



Above 6GHz measurement data



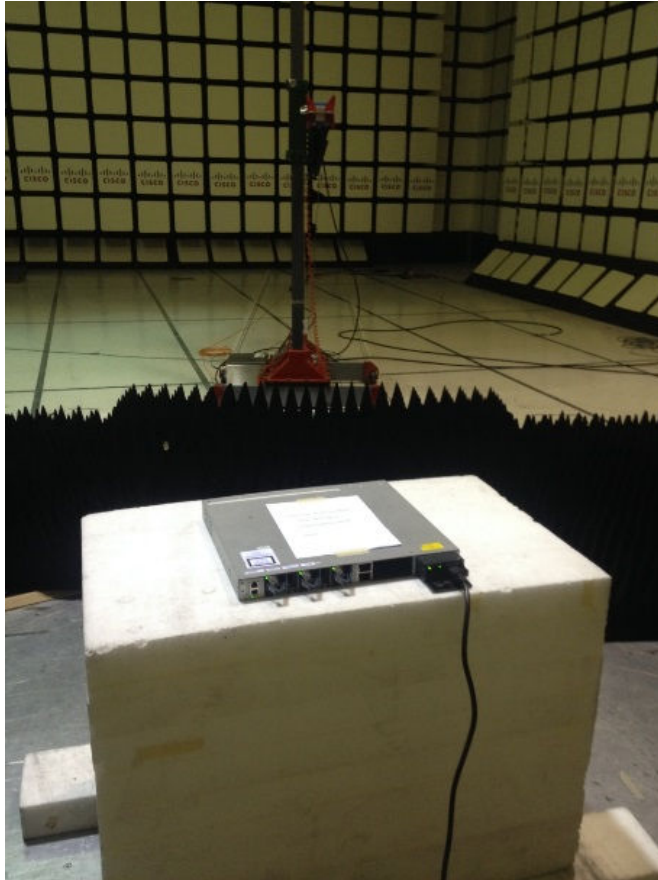
Andy Griffin, Cisco Systems, Rev 1.2, 14 Jul 2018

