

Data File : VL035994.D  
Acq On : 24 Nov 2020 11:30  
Operator : SY/AP  
Sample : VSTDCCC010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Quant Time: Nov 25 00:30:26 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1228916  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4459617  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 5583201  | 10.00 | ppbv  | -0.03    |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 3478302  | 8.77     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 87.70% |

#### Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.03 | 85  | 1731529 | 7.484  | ppbv | 99     |
| 3) Chlorodifluoromethane       | 2.97 | 51  | 1396787 | 9.491  | ppbv | 100    |
| 4) Chloromethane               | 3.12 | 50  | 703804  | 9.844  | ppbv | 100    |
| 5) Vinyl Chloride              | 3.24 | 62  | 878763  | 9.642  | ppbv | 96     |
| 6) Bromomethane                | 3.45 | 94  | 711082  | 9.702  | ppbv | 99     |
| 7) Chloroethane                | 3.54 | 64  | 325316  | 10.142 | ppbv | 96     |
| 8) Dichlorotetrafluoroethane   | 3.17 | 85  | 2411205 | 9.106  | ppbv | 98     |
| 9) Propene                     | 2.99 | 41  | 512148  | 9.508  | ppbv | 98     |
| 10) Heptane                    | 8.10 | 43  | 1546084 | 10.392 | ppbv | 99     |
| 11) Trichlorofluoromethane     | 3.93 | 101 | 2902327 | 9.990  | ppbv | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.47 | 101 | 2182182 | 10.088 | ppbv | 97     |
| 13) Ethanol                    | 3.58 | 45  | 97701   | 8.361  | ppbv | 100    |
| 14) Bromoethene                | 3.72 | 108 | 922614  | 9.268  | ppbv | 100    |
| 15) Acetone                    | 3.83 | 43  | 1238806 | 9.429  | ppbv | 99     |
| 16) 1,3-Butadiene              | 3.31 | 39  | 569680  | 10.071 | ppbv | 97     |
| 17) tert-Butyl alcohol         | 4.27 | 59  | 1629068 | 9.356  | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.27 | 96  | 1001145 | 10.081 | ppbv | 100    |
| 19) Isopropyl Alcohol          | 3.95 | 45  | 798532  | 9.890  | ppbv | 98     |
| 20) Methylene Chloride         | 4.32 | 84  | 838920  | 9.070  | ppbv | 98     |
| 21) Allyl Chloride             | 4.39 | 41  | 734917  | 10.344 | ppbv | 99     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 1008425 | 10.016 | ppbv | 97     |
| 23) Vinyl Acetate              | 5.05 | 43  | 1617261 | 8.782  | ppbv | 100    |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 1711450 | 9.754  | ppbv | 100    |
| 25) Ethyl Acetate              | 5.65 | 43  | 2620034 | 10.123 | ppbv | 99     |
| 26) Hexane                     | 5.66 | 57  | 1366854 | 9.576  | ppbv | 97     |
| 27) Carbon Disulfide           | 4.53 | 76  | 2213627 | 10.350 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 2247510 | 8.768  | ppbv | 99     |
| 29) Chloroform                 | 5.73 | 83  | 2643199 | 9.421  | ppbv | 98     |
| 30) Cyclohexane                | 7.11 | 84  | 1402366 | 9.021  | ppbv | 96     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 1366844 | 9.308  | ppbv | 97     |
| 32) 1,1,1-Trichloroethane      | 6.49 | 97  | 2528529 | 8.637  | ppbv | 98     |
| 34) 2-Butanone                 | 5.22 | 43  | 1611488 | 11.134 | ppbv | 97     |
| 35) Carbon Tetrachloride       | 7.00 | 117 | 2518501 | 10.570 | ppbv | 99     |
| 36) Benzene                    | 6.87 | 78  | 3293772 | 9.935  | ppbv | 98     |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 1650000 | 10.986 | ppbv | 99     |
| 38) Trichloroethene            | 7.82 | 130 | 1517431 | 9.370  | ppbv | 98     |
| 39) 1,2-Dichloropropane        | 7.59 | 63  | 1176887 | 10.544 | ppbv | 98     |
| 40) 1,4-Dioxane                | 7.81 | 88  | 548980  | 10.377 | ppbv | 92     |
| 41) Tetrahydrofuran            | 6.03 | 42  | 946368  | 11.509 | ppbv | 96     |
| 42) Bromodichloromethane       | 7.77 | 83  | 2739334 | 10.809 | ppbv | 99     |
| 43) Methyl Methacrylate        | 7.99 | 69  | 1369419 | 10.829 | ppbv | 96     |

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ClientSampleId :  
VSTDCCC010

Quant Time: Nov 25 00:30:26 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.85  | 57   | 4711946  | 10.740 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.26  | 75   | 1421380  | 10.603 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.68  | 75   | 1804725  | 10.630 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.46  | 97   | 1543311  | 10.147 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.28 | 129  | 2489372  | 10.713 | ppbv   | 100      |
| 49) Bromoform                 | 13.02 | 173  | 2040509  | 10.407 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.72  | 43   | 2585280  | 11.682 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.11 | 43   | 2078397  | 11.691 | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.20 | 164  | 1356042  | 8.633  | ppbv   | 98       |
| 53) Toluene                   | 9.79  | 91   | 3999528  | 9.998  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.59 | 107  | 2297411  | 9.932  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.11 | 131  | 1937258  | 7.731  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.13 | 112  | 3235259  | 7.288  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.69 | 91   | 5143035  | 7.563  | ppbv   | 99       |
| 59) m/p-Xylene                | 12.98 | 91   | 4749818  | 8.256  | ppbv # | 40       |
| 60) o-Xylene                  | 13.67 | 91   | 4353968  | 7.780  | ppbv   | 99       |
| 61) Styrene                   | 13.51 | 104  | 3174517  | 7.742  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.65 | 105  | 6397595  | 7.273  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 3188882  | 7.354  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.55 | 120  | 1863006  | 7.327  | ppbv   | 94       |
| 65) tert-Butylbenzene         | 16.73 | 119  | 5712640  | 7.135  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.97 | 91   | 2009101  | 7.591  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.28 | 105  | 7692666  | 7.130  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 6259953  | 7.030  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.54 | 91   | 6298844  | 7.346  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.44 | 91   | 4823218  | 7.496  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 5034807  | 7.418  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 15.98 | 105  | 4633364  | 7.459  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 4877751  | 7.328  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 16.98 | 146  | 2931900  | 6.918  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.12 | 146  | 2859586  | 6.995  | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.80 | 146  | 2795168  | 6.766  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 1286471  | 6.674  | ppbv   | 100      |
| 79) Naphthalene               | 22.18 | 128  | 3041254  | 6.555  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.97 | 142  | 347097   | 4.590  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 1590661  | 6.136  | ppbv   | 99       |

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

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ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

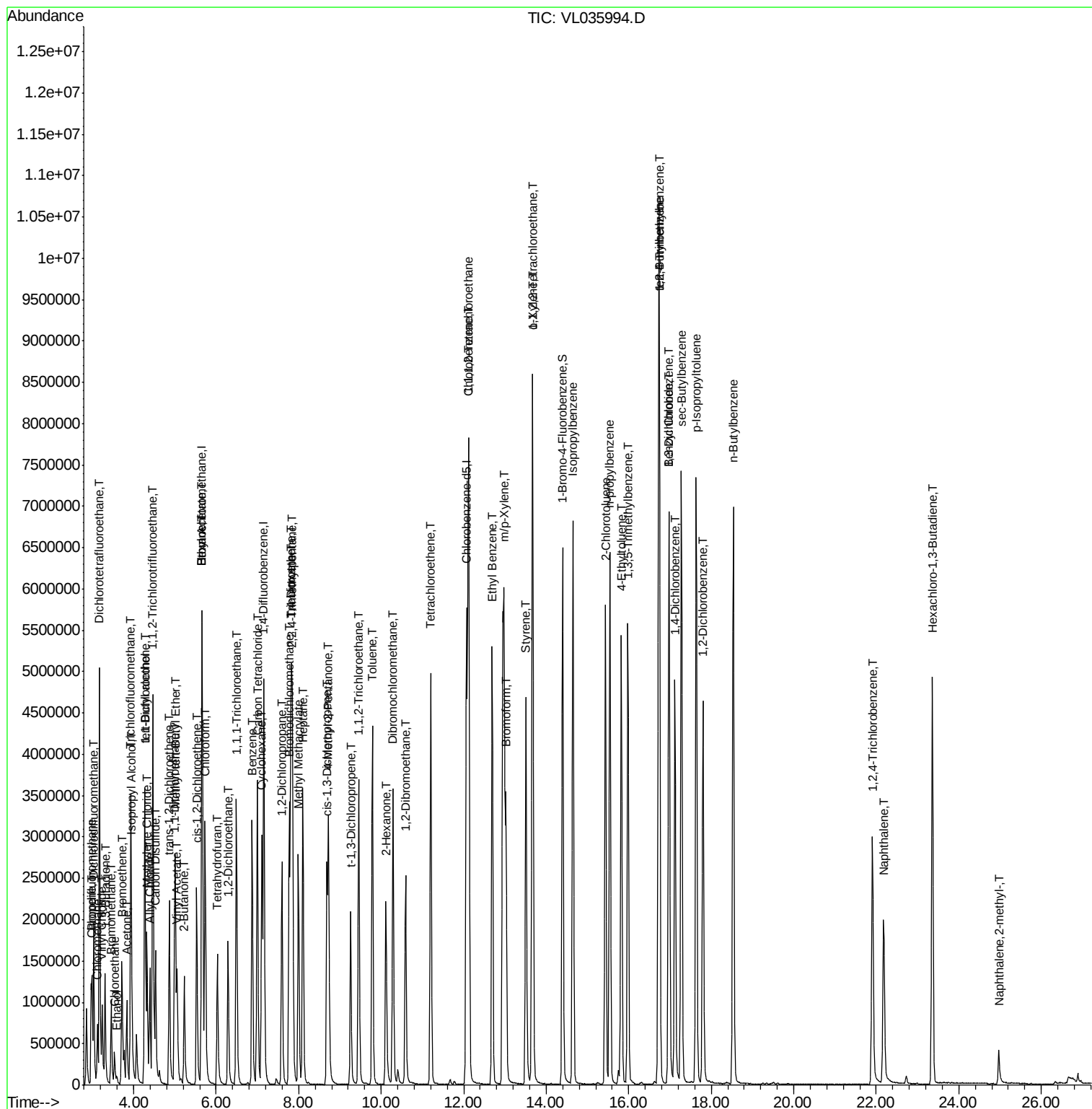
Quant Time: Nov 25 00:30:26 2020

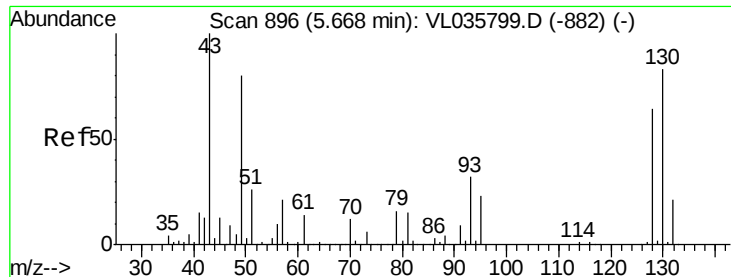
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A\_L\METHODS\VL110320AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Nov 04 02:40:06 2020

QLast Update : Wed Nov 04 02:40:06 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

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Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

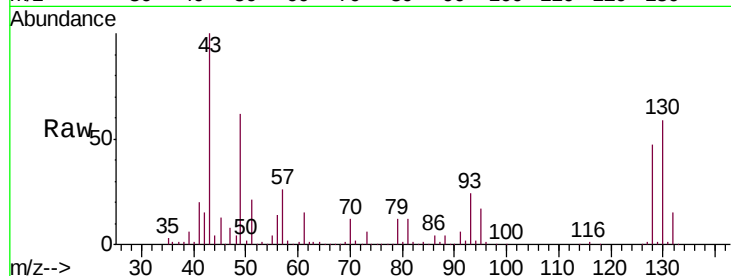
Tgt Ion: 49 Resp: 1228916

Ion Ratio Lower Upper

49 100

128 77.6 41.5 124.6

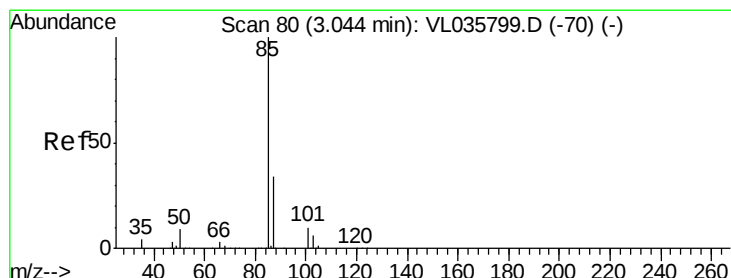
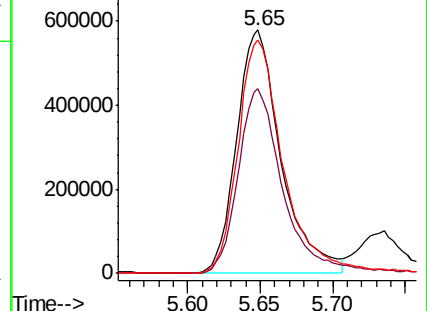
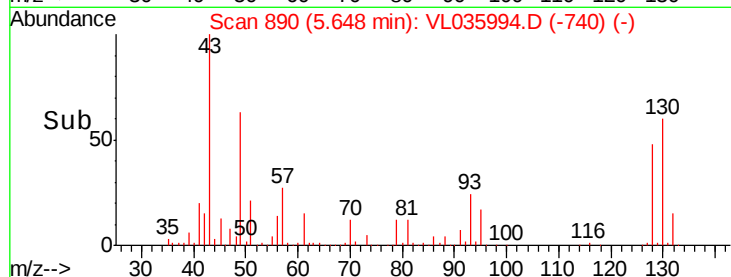
130 100.0 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.484 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035994.D

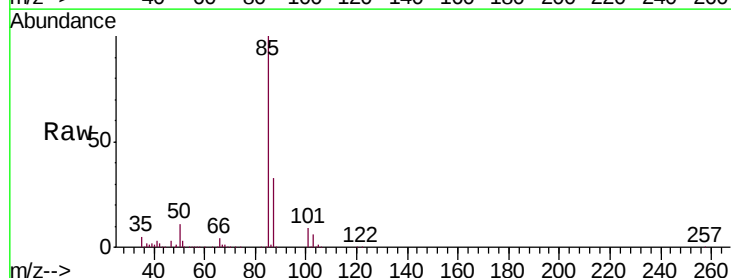
Acq: 24 Nov 2020 11:30

Tgt Ion: 85 Resp: 1731529

Ion Ratio Lower Upper

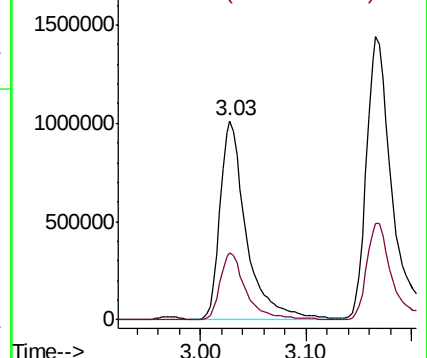
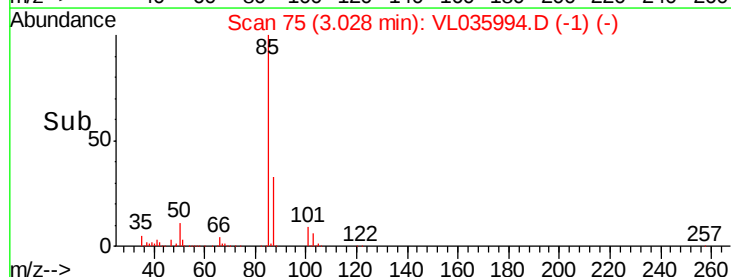
85 100

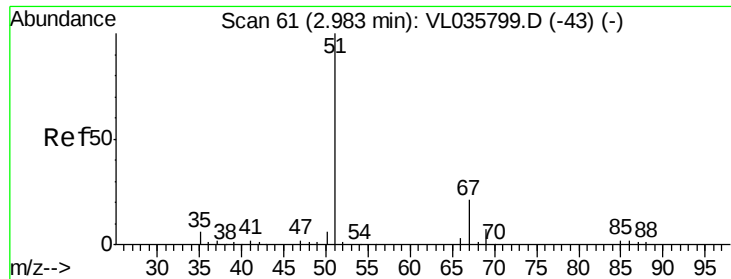
87 33.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.491 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

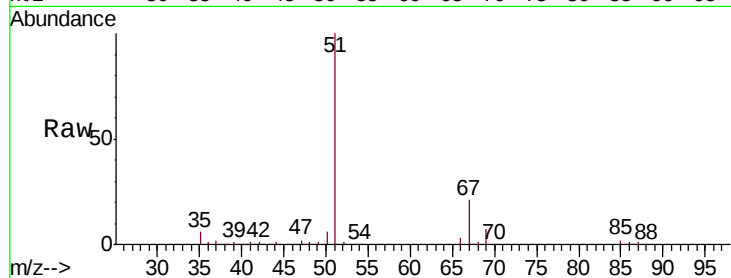
VSTDCCC010

Tgt Ion: 51 Resp: 1396787

Ion Ratio Lower Upper

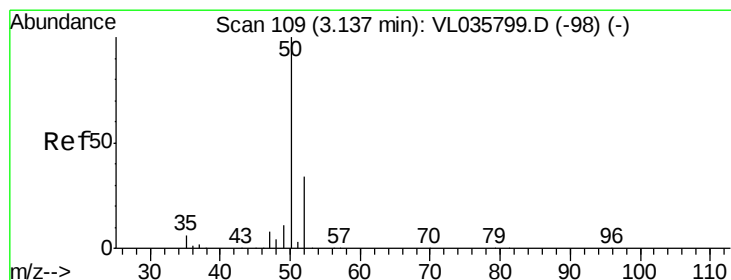
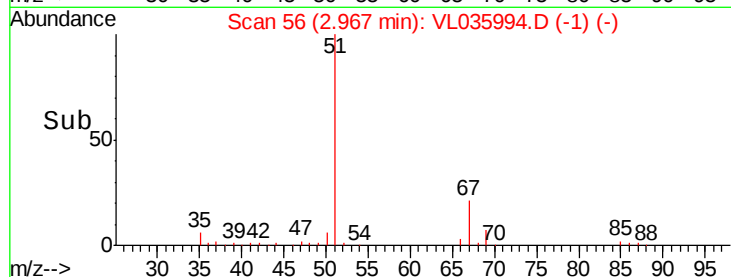
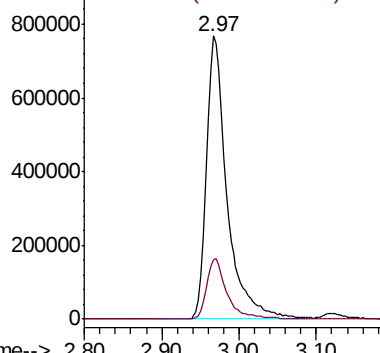
51 100

67 21.1 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.844 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL035994.D

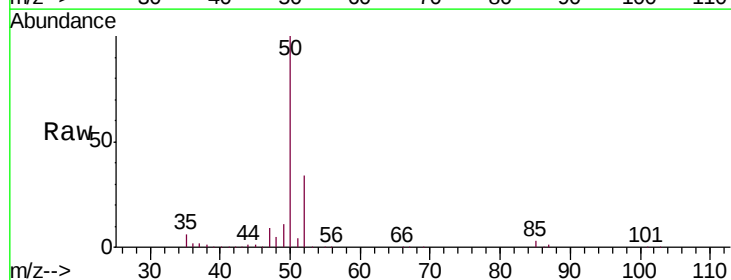
Acq: 24 Nov 2020 11:30

Tgt Ion: 50 Resp: 703804

Ion Ratio Lower Upper

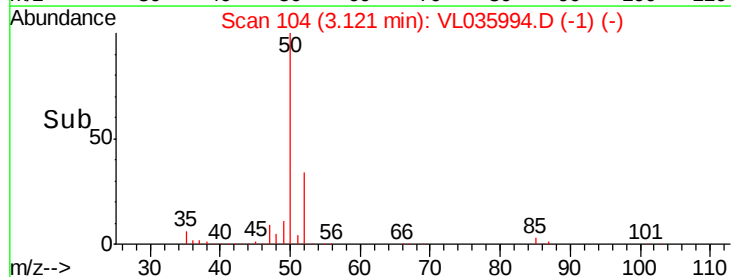
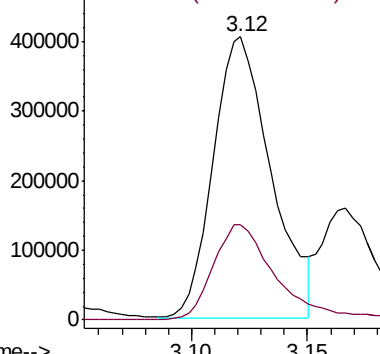
50 100

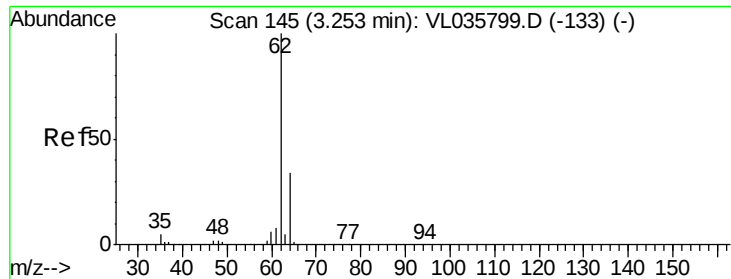
52 33.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.642 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

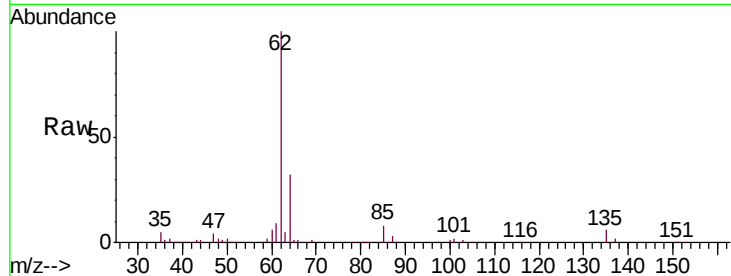
VSTDCCC010

Tgt Ion: 62 Resp: 878763

Ion Ratio Lower Upper

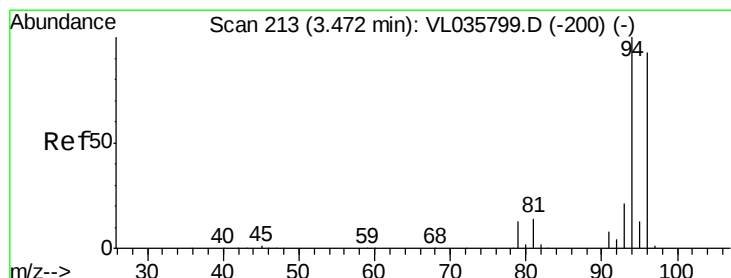
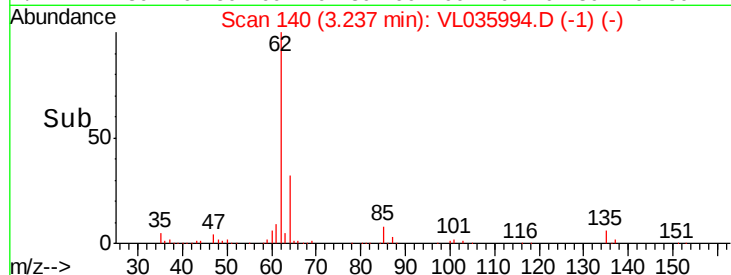
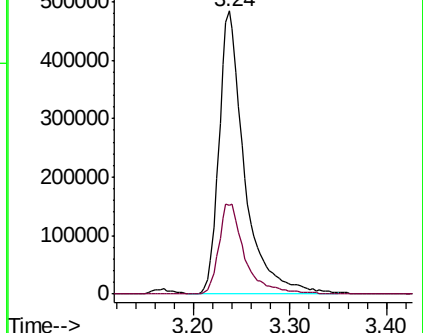
62 100

64 31.6 26.9 40.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.702 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.02 min

Lab File: VL035994.D

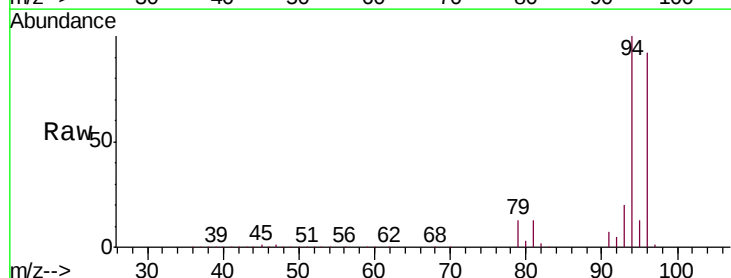
Acq: 24 Nov 2020 11:30

Tgt Ion: 94 Resp: 711082

Ion Ratio Lower Upper

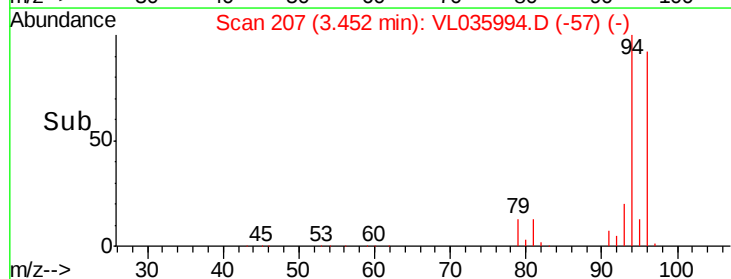
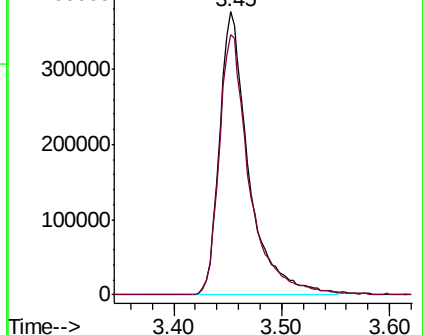
94 100

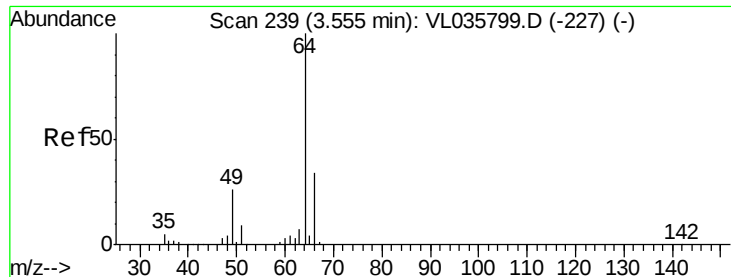
96 91.9 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.142 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

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Acq: 24 Nov 2020 11:30

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MSVOA\_L

ClientSampleId :

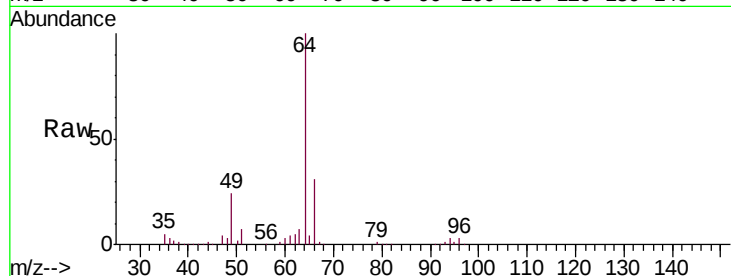
VSTDCCC010

Tgt Ion: 64 Resp: 325316

Ion Ratio Lower Upper

64 100

66 31.4 27.0 40.6



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.54

200000

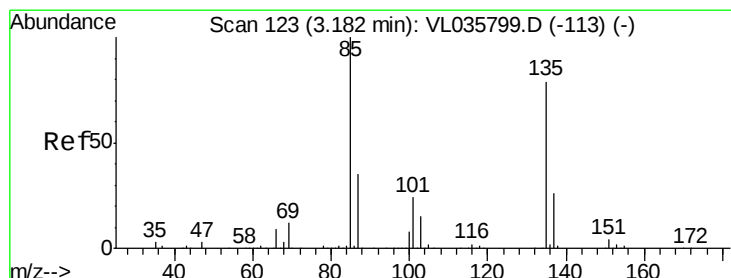
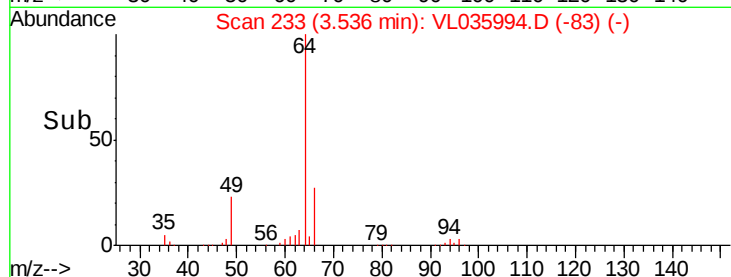
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.106 ppbv

