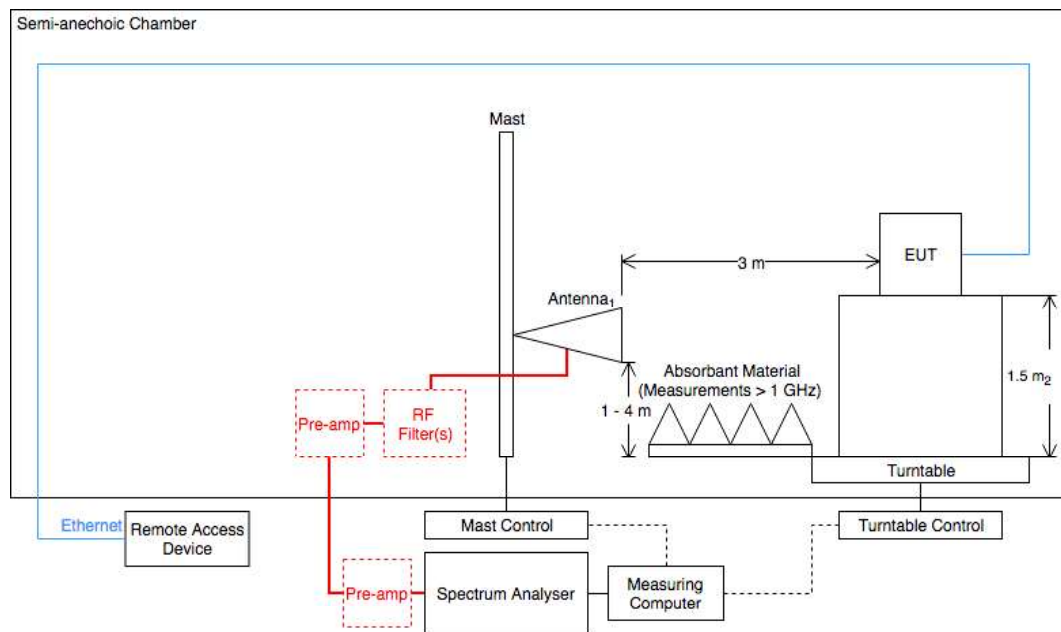


1.2 Product Information

1.2.1 Technical Description

The MiX 46MC-4G is a fleet product that incorporates the latest market trends. It consists mainly of an on-board computer, a LTE CAT M1 modem with 2G fallback, a GNSS, an accelerometer, Bluetooth Low Energy, I/O, 2 x CAN, 2 x RS232, 4 x positive drives and 434 / 915 MHz short range transceiver.

1.2.2 Test Setup Diagram(s)



- ¹ Antenna is boresighted for measurements > 1 GHz.
- ² Height from the EUT to ground is 0.8 m for measurements < 1 GHz.

1.2.3 EUT Configuration and Rationale for Radiated Spurious Emissions

The EUT was placed on a non-conducting platform in a manner typical of a normal installation. The EUT would be fitted in multiple planes, pre-scans were performed with the EUT orientated in X, Y and Z planes with reference to the ground plane.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4

