Independent Testing Laboratory
CMC Centro Misure Compatibilità S.r.l.
Via dell'Elettronica, 12/C
36016 Thiene (VI) – ITALY
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TEST REPORT nr. R13203501
Federal Communication Commission (FCC)
Industry Canada (IC)

Test item

Description .....: Transceiver unit
Trademark .....: AUTEC
Model/Type .....: Model: AJS
Type: DA0BM

Test Specification

Standard .....: FCC Rules & Regulations, Title 47:2013
Part 15 paragraph(s): 203, 204, 207, 209 and 249
RSS-210 (2010)

Client's name .....: AUTEC S.r.l.
Address .....: Via Pomaroli, 65 – 36030 Caldogno (VI) – ITALY

Manufacturer's name : Same as client
Address .....: --

Report

Tested by .....: G. Gandini – *Technician*
Approved by .....: R. Beghetto – *Laboratory Manager*
Date of issue .....: 02.04.14
Contents .....: 49 pages

This test report shall not be reproduced except in full without the written approval of CMC.
The test results presented in this report relate only to the item tested.

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Index

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1. Summary

Standard:

FCC Rules & Regulations, Title 47:2013
Part 15 paragraph(s): 203, 204, 207, 209 and 249
RSS-210 (2010) – Annex 2 (A2.9)

Test specifications	*Environmental Phenomena*	*Tests sequence*	*Result*
Part 15.203 IC – RSS-210	Antenna requirements	1	Complies
Part 15.207 IC – RSS-210 – Annex 2 (A2.9)	Conducted emissions	--	N.A. (+)
Part 15.209 IC – RSS-210 – Annex 2 (A2.9)	Radiated emissions	2	Complies
IC – RSS-210 – Annex 2 (A2.9)	Occupied bandwidth (99% BW)	3	Complies
Part 15.209 and 15.249 IC – RSS-210 – Annex 2 (A2.9)	Peak Output Power	4	Complies
Part 15.249 (d) IC – RSS-210 – Annex 2 (A2.9)	Band edge	5	Complies
Part 15.209 IC – RSS-210 – Annex 2 (A2.9)	Spurious emission	6	Complies

(+) Devices which only employ battery power. See FCC Part 15.207 (c)

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification

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2. Description of Equipment under test (EUT)

Power supply	:	7,2Vdc
Serial Number	:	--
Type of equipment	:	☑ Transmitter Unit
		☑ Receiver Unit
Type of station	:	❑ Fixed station
		☑ Portable station
		❑ Mobile station
Nominal frequency	:	902 – 928 MHz
FCC ID	:	OQA-AJSDA0BM
IC number	:	9061A-AJSDA0BM

2.1 Test Site

Company	:	CMC Centro Misure Compatibilità S.r.l.
Address	:	Via dell'Elettronica, 12/C
		36016 Thiene (VI) – ITALY

3. Testing and sampling

Date of receipt of test item	:	18.11.13
Testing start date	:	21.01.14
Testing end date	:	27.01.14
Samples tested nr.	:	1
Sampling procedure.	:	Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion
Internal identification	:	adhesive label with the product number P131155

4. Operative conditions

EUT exercising	:	EUT in continuous transmission at maximum power

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5. Photograph(s) of EUT

5.1 Photograph(s) of EUT

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6. Equipment list

Id. number	*Manufacturer*	*Model*	*Description*	*Serial number*	*Last calibration*	*Due date calibration*
CMC S010	Rohde & Schwarz	ESH3-Z2	Impulses Limiting Device	- - -	January '14	January '15
CMC S108	EMCO	3115	Horn Antenna	9811-5622	May '13	May '16
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	January '13	January '16
CMC S136	Schwarzbeck	VULB 9163	Broadband Antenna	9136-205	May '13	May '16
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '14	January '15
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '14	January '15
CMC S227	Rohde & Schwarz	ESR7	EMI Test Receiver 7GHz	101121	January '14	January '15

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7. Measurement uncertainty

Test	Expanded Uncertainty	note
Conducted Emission		
(50Ω/50µH AMN) - (9 kHz – 150 kHz)	±3.8 dB	1
(50Ω/50µH AMN) - (150 kHz – 30 MHz)	±3.3 dB	1
(Voltage probe) - (150 kHz – 30 MHz)	±3.3 dB	1
(50Ω/5µH AMN) - (150 kHz – 108 MHz)	±2.8 dB	1
DiscontinuousConducted Emission		
Conducted Emission (50Ω/50µH AMN) - (150 kHz – 30 MHz)	±3.3 dB	1
Disturbance Power (30 MHz – 300 MHz)	±3.9 dB	1
Radiated Emission		
(0,150 MHz – 30 MHz)	±4.3 dB	1
(30 MHz – 1000 MHz)	±4.4 dB	1
(1 GHz – 6 GHz)	±4.6 dB	1
Electromagnetic field EMF	±15.0 %	1
Harmonic current emissions test	±2.7 %	1
Voltage fluctuation and flicker test	±2.9 %	1
Insertion loss test	±2.7 dB	1
Radiated electromagnetic disturbance test (loop antenna)	±2.7 dB	1
Radiated electromagnetic field immunity test	0.77 V/m at 3V/m	1
Pulse modulated radiated electromagnetic field immunity test	0.77 V/m at 3V/m	1
Injected currents immunity test	0.48 V at 3V	1
Bulk current	5.3 mA at 60 mA	1
Power frequency magnetic field immunity test	0.1 A/m at 10 A/m	1
Effective radiated power (F < 1GHz)	±4.4 dB	1
Effective radiated power (F > 1GHz)	±3.9 dB	1
Frequency error	< 1x10-7	1
Modulation bandwidth	< 1x10-7	1
Adjacent channel power	±2.6 dB	1
Blocking	±2.6 dB	1
Electrostatic discharge immunity test		2
Electrical fast transients / burst immunity test		2
Surge immunity test		2
Pulse magnetic field immunity test		2
Damped oscillatory magnetic field immunity test		2
Short interruption immunity test		2
Voltage transient emission test	±2.2 %	1
Transient immunity test		2

Notes

Note 1:
The expanded uncertainty reported according to EN55016-4-2:2011 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p = 95%

Note 2:

It has been demostrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor k = 2.

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8. Reference documents

Reference no.	*Description*
FCC Rules and Regulation Title 47 part 15:2013	--
RSS-210 Issue 8 – December 2010	Low-power licence-exempt radiocommunication devices (all frequency bands): Category I Equipment
ANSI C63.4: 2003	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
Internal Procedure PM001 rev. 2.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 8.2 (Quality Manual)	Measurement uncertainty calculation

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9. Deviation from test specification

In agreement with the client, emission tests were performed with peak detector.

At the frequencies where the measures exceed the limit or within 6 dB from it, the test was repeated with quasi-peak detector and/or average detector.

10. Test case verdicts

Test case does not apply to the test object ..... : N.A.
Test item does meet the requirement ..... : Complies
Test item does not meet the requirement ..... : Does not comply
Test not performed ..... : N.E.

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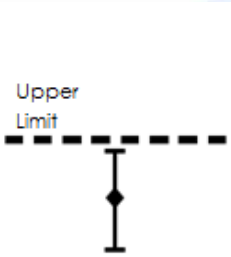
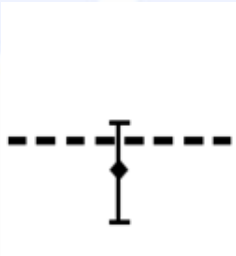
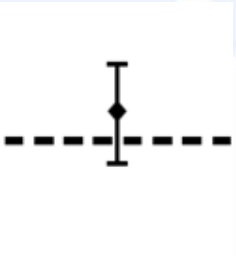
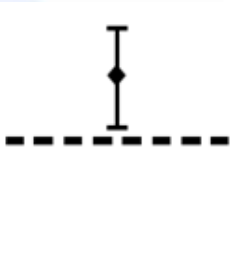
11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 8.2.

Judgement of compliance:

Case 1	Case 2	Case 3	Case 4
			
The sample is Complies.	The sample is Complies.	The sample is Not Complies.	The sample is Not Complies.
The measurement results is within the specification limit when the measurement uncertainty is taken into account.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit.	It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty also the measurement result is upper the limit.	The measurement results is outside the specification limit when the measurement uncertainty is taken into account.

In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.

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11.1 Antenna requirements

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203 and 15.204
- RSS-210
- 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

--
Measurement uncertainty: See clause 7 of this test report

Test specification

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded

Environmental conditions

Temperature (°C)	*Atmospheric pressure (kPa)*	*Relative humidity (%)*
22	98	48

Result

Antenna Type	*External R.F. power amplifier*	*Gain*	*Remarks*	*Results*
Embedded	Not Present	0 dBi	--	Complies

Result: The requirements are met

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11.2 Radiated emissions

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209
- RSS-210
- 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 S127, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Frequency range: 0,009 MHz – 1000 MHz
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m

Environmental conditions

Temperature (°C)	*Atmospheric pressure (kPa)*	*Relative humidity (%)*
22	98	50

Acceptance limits

Frequency range (MHz)	*Limits [dB(µV/m)]*
0,009 to 0,490	128,51 to 93,80
0,490 to 1,705	73,80 to 62,97
1,705 to 30	69,54
30 to 88	40
88 to 216	43,52
216 to 960	46,02
Above 960	53,98
Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.	

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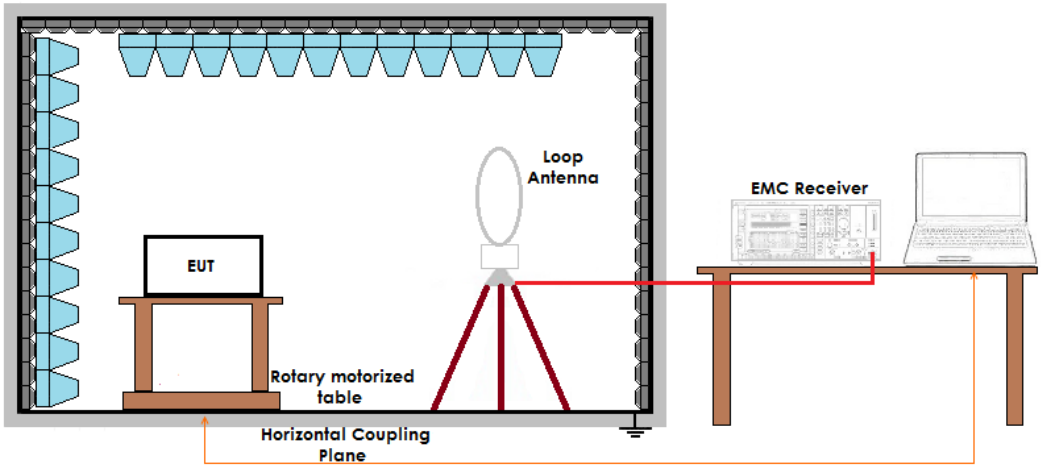
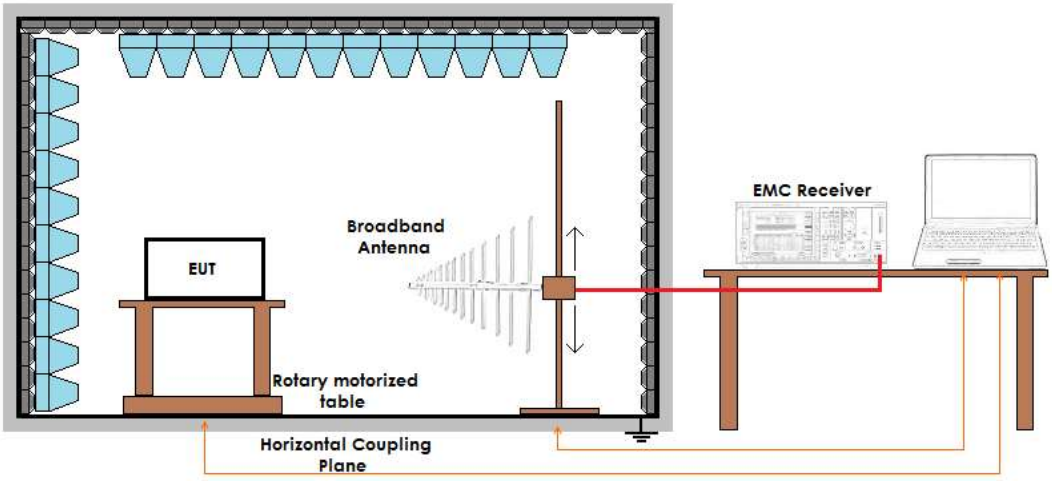
Setup

