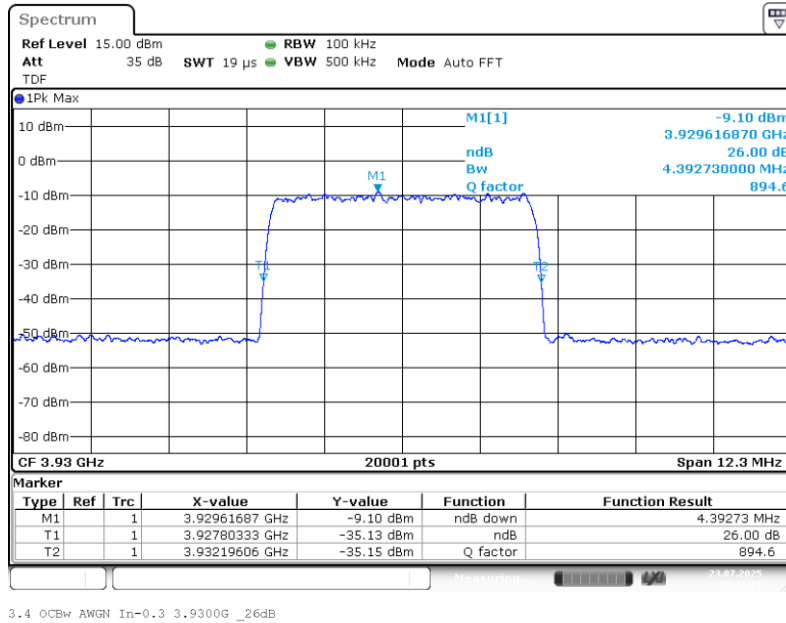


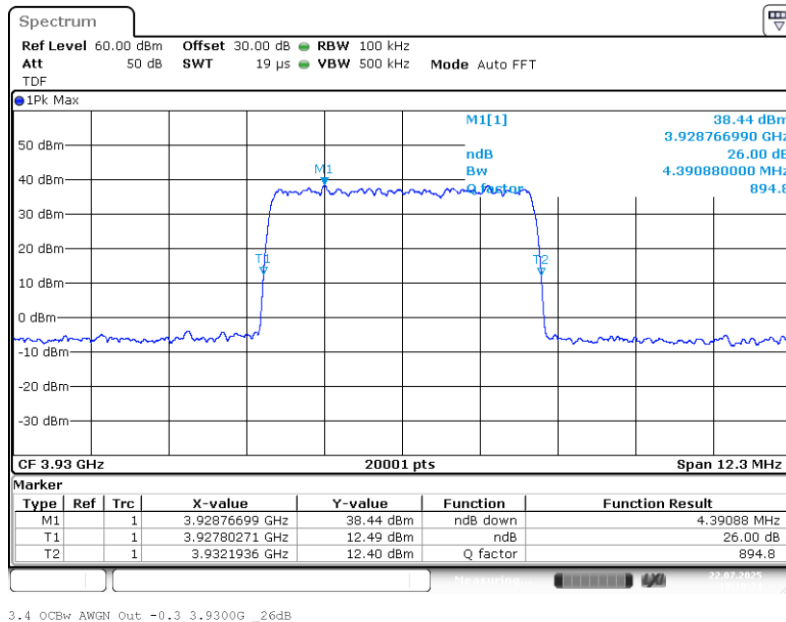
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN; Input OCBw 0.3 dB < AGC



Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN; Output OCBw 0.3 dB < AGC

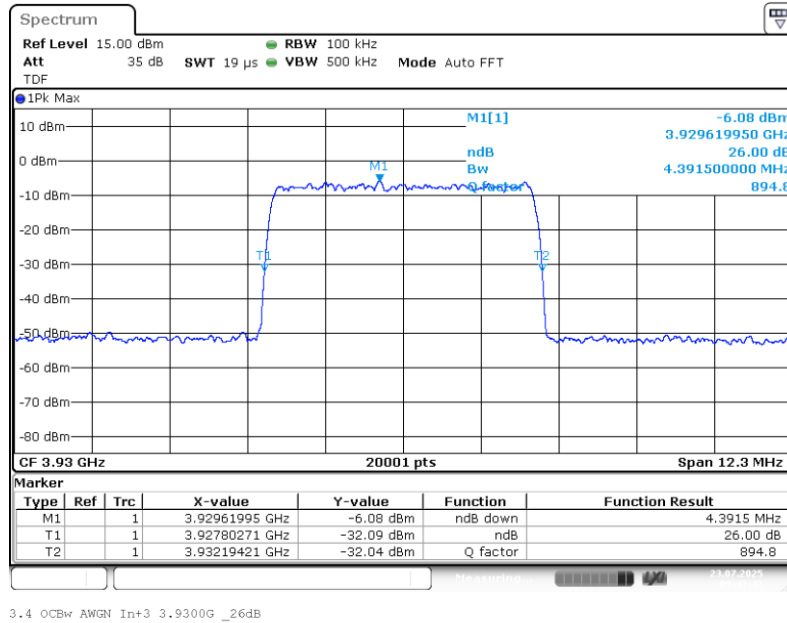


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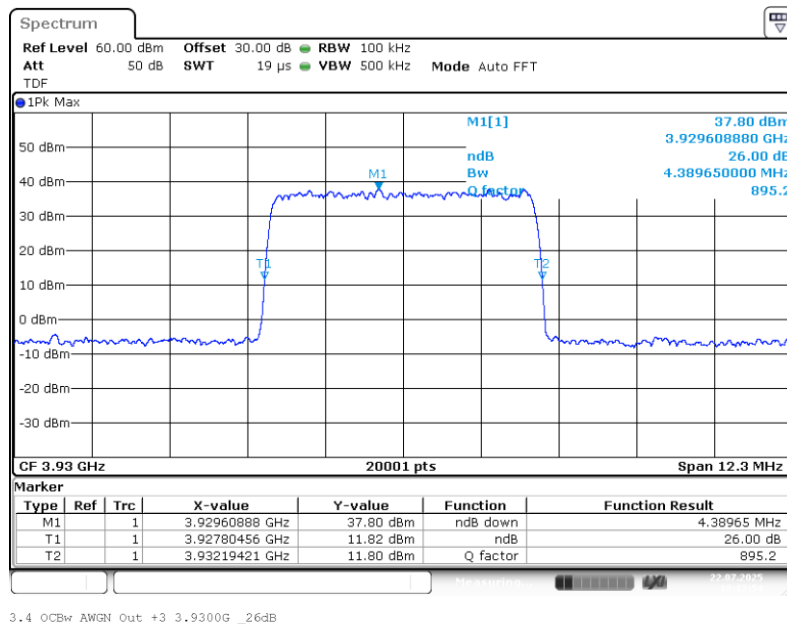
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN; Input OCBw 3 dB > AGC



Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN; Output OCBw 3 dB > AGC

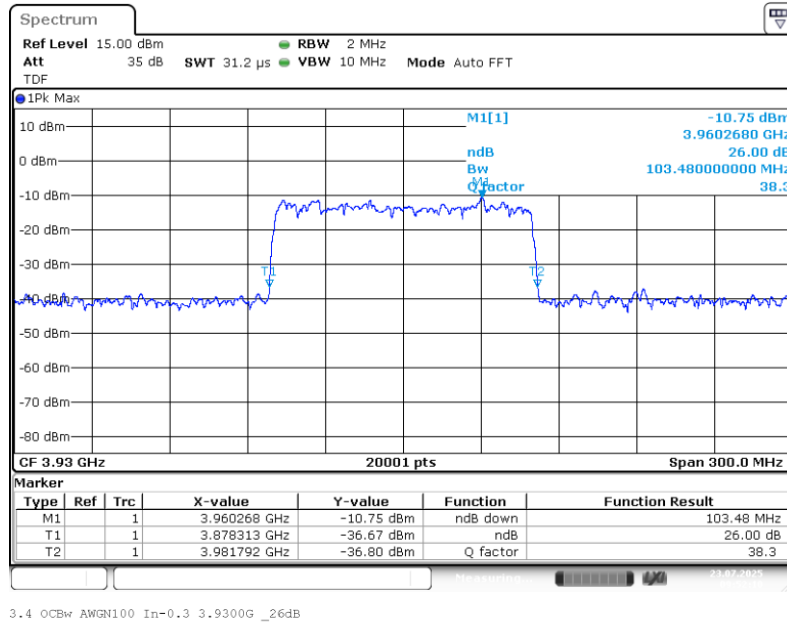


The test results relate only to the tested item. The sample has been provided by the client.
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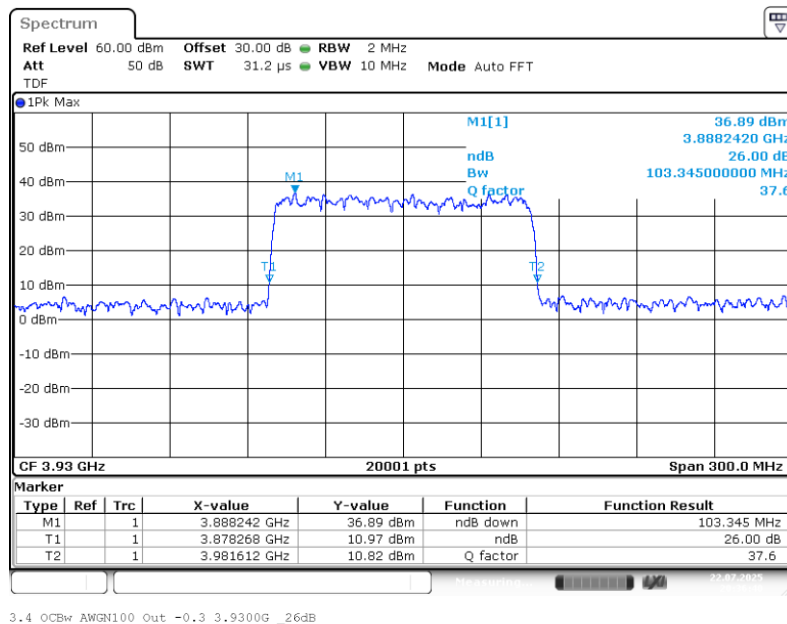
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN100; Input OCBw 0.3 dB < AGC



Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN100; Output OCBw 0.3 dB < AGC

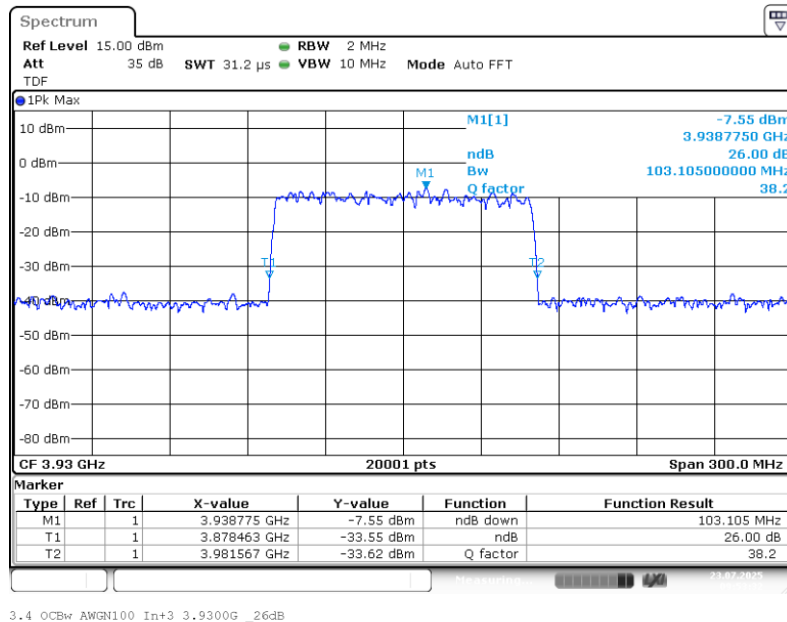


The test results relate only to the tested item. The sample has been provided by the client.
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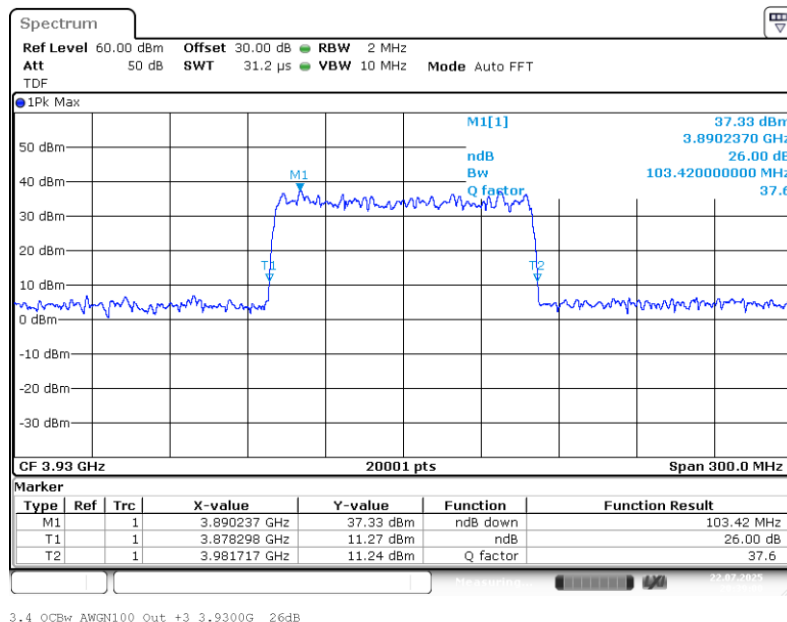
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN100; Input OCBw 3 dB > AGC



Band: TDD 37, segment 3, ANT 2; Frequency: 3.9300 GHz; Band edge: mid;
Mod: AWGN100; Output OCBw 3 dB > AGC



The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

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5.3.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.
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2025-0163-EMC-TR-25-0150-V01

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

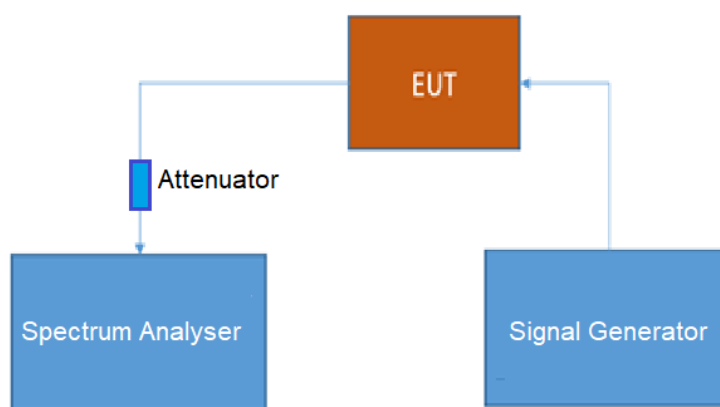
5.4 CONDUCTED SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Standard FCC Part §2.1051, §27.53

The test was performed according to:
ANSI C63.26**Test date:** 2025-12-08 – 2025-12-11**Environmental conditions:** 26.5 °C; 30 % r. H. (average values from the test times)**Test engineer:** Thomas Hufnagel**5.4.1 TEST DESCRIPTION**

This test case is intended to demonstrate compliance to the occupied bandwidth in comparison between the input and output signal of a booster.

The EUT was connected to the test setup according to the following diagram:



The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.4.2 TEST REQUIREMENTS/LIMITSAbstract from FCC Part 2:**FCC Part 2.1051; Measurement required: Spurious emissions at antenna terminal:**

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

Abstract from FCC Part 27:**Part 27; Miscellaneous Wireless Communication Services****Subpart C – Technical standards****§27.53 – Emission limits**

(I) **3.7 GHz Service.** The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The test results relate only to the tested item. The sample has been provided by the client.

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Abstract from ISED RSS-192:

RSS-192; 5.6.1 Unwanted emission limits for outdoor base station, point-to-point and point-to-multipoint equipment

The unwanted emissions of base station, P-P and P-MP equipment shall comply with the following:

- the limits in table 2 for all frequencies between 3450-3900 MHz
- the limits in table 3 for all frequencies between 3400-3450 MHz
- a limit of -13 dBm TRP /MHz or conducted power (sum of conducted power across all antenna connectors), where applicable, for all frequencies below 3400 MHz
- the limits in table 4 for all frequencies above 3900 MHz
- a limit of -30 dBm TRP /MHz or conducted power (sum of conducted power across all antenna connector), where applicable, for all frequencies between 4200-4400 MHz

Table 2: Unwanted emission limits for outdoor base station, P-P, and P-MP equipment in the band 3450-3900 MHz

Offset frequency from the edge of the frequency block group (MHz)	Non-AAS e.i.r.p. (dBm/5 MHz) per antenna	AAS TRP (dBm/5 MHz)
0-5	Min {(e.i.r.p. _{max} - 40), 21}	Min {(TRP _{max} - 40), 16}
5-10	Min {(e.i.r.p. _{max} - 43), 15}	Min {(TRP _{max} - 43), 12}
>10	Min {(e.i.r.p. _{max} - 43), 13}	Min {(TRP _{max} - 43), 1}

Note: e.i.r.p._{max} and TRP_{max} are expressed in dBm

Table 3: Unwanted emission limits for outdoor base station, P-P, and P-MP equipment in the band 3400-3450 MHz

Frequency range (MHz)	Non-AAS e.i.r.p. (dBm/5 MHz) per antenna	AAS TRP (dBm/5 MHz)
3450-3445	Min {(e.i.r.p. _{max} - 40), 21}	Min {(TRP _{max} - 40), 16}
3445-3440	Min {(e.i.r.p. _{max} - 43), 15}	Min {(TRP _{max} - 43), 12}
3440-3400	Min {(e.i.r.p. _{max} - 43), 13}	Min {(TRP _{max} - 43), 1}

Note: e.i.r.p._{max} and TRP_{max} are expressed in dBm

Table 4: Unwanted emission limits for outdoor base station, P-P and P-MP equipment above 3900 MHz

Offset from 3900 MHz band edge	TRP or conducted power (sum of conducted power across all antenna connectors), where applicable
≤1 MHz	-13 dBm/1% of OB*
>1 MHz	-13 dBm/MHz

*OB is the occupied bandwidth

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.4.3 TEST PROTOCOL

General considerations concerning the spurious levels:

The measuring bandwidth of 1 MHz was chosen according the test requirements except at the Band edges: At the Band edges reducing of measurement bandwidth was necessary to prevent overlaying the RF-signal over the spurious emissions.

