

EMC tests on Andrew CAP M2 C-Band F-DC

4.5 OUT-OF-BAND EMISSION LIMITS

Standard FCC Part §2.1051, §27.53

The test was performed according to:

ANSI C63.26, KDB KDB 935210 D05 v01r04: 3.6

Test date: 2022-07-19, 2022-07-21 and 2022-08-01

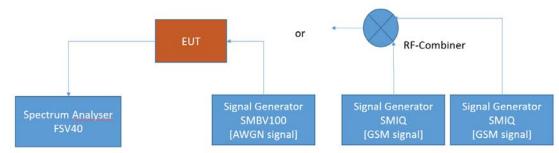
Environmental conditions: 23 ° C ± 5 K; 40 % r. F. ± 20 % r. F.

Test engineer: Thomas Hufnagel

4.5.1 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:



FCC Part 22/24/27/90 Industrial signal booster - Test Setup; Out-of-band emissions

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.

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4.5.2 TEST REQUIREMENTS/LIMITS

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.

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4.5.3 TEST PROTOCOL

| C-Band, 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 | 3797.50 | -4.5 | -28.1 | -13.0 | 15.1 | |
| Wideband | 3 dB > AGC | upper | 3797.50 | -1.2 | -27.4 | -13.0 | 14.4 | |
| Narrowband | 0.3 dB < AGC | upper | 3799.80 | -3.1 | -25.0 | -13.0 | 12.0 | |
| Narrowband | 3 dB > AGC | upper | 3799.80 | 0.2 | -24.2 | -13.0 | 11.2 | |
| Wideband | 0.3 dB < AGC | lower | 3702.50 | -4.7 | -26.8 | -13.0 | 13.8 | |
| Wideband | 3 dB > AGC | lower | 3702.50 | -1.4 | -27.9 | -13.0 | 14.9 | |
| Narrowband | 0.3 dB < AGC | lower | 3700.20 | -4.3 | -26.7 | -13.0 | 13.7 | |
| Narrowband | 3 dB > AGC | lower | 3700.20 | -1.0 | -26.6 | -13.0 | 13.6 | |

| C-Band, 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 | 3797.50 | 3795.00 | -4.7 | -29.3 | -13.0 | 16.3 |
| WB | 3 dB > AGC | upper | 3797.50 | 3795.00 | -1.4 | -29.2 | -13.0 | 16.2 |
| NB | 0.3 dB < AGC | upper | 3799.80 | 3799.60 | -3.9 | -27.5 | -13.0 | 14.5 |
| NB | 3 dB > AGC | upper | 3799.80 | 3799.60 | -0.6 | -27.5 | -13.0 | 14.5 |
| WB | 0.3 dB < AGC | lower | 3702.50 | 3705.00 | -4.5 | -29.6 | -13.0 | 16.6 |
| WB | 3 dB > AGC | lower | 3702.50 | 3705.00 | -1.2 | -29.6 | -13.0 | 16.6 |
| NB | 0.3 dB < AGC | lower | 3700.20 | 3700.40 | -4.3 | -29.2 | -13.0 | 16.2 |
| NB | 3 dB > AGC | lower | 3700.20 | 3700.40 | -1.0 | -30.0 | -13.0 | 17.0 |

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EMC tests on Andrew CAP M2 C-Band F-DC

| C-Band, 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 | 3887.50 | -5.1 | -25.8 | -13.0 | 12.8 | |
| Wideband | 3 dB > AGC | upper | 3887.50 | -1.8 | -24.0 | -13.0 | 11.0 | |
| Narrowband | 0.3 dB < AGC | upper | 3889.80 | -4.1 | -24.4 | -13.0 | 11.4 | |
| Narrowband | 3 dB > AGC | upper | 3889.80 | -0.8 | -25.6 | -13.0 | 12.6 | |
| Wideband | 0.3 dB < AGC | lower | 3792.50 | -5.1 | -28.2 | -13.0 | 15.2 | |
| Wideband | 3 dB > AGC | lower | 3792.50 | -1.8 | -27.1 | -13.0 | 14.1 | |
| Narrowband | 0.3 dB < AGC | lower | 3790.20 | -3.7 | -25.4 | -13.0 | 12.4 | |
| Narrowband | 3 dB > AGC | lower | 3790.20 | -0.4 | -24.7 | -13.0 | 11.7 | |

| C-Band, segment 2, 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 | 3887.50 | 3885.00 | -4.9 | -28.3 | -13.0 | 15.3 |
| WB | 3 dB > AGC | upper | 3887.50 | 3885.00 | -1.6 | -28.3 | -13.0 | 15.3 |
| NB | 0.3 dB < AGC | upper | 3889.80 | 3889.60 | -4.5 | -28.0 | -13.0 | 15.0 |
| NB | 3 dB > AGC | upper | 3889.80 | 3889.60 | -1.2 | -27.9 | -13.0 | 14.9 |
| WB | 0.3 dB < AGC | lower | 3792.50 | 3795.00 | -4.9 | -29.1 | -13.0 | 16.1 |
| WB | 3 dB > AGC | lower | 3792.50 | 3795.00 | -1.6 | -29.3 | -13.0 | 16.3 |
| NB | 0.3 dB < AGC | lower | 3790.20 | 3790.40 | -4.7 | -28.1 | -13.0 | 15.1 |
| NB | 3 dB > AGC | lower | 3790.20 | 3790.40 | -1.4 | -28.0 | -13.0 | 15.0 |

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EMC tests on Andrew CAP M2 C-Band F-DC

| C-Band, 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 | 3977.50 | -5.1 | -23.9 | -13.0 | 10.9 |
| Wideband | 3 dB > AGC | upper | 3977.50 | -1.8 | -21.8 | -13.0 | 8.8 |
| Narrowband | 0.3 dB < AGC | upper | 3979.80 | -4.5 | -25.3 | -13.0 | 12.3 |
| Narrowband | 3 dB > AGC | upper | 3979.80 | -1.2 | -24.4 | -13.0 | 11.4 |
| Wideband | 0.3 dB < AGC | lower | 3882.50 | -4.7 | -26.8 | -13.0 | 13.8 |
| Wideband | 3 dB > AGC | lower | 3882.50 | -1.4 | -26.1 | -13.0 | 13.1 |
| Narrowband | 0.3 dB < AGC | lower | 3880.20 | -4.1 | -25.1 | -13.0 | 12.1 |
| Narrowband | 3 dB > AGC | lower | 3880.20 | -0.8 | -24.9 | -13.0 | 11.9 |

| C-Band, segment 3, 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 | 3977.50 | 3977.50;3975.00 | -5.1 | -27.9 | -13.0 | 14.9 |
| WB | 3 dB > AGC | upper | 3977.50 | 3977.50;3975.00 | -1.8 | -24.1 | -13.0 | 11.1 |
| NB | 0.3 dB < AGC | upper | 3979.80 | 3979.80;3979.60 | -4.9 | -27.9 | -13.0 | 14.9 |
| NB | 3 dB > AGC | upper | 3979.80 | 3979.80;3979.60 | -1.6 | -27.7 | -13.0 | 14.7 |
| WB | 0.3 dB < AGC | lower | 3882.50 | 3882.50;3885.00 | -4.7 | -28.6 | -13.0 | 15.6 |
| WB | 3 dB > AGC | lower | 3882.50 | 3882.50;3885.00 | -1.4 | -28.0 | -13.0 | 15.0 |
| NB | 0.3 dB < AGC | lower | 3880.20 | 3880.20;3880.40 | -4.7 | -28.0 | -13.0 | 15.0 |
| NB | 3 dB > AGC | lower | 3880.20 | 3880.20;3880.40 | -1.4 | -28.2 | -13.0 | 15.2 |

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

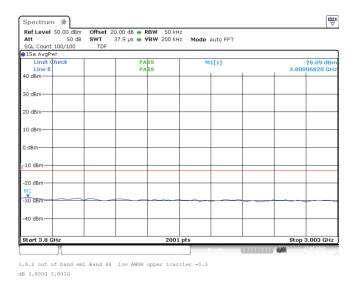
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The test results relate only to the tested item. The sample has been provided by the client.

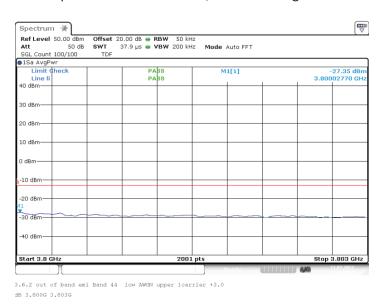
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4.5.4 MEASUREMENT PLOT

Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1

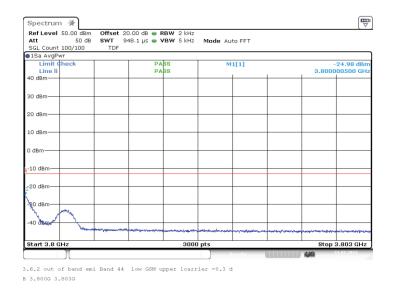


The test results relate only to the tested item. The sample has been provided by the client.