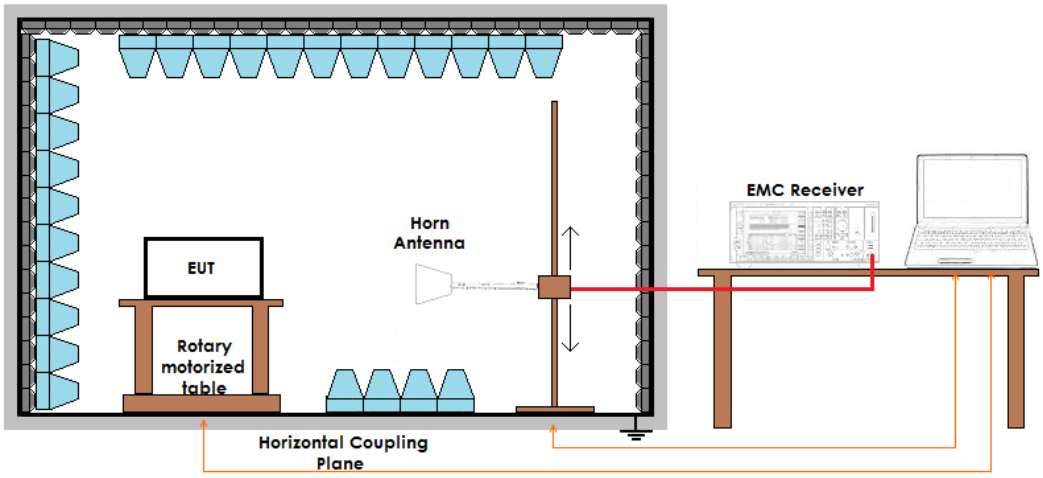
Frequency ≤ 30 MHz



Frequency ≤ 1 GHz



Frequency > 1 GHz



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Result

Channel	*Polarization*	*Frequency Range (MHz)*	*Graphs*	*Remarks*	*Result*
--	Loop	0,009 – 30	G13203509	--	Complies
915,050	H	30 – 1000	G13203515	--	Complies
915,050	V	30 – 1000	G13203519	--	Complies
921,000	H	30 – 1000	G13203501	--	Complies
921,000	V	30 – 1000	G13203505	--	Complies
927,750	H	30 – 1000	G13203531	--	Complies
927,750	V	30 – 1000	G13203524	--	Complies
915,050	H	1000 – 10000	G13203544	--	Complies
915,050	V	1000 – 10000	G13203543	--	Complies
921,000	H	1000 – 10000	G13203535	--	Complies
921,000	V	1000 – 10000	G13203536	--	Complies
927,750	H	1000 – 10000	G13203545	--	Complies
927,750	V	1000 – 10000	G13203546	--	Complies
Remarks: --					

Graphs Legend
PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +
AV: Average; AV [1s] (average at 1 second) values are marked with a x

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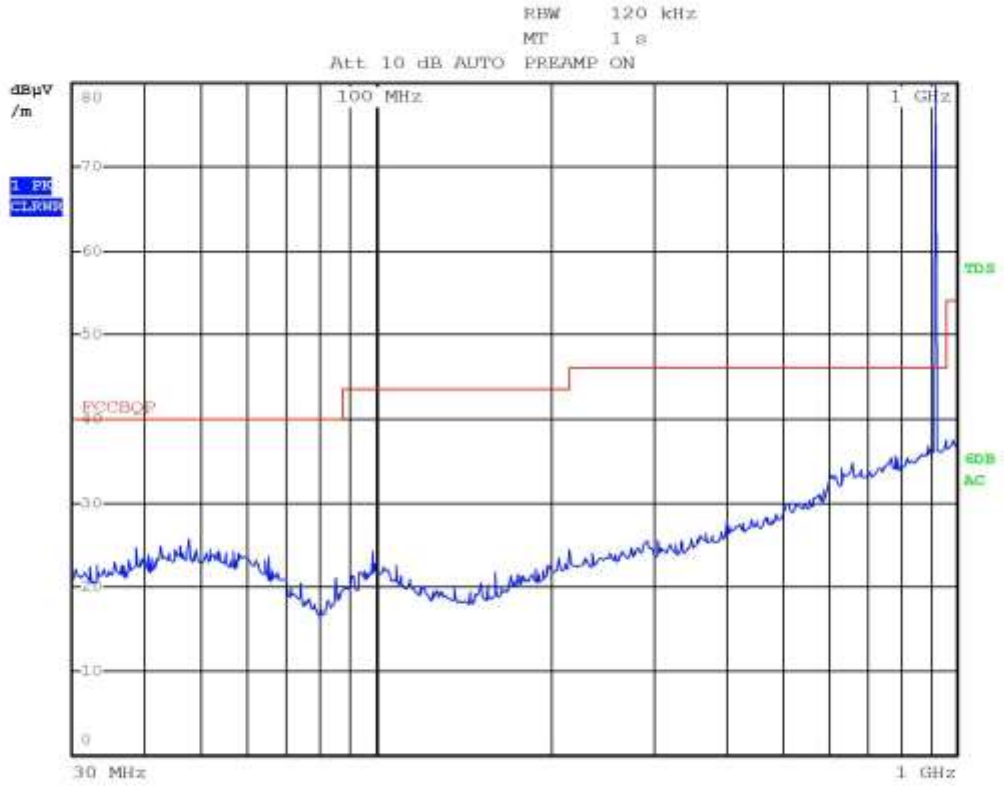
Graphs

G13203501



Bertezzolo 13203501 HORIZ - Fmed TX

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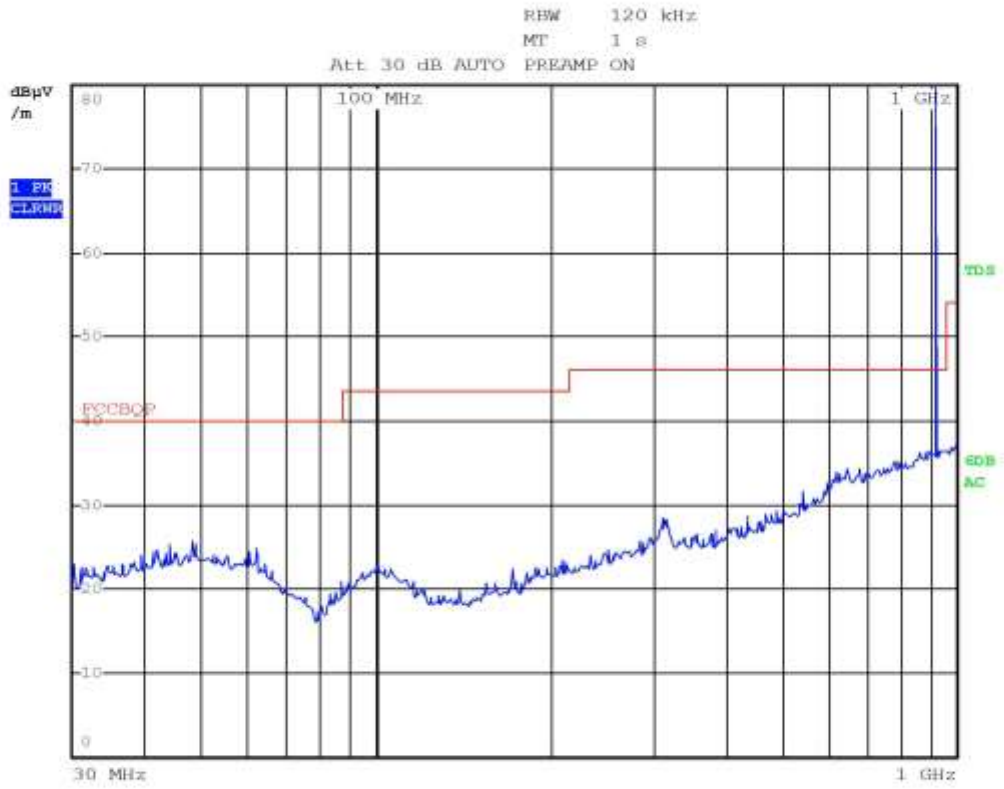
G13203505



Bertezzolo 13203505 VERT - Fmed TX

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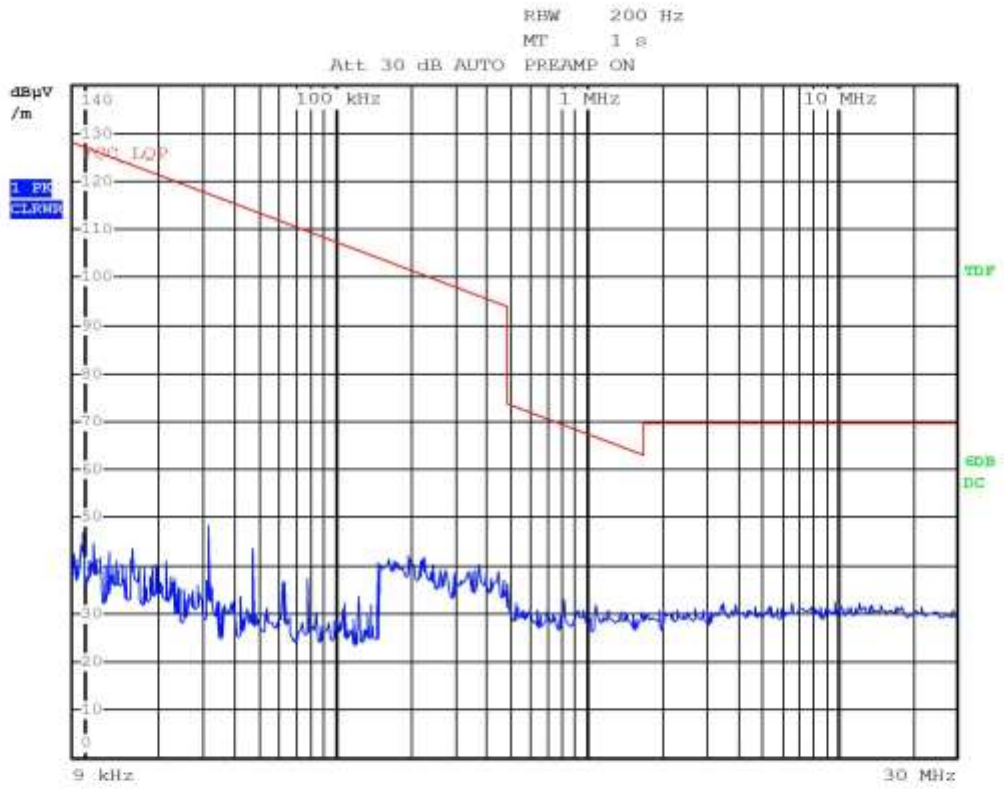
G13203509



