

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\  
 Data File : VL035768.D  
 Acq On : 12 Oct 2020 19:17  
 Operator : SY/AP  
 Sample : L4347-05  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 5

Quant Time: Oct 13 00:06:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 23 07:38:05 2020  
 QLast Update : Wed Sep 23 07:38:05 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 1076124  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4558652  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4610163  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3506402  | 10.15    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.50% |

| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04  | 85   | 22359    | 0.127   | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.30  | 51   | 799224   | 6.903   | ppbv # | 54     |
| 4) Chloromethane               | 3.13  | 50   | 54209    | 0.872   | ppbv   | 96     |
| 7) Chloroethane                | 3.55  | 64   | 7868     | 0.292   | ppbv   | 100    |
| 9) Propene                     | 3.00  | 41   | 3179484  | 75.639  | ppbv   | 98     |
| 10) Heptane                    | 8.13  | 43   | 679813   | 5.801   | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95  | 101  | 41801    | 0.166   | ppbv   | 91     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49  | 101  | 5830     | 0.031   | ppbv # | 44     |
| 13) Ethanol                    | 3.61  | 45   | 384601   | 37.102  | ppbv   | 100    |
| 15) Acetone                    | 3.85  | 43   | 14513948 | 125.343 | ppbv # | 40     |
| 16) 1,3-Butadiene              | 3.30  | 39   | 4045690  | 95.502  | ppbv # | 17     |
| 17) tert-Butyl alcohol         | 4.30  | 59   | 727532   | 5.768   | ppbv   | 99     |
| 19) Isopropyl Alcohol          | 3.97  | 45   | 505256   | 8.021   | ppbv # | 89     |
| 20) Methylene Chloride         | 4.35  | 84   | 1017927  | 11.968  | ppbv   | 94     |
| 21) Allyl Chloride             | 4.40  | 41   | 130811   | 2.331   | ppbv # | 1      |
| 23) Vinyl Acetate              | 5.07  | 43   | 698419   | 4.924   | ppbv # | 78     |
| 24) 1,1-Dichloroethane         | 5.06  | 63   | 4678     | 0.030   | ppbv # | 84     |
| 25) Ethyl Acetate              | 5.69  | 43   | 770538   | 3.698   | ppbv # | 78     |
| 26) Hexane                     | 5.69  | 57   | 1301753  | 11.401  | ppbv # | 43     |
| 27) Carbon Disulfide           | 4.55  | 76   | 1329978  | 7.815   | ppbv   | 99     |
| 29) Chloroform                 | 5.77  | 83   | 31275    | 0.135   | ppbv   | 94     |
| 30) Cyclohexane                | 7.13  | 84   | 180605   | 1.603   | ppbv   | 97     |
| 34) 2-Butanone                 | 5.25  | 43   | 6542649  | 43.392  | ppbv # | 85     |
| 36) Benzene                    | 6.90  | 78   | 2217574  | 7.466   | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.32  | 62   | 9474     | 0.061   | ppbv # | 94     |
| 39) 1,2-Dichloropropane        | 7.19  | 63   | 874557   | 8.123   | ppbv # | 31     |
| 41) Tetrahydrofuran            | 6.11  | 42   | 12617    | 0.166   | ppbv   | 94     |
| 42) Bromodichloromethane       | 7.81  | 83   | 30551    | 0.123   | ppbv # | 28     |
| 43) Methyl Methacrylate        | 8.07  | 69   | 223220   | 1.889   | ppbv # | 64     |
| 44) 2,2,4-Trimethylpentane     | 7.88  | 57   | 1006006  | 2.360   | ppbv # | 85     |
| 50) 4-Methyl-2-Pentanone       | 8.75  | 43   | 243943   | 1.108   | ppbv   | 98     |
| 51) 2-Hexanone                 | 10.13 | 43   | 2658680  | 14.984  | ppbv # | 95     |
| 52) Tetrachloroethene          | 11.23 | 164  | 42918    | 0.300   | ppbv   | 94     |
| 53) Toluene                    | 9.82  | 91   | 9372714  | 26.759  | ppbv   | 90     |
| 58) Ethyl Benzene              | 12.73 | 91   | 1438400  | 3.109   | ppbv   | 95     |
| 59) m/p-Xylene                 | 12.98 | 91   | 3892221  | 9.632   | ppbv   | 99     |
| 60) o-Xylene                   | 13.71 | 91   | 1491779  | 3.650   | ppbv   | 100    |
| 61) Styrene                    | 13.55 | 104  | 112079   | 0.397   | ppbv   | 97     |
| 62) Isopropylbenzene           | 14.68 | 105  | 162672   | 0.257   | ppbv   | 95     |
| 64) n-propylbenzene            | 15.58 | 120  | 143901   | 0.775   | ppbv # | 65     |
| 65) tert-Butylbenzene          | 16.79 | 119  | 229260   | 0.398   | ppbv # | 79     |

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 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

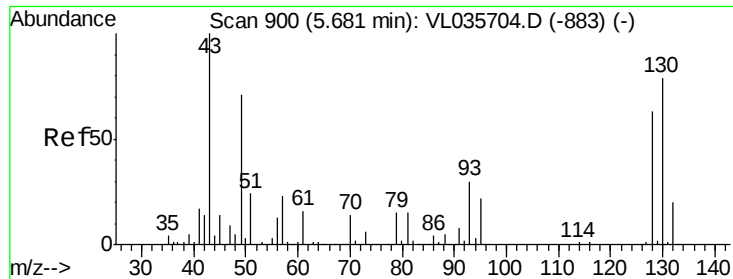
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 5

Quant Time: Oct 13 00:06:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 23 07:38:05 2020  
 QLast Update : Wed Sep 23 07:38:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 67) sec-Butylbenzene       | 17.32 | 105  | 117394   | 0.147 | ppbv # | 88       |
| 69) p-Isopropyltoluene     | 17.68 | 119  | 91128    | 0.141 | ppbv # | 91       |
| 70) n-Butylbenzene         | 18.61 | 91   | 275607   | 0.413 | ppbv # | 62       |
| 72) 4-Ethyltoluene         | 15.86 | 105  | 724503   | 1.496 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene | 16.02 | 105  | 562680   | 1.230 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene | 16.79 | 105  | 1906803  | 3.697 | ppbv # | 72       |
| 79) Naphthalene            | 22.24 | 128  | 97456    | 0.198 | ppbv # | 92       |
| 80) Naphthalene,2-methyl-  | 25.32 | 142  | 11344    | 0.098 | ppbv   | 85       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL035768.D

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5

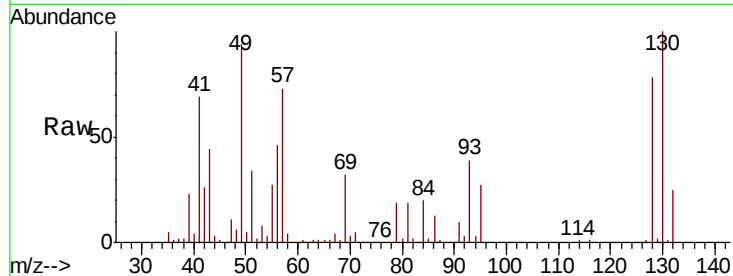
Tot Ion: 49 Resp: 1076124

Ion Ratio Lower Upper

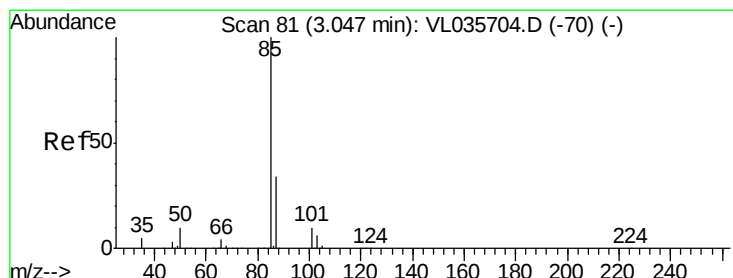
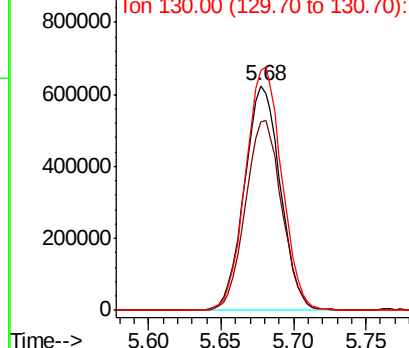
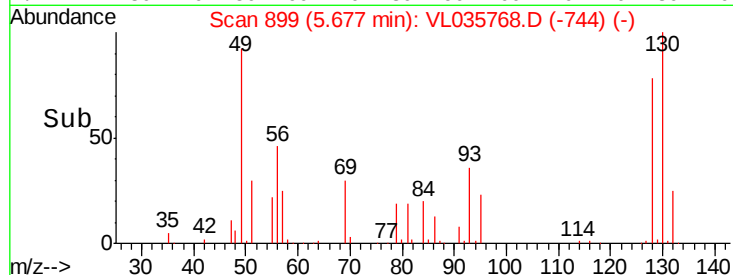
49 100

128 85.7 43.1 129.4

130 109.8 54.9 164.7



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: 0.127 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035768.D

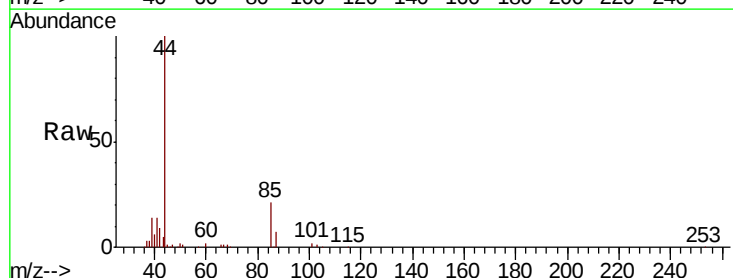
Acq: 12 Oct 2020 19:17

Tgt Ion: 85 Resp: 22359

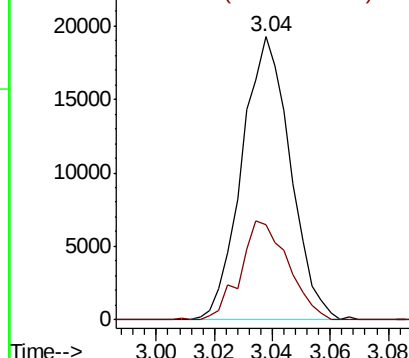
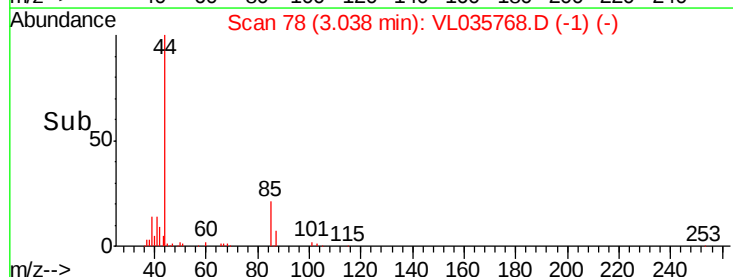
Ion Ratio Lower Upper

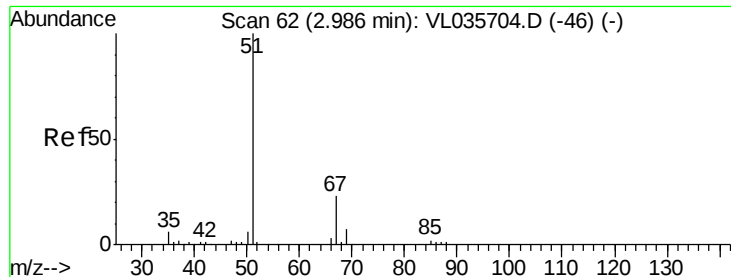
85 100

87 33.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.903 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.31 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

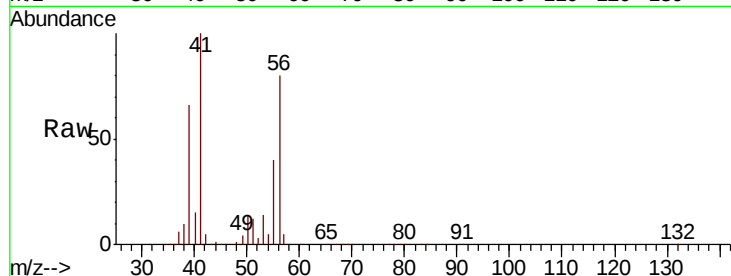
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Tot Ion: 51 Resp: 799224

Ion Ratio Lower Upper

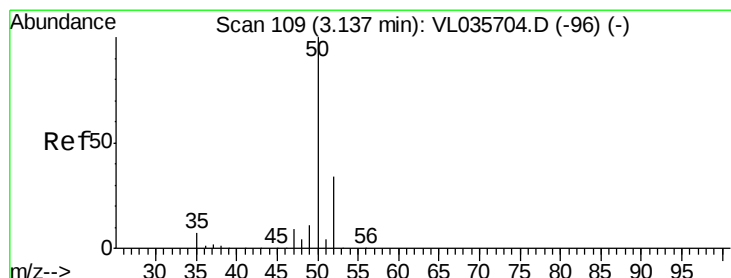
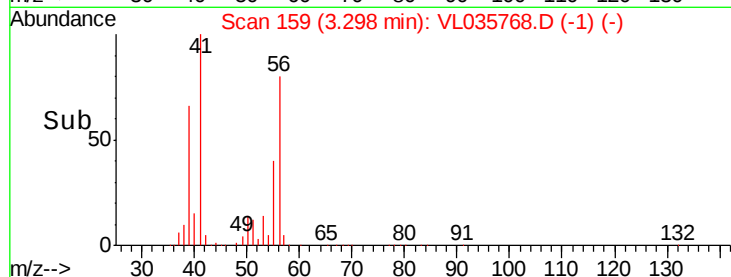
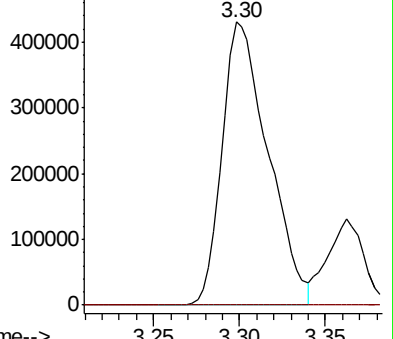
51 100

67 0.1 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.872 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035768.D

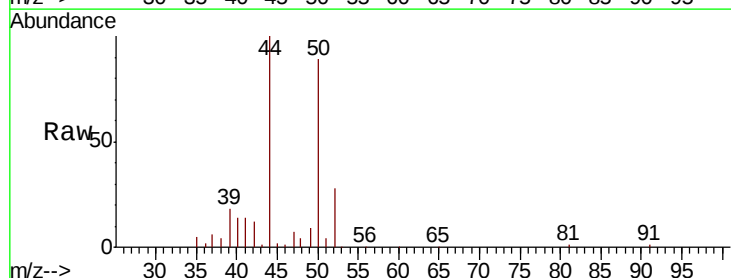
Acq: 12 Oct 2020 19:17

Tgt Ion: 50 Resp: 54209

Ion Ratio Lower Upper

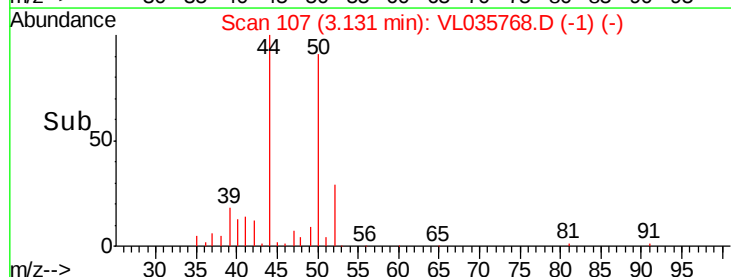
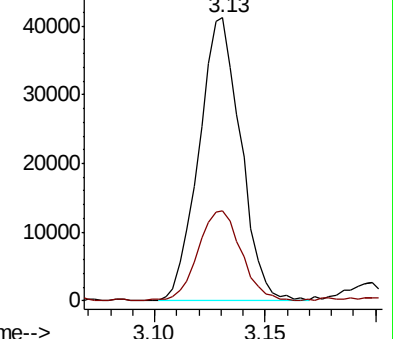
50 100

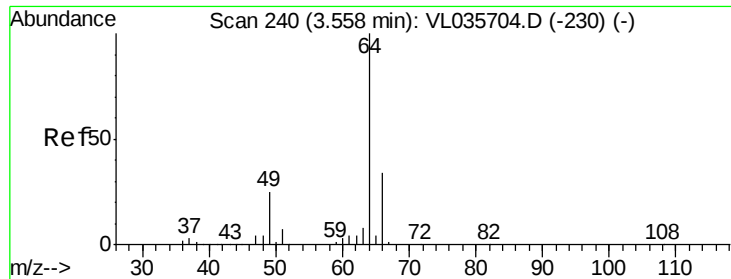
52 31.3 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.292 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampled :

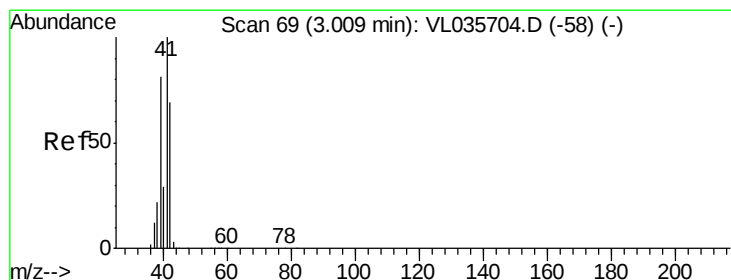
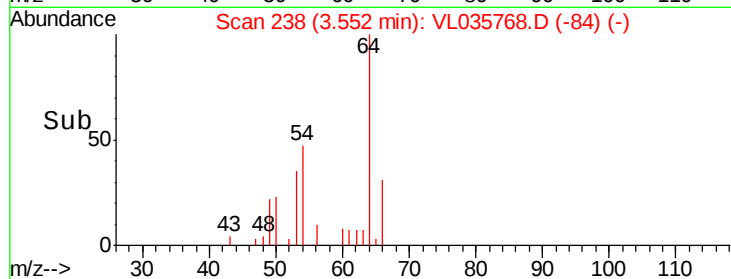
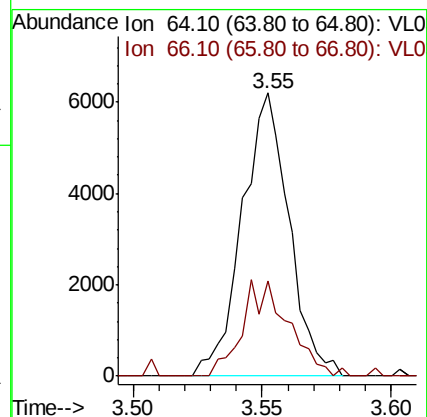
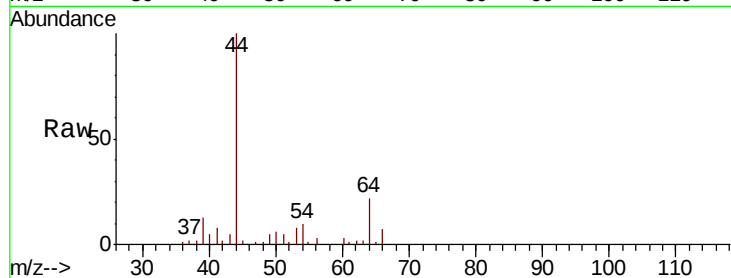
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Tot Ion: 64 Resp: 7868