Also outside the downlink frequency band at lower frequencies the measurement bandwidths were reduced to have the possibility to record the spurious emissions at these lower frequencies.

At frequencies where measuring bandwidths were reduced the measured levels were extrapolated to values, which would have been measured with a bandwidth of 1 MHz.

$$p_{extrapolated} [dBm] = 10 * \log \left(1000 \text{ kHz} / RBW_{reduced} [kHz] \right) + p_{RBW_{reduced}} [dBm]$$

The expression " $10 * \log \left(1000 \text{ kHz} / RBW_{reduced} [kHz] \right)$ " is the correction factor which is shown in the column "Corr. factor [dB]".

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 1, ANT 2; Downlink								
Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
low	Wideband	0.01160	-21.4	RMS	1	-13.0	8.4	30.0
low	Wideband	0.05250	-24.6	RMS	10	-13.0	11.6	20.0
low	Wideband	810.8	-23.7	RMS	100	-13.0	10.7	10.0
low	Wideband	3560.3	-24.7	RMS	1000	-13.0	11.7	0.0
low	Wideband	3699.0	-17.3	RMS	1000	-13.0	4.3	10.0
low	Wideband	3808.5	-23.4	RMS	100	-13.0	10.4	10.0
low	Wideband	3840.2	-22.2	RMS	1000	-13.0	9.2	0.0
low	Wideband	6942.1	-20.6	RMS	1000	-13.0	7.6	0.0
low	Wideband	19554.8	-20.3	RMS	1000	-13.0	7.3	0.0
low	Wideband	20338.2	-22.3	RMS	1000	-13.0	9.3	0.0
low	Wideband	30701.4	-24.2	RMS	1000	-13.0	11.2	0.0
low	Wideband	38527.9	-28.0	RMS	1000	-13.0	15.0	0.0
mid	Wideband	0.00976	-20.6	RMS	1	-13.0	7.6	30.0
mid	Wideband	0.07250	-24.9	RMS	10	-13.0	11.9	20.0
mid	Wideband	809.9	-23.7	RMS	100	-13.0	10.7	10.0
mid	Wideband	3675.3	-25.1	RMS	1000	-13.0	12.1	0.0
mid	Wideband	3698.9	-24.5	RMS	100	-13.0	11.5	10.0
mid	Wideband	3772.4	-23.2	RMS	100	-13.0	10.2	10.0
mid	Wideband	4411.5	-23.6	RMS	1000	-13.0	10.6	0.0
mid	Wideband	6847.6	-20.5	RMS	1000	-13.0	7.5	0.0
mid	Wideband	19531.8	-20.4	RMS	1000	-13.0	7.4	0.0
mid	Wideband	20310.7	-22.6	RMS	1000	-13.0	9.6	0.0
mid	Wideband	30304.0	-24.3	RMS	1000	-13.0	11.3	0.0
mid	Wideband	39892.8	-27.7	RMS	1000	-13.0	14.7	0.0
high	Wideband	0.00902	-20.7	RMS	1	-13.0	7.7	30.0
high	Wideband	0.15748	-24.6	RMS	10	-13.0	11.6	20.0
high	Wideband	810.7	-24.0	RMS	100	-13.0	11.0	10.0
high	Wideband	3594.8	-24.9	RMS	1000	-13.0	11.9	0.0
high	Wideband	3697.7	-23.8	RMS	100	-13.0	10.8	10.0
high	Wideband	3802.6	-20.6	RMS	100	-13.0	7.6	10.0
high	Wideband	3840.2	-22.1	RMS	1000	-13.0	9.1	0.0
high	Wideband	6937.6	-20.5	RMS	1000	-13.0	7.5	0.0
high	Wideband	19553.8	-20.0	RMS	1000	-13.0	7.0	0.0
high	Wideband	20326.2	-22.5	RMS	1000	-13.0	9.5	0.0
high	Wideband	30857.9	-23.9	RMS	1000	-13.0	10.9	0.0
high	Wideband	39461.8	-27.6	RMS	1000	-13.0	14.6	0.0

The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 1, ANT 2; Downlink

Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
mid	Wideband 5G	0.01533	-20.9	RMS	1	-13.0	7.9	30.0
mid	Wideband 5G	0.05750	-24.8	RMS	10	-13.0	11.8	20.0
mid	Wideband 5G	950.9	-23.7	RMS	100	-13.0	10.7	10.0
mid	Wideband 5G	3690.7	-21.4	RMS	1000	-13.0	8.4	0.0
mid	Wideband 5G	3691.4	-22.5	RMS	100	-13.0	9.5	10.0
mid	Wideband 5G	3801.2	-23.7	RMS	100	-13.0	10.7	10.0
mid	Wideband 5G	3813.7	-21.2	RMS	1000	-13.0	8.2	0.0
mid	Wideband 5G	6956.1	-20.6	RMS	1000	-13.0	7.6	0.0
mid	Wideband 5G	19547.8	-20.2	RMS	1000	-13.0	7.2	0.0
mid	Wideband 5G	20316.2	-22.5	RMS	1000	-13.0	9.5	0.0
mid	Wideband 5G	30759.4	-23.7	RMS	1000	-13.0	10.7	0.0
mid	Wideband 5G	39208.8	-27.4	RMS	1000	-13.0	14.4	0.0

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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 2, ANT 2; Downlink								
Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
low	Wideband	0.01029	-21.1	RMS	1	-13.0	8.1	30.0
low	Wideband	0.06250	-24.3	RMS	10	-13.0	11.3	20.0
low	Wideband	121.8	-23.9	RMS	100	-13.0	10.9	10.0
low	Wideband	3778.8	-21.8	RMS	1000	-13.0	8.8	0.0
low	Wideband	3788.6	-17.3	RMS	1000	-13.0	4.3	10.0
low	Wideband	3840.2	-23.4	RMS	100	-13.0	10.4	10.0
low	Wideband	4144.1	-23.2	RMS	1000	-13.0	10.2	0.0
low	Wideband	6961.6	-20.5	RMS	1000	-13.0	7.5	0.0
low	Wideband	19948.8	-20.4	RMS	1000	-13.0	7.4	0.0
low	Wideband	20296.2	-21.8	RMS	1000	-13.0	8.8	0.0
low	Wideband	31117.4	-23.9	RMS	1000	-13.0	10.9	0.0
low	Wideband	39868.3	-27.8	RMS	1000	-13.0	14.8	0.0
mid	Wideband	0.01328	-21.0	RMS	1	-13.0	8.0	30.0
mid	Wideband	0.14248	-25.0	RMS	10	-13.0	12.0	20.0
mid	Wideband	950.5	-23.0	RMS	100	-13.0	10.0	10.0
mid	Wideband	3716.8	-23.6	RMS	1000	-13.0	10.6	0.0
mid	Wideband	3784.2	-22.4	RMS	100	-13.0	9.4	10.0
mid	Wideband	3837.2	-23.3	RMS	100	-13.0	10.3	10.0
mid	Wideband	3921.2	-23.3	RMS	1000	-13.0	10.3	0.0
mid	Wideband	6817.1	-20.3	RMS	1000	-13.0	7.3	0.0
mid	Wideband	19556.3	-20.7	RMS	1000	-13.0	7.7	0.0
mid	Wideband	20283.7	-22.4	RMS	1000	-13.0	9.4	0.0
mid	Wideband	30797.9	-24.0	RMS	1000	-13.0	11.0	0.0
mid	Wideband	39922.3	-27.7	RMS	1000	-13.0	14.7	0.0
high	Wideband	0.01357	-21.2	RMS	1	-13.0	8.2	30.0
high	Wideband	0.06250	-24.7	RMS	10	-13.0	11.7	20.0
high	Wideband	951.6	-23.4	RMS	100	-13.0	10.4	10.0
high	Wideband	3755.3	-23.7	RMS	1000	-13.0	10.7	0.0
high	Wideband	3789.0	-22.6	RMS	100	-13.0	9.6	10.0
high	Wideband	3891.5	-19.7	RMS	100	-13.0	6.7	10.0
high	Wideband	3963.2	-22.4	RMS	1000	-13.0	9.4	0.0
high	Wideband	6957.6	-20.0	RMS	1000	-13.0	7.0	0.0
high	Wideband	19948.3	-20.2	RMS	1000	-13.0	7.2	0.0
high	Wideband	20283.2	-22.8	RMS	1000	-13.0	9.8	0.0
high	Wideband	30743.4	-24.1	RMS	1000	-13.0	11.1	0.0
high	Wideband	39922.8	-28.0	RMS	1000	-13.0	15.0	0.0

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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 2, ANT 2; Downlink								
Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
mid	Wideband 5G	0.00902	-19.9	RMS	1	-13.0	6.9	30.0
mid	Wideband 5G	0.07750	-24.1	RMS	10	-13.0	11.1	20.0
mid	Wideband 5G	814.7	-23.8	RMS	100	-13.0	10.8	10.0
mid	Wideband 5G	3770.8	-18.8	RMS	1000	-13.0	5.8	0.0
mid	Wideband 5G	3788.2	-17.5	RMS	100	-13.0	4.5	10.0
mid	Wideband 5G	3892.0	-18.1	RMS	100	-13.0	5.1	10.0
mid	Wideband 5G	3902.2	-20.2	RMS	1000	-13.0	7.2	0.0
mid	Wideband 5G	6864.1	-20.5	RMS	1000	-13.0	7.5	0.0
mid	Wideband 5G	19529.3	-20.3	RMS	1000	-13.0	7.3	0.0
mid	Wideband 5G	20301.2	-21.8	RMS	1000	-13.0	8.8	0.0
mid	Wideband 5G	31136.9	-23.8	RMS	1000	-13.0	10.8	0.0
mid	Wideband 5G	39882.3	-27.4	RMS	1000	-13.0	14.4	0.0

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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 3, ANT 2; Downlink								
Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
low	Wideband	0.01074	-20.4	RMS	1	-13.0	7.4	30.0
low	Wideband	0.15748	-24.6	RMS	10	-13.0	11.6	20.0
low	Wideband	949.7	-23.7	RMS	100	-13.0	10.7	10.0
low	Wideband	3840.8	-22.2	RMS	1000	-13.0	9.2	0.0
low	Wideband	3878.1	-15.6	RMS	1000	-13.0	2.6	10.0
low	Wideband	3983.0	-23.5	RMS	100	-13.0	10.5	10.0
low	Wideband	4982.8	-23.5	RMS	1000	-13.0	10.5	0.0
low	Wideband	6852.6	-20.3	RMS	1000	-13.0	7.3	0.0
low	Wideband	19559.8	-20.1	RMS	1000	-13.0	7.1	0.0
low	Wideband	20301.7	-22.4	RMS	1000	-13.0	9.4	0.0
low	Wideband	30788.9	-23.9	RMS	1000	-13.0	10.9	0.0
low	Wideband	39039.8	-27.5	RMS	1000	-13.0	14.5	0.0
mid	Wideband	0.00910	-19.6	RMS	1	-13.0	6.6	30.0
mid	Wideband	0.05250	-25.3	RMS	10	-13.0	12.3	20.0
mid	Wideband	948.6	-22.9	RMS	100	-13.0	9.9	10.0
mid	Wideband	3829.3	-23.3	RMS	1000	-13.0	10.3	0.0
mid	Wideband	3871.8	-22.6	RMS	100	-13.0	9.6	10.0
mid	Wideband	3984.2	-23.3	RMS	100	-13.0	10.3	10.0
mid	Wideband	4842.3	-23.8	RMS	1000	-13.0	10.8	0.0
mid	Wideband	6880.1	-20.4	RMS	1000	-13.0	7.4	0.0
mid	Wideband	19526.8	-20.5	RMS	1000	-13.0	7.5	0.0
mid	Wideband	20314.2	-22.4	RMS	1000	-13.0	9.4	0.0
mid	Wideband	30645.4	-23.6	RMS	1000	-13.0	10.6	0.0
mid	Wideband	39456.8	-27.7	RMS	1000	-13.0	14.7	0.0
high	Wideband	0.01533	-21.0	RMS	1	-13.0	8.0	30.0
high	Wideband	0.15248	-23.0	RMS	10	-13.0	10.0	20.0
high	Wideband	950.0	-22.8	RMS	100	-13.0	9.8	10.0
high	Wideband	3840.3	-21.2	RMS	1000	-13.0	8.2	0.0
high	Wideband	3872.4	-22.3	RMS	100	-13.0	9.3	10.0
high	Wideband	3982.6	-19.2	RMS	100	-13.0	6.2	10.0
high	Wideband	4992.3	-23.6	RMS	1000	-13.0	10.6	0.0
high	Wideband	6830.6	-20.4	RMS	1000	-13.0	7.4	0.0
high	Wideband	19558.8	-20.2	RMS	1000	-13.0	7.2	0.0
high	Wideband	20293.7	-22.4	RMS	1000	-13.0	9.4	0.0
high	Wideband	30690.4	-24.1	RMS	1000	-13.0	11.1	0.0
high	Wideband	39127.8	-27.7	RMS	1000	-13.0	14.7	0.0

The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, segment 3, ANT 2; Downlink								
Test freq.	Signal type	Spurious freq. [MHz]	Spurious level [dBm]	Detector	RBW [kHz]	Limit [dBm]	Margin to limit [dB]	Corr. factor [dB]
mid	Wideband 5G	0.01824	-21.3	RMS	1	-13.0	8.3	30.0
mid	Wideband 5G	0.05250	-23.4	RMS	10	-13.0	10.4	20.0
mid	Wideband 5G	949.3	-23.4	RMS	100	-13.0	10.4	10.0
mid	Wideband 5G	3839.8	-19.6	RMS	1000	-13.0	6.6	0.0
mid	Wideband 5G	3876.4	-17.7	RMS	100	-13.0	4.7	10.0
mid	Wideband 5G	3982.2	-18.6	RMS	100	-13.0	5.6	10.0
mid	Wideband 5G	4977.8	-23.3	RMS	1000	-13.0	10.3	0.0
mid	Wideband 5G	6972.1	-20.4	RMS	1000	-13.0	7.4	0.0
mid	Wideband 5G	19552.8	-20.0	RMS	1000	-13.0	7.0	0.0
mid	Wideband 5G	20300.2	-22.3	RMS	1000	-13.0	9.3	0.0
mid	Wideband 5G	30785.9	-23.7	RMS	1000	-13.0	10.7	0.0
mid	Wideband 5G	39151.8	-27.7	RMS	1000	-13.0	14.7	0.0

Remark: Please see next sub-clause for the measurement plot.

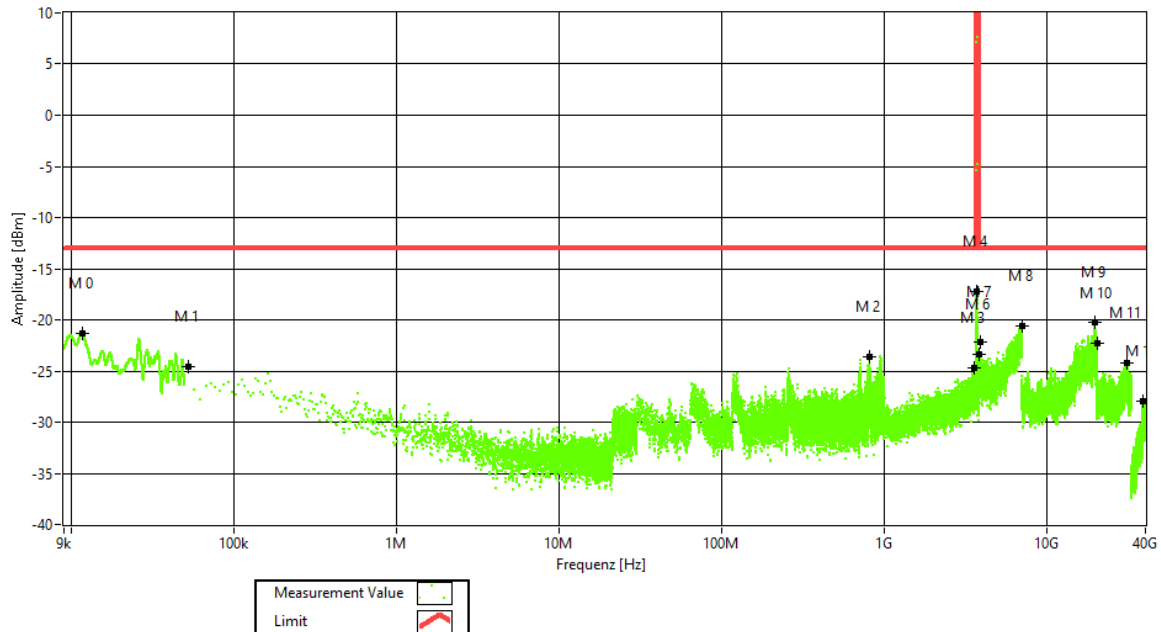
The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

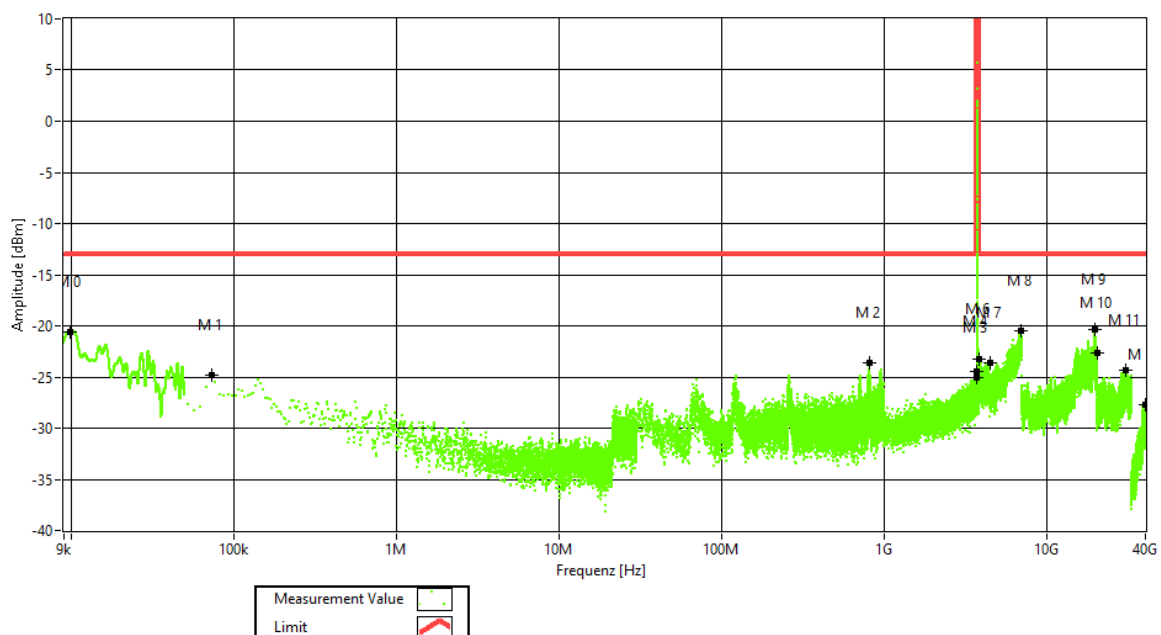
Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.4.4 MEASUREMENT PLOT

