



TEST REPORT
Nr. R21023301

Federal Communication Commission (FCC)

Report Reference No.	R21023301
Date of issue:	02.04.2021
Total number pages:	107
Applicant's name	Imet S.r.l.
Address	Via Ronche, 93 – 33077 Sacile (PN) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2019 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247
Non-standard test method	N/A
Test Report Form No.	15-247_DTSCMC
Test Report Form(s) Originator ..	CMC Centro Misure Compatibilità S.r.l.
Master TRF	2021-02
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of CMC Centro Misure Compatibilità S.r.l.	
Test item description	2,4 GHz RF Transceiver module
Trademark	Imet
Manufacturer	Imet S.r.l.
Model / Type reference	B034
FCC ID	2AYRTB034
Rating(s)	3,7 Vdc from battery
Report	
Tested by (name + signature)	G. Gandini 
Approved by (name + signature)	R. Beghetto 

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2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2019	--
3 List of attachments	
Attachment 1: Instruments list, measurement uncertainty, judgement of compliance and quality manual references	
4 Deviation(s) from test specification	
None	
5 Testing location	
CMC Centro Misure Compatibilità S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

Revision index	Date	Change history
1.0	02.04.2021	--

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Testing and sampling:	
Date of receipt of test item	02.02.2021
Testing start date	03.02.2021
Testing end date	26.03.2021
Sampling procedure.....	Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion. The results relate to the sample as it has been received.
Internal identification	Adhesive label with the product number P210119
General remarks:	
<p>This 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 object tested. “(see appended table)”: refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.</p>	
Possible test case verdicts:	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object does not performed:	N/E (Not Executed)
Definition of symbols used in this test report:	
<input checked="" type="checkbox"/> Indicates that the listed condition, standard or equipment is applicable for this report. <input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.	

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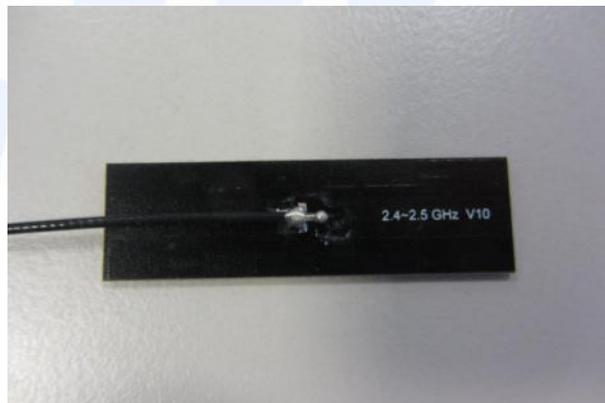
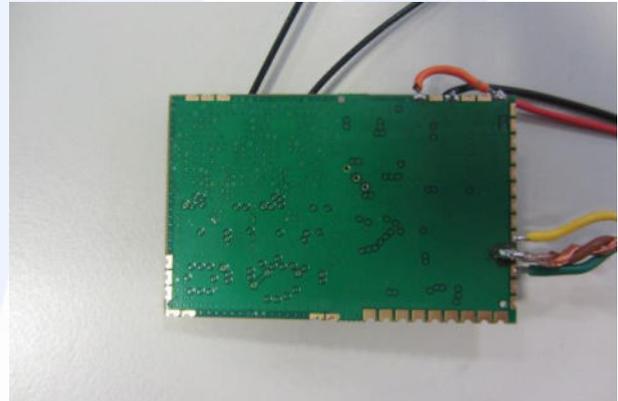
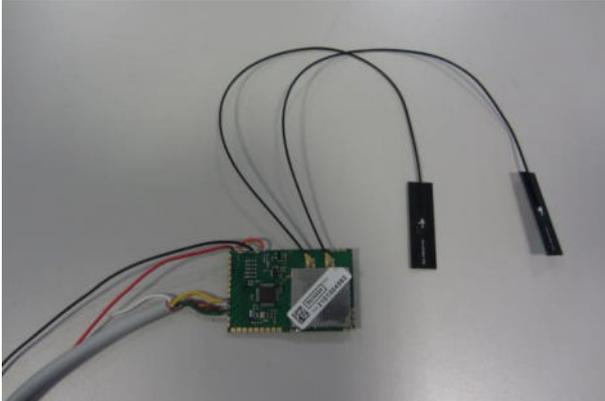


6 General description of tested item and testing condition(s)

Description	2,4 GHz RF Transceiver module							
Model Number	B034							
FCC ID	2AYRTB034							
Serial Number	--							
Brand name	Imet							
Frequency band	2400 – 2483,5 MHz							
Nominal frequencies	F _L : 2404 MHz		F _M : 2440 MHz		F _H : 2479 MHz			
Test power supply	Voltage and Frequency			Reference poles				
				N	L1	L2	L3	PE
	<input type="checkbox"/>	AC:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	DC: 3,7 V from battery					<input type="checkbox"/>	
Test configuration	<input type="checkbox"/>	Table top equipment						
	<input type="checkbox"/>	Floor standing equipment						
	<input type="checkbox"/>	Hand-held equipment						
	<input checked="" type="checkbox"/>	Module						
Type of equipment	<input checked="" type="checkbox"/>	Transmitter unit						
	<input checked="" type="checkbox"/>	Receiver unit						
Type of station	<input type="checkbox"/>	Portable station						
	<input checked="" type="checkbox"/>	Mobile station						
Operating modes	No.	Operating mode of test item						
	1	EUT in continuous transmission at maximum power						



6.1 Photos of the test item





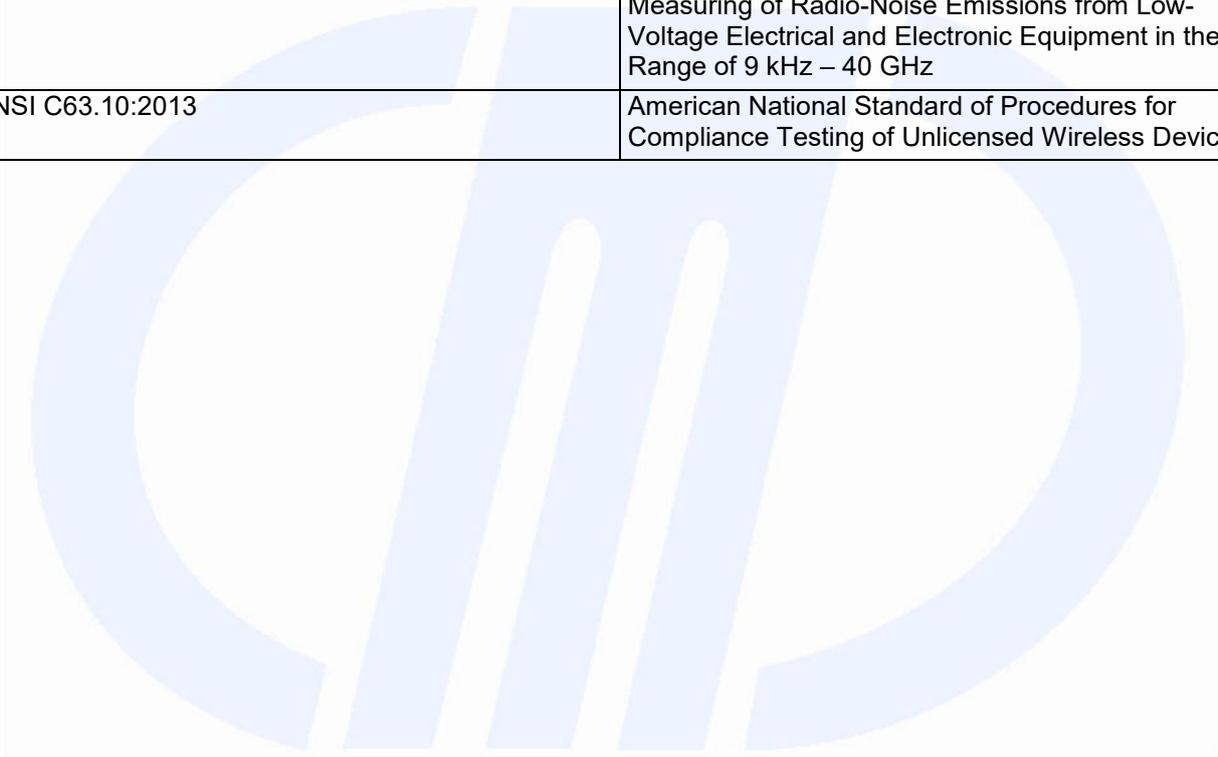
7 Verdict summary section

FCC Rules & Regulations, Title 47:2019			
Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.203	Antenna requirements	--	P
Part 15.207	Conducted emissions	ANSI C63.10	N/A (+)
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	ANSI C63.10	P
Part 15.247 (a) (2)	DTS bandwidth	ANSI C63.10	P
Part 15.215 (c)	20 dB bandwidth	ANSI C63.10	P
Part 15.247 (d)	Band edge	ANSI C63.10	P
Part 15.209 and 15.247	Fundamental emission output power	ANSI C63.10	P
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	ANSI C63.10	P

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



Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2019	--
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules
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

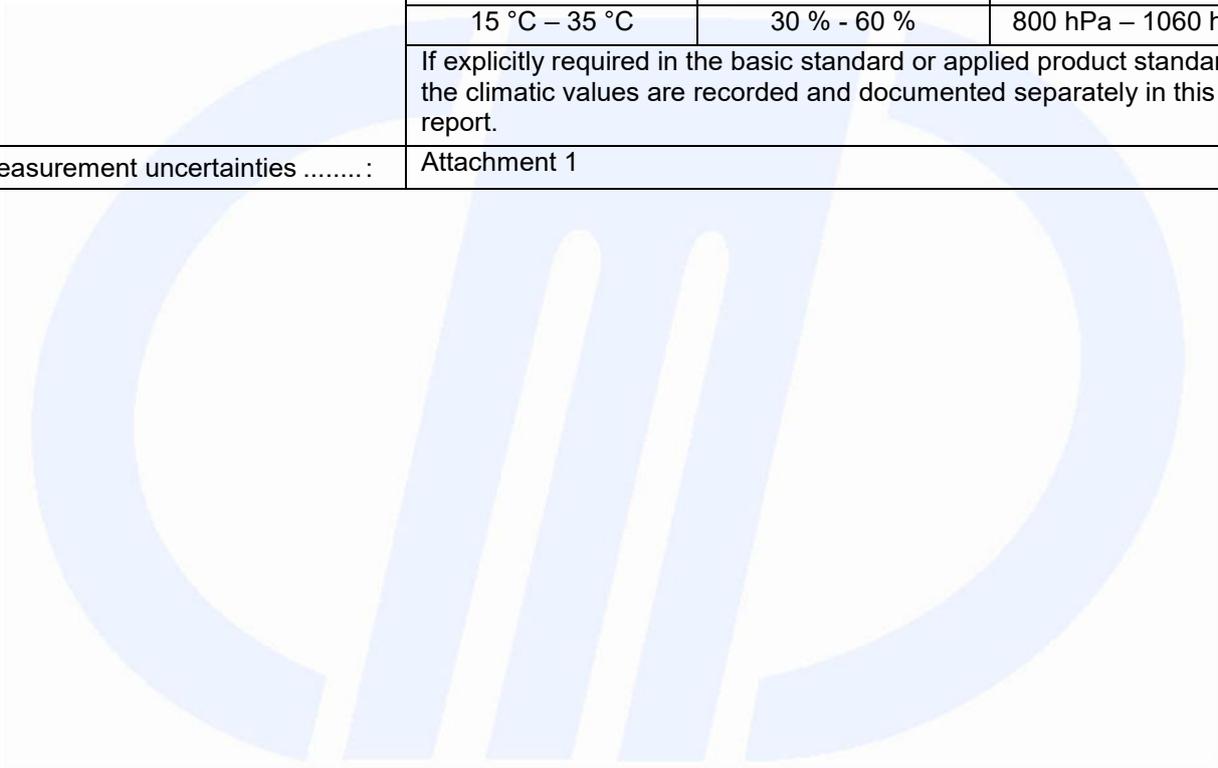




8 Test conditions

8.1 General

Environmental reference conditions.....:	The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.		
	The climatic conditions during the tests were within the following limits:		
	Temperature	Humidity	Atmospheric pressure
	15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa
	If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.		
Measurement uncertainties	Attachment 1		





9 Test results

9.1 Antenna requirements

Tested by	G. Gandini	
Test date	02.02.2021	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	<p>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, 15.221, or § 15.236. 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</p>	
Antenna type.....	<input type="checkbox"/>	Integral antenna
	<input type="checkbox"/>	External antenna
	<input checked="" type="checkbox"/>	Dedicated antenna
Antenna gain.....	2 dBi	
External R.F. power amplifier	Not Present	



9.2 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	G. Gandini	
Test date	03.02.2021	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.209 ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Test set-up description	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description	--	
Test method applied	SAC with measurement distance [m]: 10	
Supplementary information.....	--	

Acceptance limits

Acceptance limits for emissions in restricted frequency bands ($f < 1000$ MHz)		
Frequency range (MHz)	Test distance (m)	Limits [dB(μ V/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
960 to 1000	3	54

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 and 110–490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

Acceptance limits for emissions in restricted frequency bands ($f \geq 1000$ MHz)			
Frequency (MHz)	Test distance (m)	AV limits [dB(μ V/m)]	Peak limits [dB(μ V/m)]
> 1000	3	54	74



The restricted frequency bands are listed in the following table

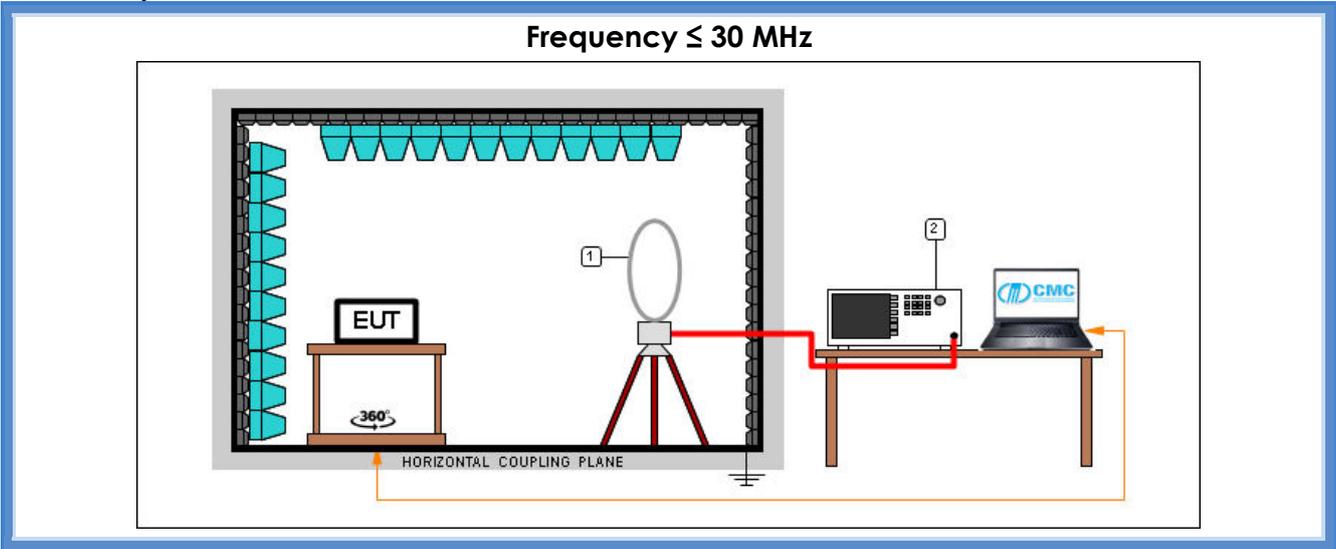
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	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 (according to ANSI C63.10 cl. 11.11.1)