Ion Ratio Lower Upper

64 100

66 33.8 26.9 40.3



#9

Propene

Concen: 75.639 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035768.D

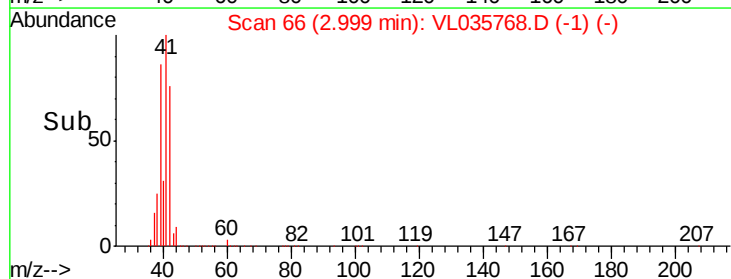
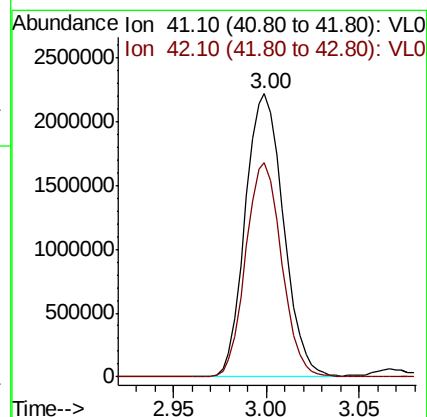
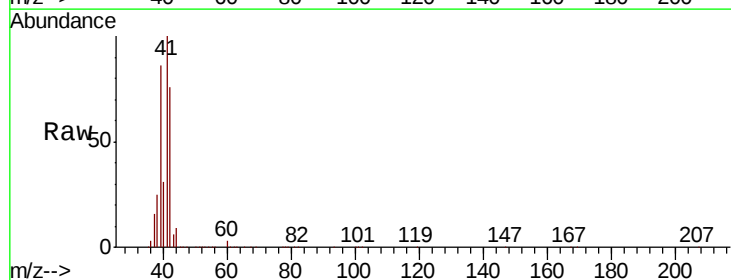
Acq: 12 Oct 2020 19:17

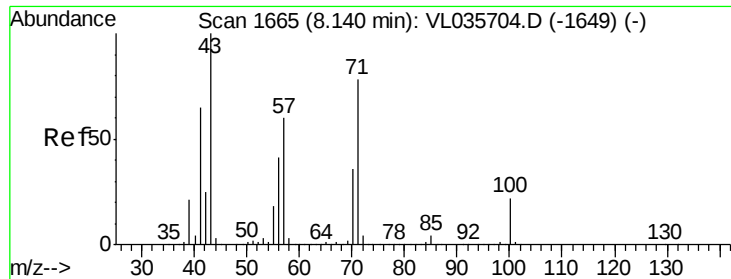
Tgt Ion: 41 Resp: 3179484

Ion Ratio Lower Upper

41 100

42 71.6 56.2 84.4

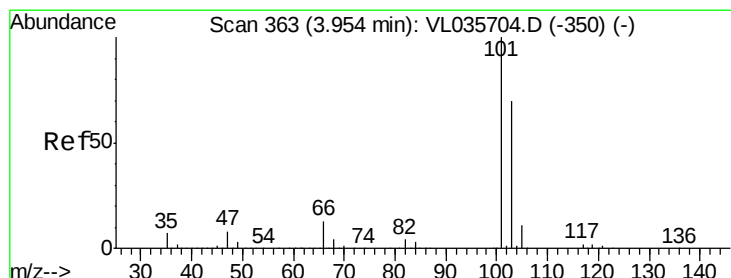
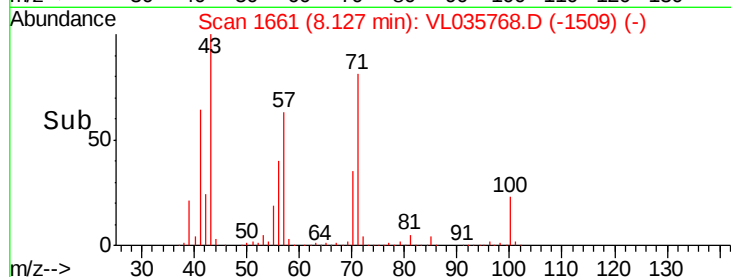
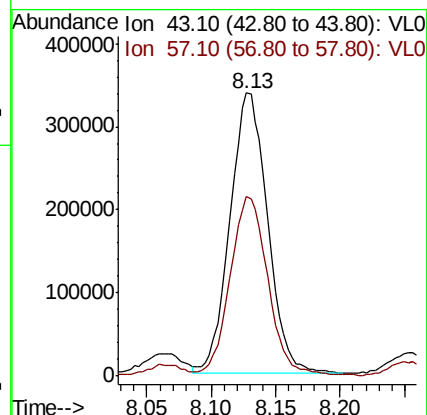
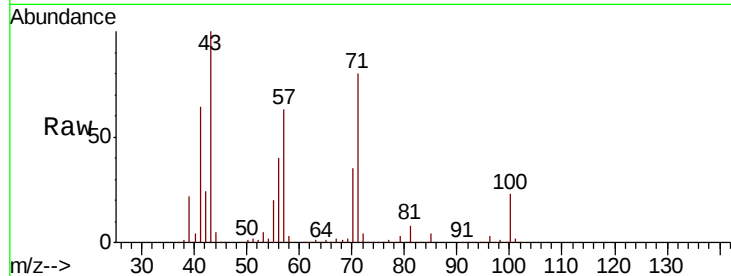




#10  
Heptane  
Concen: 5.801 ppbv  
RT: 8.13 min Scan# 1661  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

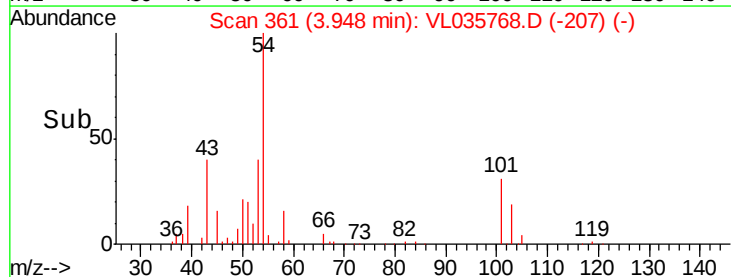
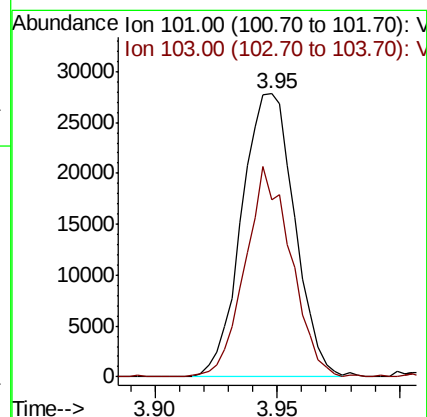
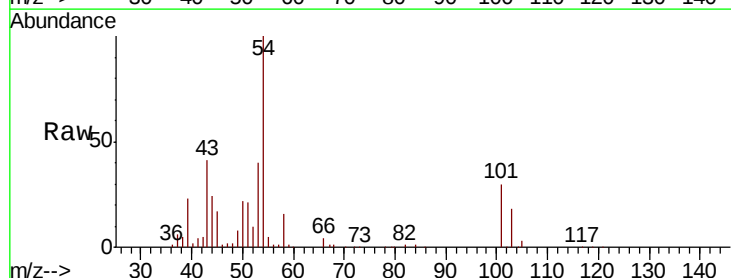
Instrument :  
MSVOA\_L  
ClientSampleId :  
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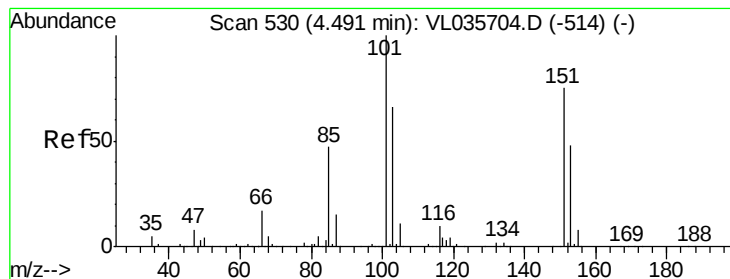
Tot Ion: 43 Resp: 679813  
Ion Ratio Lower Upper  
43 100  
57 63.9 50.4 75.6



#11  
Trichlorofluoromethane  
Concen: 0.166 ppbv  
RT: 3.95 min Scan# 361  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Tgt Ion: 101 Resp: 41801  
Ion Ratio Lower Upper  
101 100  
103 62.4 55.6 83.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampled :

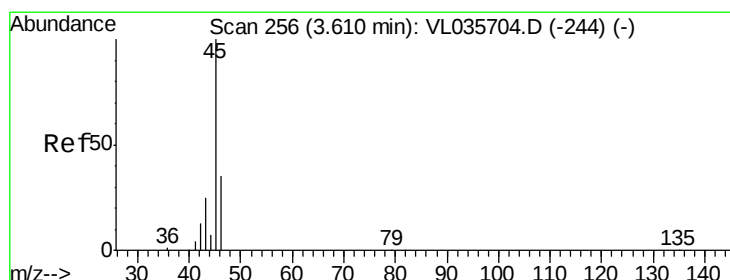
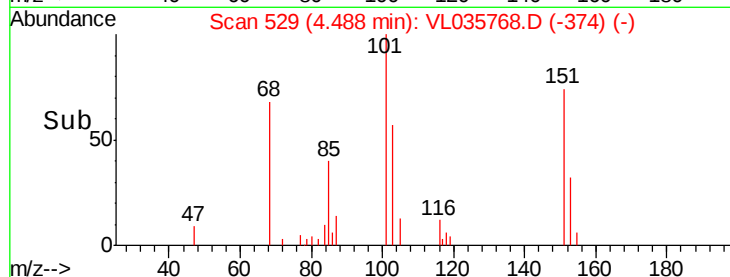
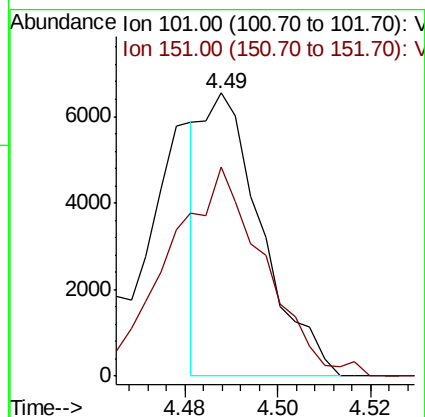
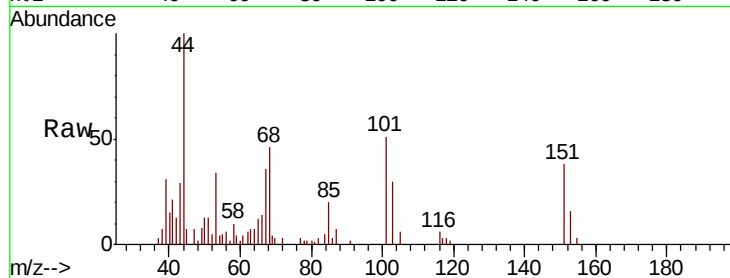
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Tot Ion:101 Resp: 5830

Ion Ratio Lower Upper

101 100

151 121.3 59.1 88.7#



#13

Ethanol

Concen: 37.102 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035768.D

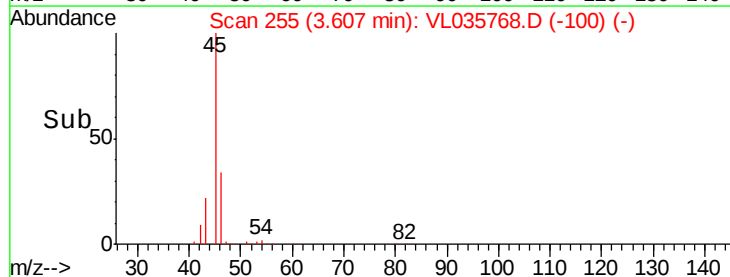
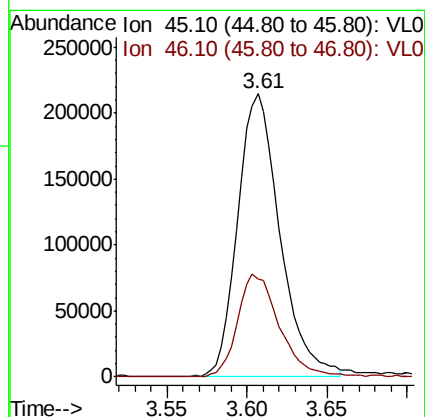
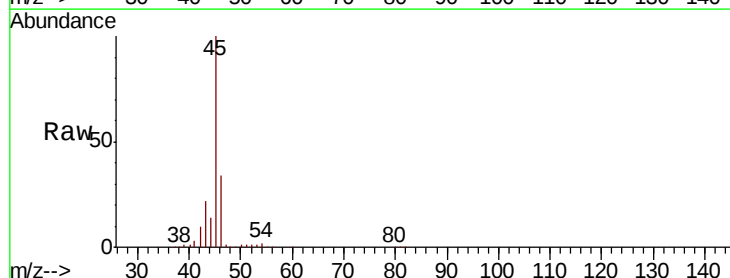
Acq: 12 Oct 2020 19:17

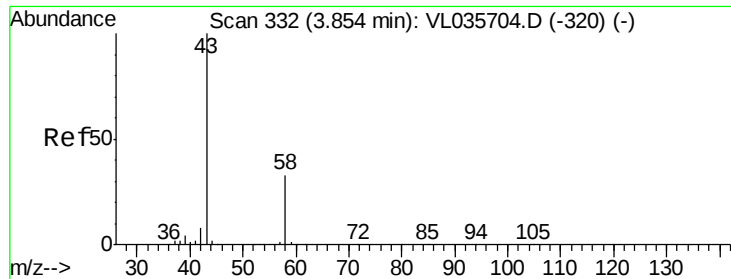
Tgt Ion: 45 Resp: 384601

Ion Ratio Lower Upper

45 100

46 36.6 14.7 58.7





#15

Acetone

Concen: 125.343 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

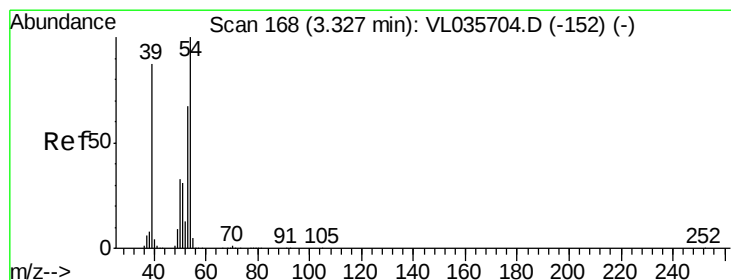
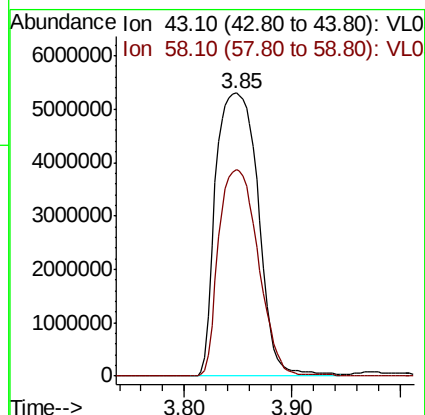
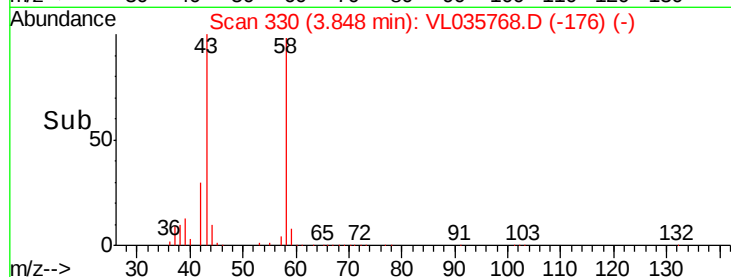
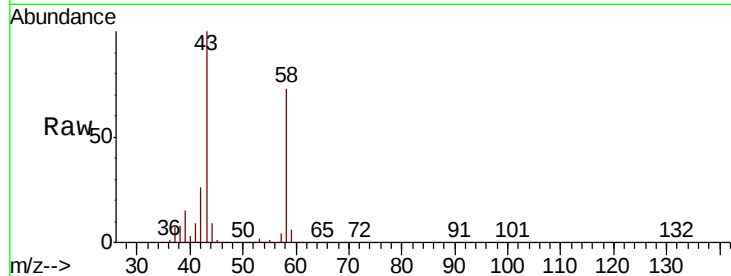
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Tot Ion: 43 Resp:14513948

Ion Ratio Lower Upper

43 100

58 68.4 27.3 40.9#



#16

1,3-Butadiene

Concen: 95.502 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL035768.D

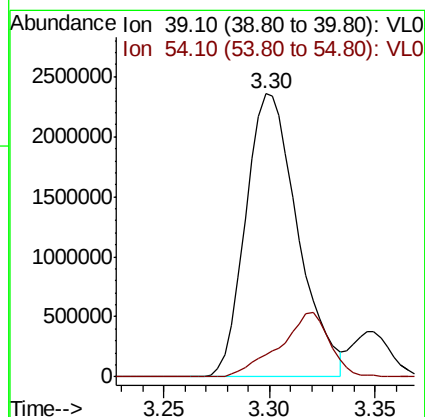
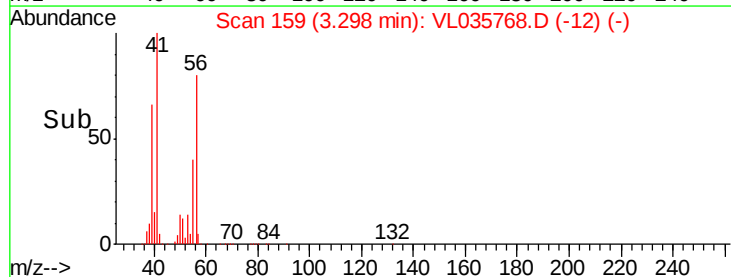
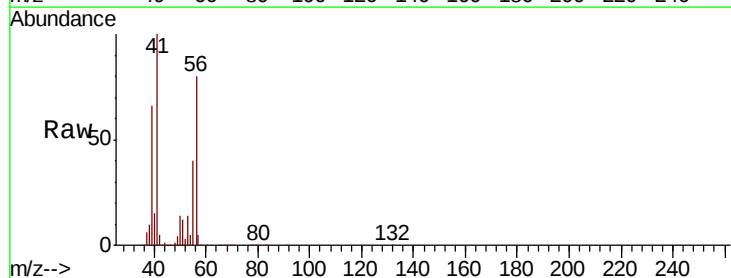
Acq: 12 Oct 2020 19:17

