1. Determining dry air mass flow rate:

1a. See code for data from tables

1b. Saturation Pressure [kPa] (50, 30, 20 g/s):

in: 3.1417 3.2079 3.2463

Out: 3.1323 3.0583 3.0219

1c. Absolute humidity [kg H20/kg Air] (50, 30, 20 g/s):

in: 0.0088 0.0088 0.0085

Out: 0.0200 0.0186 0.0181

1d. Specific volume [m^3/kg] (50, 30, 20 g/s):

in: 0.0807 0.0819 0.0825

Out: 0.0830 0.0815 0.0807

These are all slightly lower than the chart value

1f. Mass flow rate of dry air [kg/s] (50, 30, 20 g/s):

0.1489 0.1504 0.1511

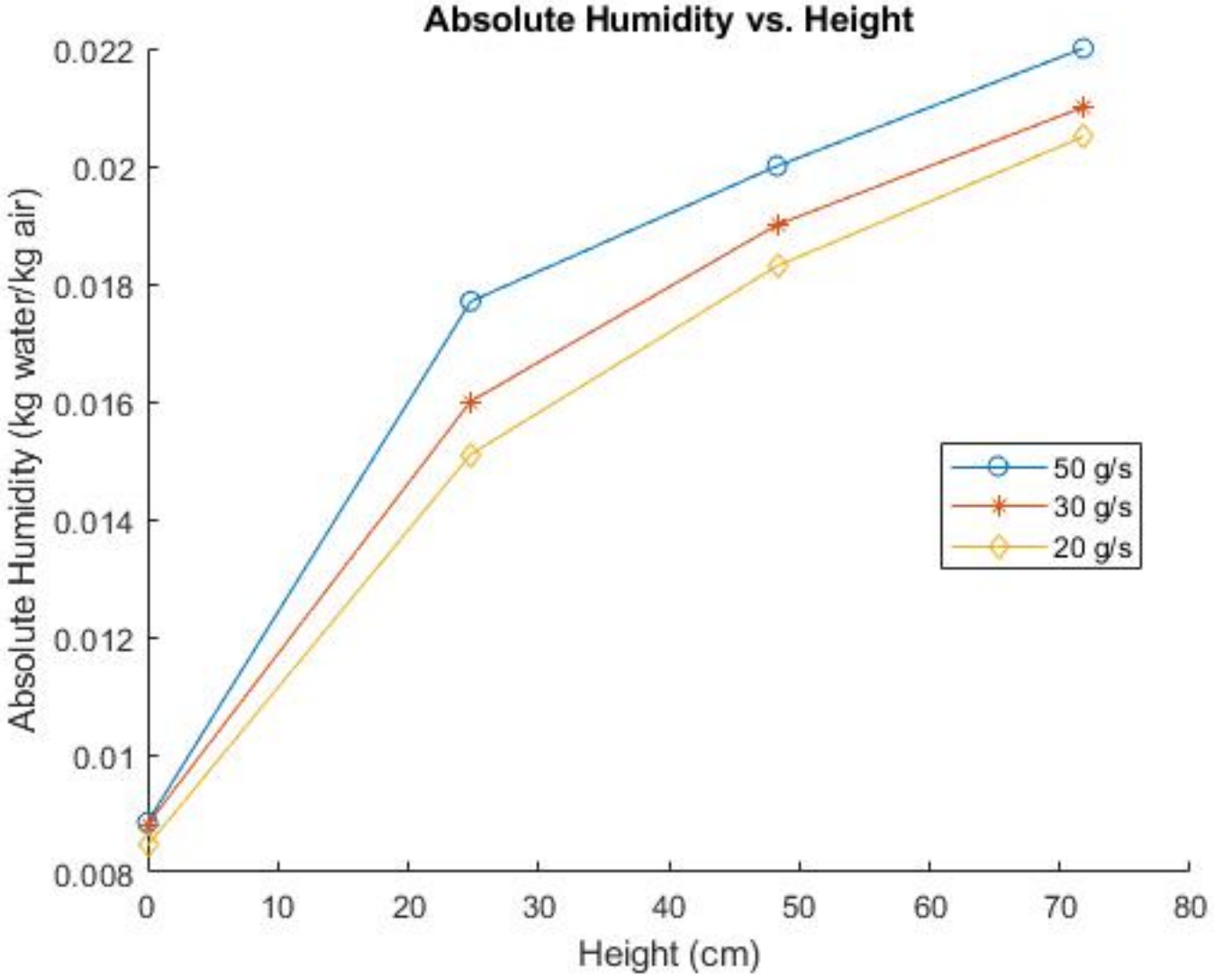
2. See attached code for table enthalpy values.
3. See attached code for table humidity values.
4. Mass flow rates of water vapor [kg/s] (50, 30, 20 g/s):