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

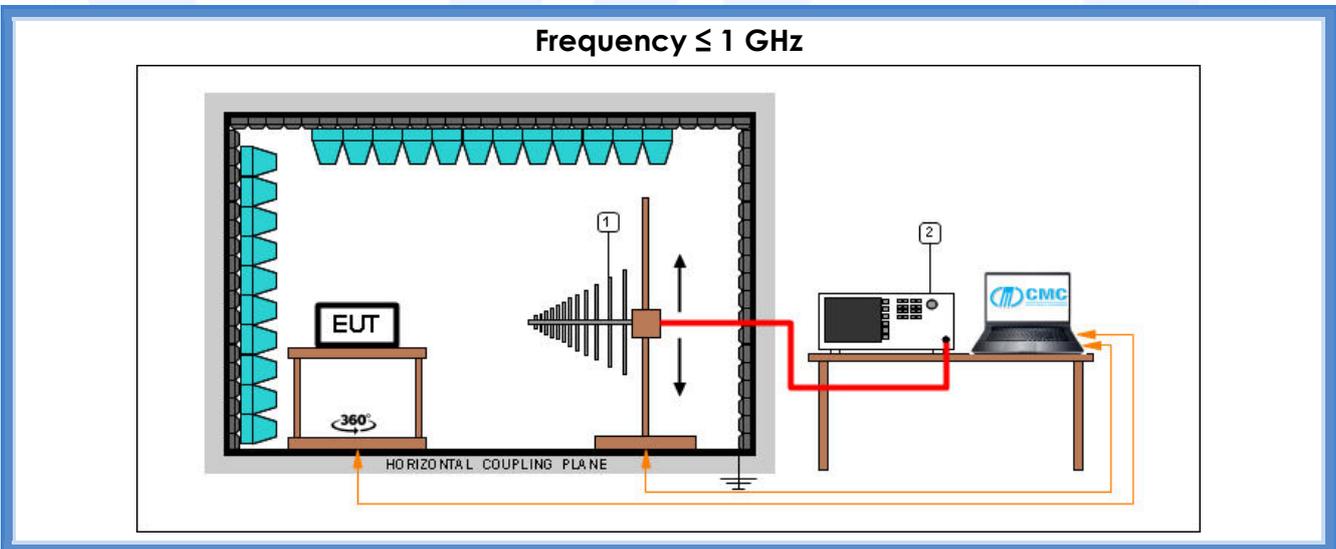
- If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz
- If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.
- In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
2	CMC S164	Rohde & Schwarz	ESU26	EMC receiver
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz

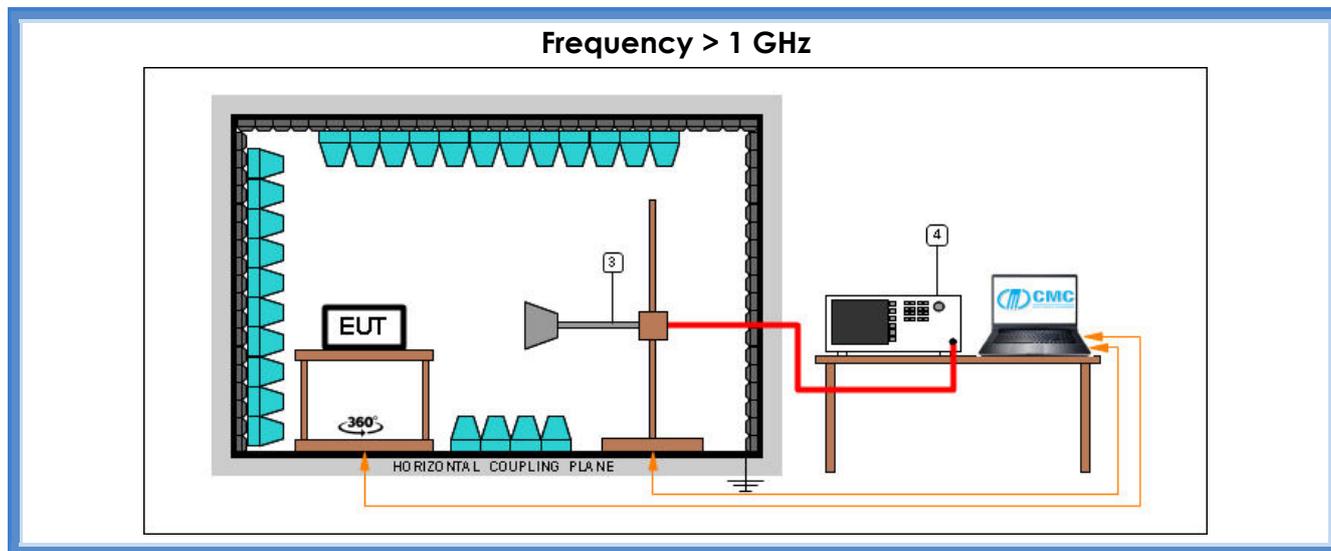


Test setup PE004_02

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
2	CMC S164	Rohde & Schwarz	ESU26	EMC receiver
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Broadband Antenna

Test setup PE004_03

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
2	CMC S164	Rohde & Schwarz	ESU26	EMC receiver
1	CMC S287	Schwarzbeck	VUSLP 9111B	Broadband Antenna



Test setup PE004_04

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
4	CMC S164	Rohde & Schwarz	ESU26	EMC receiver
3	CMC S108	Emco	3115	Waveguide antenna

Test setup PE004_05

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
4	CMC S164	Rohde & Schwarz	ESU26	EMC receiver
3	CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)



Result

Chip A

Transmission frequency (MHz)	Polarization	Frequency Range (MHz)	Graphs	Result
Worst case	V	300 – 1000	G21023306	P
Worst case	H	300 – 1000	G21023307	P
Worst case	H	30 – 300	G21023312	P
Worst case	V	30 – 300	G21023313	P
Worst case	Loop	0,009 – 30	G21023314	P
2404	V	3000 – 18000	G21023316	P
2404	H	3000 – 18000	G21023317	P
2440	H	3000 – 18000	G21023318	P
2440	V	3000 – 18000	G21023319	P
2479	V	3000 – 18000	G21023320	P
2479	H	3000 – 18000	G21023321	P
2404	V	1000 – 3000	G21023322	P
2404	H	1000 – 3000	G21023323	P
2440	H	1000 – 3000	G21023325	P
2440	V	1000 – 3000	G21023326	P
2479	V	1000 – 3000	G21023327	P
2479	H	1000 – 3000	G21023328	P
2404	V	18000 – 26000	G21023352	P
2404	H	18000 – 26000	G21023353	P
2440	H	18000 – 26000	G21023354	P
2440	V	18000 – 26000	G21023355	P
2479	V	18000 – 26000	G21023356	P
2479	H	18000 – 26000	G21023357	P

Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels.

Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $20\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies



Chip B

Transmission frequency (MHz)	Polarization	Frequency Range (MHz)	Graphs	Result
Worst case	H	300 – 1000	G21023308	P
Worst case	V	300 – 1000	G21023309	P
Worst case	V	30 – 300	G21023310	P
Worst case	H	30 – 300	G21023311	P
Worst case	Loop	0,009 – 30	G21023315	P
2404	V	1000 – 3000	G21023332	P
2404	H	1000 – 3000	G21023333	P
2440	H	1000 – 3000	G21023334	P
2440	V	1000 – 3000	G21023335	P
2479	V	1000 – 3000	G21023336	P
2479	H	1000 – 3000	G21023337	P
2404	V	3000 – 18000	G21023340	P
2404	H	3000 – 18000	G21023341	P
2440	H	3000 – 18000	G21023342	P
2440	V	3000 – 18000	G21023343	P
2479	V	3000 – 18000	G21023344	P
2479	H	3000 – 18000	G21023345	P
2404	H	18000 – 26000	G21023346	P
2404	V	18000 – 26000	G21023347	P
2440	V	18000 – 26000	G21023348	P
2440	H	18000 – 26000	G21023349	P
2479	H	18000 – 26000	G21023350	P
2479	V	18000 – 26000	G21023351	P

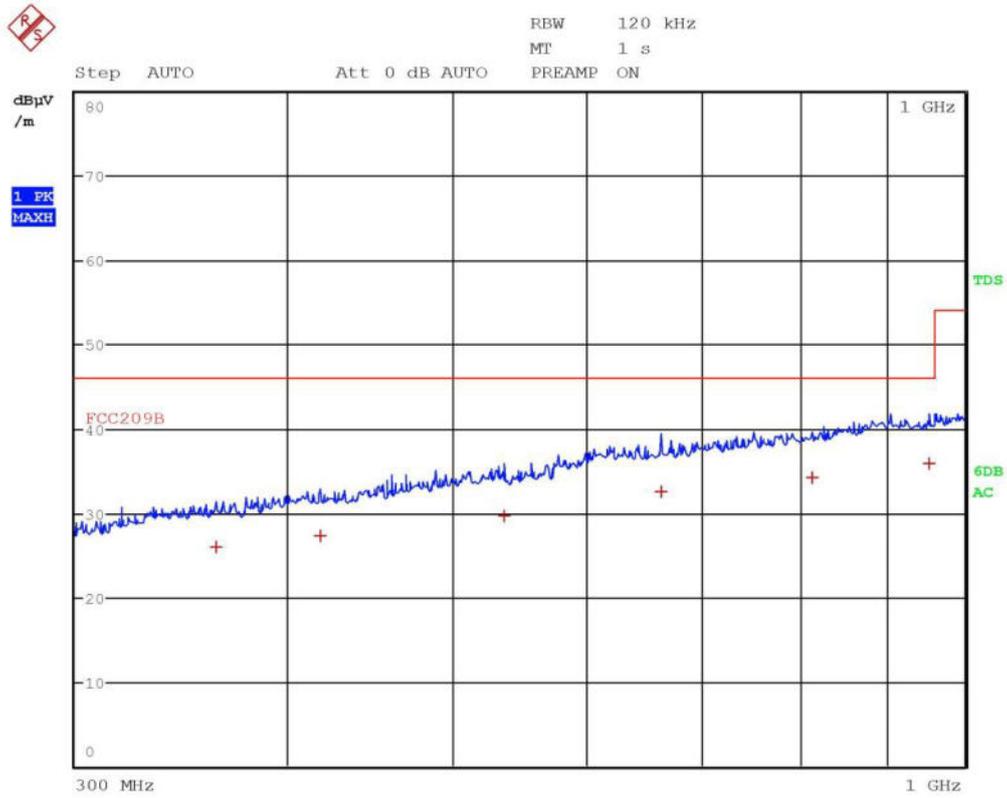
Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided by the standard. Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $20\log(\text{test distance}/10)$ based on the measuring distance provided by the standard. Peaks above the limits are caused by the nominal transmitting frequencies

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



Graphs

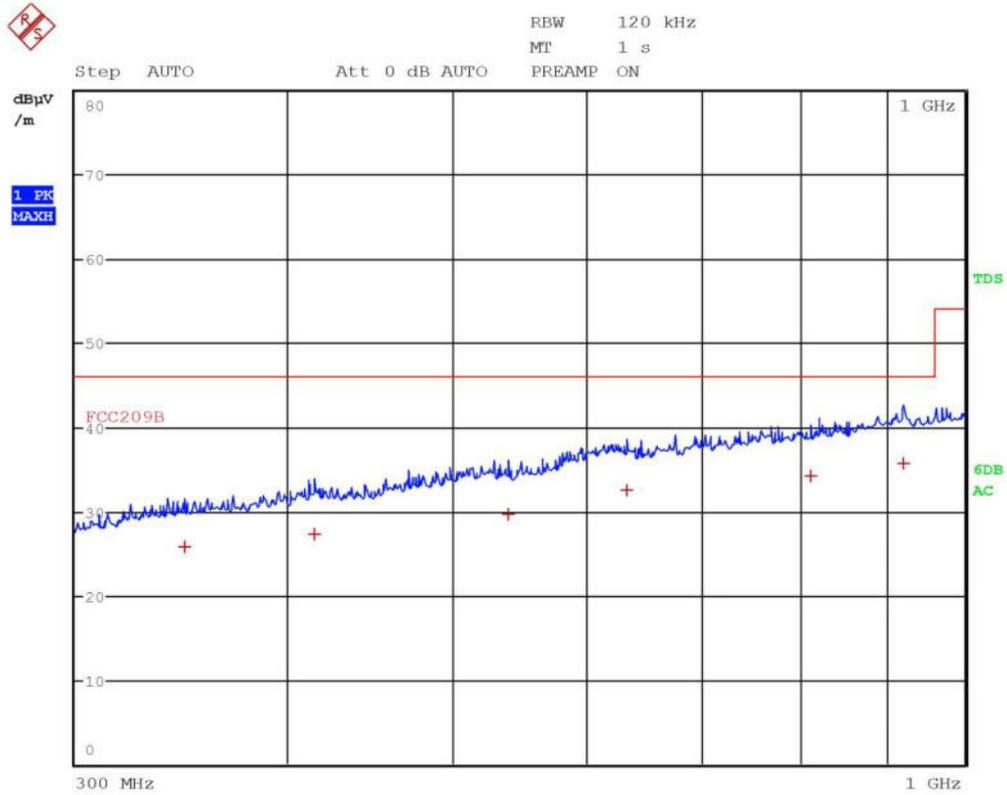


Gandini 21023306



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB μ V/m	DELTA LIMIT dB
1 Quasi Peak	363.36 MHz	25.92	-20.09
1 Quasi Peak	418.4 MHz	27.32	-18.69
1 Quasi Peak	536.24 MHz	29.74	-16.27
1 Quasi Peak	663.6 MHz	32.43	-13.58
1 Quasi Peak	813.32 MHz	34.16	-11.85
1 Quasi Peak	952 MHz	35.80	-10.21

