



CMC Centro Misure Compatibilità S.r.l.
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LAB N° 0168

Independent Testing Laboratory
Accredited by ACCREDIA according to UNI CEI EN ISO/IEC 17025 cert. nr. 0168

TEST REPORT nr. R17110401

Federal Communication Commission (FCC)

Test item

Description: TRANSCEIVER UNIT
Trademark: AUTEC
Model/Type: Model A08 Type LA5AM
FCC ID: OQA-A08LA5AM

Test Specification

Standard.....: FCC Rules & Regulations, Title 47:2016
Part 15 paragraph(s): 203, 204, 207, 209 and 249

Client's name: AUTEC S.r.l.

Address: Via Pomaroli, 65 – 36030 Caldognو (VI) – ITALY

Manufacturer's name : Same as client

Address: --

Report

Tested by: G. Gandini – Technician

Approved by: R. Beghetto – Laboratory Manager

Date of issue: 26.07.17

Contents: 60 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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1. Summary

Standard:

FCC Rules & Regulations, Title 47:2016
Part 15 paragraph(s): 203, 204, 207, 209 and 249

Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.203	Antenna requirements	1	Complies
Part 15.207	Conducted emissions	--	N.A. (+)
Part 15.209	Radiated emissions	2	Complies
Part 15.209 and 15.249	Peak Output Power	3	Complies
Part 15.249 (d)	Band edge	4	Complies
Part 15.209	Spurious emission	5	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 : 3,7 Vdc from battery

Serial Number : --

Type of equipment : Transmitter Unit

Receiver Unit

Type of station : Fixed station
 Portable station
 Mobile station

Nominal frequency : F_L : 915,05 MHz F_M : 921,00 MHz F_H : 927,75 MHz

2.1 Test Site

Company : CMC Centro Misure Compatibilità S.r.l.

Address : Via della Fisica, 20
36016 Thiene (VI) – ITALY

Test site facility's FCC registration number : 182474

3. Testing and sampling

Date of receipt of test item : 30.05.17

Testing start date : 26.06.17

Testing end date : 17.07.17

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 P170657

4. Operative conditions

EUT exercising : EUT in continuous transmission at maximum power



5. Photograph(s) of EUT

5.1 Photograph(s) of EUT



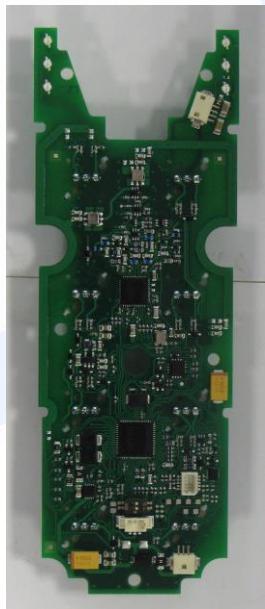
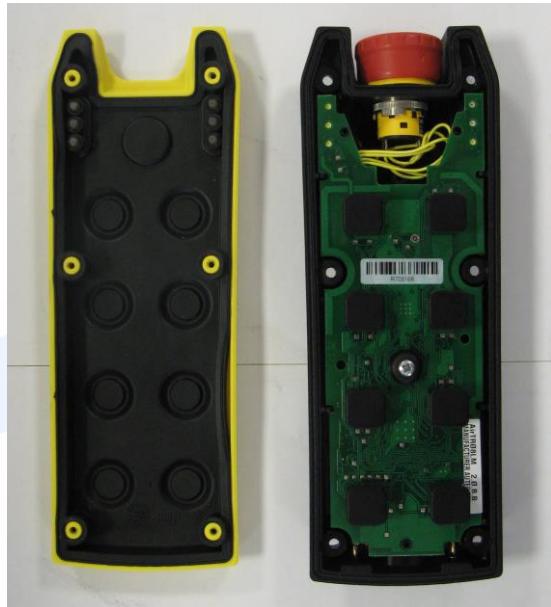


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6. Equipment list

Id. number	Manufacturer	Model	Description	Serial number	Last calibration	Due date calibration
CMC S010	Rohde & Schwarz	ESH3-Z2	Impulses Limiting Device	---	January '17	January '18
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '16	June '19
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '13	November '18
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '17	January '18
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '17	January '18
CMC S227	Rohde & Schwarz	ESR7	EMI Test Receiver 7GHz	101121	January '17	January '18
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '16	November '17
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '16	November '17
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '16	November '17
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '16	November '17
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '16	November '17
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '16	June '19
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3Ghz)	9111B-203	June '16	June '19
CMC S288	CMC	W_sma_white	Joint Shielded Cable	W_001	November '16	November '17



7. Measurement uncertainty

Test	Test Setup	Expanded uncertainty		Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150MHz	PE001_01	3,4	dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_01	2,8	dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30MHz	PE001_02	2,6	dB	1
Conducted emission CISPR 16 Current Probe 0,15-30MHz	PE001_03	2,2	dB	1
Conducted emission CISPR 16 ISN 0,15-30MHz	PE001_04	4,5	dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_05	2,8	dB	1
Disturbance Power 30-300 MHz	PE002_01	3,4	dB	1
Radiated Emission LAS 0,15-30MHz	PE003_01	1,5	dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30MHz	PE004_01	3,8	dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300MHz	PE004_02	3,3	dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000MHz	PE004_03	3,2	dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18GHz	PE004_04	3,6	dB	1
Human Exposure to electromagnetic fields	PE005_01	10,5	%	1
Harmonic current emissions test	PE006_01	10 mA	+	1,6 %
Voltage fluctuation and flicker test	PE007_01			3,9 %
Radiated Immunity 80MHz-6GHz	PE102_XX	2,1	dB	0,81 V/m a 3V/m
Conducted Immunity 0,15-230MHz	PE105_XX	1,2	dB	0,44 V a 3V
AC Magnetic field	PE106_01	1,55	%	0,15 A/m a 10A/m
Pulse Magnetic field	PE107_01	6,22	%	18,6 A/m a 300A/m
Dumped Magnetic field	PE108_01	6,22	%	1,86 A/m a 30A/m
Common mode conducted immunity	PE112_01	2,12	%	0,21 V a 10V



Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	3,8 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,3 dB	1
Misura della potenza EiRP 1-18GHz d=3m	PR001_04	4,3 dB	1
Misura della potenza EiRP 18-40GHz d=3m	PR001_05	5,5 dB	1
Frequency error	PR002_01+02	< 1x10-7	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	< 1x10-7	1
Conducted RF power and spurious emission	PR002_01+02	1,2 dB	1
Adjacent channel power	PR002_01+02	1,2 dB	1
Blocking	PR002_01+02	1,2 dB	1

Test	Test Setup	Expanded uncertainty	Note
Electrostatic discharge immunity test	PE101_0X		2
Electrical fast transients / burst immunity test	PE103_0X		2
Surge immunity test	PE104_0X		2
Short interruption immunity test	PE109_01		2

Rev_17_01 date 20/03/2017

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 demonstrated 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 15:2016	--
ANSI C63.4:2014	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
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 9.0 (Quality Manual)	Measurement uncertainty calculation



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.



11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 9.0.

Judgement of compliance:

Case 1	Case 2	Case 3	Case 4
 The sample complies with the requirement. The measurement results is within the specification limit when the measurement uncertainty is taken into account.	 The sample complies with the requirement. It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit.	 The sample does not comply with the requirement. 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 sample does not comply with the requirement. 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.



11.1 Antenna requirements

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203 and 15.204
- 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 (%)
20	101	42

Result

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

Result: The requirements are met



11.2 Radiated emissions

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209
- 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 S164, CMC S271,
CMC S287
Measurement uncertainty: See clause 7 of this
test report

Test specification

Port: Enclosure

Frequency range: 0,009 MHz – 10000 MHz

Antenna polarization: Horizontal (H) – Vertical (V)

10 m for frequencies ≤ 1000 MHz

3 m for frequencies > 1000 MHz

Environmental conditions

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

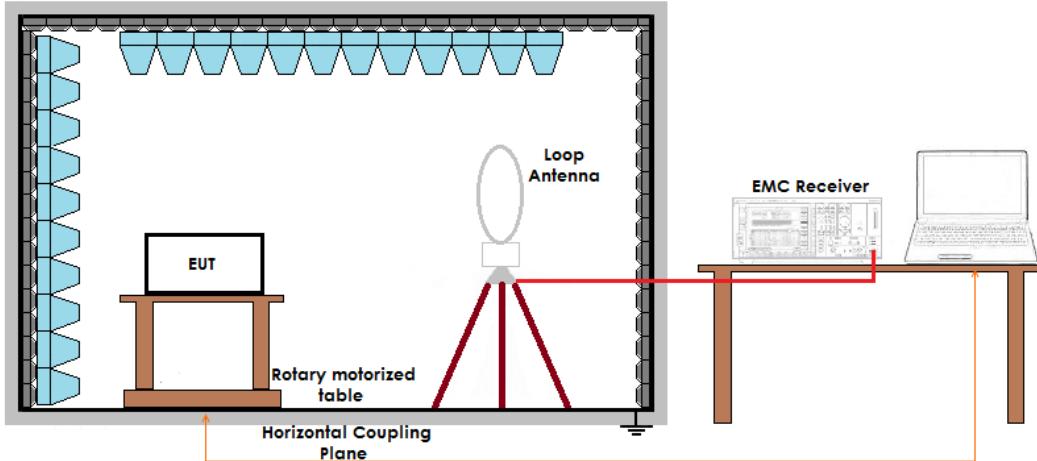
Acceptance limits

Frequency range (MHz)	Test distance (m)	Limits [dB(µV/m)]	
0,009 to 0,490	300	48,5	to 13,8
0,490 to 1,705	30	33,8	to 22,9
1,705 to 30	30	29,5	
30 to 88	3	40	
88 to 216	3	43,5	
216 to 960	3	46,0	
Above 960	3	53,9	
	Test distance (m)	Linear average detector [dB(µV/m)]	Peak detector [dB(µV/m)]
Above 1000	3	53,9	73,9

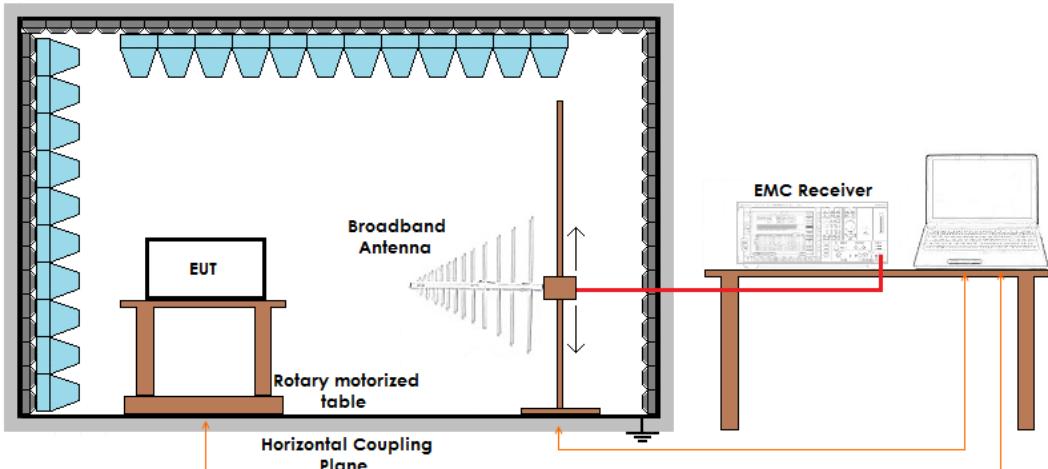
Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

