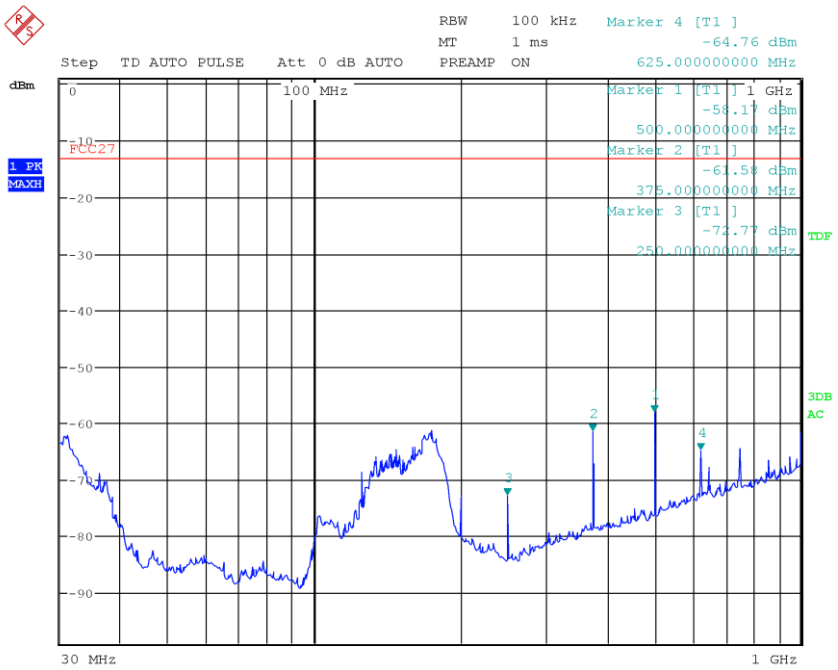
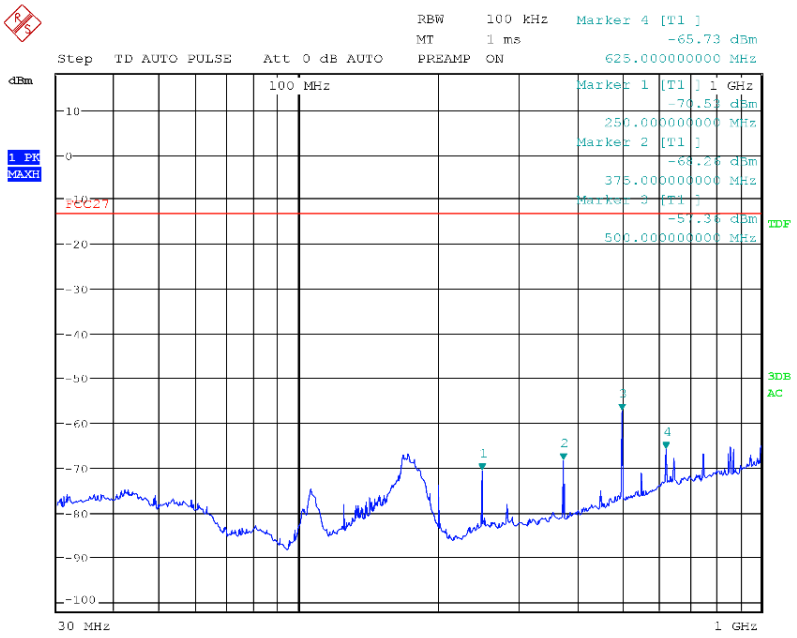
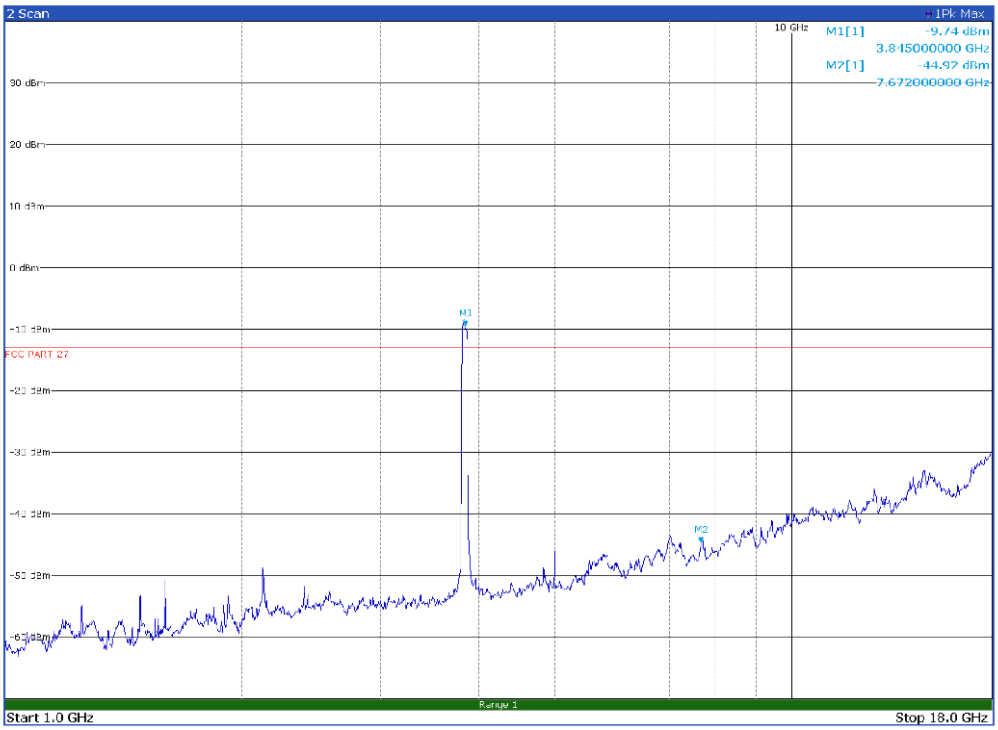