Bertezzolo 13203509 LOOP - Fmed TX

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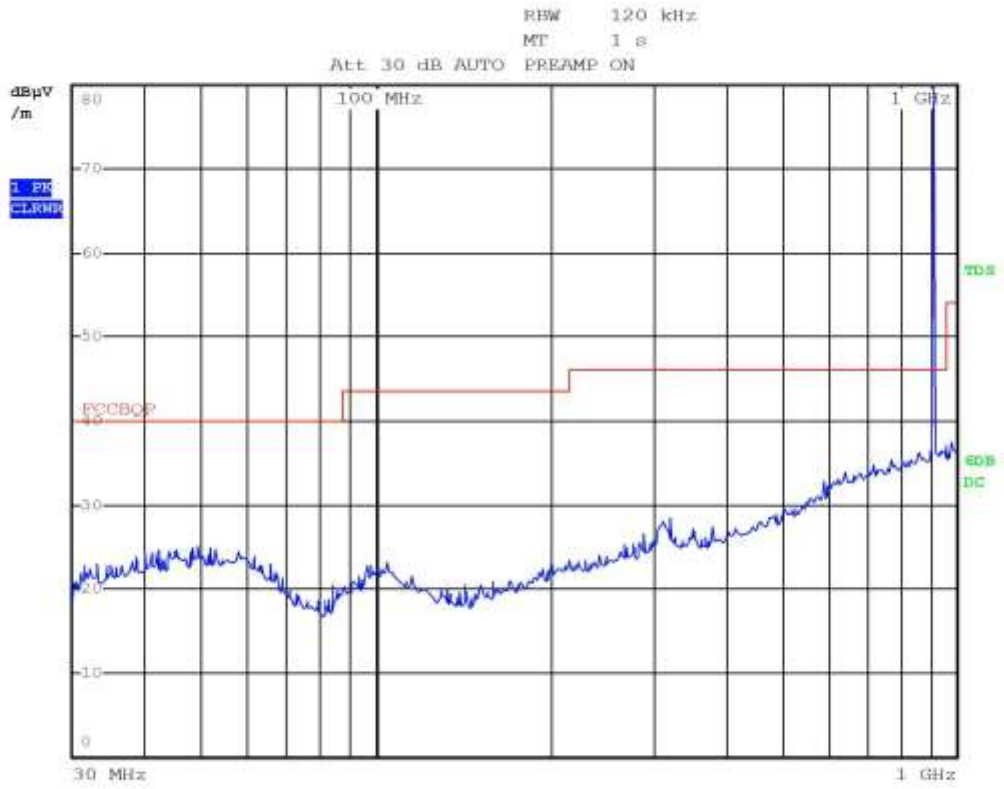
G13203515



Bertezzolo 13203515 HORIZ - Fmin TX

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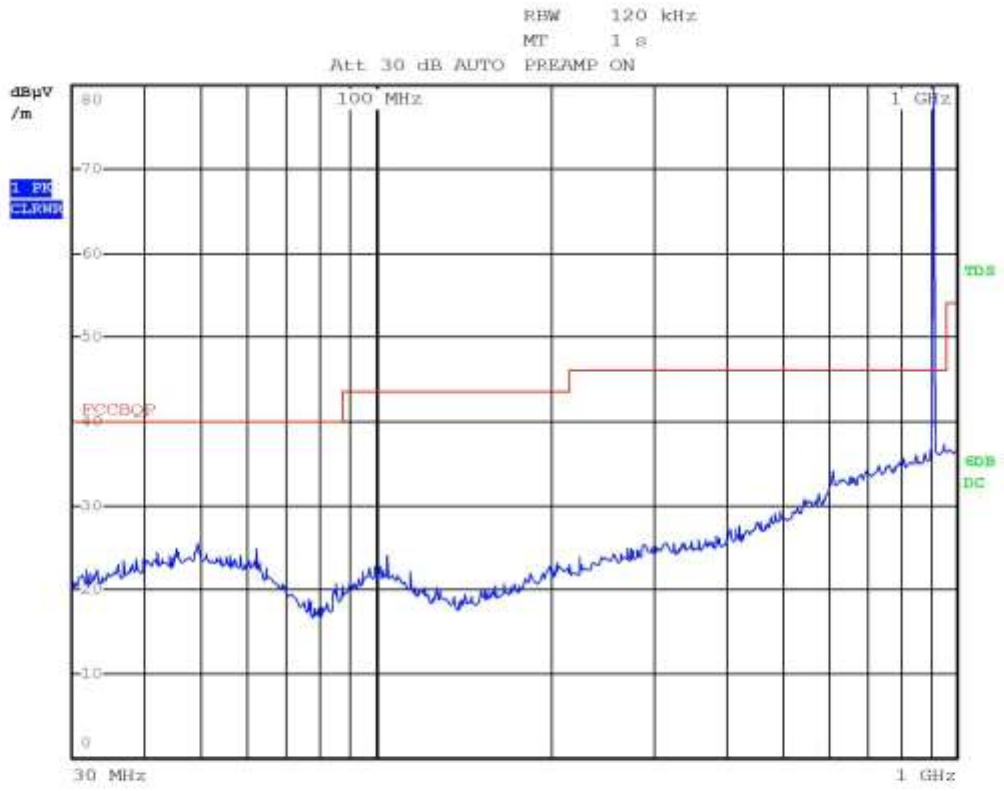
G13203519



Bertezzolo 13203519 VERT - Fmin TX

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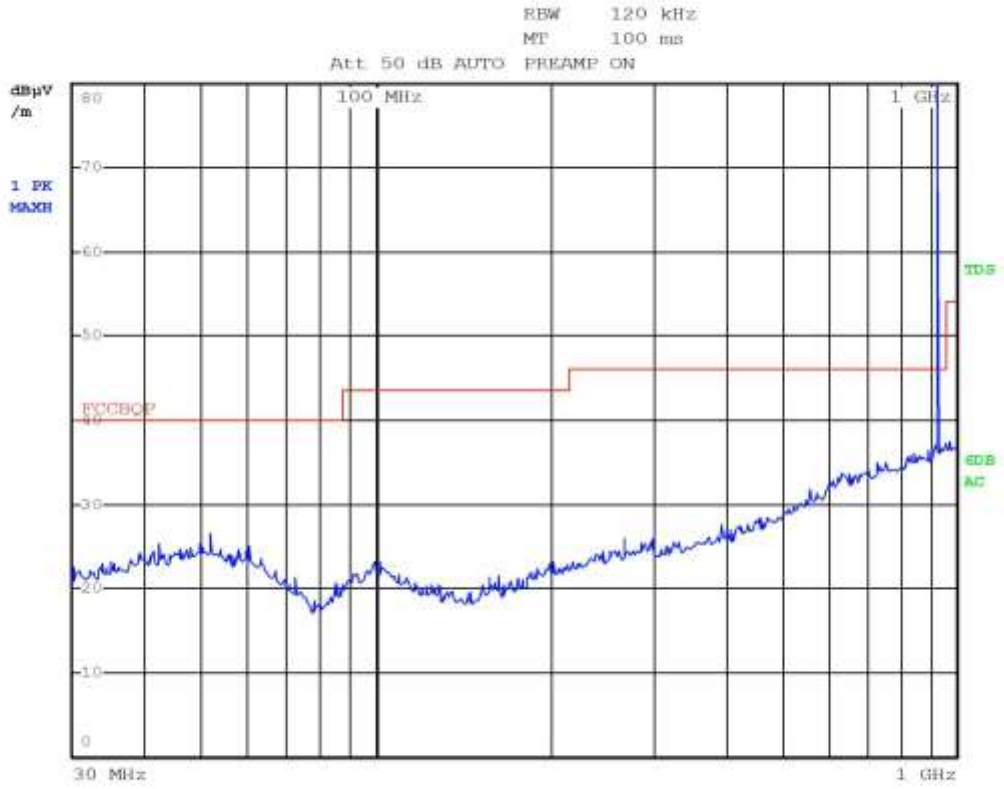
G13203524



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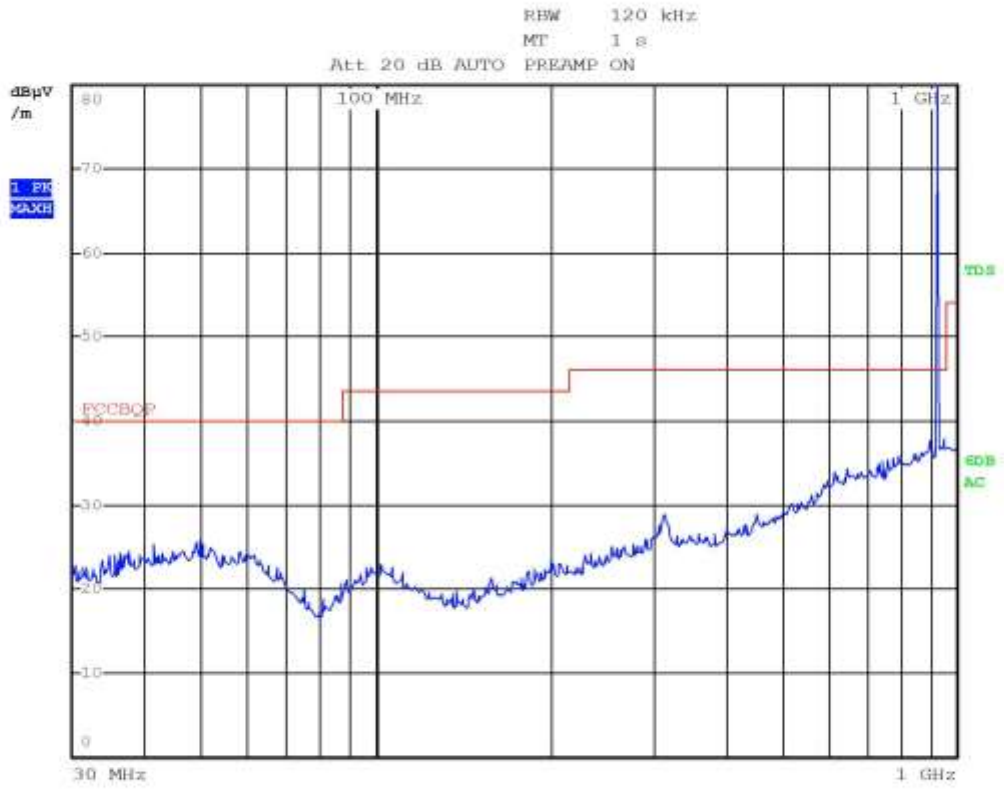
G13203531



Bertezzolo 13203531 HORIZ - Fmax TX

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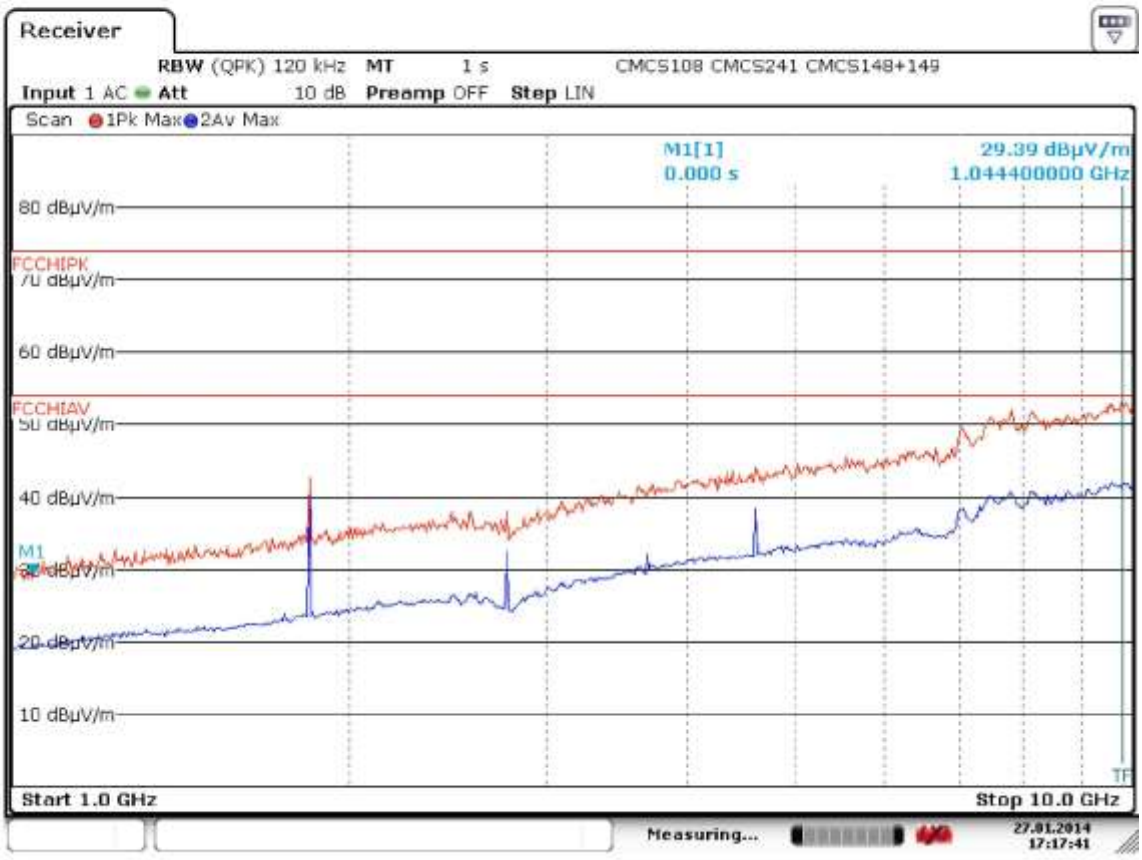
G13203535



