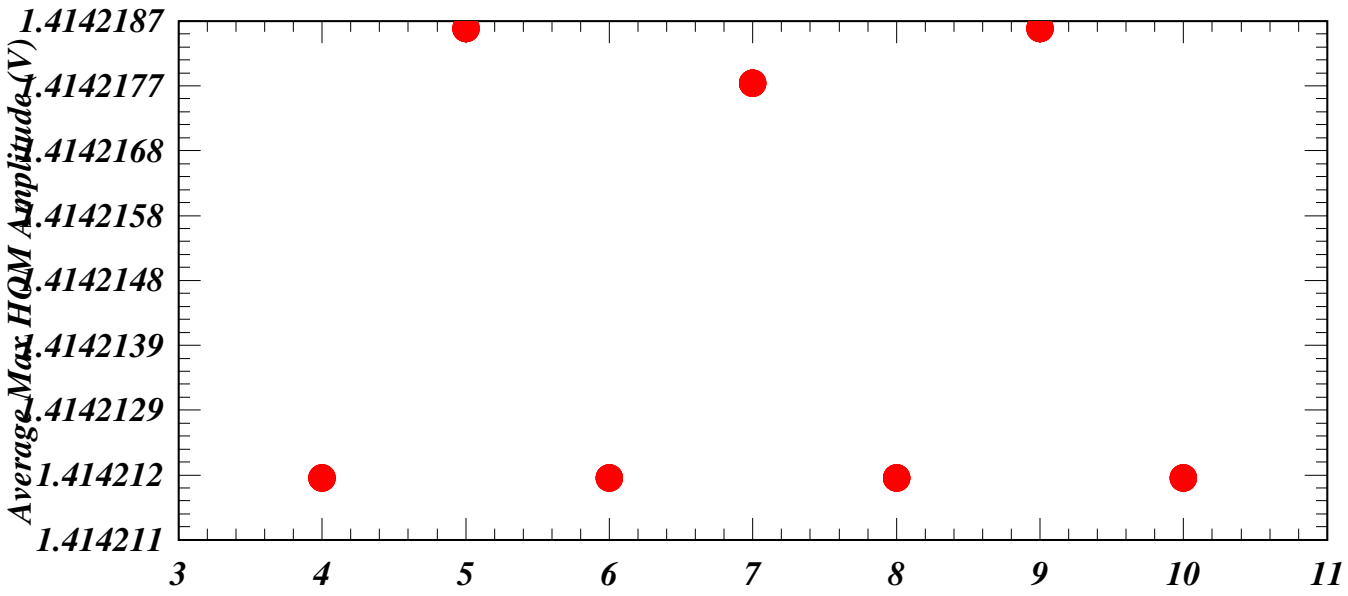
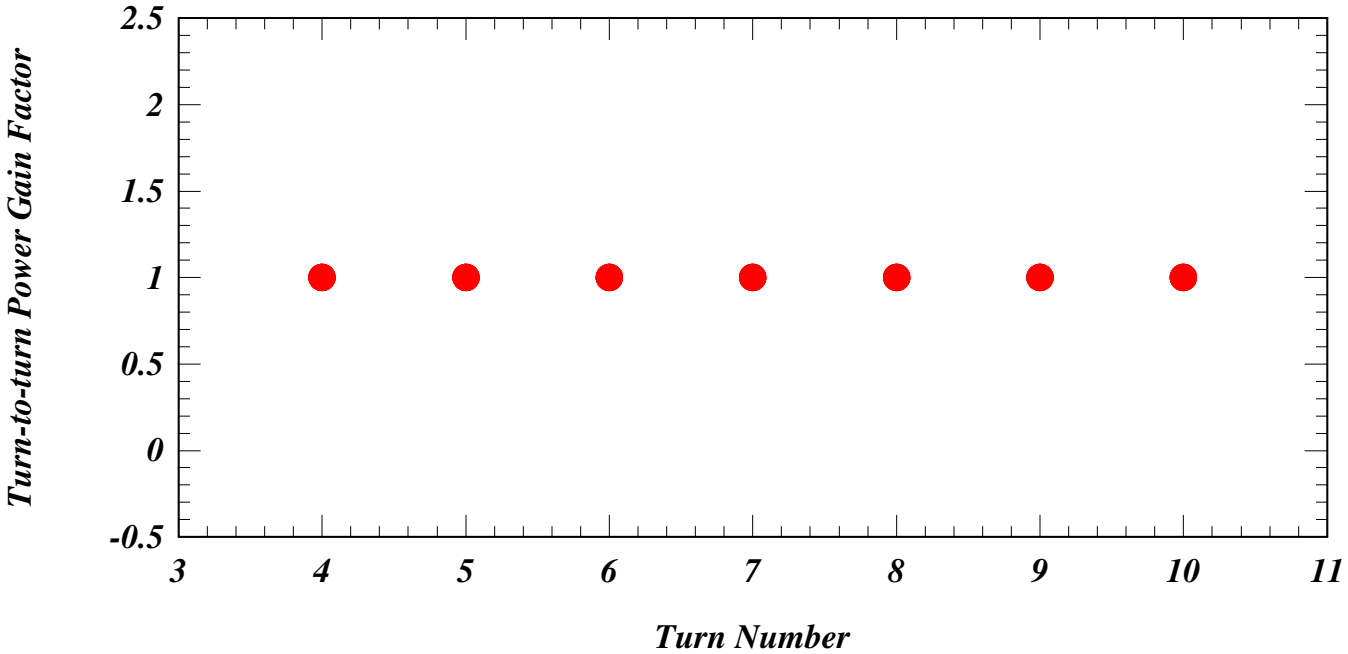
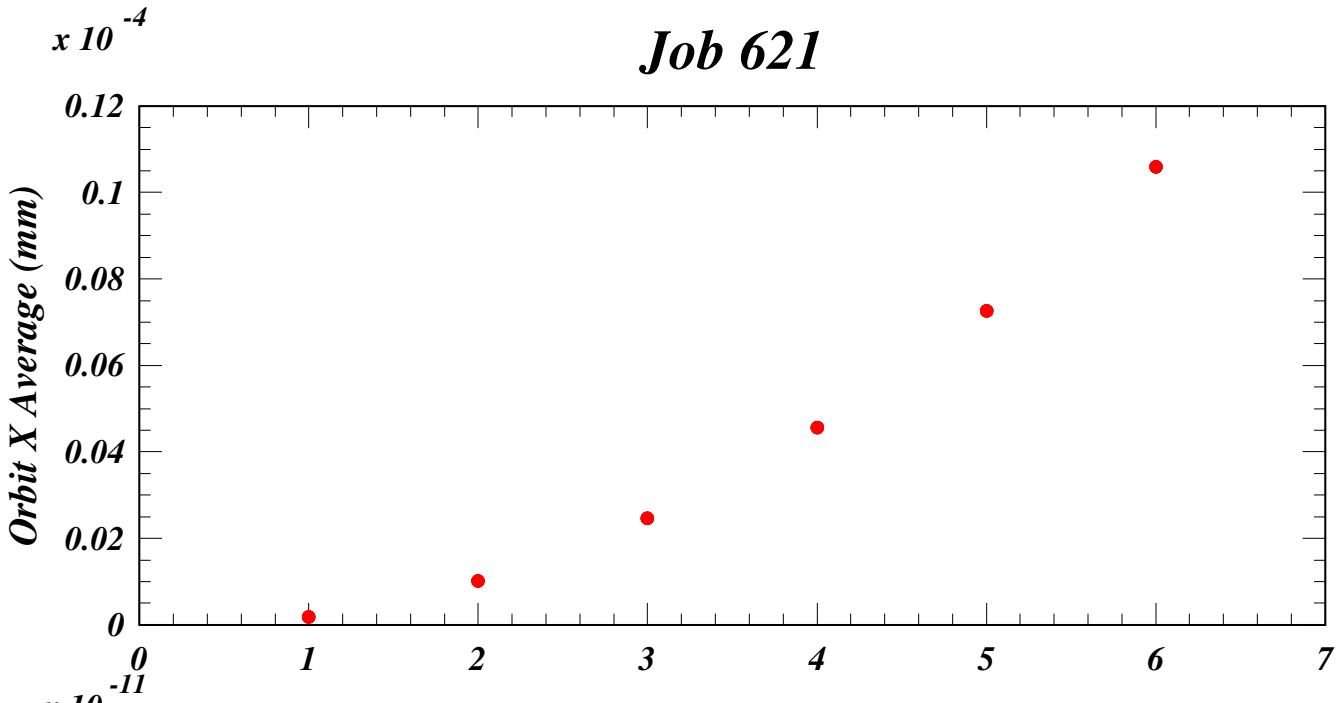
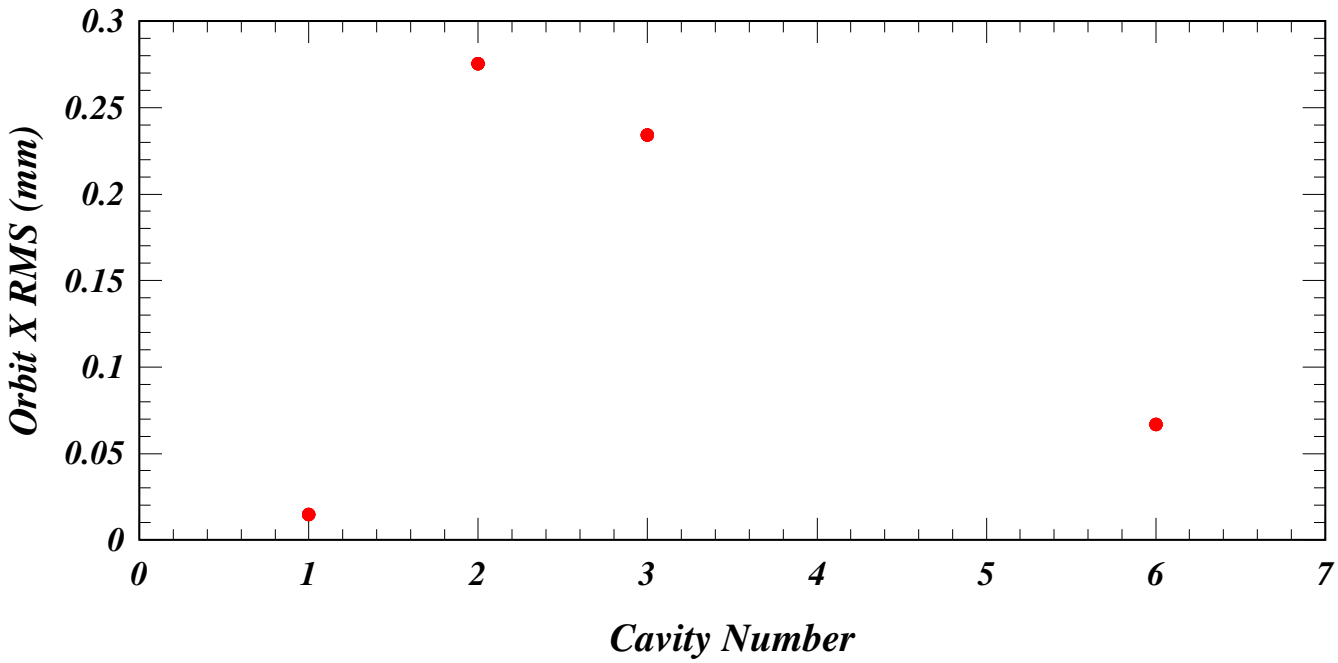
Job 621