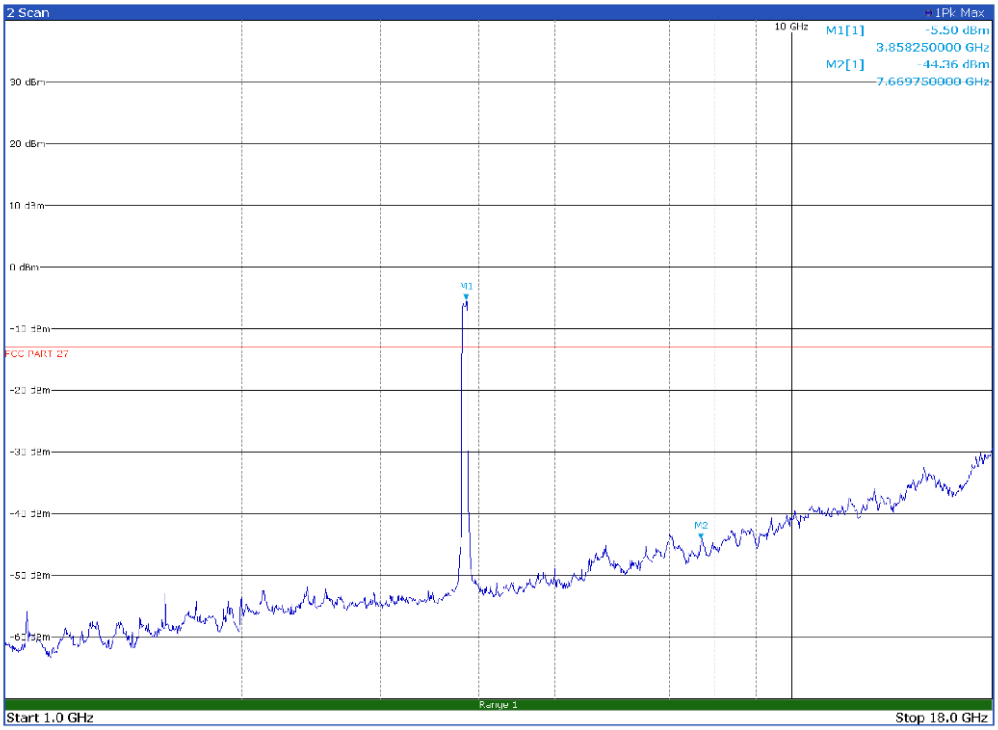
Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, mid channel, TM1.1 modulation



