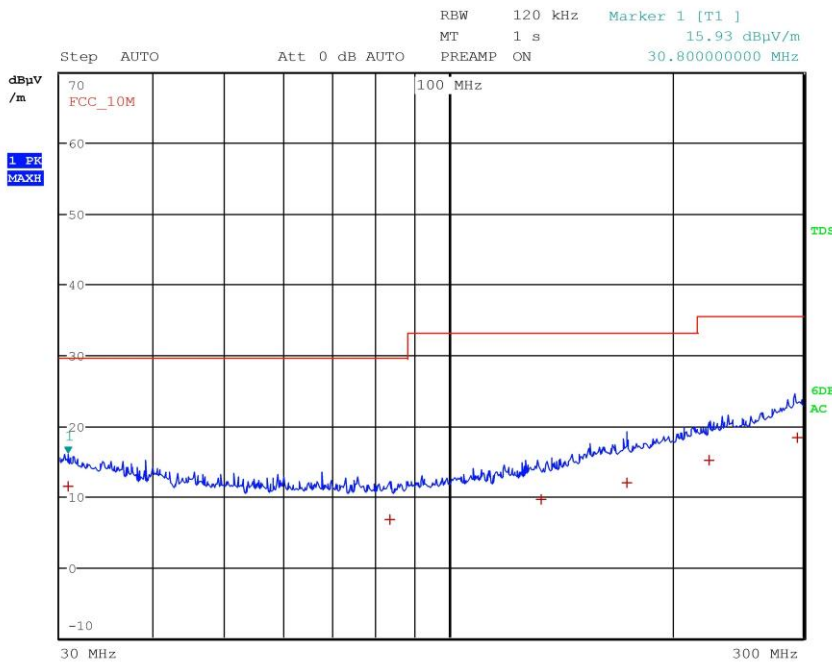




G161957137

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957137
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

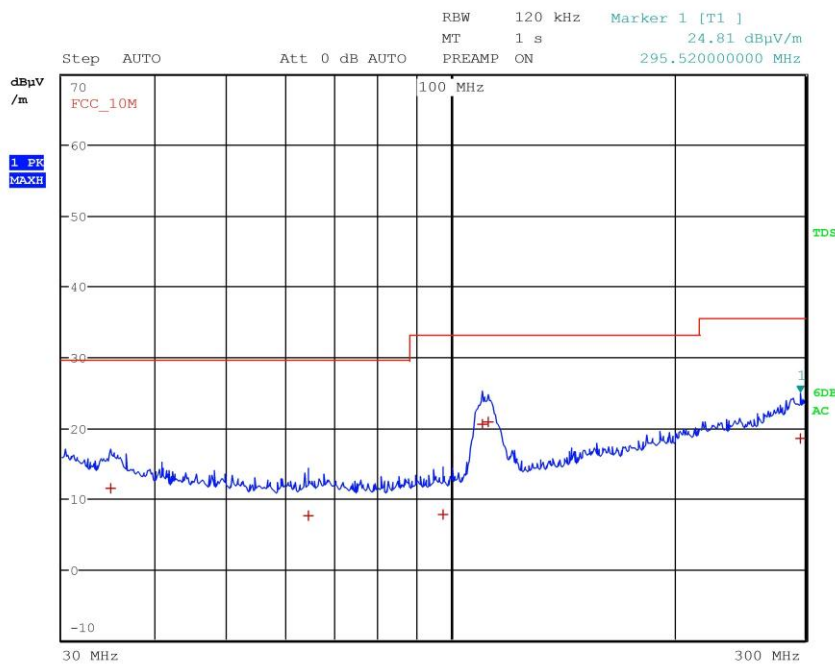
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 30.800000000 MHz | 11.37 | Quasi Peak | -18.17 |
| 1 | 83.280000000 MHz | 6.78 | Quasi Peak | -22.76 |
| 1 | 133.040000000 MHz | 9.58 | Quasi Peak | -23.48 |
| 1 | 173.400000000 MHz | 11.99 | Quasi Peak | -21.07 |
| 1 | 224.000000000 MHz | 15.21 | Quasi Peak | -20.35 |
| 1 | 294.440000000 MHz | 18.38 | Quasi Peak | -17.18 |

CMC Centro Misure Compatibilità S.r.l.



G161957138

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957138
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

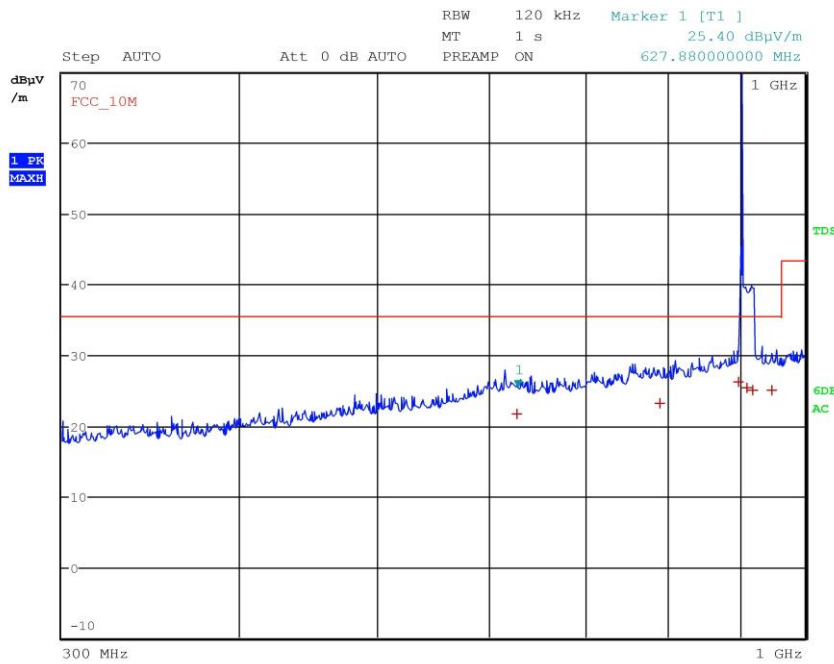
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 34.920000000 MHz | 11.50 | Quasi Peak | -18.04 |
| 1 | 64.320000000 MHz | 7.60 | Quasi Peak | -21.94 |
| 1 | 97.720000000 MHz | 7.66 | Quasi Peak | -25.40 |
| 1 | 110.280000000 MHz | 20.43 | Quasi Peak | -12.63 |
| 1 | 112.360000000 MHz | 20.87 | Quasi Peak | -12.19 |
| 1 | 295.520000000 MHz | 18.53 | Quasi Peak | -17.03 |

CMC Centro Misure Compatibilità S.r.l.



G161957139

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957139
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

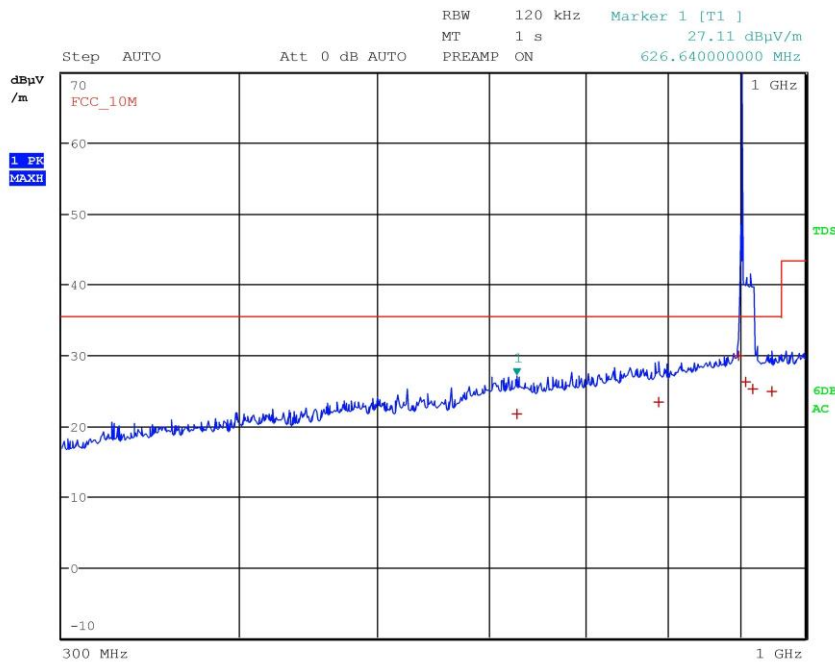
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 626.640000000 MHz | 21.66 | Quasi Peak | -13.90 |
| 1 | 789.280000000 MHz | 23.16 | Quasi Peak | -12.40 |
| 1 | 897.920000000 MHz | 26.26 | Quasi Peak | -9.30 |
| 1 | 908.520000000 MHz | 25.33 | Quasi Peak | -10.23 |
| 1 | 918.720000000 MHz | 25.07 | Quasi Peak | -10.49 |
| 1 | 946.600000000 MHz | 24.99 | Quasi Peak | -10.57 |

CMC Centro Misure Compatibilità S.r.l.



G161957140

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957140
Test Spec



Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 6

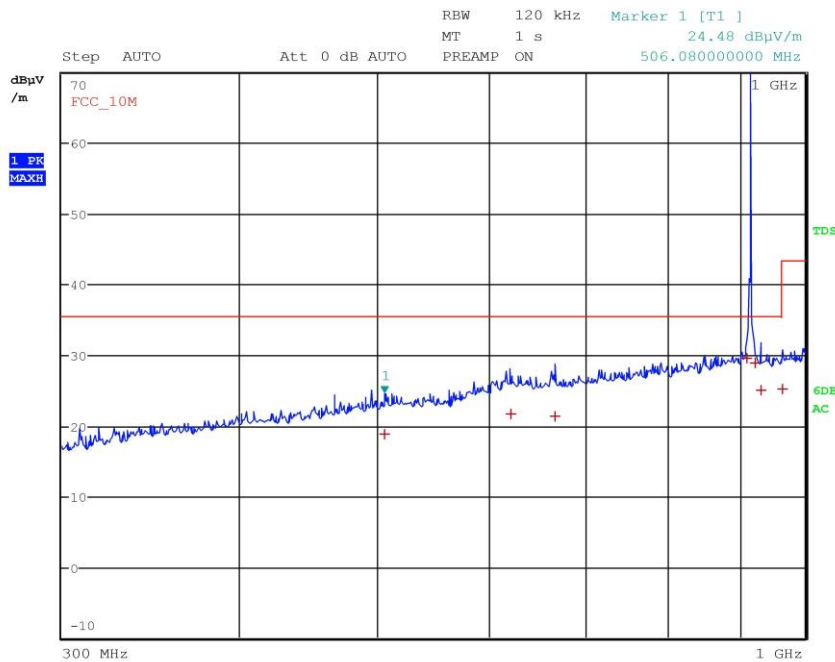
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 626.640000000 MHz | 21.60 | Quasi Peak | -13.96 |
| 1 | 789.280000000 MHz | 23.42 | Quasi Peak | -12.14 |
| 1 | 897.920000000 MHz | 29.93 | Quasi Peak | -5.63 |
| 1 | 908.520000000 MHz | 26.19 | Quasi Peak | -9.37 |
| 1 | 918.720000000 MHz | 25.22 | Quasi Peak | -10.34 |
| 1 | 946.600000000 MHz | 24.89 | Quasi Peak | -10.67 |

CMC Centro Misure Compatibilità S.r.l.



G161957141

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957141
Test Spec



Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 7

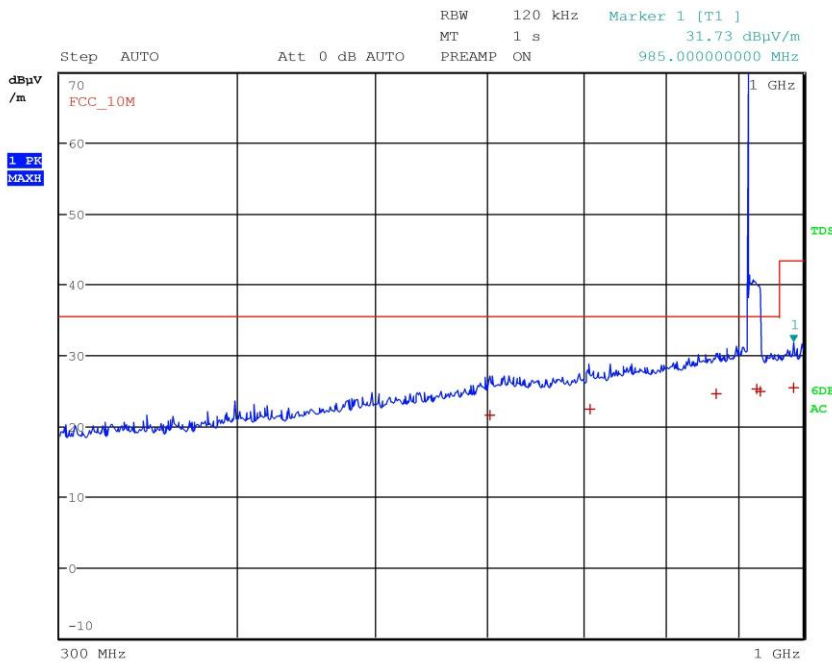
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|------------------|----------------|------------|----------------|
| 1 | 506.08000000 MHz | 18.88 | Quasi Peak | -16.68 |
| 1 | 621.24000000 MHz | 21.65 | Quasi Peak | -13.91 |
| 1 | 666.52000000 MHz | 21.42 | Quasi Peak | -14.14 |
| 1 | 909.52000000 MHz | 29.66 | Quasi Peak | -5.90 |
| 1 | 921.24000000 MHz | 28.91 | Quasi Peak | -6.65 |
| 1 | 930.84000000 MHz | 24.98 | Quasi Peak | -10.58 |
| 1 | 964.44000000 MHz | 25.28 | Quasi Peak | -18.24 |

CMC Centro Misure Compatibilità S.r.l.



