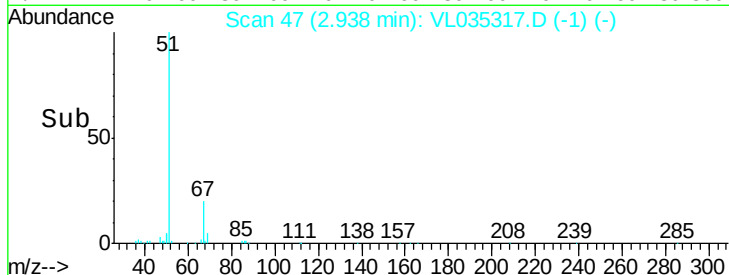
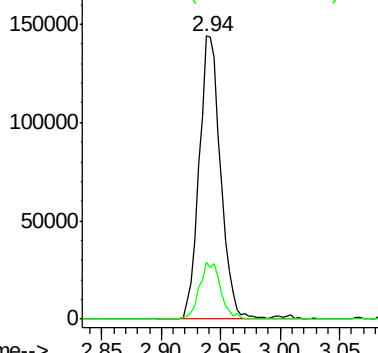
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.076 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.00 min

Lab File: VL035317.D

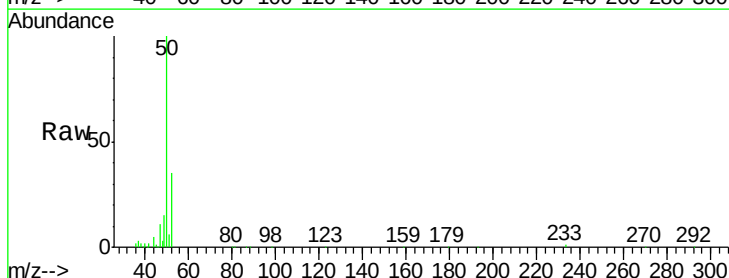
Acq: 3 Aug 2020 13:38

Tgt Ion: 50 Resp: 100220

Ion Ratio Lower Upper

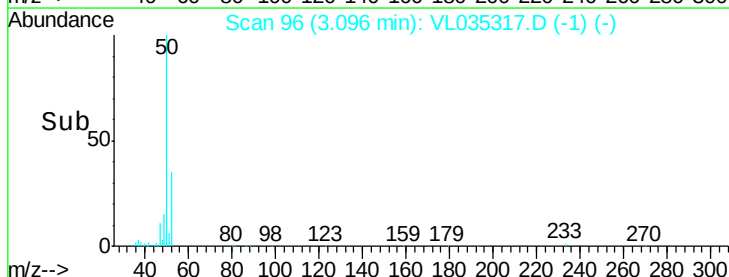
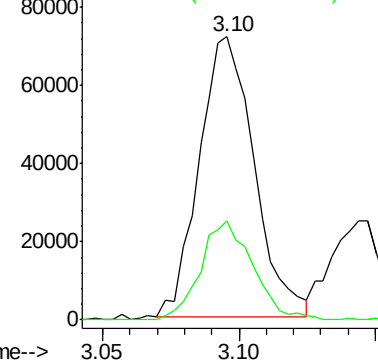
50 100

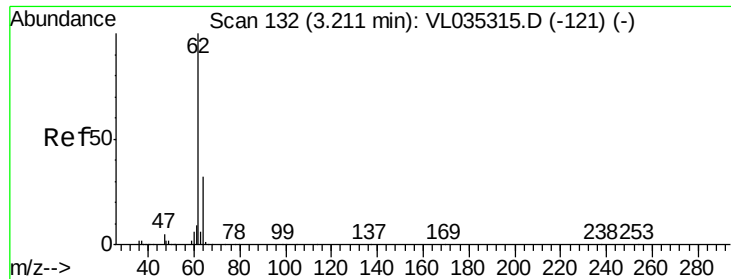
52 35.1 27.8 41.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.033 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 100210

Ion Ratio Lower Upper

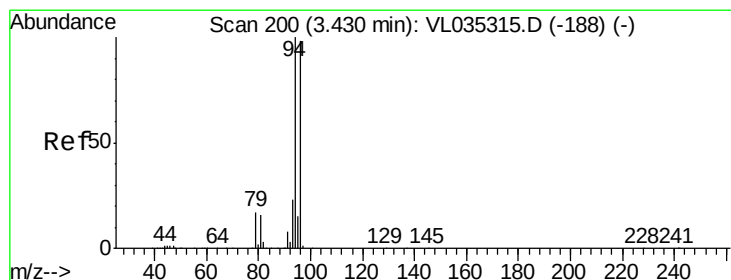
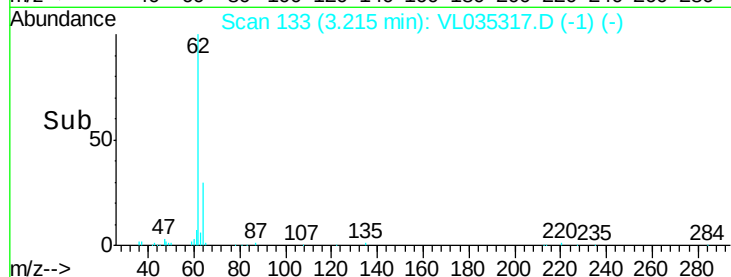
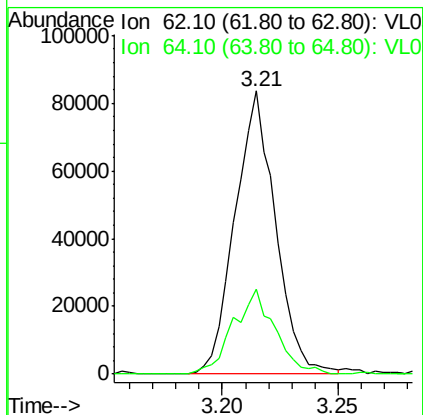
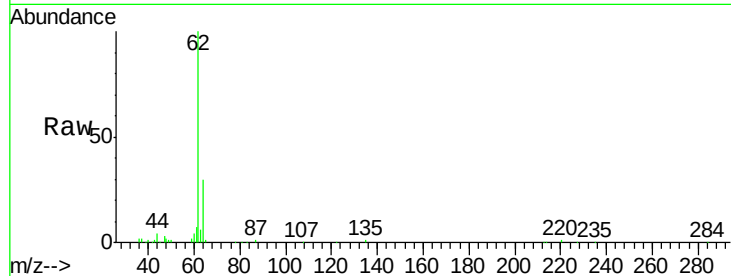
62 100

64 30.0 25.9 38.9

Manual Integrations  
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#6

Bromomethane

Concen: 1.072 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035317.D

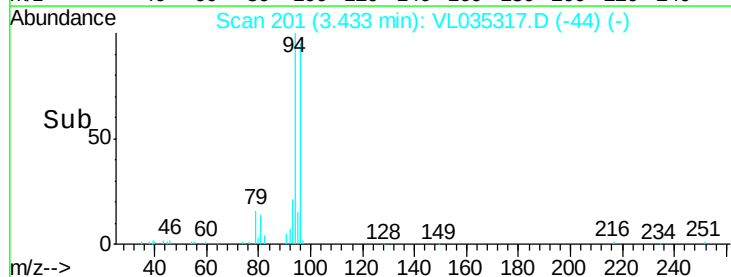
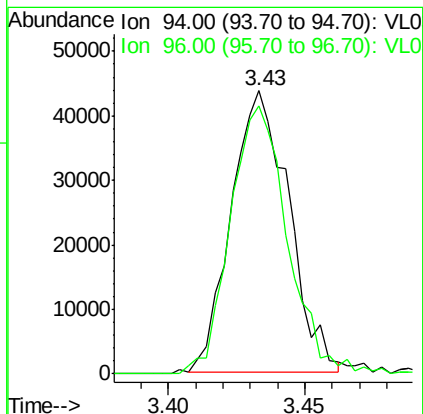
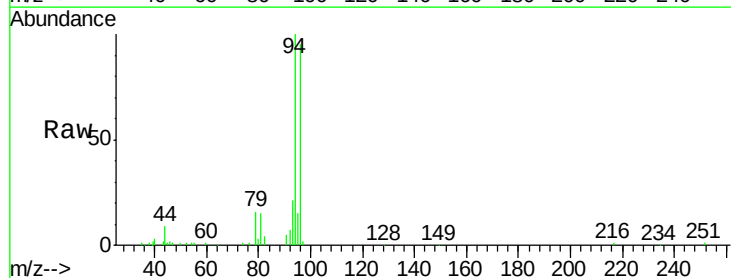
Acq: 3 Aug 2020 13:38

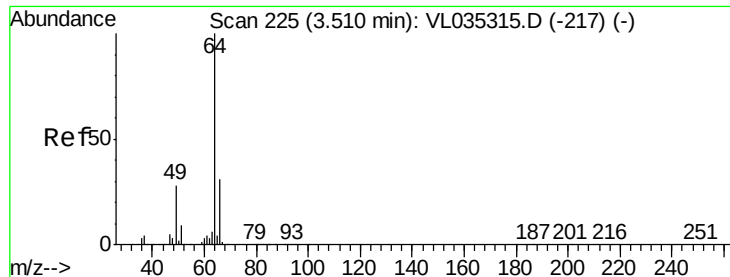
Tgt Ion: 94 Resp: 64223

Ion Ratio Lower Upper

94 100

96 92.6 78.6 117.8





#7

Chloroethane

Concen: 1.139 ppbv

RT: 3.52 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 39895

Ion Ratio Lower Upper

64 100

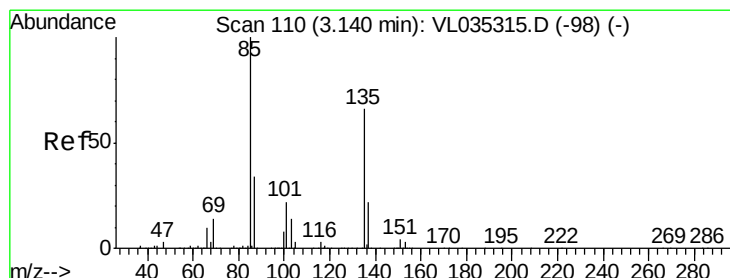
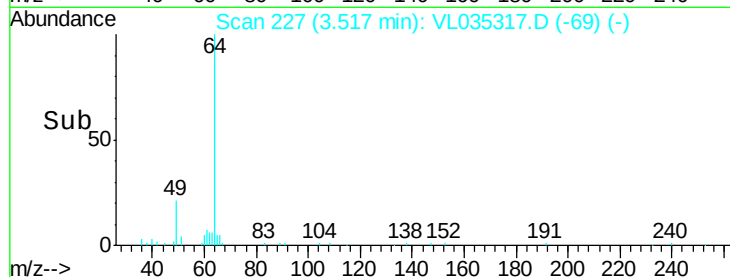
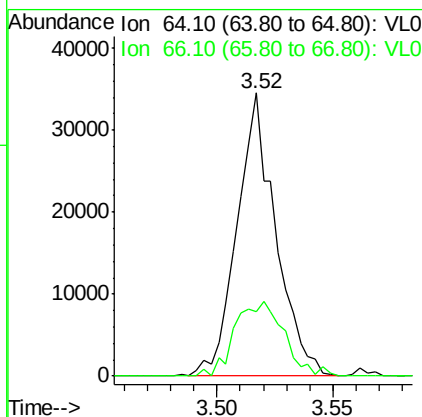
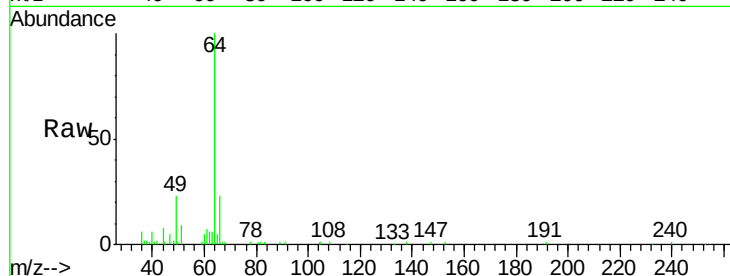
66 22.8 24.9 37.3#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.124 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035317.D

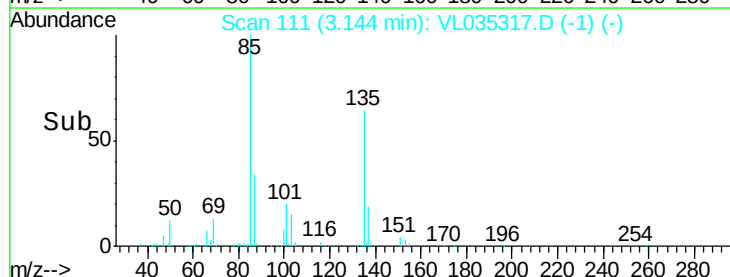
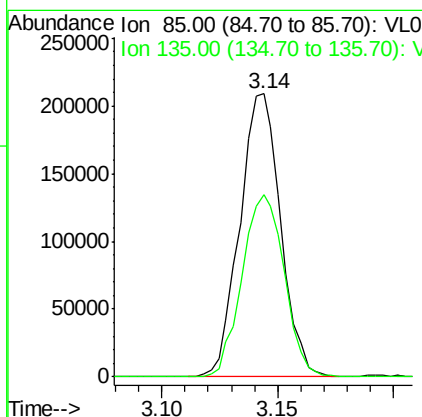
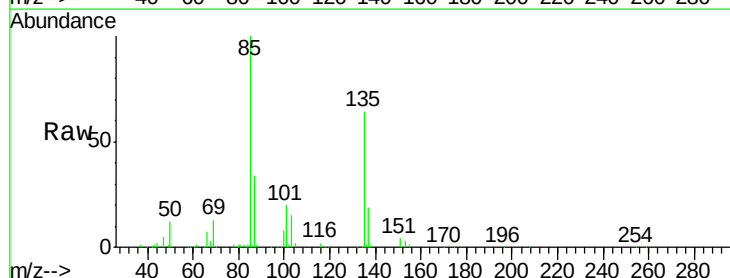
Acq: 3 Aug 2020 13:38

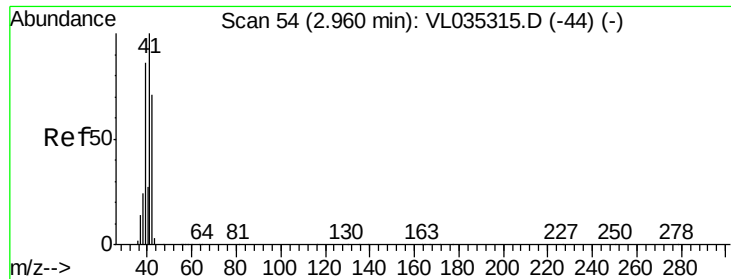
Tgt Ion: 85 Resp: 254565

Ion Ratio Lower Upper

85 100

135 66.8 53.4 80.0





#9

Propene

Concen: 1.006 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 58036

Ion Ratio Lower Upper

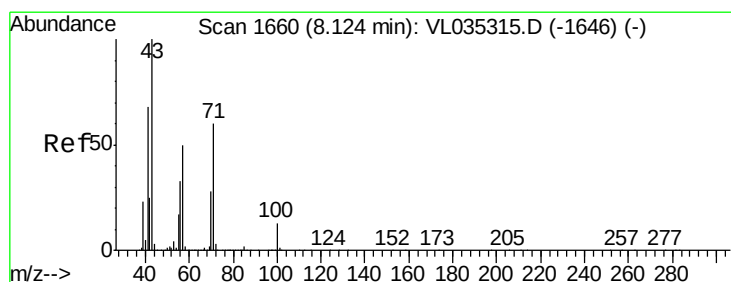
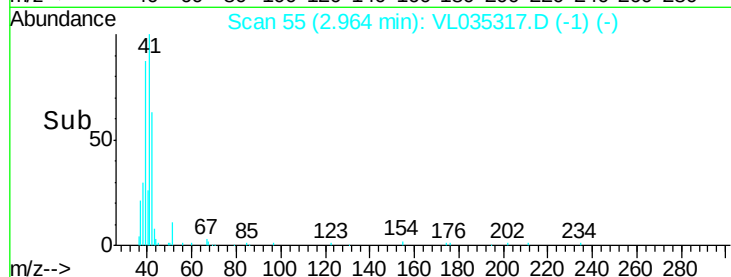
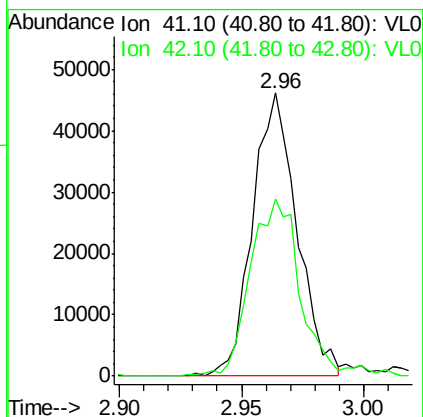
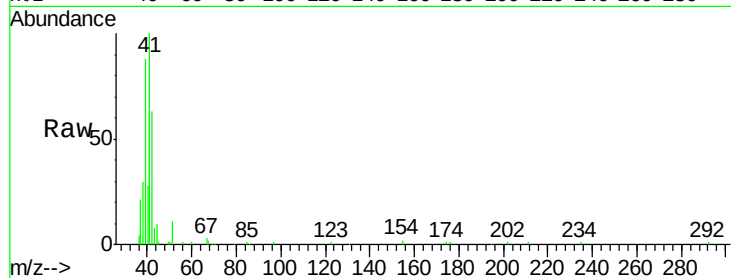
41 100

42 71.9 56.8 85.2

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#10

Heptane

Concen: 0.959 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VL035317.D

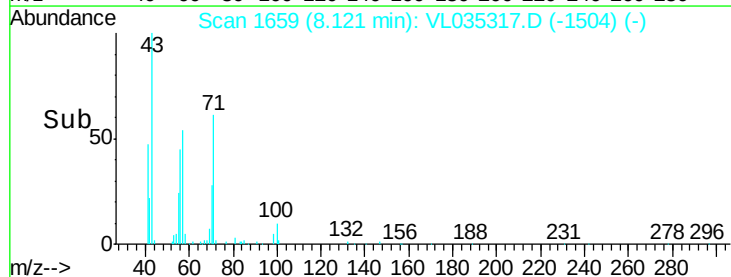
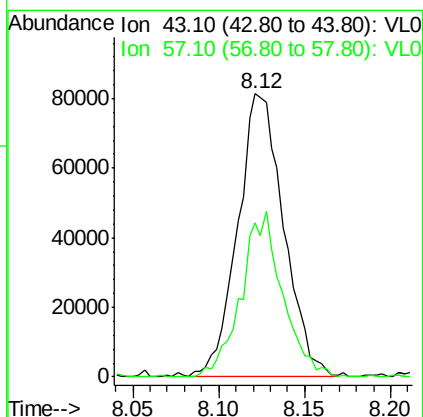
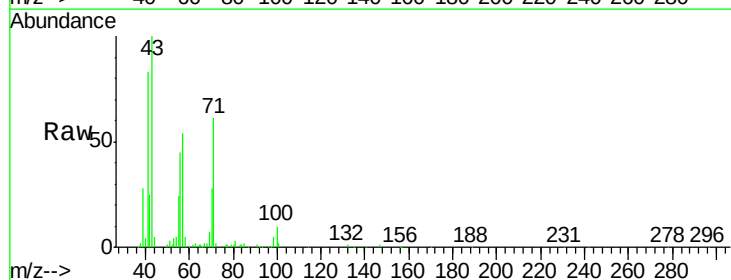
Acq: 3 Aug 2020 13:38

Tgt Ion: 43 Resp: 149729

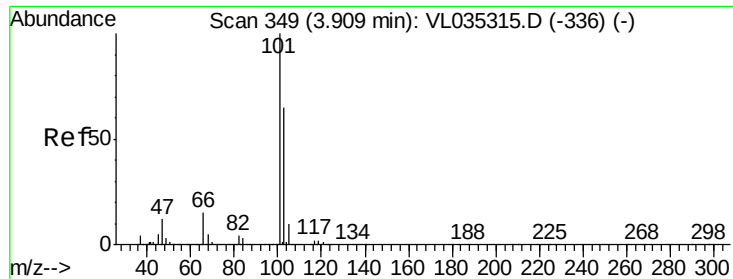
Ion Ratio Lower Upper

43 100

57 53.3 42.4 63.6







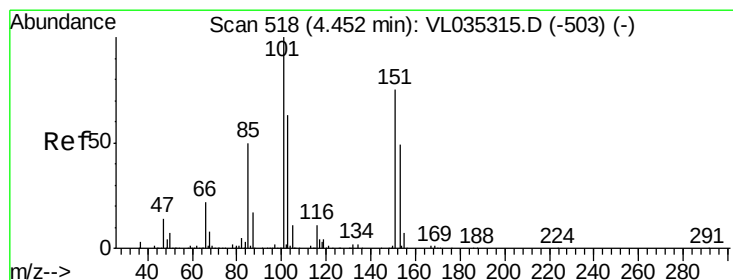
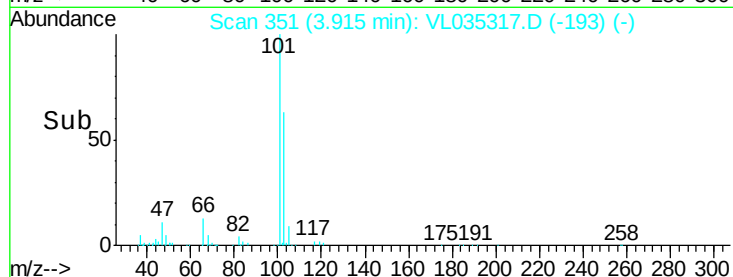
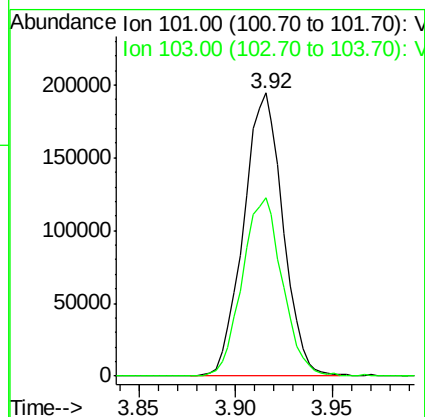
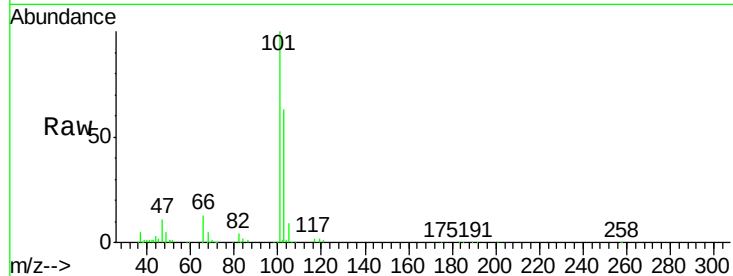
#11  
 Trichlorofluoromethane  
 Concen: 1.149 ppbv  
 RT: 3.92 min Scan# 351  
 Delta R.T. 0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Tot Ion:101 Resp: 275958  
 Ion Ratio Lower Upper  
 101 100  
 103 62.8 51.8 77.6

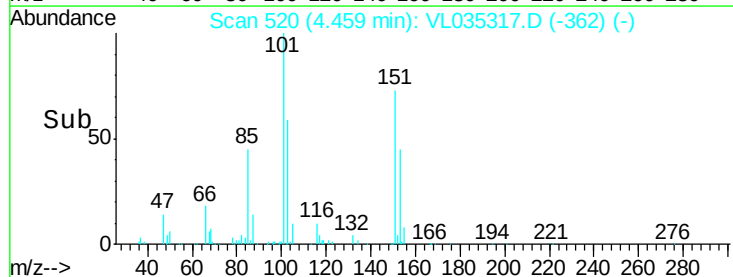
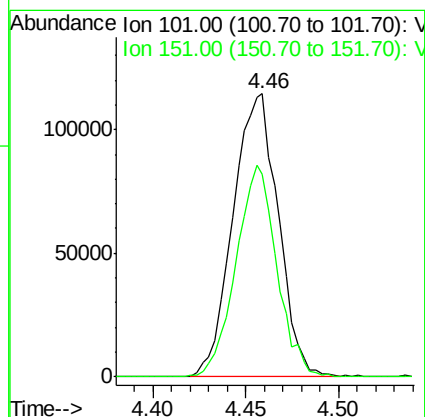
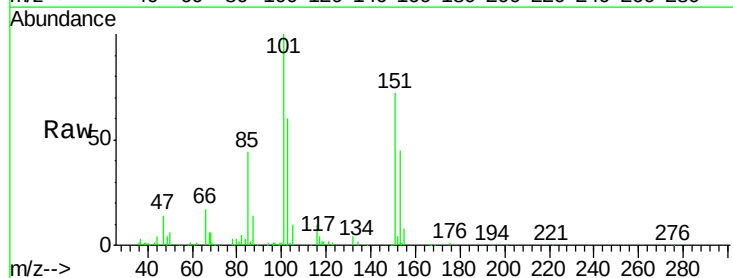
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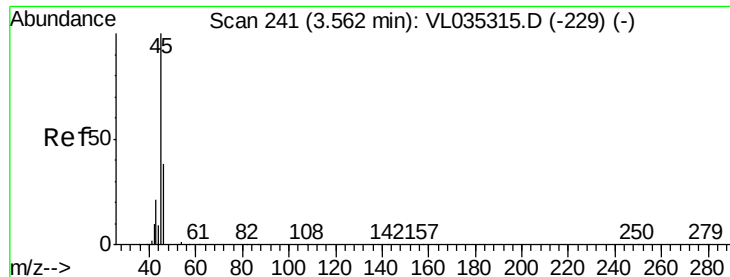
apatel  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.145 ppbv  
 RT: 4.46 min Scan# 520  
 Delta R.T. 0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Tgt Ion:101 Resp: 195094  
 Ion Ratio Lower Upper  
 101 100  
 151 67.0 58.9 88.3