RT: 3.17 min Scan# 118

Delta R.T. -0.02 min

Lab File: VL035994.D

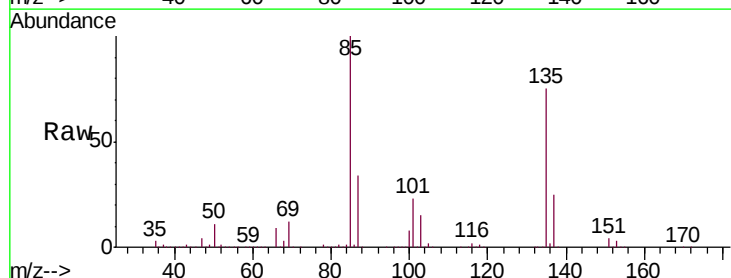
Acq: 24 Nov 2020 11:30

Tgt Ion: 85 Resp: 2411205

Ion Ratio Lower Upper

85 100

135 78.8 64.6 96.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

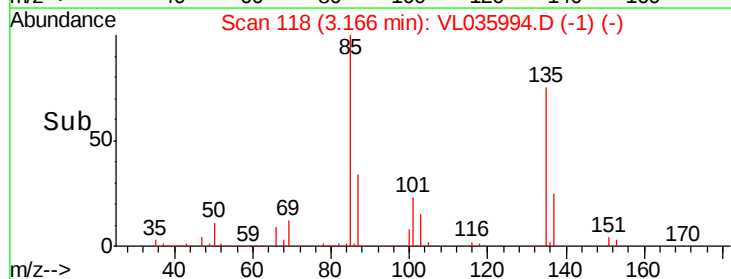
1500000

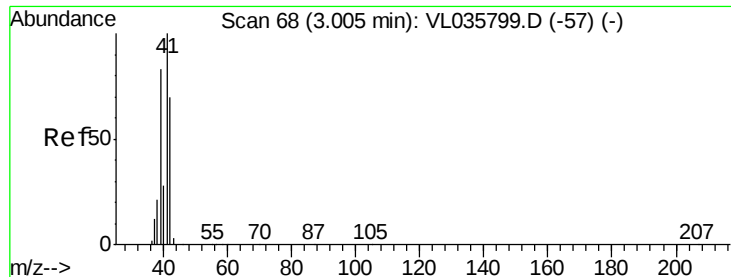
1000000

500000

0

Time-->





#9

Propene

Concen: 9.508 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

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MSVOA\_L

ClientSampleId :

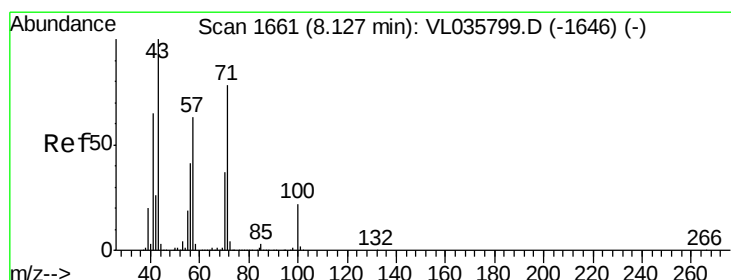
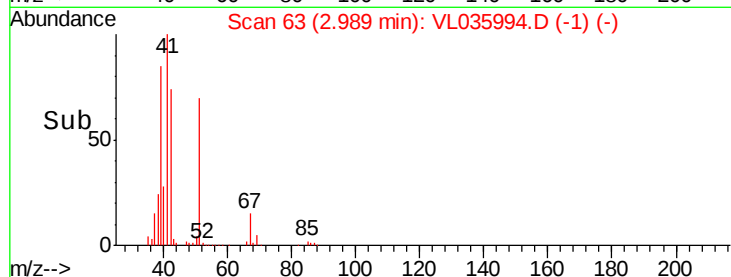
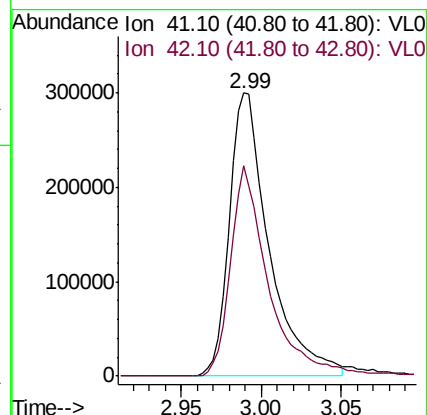
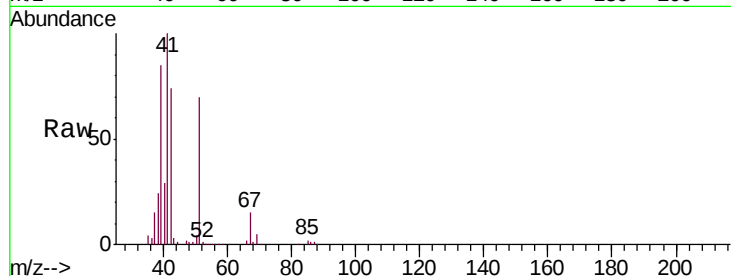
VSTDCCC010

Tgt Ion: 41 Resp: 512148

Ion Ratio Lower Upper

41 100

42 71.8 56.2 84.4



#10

Heptane

Concen: 10.392 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.03 min

Lab File: VL035994.D

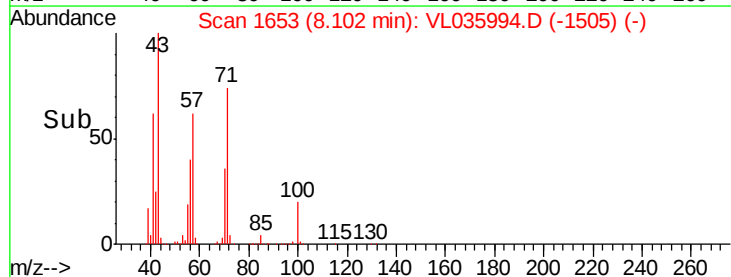
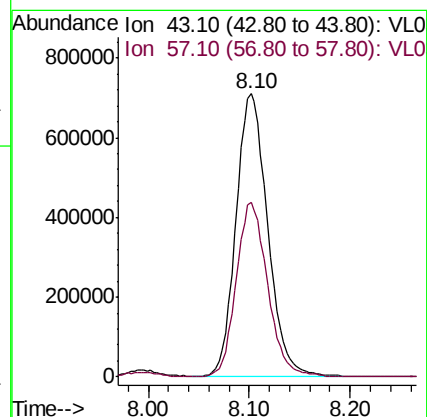
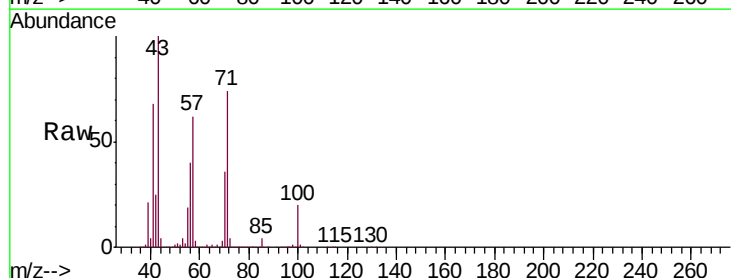
Acq: 24 Nov 2020 11:30

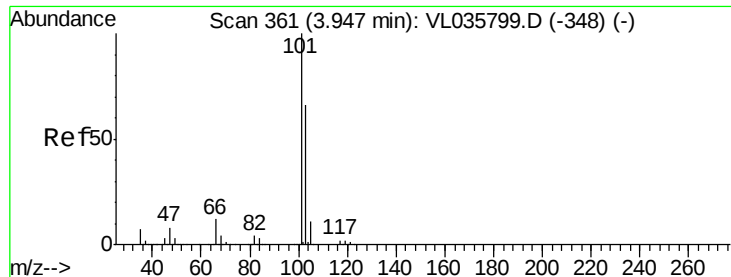
Tgt Ion: 43 Resp: 1546084

Ion Ratio Lower Upper

43 100

57 61.6 50.0 75.0

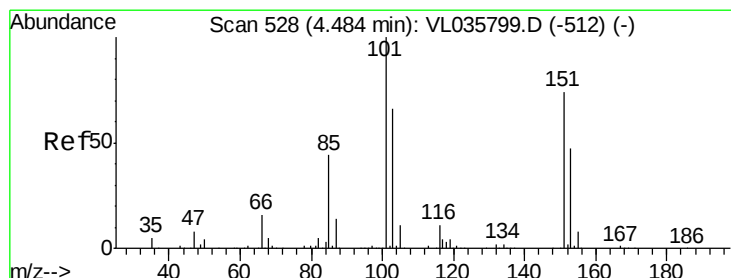
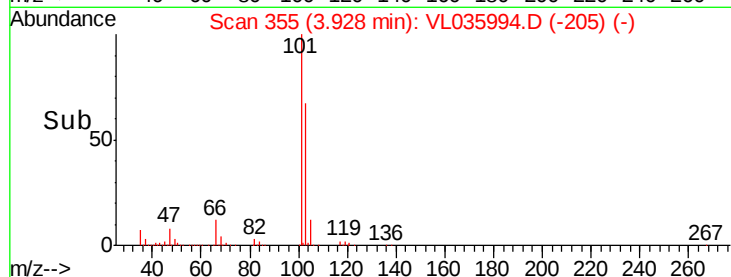
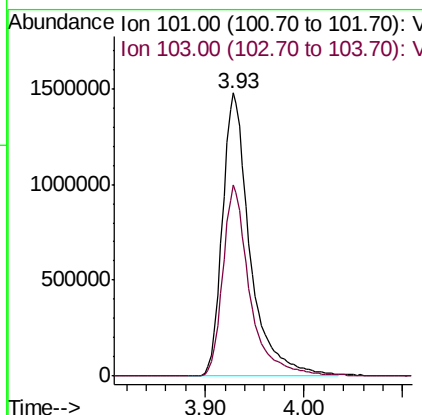
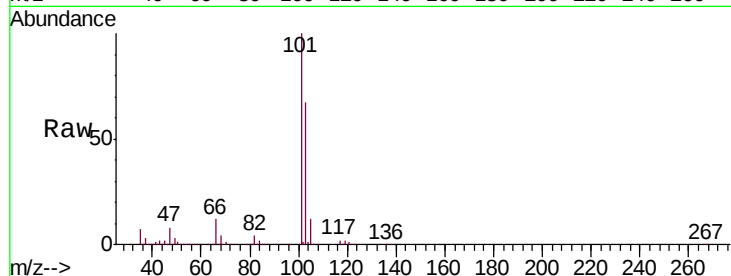




#11  
 Trichlorofluoromethane  
 Concen: 9.990 ppbv  
 RT: 3.93 min Scan# 355  
 Delta R.T. -0.02 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

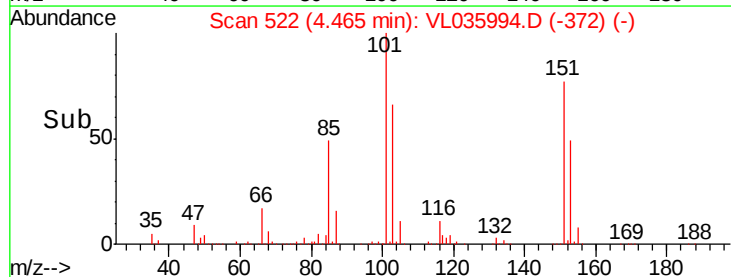
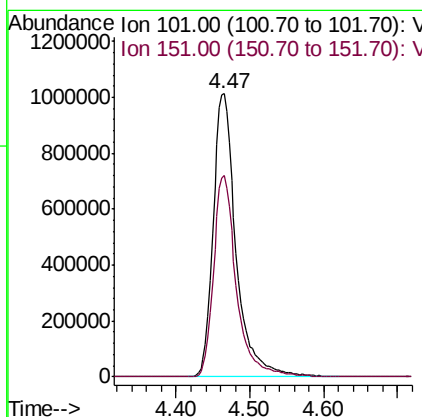
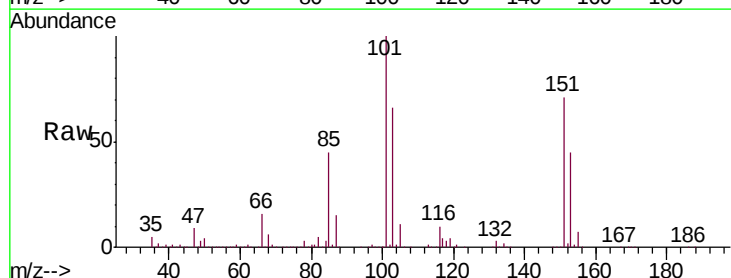
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

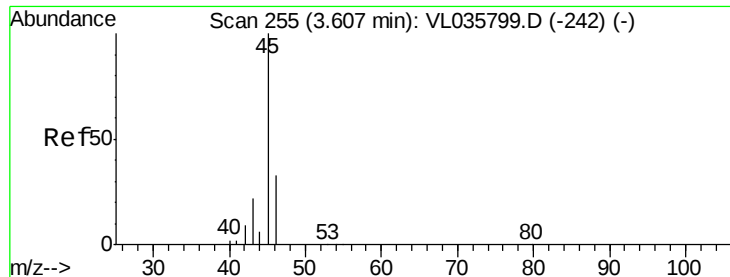
Tgt Ion:101 Resp: 2902327  
 Ion Ratio Lower Upper  
 101 100  
 103 67.5 53.0 79.4



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.088 ppbv  
 RT: 4.47 min Scan# 522  
 Delta R.T. -0.02 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion:101 Resp: 2182182  
 Ion Ratio Lower Upper  
 101 100  
 151 71.0 58.9 88.3





#13

Ethanol

Concen: 8.361 ppbv

RT: 3.58 min Scan# 248

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

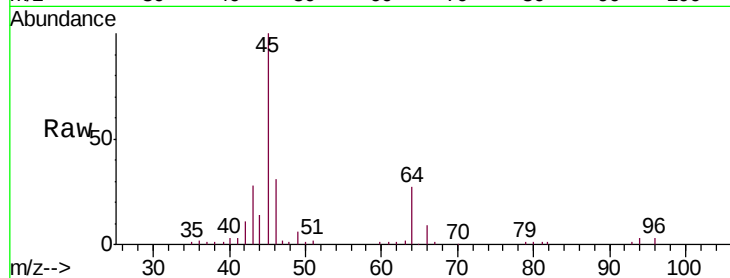
VSTDCCC010

Tgt Ion: 45 Resp: 97701

Ion Ratio Lower Upper

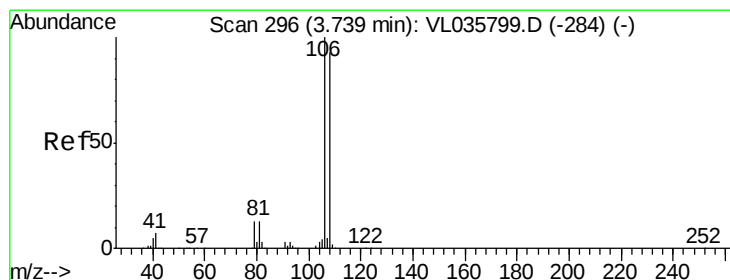
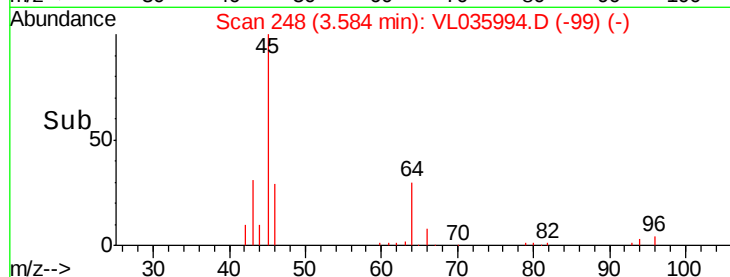
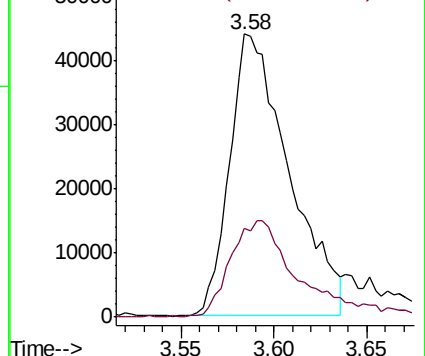
45 100

46 40.4 16.1 64.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.268 ppbv

RT: 3.72 min Scan# 290

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

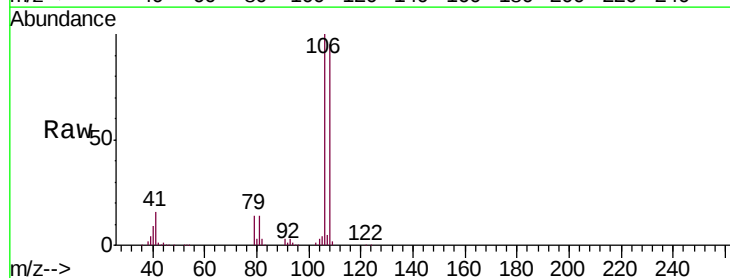
Tgt Ion: 108 Resp: 922614

Ion Ratio Lower Upper

108 100

106 106.5 85.3 127.9

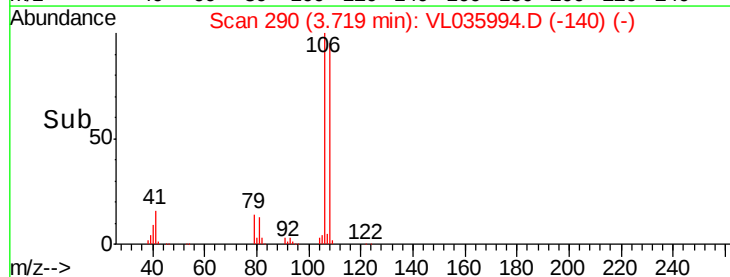
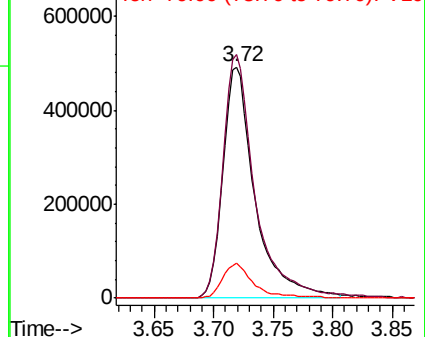
79 15.1 11.6 17.4

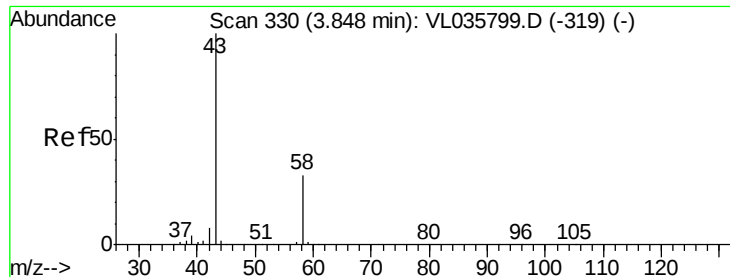


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.429 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

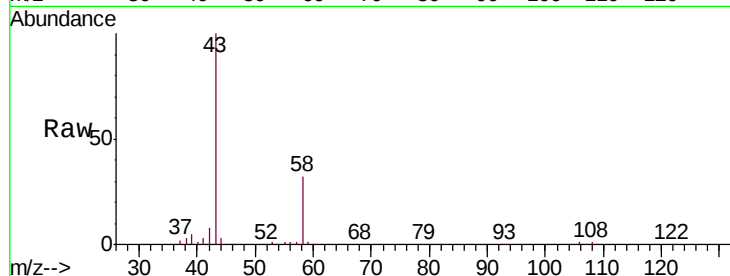
VSTDCCC010

Tgt Ion: 43 Resp: 1238806

Ion Ratio Lower Upper

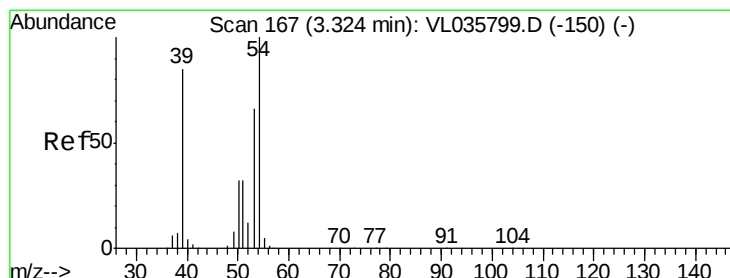
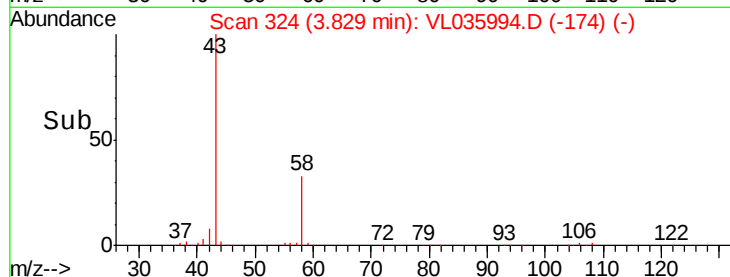
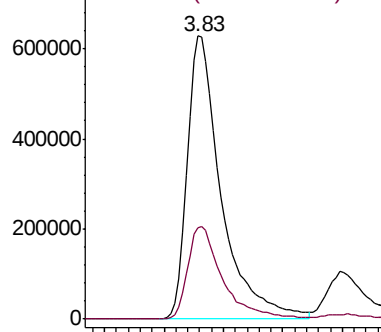
43 100

58 33.9 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.071 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.02 min

Lab File: VL035994.D

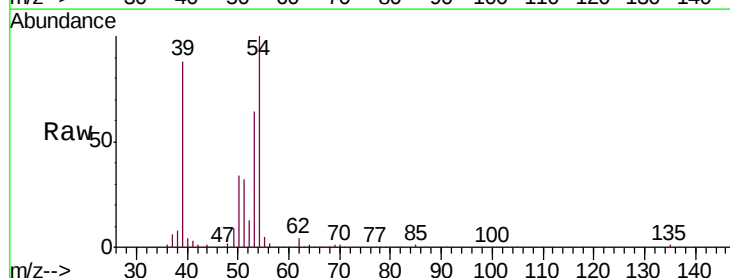
Acq: 24 Nov 2020 11:30

Tgt Ion: 39 Resp: 569680

Ion Ratio Lower Upper

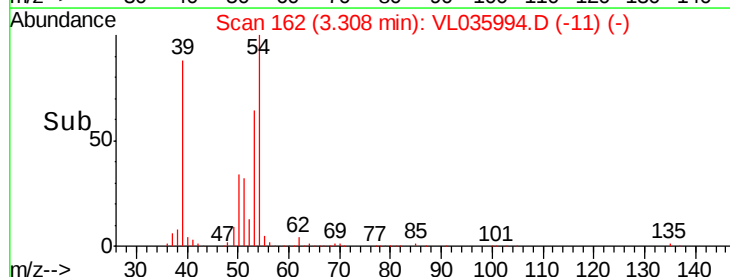
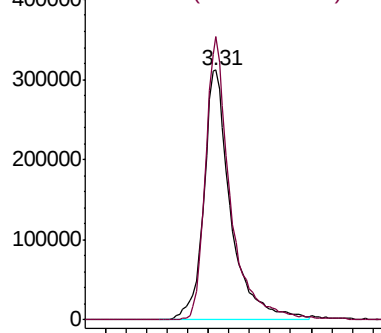
39 100

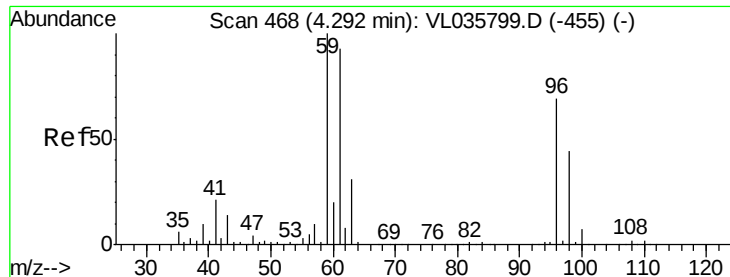
54 105.3 87.1 130.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.356 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

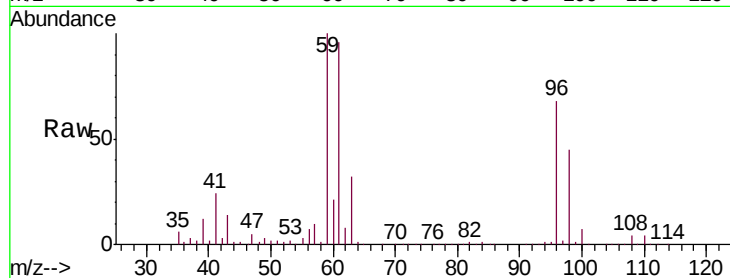
VSTDCCC010

Tgt Ion: 59 Resp: 1629068

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.4



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

800000

600000

400000

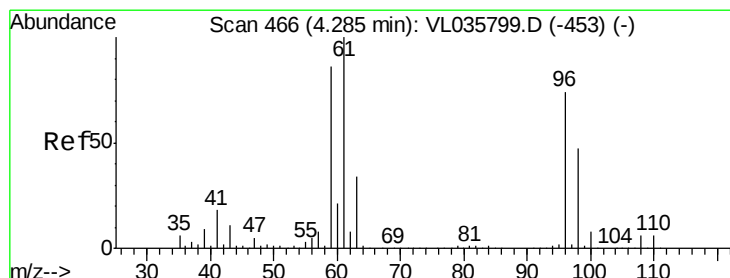
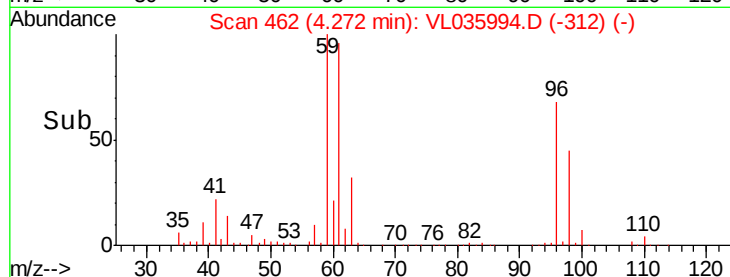
200000