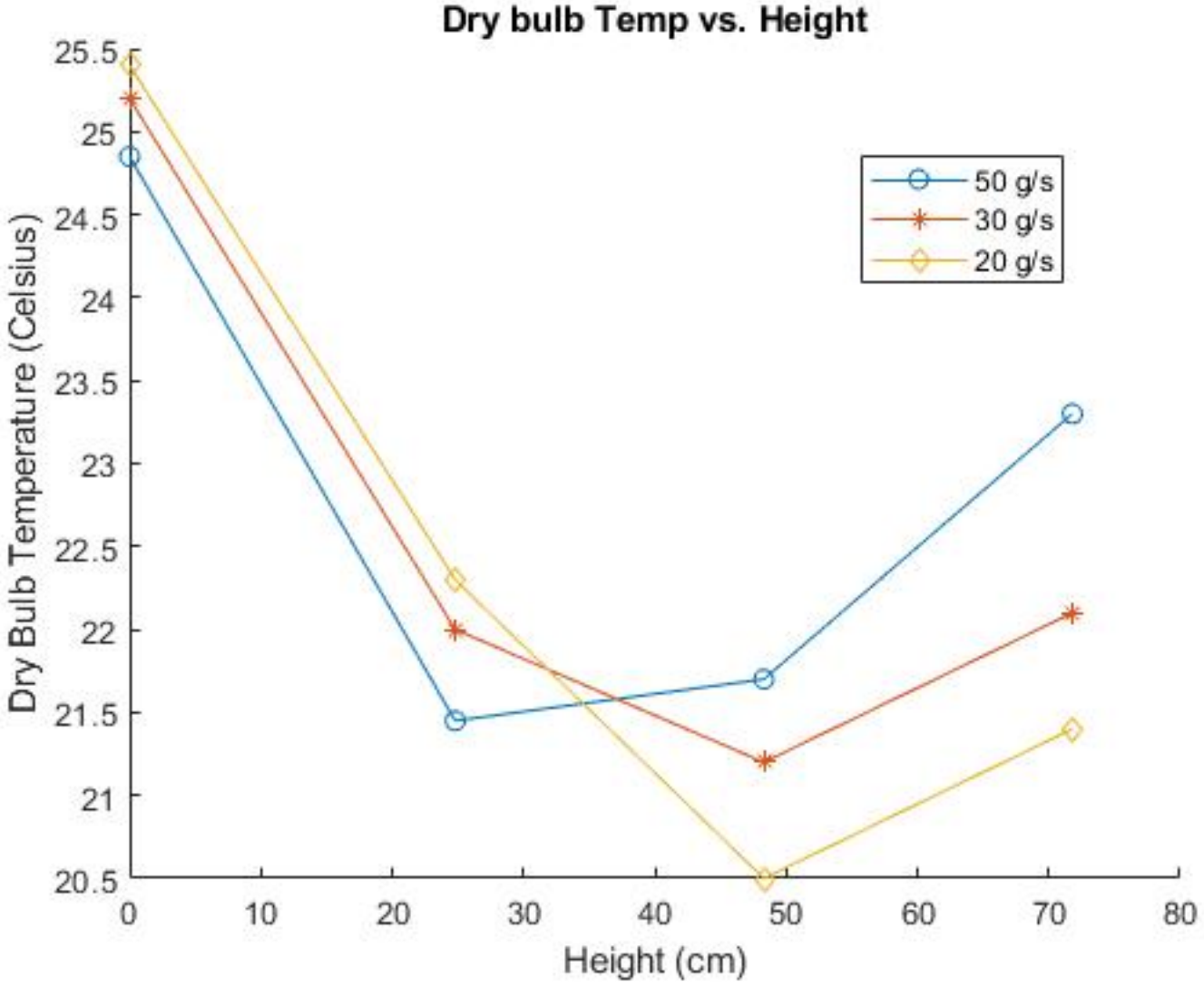
at A:	0.0013	0.0013	0.0013
at B:	0.0030	0.0028	0.0027

