

Data File : VL032733.D  
Acq On : 8 Nov 2018 1:38  
Operator : SY/AP  
Sample : J5823-04  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-03

Quant Time: Nov 08 10:58:51 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101818AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 25 05:15:43 2018  
QLast Update : Thu Oct 25 05:15:43 2018  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1344812  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3407245  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3552100  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2599039  | 9.83     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.30% |

#### Target Compounds

|                                |       |     |          |          |        | Qvalue |
|--------------------------------|-------|-----|----------|----------|--------|--------|
| 3) Chlorodifluoromethane       | 3.02  | 51  | 37810    | 0.360    | ppbv # | 89     |
| 4) Chloromethane               | 3.18  | 50  | 39556    | 0.673    | ppbv   | 96     |
| 9) Propene                     | 3.04  | 41  | 164167   | 3.793    | ppbv   | 90     |
| 10) Heptane                    | 8.26  | 43  | 184981   | 1.109    | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 4.01  | 101 | 44498    | 0.249    | ppbv   | 86     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55  | 101 | 5453     | 0.037    | ppbv # | 17     |
| 13) Ethanol                    | 3.69  | 45  | 15500023 | 1253.006 | ppbv   | 100    |
| 15) Acetone                    | 3.90  | 43  | 2149794  | 17.311   | ppbv   | 90     |
| 16) 1,3-Butadiene              | 3.35  | 39  | 230092   | 5.037    | ppbv # | 14     |
| 17) tert-Butyl alcohol         | 4.40  | 59  | 347597   | 9.517    | ppbv # | 100    |
| 19) Isopropyl Alcohol          | 4.07  | 45  | 3096226  | 35.010   | ppbv # | 96     |
| 20) Methylene Chloride         | 4.42  | 84  | 64471    | 1.023    | ppbv   | 93     |
| 21) Allyl Chloride             | 4.44  | 41  | 47534    | 0.466    | ppbv # | 1      |
| 23) Vinyl Acetate              | 5.15  | 43  | 292386   | 1.329    | ppbv # | 15     |
| 25) Ethyl Acetate              | 5.79  | 43  | 358031   | 1.253    | ppbv # | 92     |
| 26) Hexane                     | 5.79  | 57  | 317544   | 2.348    | ppbv # | 59     |
| 29) Chloroform                 | 5.86  | 83  | 14882    | 0.069    | ppbv   | 89     |
| 30) Cyclohexane                | 7.25  | 84  | 29038    | 0.271    | ppbv # | 1      |
| 34) 2-Butanone                 | 5.34  | 43  | 302144   | 1.654    | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.14  | 117 | 10071    | 0.042    | ppbv # | 66     |
| 36) Benzene                    | 7.01  | 78  | 1065954  | 3.853    | ppbv   | 98     |
| 38) Trichloroethene            | 7.97  | 130 | 4197     | 0.041    | ppbv # | 31     |
| 39) 1,2-Dichloropropane        | 7.30  | 63  | 844791   | 7.907    | ppbv # | 26     |
| 41) Tetrahydrofuran            | 6.15  | 42  | 5439     | 0.053    | ppbv # | 35     |
| 44) 2,2,4-Trimethylpentane     | 8.00  | 57  | 1553022  | 3.288    | ppbv   | 93     |
| 50) 4-Methyl-2-Pentanone       | 8.88  | 43  | 17404    | 0.064    | ppbv # | 38     |
| 51) 2-Hexanone                 | 10.26 | 43  | 10834    | 0.054    | ppbv # | 28     |
| 52) Tetrachloroethene          | 11.38 | 164 | 10334    | 0.107    | ppbv # | 79     |
| 53) Toluene                    | 9.96  | 91  | 7672276  | 24.190   | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.87 | 91  | 1042748  | 2.527    | ppbv   | 97     |
| 59) m/p-Xylene                 | 13.13 | 91  | 3256599  | 8.862    | ppbv   | 99     |
| 60) o-Xylene                   | 13.86 | 91  | 1189519  | 3.356    | ppbv   | 99     |
| 61) Styrene                    | 13.70 | 104 | 78170    | 0.329    | ppbv   | 97     |
| 62) Isopropylbenzene           | 14.84 | 105 | 23092    | 0.046    | ppbv # | 54     |
| 64) n-propylbenzene            | 15.74 | 120 | 34005    | 0.273    | ppbv   | 90     |
| 65) tert-Butylbenzene          | 16.93 | 119 | 87339    | 0.204    | ppbv # | 48     |
| 66) Benzyl Chloride            | 17.16 | 91  | 8801     | 0.040    | ppbv # | 1      |
| 67) sec-Butylbenzene           | 17.15 | 105 | 202604   | 0.333    | ppbv   | 96     |
| 69) p-Isopropyltoluene         | 17.83 | 119 | 16311    | 0.034    | ppbv # | 69     |
| 71) 2-Chlorotoluene            | 15.73 | 91  | 170391   | 0.478    | ppbv # | 45     |
| 72) 4-Ethyltoluene             | 16.01 | 105 | 284763   | 0.754    | ppbv   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL110718\  
Quantitation Report (Not Reviewed)

Data File : VL032733.D  
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Instrument :  
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ClientSampleId :  
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Quant Time: Nov 08 10:58:51 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL101818AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 25 05:15:43 2018  
QLast Update : Thu Oct 25 05:15:43 2018  
Response via : Initial Calibration

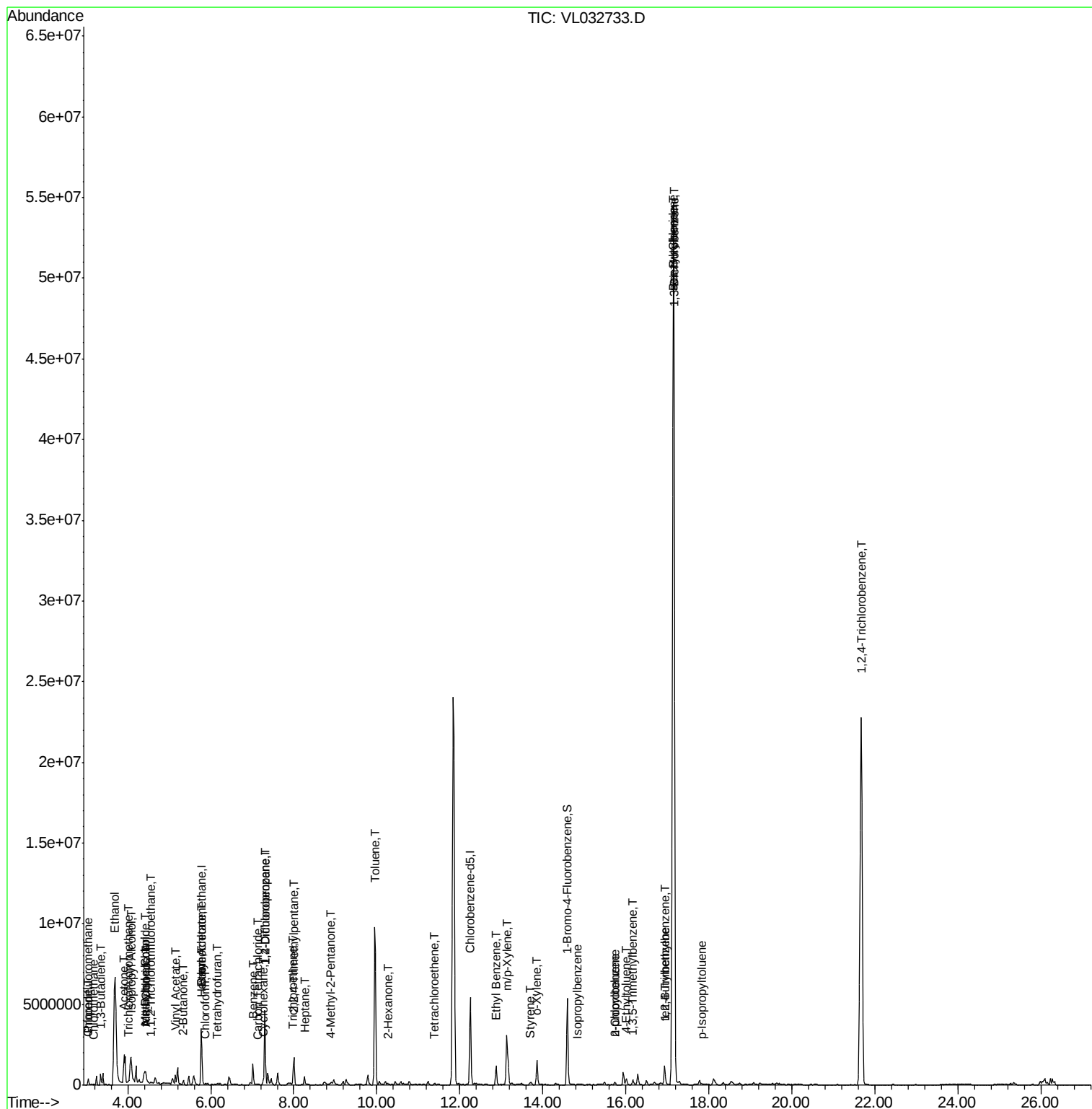
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 73) 1,3,5-Trimethylbenzene | 16.17 | 105  | 211603   | 0.575 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene | 16.94 | 105  | 862314   | 2.196 | ppbv # | 78       |
| 75) 1,3-Dichlorobenzene    | 17.17 | 146  | 57153    | 0.253 | ppbv # | 23       |
| 81) 1,2,4-Trichlorobenzene | 21.67 | 180  | 71003    | 0.562 | ppbv # | 20       |

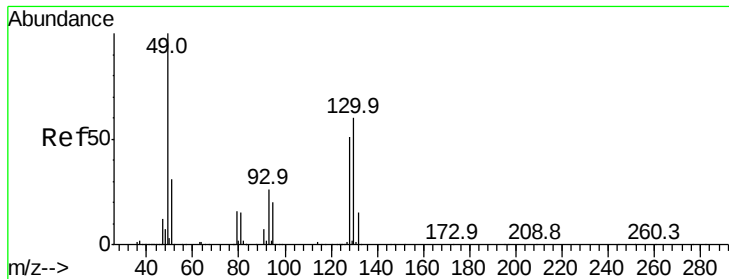
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.01 min

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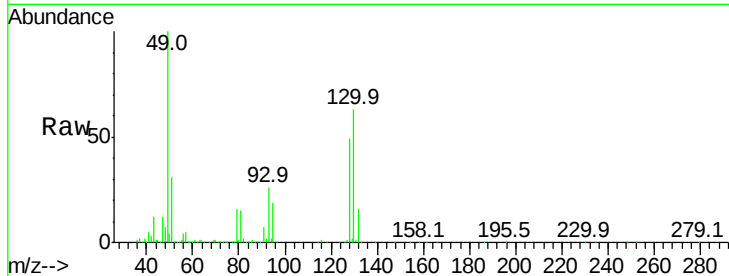
Tgt Ion: 49 Resp: 1344812

Ion Ratio Lower Upper

49 100

128 50.5 22.3 66.8

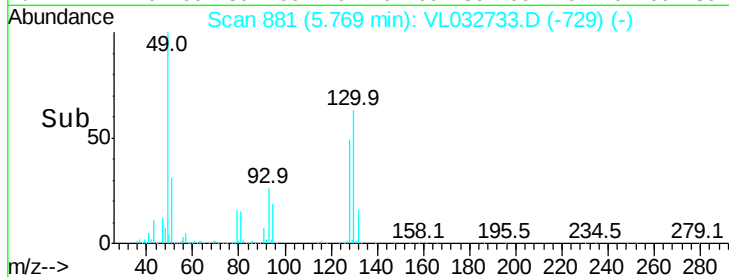
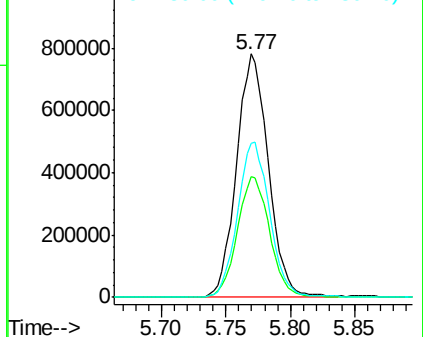
130 64.7 28.4 85.3



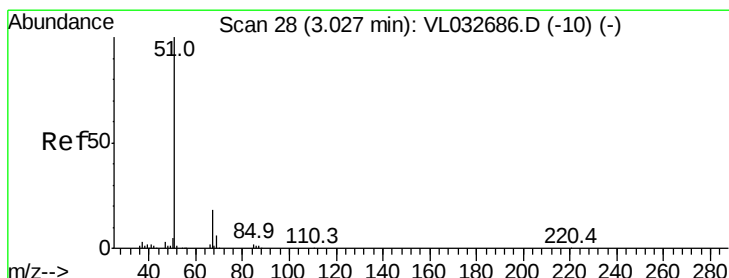
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Scan 881 (5.769 min): VL032733.D (-729) (-)



#3

Chlorodifluoromethane

Concen: 0.360 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032733.D

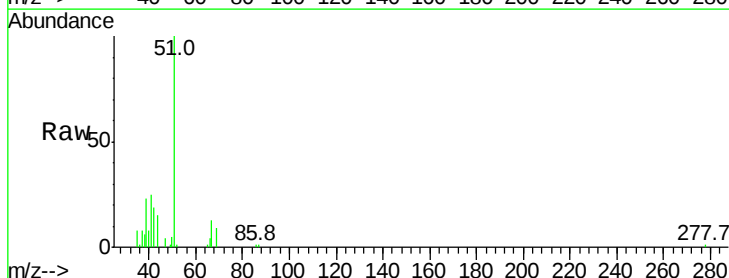
Acq: 8 Nov 2018 1:38

Tgt Ion: 51 Resp: 37810

Ion Ratio Lower Upper

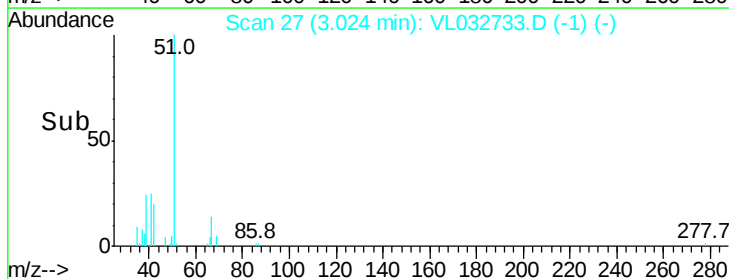
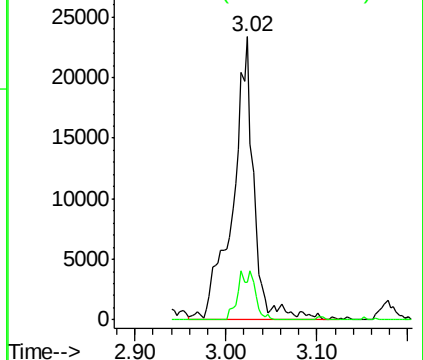
51 100

67 13.8 15.2 22.8#

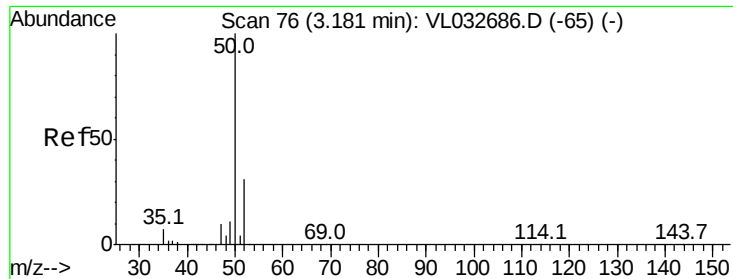


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Scan 27 (3.024 min): VL032733.D (-1) (-)



#4

Chloromethane

Concen: 0.673 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

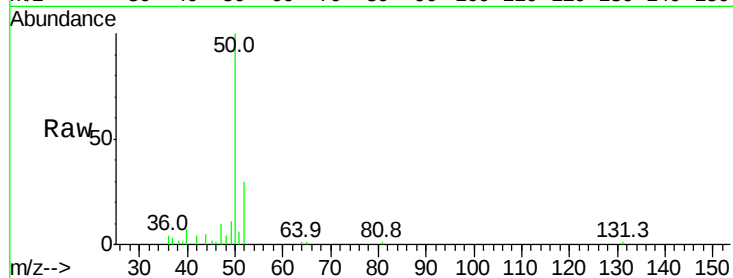
SV-03

Tgt Ion: 50 Resp: 39556

Ion Ratio Lower Upper

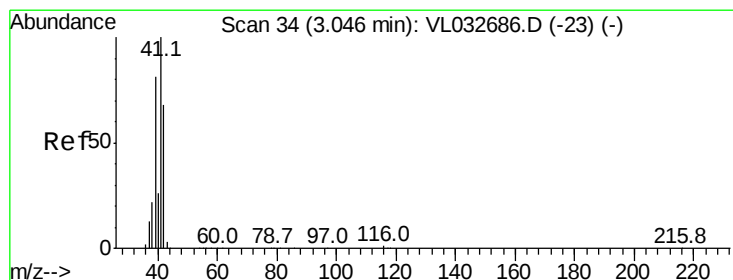
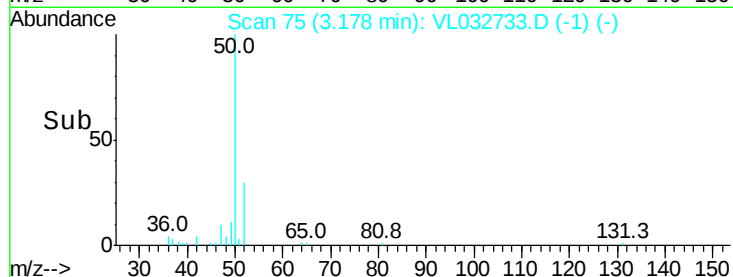
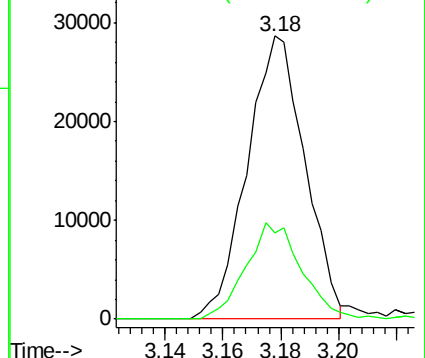
50 100