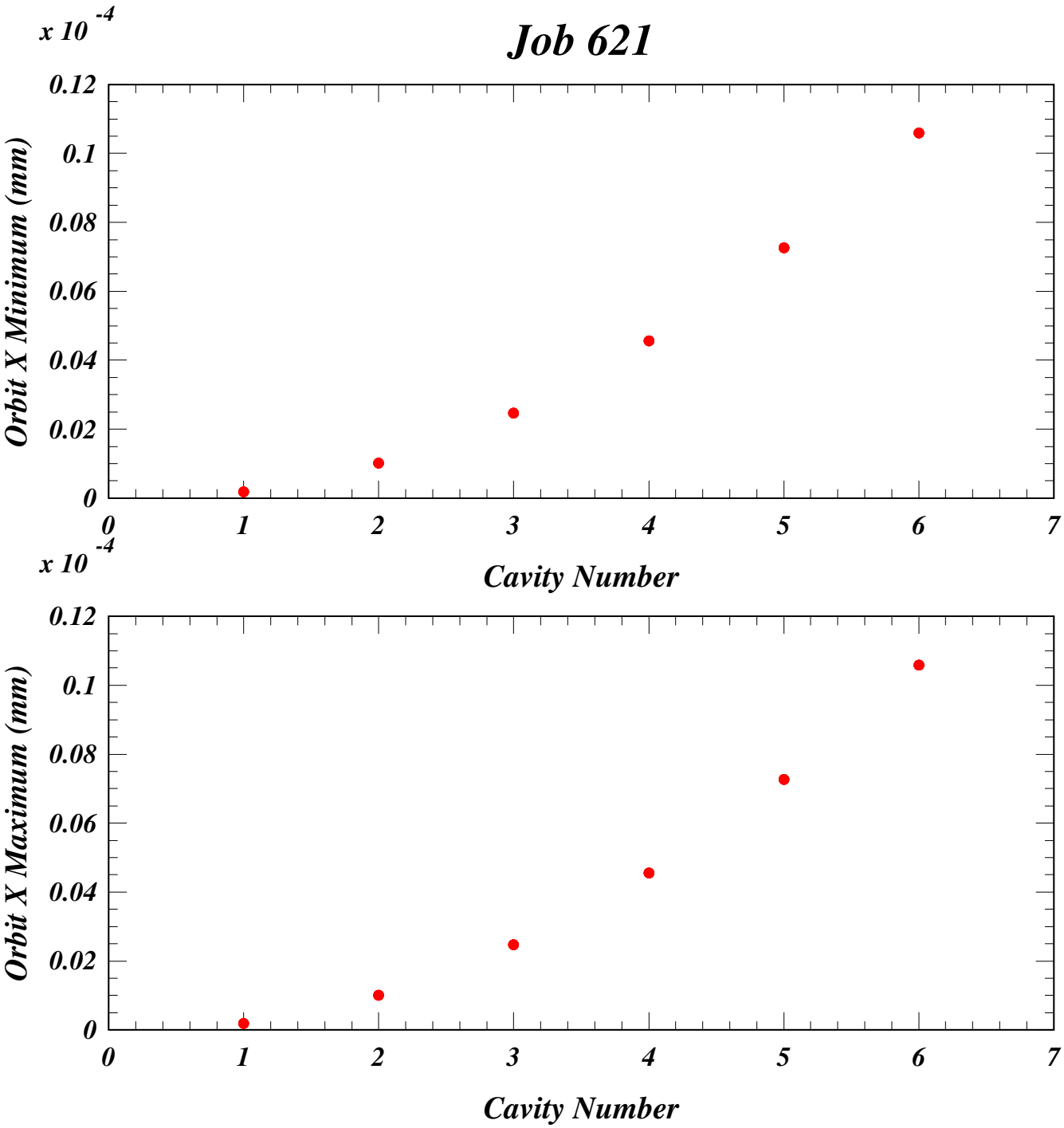

1.4142187
1.4142177
1.4142168
1.4142158
1.4142148
1.4142139
1.4142129
1.414212
1.414211
Average Max HQM Amplitude (V)
3
4
5
6
7
8
9
10
11
Turn Number