#13

Ethanol

Concen: 1.096 ppbv m

RT: 3.57 min Scan# 245

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 25724

Ion Ratio Lower Upper

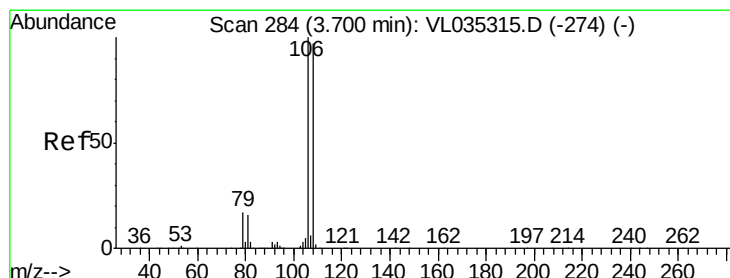
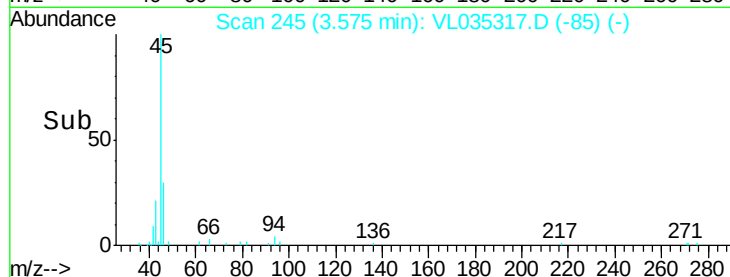
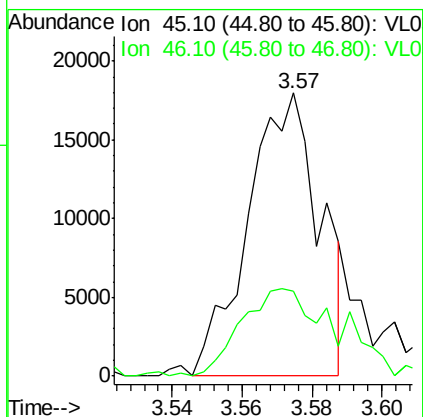
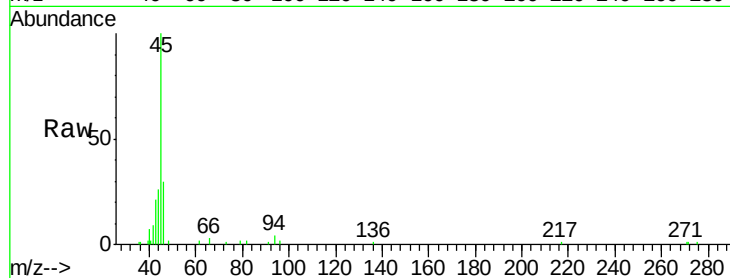
45 100

46 42.2 14.5 57.9

Manual Integrations  
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#14

Bromoethene

Concen: 1.102 ppbv

RT: 3.70 min Scan# 285

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

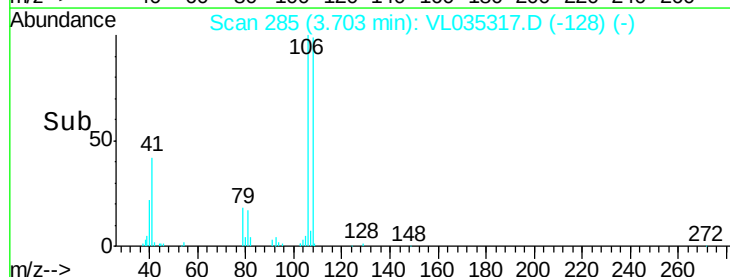
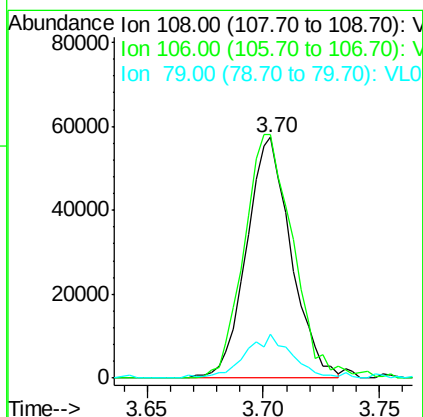
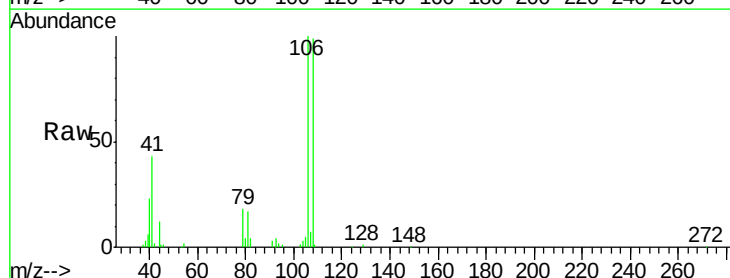
Tgt Ion: 108 Resp: 76597

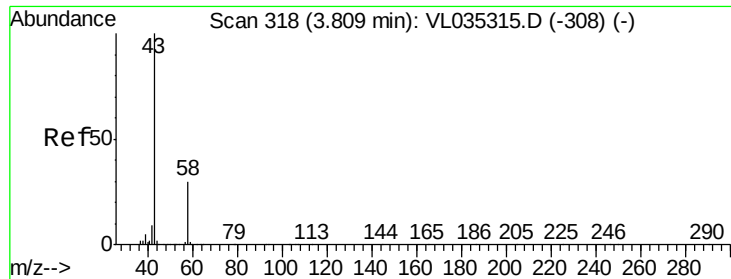
Ion Ratio Lower Upper

108 100

106 111.4 86.2 129.2

79 20.3 14.0 21.0





#15

Acetone

Concen: 1.217 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 242705

Ion Ratio Lower Upper

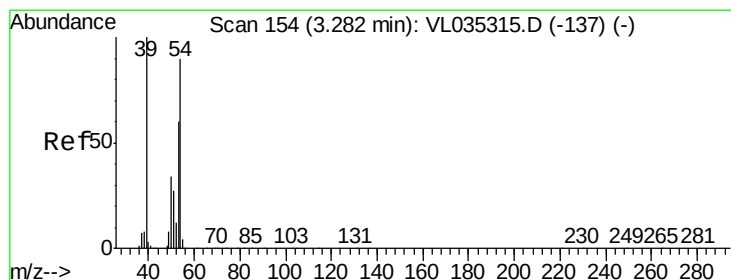
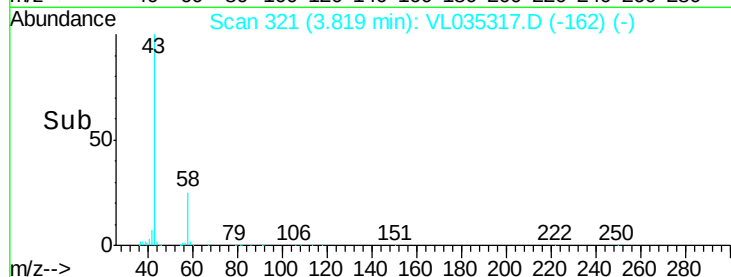
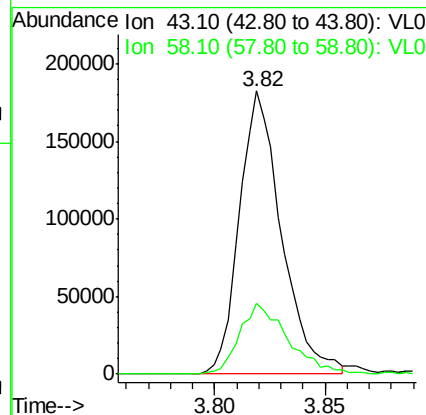
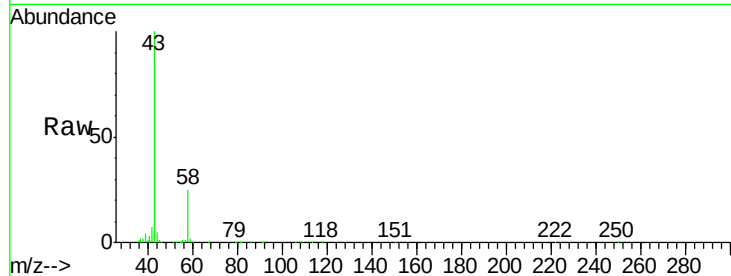
43 100

58 29.4 22.1 33.1

Manual Integrations  
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#16

1,3-Butadiene

Concen: 0.941 ppbv

RT: 3.29 min Scan# 155

Delta R.T. 0.00 min

Lab File: VL035317.D

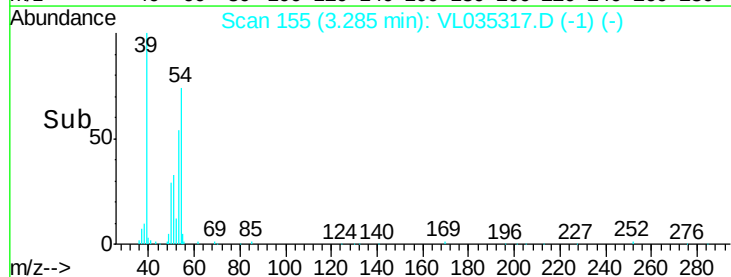
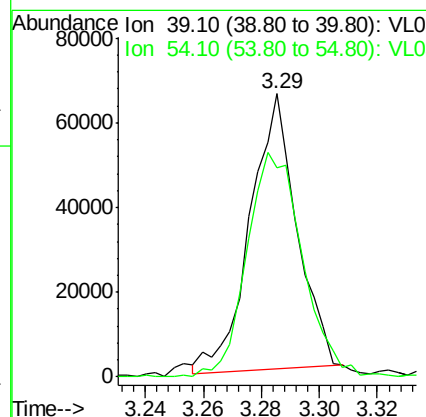
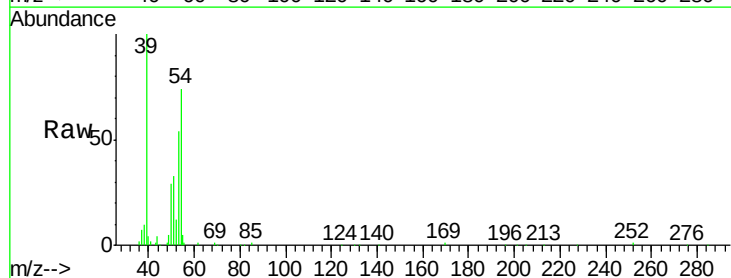
Acq: 3 Aug 2020 13:38

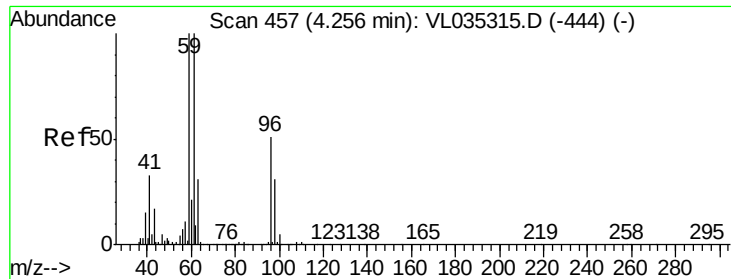
Tgt Ion: 39 Resp: 73214

Ion Ratio Lower Upper

39 100

54 97.0 68.0 102.0





#17

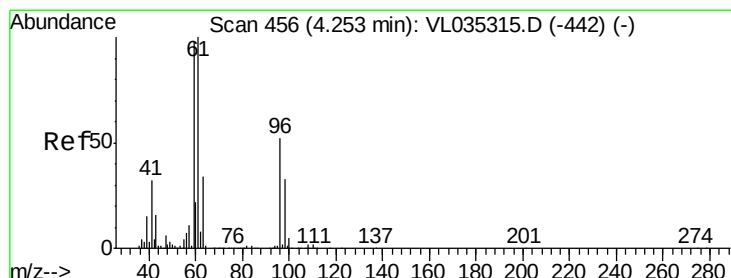
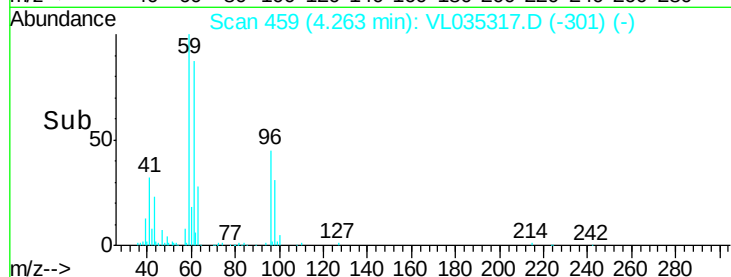
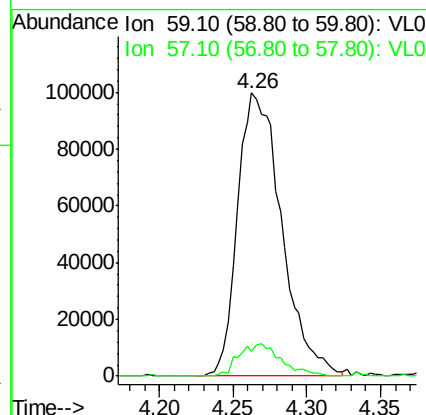
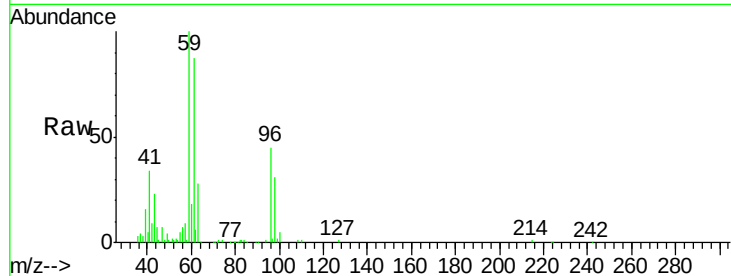
tert-Butyl alcohol  
 Concen: 1.078 ppbv  
 RT: 4.26 min Scan# 459  
 Delta R.T. 0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 VSTDIC001

| Tot Ion   | 59    | Resp  | 207520 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 59        | 100   |       |        |
| 57        | 11.1  | 8.6   | 13.0   |

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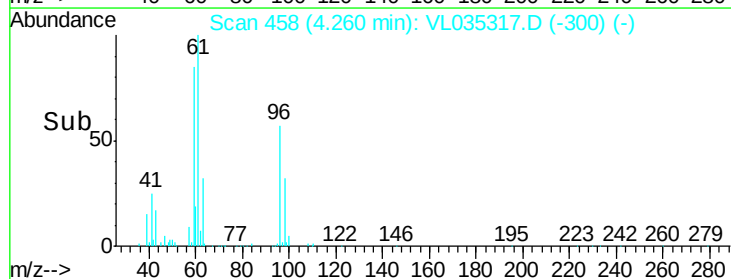
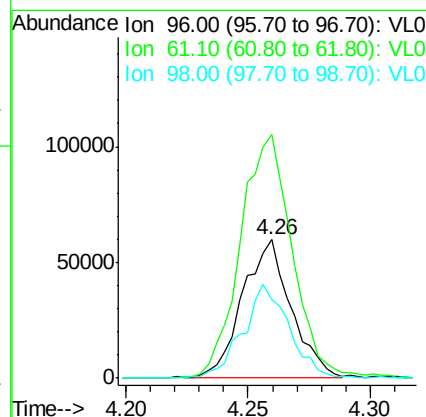
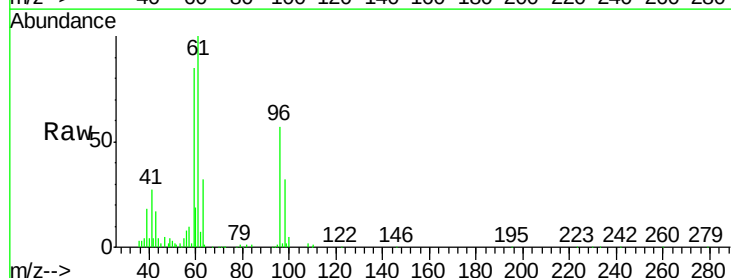
apatel  
 8/6/2020 2:44:20 PM

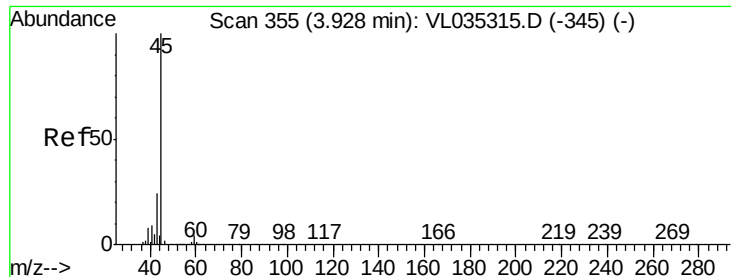


#18

1,1-Dichloroethene  
 Concen: 1.091 ppbv  
 RT: 4.26 min Scan# 458  
 Delta R.T. 0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion   | 96    | Resp  | 82535 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 175.5 | 154.9 | 232.3 |
| 98        | 56.3  | 51.0  | 76.4  |





#19

Isopropyl Alcohol

Concen: 1.098 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 144448

Ion Ratio Lower Upper

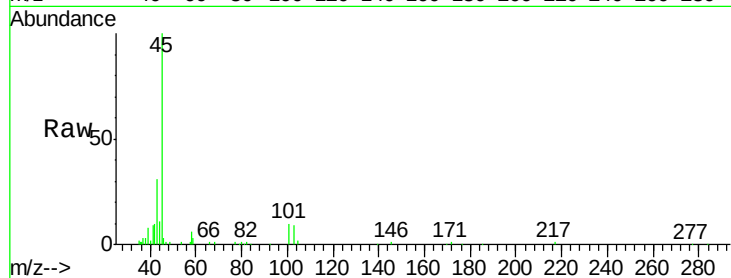
45 100

58 4.0 1.5 2.3#

Manual Integrations  
APPROVED

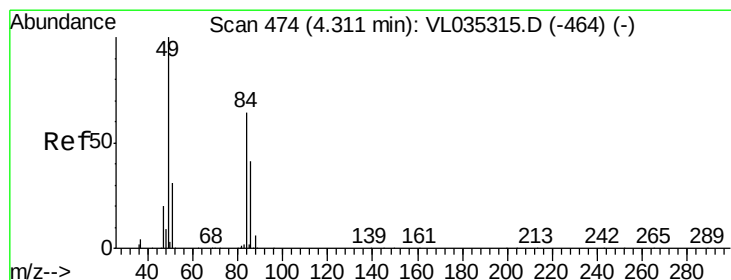
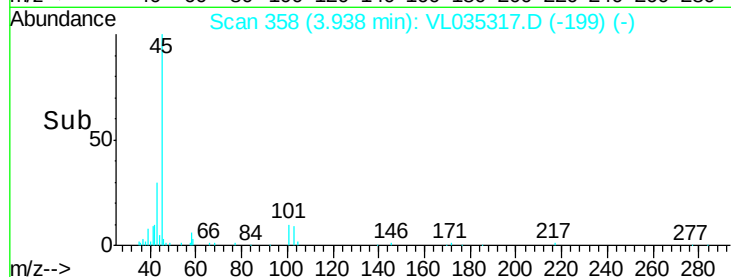
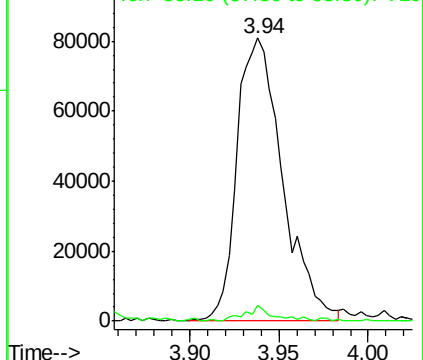
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.234 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Tgt Ion: 84 Resp: 111999

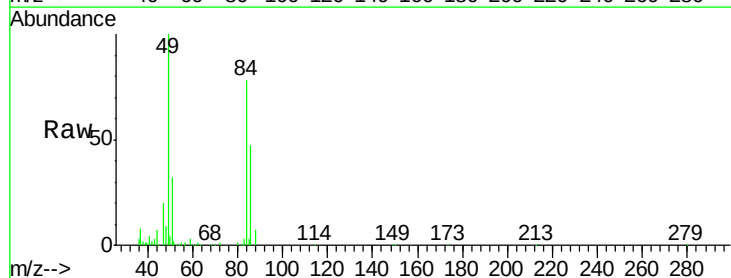
Ion Ratio Lower Upper

84 100

49 124.6 124.2 186.2

51 41.3 38.6 58.0

86 59.9 51.0 76.4

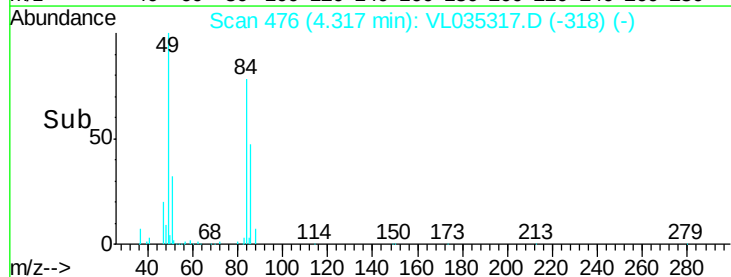
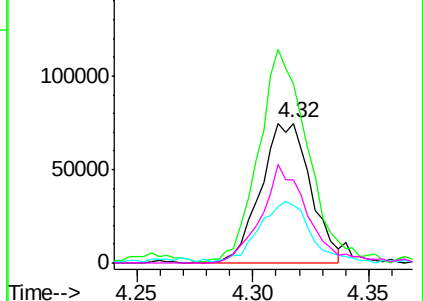


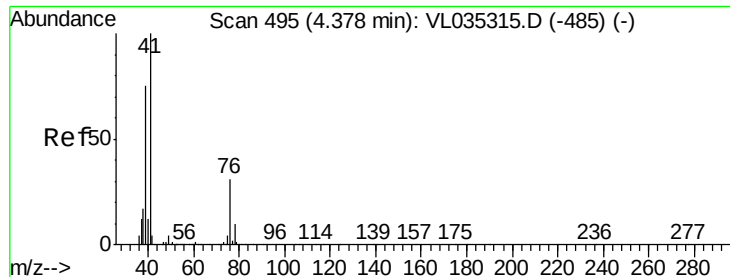
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 1.107 ppbv

RT: 4.38 min Scan# 496

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

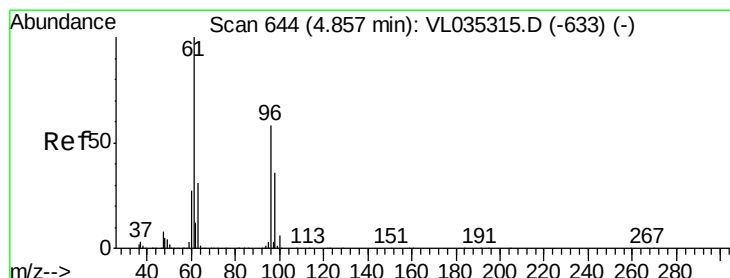
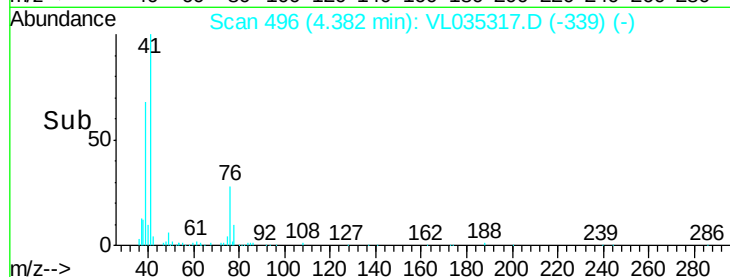
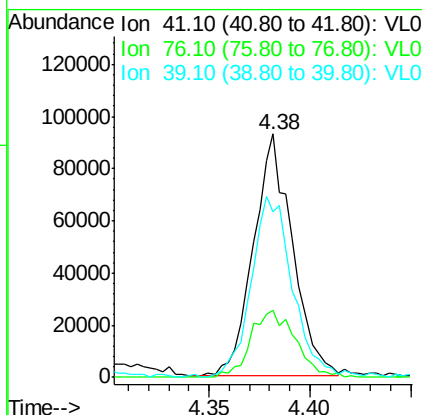
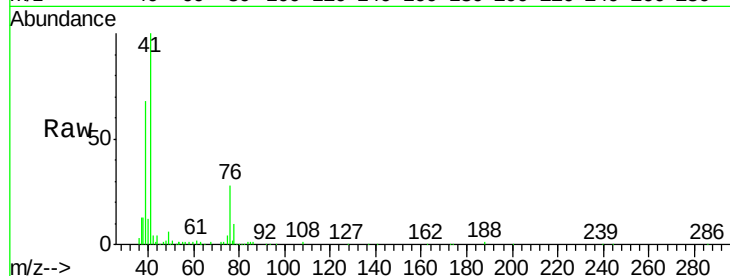
ClientSampleId :

VSTDIC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 41    | Resp: | 125726 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 76        | 31.6  | 24.4  | 36.6   |
| 39        | 80.0  | 61.8  | 92.6   |

Manual Integrations  
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#22

trans-1,2-Dichloroethene

Concen: 1.145 ppbv

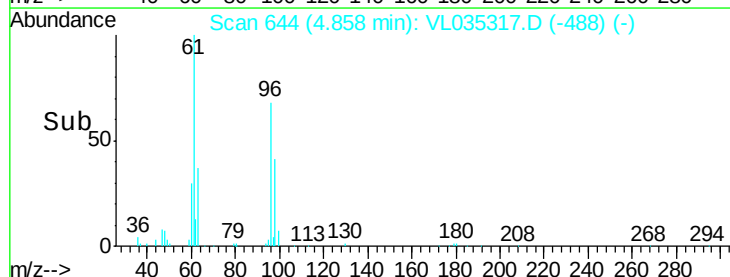
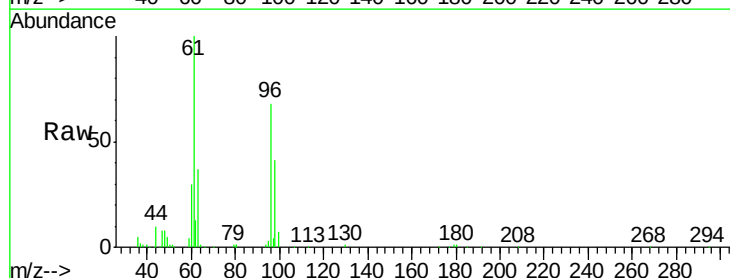
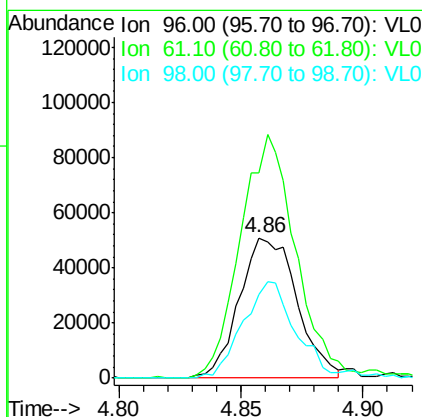
RT: 4.86 min Scan# 644

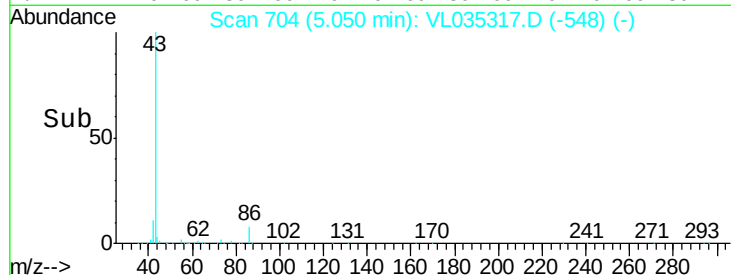
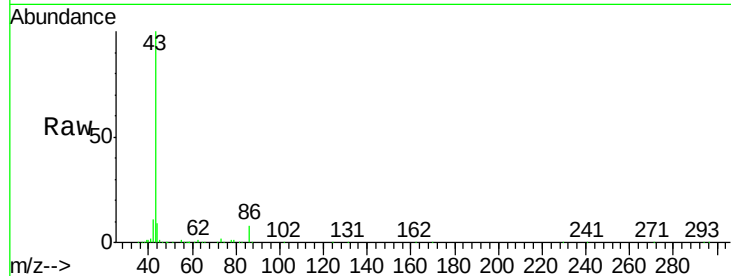
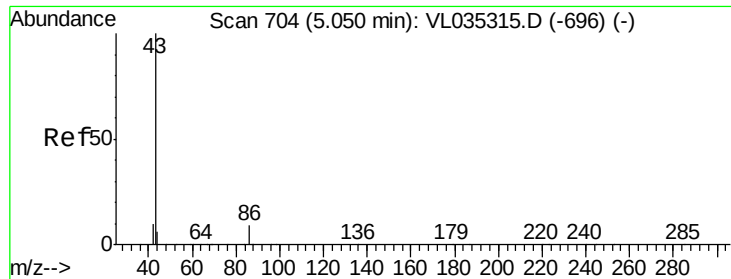
Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 83222 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 146.7 | 136.8 | 205.2 |
| 98        | 58.8  | 49.2  | 73.8  |