Setup

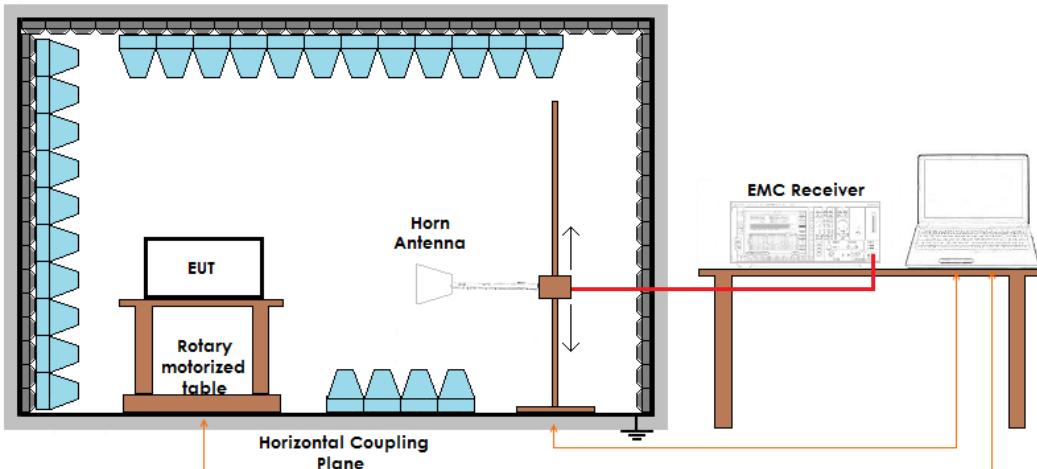
Frequency \leq 30 MHz



Frequency \leq 1 GHz



Frequency $>$ 1 GHz





Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
H	30 – 300	G17110401	Lowest channel	Complies
V	30 – 300	G17110402	Lowest channel	Complies
V	30 – 300	G17110403	Medium channel	Complies
H	30 – 300	G17110404	Medium channel	Complies
H	30 – 300	G17110405	Highest channel	Complies
V	30 – 300	G17110406	Highest channel	Complies
V	300 – 1000	G17110407	Highest channel	Complies
H	300 – 1000	G17110408	Highest channel	Complies
H	300 – 1000	G17110409	Medium channel	Complies
V	300 – 1000	G17110410	Medium channel	Complies
V	300 – 1000	G17110411	Lowest channel	Complies
H	300 – 1000	G17110412	Lowest channel	Complies
Loop	0,009 – 30	G17110413	Worst case	Complies
H	1000 – 10000	G17110430	Highest channel	Complies
V	1000 – 10000	G17110431	Highest channel	Complies
V	1000 – 10000	G17110432	Medium channel	Complies
H	1000 – 10000	G17110433	Medium channel	Complies
H	1000 – 10000	G17110434	Lowest channel	Complies
V	1000 – 10000	G17110435	Lowest channel	Complies

Remarks: Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with FCC 3A10 factor.
Peaks above the limits are caused by the nominal transmitting frequencies. Final measurements have been performed only for values with margin lower than 20 dB from limit

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

Meas Type Emission

Equipment under Test

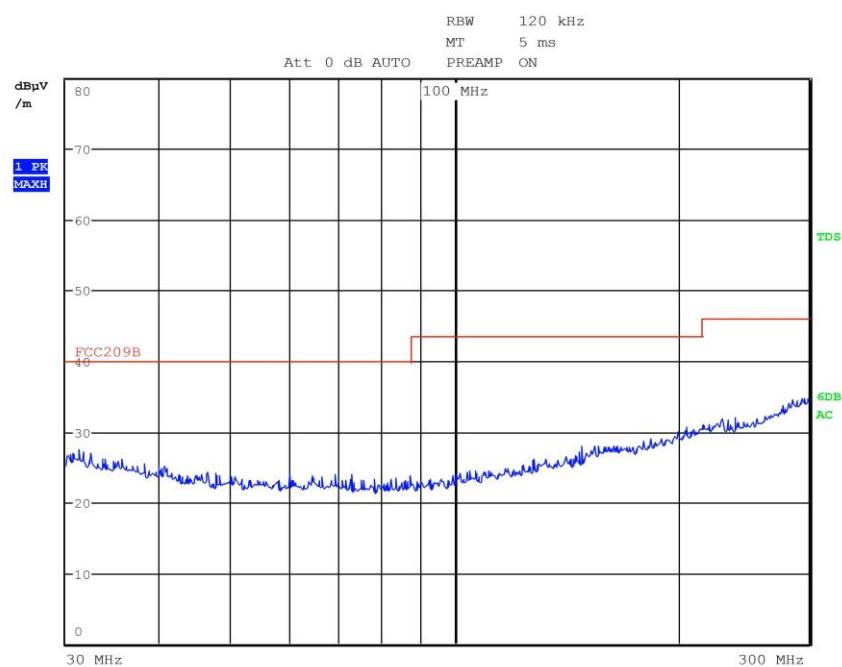
Manufacturer

OP Condition Tx - Fmin

Operator Gandini 17110401

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	30.200000000 MHz	27.75	Max Peak	-12.25
1	47.000000000 MHz	25.02	Max Peak	-14.98
1	76.600000000 MHz	24.31	Max Peak	-15.69
1	133.960000000 MHz	26.63	Max Peak	-16.89
1	202.840000000 MHz	30.50	Max Peak	-13.02
1	293.560000000 MHz	35.89	Max Peak	-10.13



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Meas Type Emission

Equipment under Test

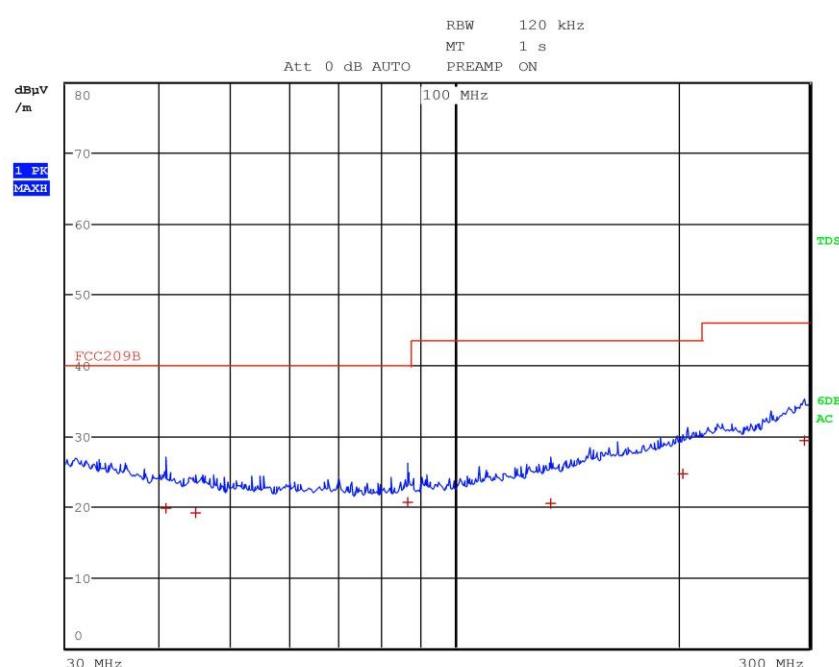
Manufacturer

OP Condition Tx - Fmin

Operator Gandini 17110402

Test Spec

Vert



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	40.840000000 MHz	19.73	Quasi Peak	-20.27
1	44.760000000 MHz	19.13	Quasi Peak	-20.87
1	86.600000000 MHz	20.67	Quasi Peak	-19.33
1	134.480000000 MHz	20.44	Quasi Peak	-23.08
1	202.720000000 MHz	24.56	Quasi Peak	-18.96
1	295.720000000 MHz	29.36	Quasi Peak	-16.66



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Meas Type Emission

Equipment under Test

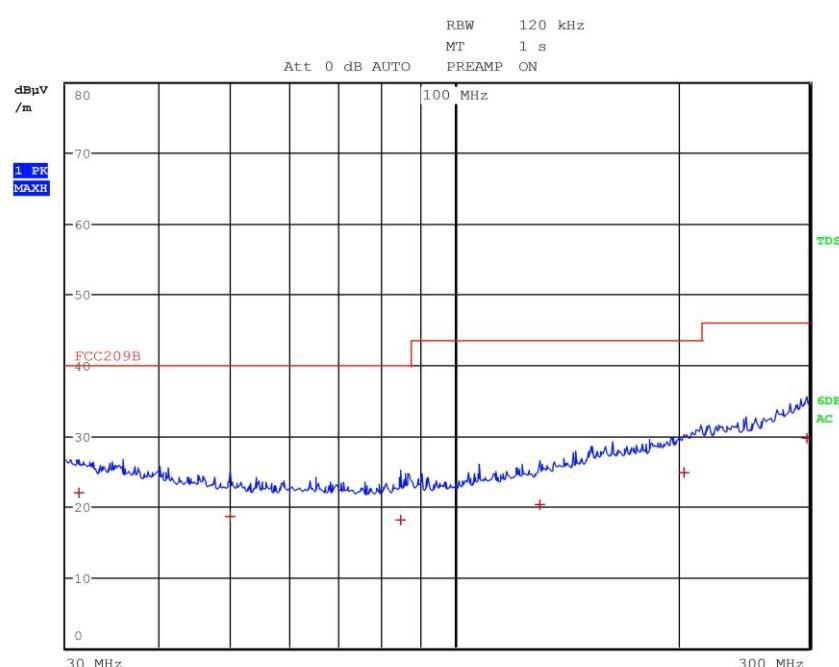
Manufacturer

OP Condition Tx - Fmid

Operator Gandini 17110403

Test Spec

Vert



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	31.160000000 MHz	22.00	Quasi Peak	-18.00
1	49.920000000 MHz	18.52	Quasi Peak	-21.48
1	84.600000000 MHz	17.99	Quasi Peak	-22.01
1	130.440000000 MHz	20.29	Quasi Peak	-23.23
1	203.520000000 MHz	24.74	Quasi Peak	-18.78
1	297.960000000 MHz	29.63	Quasi Peak	-16.39



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Meas Type Emission

Equipment under Test

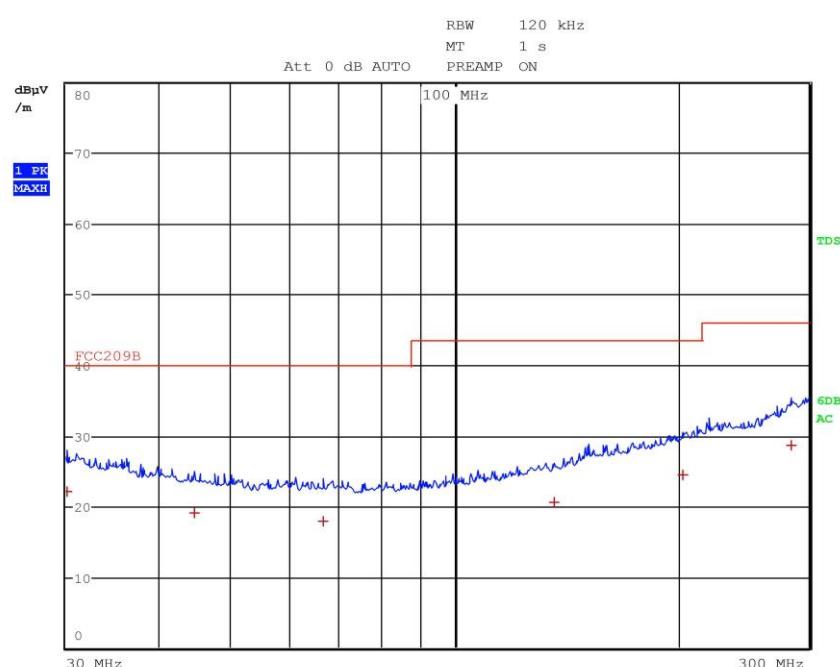
Manufacturer

OP Condition Tx - Fmid

Operator Gandini 17110404

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	30.080000000 MHz	22.08	Quasi Peak	-17.92
1	44.680000000 MHz	19.11	Quasi Peak	-20.89
1	66.520000000 MHz	17.89	Quasi Peak	-22.11
1	135.960000000 MHz	20.51	Quasi Peak	-23.01
1	202.560000000 MHz	24.52	Quasi Peak	-19.00
1	283.560000000 MHz	28.59	Quasi Peak	-17.43