Frequency band = TDD 37, segment 1, ANT 2; Test frequency= low; Direction = RF downlink;
Signal type = Wideband



Frequency band = TDD 37, segment 1, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband

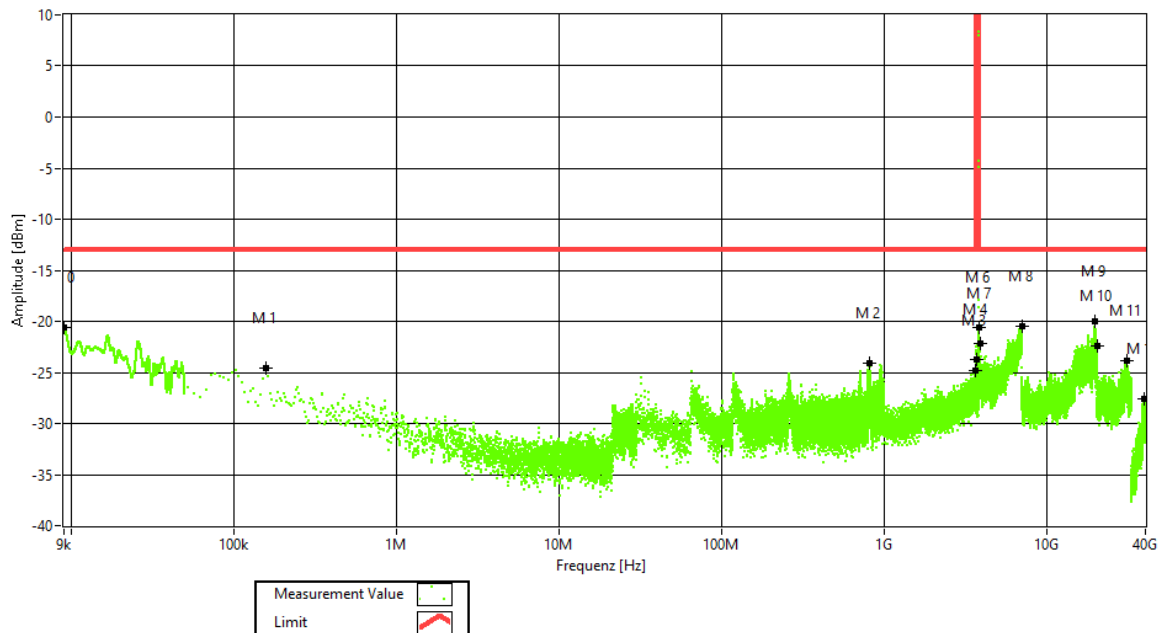


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 1, ANT 2; Test frequency= high; Direction = RF downlink;
Signal type = Wideband

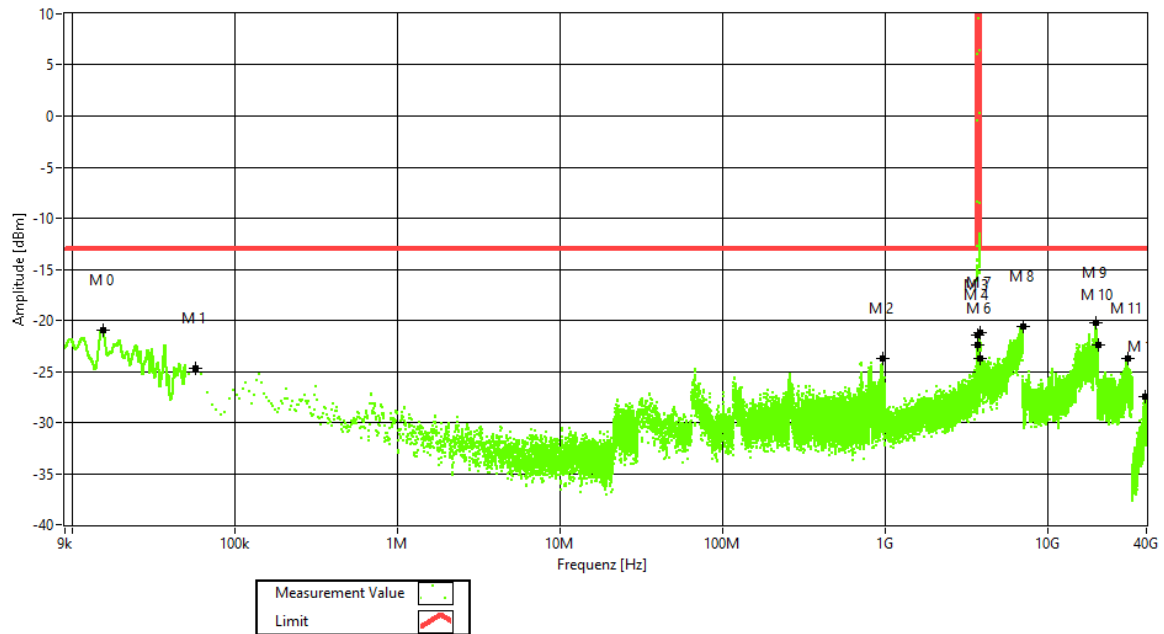


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 1, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband 5G

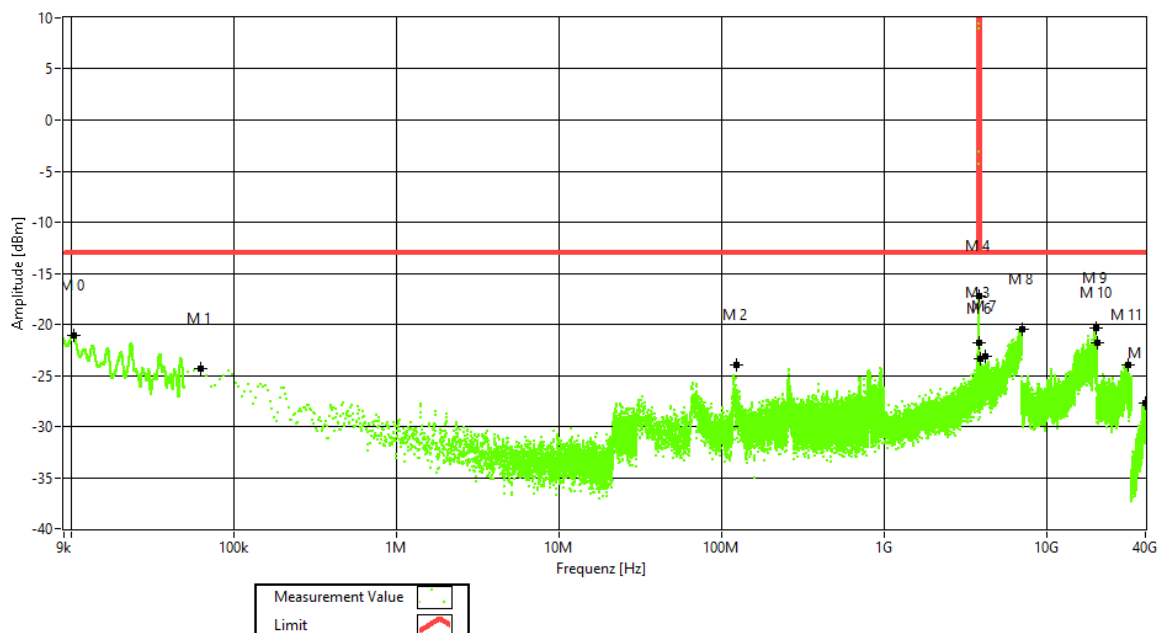


The test results relate only to the tested item. The sample has been provided by the client.
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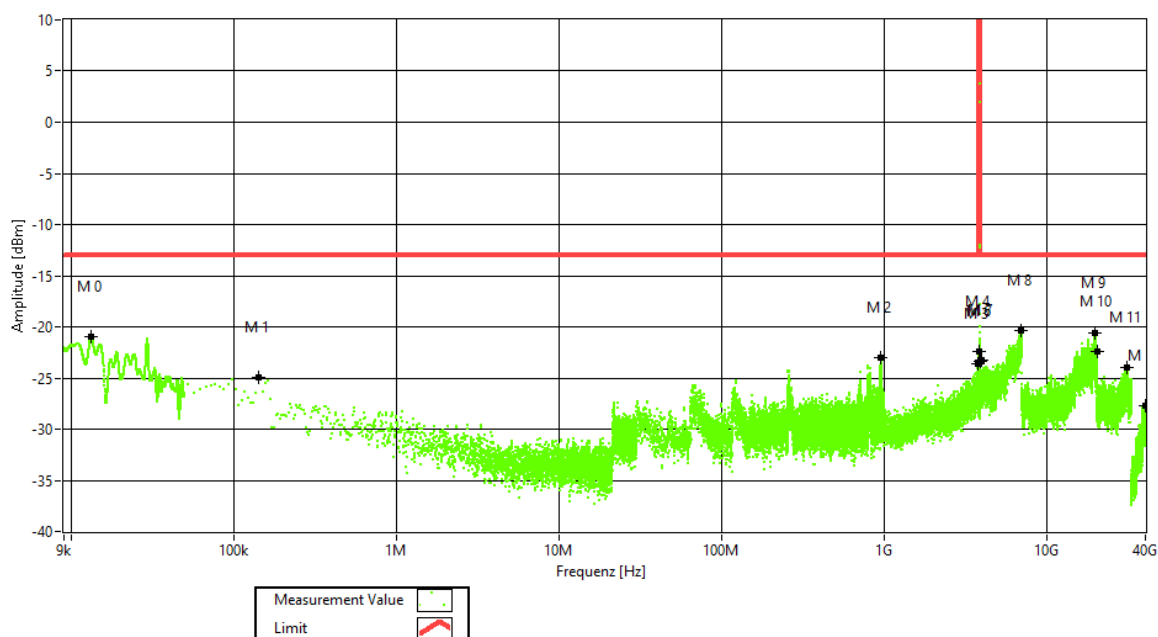
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 2, ANT 2; Test frequency= low; Direction = RF downlink;
Signal type = Wideband



Frequency band = TDD 37, segment 2, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband

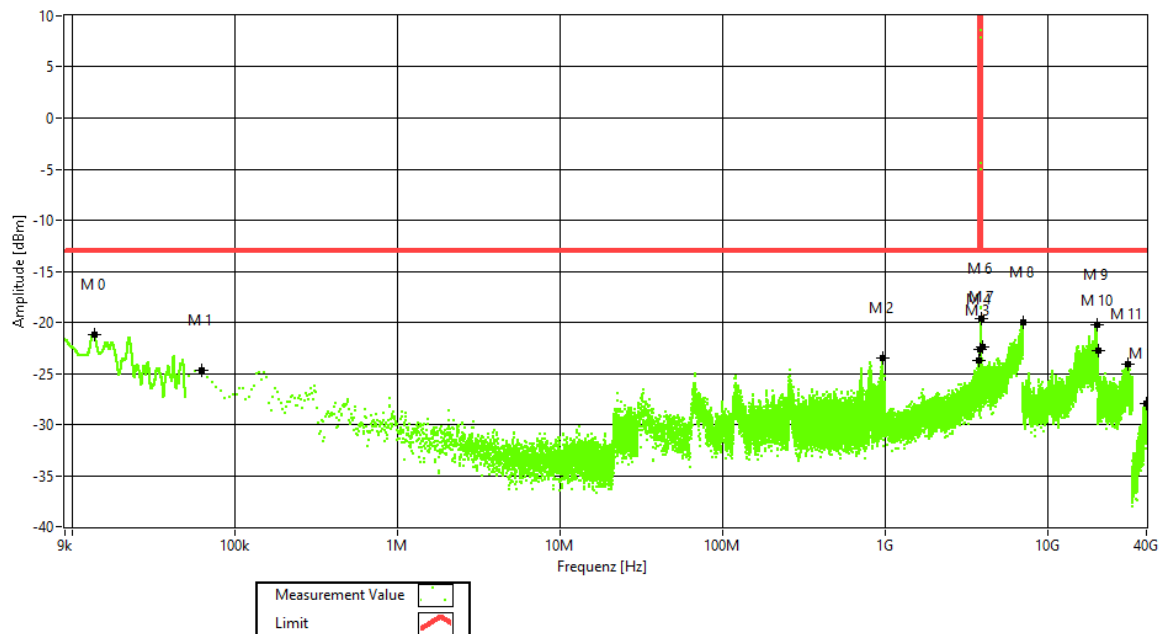


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 2, ANT 2; Test frequency= high; Direction = RF downlink;
Signal type = Wideband

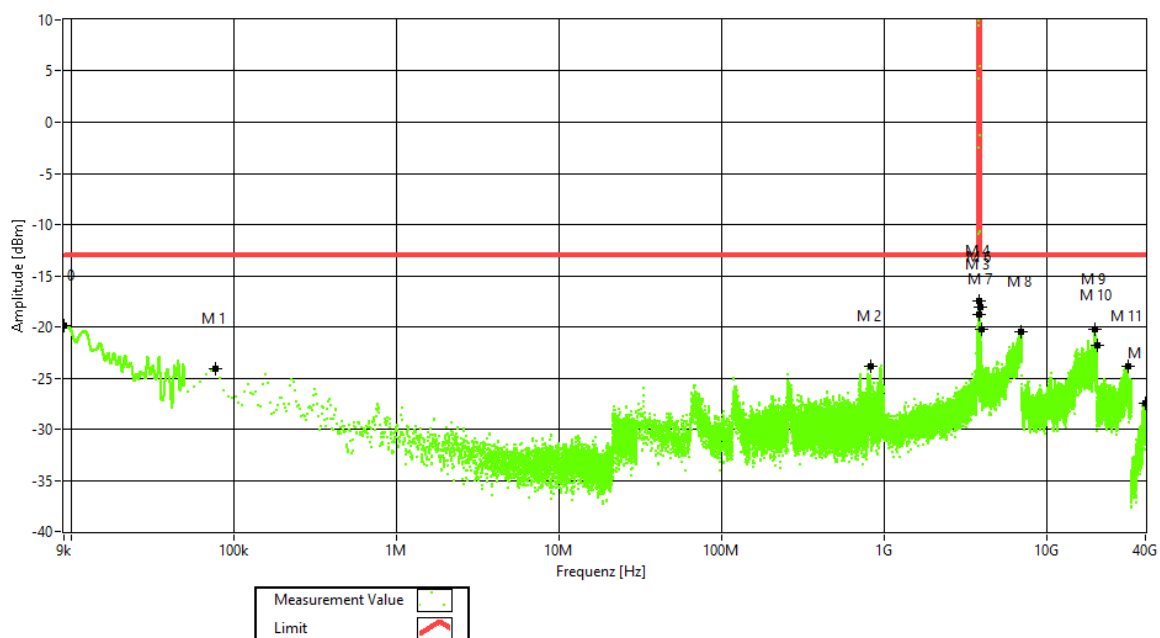


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 2, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband 5G

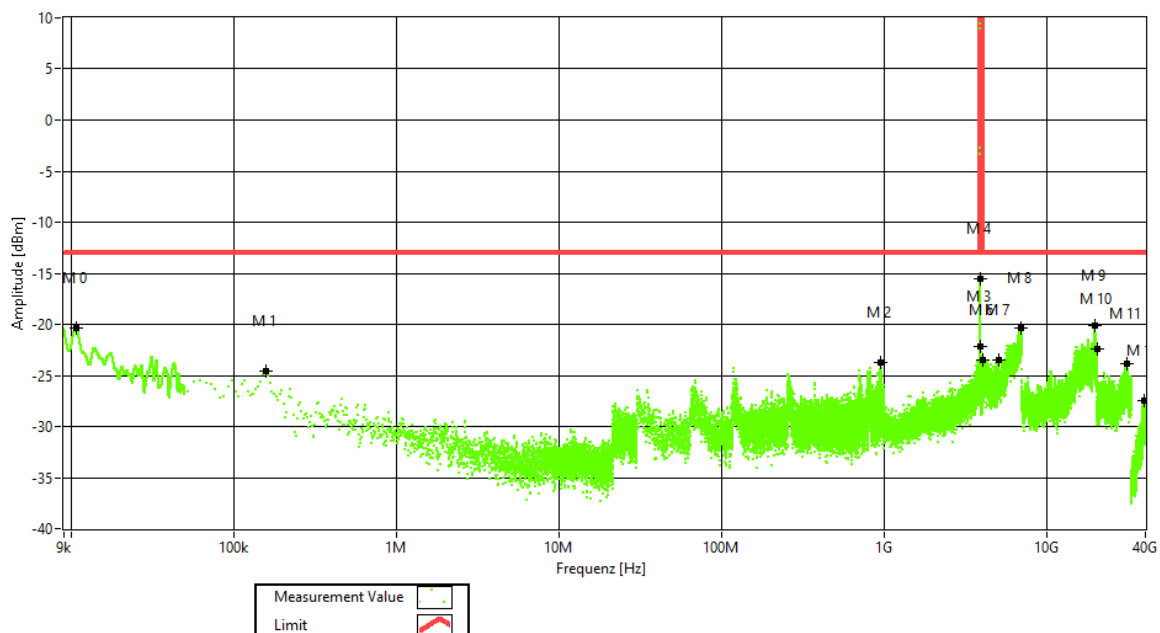


The test results relate only to the tested item. The sample has been provided by the client.
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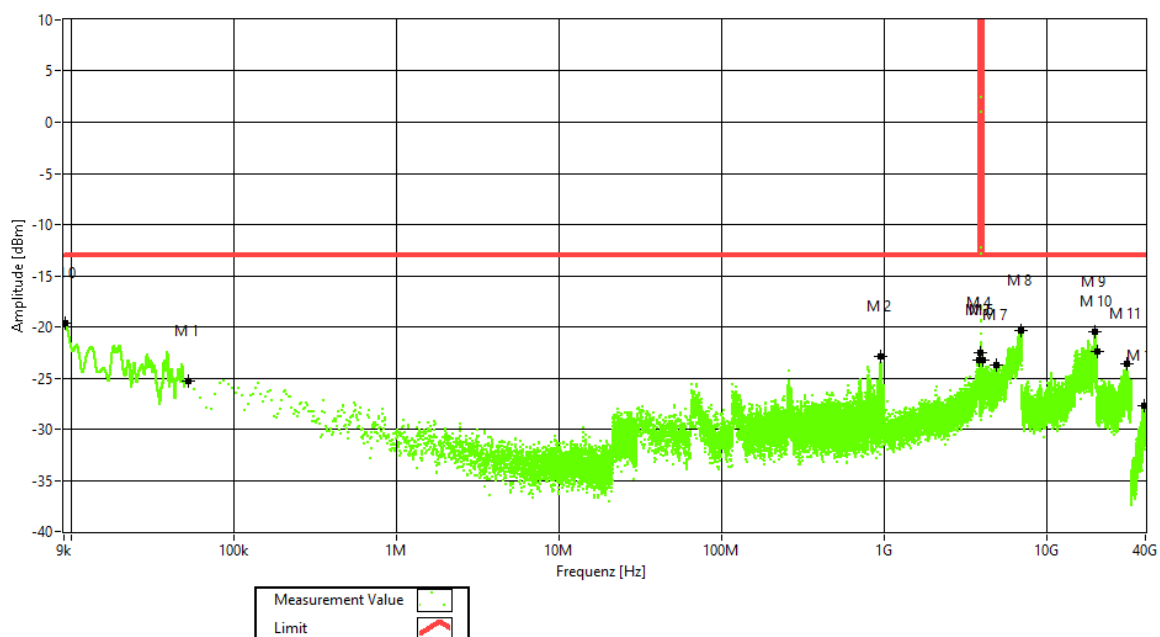
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 3, ANT 2; Test frequency= low; Direction = RF downlink;
Signal type = Wideband