Details

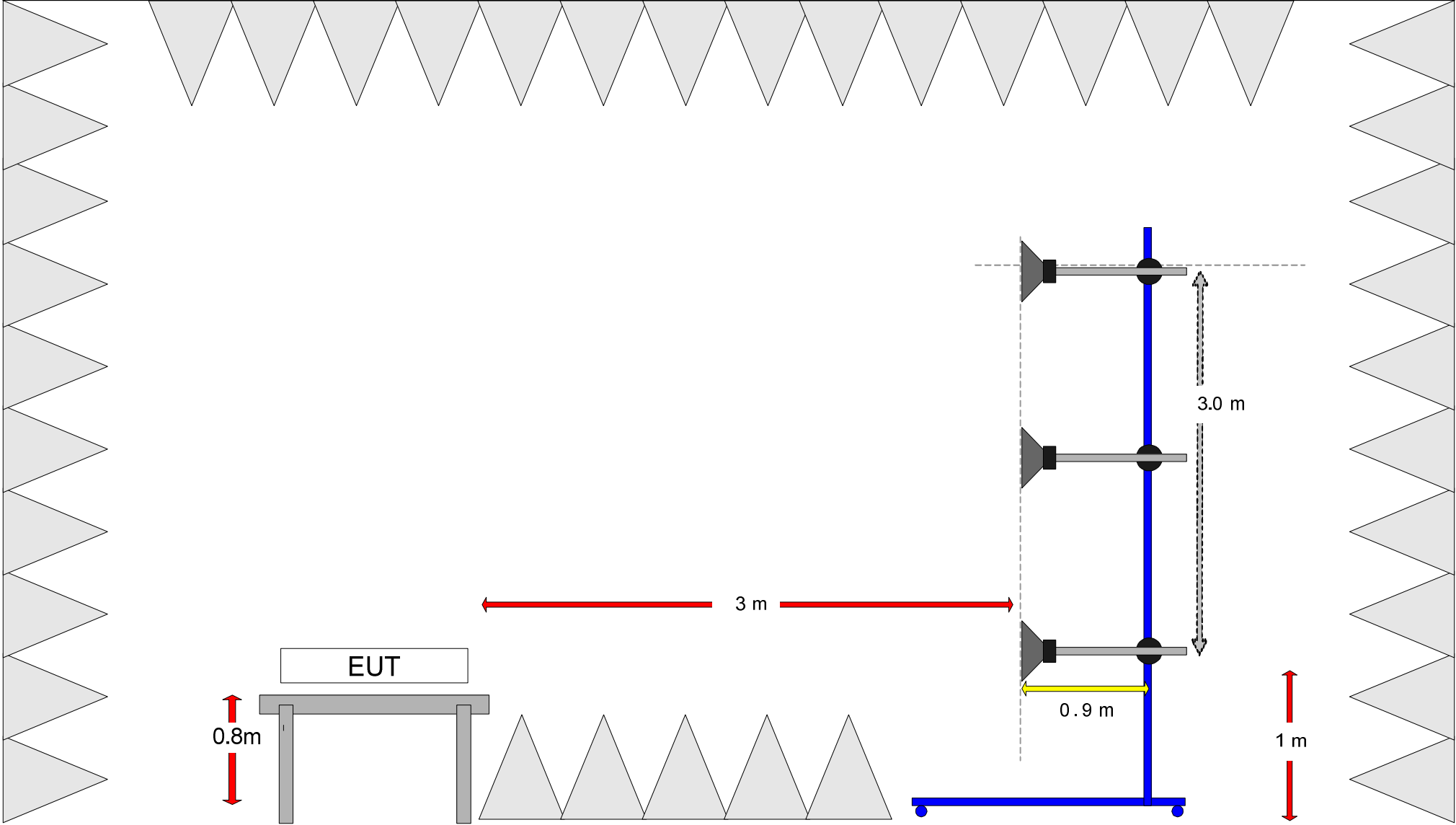
Test

Test an EUT and see the difference between planer scanning and one particular aiming set up. Focusing on the range from 6GHz-18GHz.

