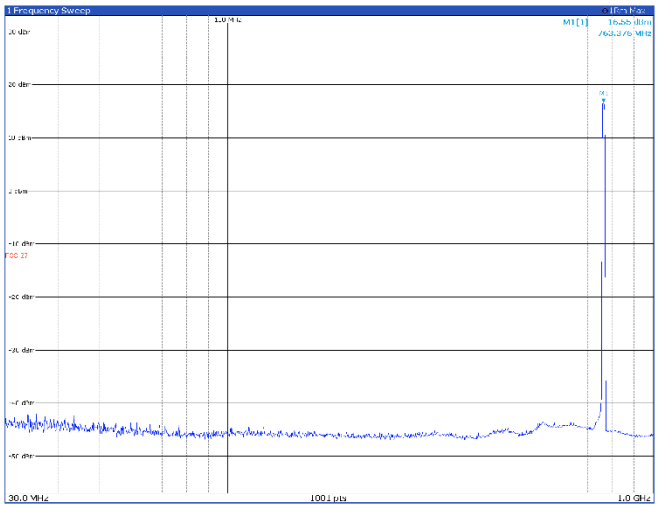
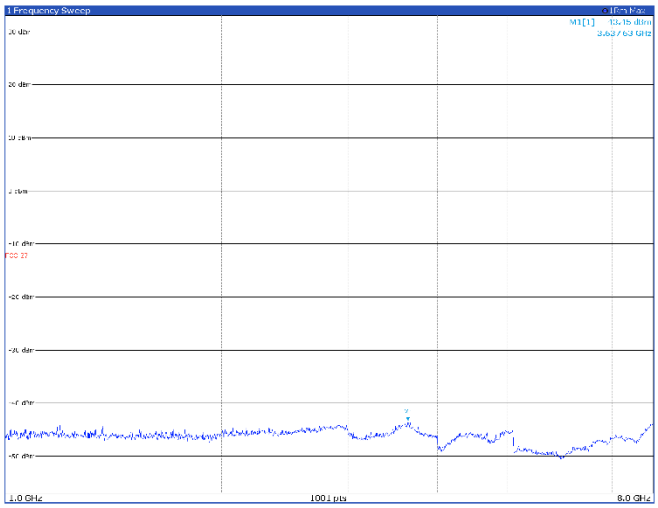
Band n14 – conducted emissions Antenna port 1 **10 MHz**