52 30.3 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 3.793 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032733.D

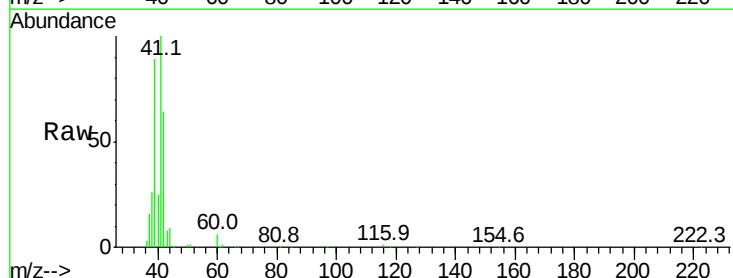
Acq: 8 Nov 2018 1:38

Tgt Ion: 41 Resp: 164167

Ion Ratio Lower Upper

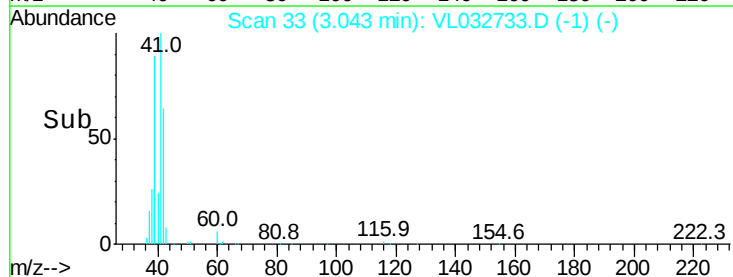
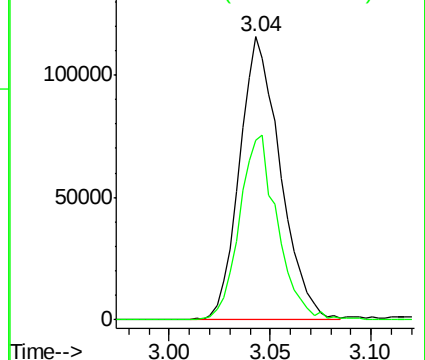
41 100

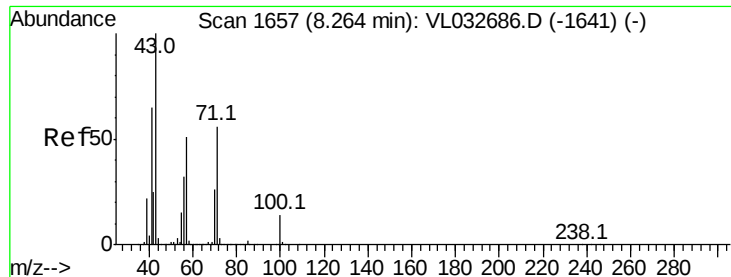
42 61.2 55.4 83.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.109 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

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ClientSampleId :

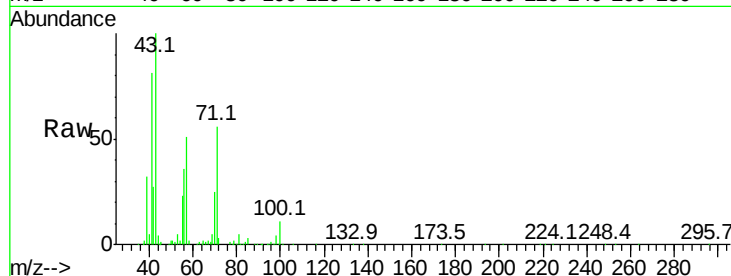
SV-03

Tgt Ion: 43 Resp: 184981

Ion Ratio Lower Upper

43 100

57 53.4 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.26

100000

80000

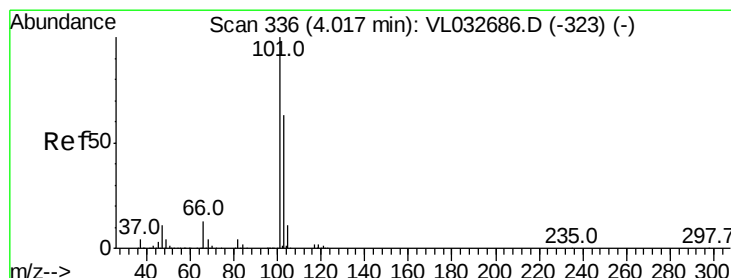
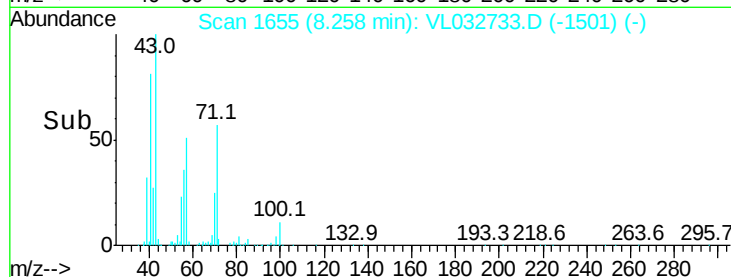
60000

40000

20000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.249 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.01 min

Lab File: VL032733.D

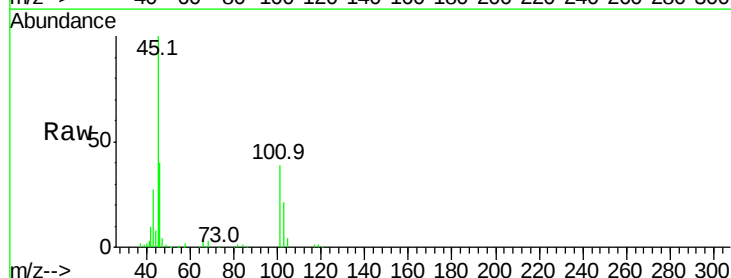
Acq: 8 Nov 2018 1:38

Tgt Ion: 101 Resp: 44498

Ion Ratio Lower Upper

101 100

103 53.1 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.01

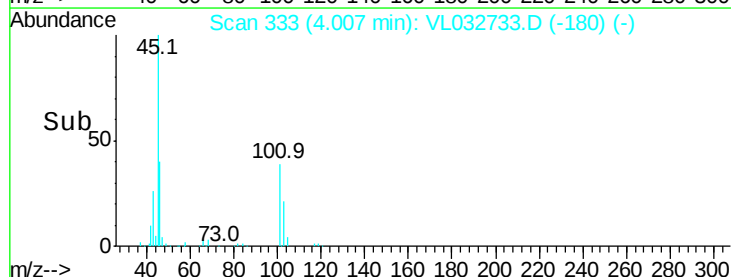
30000

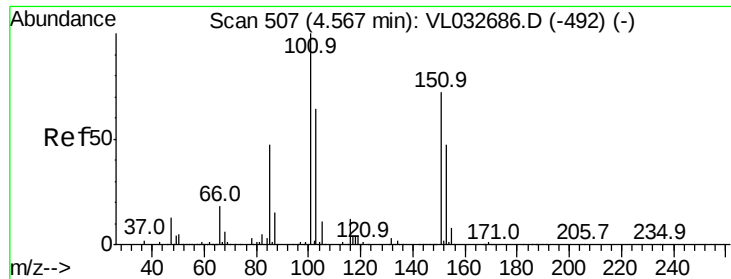
20000

10000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

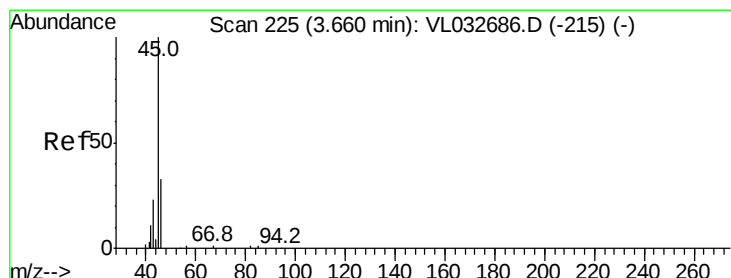
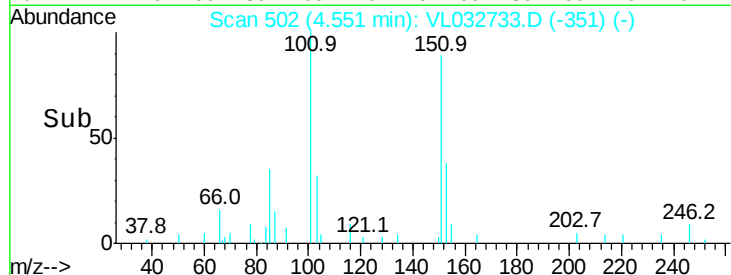
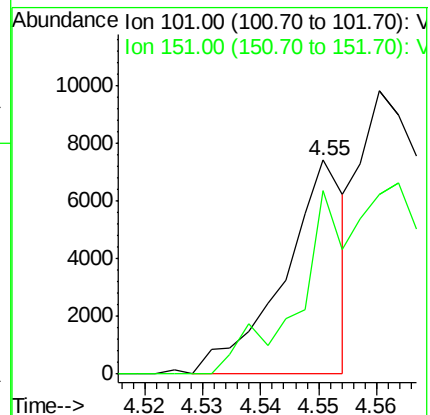
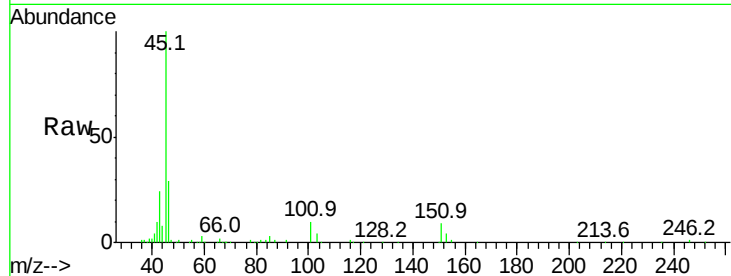
SV-03

Tgt Ion:101 Resp: 5453

Ion Ratio Lower Upper

101 100

151 0.0 52.3 78.5#



#13

Ethanol

Concen: 1253.006 ppbv

RT: 3.69 min Scan# 235

Delta R.T. 0.03 min

Lab File: VL032733.D

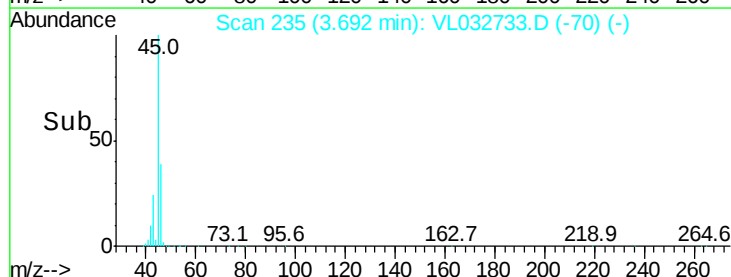
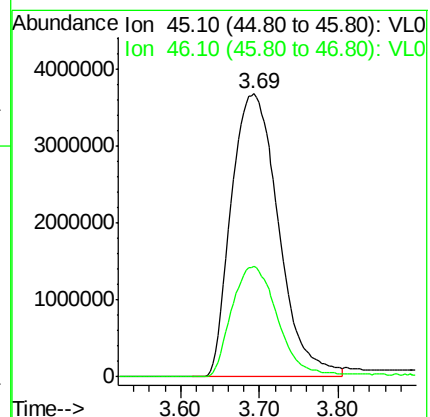
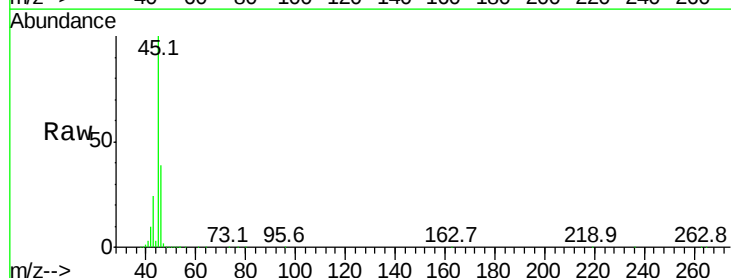
Acq: 8 Nov 2018 1:38

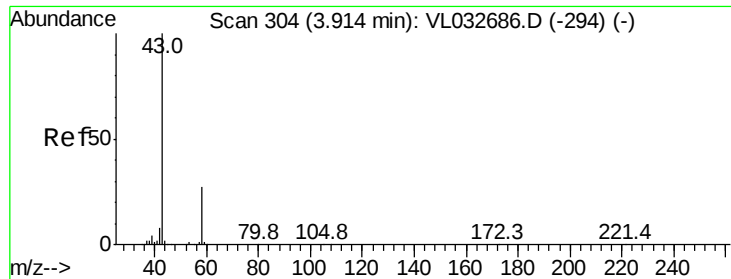
Tgt Ion: 45 Resp:15500023

Ion Ratio Lower Upper

45 100

46 38.7 15.4 61.8

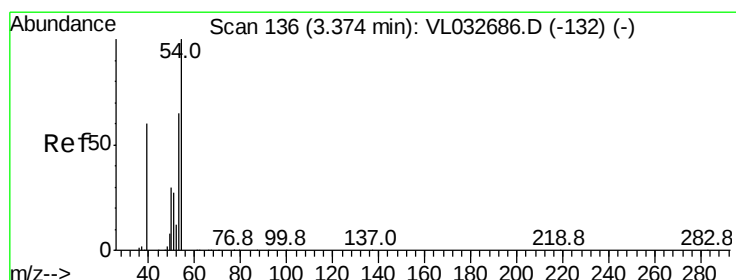
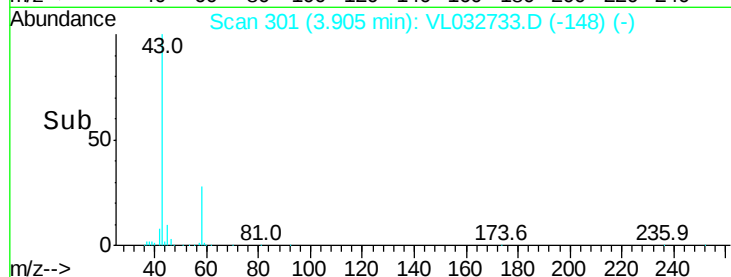
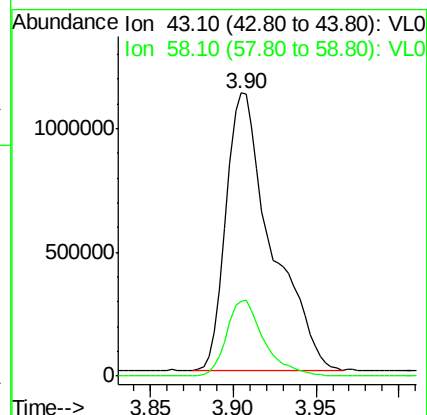
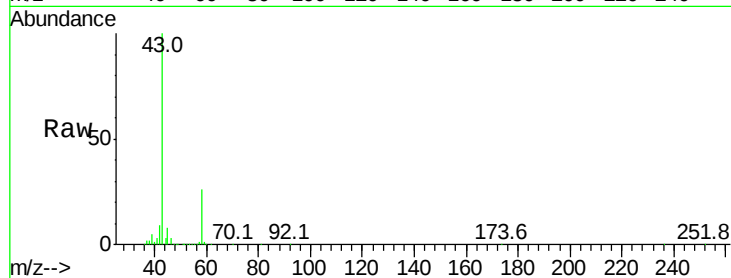




#15  
Acetone  
Concen: 17.311 ppbv  
RT: 3.90 min Scan# 301  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

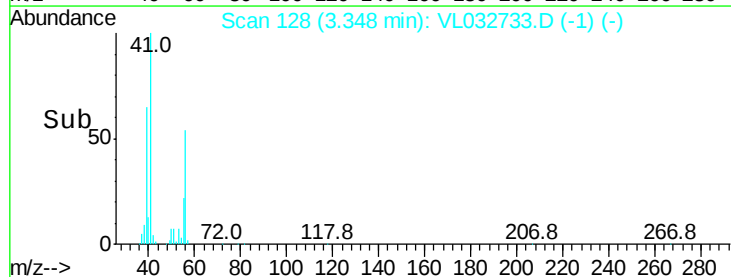
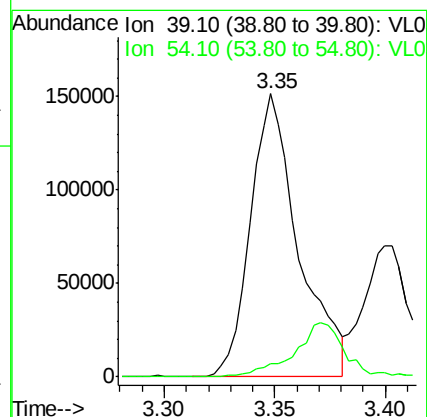
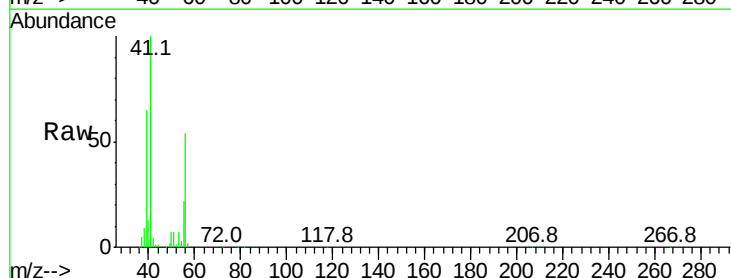
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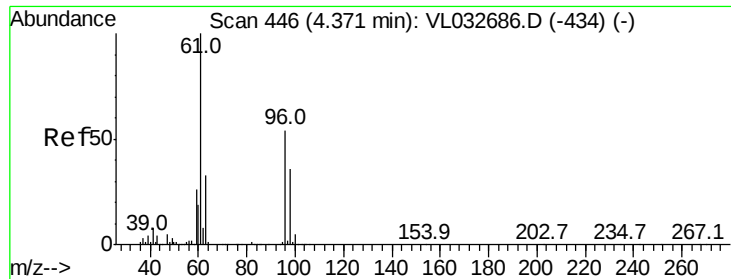
Tgt Ion: 43 Resp: 2149794  
Ion Ratio Lower Upper  
43 100  
58 22.5 22.1 33.1