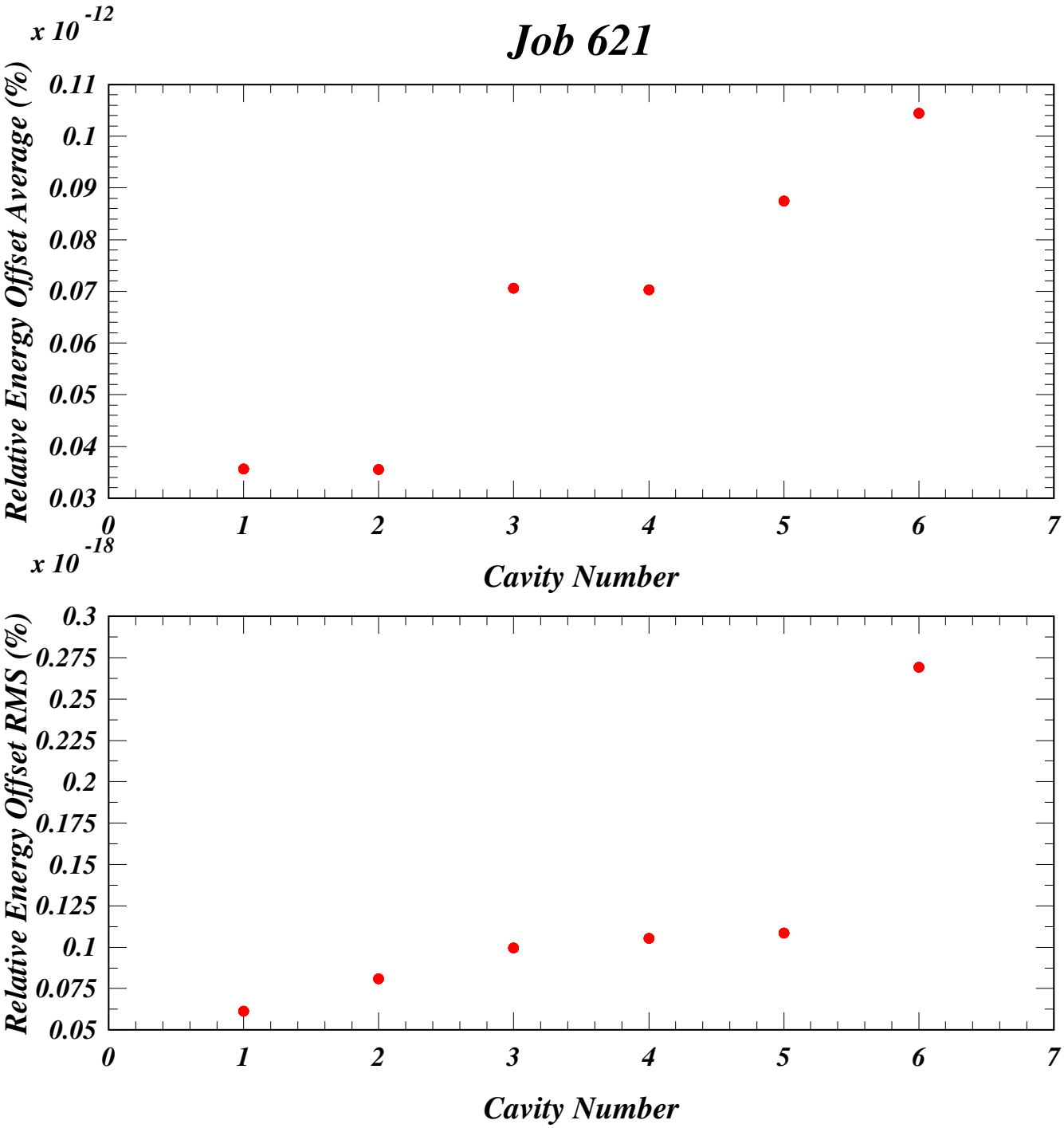

2.5
2
1.5
1
0.5
0
-0.5
Turn-to-turn Power Gain Factor
3
4
5
6
7
8
9
10
11
Turn Number