G161957142

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957142
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

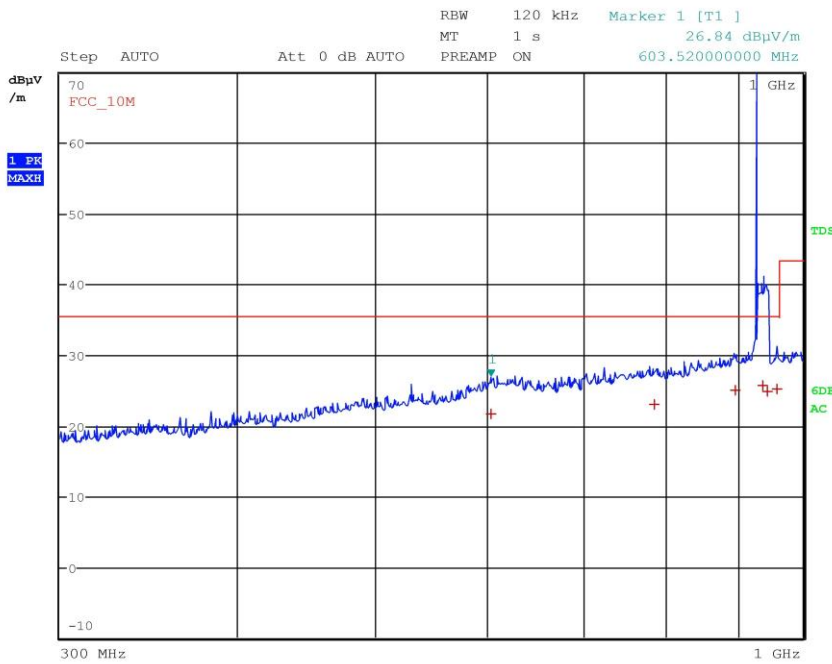
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 602.080000000 MHz | 21.49 | Quasi Peak | -14.07 |
| 1 | 707.720000000 MHz | 22.30 | Quasi Peak | -13.26 |
| 1 | 869.360000000 MHz | 24.47 | Quasi Peak | -11.09 |
| 1 | 927.040000000 MHz | 25.16 | Quasi Peak | -10.40 |
| 1 | 932.520000000 MHz | 24.92 | Quasi Peak | -10.64 |
| 1 | 985.000000000 MHz | 25.45 | Quasi Peak | -18.07 |

CMC Centro Misure Compatibilità S.r.l.



G161957143

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957143
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

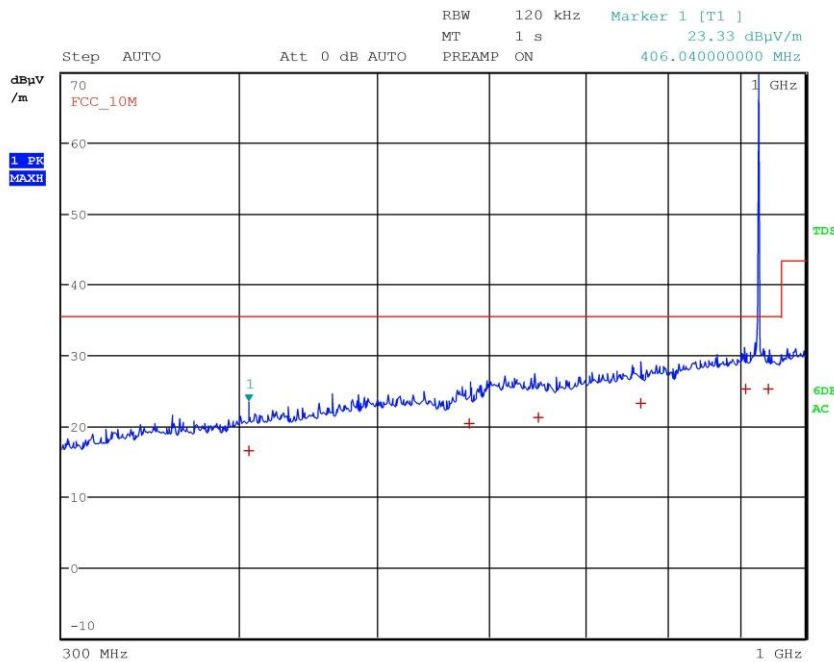
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 603.520000000 MHz | 21.64 | Quasi Peak | -13.92 |
| 1 | 786.320000000 MHz | 23.11 | Quasi Peak | -12.45 |
| 1 | 895.880000000 MHz | 25.03 | Quasi Peak | -10.53 |
| 1 | 935.600000000 MHz | 25.71 | Quasi Peak | -9.85 |
| 1 | 943.960000000 MHz | 24.92 | Quasi Peak | -10.64 |
| 1 | 957.560000000 MHz | 25.13 | Quasi Peak | -10.43 |

CMC Centro Misure Compatibilità S.r.l.



G161957144

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957144
Test Spec



Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 6

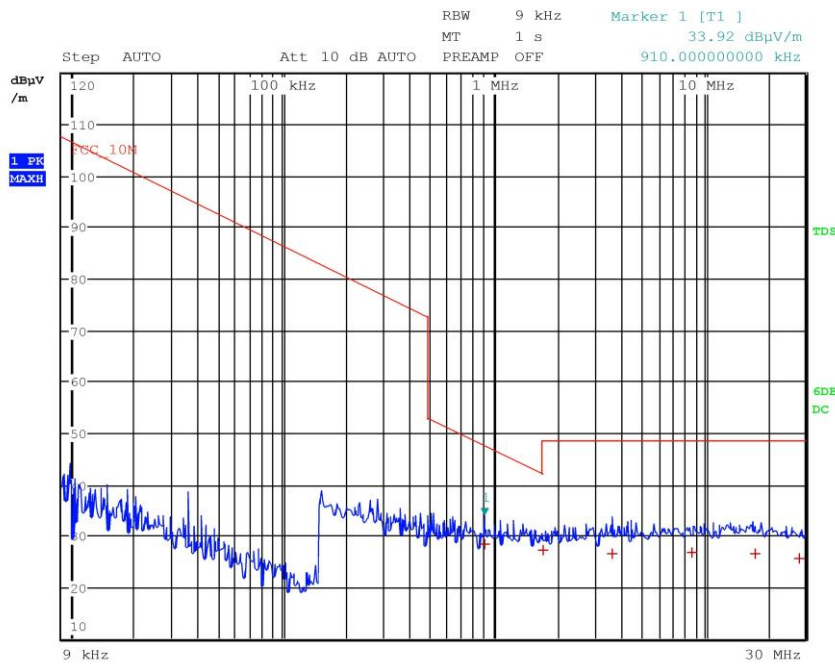
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-------------------|----------------|------------|----------------|
| 1 | 406.040000000 MHz | 16.52 | Quasi Peak | -19.04 |
| 1 | 580.400000000 MHz | 20.26 | Quasi Peak | -15.30 |
| 1 | 649.040000000 MHz | 21.19 | Quasi Peak | -14.37 |
| 1 | 765.680000000 MHz | 23.19 | Quasi Peak | -12.37 |
| 1 | 908.080000000 MHz | 25.17 | Quasi Peak | -10.39 |
| 1 | 942.560000000 MHz | 25.23 | Quasi Peak | -10.33 |

CMC Centro Misure Compatibilità S.r.l.



G161957145

Meas Type Emission 10m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957145
Test Spec



Final Measurement

Meas Time: 1 s
Margin: 6 dB
Subranges: 6

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|------------------|----------------|------------|----------------|
| 1 | 910.00000000 kHz | 28.33 | Quasi Peak | -19.17 |
| 1 | 1.714000000 MHz | 27.19 | Quasi Peak | -21.44 |
| 1 | 3.630000000 MHz | 26.63 | Quasi Peak | -22.00 |
| 1 | 8.734000000 MHz | 26.68 | Quasi Peak | -21.95 |
| 1 | 17.418000000 MHz | 26.55 | Quasi Peak | -22.08 |
| 1 | 27.946000000 MHz | 25.54 | Quasi Peak | -23.09 |

Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.4 20 dB bandwidth

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
 Measurement uncertainty: See clause 7 of this test report

Test specification

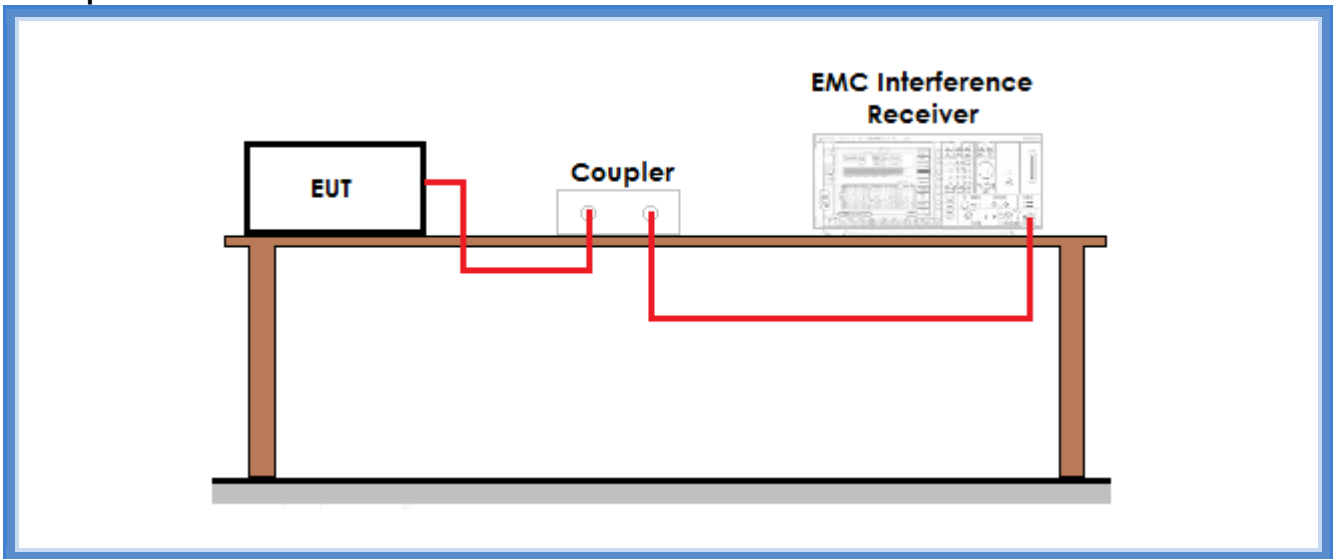
See FCC Part 15.247

Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 22 | 100 | 45 |

Acceptance limits: The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

Setup



Result

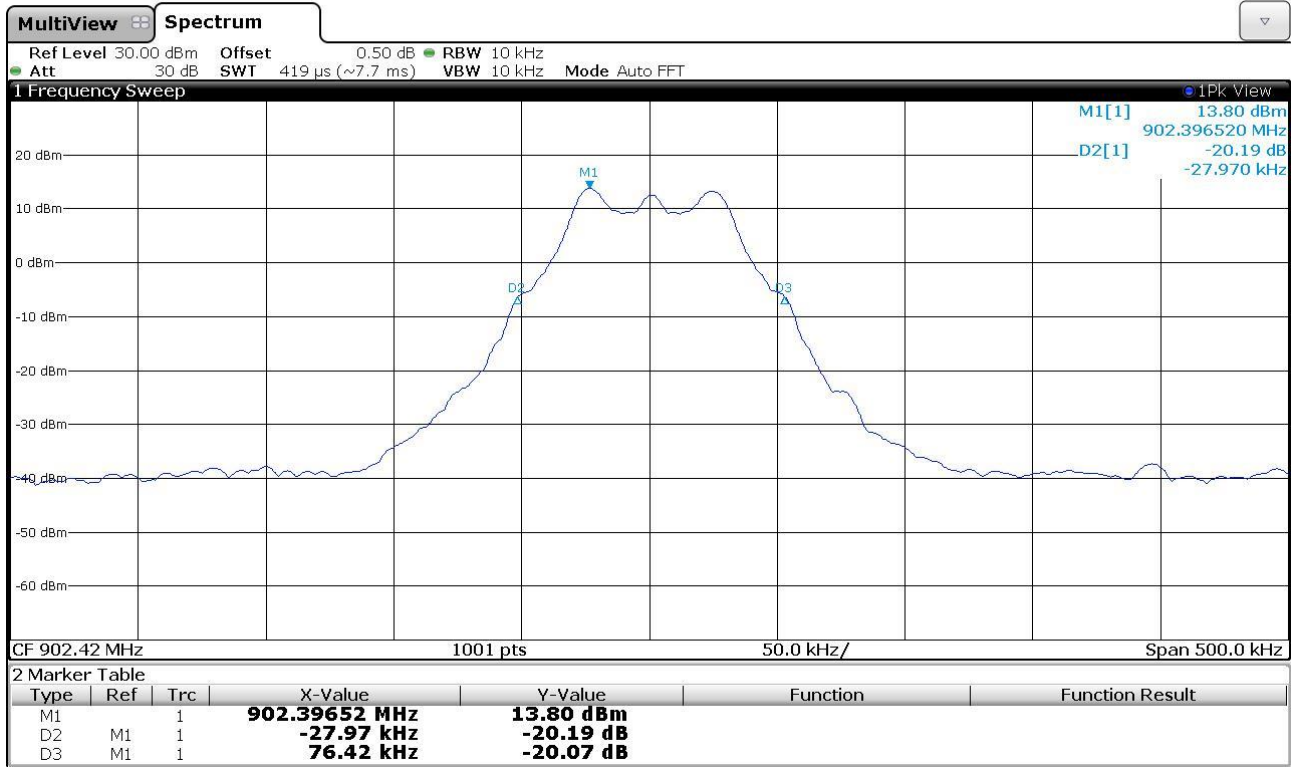
| Frequency (MHz) | Graphs | 20 dB bandwidth (kHz) | Maximum 20 dB bandwidth allowed (kHz) | Results |
|-----------------|------------|-----------------------|---------------------------------------|----------|
| 902,42 | G161957100 | 104,39 | 500 | Complies |
| 915,00 | G161957103 | 105,89 | 500 | Complies |
| 927,58 | G161957105 | 106,39 | 500 | Complies |