Frequency band = TDD 37, segment 3, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband

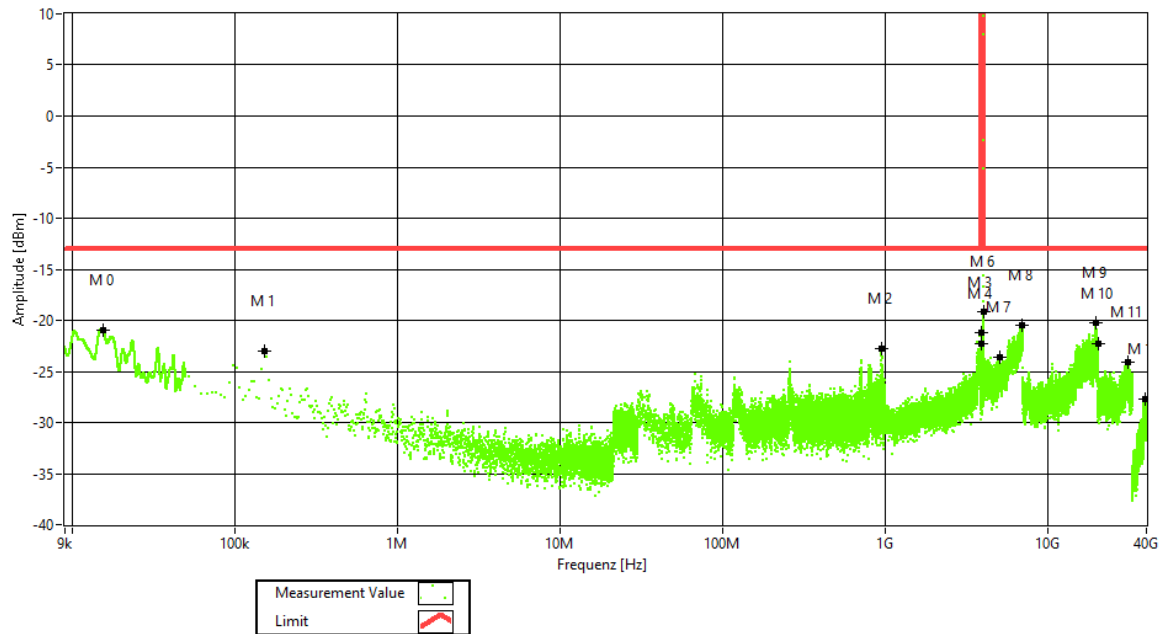


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 3, ANT 2; Test frequency= high; Direction = RF downlink;
Signal type = Wideband

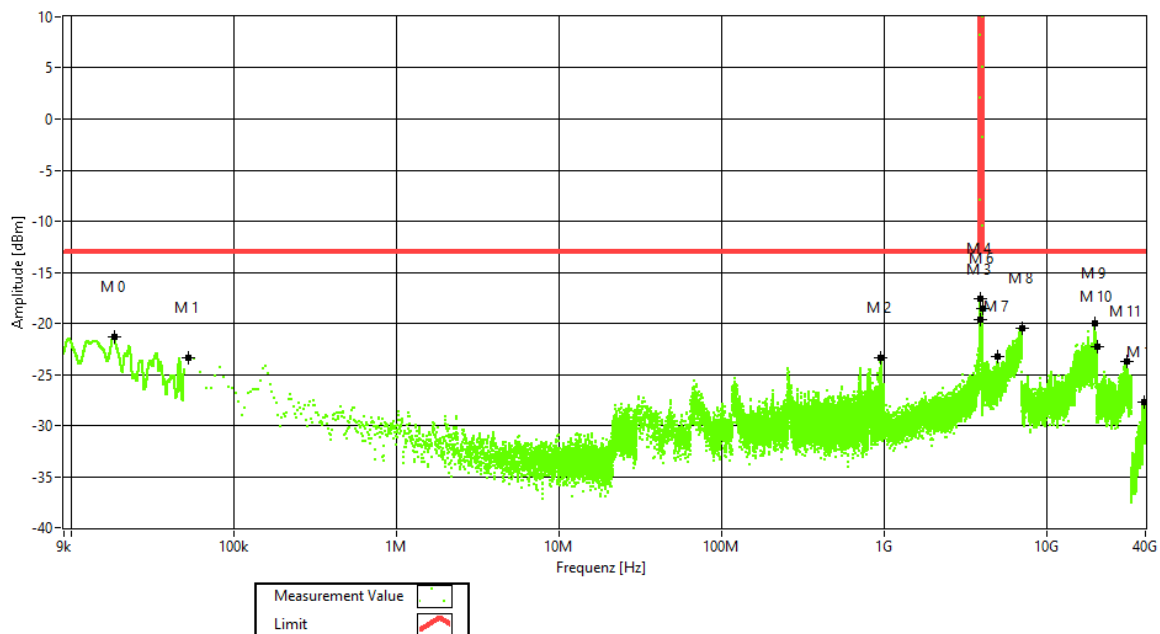


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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 3, ANT 2; Test frequency= mid; Direction = RF downlink;
Signal type = Wideband 5G



5.4.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.
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Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

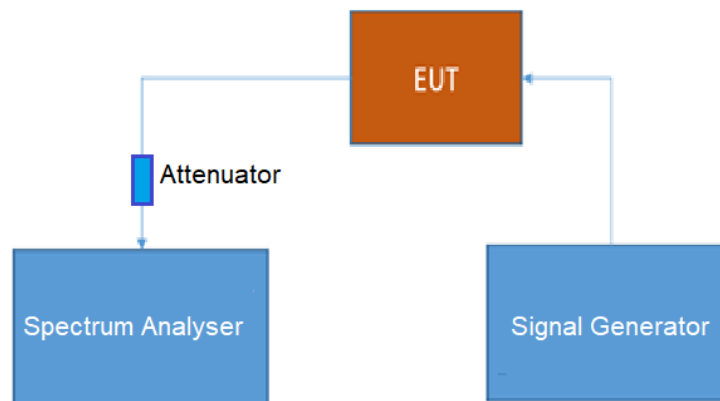
5.5 OUT-OF-BAND EMISSION LIMITS

Standard FCC Part §2.1051, §27.53

The test was performed according to:
ANSI C63.26, KDB 935210 D05 v01r04: 3.6**Test date:** 2025-12-08 – 2025-12-11**Environmental conditions:** 26.5 °C; 30 % r. H. (average values from the test times)**Test engineer:** Thomas Hufnagel**5.5.1 TEST DESCRIPTION**

This test case is intended to demonstrate compliance to the out-of-band emission limit for industrial signal boosters. The limits itself come from the applicable rule part for each operating band.

The EUT was connected to the test setup according to the following diagram:



The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.5.2 TEST REQUIREMENTS/LIMITSAbstract from FCC Part 2:**FCC Part 2.1051; Measurement required: Spurious emissions at antenna terminal:**

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in §2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

Abstract from FCC Part 27:**Part 27; Miscellaneous Wireless Communication Services****Subpart C – Technical standards****§27.53 – Emission limits**

- (I) **3.7 GHz Service.** The following emission limits apply to stations transmitting in the 3700-3980 MHz band:
- (3) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (I)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
 - (4) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The test results relate only to the tested item. The sample has been provided by the client.

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Abstract from ISED RSS-192:

RSS-192; 5.6.1 Unwanted emission limits for outdoor base station, point-to-point and point-to-multipoint equipment

The unwanted emissions of base station, P-P and P-MP equipment shall comply with the following:

- f) the limits in table 2 for all frequencies between 3450-3900 MHz
- g) the limits in table 3 for all frequencies between 3400-3450 MHz
- h) a limit of -13 dBm TRP /MHz or conducted power (sum of conducted power across all antenna connectors), where applicable, for all frequencies below 3400 MHz
- i) the limits in table 4 for all frequencies above 3900 MHz
- j) a limit of -30 dBm TRP /MHz or conducted power (sum of conducted power across all antenna connector), where applicable, for all frequencies between 4200-4400 MHz

Table 2: Unwanted emission limits for outdoor base station, P-P, and P-MP equipment in the band 3450-3900 MHz

Offset frequency from the edge of the frequency block group (MHz)	Non-AAS e.i.r.p. (dBm/5 MHz) per antenna	AAS TRP (dBm/5 MHz)
0-5	Min {(e.i.r.p. _{max} - 40), 21}	Min {(TRP _{max} - 40), 16}
5-10	Min {(e.i.r.p. _{max} - 43), 15}	Min {(TRP _{max} - 43), 12}
>10	Min {(e.i.r.p. _{max} - 43), 13}	Min {(TRP _{max} - 43), 1}

Note: e.i.r.p._{max} and TRP_{max} are expressed in dBm

Table 3: Unwanted emission limits for outdoor base station, P-P, and P-MP equipment in the band 3400-3450 MHz

Frequency range (MHz)	Non-AAS e.i.r.p. (dBm/5 MHz) per antenna	AAS TRP (dBm/5 MHz)
3450-3445	Min {(e.i.r.p. _{max} - 40), 21}	Min {(TRP _{max} - 40), 16}
3445-3440	Min {(e.i.r.p. _{max} - 43), 15}	Min {(TRP _{max} - 43), 12}
3440-3400	Min {(e.i.r.p. _{max} - 43), 13}	Min {(TRP _{max} - 43), 1}

Note: e.i.r.p._{max} and TRP_{max} are expressed in dBm

Table 4: Unwanted emission limits for outdoor base station, P-P and P-MP equipment above 3900 MHz

Offset from 3900 MHz band edge	TRP or conducted power (sum of conducted power across all antenna connectors), where applicable
≤1 MHz	-13 dBm/1% of OB*
>1 MHz	-13 dBm/MHz

*OB is the occupied bandwidth

5.5.3 TEST PROTOCOL

TDD 37. ANT 2; Segment 1; Downlink; Number of input signals = 1							
Signal type	Input power	Band edge	Signal frequency [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]
Wideband	0.3 dB < AGC	upper	3797.5	-2.5	-25.5	-13	12.5
Wideband	3 dB > AGC	upper	3797.5	0.8	-25.1	-13	12.1
Wideband 5G	0.3 dB < AGC	upper	3750.0	-2.8	-14.5 #	-13	1.5
Wideband 5G	3 dB > AGC	upper	3750.0	0.2	-15.2 #	-13	2.2
Wideband	0.3 dB < AGC	lower	3702.5	-3.3	-26.7	-13	13.7
Wideband	3 dB > AGC	lower	3702.5	0.0	-26.4	-13	13.4
Wideband 5G	0.3 dB < AGC	lower	3750.0	-3.6	-15.5 #	-13	2.5
Wideband 5G	3 dB > AGC	lower	3750.0	-0.6	-15.6 #	-13	2.6

#: Measured value increased by 7 dB according to ANSI C63.26-2015 5.7.2.

TDD 37. ANT 2; Segment 1; Downlink; Number of input signals = 2								
Signal type	Input power	Band edge	Signal frequency f1 [MHz]	Signal frequency f2 [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]
WB*	0.3 dB < AGC	upper	3797.5	3795.0	-3.3	-27.4	-13	14.4
WB*	3 dB > AGC	upper	3797.5	3795.0	0.0	-27.1	-13	14.1
WB*	0.3 dB < AGC	lower	3702.5	3705.0	-3.3	-27.3	-13	14.3
WB*	3 dB > AGC	lower	3702.5	3705.0	0.0	-27.7	-13	14.7

*: Explanations concerning table with two input signals:

"WB" means Wideband.

TDD 37, ANT 2; Segment 2; Downlink; Number of input signals = 1							
Signal type	Input power	Band edge	Signal frequency [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]
Wideband	0.3 dB < AGC	upper	3887.5	-3.3	-26.1	-13	13.1
Wideband	3 dB > AGC	upper	3887.5	0.0	-26.4	-13	13.4
Wideband 5G	0.3 dB < AGC	upper	3840.0	-3.6	-14.5 #	-13	1.5
Wideband 5G	3 dB > AGC	upper	3840.0	-0.6	-15.2 #	-13	2.2
Wideband	0.3 dB < AGC	lower	3792.5	-3.3	-24.5	-13	11.5
Wideband	3 dB > AGC	lower	3792.5	0.0	-25.8	-13	12.8
Wideband 5G	0.3 dB < AGC	lower	3840.0	-3.6	-15.2 #	-13	2.2
Wideband 5G	3 dB > AGC	lower	3840.0	-0.6	-15.2 #	-13	2.2

#: Measured value increased by 7 dB according to ANSI C63.26-2015 5.7.2.

TDD 37, ANT 2; Segment 2; Downlink; Number of input signals = 2								
Signal type	Input power	Band edge	Signal frequency [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]	Signal type
WB*	0.3 dB < AGC	upper	3887.5	3885.0	-3.1	-27.3	-13	14.3
WB*	3 dB > AGC	upper	3887.5	3885.0	0.2	-27.3	-13	14.3
WB*	0.3 dB < AGC	lower	3792.5	3795.0	-3.3	-26.7	-13	13.7
WB*	3 dB > AGC	lower	3792.5	3795.0	0.0	-27.3	-13	14.3

*: Explanations concerning table with two input signals:

"WB" means Wideband.

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Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

TDD 37, ANT 2; Segment 3; Downlink; Number of input signals = 1							
Signal type	Input power	Band edge	Signal frequency [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]
Wideband	0.3 dB < AGC	upper	3977.5	-3.3	-24.7	-13	11.7
Wideband	3 dB > AGC	upper	3977.5	0.0	-25.3	-13	12.3
Wideband 5G	0.3 dB < AGC	upper	3930.0	-3.6	-14.8 #	-13	1.8
Wideband 5G	3 dB > AGC	upper	3930.0	-0.6	-14.8 #	-13	1.8
Wideband	0.3 dB < AGC	lower	3882.5	-3.1	-24.9	-13	11.9
Wideband	3 dB > AGC	lower	3882.5	0.2	-26.0	-13	13.0
Wideband 5G	0.3 dB < AGC	lower	3930.0	-3.4	-14.5 #	-13	1.5
Wideband 5G	3 dB > AGC	lower	3930.0	-0.4	-14.8 #	-13	1.8

#: Measured value increased by 7 dB according to ANSI C63.26-2015 5.7.2.

TDD 37, ANT 2; Segment 3; Downlink; Number of input signals = 2								
Signal type	Input power	Band edge	Signal frequency [MHz]	Input power [dBm]	Maximum out-of-band power [dBm]	Limit out-of-band power [dBm]	Margin to limit [dB]	Signal type
WB*	0.3 dB < AGC	upper	3977.50	3975.0	-3.1	-26.6	-13	13.6
WB*	3 dB > AGC	upper	3977.50	3975.0	0.2	-26.0	-13	13.0
WB*	0.3 dB < AGC	lower	3882.50	3885.0	-3.1	-27.3	-13	14.3
WB*	3 dB > AGC	lower	3882.50	3885.0	0.2	-26.6	-13	13.6

Remark: Please see next sub-clause for the measurement plot.

*: Explanations concerning table with two input signals:

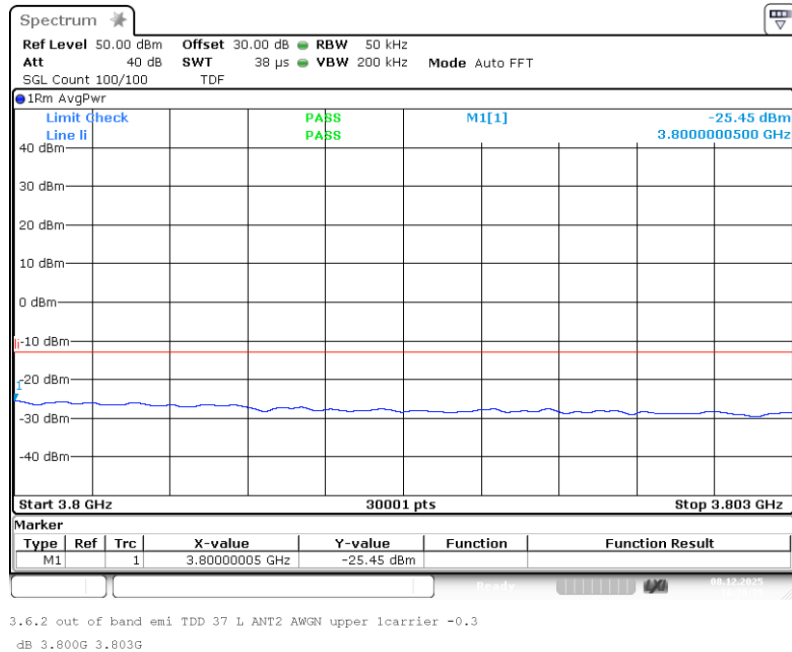
"WB" means Wideband.