Bertezzolo 13203535 HORIZ - Fmed TX

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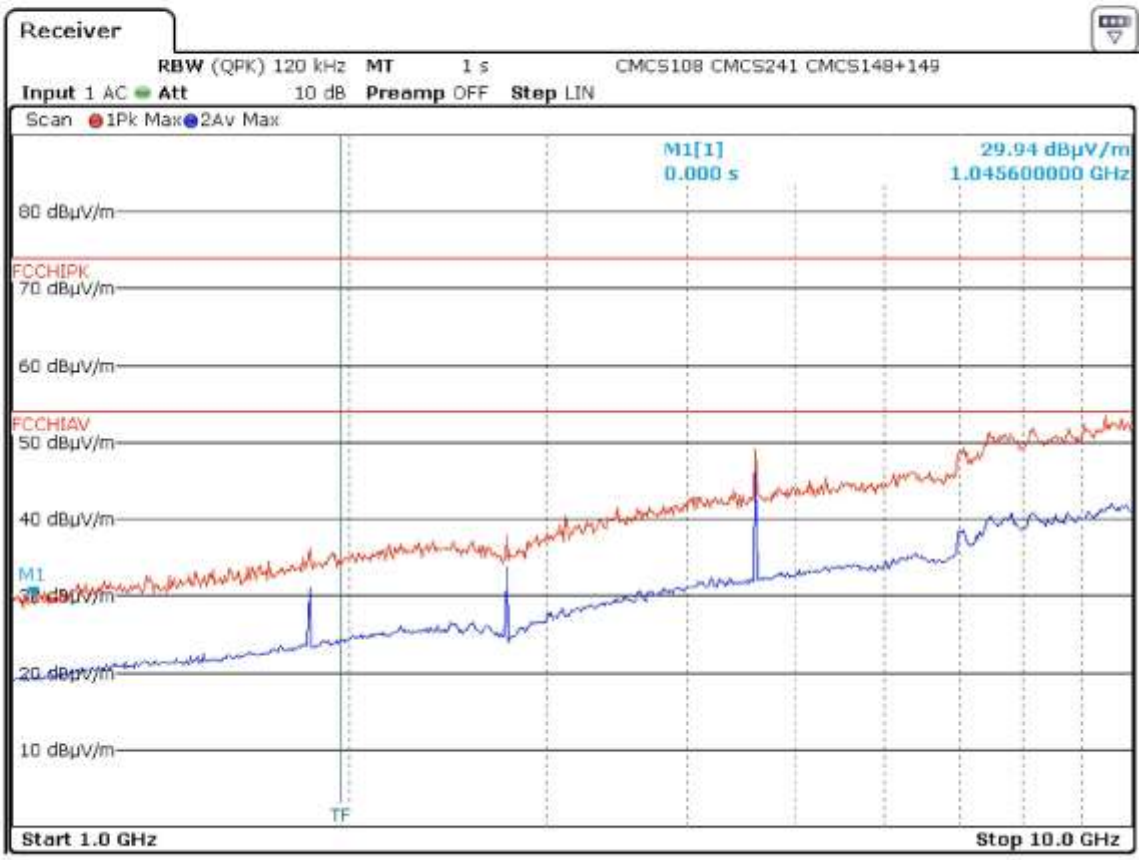
G13203536



Bertezzolo 13203536 VERT - Fmed TX

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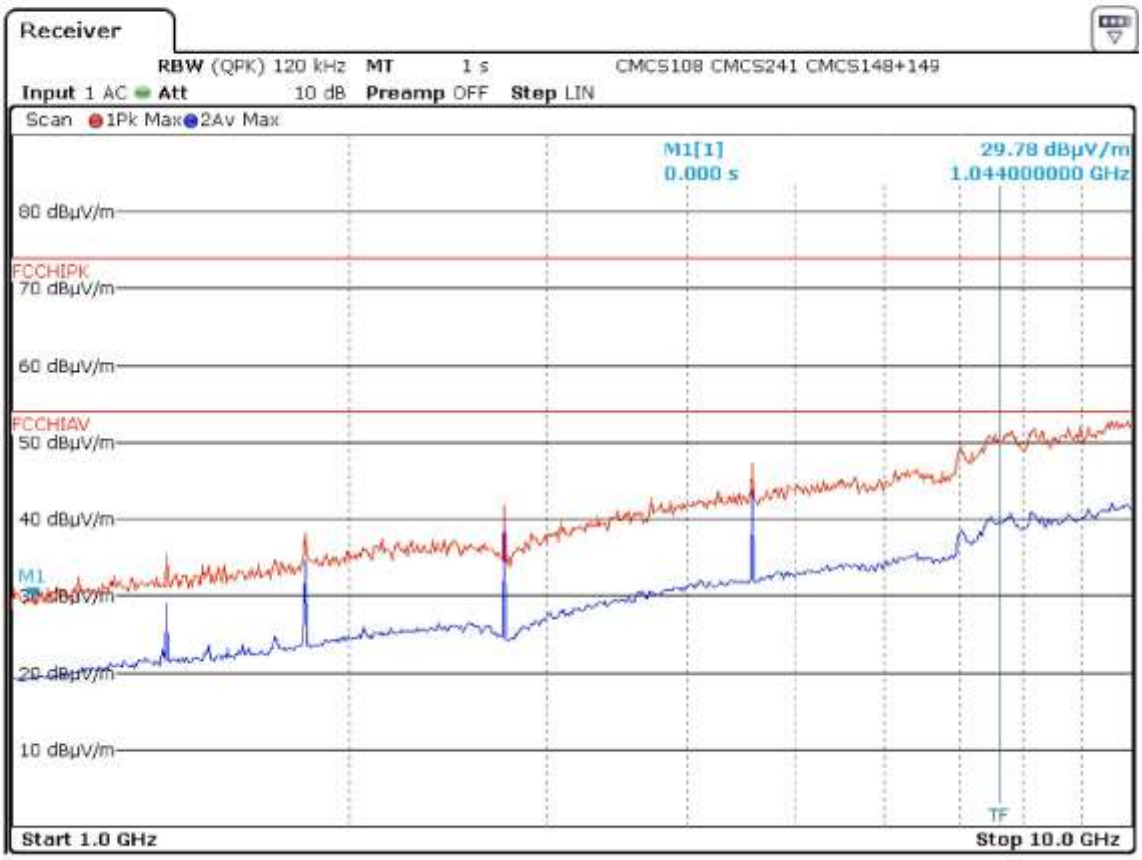
G13203543



Bertezzolo 13203543 VERT - Fmin TX

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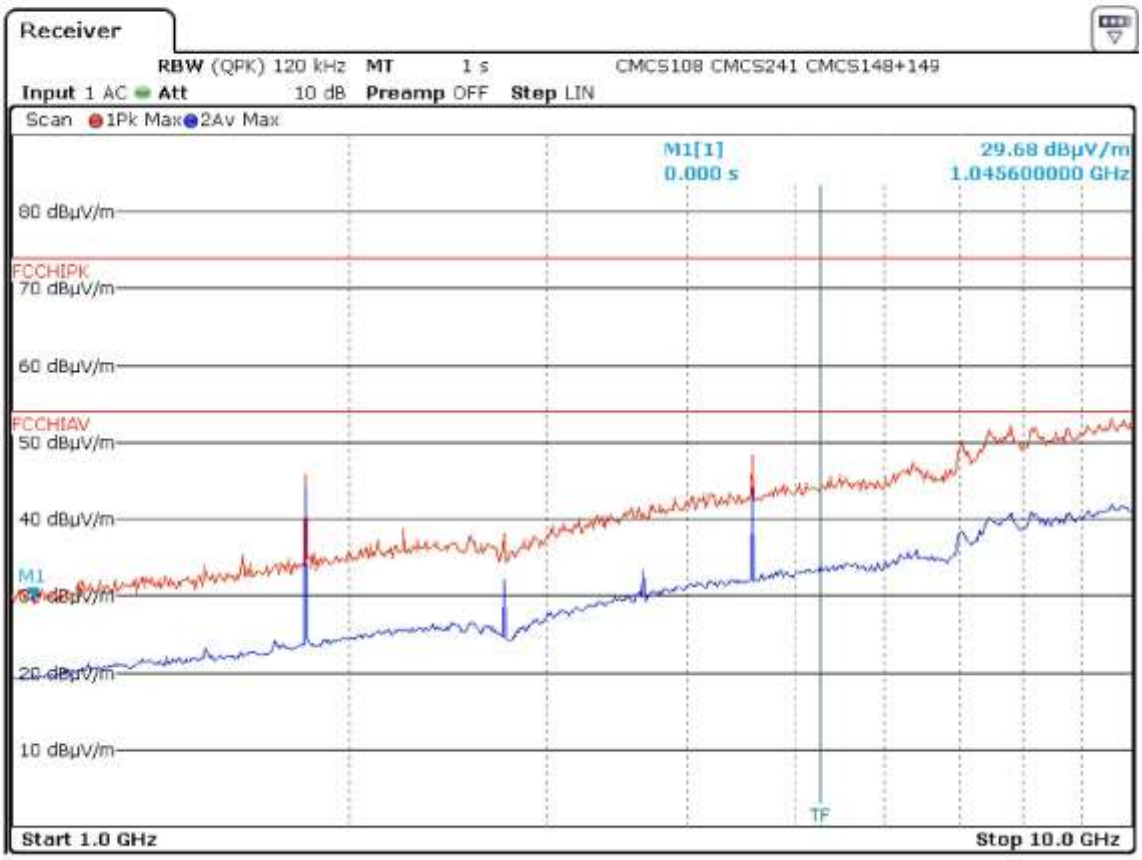
G13203544