Gandini 21023306



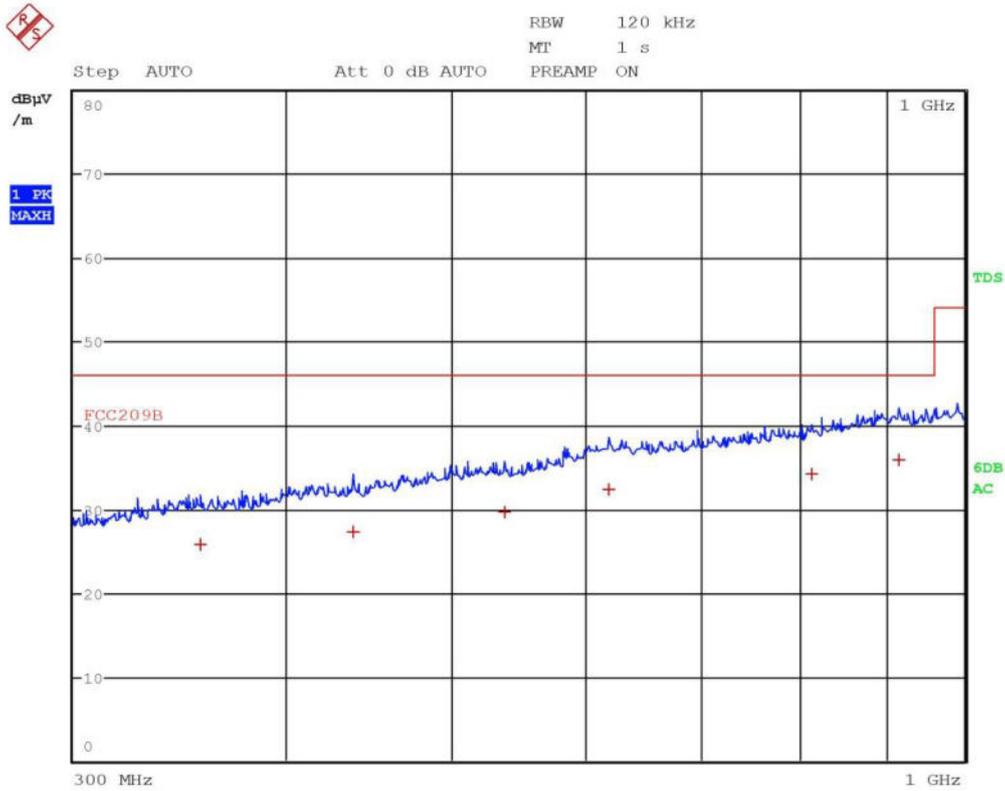
Gandini 21023307

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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	348.32 MHz	25.78	-20.23
1 Quasi Peak	415.04 MHz	27.30	-18.71
1 Quasi Peak	539 MHz	29.61	-16.40
1 Quasi Peak	633.48 MHz	32.45	-13.56
1 Quasi Peak	812.04 MHz	34.14	-11.87
1 Quasi Peak	919.68 MHz	35.77	-10.24

Gandini 21023307



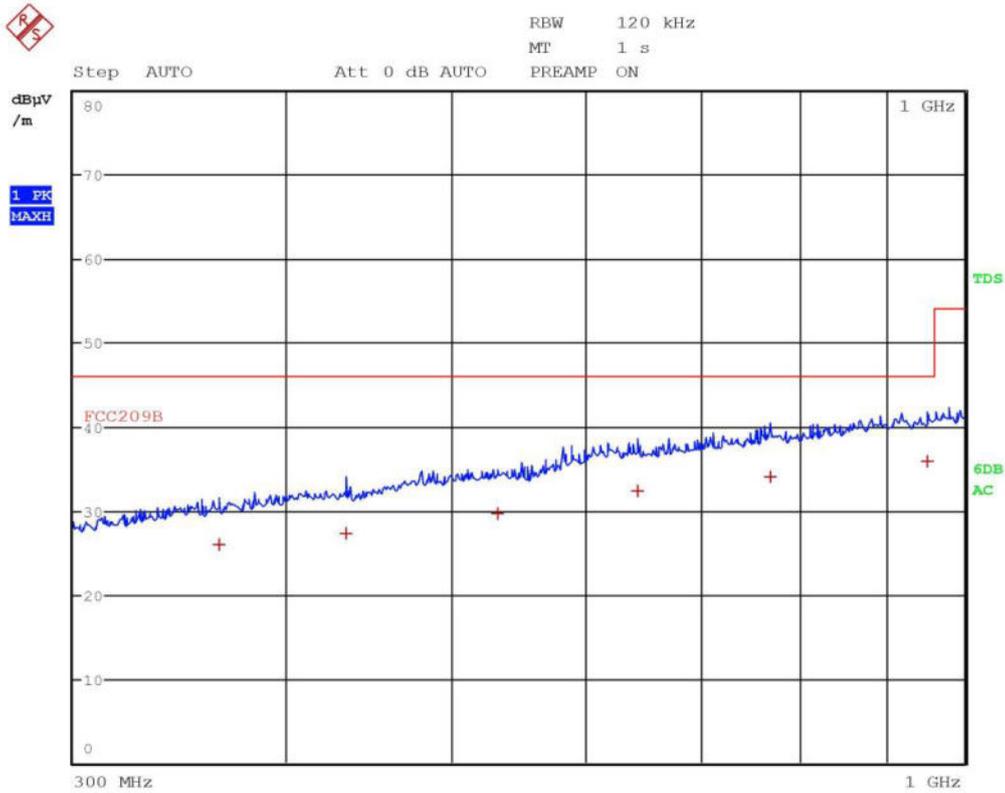
Gandini 21023308

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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	356.48 MHz	25.87	-20.14
1 Quasi Peak	437.72 MHz	27.34	-18.67
1 Quasi Peak	537.64 MHz	29.59	-16.42
1 Quasi Peak	618.36 MHz	32.37	-13.64
1 Quasi Peak	813.2 MHz	34.15	-11.86
1 Quasi Peak	915.16 MHz	35.85	-10.16

Gandini 21023308



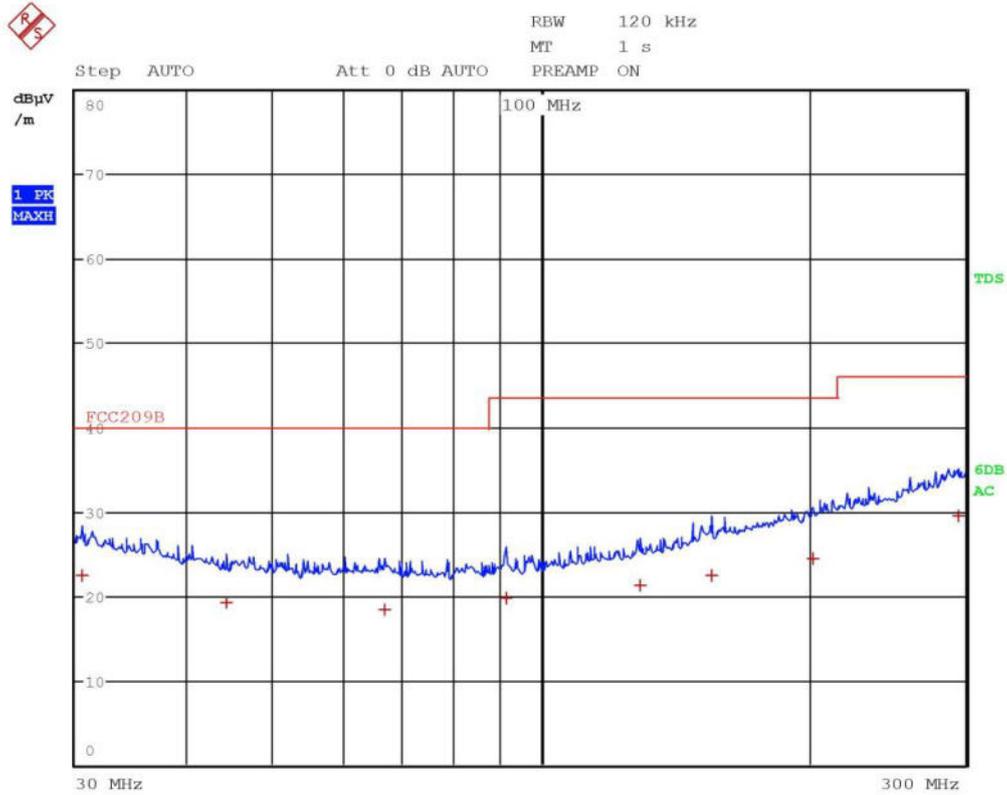
Gandini 21023309

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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	365 MHz	26.00	-20.01
1 Quasi Peak	433.48 MHz	27.34	-18.67
1 Quasi Peak	532.56 MHz	29.71	-16.30
1 Quasi Peak	643.2 MHz	32.34	-13.67
1 Quasi Peak	769.8 MHz	34.10	-11.91
1 Quasi Peak	951.4 MHz	35.88	-10.13

Gandini 21023309



Gandini 21023310

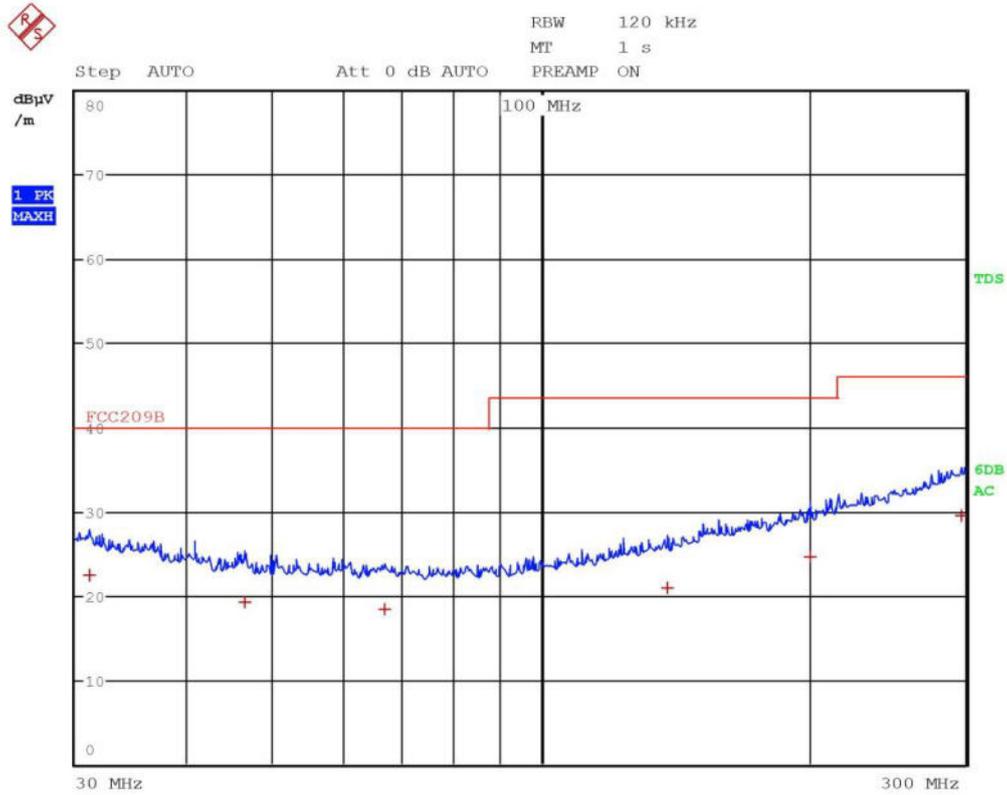
CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	30.56 MHz	22.42	-17.58
1 Quasi Peak	44.36 MHz	19.32	-20.68
1 Quasi Peak	66.8 MHz	18.34	-21.65
1 Quasi Peak	91.44 MHz	19.69	-23.82
1 Quasi Peak	129.32 MHz	21.27	-22.24
1 Quasi Peak	155.4 MHz	22.41	-21.10
1 Quasi Peak	202.4 MHz	24.50	-19.01
1 Quasi Peak	295 MHz	29.44	-16.57

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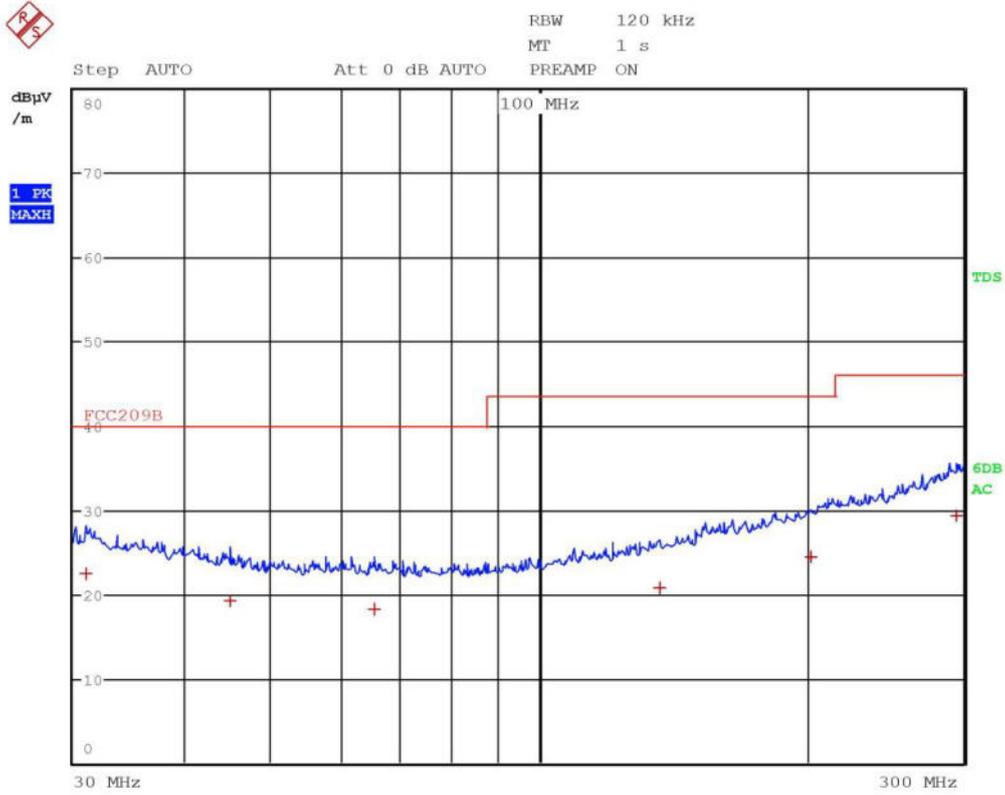
Gandini 21023311