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Meas Type Emission

Equipment under Test

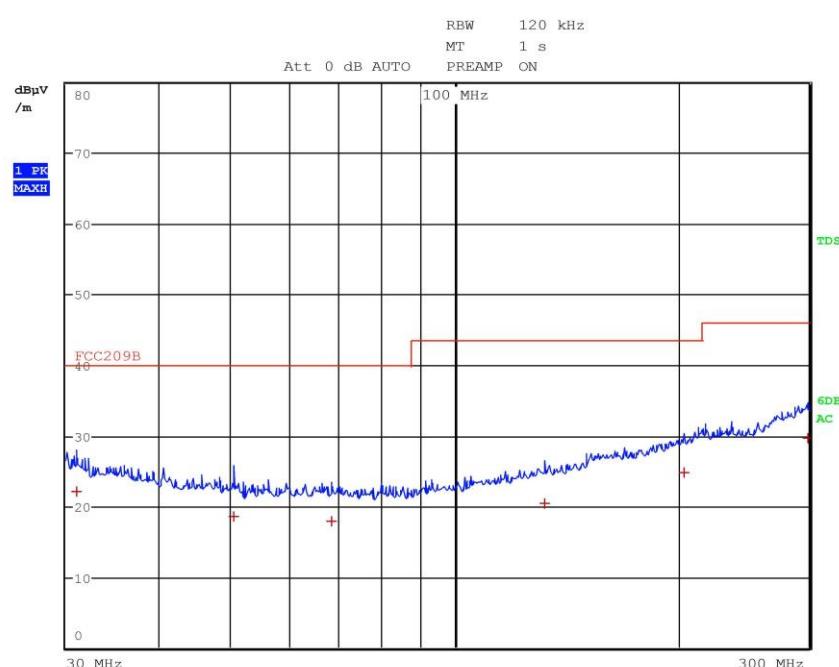
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 17110405

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	30.960000000 MHz	22.10	Quasi Peak	-17.90
1	50.400000000 MHz	18.54	Quasi Peak	-21.46
1	68.160000000 MHz	17.88	Quasi Peak	-22.12
1	132.080000000 MHz	20.35	Quasi Peak	-23.17
1	203.760000000 MHz	24.78	Quasi Peak	-18.74
1	298.640000000 MHz	29.66	Quasi Peak	-16.36



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Meas Type Emission

Equipment under Test

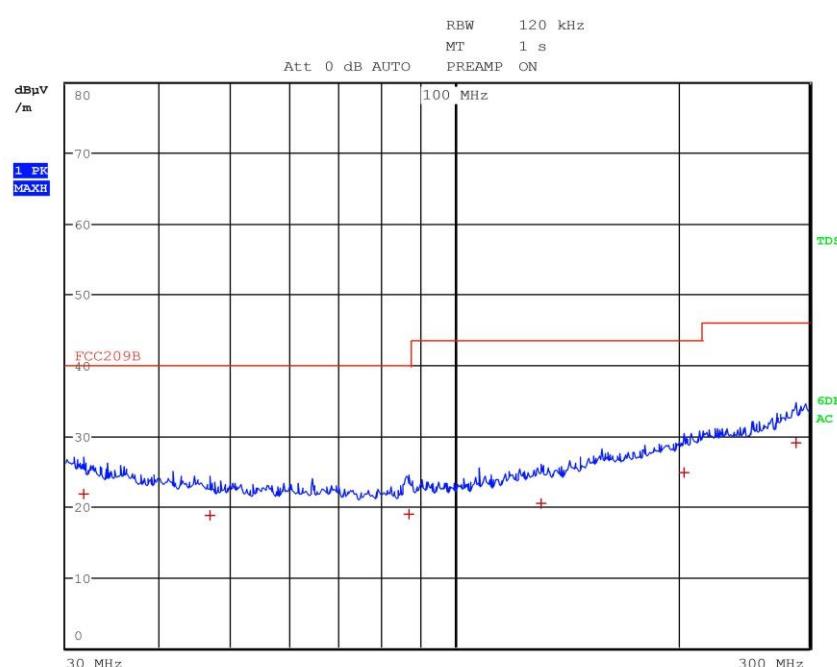
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 17110406

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	31.680000000 MHz	21.76	Quasi Peak	-18.24
1	46.800000000 MHz	18.68	Quasi Peak	-21.32
1	86.880000000 MHz	18.95	Quasi Peak	-21.05
1	130.960000000 MHz	20.37	Quasi Peak	-23.15
1	203.240000000 MHz	24.78	Quasi Peak	-18.74
1	288.520000000 MHz	29.05	Quasi Peak	-16.97



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Meas Type Emission

Equipment under Test

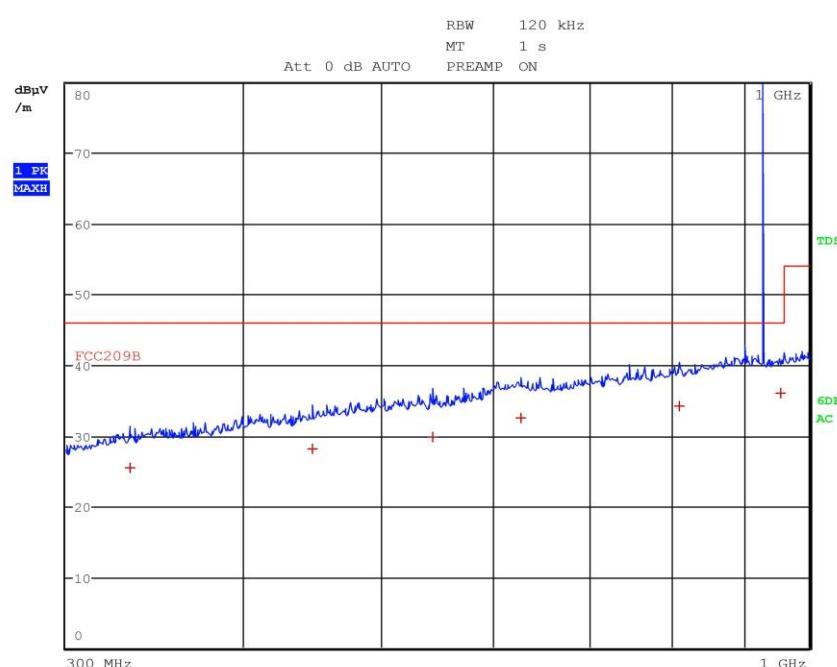
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 17110407

Test Spec

Vert



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	332.720000000 MHz	25.51	Quasi Peak	-20.51
1	447.040000000 MHz	28.10	Quasi Peak	-17.92
1	543.440000000 MHz	29.83	Quasi Peak	-16.19
1	627.480000000 MHz	32.46	Quasi Peak	-13.56
1	810.320000000 MHz	34.14	Quasi Peak	-11.88
1	953.920000000 MHz	35.98	Quasi Peak	-10.04



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Meas Type Emission

Equipment under Test

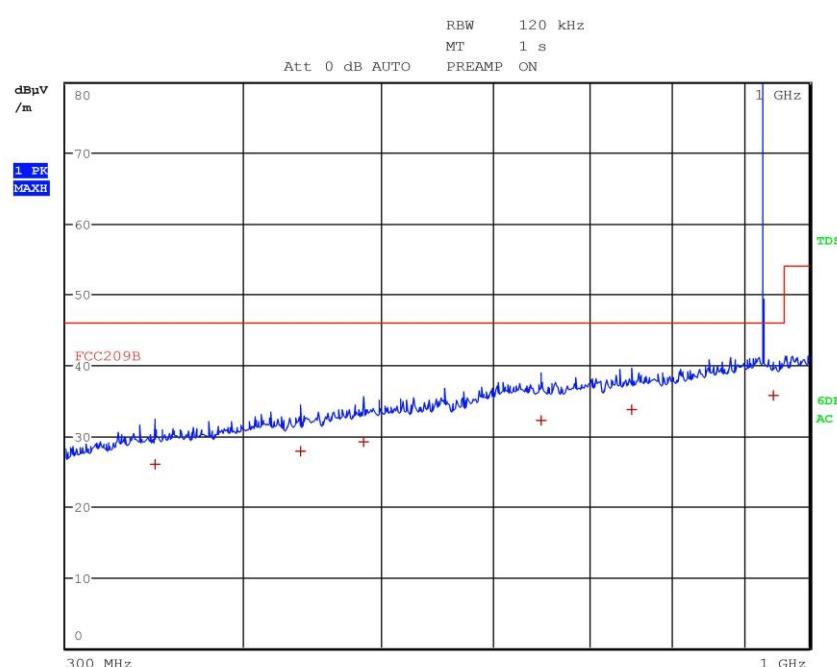
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 17110408

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	346.840000000 MHz	26.02	Quasi Peak	-20.00
1	438.440000000 MHz	27.83	Quasi Peak	-18.19
1	485.560000000 MHz	29.20	Quasi Peak	-16.82
1	648.040000000 MHz	32.14	Quasi Peak	-13.88
1	750.400000000 MHz	33.65	Quasi Peak	-12.37
1	943.680000000 MHz	35.79	Quasi Peak	-10.23



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

Manufacturer

OP Condition Tx - Fmid

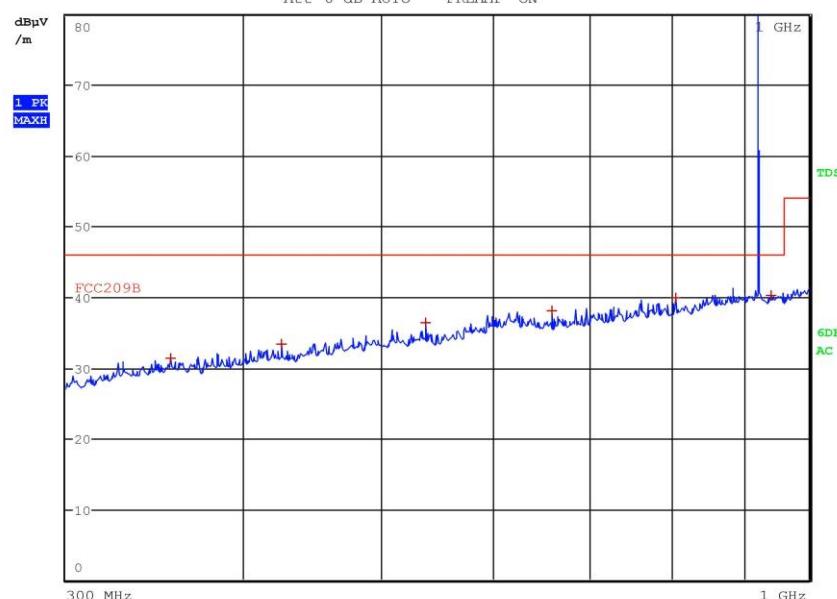
Operator Gandini 17110409

Test Spec

Horiz

RBW 120 kHz
MT 1 ms
PREAMP ON

Att 0 dB AUTO



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	355.280000000 MHz	31.29	Max Peak	-14.73
1	425.680000000 MHz	33.33	Max Peak	-12.69
1	537.200000000 MHz	36.42	Max Peak	-9.60
1	659.400000000 MHz	38.00	Max Peak	-8.02
1	805.920000000 MHz	39.94	Max Peak	-6.08
1	939.560000000 MHz	40.27	Max Peak	-5.75