Test Report No.: 25-0163-EMC-TR-25-0150-V01

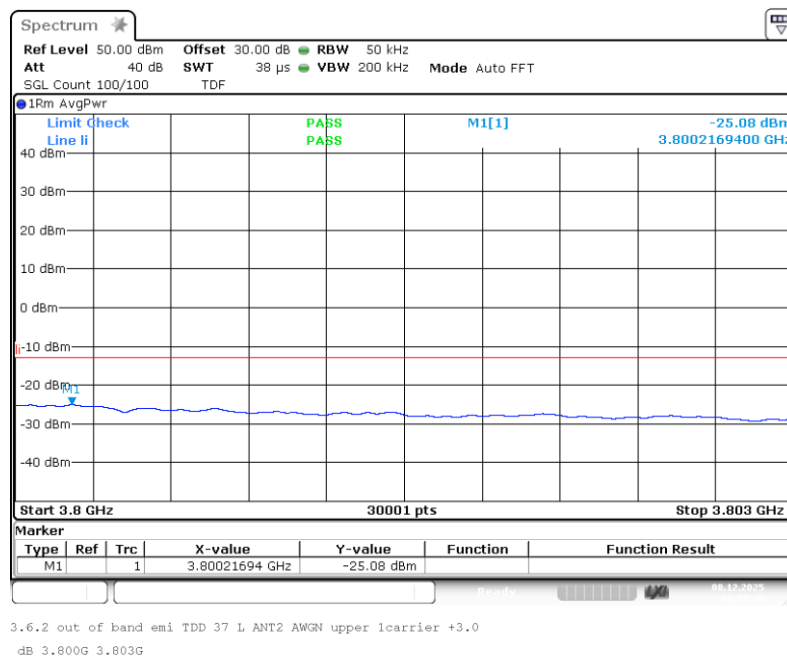
Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.5.4 MEASUREMENT PLOT

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1

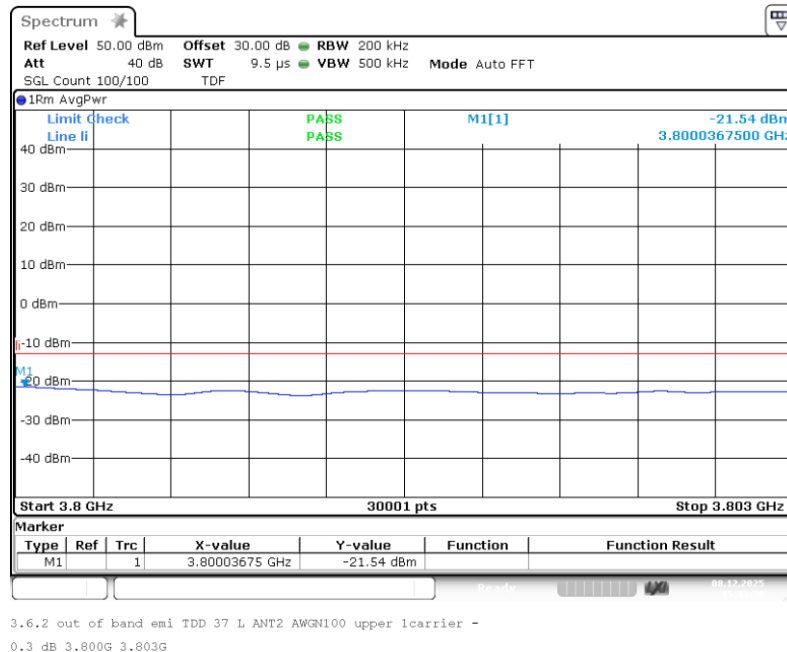


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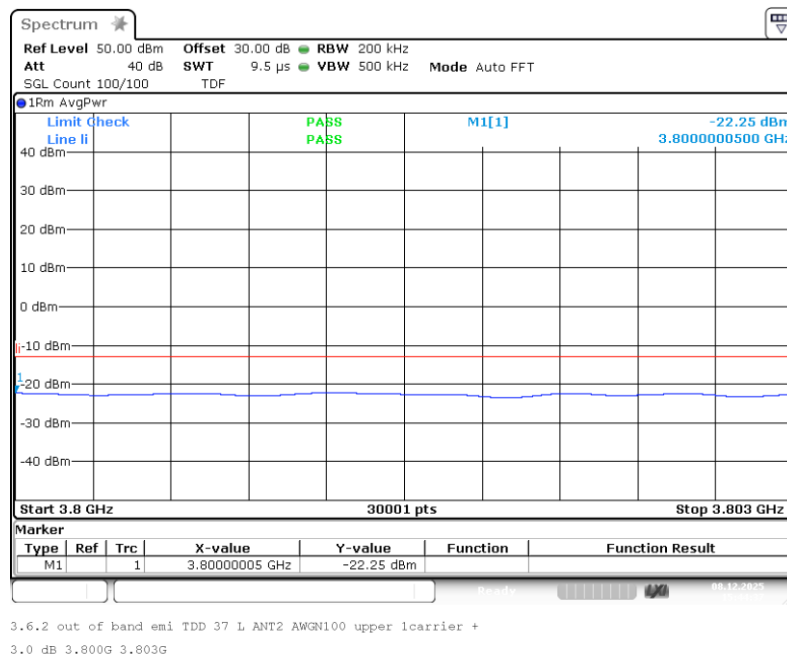
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1

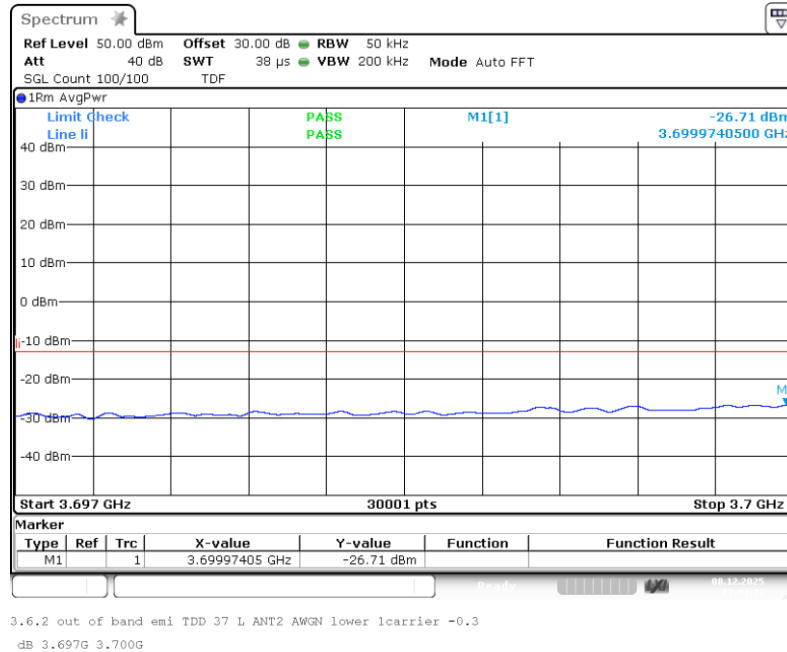


The test results relate only to the tested item. The sample has been provided by the client.
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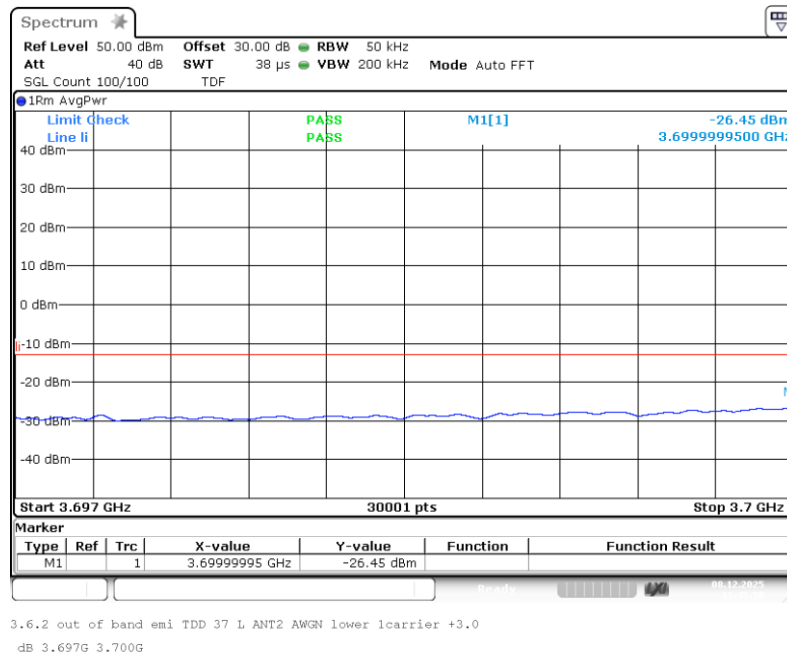
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1

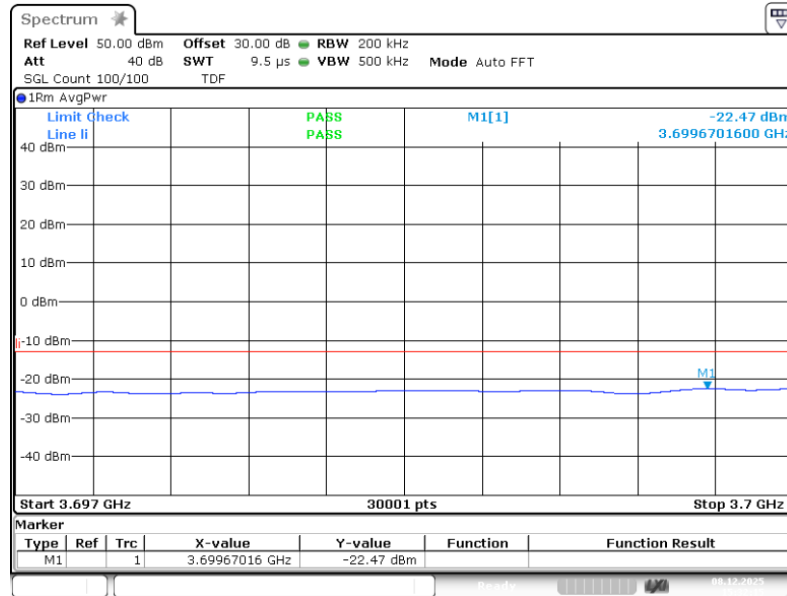


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

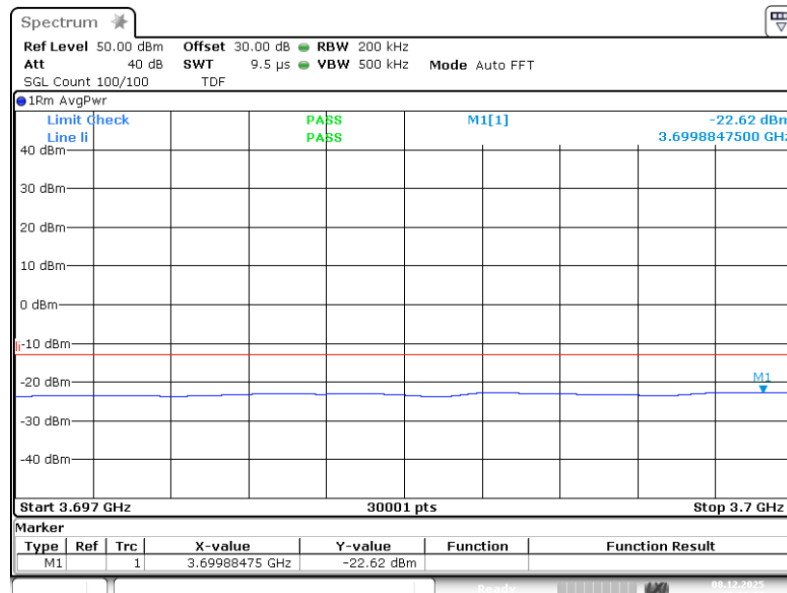
Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



3.6.2 out of band emi TDD 37 L ANT2 AWGN100 lower lcarrier -
0.3 dB 3.697G 3.700G

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1



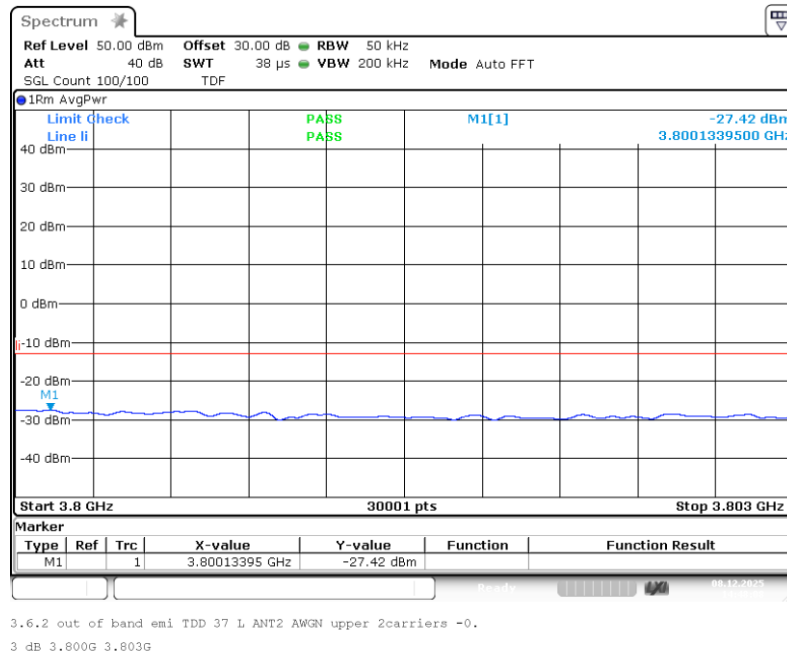
3.6.2 out of band emi TDD 37 L ANT2 AWGN100 lower lcarrier +
3.0 dB 3.697G 3.700G

The test results relate only to the tested item. The sample has been provided by the client.
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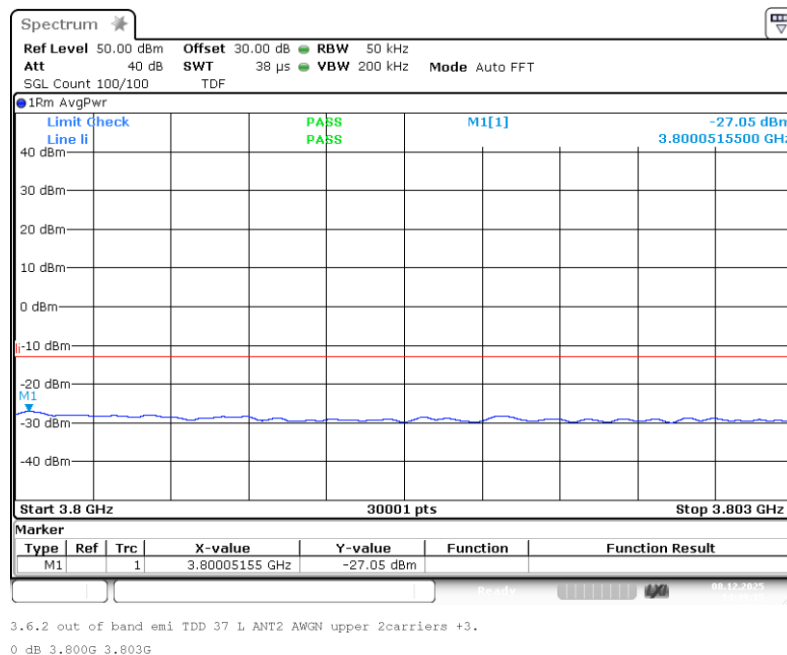
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2

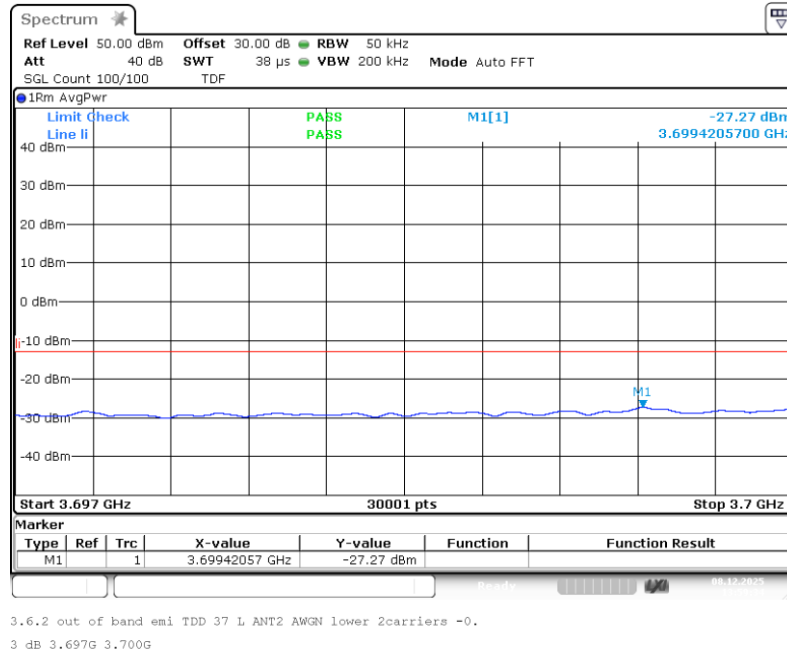


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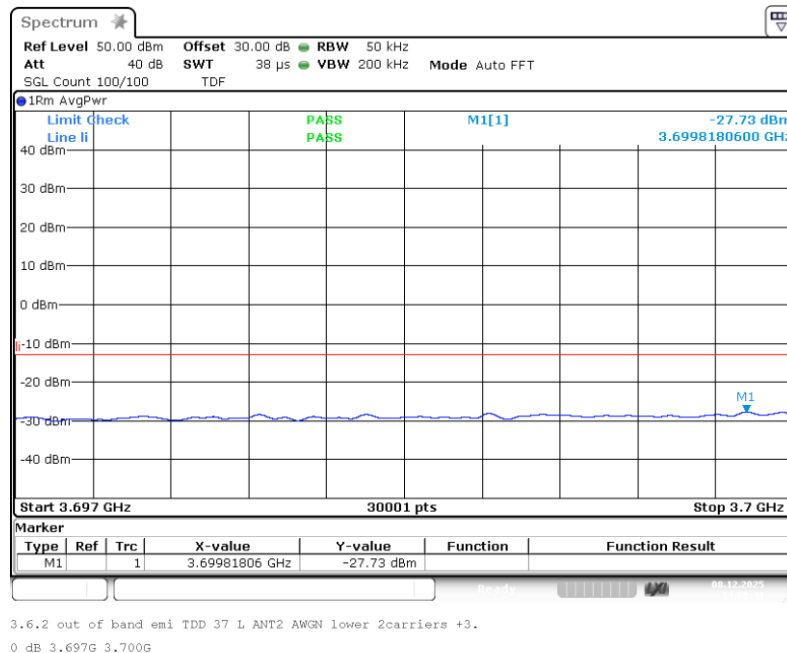
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