#16  
1,3-Butadiene  
Concen: 5.037 ppbv  
RT: 3.35 min Scan# 128  
Delta R.T. -0.03 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 39 Resp: 230092  
Ion Ratio Lower Upper  
39 100  
54 20.4 90.4 135.6#



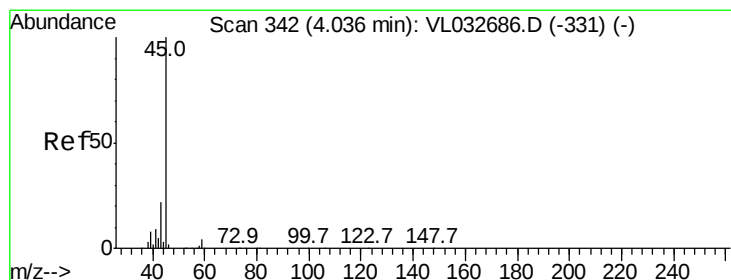
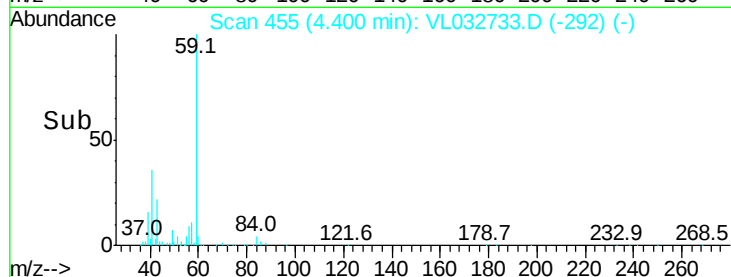
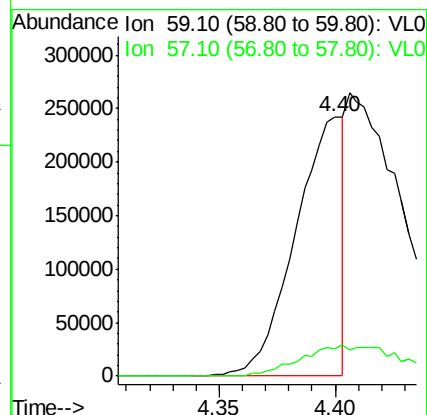
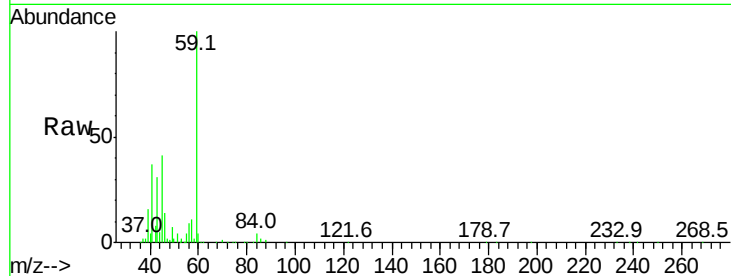


#17

tert-Butyl alcohol  
Concen: 9.517 ppbv  
RT: 4.40 min Scan# 455  
Delta R.T. 0.03 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Instrument :  
MSVOA\_L  
ClientSampled :  
SV-03

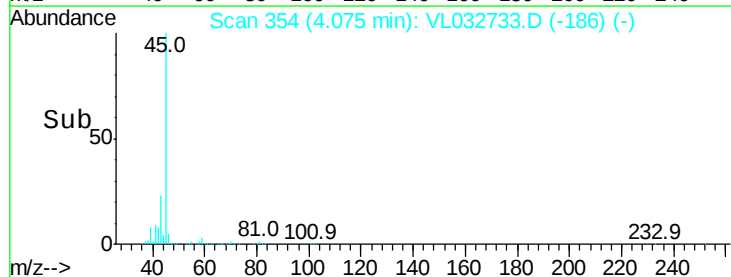
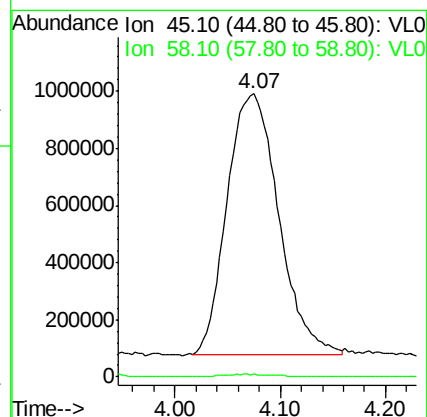
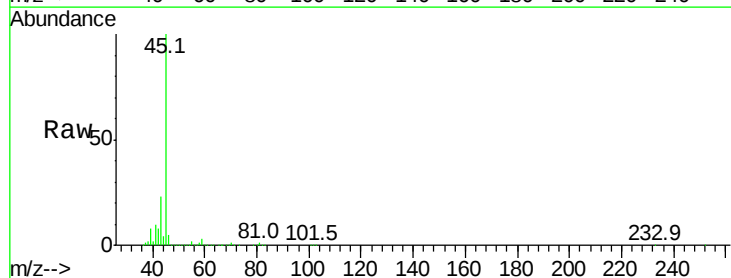
Tgt Ion: 59 Resp: 347597  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0

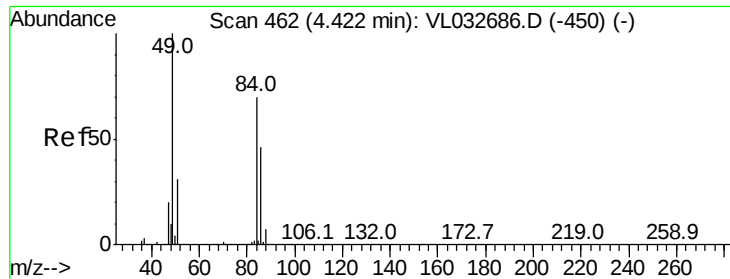


#19

Isopropyl Alcohol  
Concen: 35.010 ppbv  
RT: 4.07 min Scan# 354  
Delta R.T. 0.04 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 45 Resp: 3096226  
Ion Ratio Lower Upper  
45 100  
58 1.1 2.0 3.0#

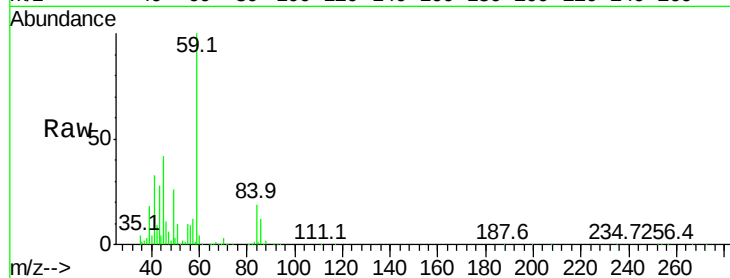




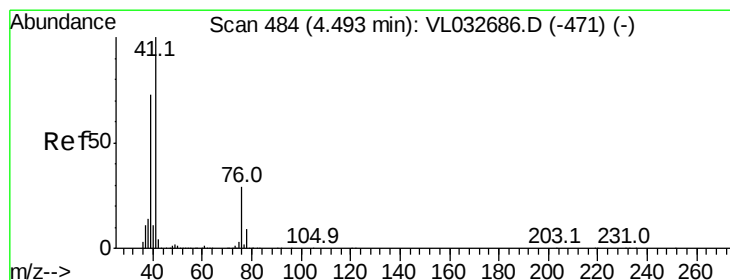
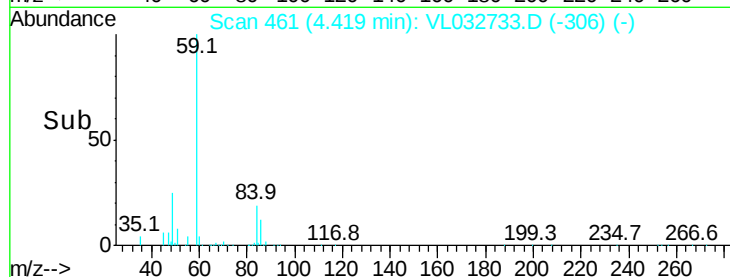
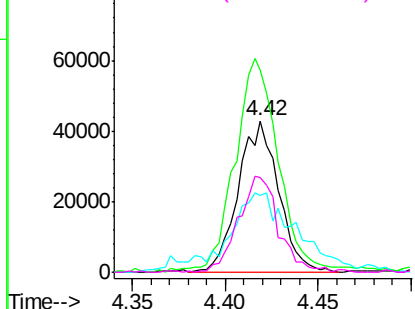
#20  
Methylene Chloride  
Concen: 1.023 ppbv  
RT: 4.42 min Scan# 461  
Delta R.T. -0.00 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-03

Tgt Ion: 84 Resp: 64471  
Ion Ratio Lower Upper  
84 100  
49 130.7 113.5 170.3  
51 46.2 34.8 52.2  
86 61.9 47.9 71.9

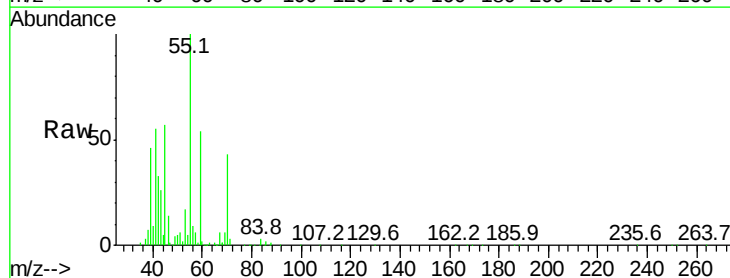


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

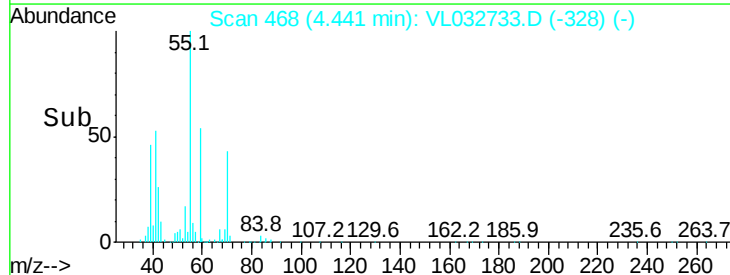
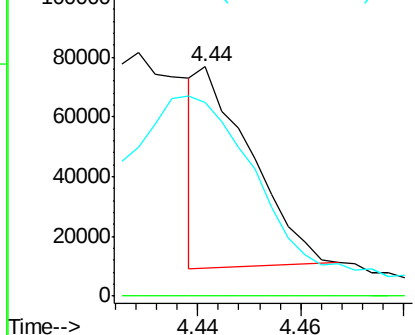


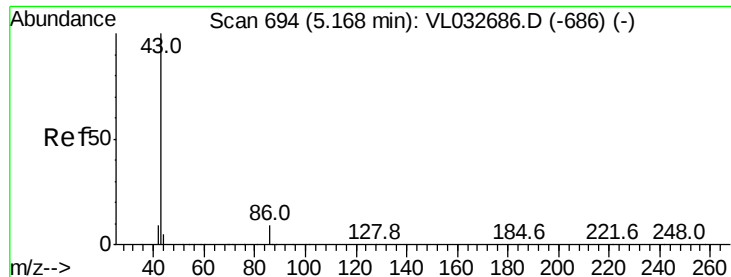
#21  
Allyl Chloride  
Concen: 0.466 ppbv  
RT: 4.44 min Scan# 468  
Delta R.T. -0.05 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 41 Resp: 47534  
Ion Ratio Lower Upper  
41 100  
76 0.0 24.3 36.5#  
39 519.4 60.3 90.5#



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: 1.329 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.02 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

Tgt Ion: 43 Resp: 292386

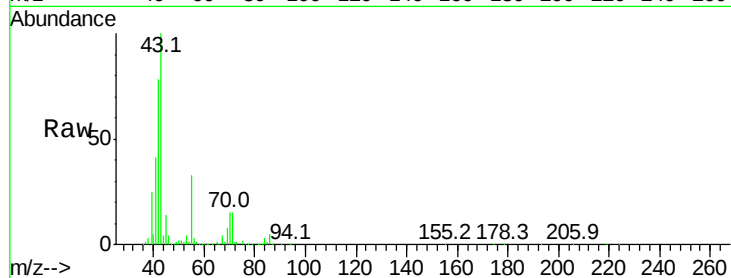
Ion Ratio Lower Upper

43 100

86 5.0 6.1 9.1#

42 78.7 7.4 11.2#

44 1.9 4.2 6.2#

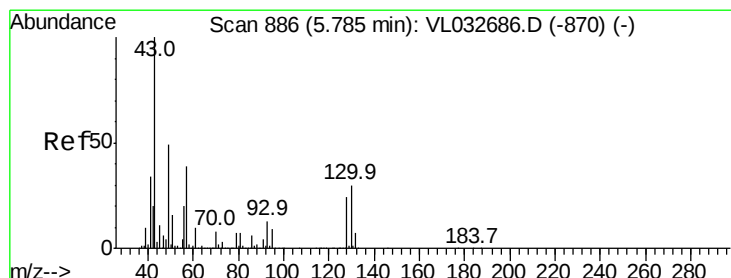
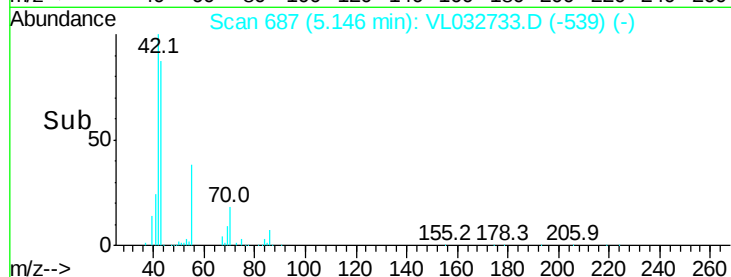
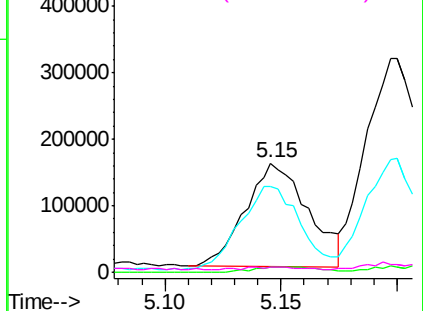


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 1.253 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Tgt Ion: 43 Resp: 358031

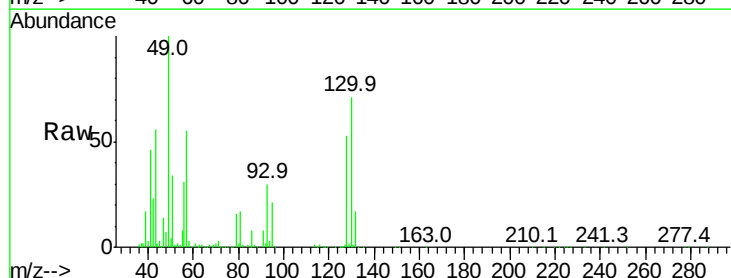
Ion Ratio Lower Upper

43 100

45 7.5 8.0 12.0#

61 5.4 8.0 12.0#

70 5.5 5.9 8.9#

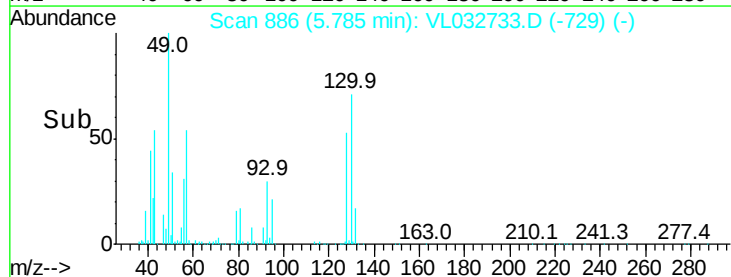
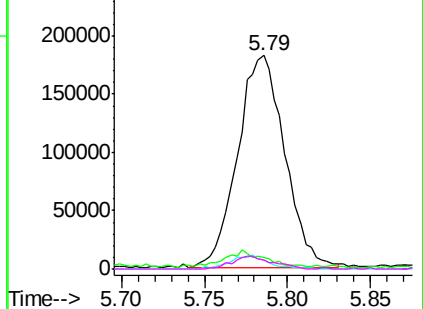


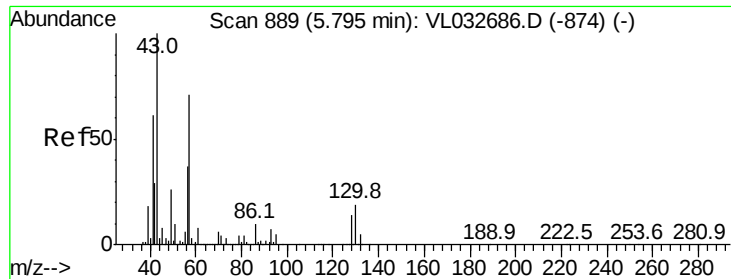
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