Graphs

G161957100

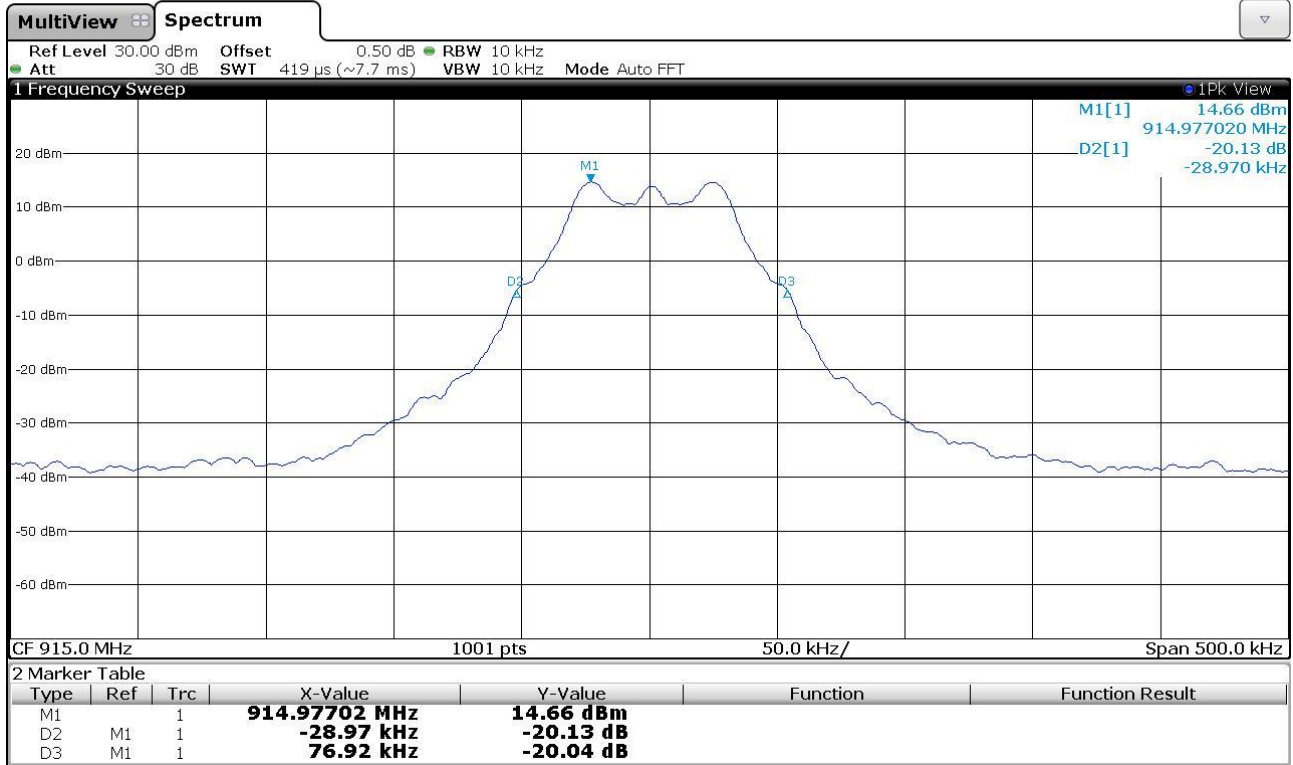
Bertezolo 161957100





G161957103

Bertezzo 161957103

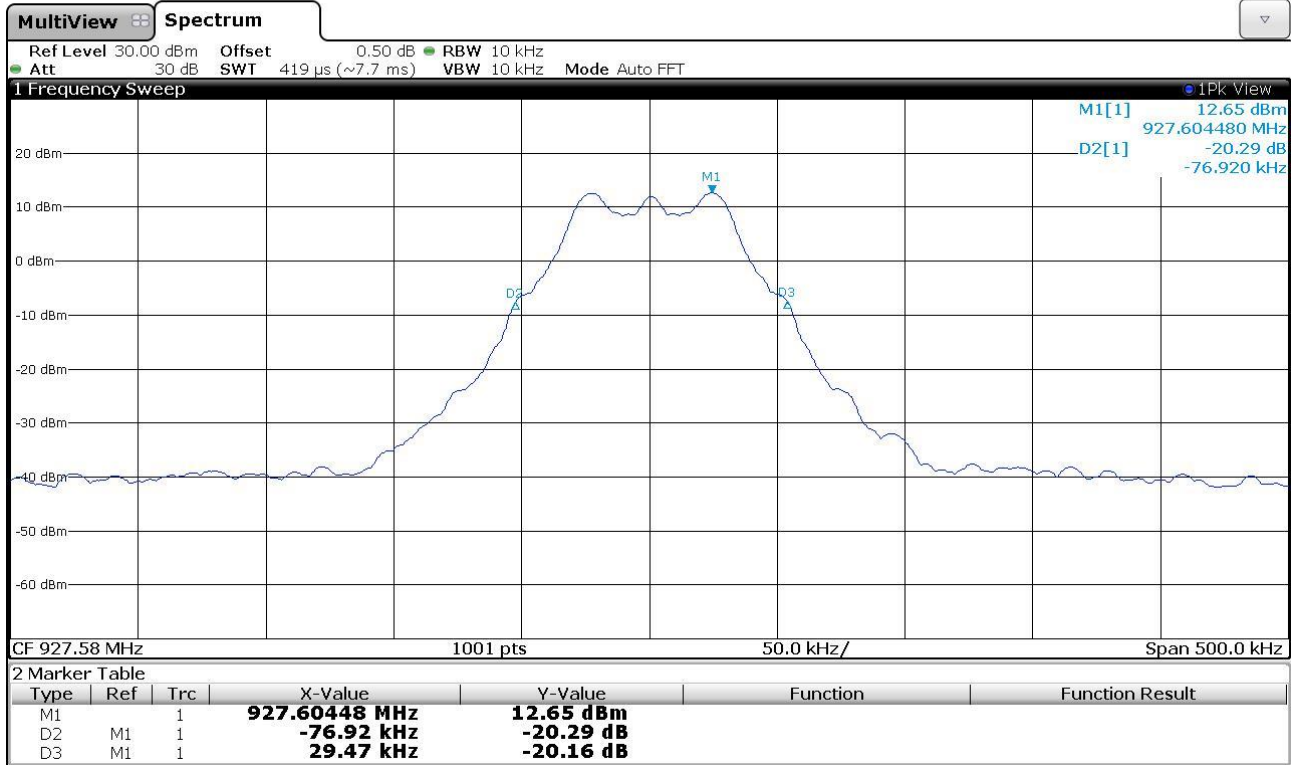


CMC Centro Misure Compatibilità S.r.l.



G161957105

Bertezzo 161957105



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.5 Channel separation

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
 Measurement uncertainty: See clause 7 of this test report

Test specification

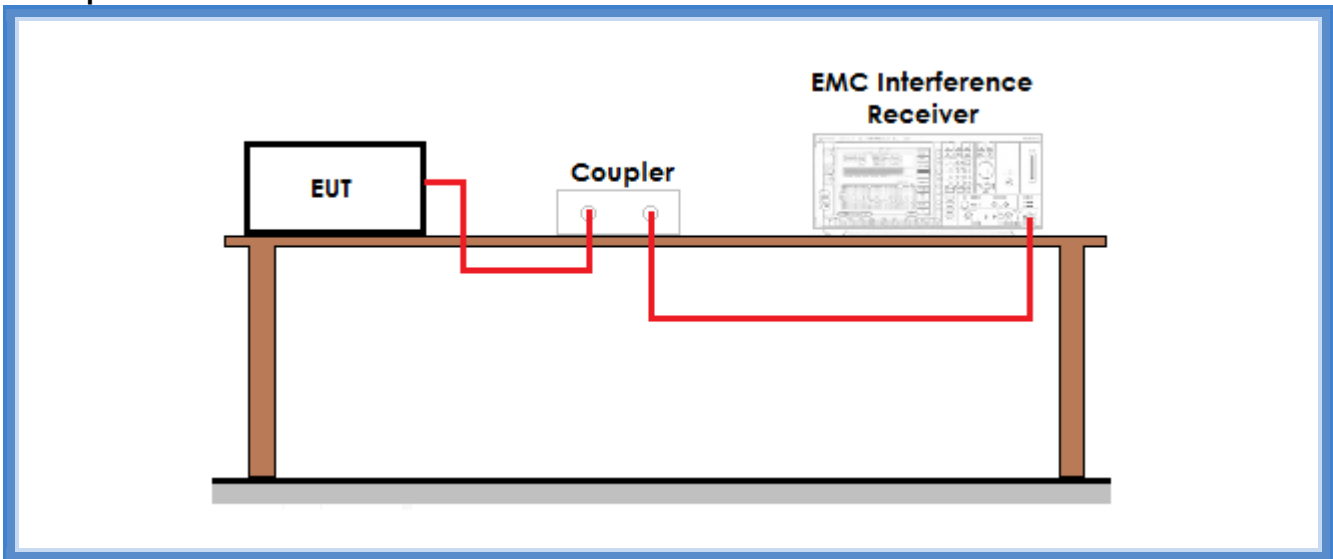
See FCC Part 15.247

Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 20 | 100 | 42 |

Acceptance limits: frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483,5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

Setup



Result

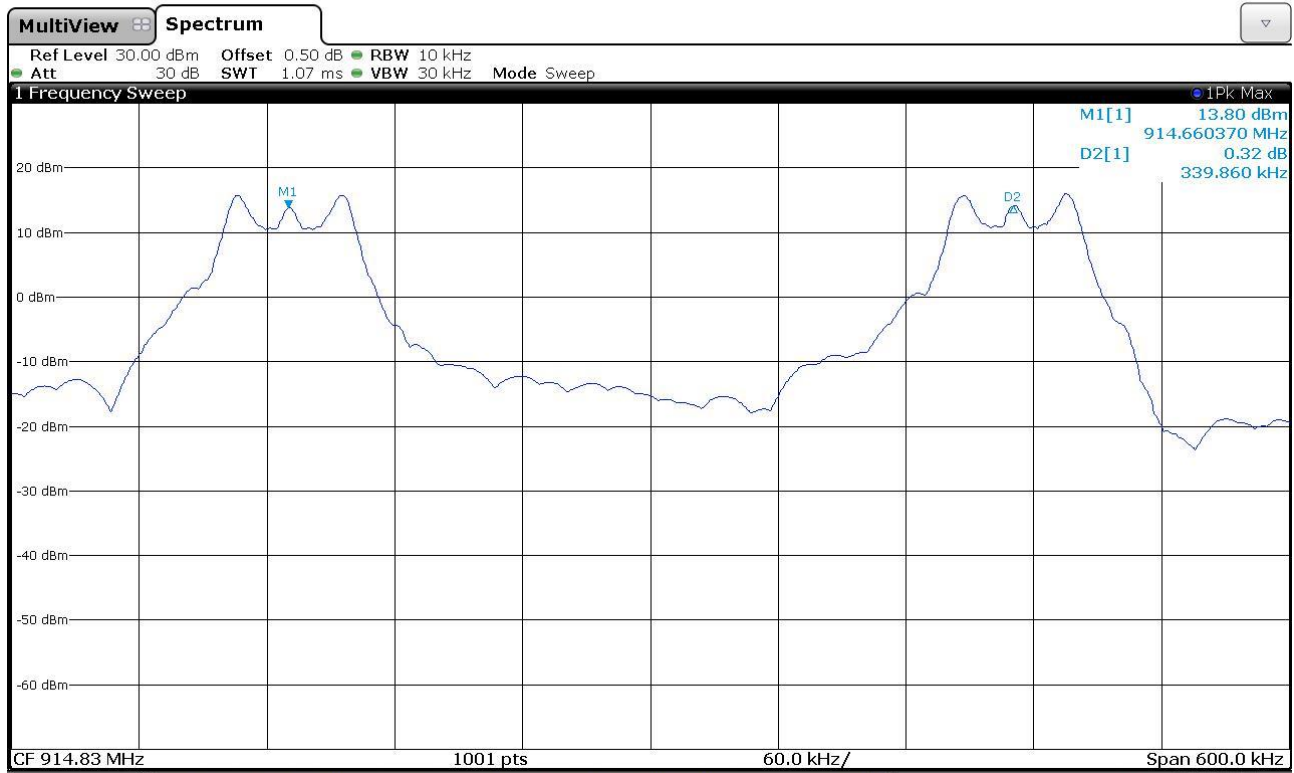
| Frequency band (MHz) | Graphs | Channel separation (kHz) | Minimum channel separation required (kHz) | Results |
|----------------------|------------|--------------------------|--|----------|
| 902,42 – 927,58 | G161957119 | 339,86 | 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater | Complies |



Graphs

G161957119

Bertezzo 161957119



Result: The requirements are met



11.6 Number of hopping channels

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
 Measurement uncertainty: See clause 7 of this test report

Test specification

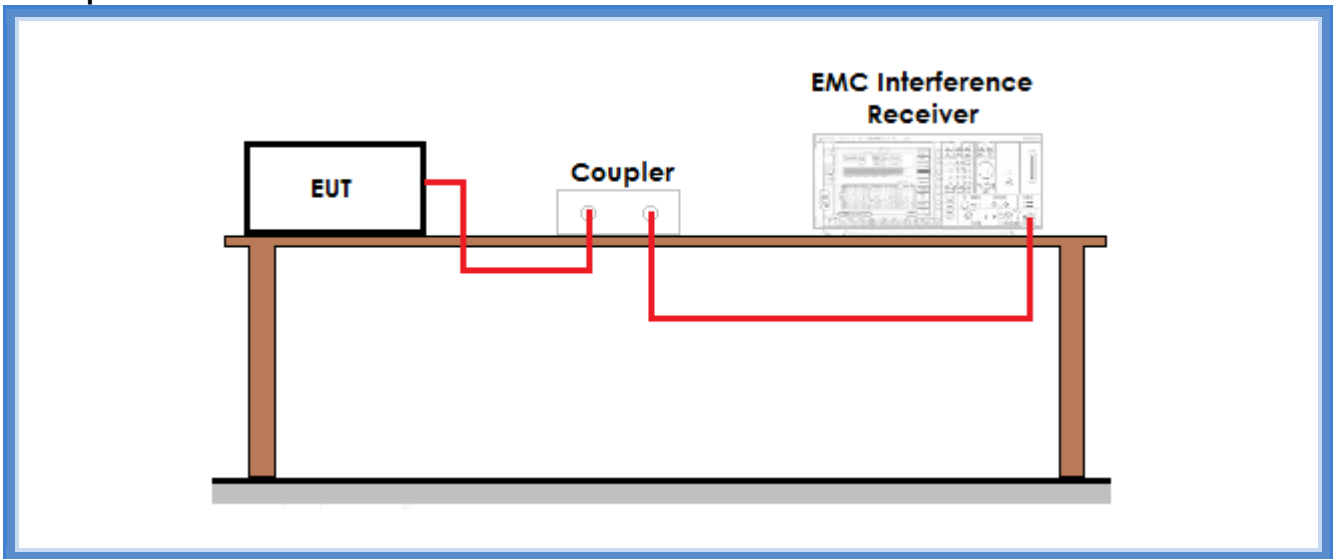
See FCC Part 15.247

Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 20 | 100 | 42 |

Acceptance limits: for frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies. Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Setup