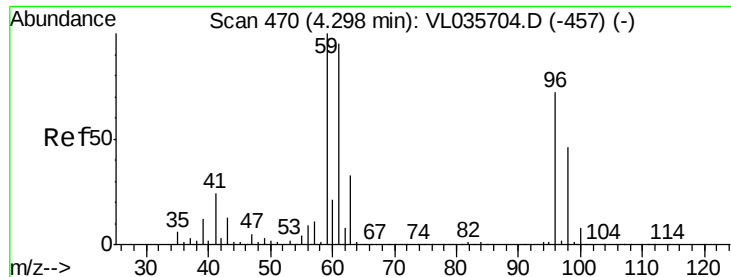
Tgt Ion: 39 Resp: 4045690

Ion Ratio Lower Upper

39 100

54 22.1 87.4 131.0#





#17

tert-Butyl alcohol

Concen: 5.768 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

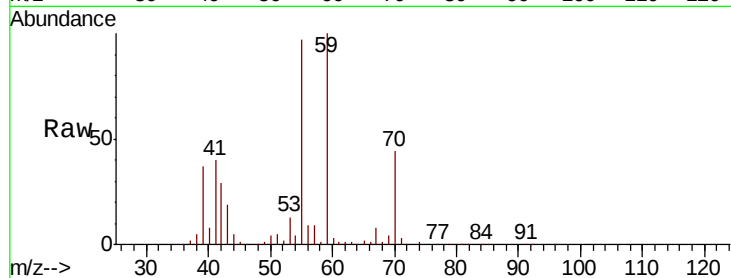
5

Tot Ion: 59 Resp: 727532

Ion Ratio Lower Upper

59 100

57 10.8 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

400000

300000

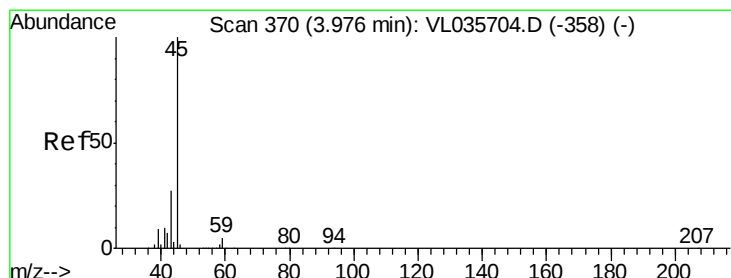
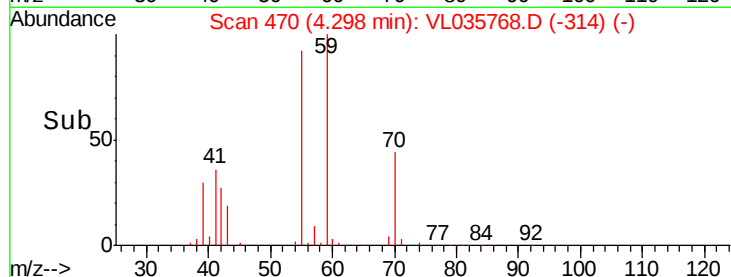
200000

100000

0

Time-->

4.20 4.25 4.30 4.35 4.40



#19

Isopropyl Alcohol

Concen: 8.021 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.01 min

Lab File: VL035768.D

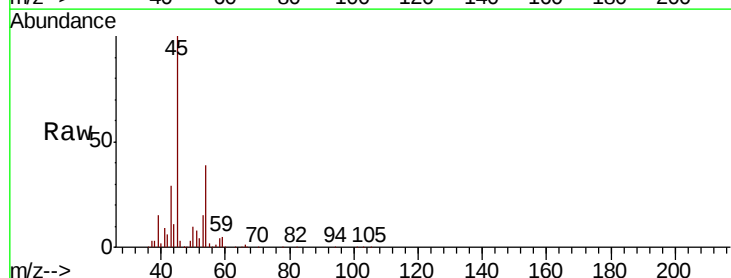
Acq: 12 Oct 2020 19:17

Tgt Ion: 45 Resp: 505256

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

400000

300000

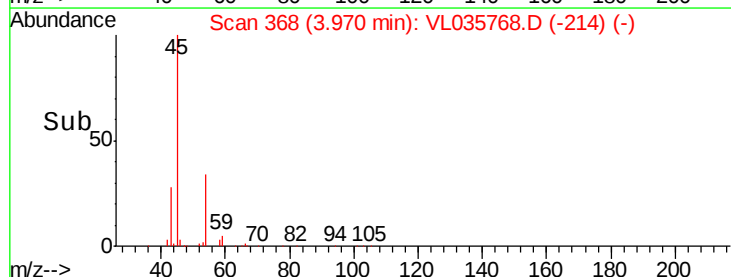
200000

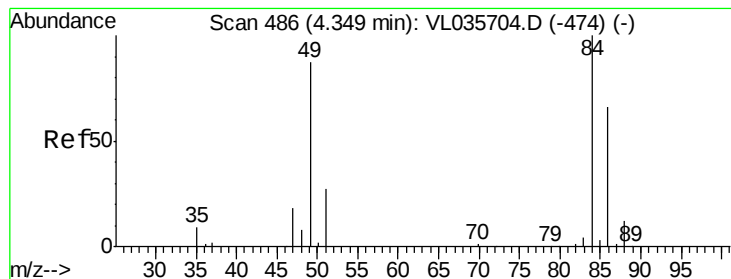
100000

0

Time-->

3.90 3.95 4.00 4.05





#20

Methylene Chloride

Concen: 11.968 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

5

Tot Ion: 84 Resp: 1017927

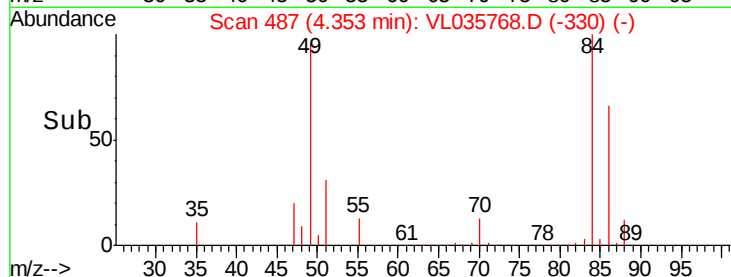
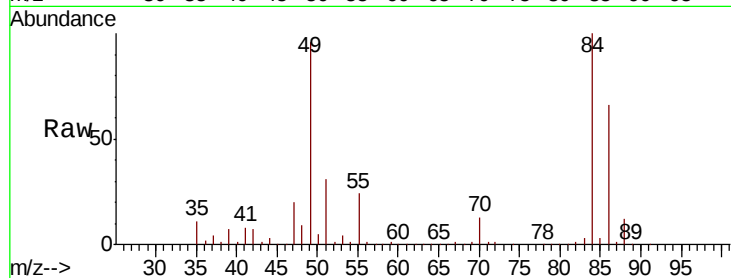
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 96.0  | 69.8  | 104.6 |
| 51  | 30.9  | 21.8  | 32.8  |
| 86  | 65.8  | 52.6  | 78.8  |

84 100

49 96.0 69.8 104.6

51 30.9 21.8 32.8

86 65.8 52.6 78.8

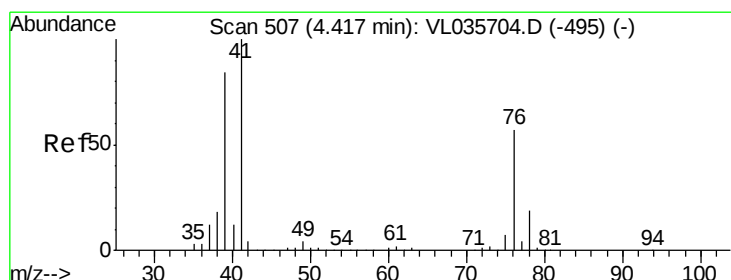
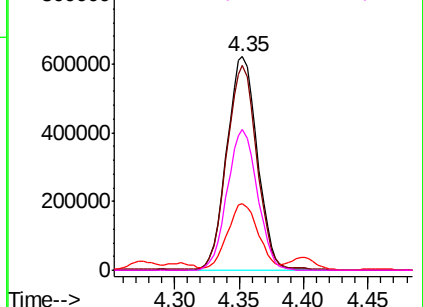


Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allyl Chloride

Concen: 2.331 ppbv

RT: 4.40 min Scan# 501

Delta R.T. -0.02 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

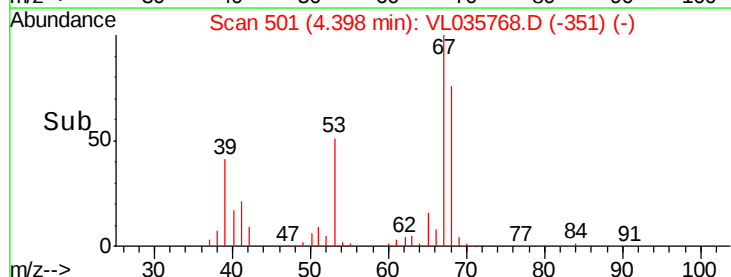
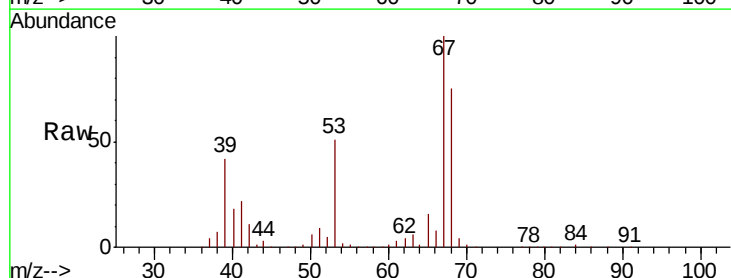
Tgt Ion: 41 Resp: 130811

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 41  | 100   |       |        |
| 76  | 0.0   | 44.8  | 67.2#  |
| 39  | 287.9 | 68.4  | 102.6# |

41 100

76 0.0 44.8 67.2#

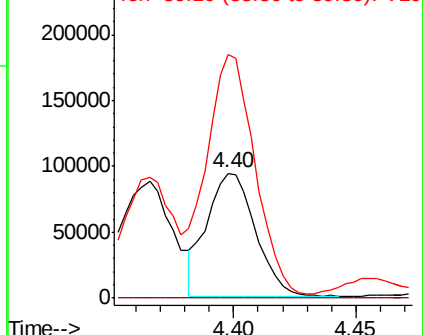
39 287.9 68.4 102.6#

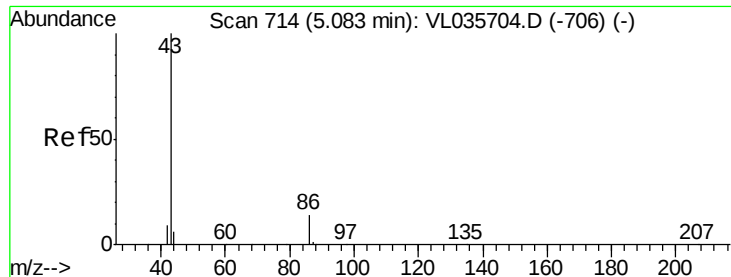


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 4.924 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

5

Tot Ion: 43 Resp: 698419

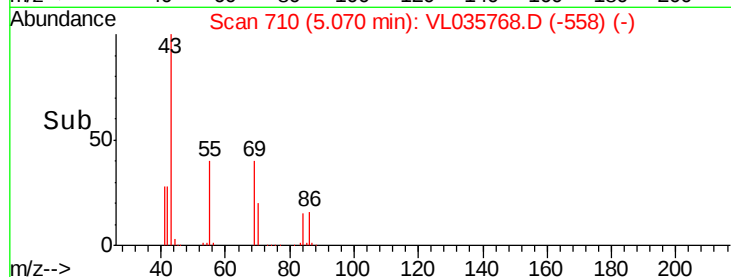
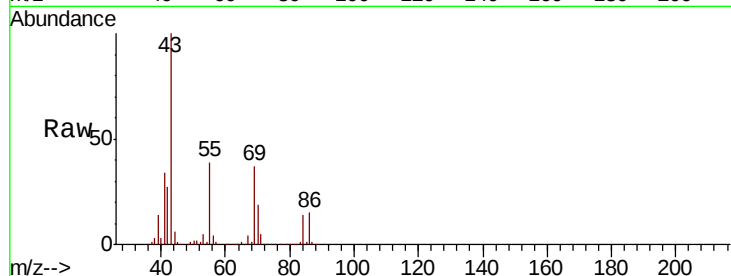
Ion Ratio Lower Upper

43 100

86 14.9 9.7 14.5#

42 26.9 7.9 11.9#

44 2.5 4.8 7.2#

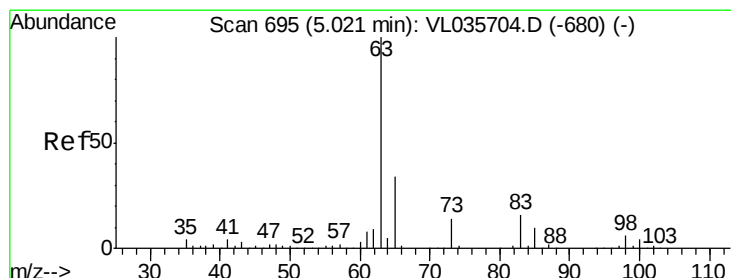
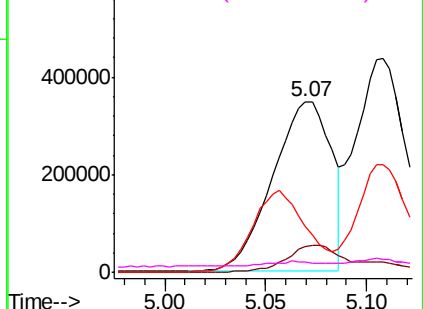


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.030 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.04 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

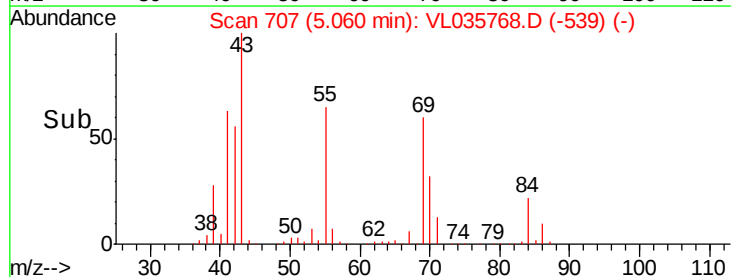
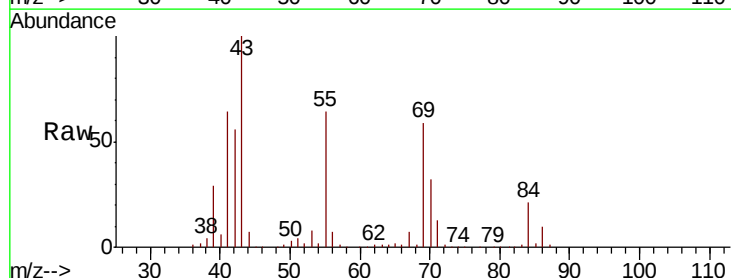
Tgt Ion: 63 Resp: 4678

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

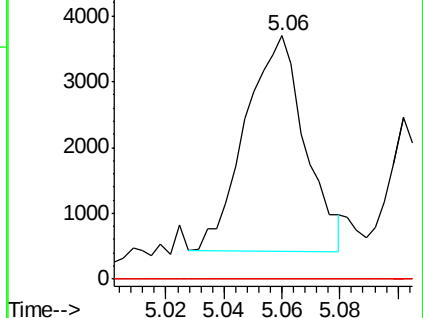
100 0.0 2.0 5.8#

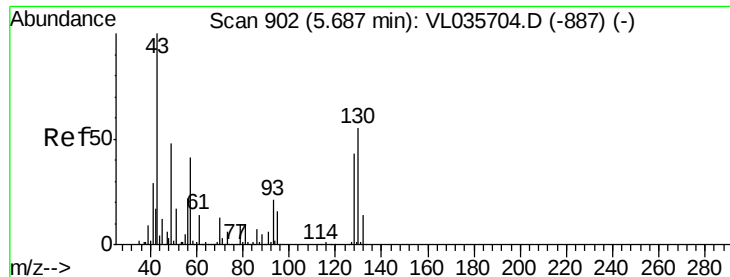


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 3.698 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
5

Tot Ion: 43 Resp: 770538

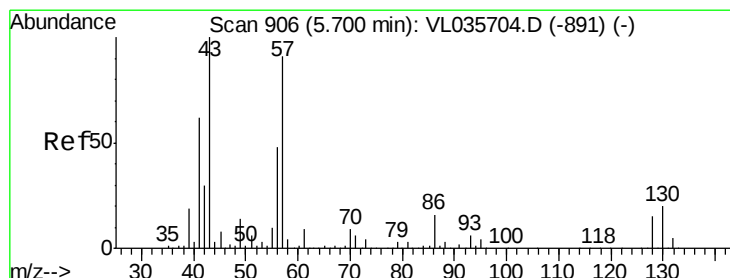
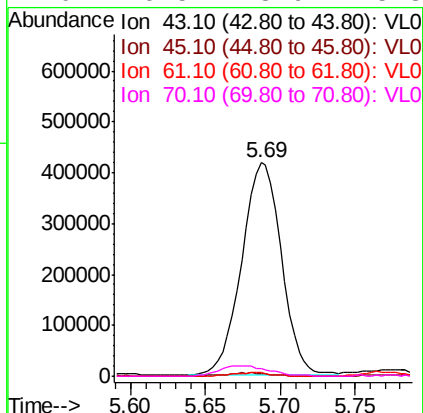
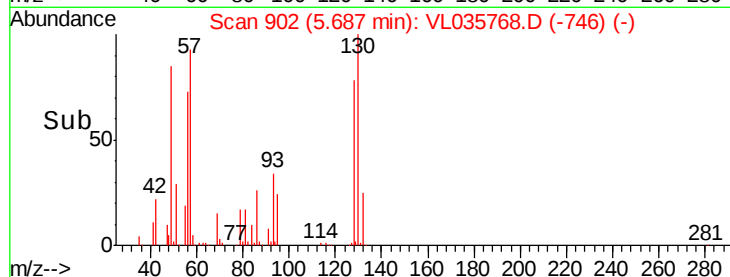
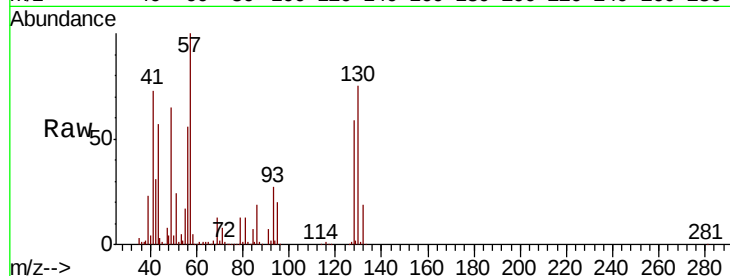
Ion Ratio Lower Upper