0

4.27

4.20 4.30 4.40

Time-->



#18

1,1-Dichloroethene

Concen: 10.081 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

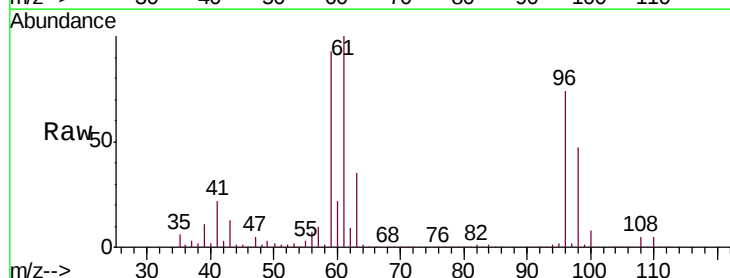
Tgt Ion: 96 Resp: 1001145

Ion Ratio Lower Upper

96 100

61 135.5 108.5 162.7

98 63.1 50.7 76.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

600000

400000

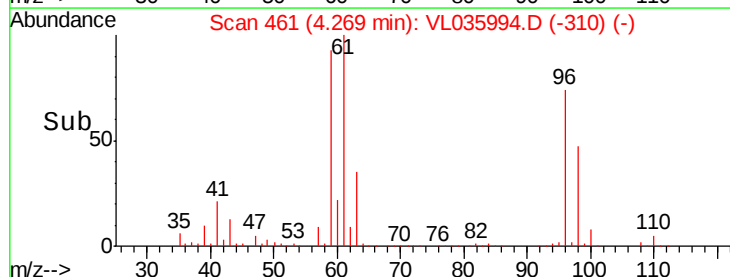
200000

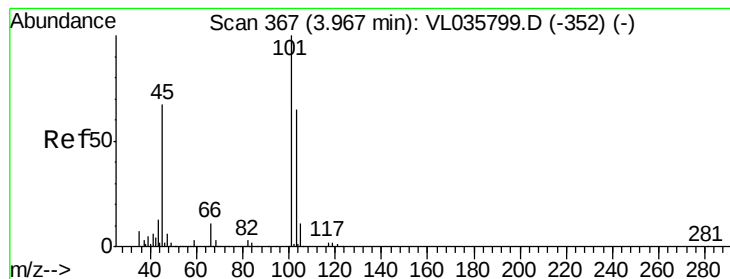
0

4.27

4.20 4.30 4.40

Time-->





#19

Isopropyl Alcohol

Concen: 9.890 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

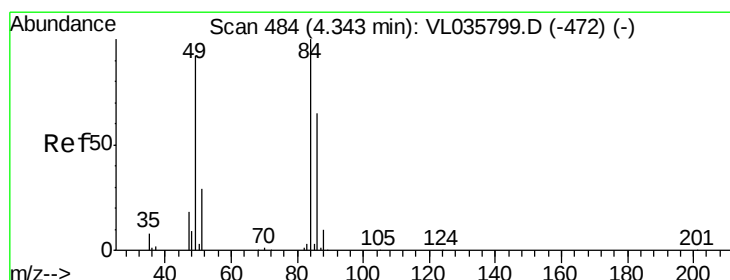
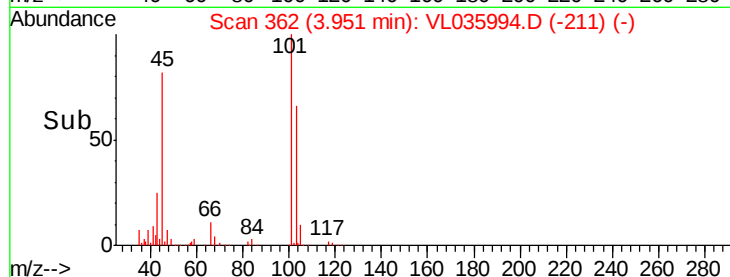
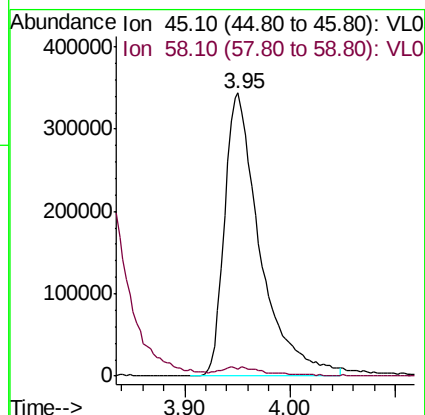
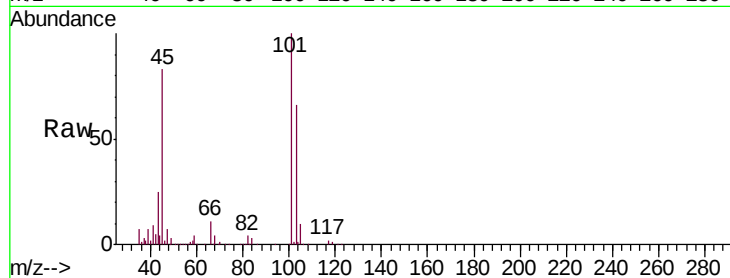
VSTDCCC010

Tgt Ion: 45 Resp: 798532

Ion Ratio Lower Upper

45 100

58 3.8 2.6 3.8



#20

Methylene Chloride

Concen: 9.070 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Tgt Ion: 84 Resp: 838920

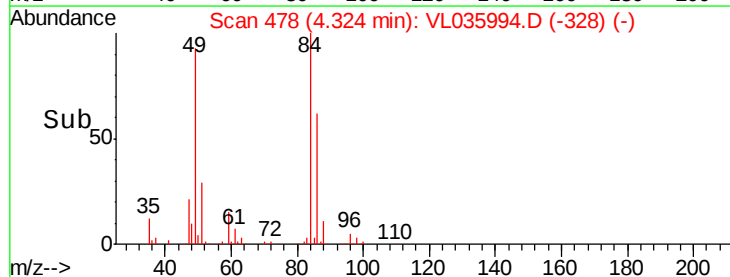
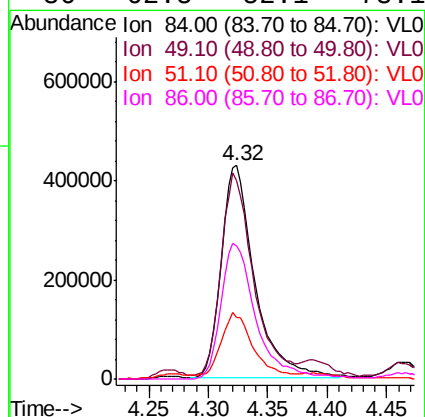
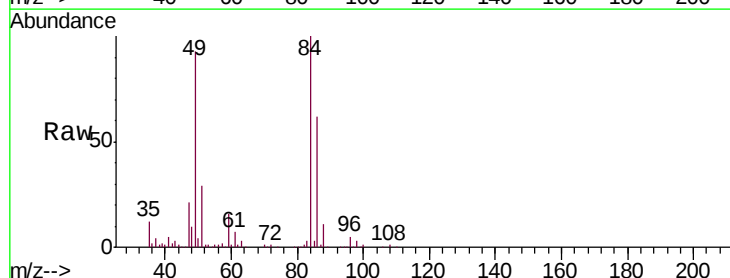
Ion Ratio Lower Upper

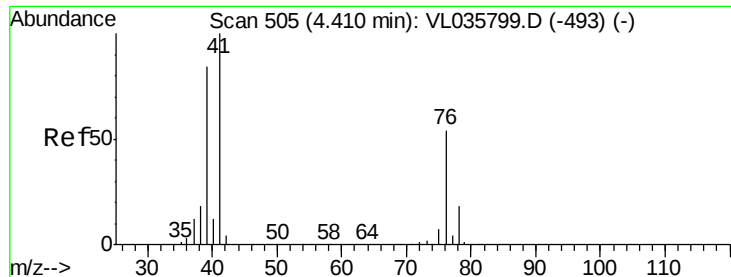
84 100

49 91.6 73.8 110.8

51 27.8 23.0 34.4

86 62.5 52.1 78.1





#21

Allyl Chloride

Concen: 10.344 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

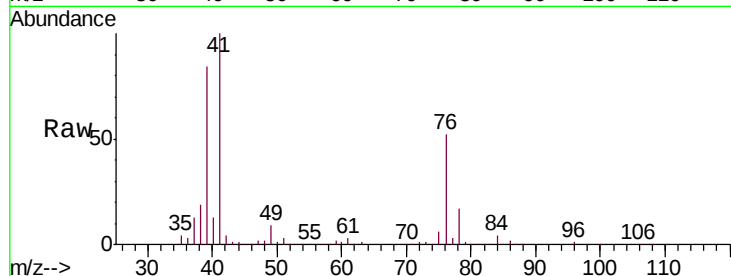
Tgt Ion: 41 Resp: 734917

Ion Ratio Lower Upper

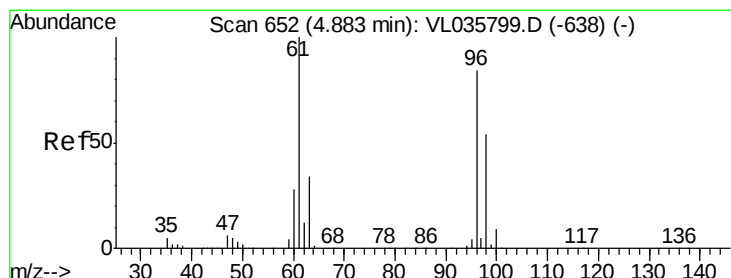
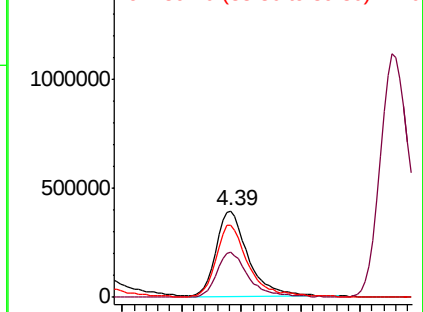
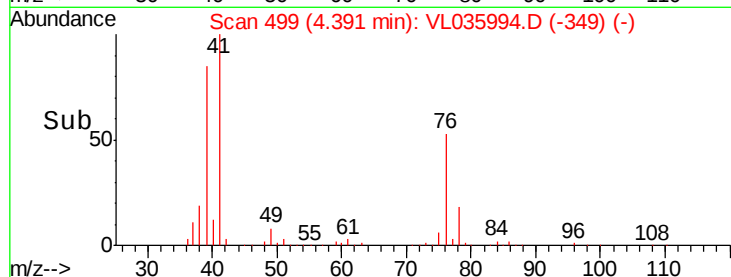
41 100

76 52.9 42.6 63.8

39 85.1 67.0 100.4



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.016 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

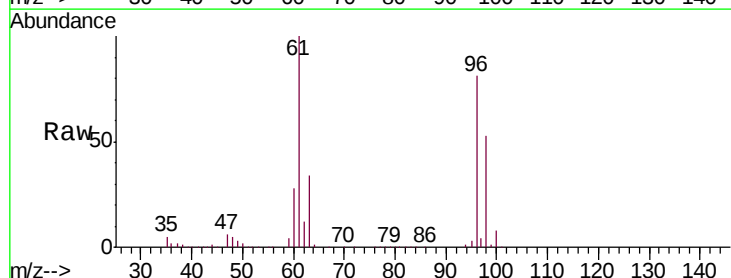
Tgt Ion: 96 Resp: 1008425

Ion Ratio Lower Upper

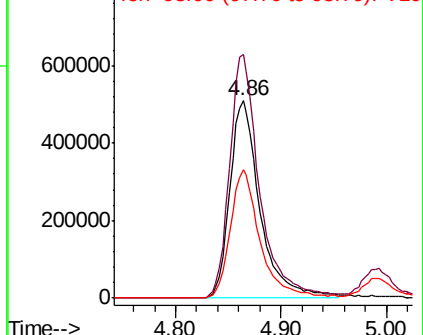
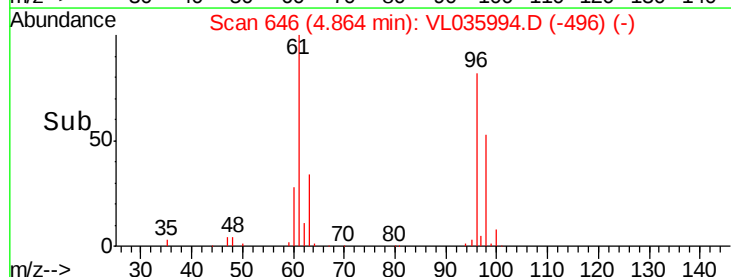
96 100

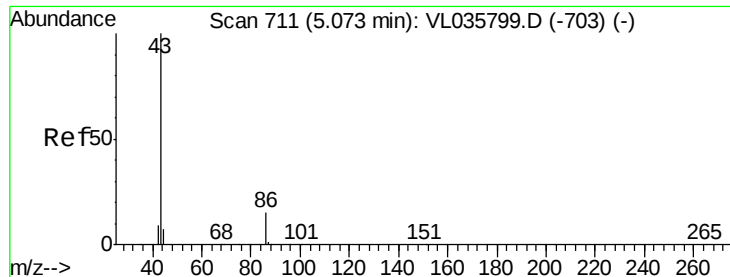
61 123.6 95.4 143.0

98 64.9 51.8 77.6



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0



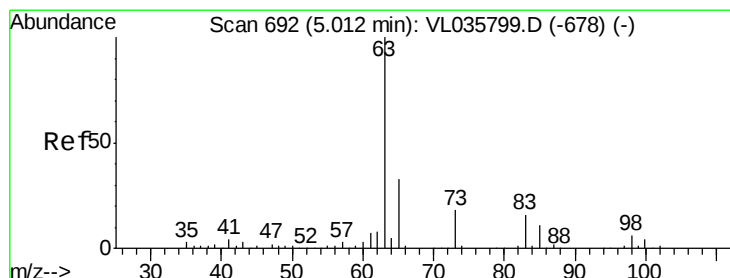
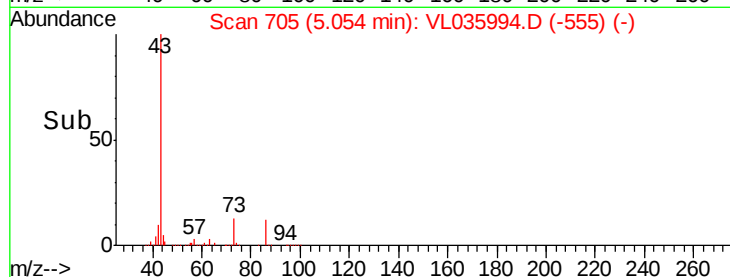
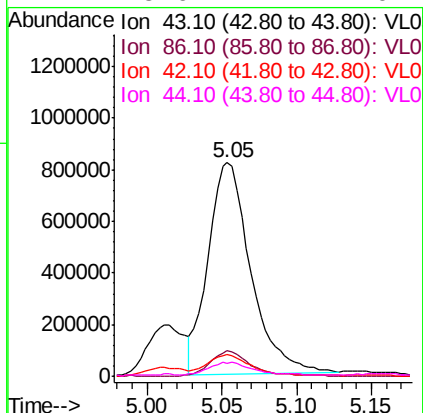
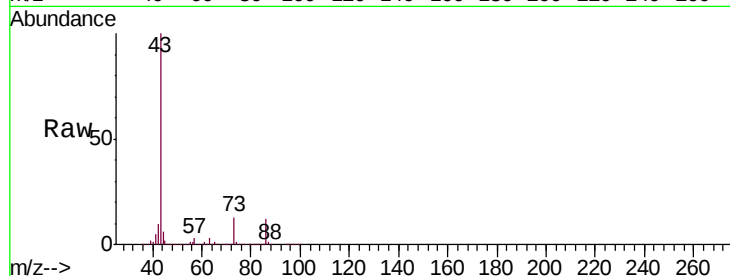


#23  
 Vinyl Acetate  
 Concen: 8.782 ppbv  
 RT: 5.05 min Scan# 705  
 Delta R.T. -0.02 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 1617261

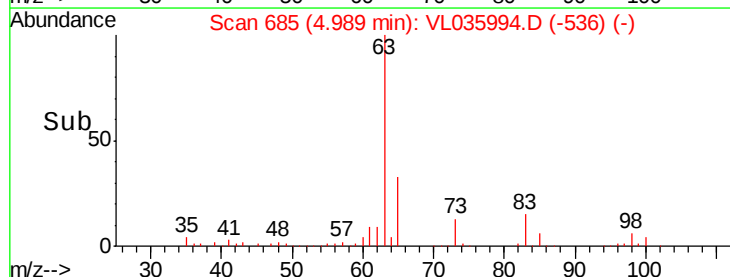
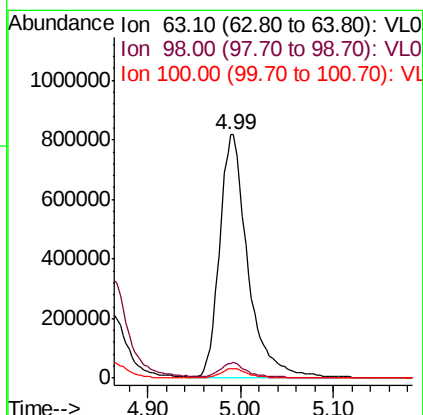
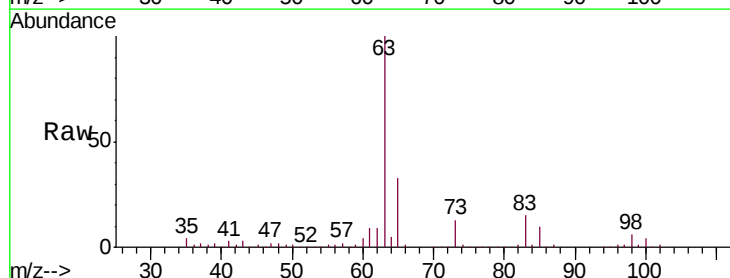
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 12.3  | 9.8   | 14.6  |
| 42  | 10.0  | 8.1   | 12.1  |
| 44  | 5.6   | 4.2   | 6.4   |

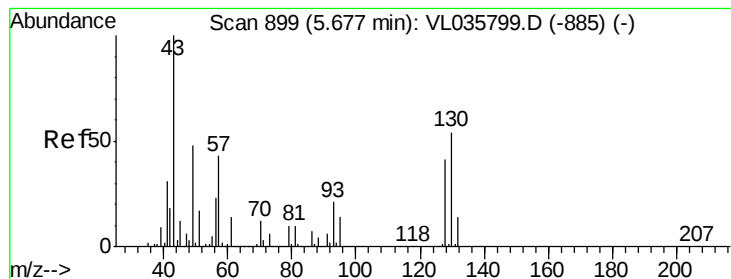


#24  
 1,1-Dichloroethane  
 Concen: 9.754 ppbv  
 RT: 4.99 min Scan# 685  
 Delta R.T. -0.02 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion: 63 Resp: 1711450

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 6.0   | 3.0   | 9.2   |
| 100 | 3.7   | 1.8   | 5.4   |





#25

Ethyl Acetate

Concen: 10.123 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 2620034

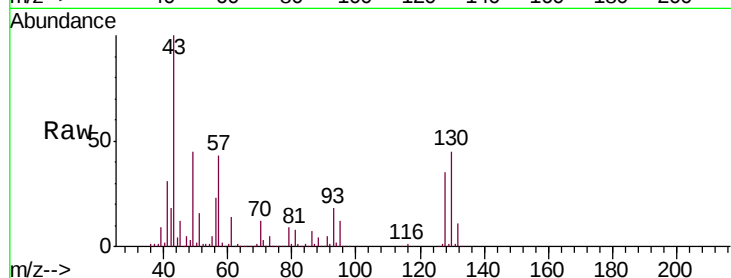
Ion Ratio Lower Upper

43 100

45 10.7 8.5 12.7

61 13.3 10.7 16.1

70 10.1 8.6 12.8

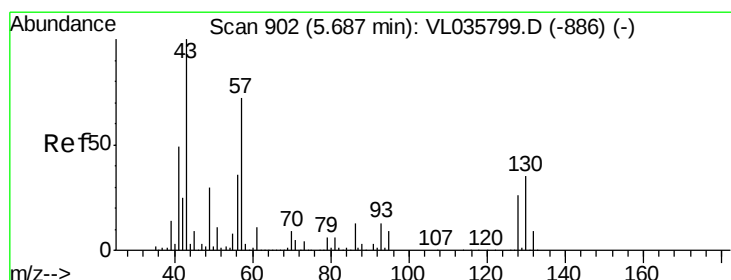
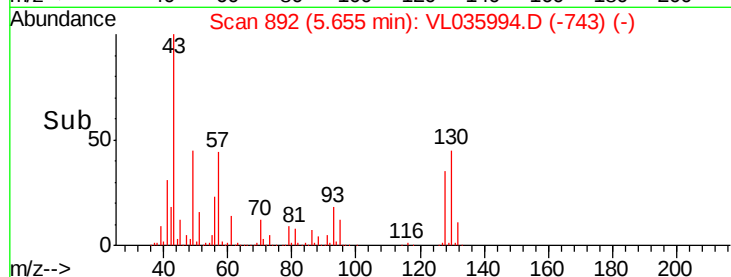
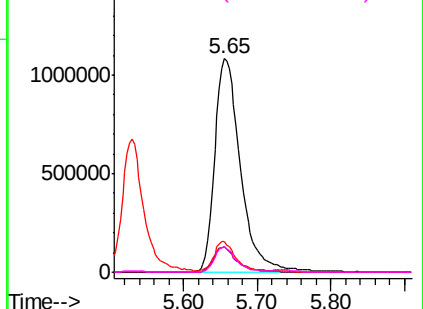


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.576 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Tgt Ion: 57 Resp: 1366854

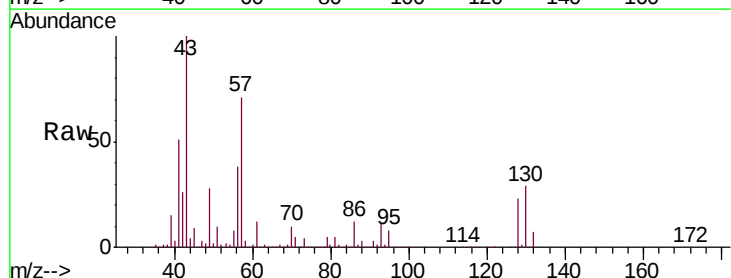
Ion Ratio Lower Upper

57 100

41 77.0 58.9 88.3

43 192.3 150.2 225.2

56 54.5 42.4 63.6

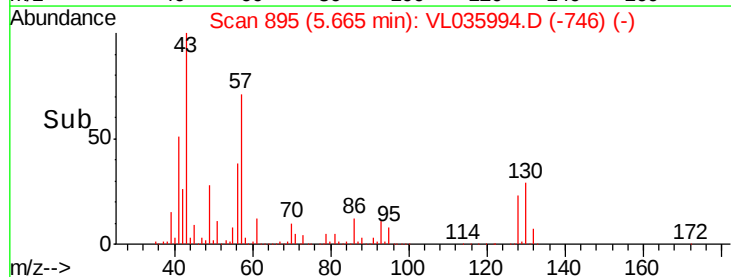
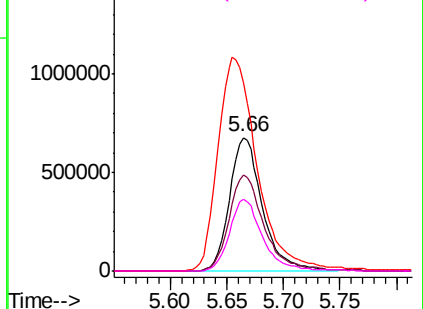


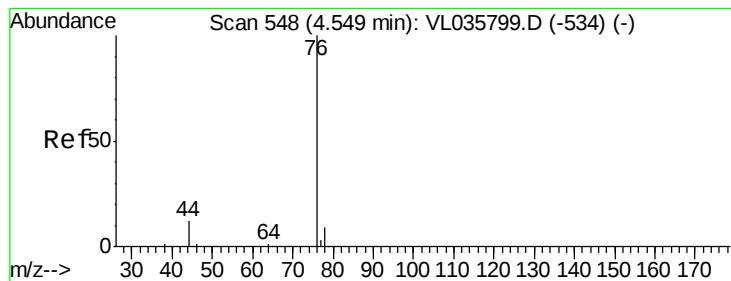
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.350 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

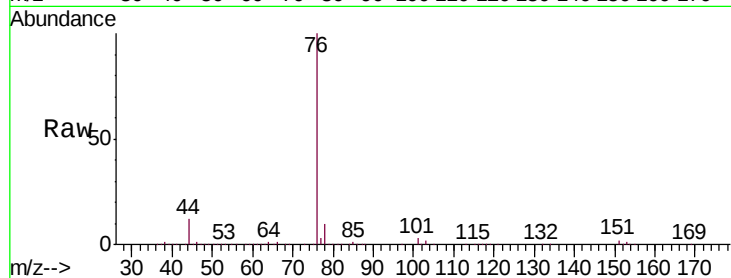
Tgt Ion: 76 Resp: 2213627

Ion Ratio Lower Upper

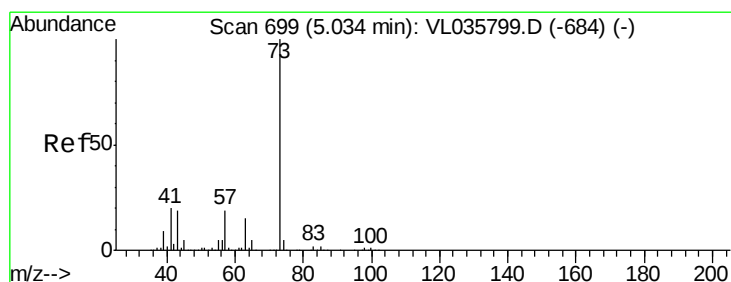
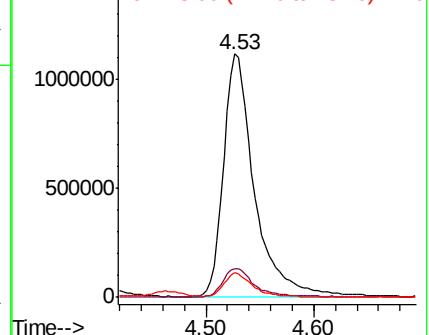
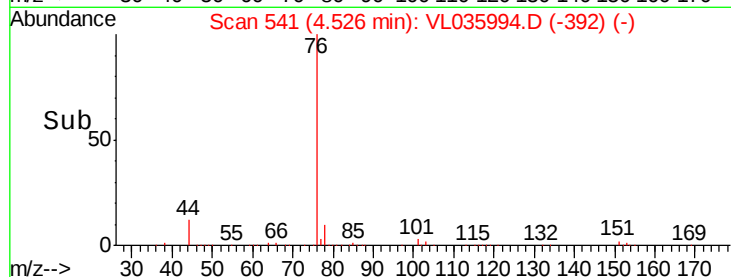
76 100

44 12.0 9.9 14.9

78 10.0 8.1 12.1



Abundance Ion 76.00 (75.70 to 76.70): VL0  
1500000 Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 8.768 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.02 min

Lab File: VL035994.D

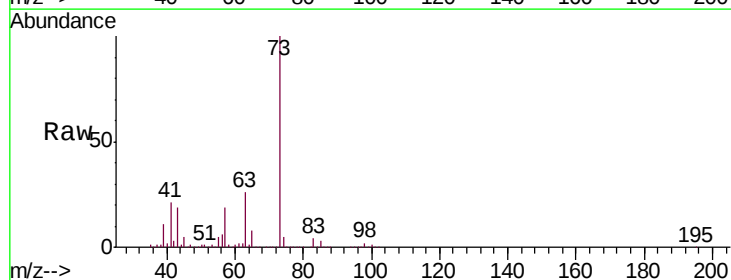
Acq: 24 Nov 2020 11:30

Tgt Ion: 73 Resp: 2247510

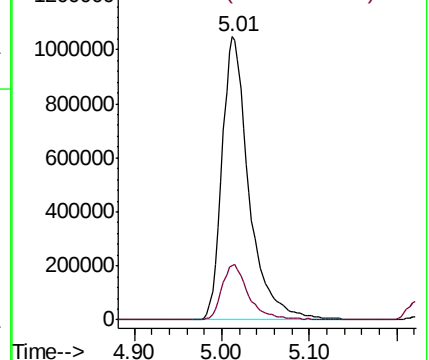
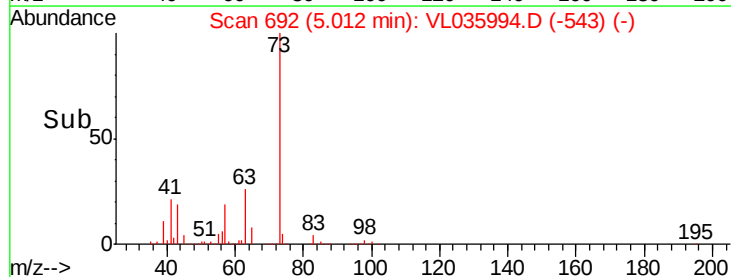
Ion Ratio Lower Upper

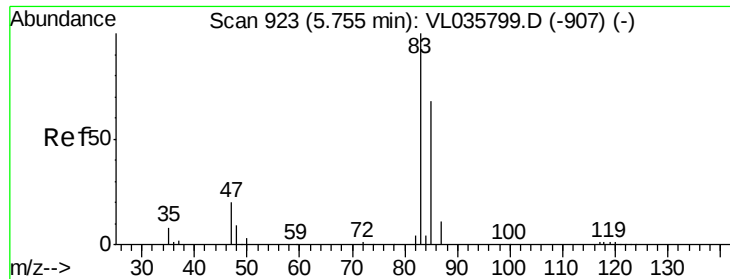
73 100

57 19.5 15.4 23.2



Abundance Ion 73.10 (72.80 to 73.80): VL0  
1200000 Ion 57.10 (56.80 to 57.80): VL0