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

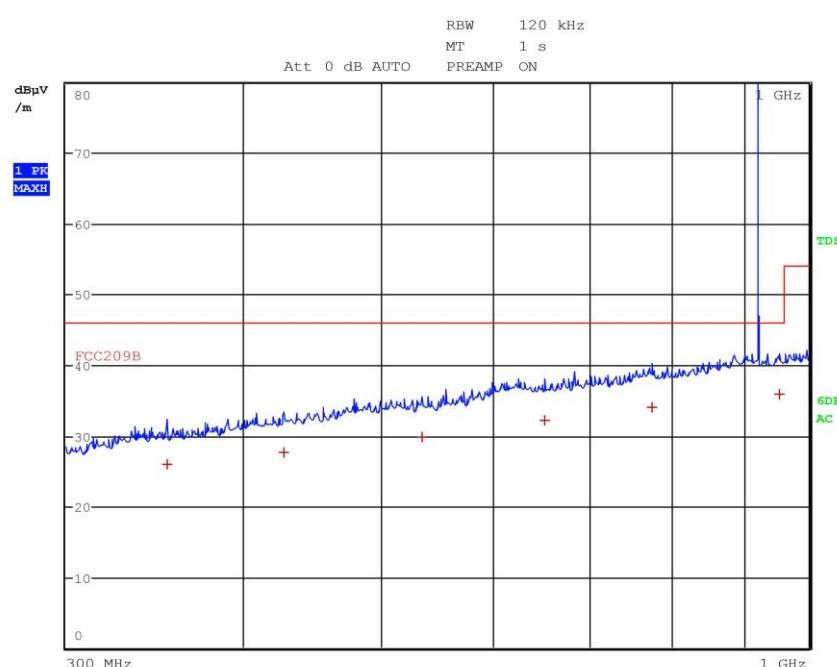
Manufacturer

OP Condition Tx - Fmid

Operator Gandini 17110410

Test Spec

Vert



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	353.120000000 MHz	26.00	Quasi Peak	-20.02
1	427.320000000 MHz	27.57	Quasi Peak	-18.45
1	533.960000000 MHz	29.86	Quasi Peak	-16.16
1	651.920000000 MHz	32.17	Quasi Peak	-13.85
1	775.720000000 MHz	34.00	Quasi Peak	-12.02
1	953.600000000 MHz	35.93	Quasi Peak	-10.09



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

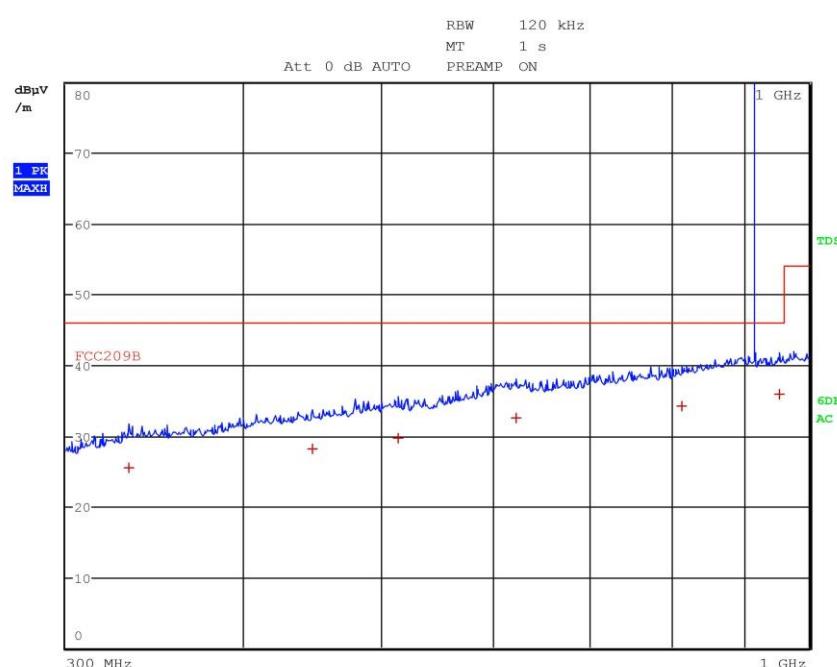
Manufacturer

OP Condition Tx - Fmin

Operator Gandini 17110411

Test Spec

Vert



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	332.080000000 MHz	25.50	Quasi Peak	-20.52
1	447.120000000 MHz	28.14	Quasi Peak	-17.88
1	514.320000000 MHz	29.67	Quasi Peak	-16.35
1	622.600000000 MHz	32.46	Quasi Peak	-13.56
1	814.160000000 MHz	34.23	Quasi Peak	-11.79
1	952.520000000 MHz	35.89	Quasi Peak	-10.13



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

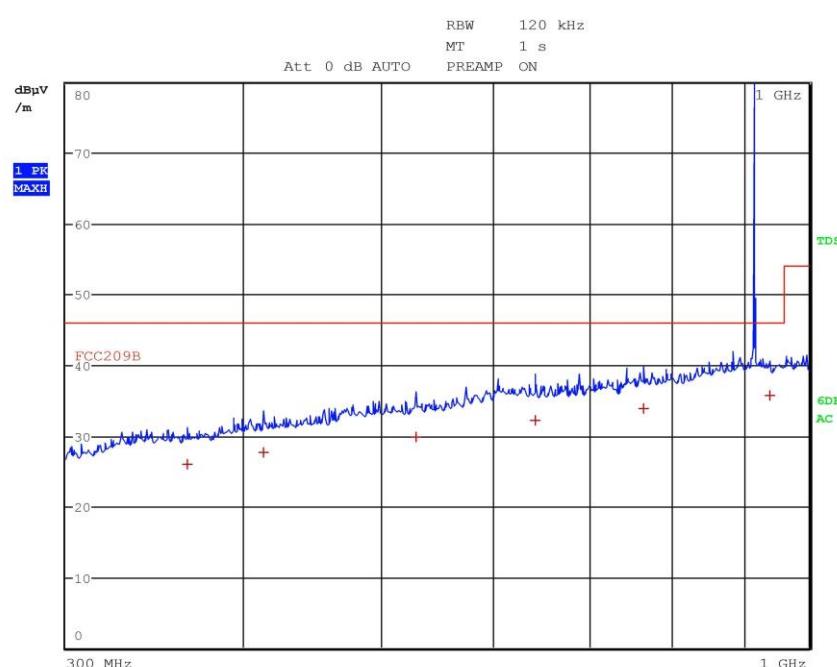
Manufacturer

OP Condition Tx - Fmin

Operator Gandini 17110412

Test Spec

Horiz



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	365.160000000 MHz	26.01	Quasi Peak	-20.01
1	413.560000000 MHz	27.58	Quasi Peak	-18.44
1	528.840000000 MHz	29.91	Quasi Peak	-16.11
1	642.040000000 MHz	32.23	Quasi Peak	-13.79
1	764.120000000 MHz	33.94	Quasi Peak	-12.08
1	937.760000000 MHz	35.74	Quasi Peak	56.76
				-10.28



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

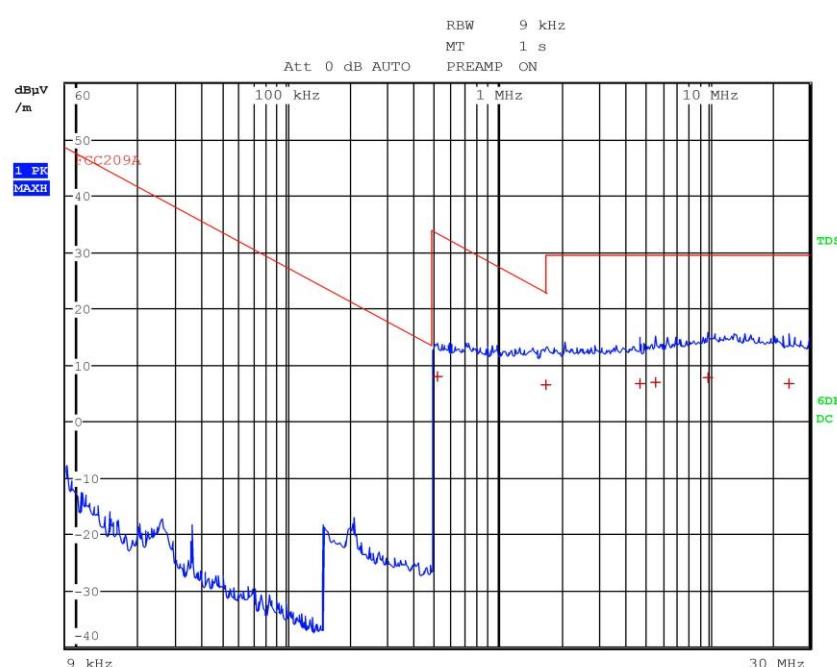
Manufacturer

OP Condition Tx - Rx

Operator Gandini 17110413

Test Spec

Loop



Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	518.000000000 kHz	8.07	Quasi Peak	-25.25
1	1.686000000 MHz	6.44	Quasi Peak	-16.63
1	4.754000000 MHz	6.75	Quasi Peak	-22.79
1	5.638000000 MHz	6.95	Quasi Peak	-22.59
1	9.986000000 MHz	7.81	Quasi Peak	-21.73
1	24.142000000 MHz	6.69	Quasi Peak	-22.85



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

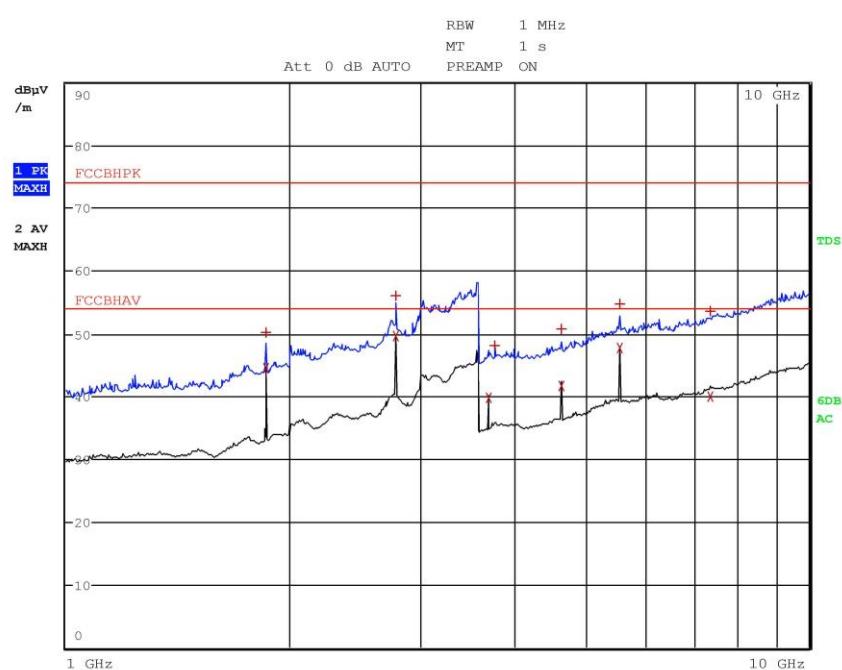
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110430