43 100

45 1.5 8.6 12.8#

61 1.7 10.4 15.6#

70 6.5 8.9 13.3#



#26

Hexane

Concen: 11.401 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Tgt Ion: 57 Resp: 1301753

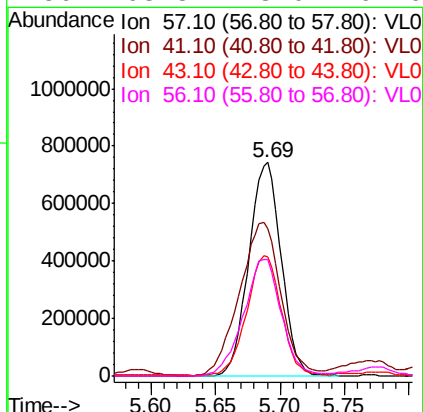
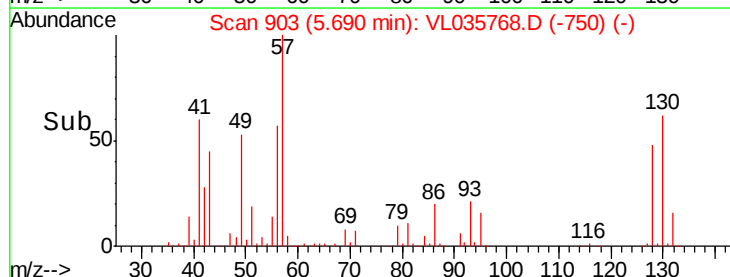
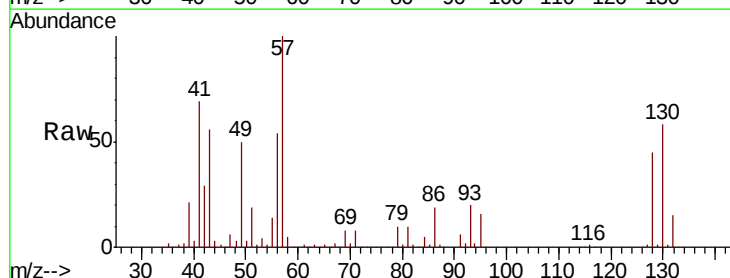
Ion Ratio Lower Upper

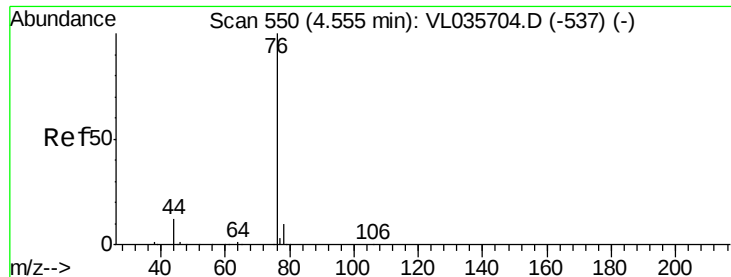
57 100

41 90.8 57.9 86.9#

43 59.6 143.8 215.6#

56 63.8 43.0 64.6





#27

Carbon Disulfide

Concen: 7.815 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

5

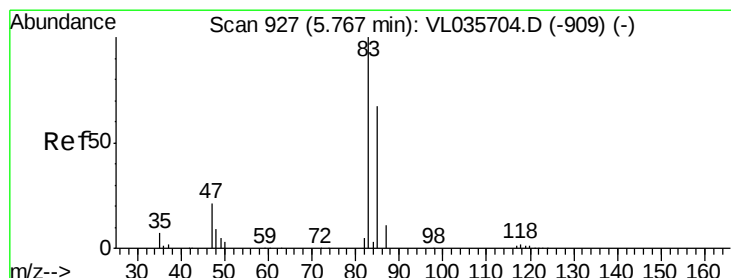
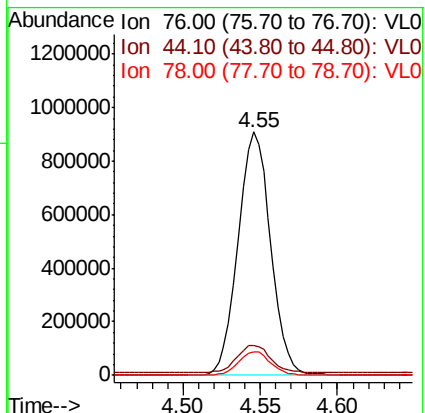
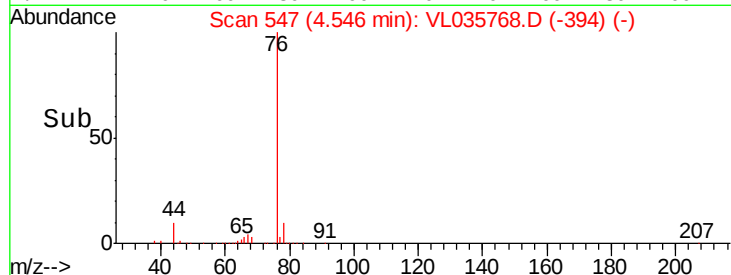
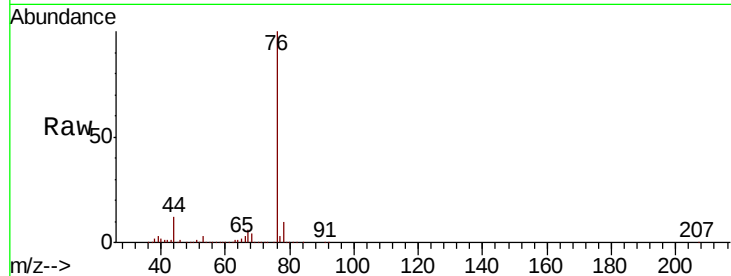
Tot Ion: 76 Resp: 1329978

Ion Ratio Lower Upper

76 100

44 11.6 9.7 14.5

78 9.8 7.8 11.8



#29

Chloroform

Concen: 0.135 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL035768.D

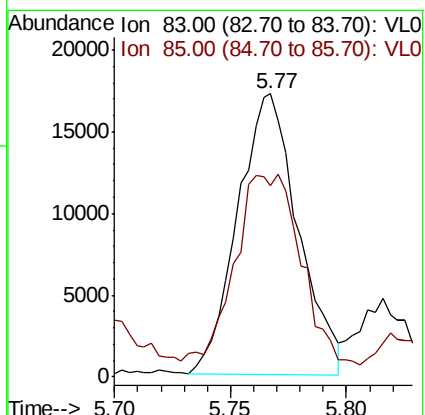
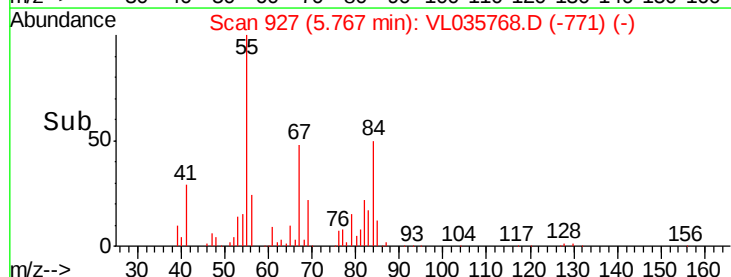
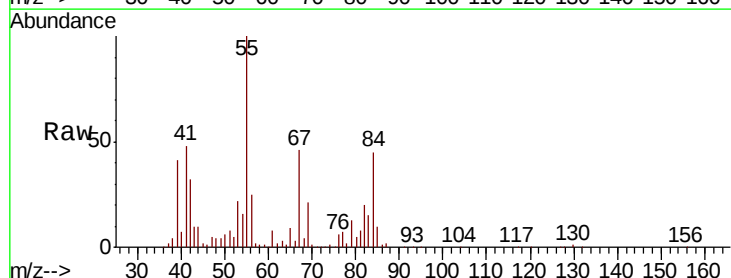
Acq: 12 Oct 2020 19:17

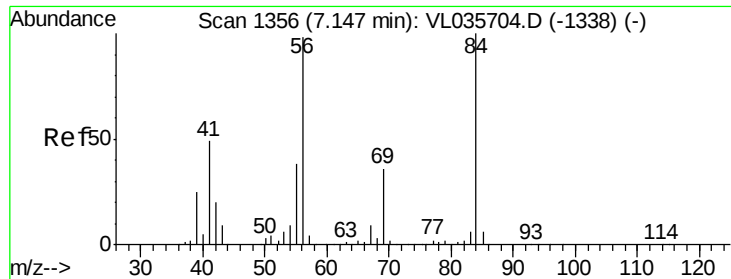
Tgt Ion: 83 Resp: 31275

Ion Ratio Lower Upper

83 100

85 62.6 54.0 81.0

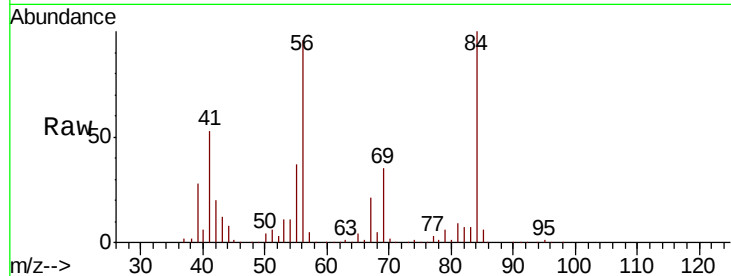




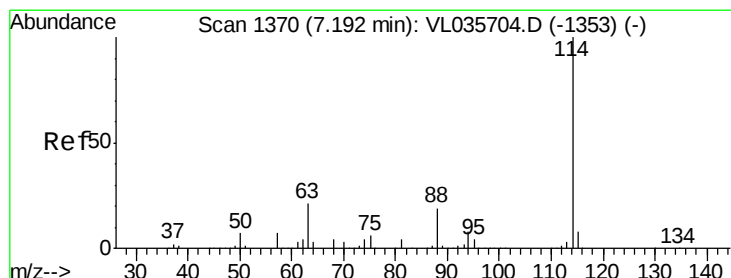
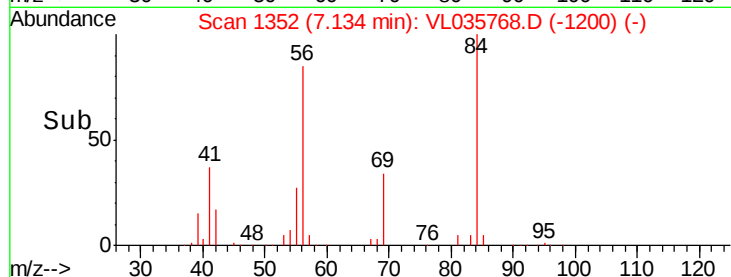
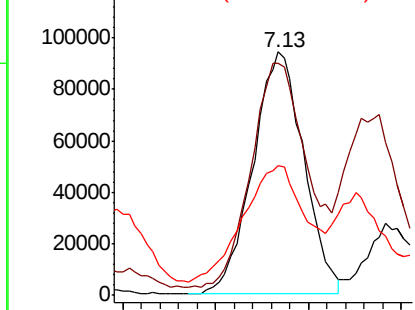
#30  
Cvclohexane  
Concen: 1.603 ppbv  
RT: 7.13 min Scan# 1352  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Instrument :  
MSVOA\_L  
ClientSampled :  
5

Tot Ion: 84 Resp: 180605  
Ion Ratio Lower Upper  
84 100  
56 107.2 84.6 127.0  
41 55.1 41.1 61.7

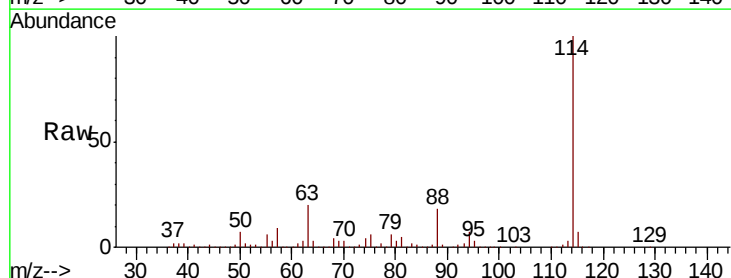


Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0

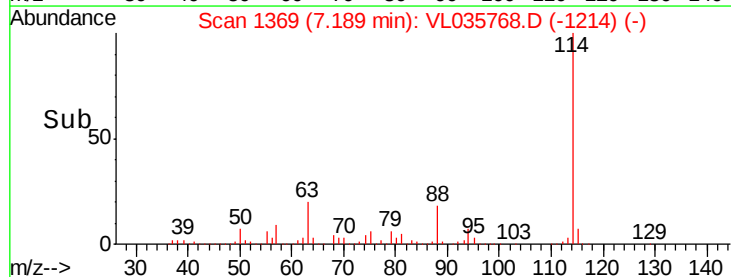
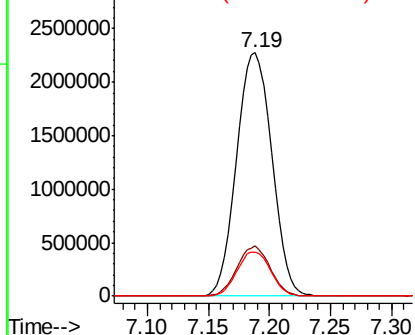


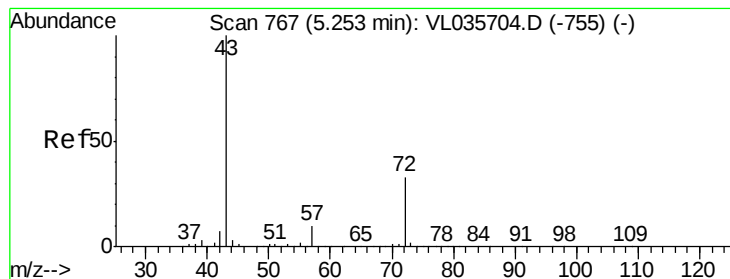
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.19 min Scan# 1369  
Delta R.T. -0.00 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Tgt Ion: 114 Resp: 4558652  
Ion Ratio Lower Upper  
114 100  
63 19.5 16.1 24.1  
88 17.5 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 43.392 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampled :

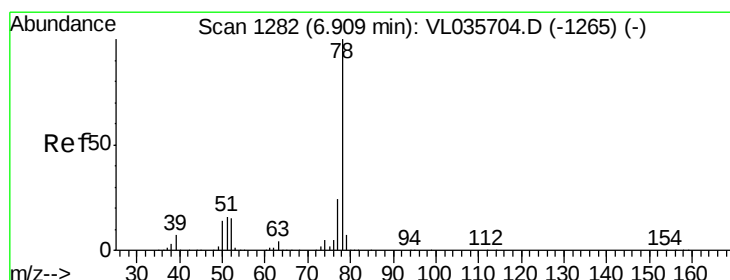
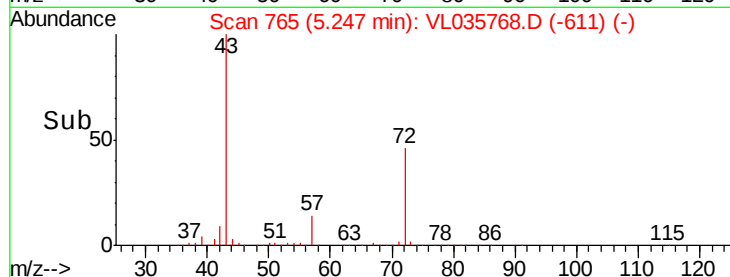
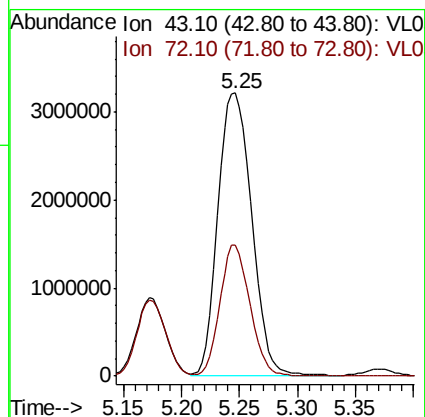
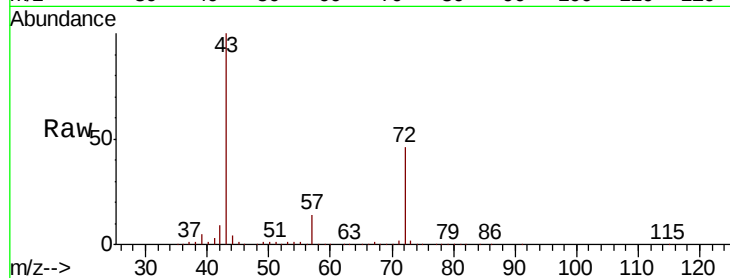
5

Tot Ion: 43 Resp: 6542649

Ion Ratio Lower Upper

43 100

72 40.8 26.1 39.1#



#36

Benzene

Concen: 7.466 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

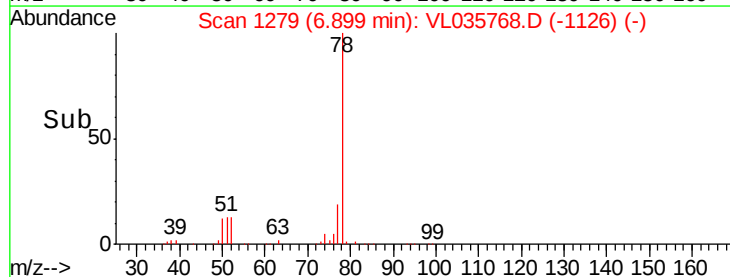
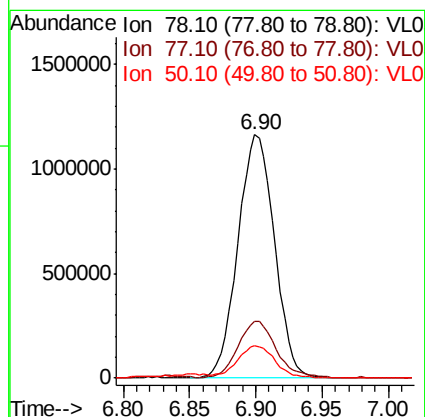
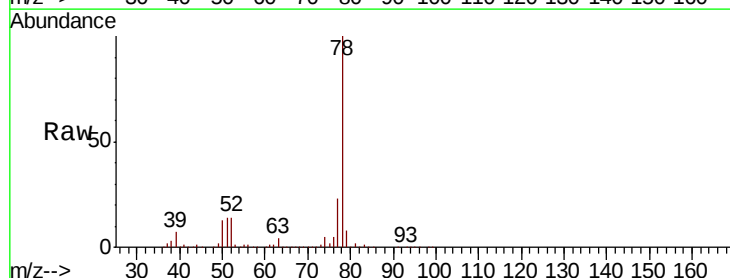
Tgt Ion: 78 Resp: 2217574