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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	31.08 MHz	22.40	-17.59
1 Quasi Peak	46.56 MHz	19.27	-20.72
1 Quasi Peak	66.68 MHz	18.35	-21.65
1 Quasi Peak	138.76 MHz	20.88	-22.63
1 Quasi Peak	200.8 MHz	24.58	-18.94
1 Quasi Peak	296.44 MHz	29.48	-16.53

Gandini 21023311



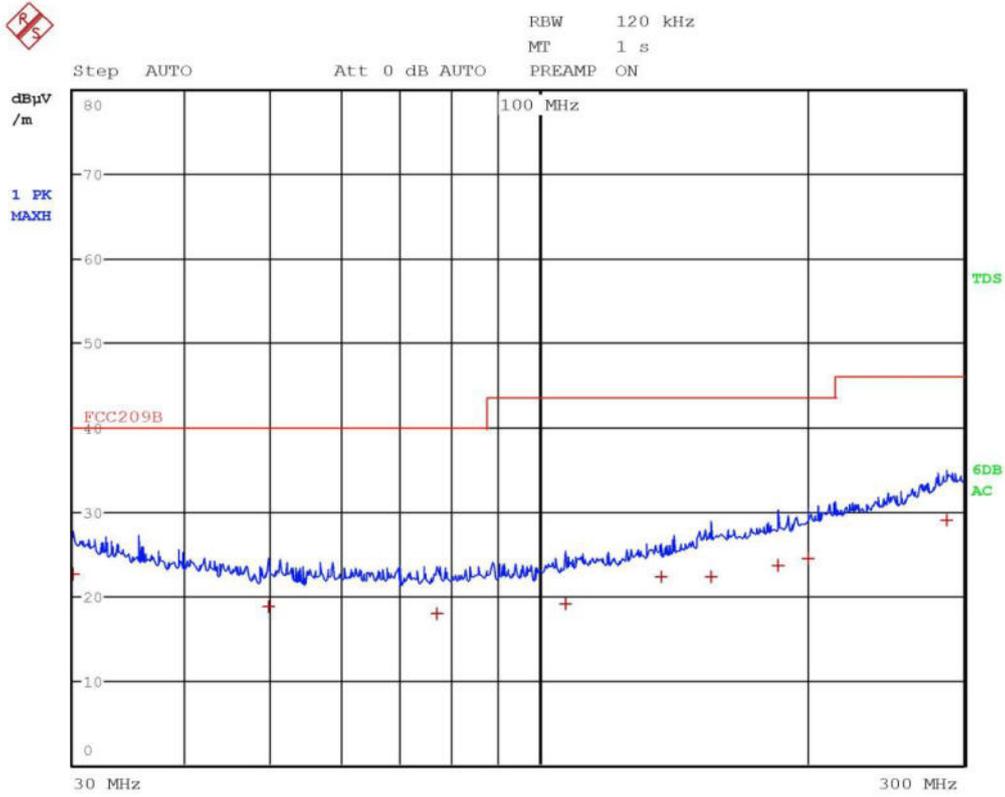
Gandini 21023312

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	30.92 MHz	22.48	-17.51
1 Quasi Peak	44.92 MHz	19.31	-20.68
1 Quasi Peak	65.36 MHz	18.31	-21.68
1 Quasi Peak	136.76 MHz	20.68	-22.83
1 Quasi Peak	202 MHz	24.53	-18.98
1 Quasi Peak	294.12 MHz	29.39	-16.62

Gandini 21023312



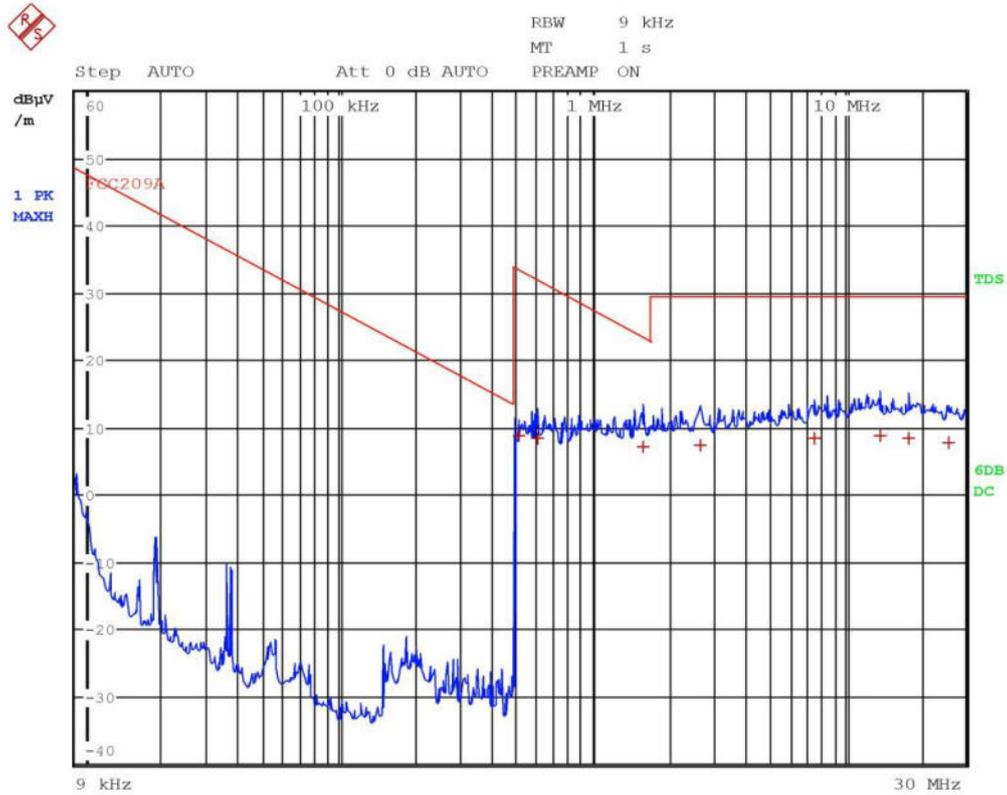
Gandini 21023313

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	30 MHz	22.60	-17.39
1 Quasi Peak	49.68 MHz	18.68	-21.31
1 Quasi Peak	76.76 MHz	17.87	-22.12
1 Quasi Peak	107.2 MHz	19.03	-24.48
1 Quasi Peak	137.36 MHz	22.28	-21.23
1 Quasi Peak	156.08 MHz	22.33	-21.18
1 Quasi Peak	185.48 MHz	23.54	-19.97
1 Quasi Peak	200.44 MHz	24.52	-18.99
1 Quasi Peak	287.2 MHz	28.96	-17.05

Gandini 21023313



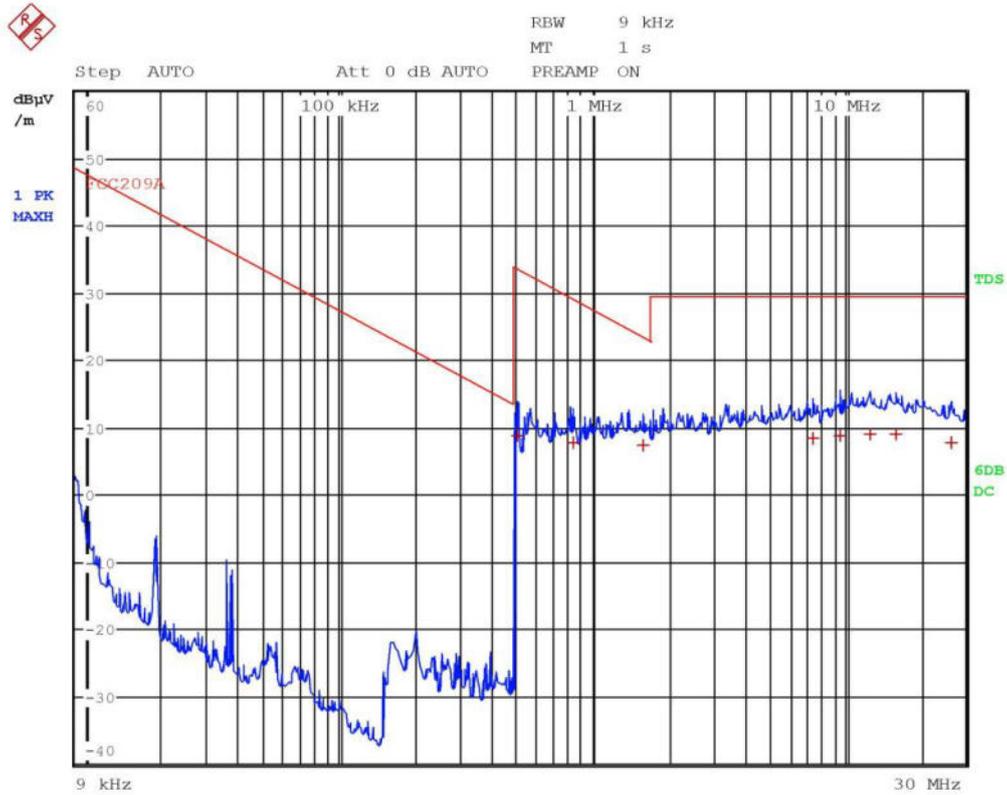
Gandini 21023314

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB μ V/m	DELTA LIMIT dB
1 Quasi Peak	506 kHz	8.80	-24.71
1 Quasi Peak	602 kHz	8.45	-23.56
1 Quasi Peak	1.582 MHz	7.20	-16.41
1 Quasi Peak	2.666 MHz	7.45	-22.08
1 Quasi Peak	7.522 MHz	8.32	-21.21
1 Quasi Peak	13.738 MHz	8.77	-20.76
1 Quasi Peak	17.718 MHz	8.40	-21.13
1 Quasi Peak	25.782 MHz	7.74	-21.79

Gandini 21023314

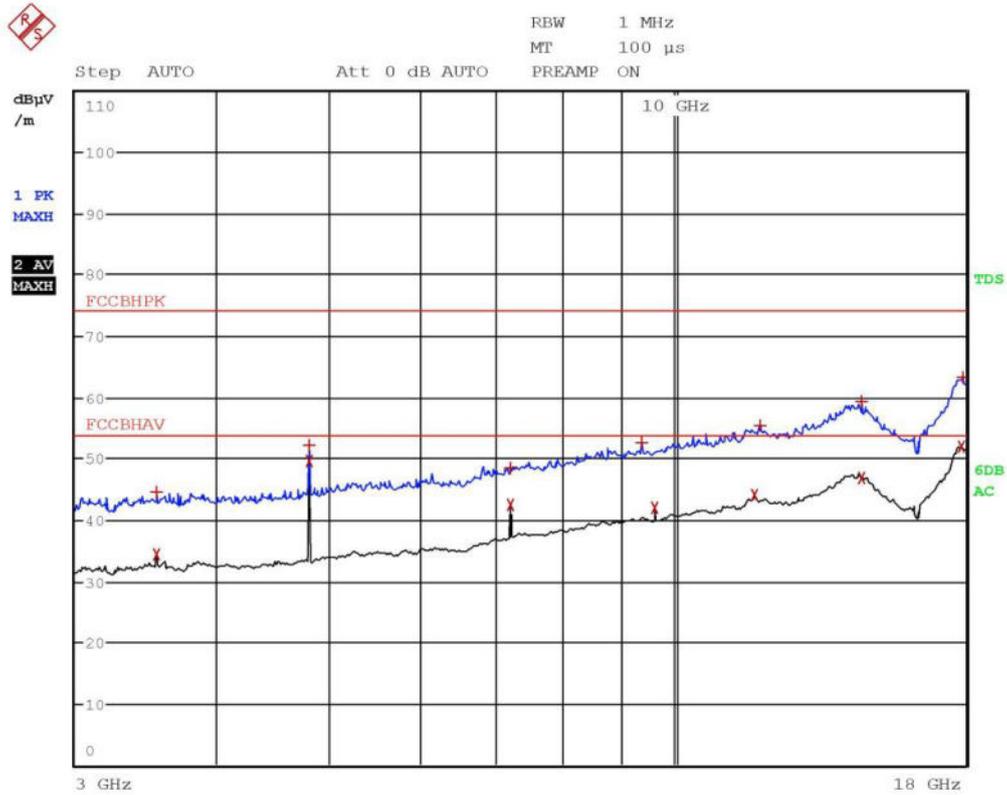


Gandini 21023315



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB μ V/m	DELTA LIMIT dB
1 Quasi Peak	502 kHz	8.82	-24.76
1 Quasi Peak	834 kHz	7.78	-21.40
1 Quasi Peak	1.594 MHz	7.31	-16.24
1 Quasi Peak	7.494 MHz	8.35	-21.18
1 Quasi Peak	9.602 MHz	8.79	-20.74
1 Quasi Peak	12.534 MHz	9.13	-20.41
1 Quasi Peak	15.858 MHz	9.01	-20.52
1 Quasi Peak	26.474 MHz	7.72	-21.81

Gandini 21023315



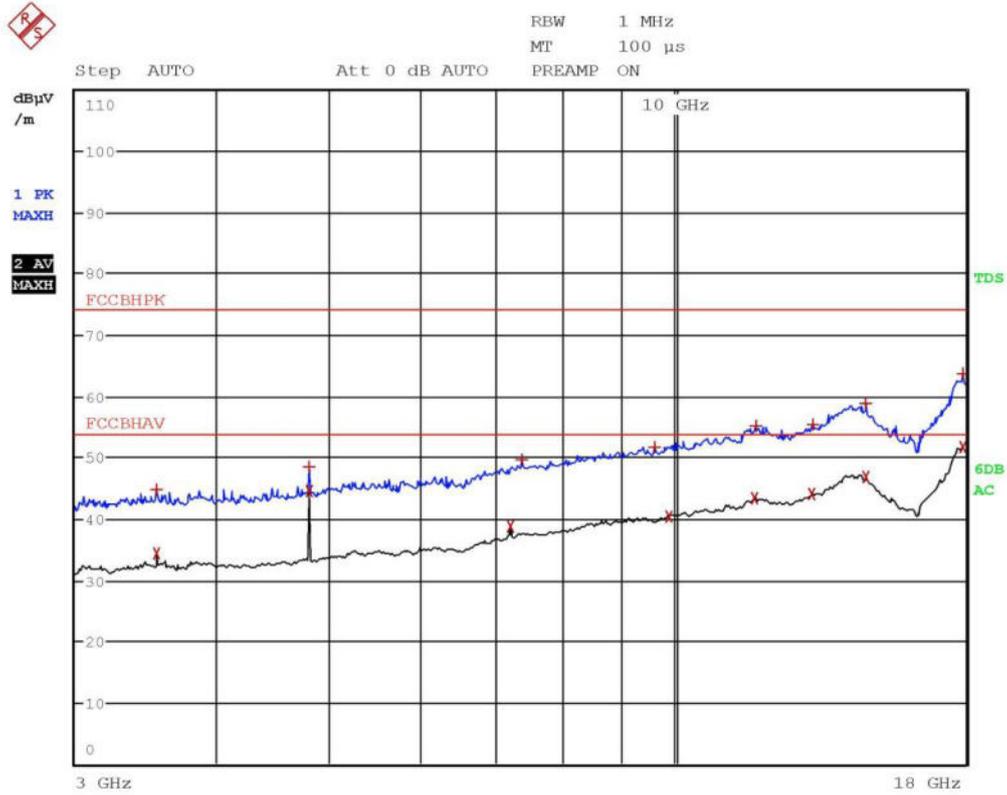
Gandini 21023316

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Max Peak	3.5356 GHz	44.59	-29.38
2 Average	3.5356 GHz	34.24	-19.73
1 Max Peak	4.808 GHz	52.15	-21.82
2 Average	4.808 GHz	49.45	-4.52
2 Average	7.2112 GHz	42.32	-11.65
1 Max Peak	7.2116 GHz	48.50	-25.47
1 Max Peak	9.366 GHz	52.49	-21.48
2 Average	9.616 GHz	41.88	-12.09
2 Average	11.7608 GHz	44.13	-9.84
1 Max Peak	11.9032 GHz	55.28	-18.69
1 Max Peak	14.5868 GHz	59.16	-14.81
2 Average	14.5932 GHz	46.82	-7.15
2 Average	17.8588 GHz	51.91	-2.06
1 Max Peak	17.9172 GHz	63.11	-10.86