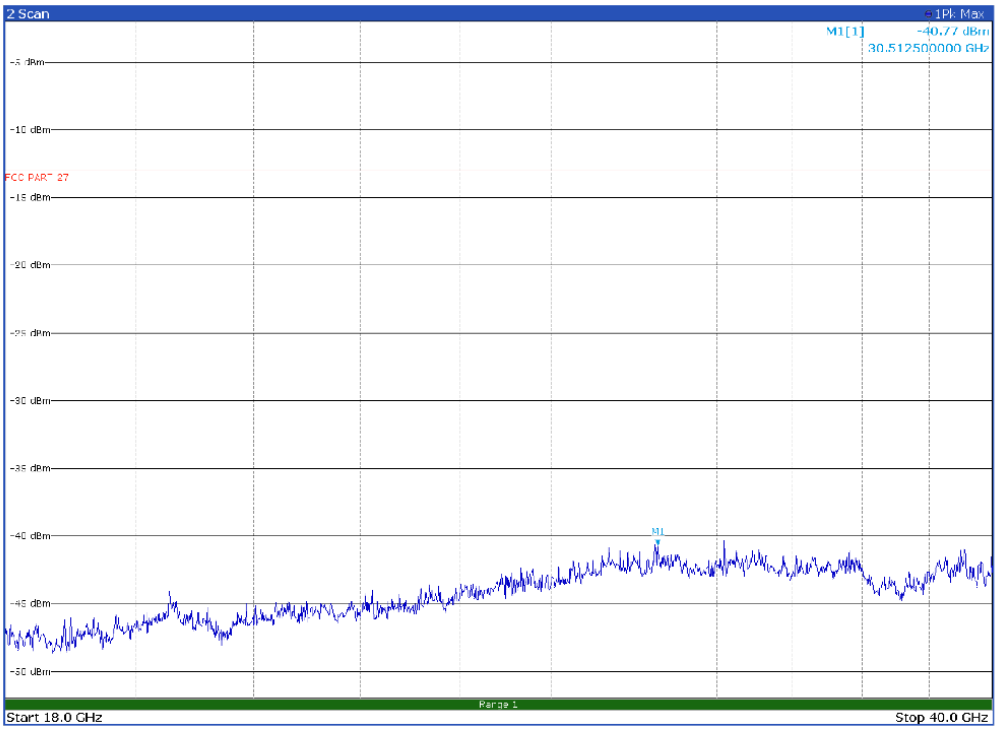
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, mid channel, TM1.1 modulation



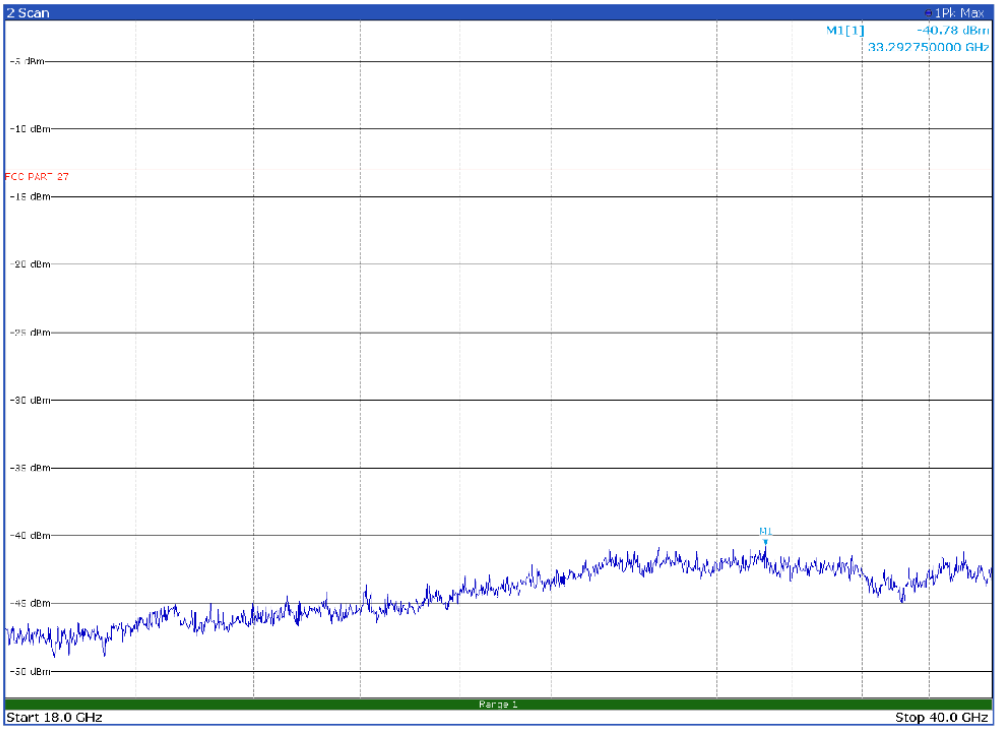
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, mid channel, TM1.1 modulation