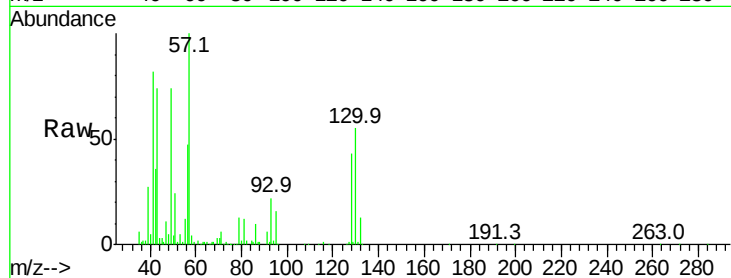




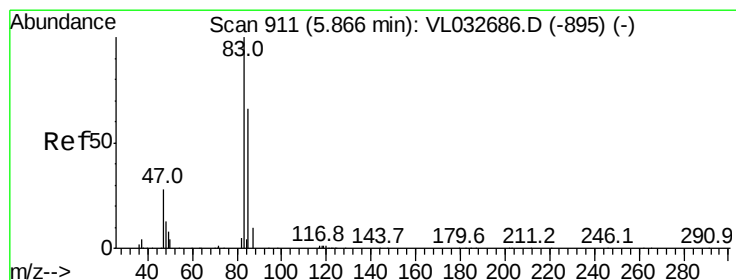
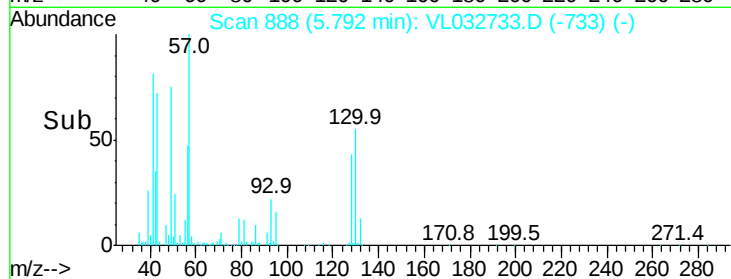
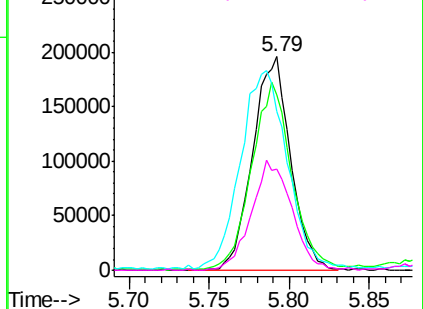
#26  
Hexane  
Concen: 2.348 ppbv  
RT: 5.79 min Scan# 888  
Delta R.T. -0.00 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-03

Tgt Ion: 57 Resp: 317544  
Ion Ratio Lower Upper  
57 100  
41 93.0 67.4 101.0  
43 114.5 171.9 257.9#  
56 55.0 42.6 63.8

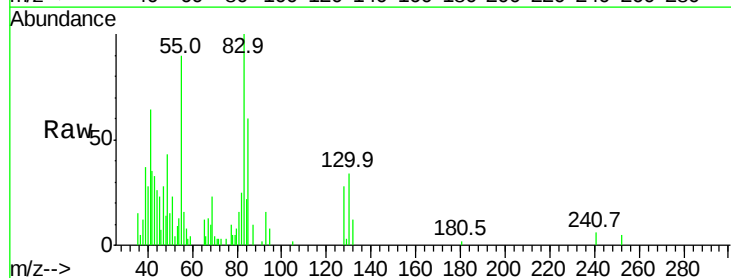


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

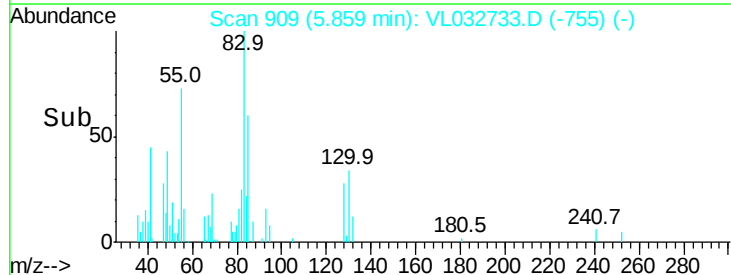
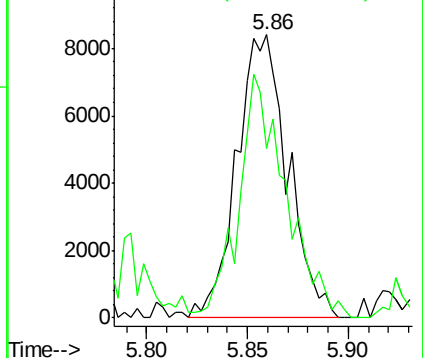


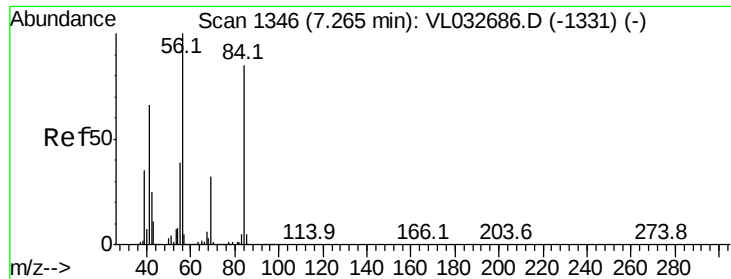
#29  
Chloroform  
Concen: 0.069 ppbv  
RT: 5.86 min Scan# 909  
Delta R.T. -0.00 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 83 Resp: 14882  
Ion Ratio Lower Upper  
83 100  
85 57.9 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0

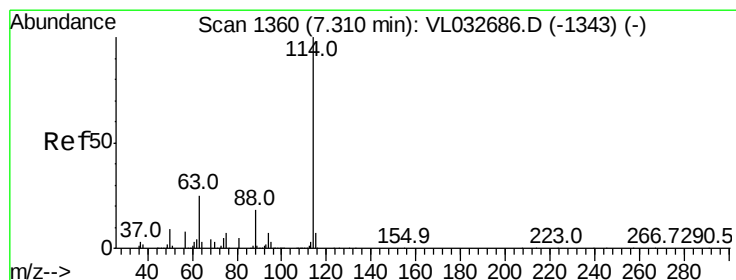
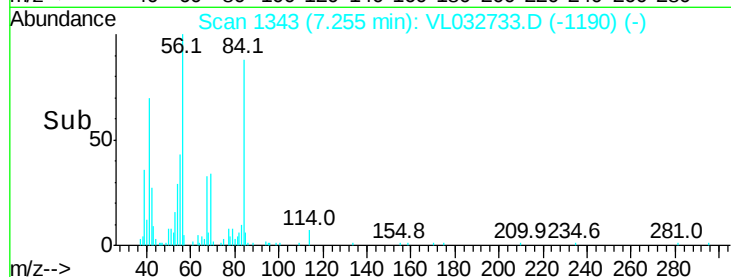
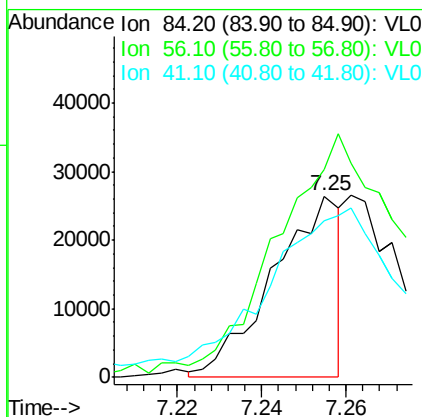
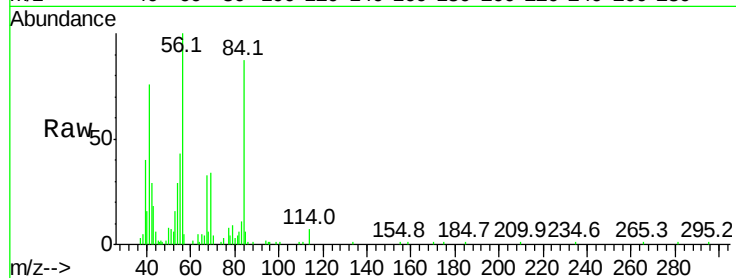




#30  
Cyclohexane  
Concen: 0.271 ppbv  
RT: 7.25 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

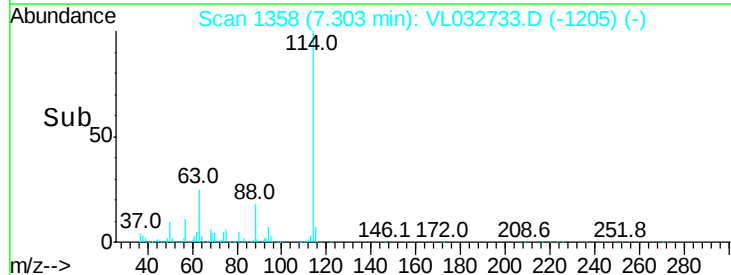
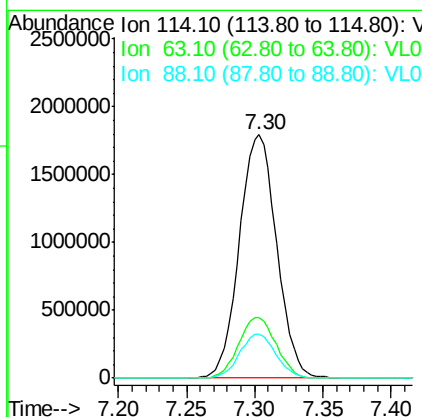
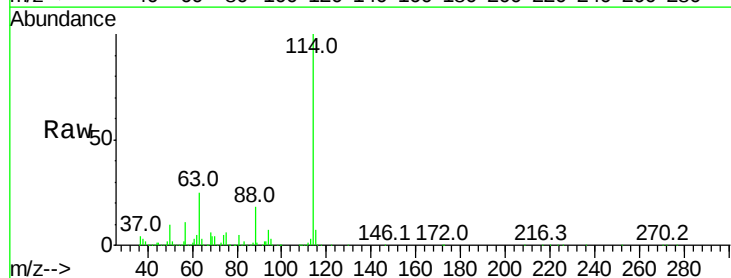
Instrument :  
MSVOA\_L  
ClientSampled :  
SV-03

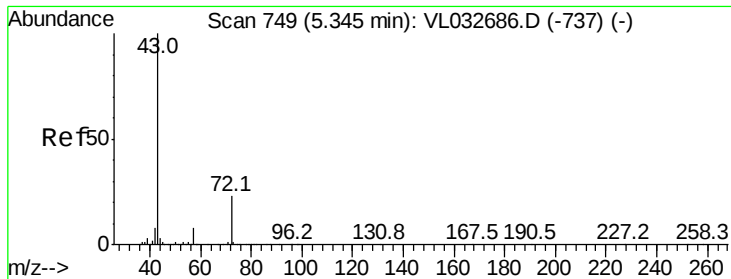
Tgt Ion: 84 Resp: 29038  
Ion Ratio Lower Upper  
84 100  
56 0.0 108.3 162.5#  
41 0.0 64.8 97.2#



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.30 min Scan# 1358  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 114 Resp: 3407245  
Ion Ratio Lower Upper  
114 100  
63 25.1 21.7 32.5  
88 17.8 14.9 22.3

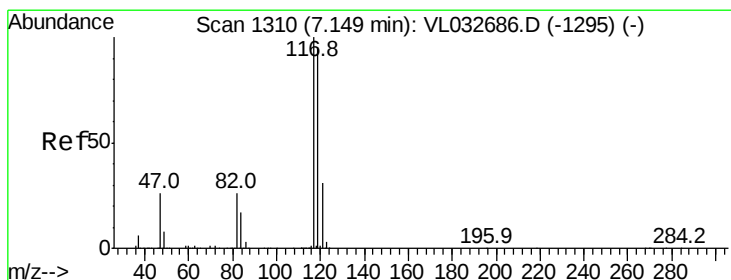
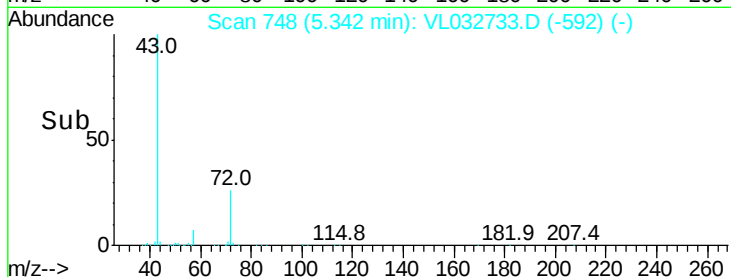
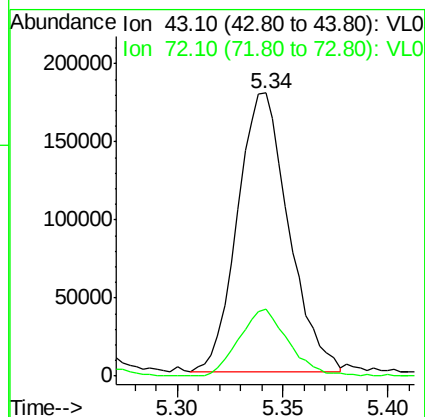
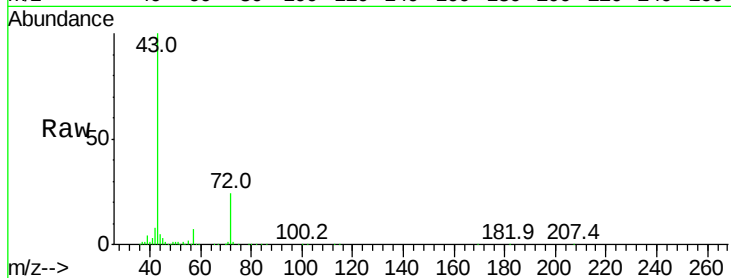




#34  
2-Butanone  
Concen: 1.654 ppbv  
RT: 5.34 min Scan# 748  
Delta R.T. 0.00 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

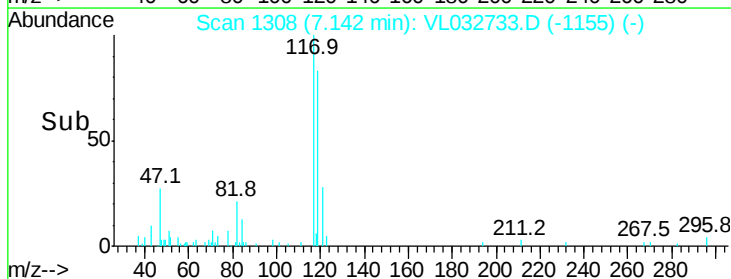
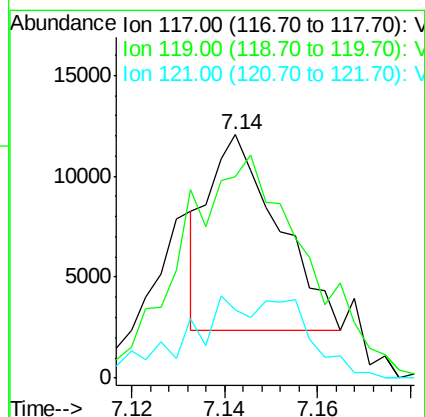
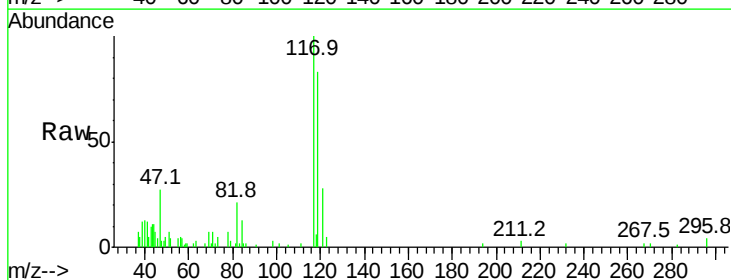
Instrument :  
MSVOA\_L  
ClientSampled :  
SV-03

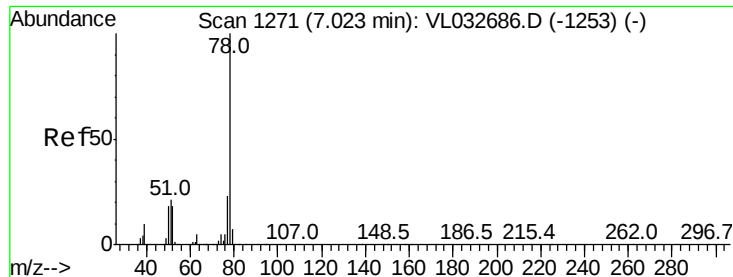
Tgt Ion: 43 Resp: 302144  
Ion Ratio Lower Upper  
43 100  
72 23.4 18.6 27.8



#35  
Carbon Tetrachloride  
Concen: 0.042 ppbv  
RT: 7.14 min Scan# 1308  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 117 Resp: 10071  
Ion Ratio Lower Upper  
117 100  
119 54.8 75.7 113.5#  
121 23.9 24.7 37.1#





#36

Benzene

Concen: 3.853 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

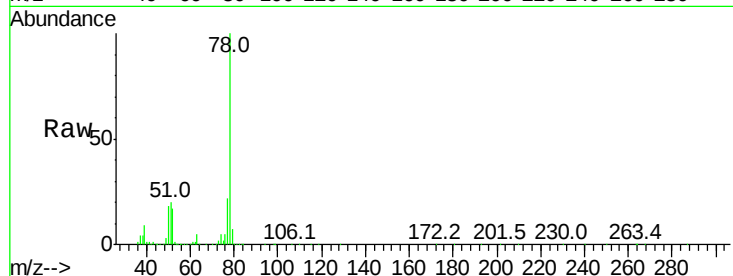
Tgt Ion: 78 Resp: 1065954

Ion Ratio Lower Upper

78 100

77 21.7 18.1 27.1

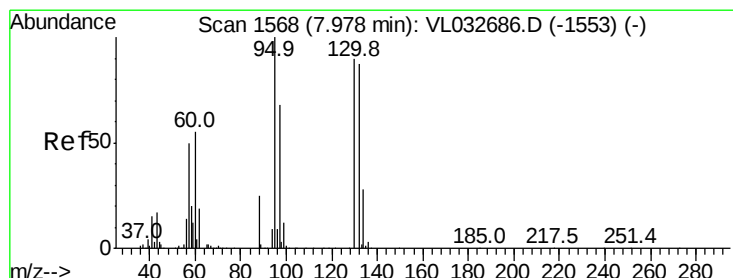
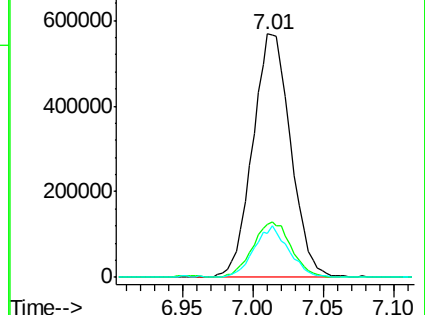
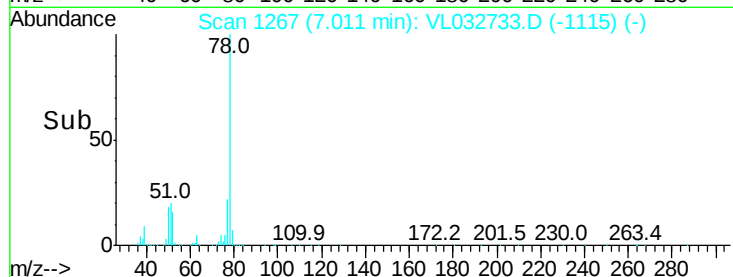
50 17.8 15.1 22.7