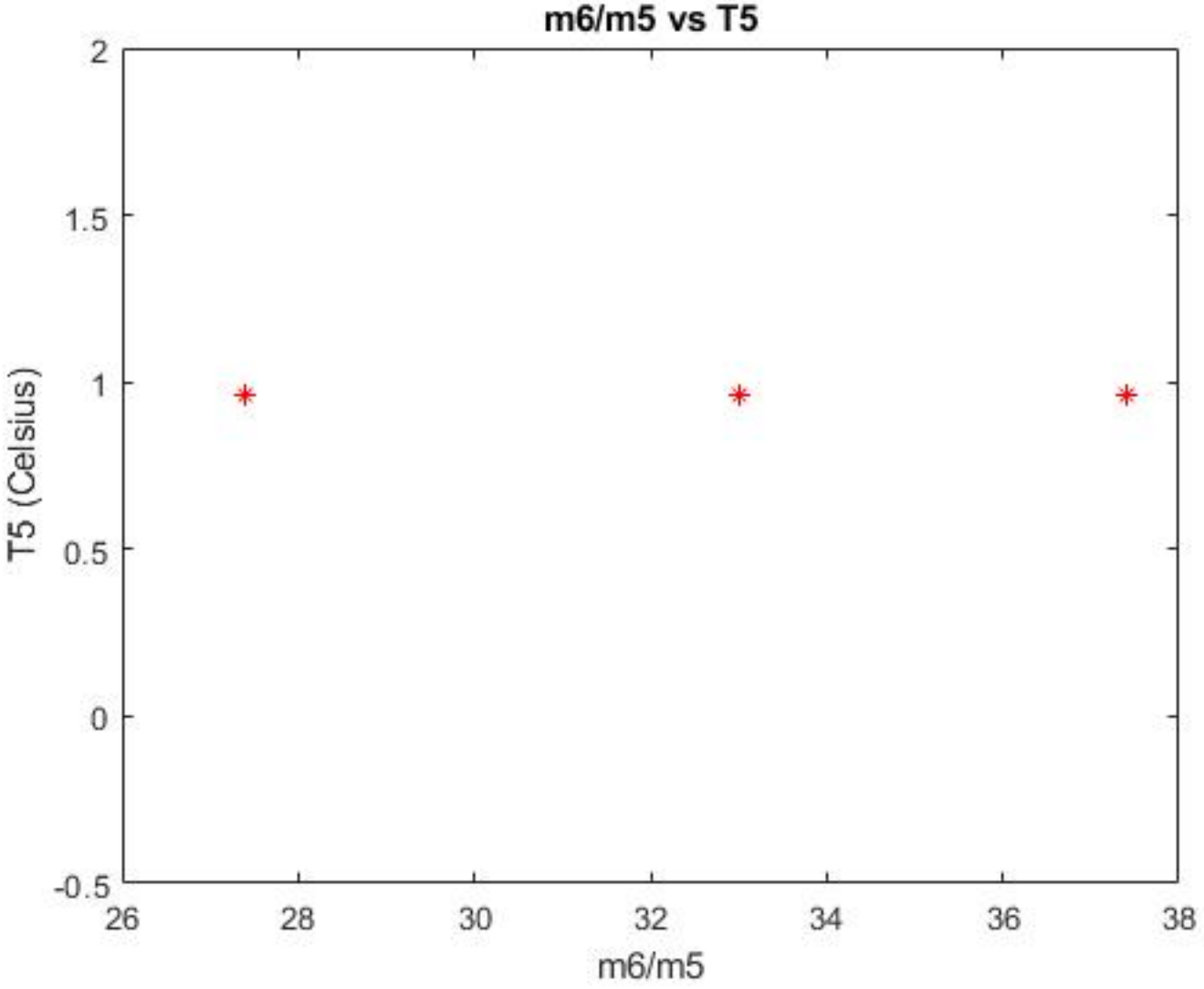
5. Enthalpy of Air/vapor mixture [kJ/kg] (50, 30, 20 g/s):