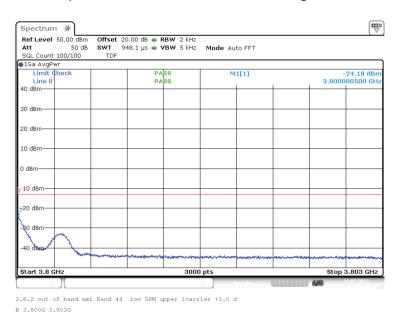
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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 1

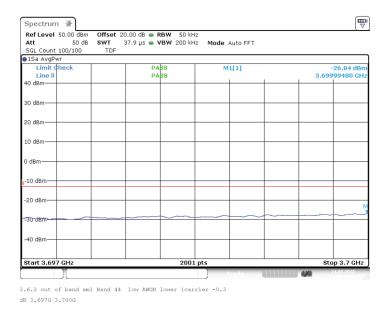


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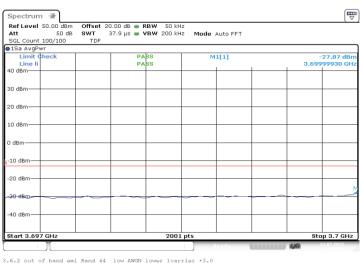
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1



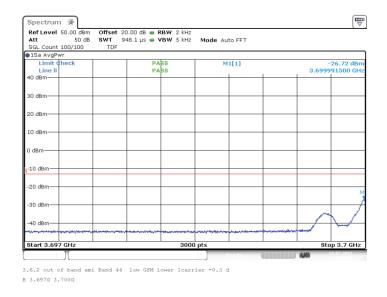
dB 3.697G 3.700G

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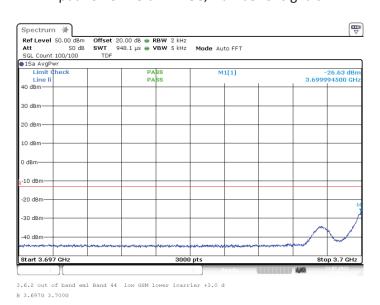
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 1

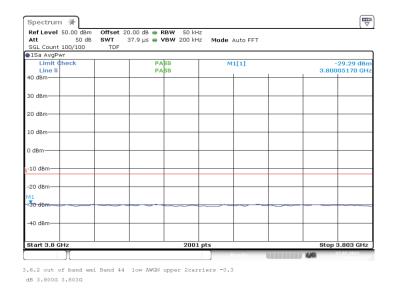


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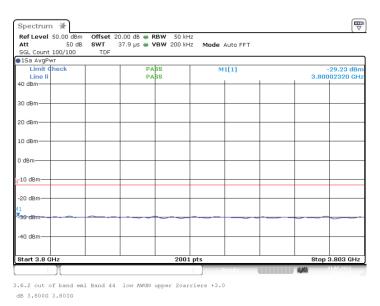
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2

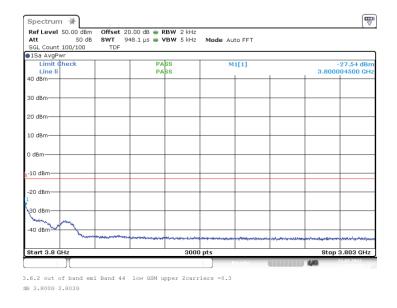


The test results relate only to the tested item. The sample has been provided by the client.

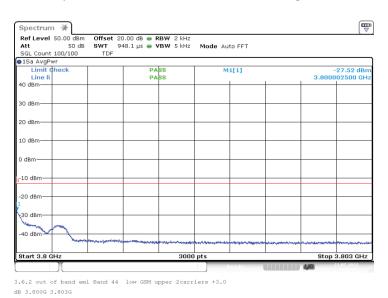
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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2

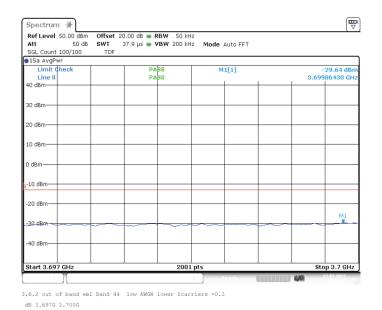


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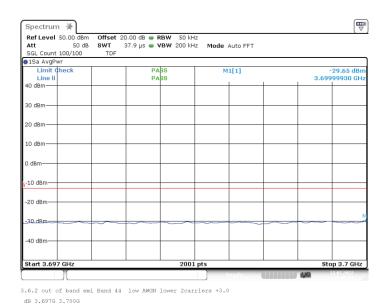
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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



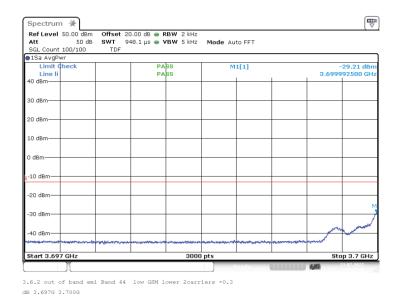
Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2



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Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 1; Frequency: 3.7000 GHz to 3.8000 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2

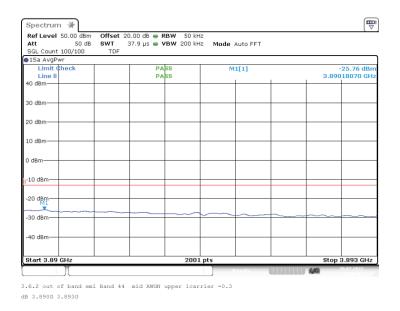


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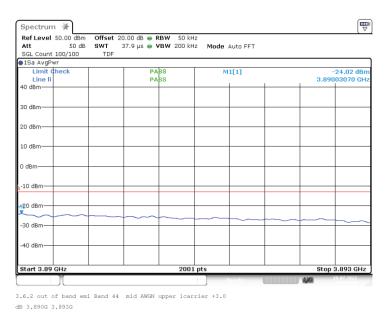
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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1

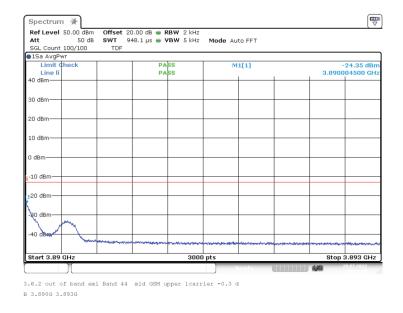


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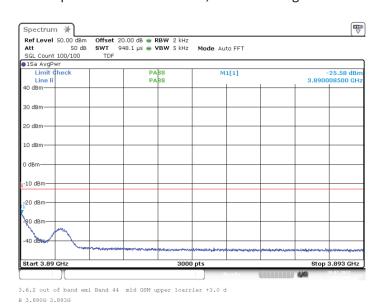
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 1

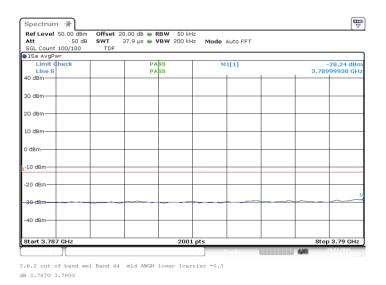


The test results relate only to the tested item. The sample has been provided by the client.

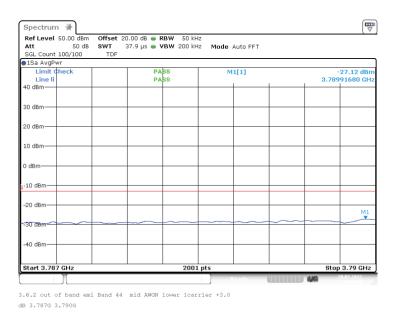
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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1

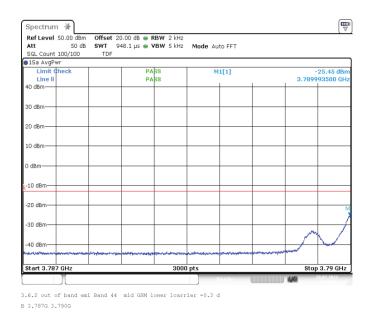


The test results relate only to the tested item. The sample has been provided by the client.

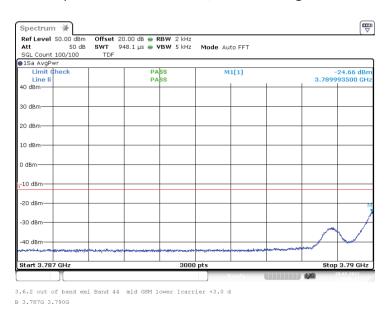
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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 1



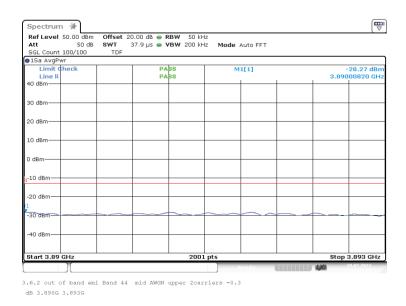
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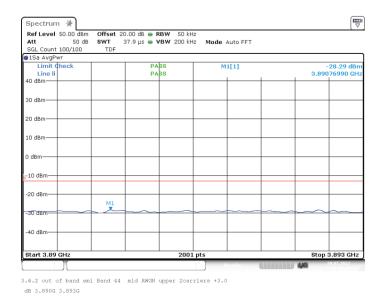
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2