Gandini 21023316



Gandini 21023317

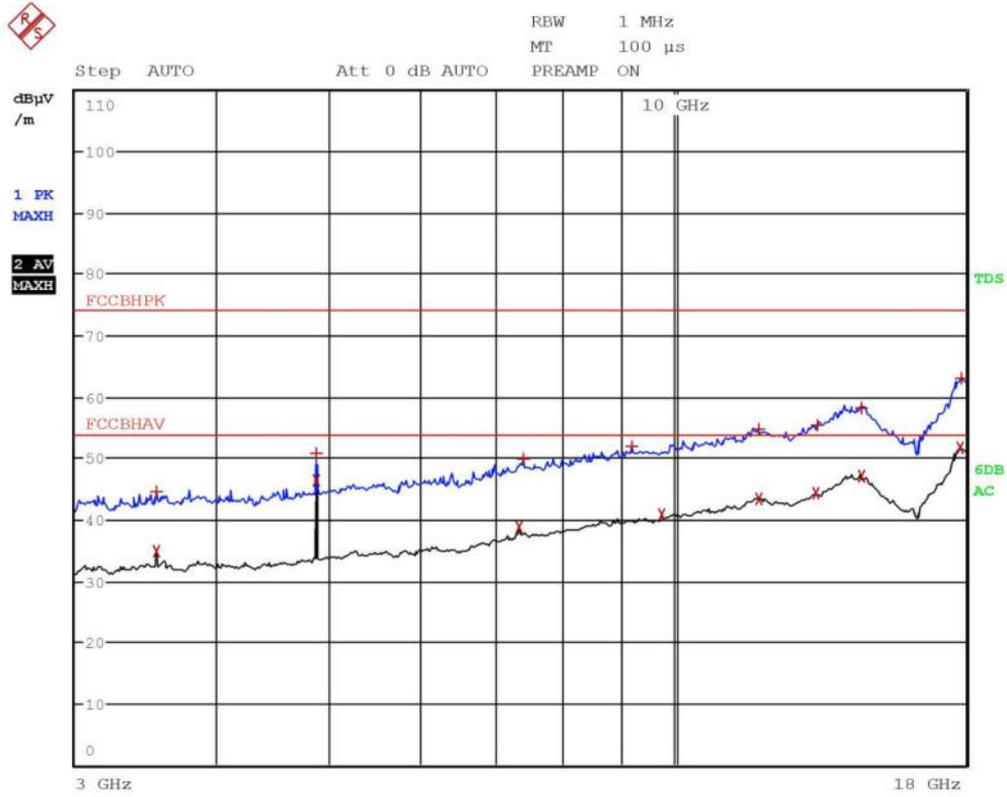
CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
2 Average	3.5356 GHz	34.31	-19.67
1 Max Peak	3.5356 GHz	44.73	-29.24
2 Average	4.8076 GHz	44.48	-9.49
1 Max Peak	4.8084 GHz	48.32	-25.66
2 Average	7.2108 GHz	38.64	-15.33
1 Max Peak	7.3588 GHz	49.57	-24.40
1 Max Peak	9.618 GHz	51.60	-22.37
2 Average	9.8972 GHz	40.35	-13.62
2 Average	11.7788 GHz	43.28	-10.69
1 Max Peak	11.7872 GHz	55.15	-18.82
2 Average	13.1908 GHz	44.08	-9.89
1 Max Peak	13.2296 GHz	55.30	-18.67
1 Max Peak	14.74 GHz	58.72	-15.25
2 Average	14.742 GHz	46.88	-7.10
2 Average	17.8712 GHz	51.66	-2.31
1 Max Peak	17.894 GHz	63.73	-10.24

Gandini 21023317

CMC Centro Misure Compatibilità S.r.l.

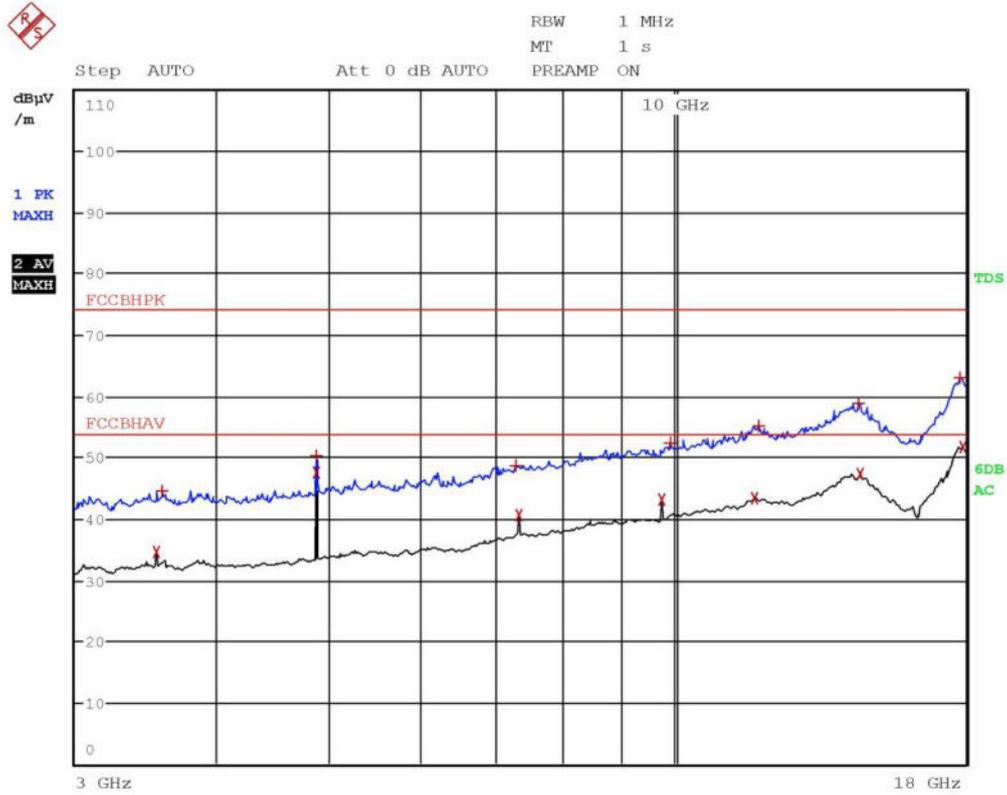


Gandini 21023318



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
2 Average	3.5356 GHz	34.86	-19.11
1 Max Peak	3.5356 GHz	44.39	-29.58
1 Max Peak	4.8796 GHz	50.84	-23.14
2 Average	4.8796 GHz	46.33	-7.64
2 Average	7.3212 GHz	38.68	-15.29
1 Max Peak	7.3948 GHz	49.71	-24.26
1 Max Peak	9.1988 GHz	51.81	-22.16
2 Average	9.7596 GHz	40.85	-13.12
2 Average	11.8752 GHz	43.26	-10.72
1 Max Peak	11.8772 GHz	54.56	-19.41
2 Average	13.3008 GHz	44.23	-9.74
1 Max Peak	13.3348 GHz	55.42	-18.55
2 Average	14.6084 GHz	46.95	-7.02
1 Max Peak	14.614 GHz	58.01	-15.96
2 Average	17.8124 GHz	51.76	-2.21
1 Max Peak	17.87 GHz	63.04	-10.93

Gandini 21023318



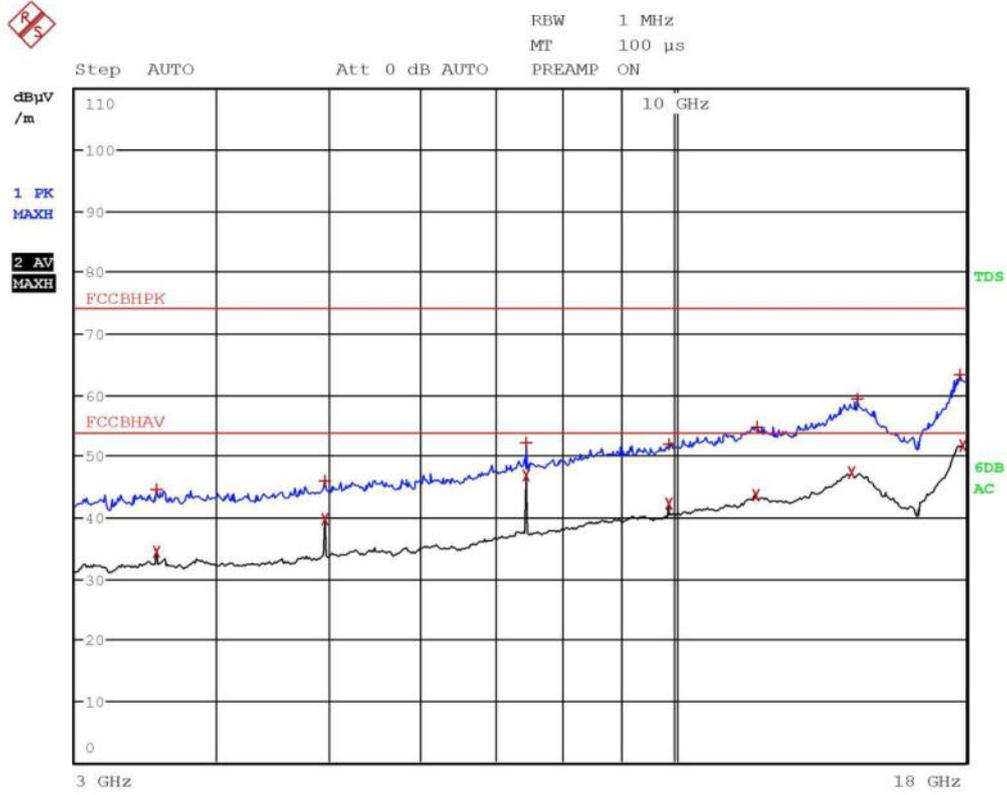
Gandini 21023319

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
2 Average	3.5356 GHz	34.43	-19.54
1 Max Peak	3.5728 GHz	44.47	-29.50
1 Max Peak	4.8804 GHz	50.37	-23.60
2 Average	4.8804 GHz	47.38	-6.59
1 Max Peak	7.2944 GHz	48.72	-25.25
2 Average	7.3208 GHz	40.53	-13.44
2 Average	9.7612 GHz	42.99	-10.98
1 Max Peak	9.9452 GHz	52.26	-21.71
2 Average	11.7836 GHz	43.30	-10.68
1 Max Peak	11.8548 GHz	55.12	-18.85
1 Max Peak	14.5016 GHz	58.76	-15.21
2 Average	14.5748 GHz	47.23	-6.74
1 Max Peak	17.814 GHz	63.07	-10.90
2 Average	17.9052 GHz	51.67	-2.30

Gandini 21023319



Gandini 21023320

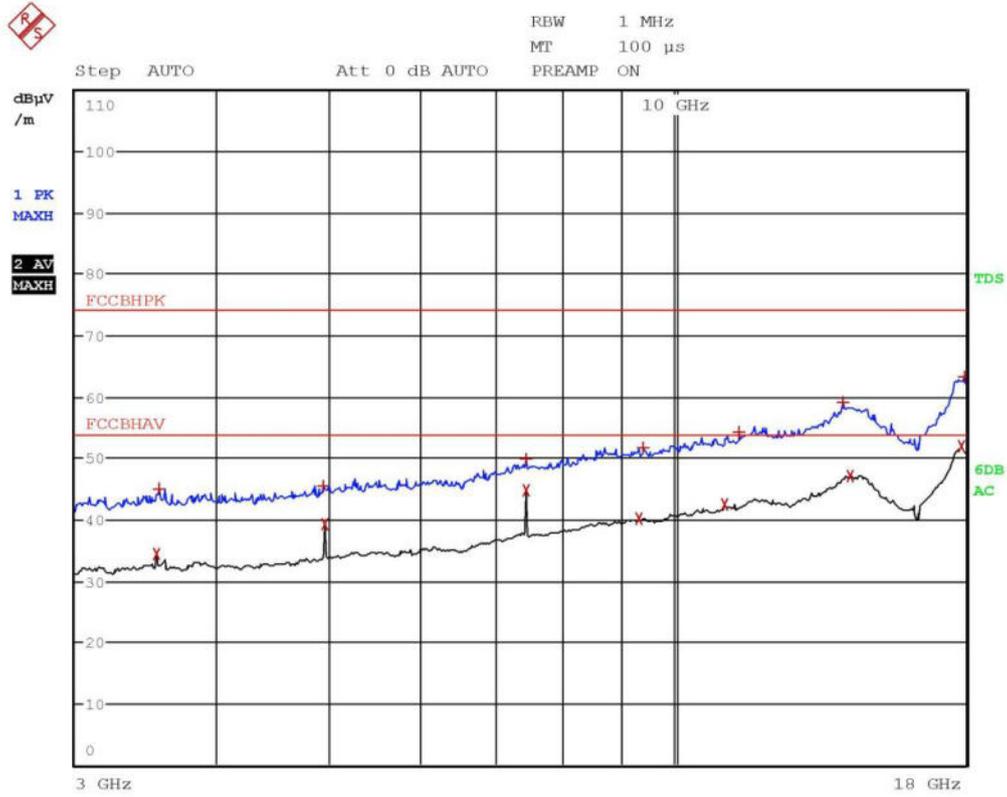
CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	3.5356 GHz	44.43	-29.54
2 Average	3.5356 GHz	34.30	-19.67
1 Max Peak	4.9576 GHz	45.91	-28.07
2 Average	4.9576 GHz	39.60	-14.37
1 Max Peak	7.4356 GHz	52.11	-21.86
2 Average	7.436 GHz	46.82	-7.16
1 Max Peak	9.904 GHz	51.77	-22.20
2 Average	9.9152 GHz	42.11	-11.87
2 Average	11.7924 GHz	43.46	-10.51
1 Max Peak	11.8316 GHz	54.73	-19.24
2 Average	14.3192 GHz	47.26	-6.71
1 Max Peak	14.4732 GHz	59.22	-14.75
1 Max Peak	17.78 GHz	63.17	-10.80
2 Average	17.8732 GHz	51.63	-2.34