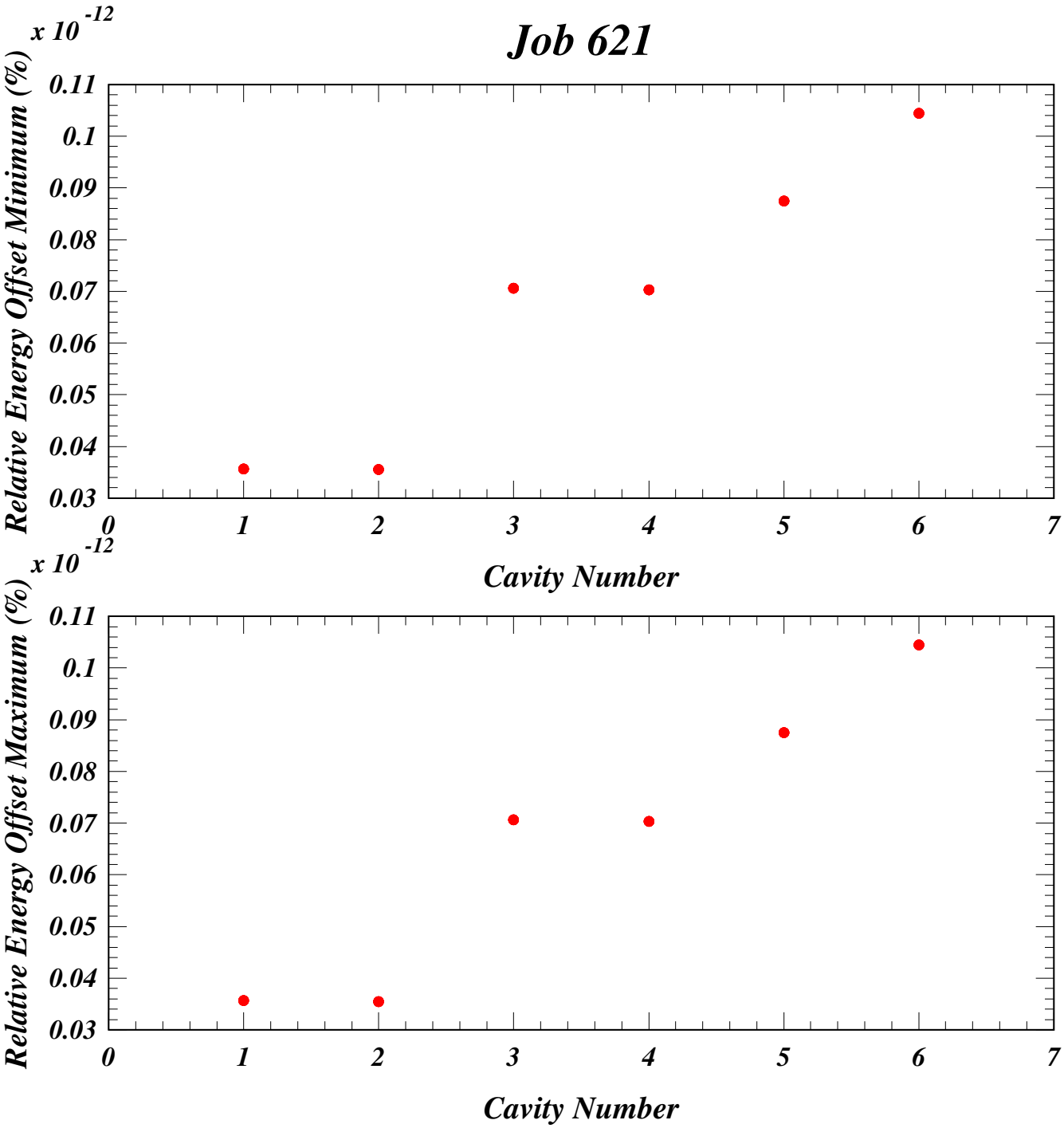
Job 621

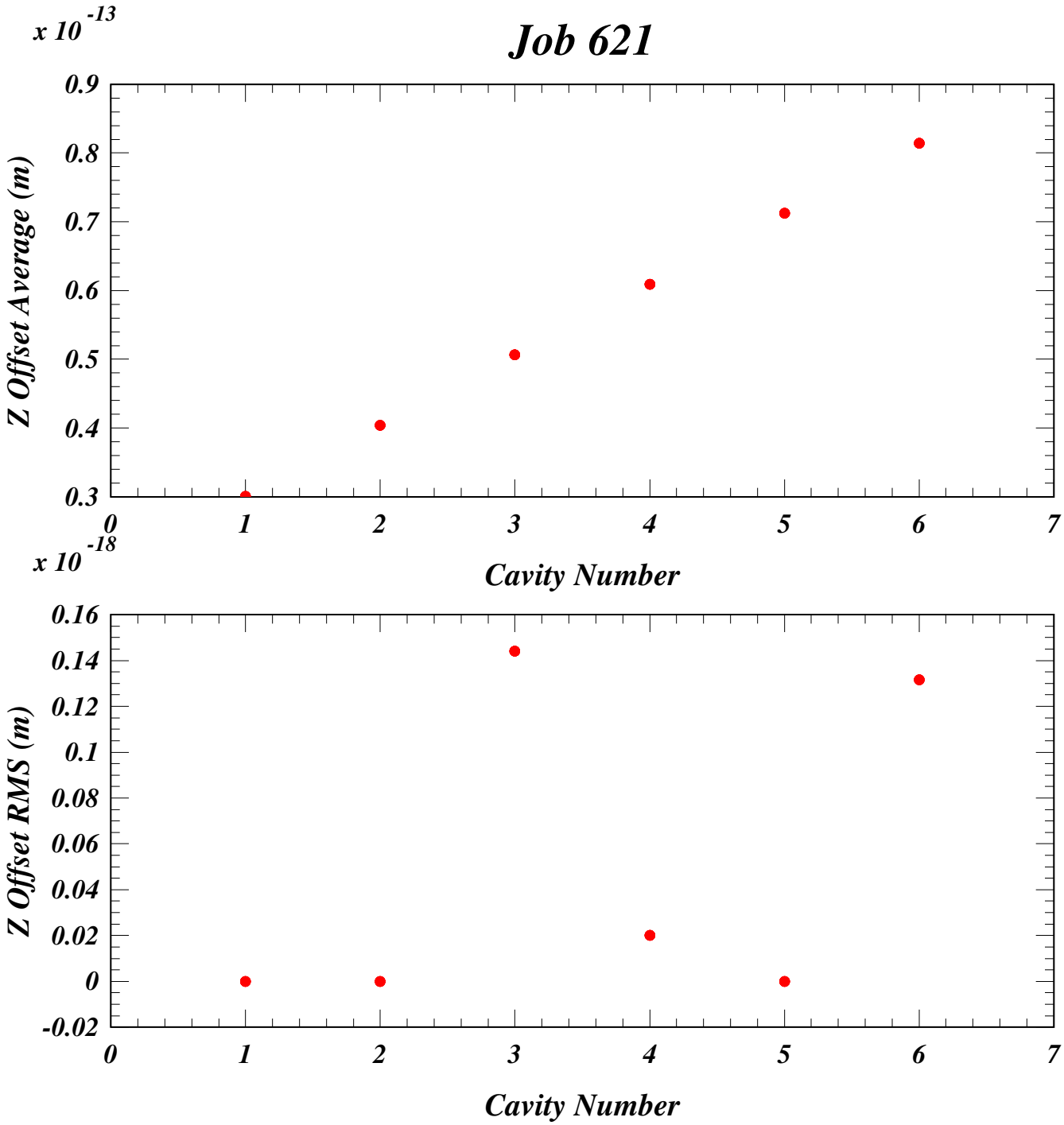

x 10 -4
Orbit X Average (mm)
0.12
0.1
0.08
0.06
0.04
0.02
0
0
1