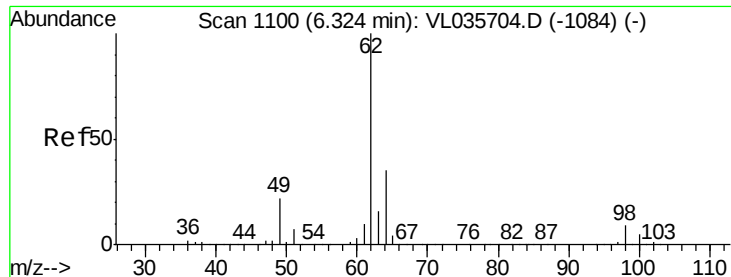
Ion Ratio Lower Upper

78 100

77 23.1 19.3 28.9

50 13.3 11.6 17.4

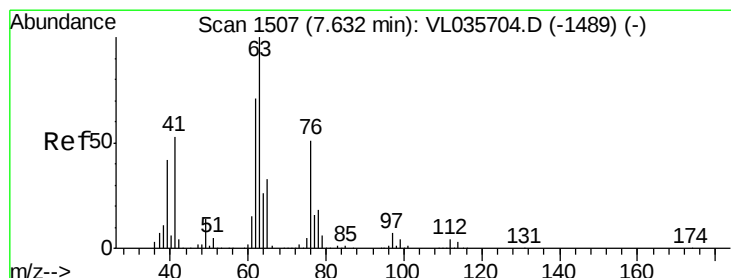
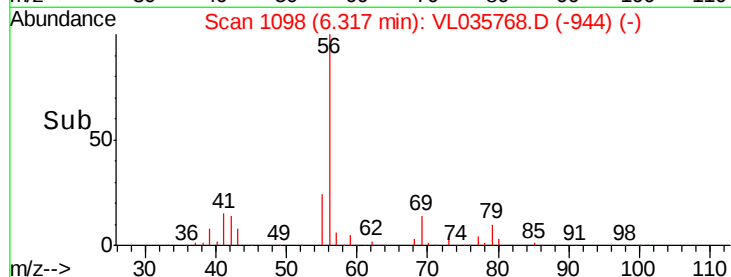
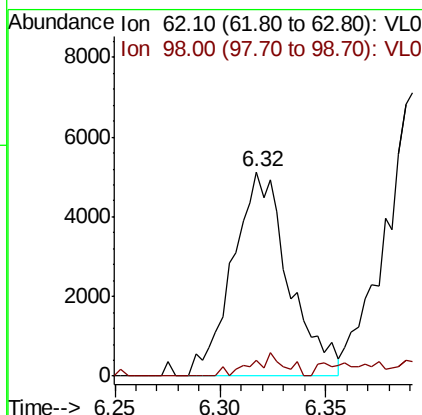
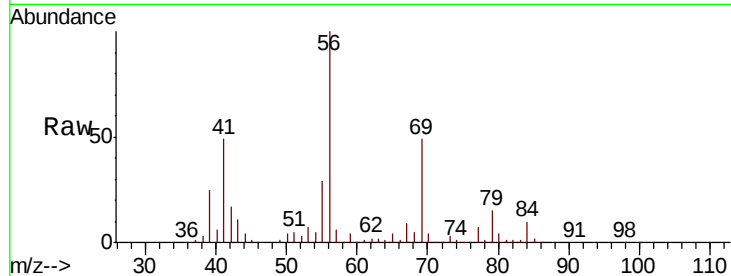




#37  
 1,2-Dichloroethane  
 Concen: 0.061 ppbv  
 RT: 6.32 min Scan# 1098  
 Delta R.T. -0.01 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

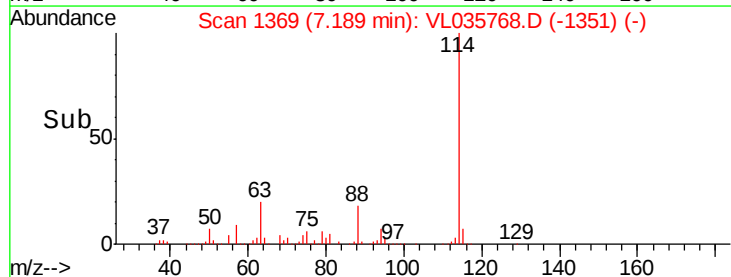
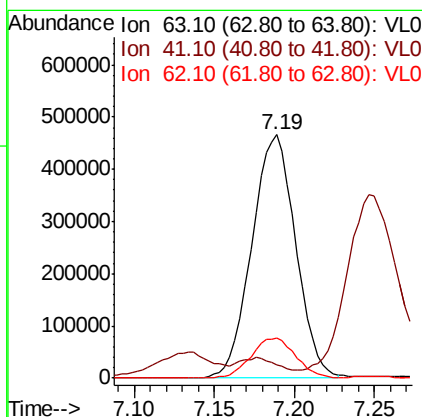
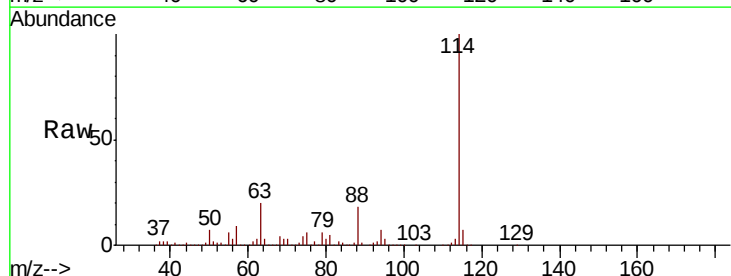
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 5

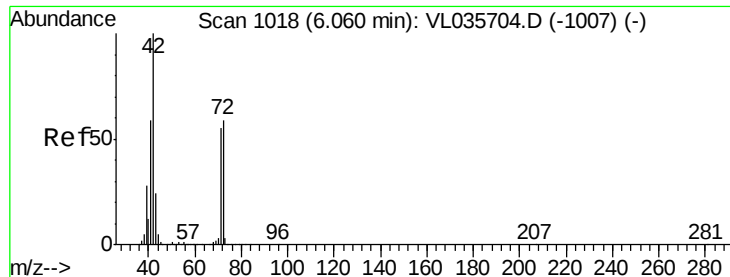
Tot Ion: 62 Resp: 9474  
 Ion Ratio Lower Upper  
 62 100  
 98 6.6 6.9 10.3#



#39  
 1,2-Dichloropropane  
 Concen: 8.123 ppbv  
 RT: 7.19 min Scan# 1369  
 Delta R.T. -0.44 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

Tgt Ion: 63 Resp: 874557  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 42.6 63.8#  
 62 16.7 56.5 84.7#





#41

Tetrahydrofuran

Concen: 0.166 ppbv

RT: 6.11 min Scan# 1035

Delta R.T. 0.05 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampled :

5

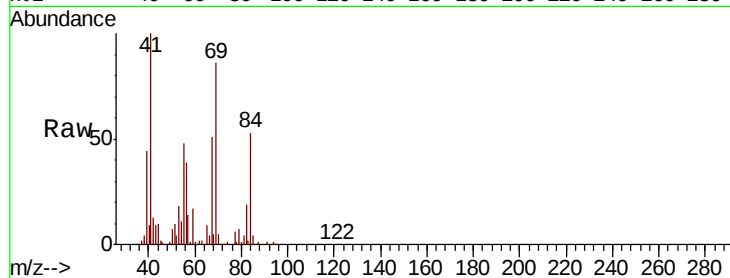
Tot Ion: 42 Resp: 12617

Ion Ratio Lower Upper

42 100

72 66.6 46.2 69.4

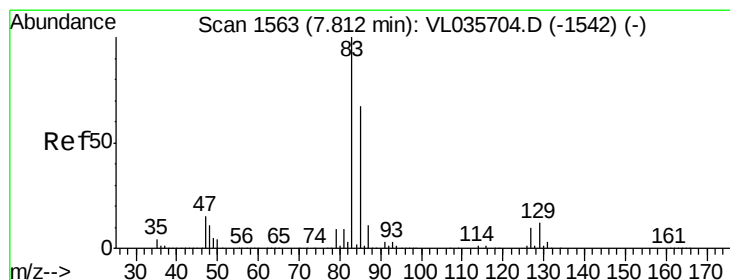
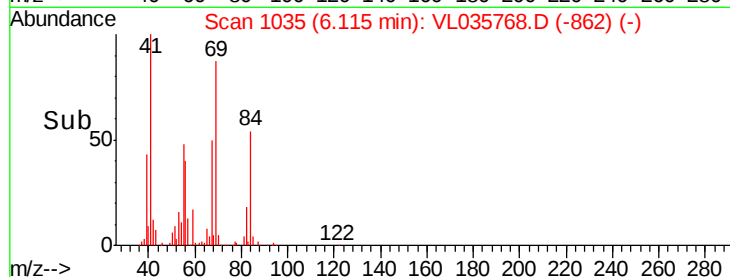
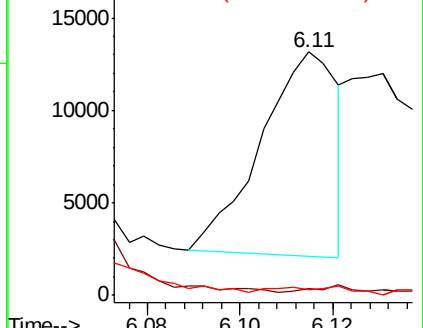
71 54.8 44.2 66.4



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: 0.123 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

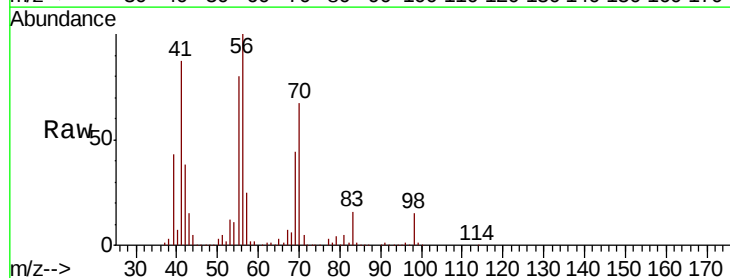
Tgt Ion: 83 Resp: 30551

Ion Ratio Lower Upper

83 100

85 3.9 53.4 80.0#

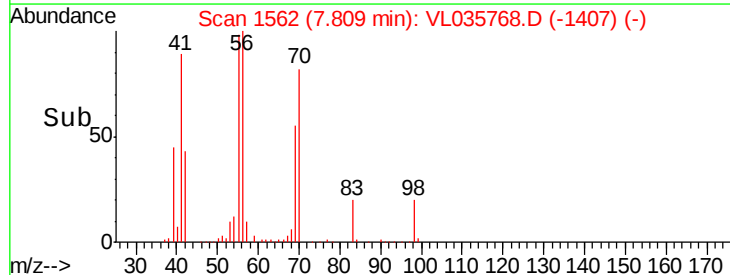
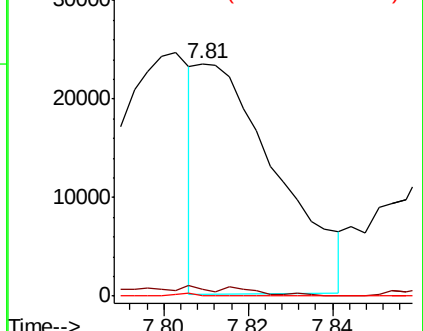
127 0.0 7.8 11.6#

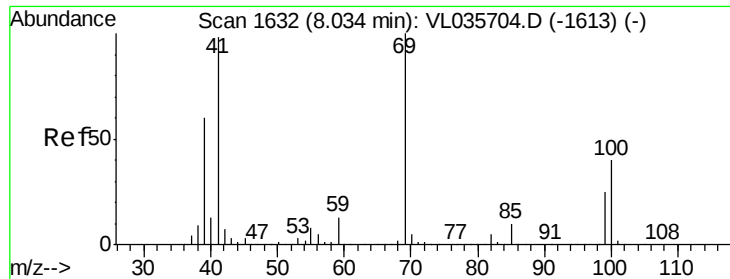


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

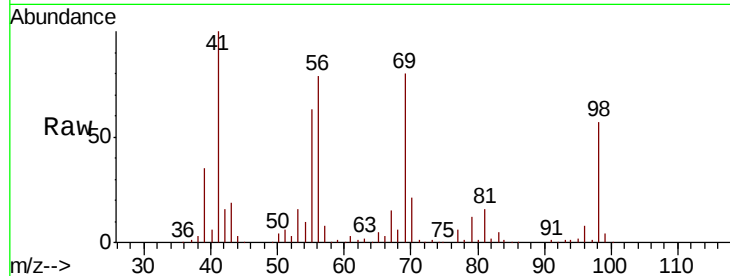




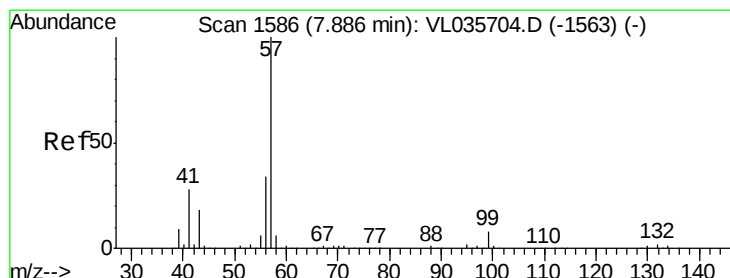
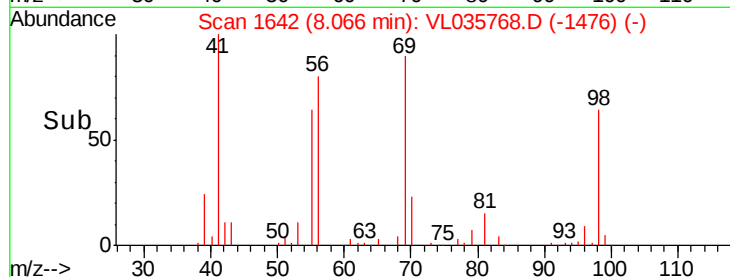
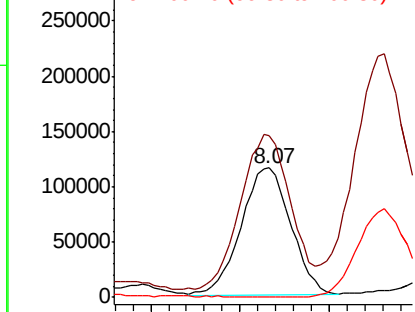
#43  
Methyl Methacrylate  
Concen: 1.889 ppbv  
RT: 8.07 min Scan# 1642  
Delta R.T. 0.03 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Instrument :  
MSVOA\_L  
ClientSampled :  
5

Tot Ion: 69 Resp: 223220  
Ion Ratio Lower Upper  
69 100  
41 125.4 79.8 119.6#  
100 0.0 30.6 46.0#

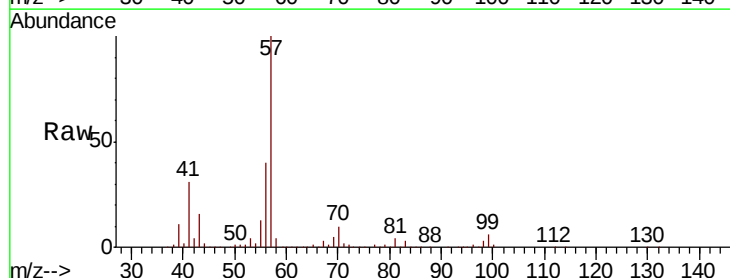


Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0

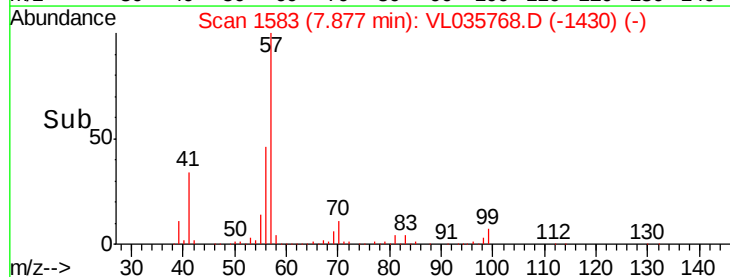
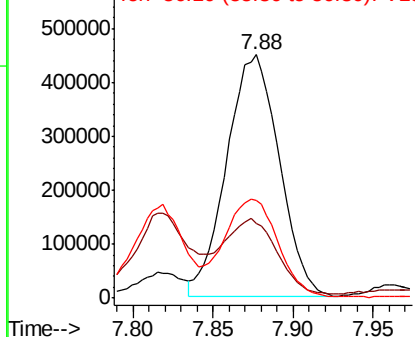


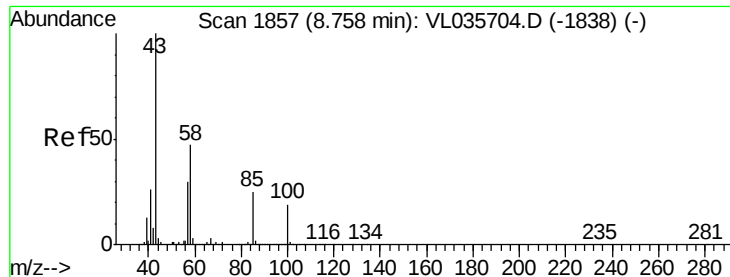
#44  
2,2,4-Trimethylpentane  
Concen: 2.360 ppbv  
RT: 7.88 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Tgt Ion: 57 Resp: 1006006  
Ion Ratio Lower Upper  
57 100  
41 33.6 21.2 31.8#  
56 41.3 25.8 38.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