Gandini 21023320

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023321



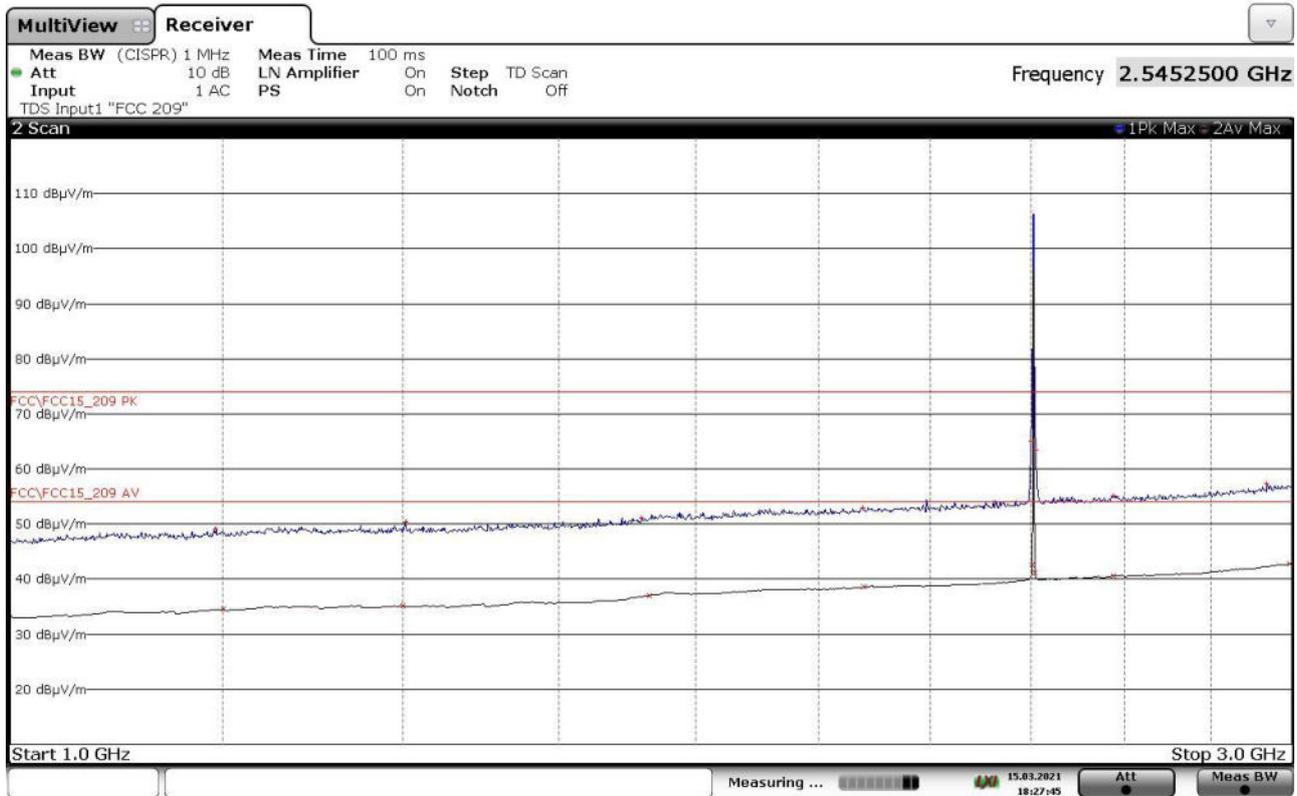
EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
2 Average	3.5356 GHz	34.36	-19.61
1 Max Peak	3.5524 GHz	44.99	-28.98
1 Max Peak	4.9472 GHz	45.35	-28.62
2 Average	4.958 GHz	39.27	-14.70
1 Max Peak	7.4376 GHz	49.70	-24.28
2 Average	7.4376 GHz	44.79	-9.18
2 Average	9.3388 GHz	40.17	-13.81
1 Max Peak	9.3964 GHz	51.55	-22.42
2 Average	11.0872 GHz	42.30	-11.67
1 Max Peak	11.4104 GHz	54.19	-19.78
1 Max Peak	14.0792 GHz	59.13	-14.84
2 Average	14.2748 GHz	47.00	-6.97
2 Average	17.8668 GHz	51.84	-2.13
1 Max Peak	17.9268 GHz	63.18	-10.79

Gandini 21023321

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023322



FINAL RESULT TABLE

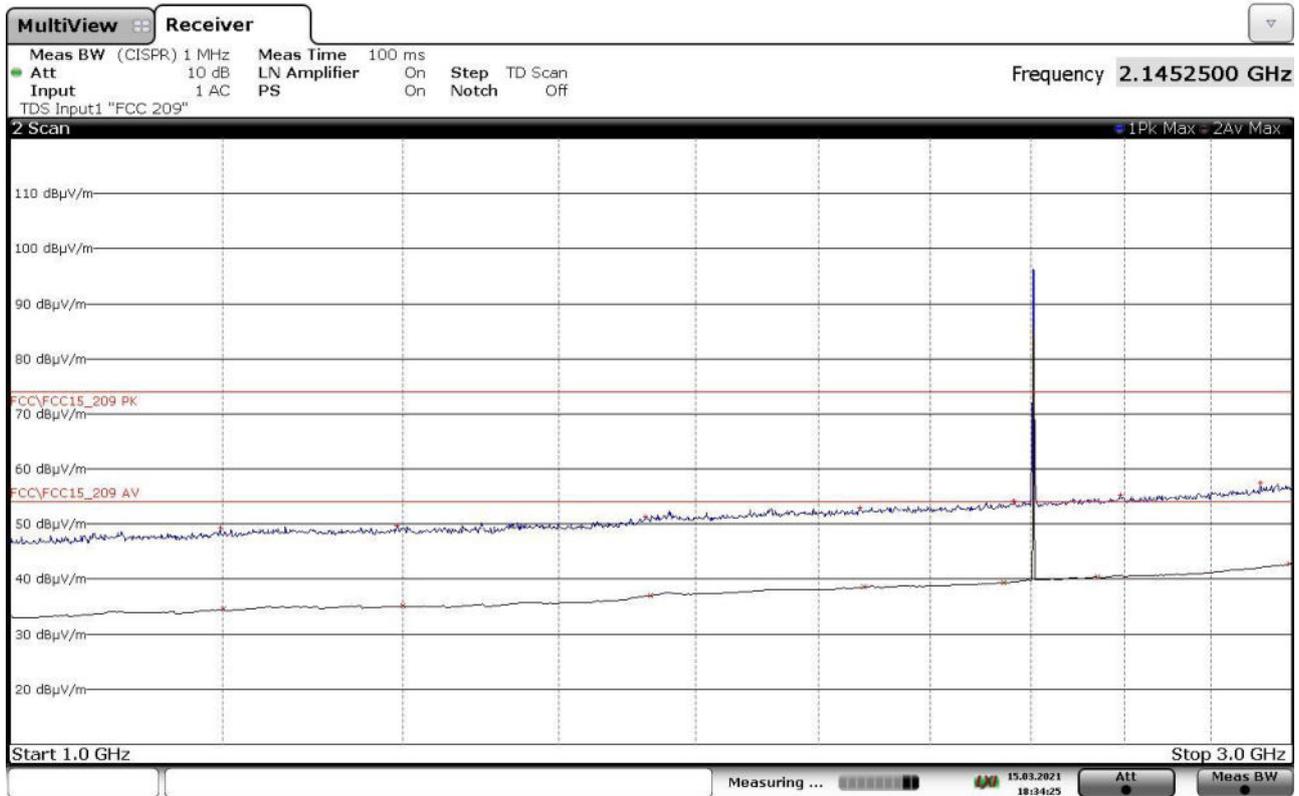
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1193000000	+49,10	-24,88	1200500000	+34,63	-19,35
1403250000	+50,47	-23,51	1400000000	+35,26	-18,72
1718250000	+51,20	-22,78	1730000000	+37,08	-16,90
2077250000	+52,99	-20,99	2079250000	+38,57	-15,41
2399750000	+65,06	-8,92	2402000000	+42,53	-11,45
2409000000	+63,44	-10,54	2406750000	+41,25	-12,73
2574250000	+55,17	-18,81	2576000000	+40,57	-13,41
2937000000	+57,23	-16,75	2996000000	+42,83	-11,15

21023322_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023323



FINAL RESULT TABLE

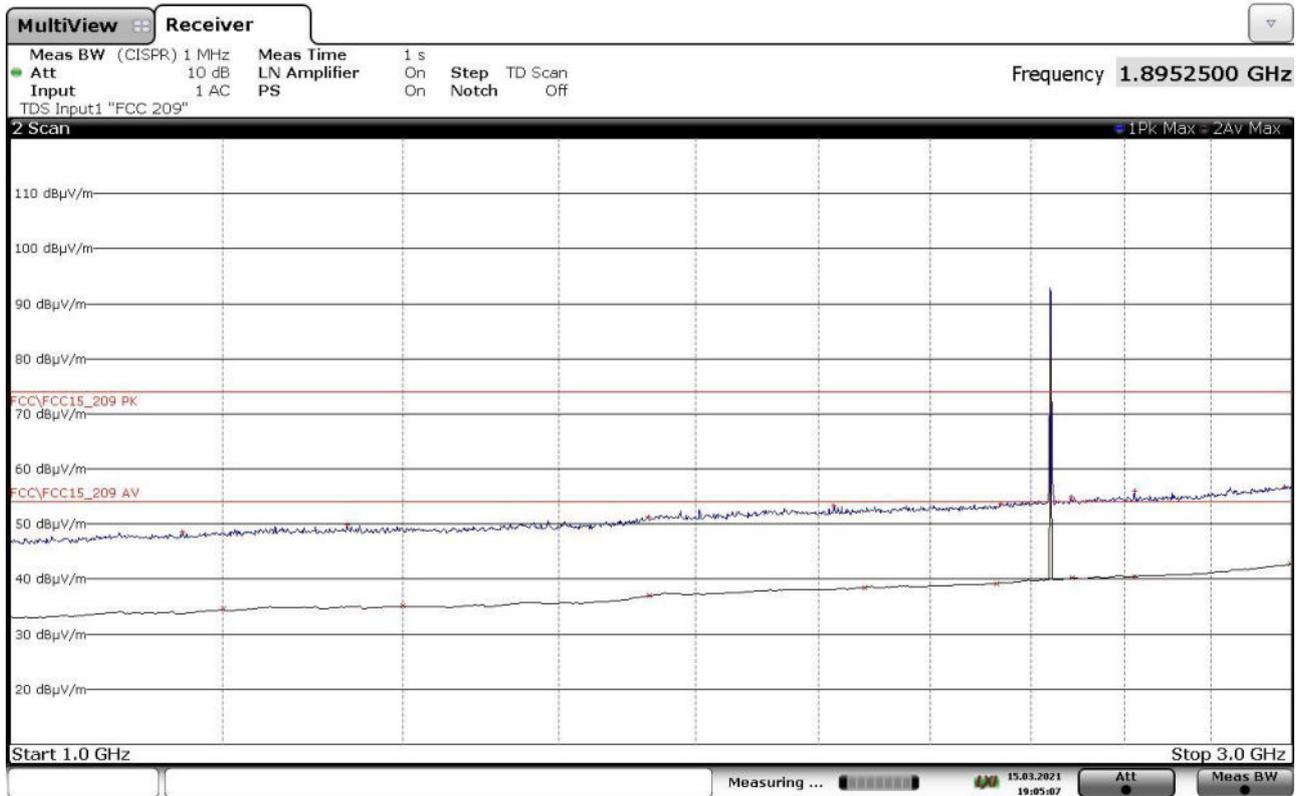
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1197750000	+49,25	-24,73	1200500000	+34,59	-19,39
1393000000	+49,68	-24,30	1400000000	+35,23	-18,75
1724250000	+51,35	-22,63	1730750000	+37,04	-16,94
2071750000	+53,03	-20,95	2079500000	+38,55	-15,43
2363750000	+54,26	-19,72	2344250000	+39,43	-14,55
2590250000	+55,37	-18,61	2540000000	+40,50	-13,48
2921000000	+57,40	-16,58	2995750000	+42,80	-11,18

21023323_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023325



FINAL RESULT TABLE

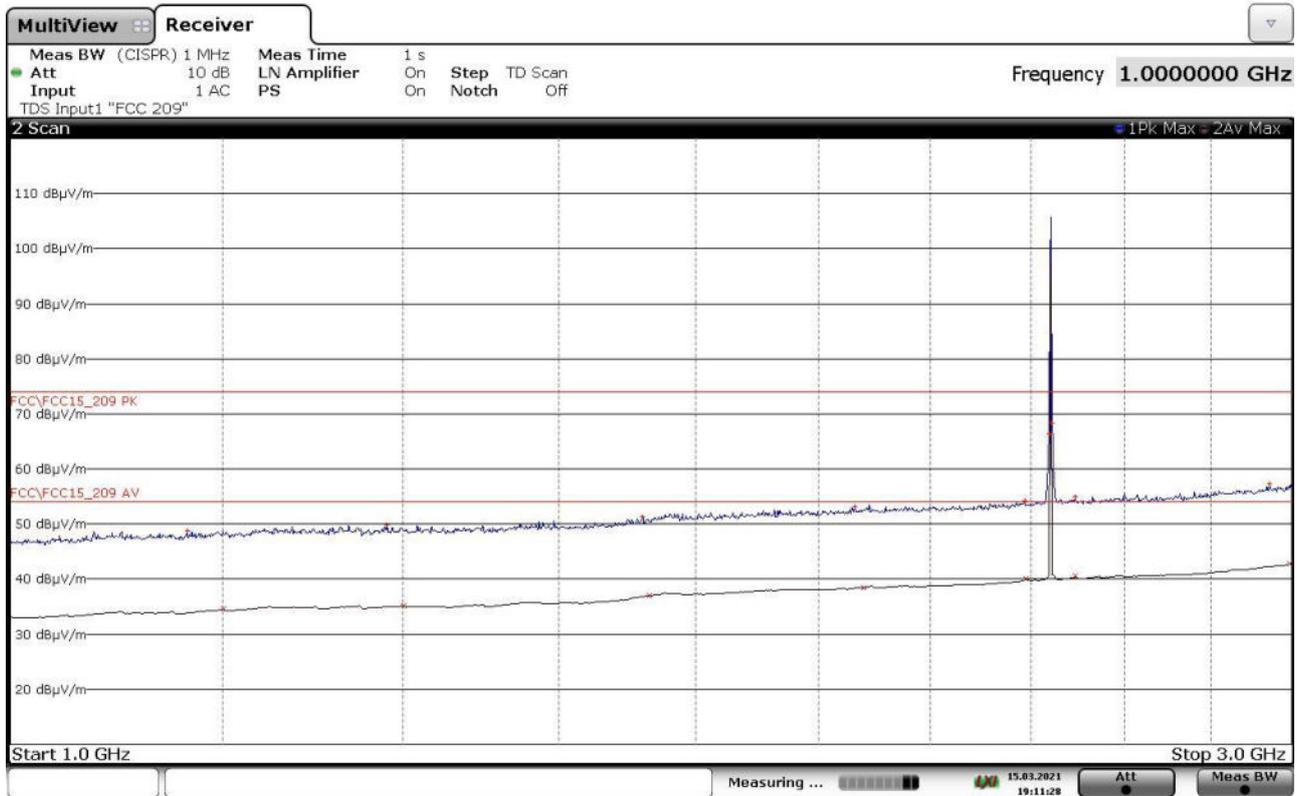
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1159000000	+48,68	-25,30	1200500000	+34,56	-19,42
1334750000	+49,82	-24,16	1400500000	+35,19	-18,79
1728250000	+51,37	-22,61	1729250000	+37,00	-16,98
2026500000	+53,25	-20,73	2080000000	+38,51	-15,47
2337000000	+53,72	-20,26	2329500000	+39,25	-14,73
2482750000	+54,95	-19,03	2486250000	+40,19	-13,79
2621500000	+56,01	-17,97	2621000000	+40,53	-13,45
2981500000	+56,83	-17,15	2997000000	+42,76	-11,22