2
3
4
5
6
7
Cavity Number

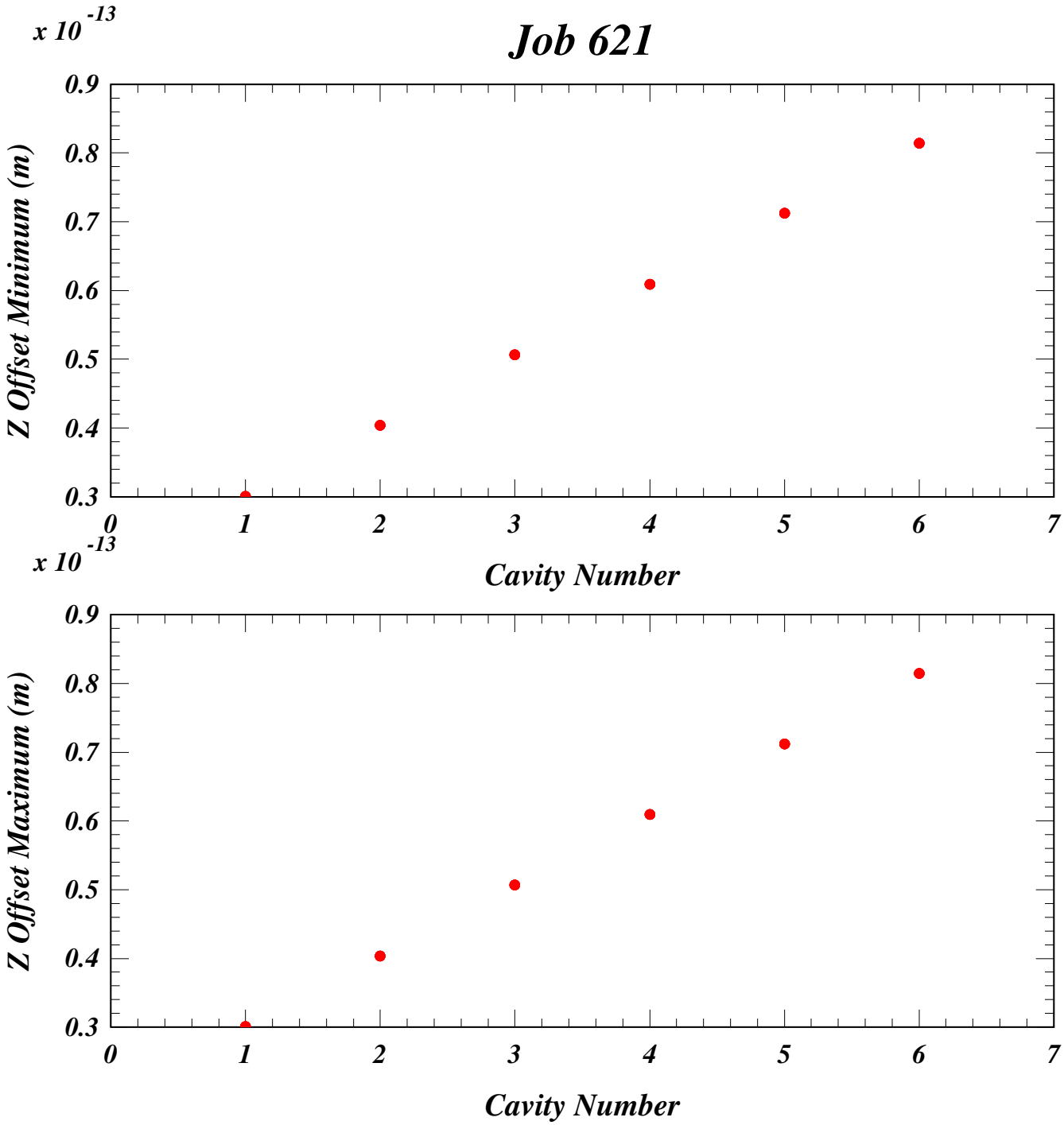

x 10 -11
Orbit X RMS (mm)
0.3
0.25
0.2
0.15
0.1
0.05
0
0
1
2
3
4
5
6
7
Cavity Number