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



#38

Trichloroethene

Concen: 0.041 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Tgt Ion: 130 Resp: 4197

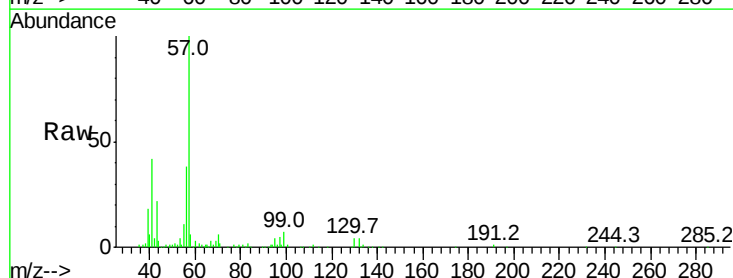
Ion Ratio Lower Upper

130 100

95 10.8 93.4 140.0#

132 86.1 76.5 114.7

97 161.3 60.2 90.2#

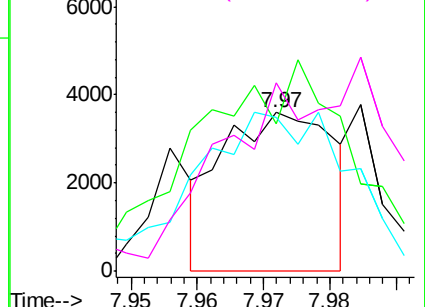
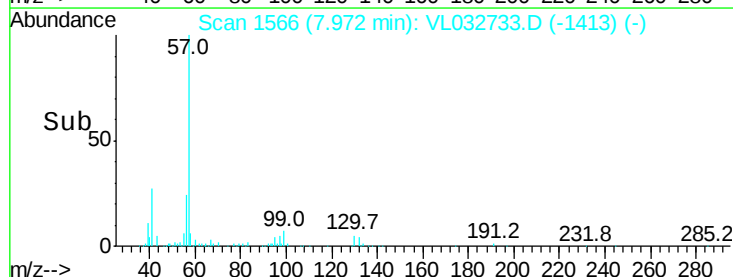


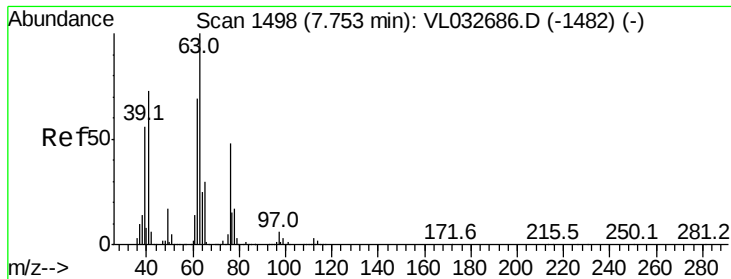
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.907 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.45 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

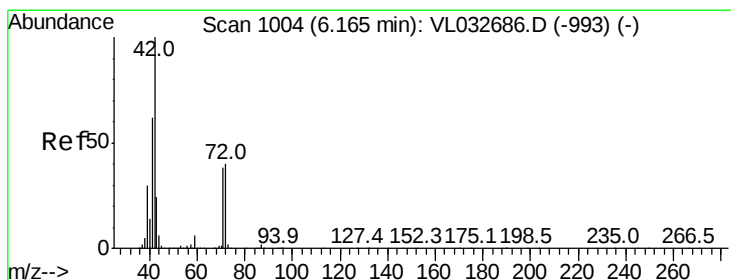
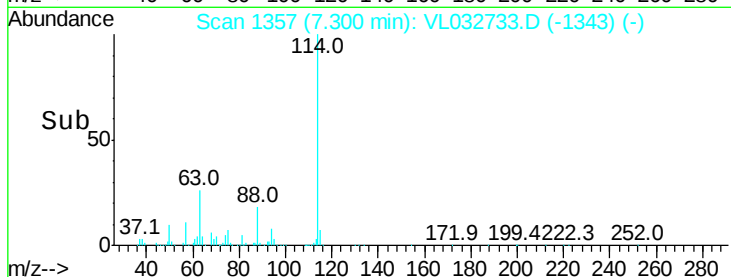
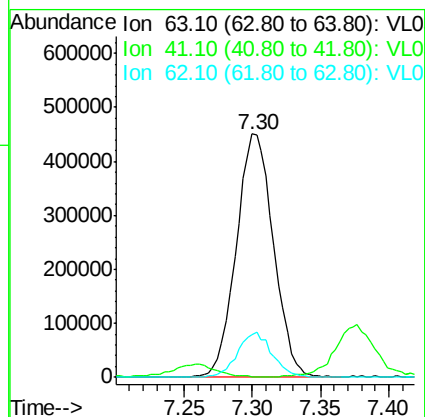
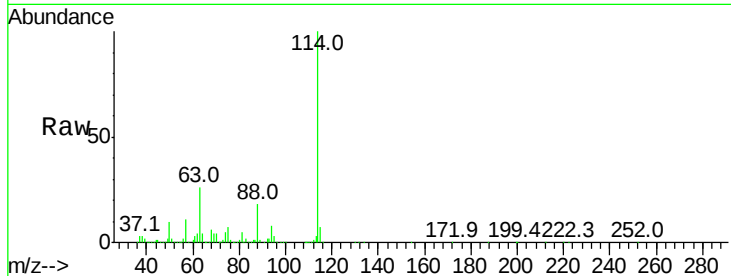
Tgt Ion: 63 Resp: 844791

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

62 17.4 54.4 81.6#



#41

Tetrahydrofuran

Concen: 0.053 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

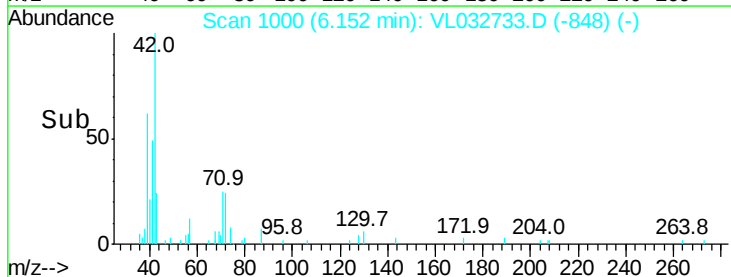
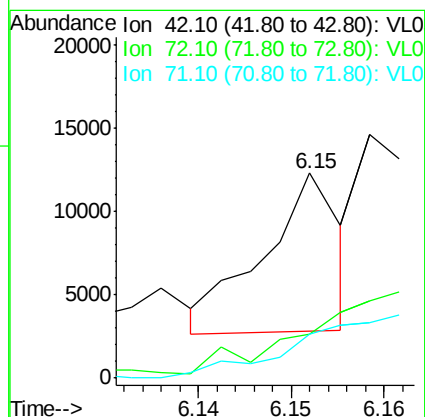
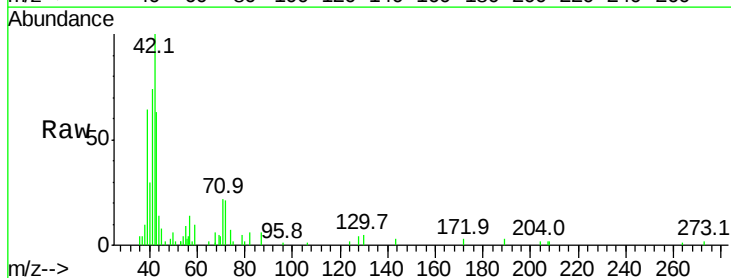
Tgt Ion: 42 Resp: 5439

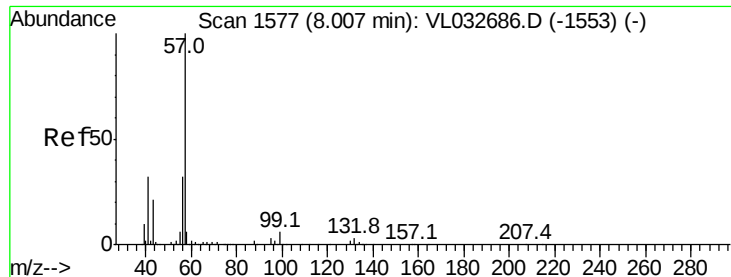
Ion Ratio Lower Upper

42 100

72 0.0 32.4 48.6#

71 0.0 31.3 46.9#



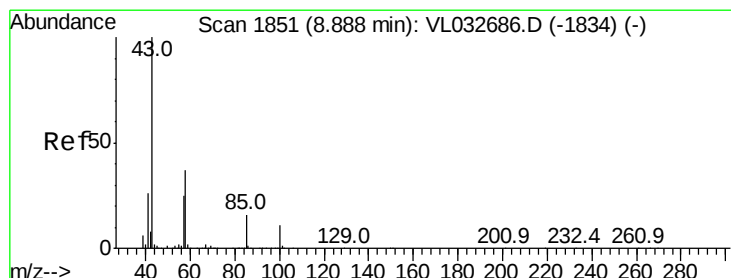
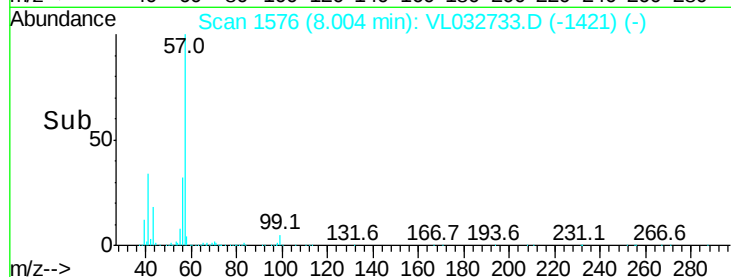
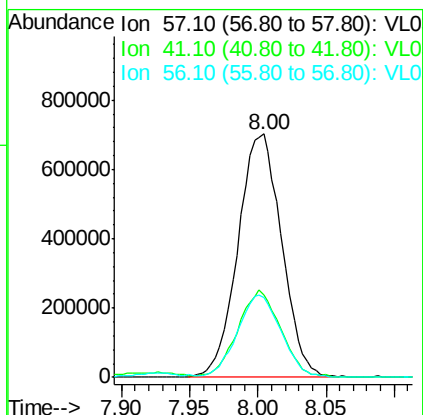
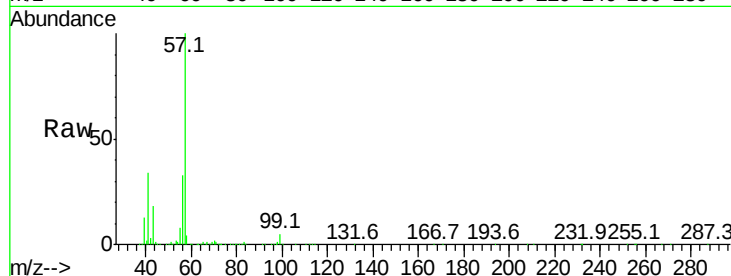


#44  
 2,2,4-Trimethylpentane  
 Concen: 3.288 ppbv  
 RT: 8.00 min Scan# 1576  
 Delta R.T. -0.00 min  
 Lab File: VL032733.D  
 Acq: 8 Nov 2018 1:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-03

Tgt Ion: 57 Resp: 1553022

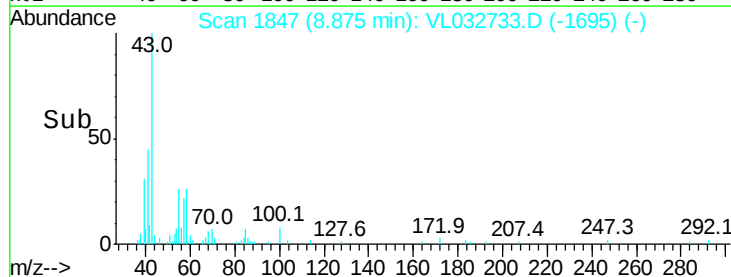
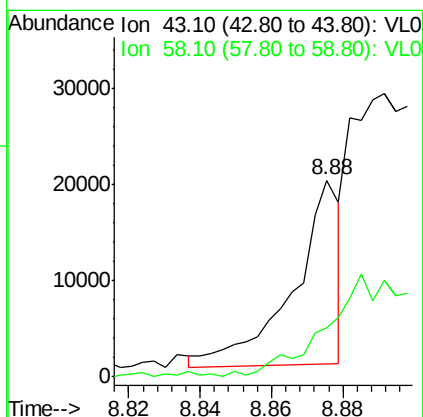
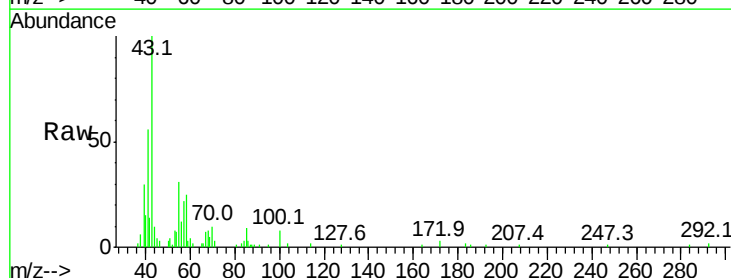
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 35.3  | 24.7  | 37.1  |
| 56  | 34.2  | 25.0  | 37.4  |

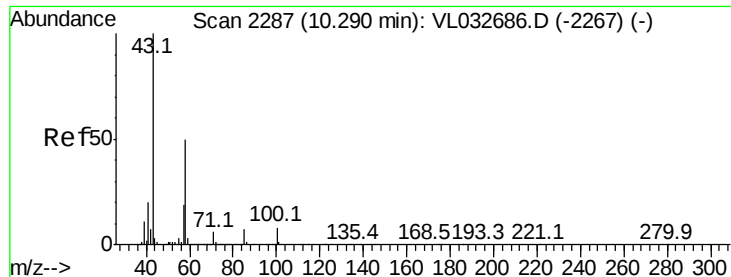


#50  
 4-Methyl-2-Pentanone  
 Concen: 0.064 ppbv  
 RT: 8.88 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: VL032733.D  
 Acq: 8 Nov 2018 1:38

Tgt Ion: 43 Resp: 17404

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 0.0   | 29.7  | 44.5# |





#51

2-Hexanone

Concen: 0.054 ppbv

RT: 10.26 min Scan# 2277

Delta R.T. -0.03 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampled :

SV-03

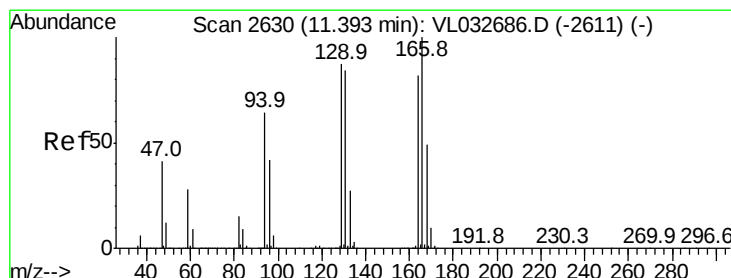
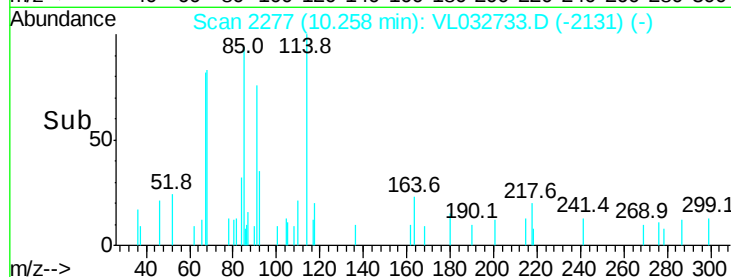
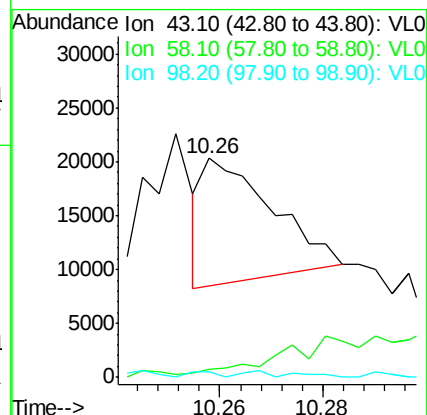
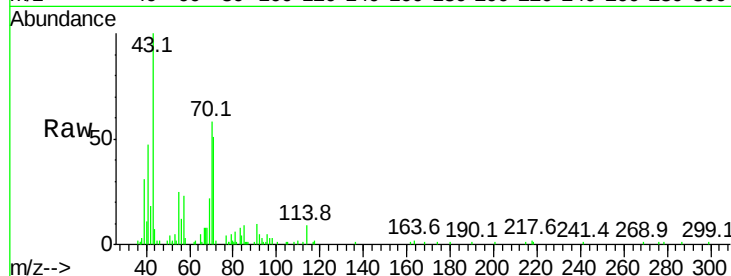
Tgt Ion: 43 Resp: 10834