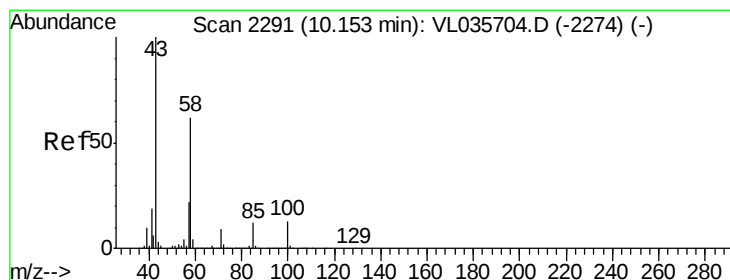
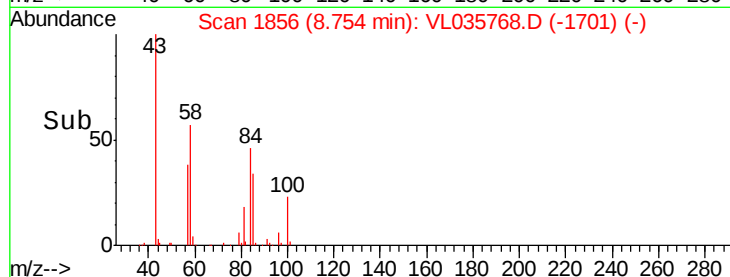
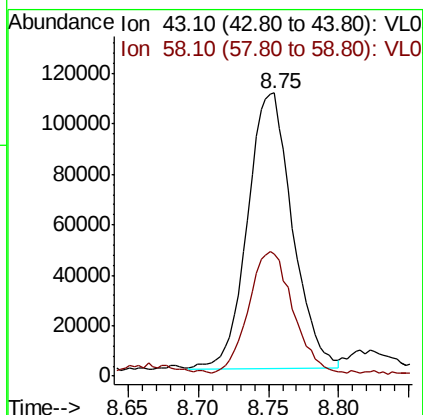
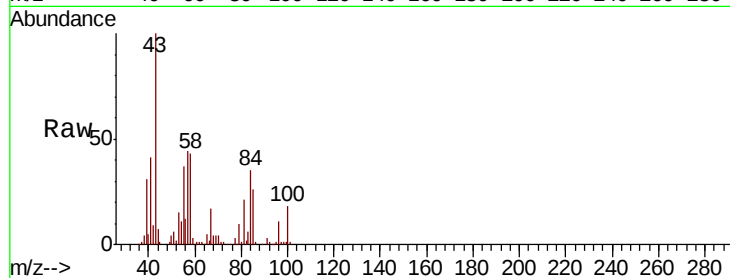




#50  
 4-Methyl-2-Pentanone  
 Concen: 1.108 ppbv  
 RT: 8.75 min Scan# 1856  
 Delta R.T. -0.00 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

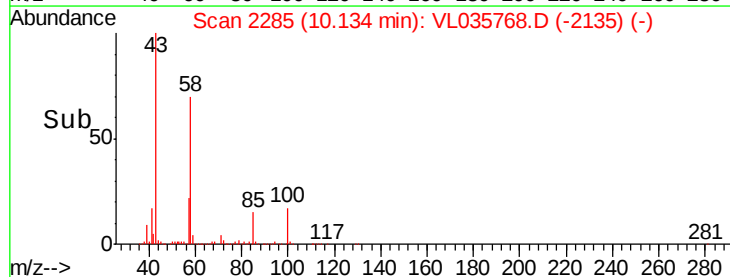
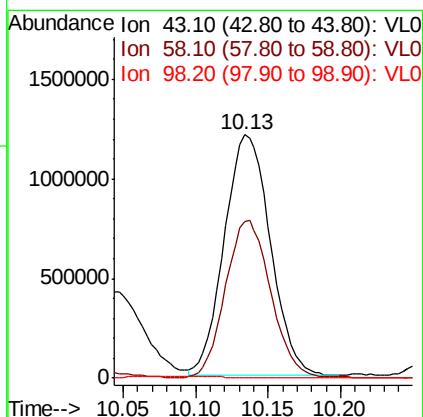
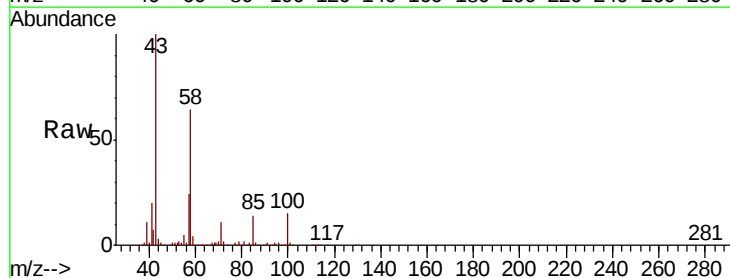
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 5

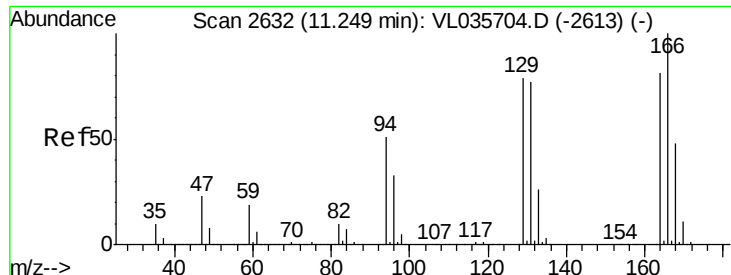
Tot Ion: 43 Resp: 243943  
 Ion Ratio Lower Upper  
 43 100  
 58 47.0 36.6 54.8



#51  
 2-Hexanone  
 Concen: 14.984 ppbv  
 RT: 10.13 min Scan# 2285  
 Delta R.T. -0.02 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

Tgt Ion: 43 Resp: 2658680  
 Ion Ratio Lower Upper  
 43 100  
 58 64.6 48.7 73.1  
 98 0.0 0.7 1.1#





#52

Tetrachloroethene

Concen: 0.300 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.02 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

5

Tot Ion:164 Resp: 42918

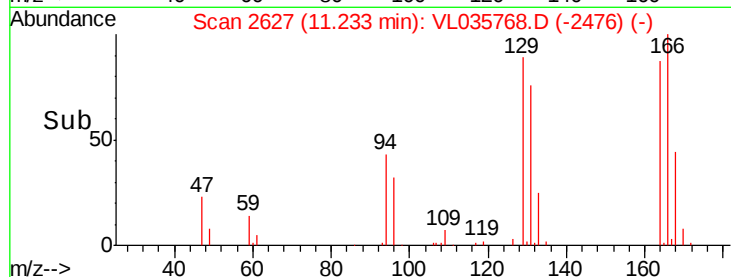
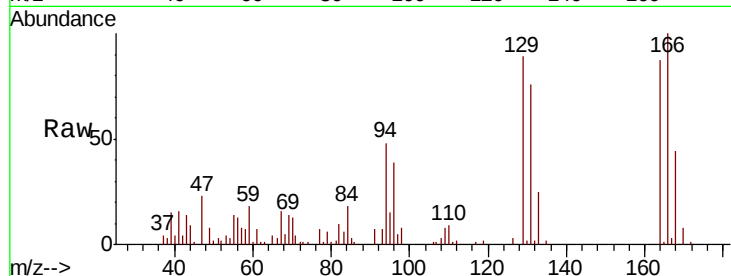
Ion Ratio Lower Upper

164 100

166 115.4 98.7 148.1

129 102.1 78.4 117.6

131 87.5 76.2 114.2

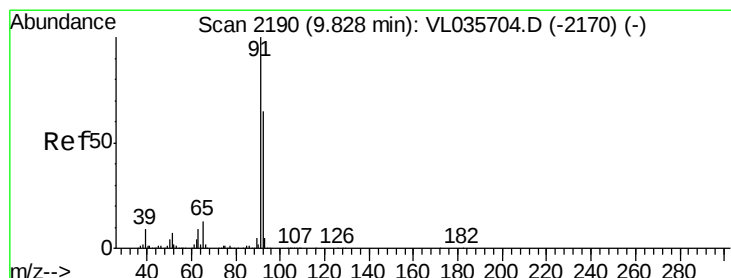
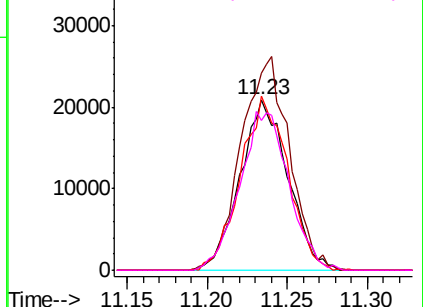


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 26.759 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL035768.D

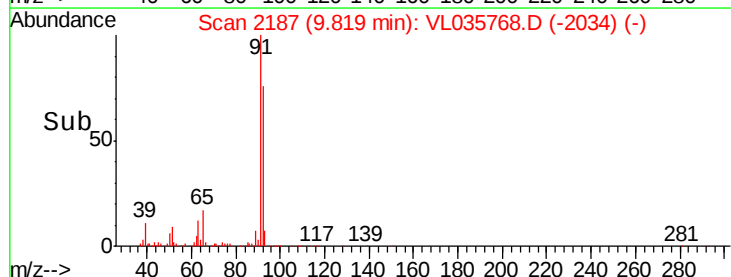
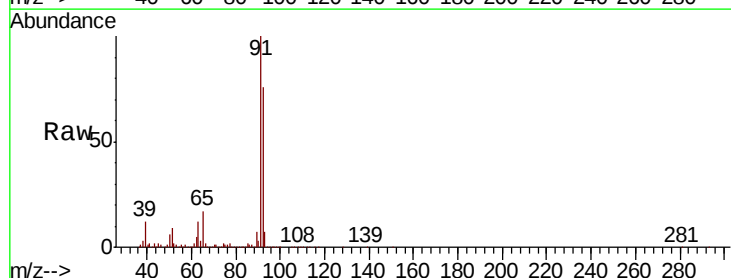
Acq: 12 Oct 2020 19:17

Tgt Ion: 91 Resp: 9372714

Ion Ratio Lower Upper

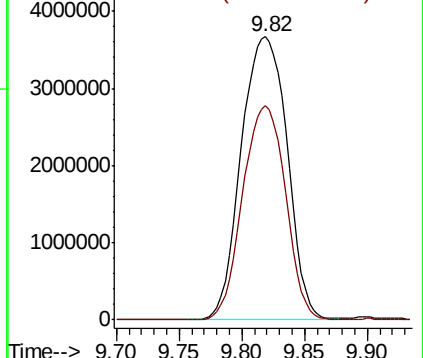
91 100

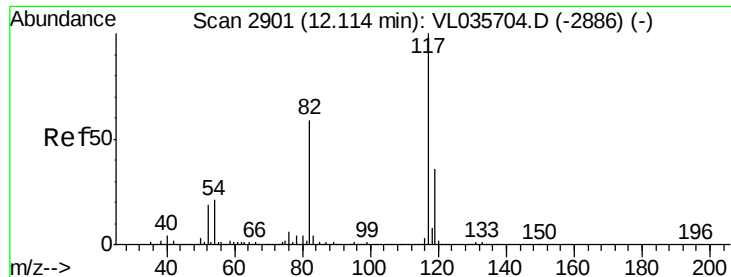
92 70.5 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

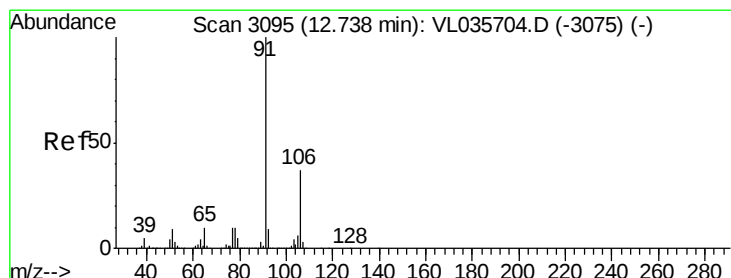
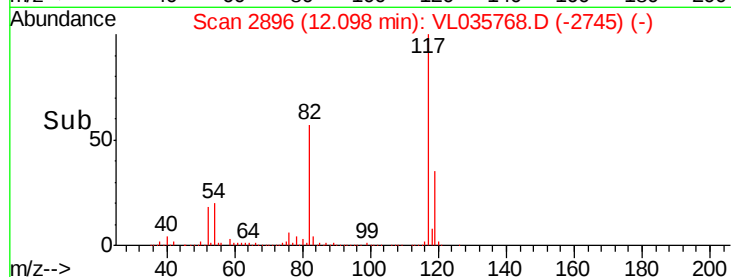
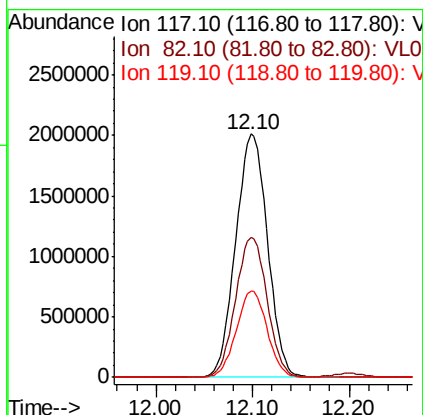
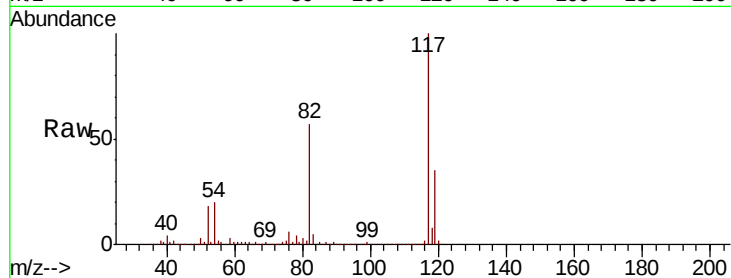




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2896  
Delta R.T. -0.02 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

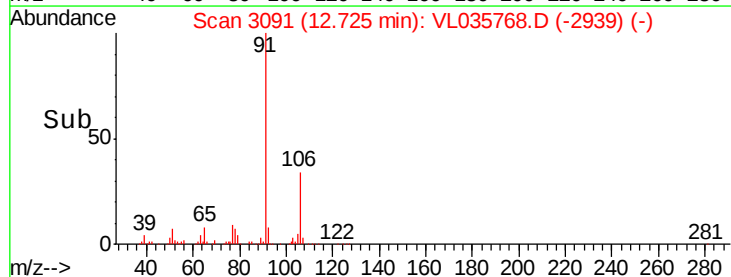
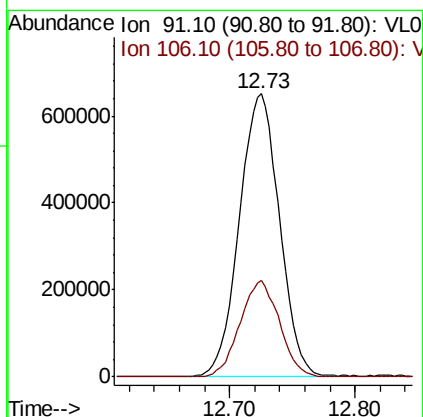
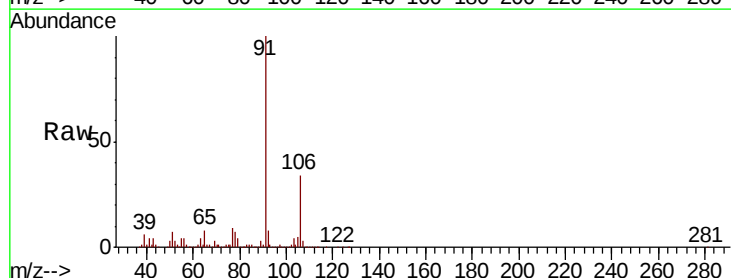
Instrument :  
MSVOA\_L  
ClientSampleId :  
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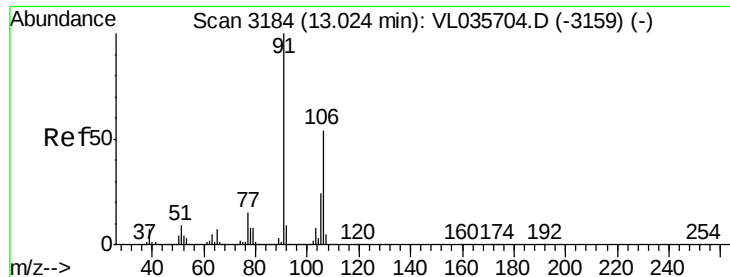
Tot Ion:117 Resp: 4610163  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.1 69.1  
119 34.4 28.0 42.0



#58  
Ethyl Benzene  
Concen: 3.109 ppbv  
RT: 12.73 min Scan# 3091  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

Tgt Ion: 91 Resp: 1438400  
Ion Ratio Lower Upper  
91 100  
106 34.0 29.7 44.5





#59

m/p-Xylene

Concen: 9.632 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.05 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

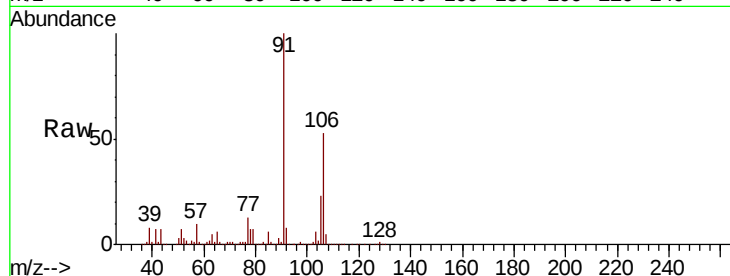
5

Tot Ion: 91 Resp: 3892221

Ion Ratio Lower Upper

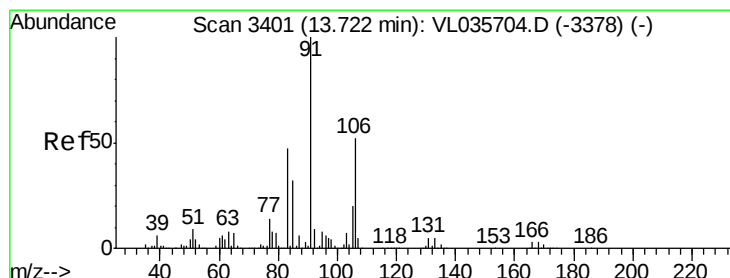
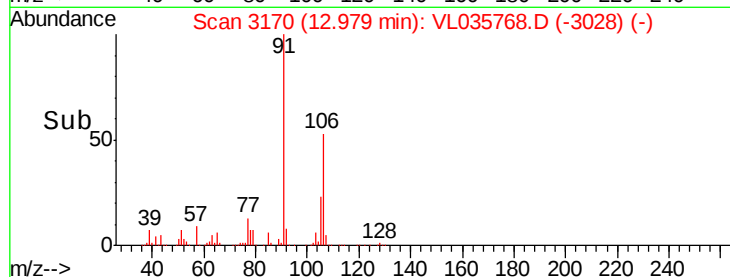
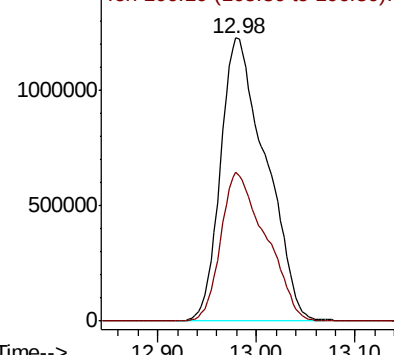
91 100