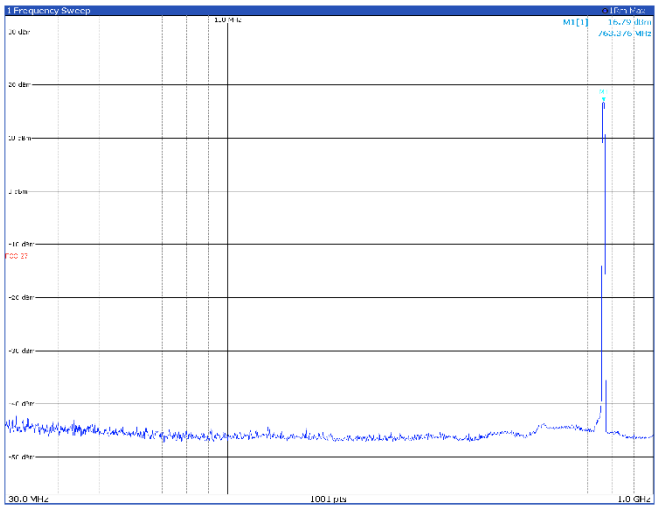
TM1.1, 10 MHz, mid channel

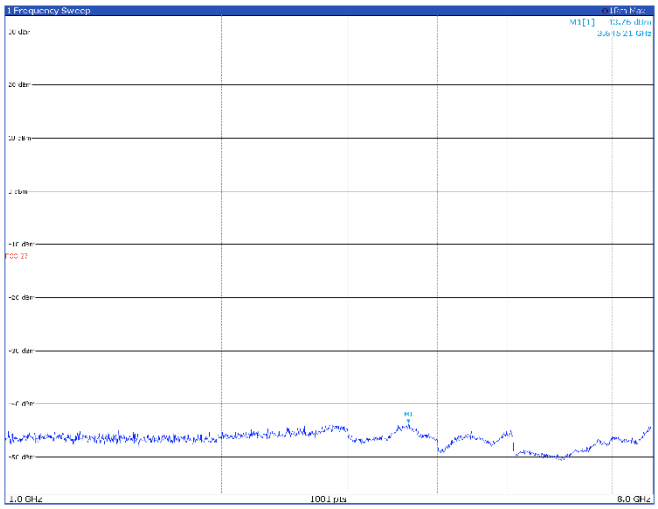




Limit exceeded by the carrier

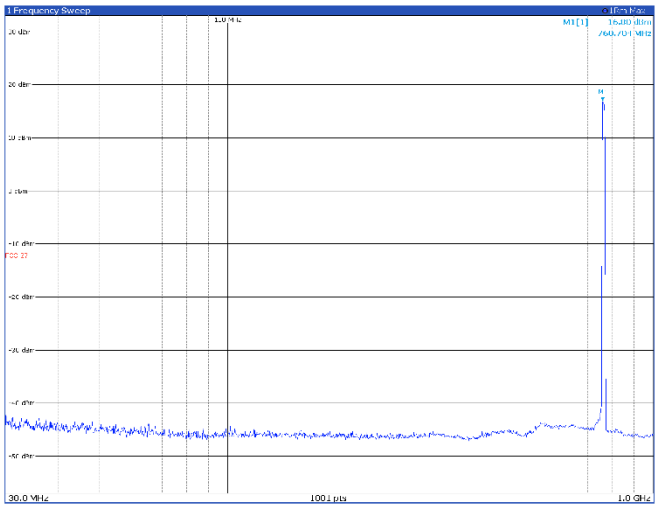
TM3p1, 10 MHz, mid channel

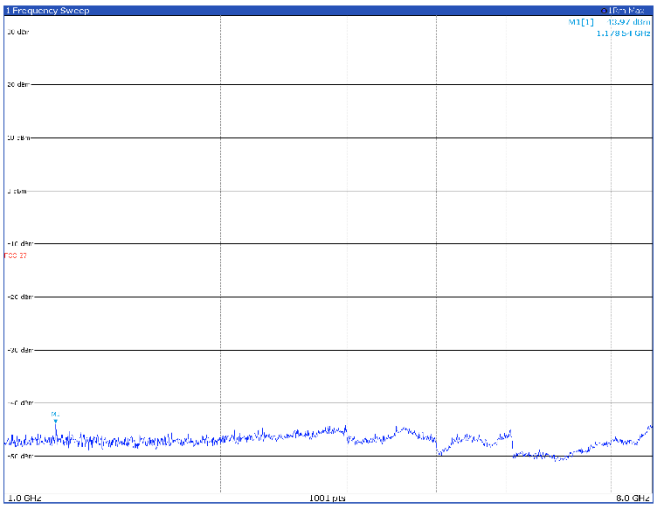




Limit exceeded by the carrier

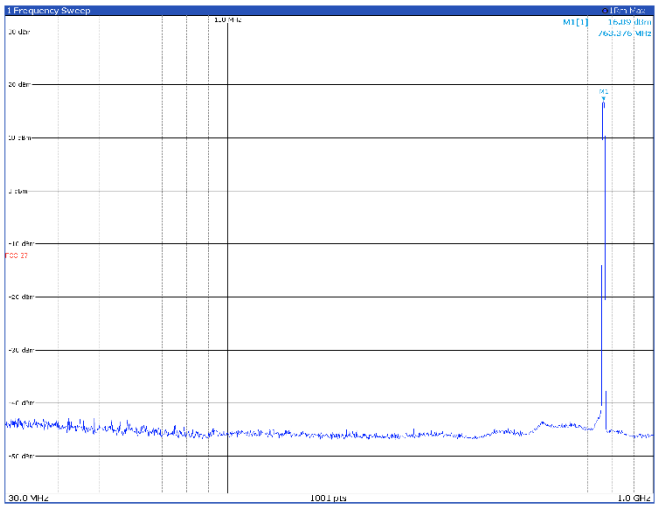
TM3p1a, 10 MHz, mid channel

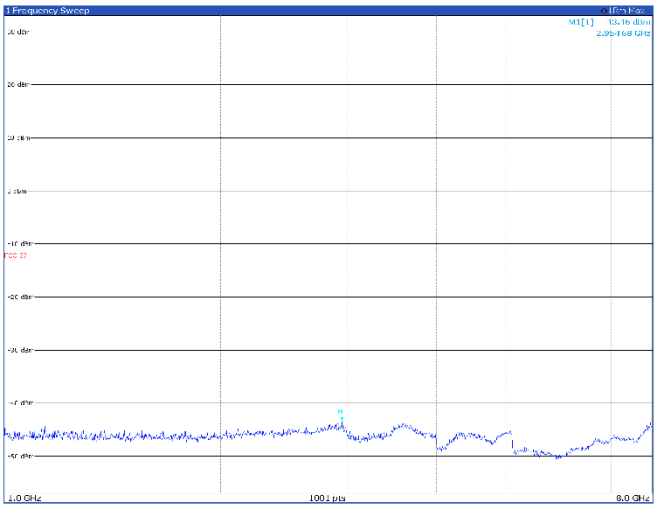




Limit exceeded by the carrier

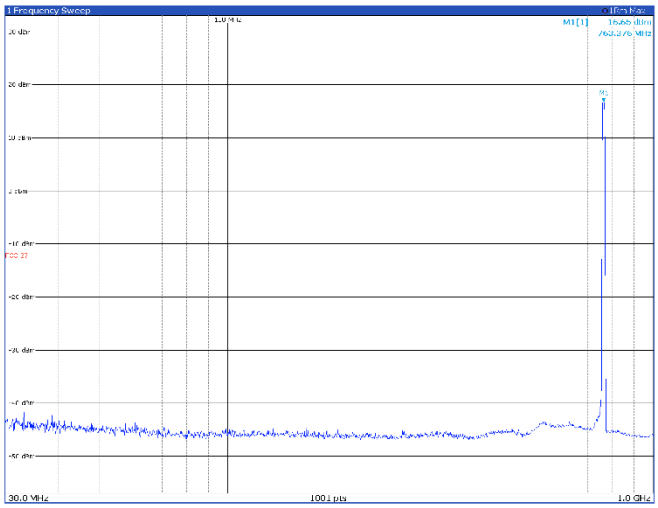
TM3p3, 10 MHz, mid channel

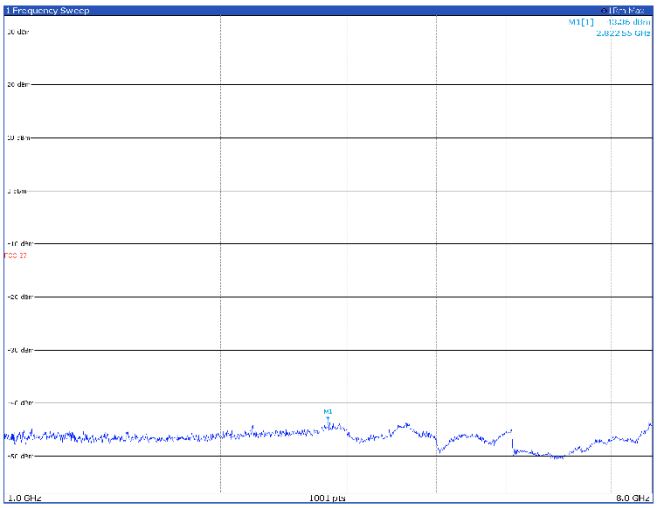