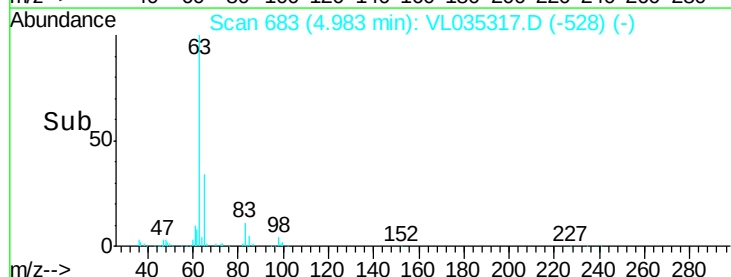
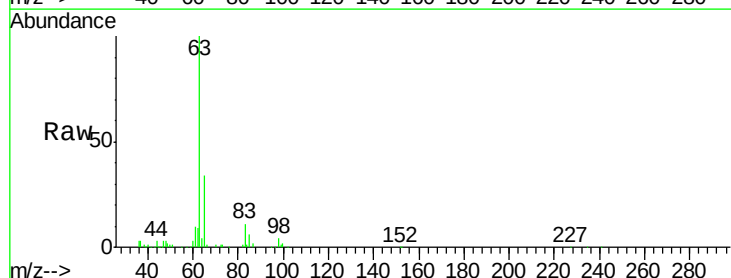
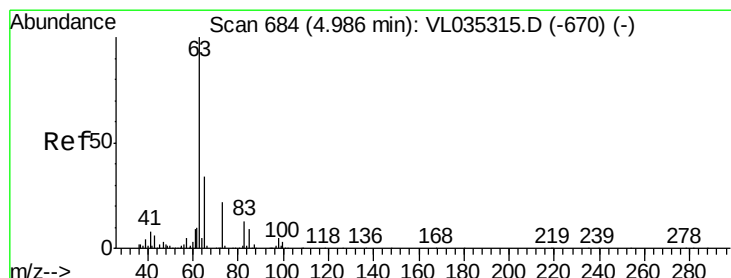
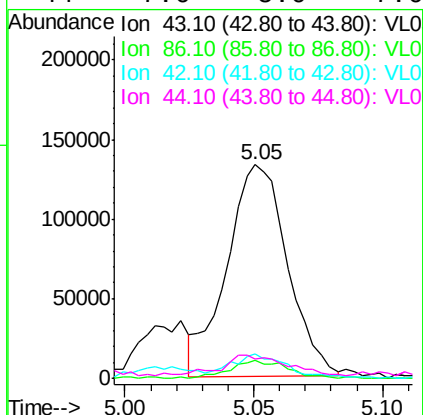
#23  
 Vinyl Acetate  
 Concen: 1.088 ppbv  
 RT: 5.05 min Scan# 704  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tot Ion   | 43    | Resp  | 217993 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 86        | 8.5   | 6.5   | 9.7    |
| 42        | 10.6  | 8.2   | 12.4   |
| 44        | 7.6   | 5.0   | 7.6#   |

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

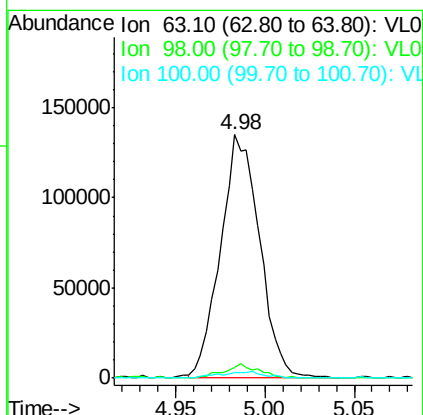
Manual Integrations  
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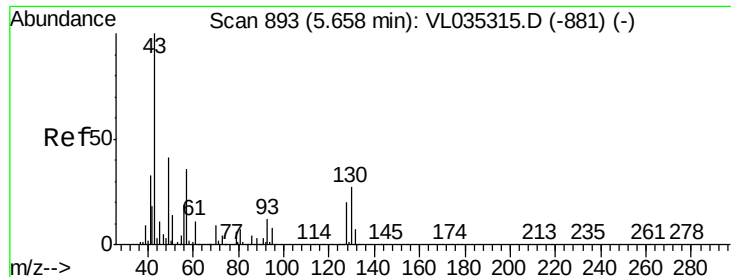
apatel  
 8/6/2020 2:44:20 PM



#24  
 1,1-Dichloroethane  
 Concen: 1.091 ppbv  
 RT: 4.98 min Scan# 683  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion   | 63    | Resp  | 203920 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 98        | 4.2   | 2.5   | 7.5    |
| 100       | 2.0   | 1.5   | 4.4    |





#25

Ethyl Acetate

Concen: 1.064 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

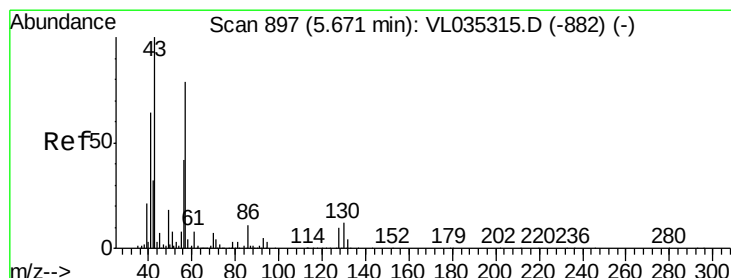
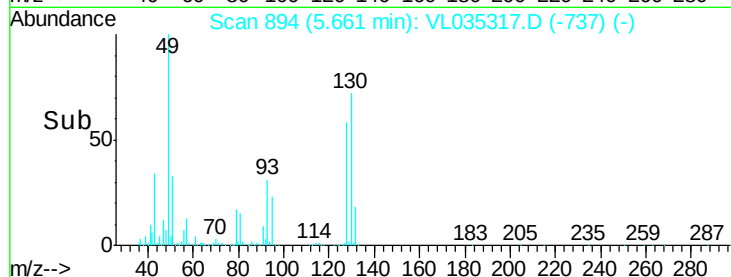
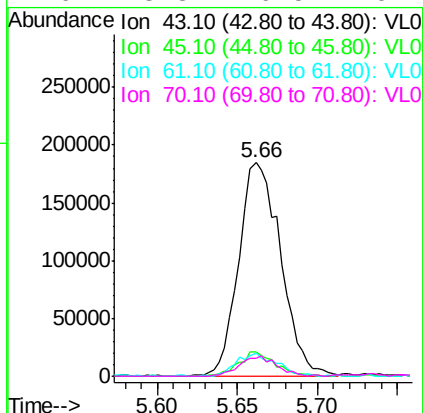
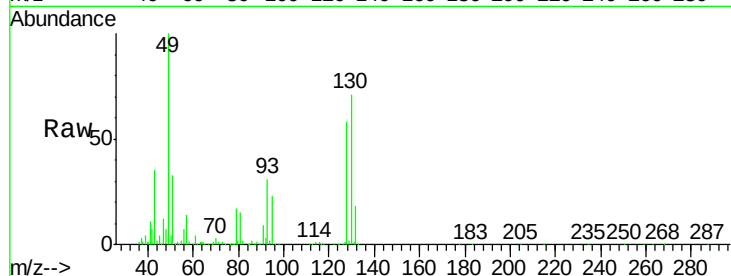
ClientSampleId :

VSTDIC001

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 43      | 100  |       |      |       |       |
| 45      | 10.1 | 8.6   | 12.8 |       |       |
| 61      | 10.2 | 8.1   | 12.1 |       |       |
| 70      | 8.3  | 6.5   | 9.7  |       |       |

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#26

Hexane

Concen: 1.062 ppbv

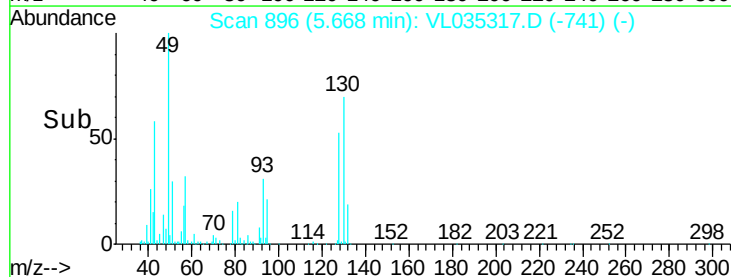
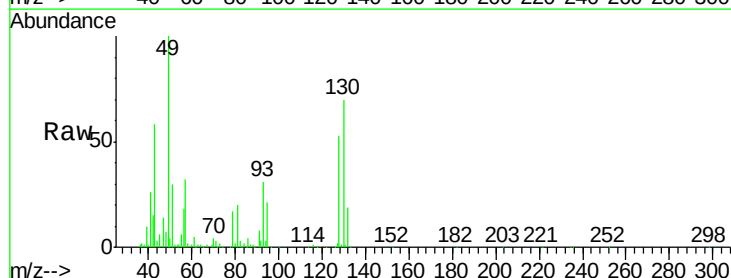
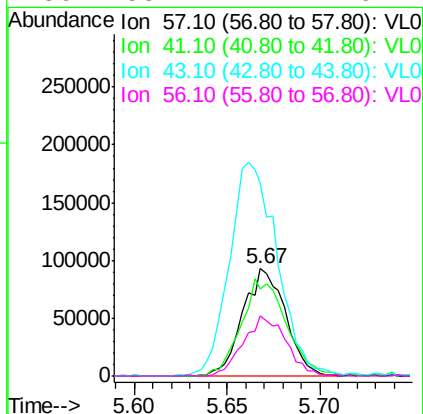
RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

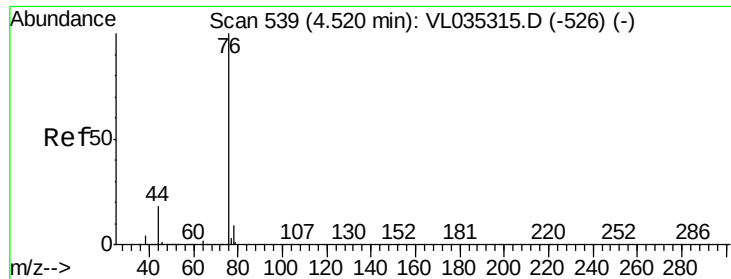
Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 57      | 100   |       |       |       |       |
| 41      | 95.2  | 72.1  | 108.1 |       |       |
| 43      | 223.7 | 179.0 | 268.6 |       |       |
| 56      | 55.7  | 42.7  | 64.1  |       |       |







#27

Carbon Disulfide

Concen: 1.019 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

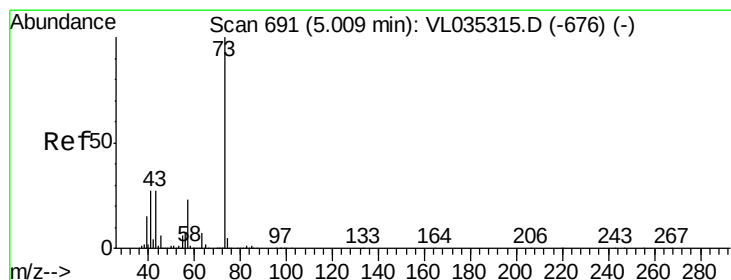
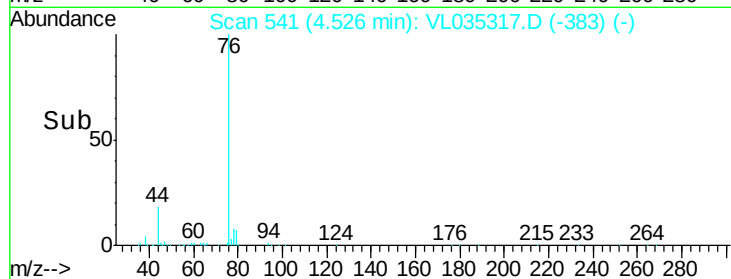
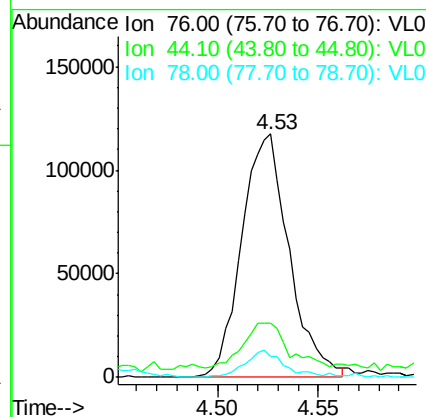
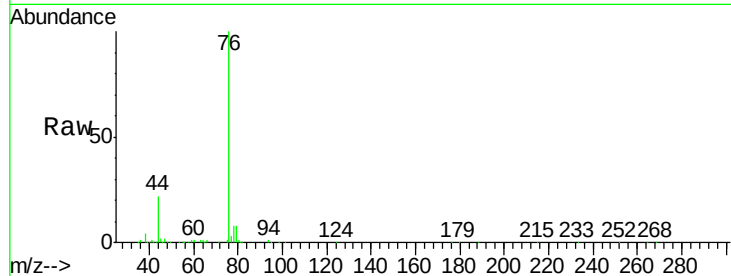
ClientSampleId :

VSTDIC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 76    | Resp: | 193393 |
| Ion Ratio | Lower | Upper |        |
| 76        | 100   |       |        |
| 44        | 27.6  | 14.8  | 22.2#  |
| 78        | 9.5   | 7.8   | 11.8   |

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#28

Methyl tert-Butyl Ether

Concen: 1.097 ppbv

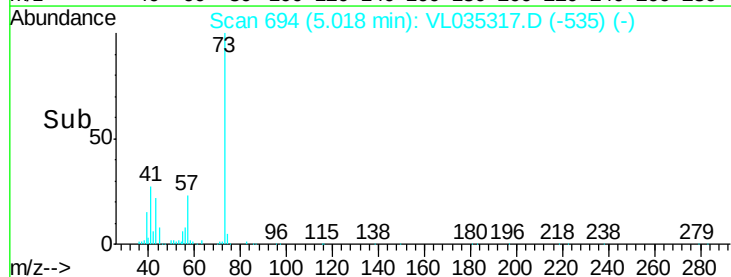
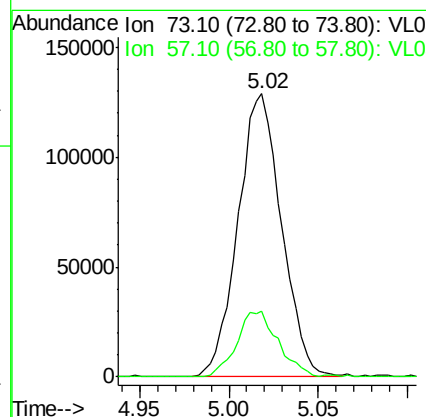
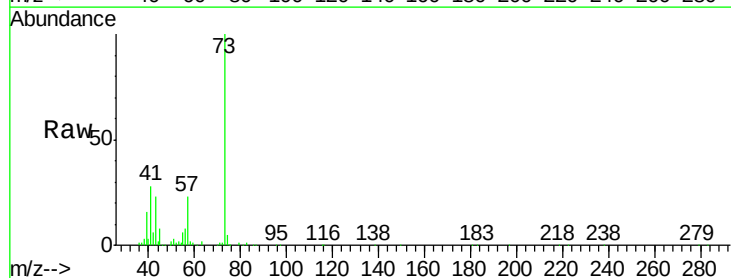
RT: 5.02 min Scan# 694

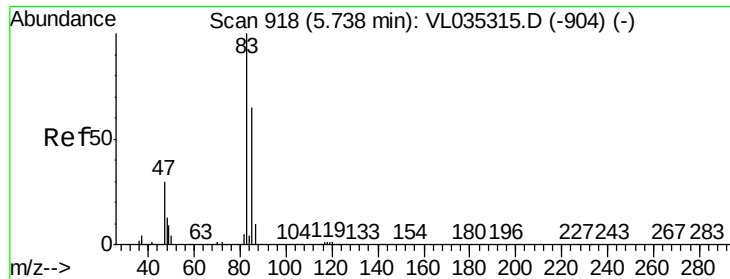
Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 73    | Resp: | 220313 |
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 57        | 22.5  | 18.2  | 27.2   |





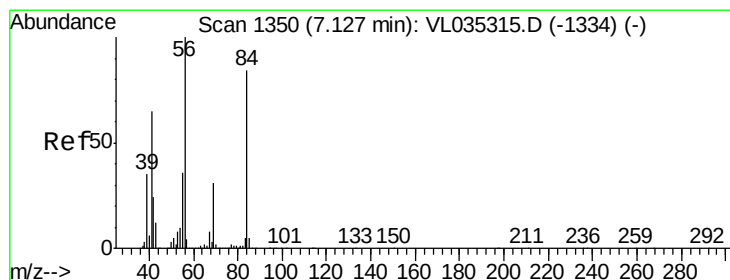
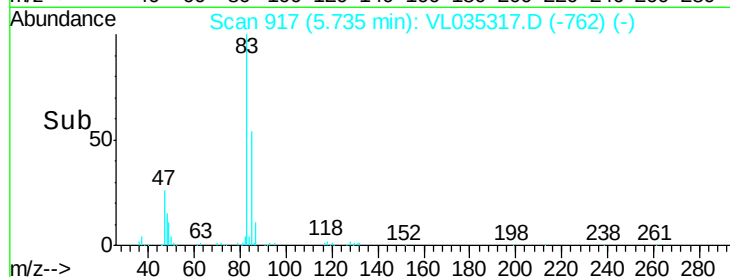
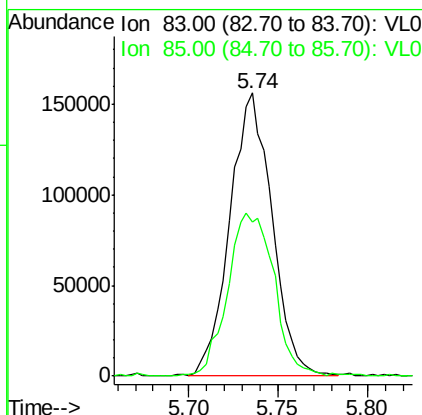
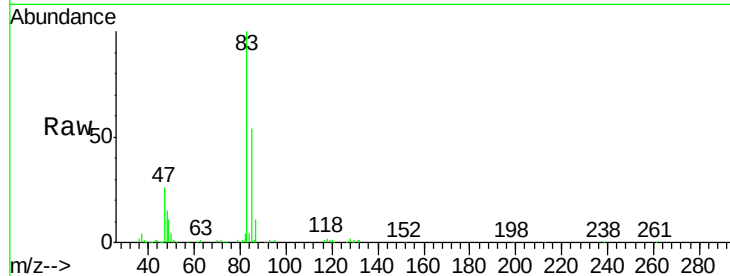
#29  
Chloroform  
Concen: 1.079 ppbv  
RT: 5.74 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion   | 83    | Resp  | 254253 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 54.2  | 51.9  | 77.9   |

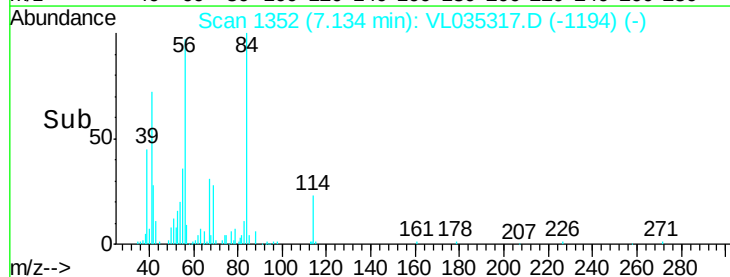
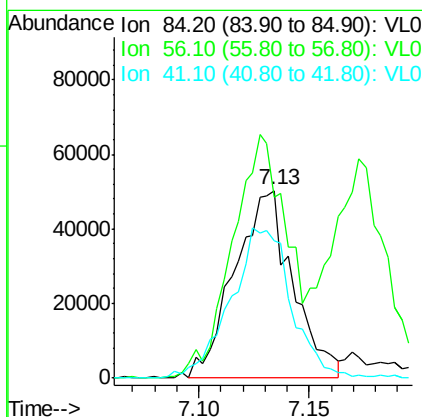
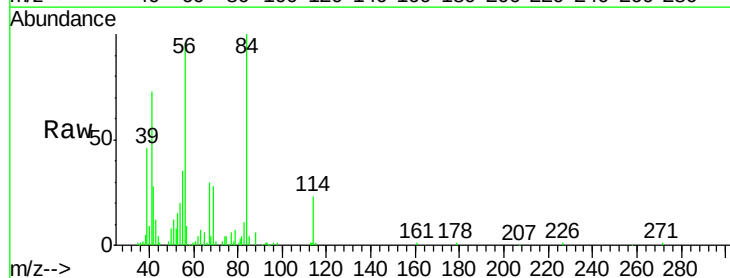
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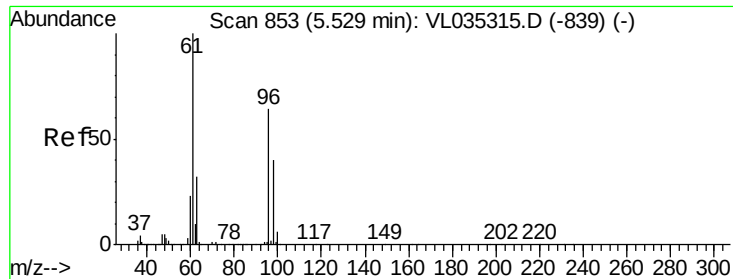
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#30  
Cyclohexane  
Concen: 0.919 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. 0.01 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

| Tgt Ion   | 84    | Resp  | 92277 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 56        | 130.5 | 103.0 | 154.6 |
| 41        | 83.8  | 62.7  | 94.1  |





#31

cis-1,2-Dichloroethene

Concen: 1.040 ppbv

RT: 5.53 min Scan# 854

Delta R.T. 0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

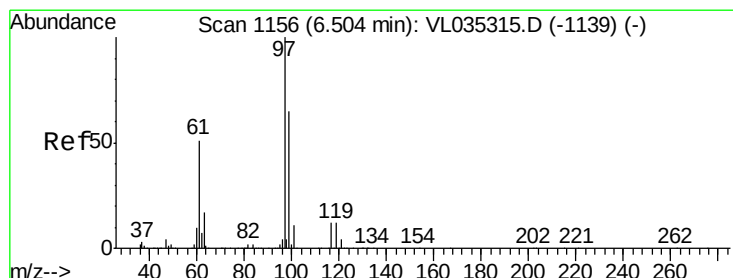
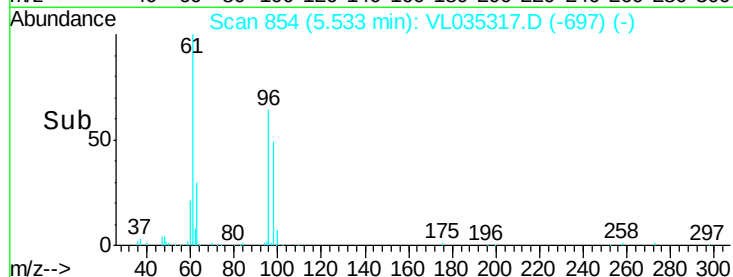
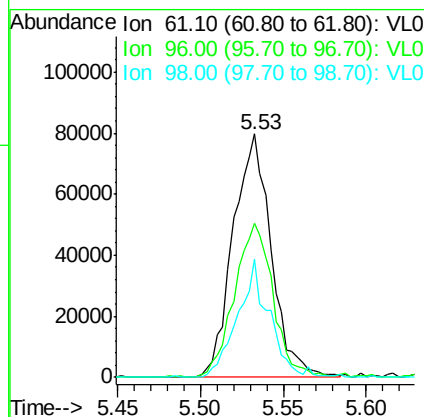
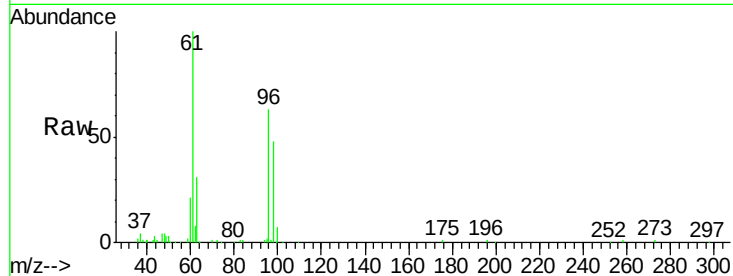
ClientSampleId :

VSTDIC001

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 61    | Resp: | 127339 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 63.1  | 51.4  | 77.2   |
| 98       | 48.5  | 32.2  | 48.4#  |

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#32

1,1,1-Trichloroethane

Concen: 1.004 ppbv m

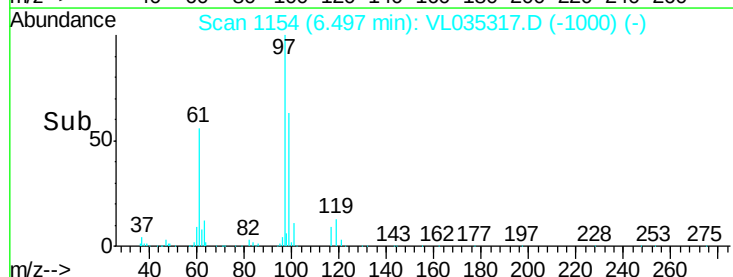
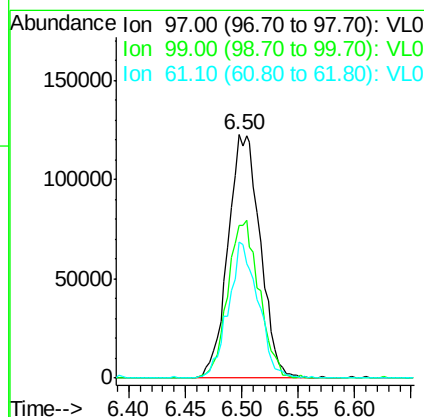
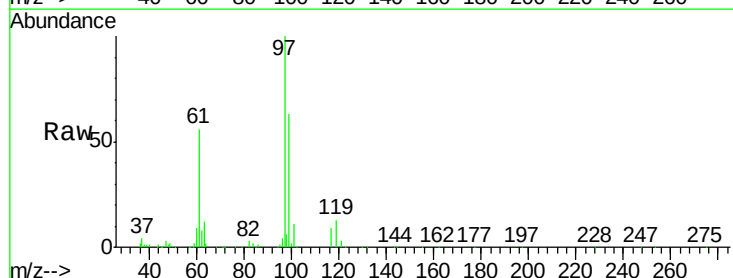
RT: 6.50 min Scan# 1154