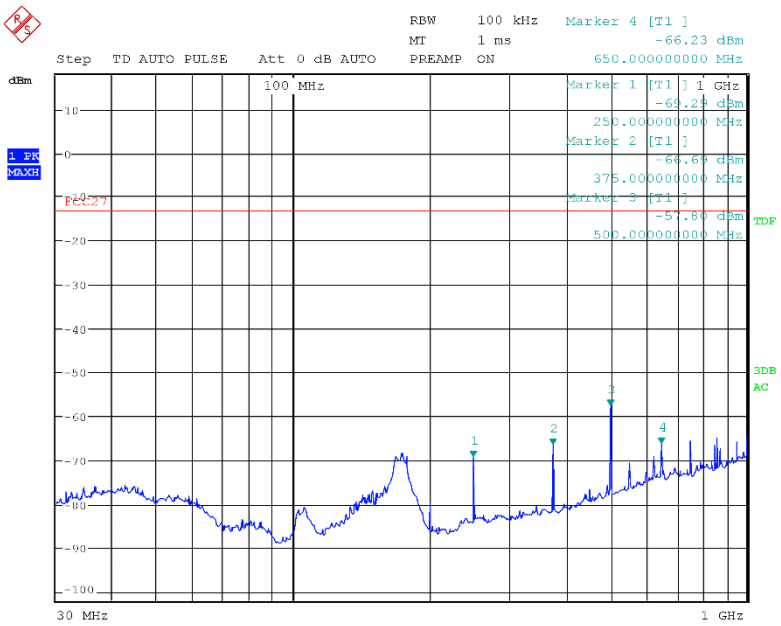
Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, mid channel, TM1.1 modulation



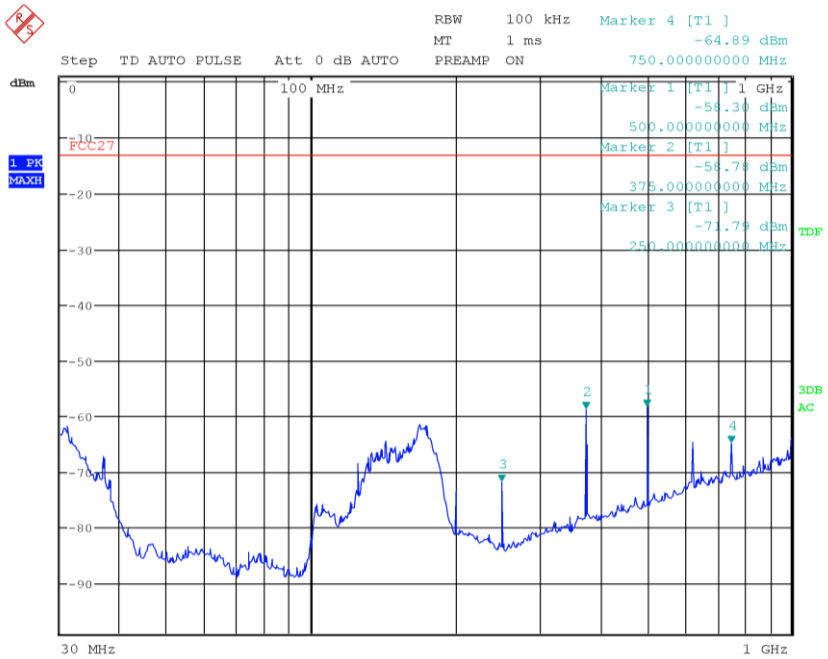
Radiated emissions spectral plot (18 GHz - 40 GHz), horizontal polarization, MID channel, TM1.1 modulation