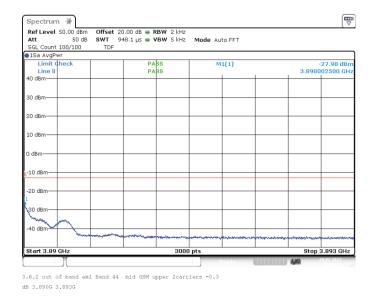


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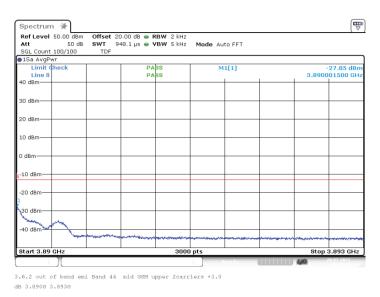
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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2

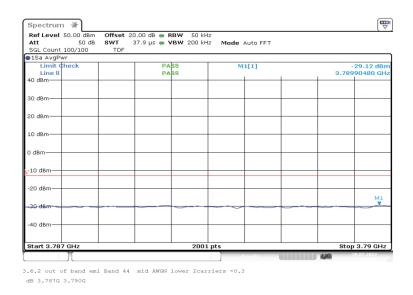


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The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2



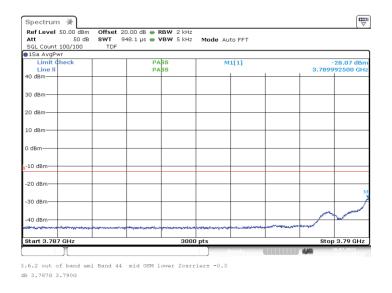
RPRT-0168-NU-V01 / TEMP-0059-NU-V01 Page 92 of 134

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

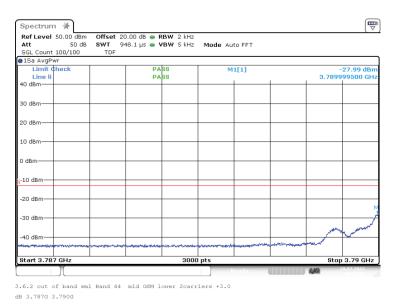
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 2; Frequency: 3.7900 GHz to 3.8900 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2



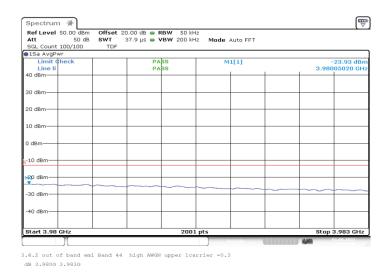
RPRT-0168-NU-V01 / TEMP-0059-NU-V01 Page 93 of 134

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

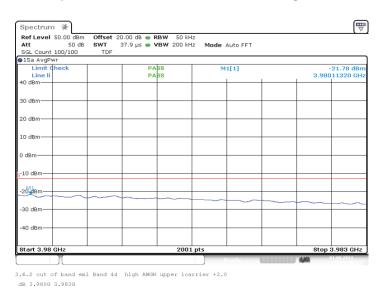
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1

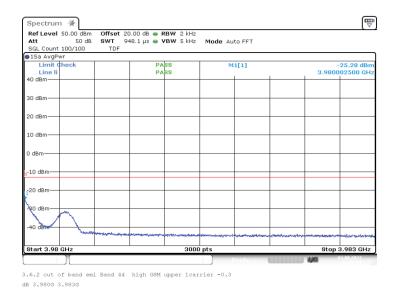


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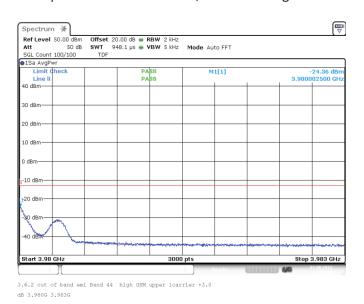
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 1



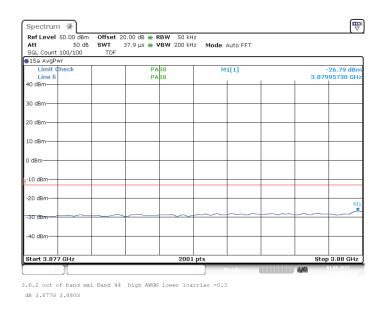
RPRT-0168-NU-V01 / TEMP-0059-NU-V01

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

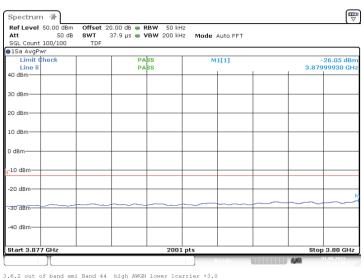
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 1



dB 3.877G 3.880G

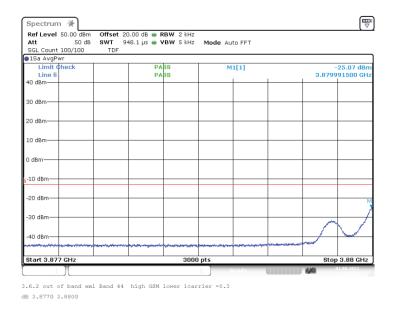
The test results relate only to the tested item. The sample has been provided by the client.

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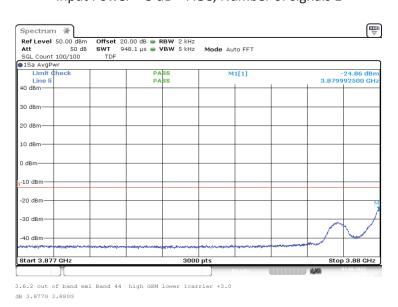
2022-0536-EMC-TR-22-0168-V02

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Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 1



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Narrowband; 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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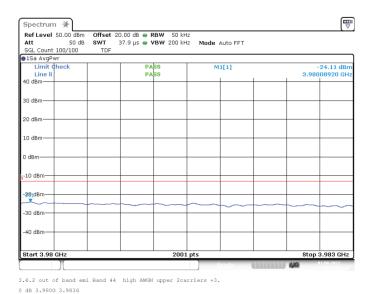
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2

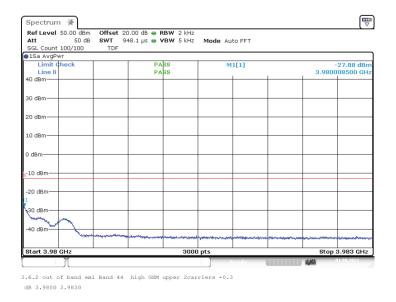


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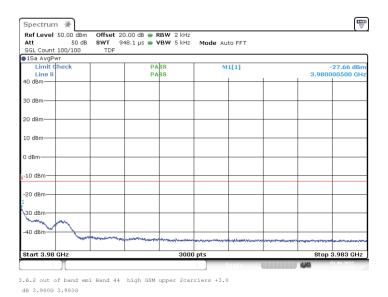
The test results relate only to the tested item. The sample has been provided by the client.

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Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: upper; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2



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

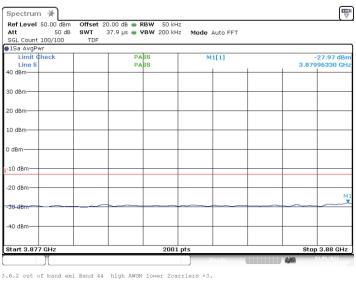
Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Wideband; Input Power = 0.3 dB < AGC; Number of signals 2



3.6.2 out of band emi Band 44 high AWGN lower 2carriers -0. 3 dB 3.877G 3.880G

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Wideband; Input Power = 3 dB > AGC; Number of signals 2



0 dB 3.877G 3.880G

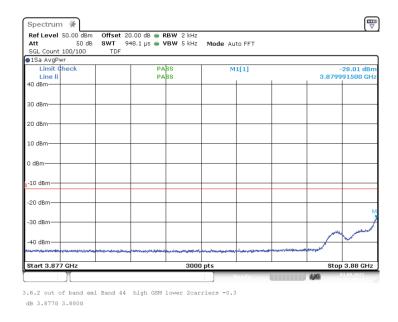
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.

2022-0536-EMC-TR-22-0168-V02

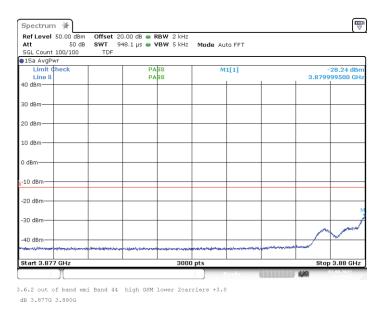
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EMC tests on Andrew CAP M2 C-Band F-DC

Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 0.3 dB < AGC; Number of signals 2



Band C, Segment 3; Frequency: 3.8800 GHz to 3.9800 GHz; Band Edge: lower; Mod: Narrowband; Input Power = 3 dB > AGC; Number of signals 2



4.5.5 TEST EQUIPMENT USED

- Conducted

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

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EMC tests on Andrew CAP M2 C-Band F-DC

4.6 OUT-OF-BAND REJECTION

Standard FCC Part 27

The test was performed according to:

ANSI C63.26

Test date: 2022-07-20, 2022-07-21 and 2022-08-01

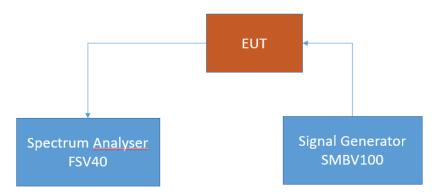
Environmental conditions: 23 ° C ± 5 K; 40 % r. F. ± 20 % r. F.