Limit exceeded by the carrier

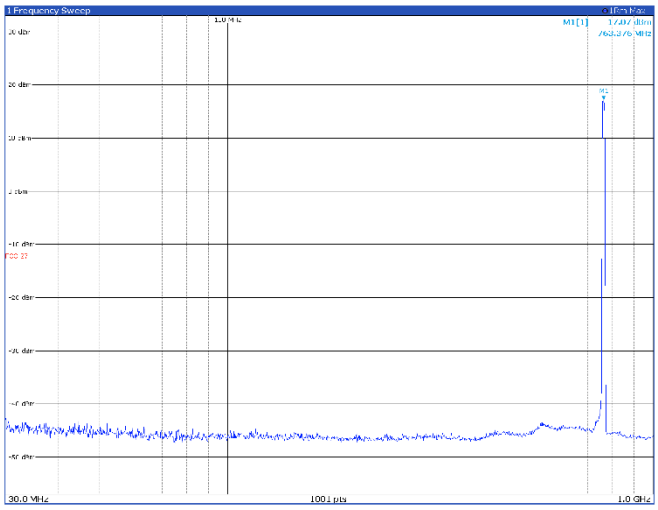
TM1.1, 10 MHz, mid channel

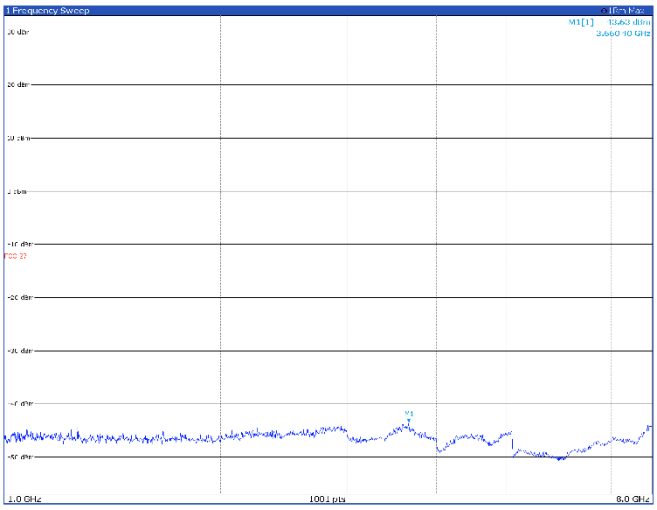




Limit exceeded by the carrier

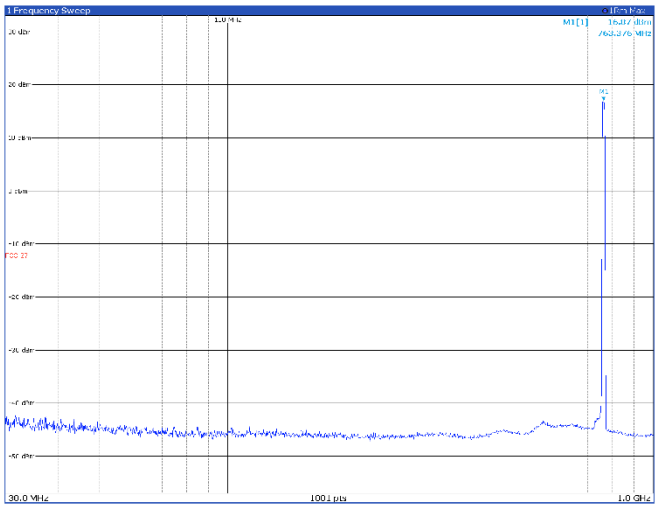
TM3p1, 10 MHz, mid channel

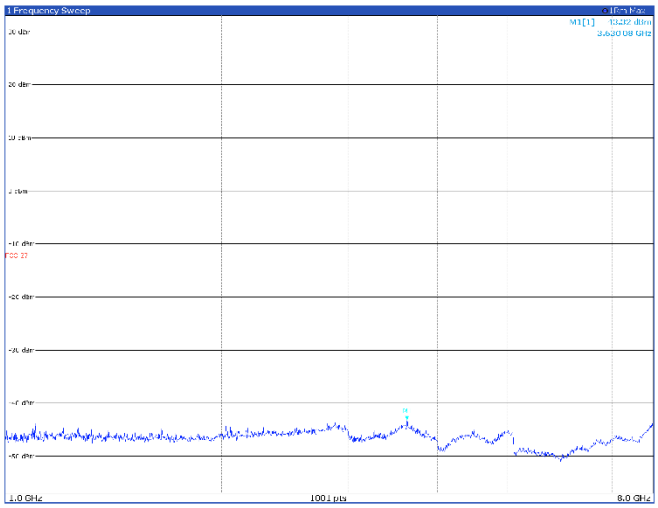




Limit exceeded by the carrier

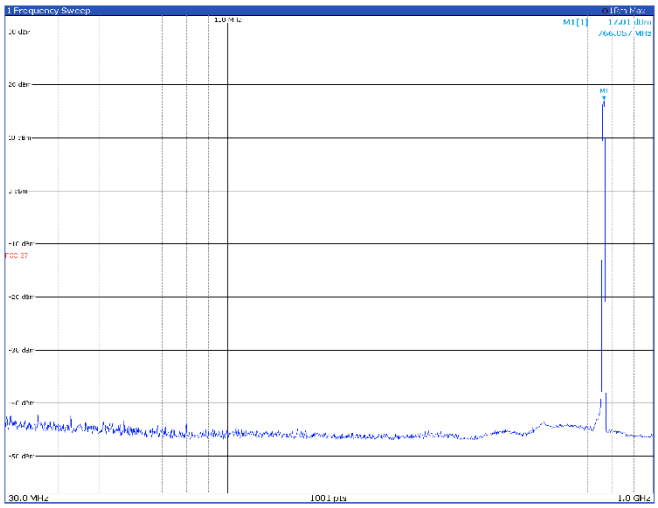
TM3p1a, 10 MHz, mid channel

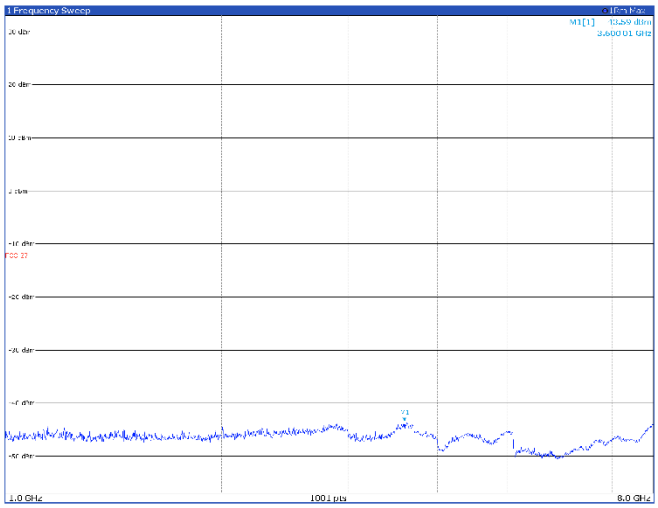




Limit exceeded by the carrier

TM3p3, 10 MHz, mid channel

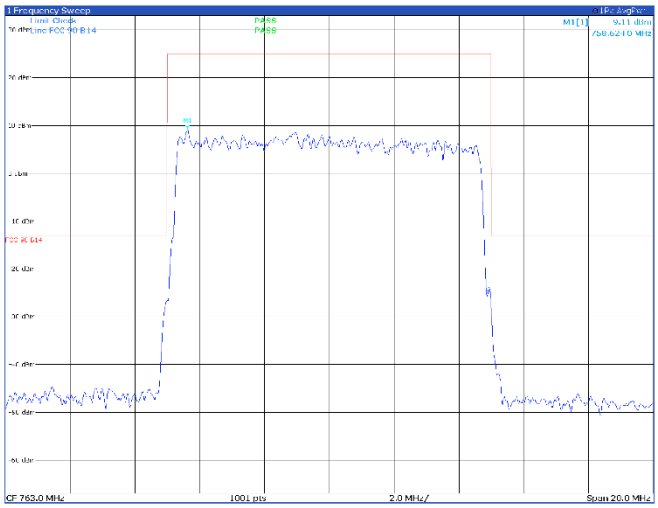