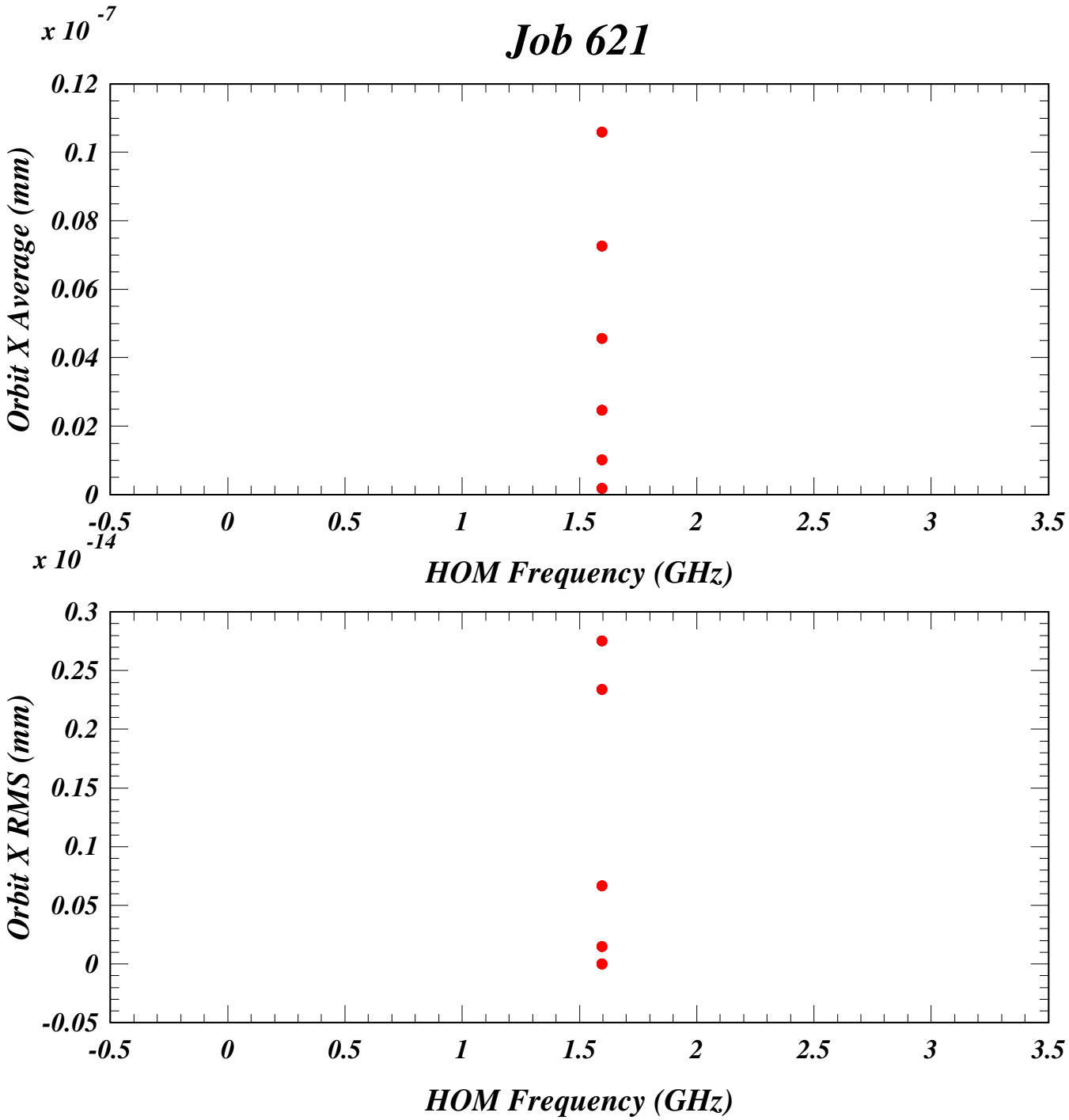

Job 621
x 10 -4
0.12
0.1
0.08
0.06
0.04
0.02
0
Orbit X Minimum (mm)
0
1
2
3
4
5
6
7
Cavity Number
x 10 -4
0.12
0.1
0.08
0.06
0.04
0.02
0
Orbit X Maximum (mm)
0
1
2
3
4
5
6
7
Cavity Number