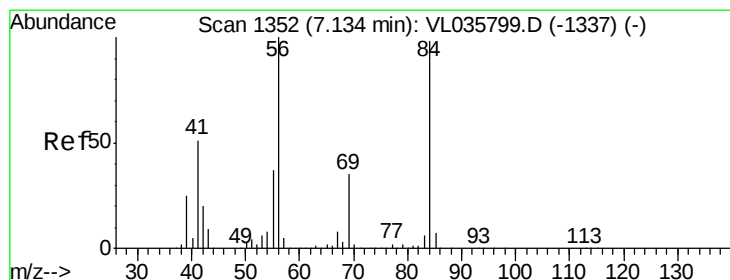
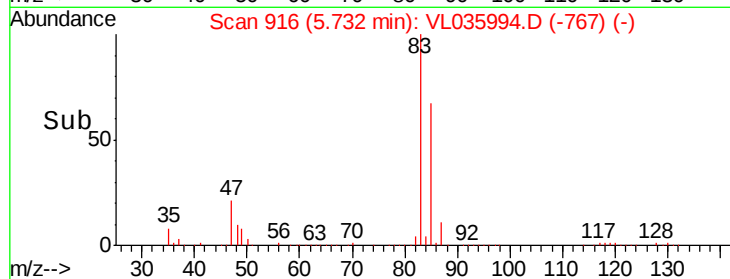
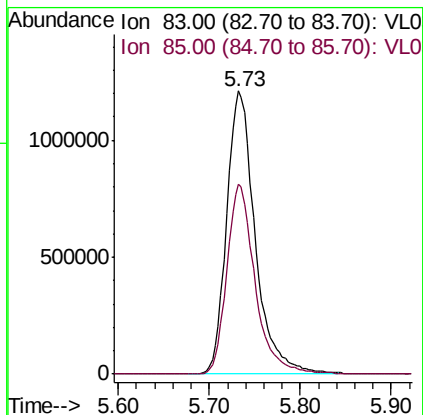
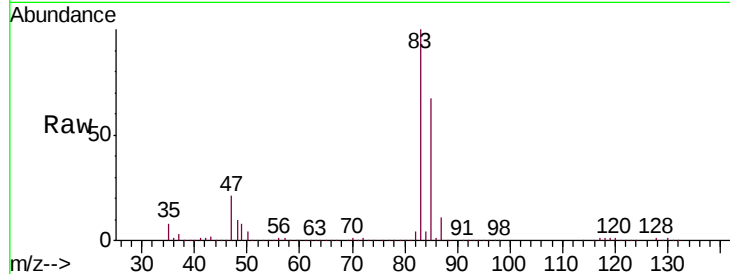




#29  
Chloroform  
Concen: 9.421 ppbv  
RT: 5.73 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

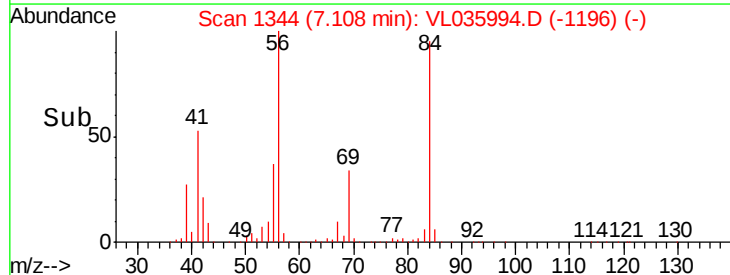
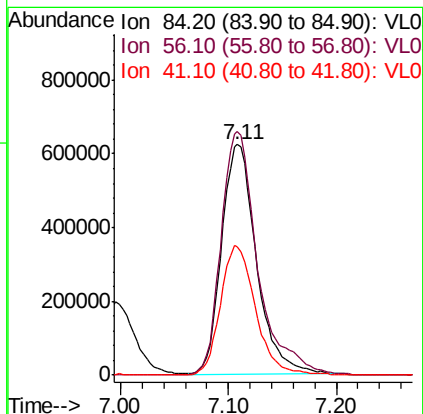
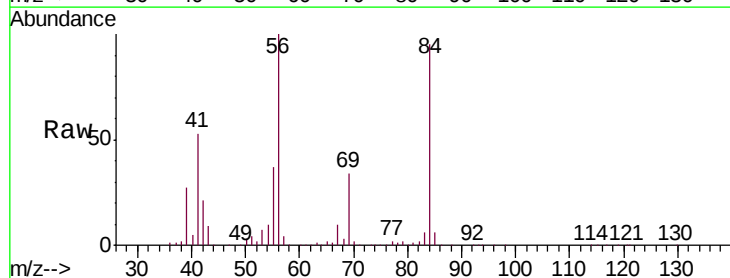
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

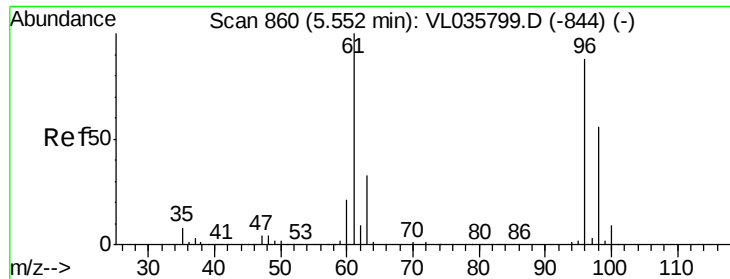
Tgt Ion: 83 Resp: 2643199  
Ion Ratio Lower Upper  
83 100  
85 66.8 54.6 81.8



#30  
Cyclohexane  
Concen: 9.021 ppbv  
RT: 7.11 min Scan# 1344  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 84 Resp: 1402366  
Ion Ratio Lower Upper  
84 100  
56 111.9 86.4 129.6  
41 56.8 42.1 63.1



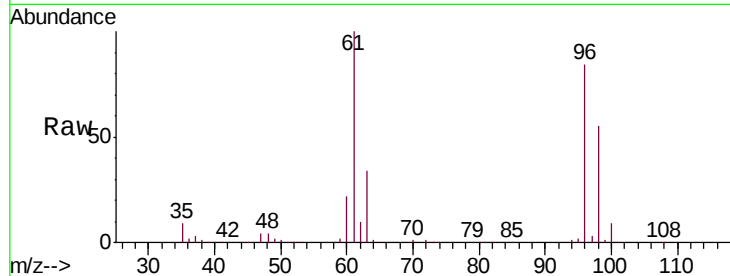


#31

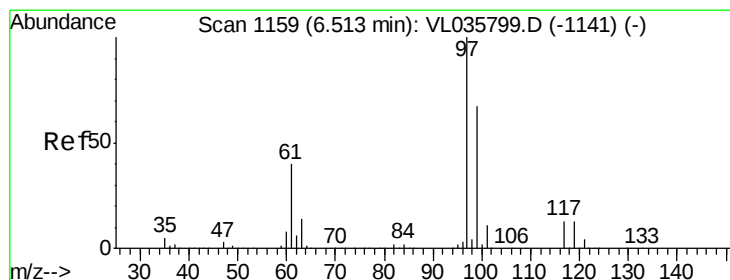
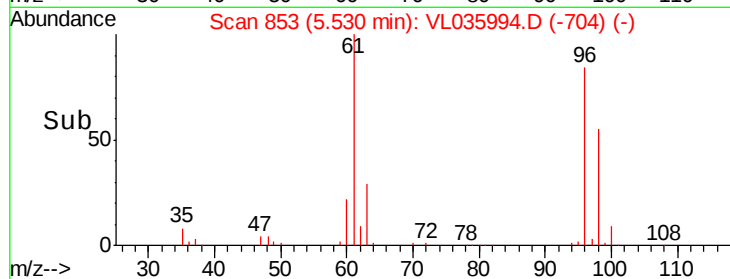
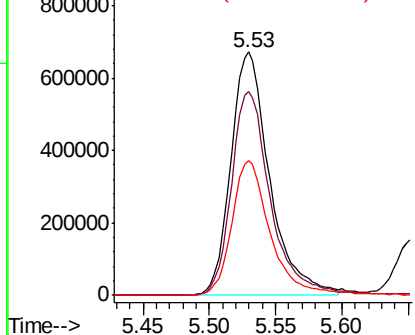
cis-1,2-Dichloroethene  
Concen: 9.308 ppbv  
RT: 5.53 min Scan# 853  
Delta R.T. -0.02 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 61 Resp: 1366844  
Ion Ratio Lower Upper  
61 100  
96 83.8 70.3 105.5  
98 55.2 45.0 67.6



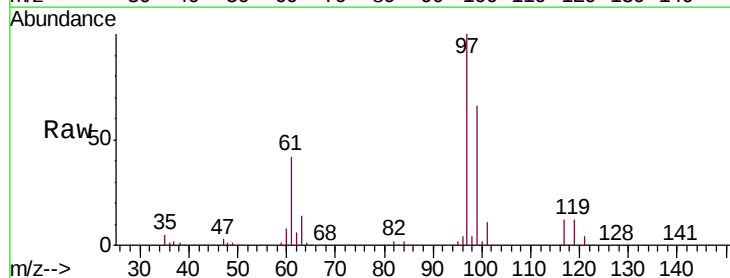
Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



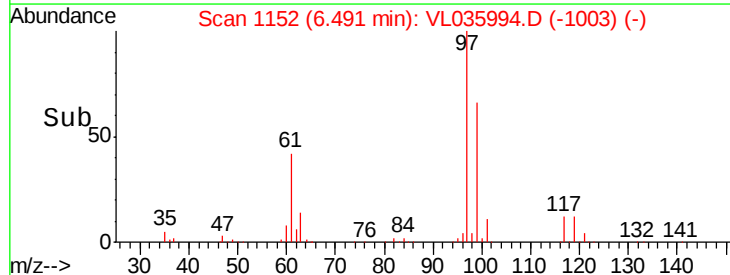
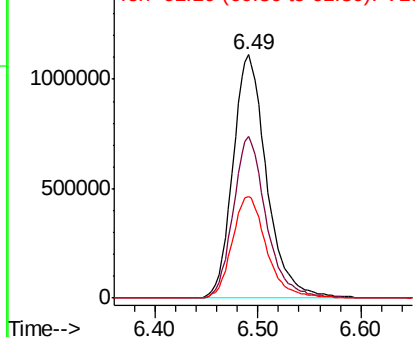
#32

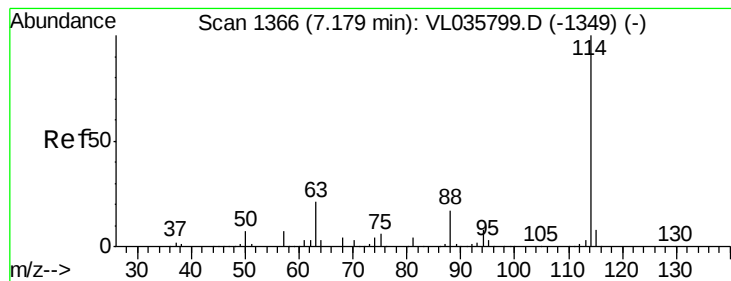
1,1,1-Trichloroethane  
Concen: 8.637 ppbv  
RT: 6.49 min Scan# 1152  
Delta R.T. -0.02 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 97 Resp: 2528529  
Ion Ratio Lower Upper  
97 100  
99 65.5 52.3 78.5  
61 42.8 32.0 48.0



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

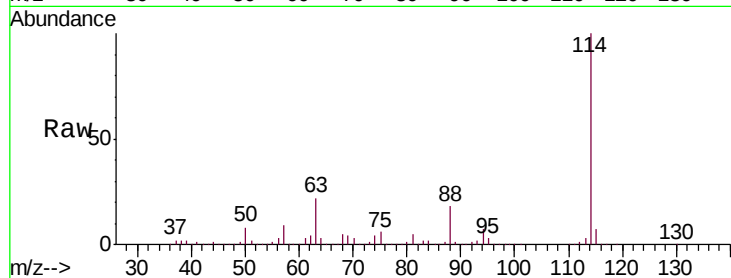
Tgt Ion:114 Resp: 4459617

Ion Ratio Lower Upper

114 100

63 21.5 16.1 24.1

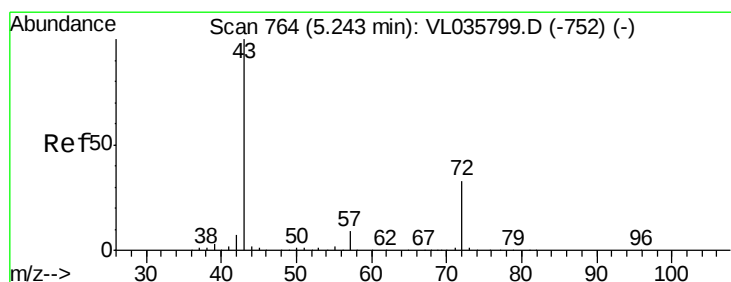
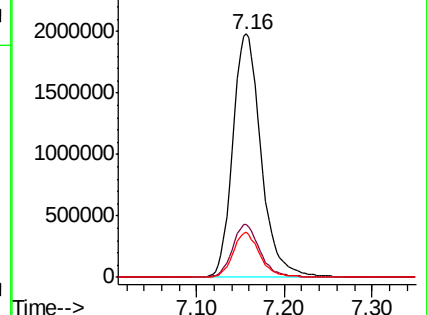
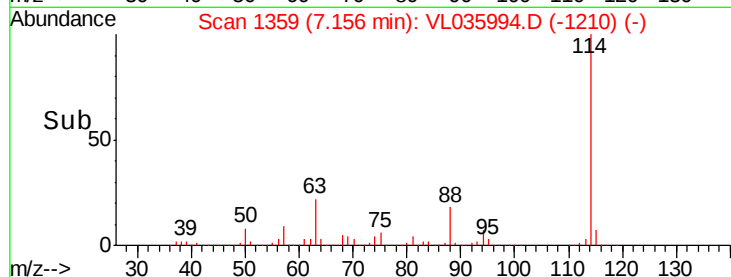
88 17.5 13.7 20.5



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 11.134 ppbv

RT: 5.22 min Scan# 758

Delta R.T. -0.02 min

Lab File: VL035994.D

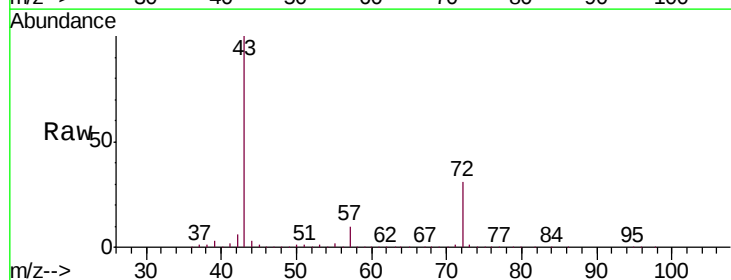
Acq: 24 Nov 2020 11:30

Tgt Ion: 43 Resp: 1611488

Ion Ratio Lower Upper

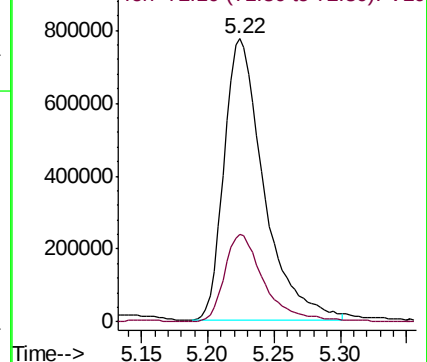
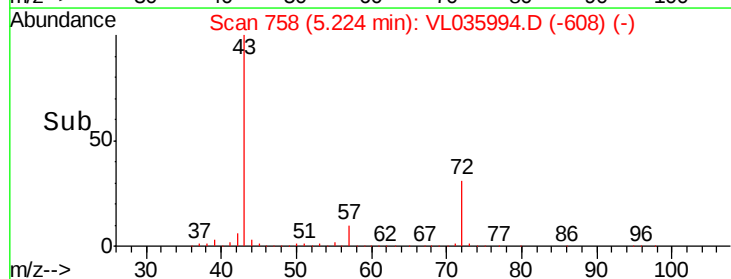
43 100

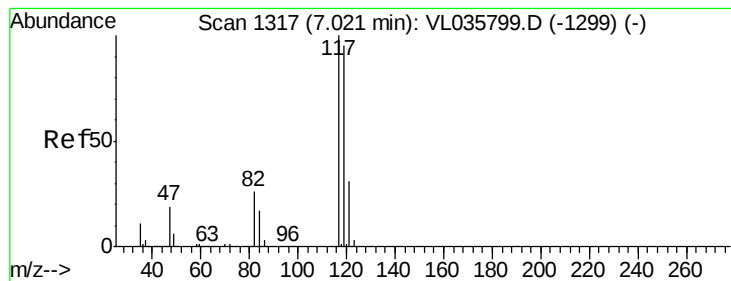
72 31.5 26.5 39.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.570 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

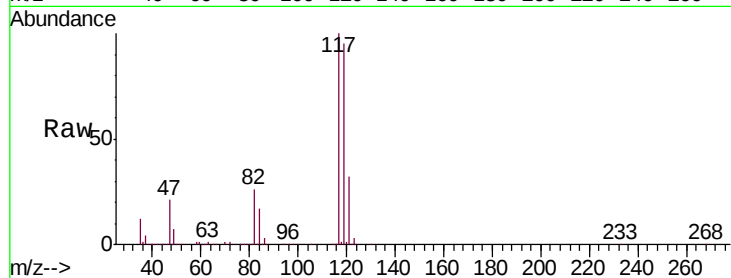
Tgt Ion:117 Resp: 2518501

Ion Ratio Lower Upper

117 100

119 95.2 75.6 113.4

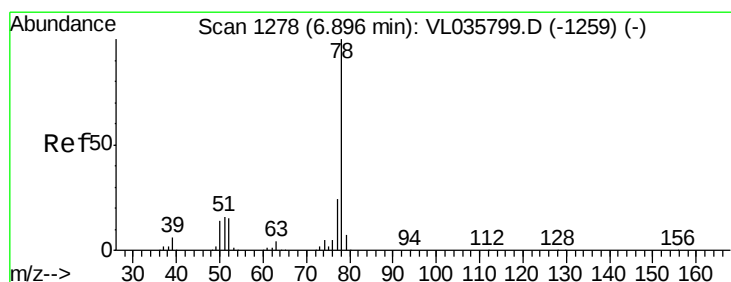
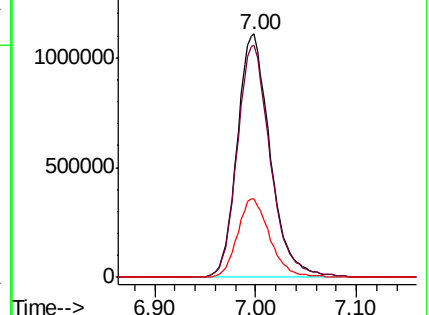
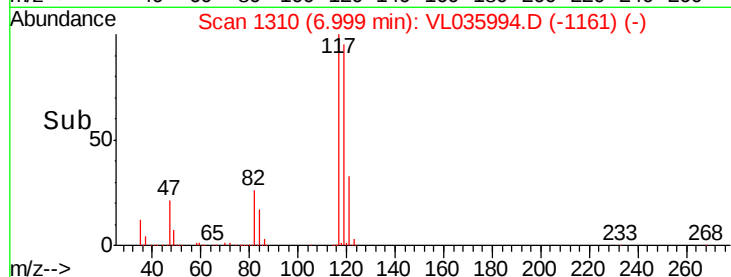
121 32.5 25.1 37.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.935 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

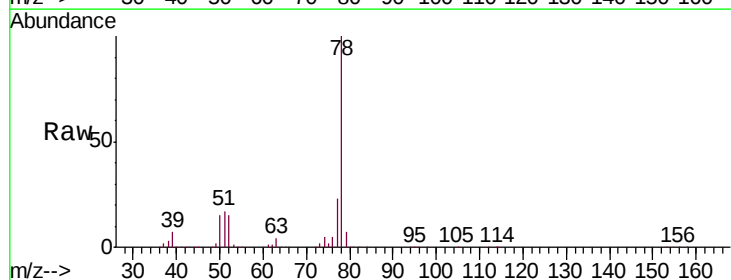
Tgt Ion: 78 Resp: 3293772

Ion Ratio Lower Upper

78 100

77 23.2 19.3 28.9

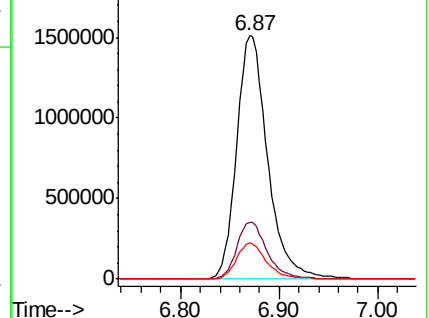
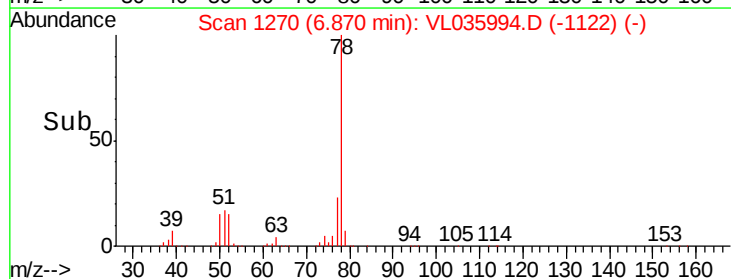
50 15.0 11.4 17.2

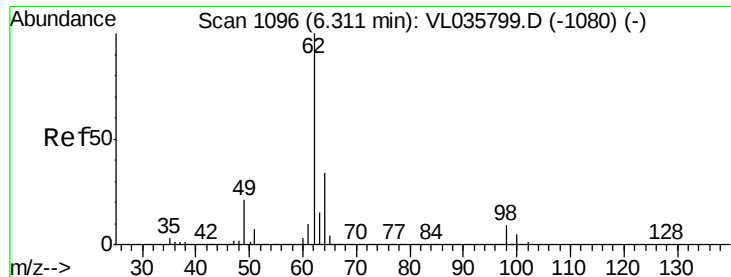


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

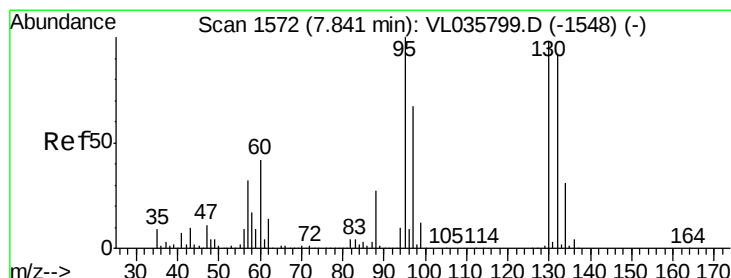
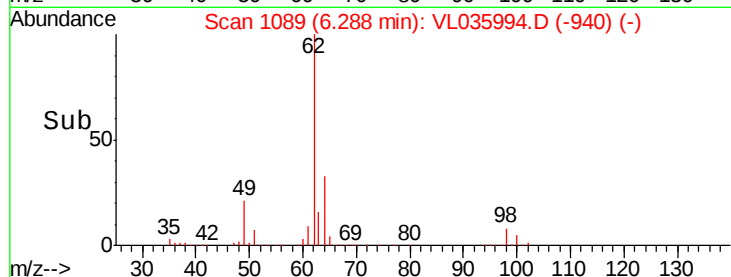
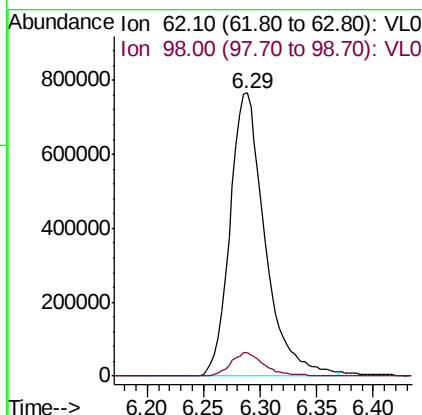
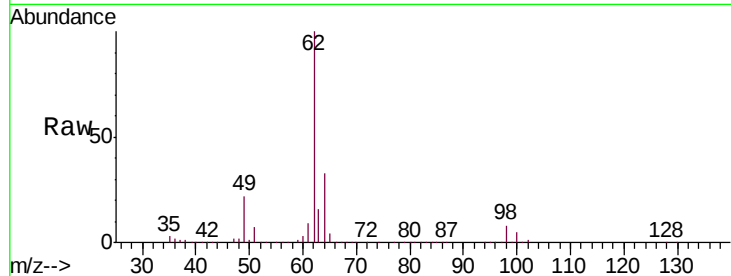




#37  
 1,2-Dichloroethane  
 Concen: 10.986 ppbv  
 RT: 6.29 min Scan# 1089  
 Delta R.T. -0.02 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

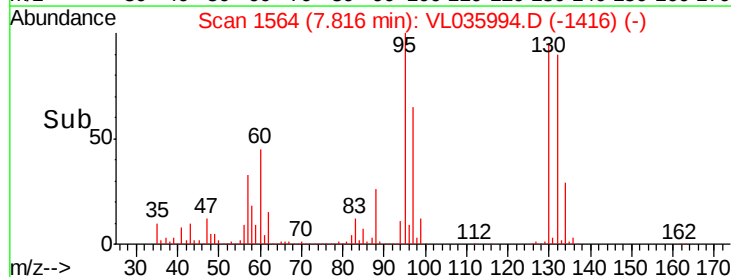
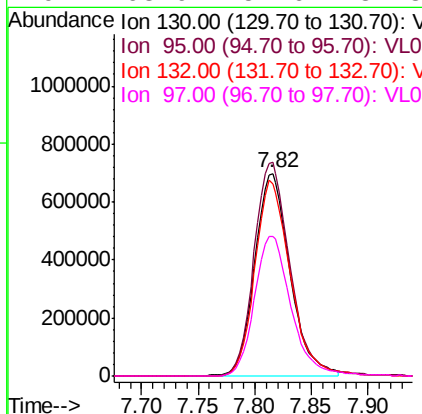
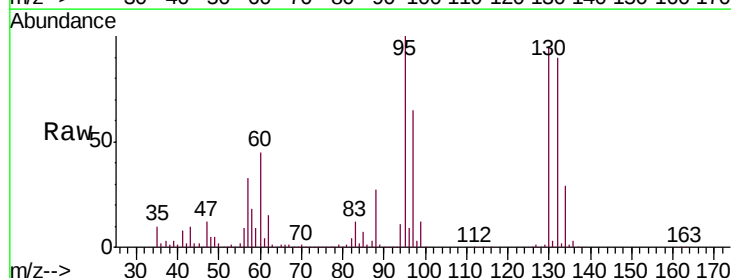
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

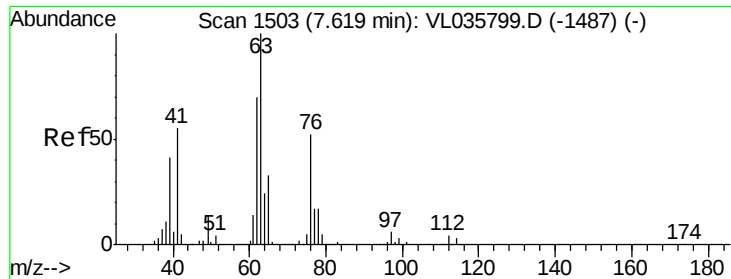
Tgt Ion: 62 Resp: 1650000  
 Ion Ratio Lower Upper  
 62 100  
 98 8.2 6.9 10.3



#38  
 Trichloroethene  
 Concen: 9.370 ppbv  
 RT: 7.82 min Scan# 1564  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion: 130 Resp: 1517431  
 Ion Ratio Lower Upper  
 130 100  
 95 105.3 81.6 122.4  
 132 94.6 75.1 112.7  
 97 68.9 54.6 81.8





#39

1,2-Dichloropropane

Concen: 10.544 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

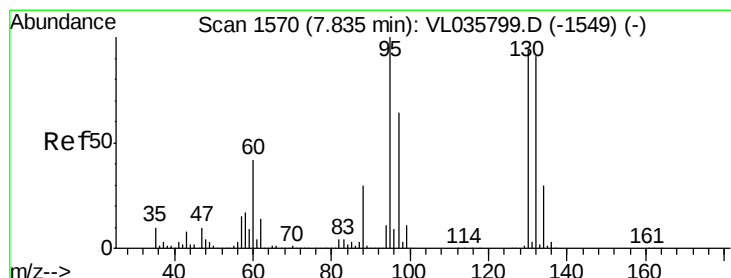
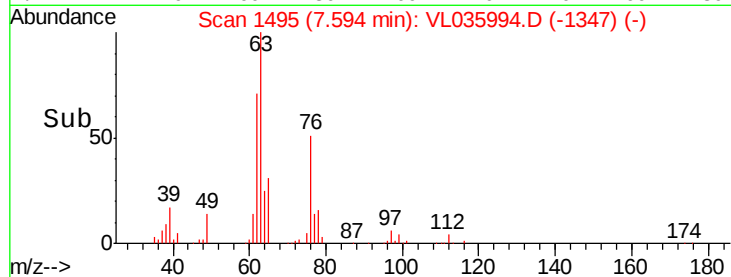
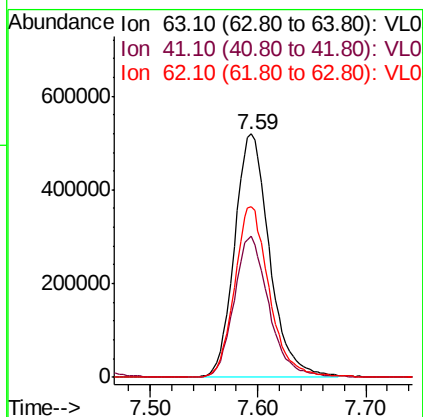
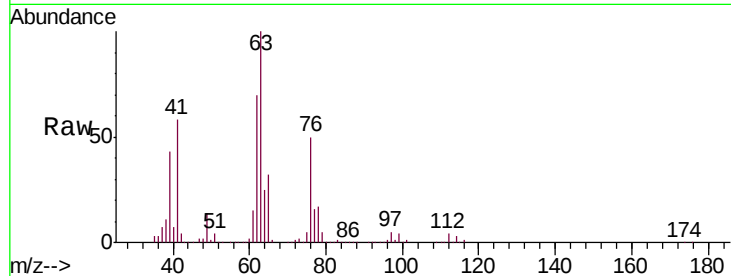
Tgt Ion: 63 Resp: 1176887