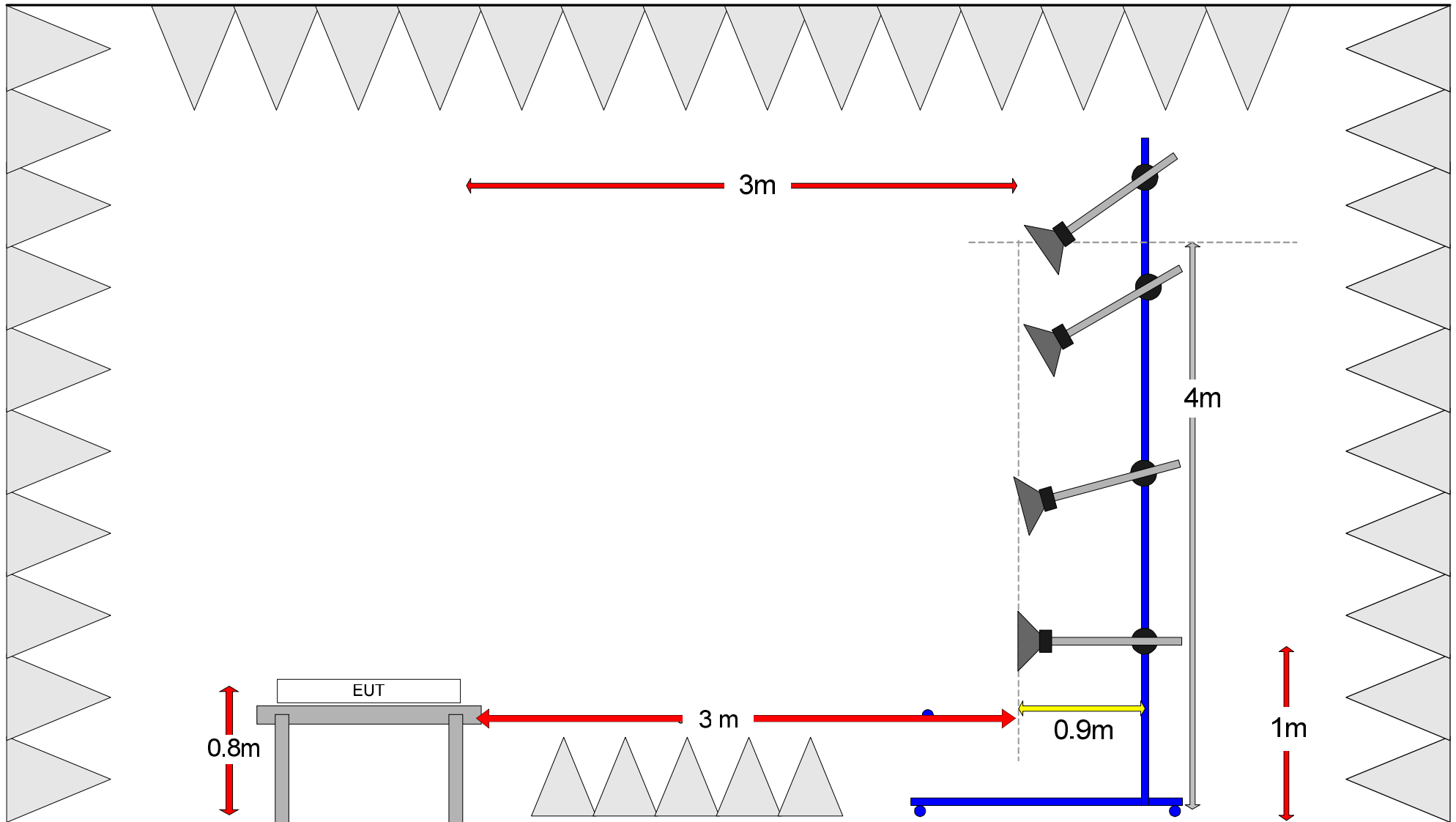
EUT setup



Planer Scan from 1m-4m



Bore-sight Scan from 1m-4m



Process

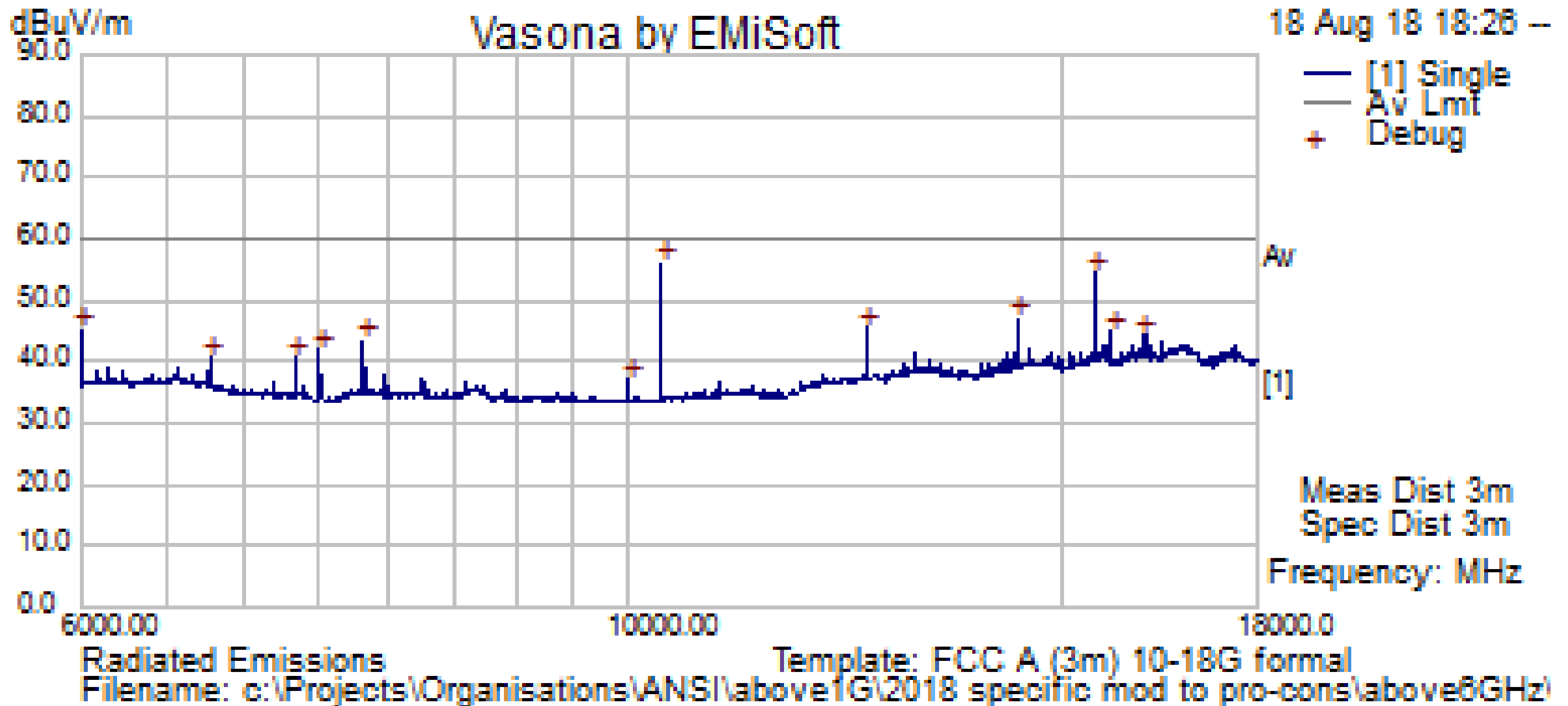
Highlighting major emissions from a prescan

Set video bandwidth lower than typical to get improvements in noise floor. During tower/turntable rotation, set video bandwidth to 500 Hz, to remove impacts of modulation.