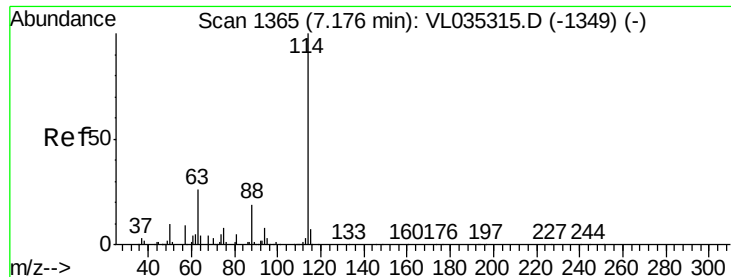
Delta R.T. -0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 242152 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 0.0   | 52.2  | 78.4#  |
| 61       | 51.4  | 40.9  | 61.3   |





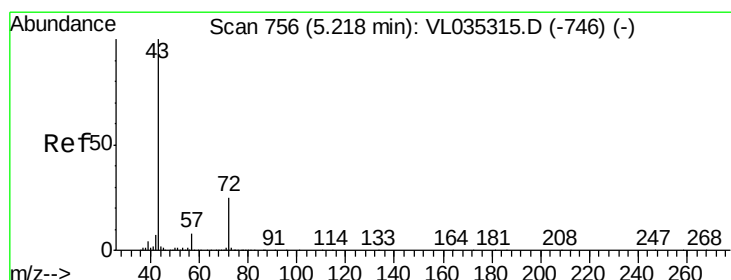
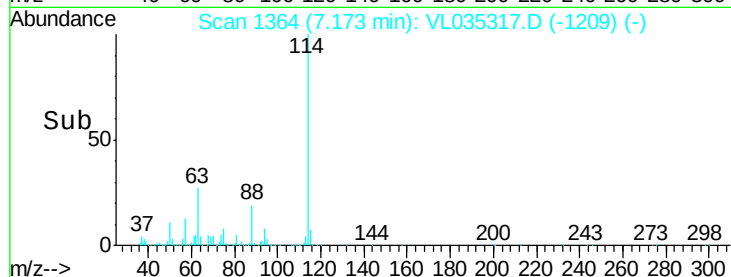
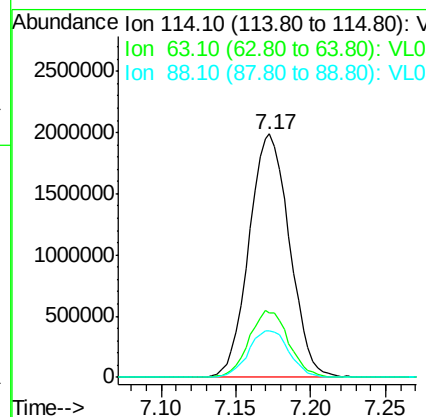
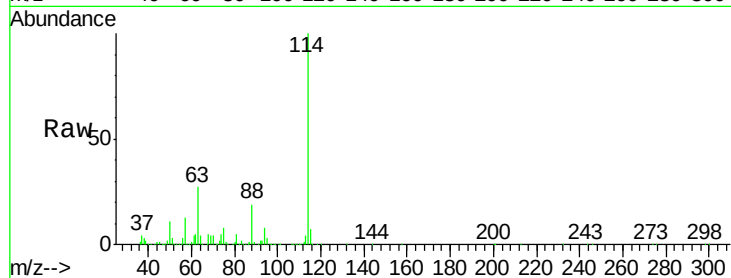
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.0  | 21.5  | 32.3  |
| 88      | 19.3  | 15.3  | 22.9  |

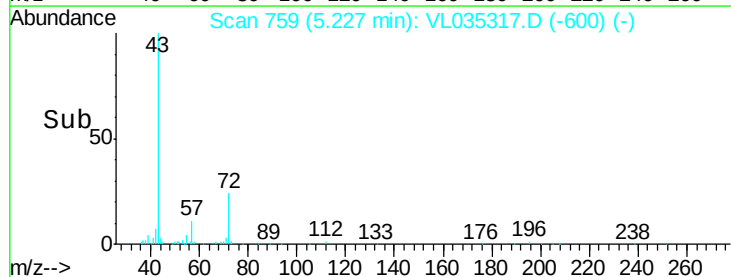
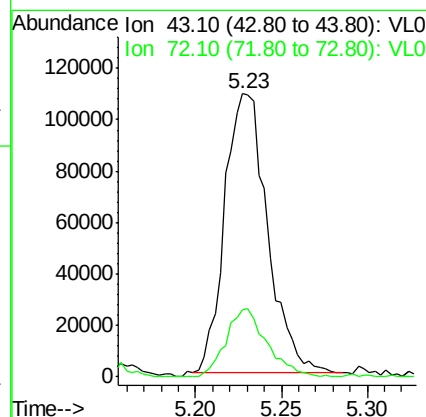
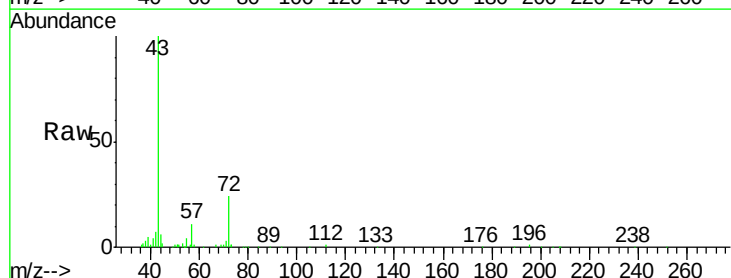
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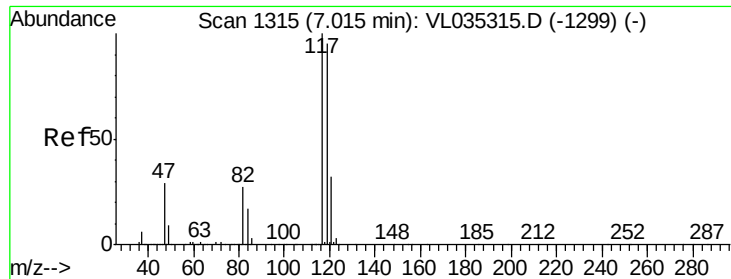
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#34  
 2-Butanone  
 Concen: 0.991 ppbv  
 RT: 5.23 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 23.8  | 19.2  | 28.8  |





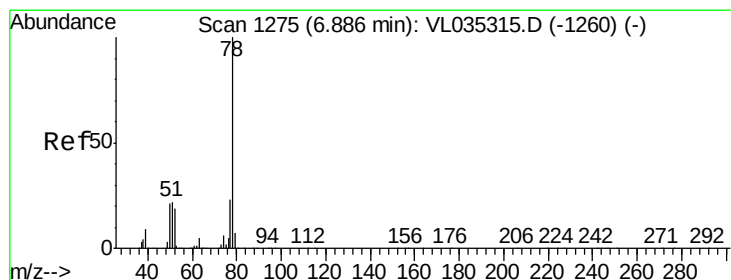
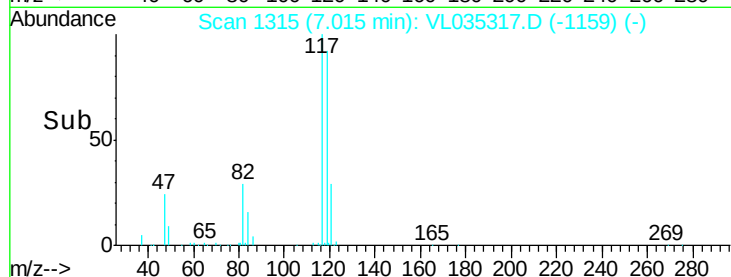
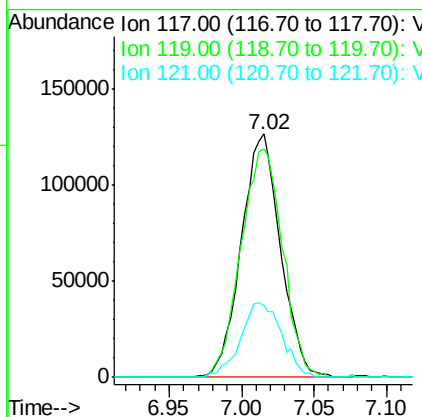
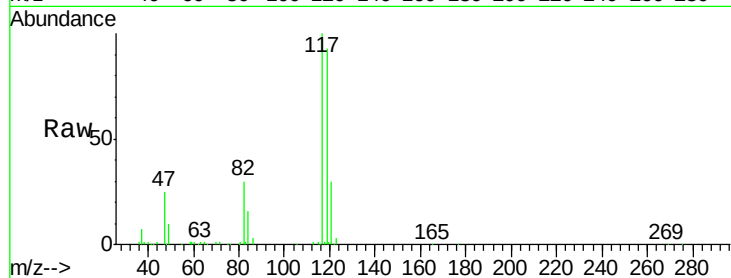
#35  
Carbon Tetrachloride  
Concen: 0.954 ppbv  
RT: 7.02 min Scan# 1315  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 94.4  | 76.1  | 114.1 |
| 121     | 29.6  | 25.6  | 38.4  |

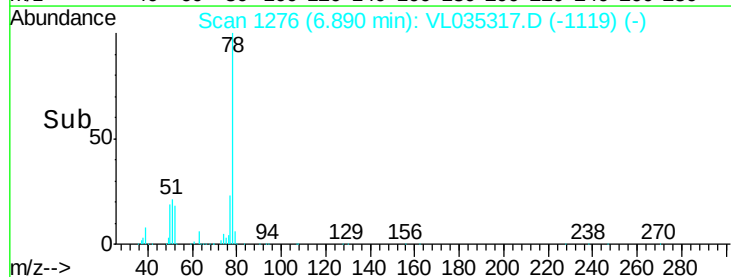
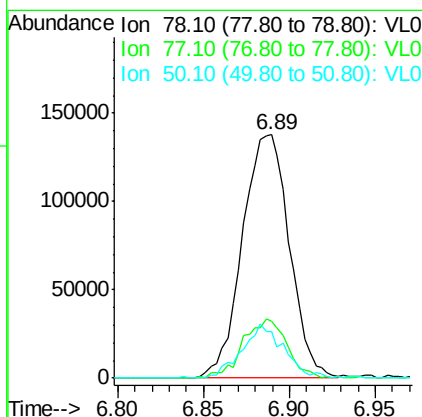
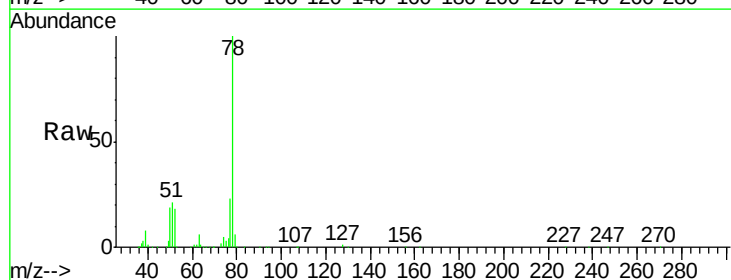
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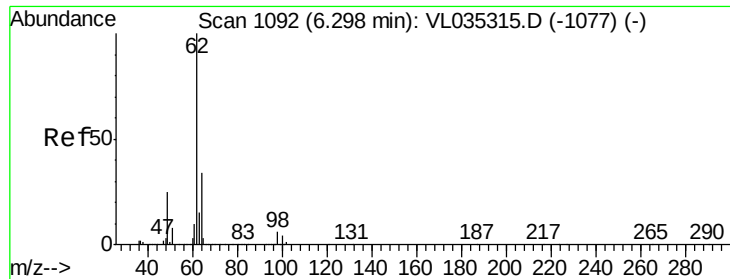
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#36  
Benzene  
Concen: 1.006 ppbv  
RT: 6.89 min Scan# 1276  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.5  | 18.4  | 27.6  |
| 50      | 19.0  | 16.6  | 25.0  |





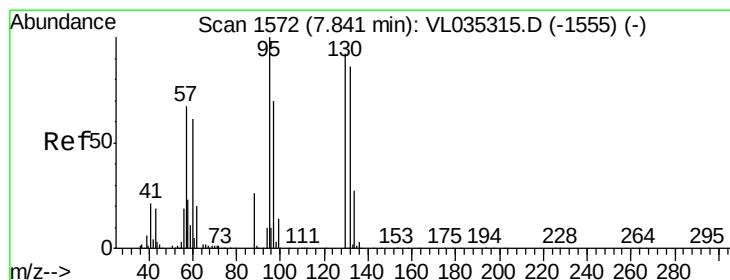
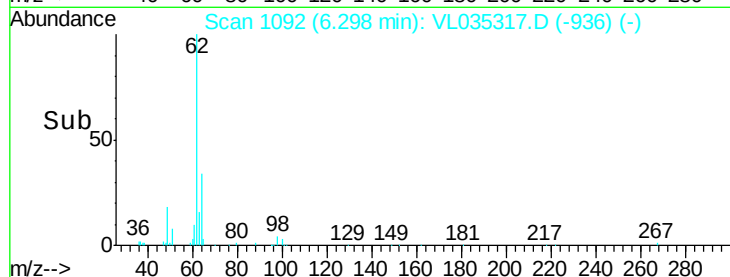
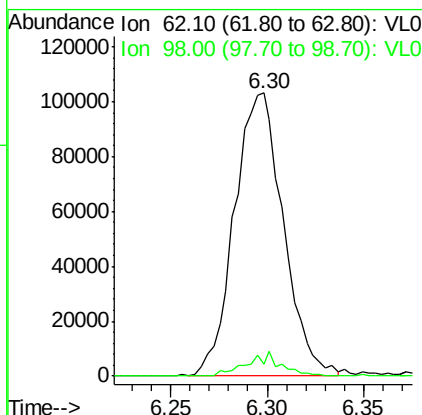
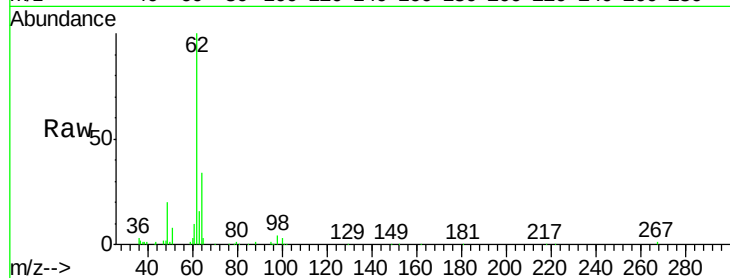
#37  
 1,2-Dichloroethane  
 Concen: 0.990 ppbv  
 RT: 6.30 min Scan# 1092  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 62      | 100   | 179832 |       |       |
| 98      | 5.9   | 4.6    | 7.0   |       |

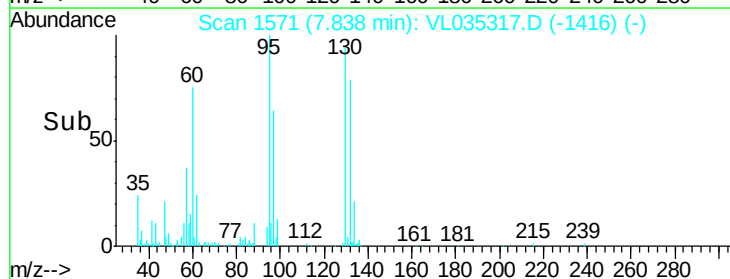
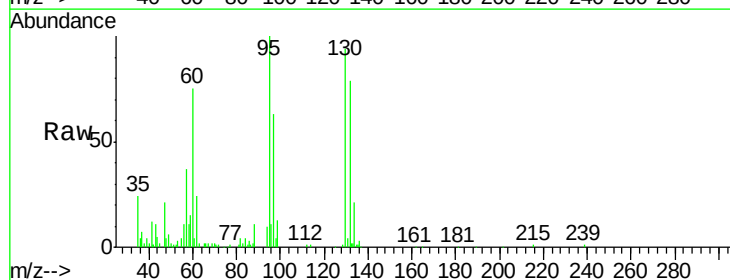
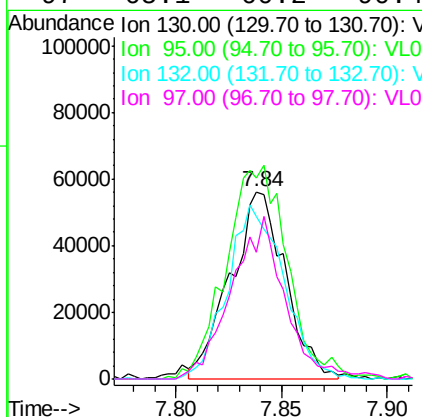
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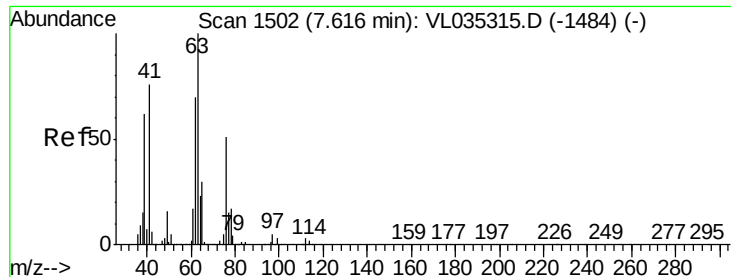
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#38  
 Trichloroethene  
 Concen: 0.939 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 130     | 100   | 101096 |       |       |
| 95      | 105.1 | 86.3   | 129.5 |       |
| 132     | 87.4  | 74.2   | 111.2 |       |
| 97      | 65.1  | 60.2   | 90.4  |       |





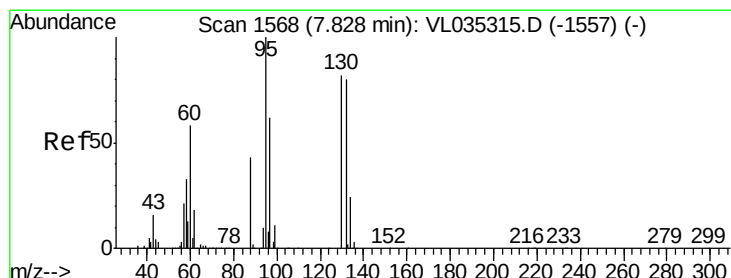
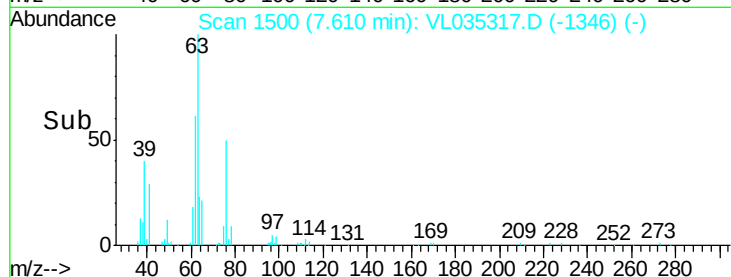
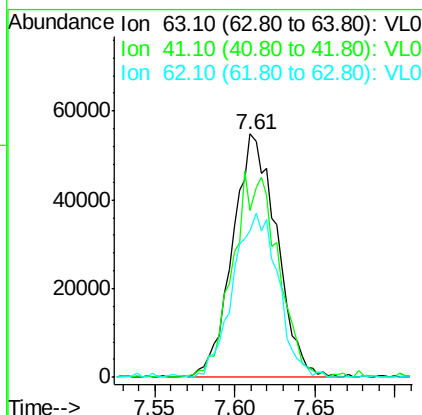
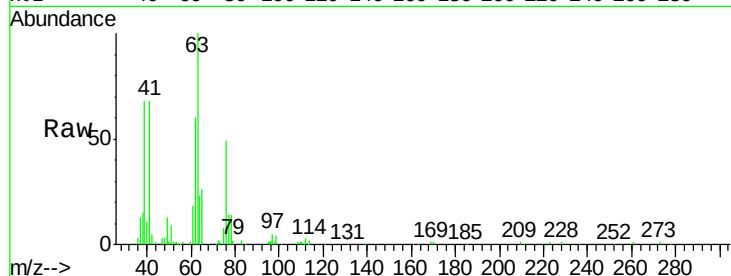
#39  
 1,2-Dichloropropane  
 Concen: 0.990 ppbv  
 RT: 7.61 min Scan# 1500  
 Delta R.T. -0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 67.8  | 61.0  | 91.4  |
| 62      | 60.2  | 55.8  | 83.8  |

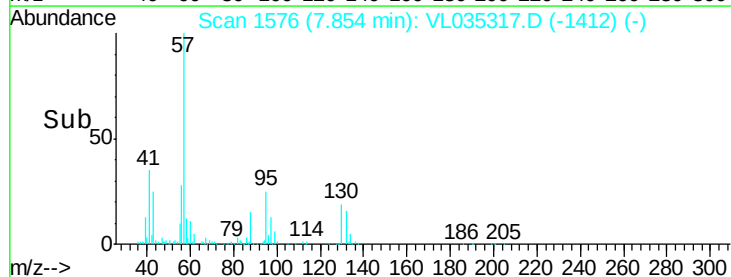
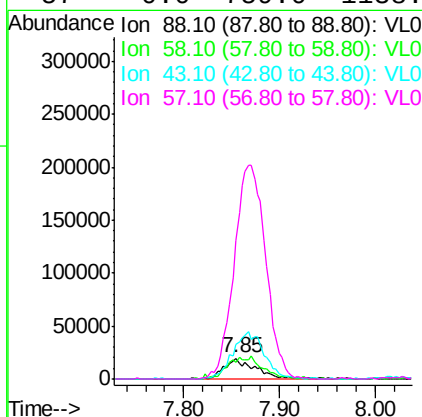
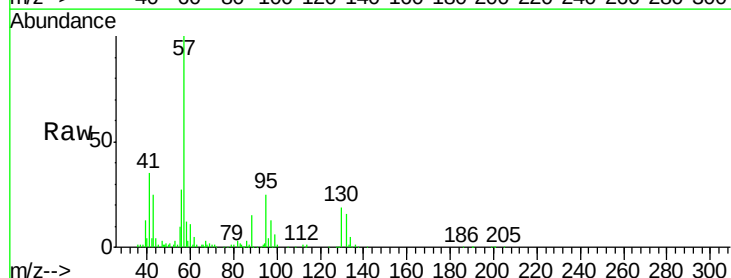
Manual Integrations  
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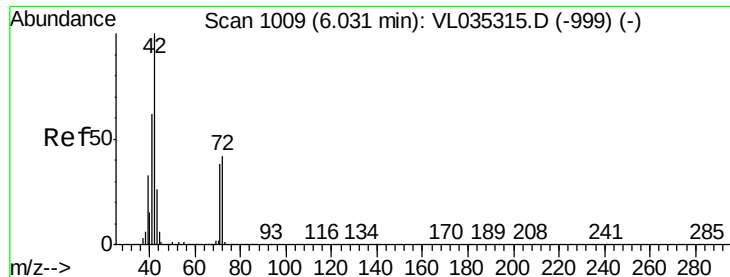
apatel  
 8/6/2020 2:44:20 PM



#40  
 1,4-Dioxane  
 Concen: 1.130 ppbv m  
 RT: 7.85 min Scan# 1576  
 Delta R.T. 0.03 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper   |
|---------|-------|-------|---------|
| 88      | 100   |       |         |
| 58      | 0.0   | 95.4  | 143.2#  |
| 43      | 0.0   | 172.7 | 259.1#  |
| 57      | 0.0   | 759.0 | 1138.4# |





#41

Tetrahydrofuran

Concen: 0.950 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.02 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

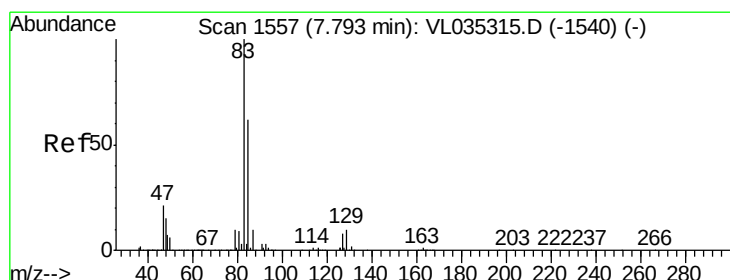
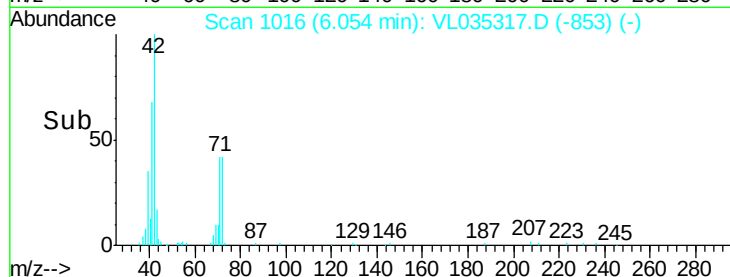
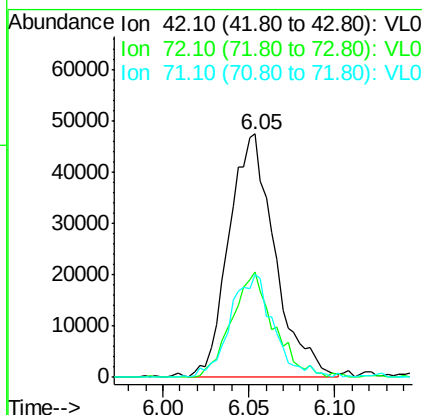
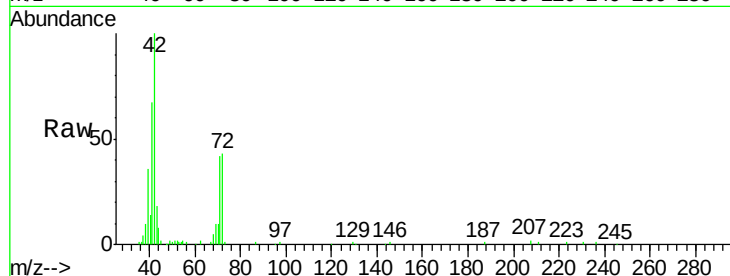
ClientSampleId :

VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 88550 |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 40.7  | 33.8  | 50.8  |
| 71       | 39.9  | 32.7  | 49.1  |

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#42

Bromodichloromethane

Concen: 1.016 ppbv

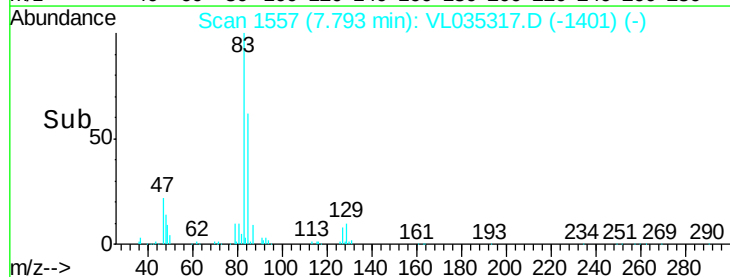
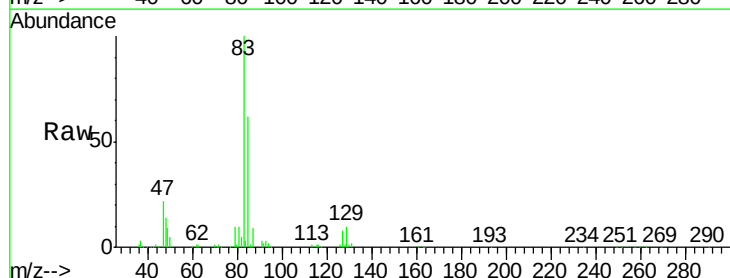
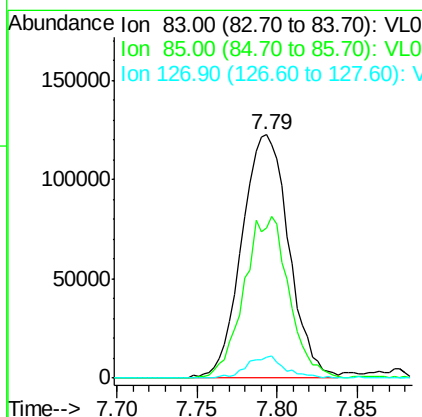
RT: 7.79 min Scan# 1557