Result

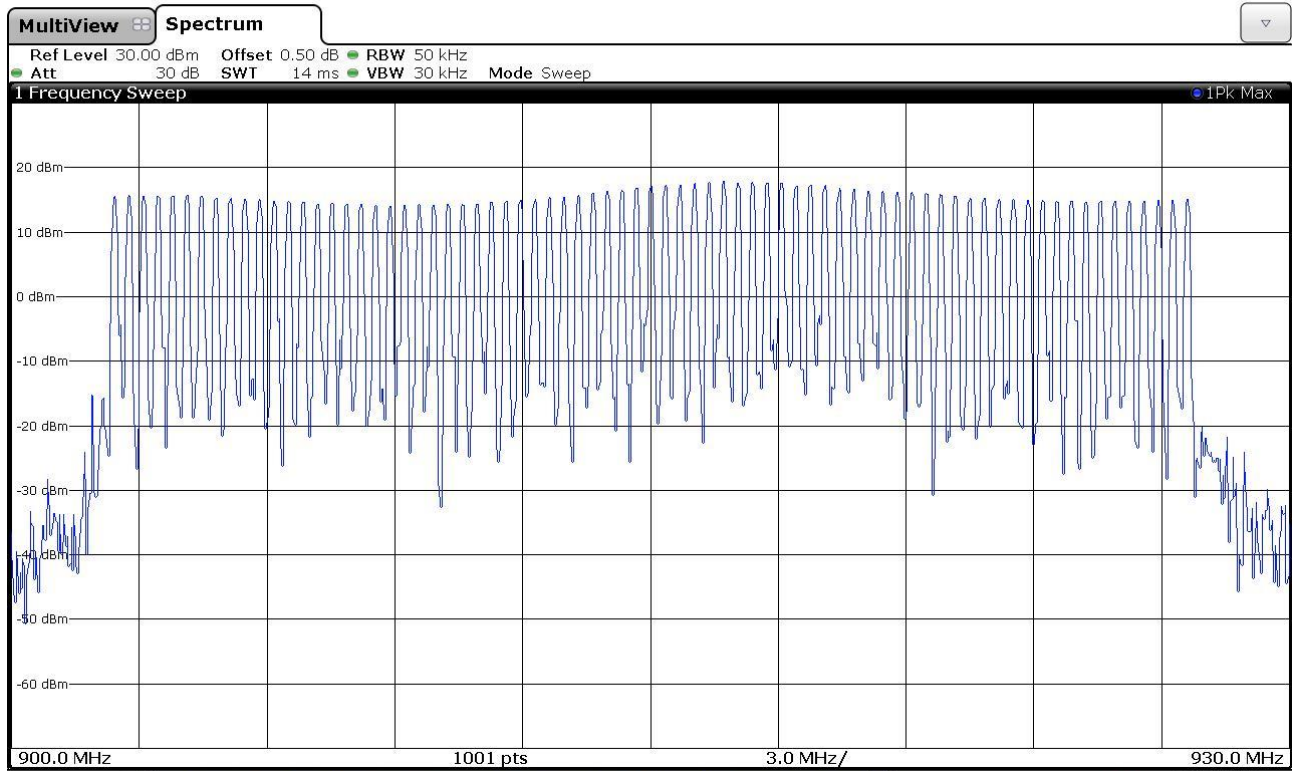
| Frequency band (MHz) | Graphs | Number of hopping channels | Minimum number of hopping channels required | Results |
|----------------------|------------|----------------------------|---|----------|
| 902,42 – 927,58 | G161957122 | 75 | 50 if the 20 dB bandwidth is less than 250 kHz 25 if the 20 dB bandwidth is 250 kHz or greater | Complies |



Graphs

G161957122

Bertezolo 161957122



Result: The requirements are met



11.7 Time of occupancy

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

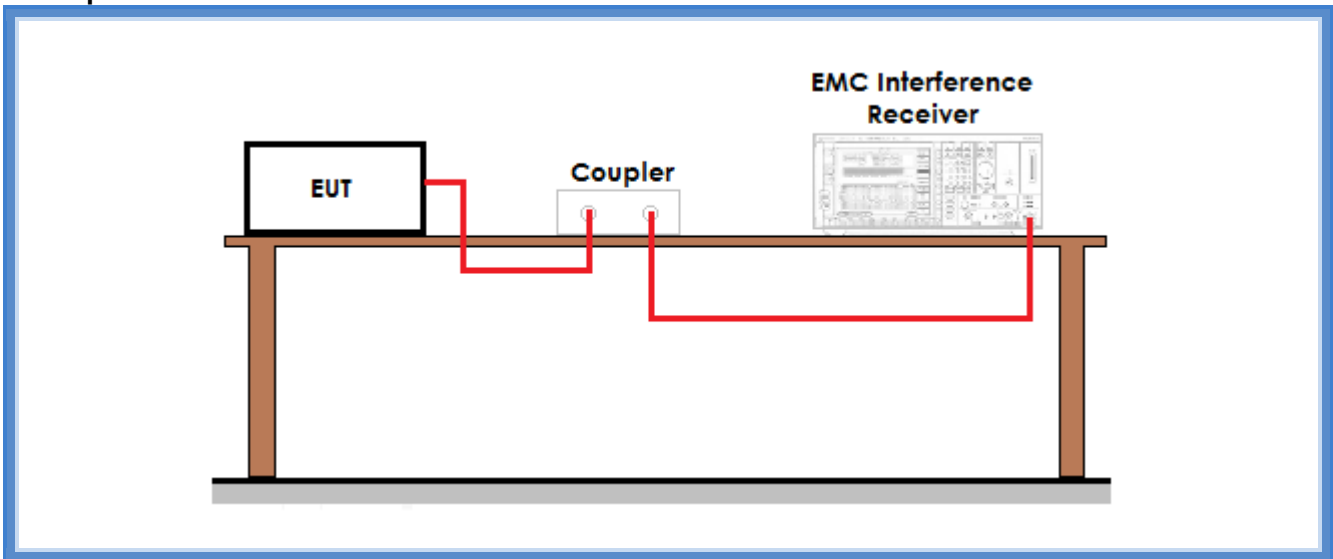
Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 22 | 100 | 42 |

Acceptance limits:

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period

Setup



Result

Dwell time of transmission

| Frequency (MHz) | Graphs | Dwell time (ms) |
|-----------------|------------|-----------------|
| 927,58 | G161957123 | 257,7 |

| Frequency (MHz) | Transmission duration on 1 channel | |
|-----------------|------------------------------------|----------|
| 927,58 | G161957125 | 379,5 ms |

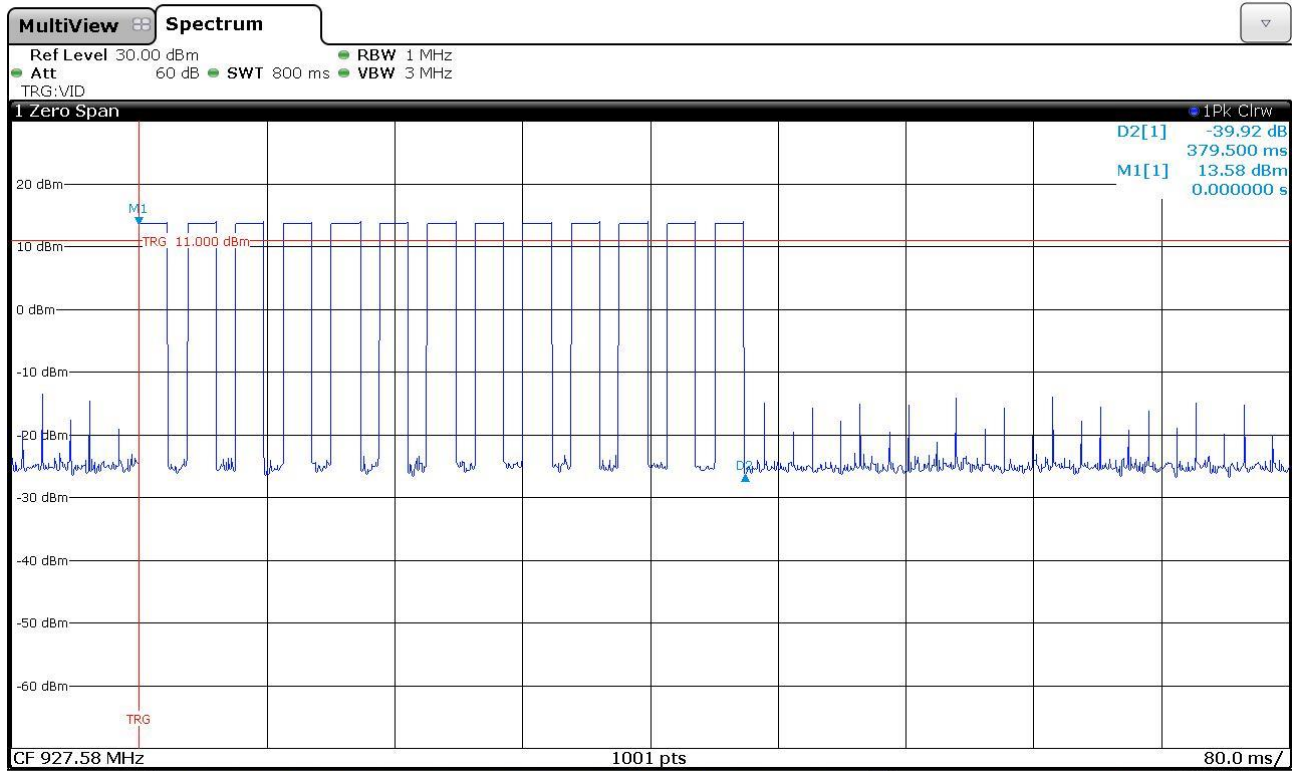
| Frequency (MHz) | Time between 2 transmission on different channels | |
|-----------------|---|----------|
| 927,58 | G161957125 | 13,15 ms |



Graphs

G161957123

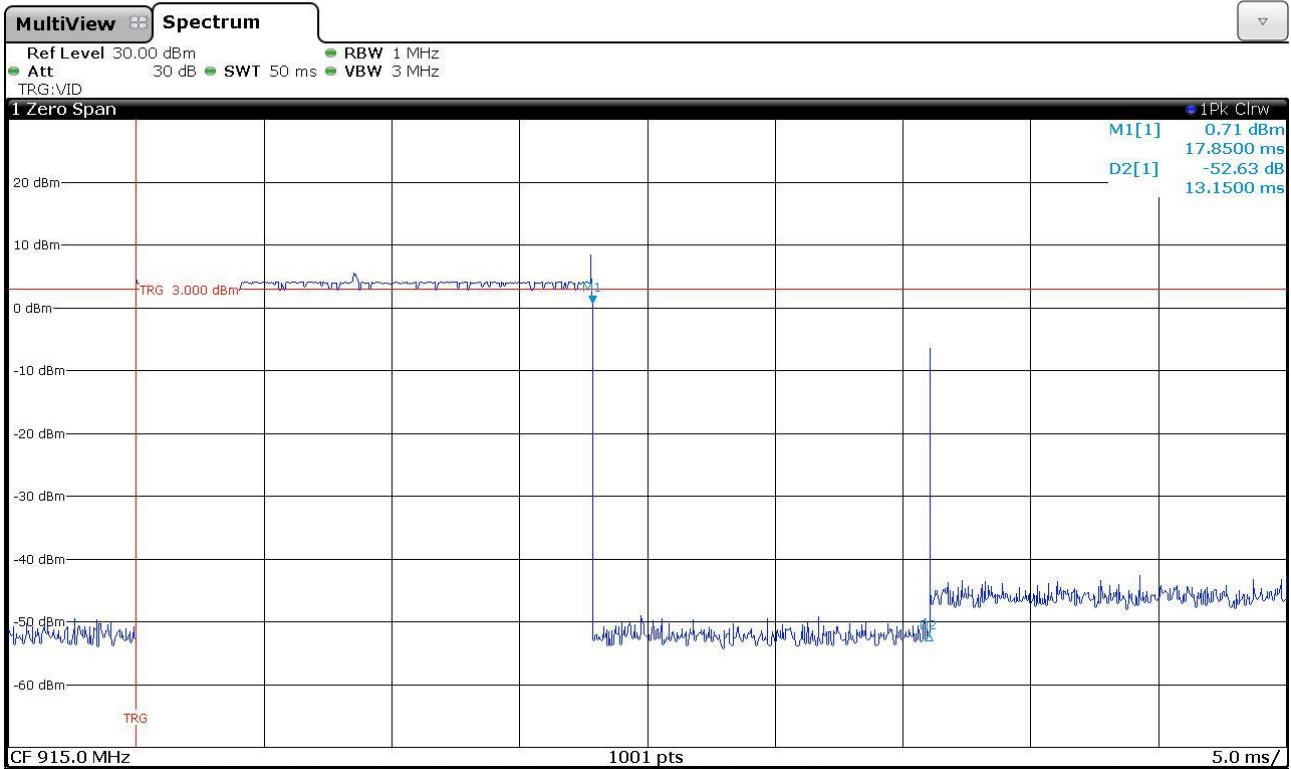
Bertezolo 161957123





G161957125

Bertezzo 161957125



Result: The requirements are met



11.8 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
 Measurement uncertainty: See clause 7 of this test report