1.3 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

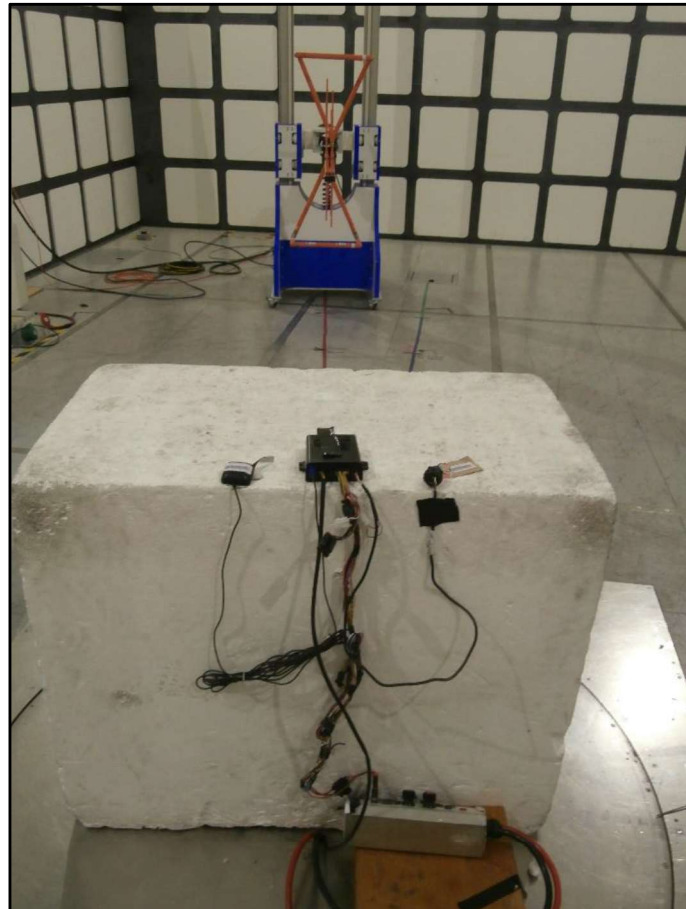


Figure 62 - Test Setup – 30 MHz to 1 GHz – X Orientation

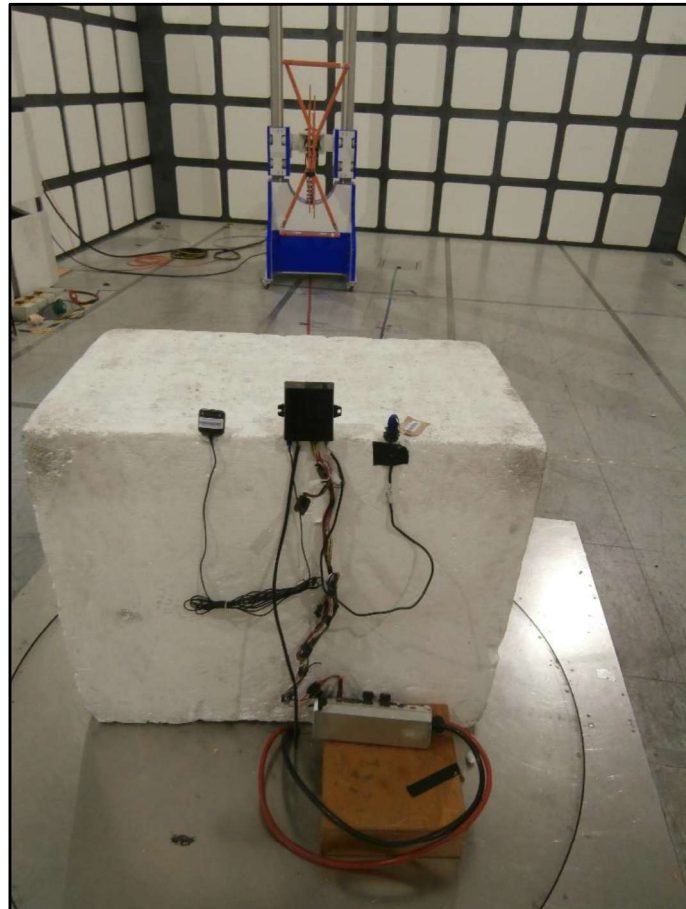


Figure 63 - Test Setup - 30 MHz to 1 GHz – Y Orientation