Test engineer: Thomas Hufnagel

4.6.1 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:



FCC Part 22/24/27/90 Industrial signal booster - Test Setup; Out-of-band rejection

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.

4.6.2 TEST REQUIREMENTS/LIMITS

For this test case exists no applicable limit

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

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EMC tests on Andrew CAP M2 C-Band F-DC

4.6.3 TEST PROTOCOL

| C-Band, segment | | | | |
|-------------------------------------|--------------------------|--|--|-----------------------------|
| 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] |
| 3793.60 | 24.18 | 3696.475 | 3803.825 | 107.35 |

| C-Band, segment 2 | | | | |
|-------------------------------------|--------------------------|--|--|-----------------------------|
| 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] |
| 3793.40 | 24.43 | 3786.225 | 3893.775 | 107.55 |

| C-Band, segment 3 | | | | |
|-------------------------------------|--------------------------|--|--|-----------------------------|
| 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] |
| 3997.40 | 24.95 | 3876.275 | 3983.775 | 107.50 |

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

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

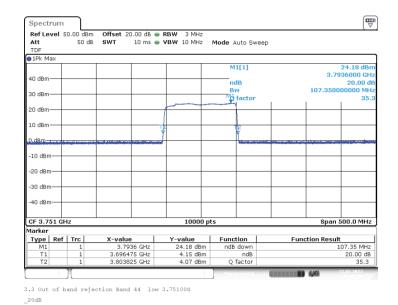
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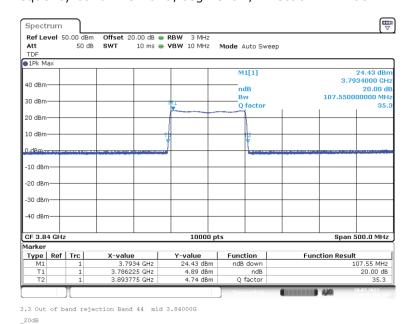
EMC tests on Andrew CAP M2 C-Band F-DC

4.6.4 MEASUREMENT PLOTS

Frequency band = C-Band, segment 1, Direction = RF downlink



Frequency band = C-Band, segment 2, Direction = RF downlink



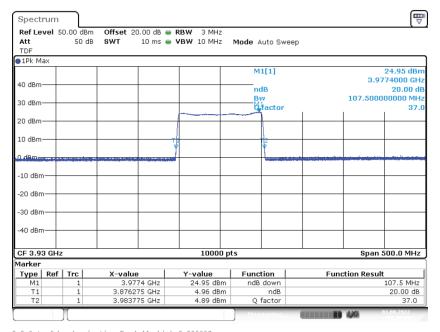
The test results relate only to the tested item. The sample has been provided by the client.

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EMC tests on Andrew CAP M2 C-Band F-DC

Frequency band = C-Band, segment 3, Direction = RF downlink



3.3 Out of band rejection Band 44 high 3.93000G 20dB

4.6.5 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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EMC tests on Andrew CAP M2 C-Band F-DC

4.7 FIELD STRENGTH OF SPURIOUS RADIATION

Standard FCC Part 27, §27.53

The test was performed according to:

ANSI C63.26

Test date: 2022-08-03 to 2022-08-05

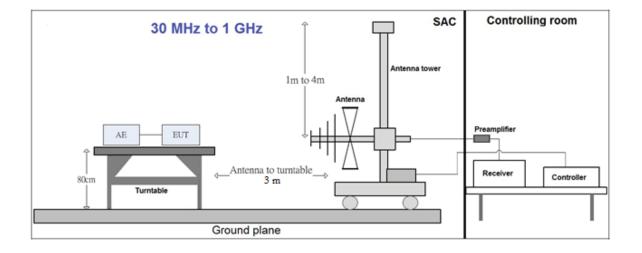
Environmental conditions: 23 ° C ± 5 K; 40 % r. F. ± 20 % r. F.

Test engineer: Thomas Hufnagel

4.7.1 TEST DESCRIPTION

This test case is intended to demonstrate compliance to the applicable radiated spurious emission measurements per § 2.1053

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



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

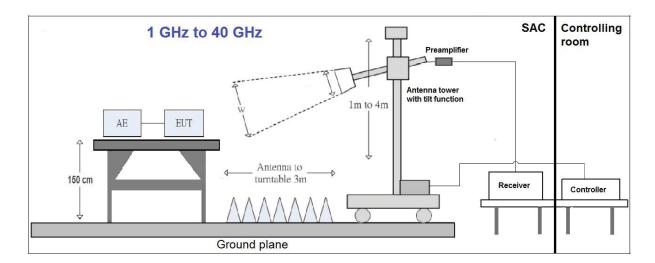
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EMC Test Report No.: 22-0168

EMC tests on Andrew CAP M2 C-Band F-DC



The test set-up was made in accordance to the general provisions of ANSI C63.4 in a typical installation configuration. The Equipment Under Test (EUT) was set up on a non-conductive table $1.5 \times 1.5 \, \text{m}^2$ in the semi-anechoic chamber, $0.8 \, \text{meter}$ above the ground or floor-standing arrangement shall be placed on the horizontal ground reference plane. The influence of the EUT support table that is used between $30\text{--}1000 \, \text{MHz}$ was evaluated. For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. The highest emissions between 30 MHz to 1000 MHz were analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions.

The measurement procedure is implemented into the EMI test software BAT EMC from NEXIO. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is also performed at 3 axes. A pre-check is performed while the EUT is powered by a DC power source.

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EMC tests on Andrew CAP M2 C-Band F-DC

1. Measurement above 30 MHz and up to 1 GHz

Step 1: Preliminary scan

This is a preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:
- Antenna distance: 3 m

- Detector: PEAK

- Frequency range: 30 - 1000 MHz

Frequency steps: 30 kHzIF-Bandwidth: 120 kHz

- Turntable angle range: -180° to 180°

- Turntable step size: 15°

Height variation range: 1 – 4 m
Height variation step size: 2 m
Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: Adjustment measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by \pm 45° around this value. During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by \pm 100 cm around the antenna height determined. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: PEAK

- Measured frequencies: in step 1 determined frequencies

- IF - Bandwidth: 120 kHz

- Turntable angle range: ± 30 ° around the determined value

- Antenna Polarisation: max. value determined in step 1

Step 3: Final measurement with PEAK detector

With the settings determined in step 3, the final measurement will be performed:

EMI receiver settings for step 4:

- Detector: PEAK (< 1 GHz)

- Measured frequencies: in step 1 determined frequencies

- IF - Bandwidth: 120 kHz

After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

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

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EMC tests on Andrew CAP M2 C-Band F-DC

3. Measurement above 1 GHz

The following modifications apply to the measurement procedure for the frequency range above 1 GHz:

Step 1:

The Equipment Under Test (EUT) was set up on a non-conductive support at 1.5 m height in the semi-anechoic chamber. Absorbers are placed around and between the turn table and the antenna tower.

All steps were performed with one height (1.5 m) of the receiving antenna only.

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 30 $^{\circ}$.

The turn table step size (azimuth angle) for the preliminary measurement is 15 °.

Step 2:

The maximum RFI field strength was determined during the measurement by rotating the turntable (± 180 degrees) and varying the height of the receive antenna (h = 1 ... 4 m) with a additional tilt function of the antenna. The turn table azimuth will slowly vary by \pm 15°. EMI receiver settings (for all steps):

- Detector: PEAK

- IF Bandwidth = 1 MHz

Step 3:

Spectrum analyser settings for step 3:

- Detector: PEAK

- Measured frequencies: in step 1 determined frequencies

- IF - Bandwidth: 1 MHz

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EMC tests on Andrew CAP M2 C-Band F-DC

4.7.2 TEST REQUIREMENTS/LIMITS

FCC Part 2.1053; Measurement required: Field strength of spurious radiation:

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate.

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.

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EMC tests on Andrew CAP M2 C-Band F-DC

4.7.3 TEST PROTOCOL

General considerations concerning the limits:

The measuring bandwidth of 1 MHz was chosen according the test requirements exept at the bands from 30 MHz to 1 GHz: At these bands reducing of measurement bandwidth was done. 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 were measuring bandwidths were reduced also the limit lines were reduced according the given formula:

$$p \ RBW reduced \ [dBm] = 10 * \log \left(RBW reduced \ [kHz] - 1000 \ kHz\right) + pRBW \ 1000 \ kHz [dBm]$$

Hereby "p" are the limit lines' values.

Considerations to MIMO operation:

At this test the four output ports ANT 1 to ANT 4 are together in function according KDB 935210 D02 v04r02 chapter II (o) (2).