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110430
Test Spec

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
2	1.855600000 GHz	44.53	Average	-9.45
1	1.855600000 GHz	50.14	Max Peak	-23.84
1	2.783200000 GHz	56.06	Max Peak	-17.92
2	2.783200000 GHz	49.72	Average	-4.26
2	3.711200000 GHz	39.86	Average	-14.12
1	3.769200000 GHz	48.03	Max Peak	-25.95
1	4.638800000 GHz	50.79	Max Peak	-23.19
2	4.638800000 GHz	41.62	Average	-12.36
2	5.566400000 GHz	47.67	Average	-6.31
1	5.566400000 GHz	54.78	Max Peak	-19.20
2	7.357600000 GHz	39.98	Average	-14.00
1	7.363600000 GHz	53.66	Max Peak	-20.32

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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

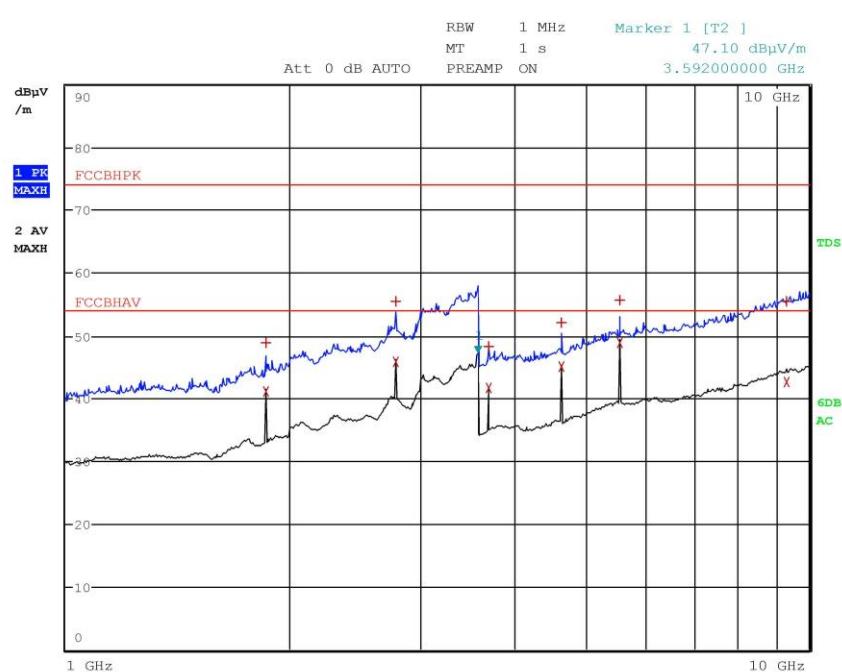
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110431

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110431
Test Spec

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
2	1.855600000 GHz	41.17	Average	-12.81
1	1.855600000 GHz	48.93	Max Peak	-25.05
1	2.783200000 GHz	55.47	Max Peak	-18.51
2	2.783200000 GHz	45.89	Average	-8.09
2	3.710800000 GHz	41.62	Average	-12.36
1	3.710800000 GHz	48.31	Max Peak	-25.67
1	4.638800000 GHz	52.00	Max Peak	-21.98
2	4.638800000 GHz	45.05	Average	-8.93
2	5.566400000 GHz	48.94	Average	-5.04
1	5.566400000 GHz	55.64	Max Peak	-18.34
1	9.313200000 GHz	55.54	Max Peak	-18.44
2	9.319600000 GHz	42.73	Average	-11.25

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Meas Type Emission

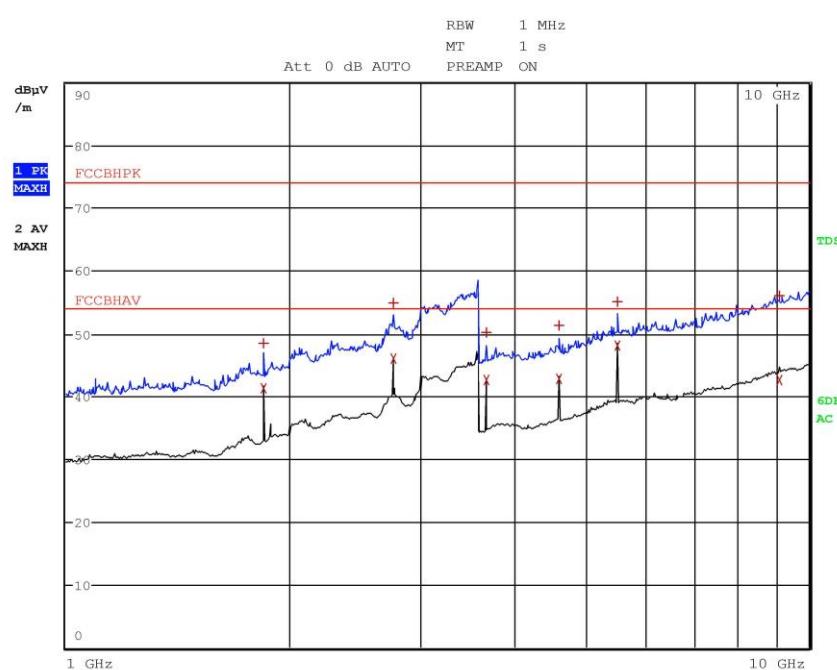
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110432

Test Spec



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110432

Test Spec

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	1.842000000 GHz	48.55	Max Peak	-25.43
2	1.842000000 GHz	41.34	Average	-12.64
2	2.762800000 GHz	45.98	Average	-8.00
1	2.763200000 GHz	54.98	Max Peak	-19.00
1	3.684000000 GHz	50.12	Max Peak	-23.86
2	3.684000000 GHz	42.62	Average	-11.36
2	4.605200000 GHz	42.77	Average	-11.21
1	4.605200000 GHz	51.42	Max Peak	-22.56
1	5.526000000 GHz	55.11	Max Peak	-18.87
2	5.526000000 GHz	48.21	Average	-5.77
1	9.110000000 GHz	56.07	Max Peak	-17.91
2	9.116400000 GHz	42.58	Average	-11.40



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L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

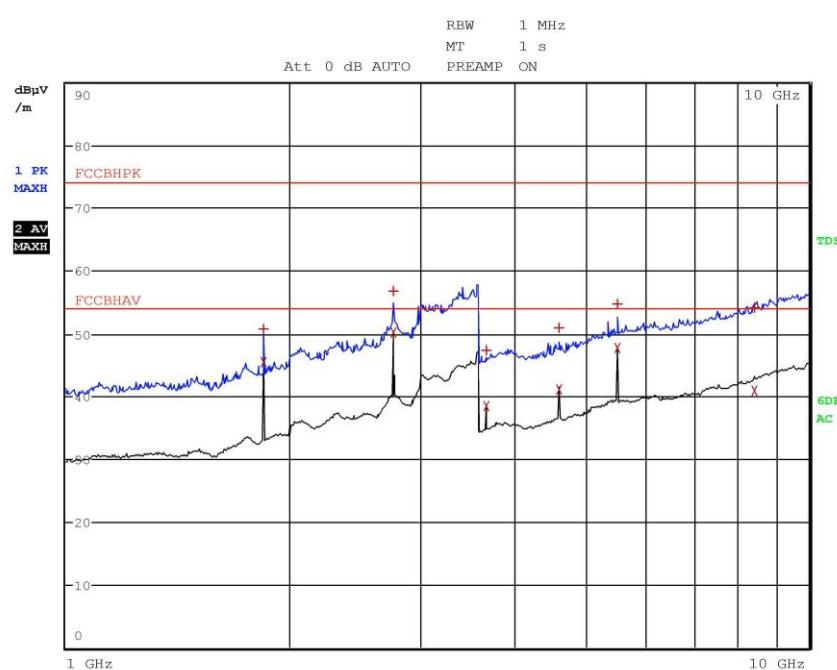
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110433

Test Spec



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110433
Test Spec

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	1.842000000 GHz	50.68	Max Peak	-23.30
2	1.842000000 GHz	45.50	Average	-8.48
1	2.762800000 GHz	56.85	Max Peak	-17.13
2	2.762800000 GHz	50.11	Average	-3.87
1	3.683600000 GHz	47.43	Max Peak	-26.55
2	3.684000000 GHz	38.55	Average	-15.43
1	4.604800000 GHz	50.91	Max Peak	-23.07
2	4.605200000 GHz	41.12	Average	-12.86
1	5.526000000 GHz	54.83	Max Peak	-19.15
2	5.526000000 GHz	47.67	Average	-6.31
2	8.437200000 GHz	41.02	Average	-12.96
1	8.445600000 GHz	54.26	Max Peak	-19.72

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LAB N° 0168

Meas Type Emission

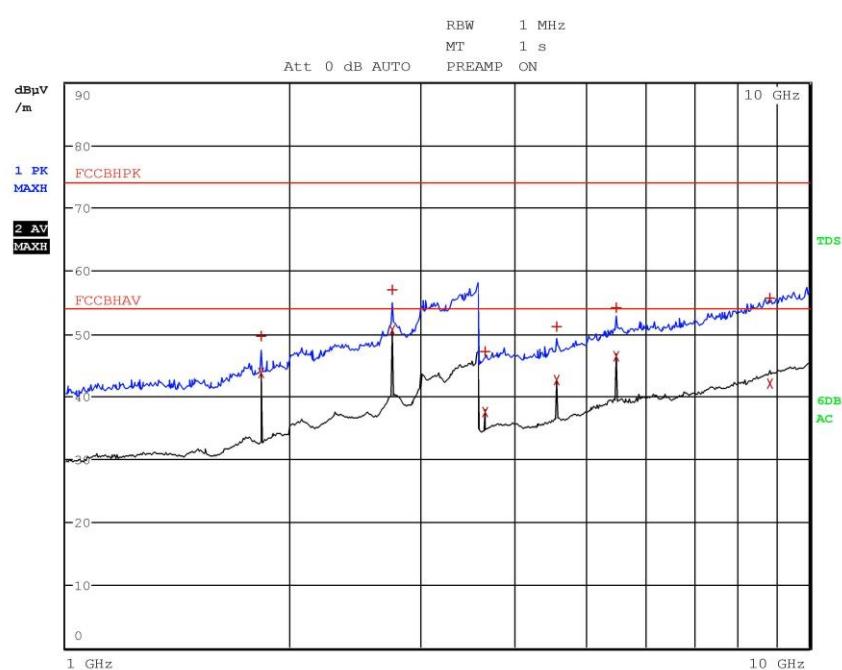
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110434

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110434
Test Spec

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	1.830000000 GHz	49.68	Max Peak	-24.30
2	1.830000000 GHz	43.81	Average	-10.17
1	2.745200000 GHz	57.04	Max Peak	-16.94
2	2.745200000 GHz	50.67	Average	-3.31
2	3.660400000 GHz	37.46	Average	-16.52
1	3.670800000 GHz	47.15	Max Peak	-26.83
2	4.575200000 GHz	42.56	Average	-11.42
1	4.575200000 GHz	51.10	Max Peak	-22.88
2	5.490400000 GHz	46.46	Average	-7.52
1	5.490400000 GHz	54.23	Max Peak	-19.75
2	8.837200000 GHz	42.14	Average	-11.84
1	8.868400000 GHz	55.74	Max Peak	-18.24