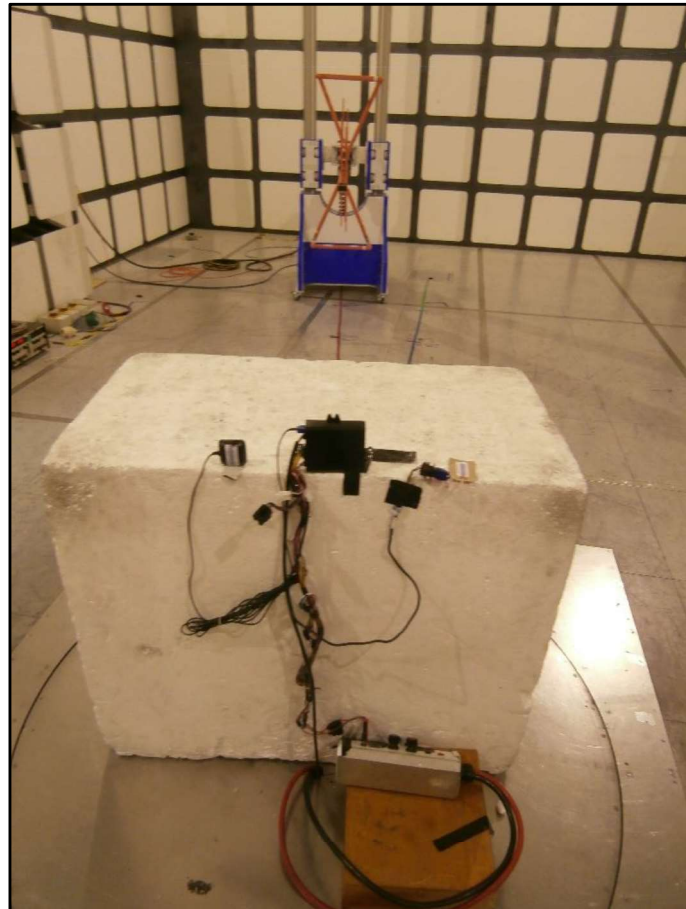


Figure 64 - Test Setup - 30 MHz to 1 GHz – Z Orientation

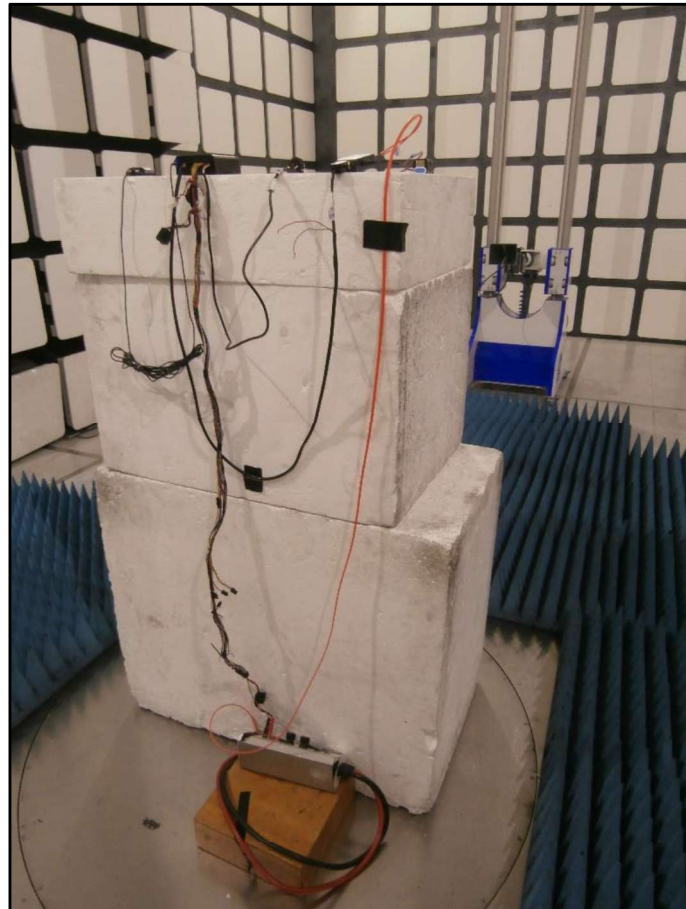


Figure 65 - Test Setup - 1 GHz to 10 GHz – X Orientation

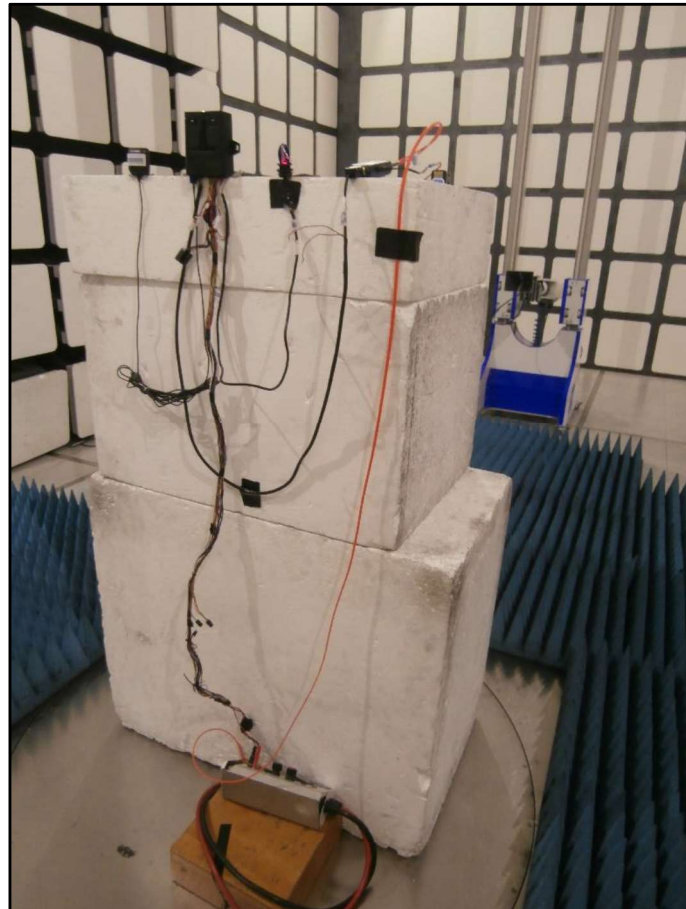