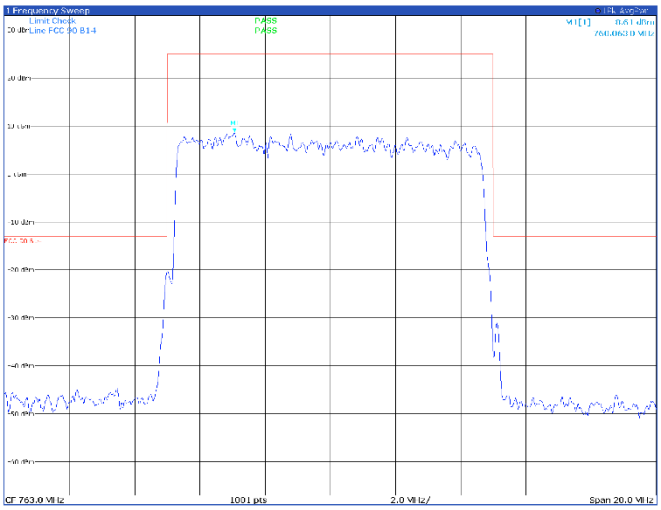
Limit exceeded by the carrier

Band n14 – band edge Antenna port 1 **10 MHz**

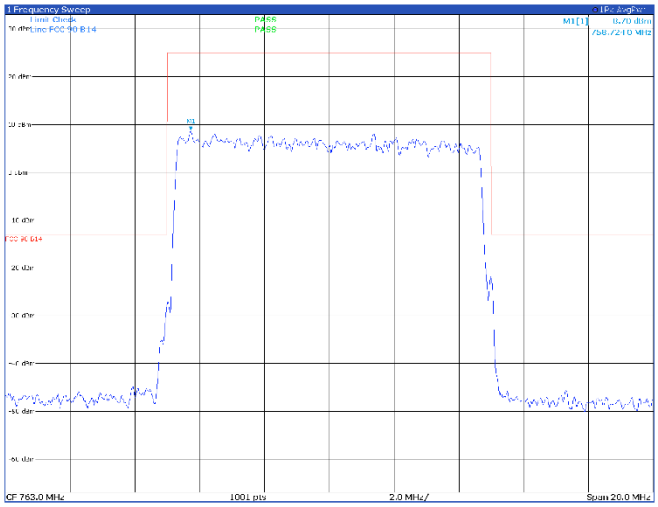
TM1.1, 10 MHz, mid channel



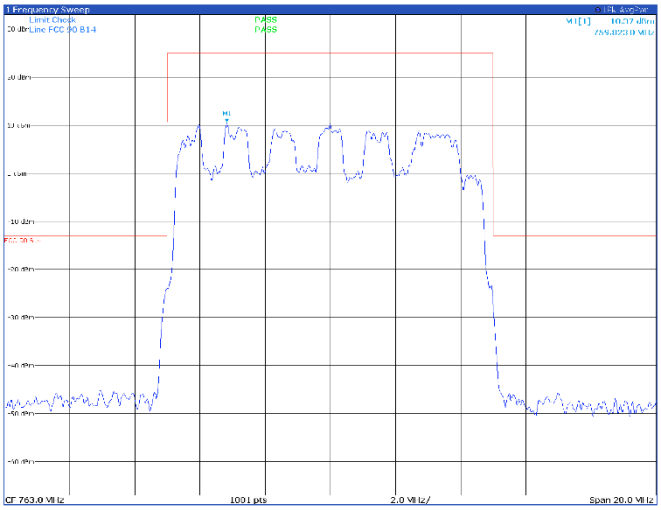
TM3p1, 10 MHz, mid channel



TM3p1a, 10 MHz, mid channel

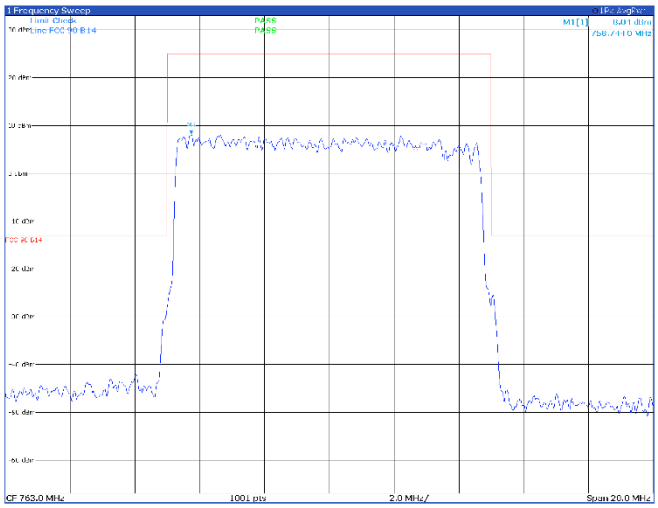


TM3p3, 10 MHz, mid channel

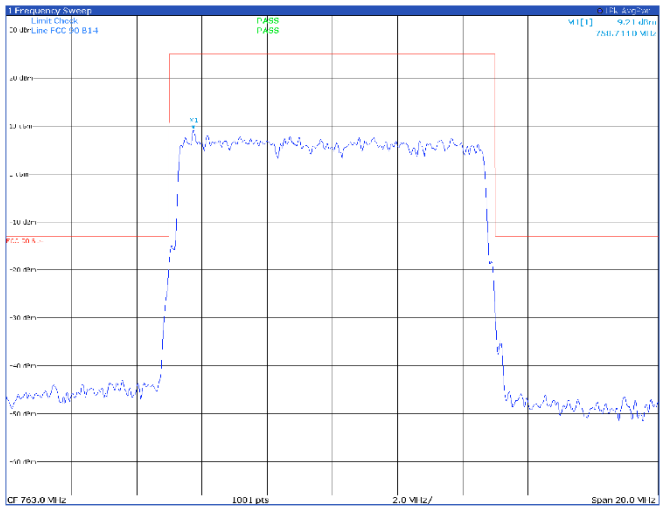


Band n14 – band edge Antenna port 2 **10 MHz**

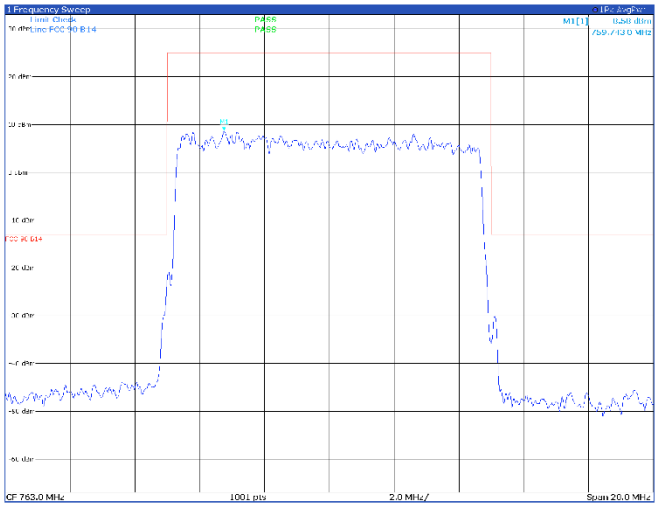
TM1.1, 10 MHz, mid channel



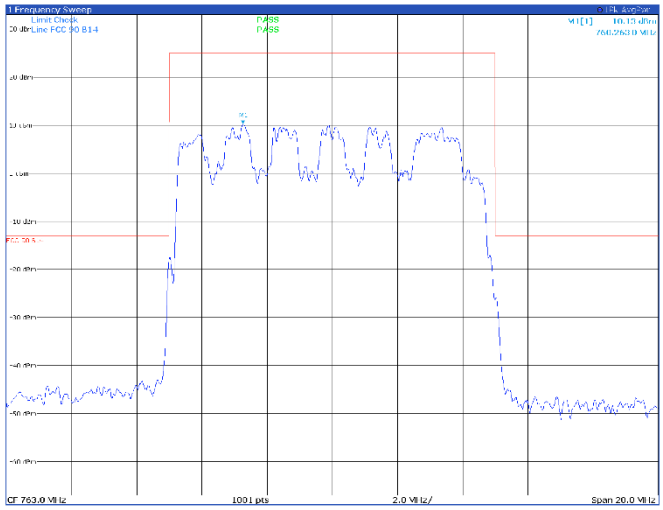