Ion Ratio Lower Upper

43 100

58 101.1 40.4 60.6#

98 3.4 0.4 0.6#



#52

Tetrachloroethene

Concen: 0.107 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.02 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Tgt Ion: 164 Resp: 10334

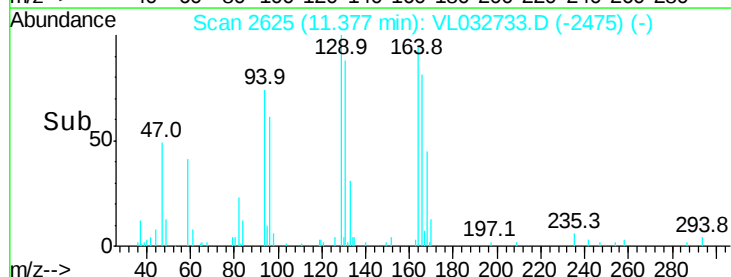
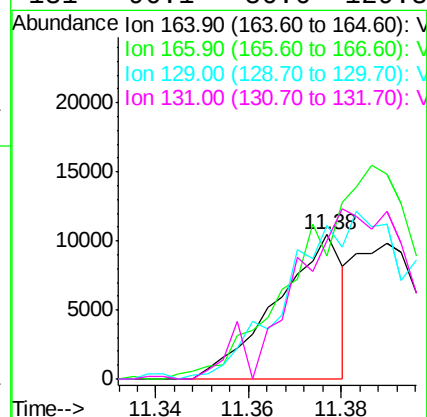
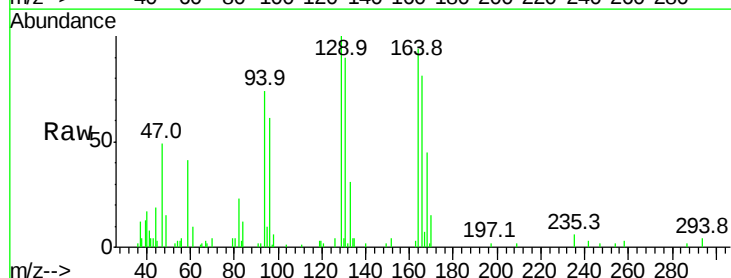
Ion Ratio Lower Upper

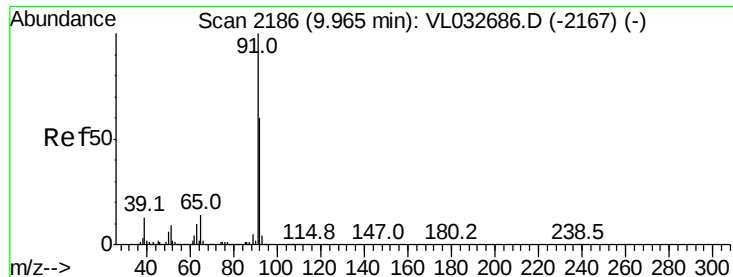
164 100

166 79.9 100.5 150.7#

129 103.8 90.0 135.0

131 96.1 86.6 129.8





#53

Toluene

Concen: 24.190 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampled :

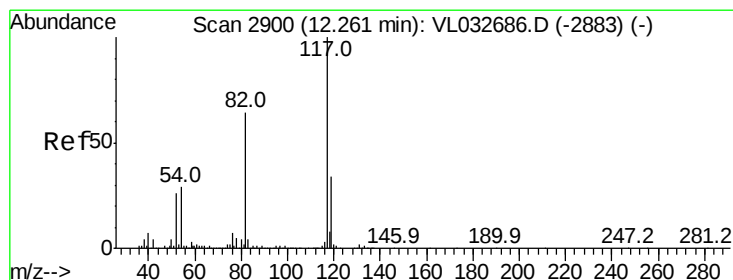
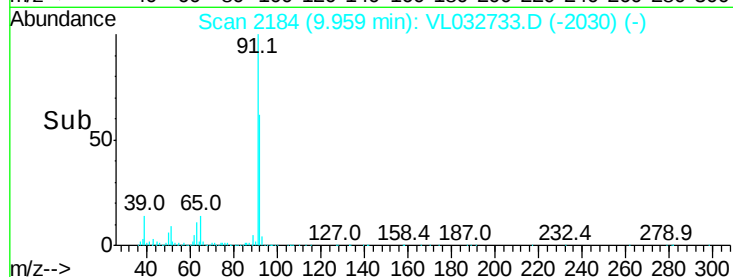
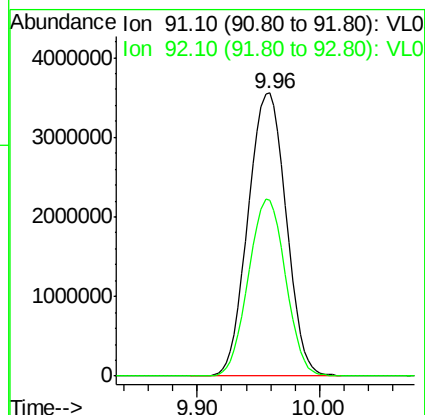
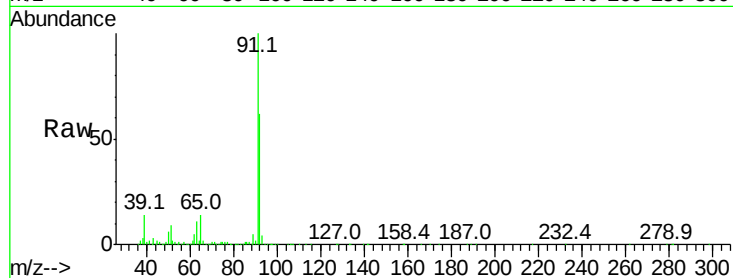
SV-03

Tgt Ion: 91 Resp: 7672276

Ion Ratio Lower Upper

91 100

92 61.0 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

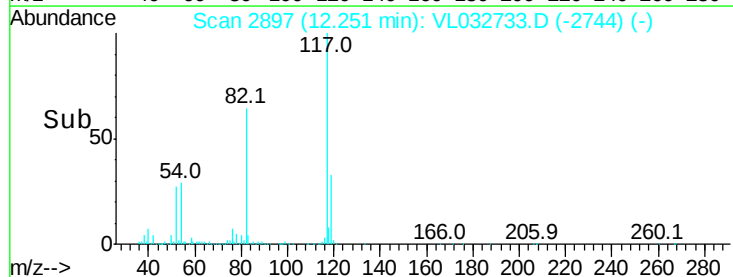
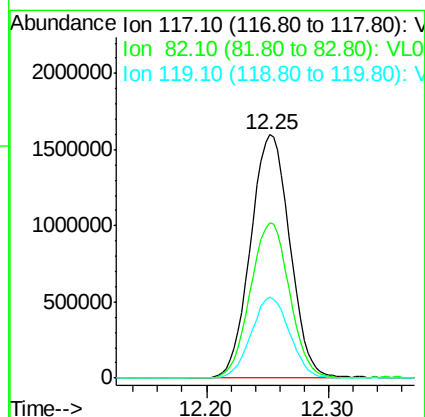
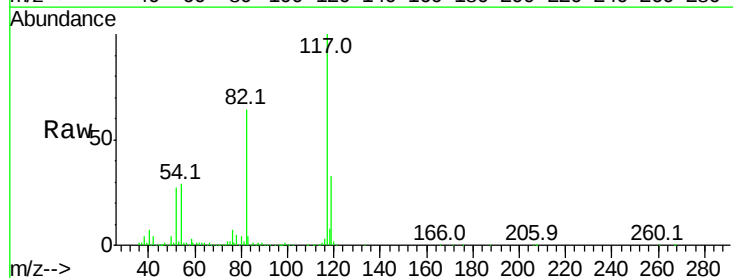
Tgt Ion: 117 Resp: 3552100

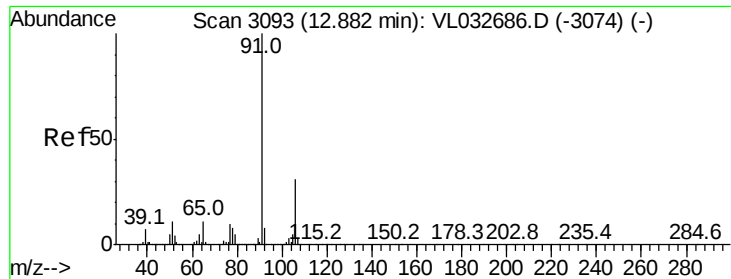
Ion Ratio Lower Upper

117 100

82 63.7 52.7 79.1

119 32.7 26.7 40.1





#58

Ethyl Benzene

Concen: 2.527 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

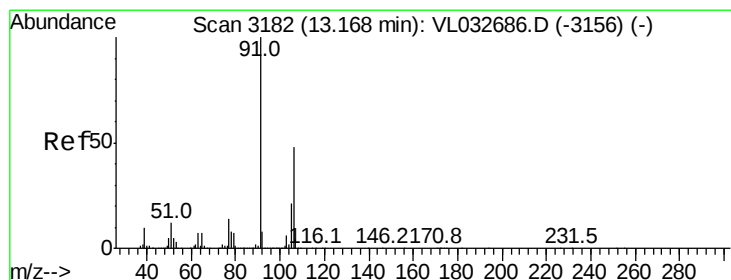
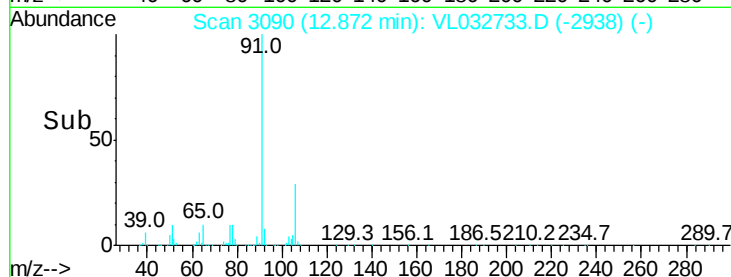
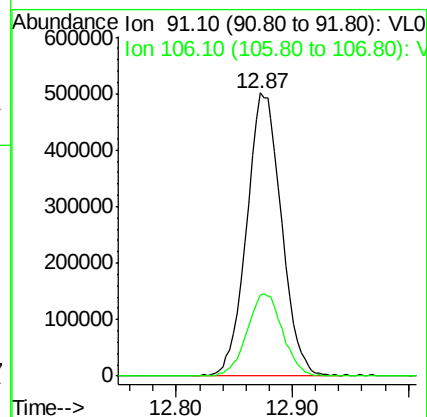
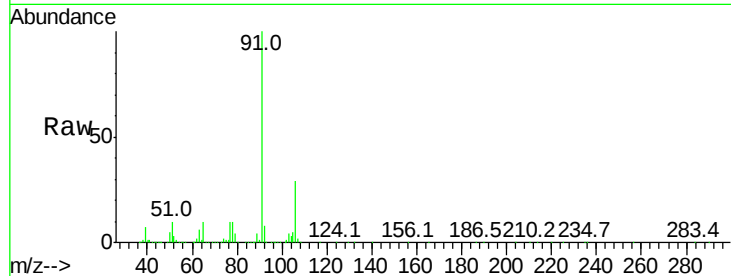
SV-03

Tgt Ion: 91 Resp: 1042748

Ion Ratio Lower Upper

91 100

106 28.8 24.2 36.2



#59

m/p-Xylene

Concen: 8.862 ppbv

RT: 13.13 min Scan# 3171

Delta R.T. -0.04 min

Lab File: VL032733.D

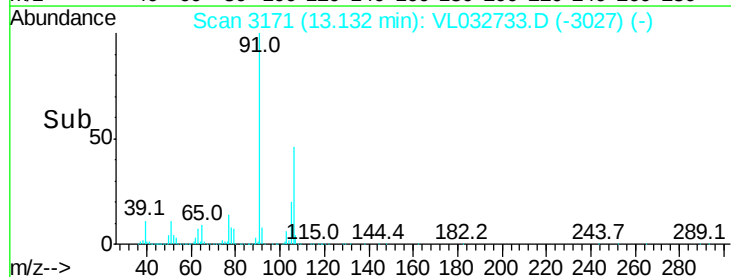
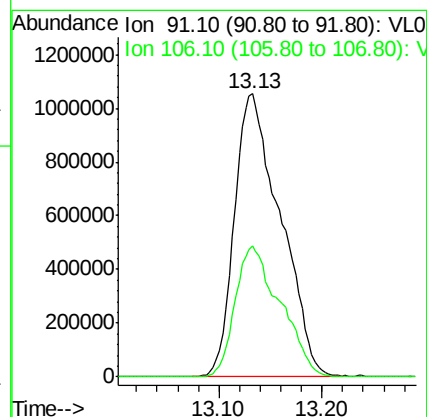
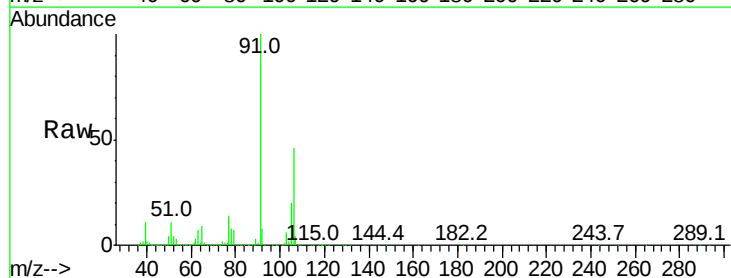
Acq: 8 Nov 2018 1:38

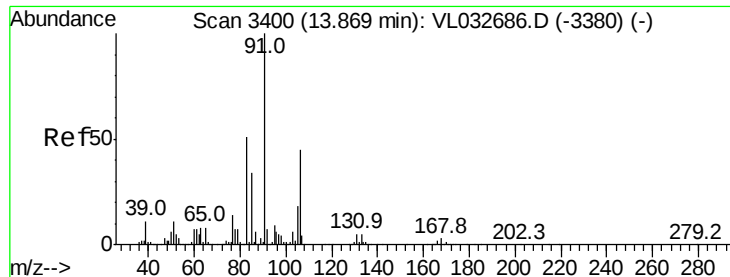
Tgt Ion: 91 Resp: 3256599

Ion Ratio Lower Upper

91 100

106 45.7 35.9 53.9

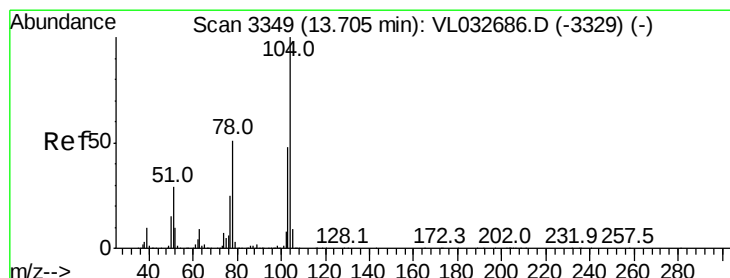
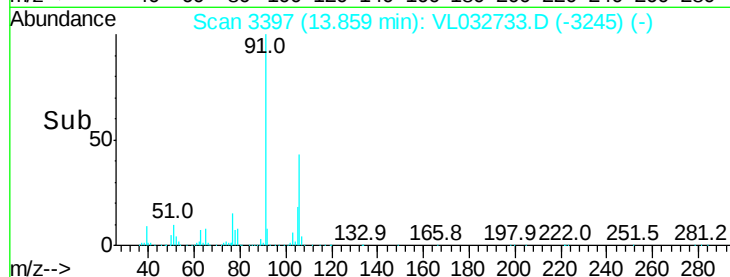
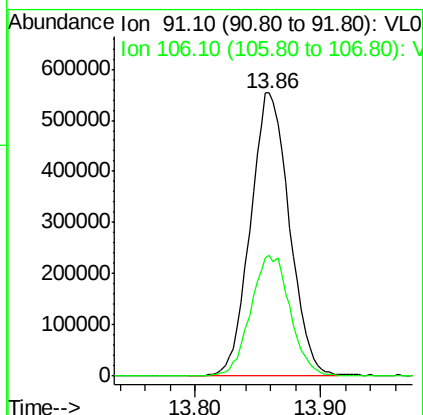
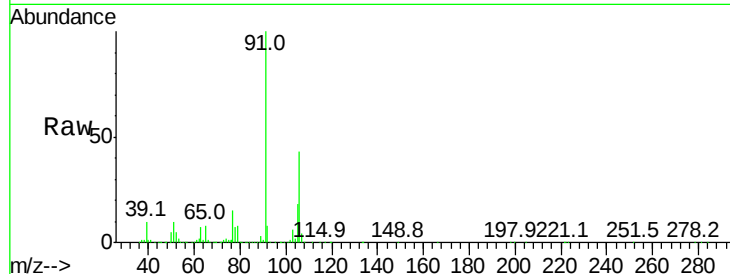




#60  
o-Xylene  
Concen: 3.356 ppbv  
RT: 13.86 min Scan# 3397  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

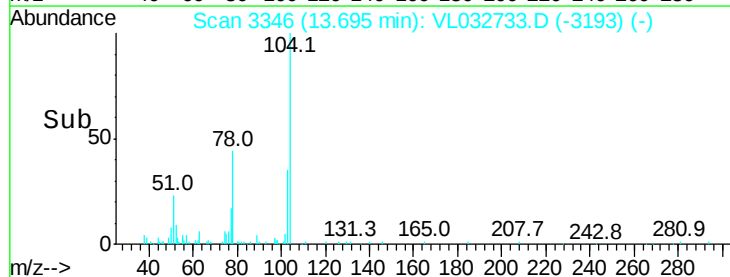
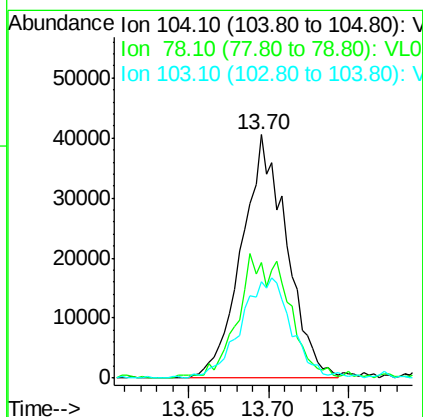
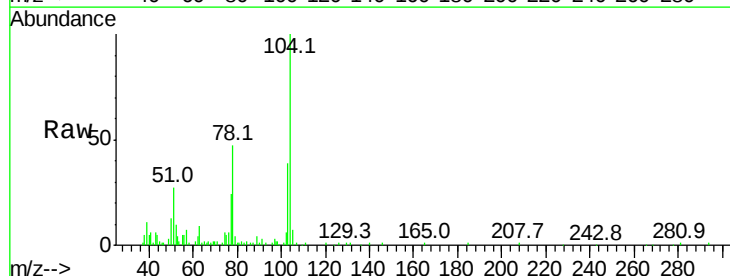
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-03