Test specification

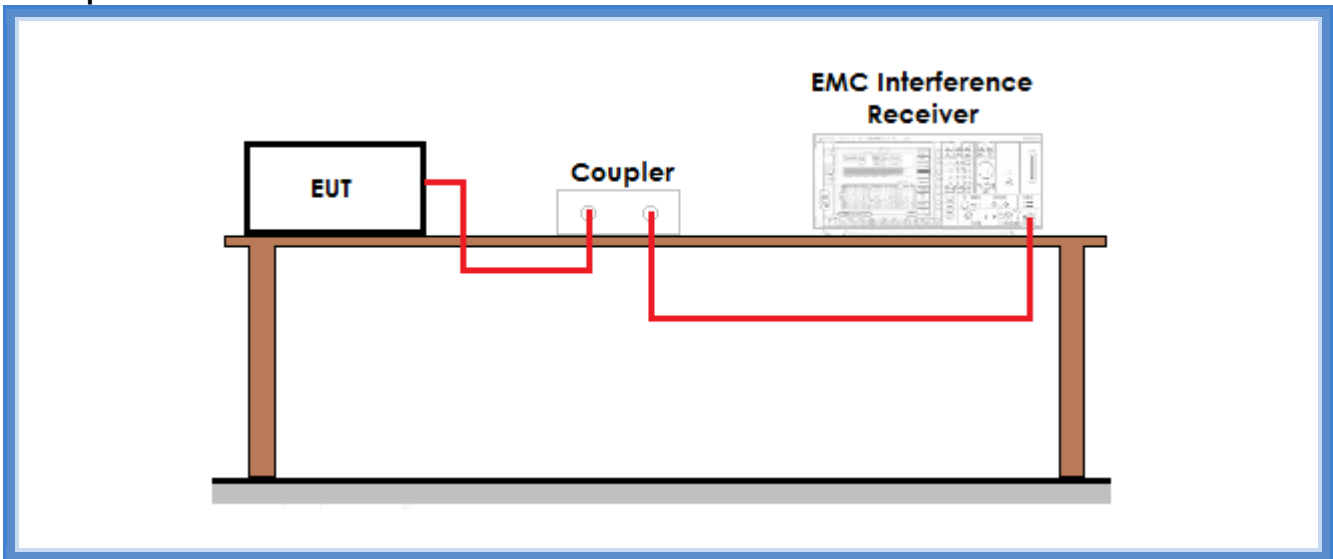
See FCC Part 15.247

Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 22 | 100 | 45 |

Acceptance limits: operation within the band 902 – 928 MHz

Setup



Result

| Frequency (MHz) | Graph(s) – Hopping | Results | |
|-----------------|--------------------|-------------------------------|----------|
| 902,42 | G161957118 | F _L : 902,2957 MHz | Complies |
| 927,58 | G161957115 | F _H : 927,7203 MHz | Complies |

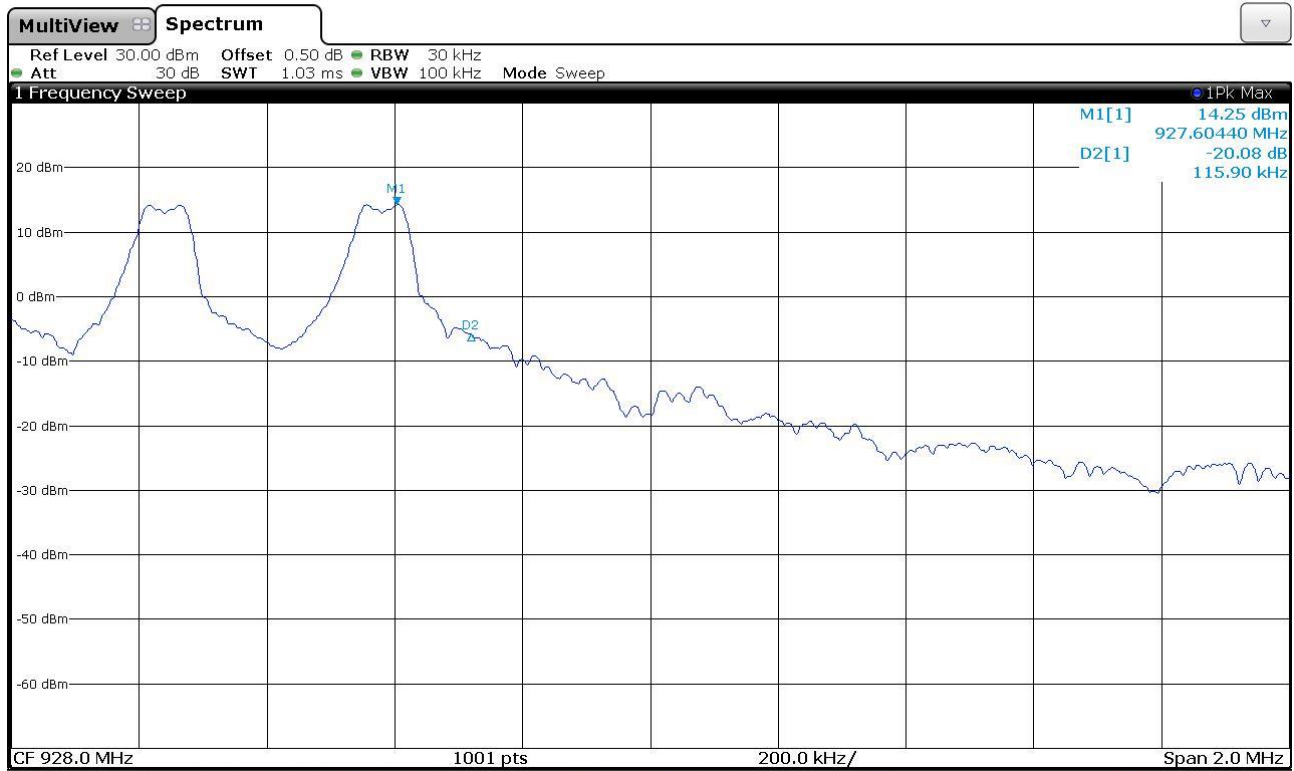
| Frequency (MHz) | Graph(s) – No hopping | Results | |
|-----------------|-----------------------|-------------------------------|----------|
| 902,42 | G161957117 | F _L : 902,3517 MHz | Complies |
| 927,58 | G161957116 | F _H : 927,6504 MHz | Complies |



Graphs

G16195715

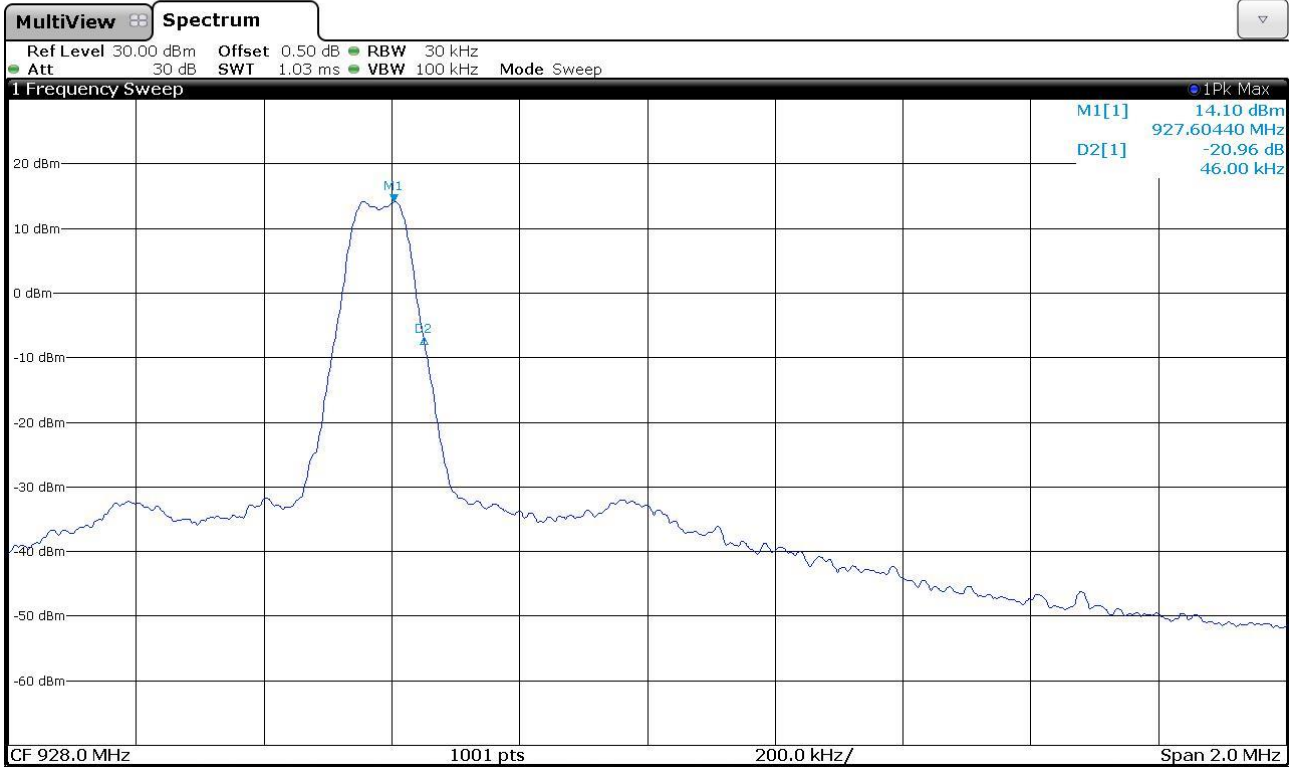
Bertezolo 161957115





G16195716

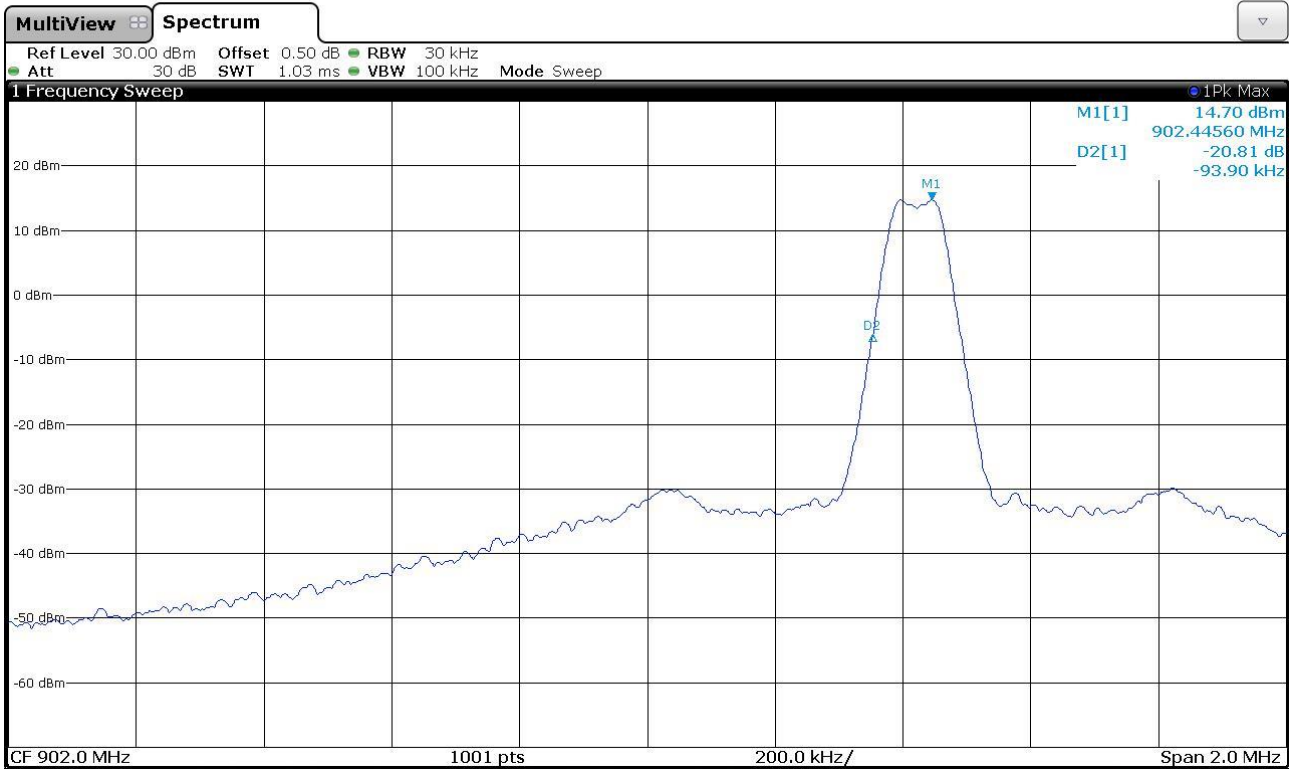
Bertezolo 161957116





G16195717

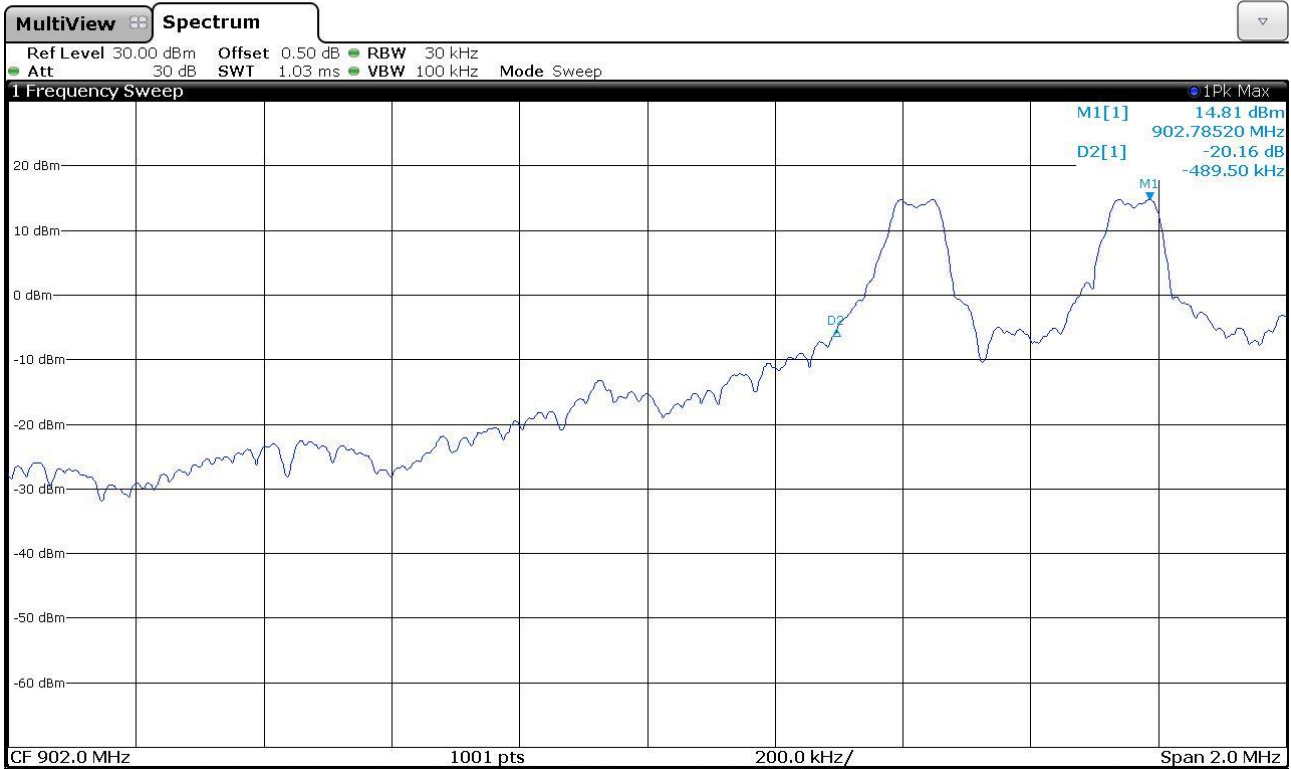
Bertezzo 161957117





G16195718

Bertezolo 161957118



Result: The requirements are met



11.9 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
 Measurement uncertainty: See clause 7 of this test report