TM3p1, 10 MHz, mid channel



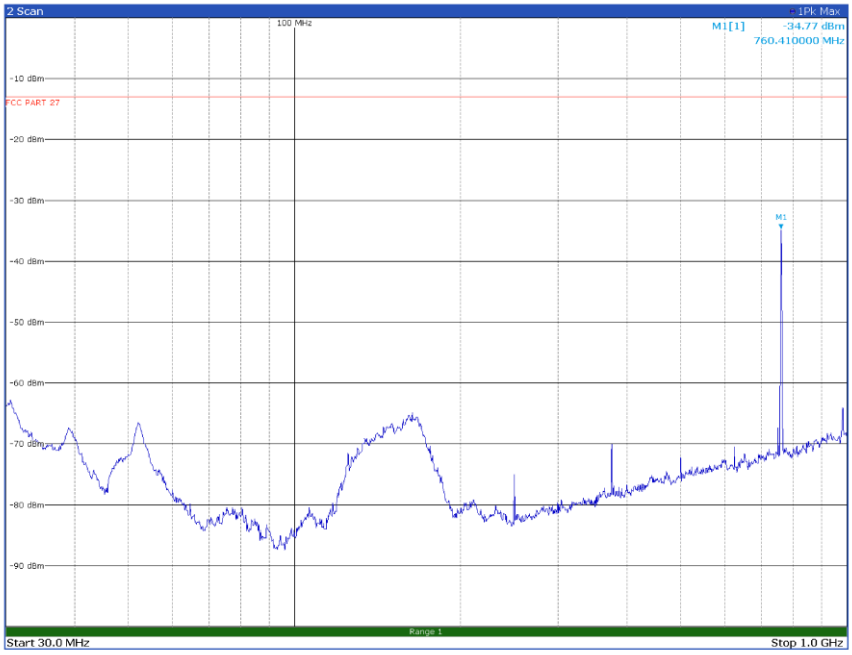
TM3p1a, 10 MHz, mid channel



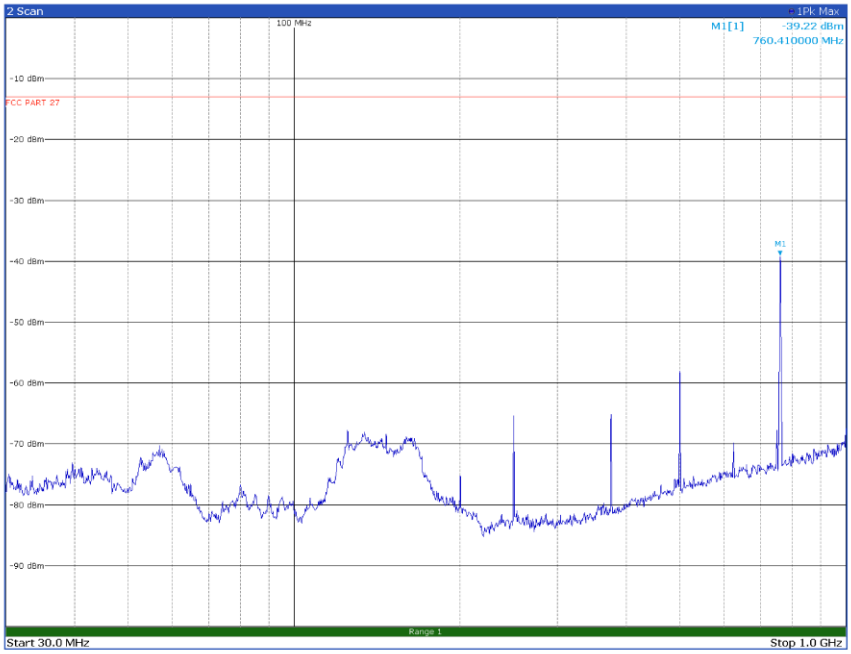
TM3p3, 10 MHz, mid channel



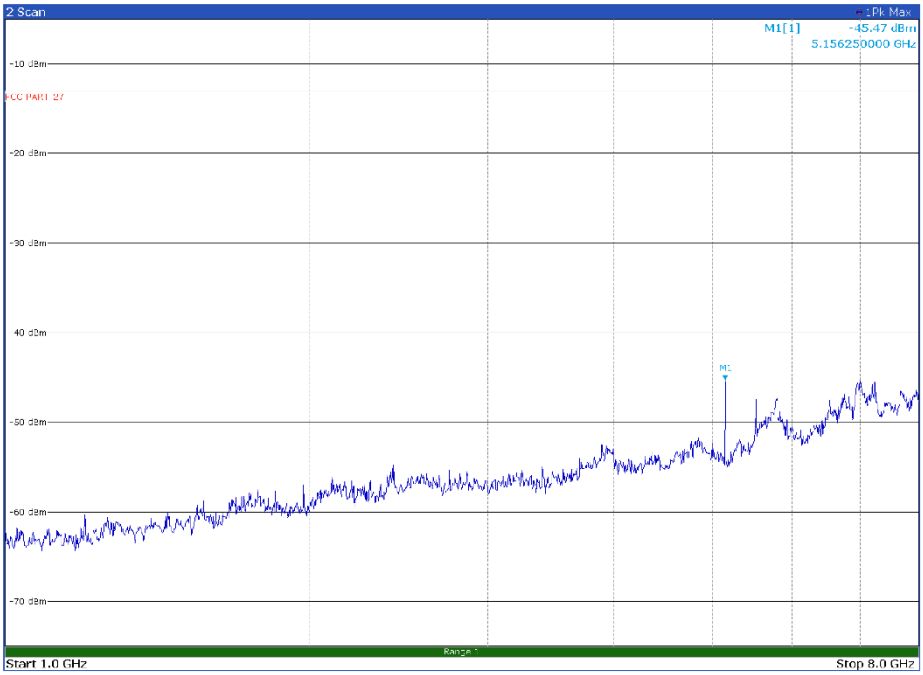
Band n14 – radiated spurious emissions **5 MHz**



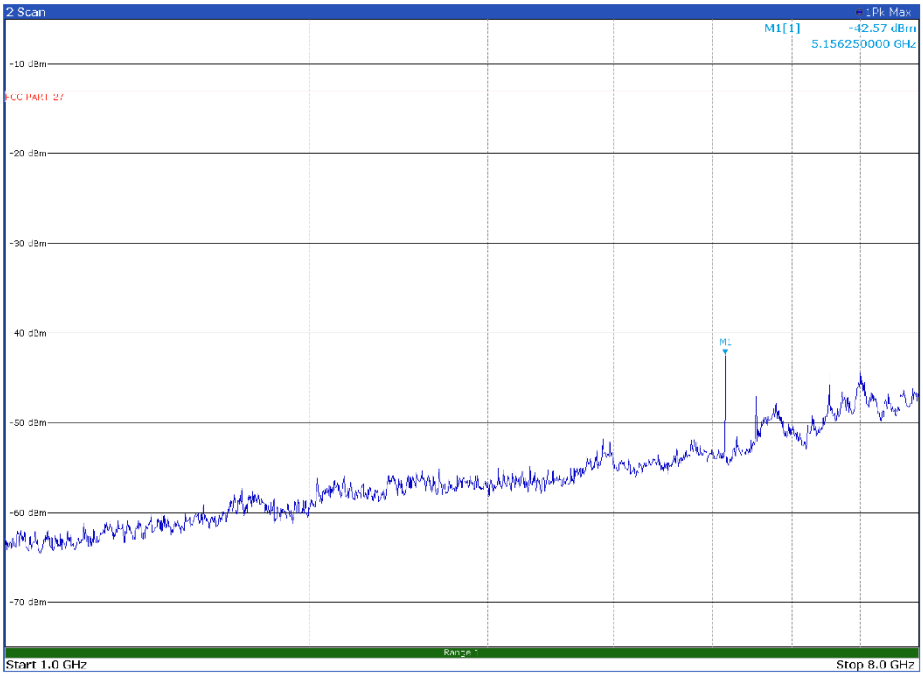
Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, low channel, TM3p1a modulation



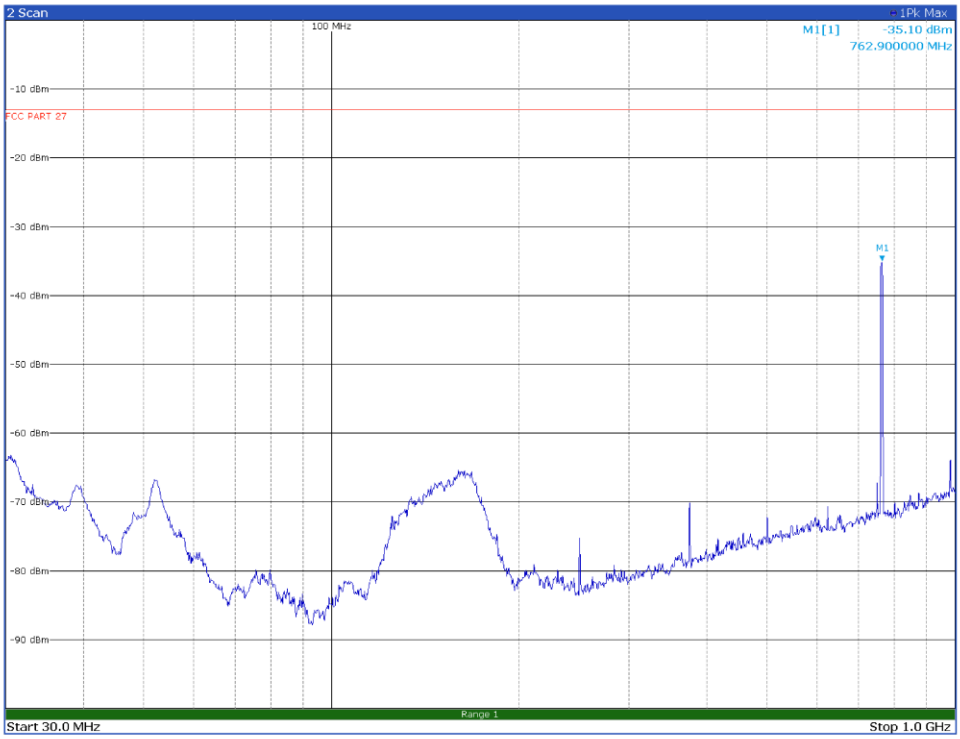
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, low channel, TM3p1a modulation