Bertezzolo 13203544 HORIZ - Fmin TX

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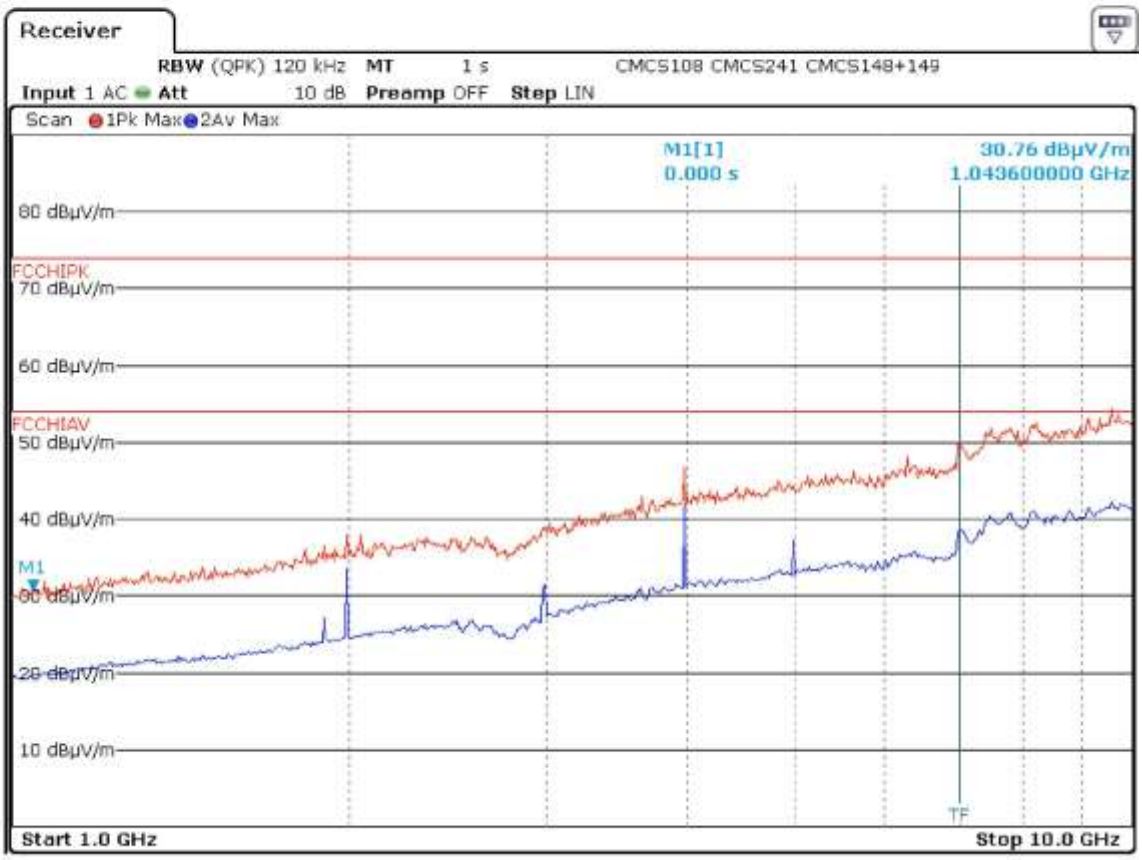
G13203545



Bertezzolo 13203545 HORIZ - Fmax TX

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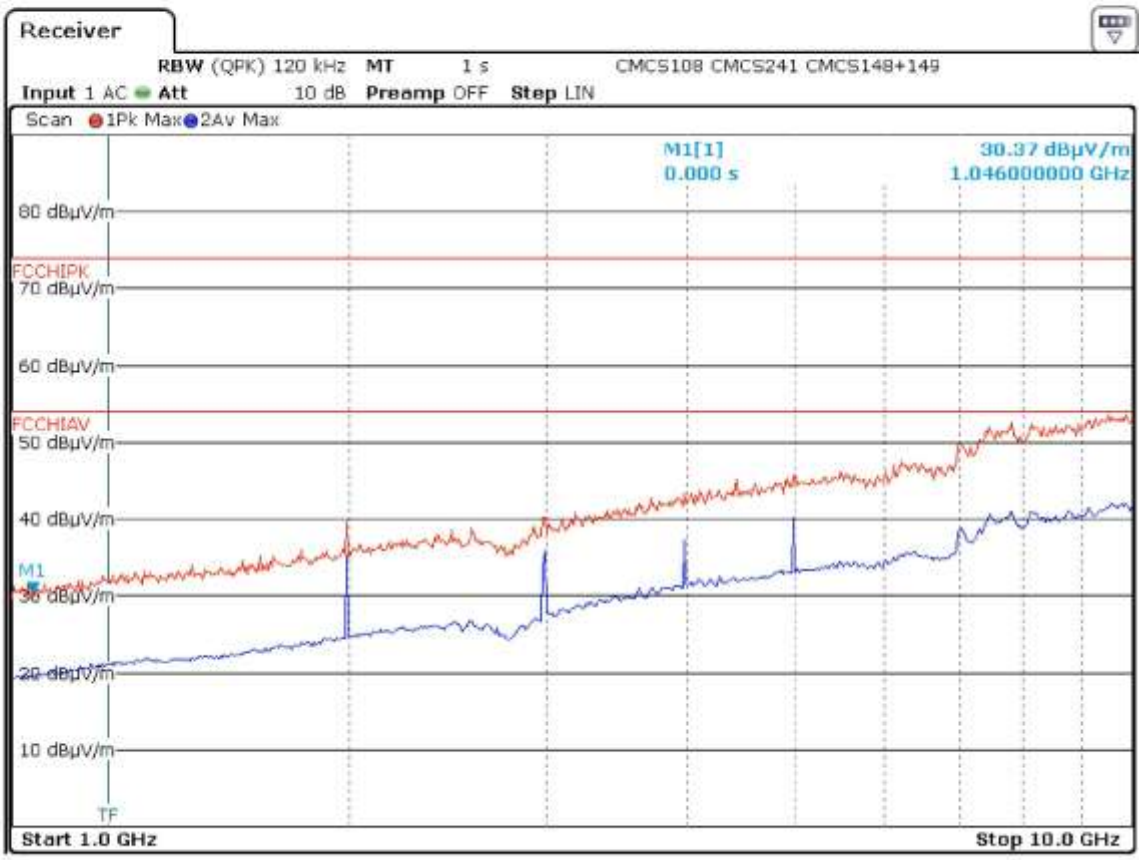
G13203546



Bertezzolo 13203546 VERT - Fmax TX

Result: The requirements are met

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11.3 Occupied bandwidth (99% BW)

Test set-up and execution

- RSS 210 Annex 2 (A2.9)
- 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

RSS 210 Annex 2 (A2.9)

Environmental conditions

Temperature (°C)	*Atmospheric pressure (kPa)*	*Relative humidity (%)*
22	99	51

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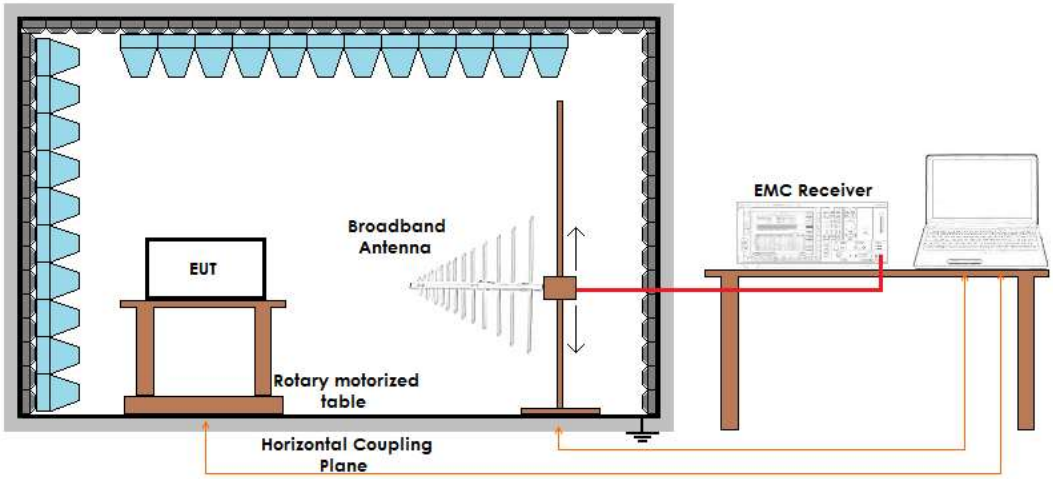
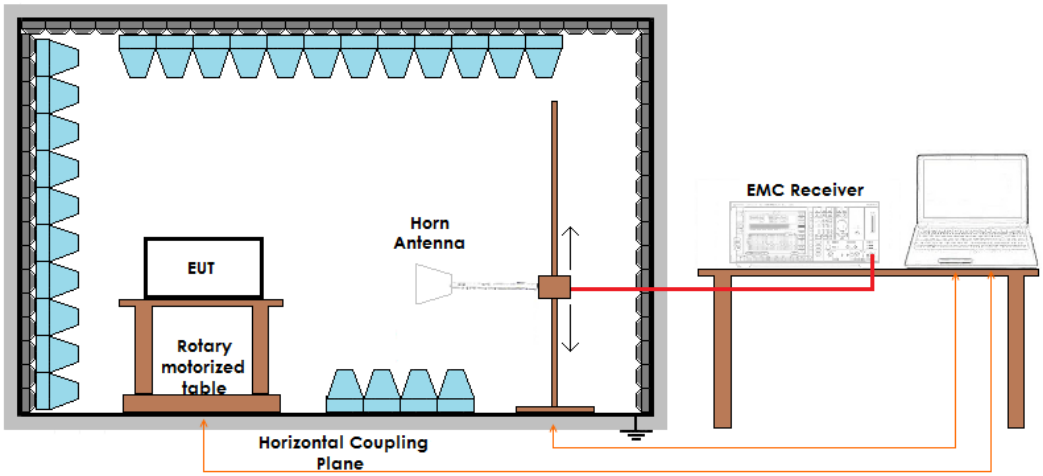
Setup

Frequency ≤ 1 GHz



Frequency > 1 GHz



Result

f (MHz)	*99% bandwidth (kHz)*	*Graphs*	*Results*
915,050	14,0	G13203553	Complies
921,000	14,1	G13203562	Complies
927,750	14,2	G13203558	Complies

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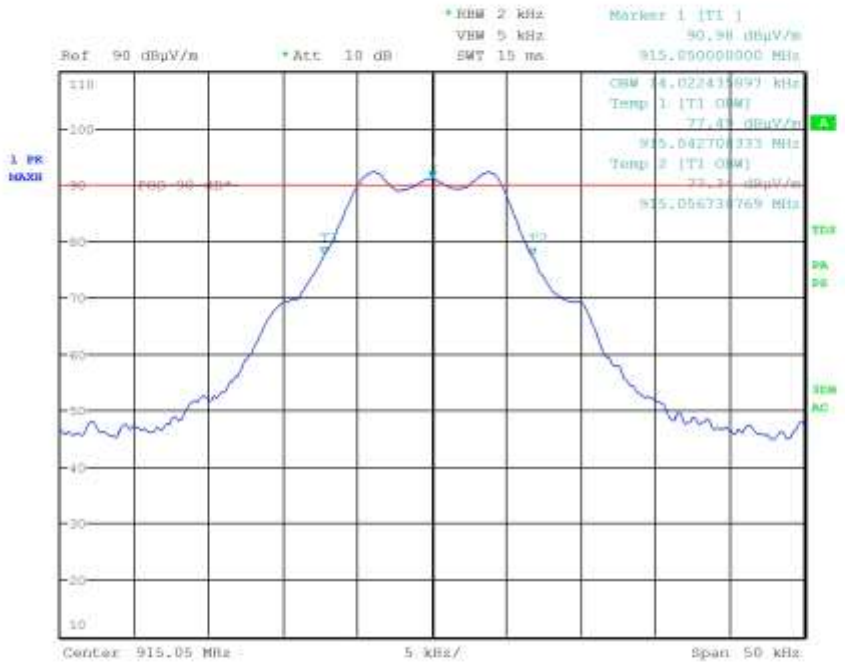
Graphs

G13203553

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition FMIN
Operator Gandini 13203553
Test Spec
Horiz