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LAB N° 0168

Meas Type Emission

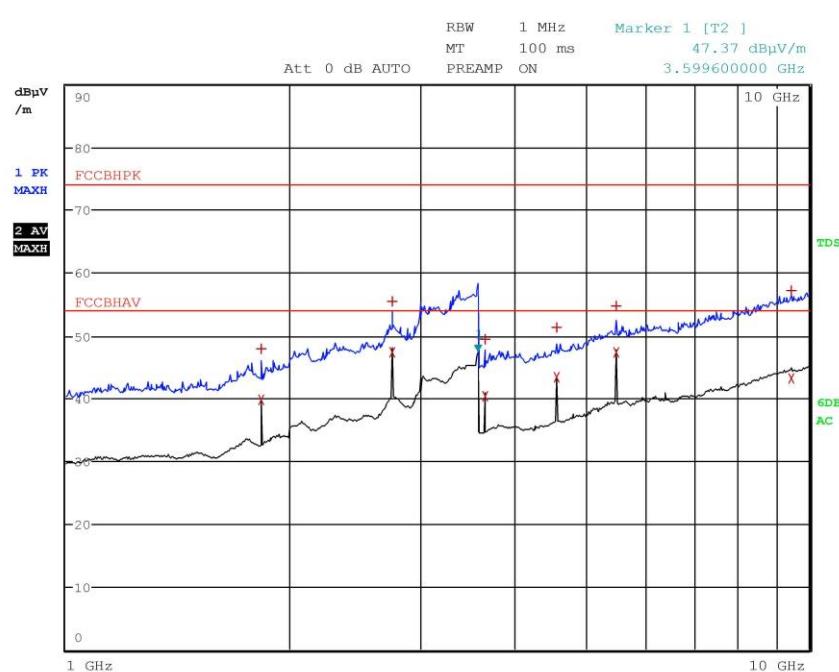
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110435

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110435
Test Spec

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 12

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
2	1.830000000 GHz	39.71	Average	-14.27
1	1.830000000 GHz	48.00	Max Peak	-25.98
2	2.745200000 GHz	47.28	Average	-6.70
1	2.745200000 GHz	55.47	Max Peak	-18.51
2	3.660400000 GHz	40.28	Average	-13.70
1	3.660400000 GHz	49.37	Max Peak	-24.61
1	4.575200000 GHz	51.42	Max Peak	-22.56
2	4.575200000 GHz	43.48	Average	-10.50
1	5.490400000 GHz	54.65	Max Peak	-19.33
2	5.490400000 GHz	47.33	Average	-6.65
1	9.468000000 GHz	57.17	Max Peak	-16.81
2	9.476800000 GHz	43.21	Average	-10.77

Result: The requirements are met



11.3 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209 and Part 15.249
- 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 (%)
21	100	42

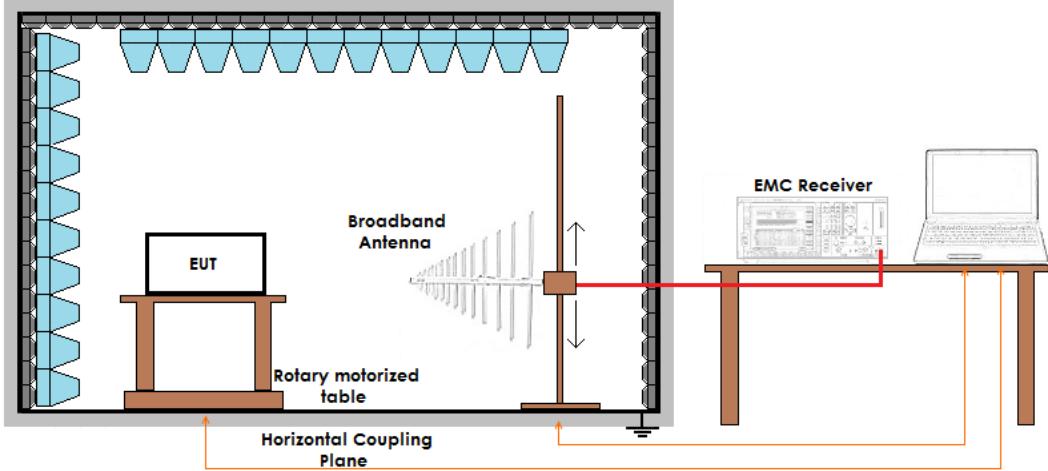
Acceptance limits

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

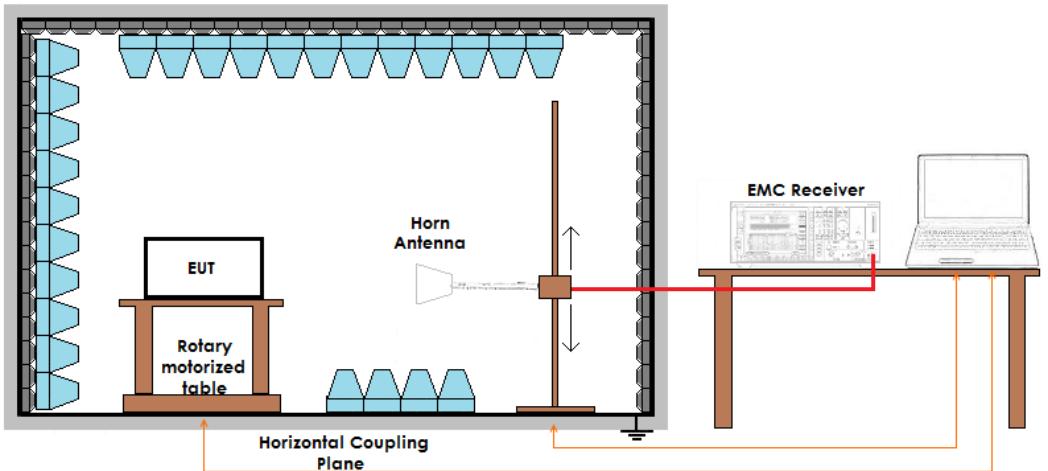
Frequency range (MHz)	RF Power Output dB(µV/m)
2400 – 2483,5	94

Setup

Frequency \leq 1 GHz



Frequency $>$ 1 GHz





Result

Frequency (MHz)	Polarization	Graphs	Measured QP level (dB μ V/m)	Peak Output Power (mW)
915,054808	Horizontal	G17110414	93,30	0,641
915,048295	Vertical	G17110419	77,94	0,019
920,994000	Vertical	G17110420	77,91	0,019
921,001500	Horizontal	G17110421	93,22	0,630
927,751500	Horizontal	G17110424	92,67	0,555
927,746154	Vertical	G17110429	77,70	0,018

Remarks

$$P = (E \times d)^2 / (30 \times G)$$

Where:

E = the measured maximum fundamental field strength in V/m

G = the numeric gain of the transmitting antenna: 1 (0 dB)

d = the distance in meters from which the field strength was measured (3 m)

P = the power in watts



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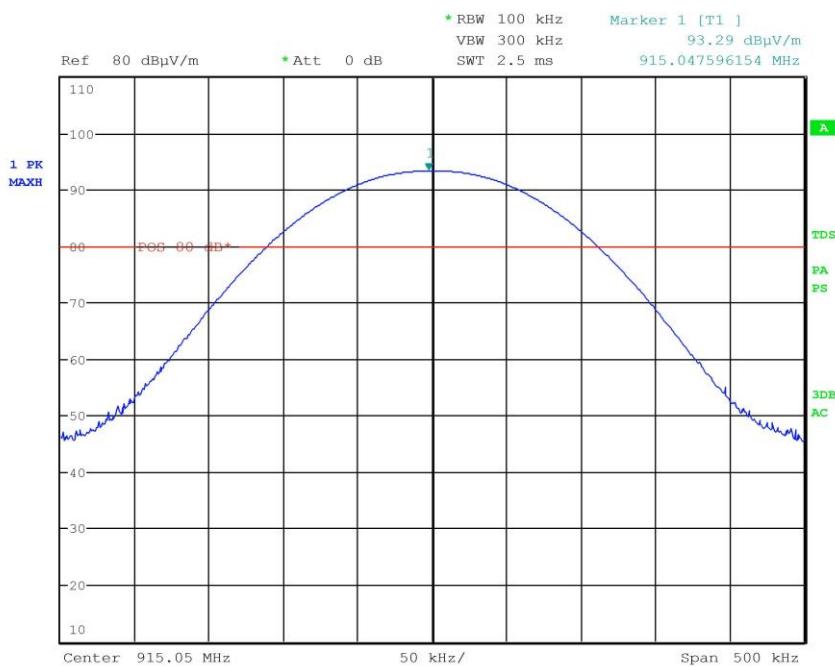


ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Graphs

Meas Type Emission
Equipment under Test
Manufacturer
OP Condition
Operator Gandini 17110414
Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

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Meas Type Emission

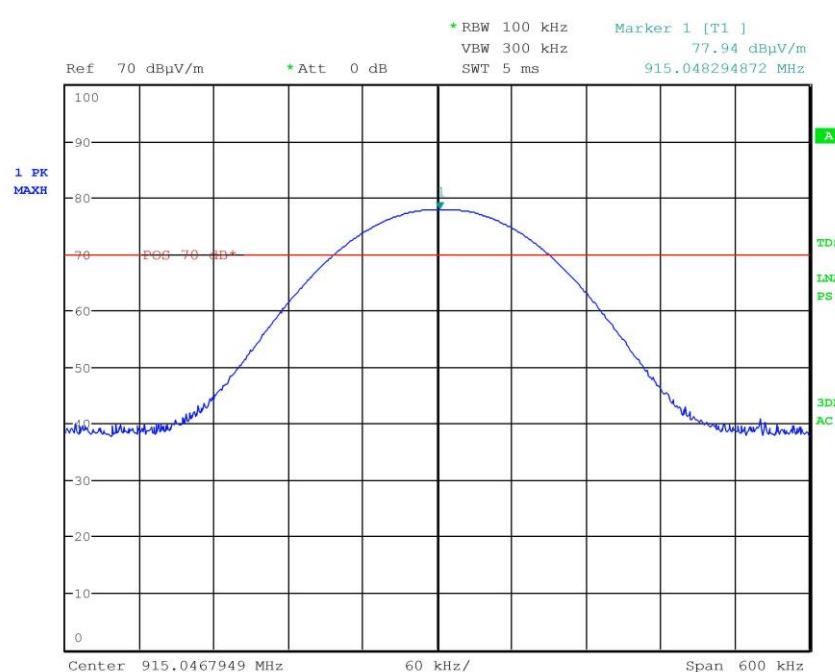
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110419