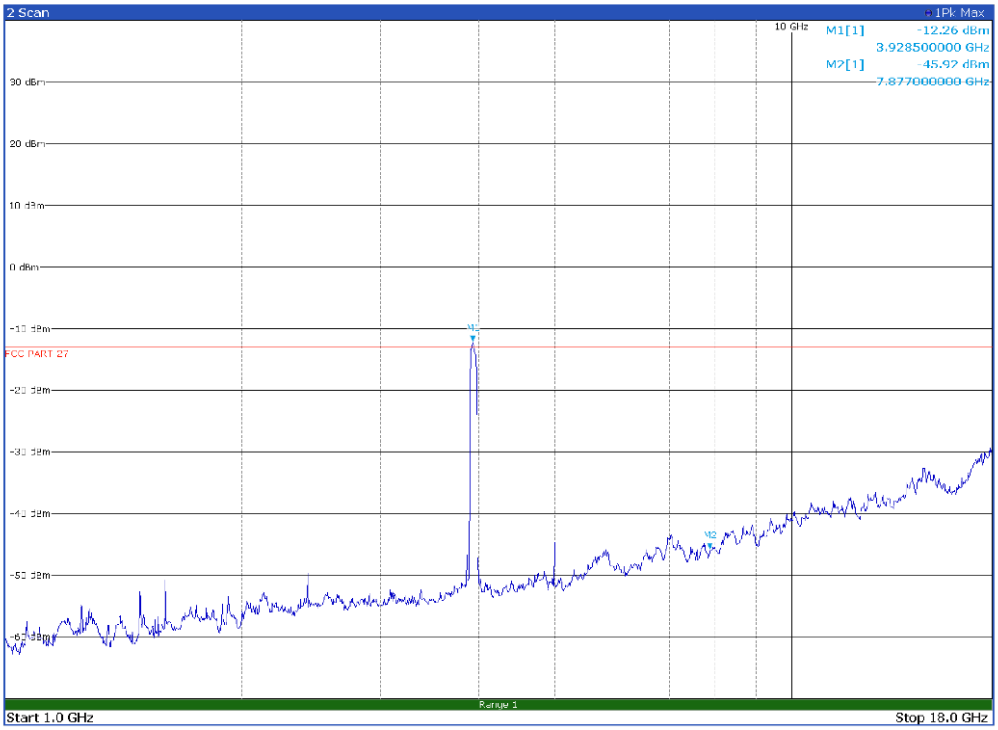
Radiated emissions spectral plot (18 GHz - 40 GHz), vertical polarization, MID channel, TM1.1 modulation



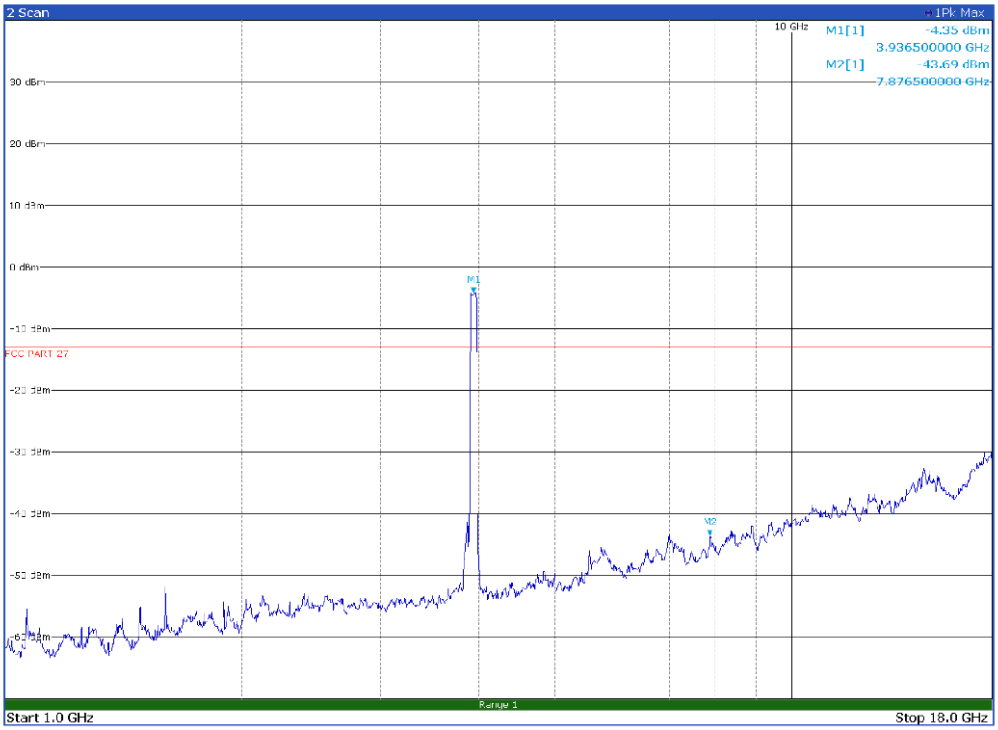
Radiated emissions spectral plot (30 MHz – 1 GHz), horizontal polarization, high channel, TM1.1 modulation