106 52.4 41.4 62.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 3.650 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.02 min

Lab File: VL035768.D

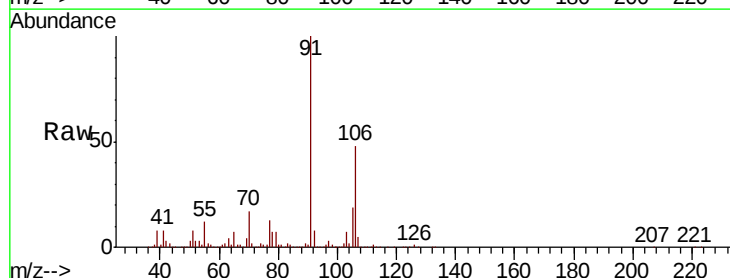
Acq: 12 Oct 2020 19:17

Tgt Ion: 91 Resp: 1491779

Ion Ratio Lower Upper

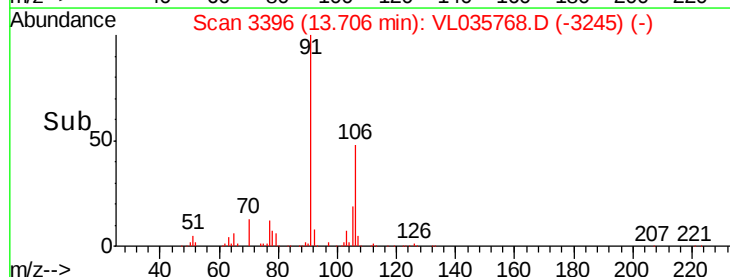
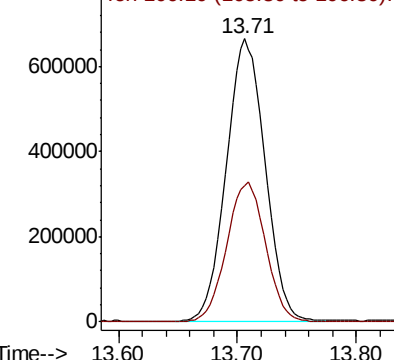
91 100

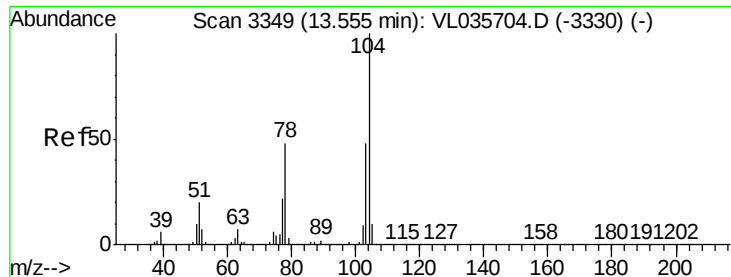
106 49.8 25.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

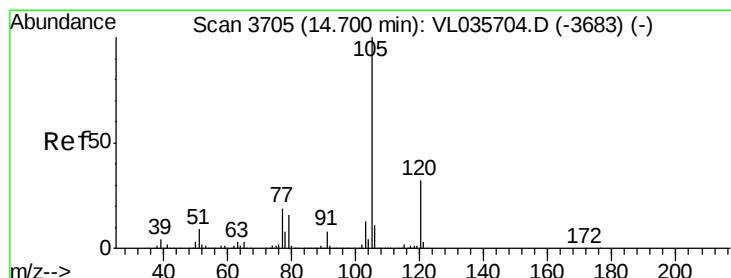
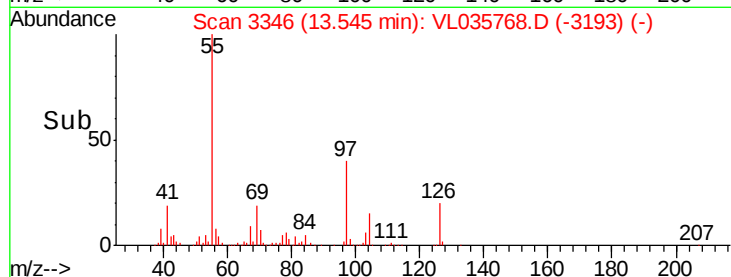
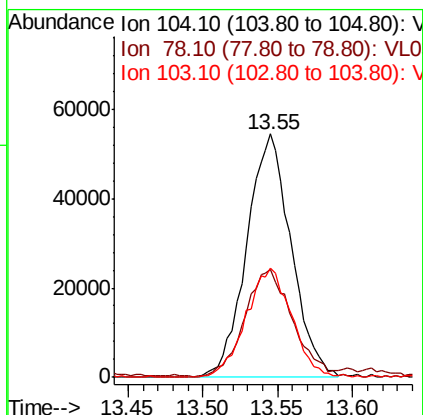
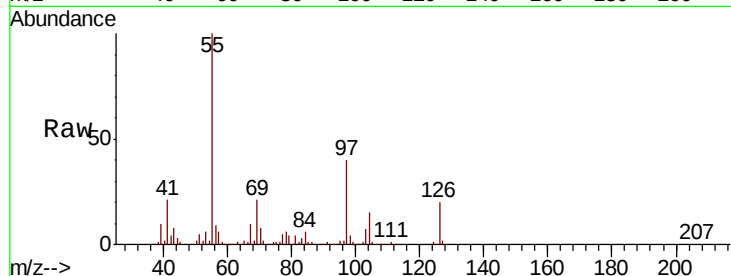




#61  
Stvrene  
Concen: 0.397 ppbv  
RT: 13.55 min Scan# 3346  
Delta R.T. -0.01 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

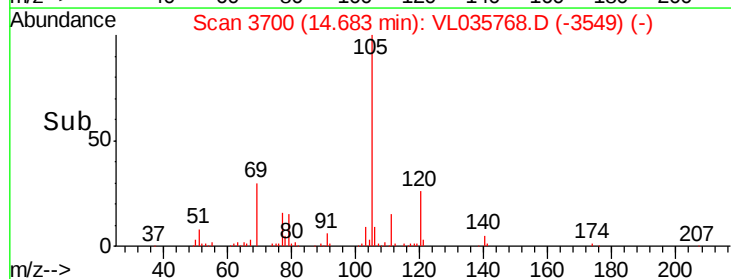
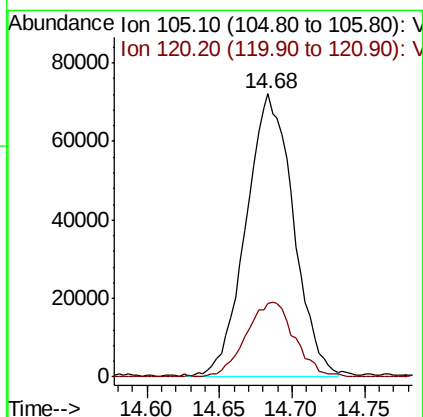
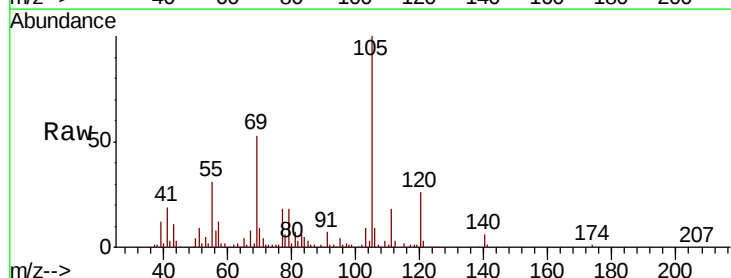
Instrument :  
MSVOA\_L  
ClientSampleId :  
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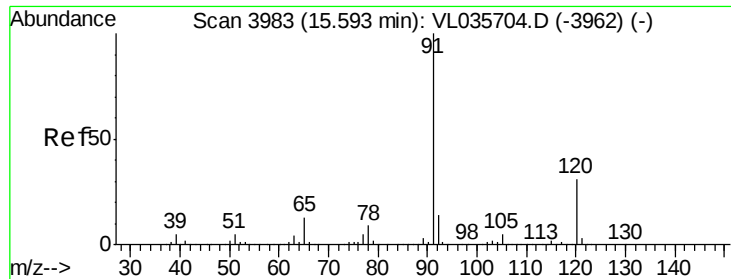
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.8  | 37.2  | 55.8  |
| 103     | 47.1  | 38.2  | 57.2  |



#62  
Isopropylbenzene  
Concen: 0.257 ppbv  
RT: 14.68 min Scan# 3700  
Delta R.T. -0.02 min  
Lab File: VL035768.D  
Acq: 12 Oct 2020 19:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.3  | 24.1  | 36.1  |





#64

n-propylbenzene

Concen: 0.775 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

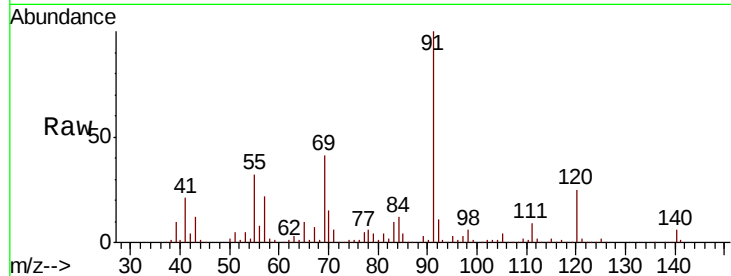
5

Tot Ion:120 Resp: 143901

Ion Ratio Lower Upper

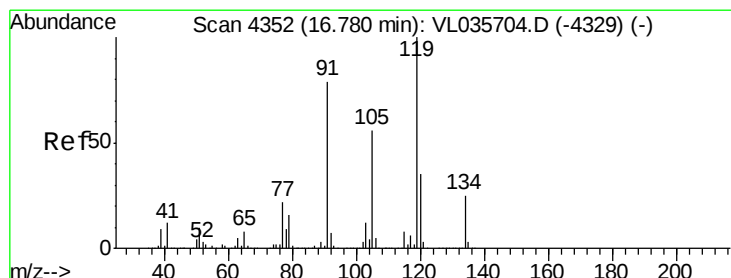
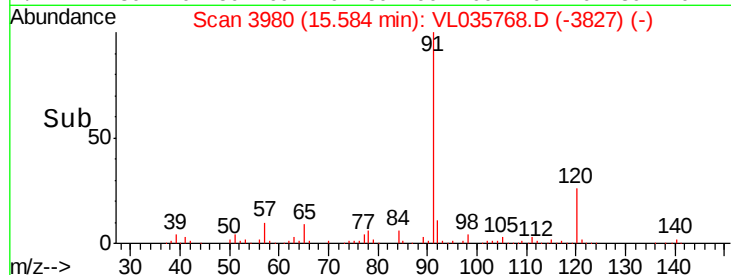
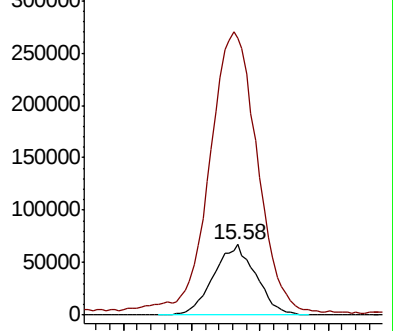
120 100

91 454.5 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.398 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

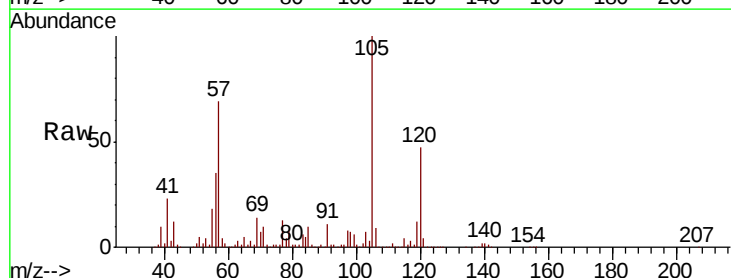
Tgt Ion:119 Resp: 229260

Ion Ratio Lower Upper

119 100

91 90.7 62.4 93.6

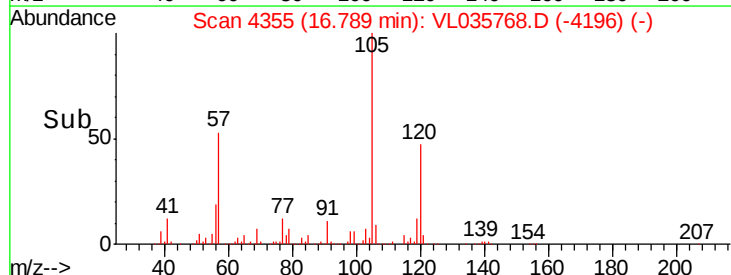
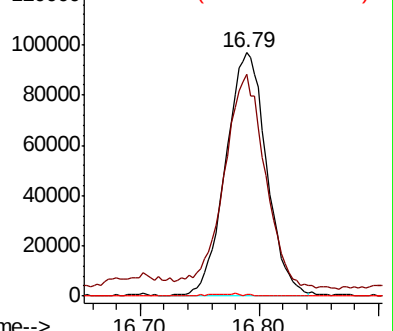
134 0.9 18.2 27.2#

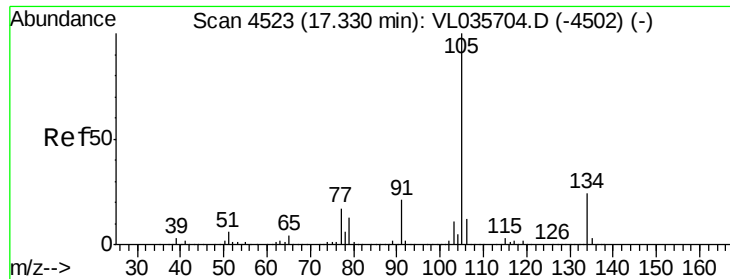


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

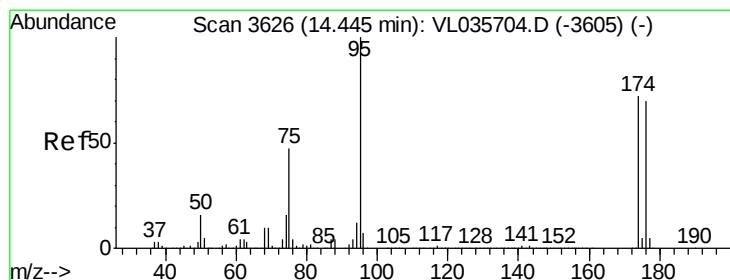
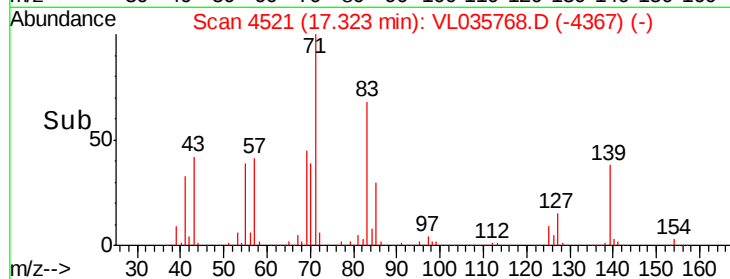
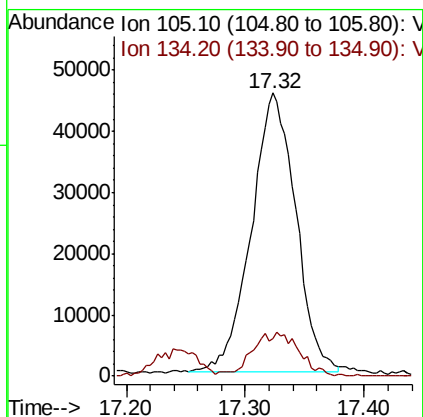
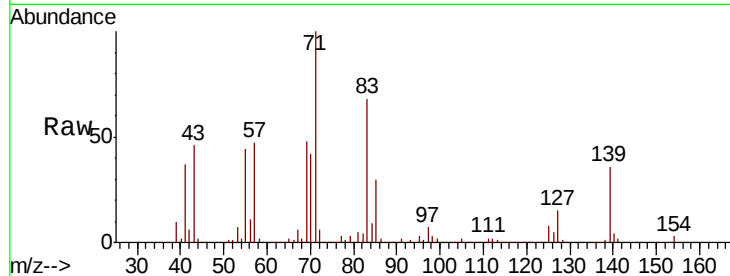




#67  
 sec-Butylbenzene  
 Concen: 0.147 ppbv  
 RT: 17.32 min Scan# 4521  
 Delta R.T. -0.01 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

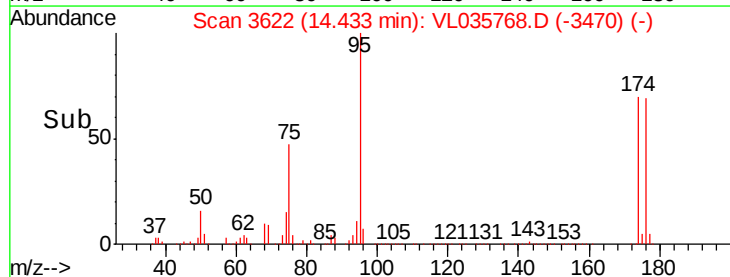
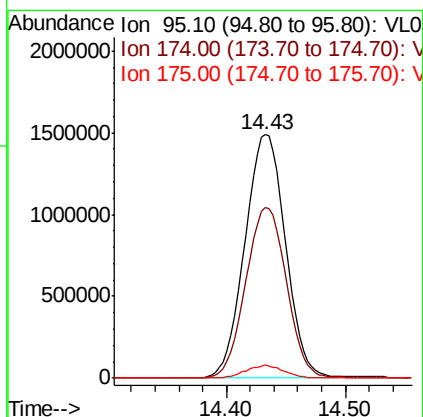
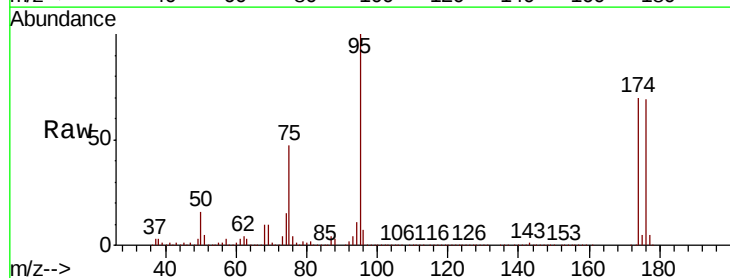
Instrument :  
 MSVOA\_L  
 ClientSampled :  
 5