1. Select frequency, set to zero span.
2. EUT Rotate thru 360, go back to worst case.
3. Changing antenna height (scanned) from 1 m to 4 m.
 - a. Bore-sight
 - b. Planer scanner

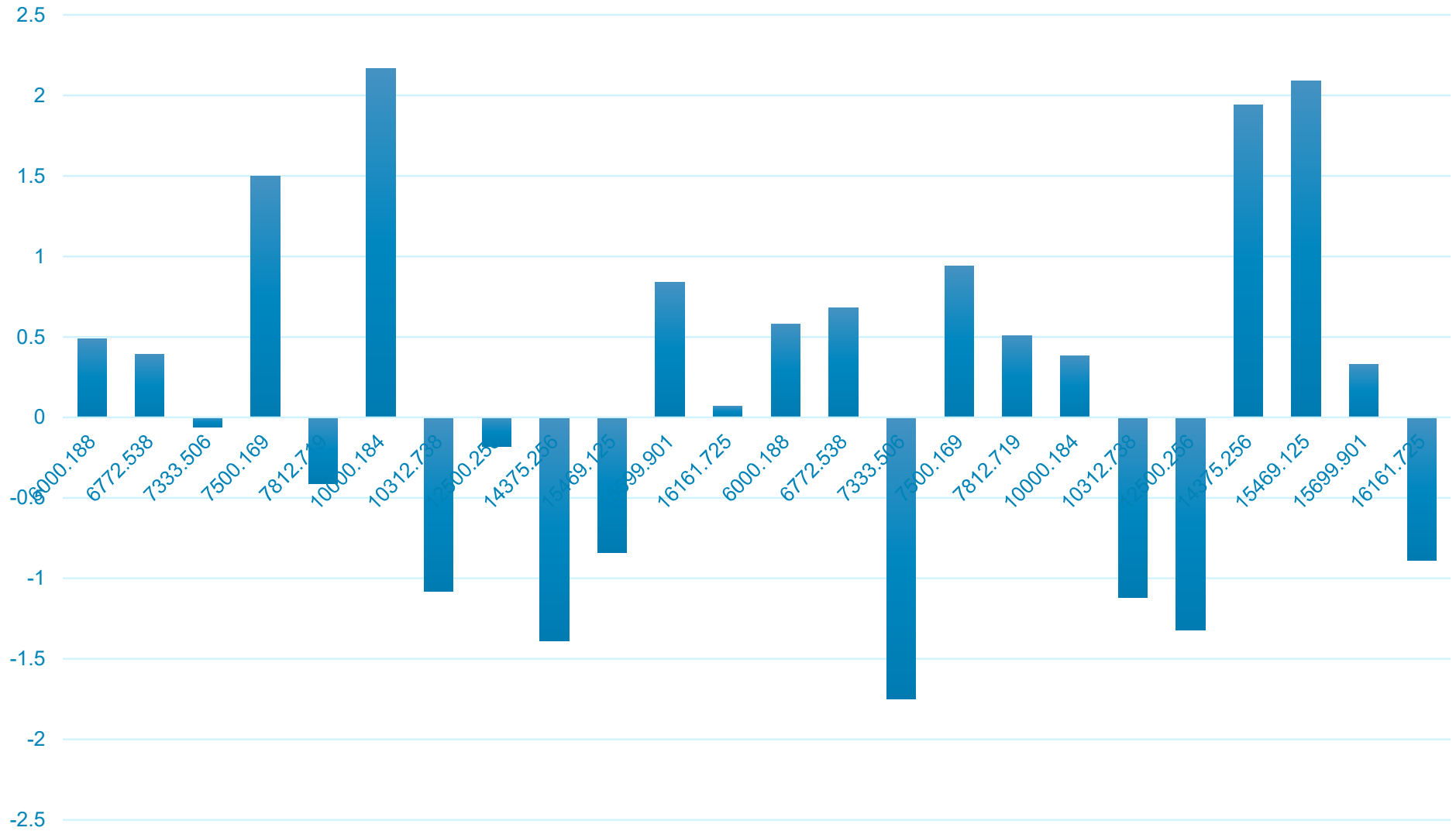
Both tower scans from the same turntable azimuth
4. The results, represent the difference in amplitude to that recorded at 1m.