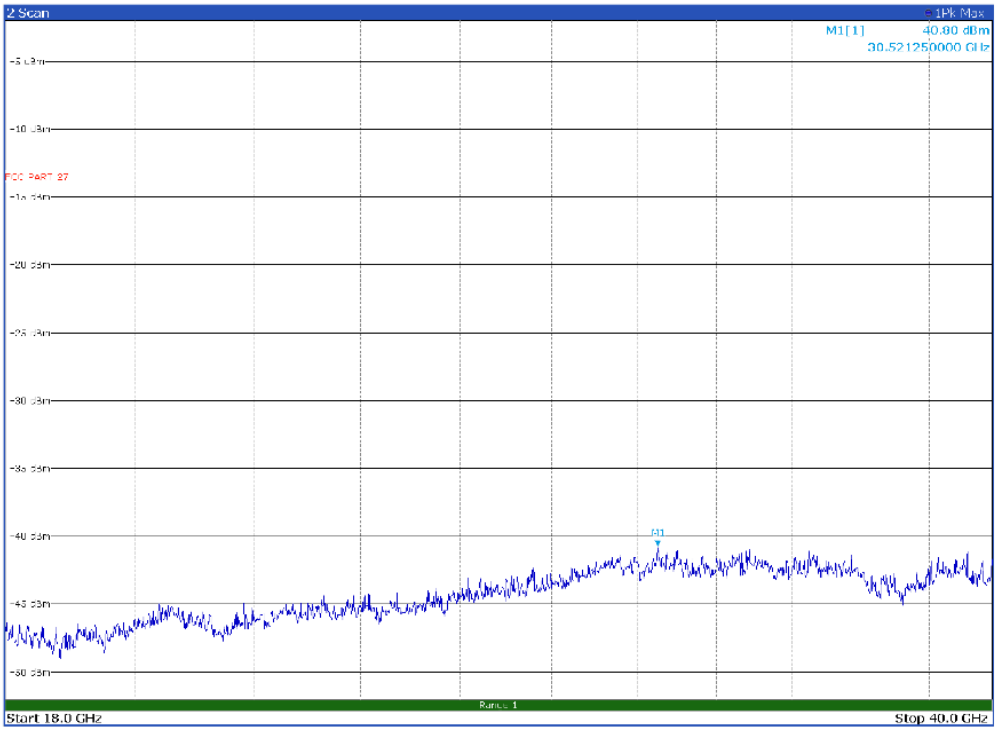
Radiated emissions spectral plot (30 MHz – 1 GHz), vertical polarization, high channel, TM1.1 modulation