Delta R.T. 0.00 min

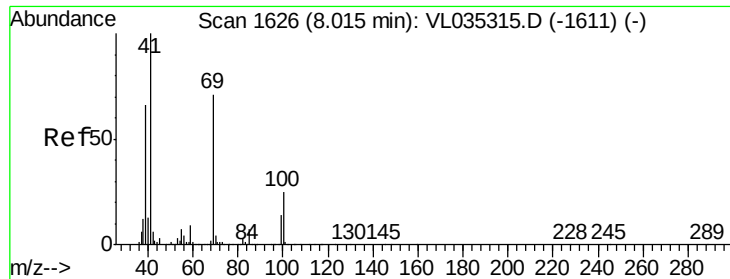
Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 246350 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 61.9  | 49.9  | 74.9   |
| 127      | 8.3   | 6.6   | 10.0   |







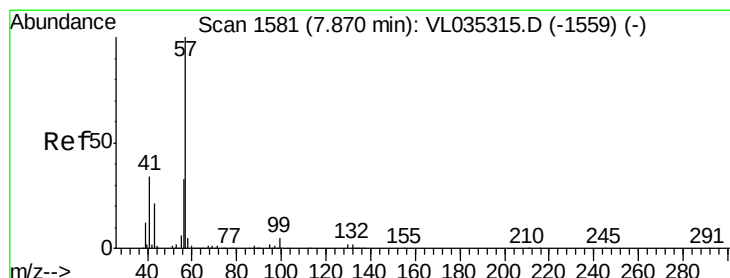
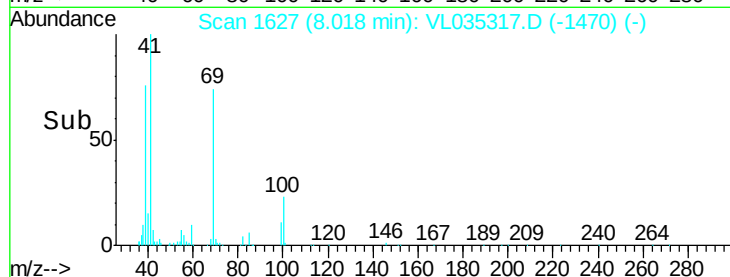
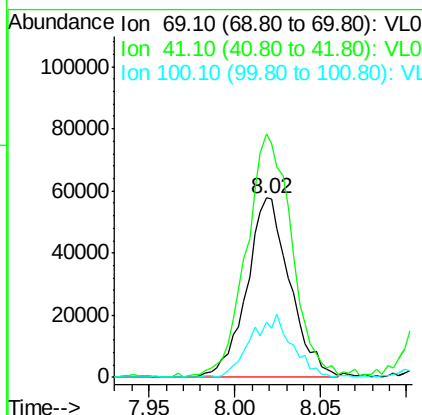
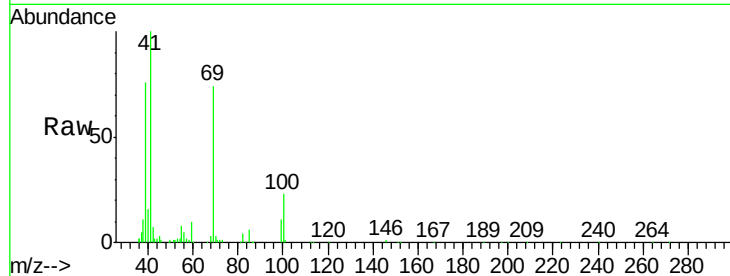
#43  
Methyl Methacrylate  
Concen: 0.893 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 144.6 | 110.9 | 166.3 |
| 100     | 33.8  | 26.0  | 39.0  |

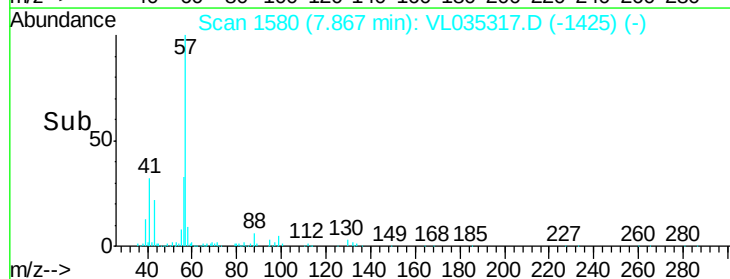
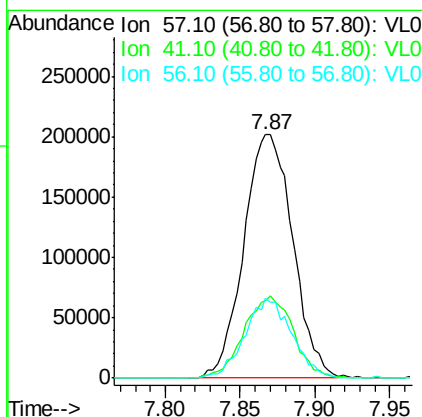
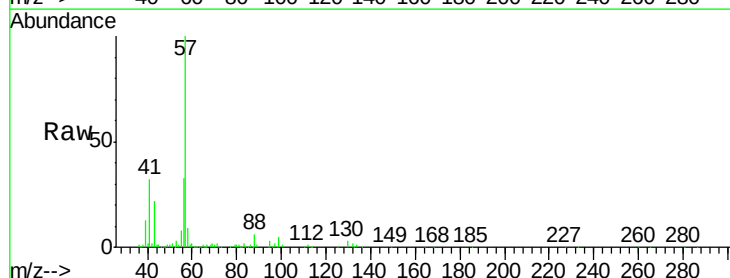
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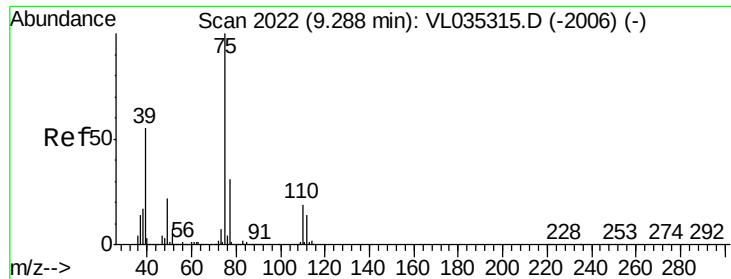
apatel  
8/6/2020 2:44:20 PM



#44  
2,2,4-Trimethylpentane  
Concen: 1.000 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 34.2  | 26.7  | 40.1  |
| 56      | 31.6  | 25.4  | 38.0  |





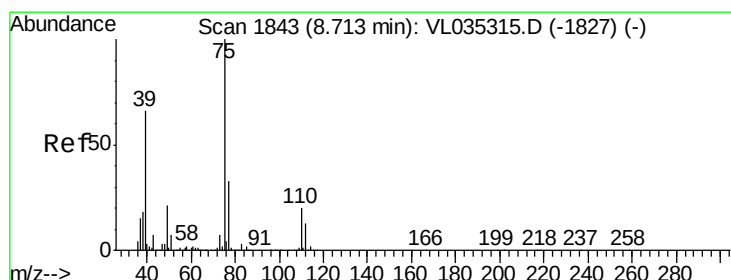
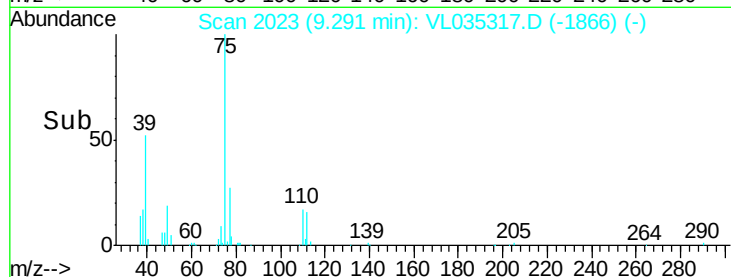
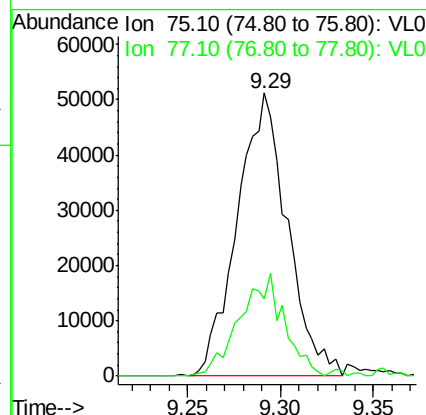
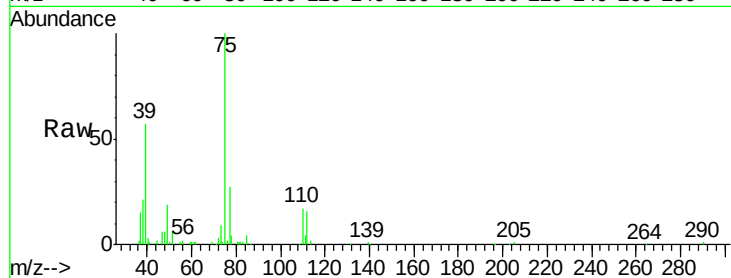
#45  
t-1,3-Dichloropropene  
Concen: 0.846 ppbv  
RT: 9.29 min Scan# 2023  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tot Ion: 75 Resp: 95934  
Ion Ratio Lower Upper  
75 100  
77 26.7 24.6 37.0

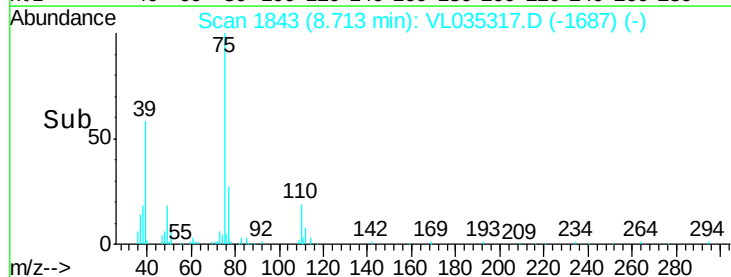
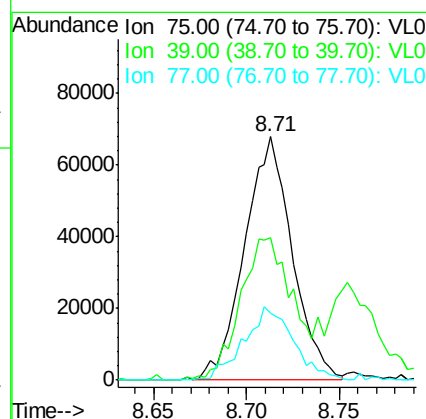
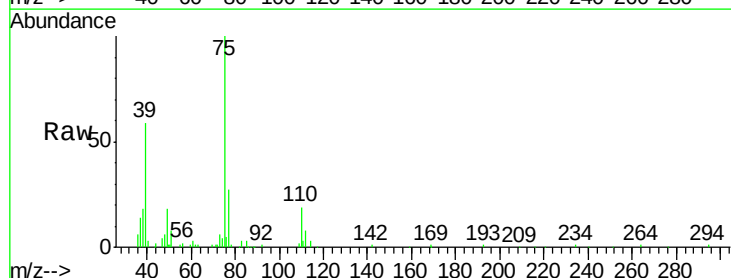
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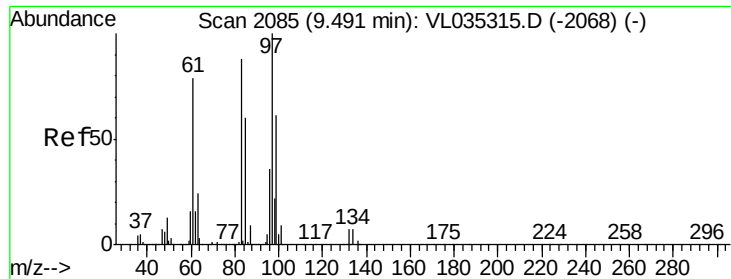
apatel  
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#46  
cis-1,3-Dichloropropene  
Concen: 0.881 ppbv  
RT: 8.71 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Tgt Ion: 75 Resp: 121739  
Ion Ratio Lower Upper  
75 100  
39 57.7 52.6 79.0  
77 27.5 26.5 39.7





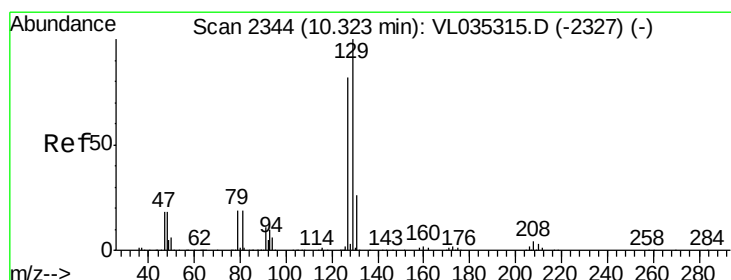
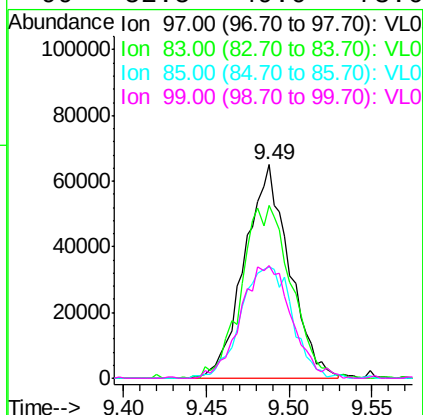
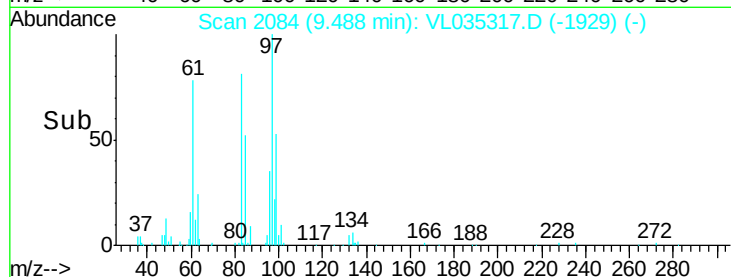
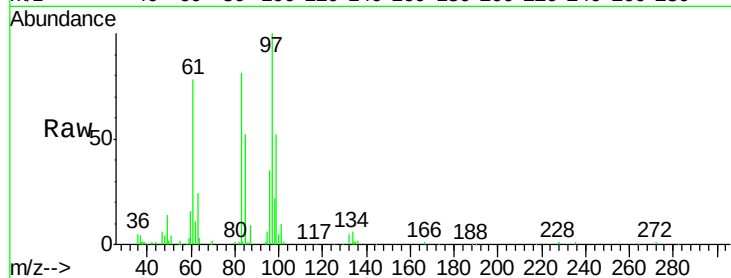
#47  
 1,1,2-Trichloroethane  
 Concen: 0.994 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 80.4 | 70.6  | 105.8 |       |
| 85      | 52.3 | 47.8  | 71.8  |       |
| 99      | 52.5 | 49.0  | 73.6  |       |

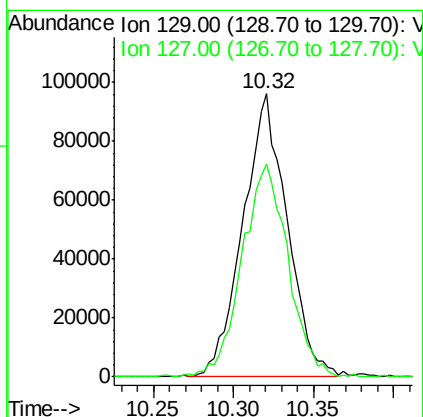
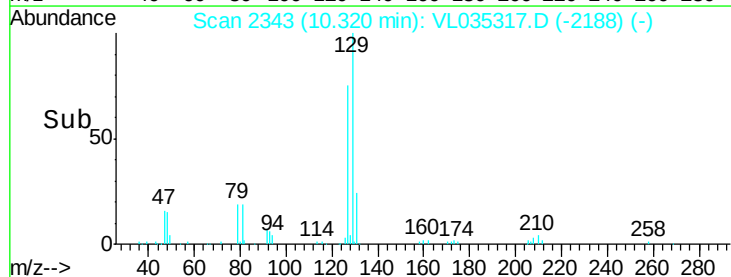
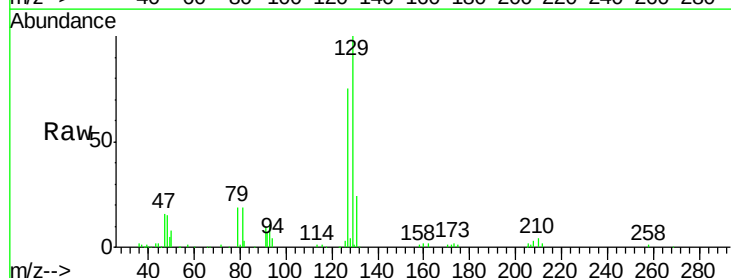
Manual Integrations  
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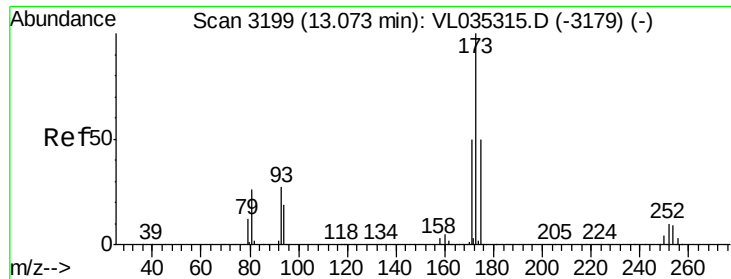
apatel  
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#48  
 Dibromochloromethane  
 Concen: 0.944 ppbv  
 RT: 10.32 min Scan# 2343  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 129     | 100  |       |       |       |
| 127     | 78.3 | 39.0  | 117.0 |       |





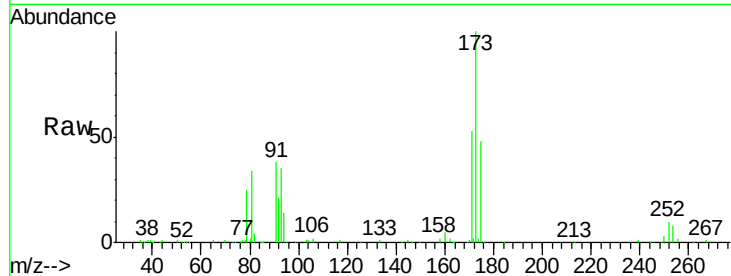
#49  
Bromoform  
Concen: 0.905 ppbv  
RT: 13.07 min Scan# 3197  
Delta R.T. -0.01 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 49.3  | 39.8  | 59.6  |
| 171     | 53.7  | 42.0  | 63.0  |

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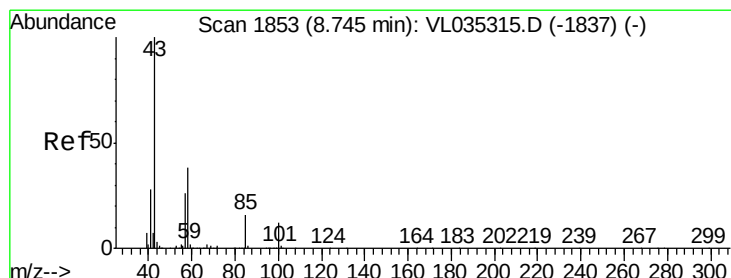
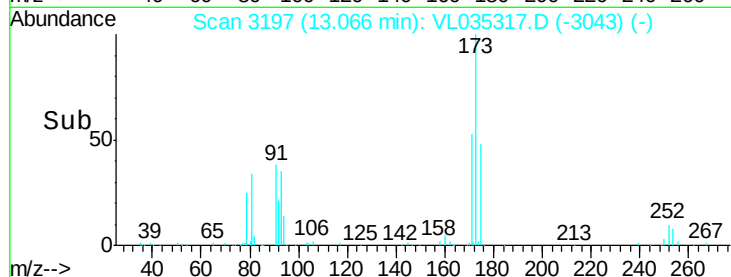
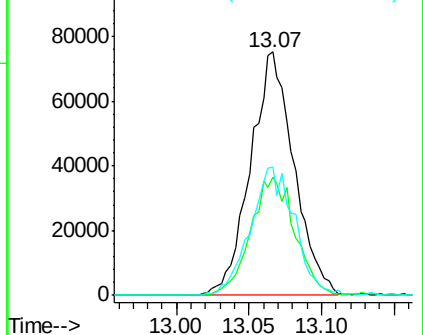


Abundance

Ion 172.90 (172.60 to 173.60): V

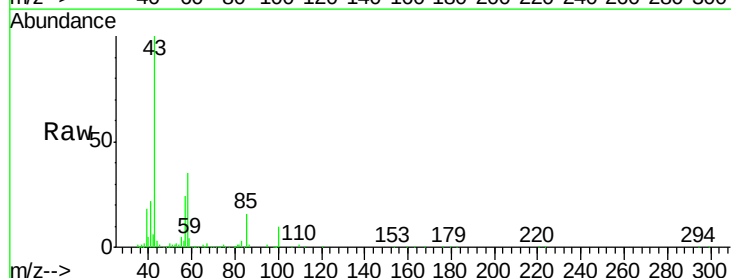
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50  
4-Methyl-2-Pentanone  
Concen: 0.942 ppbv  
RT: 8.76 min Scan# 1857  
Delta R.T. 0.01 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

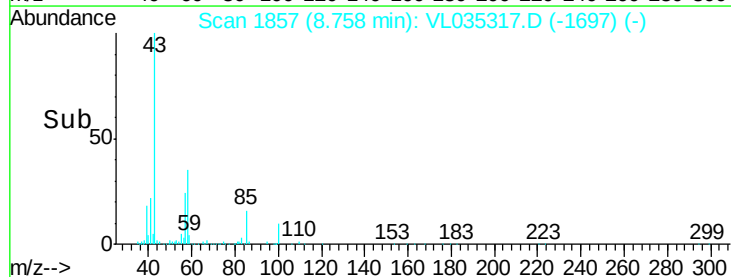
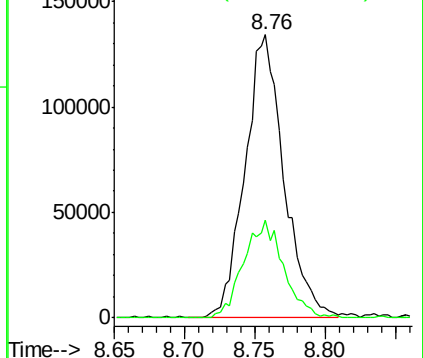
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 35.2  | 29.8  | 44.6  |

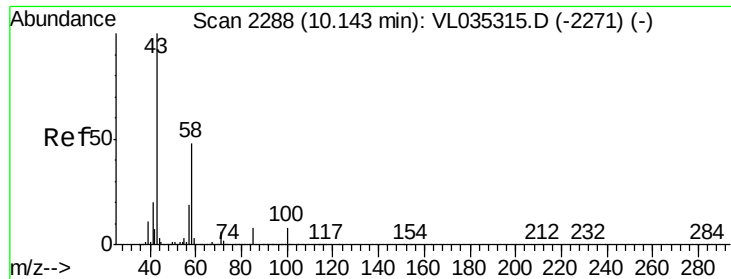


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.884 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. 0.02 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

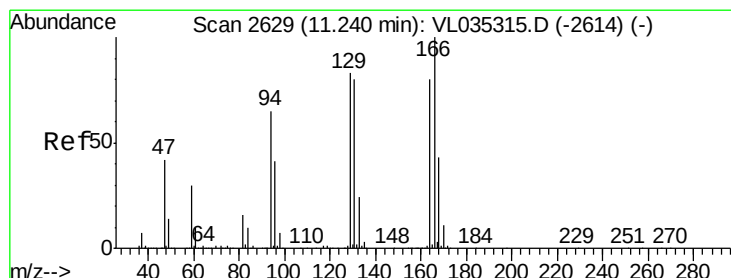
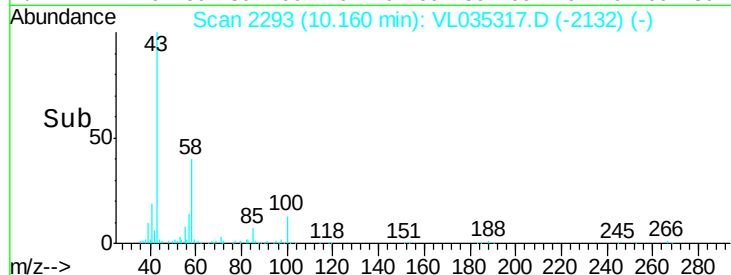
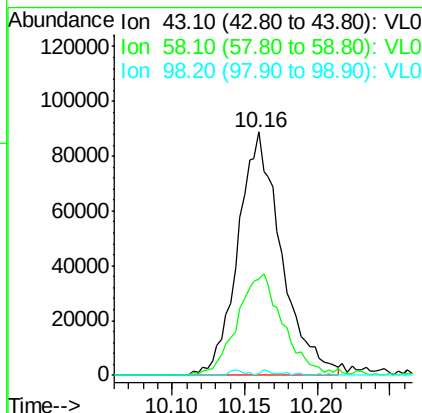
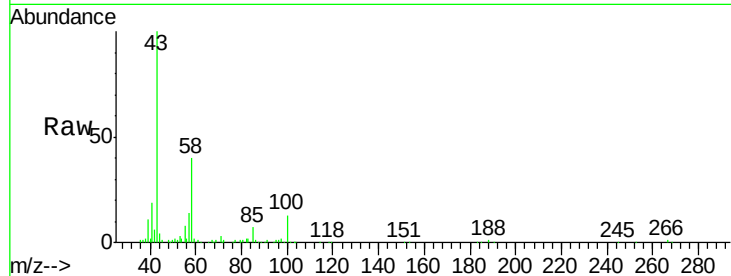
ClientSampleId :

VSTDIC001

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 43   | Resp: | 184794 |
| Ion Ratio |      | Lower | Upper  |
| 43        | 100  |       |        |
| 58        | 45.2 | 39.8  | 59.6   |
| 98        | 0.8  | 0.3   | 0.5#   |