21023325_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023326



FINAL RESULT TABLE

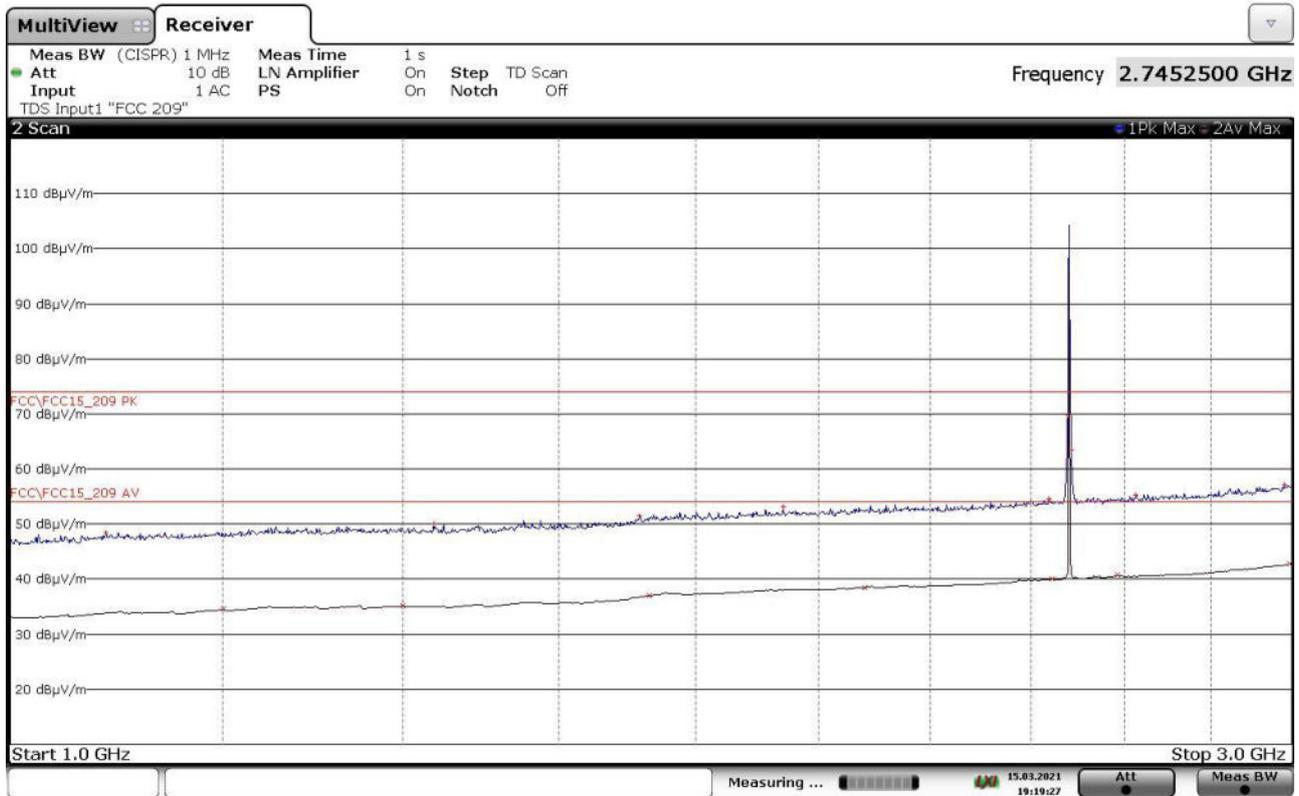
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1164000000	+48,74	-25,24	1200750000	+34,56	-19,42
1381000000	+49,87	-24,11	1401000000	+35,19	-18,79
1720000000	+51,27	-22,71	1730250000	+37,01	-16,97
2062500000	+53,11	-20,87	2079500000	+38,50	-15,48
2385750000	+54,13	-19,85	2388000000	+40,00	-13,98
2436250000	+66,43	-7,55	2492000000	+40,67	-13,31
2443500000	+68,44	-5,54	2995500000	+42,77	-11,21
2492500000	+54,93	-19,05			
2943250000	+57,28	-16,70			

21023326_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023327



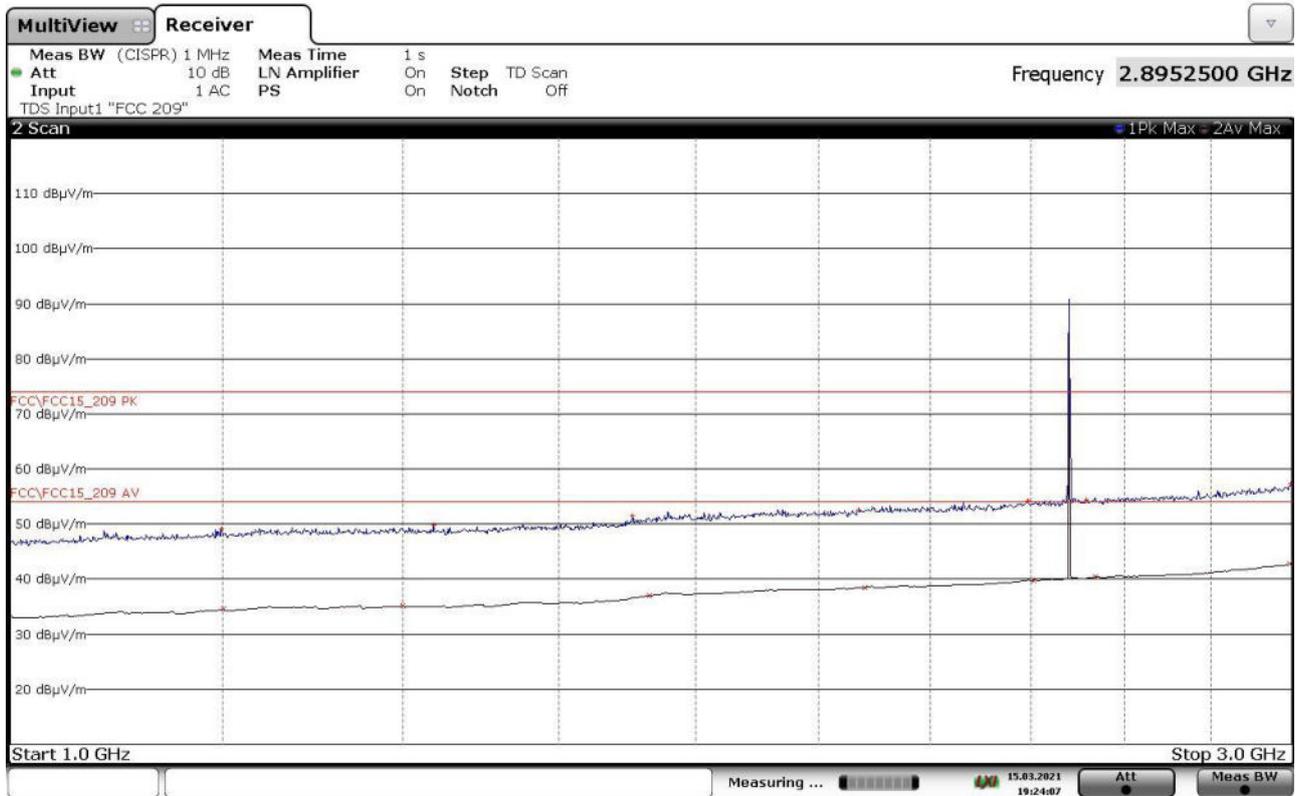
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1085500000	+48,50	-25,48	1200500000	+34,56	-19,42
1438000000	+50,14	-23,84	1400000000	+35,19	-18,79
1715500000	+51,56	-22,42	1730250000	+37,02	-16,96
1940250000	+53,08	-20,90	2080000000	+38,51	-15,47
2436000000	+54,50	-19,48	2443500000	+40,06	-13,92
2476000000	+69,80	-4,18	2583000000	+40,84	-13,14
2483250000	+63,40	-10,58	2995250000	+42,78	-11,20
2625500000	+55,26	-18,72			
2982000000	+57,03	-16,95			

21023327_2



Gandini 21023328



FINAL RESULT TABLE

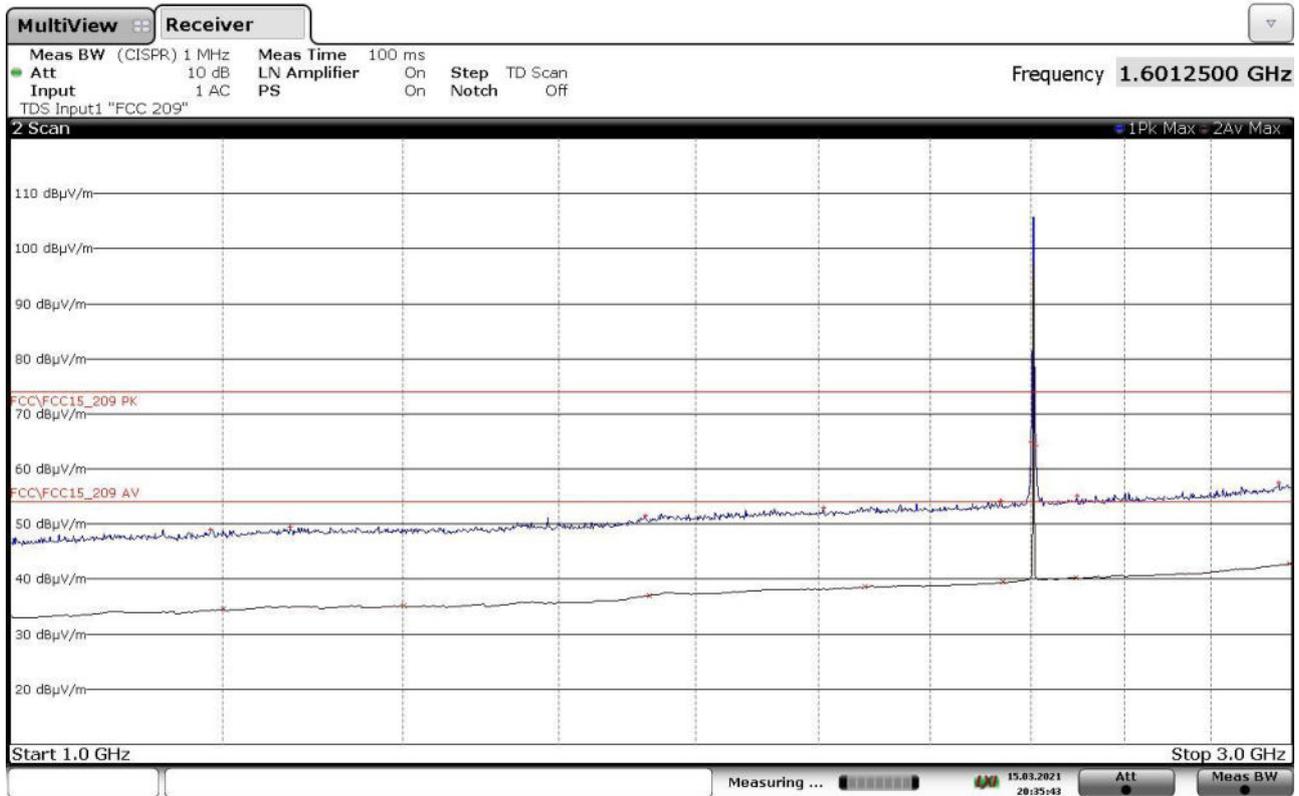
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1198250000	+49,14	-24,84	1200750000	+34,57	-19,41
1437500000	+49,83	-24,15	1400250000	+35,20	-18,78
1705000000	+51,42	-22,56	1730500000	+37,01	-16,97
2069500000	+52,59	-21,39	2080000000	+38,52	-15,46
2392000000	+54,30	-19,68	2406250000	+39,81	-14,17
2516750000	+54,46	-19,52	2535750000	+40,40	-13,58
2998250000	+57,24	-16,74	2996000000	+42,78	-11,20