Band: TDD 37, segment 1, ANT 2; Frequency: 3.7000 GHz to 3.8000 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2

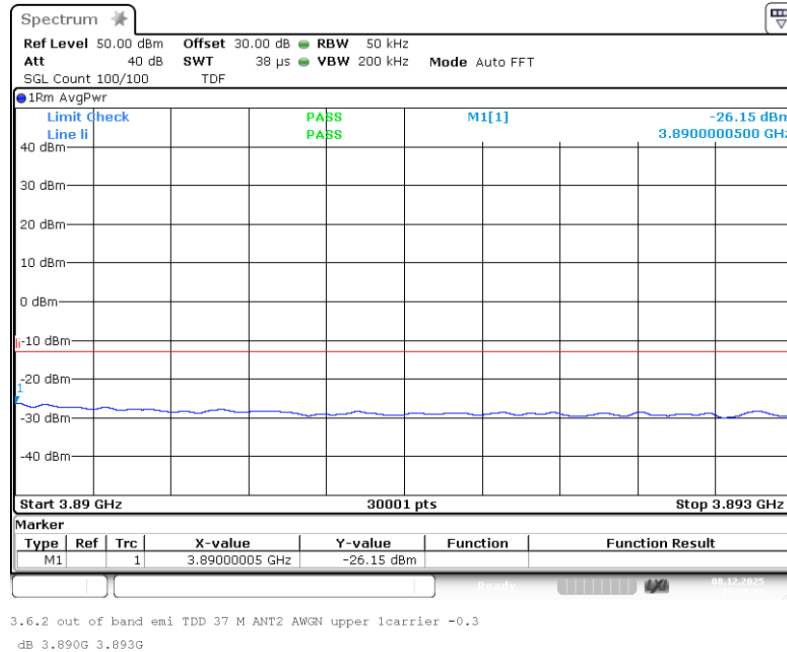


The test results relate only to the tested item. The sample has been provided by the client.
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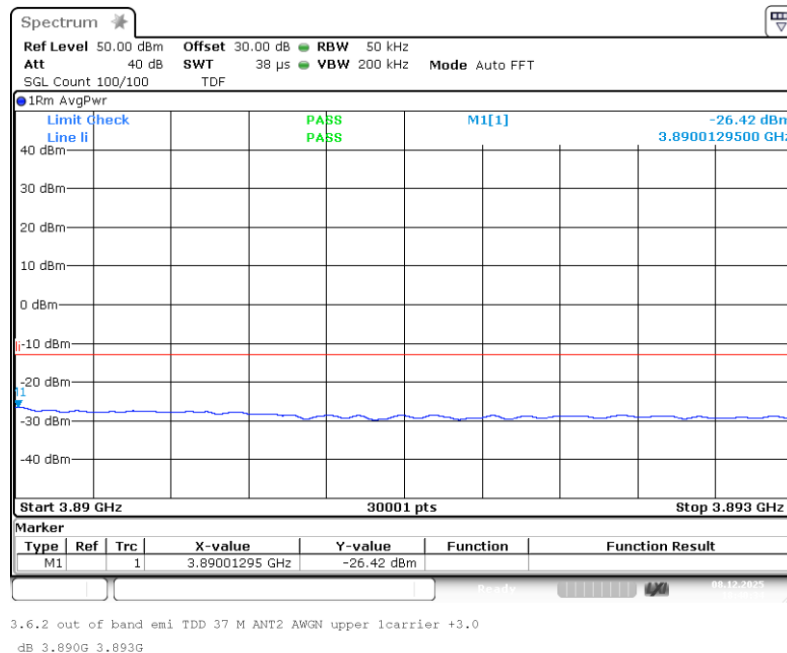
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1

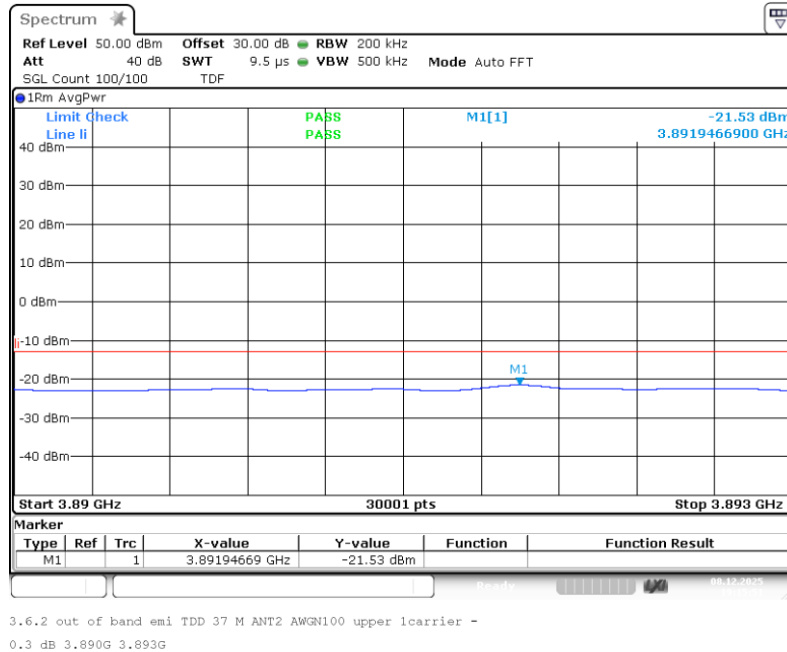


The test results relate only to the tested item. The sample has been provided by the client.
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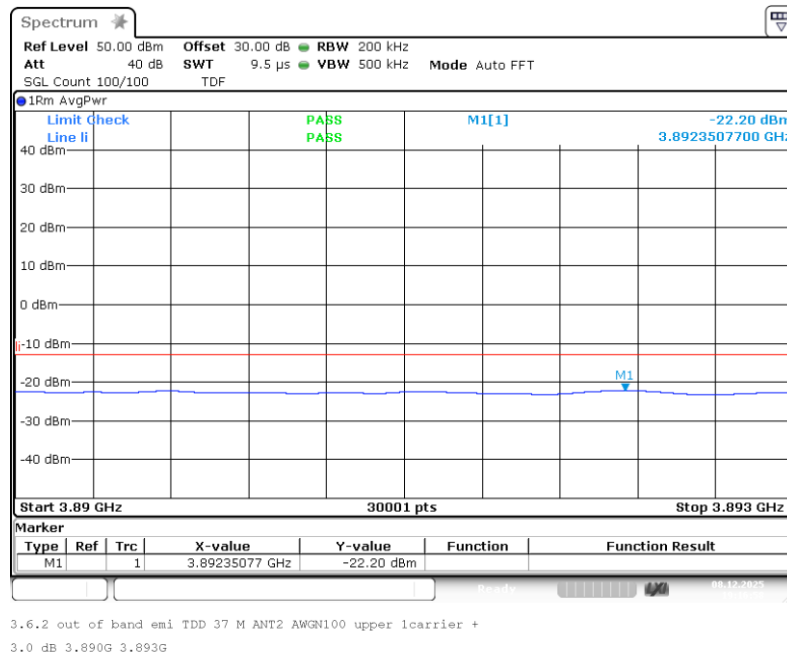
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1

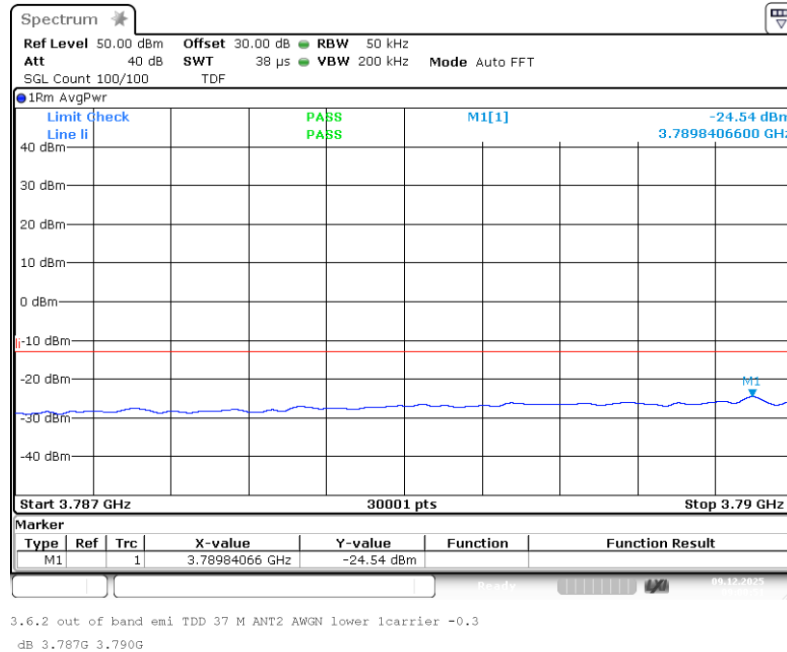


The test results relate only to the tested item. The sample has been provided by the client.
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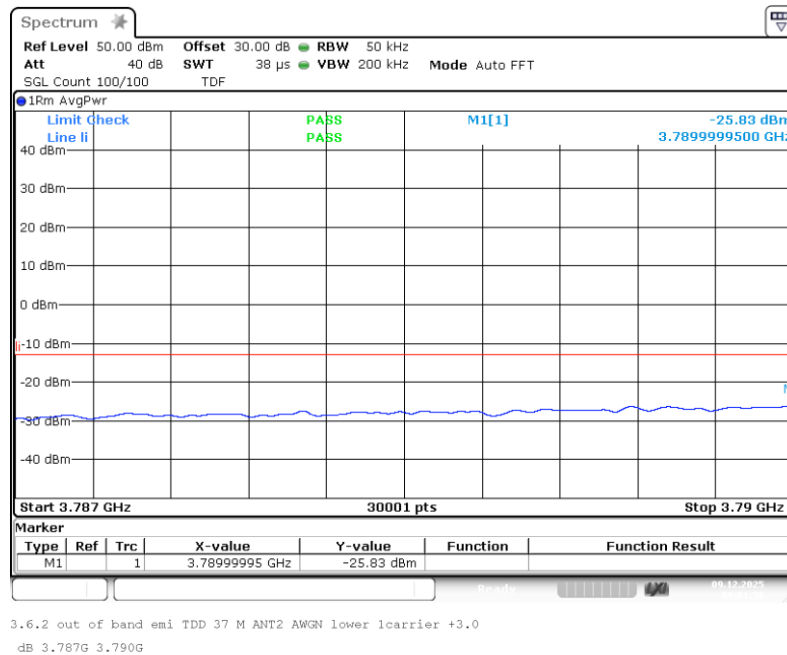
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1



The test results relate only to the tested item. The sample has been provided by the client.
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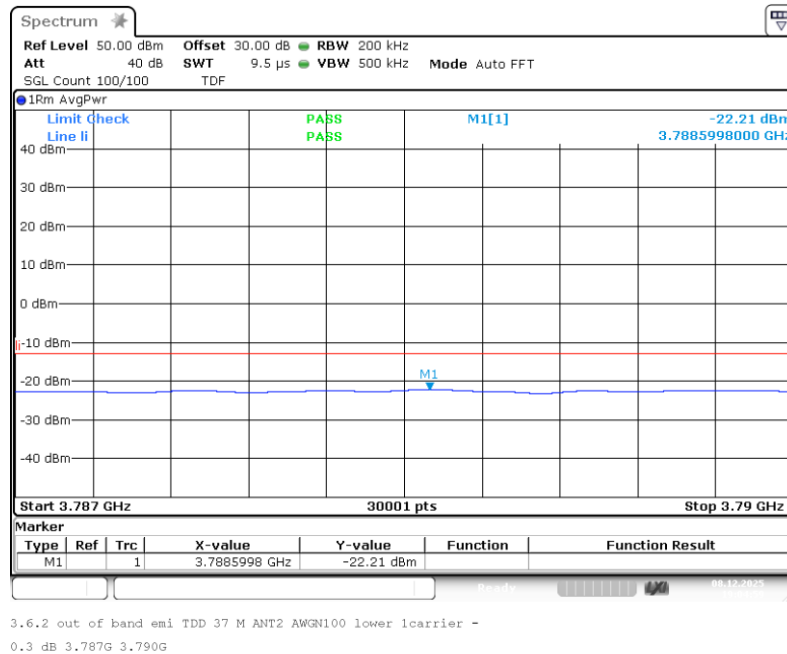


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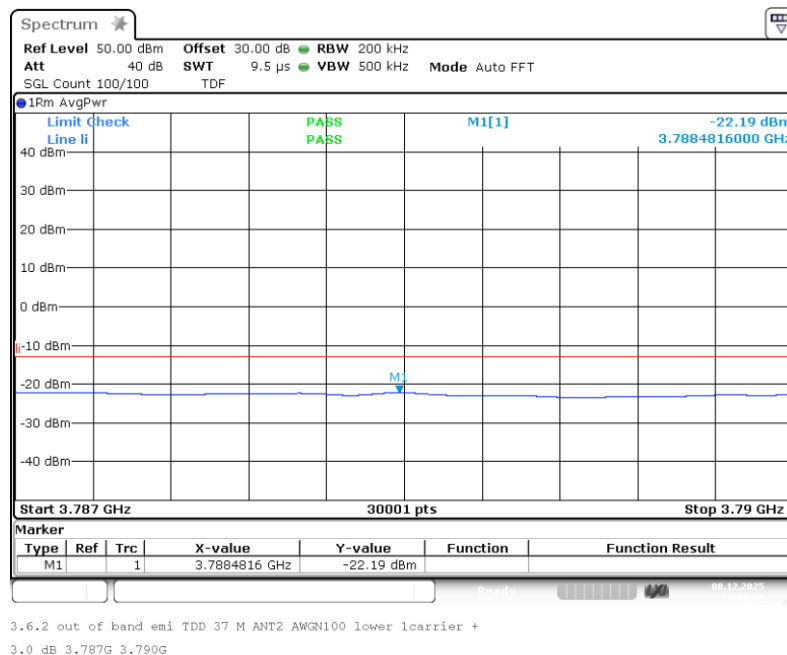
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1

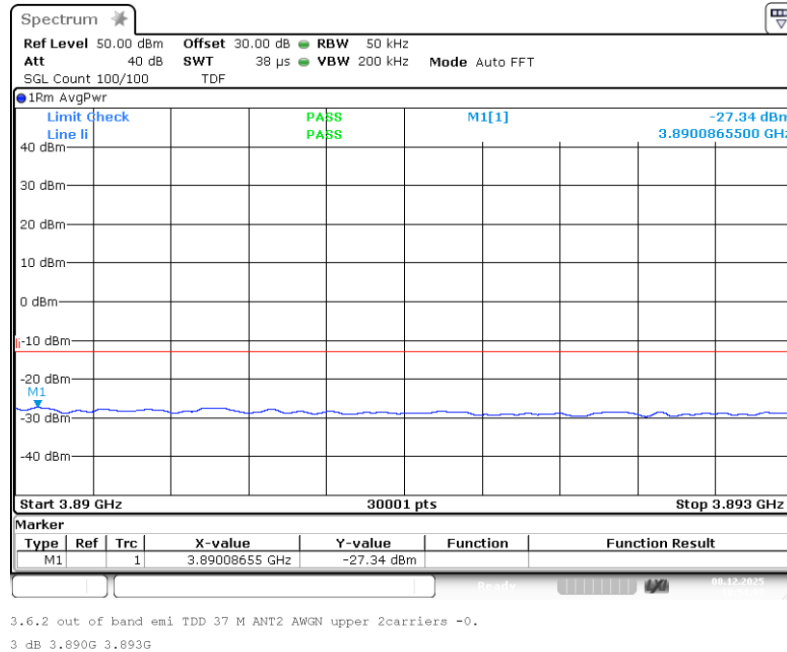


The test results relate only to the tested item. The sample has been provided by the client.
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

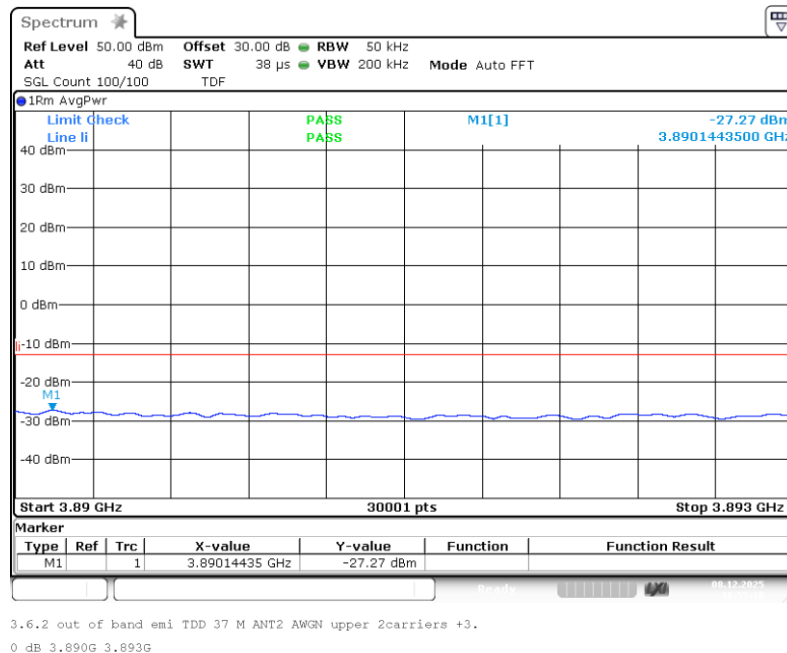
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2