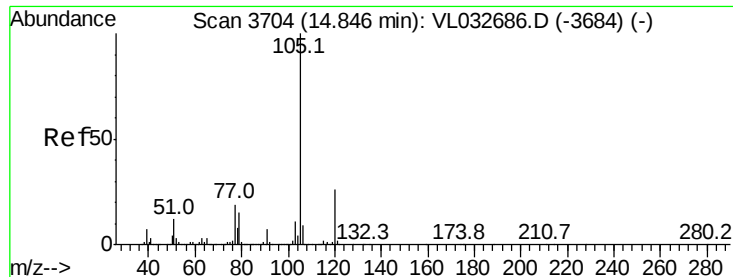
Tgt Ion: 91 Resp: 1189519  
Ion Ratio Lower Upper  
91 100  
106 43.5 22.1 66.1



#61  
Styrene  
Concen: 0.329 ppbv  
RT: 13.70 min Scan# 3346  
Delta R.T. -0.01 min  
Lab File: VL032733.D  
Acq: 8 Nov 2018 1:38

Tgt Ion: 104 Resp: 78170  
Ion Ratio Lower Upper  
104 100  
78 57.0 42.8 64.2  
103 46.5 37.4 56.0





#62

Isopropylbenzene

Concen: 0.046 ppbv

RT: 14.84 min Scan# 3703

Delta R.T. -0.00 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampled :

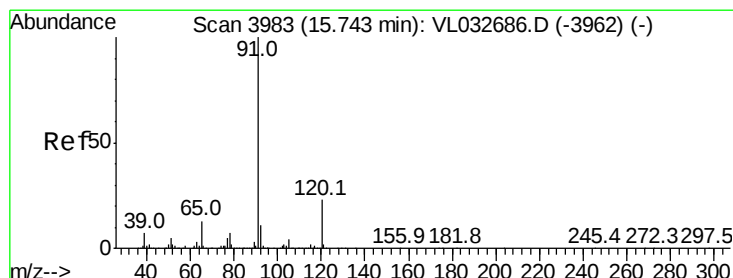
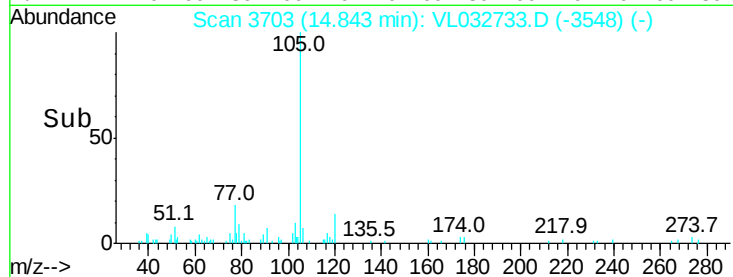
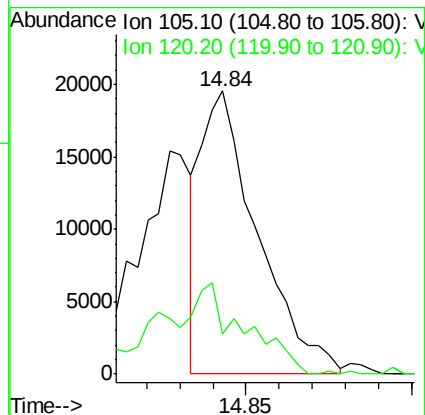
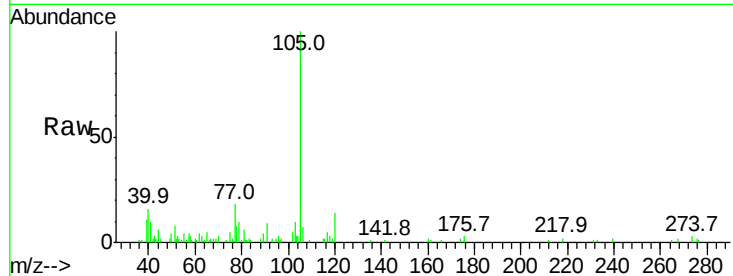
SV-03

Tgt Ion:105 Resp: 23092

Ion Ratio Lower Upper

105 100

120 48.7 20.5 30.7#



#64

n-propylbenzene

Concen: 0.273 ppbv

RT: 15.74 min Scan# 3981

Delta R.T. -0.00 min

Lab File: VL032733.D

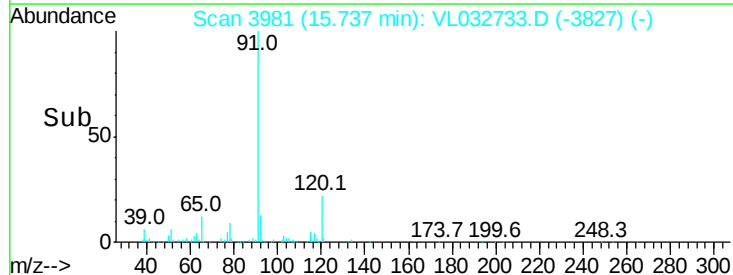
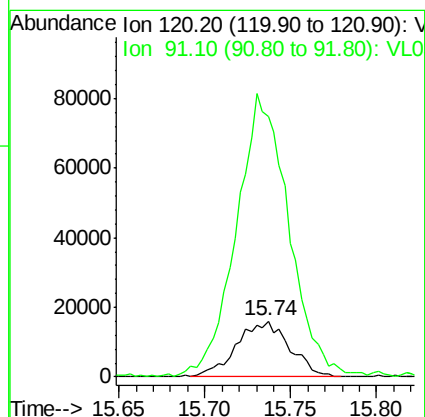
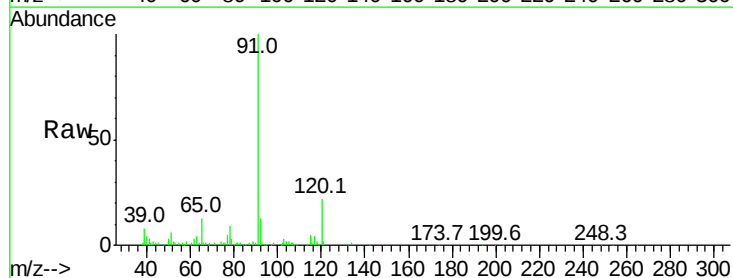
Acq: 8 Nov 2018 1:38

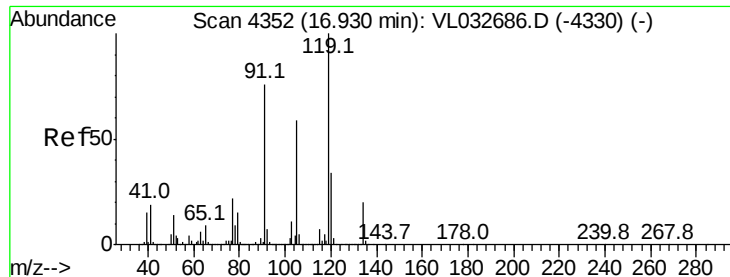
Tgt Ion:120 Resp: 34005

Ion Ratio Lower Upper

120 100

91 513.8 390.2 585.2





#65

tert-Butylbenzene

Concen: 0.204 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

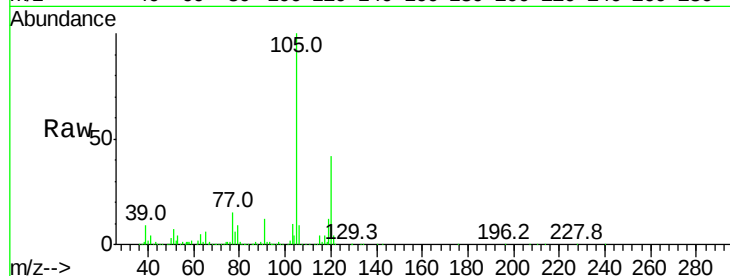
Tgt Ion:119 Resp: 87339

Ion Ratio Lower Upper

119 100

91 133.9 67.8 101.8#

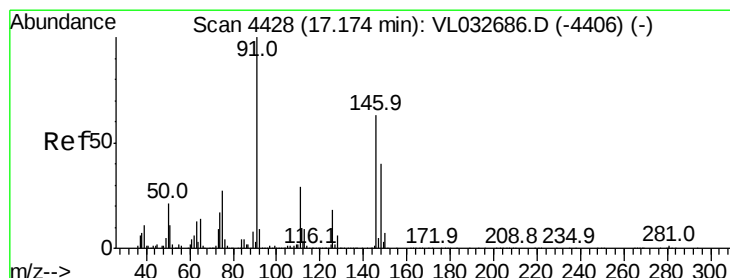
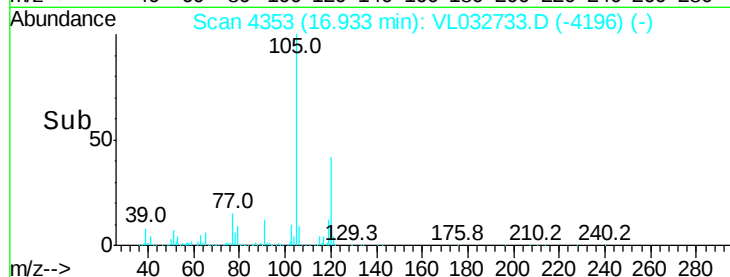
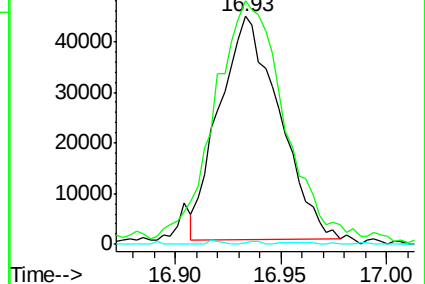
134 0.0 15.8 23.8#



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



#66

Benzyl Chloride

Concen: 0.040 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

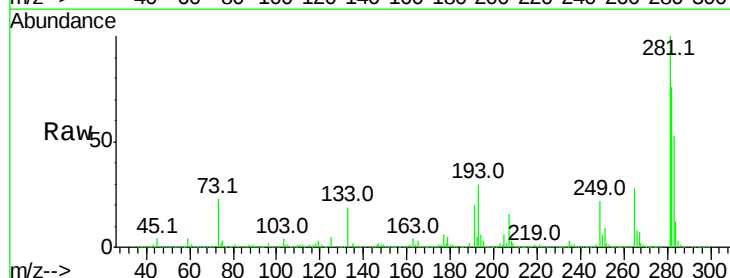
Tgt Ion: 91 Resp: 8801

Ion Ratio Lower Upper

91 100

126 143.8 13.9 20.9#

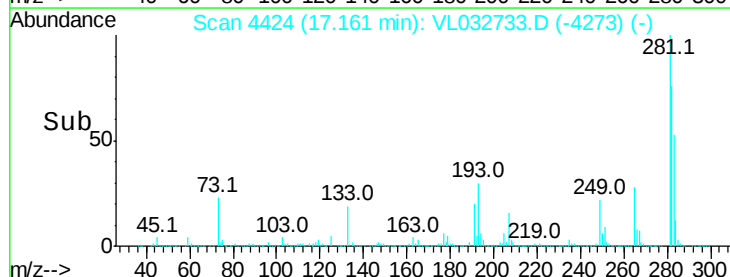
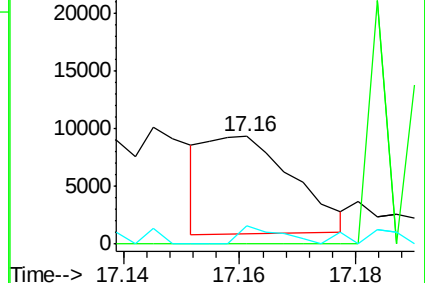
128 19.9 4.3 6.5#

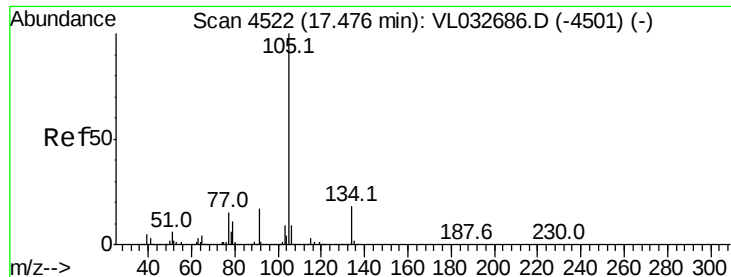


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

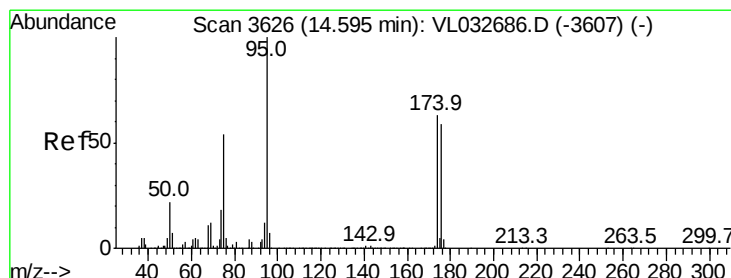
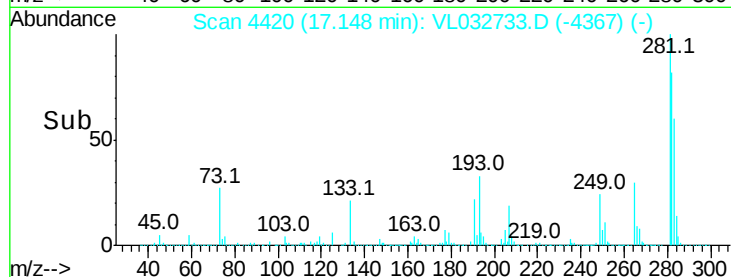
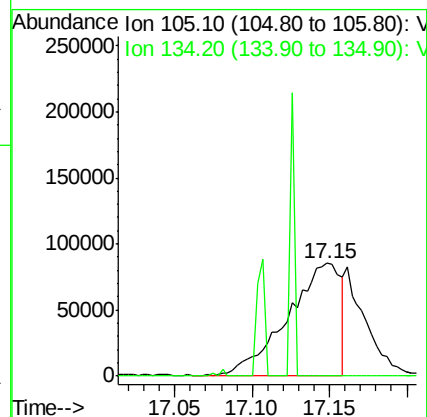
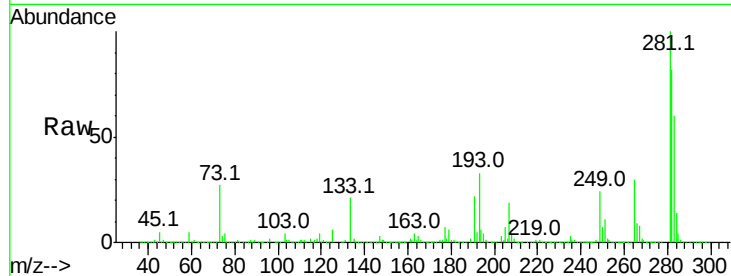




#67  
 sec-Butylbenzene  
 Concen: 0.333 ppbv  
 RT: 17.15 min Scan# 4420  
 Delta R.T. -0.33 min  
 Lab File: VL032733.D  
 Acq: 8 Nov 2018 1:38

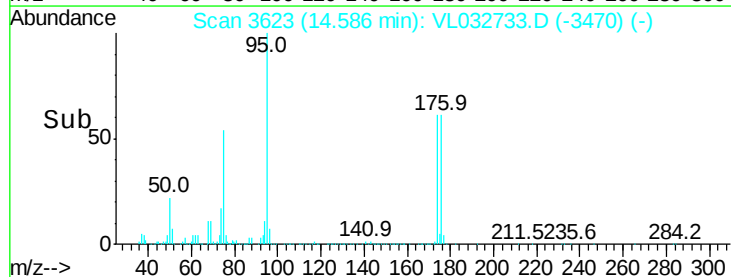
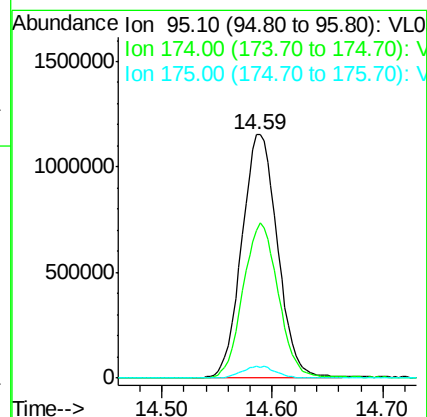
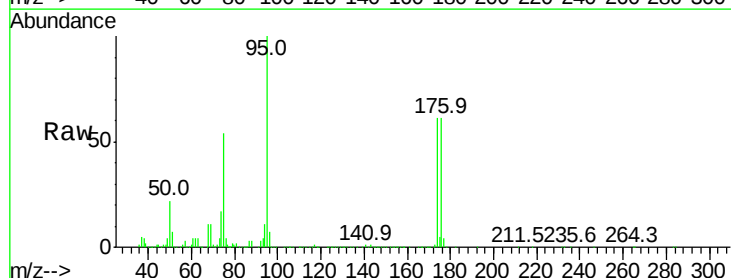
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 SV-03