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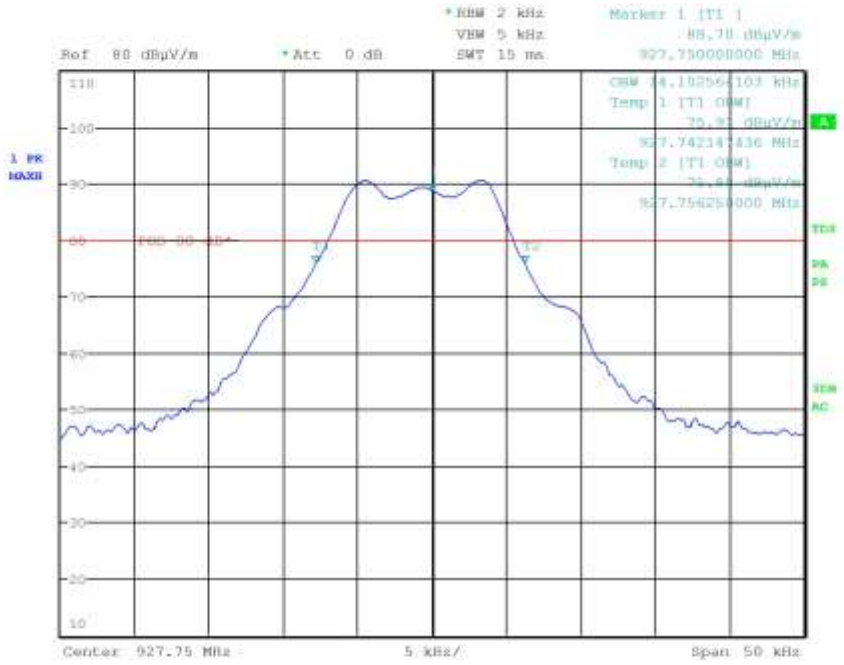
G13203558

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMAX
Operator	Gandini 13203558
Test Spec	

Horiz



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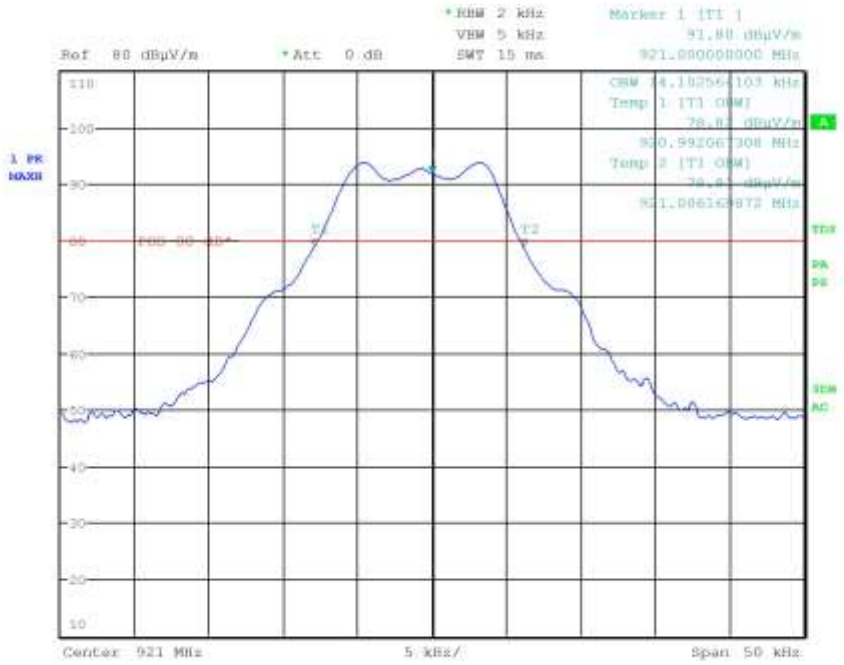
G13203562

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMED
Operator	Gandini 13203562
Test Spec	

Horiz



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.

11.4 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209 and Part 15.249
- RSS-210
- 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

Environmental conditions

Temperature (°C)	*Atmospheric pressure (kPa)*	*Relative humidity (%)*
24	99	52

Acceptance limits

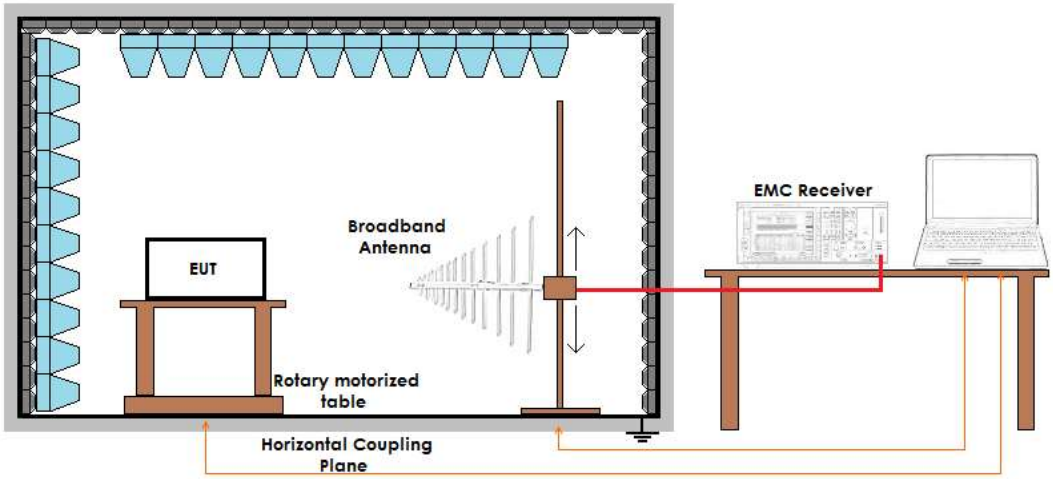
Frequency range (MHz)	*RF Power Output dB(µV/m)*
902 – 928	94

Frequency range (MHz)	*RF Power Output dB(µV/m)*
2400 – 2483,5	94

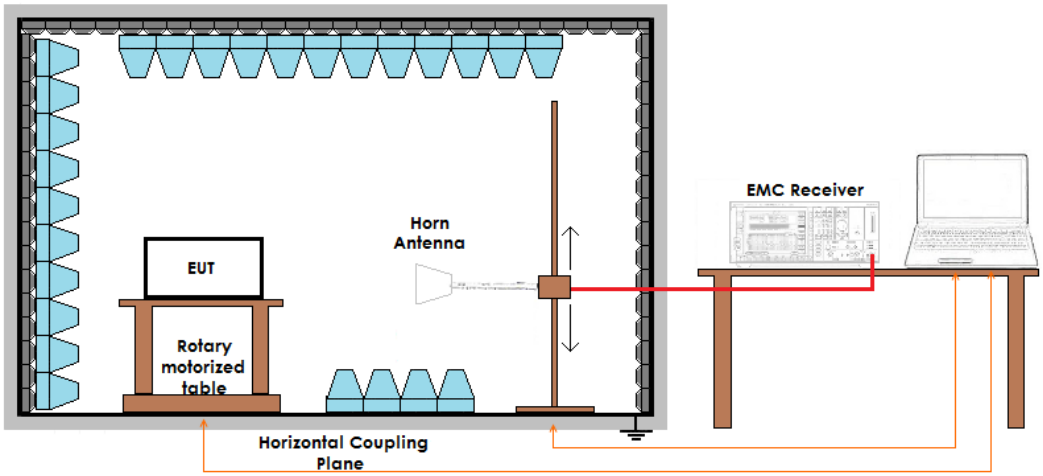
CMC Centro Misure Compatibilità S.r.l.

Setup

Frequency ≤ 1 GHz



Frequency > 1 GHz



Result

Frequency (MHz)	*Polarization*	*Graphs*	*Measured QP level (dBµV/m)*	*Peak Output Power (mW)*	*Remarks*
915,050	Horizontal	G13203550	92.61	0,55	--
915,050	Vertical	G13203554	87.77	0,18	--
921,000	Horizontal	G13203561	93.84	0,73	--
921,000	Vertical	G13203560	91.41	0,41	--
927,750	Horizontal	G13203555	90.61	0,34	--
927,750	Vertical	G13203559	86.94	0,15	--

Remarks
//////////

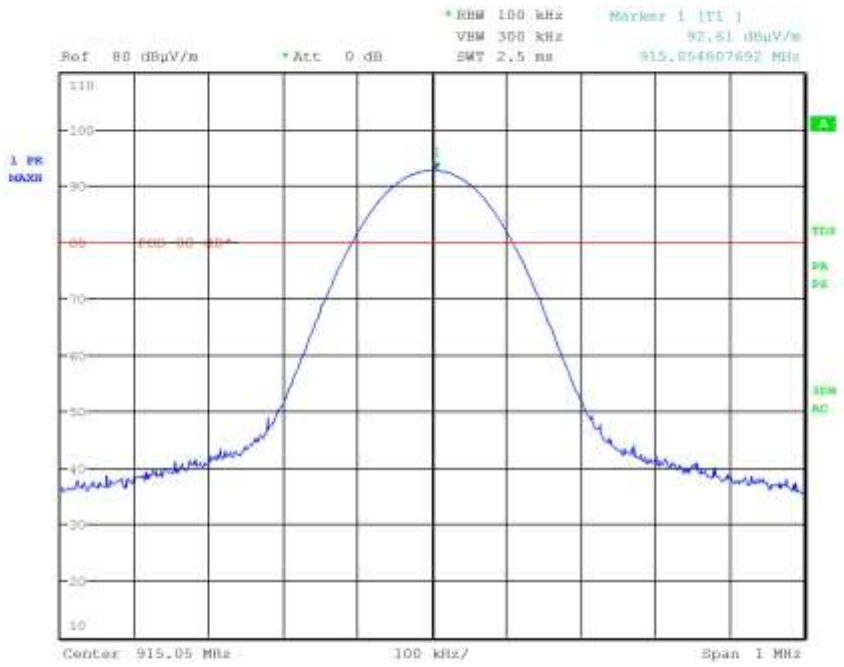
CMC Centro Misure Compatibilità S.r.l.

Graphs

G13203550

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMIN
Operator	Gandini 13203550
Test Spec	

Horiz

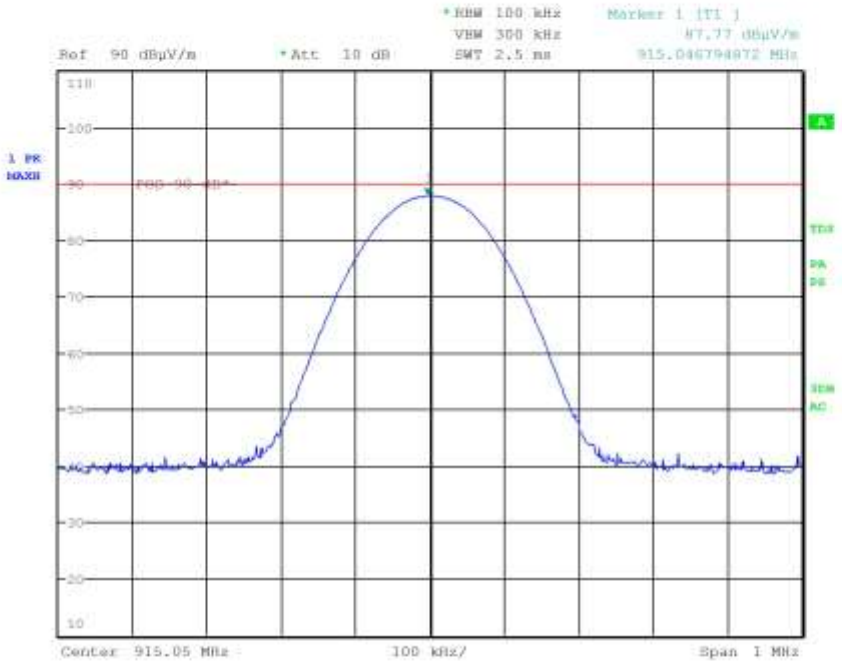


CMC Centro Misure Compatibilità S.r.l.