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EMC tests on Andrew CAP M2 C-Band F-DC

At this tables the highest peak value of spurious radiation per frequency test band is shown.

| C-Band, segn | nent 1, downl | ink; | | | | |
|----------------------------|----------------------------|--------------|----------|--------------|----------------|----------------------------|
| Spurious Freq. [MHz] | Spurious Level [dBm] | Pin [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| 101.7/vert. | -54.1 | -4.8 | PEAK | 120 | -22.2 | 31.9 |
| 17748/hor. | -18.0 | -4.8 | PEAK | 1000 | -13.0 | 5.0 |
| 26892/vert. | -43.3 | -4.8 | PEAK | 1000 | -13.0 | 30.0 |
| 39928/hor. | -15.5 | -4.8 | PEAK | 1000 | -13.0 | 2.5 |

| C-Band, segment 2, downlink; | | | | | | |
|------------------------------|----------------------------|--------------|----------|--------------|----------------|----------------------------|
| Spurious Freq. [MHz] | Spurious Level [dBm] | Pin [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| 101.7/vert. | -55.3 | -4.8 | PEAK | 120 | -22.2 | 33.1 |
| 17840/hor. | -17.8 | -4.8 | PEAK | 1000 | -13.0 | 4.8 |
| 26774/hor. | -42.6 | -4.8 | PEAK | 1000 | -13.0 | 29.6 |
| 39851/hor. | -14.6 | -4.8 | PEAK | 1000 | -13.0 | 1.6 |

| C-Band, segment 3, downlink; | | | | | | |
|------------------------------|----------------------------|--------------|----------|--------------|----------------|----------------------------|
| Spurious Freq. [MHz] | Spurious Level [dBm] | Pin [dBm] | Detector | RBW [kHz] | Limit [dBm] | Margin to Limit [dB] |
| 101.8/vert. | -54.1 | -4.8 | PEAK | 120 | -22.2 | 31.9 |
| 17367/vert. | -17.4 | -4.8 | PEAK | 1000 | -13.0 | 4.4 |
| 26747/vert. | -40.0 | -4.8 | PEAK | 1000 | -13.0 | 27.0 |
| 39723/vert. | -15.0 | -4.8 | PEAK | 1000 | -13.0 | 2.0 |

Abbreviations:

Hor.: horizontal position Vert.: vertical position

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

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

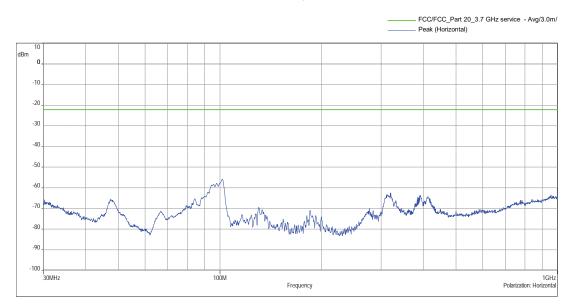
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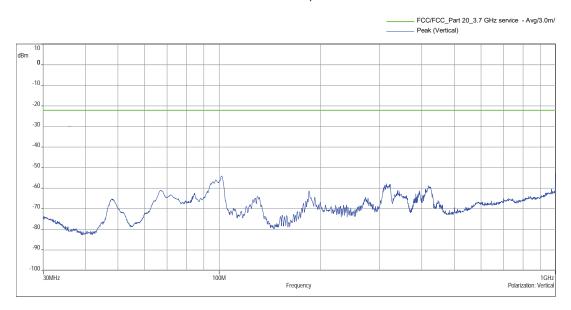
4.7.4 MEASUREMENT PLOT (SHOWING THE HIGHEST VALUE, "WORST CASE")

4.7.4.1 Frequency Band = C-Band, Segment 1, ANT 1 to ANT 4, Direction = RF downlink

30 MHz - 1 GHz, horizontal



30 MHz - 1 GHz, vertical



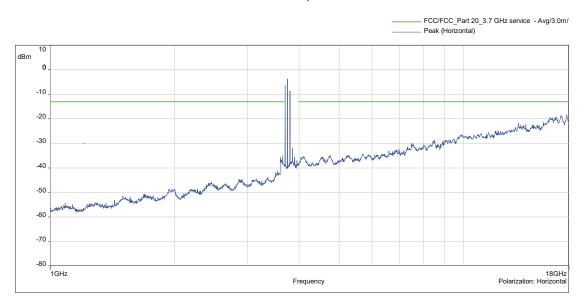
The test results relate only to the tested item. The sample has been provided by the client.

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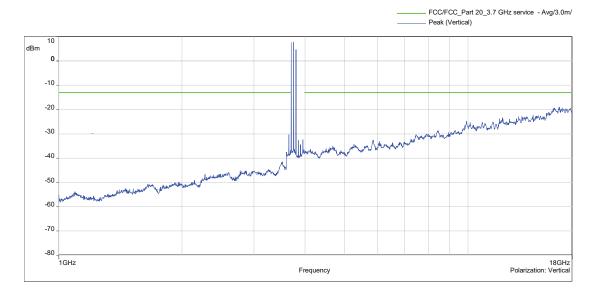
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1 GHz - 18 GHz, horizontal



1 GHz - 18 GHz, vertical



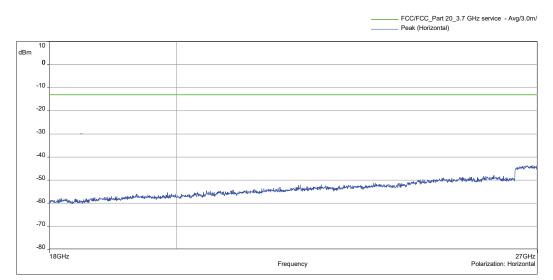
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The test results relate only to the tested item. The sample has been provided by the client.

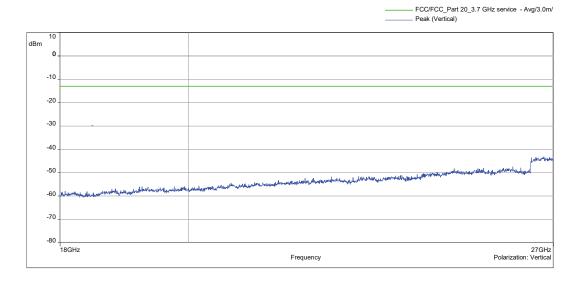
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18 GHz - 27 GHz, horizontal



18 GHz - 27 GHz, vertical



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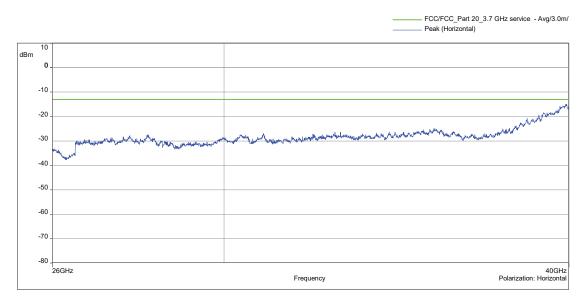
The test results relate only to the tested item. The sample has been provided by the client.

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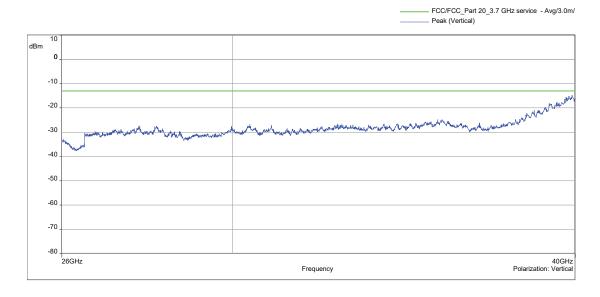


EMC tests on Andrew CAP M2 C-Band F-DC

26 GHz - 40 GHz, horizontal



26 GHz - 40 GHz, vertical



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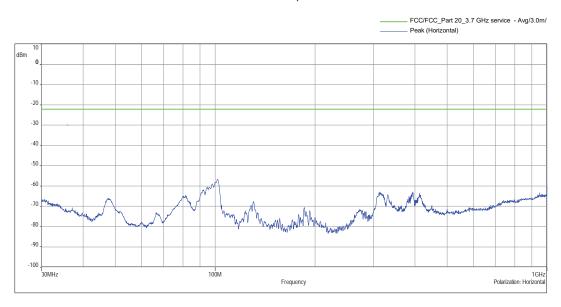
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



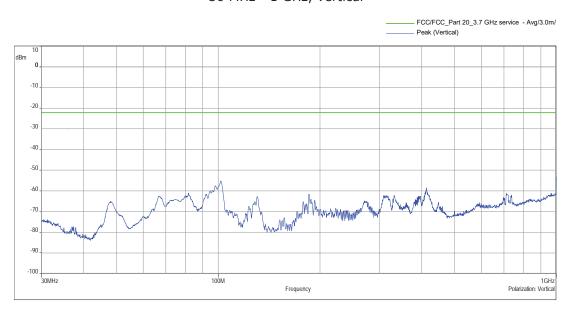
EMC tests on Andrew CAP M2 C-Band F-DC

4.7.4.2 Frequency Band = C-Band, Segment 2, ANT 1 to ANT 4, Direction = RF downlink

30 MHz - 1 GHz, horizontal



30 MHz - 1 GHz, vertical

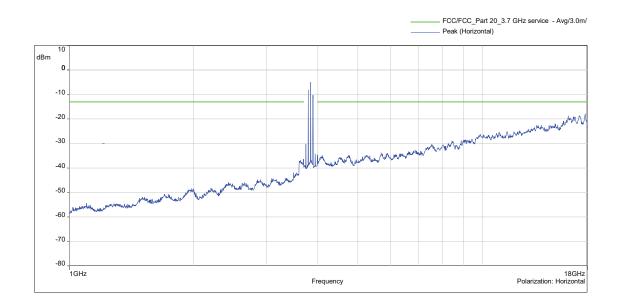


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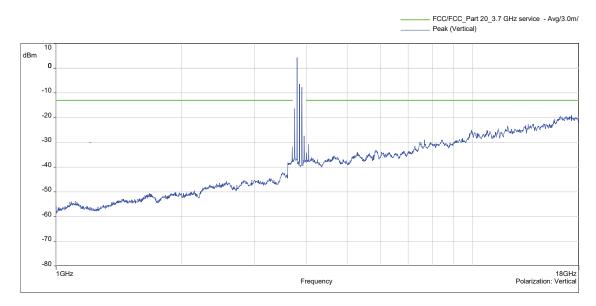
The test results relate only to the tested item. The sample has been provided by the client. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced.