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#52

Tetrachloroethene

Concen: 1.006 ppbv m

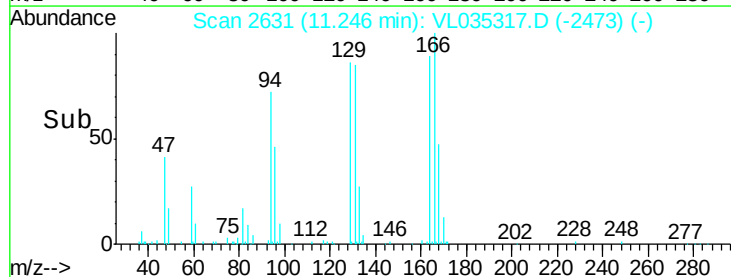
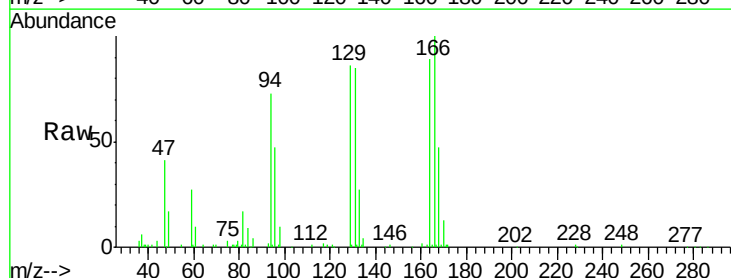
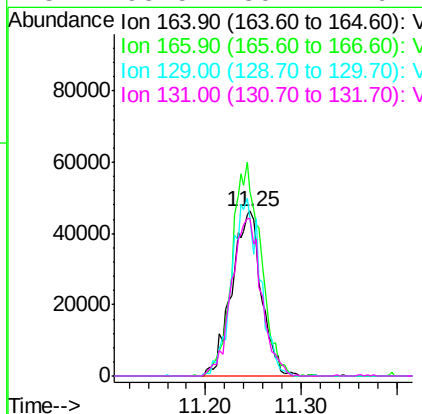
RT: 11.25 min Scan# 2631

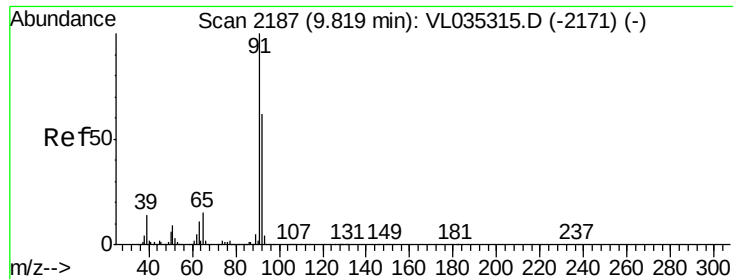
Delta R.T. 0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 99757 |
| Ion Ratio |       | Lower | Upper |
| 164       | 100   |       |       |
| 166       | 111.9 | 100.2 | 150.2 |
| 129       | 95.7  | 82.7  | 124.1 |
| 131       | 95.5  | 80.2  | 120.4 |





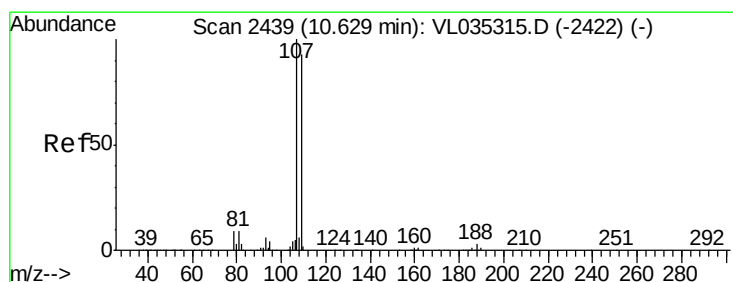
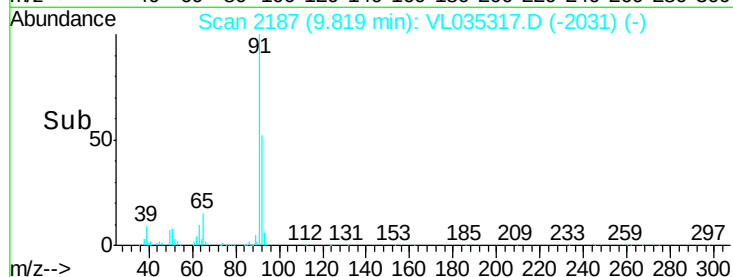
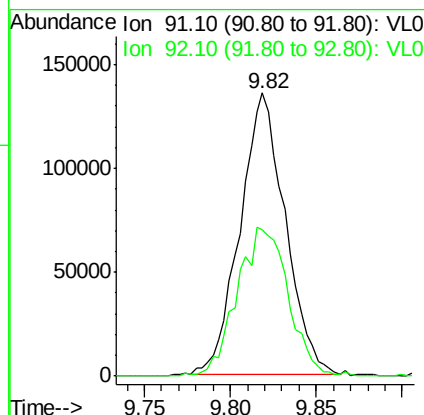
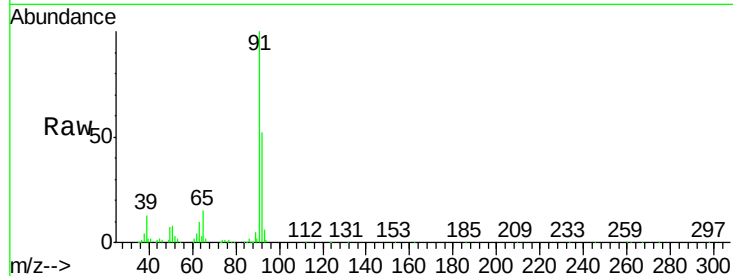
#53  
Toluene  
Concen: 0.890 ppbv  
RT: 9.82 min Scan# 2187  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tot Ion: 91 Resp: 245743  
Ion Ratio Lower Upper  
91 100  
92 60.3 48.7 73.1

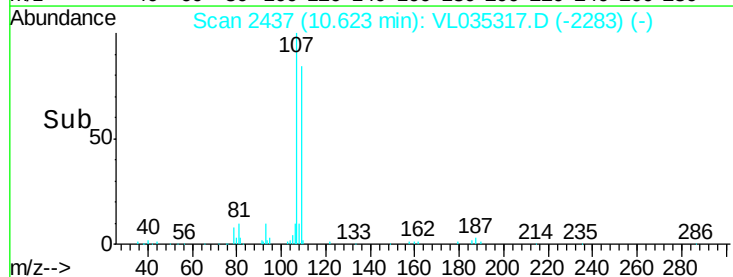
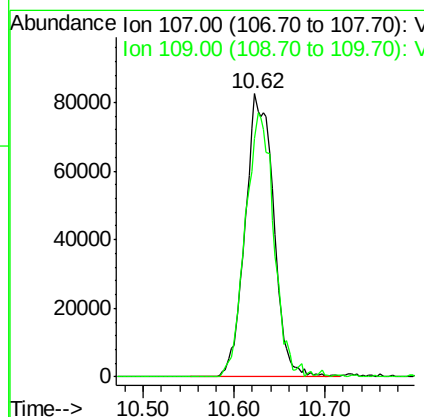
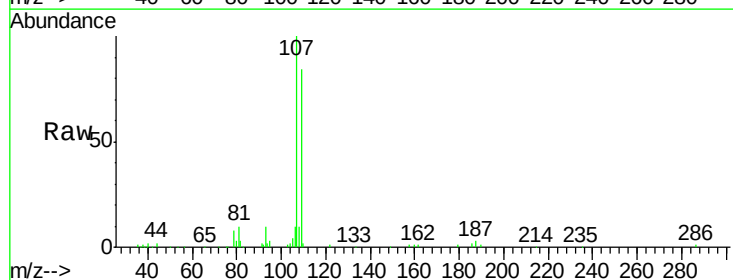
Manual Integrations  
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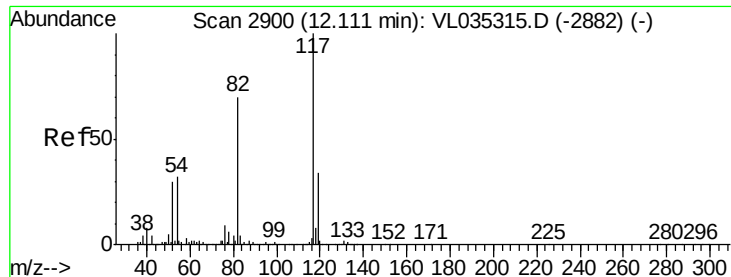
apatel  
8/6/2020 2:44:20 PM



#54  
1,2-Dibromoethane  
Concen: 1.008 ppbv m  
RT: 10.62 min Scan# 2437  
Delta R.T. -0.01 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Tgt Ion: 107 Resp: 178476  
Ion Ratio Lower Upper  
107 100  
109 84.3 74.4 111.6





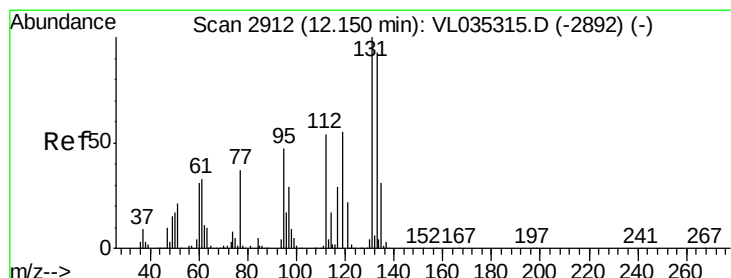
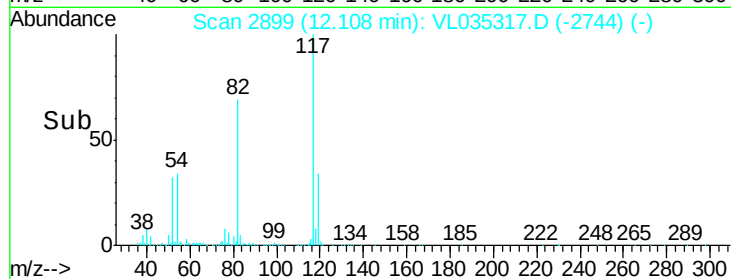
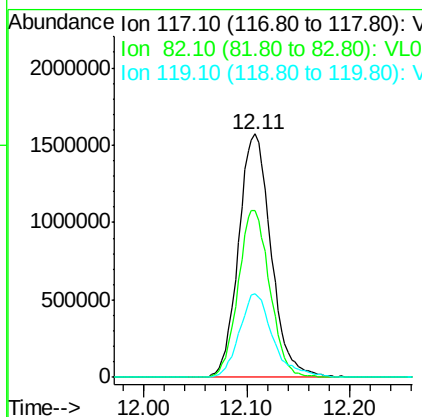
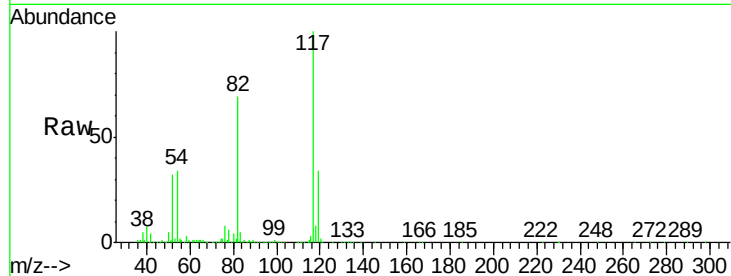
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min Scan# 2899  
Delta R.T. -0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 66.8  | 50.6  | 76.0  |
| 119     | 35.5  | 24.1  | 36.1  |

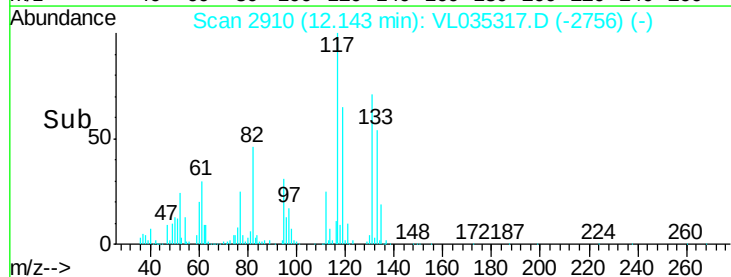
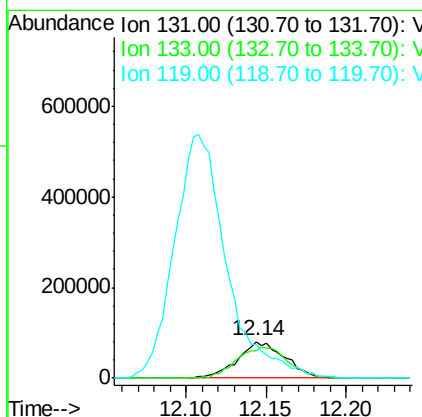
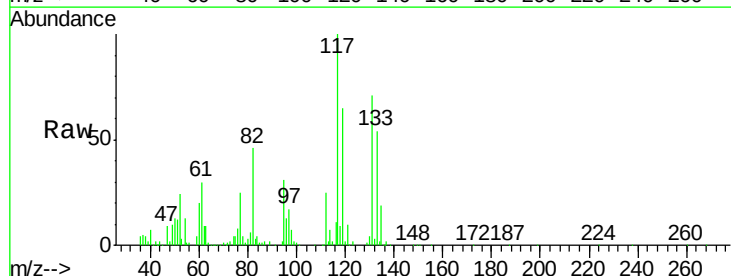
Manual Integrations  
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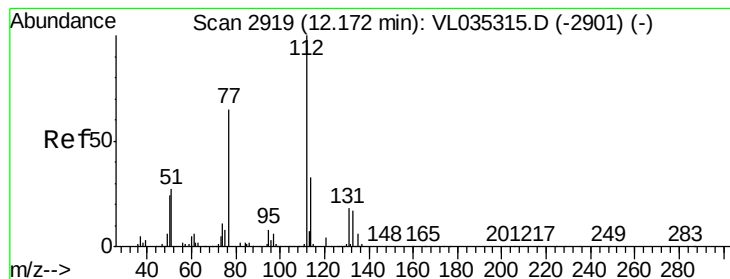
apatel  
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#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.026 ppbv  
RT: 12.14 min Scan# 2910  
Delta R.T. -0.01 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 92.8  | 75.5  | 113.3 |
| 119     | 753.3 | 53.1  | 79.7# |





#57

Chlorobenzene

Concen: 1.051 ppbv m

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

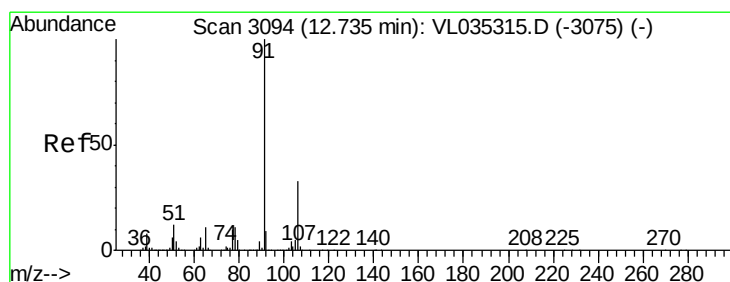
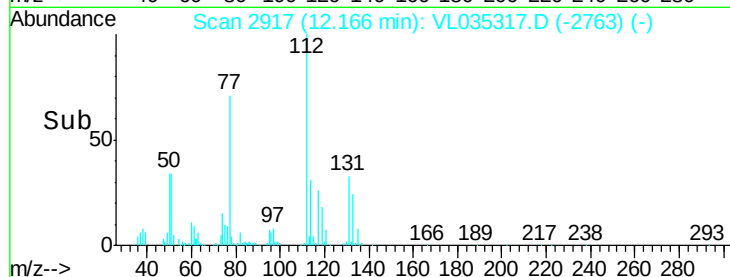
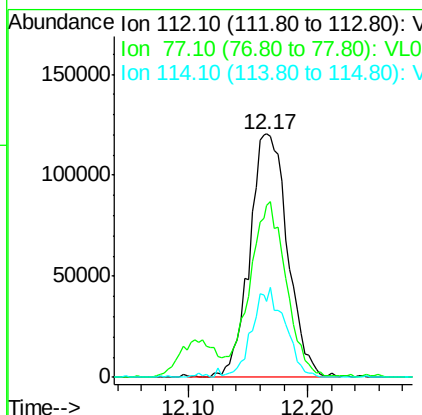
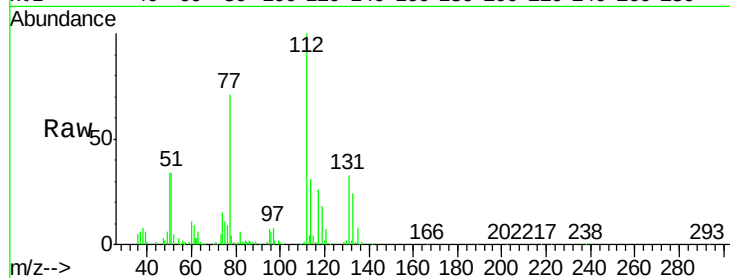
ClientSampleId :

VSTDIC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 272850 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 70.8  | 53.0  | 79.6   |
| 114       | 31.5  | 30.0  | 36.6   |

Manual Integrations  
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8/6/2020 2:44:20 PM



#58

Ethyl Benzene

Concen: 0.939 ppbv m

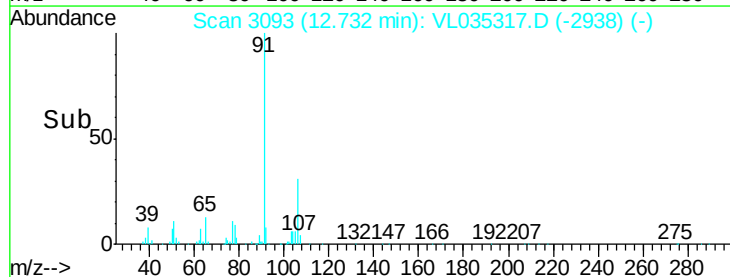
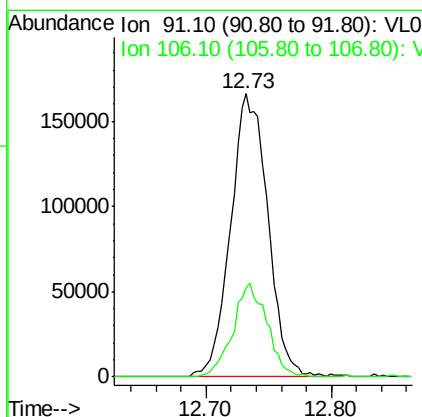
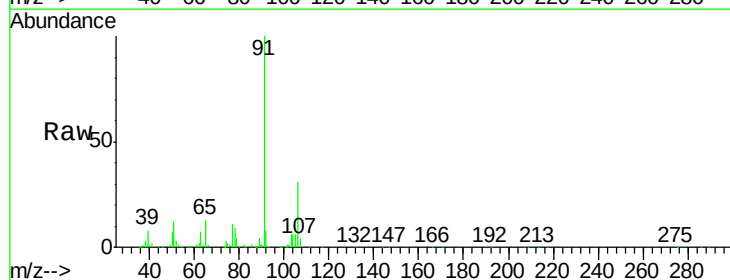
RT: 12.73 min Scan# 3093

Delta R.T. -0.00 min

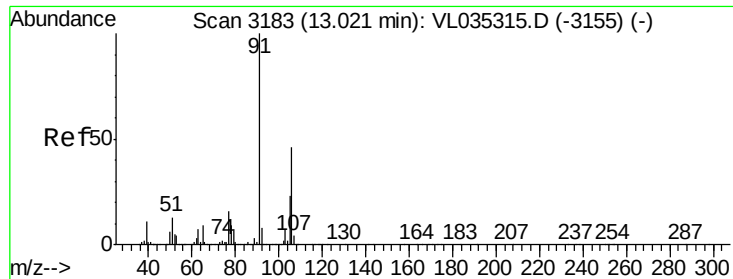
Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 343025 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 31.4  | 26.3  | 39.5   |







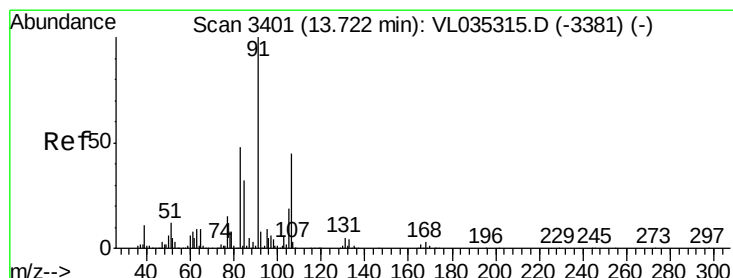
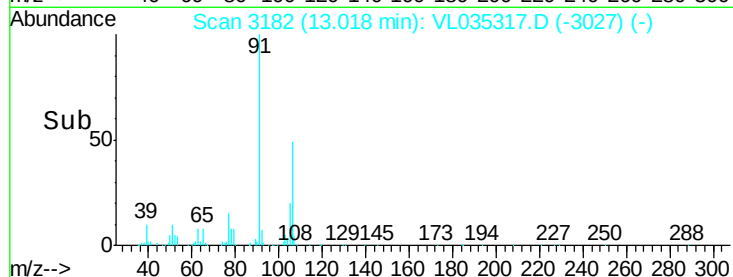
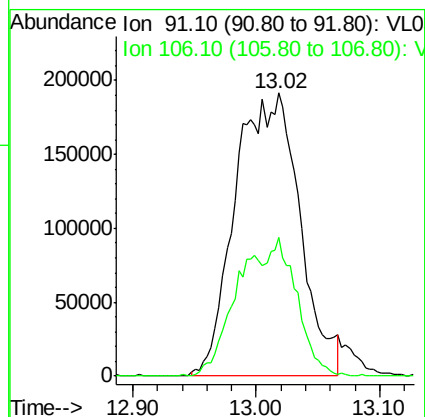
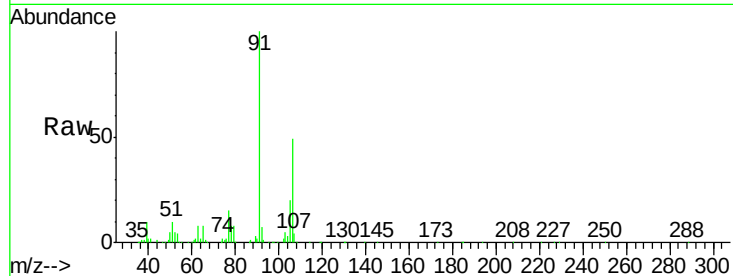
#59  
m/p-Xylene  
Concen: 2.039 ppbv m  
RT: 13.02 min Scan# 3182  
Delta R.T. -0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tot Ion: 91 Resp: 693215  
Ion Ratio Lower Upper  
91 100  
106 44.4 36.6 55.0

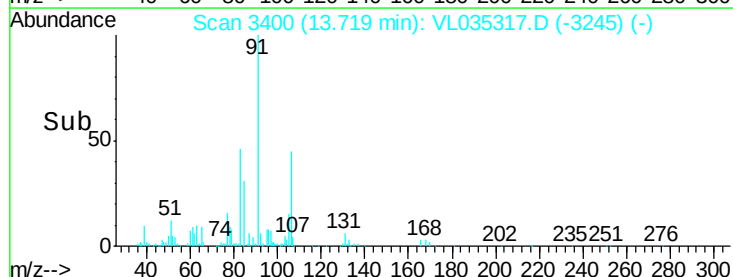
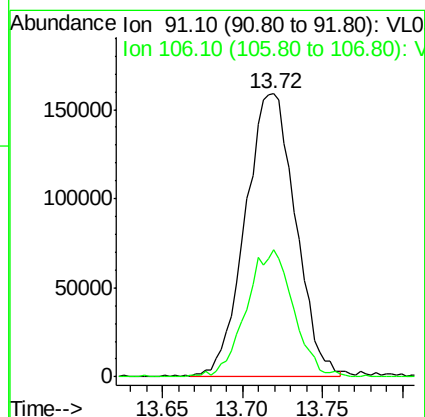
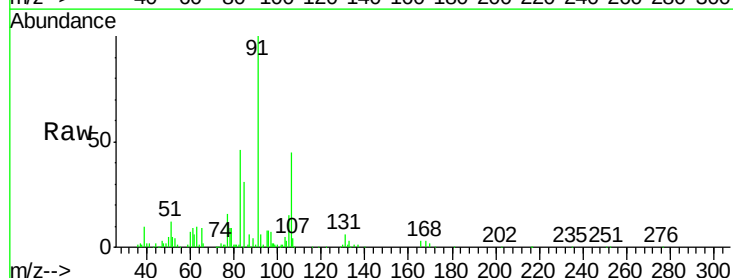
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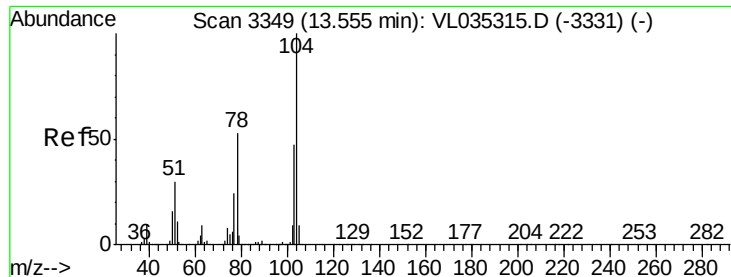
apatel  
8/6/2020 2:44:20 PM



#60  
o-Xylene  
Concen: 1.003 ppbv  
RT: 13.72 min Scan# 3400  
Delta R.T. -0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Tgt Ion: 91 Resp: 340116  
Ion Ratio Lower Upper  
91 100  
106 42.5 22.4 67.3





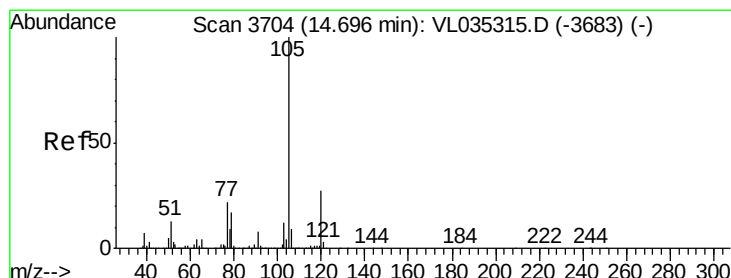
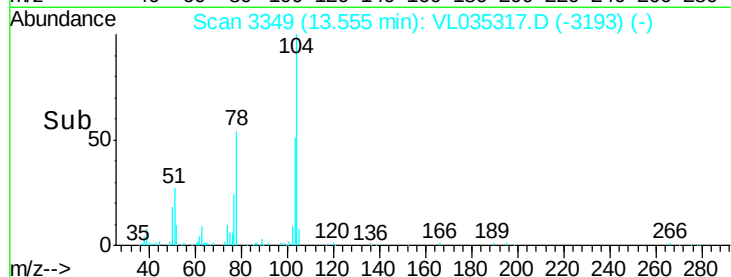
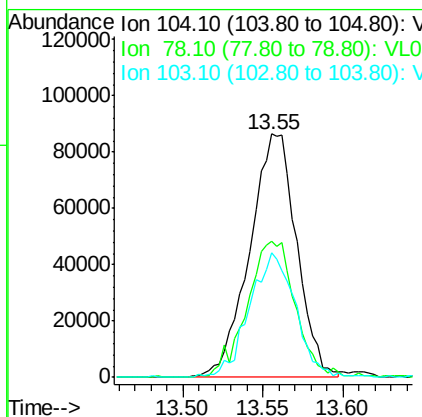
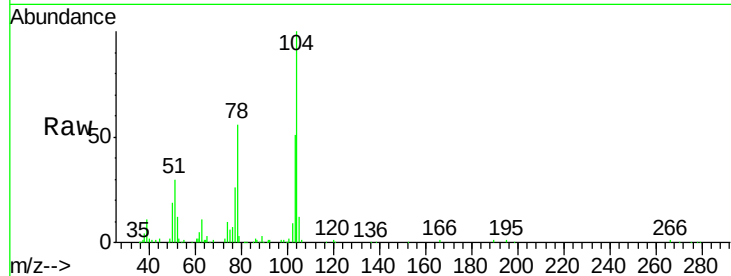
#61  
Stvrene  
Concen: 0.850 ppbv  
RT: 13.55 min Scan# 3349  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 104   | Resp: | 175020 |
| Ion Ratio | Lower | Upper |        |
| 104       | 100   |       |        |
| 78        | 57.2  | 43.1  | 64.7   |
| 103       | 50.4  | 37.6  | 56.4   |