Test specification

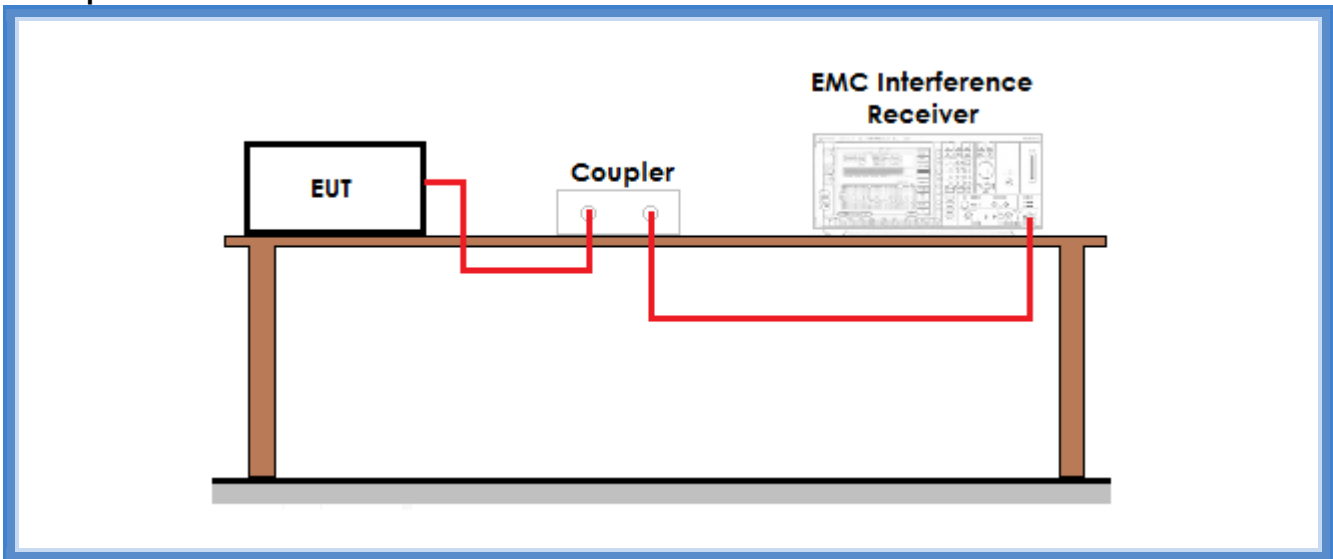
Port: Antenna

Environmental conditions

| <i>Temperature (°C)</i> | <i>Atmospheric pressure (kPa)</i> | <i>Relative humidity (%)</i> |
|-----------------------------|---------------------------------------|----------------------------------|
| 20 | 100 | 45 |

For frequency hopping systems operating in the 2400–2483,5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483,5 MHz band: 0,125 watts. For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0,25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.

Setup



Result

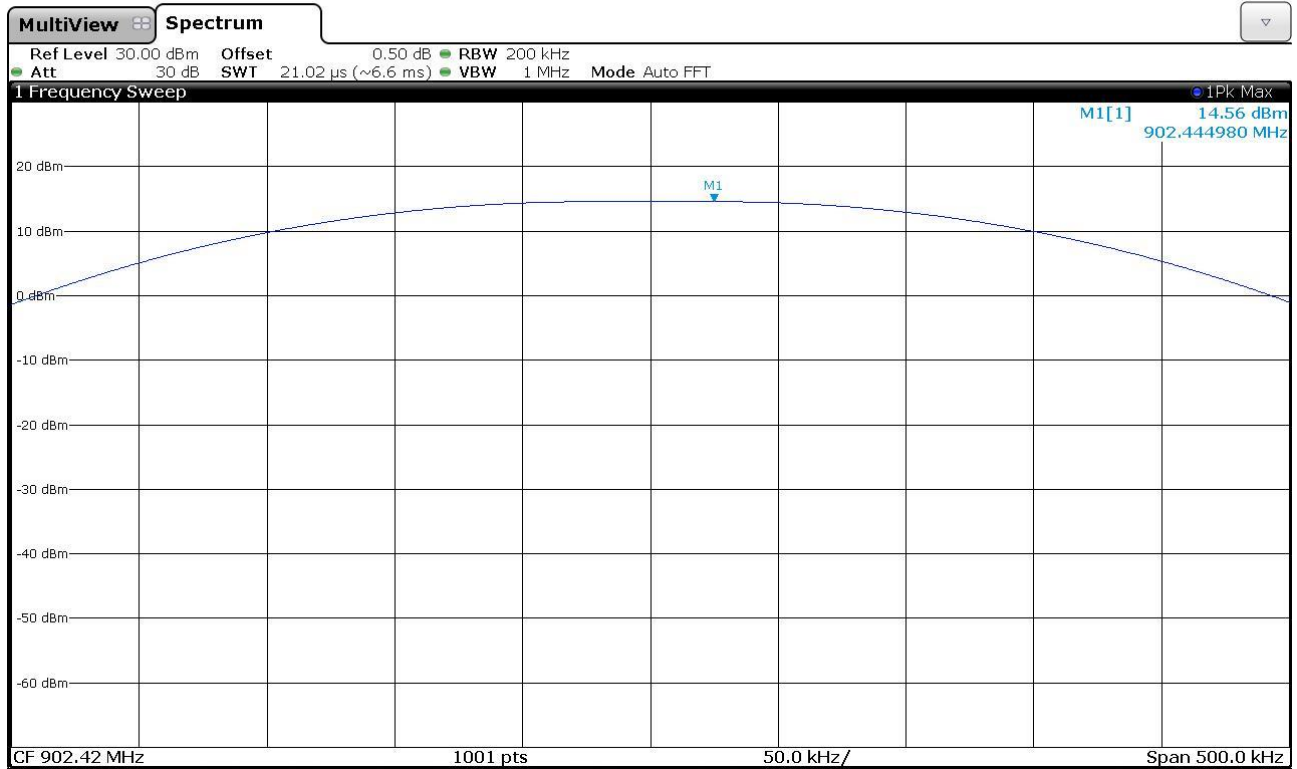
| Frequency (MHz) | Graphs | Conducted measured level (dBm) | Conducted power level (mW) | Calculated radiated level (dB μ V/m) |
|-----------------|------------|--------------------------------|----------------------------|--|
| 902,42 | G161957106 | 14,56 | 28,58 | 111,94 |
| 915,00 | G161957107 | 15,84 | 38,37 | 113,22 |
| 927,58 | G161957108 | 13,92 | 24,66 | 111,30 |



Graphs

G161957106

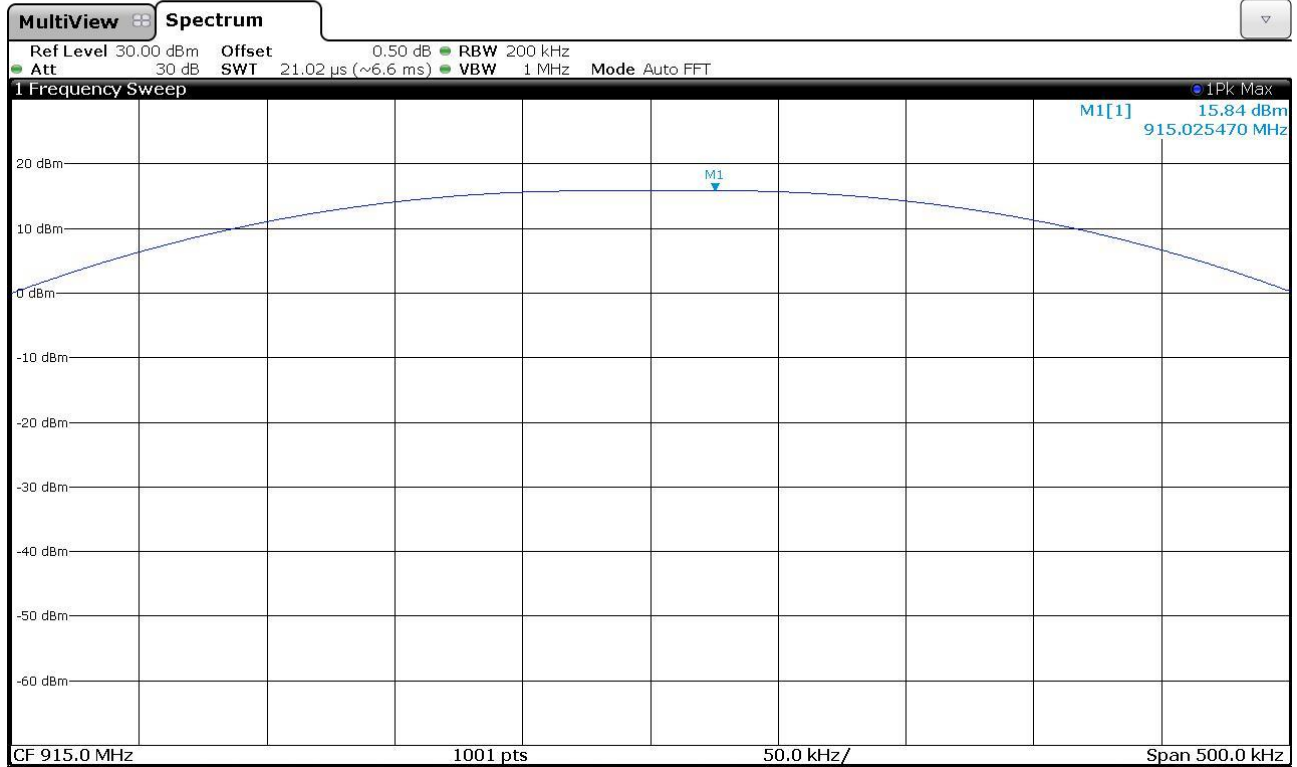
Bertezzo 161957106





G161957107

Bertezzo 161957107

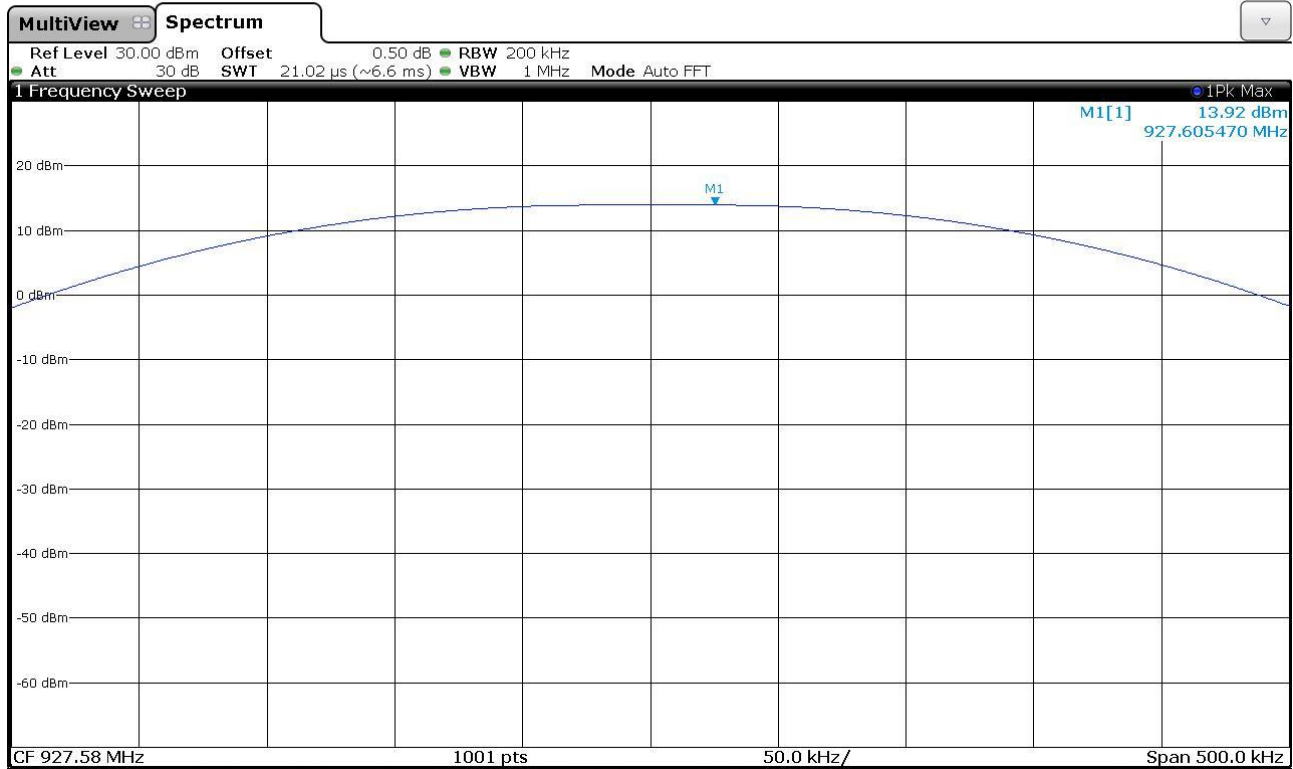


CMC Centro Misure Compatibilità S.r.l.