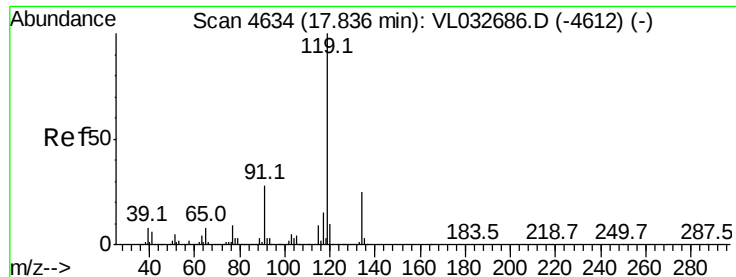
Tgt Ion: 105 Resp: 202604  
 Ion Ratio Lower Upper  
 105 100  
 134 15.9 14.2 21.2



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.827 ppbv  
 RT: 14.59 min Scan# 3623  
 Delta R.T. -0.01 min  
 Lab File: VL032733.D  
 Acq: 8 Nov 2018 1:38

Tgt Ion: 95 Resp: 2599039  
 Ion Ratio Lower Upper  
 95 100  
 174 63.1 46.0 69.0  
 175 4.7 3.4 5.0





#69

p-Isopropyltoluene

Concen: 0.034 ppbv

RT: 17.83 min Scan# 4631

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

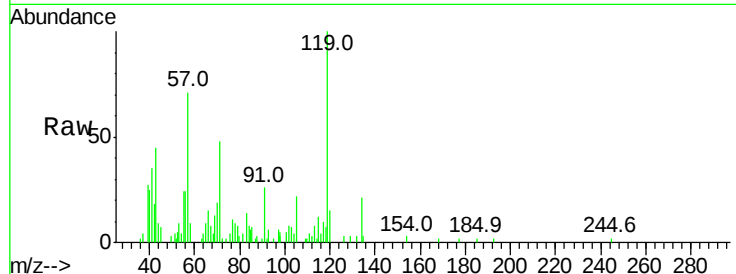
MSVOA\_L

ClientSampled :

SV-03

Tgt Ion: 119 Resp: 16311

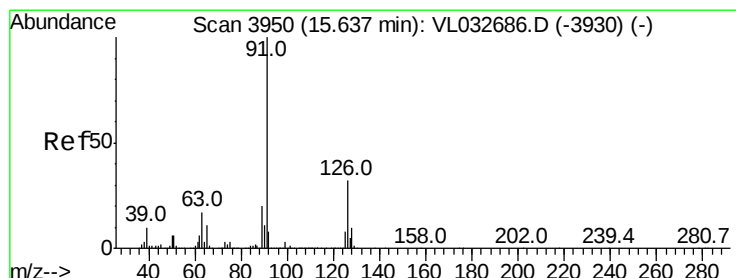
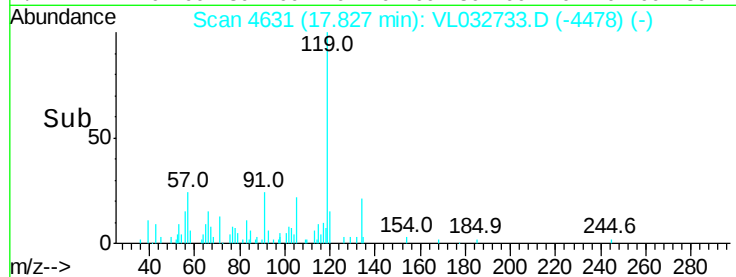
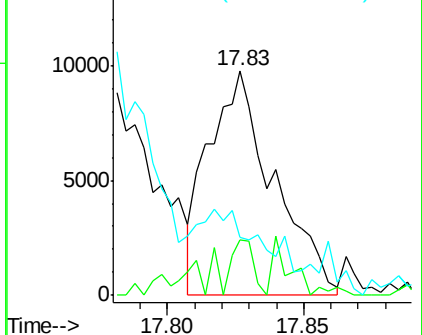
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 26.6  | 20.2  | 30.2  |
| 91  | 0.0   | 24.0  | 36.0# |



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



#71

2-Chlorotoluene

Concen: 0.478 ppbv

RT: 15.73 min Scan# 3979

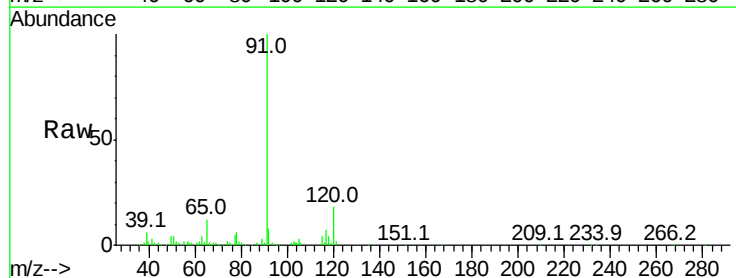
Delta R.T. 0.10 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

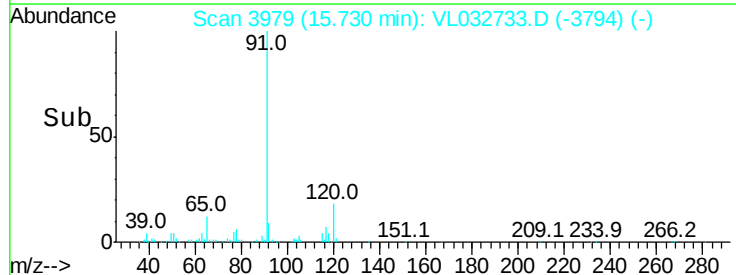
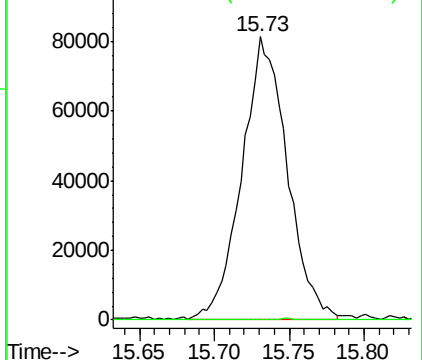
Tgt Ion: 91 Resp: 170391

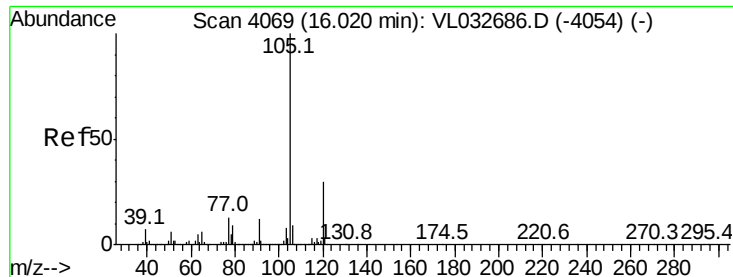
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 126 | 0.1   | 11.8  | 47.4# |



Abundance Ion 91.10 (90.80 to 91.80): V

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.754 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

Tgt Ion:105 Resp: 284763

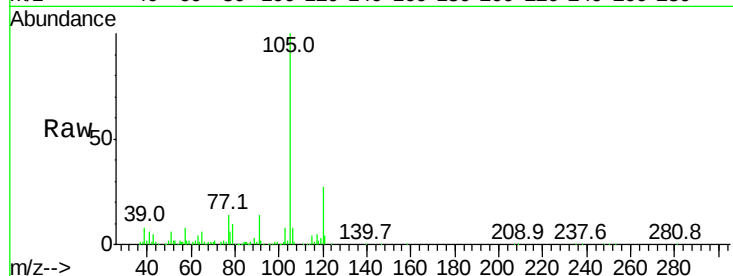
Ion Ratio Lower Upper

105 100

120 28.3 23.7 35.5

91 14.3 10.4 15.6

77 14.5 11.4 17.2

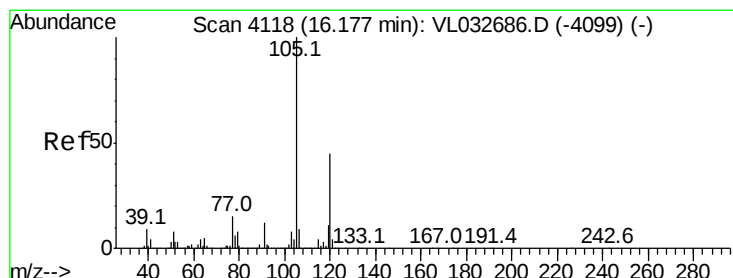
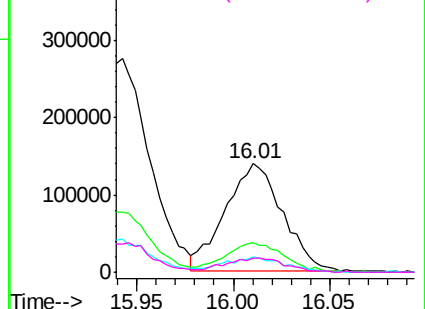
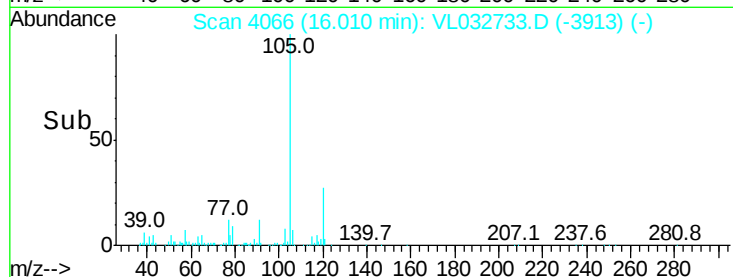


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.575 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. -0.01 min

Lab File: VL032733.D

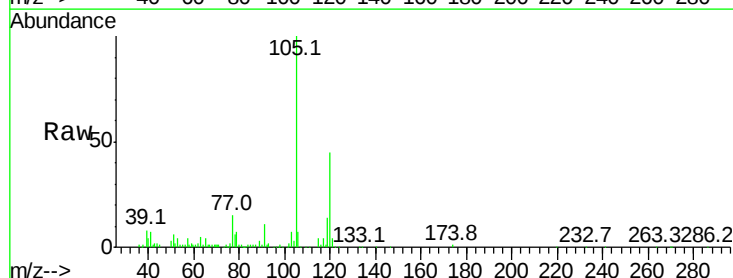
Acq: 8 Nov 2018 1:38

Tgt Ion:105 Resp: 211603

Ion Ratio Lower Upper

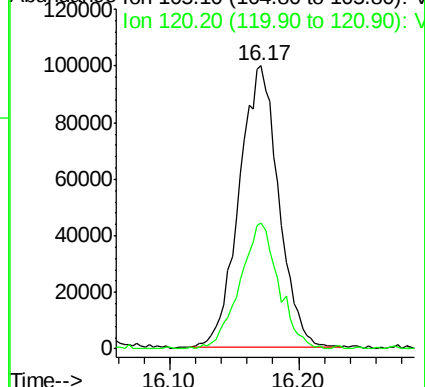
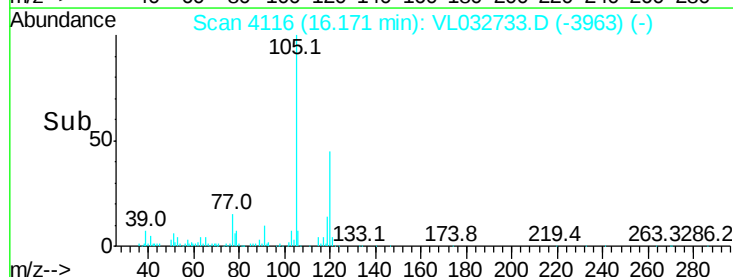
105 100

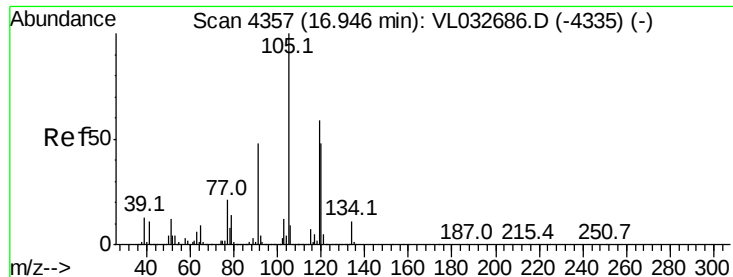
120 44.3 35.4 53.2



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: 2.196 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

Instrument :

MSVOA\_L

ClientSampleId :

SV-03

Tgt Ion:105 Resp: 862314

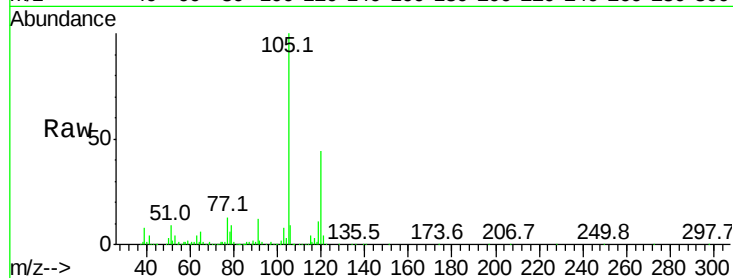
Ion Ratio Lower Upper

105 100

120 44.4 35.8 53.8

91 11.3 33.2 49.8#

77 12.9 16.2 24.4#

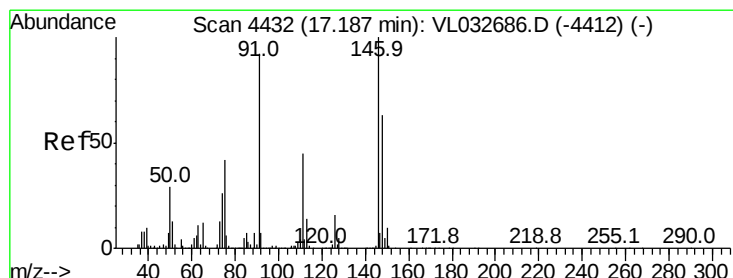
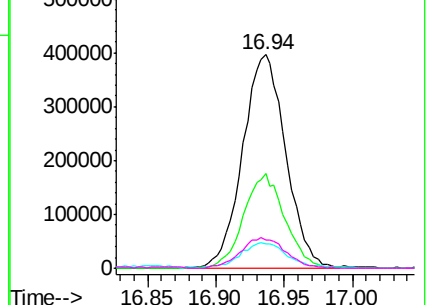
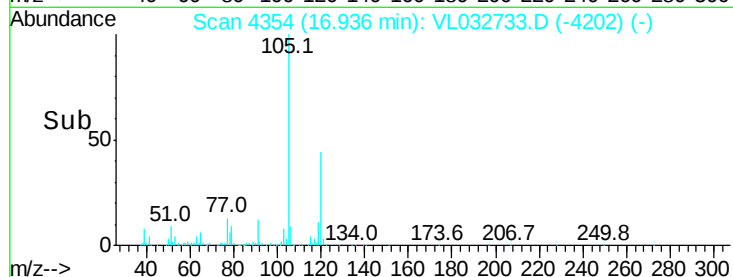


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.253 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.01 min

Lab File: VL032733.D

Acq: 8 Nov 2018 1:38

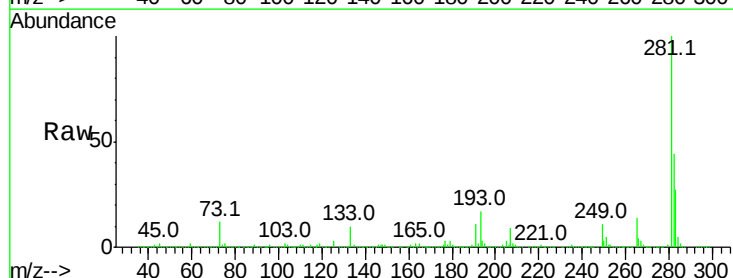
Tgt Ion:146 Resp: 57153

Ion Ratio Lower Upper

146 100

111 0.0 24.4 73.2#

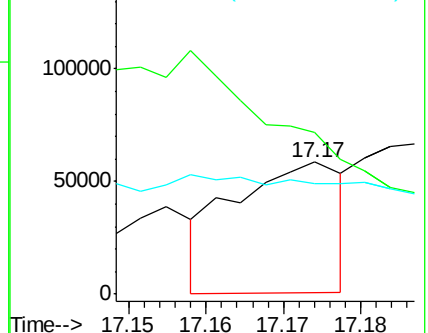
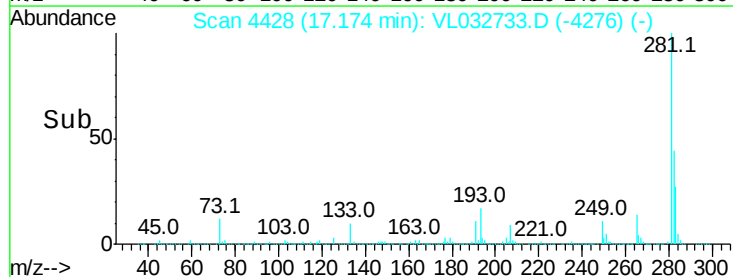
148 0.0 31.9 95.9#

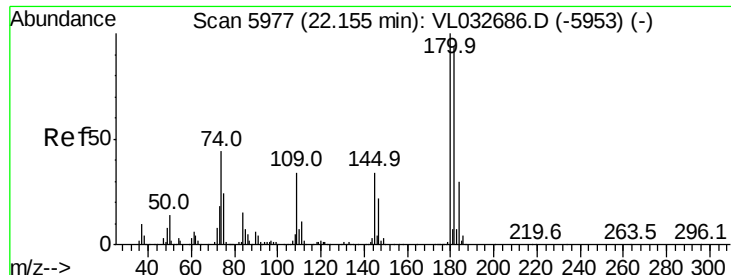


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.562 ppbv  
 RT: 21.67 min Scan# 5826  
 Delta R.T. -0.49 min  
 Lab File: VL032733.D  
 Acq: 8 Nov 2018 1:38

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-03

Tgt Ion:180 Resp: 71003  
 Ion Ratio Lower Upper  
 180 100  
 182 8.9 76.5 114.7#  
 184 2.2 24.7 37.1#