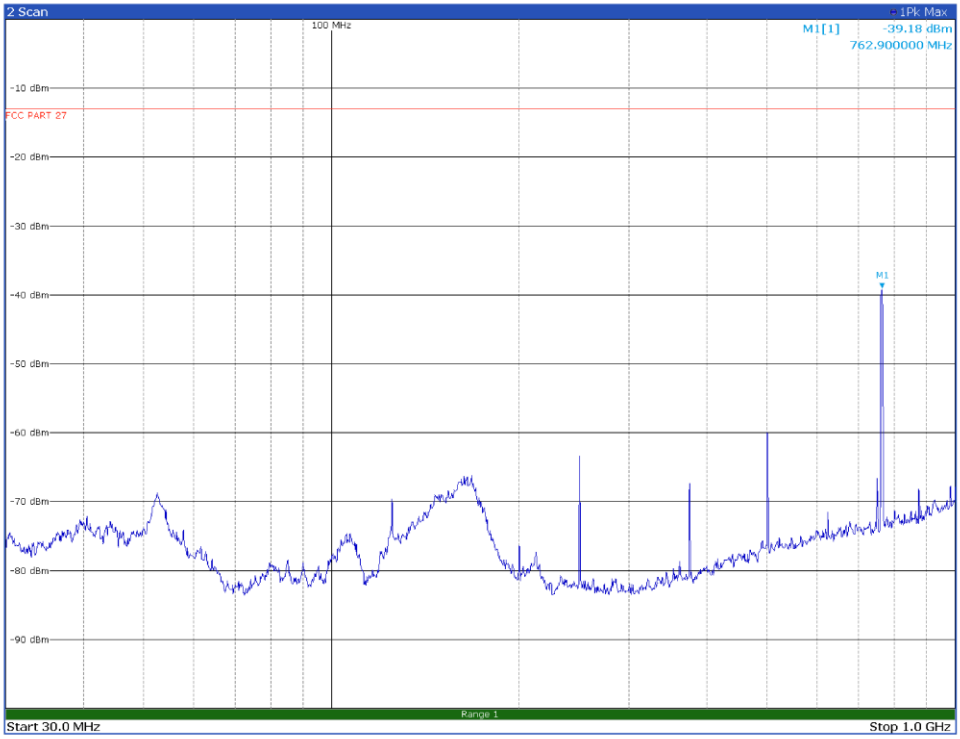
Radiated emissions spectral plot (1 GHz - 8 GHz), vertical polarization, low channel, TM3p1a modulation



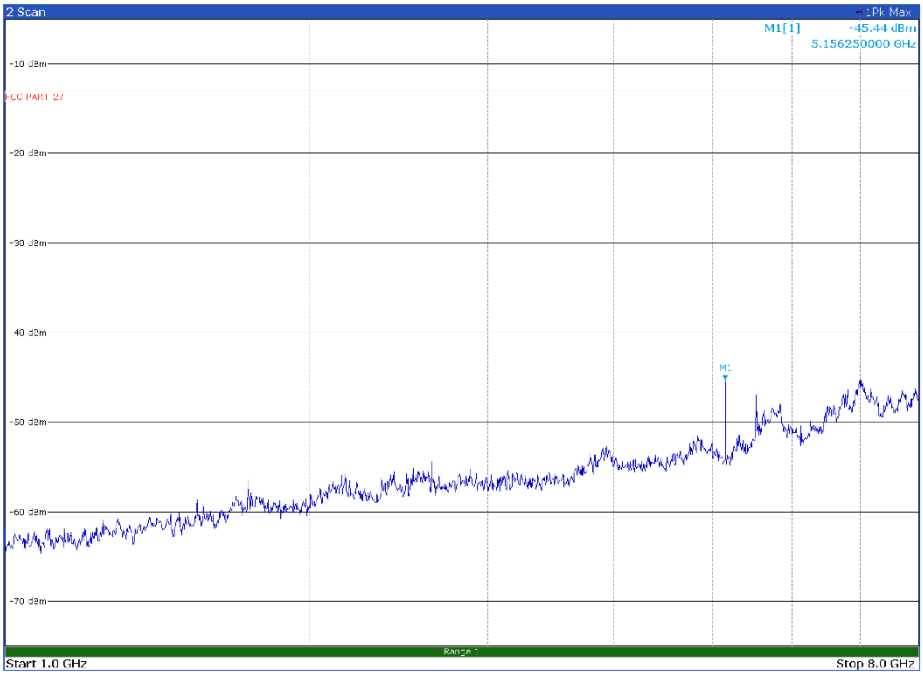
Radiated emissions spectral plot (1 GHz - 8 GHz), horizontal polarization, low channel, TM3p1a modulation



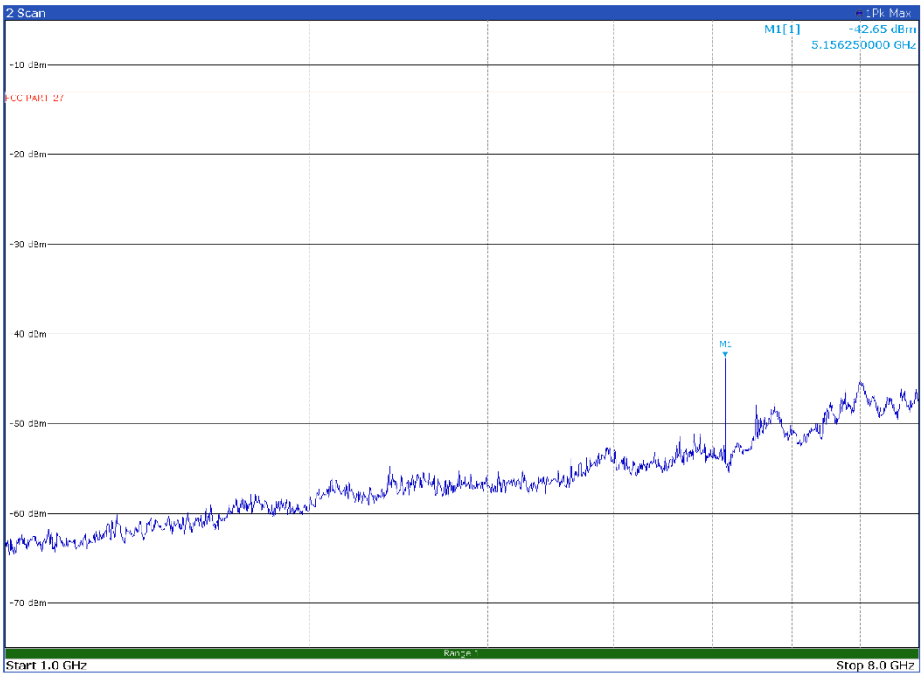
Radiated emissions spectral plot (30 MHz - 1 GHz), vertical polarization, mid channel, TM3p1a modulation