G161957108

Bertezzo 161957108



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.10 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m
Detector AV + Peak

Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|------------------|----------------------------|-----------------------|
| 22 | 100 | 45 |

Acceptance limits

| Acceptance limits for emissions in restricted frequency bands | | |
|---|----------------------|------------------------|
| Frequency (MHz) | AV limits [dB(μV/m)] | Peak limits [dB(μV/m)] |
| > 1000 | 54 | 74 |



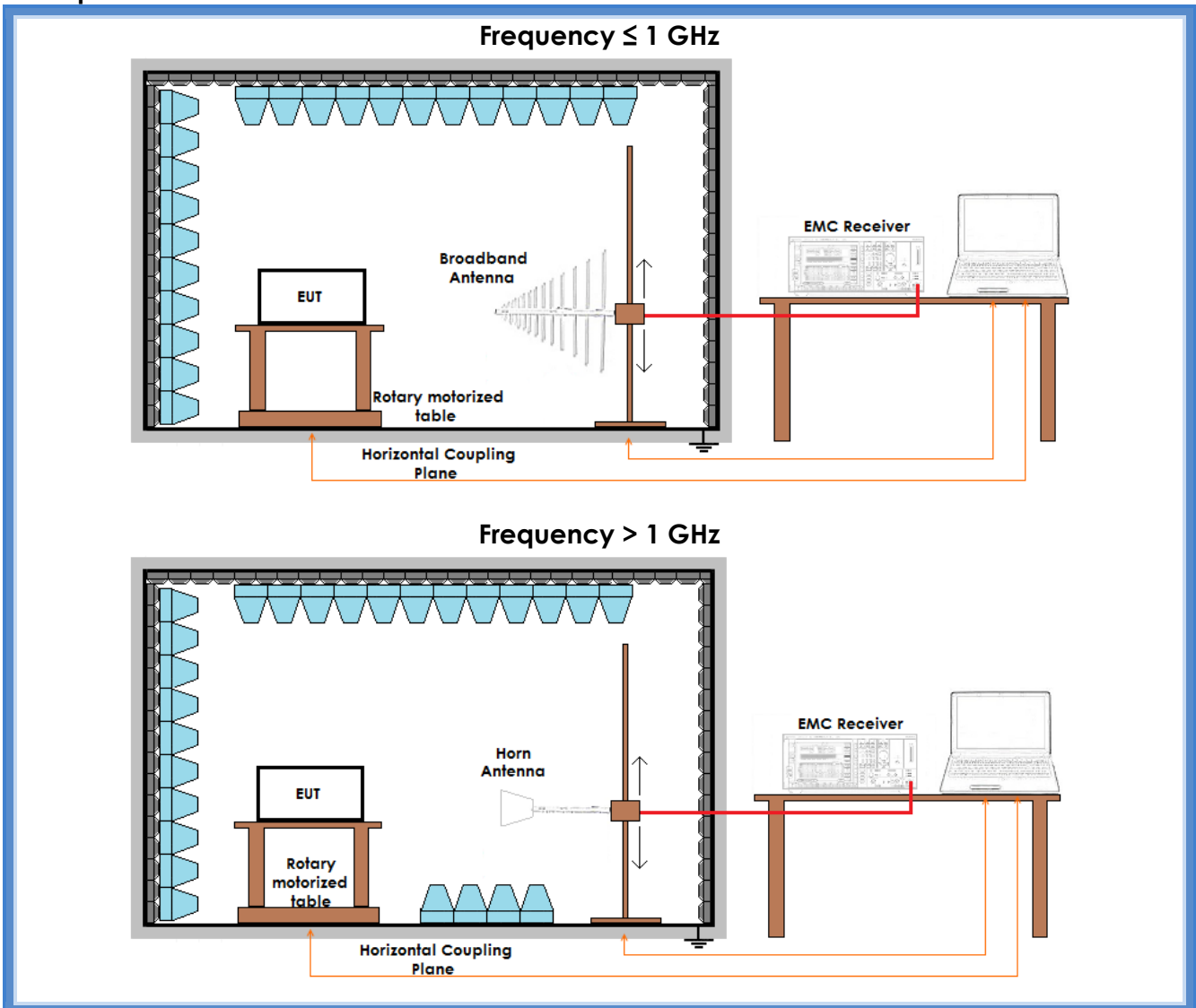
The restricted frequency bands are listed in the following table

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|---------------|
| 0,090 – 0,110 | 16,42 – 16,423 | 399,9 – 410 | 4,5 – 5,15 |
| 0,495 – 0,505 | 16,69475 – 16,69525 | 608 – 614 | 5,35 – 5,46 |
| 2,1735 – 2,1905 | 16,80425 – 16,80475 | 960 – 1240 | 7,25 – 7,75 |
| 4,125 – 4,128 | 25,5 – 25,67 | 1300 – 1427 | 8,025 – 8,5 |
| 4,17725 – 4,17775 | 37,5 – 38,25 | 1435 – 1626,5 | 9,0 – 9,2 |
| 4,20725 – 4,20775 | 73 – 74,6 | 1645,5 – 1646,5 | 9,3 – 9,5 |
| 6,215 – 6,218 | 74,8 – 75,2 | 1660 – 1710 | 10,6 – 12,7 |
| 6,26775 – 6,26825 | 108 – 121,94 | 1718,8 – 1722,2 | 13,25 – 13,4 |
| 6,31175 – 6,31225 | 123 – 138 | 2200 – 2300 | 14,47 – 14,5 |
| 8,291 – 8,294 | 149,9 – 150,05 | 2310 – 2390 | 15,35 – 16,2 |
| 8,362 – 8,366 | 156,52475 – 156,52525 | 2483,5 – 2500 | 17,7 – 21,4 |
| 8,37625 – 8,38675 | 156,7 – 156,9 | 2690 – 2900 | 22,01 – 23,12 |
| 8,41425 – 8,41475 | 162,0125 – 167,17 | 3260 – 3267 | 23,6 – 24,0 |
| 12,29 – 12,293 | 167,72 – 173,2 | 3332 – 3339 | 31,2 – 31,8 |
| 12,51975 – 12,52025 | 240 – 285 | 3345,8 – 3358 | 36,43 – 36,5 |
| 12,57675 – 12,57725 | 322 – 335,4 | 3600 – 4400 | Above 38,6 |
| 13,36 – 13,41 | | | |

Acceptance limits for emissions in non-restricted frequency bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Setup



Graphs:

G161957131, G161957132, G161957133,
 G161957134, G161957135 and G161957136



Result – AV detector

| Harmonic | Lowest channel | | Medium channel | | Highest channel | | Results |
|----------|-----------------------------|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|----------|
| | Level (dBµV/m) | Limits (dBµV/m) | Level (dBµV/m) | Limits (dBµV/m) | Level (dBµV/m) | Limits (dBµV/m) | |
| II | 50,16* | 54,00 | 51,41* | 54,00 | 49,00* | 54,00 | Complies |
| III | 44,69 | 54,00 | 47,26 | 54,00 | 44,86 | 54,00 | Complies |
| IV | 40,82 | 54,00 | 37,71 | 54,00 | 34,63 | 54,00 | Complies |
| V | 38,58 | 54,00 | 36,88 | 54,00 | 35,37 | 54,00 | Complies |
| VI | 41,17 | 54,00 | 42,35* | 54,00 | 41,25* | 54,00 | Complies |
| VII | 41,46* | 54,00 | 46,83* | 54,00 | 45,21* | 54,00 | Complies |
| VIII | 42,82* | 54,00 | 44,84 | 54,00 | More than 20 dB below limit | 54,00 | Complies |
| IX | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 | Complies |
| X | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 | Complies |

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered 54 dBµV/m as worst case.

Result – Peak detector

| Harmonic | Lowest channel | | Medium channel | | Highest channel | | Results |
|----------|-----------------------------|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|----------|
| | Level (dBµV/m) | Limits (dBµV/m) | Level (dBµV/m) | Limits (dBµV/m) | Level (dBµV/m) | Limits (dBµV/m) | |
| II | 54,49* | 74,00 | 54,50* | 74,00 | 52,85* | 74,00 | Complies |
| III | 55,59 | 74,00 | 56,16 | 74,00 | 54,54 | 74,00 | Complies |
| IV | 53,03 | 74,00 | 50,96 | 74,00 | 47,96 | 74,00 | Complies |
| V | 51,17 | 74,00 | 47,74 | 74,00 | 48,26 | 74,00 | Complies |
| VI | 51,07 | 74,00 | 51,60* | 74,00 | 50,87* | 74,00 | Complies |
| VII | 51,70* | 74,00 | 51,38* | 74,00 | 52,54* | 74,00 | Complies |
| VIII | 53,46* | 74,00 | 53,71 | 74,00 | More than 20 dB below limit | 74,00 | Complies |
| IX | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 | Complies |
| X | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 | Complies |

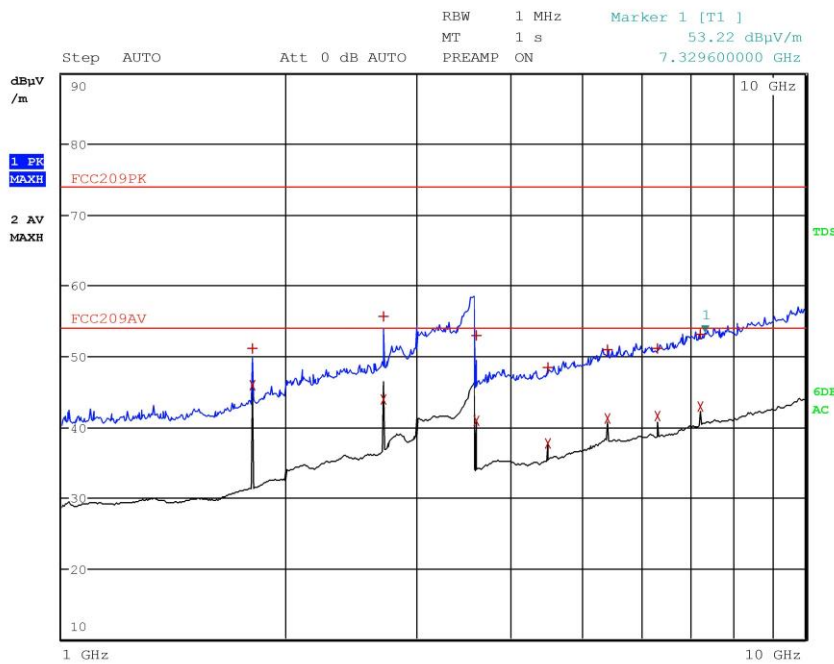
Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered 74 dBµV/m as worst case.



Graphs

G161957131

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957131
Test Spec





Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957131
Test Spec

Final Measurement

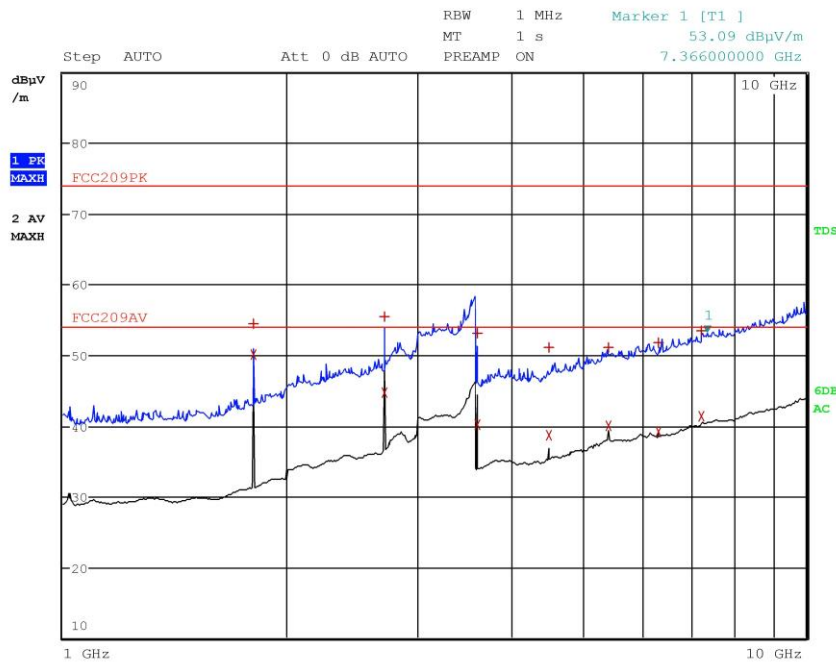
Meas Time: 1 s
 Margin: 6 dB
 Subranges: 14

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 1 | 1.804800000 GHz | 51.15 | Max Peak | -22.83 |
| 2 | 1.804800000 GHz | 45.83 | Average | -8.15 |
| 1 | 2.707600000 GHz | 55.59 | Max Peak | -18.39 |
| 2 | 2.707600000 GHz | 43.79 | Average | -10.19 |
| 1 | 3.610000000 GHz | 53.01 | Max Peak | -20.97 |
| 2 | 3.610000000 GHz | 40.82 | Average | -13.16 |
| 1 | 4.511600000 GHz | 48.34 | Max Peak | -25.64 |
| 2 | 4.512000000 GHz | 37.72 | Average | -16.26 |
| 1 | 5.409600000 GHz | 50.90 | Max Peak | -23.08 |
| 2 | 5.414400000 GHz | 41.17 | Average | -12.81 |
| 2 | 6.316800000 GHz | 41.46 | Average | -12.52 |
| 1 | 6.338000000 GHz | 51.16 | Max Peak | -22.82 |
| 2 | 7.219200000 GHz | 42.82 | Average | -11.16 |
| 1 | 7.229200000 GHz | 53.07 | Max Peak | -20.91 |



G161957132

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957132
Test Spec



CMC Centro Misure Compatibilità S.r.l.



Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957132
Test Spec

Final Measurement

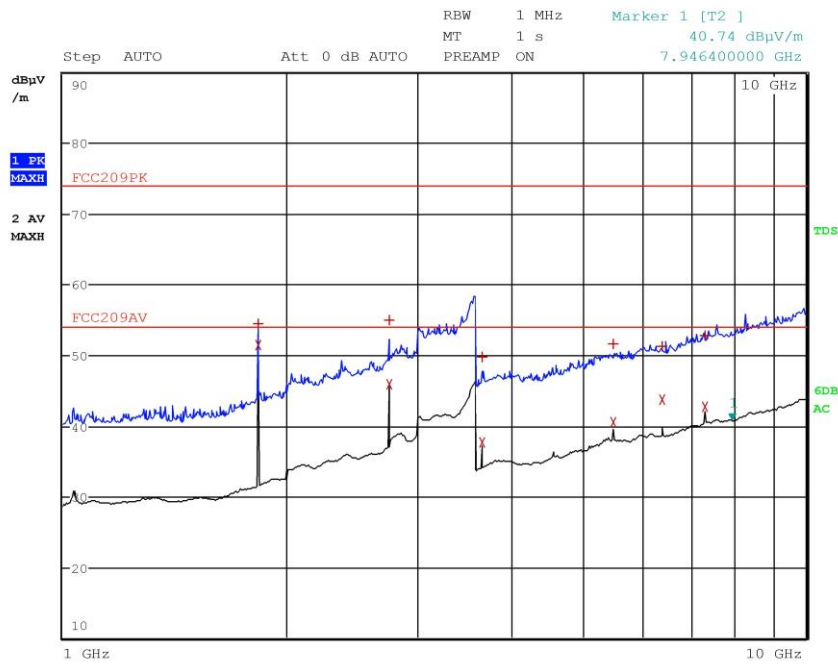
Meas Time: 1 s
 Margin: 6 dB
 Subranges: 14

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 1 | 1.804800000 GHz | 54.49 | Max Peak | -19.49 |
| 2 | 1.804800000 GHz | 50.16 | Average | -3.82 |
| 1 | 2.707600000 GHz | 55.44 | Max Peak | -18.54 |
| 2 | 2.707600000 GHz | 44.69 | Average | -9.29 |
| 1 | 3.610000000 GHz | 53.03 | Max Peak | -20.95 |
| 2 | 3.610000000 GHz | 40.09 | Average | -13.89 |
| 1 | 4.511600000 GHz | 51.17 | Max Peak | -22.81 |
| 2 | 4.512000000 GHz | 38.58 | Average | -15.40 |
| 1 | 5.409600000 GHz | 51.07 | Max Peak | -22.91 |
| 2 | 5.414400000 GHz | 40.06 | Average | -13.92 |
| 2 | 6.316800000 GHz | 39.23 | Average | -14.75 |
| 1 | 6.338000000 GHz | 51.70 | Max Peak | -22.28 |
| 2 | 7.219200000 GHz | 41.32 | Average | -12.66 |
| 1 | 7.229200000 GHz | 53.46 | Max Peak | -20.52 |



G161957133

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957133
Test Spec



CMC Centro Misure Compatibilità S.r.l.



Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957133
Test Spec

Final Measurement

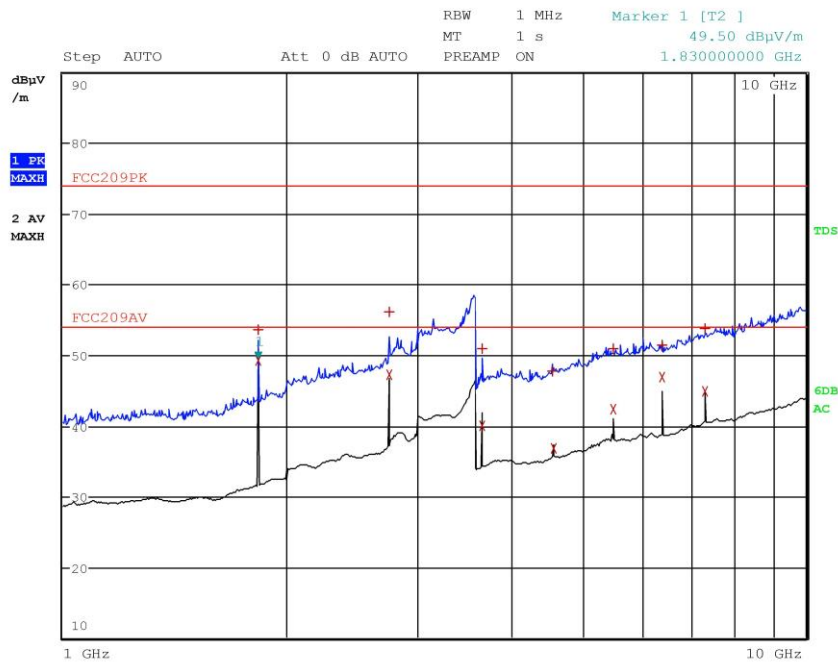
Meas Time: 1 s
 Margin: 6 dB
 Subranges: 12

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 1 | 1.830000000 GHz | 54.50 | Max Peak | -19.48 |
| 2 | 1.830000000 GHz | 51.41 | Average | -2.57 |
| 1 | 2.745200000 GHz | 54.90 | Max Peak | -19.08 |
| 2 | 2.745200000 GHz | 45.80 | Average | -8.18 |
| 1 | 3.660000000 GHz | 49.69 | Max Peak | -24.29 |
| 2 | 3.660000000 GHz | 37.71 | Average | -16.27 |
| 2 | 5.490000000 GHz | 40.54 | Average | -13.44 |
| 1 | 5.510000000 GHz | 51.60 | Max Peak | -22.38 |
| 1 | 6.388400000 GHz | 51.34 | Max Peak | -22.64 |
| 2 | 6.405200000 GHz | 43.66 | Average | -10.32 |
| 1 | 7.319600000 GHz | 52.77 | Max Peak | -21.21 |
| 2 | 7.320000000 GHz | 42.68 | Average | -11.30 |



G161957134

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957134
Test Spec



CMC Centro Misure Compatibilità S.r.l.



Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957134
Test Spec

Final Measurement

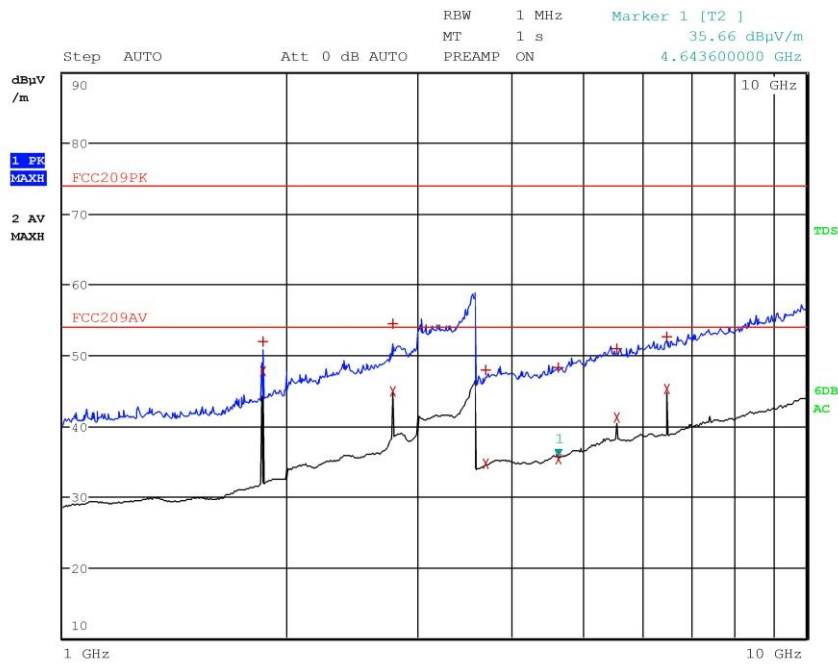
Meas Time: 1 s
 Margin: 6 dB
 Subranges: 14

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 2 | 1.830000000 GHz | 49.17 | Average | -4.81 |
| 1 | 1.830000000 GHz | 53.60 | Max Peak | -20.38 |
| 2 | 2.745200000 GHz | 47.26 | Average | -6.72 |
| 1 | 2.745200000 GHz | 56.16 | Max Peak | -17.82 |
| 1 | 3.659600000 GHz | 50.96 | Max Peak | -23.02 |
| 2 | 3.660000000 GHz | 39.96 | Average | -14.02 |
| 1 | 4.559600000 GHz | 47.74 | Max Peak | -26.24 |
| 2 | 4.574800000 GHz | 36.88 | Average | -17.10 |
| 2 | 5.490000000 GHz | 42.35 | Average | -11.63 |
| 1 | 5.490400000 GHz | 50.99 | Max Peak | -22.99 |
| 1 | 6.404800000 GHz | 51.38 | Max Peak | -22.60 |
| 2 | 6.405200000 GHz | 46.83 | Average | -7.15 |
| 1 | 7.320000000 GHz | 53.71 | Max Peak | -20.27 |
| 2 | 7.320000000 GHz | 44.84 | Average | -9.14 |



G161957135

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957135
Test Spec



CMC Centro Misure Compatibilità S.r.l.



Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957135
Test Spec

Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 12

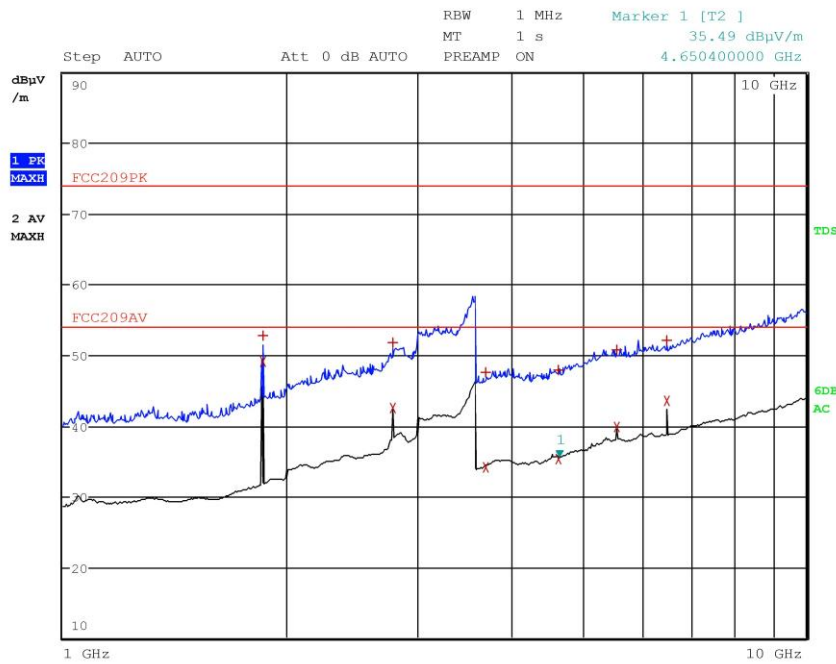
| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 1 | 1.855200000 GHz | 51.90 | Max Peak | -22.08 |
| 2 | 1.855200000 GHz | 47.78 | Average | -6.20 |
| 1 | 2.782800000 GHz | 54.54 | Max Peak | -19.44 |
| 2 | 2.782800000 GHz | 44.86 | Average | -9.12 |
| 1 | 3.704000000 GHz | 47.96 | Max Peak | -26.02 |
| 2 | 3.710400000 GHz | 34.63 | Average | -19.35 |
| 1 | 4.635600000 GHz | 48.26 | Max Peak | -25.72 |
| 2 | 4.643600000 GHz | 35.37 | Average | -18.61 |
| 1 | 5.565600000 GHz | 50.87 | Max Peak | -23.11 |
| 2 | 5.565600000 GHz | 41.25 | Average | -12.73 |
| 1 | 6.493200000 GHz | 52.54 | Max Peak | -21.44 |
| 2 | 6.493200000 GHz | 45.21 | Average | -8.77 |

CMC Centro Misure Compatibilità S.r.l.



G161957136

Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957136
Test Spec



CMC Centro Misure Compatibilità S.r.l.



Meas Type Emission 3m
Equipment under Test
Manufacturer
OP Condition
Operator Bertezolo 161957136
Test Spec

Final Measurement

Meas Time: 1 s
 Margin: 6 dB
 Subranges: 12

| Trace | Frequency | Level (dBµV/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------|----------|----------------|
| 1 | 1.855200000 GHz | 52.85 | Max Peak | -21.13 |
| 2 | 1.855200000 GHz | 49.00 | Average | -4.98 |
| 1 | 2.782800000 GHz | 51.70 | Max Peak | -22.28 |
| 2 | 2.782800000 GHz | 42.49 | Average | -11.49 |
| 1 | 3.704000000 GHz | 47.63 | Max Peak | -26.35 |
| 2 | 3.710400000 GHz | 34.04 | Average | -19.94 |
| 1 | 4.635600000 GHz | 47.92 | Max Peak | -26.06 |
| 2 | 4.643600000 GHz | 35.37 | Average | -18.61 |
| 1 | 5.565600000 GHz | 50.80 | Max Peak | -23.18 |
| 2 | 5.565600000 GHz | 39.79 | Average | -14.19 |
| 1 | 6.493200000 GHz | 52.15 | Max Peak | -21.83 |
| 2 | 6.493200000 GHz | 43.47 | Average | -10.51 |

Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.11 Maximum permissible exposure

Test set-up and execution

- FCC Rules and Regulation;
Titles 47 Part 1.1310
- Internal procedure PM001
- See clause 4 of this test report

Test configuration

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Antenna

Acceptance limits

1 mW/cm² max at 20 cm of distance

Result

| Power Density Limit (mW/cm ²) | Maximum Output Power (mW) | Antenna Gain (G) | Power Density at 20 cm (mW/cm ²) | Remarks |
|---|---------------------------|------------------|--|----------|
| 1,00 | 38,37 | 2,15 dBi | 0,016 | Measured |

Remarks: Power Density = $(P \times G) / (4\pi R^2)$

Result: The requirements are met