G13203554

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMIN
Operator	Gandini 13203554
Test Spec	

Vert

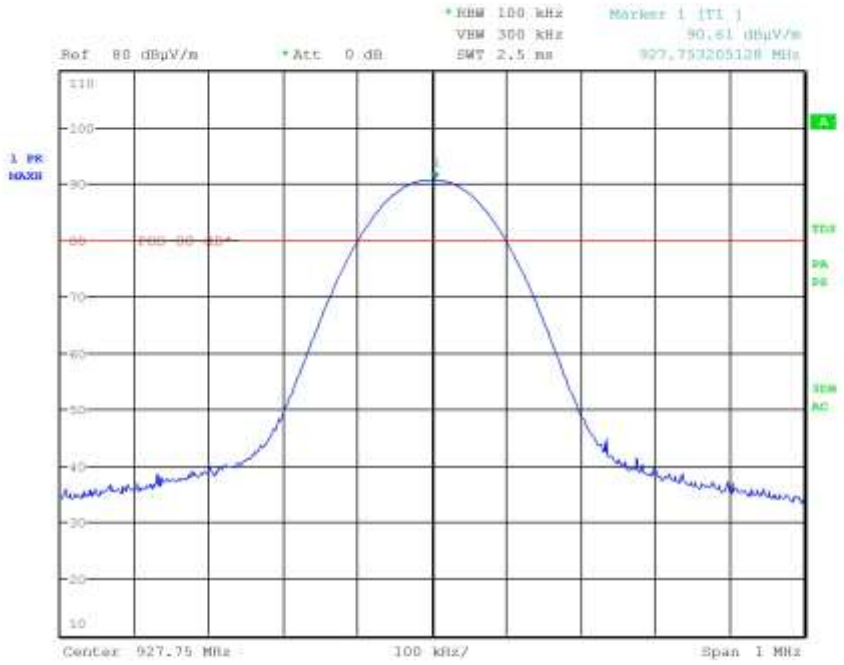


CMC Centro Misure Compatibilità S.r.l.

G13203555

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMAX
Operator	Gandini 13203555

Test Spec
Horiz

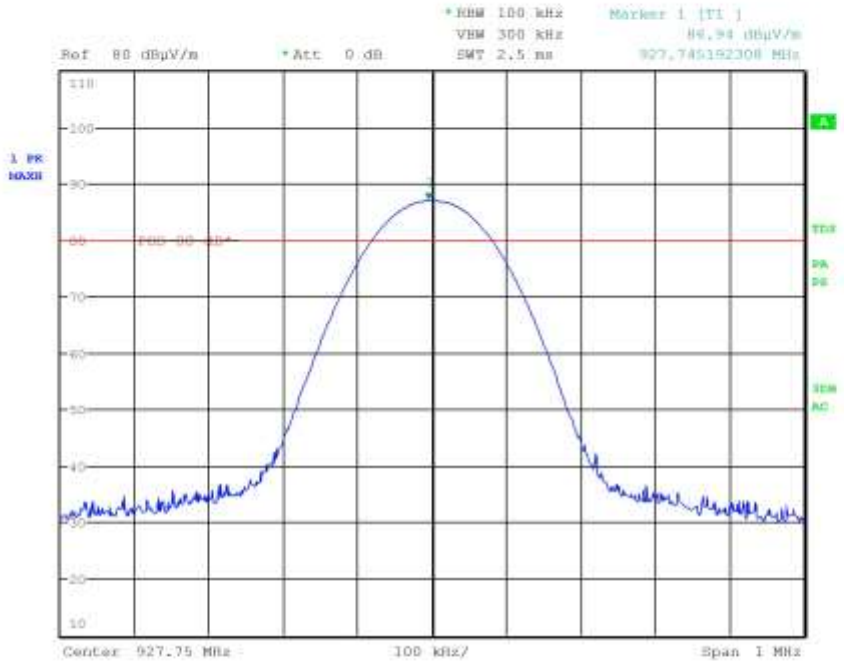


CMC Centro Misure Compatibilità S.r.l.

G13203559

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMAX
Operator	Gandini 13203559
Test Spec	

Vert

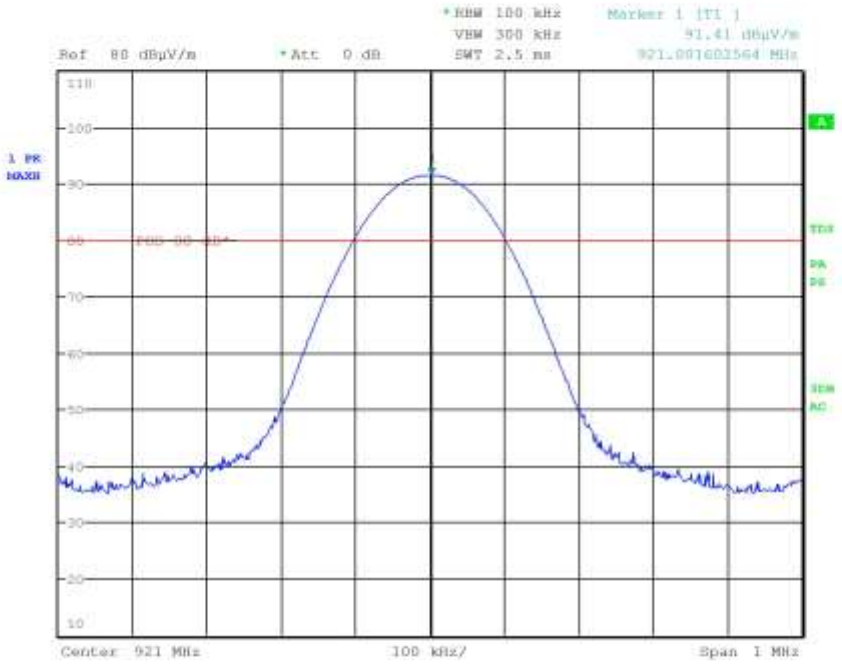


CMC Centro Misure Compatibilità S.r.l.

G13203560

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMED
Operator	Gandini 13203560
Test Spec	

Vert

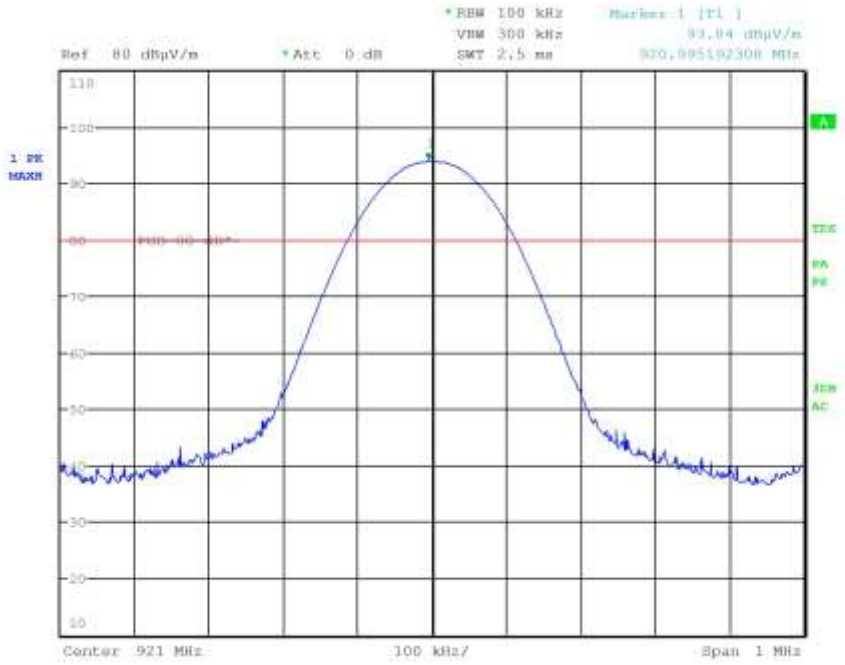


CMC Centro Misure Compatibilità S.r.l.

G13203561

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMED
Operator	Gandini 13203561
Test Spec	

Horiz



Result: The requirements are met

11.5 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.249 (d)
- RSS-210
- 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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation

Environmental conditions

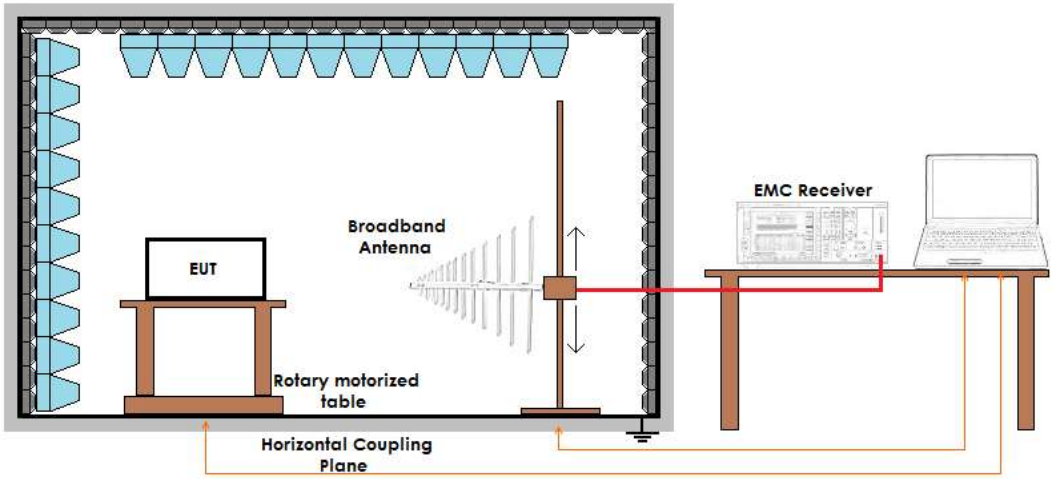
Temperature (°C)	*Atmospheric pressure (kPa)*	*Relative humidity (%)*
22	98	49

Acceptance limits: operation within the band 902 – 928 MHz MHz

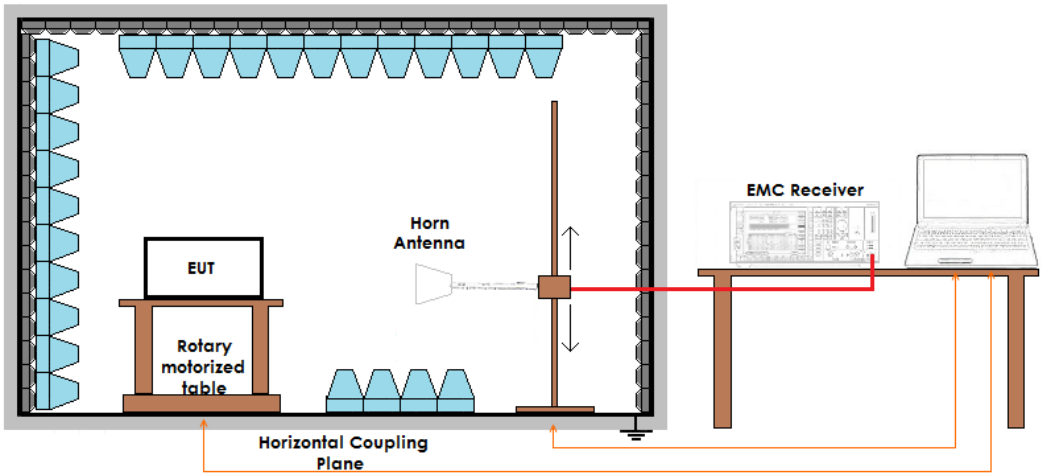
CMC Centro Misure Compatibilità S.r.l.