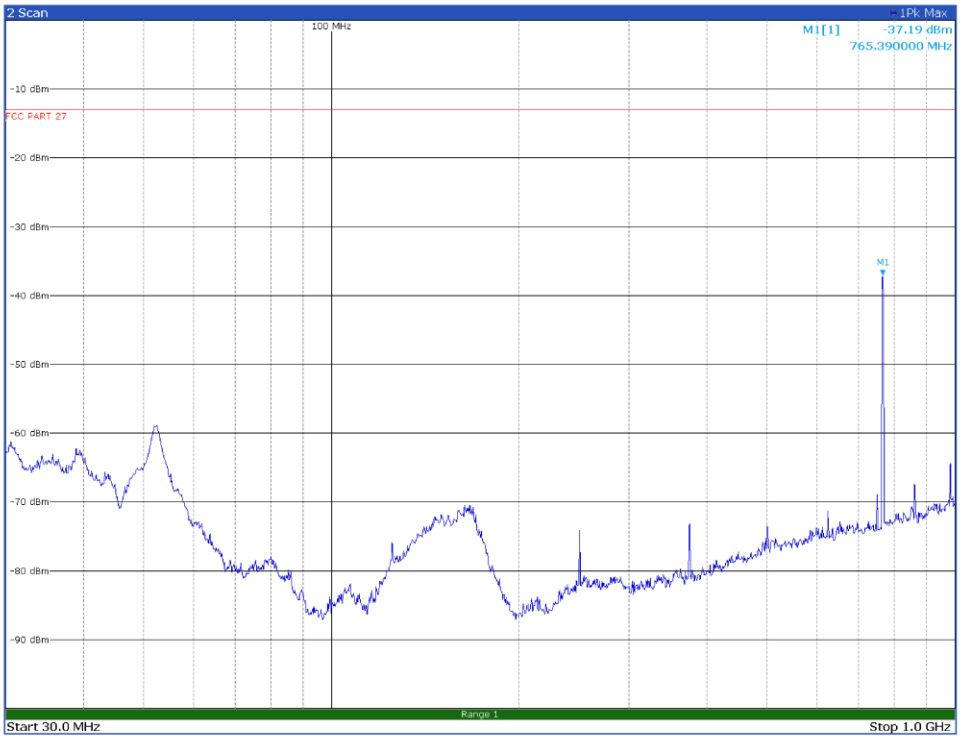
Radiated emissions spectral plot (30 MHz - 1 GHz), horizontal polarization, mid channel, TM3p1a modulation



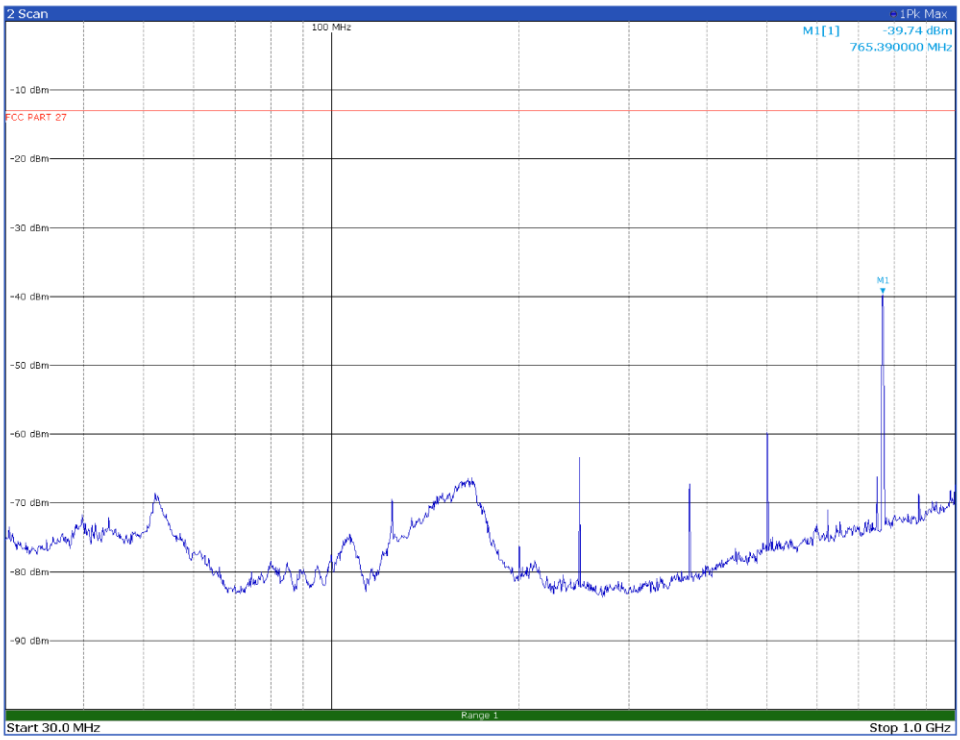
Radiated emissions spectral plot (1 GHz - 8 GHz), vertical polarization, mid channel, TM3p1a modulation



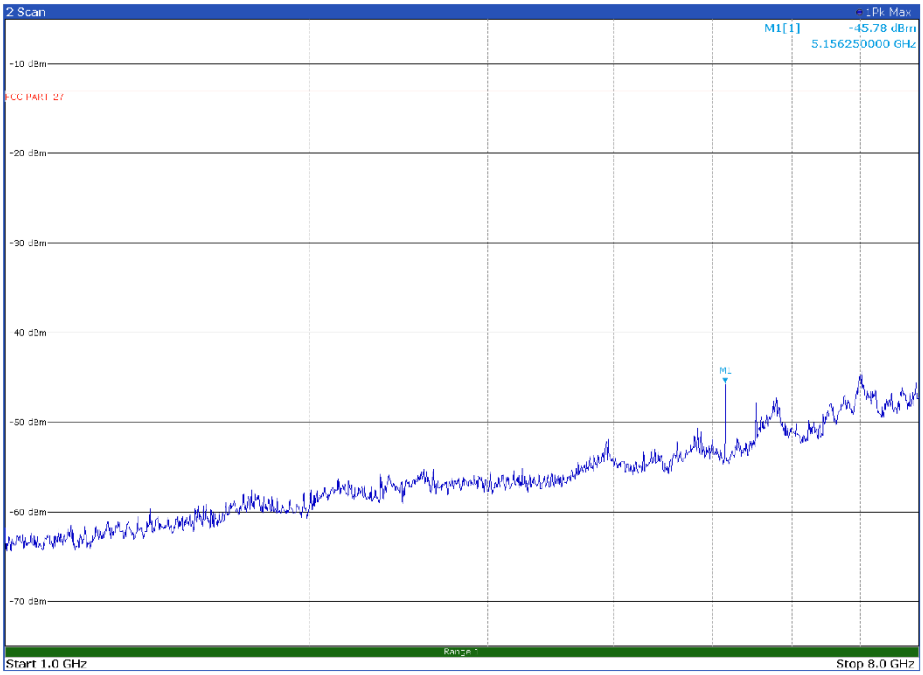
Radiated emissions spectral plot (1 GHz - 8 GHz), horizontal polarization, mid channel, TM3p1a modulation



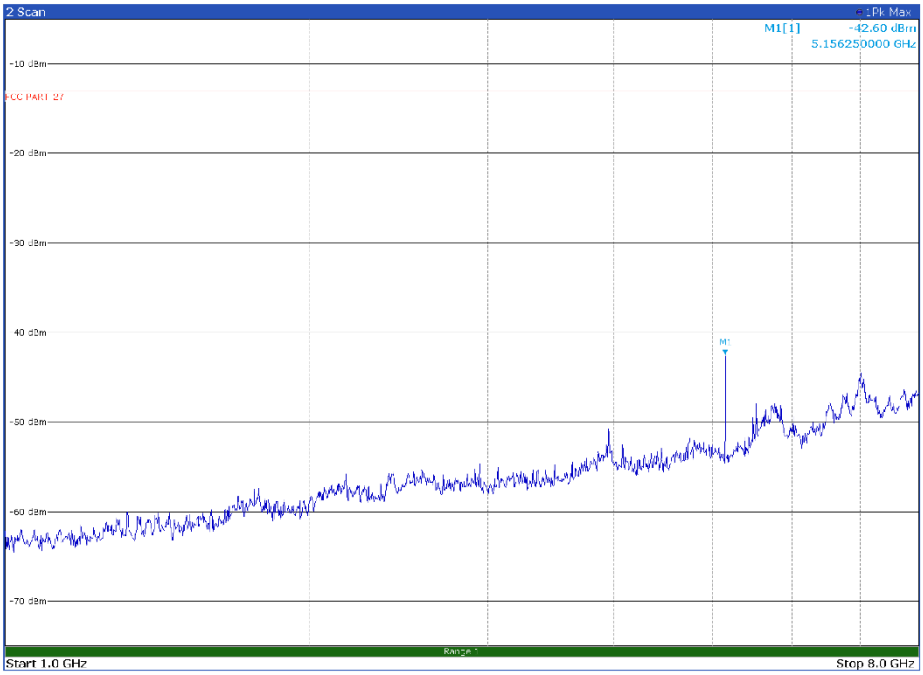
Radiated emissions spectral plot (30 MHz - 1GHz), vertical polarization, high channel, TM3p1a modulation



Radiated emissions spectral plot (30 MHz - 1GHz), horizontal polarization, high channel, TM3p1a modulation



Radiated emissions spectral plot (1 GHz - 8 GHz), vertical polarization, high channel, TM3p1a modulation



Radiated emissions spectral plot (1 GHz - 8 GHz), horizontal polarization, high channel, TM3p1a modulation

8.7 FCC §90.539 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	November 27, 2024	Temperature	21 °C
Test engineer	O. Frau	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 90 is that the carrier stays within the allocated band.