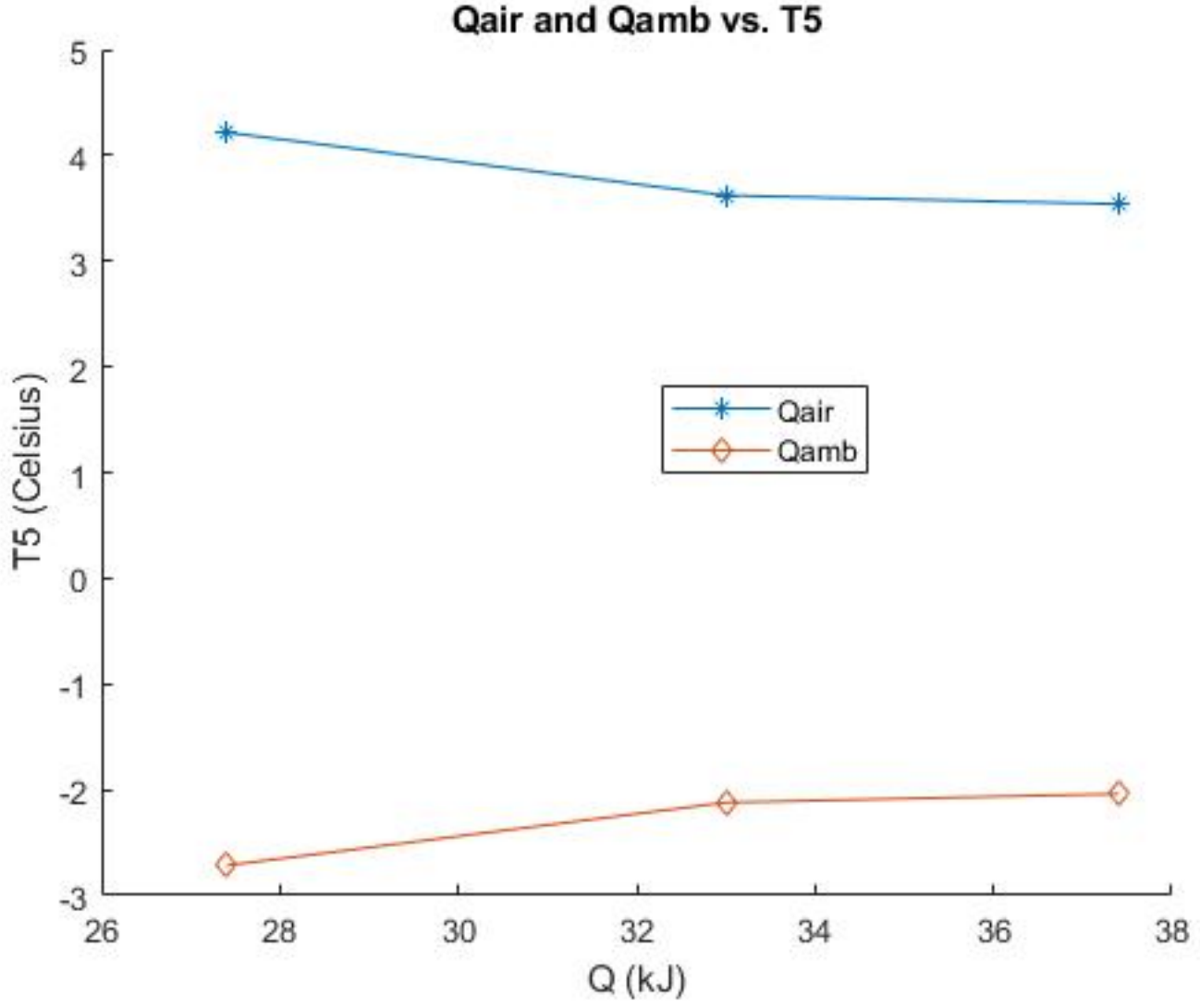
at A:	75.8151	71.8347	70.4741
at B:	75.8151	71.8347	70.4741

These are all slightly lower than the chart values


Absolute Humidity vs. Height
Absolute Humidity (kg water/kg air)
Height (cm)
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0
10
20
30
40
50
60
70
80
50 g/s
30 g/s
20 g/s


Dry bulb Temp vs. Height
Dry Bulb Temperature (Celsius)
Height (cm)
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
0
10
20
30
40
50
60
70
80
50 g/s
30 g/s
20 g/s


m6/m5 vs T5
T5 (Celsius)
m6/m5
2
1.5
1
0.5
0
-0.5
26
28
30
32
34
36
38


Qair and Qamb vs. T5
T5 (Celsius)
Q (kJ)
Qair
Qamb
5
4
3
2
1
0
-1
-2
-3
26
28
30
32
34
36
38