1 GHz - 18 GHz, horizontal



1 GHz - 18 GHz, vertical



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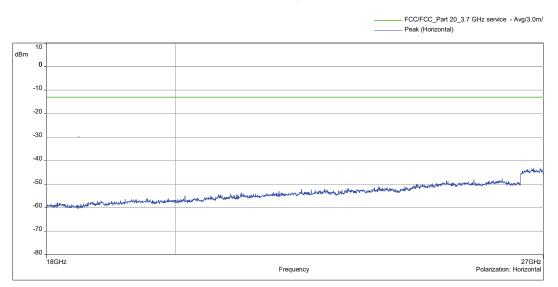
The test results relate only to the tested item. The sample has been provided by the client.

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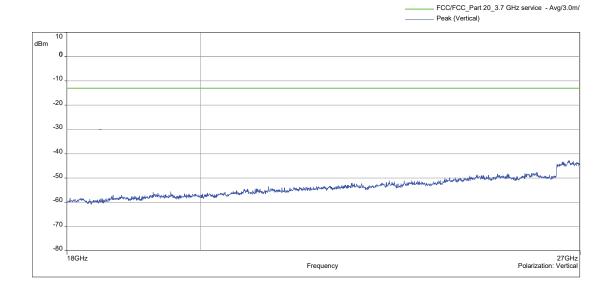


EMC tests on Andrew CAP M2 C-Band F-DC

18 GHz - 27 GHz, horizontal



18 GHz - 27 GHz, vertical



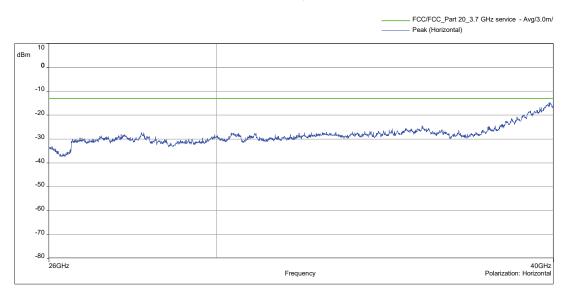
The test results relate only to the tested item. The sample has been provided by the client.

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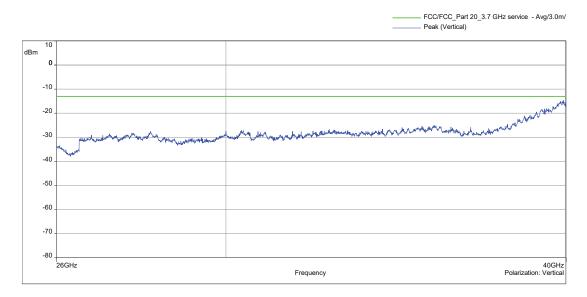
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26 GHz - 40 GHz, horizontal



26 GHz - 40 GHz, vertical



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

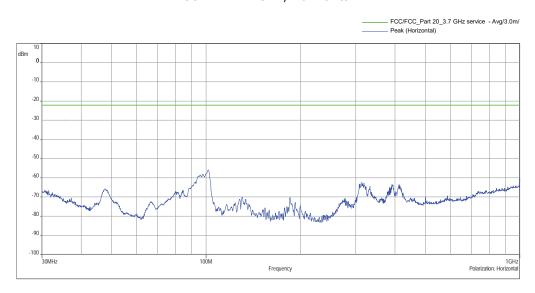
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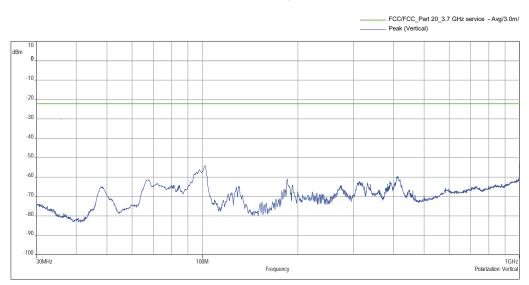
EMC tests on Andrew CAP M2 C-Band F-DC

4.7.4.3 Frequency Band = C-Band, Segment 3, ANT 1 to ANT 4, Direction = RF downlink

30 MHz - 1 GHz, horizontal



30 MHz - 1 GHz, vertical



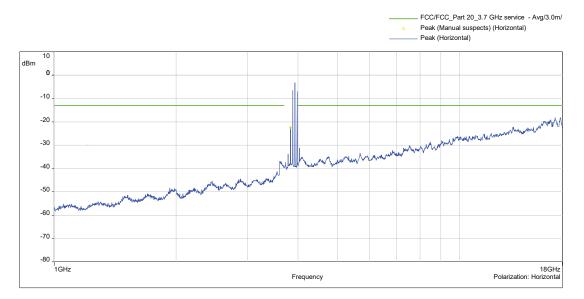
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The test results relate only to the tested item. The sample has been provided by the client.

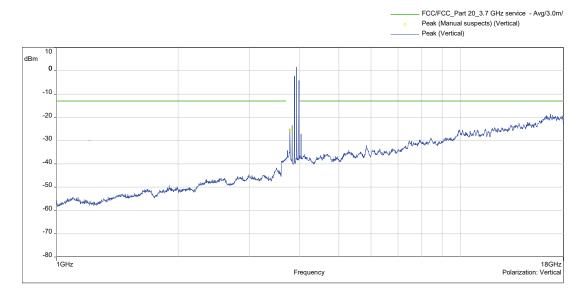
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1 GHz - 18 GHz, horizontal



1 GHz - 18 GHz, vertical



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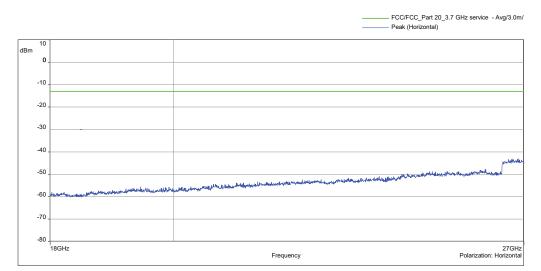
The test results relate only to the tested item. The sample has been provided by the client.

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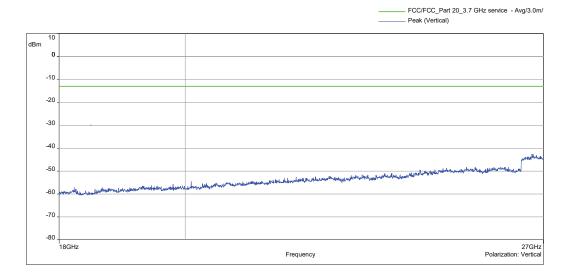


EMC tests on Andrew CAP M2 C-Band F-DC

18 GHz - 27 GHz, horizontal



18 GHz - 27 GHz, vertical



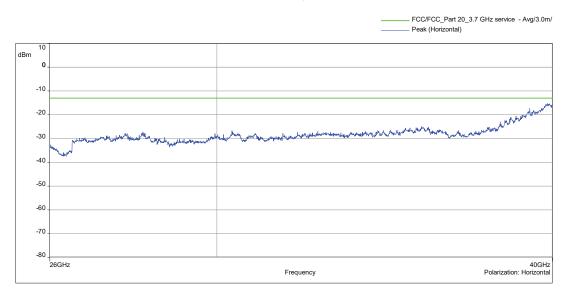
RPRT-0168-NU-V01 / TEMP-0059-NU-V01

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

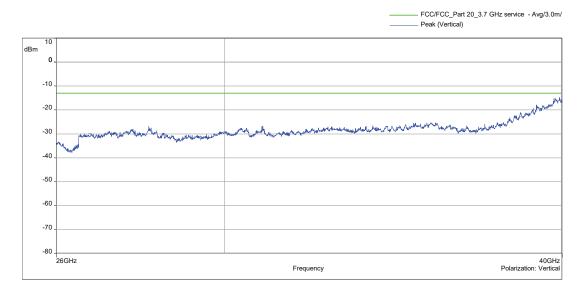
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26 GHz - 40 GHz, horizontal



26 GHz - 40 GHz, vertical



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

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EMC tests on Andrew CAP M2 C-Band F-DC

4.7.5 FIELD STRENGTH CALCULATIONS

FS = SA + AF + CL + PA

Where as:

FS = Field strength

SA = EMC test receiver reading

AF = Antenna factor

CL = Cable loss

PA = Preamplifier

4.7.6 TEST EQUIPMENT USED

- Radiated Emissions

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EMC tests on Andrew CAP M2 C-Band F-DC