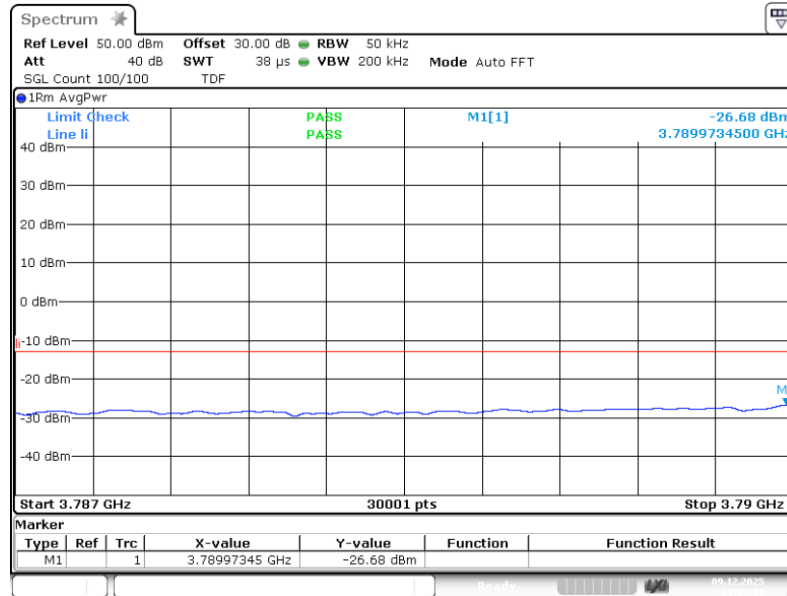


The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

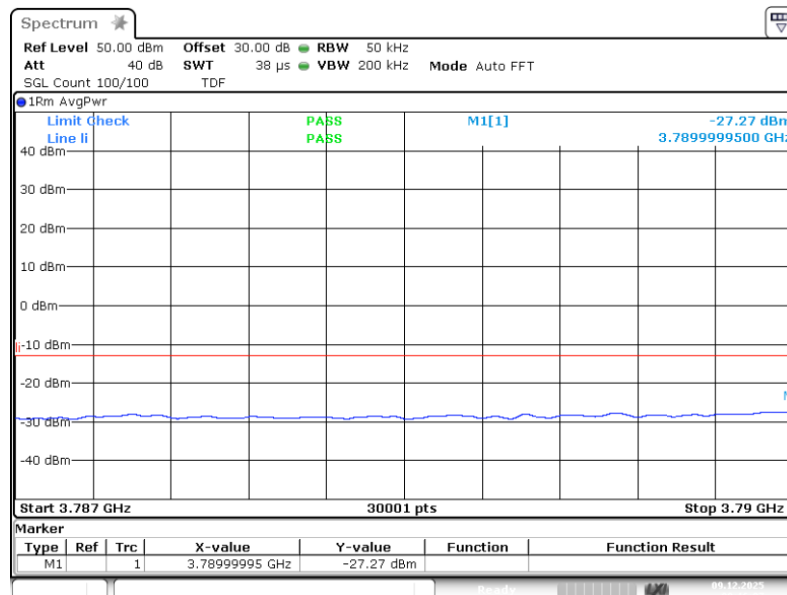
Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi TDD 37 M ANT2 AWGN lower 2carriers -0.
3 dB 3.787G 3.790G

Band: TDD 37, segment 2, ANT 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2



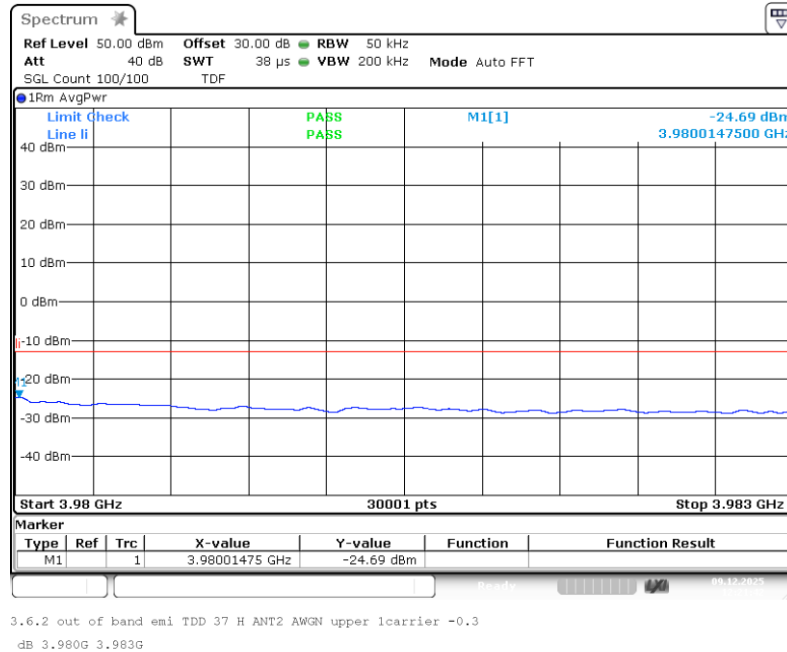
3.6.2 out of band emi TDD 37 M ANT2 AWGN lower 2carriers +3.
0 dB 3.787G 3.790G

The test results relate only to the tested item. The sample has been provided by the client.
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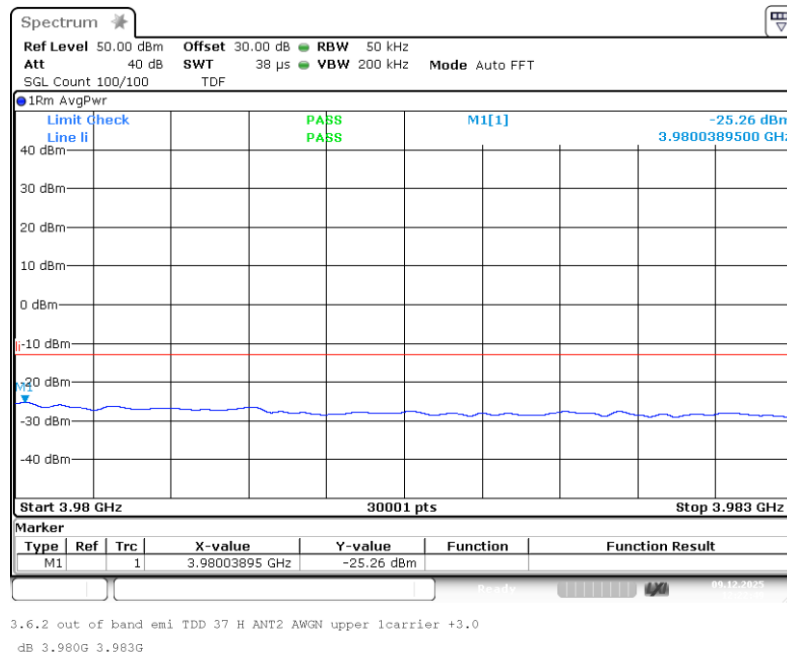
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1

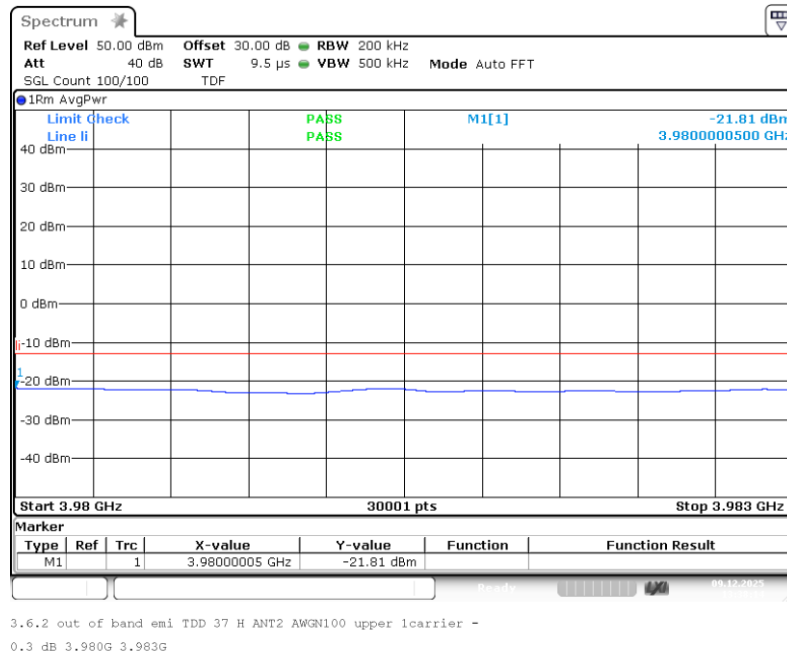


The test results relate only to the tested item. The sample has been provided by the client.
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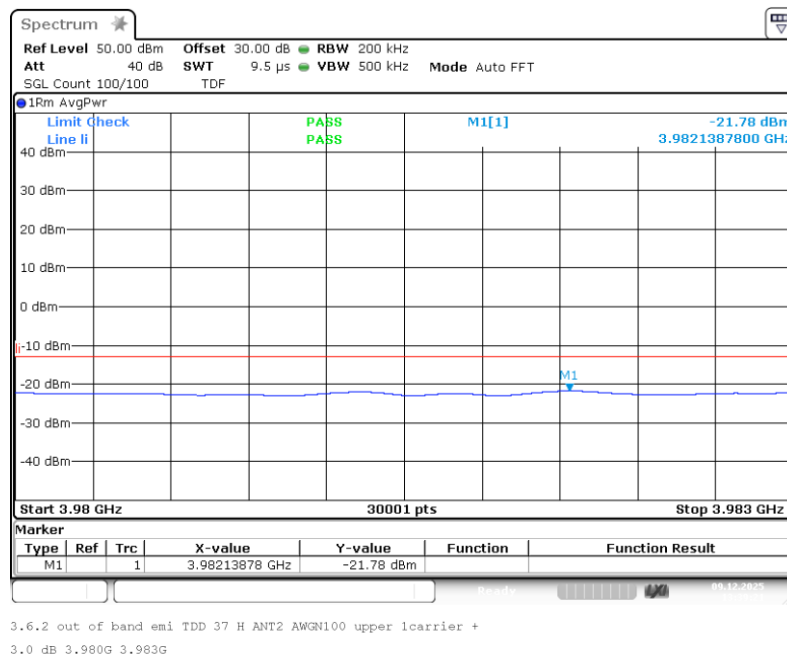
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1

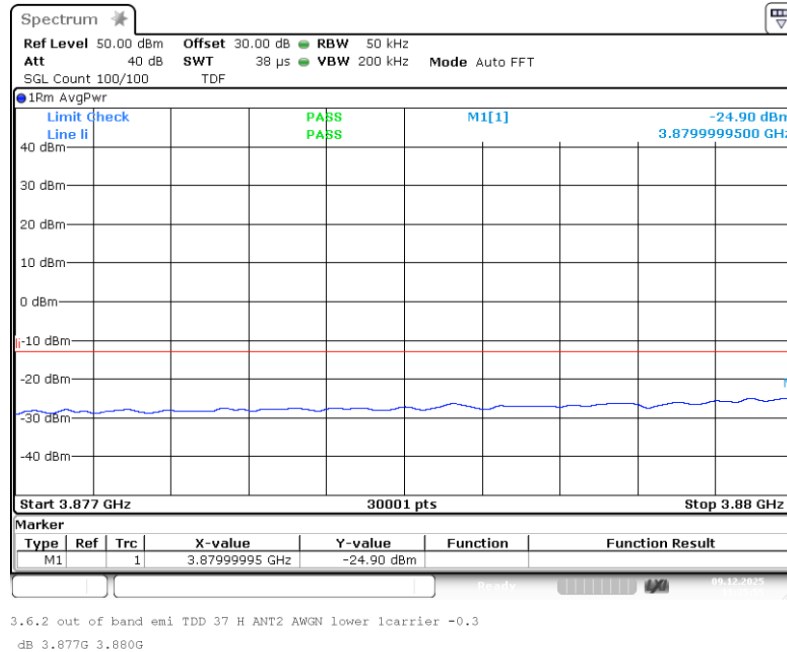


The test results relate only to the tested item. The sample has been provided by the client.
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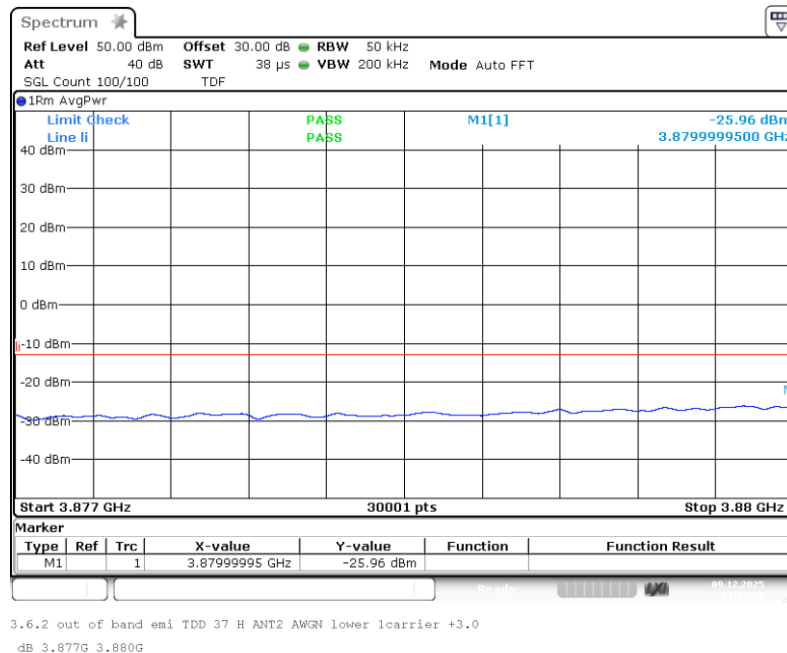
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 1



The test results relate only to the tested item. The sample has been provided by the client.
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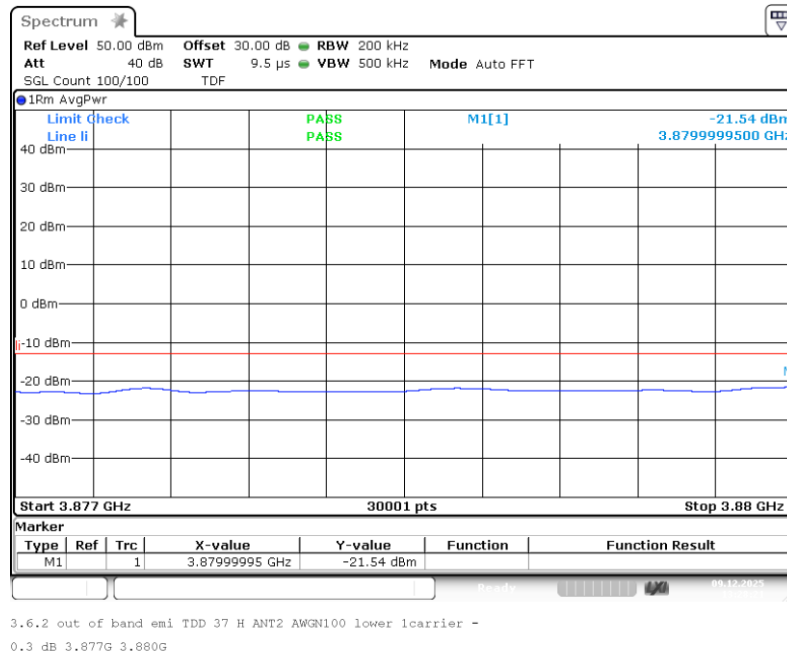


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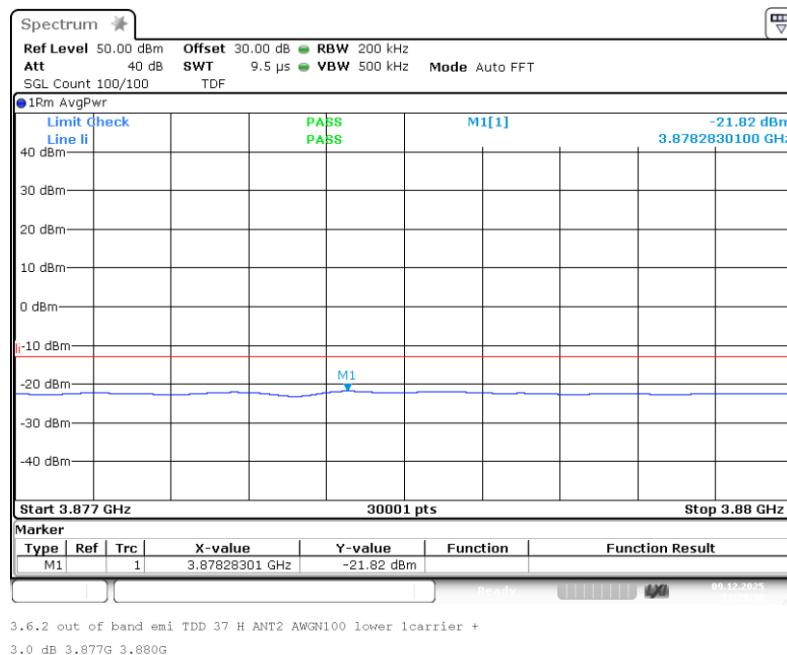
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN100; Input power = 0.3 dB < AGC; Number of signals 1



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN100; Input power = 3 dB > AGC; Number of signals 1