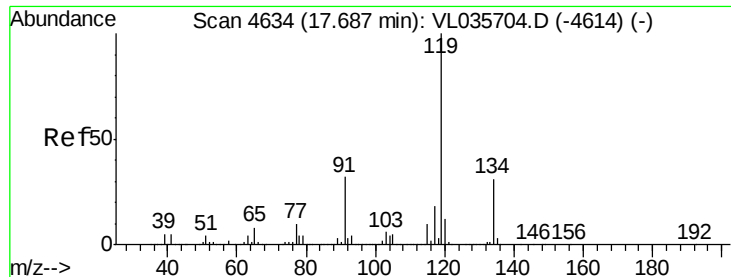
Tot Ion:105 Resp: 117394  
 Ion Ratio Lower Upper  
 105 100  
 134 16.4 17.6 26.4#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.150 ppbv  
 RT: 14.43 min Scan# 3622  
 Delta R.T. -0.01 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

Tgt Ion: 95 Resp: 3506402  
 Ion Ratio Lower Upper  
 95 100  
 174 71.2 59.6 89.4  
 175 5.1 4.2 6.4

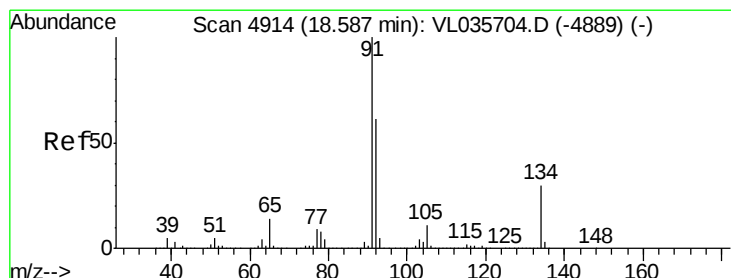
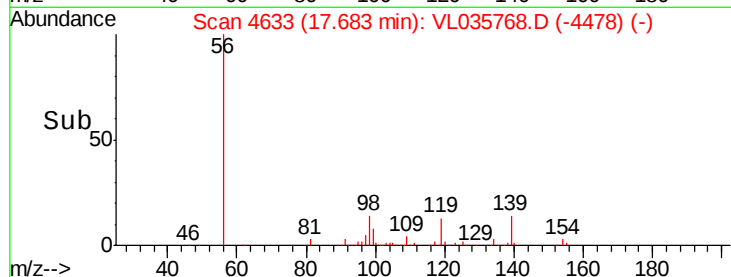
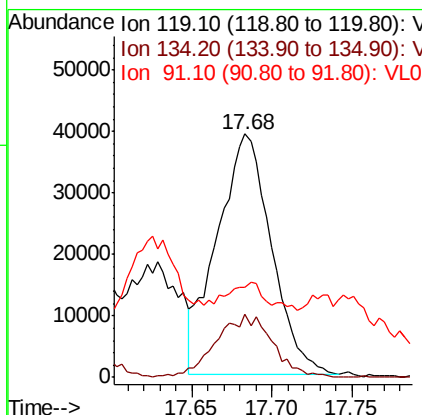
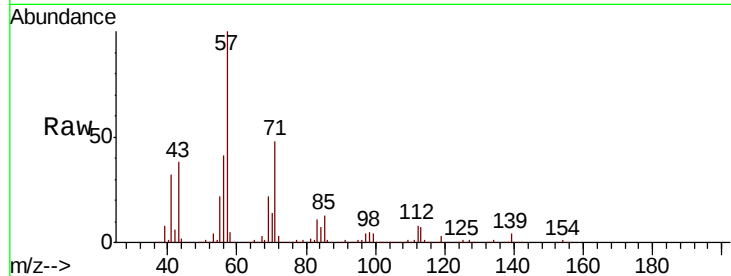




#69  
 p-Isopropyltoluene  
 Concen: 0.141 ppbv  
 RT: 17.68 min Scan# 4633  
 Delta R.T. -0.00 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

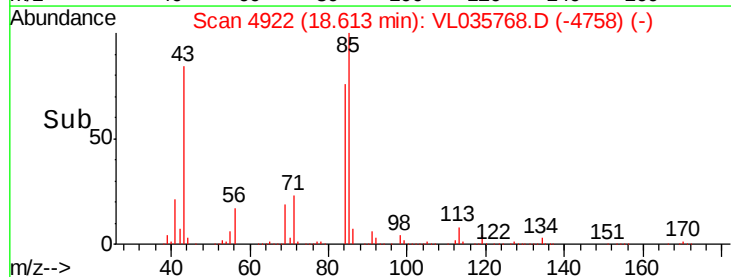
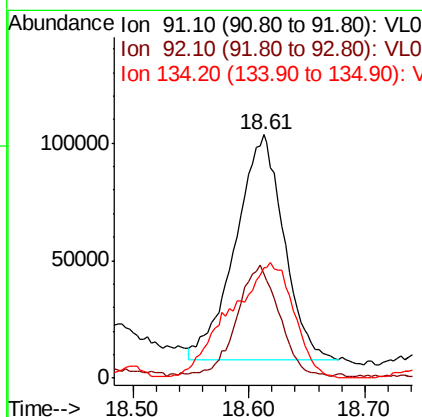
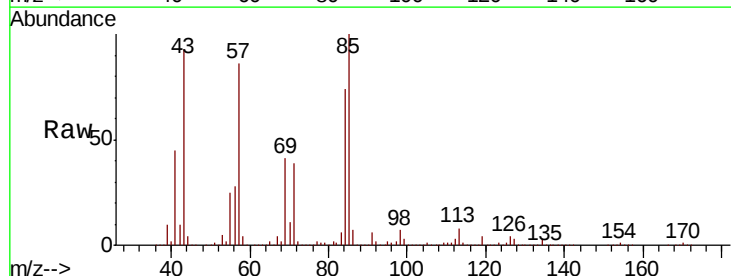
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 5

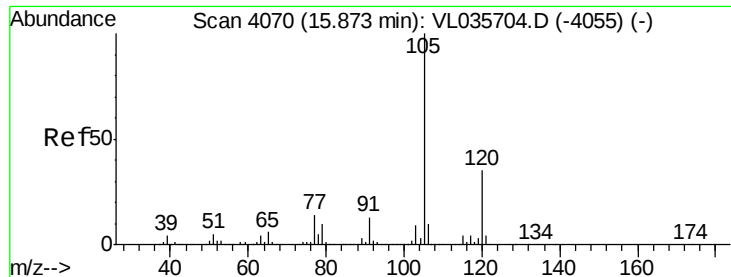
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 119   | Resp: | 91128 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.1  | 23.9  | 35.9  |
| 91       | 22.4  | 23.8  | 35.6# |



#70  
 n-Butylbenzene  
 Concen: 0.413 ppbv  
 RT: 18.61 min Scan# 4922  
 Delta R.T. 0.03 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 275607 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 44.1  | 47.0  | 70.4#  |
| 134      | 68.2  | 21.9  | 32.9#  |





#72

4-Ethyltoluene

Concen: 1.496 ppbv

RT: 15.86 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

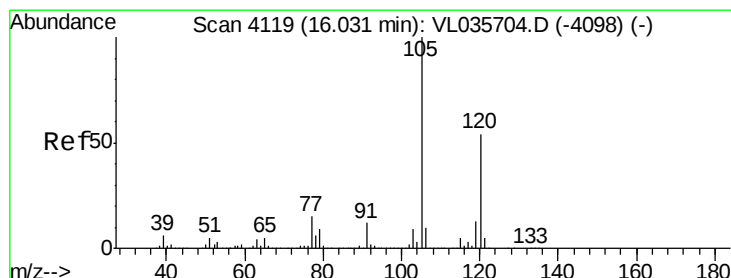
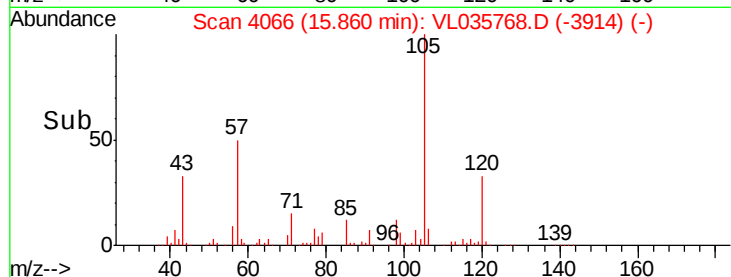
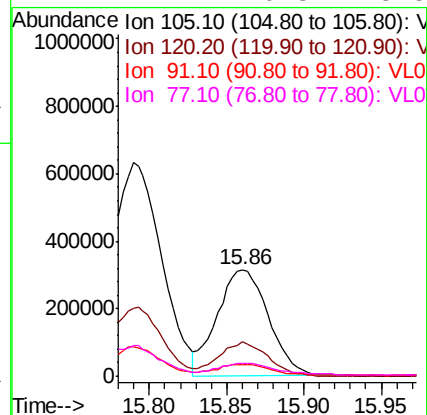
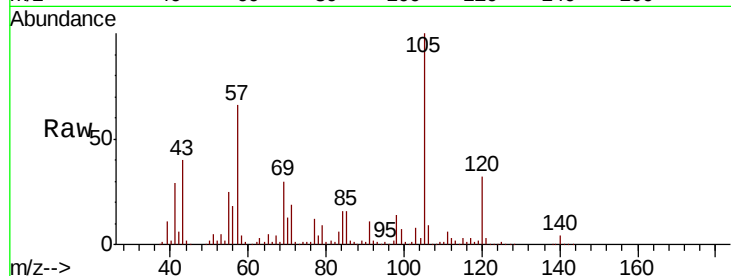
Instrument :

MSVOA\_L

ClientSampleId :

5

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 724503 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 32.1  | 26.5  | 39.7   |
| 91       | 10.6  | 10.2  | 15.2   |
| 77       | 12.1  | 10.3  | 15.5   |



#73

1,3,5-Trimethylbenzene

Concen: 1.230 ppbv

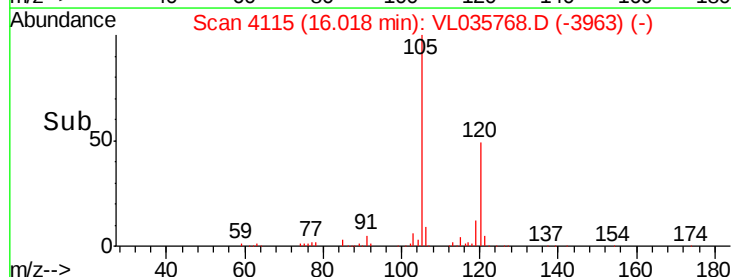
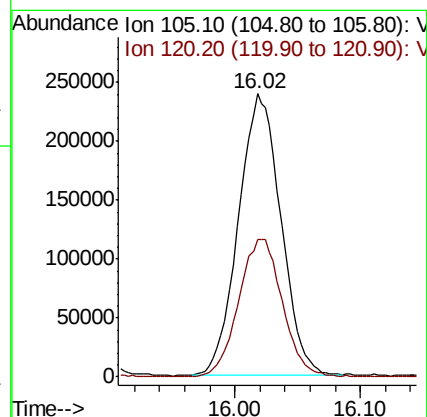
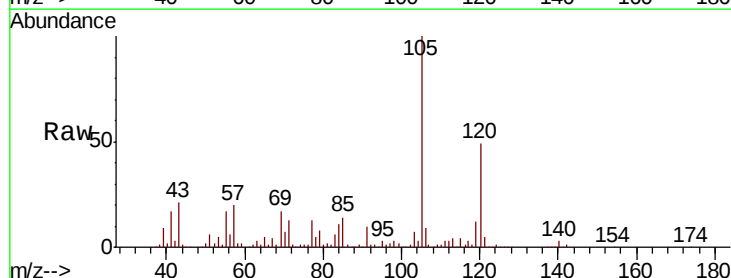
RT: 16.02 min Scan# 4115

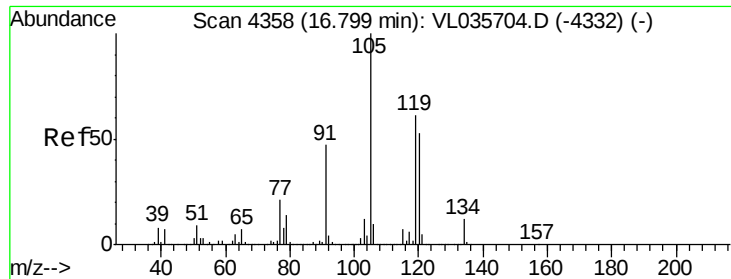
Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 562680 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 48.9  | 43.0  | 64.4   |





#74

1,2,4-Trimethylbenzene

Concen: 3.697 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

Instrument :

MSVOA\_L

ClientSampleId :

5

Tot Ion:105 Resp: 1906803

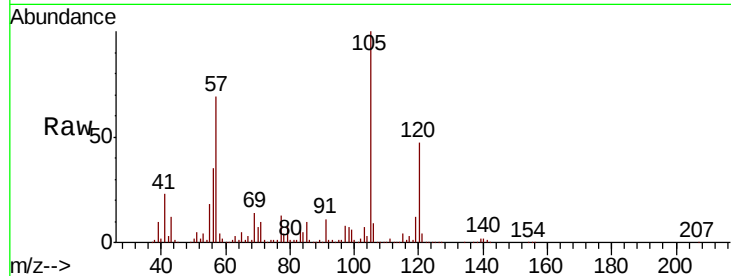
Ion Ratio Lower Upper

105 100

120 47.2 42.5 63.7

91 10.6 37.7 56.5#

77 12.0 16.7 25.1#

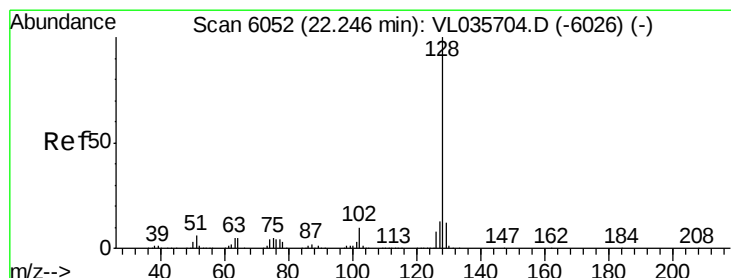
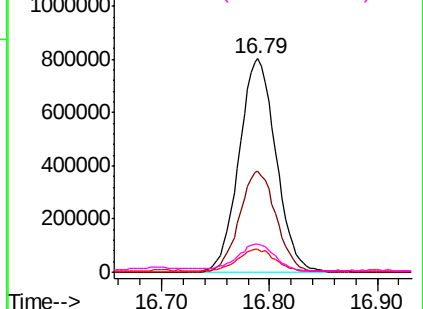
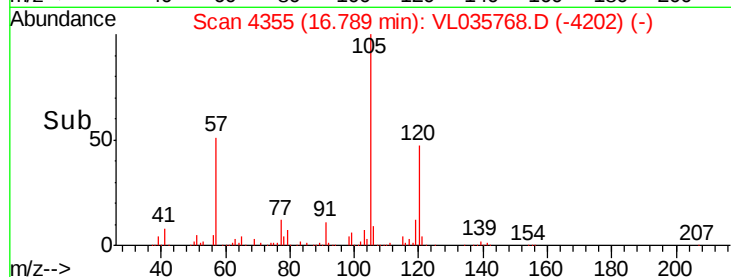


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.198 ppbv

RT: 22.24 min Scan# 6051

Delta R.T. -0.00 min

Lab File: VL035768.D

Acq: 12 Oct 2020 19:17

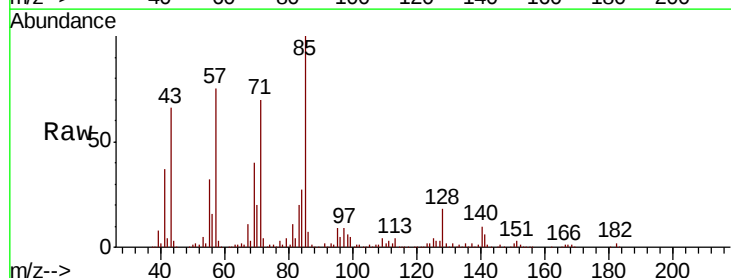
Tgt Ion:128 Resp: 97456

Ion Ratio Lower Upper

128 100

127 8.7 10.6 15.8#

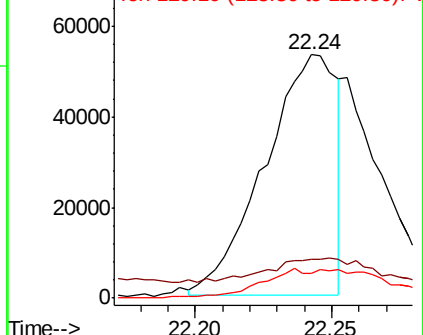
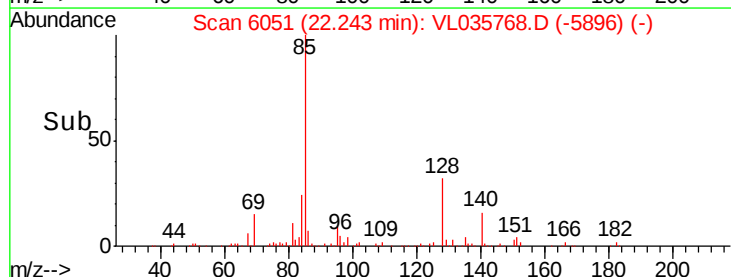
129 9.9 9.4 14.0

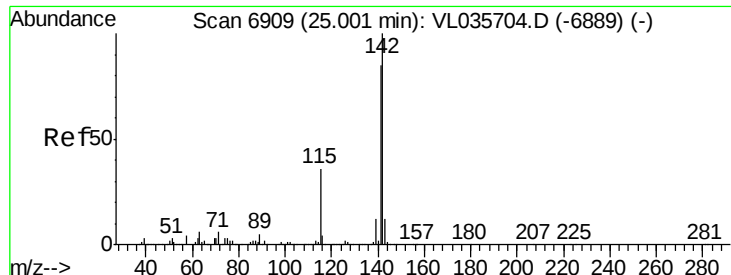


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

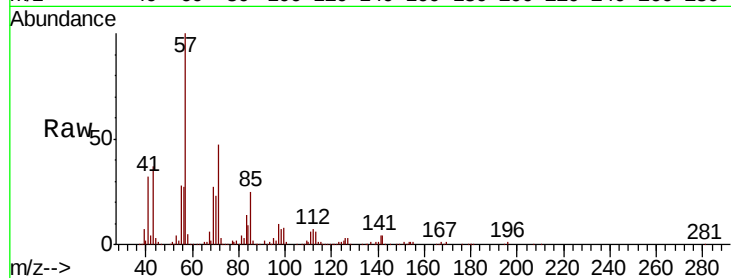




#80  
 Naphthalene, 2-methyl-  
 Concen: 0.098 ppbv  
 RT: 25.32 min Scan# 7008  
 Delta R.T. 0.32 min  
 Lab File: VL035768.D  
 Acq: 12 Oct 2020 19:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 101.9 | 68.2  | 102.4 |
| 115     | 29.5  | 27.8  | 41.6  |



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