Figure 66 - Test Setup - 1 GHz to 10 GHz – Y Orientation

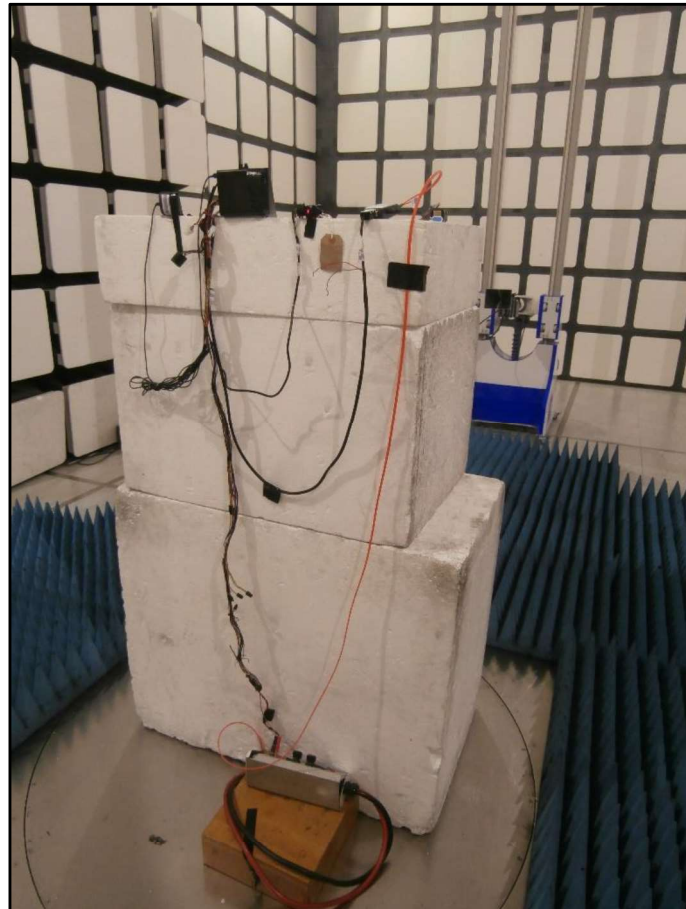


Figure 67 - Test Setup - 1 GHz to 10 GHz – Z Orientation

FCC 47 CFR Part 15, Limit Clause 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)