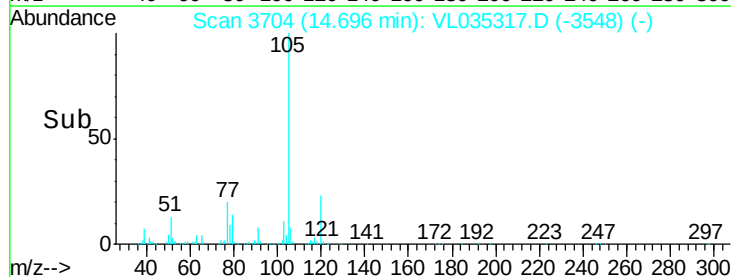
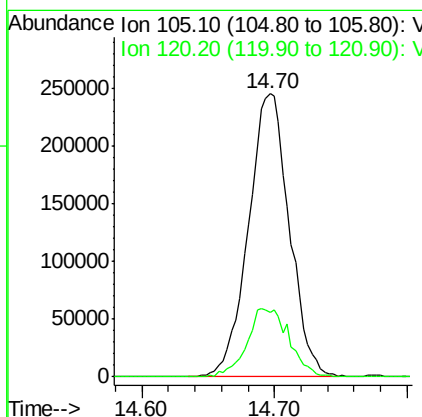
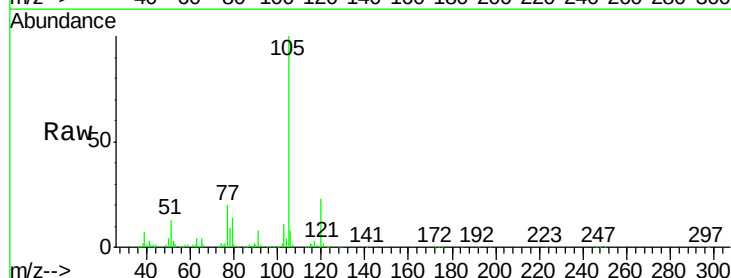
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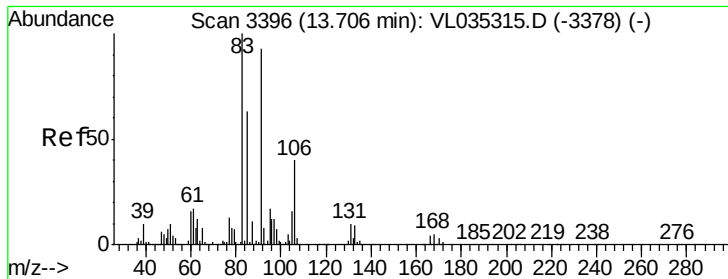
apatel  
8/6/2020 2:44:20 PM



#62  
Isopropylbenzene  
Concen: 1.042 ppbv  
RT: 14.70 min Scan# 3704  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 526085 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 24.8  | 21.0  | 31.4   |





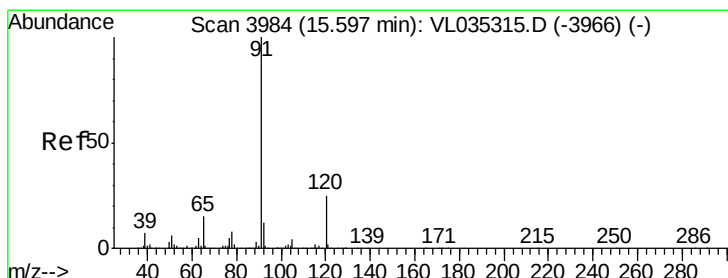
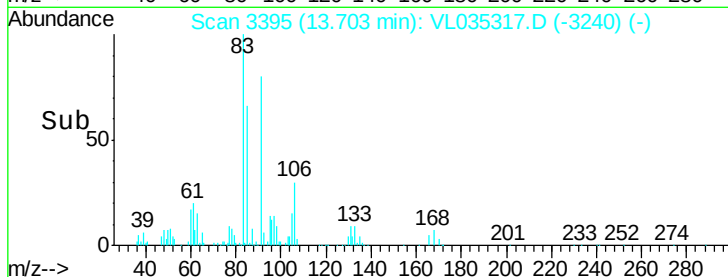
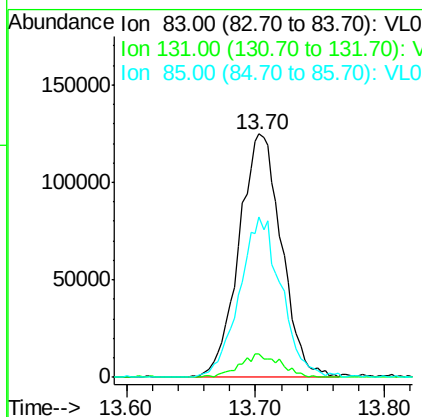
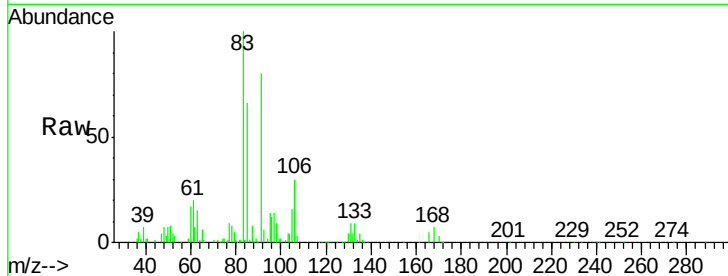
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.979 ppbv  
 RT: 13.70 min Scan# 3395  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 285762 |       |       |
| 131     | 9.3   | 4.6    | 13.8  |       |
| 85      | 65.2  | 32.6   | 97.7  |       |

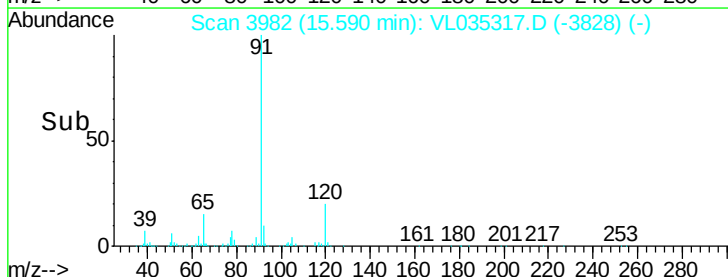
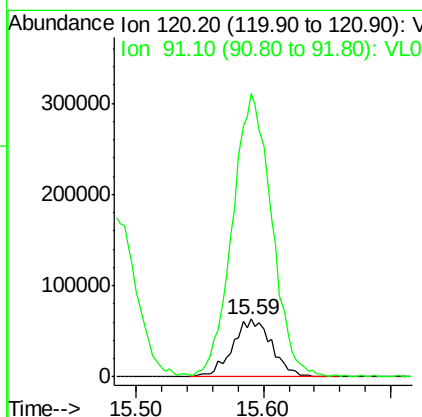
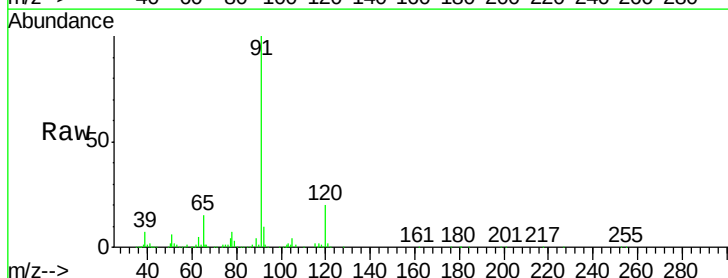
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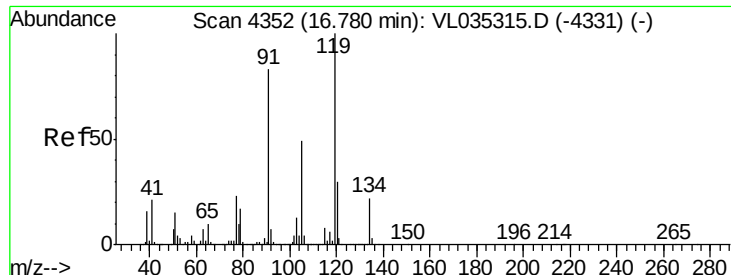
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#64  
 n-propylbenzene  
 Concen: 1.001 ppbv m  
 RT: 15.59 min Scan# 3982  
 Delta R.T. -0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 120     | 100   | 134404 |       |       |
| 91      | 492.0 | 359.3  | 538.9 |       |





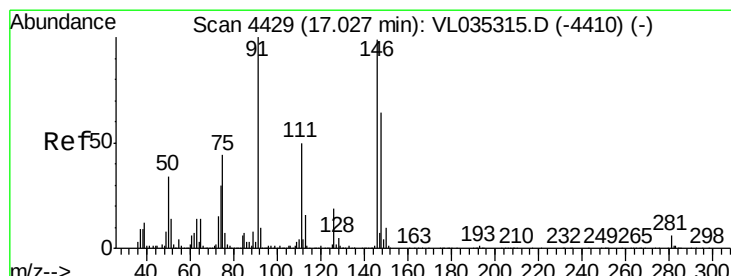
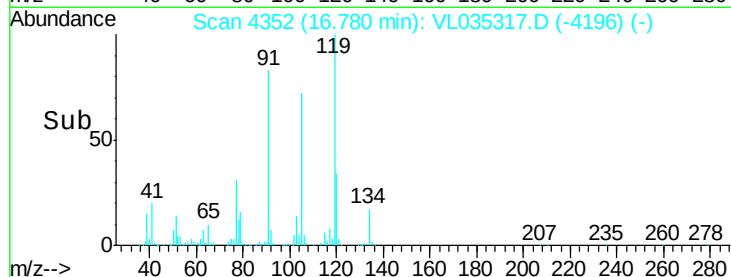
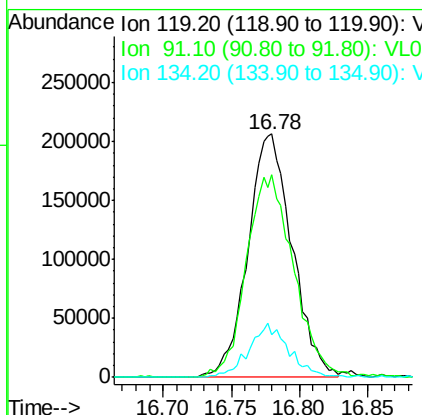
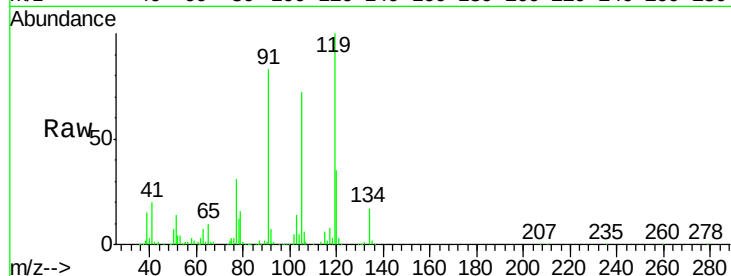
#65  
 tert-Butylbenzene  
 Concen: 1.014 ppbv  
 RT: 16.78 min Scan# 4352  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 89.4  | 67.8  | 101.8 |
| 134     | 20.1  | 16.1  | 24.1  |

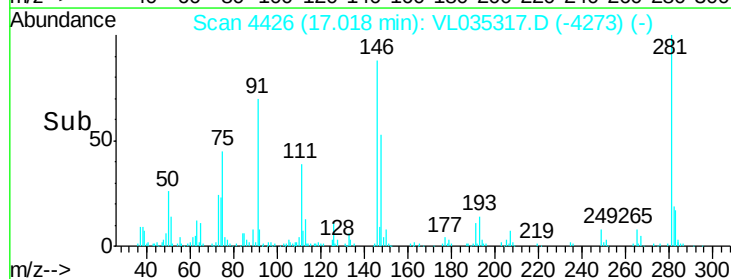
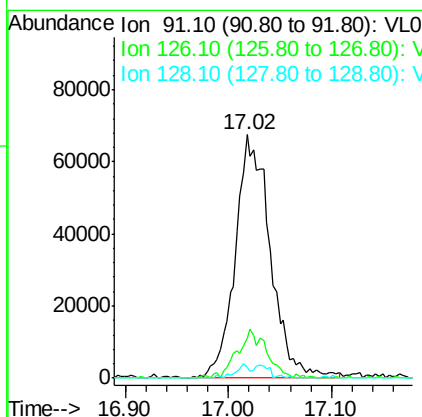
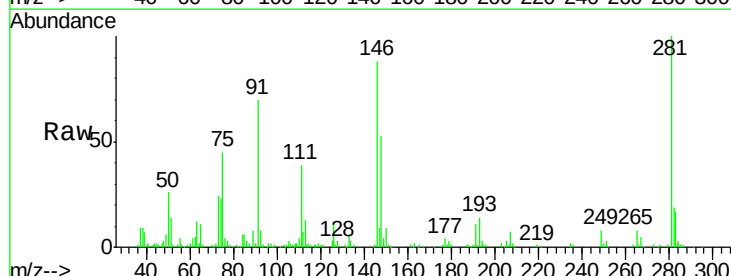
Manual Integrations  
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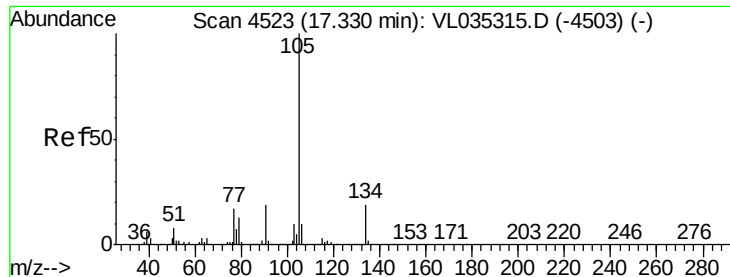
apatel  
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#66  
 Benzyl Chloride  
 Concen: 0.886 ppbv m  
 RT: 17.02 min Scan# 4426  
 Delta R.T. -0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 17.1  | 13.8  | 20.8  |
| 128     | 4.7   | 4.2   | 6.4   |





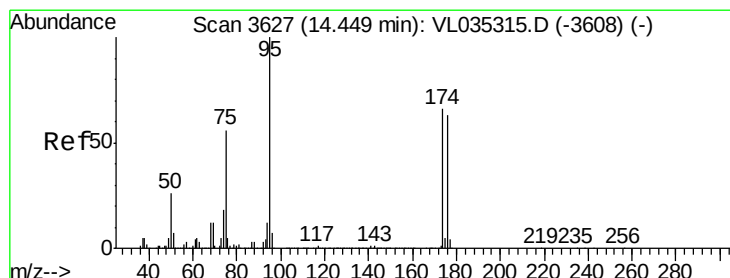
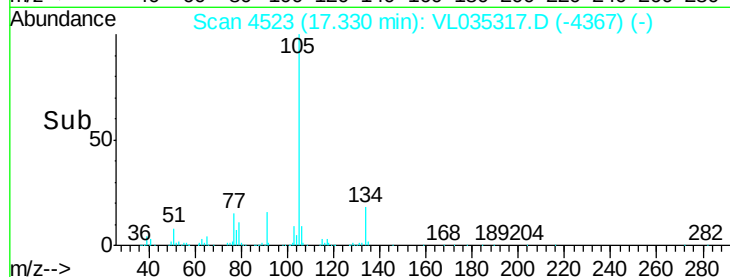
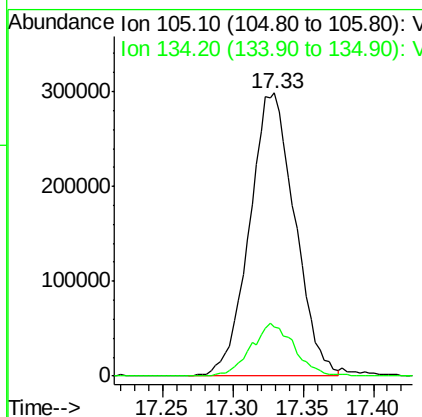
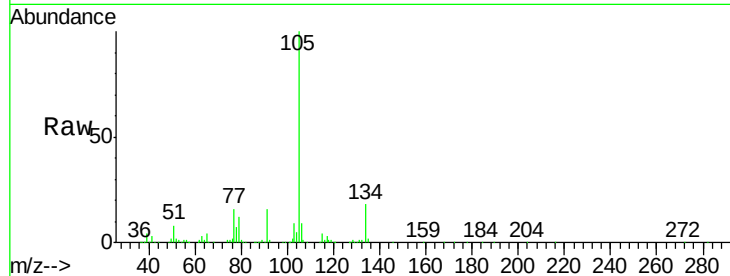
#67  
 sec-Butylbenzene  
 Concen: 1.002 ppbv  
 RT: 17.33 min Scan# 4523  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 17.9  | 15.1  | 22.7  |

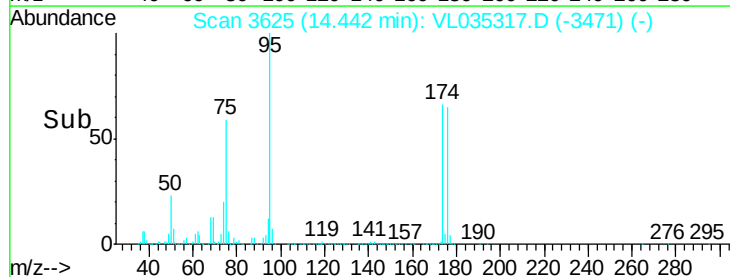
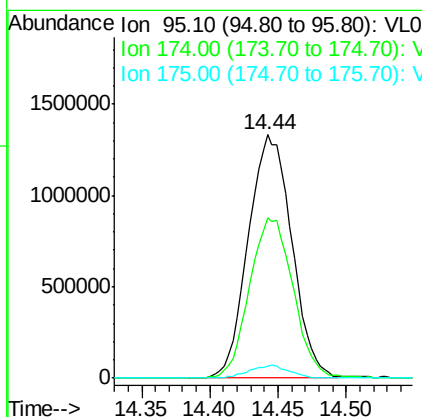
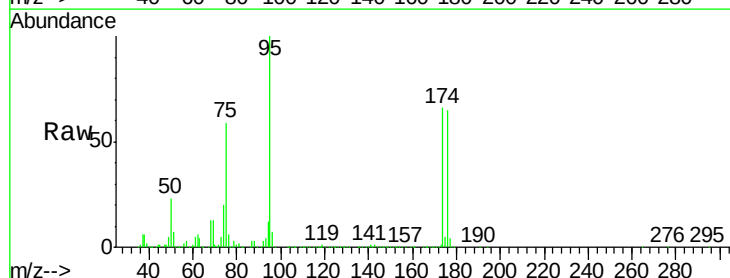
Manual Integrations  
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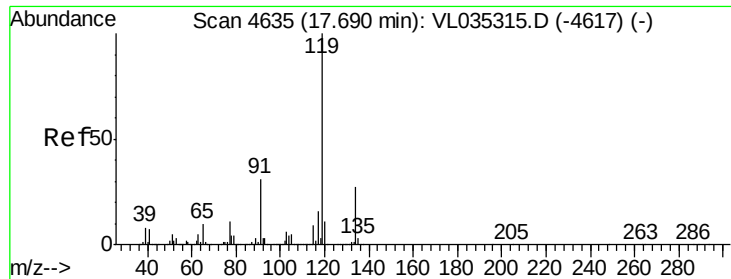
apatel  
 8/6/2020 2:44:20 PM



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.704 ppbv  
 RT: 14.44 min Scan# 3625  
 Delta R.T. -0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 66.5  | 52.5  | 78.7  |
| 175     | 4.9   | 3.9   | 5.9   |





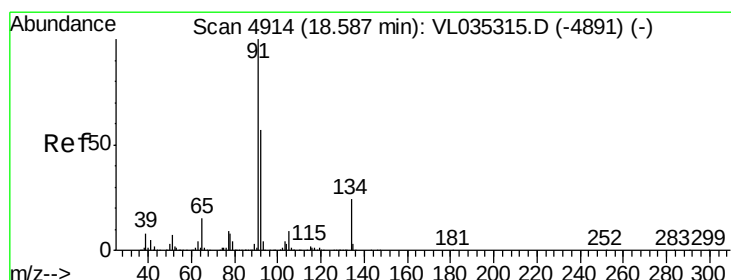
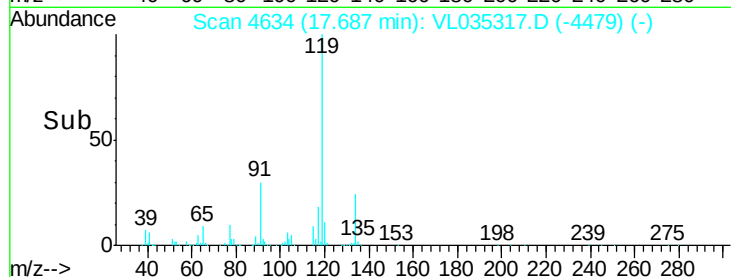
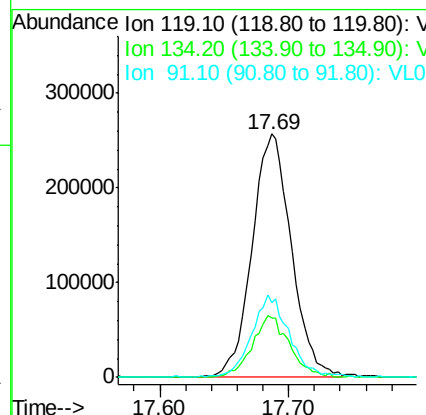
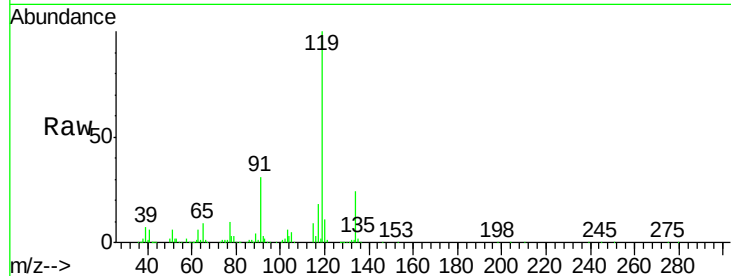
#69  
 p-Isopropyltoluene  
 Concen: 1.003 ppbv  
 RT: 17.69 min Scan# 4634  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.0  | 21.2  | 31.8  |
| 91      | 32.7  | 25.3  | 37.9  |

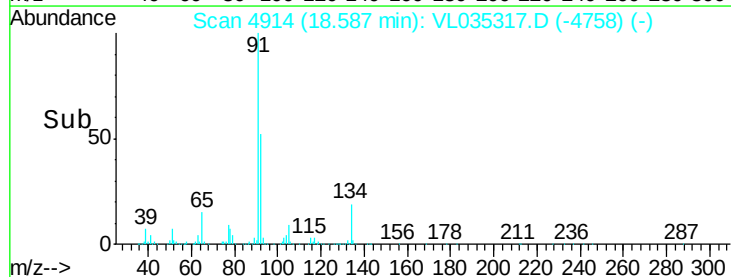
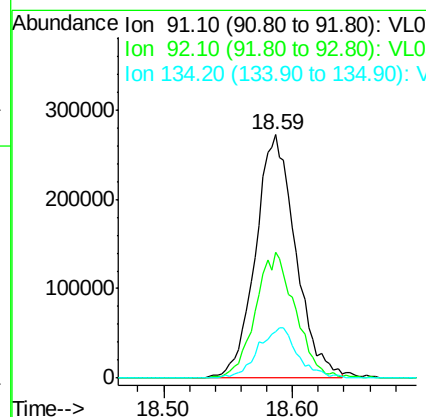
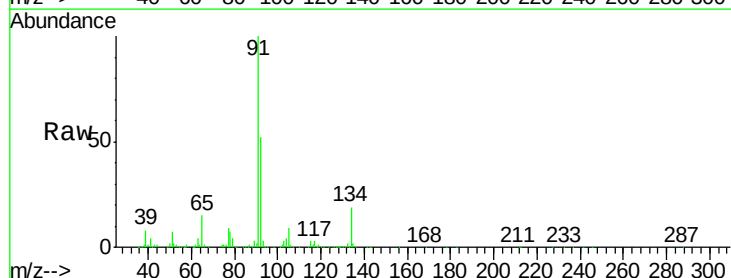
Manual Integrations  
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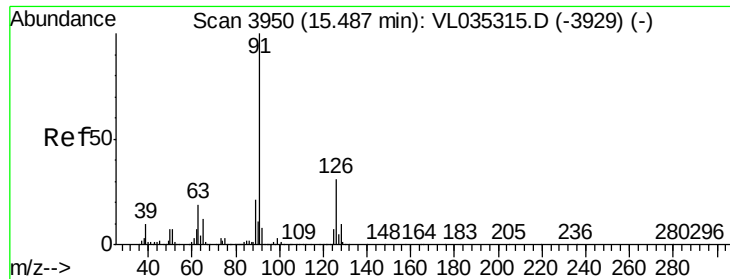
apatel  
 8/6/2020 2:44:20 PM



#70  
 n-Butylbenzene  
 Concen: 0.999 ppbv  
 RT: 18.59 min Scan# 4914  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.5  | 44.6  | 66.8  |
| 134     | 20.6  | 18.6  | 27.8  |





#71

2-Chlorotoluene

Concen: 0.976 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 371569

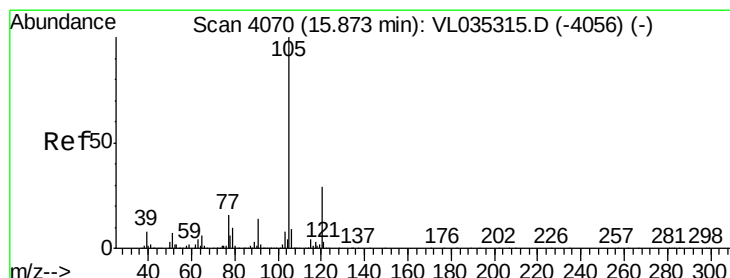
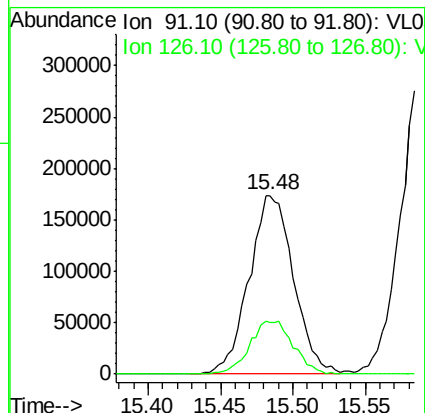
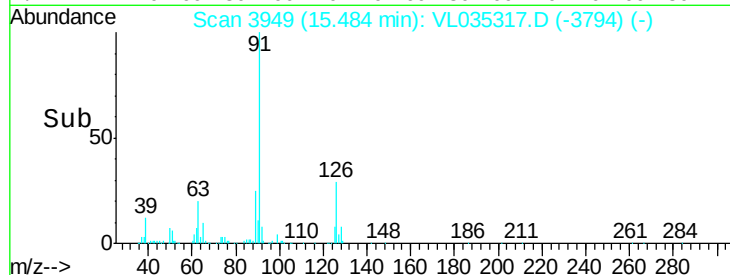
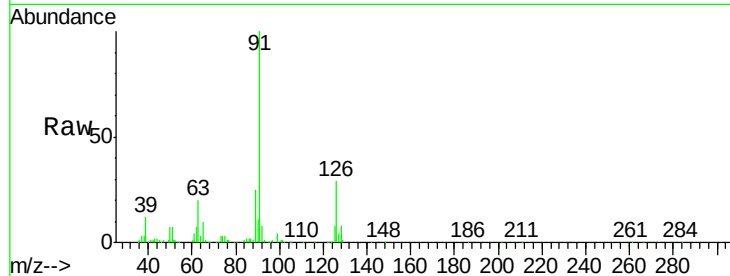
Ion Ratio Lower Upper