8.7.4 Test data

Band n14:

*Table **Errore. Per applicare Heading 2 al testo da visualizzare in questo punto, utilizzare la scheda Home.**-1: Frequency stability results, band n14*

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm
+50 °C, Nominal	763001390.0	1100.0	1.44
+40 °C, Nominal	763000540.0	250.0	0.33
+30 °C, Nominal	762999990.0	-300.0	-0.39
+20 °C, +15%	763000480.0	190.0	0.25
+20 °C, Nominal	763000290.0	Reference	Reference
+20 °C, -15%	763000080.0	-210.0	-0.28
+10 °C, Nominal	762999940.0	-350.0	-0.46
0 °C, Nominal	763000570.0	280.0	0.37
-10 °C, Nominal	763000620.0	330.0	0.43
-20 °C, Nominal	763001030.0	740.0	0.97
-30 °C, Nominal	763000900.0	610.0	0.80

Section 9. Block diagrams of test setups

9.1 Conducted emissions set-up

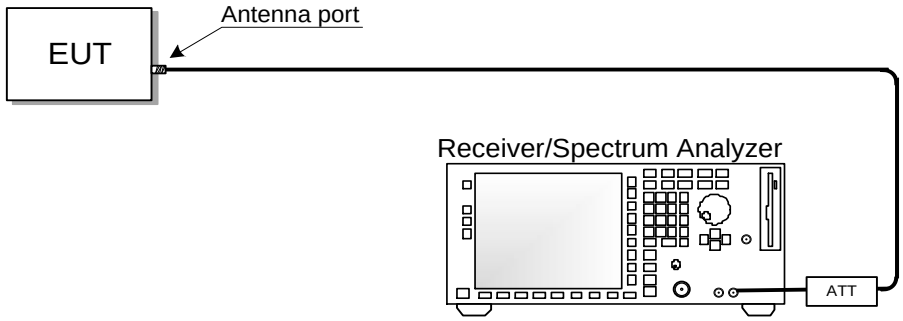


Figure 9.1-1: Conducted setup

9.2 Radiated emissions set-up

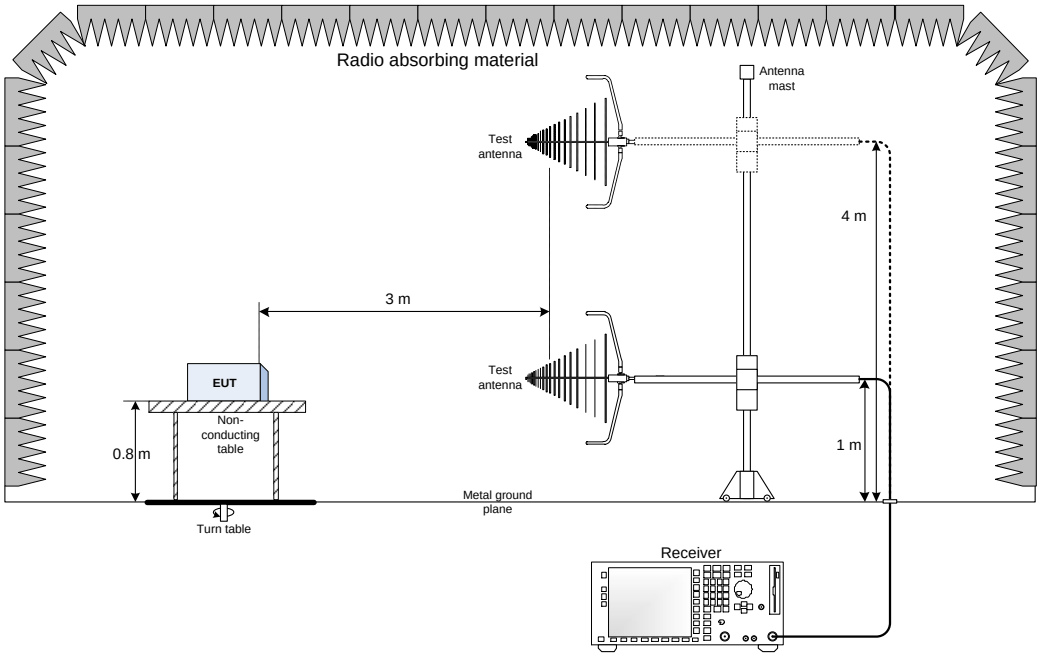


Figure 9.2-1: Below 1 GHz setup

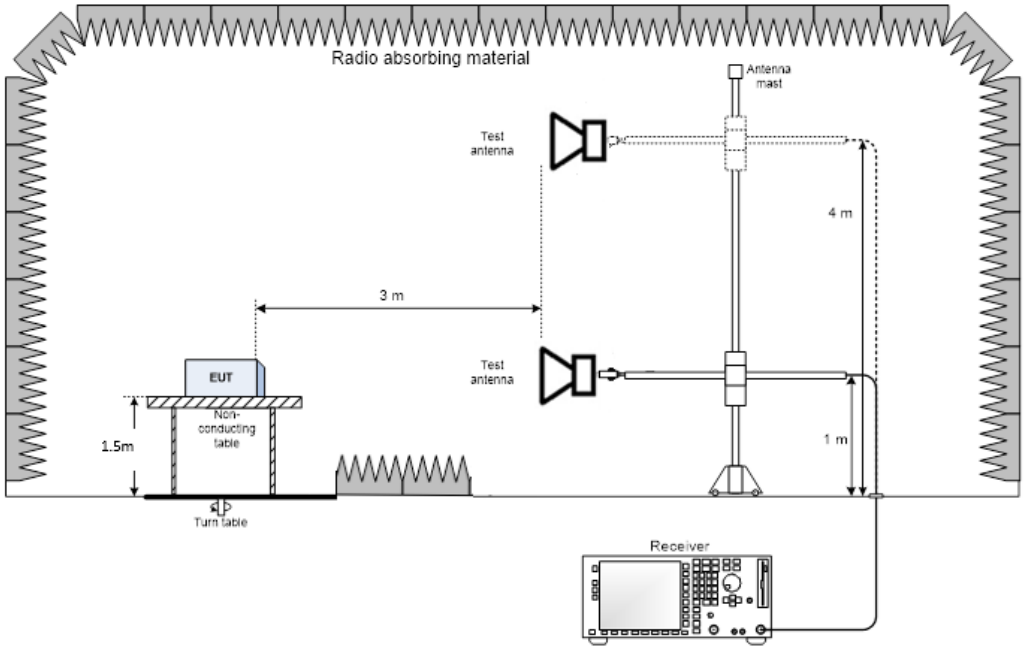


Figure 9.2-2: Above 1GHz setup

End of Report