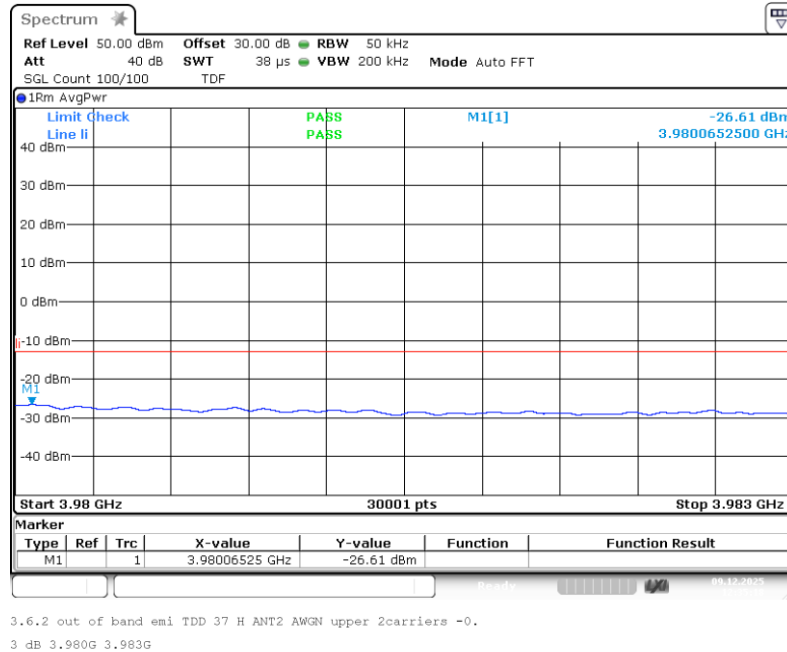
The test results relate only to the tested item. The sample has been provided by the client.
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2025-0163-EMC-TR-25-0150-V01

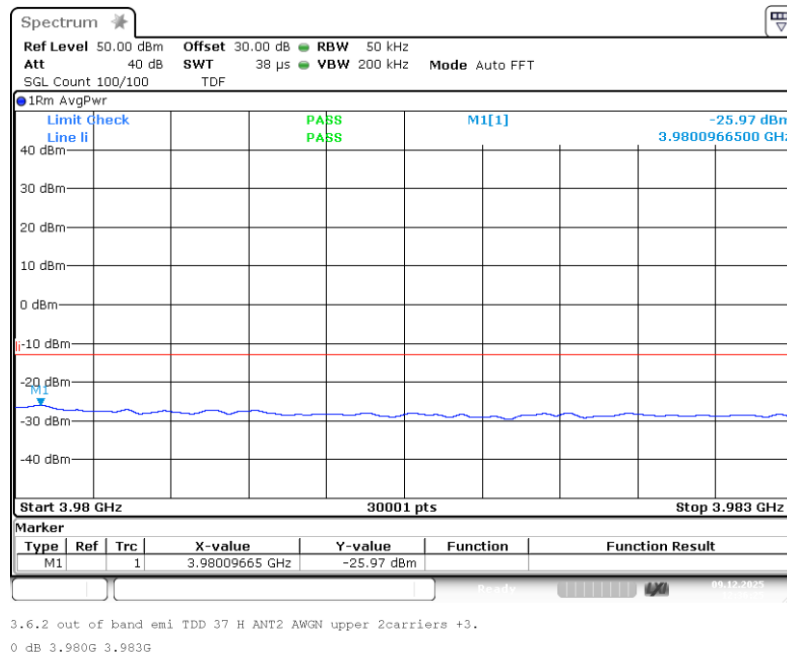
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: upper;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2

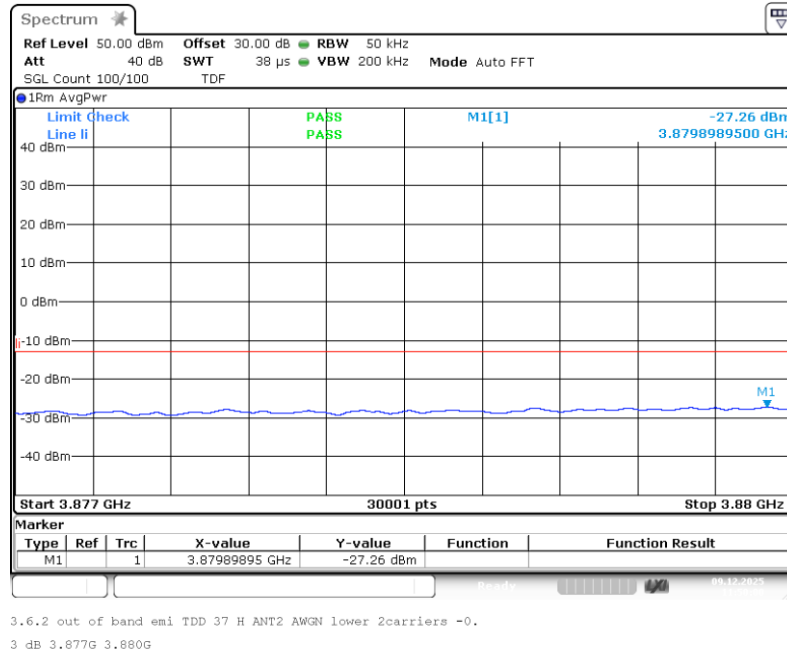


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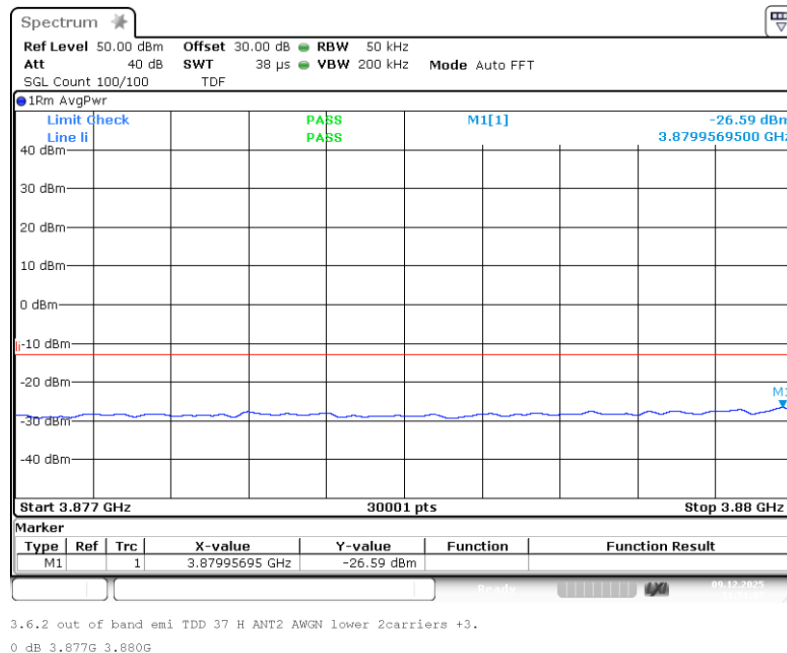
Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN; Input power = 0.3 dB < AGC; Number of signals 2



Band: TDD 37, segment 3, ANT 2; Frequency: 3.8800 GHz to 3.9800 GHz; Band edge: lower;
Mod: AWGN; Input power = 3 dB > AGC; Number of signals 2



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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

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5.5.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.
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2025-0163-EMC-TR-25-0150-V01

Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

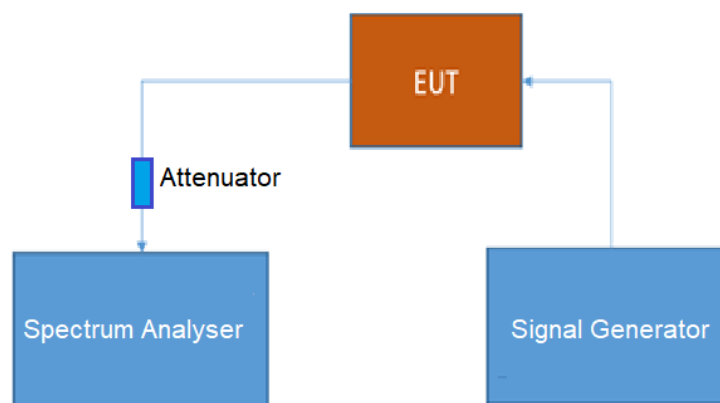
5.6 OUT-OF-BAND REJECTION

Standard FCC Part 27

The test was performed according to:
ANSI C63.26**Test date:** 2025-07-17/2025-07-18/2025-07-22**Environmental conditions:** 25.6 °C; 36 % r. H./26.7 °C; 40 % r. H./26.8 °C; 43 % r. H.**Test engineer:** Thomas Hufnagel**5.6.1 TEST DESCRIPTION**

This test case is intended to demonstrate compliance to the out-of-band rejection test case for industrial signal boosters.

The EUT was connected to the test setup according to the following diagram:



The attenuation of the measuring and stimulus path are known for each measured frequency and are considered.

The Spectrum Analyzer settings can be directly found in the measurement diagrams.

5.6.2 TEST REQUIREMENTS/LIMITS

For this test case exists no applicable limit

5.6.3 TEST PROTOCOL

TDD 37, segment 1, ANT 2; Downlink				
Highest power frequency [MHz]	Output power [dBm]	Lower highest power -20 dB frequency [MHz]	Upper highest power -20 dB frequency [MHz]	20 dB bandwidth [MHz]
3798.0	31.92	3696.425	3803.725	107.300

TDD 37, segment 2, ANT 2; Downlink				
Highest power frequency [MHz]	Output power [dBm]	Lower highest power -20 dB frequency [MHz]	Upper highest power -20 dB frequency [MHz]	20 dB bandwidth [MHz]
3883.0	32.11	3786.375	3893.725	107.350

TDD 37, segment 3, ANT 2; Downlink				
Highest power frequency [MHz]	Output power [dBm]	Lower highest power -20 dB frequency [MHz]	Upper highest power -20 dB frequency [MHz]	20 dB bandwidth [MHz]
3883.0	33.25	3876.375	3983.625	107.250

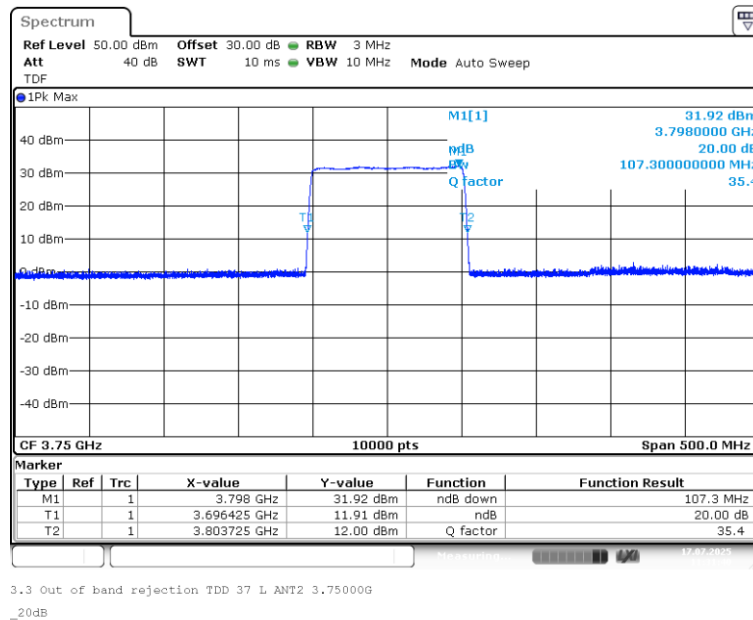
Remark: Please see next sub-clause for the measurement plots.

Test Report No.: 25-0163-EMC-TR-25-0150-V01

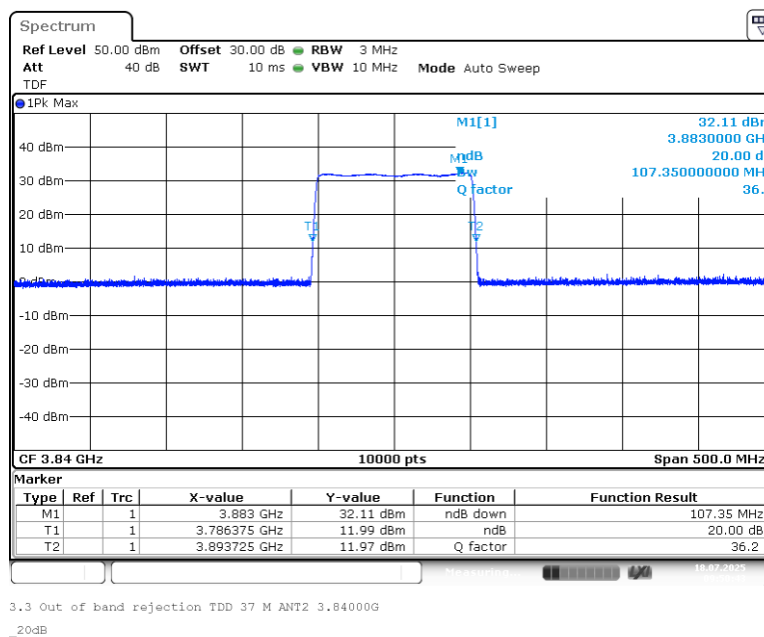
Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

5.6.4 MEASUREMENT PLOT

Frequency band = TDD 37, segment 1, ANT 2; Direction = RF downlink



Frequency band = TDD 37, segment 2, ANT 2; Direction = RF downlink

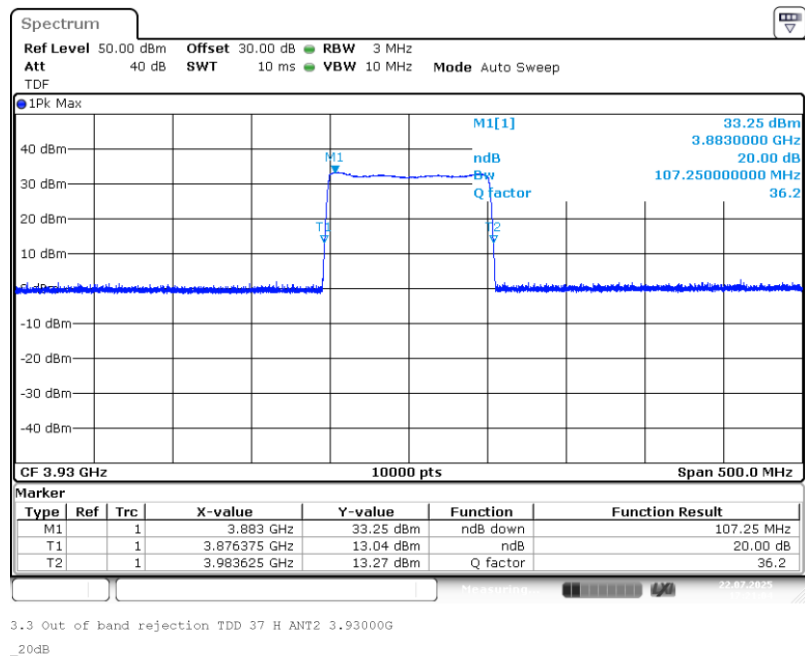


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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

Frequency band = TDD 37, segment 3, ANT 3; Direction = RF downlink



5.6.5 TEST EQUIPMENT USED

- Conducted

The test results relate only to the tested item. The sample has been provided by the client.
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5.7 FREQUENCY STABILITY

The frequency stability test case was not carried out, as any frequency errors are eliminated by the given system architecture. This is achieved by generating the LOs in the head-end station and the LOs in the remote unit with a common reference clock. This reference clock is transmitted from the head-end station to the remote unit and regenerated there. This means that the same reference frequency is used for all signal conversions (up- and down-conversion as well as analog-to-digital and digital-to-analog conversion) and any frequency error in the reference clock is compensated therefore. This is already clear from the measurement markings for the occupied bandwidth (26dB bandwidth). It can be seen that the DUT has no influence on the frequency (comparison between input and output signal). In addition, it is operationally necessary for the frequency deviation to be significantly smaller than the spectral distance between the transmission bandwidth edge and the channel bandwidth edge in order to meet the signal quality requirement (signal purity) and such ensure that the fundamental emissions remain within the authorized bands of operation.

6 TEST EQUIPMENT

6.1 CONDUCTED

Ref.No.	Type	Description	Manufacturer	Inventory no.	Last calibration	Calibration due
1.1	FSV40	Signal Analyzer 10 Hz - 40 GHz	Rohde & Schwarz	E-003138	2023-10	2025-10/ 2026-10
1.2	SMBV100A	Vector Signal Generator 9 kHz - 6 GHz	Rohde & Schwarz	E-003206	2023-01	2026-01
1.3	9070-10dB	Attenuator 10 dB	Inmet	E-003996	2024-01	2026-01
1.4	CA-2.92MF-20-40-20W-RD	Attenuator 20 dB	Tactron	E-003946	2025-02	2027-02
1.5	CA-SMAMF-10-26.5-10W-RDA2	Attenuator 10 dB	Tactron	E-004096	2025-02	2027-02
1.6	48-20-33	Attenuator 20 dB	BFI IBEXSA	E-003056	2024-10	2026-10
1.7	3.3 GHz - 3.8 GHz	Notch Filter	Tactron	E-004115	2025-07	2027-07
1.8	Arduino & HTY939	Thermo-Hygrometer	Bureau Veritas	E-003998	2025-03	2026-03
1.9	Auto Messung 1 Channel V8.1	Software	Bureau Veritas	Software V8.1	---	---

The calibration interval is the time interval between "Last Calibration" and "Calibration Due".

6.2 ANTENNA FACTORS. CABLE LOSS AND SAMPLE CALCULATION

The used factors for antennas, cables etc. are deposited in the used test systems (LabView program and BAT EMC programm). They are actualised by the returning calibration control.

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + \text{Corr. (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = Sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the test software.

distance correction = $-20 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

Linear interpolation will be used for frequencies in between the values in the test software.

**Test Report No.: 25-0163-EMC-TR-25-0150-V01**

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

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7 PHOTO REPORT

Please see separate photo report.

The test results relate only to the tested item. The sample has been provided by the client.
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**Test Report No.: 25-0163-EMC-TR-25-0150-V01**

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

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Annex A: Accreditation certificate (for information)

The accreditation relates to competences stated on the accreditation certificate. The current certificate is available on the homepage of the DAkkS and can be downloaded under accredited bodies with the processing number:

<https://www.dakks.de/en>

The test results relate only to the tested item. The sample has been provided by the client.
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Test Report No.: 25-0163-EMC-TR-25-0150-V01

Tests performed on CAP H2 34T/37T F-AC-F1 [37T]

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Annex B: Additional information provided by client

None.

***** End of test report *****

The test results relate only to the tested item. The sample has been provided by the client.
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