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

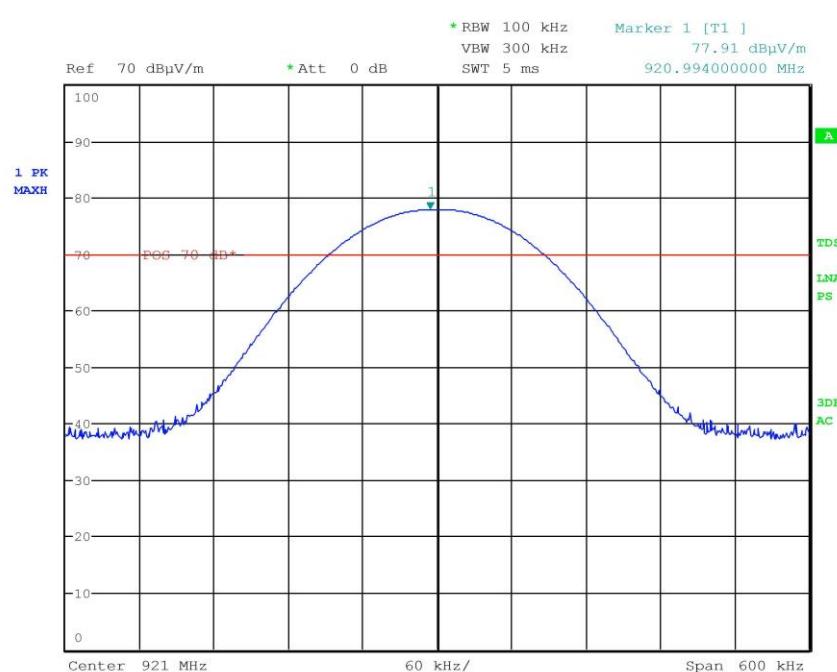
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110420

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

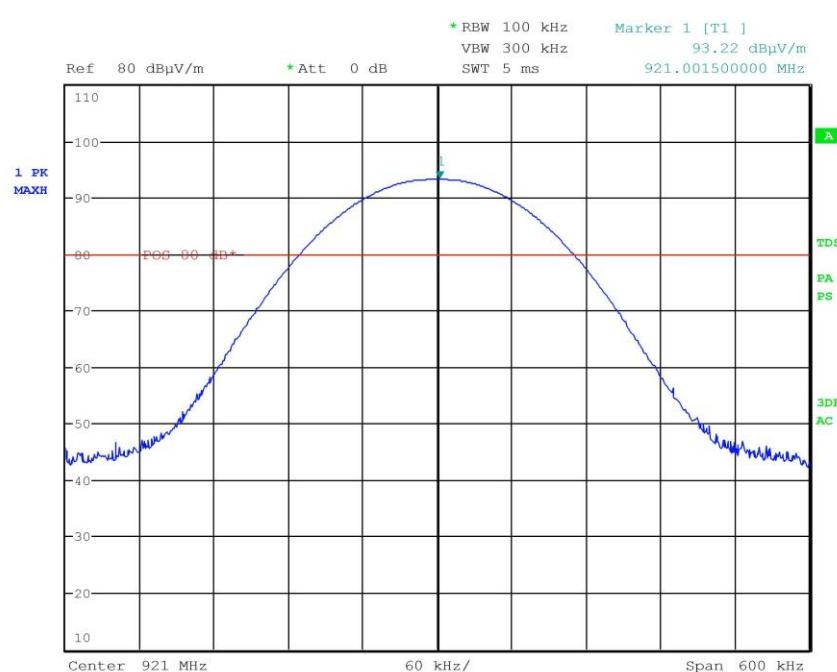
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110421

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

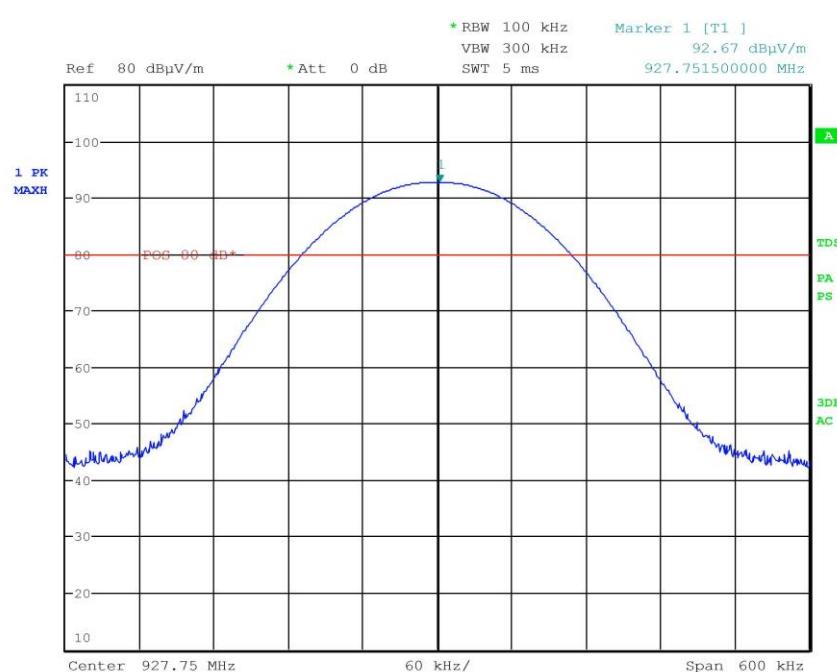
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110424

Test Spec





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Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

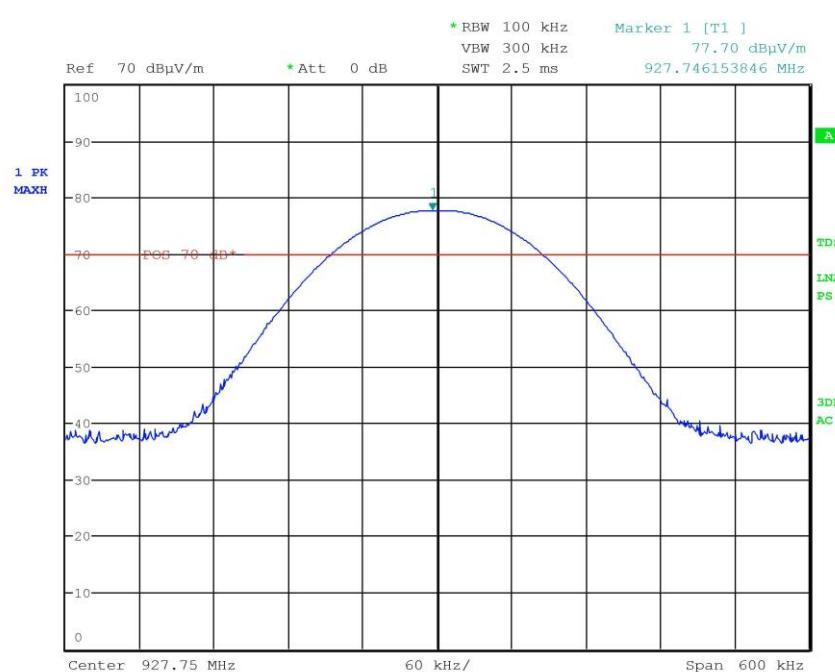
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110429

Test Spec



Result: The requirements are met



11.4 Band edge

Test set-up and execution

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

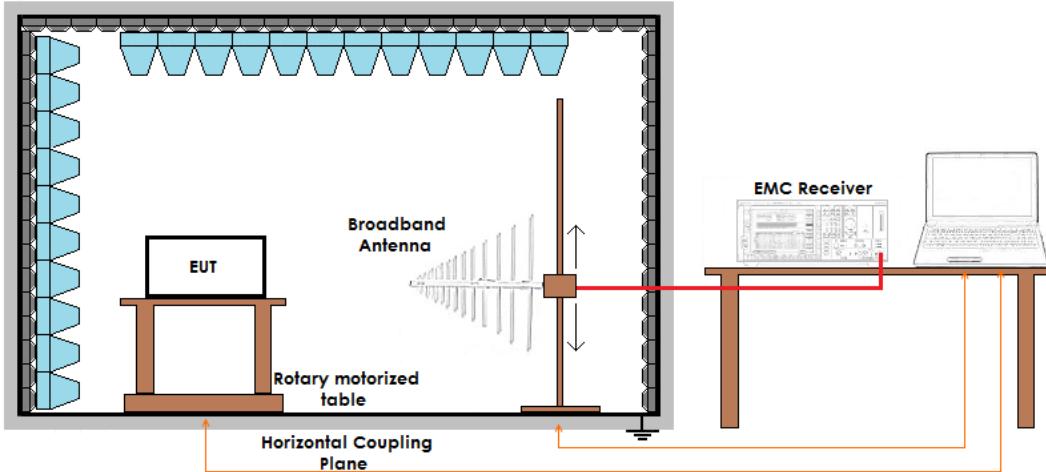
Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

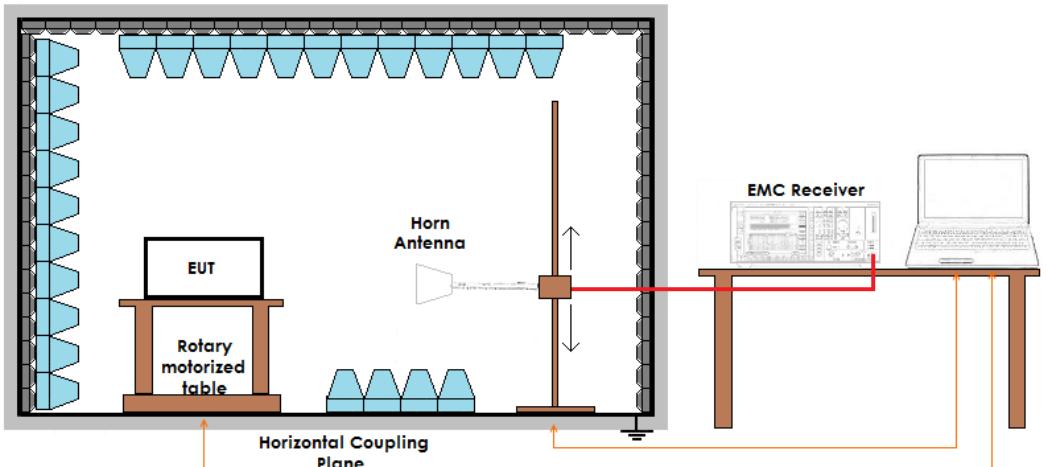
Acceptance limits: operation within the band 902 – 928 MHz

Setup

Frequency ≤ 1 GHz



Frequency > 1 GHz



Result

Frequency (MHz)	Graph(s)	Results	
915,05	G17110417	$F_L: 914,809\,294$ MHz	Complies
	G17110418		
927,75	G17110427	$F_H: 927,982\,371$ MHz	Complies
	G17110428		



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Graphs

Meas Type Emission

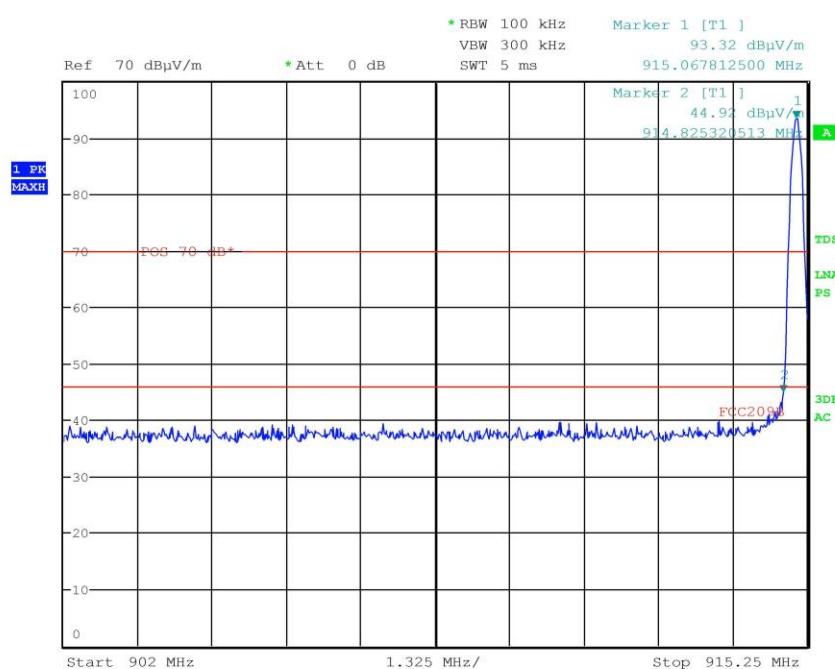
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110417