Ion Ratio Lower Upper

63 100

41 58.0 43.8 65.6

62 70.1 56.2 84.2



#40

1,4-Dioxane

Concen: 10.377 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Tgt Ion: 88 Resp: 548980

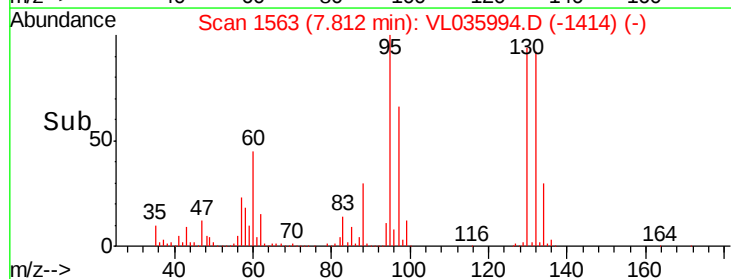
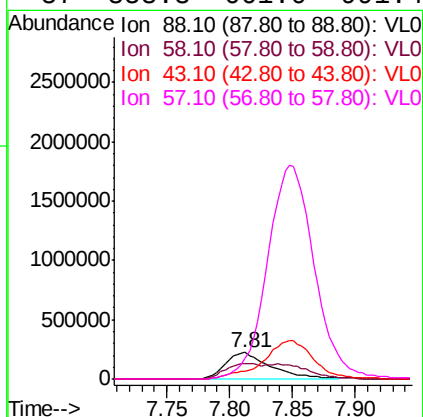
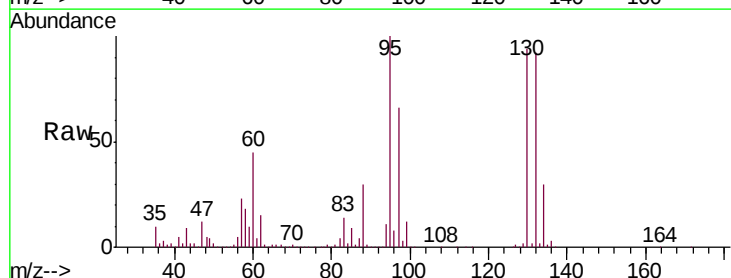
Ion Ratio Lower Upper

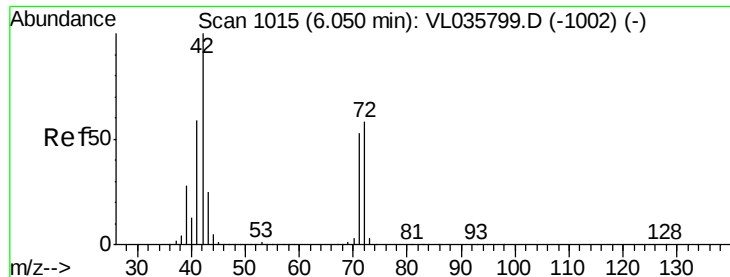
88 100

58 101.8 76.2 114.2

43 165.6 123.1 184.7

57 858.8 661.0 991.4





#41

Tetrahydrofuran

Concen: 11.509 ppbv

RT: 6.03 min Scan# 1008

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

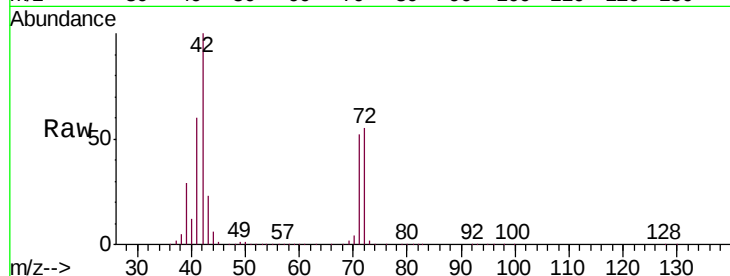
Tgt Ion: 42 Resp: 946368

Ion Ratio Lower Upper

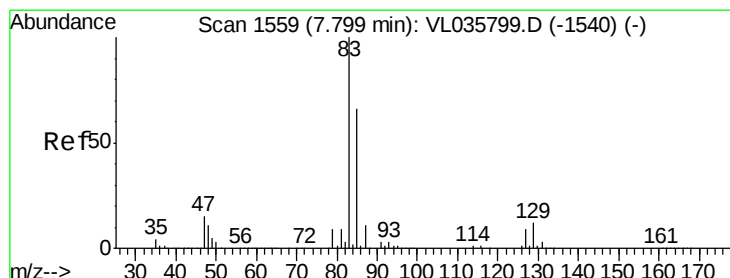
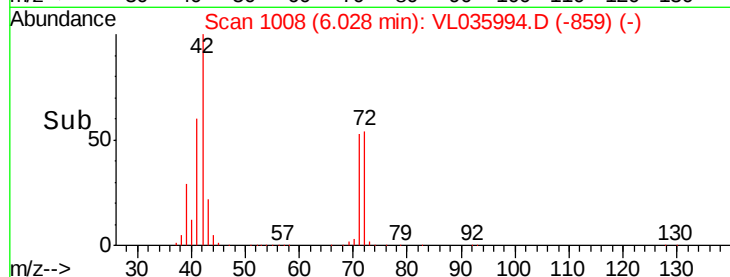
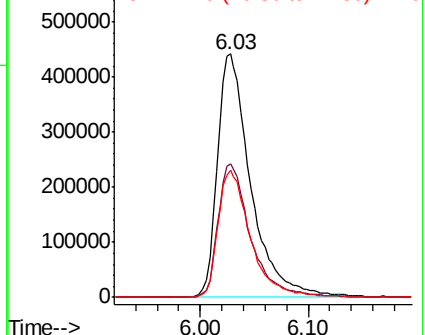
42 100

72 54.1 45.4 68.0

71 51.6 43.4 65.2



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.809 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

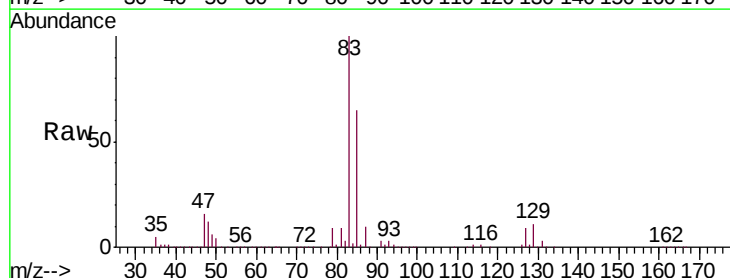
Tgt Ion: 83 Resp: 2739334

Ion Ratio Lower Upper

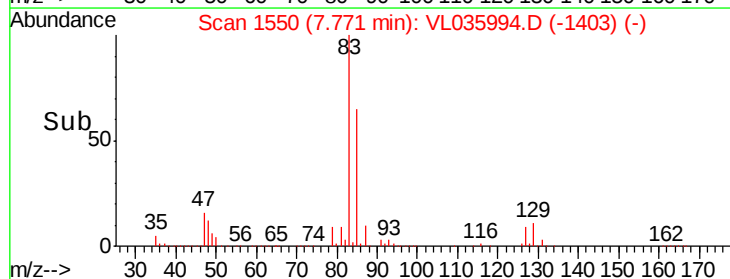
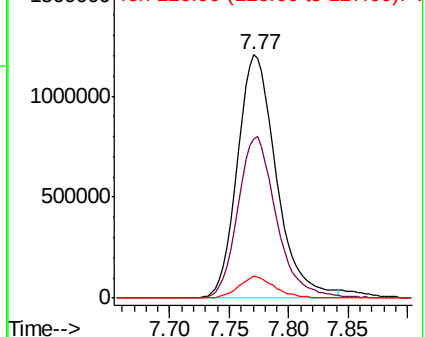
83 100

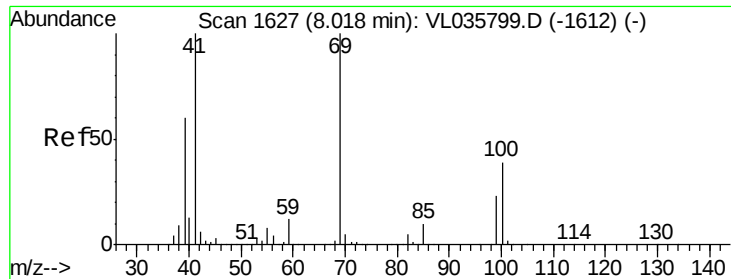
85 65.4 53.1 79.7

127 9.1 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V

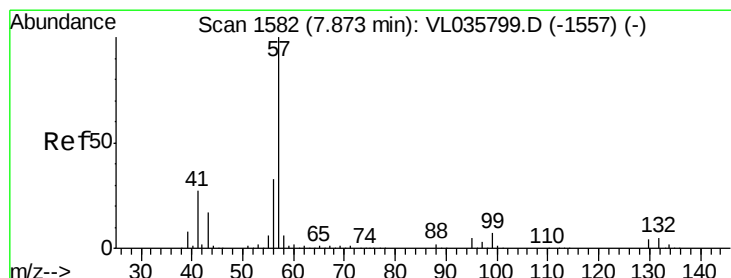
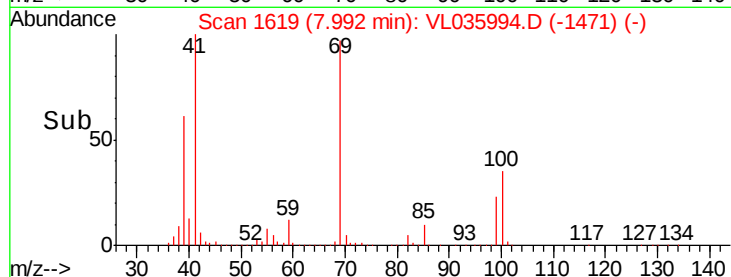
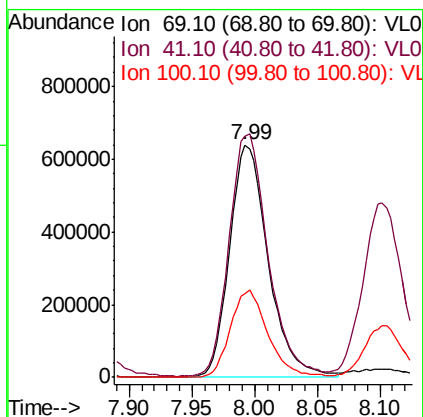
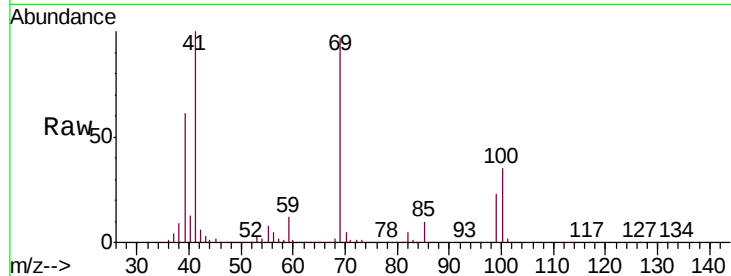




#43  
Methyl Methacrylate  
Concen: 10.829 ppbv  
RT: 7.99 min Scan# 1619  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

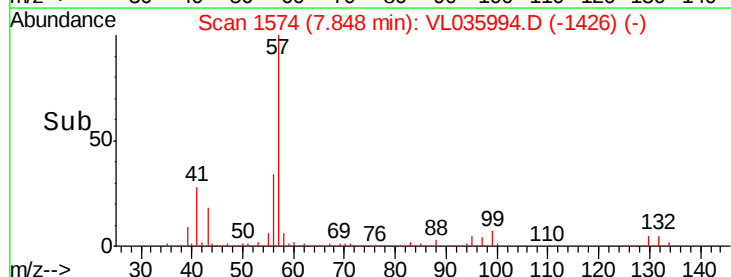
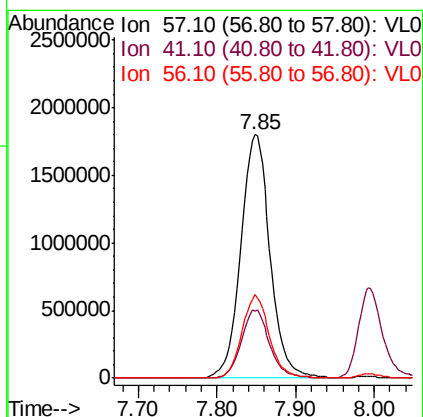
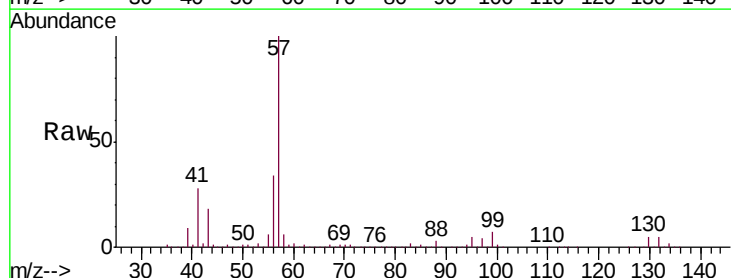
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

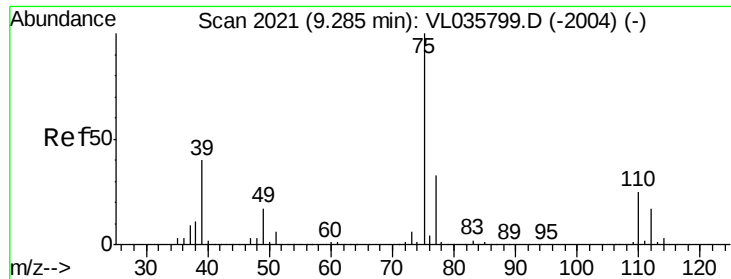
Tgt Ion: 69 Resp: 1369419  
Ion Ratio Lower Upper  
69 100  
41 106.1 81.1 121.7  
100 36.7 31.0 46.4



#44  
2,2,4-Trimethylpentane  
Concen: 10.740 ppbv  
RT: 7.85 min Scan# 1574  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 57 Resp: 4711946  
Ion Ratio Lower Upper  
57 100  
41 27.1 21.0 31.4  
56 32.1 25.4 38.0

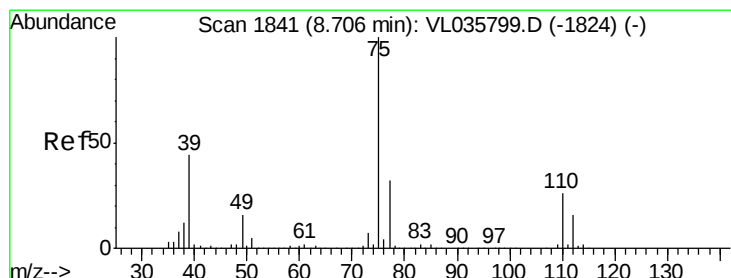
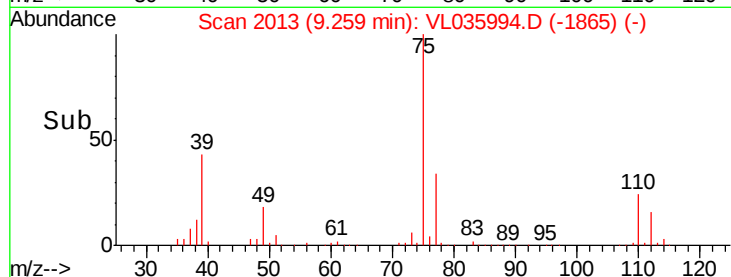
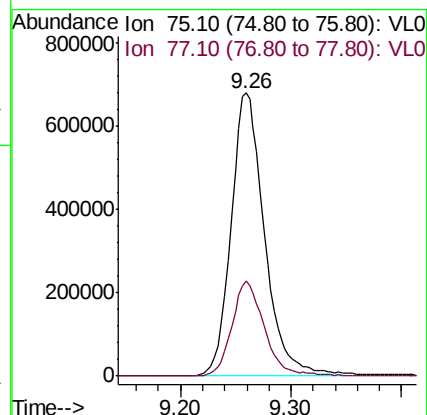
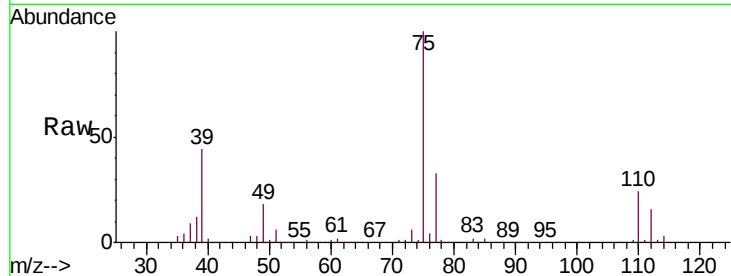




#45  
t-1,3-Dichloropropene  
Concen: 10.603 ppbv  
RT: 9.26 min Scan# 2013  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

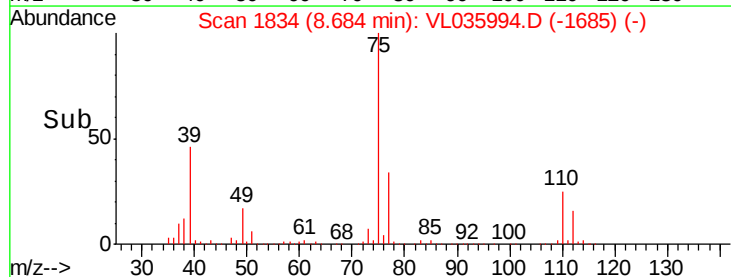
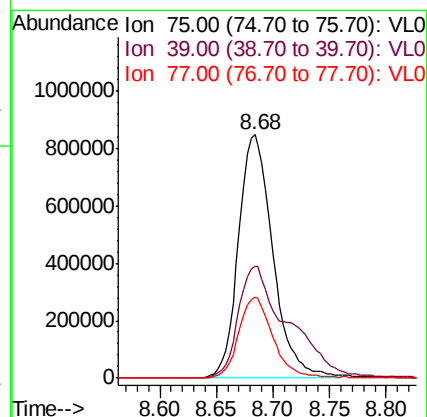
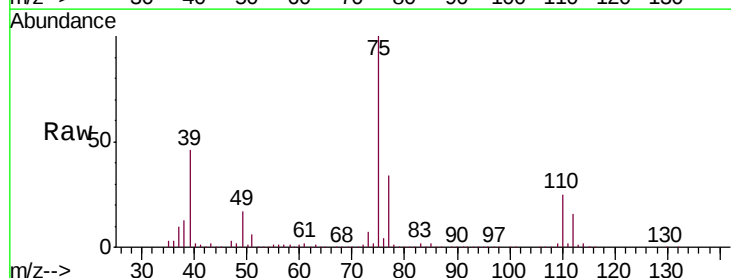
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

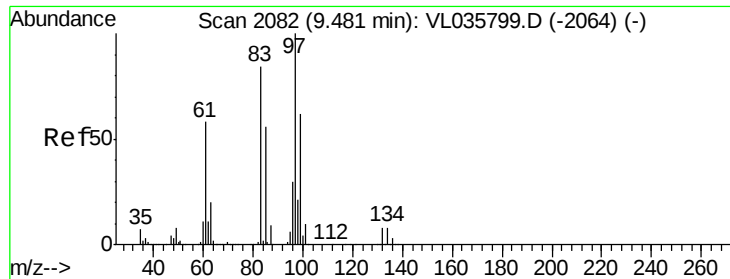
Tgt Ion: 75 Resp: 1421380  
Ion Ratio Lower Upper  
75 100  
77 33.5 26.4 39.6



#46  
cis-1,3-Dichloropropene  
Concen: 10.630 ppbv  
RT: 8.68 min Scan# 1834  
Delta R.T. -0.02 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 75 Resp: 1804725  
Ion Ratio Lower Upper  
75 100  
39 45.8 35.1 52.7  
77 33.5 25.7 38.5



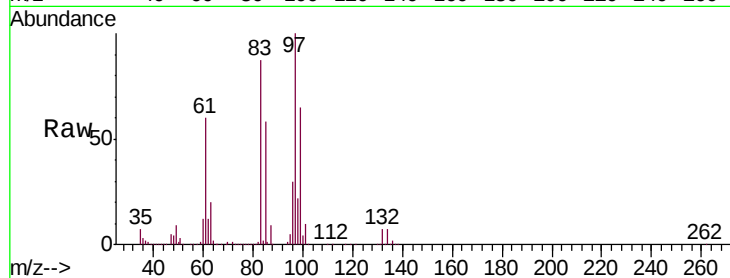


#47  
 1,1,2-Trichloroethane  
 Concen: 10.147 ppbv  
 RT: 9.46 min Scan# 2074  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 97 Resp: 1543311

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.9  | 67.1  | 100.7 |
| 85  | 57.8  | 44.7  | 67.1  |
| 99  | 64.6  | 49.7  | 74.5  |



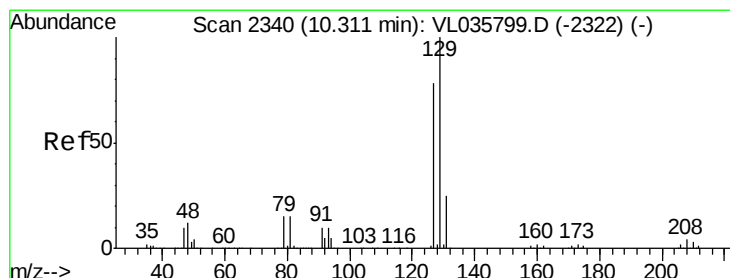
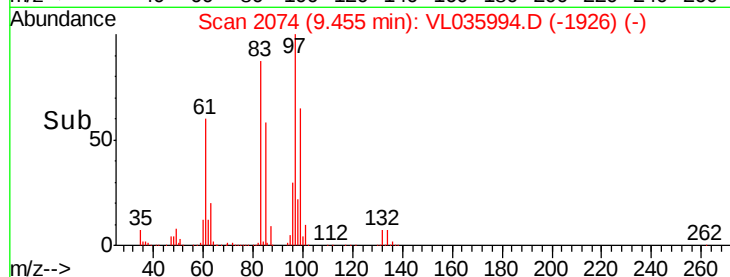
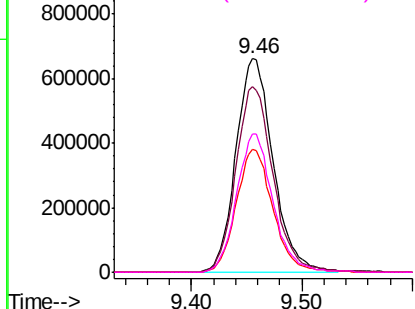
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

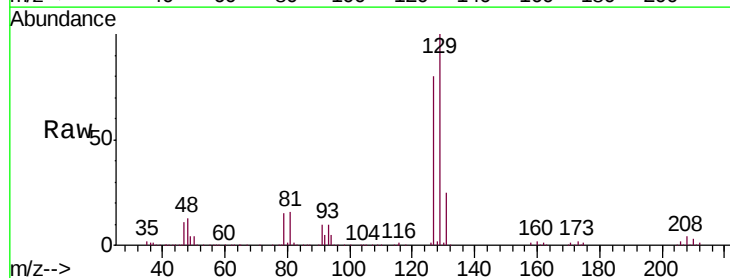
Ion 99.00 (98.70 to 99.70): VL0



#48  
 Dibromochloromethane  
 Concen: 10.713 ppbv  
 RT: 10.28 min Scan# 2332  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion: 129 Resp: 2489372

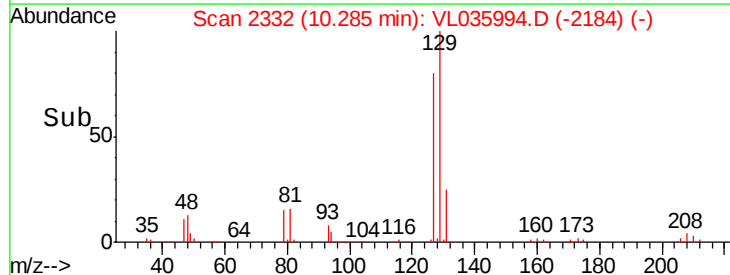
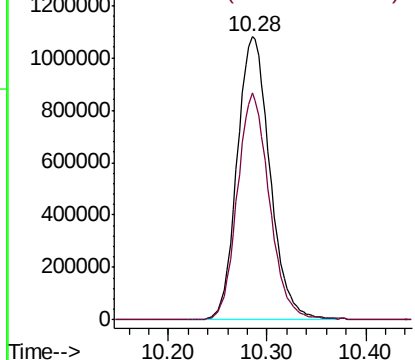
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.6  | 39.2  | 117.6 |

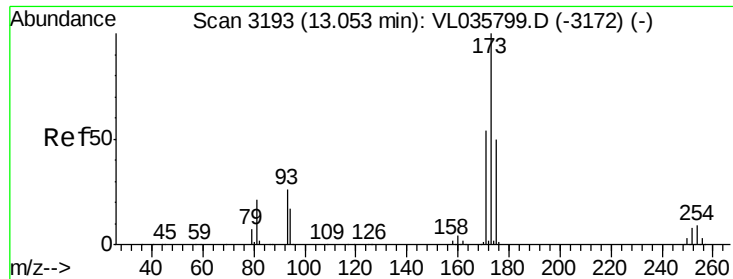


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.407 ppbv

RT: 13.02 min Scan# 3184

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

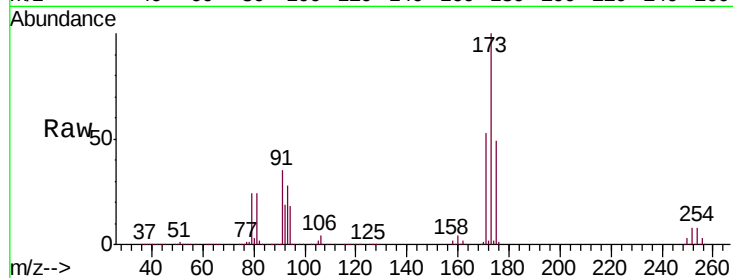
Tgt Ion:173 Resp: 2040509

Ion Ratio Lower Upper

173 100

175 49.6 40.1 60.1

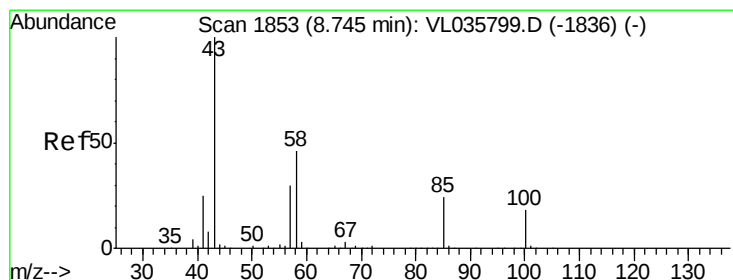
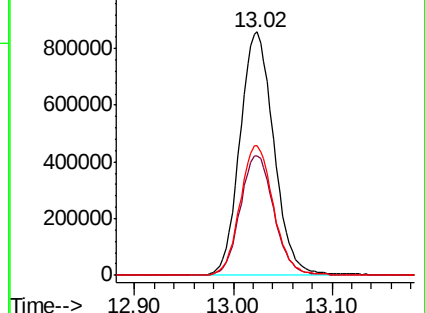
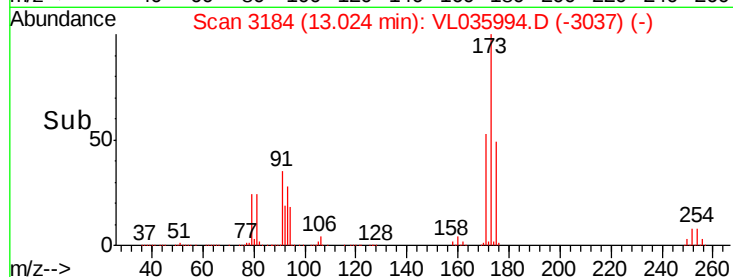
171 53.3 42.6 63.8