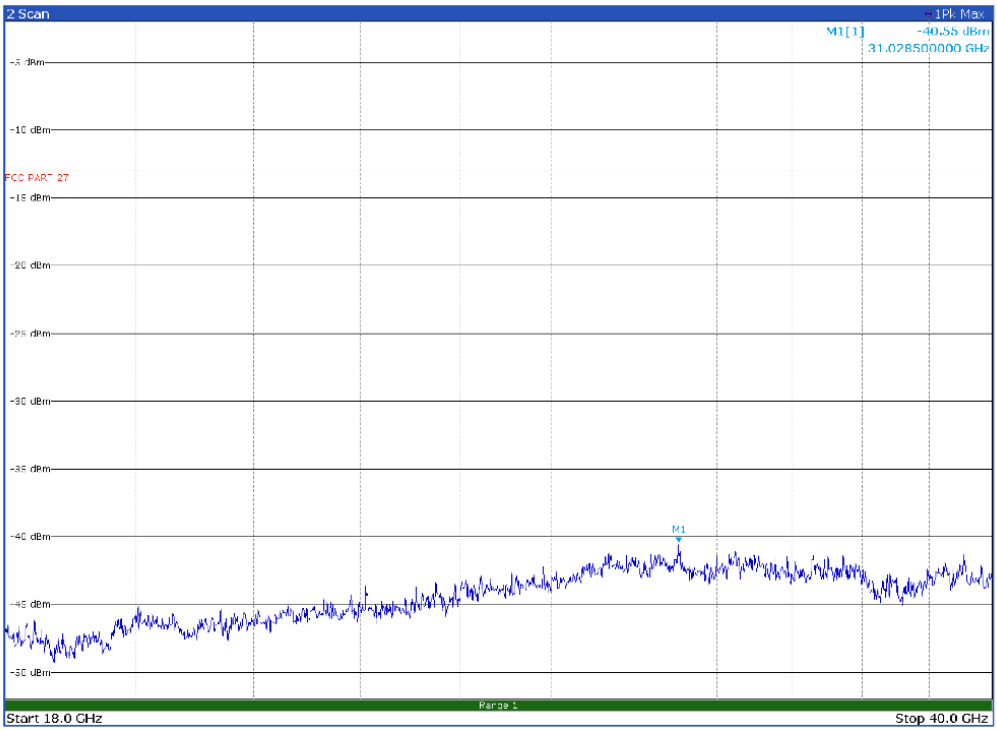
Radiated emissions spectral plot (1 GHz - 18 GHz), horizontal polarization, high channel, TM1.1 modulation



Radiated emissions spectral plot (1 GHz - 18 GHz), vertical polarization, high channel, TM1.1 modulation



Radiated emissions spectral plot (18 GHz – 40 GHz), horizontal polarization, high channel, TM1.1 modulation



Radiated emissions spectral plot (18 GHz – 40 GHz), vertical polarization, high channel, TM1.1 modulation

8.7 FCC 27.54 Frequency Stability

8.7.1 Definitions and limits

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

8.7.2 Test summary

Test date	August 23, 2024	Temperature	21 °C
Test engineer	D. Guarnone	Air pressure	1005 mbar
Verdict	Pass	Relative humidity	64%

8.7.3 Observations, settings and special notes

The EUT was configured to continuously transmit an un-modulated continuous wave signal. The frequency measurement was performed using the marker-signal count functionality of the spectrum analyzer. The only requirement from Part 27 is that the carrier stays within the allocated band.
The testing follows ANSI C63.26, § 5.6.4.

8.7.4 Test data

Band n77:

Table 8.7-1: Frequency stability results, band n77

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm
+50 °C, Nominal	3839993510.0	4800.0	1.25
+40 °C, Nominal	3839993010.0	4300.0	1.12
+30 °C, Nominal	3839988710.0	0.0	0.00
+20 °C, +15%	3839988810.0	100.0	0.03
+20 °C, Nominal	3839988710.0	Reference	Reference
+20 °C, -15%	3839988610.0	-100.0	-0.03
+10 °C, Nominal	3839988910.0	200.0	0.05
0 °C, Nominal	3839988610.0	-100.0	-0.03
-10 °C, Nominal	3839993010.0	4300.0	1.12
-20 °C, Nominal	3839992310.0	3600.0	0.94
-30 °C, Nominal	3839992910.0	4200.0	1.09