91 100

126 28.9 12.3 49.3

Manual Integrations  
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apatel  
8/6/2020 2:44:20 PM



#72

4-Ethyltoluene

Concen: 0.971 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Tgt Ion: 105 Resp: 370688

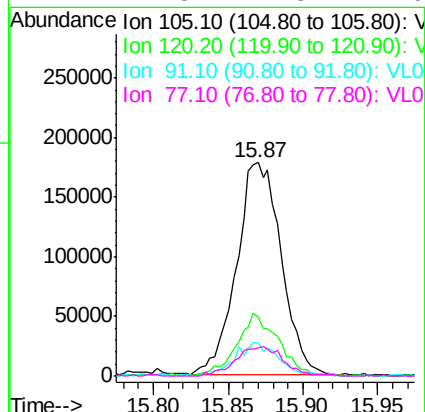
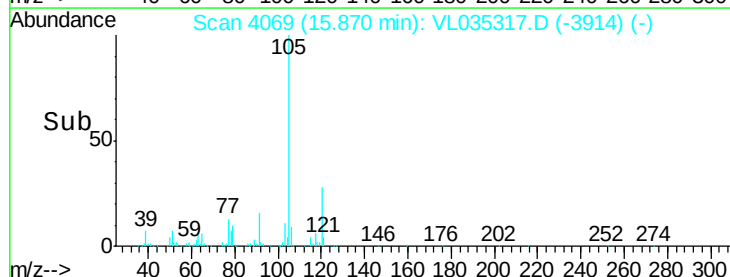
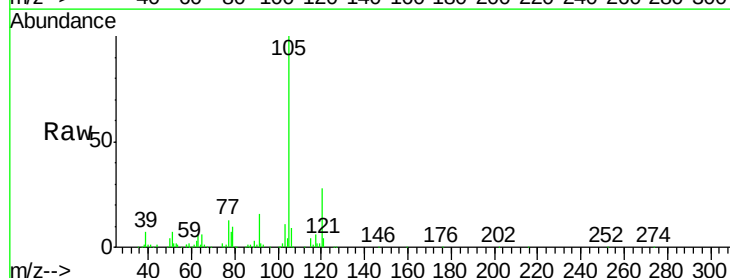
Ion Ratio Lower Upper

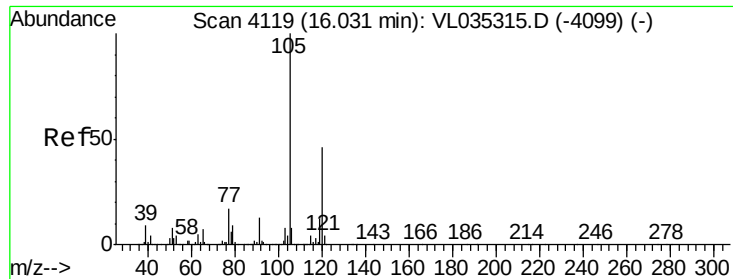
105 100

120 28.2 23.6 35.4

91 15.8 11.3 16.9

77 14.8 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 1.016 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 378259

Ion Ratio Lower Upper

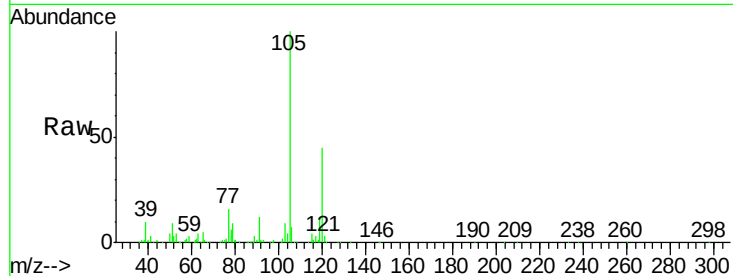
105 100

120 44.7 36.6 54.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.02

200000

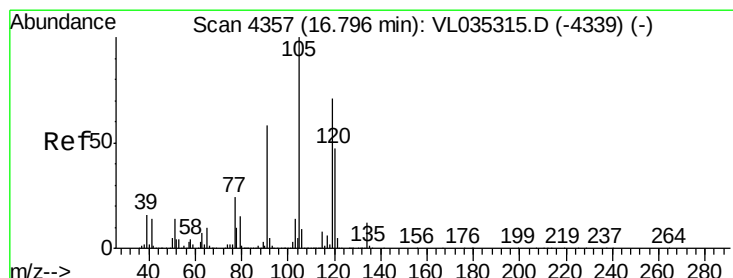
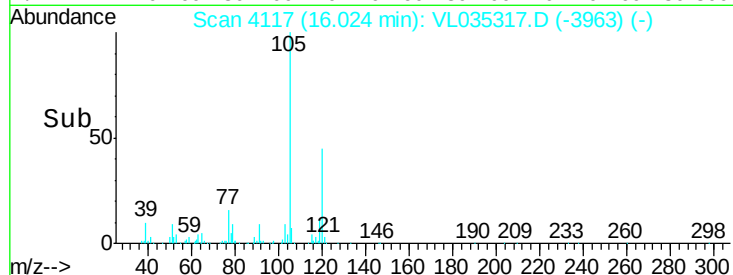
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.034 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.00 min

Lab File: VL035317.D

Acq: 3 Aug 2020 13:38

Tgt Ion:105 Resp: 448454

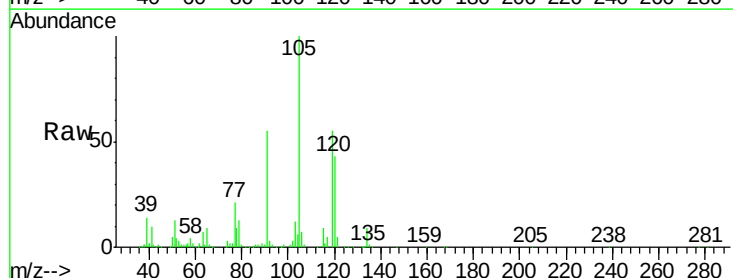
Ion Ratio Lower Upper

105 100

120 42.3 38.0 57.0

91 54.0 47.9 71.9

77 20.4 19.6 29.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

300000

250000

200000

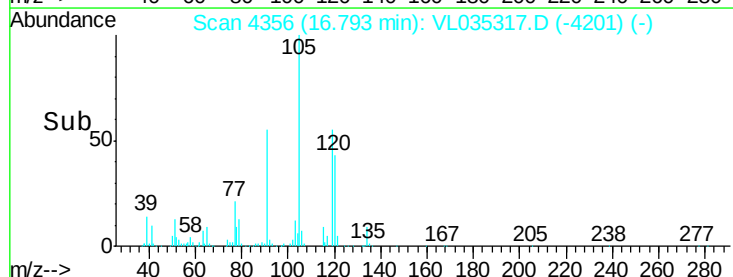
150000

100000

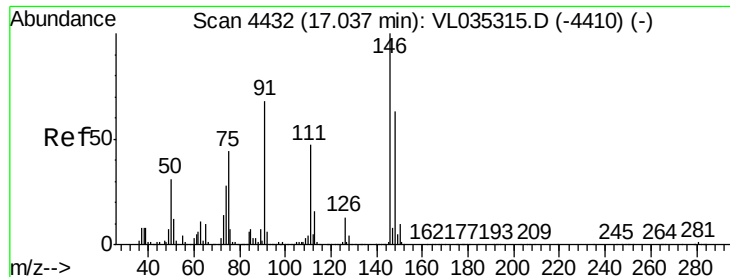
50000

0

Time-->







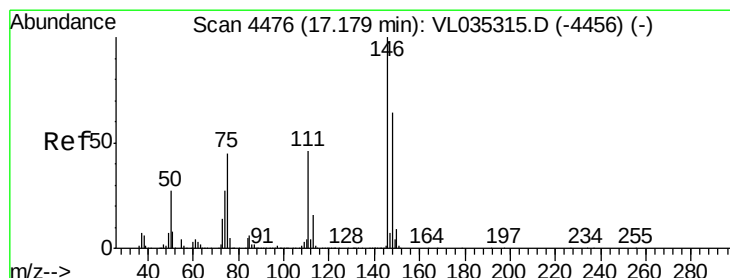
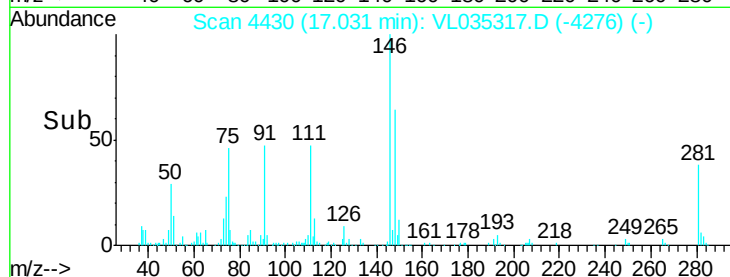
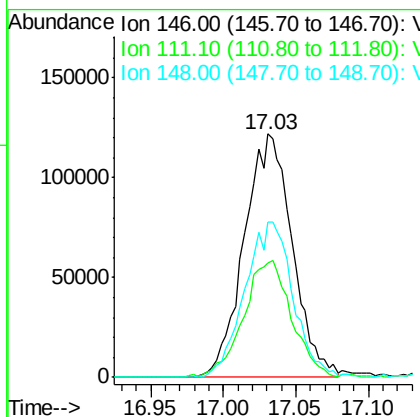
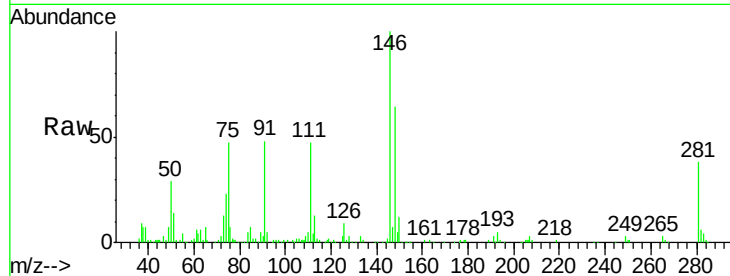
#75  
 1,3-Dichlorobenzene  
 Concen: 1.004 ppbv  
 RT: 17.03 min Scan# 4430  
 Delta R.T. -0.01 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.3  | 24.2  | 72.6  |
| 148     | 64.3  | 32.4  | 97.0  |

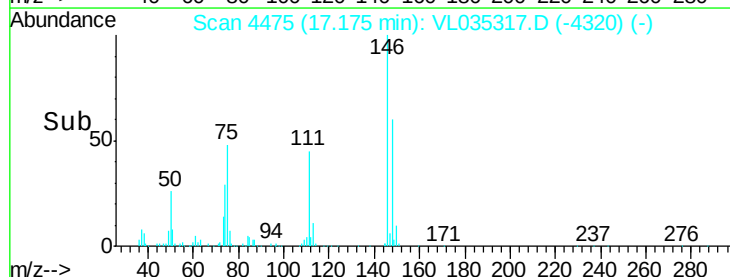
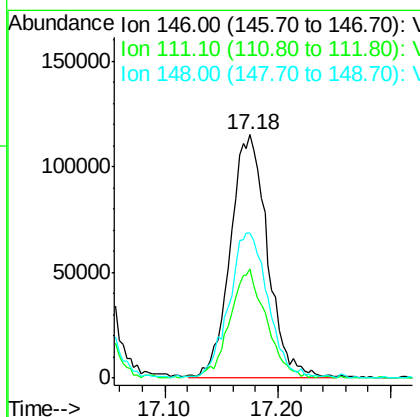
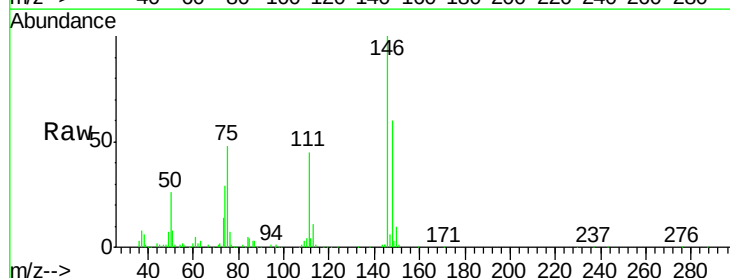
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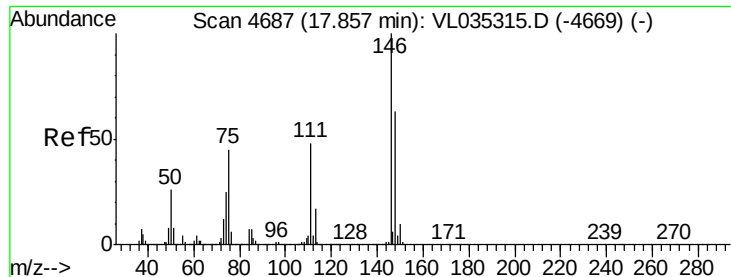
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#76  
 1,4-Dichlorobenzene  
 Concen: 1.041 ppbv m  
 RT: 17.18 min Scan# 4475  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.4  | 23.6  | 70.8  |
| 148     | 63.6  | 32.8  | 98.4  |





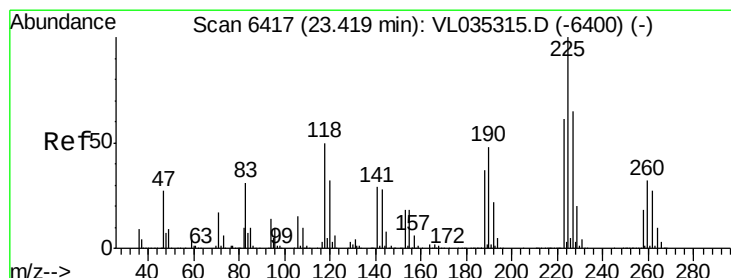
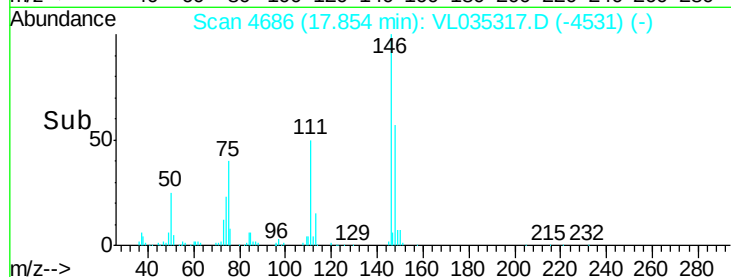
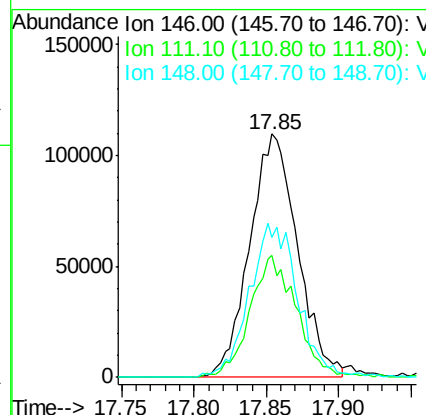
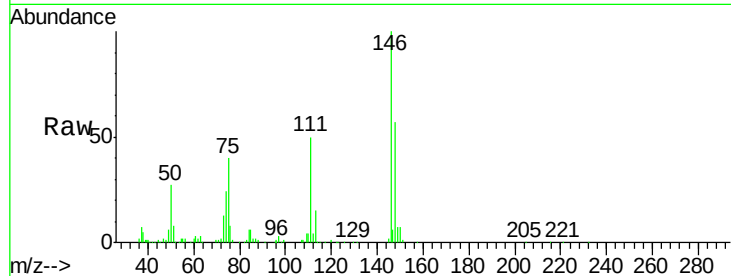
#77  
 1,2-Dichlorobenzene  
 Concen: 1.004 ppbv  
 RT: 17.85 min Scan# 4686  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.9  | 24.6  | 73.6  |
| 148     | 64.3  | 32.3  | 96.8  |

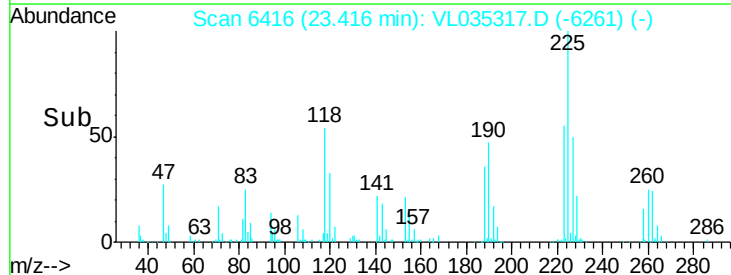
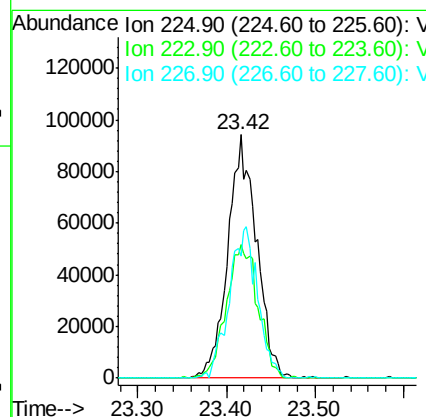
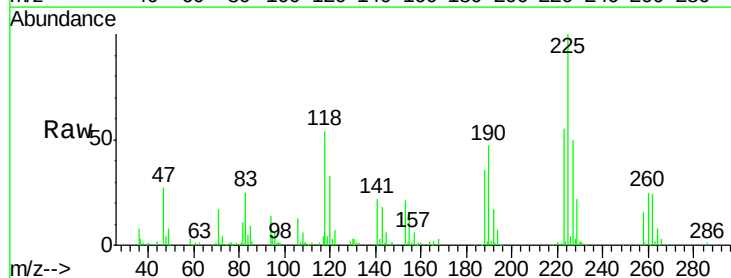
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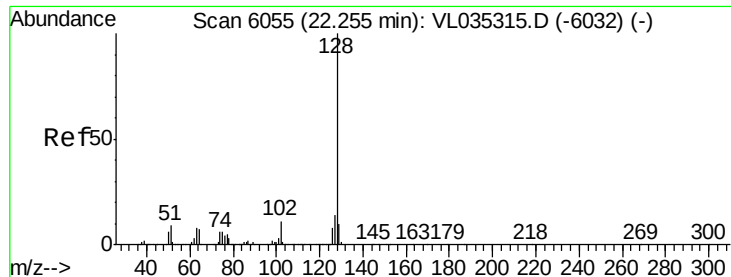
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#78  
 Hexachloro-1,3-Butadiene  
 Concen: 1.031 ppbv  
 RT: 23.42 min Scan# 6416  
 Delta R.T. -0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 60.6  | 50.2  | 75.4  |
| 227     | 0.0   | 52.7  | 79.1# |





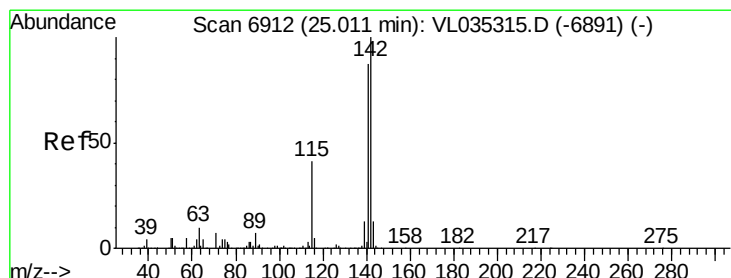
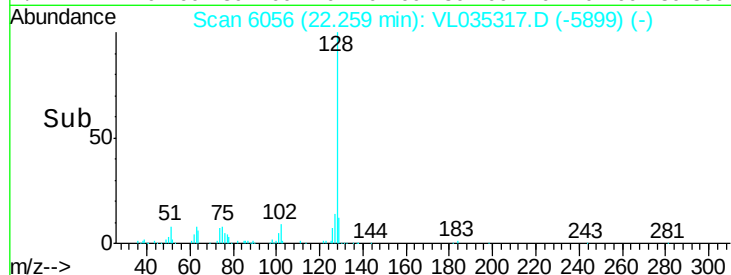
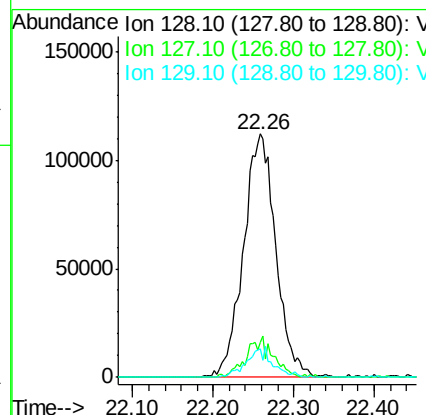
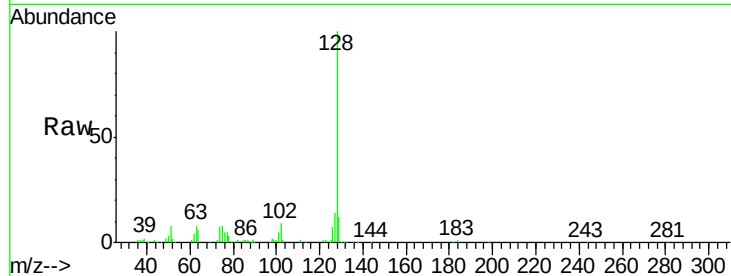
#79  
Naphthalene  
Concen: 0.914 ppbv m  
RT: 22.26 min Scan# 6056  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 315185 |       |       |
| 127     | 14.3  |        | 10.8  | 16.2  |
| 129     | 11.9  |        | 8.4   | 12.6  |

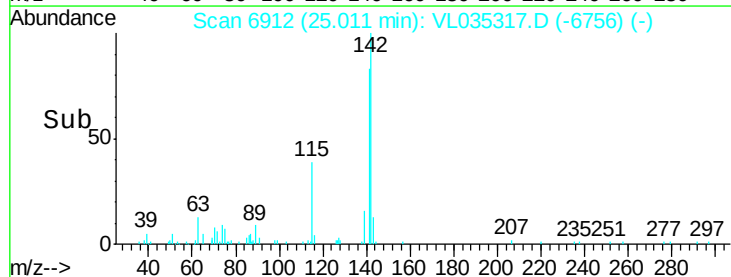
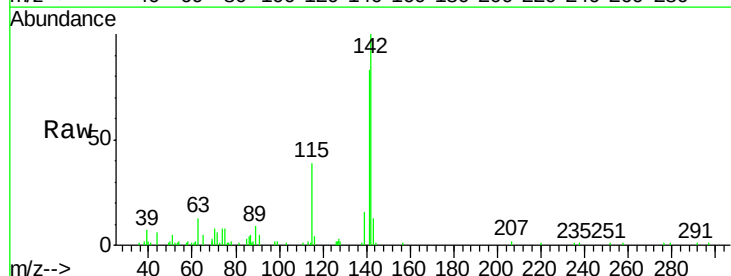
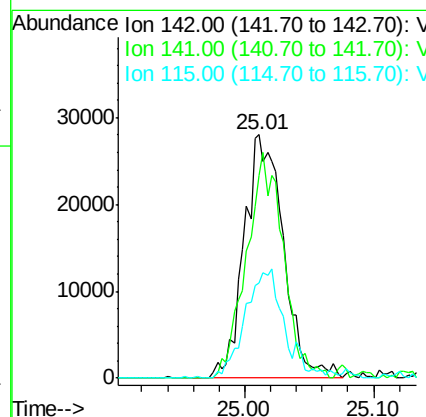
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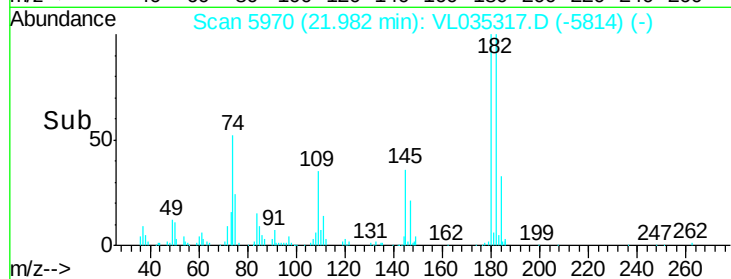
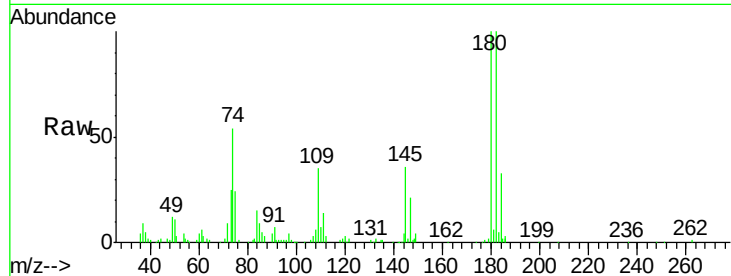
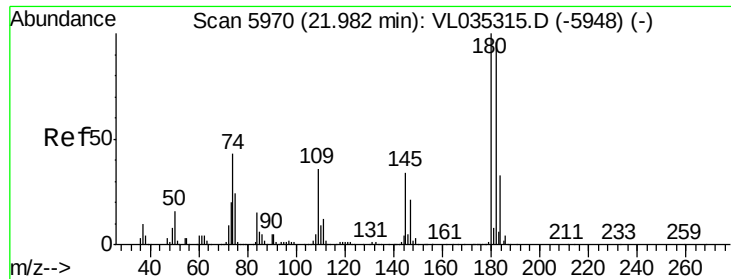
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#80  
Naphthalene, 2-methyl-  
Concen: 0.533 ppbv  
RT: 25.01 min Scan# 6912  
Delta R.T. 0.00 min  
Lab File: VL035317.D  
Acq: 3 Aug 2020 13:38

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 59452 |       |       |
| 141     | 86.6  |       | 68.3  | 102.5 |
| 115     | 45.8  |       | 35.0  | 52.4  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.979 ppbv m  
 RT: 21.98 min Scan# 5970  
 Delta R.T. 0.00 min  
 Lab File: VL035317.D  
 Acq: 3 Aug 2020 13:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 180     | 100   |            |       |
| 182     | 93.1  | 76.9       | 115.3 |
| 184     | 30.0  | 25.0       | 37.6  |

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