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: 11.682 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.02 min

Lab File: VL035994.D

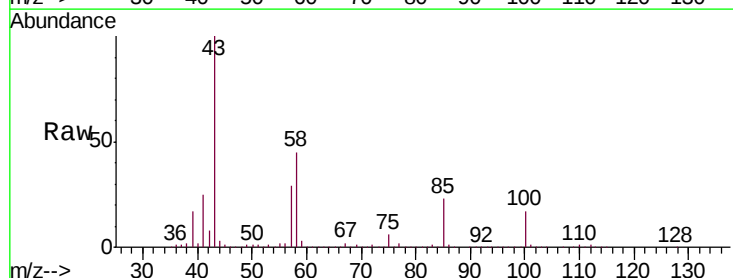
Acq: 24 Nov 2020 11:30

Tgt Ion: 43 Resp: 2585280

Ion Ratio Lower Upper

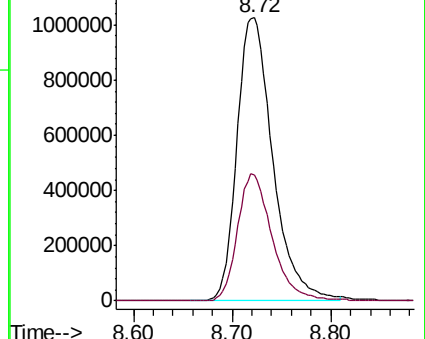
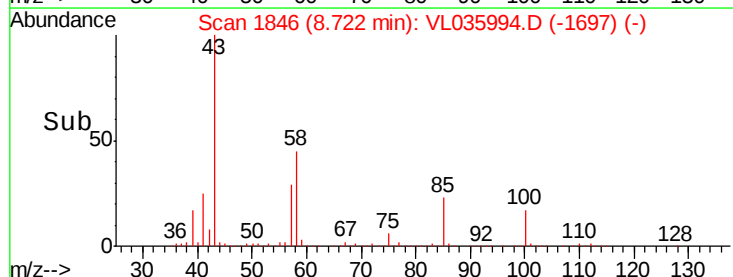
43 100

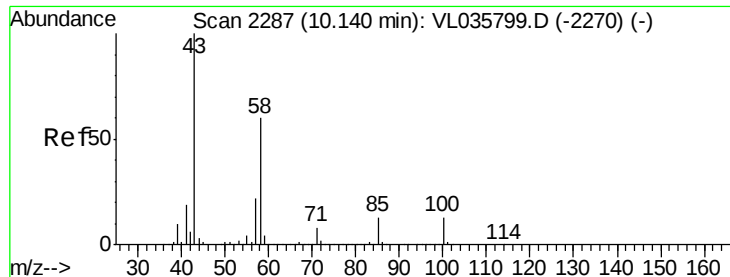
58 43.7 36.0 54.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

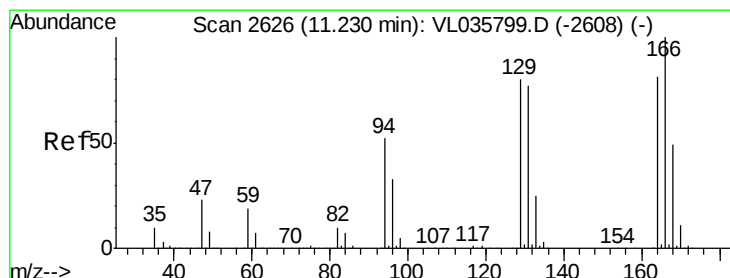
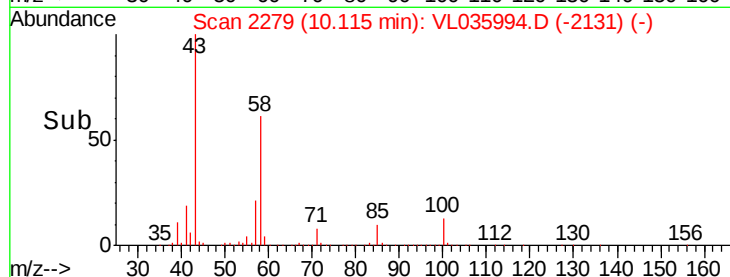
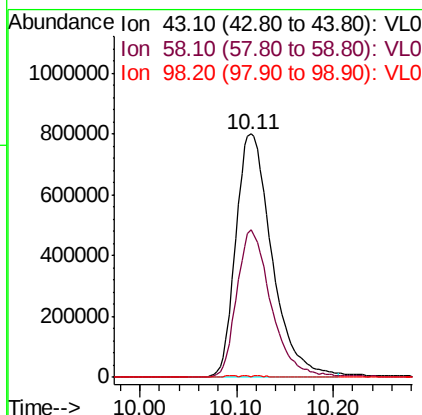
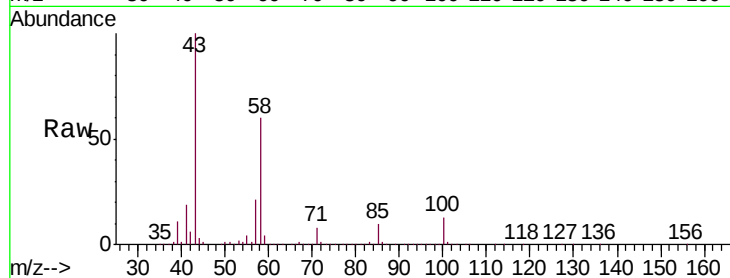




#51  
2-Hexanone  
Concen: 11.691 ppbv  
RT: 10.11 min Scan# 2279  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

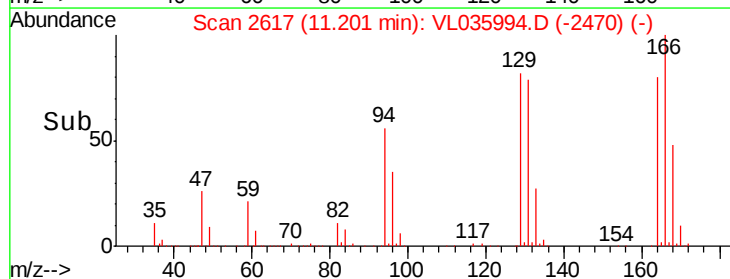
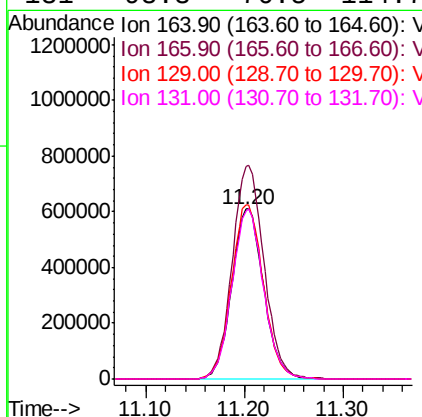
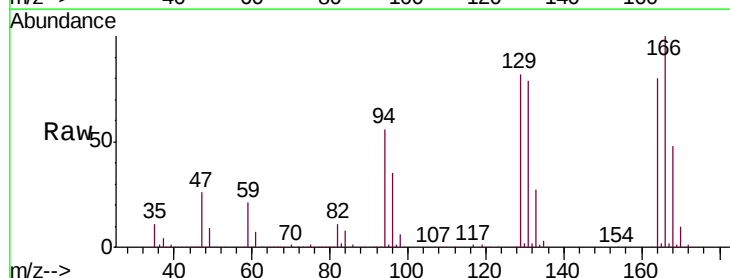
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

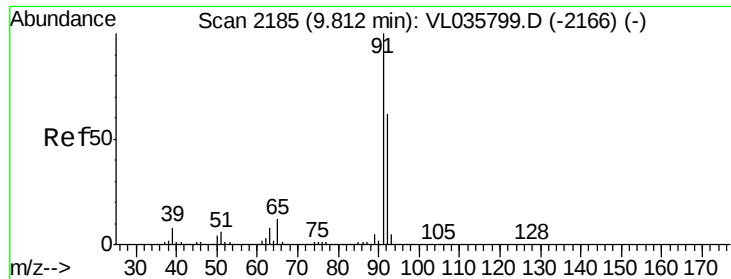
Tgt Ion: 43 Resp: 2078397  
Ion Ratio Lower Upper  
43 100  
58 58.2 48.3 72.5  
98 0.9 0.6 0.8#



#52  
Tetrachloroethene  
Concen: 8.633 ppbv  
RT: 11.20 min Scan# 2617  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 164 Resp: 1356042  
Ion Ratio Lower Upper  
164 100  
166 125.0 99.3 148.9  
129 102.1 79.3 118.9  
131 98.3 76.5 114.7





#53

Toluene

Concen: 9.998 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

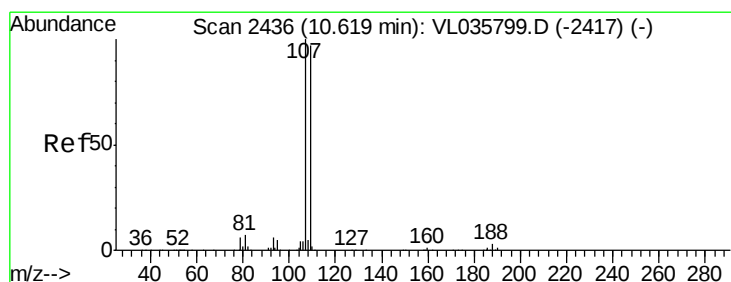
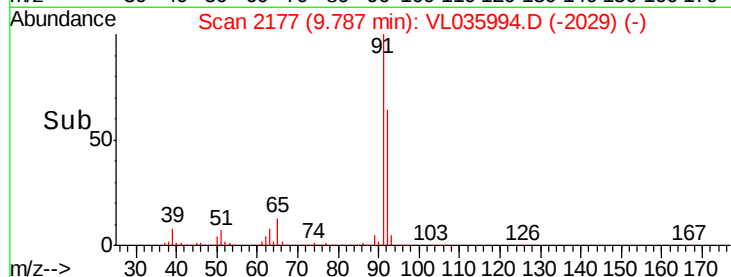
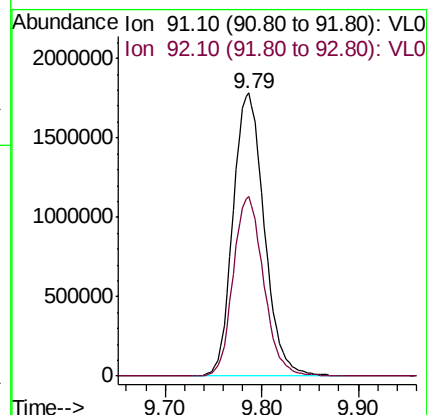
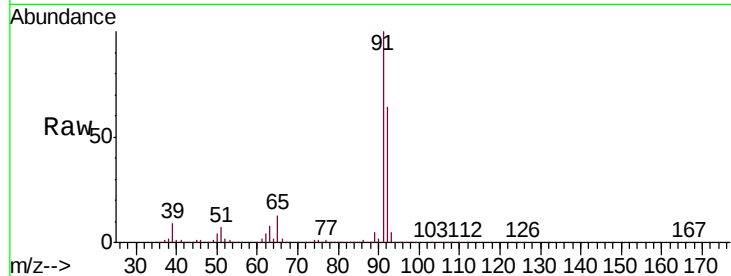
VSTDCCC010

Tgt Ion: 91 Resp: 3999528

Ion Ratio Lower Upper

91 100

92 62.1 49.8 74.6



#54

1,2-Dibromoethane

Concen: 9.932 ppbv

RT: 10.59 min Scan# 2427

Delta R.T. -0.03 min

Lab File: VL035994.D

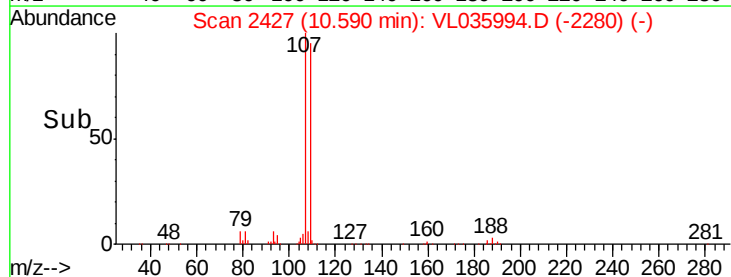
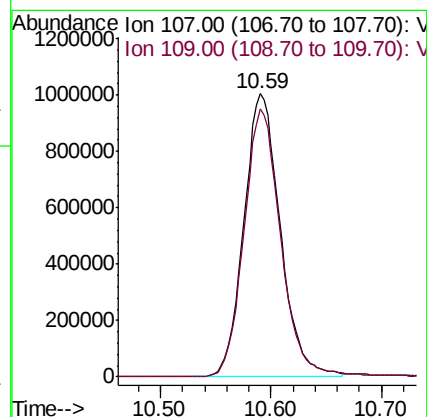
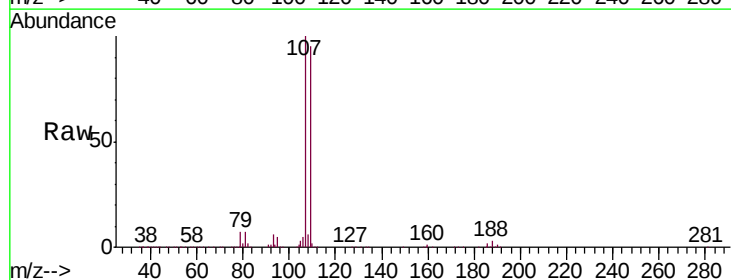
Acq: 24 Nov 2020 11:30

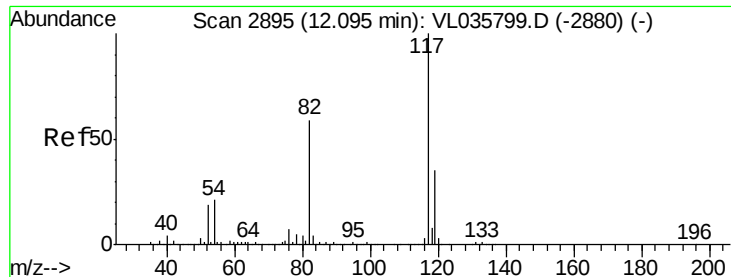
Tgt Ion: 107 Resp: 2297411

Ion Ratio Lower Upper

107 100

109 94.8 77.2 115.8

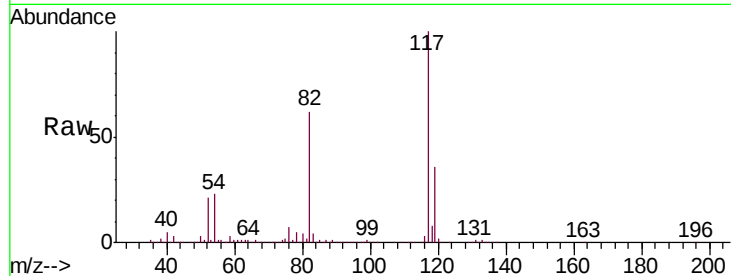




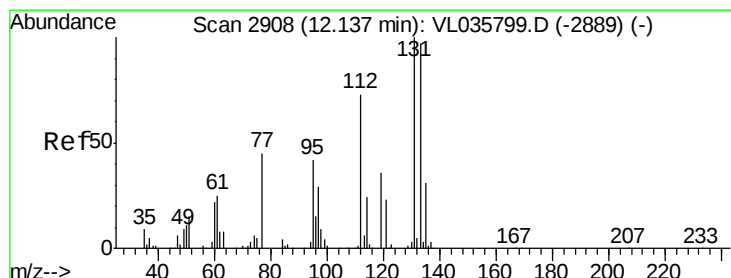
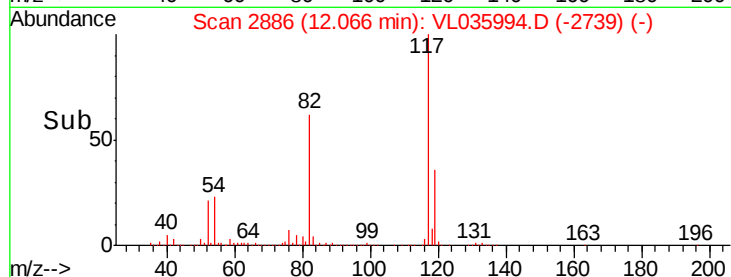
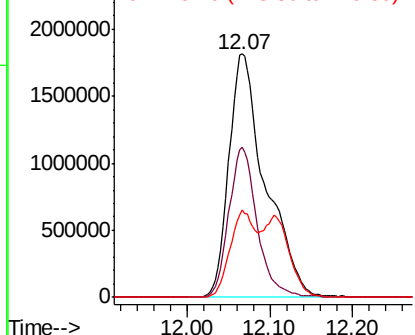
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.07 min Scan# 2886  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:117 Resp: 5583201  
Ion Ratio Lower Upper  
117 100  
82 48.0 50.6 76.0#  
119 26.0 52.6 78.8#

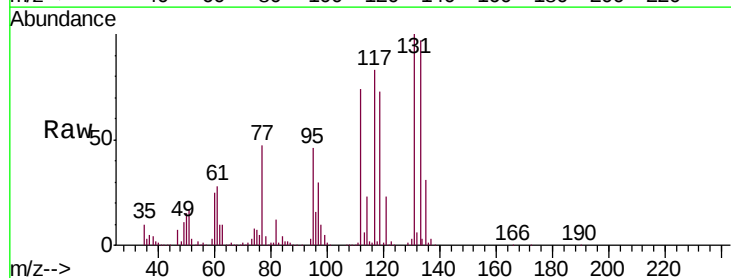


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

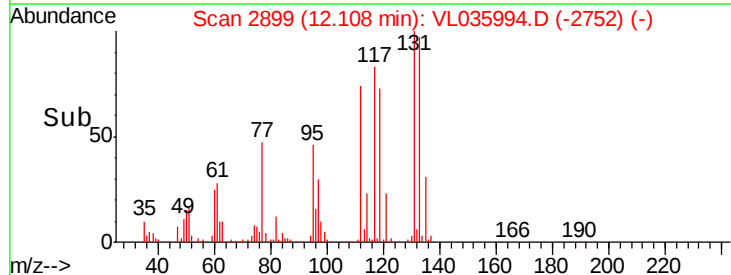
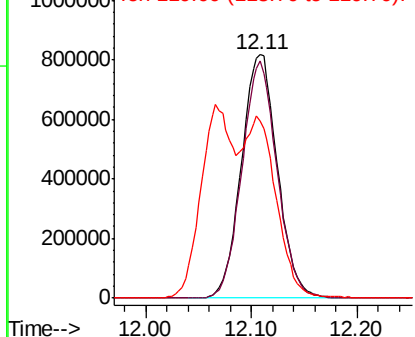


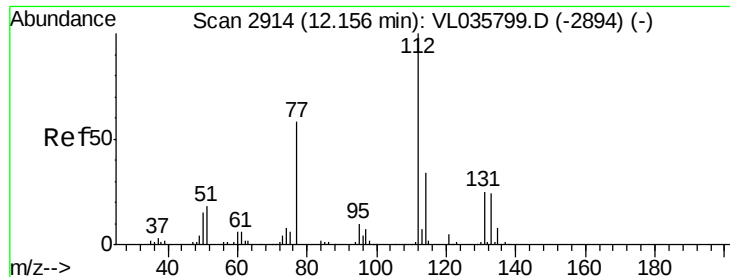
#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.731 ppbv  
RT: 12.11 min Scan# 2899  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion:131 Resp: 1937258  
Ion Ratio Lower Upper  
131 100  
133 95.3 76.8 115.2  
119 61.9 47.4 71.0



Abundance Ion 131.00 (130.70 to 131.70): V  
Ion 133.00 (132.70 to 133.70): V  
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.288 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

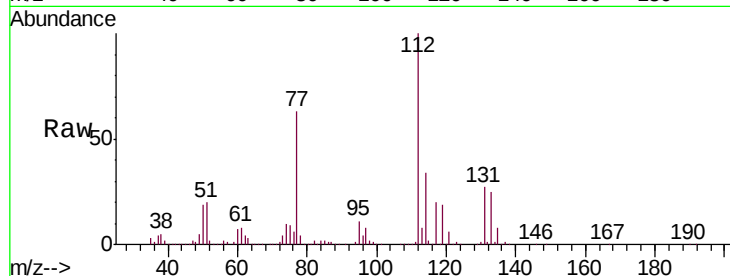
Tgt Ion: 112 Resp: 3235259

Ion Ratio Lower Upper

112 100

77 62.7 47.5 71.3

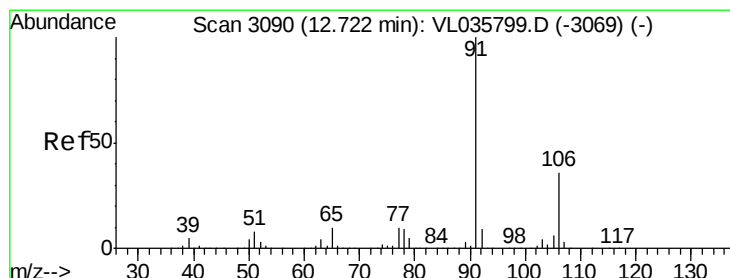
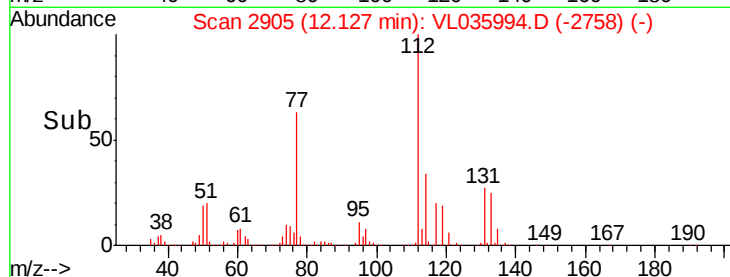
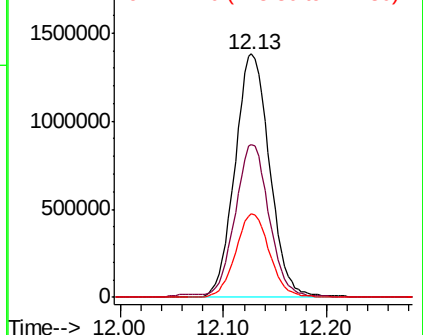
114 34.2 30.3 37.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.563 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.03 min

Lab File: VL035994.D

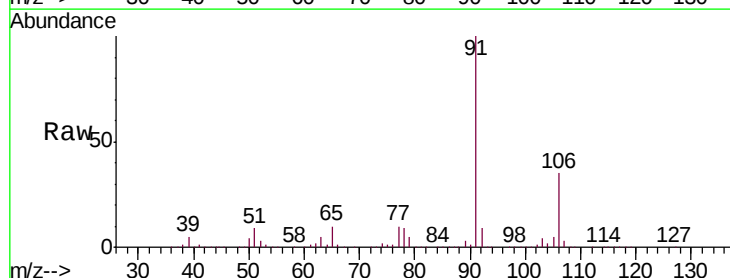
Acq: 24 Nov 2020 11:30

Tgt Ion: 91 Resp: 5143035

Ion Ratio Lower Upper

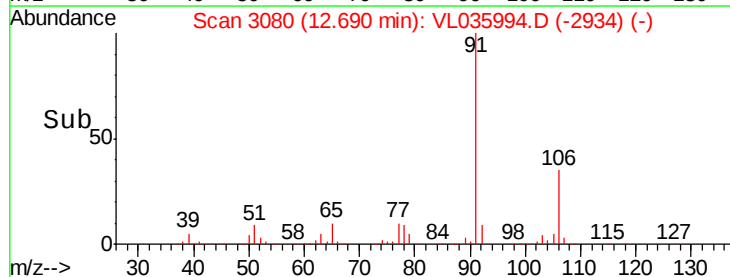
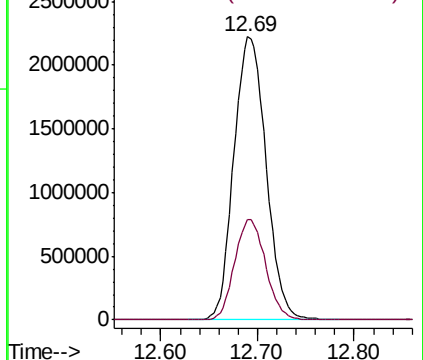
91 100

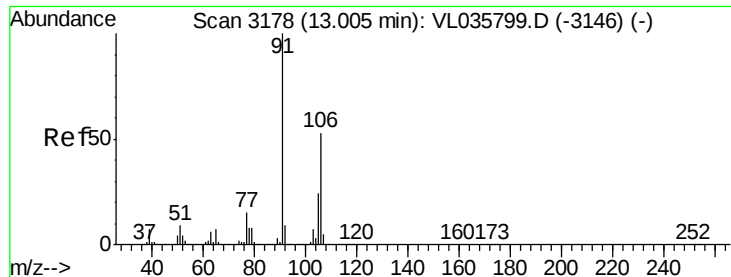
106 35.2 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

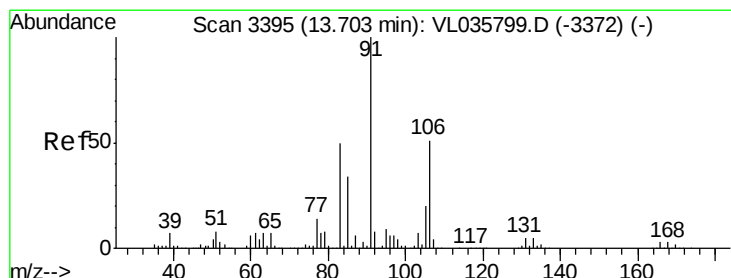
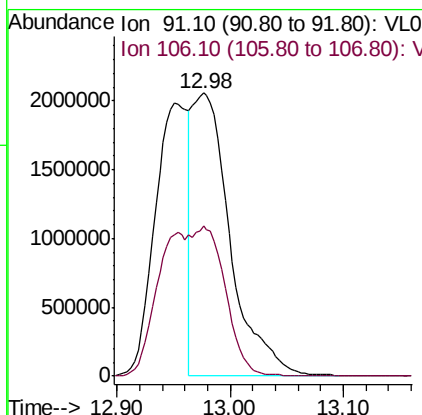
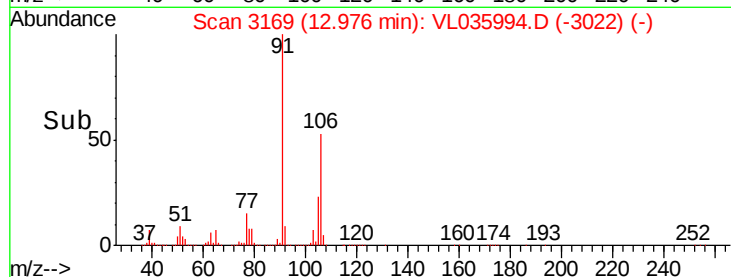
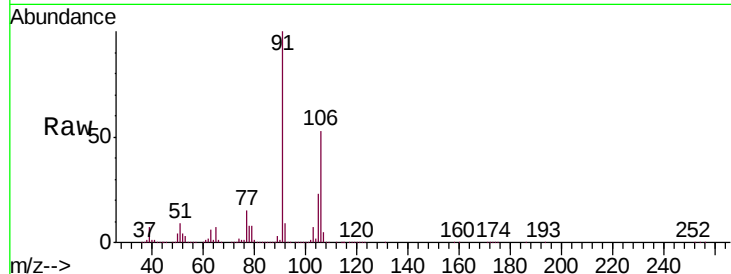




#59  
m/p-Xylene  
Concen: 8.256 ppbv  
RT: 12.98 min Scan# 3169  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