Test Spec





CMC
Centro Misure Compatibilità S.r.l.
Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

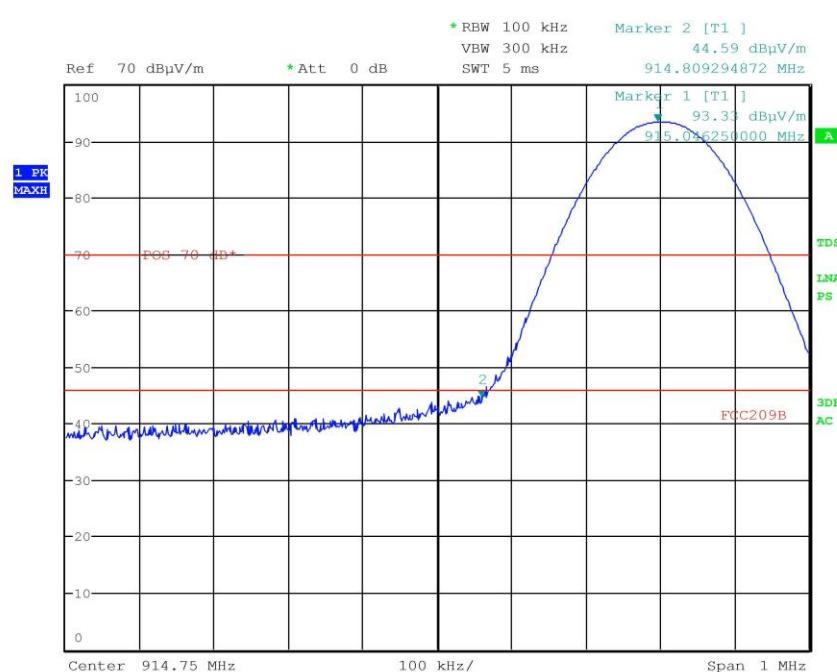
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110418

Test Spec



CMC Centro Misure Compatibilità S.r.l.



CMC
Centro Misure Compatibilità S.r.l.
Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

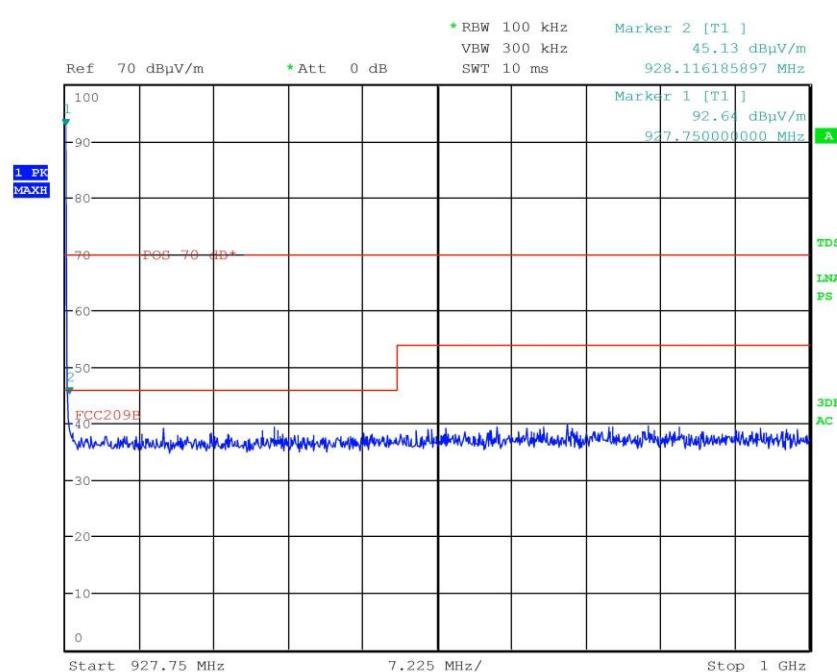
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110427

Test Spec



CMC Centro Misure Compatibilità S.r.l.



CMC
Centro Misure Compatibilità S.r.l.
Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

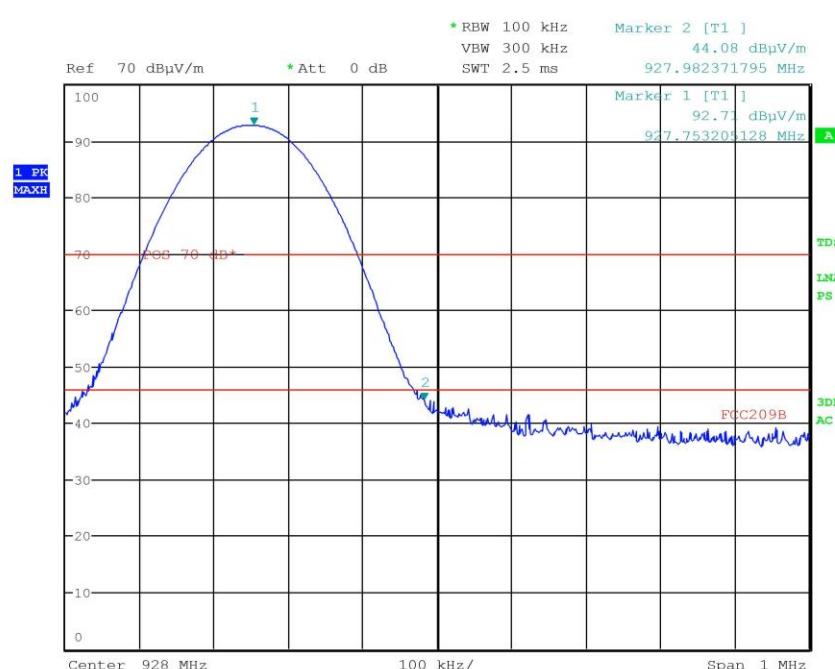
Equipment under Test

Manufacturer

OP Condition

Operator Gandini 17110428

Test Spec



Result: The requirements are met



11.5 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- 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

Frequency range: 0.009 MHz – 10000 MHz

Antenna polarization: Horizontal (H) – Vertical (V)

10 m for frequencies ≤ 30 MHz

3 m for frequencies > 30 MHz

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

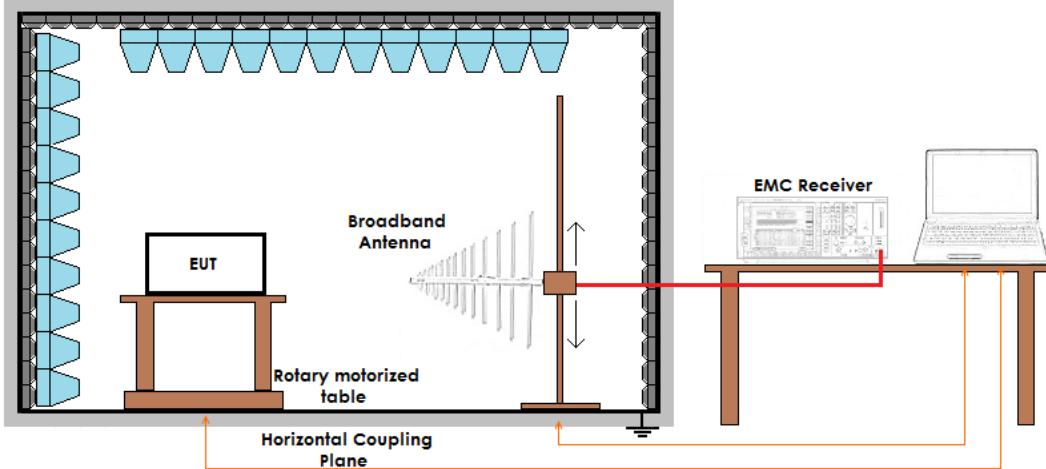
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	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

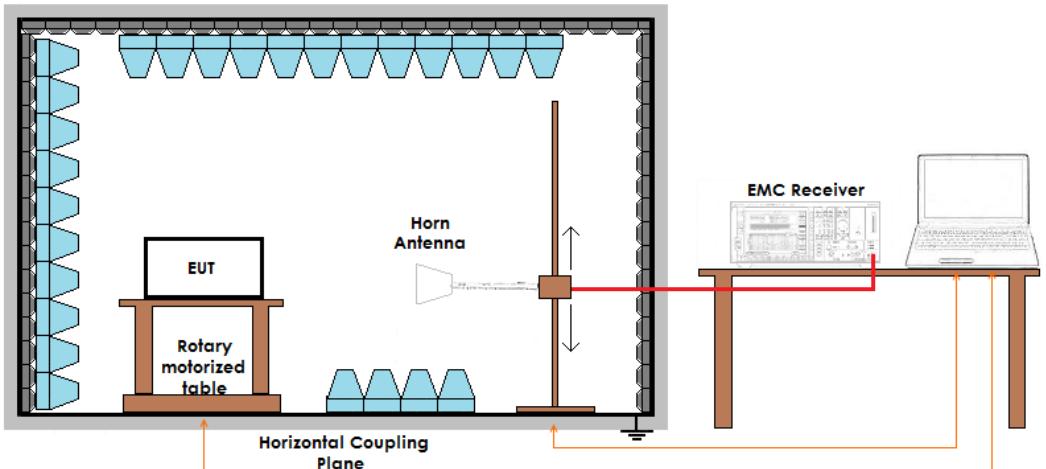
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Setup

Frequency \leq 1 GHz



Frequency $>$ 1 GHz





Result – AV detector

Harmonic	Lowest channel Level (dB μ V/m)	Medium channel Level (dB μ V/m)	Highest channel Level (dB μ V/m)	Results
	Limits (dB μ V/m)	Limits (dB μ V/m)	Limits (dB μ V/m)	
II	43,81	54,00	45,50	54,00
III	50,67	54,00	50,11	54,00
IV	40,28	54,00	42,62	54,00
V	43,48	54,00	42,77	54,00
VI	47,33	54,00	48,21	54,00
VII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00
VIII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00
IX	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00
X	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. No spurious other then harmonics have been found. The results have been extrapolated to the specified distance using an extrapolation factor. For all harmonics it was considered the limit of 54 dB μ V/m as a worse case.

Result – Peak detector

Harmonic	Lowest channel Level (dB μ V/m)	Medium channel Level (dB μ V/m)	Highest channel Level (dB μ V/m)	Results
	Limits (dB μ V/m)	Limits (dB μ V/m)	Limits (dB μ V/m)	
II	49,68	74,00	50,68	74,00
III	57,04	74,00	56,85	74,00
IV	49,37	74,00	50,12	74,00
V	51,42	74,00	51,42	74,00
VI	54,65	74,00	55,11	74,00
VII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00
VIII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00
IX	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00
X	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. No spurious other then harmonics have been found. The results have been extrapolated to the specified distance using an extrapolation factor. For all harmonics it was considered the limit of 74 dB μ V/m as a worse case.

Result: The requirements are met