5 TEST EQUIPMENT

5.1 CONDUCTED EMISSIONS

| Ref.No. | Туре | Description | Manufacturer | Inventory no. | Last Calibration | Calibration Due |
|---------|----------|--|-----------------|---------------|---------------------|--------------------|
| 1.1 | FSV40 | Signal Analyzer 10 Hz - 40 GHz | Rohde & Schwarz | E-003138 | 2021-10 | 2022-10 |
| 1.2 | SMBV100A | Vector Signal Generator 9 kHz - 6 GHz | Rohde & Schwarz | E-003206 | 2020-08 | 2023-08 |
| 1.3 | BAT-EMC | Software | Nexio | V 2022.0.9.0 | | |

5.2 RADIATED EMISSIONS

| Ref.No. | Туре | Description | Manufacturer | Inventory no. | Last Calibration | Calibration Due |
|---------|----------------|-------------------------------------|-----------------------|-----------------------------------|---------------------|--------------------|
| 1.4 | ESU40 | EMI test receiver 10 Hz - 40 GHz | Rohde & Schwarz | E-003138 | 2021-10 | 2022-10 |
| 1.5 | CBL 6111C | Antenna 30 MHz – 1 GHz | Chase | E-003226 | 2021-10 | 2024-10 |
| 1.6 | HL 025 | Antenna 1 GHz - 18 GHz | Rohde & Schwarz | E-003259 | 2022-01 | 2023-01 |
| 1.7 | MWH-1826/B | Antenna 18 GHz – 26.5 GHz | ARA Inc. | E-003233 | 2020-10 | 2022-10 |
| 1.8 | MWH-2640/B | Antenna 26 GHz - 40 GHz | ARA Inc. | E-003234 | 2020-10 | 2022-10 |
| 1.9 | AM1431 | Pre amplifier 10 kHz – 1 GHz | Miteq | E-003365 | 2021-10 | 2022-10 |
| 1.10 | AFS4-00102000 | Preamplifier 100 MHz - 20 GHz | Miteq | E-003633 | 2021-10 | 2022-10 |
| 1.11 | JS43-1800-4000 | Preamplifier 18 GHz - 40 GHz | Miteq | E-003249 | 2021-07 | 2023-07 |
| 1.12 | CO3000 | Controller SAC | Innco systems GmbH | E-003052 with Software 1.02.62 | | |
| 1.13 | BAT-EMC | Software | Nexio | V 2022.0.9.0 | | |

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

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

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EMC tests on Andrew CAP M2 C-Band F-DC

6 ANTENNA FACTORS, CABLE LOSS AND SAMPLE CALCULATIONS

This chapter contains the antenna factors with their corresponding path loss of the used measurement path for all antennas as well as the insertion loss of the LISN.

6.1 ANTENNA CHASE CBL 6111C (30 MHZ - 1 GHZ)

| $d_{Limit} = 3 m)$ | | | | | |
|--------------------|----------|-------|--|--|--|
| | | | | | |
| Frequency | AF | Corr. | | | |
| MHz | dB (1/m) | dB | | | |
| 30 | 18.6 | 0.6 | | | |
| 50 | 6.0 | 0.9 | | | |
| 100 | 9.7 | 1.2 | | | |
| 150 | 7.9 | 1.6 | | | |
| 200 | 7.6 | 1.9 | | | |
| 250 | 9.5 | 2.1 | | | |
| 300 | 11.0 | 2.3 | | | |
| 350 | 12.4 | 2.6 | | | |
| 400 | 13.6 | 2.9 | | | |
| 450 | 14.7 | 3.1 | | | |
| 500 | 15.6 | 3.2 | | | |
| 550 | 16.3 | 3.5 | | | |
| 600 | 17.2 | 3.5 | | | |
| 650 | 18.1 | 3.6 | | | |
| 700 | 18.5 | 3.6 | | | |
| 750 | 19.1 | 4.1 | | | |
| 800 | 19.6 | 4.1 | | | |
| 850 | 20.1 | 4.4 | | | |
| 900 | 20.8 | 4.7 | | | |
| 950 | 21.1 | 4.8 | | | |
| 1000 | 21.6 | 4.9 | | | |

| cable loss 1 (inside chamber) | cable loss 2 (outside chamber) | cable loss 3 (switch unit) | cable loss 4 (to receiver) | distance corr. (-20 dB/ decade) | d _{Limit} (meas. distance (limit) | d _{used} (meas. distance (used) |
|--|---|-------------------------------------|-------------------------------------|--|---|---|
| dB | dB | dB | dB | dB | m | m |
| 0.29 | 0.04 | 0.23 | 0.02 | 0.0 | 3 | 3 |
| 0.39 | 0.09 | 0.32 | 0.08 | 0.0 | 3 | 3 |
| 0.56 | 0.14 | 0.47 | 0.08 | 0.0 | 3 | 3 |
| 0.73 | 0.20 | 0.59 | 0.12 | 0.0 | 3 | 3 |
| 0.84 | 0.21 | 0.70 | 0.11 | 0.0 | 3 | 3 |
| 0.98 | 0.24 | 0.80 | 0.13 | 0.0 | 3 | 3 |
| 1.04 | 0.26 | 0.89 | 0.15 | 0.0 | 3 | 3 |
| 1.18 | 0.31 | 0.96 | 0.13 | 0.0 | 3 | 3 |
| 1.28 | 0.35 | 1.03 | 0.19 | 0.0 | 3 | 3 |
| 1.39 | 0.38 | 1.11 | 0.22 | 0.0 | 3 | 3 |
| 1.44 | 0.39 | 1.20 | 0.19 | 0.0 | 3 | 3 |
| 1.55 | 0.46 | 1.24 | 0.23 | 0.0 | 3 | 3 |
| 1.59 | 0.43 | 1.29 | 0.23 | 0.0 | 3 | 3 |
| 1.67 | 0.34 | 1.35 | 0.22 | 0.0 | 3 | 3 |
| 1.67 | 0.42 | 1.41 | 0.15 | 0.0 | 3 | 3 |
| 1.87 | 0.54 | 1.46 | 0.25 | 0.0 | 3 | 3 |
| 1.90 | 0.46 | 1.51 | 0.25 | 0.0 | 3 | 3 |
| 1.99 | 0.60 | 1.56 | 0.27 | 0.0 | 3 | 3 |
| 2.14 | 0.60 | 1.63 | 0.29 | 0.0 | 3 | 3 |
| 2.22 | 0.60 | 1.66 | 0.33 | 0.0 | 3 | 3 |
| 2.23 | 0.61 | 1.71 | 0.30 | 0.0 | 3 | 3 |

Sample calculation

E (dB μ V/m) = U (dB μ V) + AF (dB 1/m) + Corr. (dB)

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable) distance correction = $-20 * LOG (d_{Limit}/d_{used})$

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

Tables show an extract of values.

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EMC tests on Andrew CAP M2 C-Band F-DC

6.2 ANTENNA ROHDE & SCHWARZ HL 025 (1 GHZ - 18 GHZ)

| Eroguenev | AF | Corr. |
|-----------|----------|-------|
| Frequency | | |
| MHz | dB (1/m) | dB |
| 1000 | 24.4 | -19.4 |
| 2000 | 28.5 | -17.4 |
| 3000 | 31.0 | -16.1 |
| 4000 | 33.1 | -14.7 |
| 5000 | 34.4 | -13.7 |
| 6000 | 34.7 | -12.7 |
| 7000 | 35.6 | -11.0 |

| cable loss 1 (relay + cable inside chamber) | cable loss 2 (outside chamber) | cable loss 3 (switch unit, atten- uator & pre-amp) | cable loss 4 (to receiver) | |
|---|---|--|----------------------------------|--|
| dB | dB | dB | dB | |
| 0.99 | 0.31 | -21.51 | 0.79 | |
| 1.44 | 0.44 | -20.63 | 1.38 | |
| 1.87 | 0.53 | -19.85 | 1.33 | |
| 2.41 | 0.67 | -19.13 | 1.31 | |
| 2.78 | 0.86 | -18.71 | 1.40 | |
| 2.74 | 0.90 | -17.83 | 1.47 | |
| 2.82 | 0.86 | -16.19 | 1.46 | |

| Frequency | AF | Corr. |
|-----------|----------|-------|
| MHz | dB (1/m) | dB |
| 3000 | 31.0 | -23.4 |
| 4000 | 33.1 | -23.3 |
| 5000 | 34.4 | -21.7 |
| 6000 | 34.7 | -21.2 |
| 7000 | 35.6 | -19.8 |

| cable loss 1 (relay inside chamber) | cable loss 2 (inside chamber) | cable loss 3 (outside chamber) | cable loss 4 (switch unit, atten- uator & pre-amp) | cable loss 5 (to receiver) | used for FCC 15.247 |
|---|--|---|--|----------------------------------|------------------------------|
| dB | dB | dB | dB | dB | |
| 0.47 | 1.87 | 0.53 | -27.58 | 1.33 | |
| 0.56 | 2.41 | 0.67 | -28.23 | 1.31 | |
| 0.61 | 2.78 | 0.86 | -27.35 | 1.40 | |
| 0.58 | 2.74 | 0.90 | -26.89 | 1.47 | |
| 0.66 | 2.82 | 0.86 | -25.58 | 1.46 | |