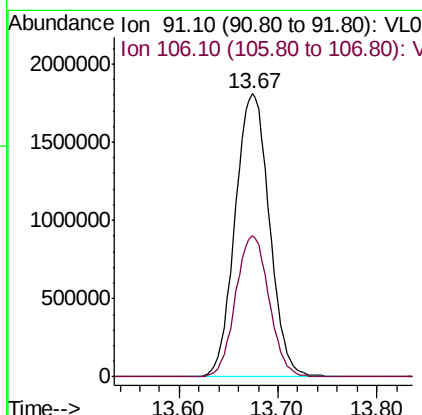
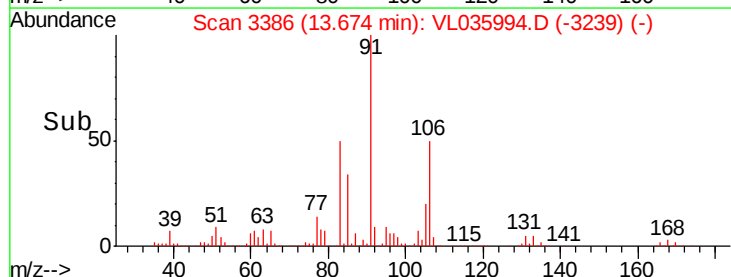
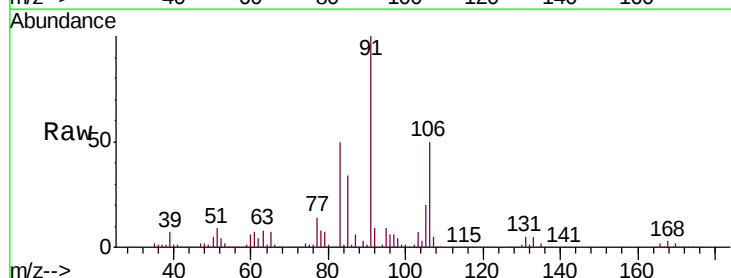
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

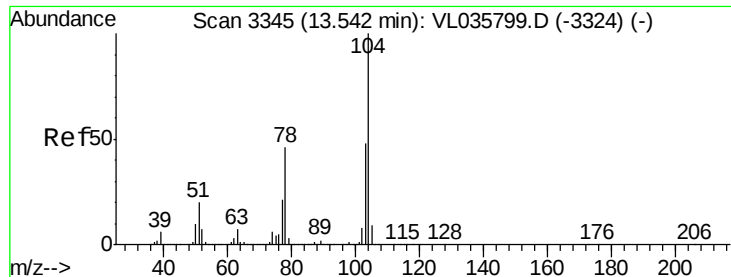
Tgt Ion: 91 Resp: 4749818  
Ion Ratio Lower Upper  
91 100  
106 90.7 39.5 59.3#



#60  
o-Xylene  
Concen: 7.780 ppbv  
RT: 13.67 min Scan# 3386  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 91 Resp: 4353968  
Ion Ratio Lower Upper  
91 100  
106 48.8 24.8 74.4





#61

Styrene

Concen: 7.742 ppbv

RT: 13.51 min Scan# 3335

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

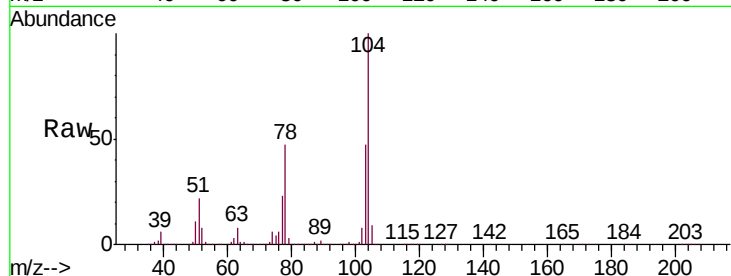
Tgt Ion:104 Resp: 3174517

Ion Ratio Lower Upper

104 100

78 47.7 37.1 55.7

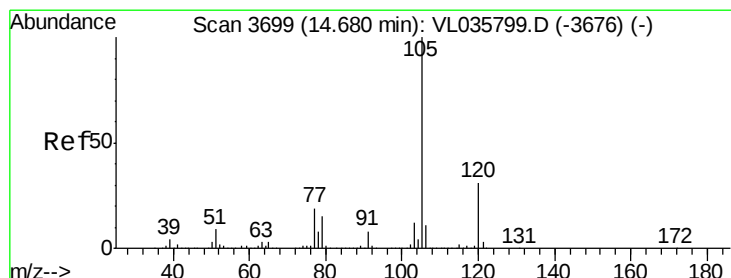
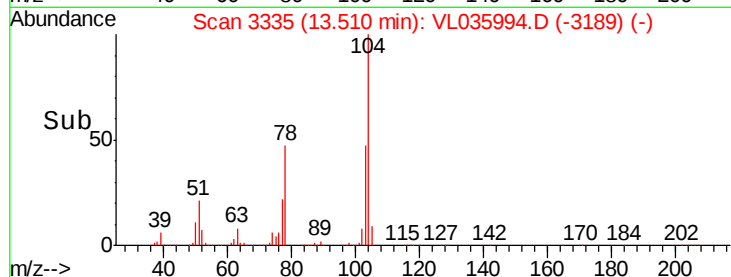
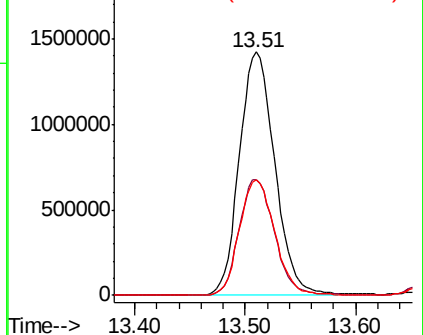
103 47.6 37.9 56.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.273 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. -0.03 min

Lab File: VL035994.D

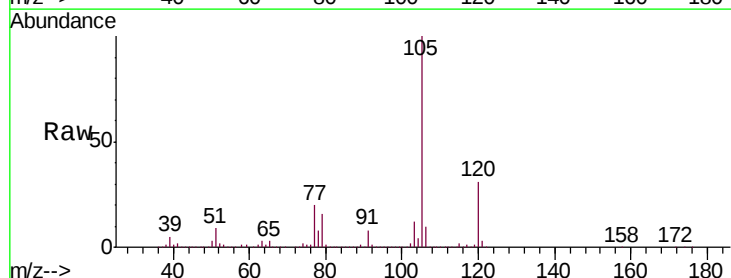
Acq: 24 Nov 2020 11:30

Tgt Ion:105 Resp: 6397595

Ion Ratio Lower Upper

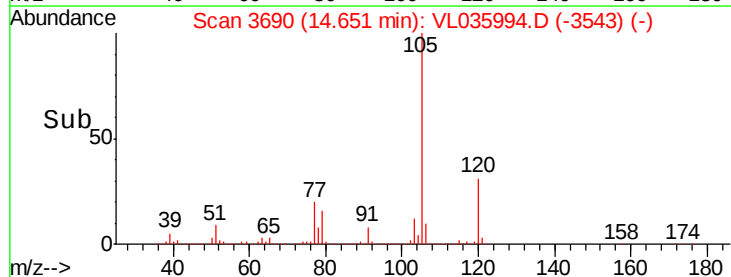
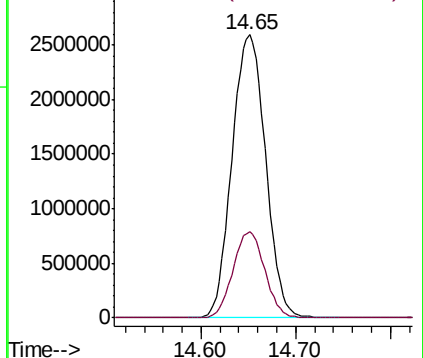
105 100

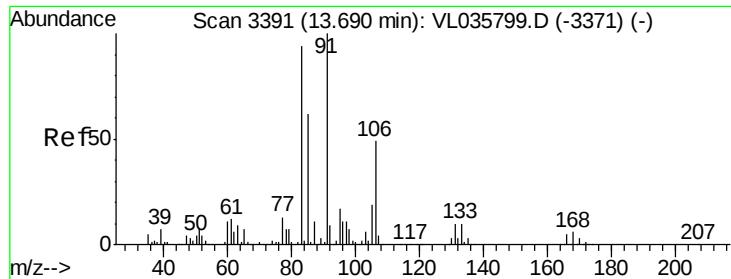
120 28.9 23.5 35.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

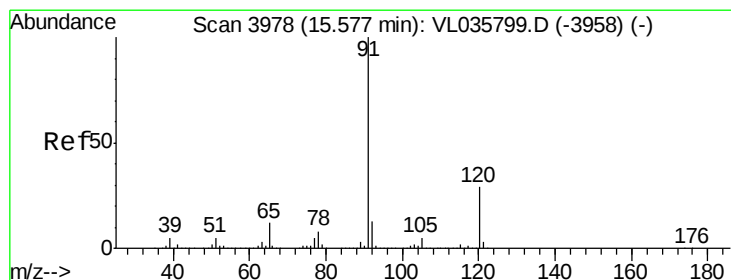
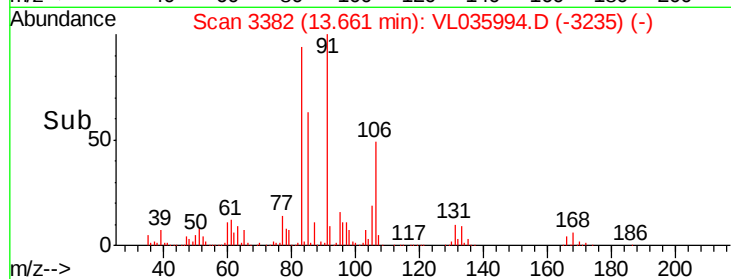
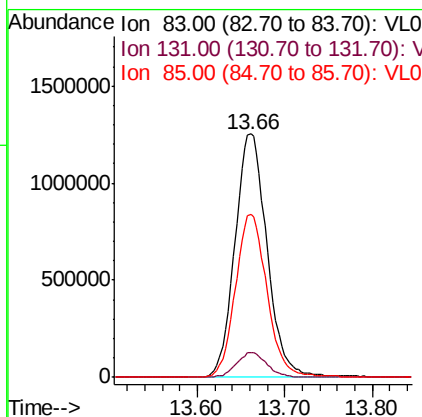
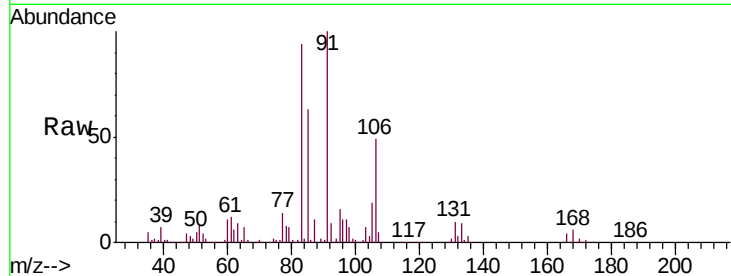




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.354 ppbv  
 RT: 13.66 min Scan# 3382  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

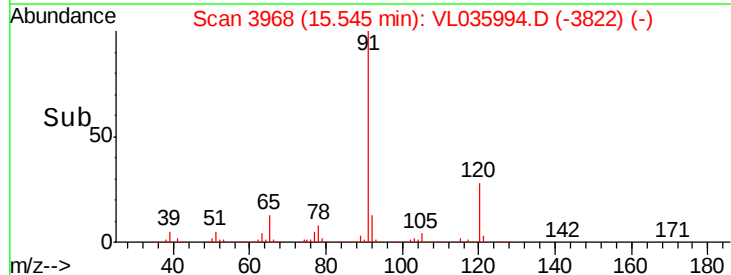
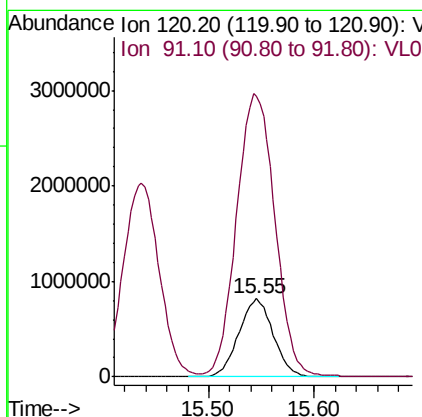
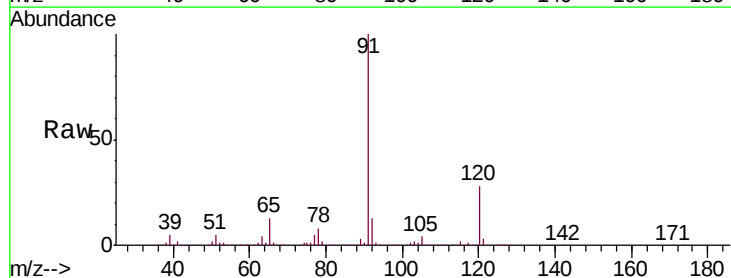
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

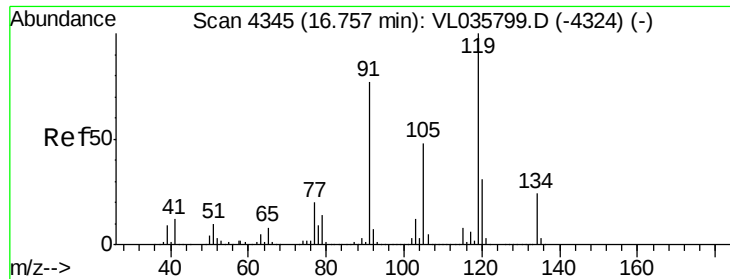
Tgt Ion: 83 Resp: 318882  
 Ion Ratio Lower Upper  
 83 100  
 131 9.7 5.3 15.8  
 85 66.5 33.5 100.4



#64  
 n-propylbenzene  
 Concen: 7.327 ppbv  
 RT: 15.55 min Scan# 3968  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion: 120 Resp: 1863006  
 Ion Ratio Lower Upper  
 120 100  
 91 402.9 311.1 466.7

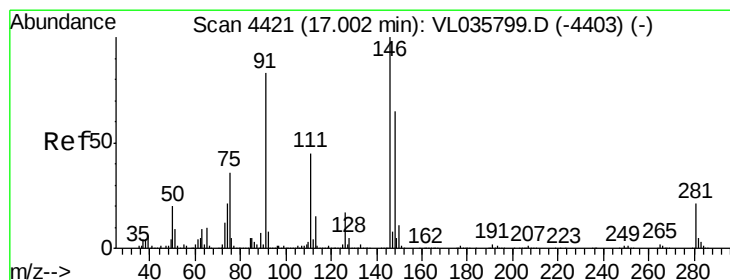
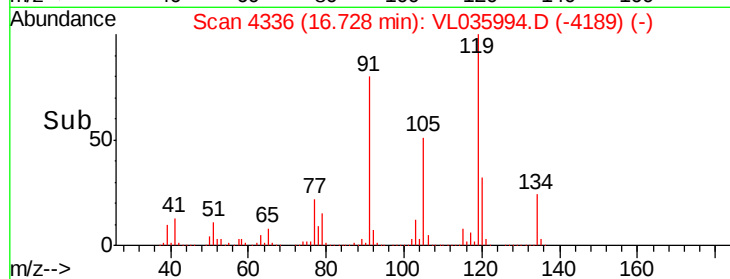
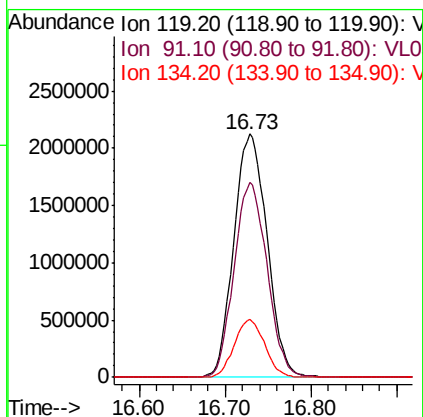
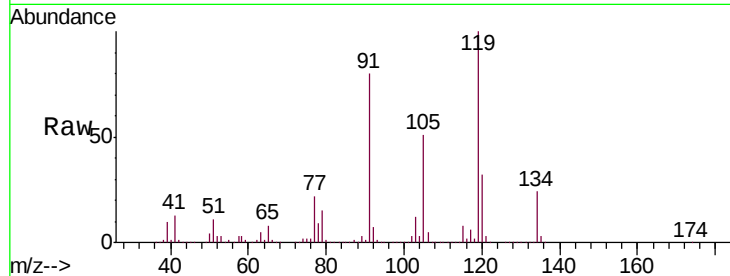




#65  
tert-Butylbenzene  
Concen: 7.135 ppbv  
RT: 16.73 min Scan# 4336  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

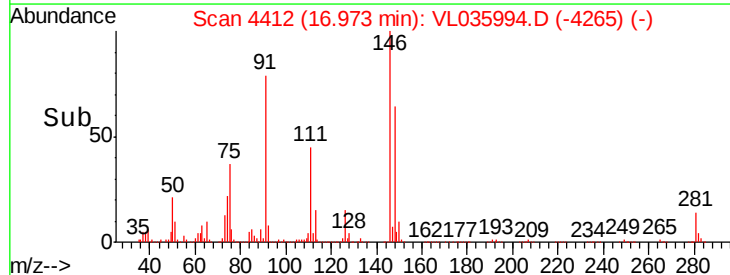
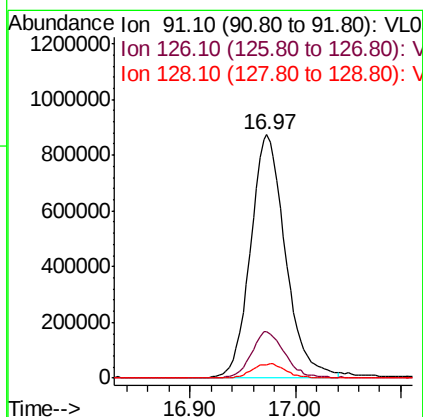
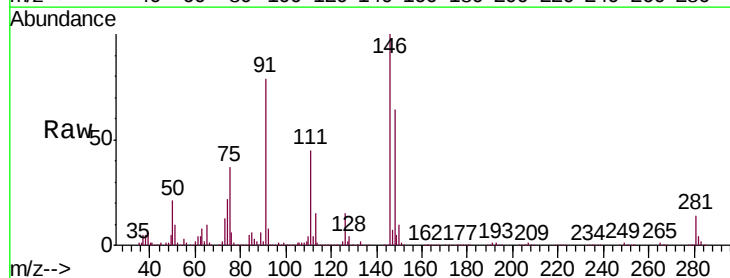
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

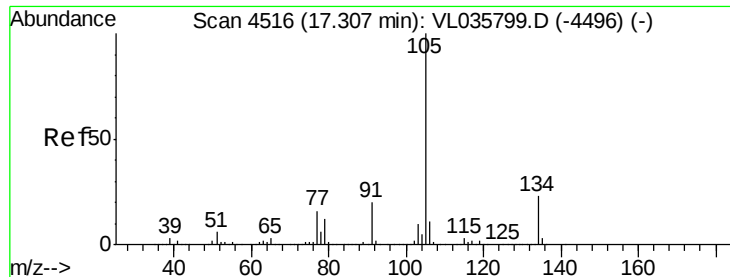
Tgt Ion: 119 Resp: 5712640  
Ion Ratio Lower Upper  
119 100  
91 79.4 62.0 93.0  
134 21.8 17.8 26.8



#66  
Benzyl Chloride  
Concen: 7.591 ppbv  
RT: 16.97 min Scan# 4412  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 91 Resp: 2009101  
Ion Ratio Lower Upper  
91 100  
126 18.7 16.0 24.0  
128 6.0 5.0 7.4

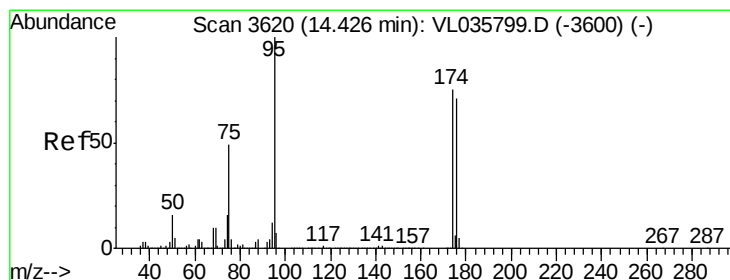
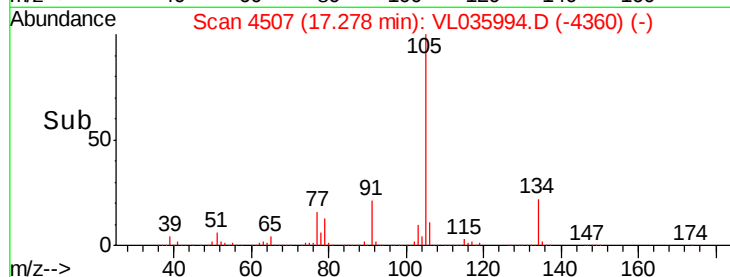
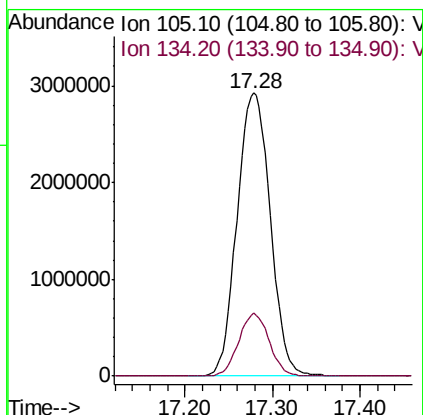
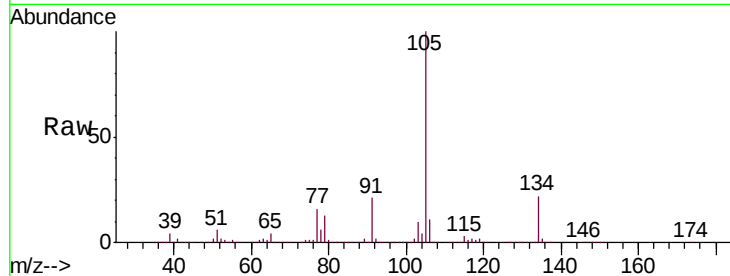




#67  
 sec-Butylbenzene  
 Concen: 7.130 ppbv  
 RT: 17.28 min Scan# 4507  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

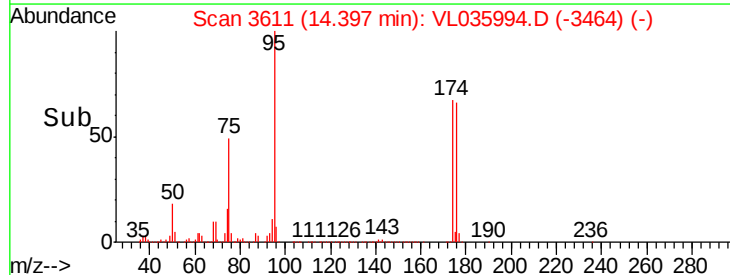
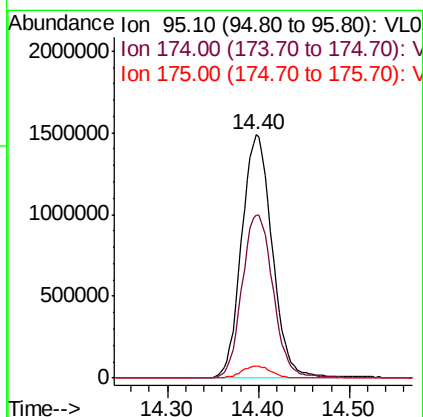
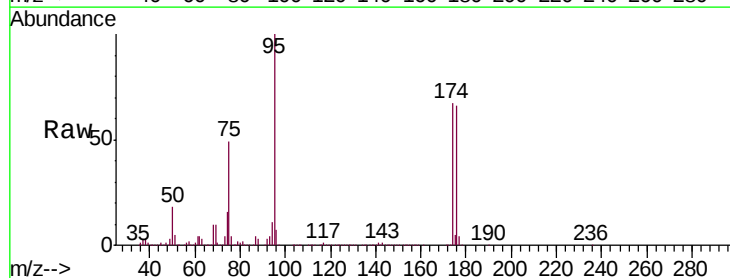
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

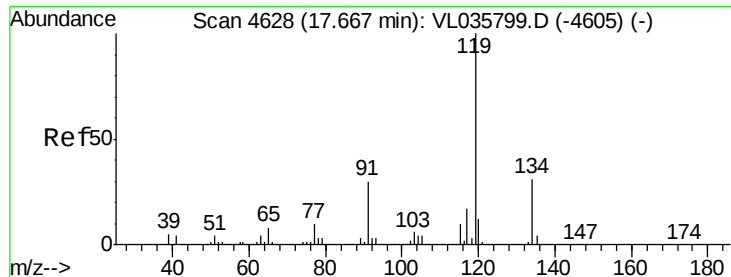
Tgt Ion: 105 Resp: 7692666  
 Ion Ratio Lower Upper  
 105 100  
 134 20.4 17.0 25.6



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.769 ppbv  
 RT: 14.40 min Scan# 3611  
 Delta R.T. -0.03 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Tgt Ion: 95 Resp: 3478302  
 Ion Ratio Lower Upper  
 95 100  
 174 68.7 59.8 89.6  
 175 4.9 4.3 6.5

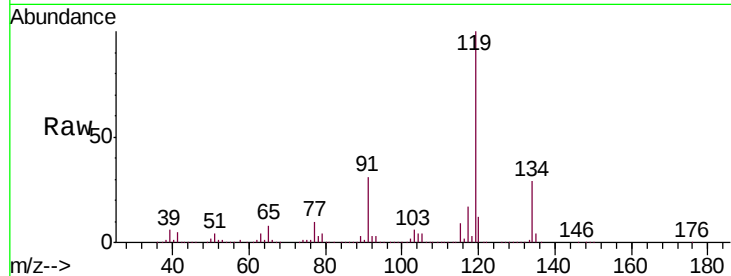




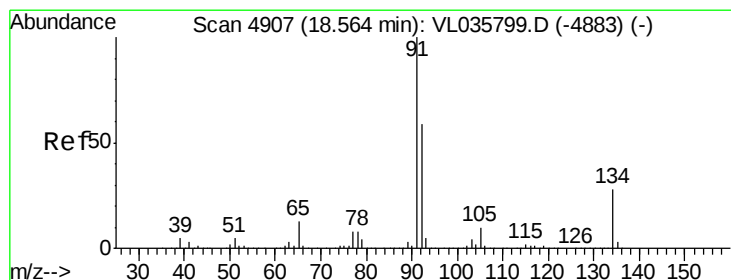
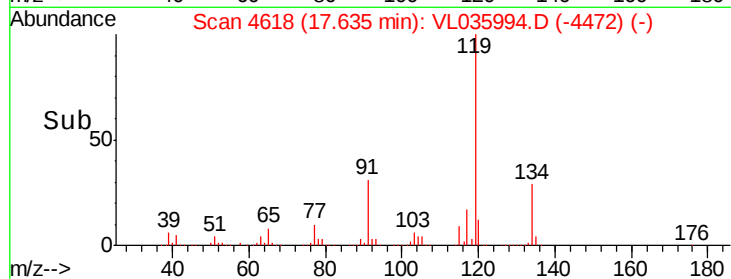
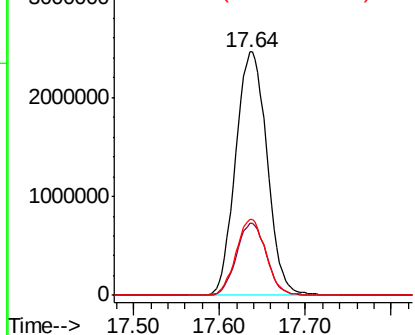
#69  
p-Isopropyltoluene  
Concen: 7.030 ppbv  
RT: 17.64 min Scan# 4618  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 119 Resp: 6259953  
Ion Ratio Lower Upper  
119 100  
134 28.2 23.0 34.6  
91 29.4 22.8 34.2

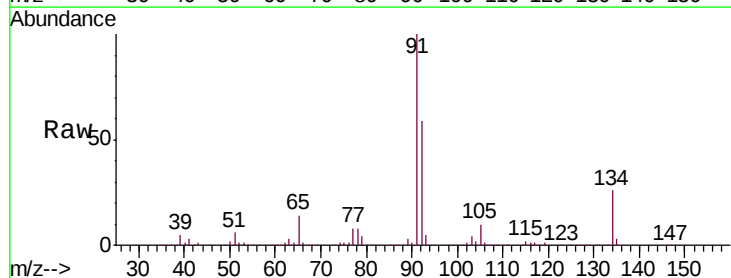


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

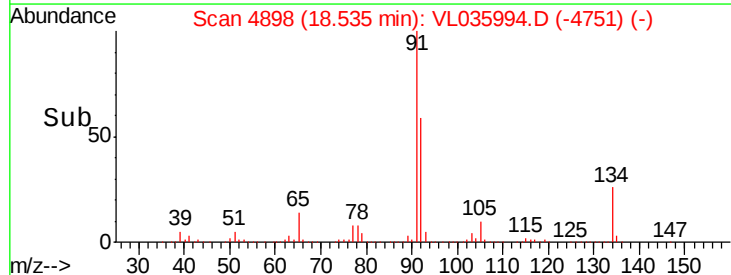
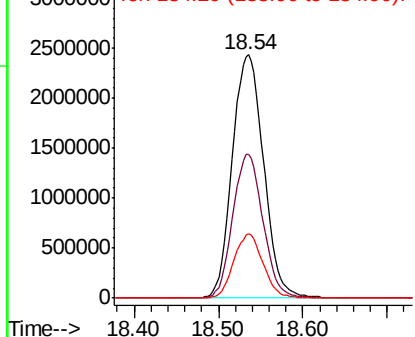