Setup

Frequency ≤ 1 GHz



Frequency > 1 GHz



Result

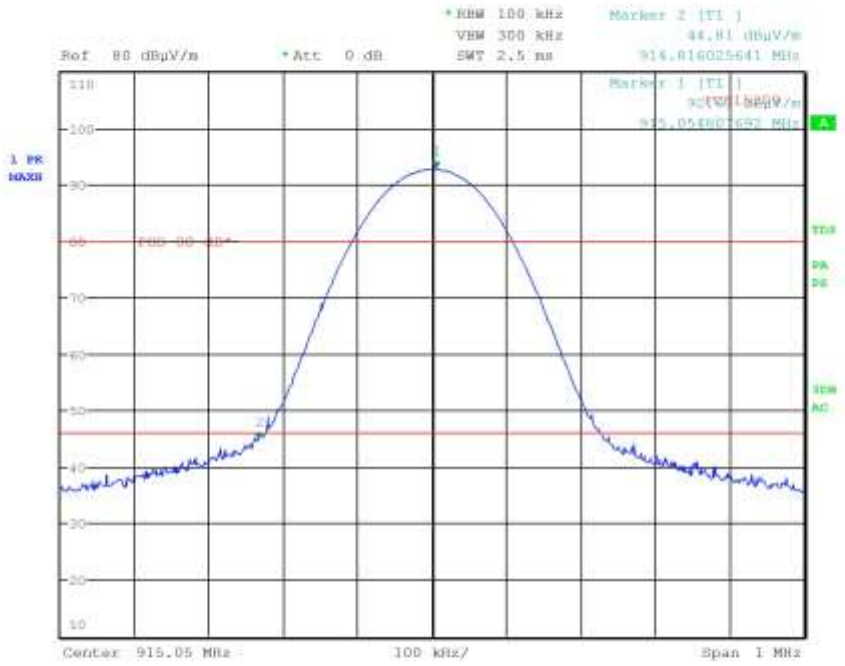
Frequency (MHz)	*Graph(s)*	*Results*	
915,050	G13203551 G13203552	F_L: 914,816	Complies
927,750	G13203556 G13203557	F_H: 927,969	Complies

CMC Centro Misure Compatibilità S.r.l.

Graphs

G13203551

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition FMIN
Operator Gandini 13203551
Test Spec
Horiz

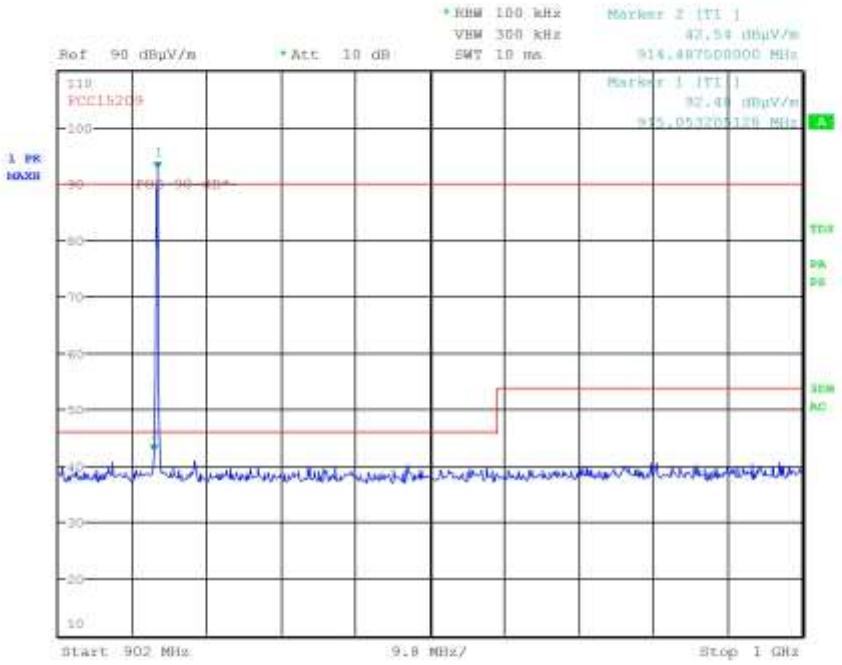


CMC Centro Misure Compatibilità S.r.l.

G13203552

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMIN
Operator	Gandini 13203552
Test Spec	

Horiz

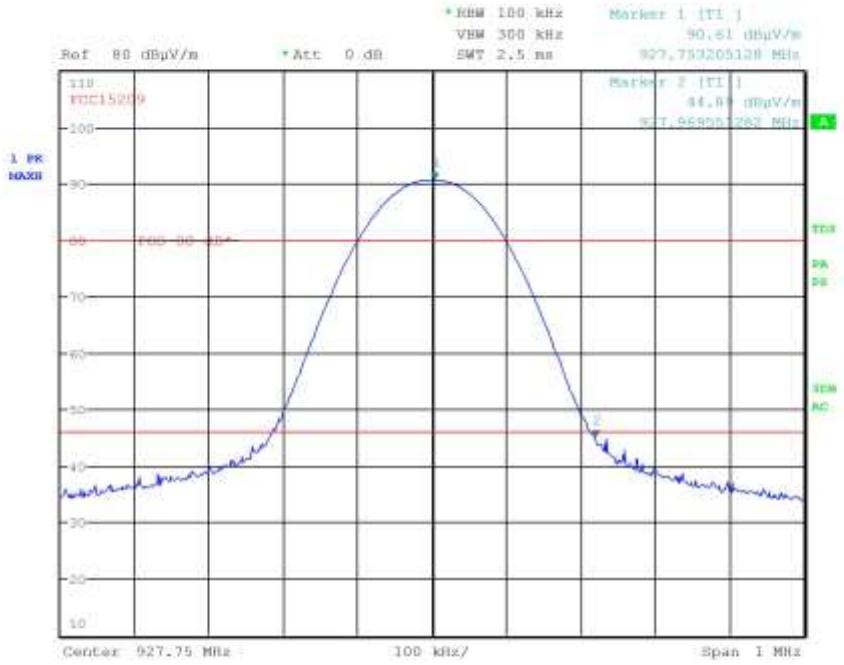


CMC Centro Misure Compatibilità S.r.l.

G13203556

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMAX
Operator	Gandini 13203556
Test Spec	

Horiz

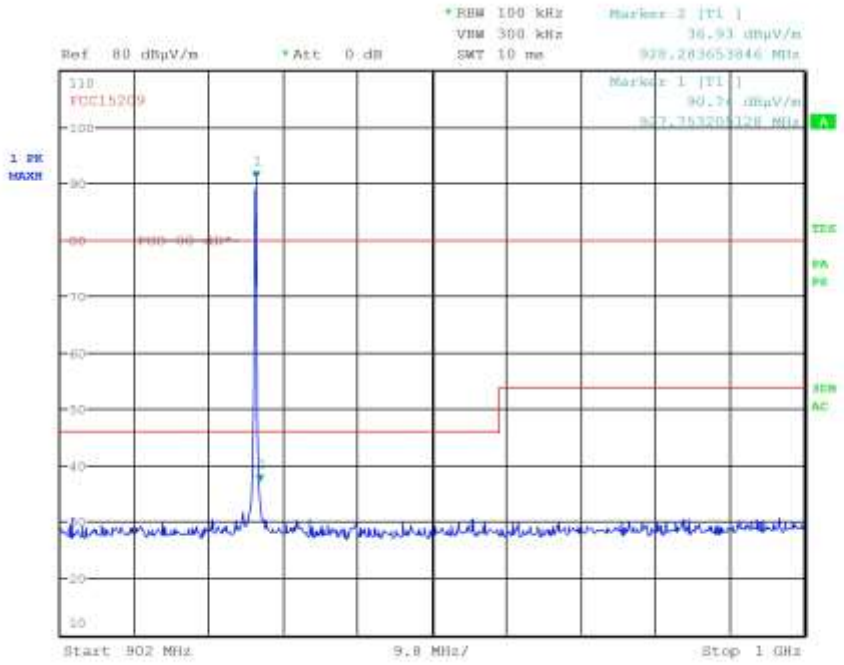


CMC Centro Misure Compatibilità S.r.l.

G13203557

Meas Type	Emission
Equipment under Test	
Manufacturer	
OP Condition	FMAX
Operator	Gandini 13203557
Test Spec	

Horiz



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.

11.6 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- RSS-210
- 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	98	50

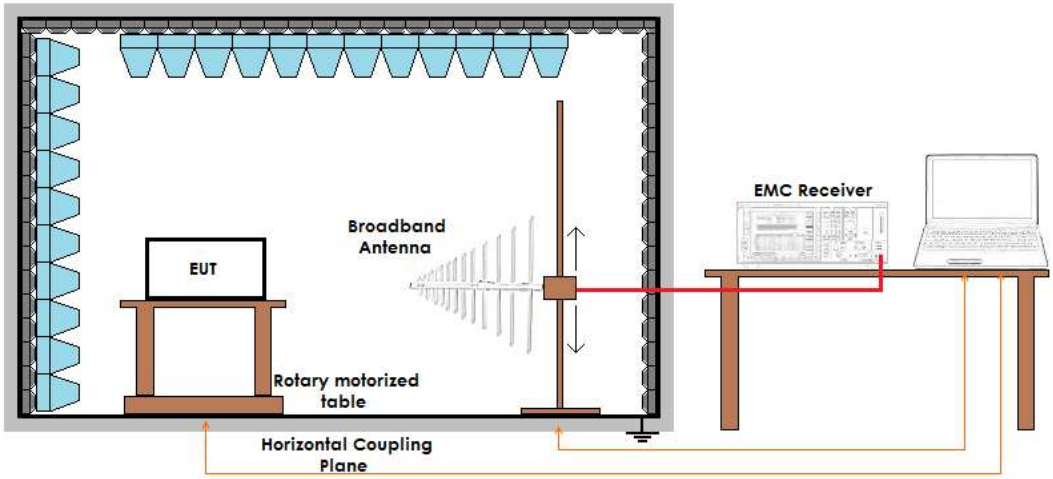
Acceptance limits

Frequency (MHz)	*AV limits [dB(µV/m)]*	*Peak limits [dB(µV/m)]*
> 1000	54	74

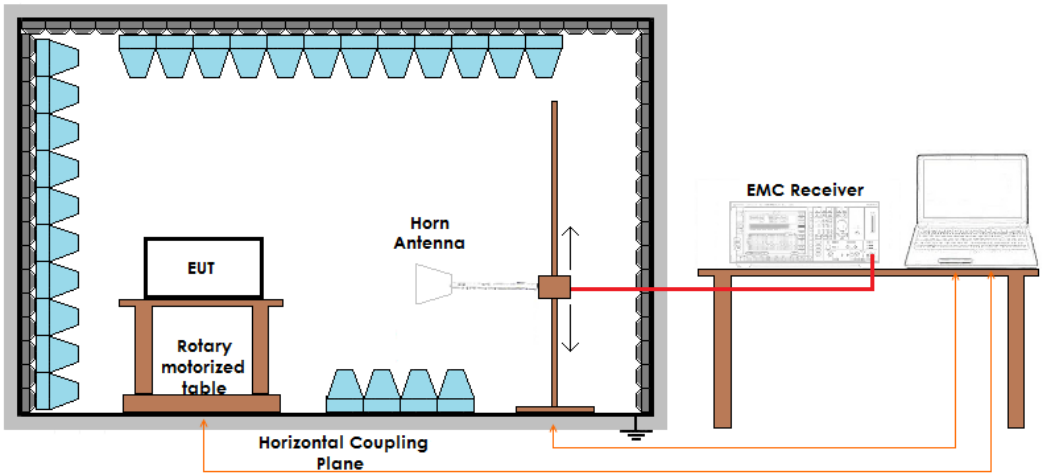
CMC Centro Misure Compatibilità S.r.l.

Setup

Frequency ≤ 1 GHz



Frequency > 1 GHz



CMC Centro Misure Compatibilità S.r.l.

Graph:	From G13145343

Result – AV detector

Harmonic	*Limits (dBµV/m)*	*Level (dBµV/m)*			*Results*
		915,050 MHz	*921,000 MHz*	*927,750 MHz*	
II	54	41,5	38,5	41,4	Complies
III	54	41,4	43,0	39,0	Complies
IV	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
V	54	44,2	46,5	43,8	Complies
VI	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VII	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VIII	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
IX	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
X	54	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values					

Result – Peak detector

Harmonic	*Limits (dBµV/m)*	*Level (dBµV/m)*			*Results*
		915,050 MHz	*921,000 MHz*	*927,750 MHz*	
II	74	44,3	41,9	44,1	Complies
III	74	44,5	45,9	42,2	Complies
IV	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
V	74	48,3	50,7	48,0	Complies
VI	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VII	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
VIII	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
IX	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
X	74	More than 15dB below limit	More than 15dB below limit	More than 15dB below limit	Complies
Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values					

Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.