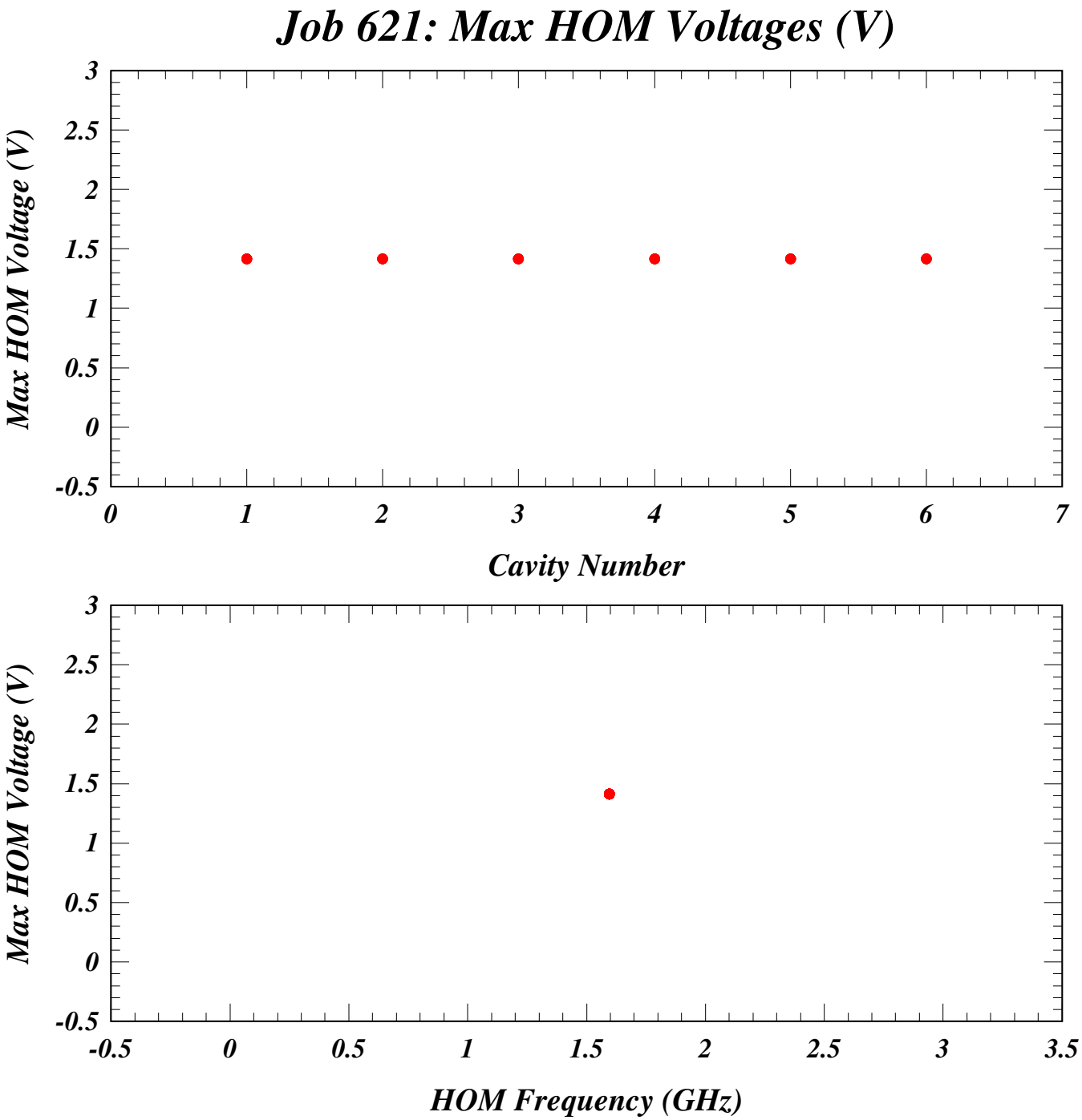

Job 621
x 10 -12
Relative Energy Offset Average (%)
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0
1
2
3
4
5
6
7
Cavity Number
x 10 -18
Relative Energy Offset RMS (%)
0.3
0.275
0.25
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0
1
2
3
4
5
6
7
Cavity Number

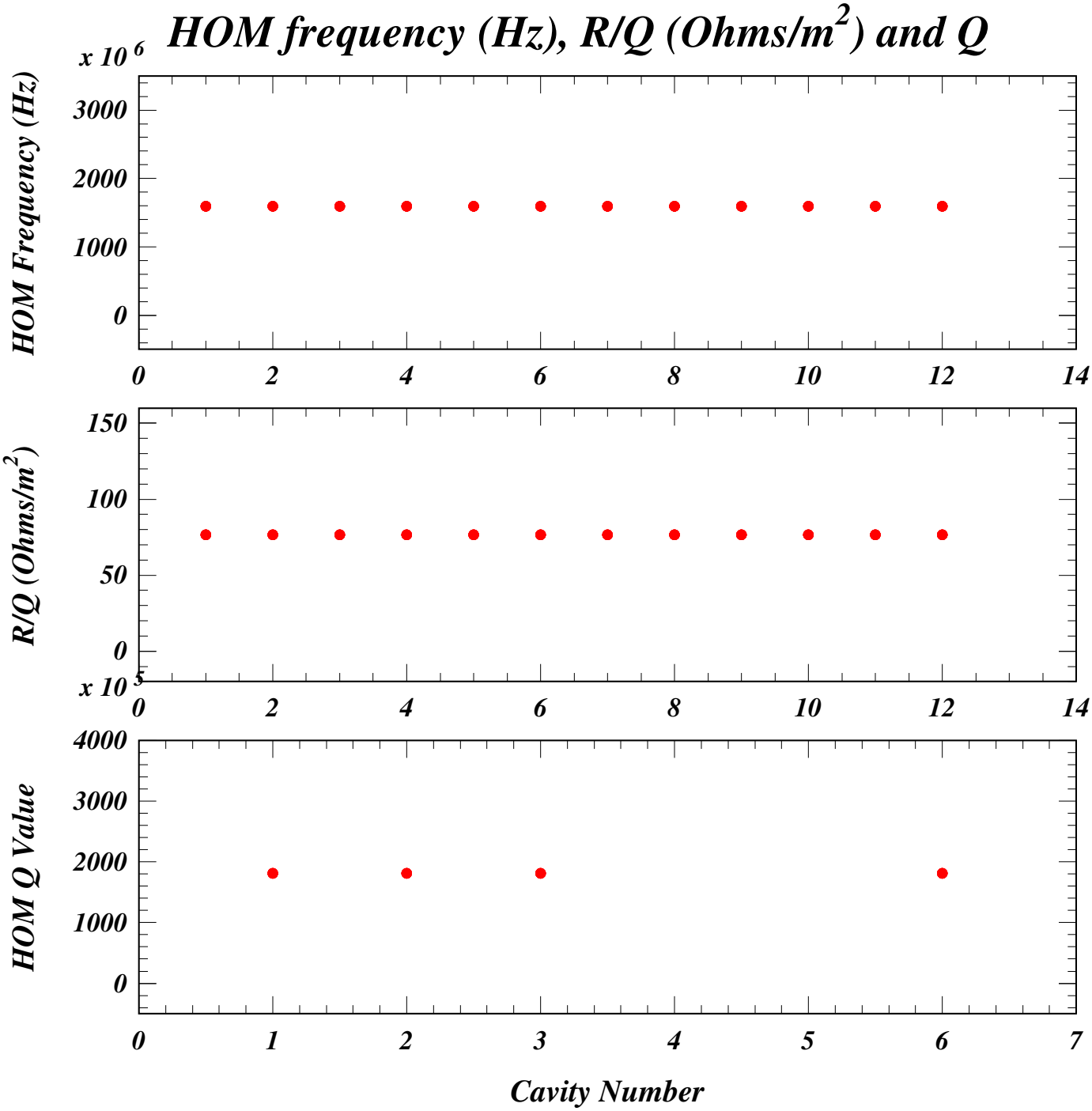

Job 621
x 10 -12
Relative Energy Offset Minimum (%)
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0
1
2
3
4
5
6
7
Cavity Number
x 10 -12
Relative Energy Offset Maximum (%)
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0
1
2
3
4
5
6
7
Cavity Number