EUT 1, Prescan



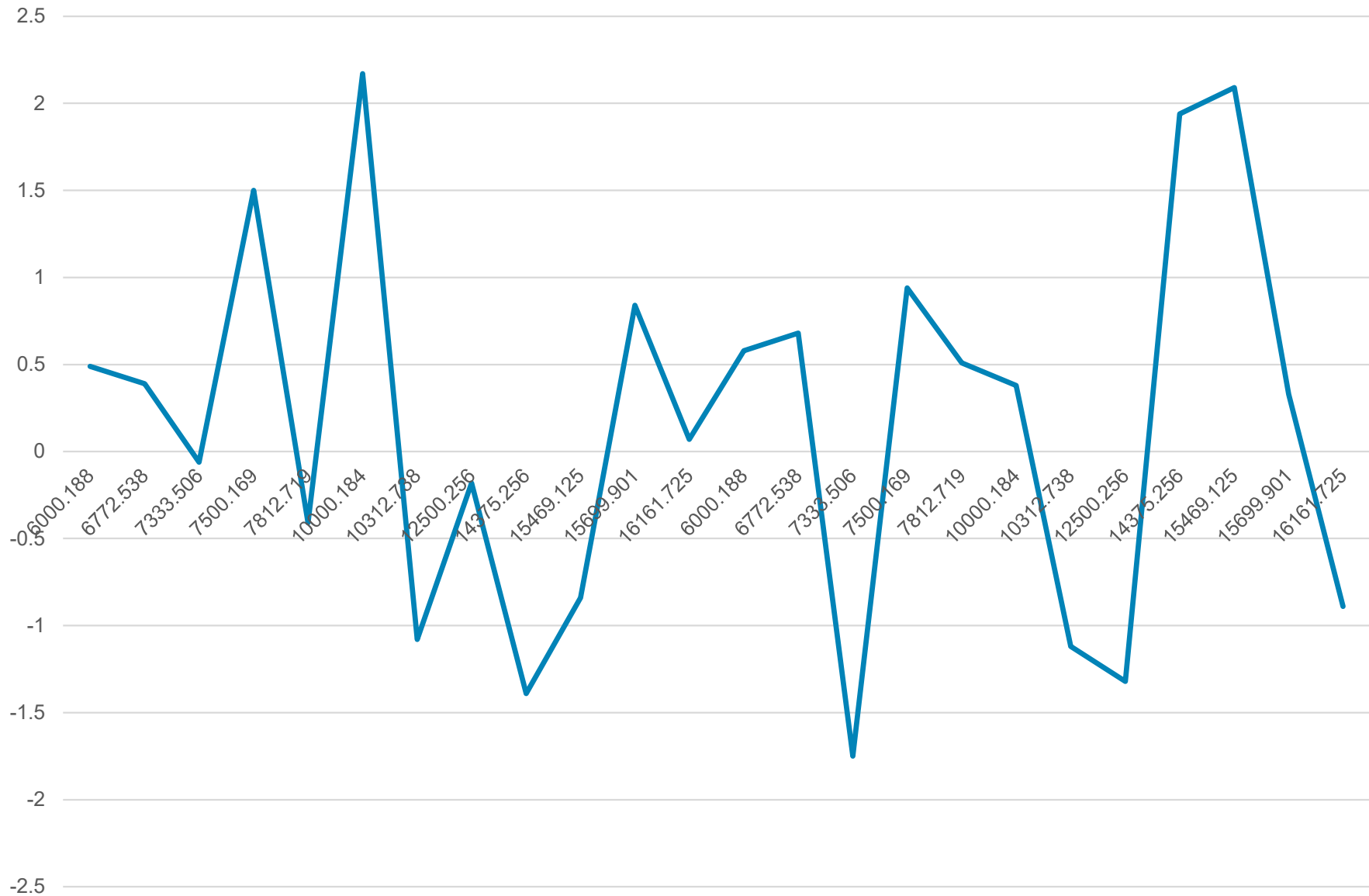
EUT 1, Results

Aiming v Linear



EUT1, Results

Aim v Linear



EUT2, Results, change of amplitude w/height