| Frequency | AF | Corr. |
|-----------|----------|-------|
| MHz | dB (1/m) | dB |
| 7000 | 35.6 | -57.3 |
| 8000 | 36.3 | -56.3 |
| 9000 | 37.1 | -55.3 |
| 10000 | 37.5 | -56.2 |
| 11000 | 37.5 | -55.3 |
| 12000 | 37.6 | -53.7 |
| 13000 | 38.2 | -53.5 |
| 14000 | 39.9 | -56.3 |
| 15000 | 40.9 | -54.1 |
| 16000 | 41.3 | -54.1 |
| 17000 | 42.8 | -54.4 |
| 18000 | 44.2 | -54.7 |

| cable | | | | | |
|----------|--------|--------|----------|----------|-----------|
| loss 1 | cable | cable | cable | cable | cable |
| (relay | loss 2 | loss 3 | loss 4 | loss 5 | loss 6 |
| inside | (High | (pre- | (inside | (outside | (to |
| chamber) | Pass) | amp) | chamber) | chamber) | receiver) |
| dB | dB | dB | dB | dB | dB |
| 0.56 | 1.28 | -62.72 | 2.66 | 0.94 | 1.46 |
| 0.69 | 0.71 | -61.49 | 2.84 | 1.00 | 1.53 |
| 0.68 | 0.65 | -60.80 | 3.06 | 1.09 | 1.60 |
| 0.70 | 0.54 | -61.91 | 3.28 | 1.20 | 1.67 |
| 0.80 | 0.61 | -61.40 | 3.43 | 1.27 | 1.70 |
| 0.84 | 0.42 | -59.70 | 3.53 | 1.26 | 1.73 |
| 0.83 | 0.44 | -59.81 | 3.75 | 1.32 | 1.83 |
| 0.91 | 0.53 | -63.03 | 3.91 | 1.40 | 1.77 |
| 0.98 | 0.54 | -61.05 | 4.02 | 1.44 | 1.83 |
| 1.23 | 0.49 | -61.51 | 4.17 | 1.51 | 1.85 |
| 1.36 | 0.76 | -62.36 | 4.34 | 1.53 | 2.00 |
| 1.70 | 0.53 | -62.88 | 4.41 | 1.55 | 1.91 |

Sample calculation

E (dB μ V/m) = U (dB μ V) + AF (dB 1/m) + 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 table.

Tables show an extract of values.

2022-0536-EMC-TR-22-0168-V02

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EMC tests on Andrew CAP M2 C-Band F-DC

6.3 ANTENNA ARA INC. MWH-1826-B (18 GHZ – 26.5 GHZ) PARTIALLY IN CONJUNCTION WITH PRE-AMPLIFIER MITEQ JS43-1800-4000: THE USE OF THE PRE-AMPLIFIER IS DEPENDENT FROM THE FIELD STRENGTH

| Frequency | AF | Corr. |
|-----------|----------|-------|
| MHz | dB (1/m) | dB |
| 18000 | 40.2 | -23.5 |
| 18500 | 40.2 | -23.2 |
| 19000 | 40.2 | -22.0 |
| 19500 | 40.3 | -21.3 |
| 20000 | 40.3 | -20.3 |
| 20500 | 40.3 | -19.9 |
| 21000 | 40.3 | -19.1 |
| 21500 | 40.3 | -19.1 |
| 22000 | 40.3 | -18.7 |
| 22500 | 40.4 | -19.0 |
| 23000 | 40.4 | -19.5 |
| 23500 | 40.4 | -19.3 |
| 24000 | 40.4 | -19.8 |
| 24500 | 40.4 | -19.5 |
| 25000 | 40.4 | -19.3 |
| 25500 | 40.5 | -20.4 |
| 26000 | 40.5 | -21.3 |
| 26500 | 40.5 | -21.1 |

| cable | cable | cable | cable | cable |
|----------|--------|----------|---------|-----------|
| loss 1 | loss 2 | loss 3 | loss 4 | loss 5 |
| (inside | (pre- | (inside | (switch | (to |
| chamber) | amp) | chamber) | unit) | receiver) |
| dB | dB | dB | dB | dB |
| 0.72 | -35.85 | 6.20 | 2.81 | 2.65 |
| 0.69 | -35.71 | 6.46 | 2.76 | 2.59 |
| 0.76 | -35.44 | 6.69 | 3.15 | 2.79 |
| 0.74 | -35.07 | 7.04 | 3.11 | 2.91 |
| 0.72 | -34.49 | 7.30 | 3.07 | 3.05 |
| 0.78 | -34.46 | 7.48 | 3.12 | 3.15 |
| 0.87 | -34.07 | 7.61 | 3.20 | 3.33 |
| 0.90 | -33.96 | 7.47 | 3.28 | 3.19 |
| 0.89 | -33.57 | 7.34 | 3.35 | 3.28 |
| 0.87 | -33.66 | 7.06 | 3.75 | 2.94 |
| 0.88 | -33.75 | 6.92 | 3.77 | 2.70 |
| 0.90 | -33.35 | 6.99 | 3.52 | 2.66 |
| 0.88 | -33.99 | 6.88 | 3.88 | 2.58 |
| 0.91 | -33.89 | 7.01 | 3.93 | 2.51 |
| 0.88 | -33.00 | 6.72 | 3.96 | 2.14 |
| 0.89 | -34.07 | 6.90 | 3.66 | 2.22 |
| 0.86 | -35.11 | 7.02 | 3.69 | 2.28 |
| 0.90 | -35.20 | 7.15 | 3.91 | 2.36 |
| | | | | |

Sample calculation

E (dB μ V/m) = U (dB μ V) + AF (dB 1/m) + 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 table.

Table shows an extract of values.

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

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EMC tests on Andrew CAP M2 C-Band F-DC

6.4 ANTENNA ARA INC. MWH-2640-B (26 GHZ – 40 GHZ)) PARTIALLY IN CONJUNCTION WITH PRE-AMPLIFIER MITEQ JS43-1800-4000: THE USE OF THE PRE-AMPLIFIER IS DEPENDENT FROM THE FIELD STRENGTH

| _ | | |
|-----------|----------|-------|
| Frequency | AF | Corr. |
| GHz | dB (1/m) | dB |
| 26.5 | 43.4 | -11.2 |
| 27.0 | 43.4 | -11.2 |
| 28.0 | 43.4 | -11.1 |
| 29.0 | 43.5 | -11.0 |
| 30.0 | 43.5 | -10.9 |
| 31.0 | 43.5 | -10.8 |
| 32.0 | 43.5 | -10.7 |
| 33.0 | 43.6 | -10.7 |
| 34.0 | 43.6 | -10.6 |
| 35.0 | 43.6 | -10.5 |
| 36.0 | 43.6 | -10.4 |
| 37.0 | 43.7 | -10.3 |
| 38.0 | 43.7 | -10.2 |
| 39.0 | 43.7 | -10.2 |
| 40.0 | 43.8 | -10.1 |

| cable loss 1 (inside chamber) | cable loss 2 (outside chamber) | cable loss 3 (switch unit) | cable loss 4 (to receiver) | distance corr. (-20 dB/ decade) | d _{Limit} (meas. distance (limit) | d _{used} (meas. distance (used) |
|--|---|-------------------------------------|-------------------------------------|--|---|---|
| dB | dB | dB | dB | dB | m | m |
| 4.4 | | | | -9.6 | 3 | 1.0 |
| 4.4 | | | | -9.6 | 3 | 1.0 |
| 4.5 | | | | -9.6 | 3 | 1.0 |
| 4.6 | | | | -9.6 | 3 | 1.0 |
| 4.7 | | | | -9.6 | 3 | 1.0 |
| 4.7 | | | | -9.6 | 3 | 1.0 |
| 4.8 | | | | -9.6 | 3 | 1.0 |
| 4.9 | | | | -9.6 | 3 | 1.0 |
| 5.0 | | | | -9.6 | 3 | 1.0 |
| 5.1 | | | | -9.6 | 3 | 1.0 |
| 5.1 | | | | -9.6 | 3 | 1.0 |
| 5.2 | | | | -9.6 | 3 | 1.0 |
| 5.3 | | | | -9.6 | 3 | 1.0 |
| 5.4 | | | | -9.6 | 3 | 1.0 |
| 5.5 | | | | -9.6 | 3 | 1.0 |

Sample calculation

E (dB μ V/m) = U (dB μ V) + AF (dB 1/m) + 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 table.

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

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

Table shows an extract of values.

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

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EMC tests on Andrew CAP M2 C-Band F-DC

7 MEASUREMENT UNCERTAINTIES

| KDB 935210 D05 | ECL |
|---|----------------------|
| Power measurement | 0,68 dB |
| Measuring AGC threshold level | 0,90 dB |
| Out of band rejection | 0,90 dB |
| Input-versus-output signal comparison | 0,91 dB |
| Mean power output | 0,90 dB |
| Measuring out-of-band/out-of-block (including intermodulation) emissions and spurious emissions | 0,90 dB |
| Out-of-band/out-of-block emissions conducted measurements | 0,90 dB |
| Spurious emissions conducted | 2,18 dB |
| Spurious emissions radiated mesurements | 5,38 dB |
| Total frequency uncertainty | 2 x 10 ⁻⁷ |

Reference:

ECL-MU5.4.6.3-EMC-14-001-V03.00 MU Wireless.xlsx

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B U R E A U VERITAS

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8 PHOTO REPORT

Please see separate photo report.

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EMC tests on Andrew CAP M2 C-Band F-DC

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

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Annex B: Additional information provided by client

None.

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

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