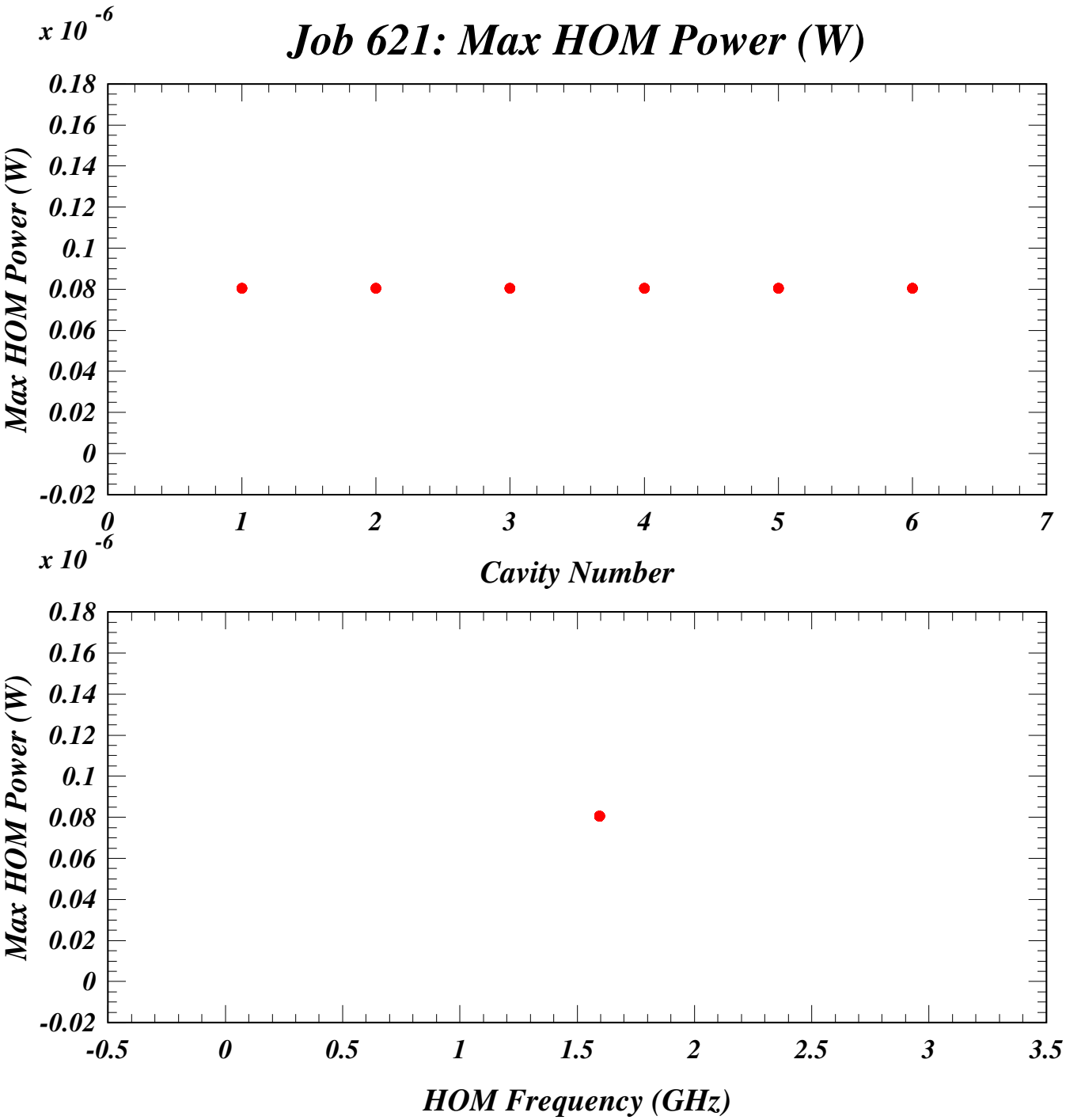

Job 621
x 10 -13
Z Offset Average (m)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0
1
2
3
4
5
6
7
Cavity Number
x 10 -18
Z Offset RMS (m)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
0
1
2
3
4
5
6
7
Cavity Number


Job 621
x 10 -13
Z Offset Minimum (m)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0
1
2
3
4
5
6
7
Cavity Number
x 10 -13
Z Offset Maximum (m)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0
1
2
3
4
5
6
7
Cavity Number


Job 621
x 10 -7
0.12
0.1
0.08
0.06
0.04
0.02
0
Orbit X Average (mm)
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
HOM Frequency (GHz)
x 10 -14
0.3
0.25
0.2
0.15
0.1
0.05
0
-0.05
Orbit X RMS (mm)
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
HOM Frequency (GHz)


Job 621: Max HOM Voltages (V)
Max HOM Voltage (V)
3
2.5
2
1.5
1
0.5
0
-0.5
0
1
2
3
4
5
6
7
Cavity Number
Max HOM Voltage (V)
3
2.5
2
1.5
1
0.5
0
-0.5
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
HOM Frequency (GHz)


HOM frequency (Hz), R/Q (Ohms/m^2) and Q
x 10 6
HOM Frequency (Hz)
3000
2000
1000
0
0
2
4
6
8
10
12
14
150
100
50
0
R/Q (Ohms/m^2)
x 10 5
0
2
4
6
8
10
12
14
4000
3000
2000
1000
0
HOM Q Value
0
1
2
3
4
5
6
7
Cavity Number


Job 621: Max HOM Power (W)
x 10 -6
Max HOM Power (W)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
0
1
2
3
4
5
6
7
Cavity Number
x 10 -6
Max HOM Power (W)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
HOM Frequency (GHz)