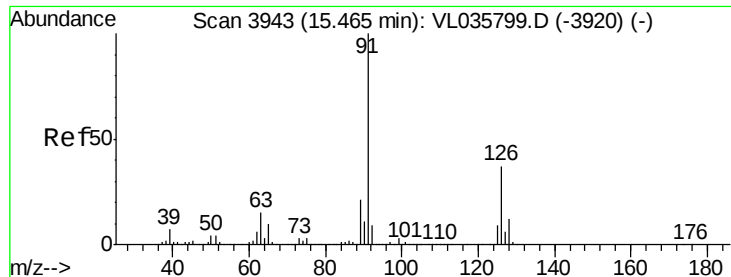
#70  
n-Butylbenzene  
Concen: 7.346 ppbv  
RT: 18.54 min Scan# 4898  
Delta R.T. -0.03 min  
Lab File: VL035994.D  
Acq: 24 Nov 2020 11:30

Tgt Ion: 91 Resp: 6298844  
Ion Ratio Lower Upper  
91 100  
92 57.1 45.7 68.5  
134 24.8 21.0 31.4



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.496 ppbv

RT: 15.44 min Scan# 3934

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

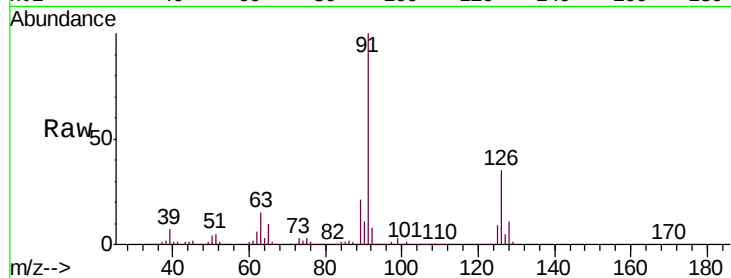
VSTDCCC010

Tgt Ion: 91 Resp: 4823218

Ion Ratio Lower Upper

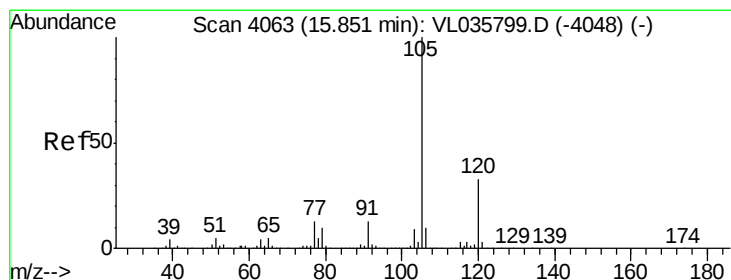
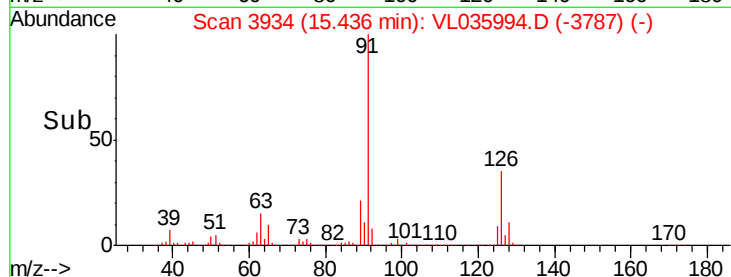
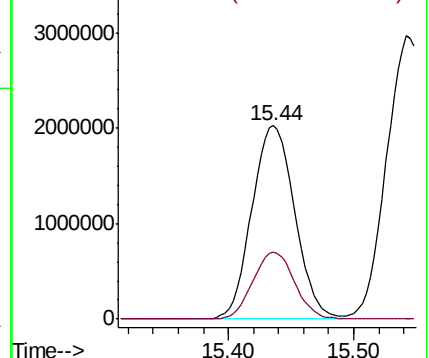
91 100

126 34.0 14.3 57.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.418 ppbv

RT: 15.82 min Scan# 4054

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Tgt Ion: 105 Resp: 5034807

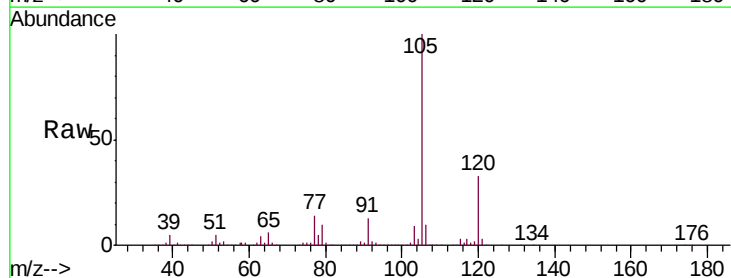
Ion Ratio Lower Upper

105 100

120 31.8 25.9 38.9

91 13.1 9.9 14.9

77 13.2 10.2 15.2

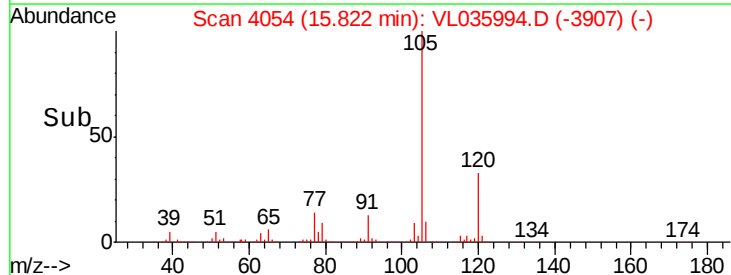
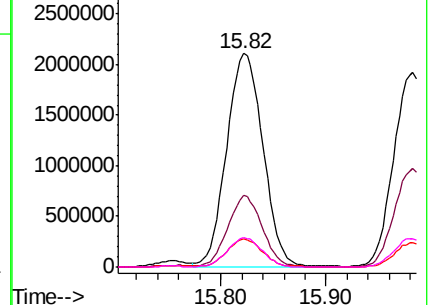


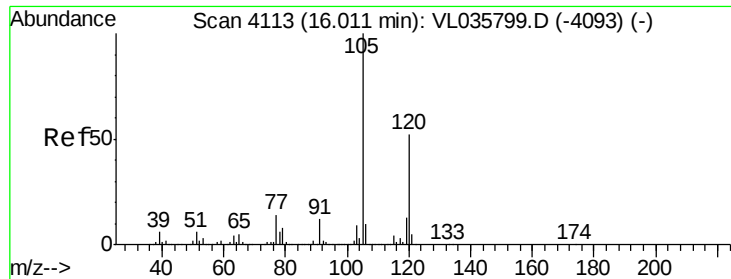
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 7.459 ppbv

RT: 15.98 min Scan# 4104

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

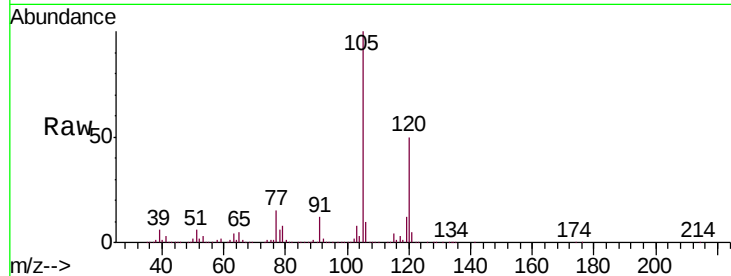
VSTDCCC010

Tgt Ion:105 Resp: 4633364

Ion Ratio Lower Upper

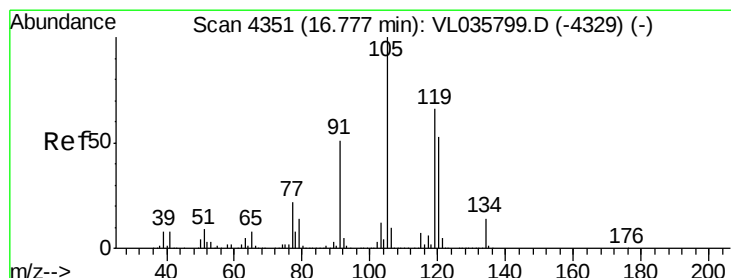
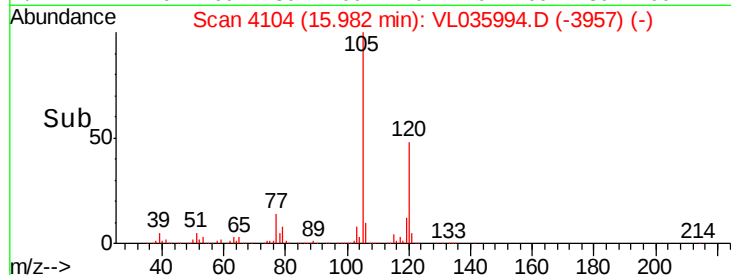
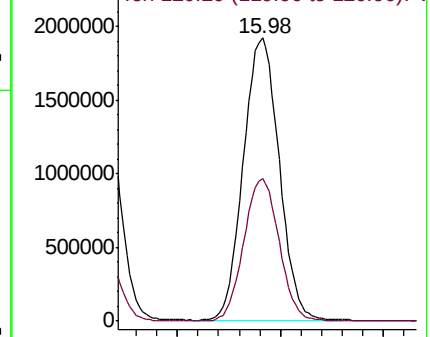
105 100

120 50.4 41.4 62.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.328 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Tgt Ion:105 Resp: 4877751

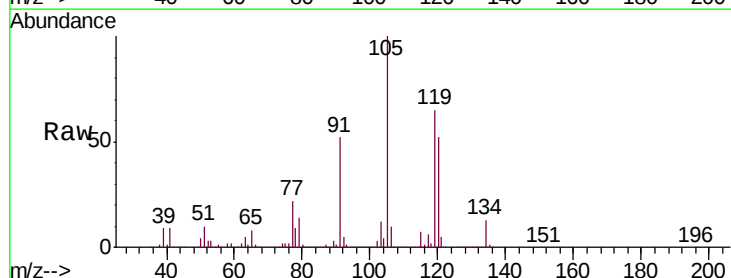
Ion Ratio Lower Upper

105 100

120 52.2 42.0 63.0

91 51.4 41.0 61.6

77 21.9 17.3 25.9

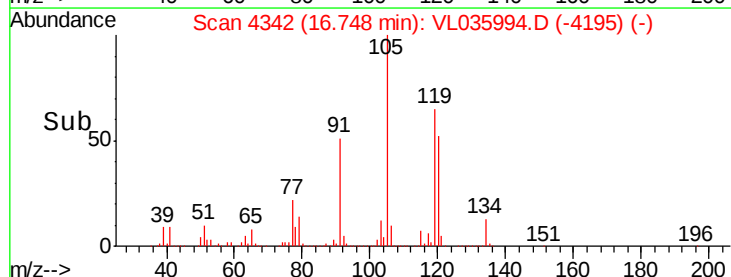
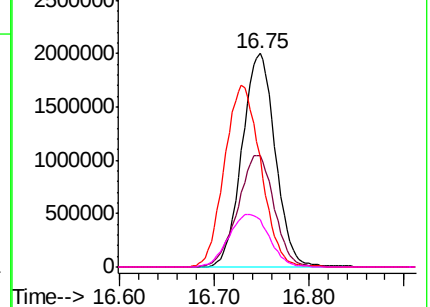


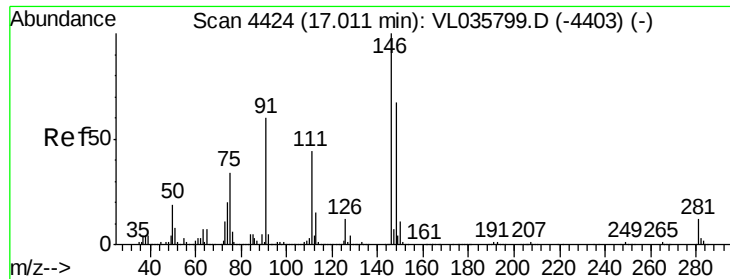
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 6.918 ppbv

RT: 16.98 min Scan# 4415

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

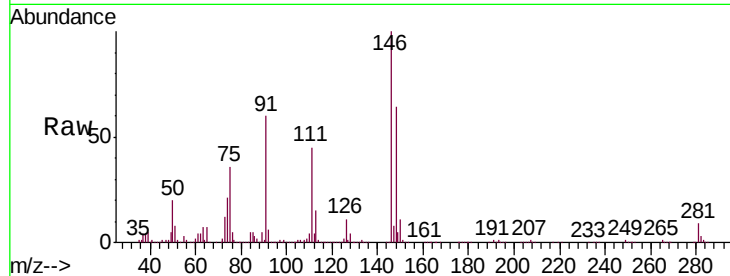
Tgt Ion:146 Resp: 2931900

Ion Ratio Lower Upper

146 100

111 45.3 21.8 65.4

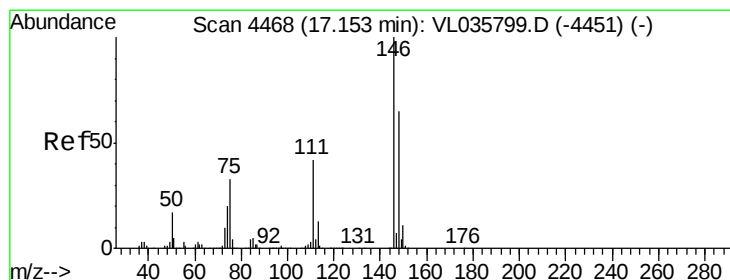
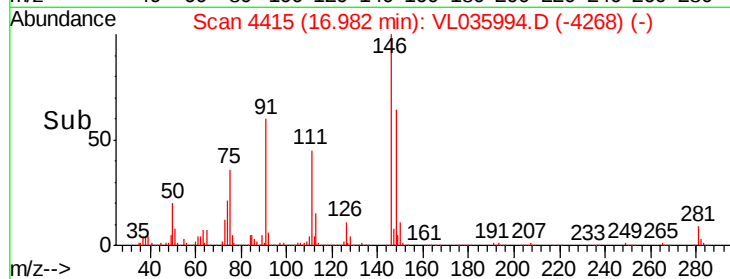
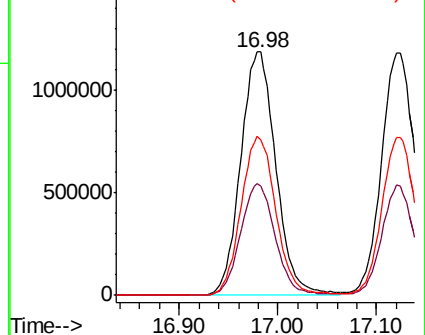
148 64.8 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 6.995 ppbv

RT: 17.12 min Scan# 4459

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

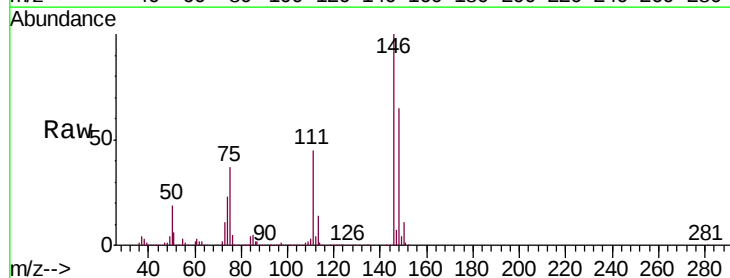
Tgt Ion:146 Resp: 2859586

Ion Ratio Lower Upper

146 100

111 43.8 21.3 63.7

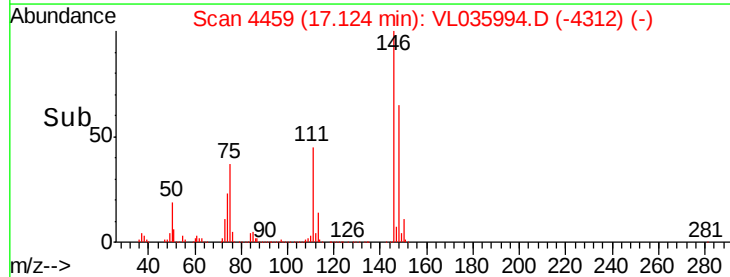
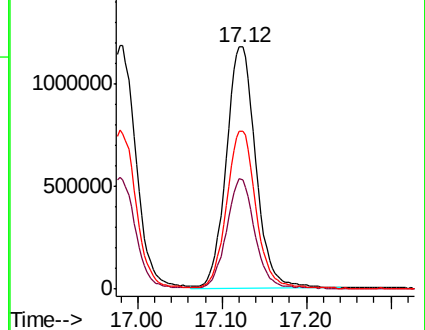
148 64.7 33.0 99.0

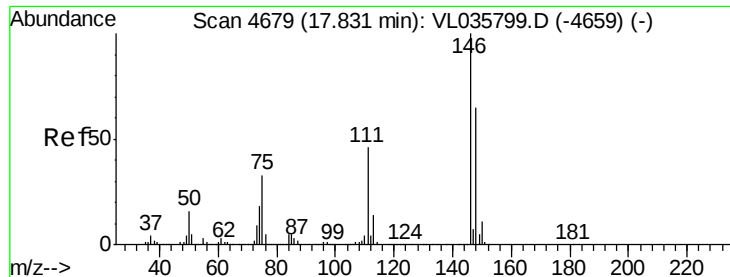


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 6.766 ppbv

RT: 17.80 min Scan# 4669

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

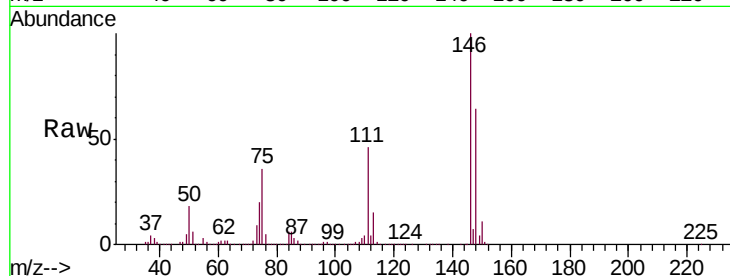
Tgt Ion:146 Resp: 2795168

Ion Ratio Lower Upper

146 100

111 46.9 22.4 67.0

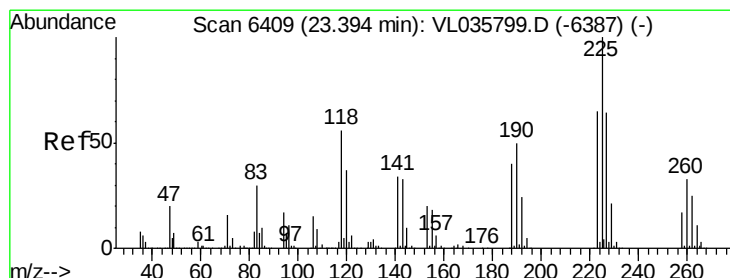
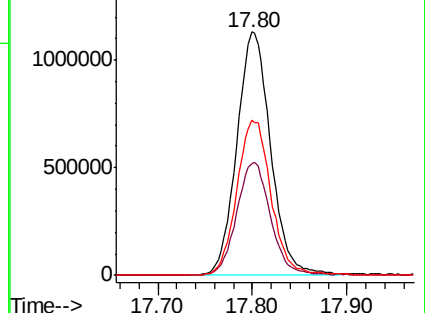
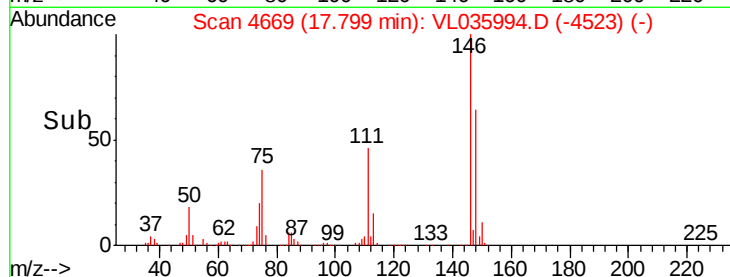
148 64.9 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.674 ppbv

RT: 23.36 min Scan# 6399

Delta R.T. -0.03 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

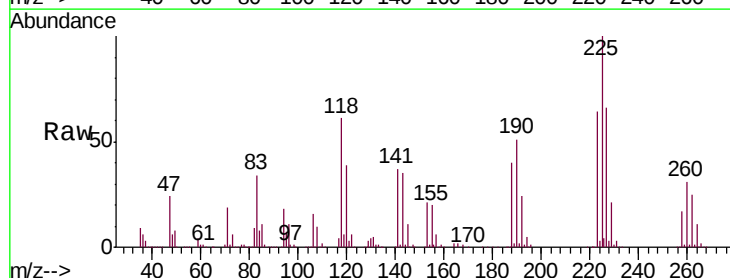
Tgt Ion:225 Resp: 1286471

Ion Ratio Lower Upper

225 100

223 63.9 51.0 76.6

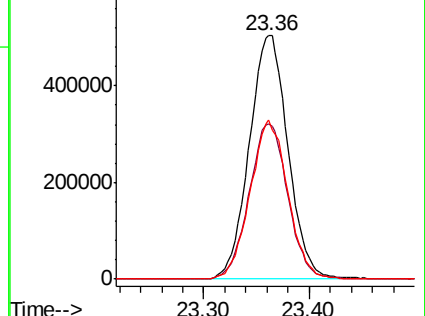
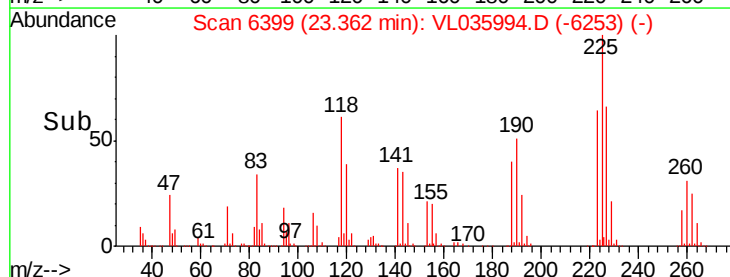
227 63.9 51.2 76.8

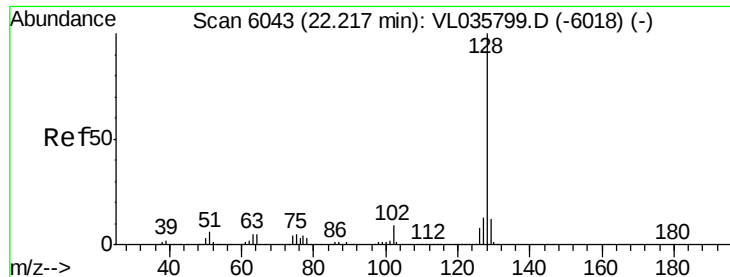


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 6.555 ppbv

RT: 22.18 min Scan# 6032

Delta R.T. -0.04 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

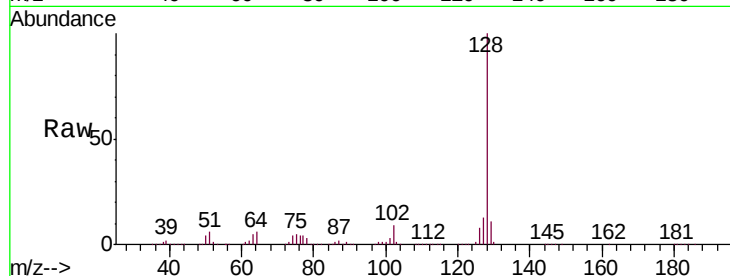
Tgt Ion:128 Resp: 3041254

Ion Ratio Lower Upper

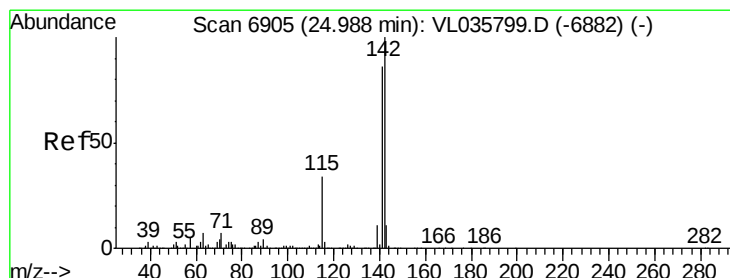
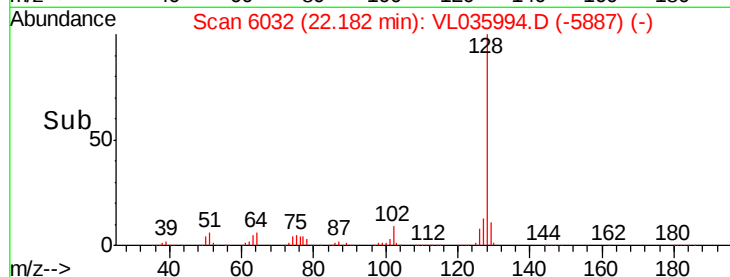
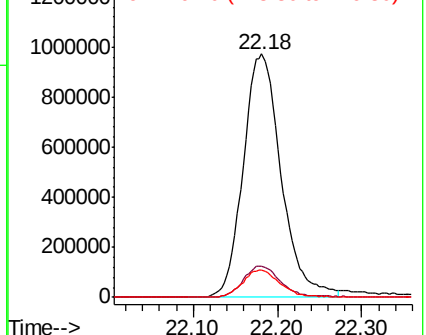
128 100

127 12.6 10.2 15.4

129 11.0 9.2 13.8



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 4.590 ppbv

RT: 24.97 min Scan# 6899

Delta R.T. -0.02 min

Lab File: VL035994.D

Acq: 24 Nov 2020 11:30

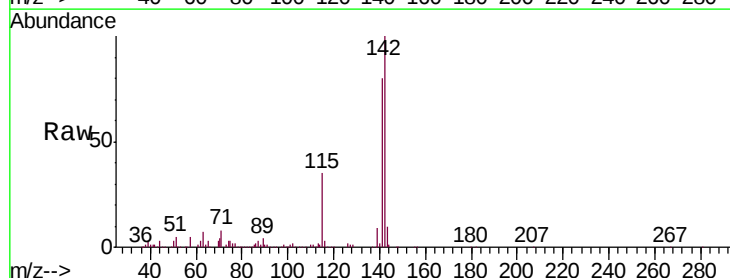
Tgt Ion:142 Resp: 347097

Ion Ratio Lower Upper

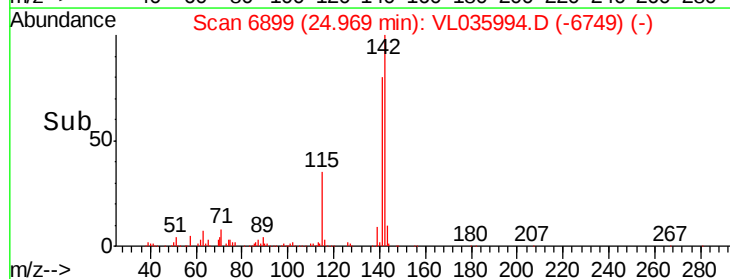
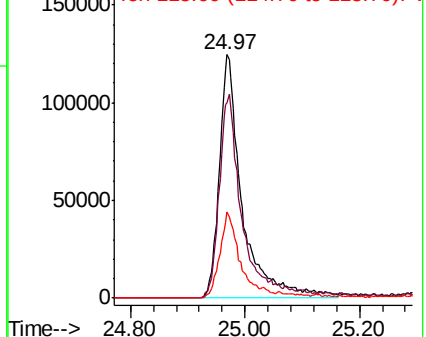
142 100

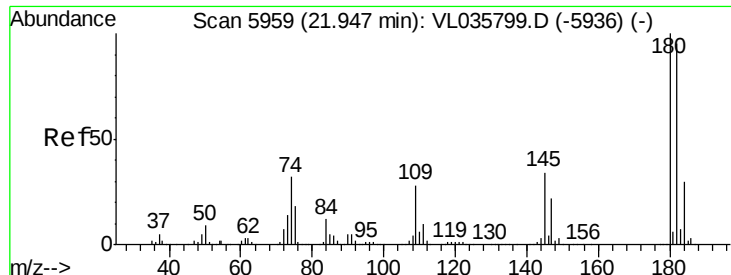
141 83.2 67.8 101.8

115 33.7 28.1 42.1



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 6.136 ppbv  
 RT: 21.91 min Scan# 5948  
 Delta R.T. -0.04 min  
 Lab File: VL035994.D  
 Acq: 24 Nov 2020 11:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion:180 Resp: 1590661  
 Ion Ratio Lower Upper  
 180 100  
 182 97.9 77.2 115.8  
 184 31.1 24.7 37.1