Section 9. Block diagrams of test setups

9.1 Radiated emissions set-up

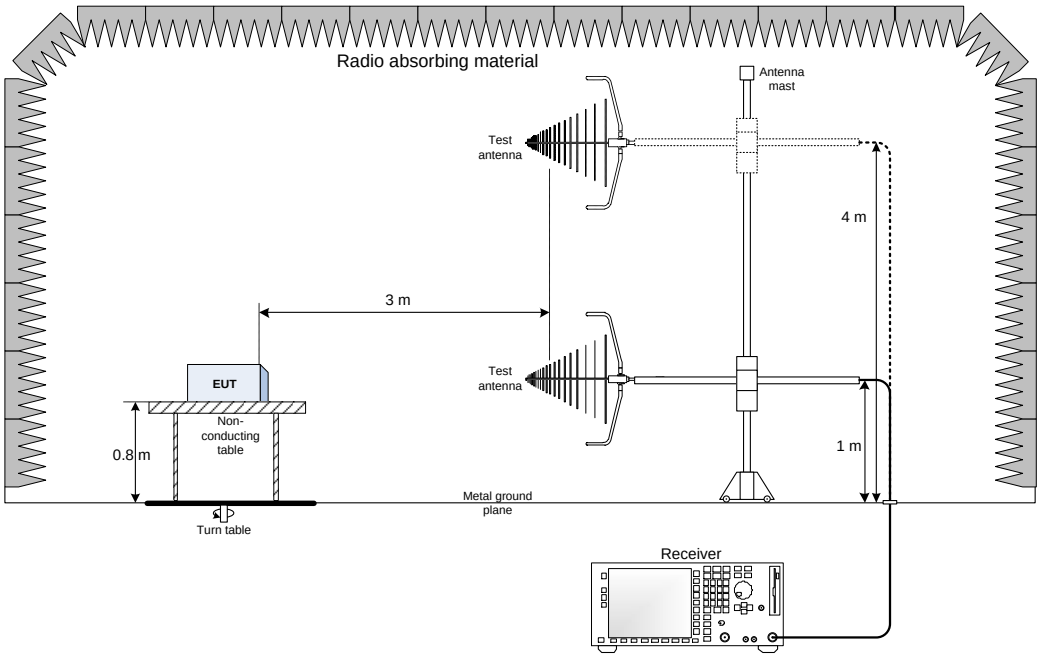


Figure 9.1-1: Below 1 GHz setup

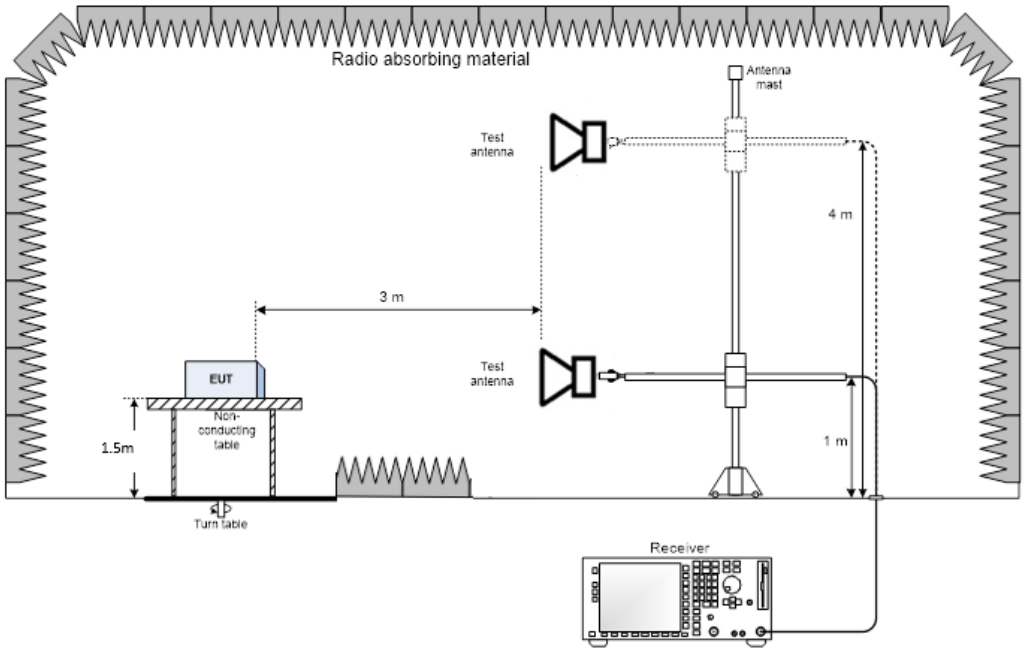


Figure 9.1-2: Above 1GHz setup