21023328_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023332



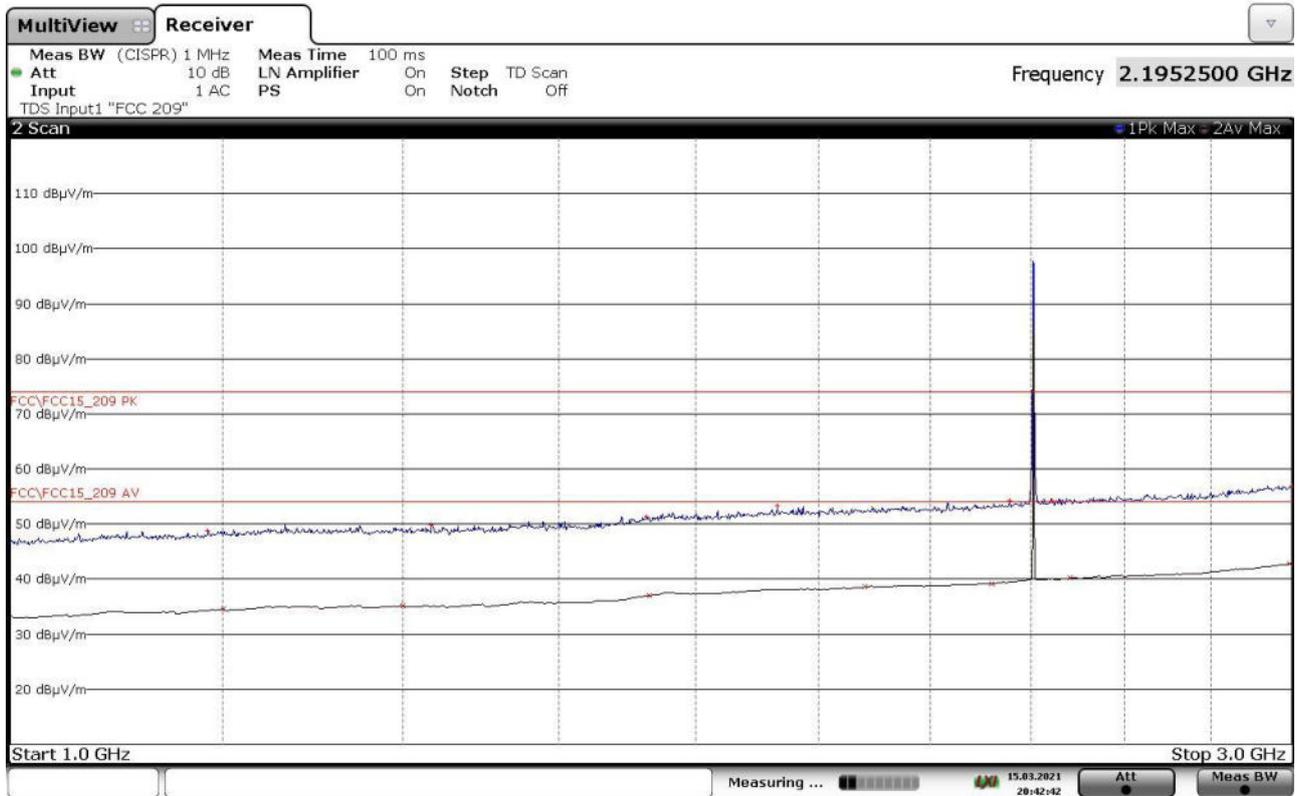
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1187750000	+49,03	-24,95	1200750000	+34,63	-19,35
1271500000	+49,59	-24,39	1400750000	+35,27	-18,71
1723750000	+51,54	-22,44	1730500000	+37,09	-16,89
2007750000	+52,99	-20,99	2080000000	+38,57	-15,41
2337000000	+54,29	-19,69	2341250000	+39,45	-14,53
2399750000	+64,96	-9,02	2495000000	+40,32	-13,66
2409000000	+64,18	-9,80	2995500000	+42,82	-11,16
2495750000	+55,13	-18,85			
2967250000	+57,43	-16,55			

21023332_2



Gandini 21023333



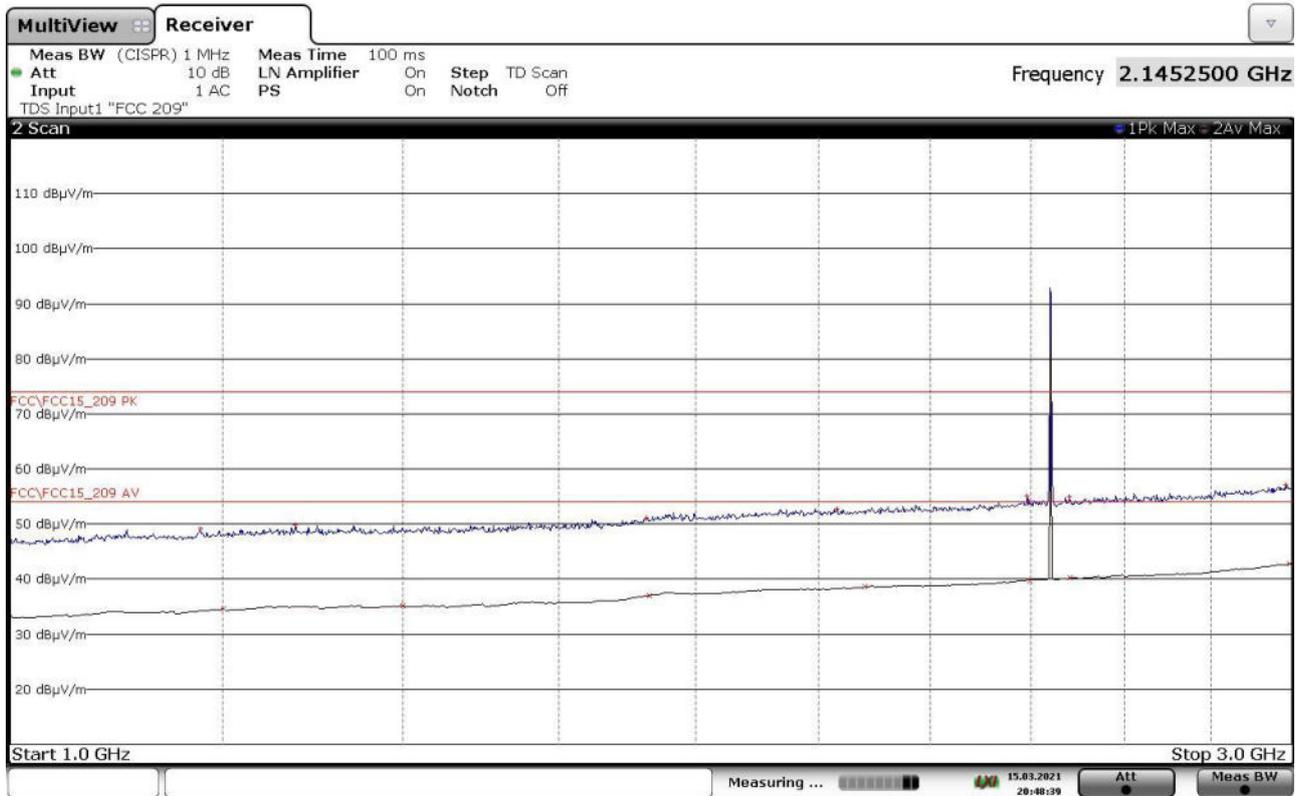
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1184500000	+48,84	-25,14	1200750000	+34,63	-19,35
1435000000	+49,91	-24,07	1400500000	+35,27	-18,71
1726000000	+51,26	-22,72	1729500000	+37,08	-16,90
1930000000	+53,32	-20,66	2080000000	+38,58	-15,40
2356500000	+54,22	-19,76	2320500000	+39,24	-14,74
2444000000	+54,26	-19,72	2481500000	+40,30	-13,68
2999750000	+56,96	-17,02	2995250000	+42,83	-11,15

21023333_2



Gandini 21023334



FINAL RESULT TABLE

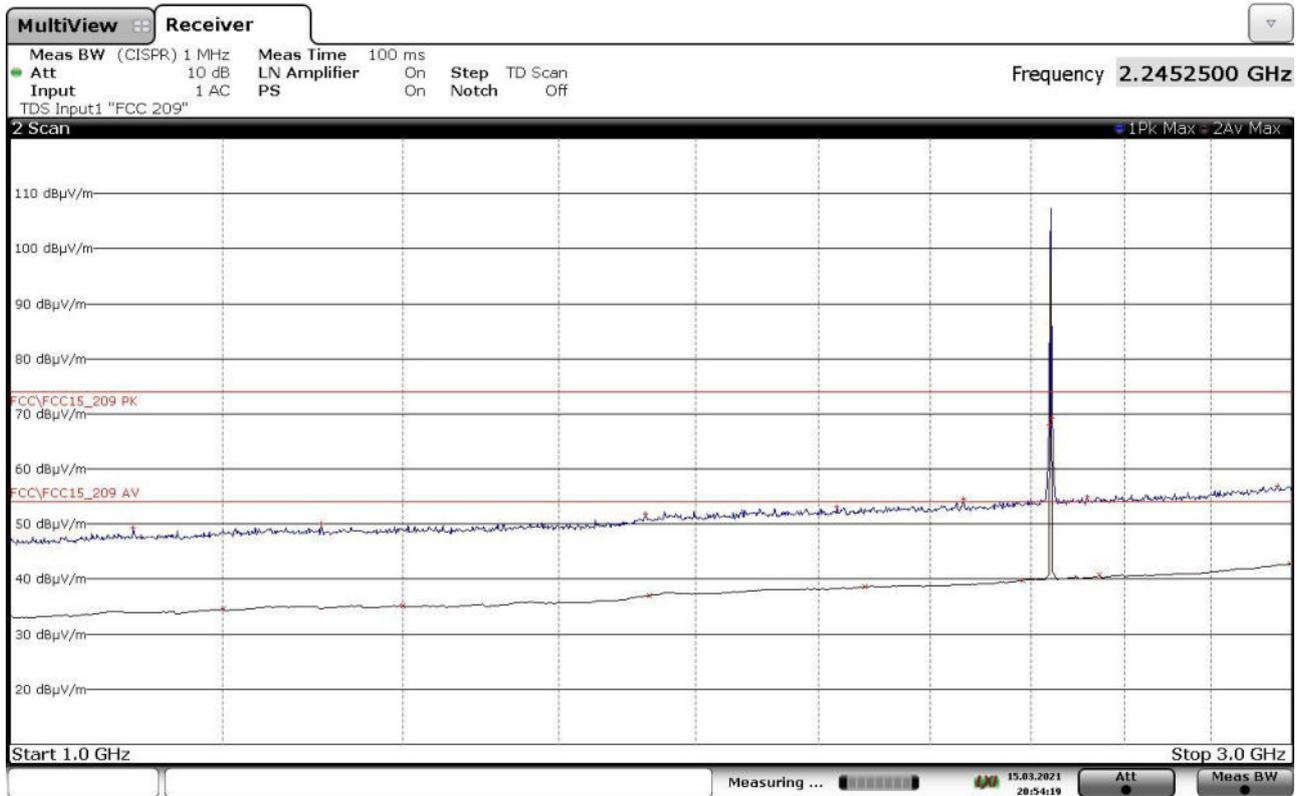
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1176750000	+49,07	-24,91	1200750000	+34,63	-19,35
1277000000	+49,78	-24,20	1399750000	+35,27	-18,71
1726000000	+51,09	-22,89	1730500000	+37,08	-16,90
2031750000	+52,79	-21,19	2080000000	+38,58	-15,40
2391750000	+55,04	-18,94	2397500000	+39,81	-14,17
2478500000	+54,92	-19,06	2480250000	+40,28	-13,70
2984000000	+57,05	-16,93	2995750000	+42,84	-11,14

21023334_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023335



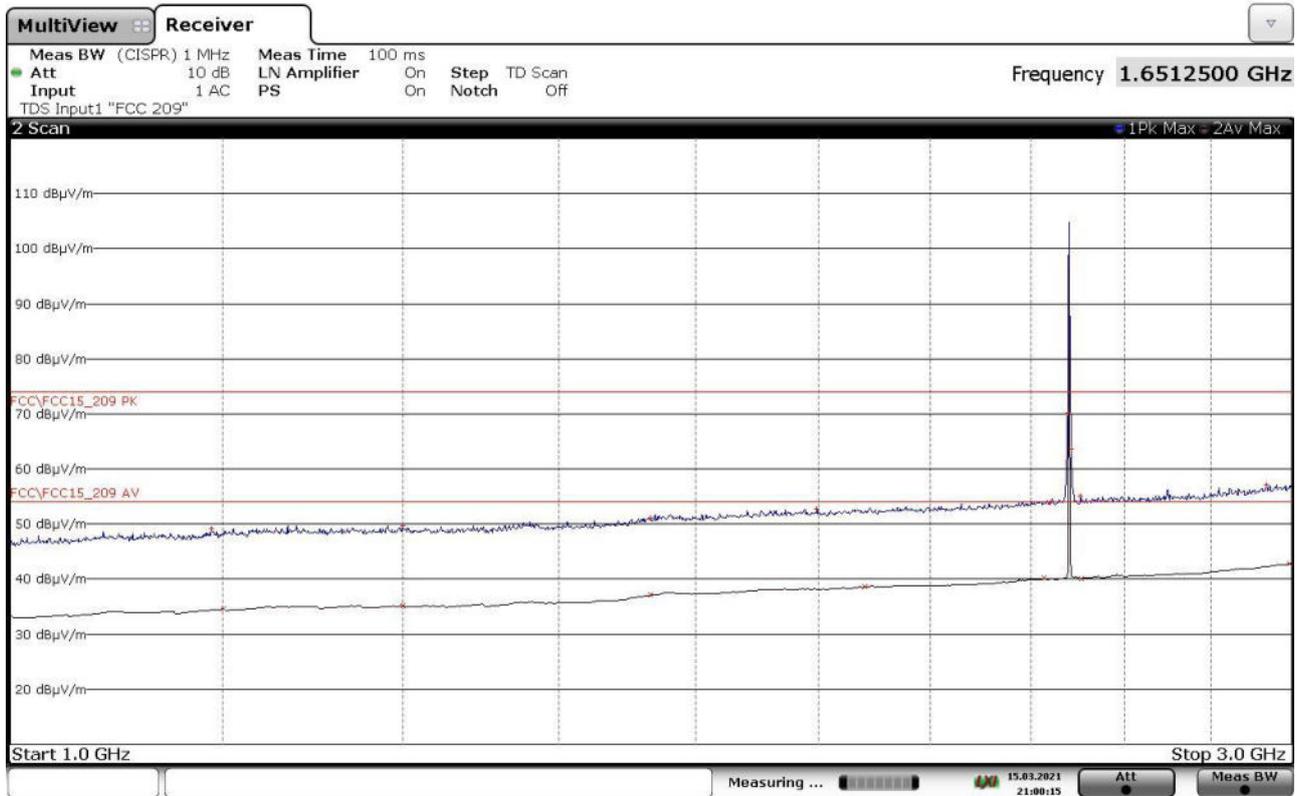
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1111250000	+49,25	-24,73	1200250000	+34,64	-19,34
1305750000	+50,08	-23,90	1400250000	+35,27	-18,71
1724000000	+51,95	-22,03	1729750000	+37,09	-16,89
2031250000	+53,11	-20,87	2080000000	+38,59	-15,39
2264250000	+54,50	-19,48	2383250000	+39,81	-14,17
2436250000	+67,96	-6,02	2544000000	+40,79	-13,19
2443500000	+69,34	-4,64	2996250000	+42,84	-11,14
2517750000	+55,00	-18,98			
2963250000	+56,90	-17,08			

21023335_2



Gandini 21023336



FINAL RESULT TABLE

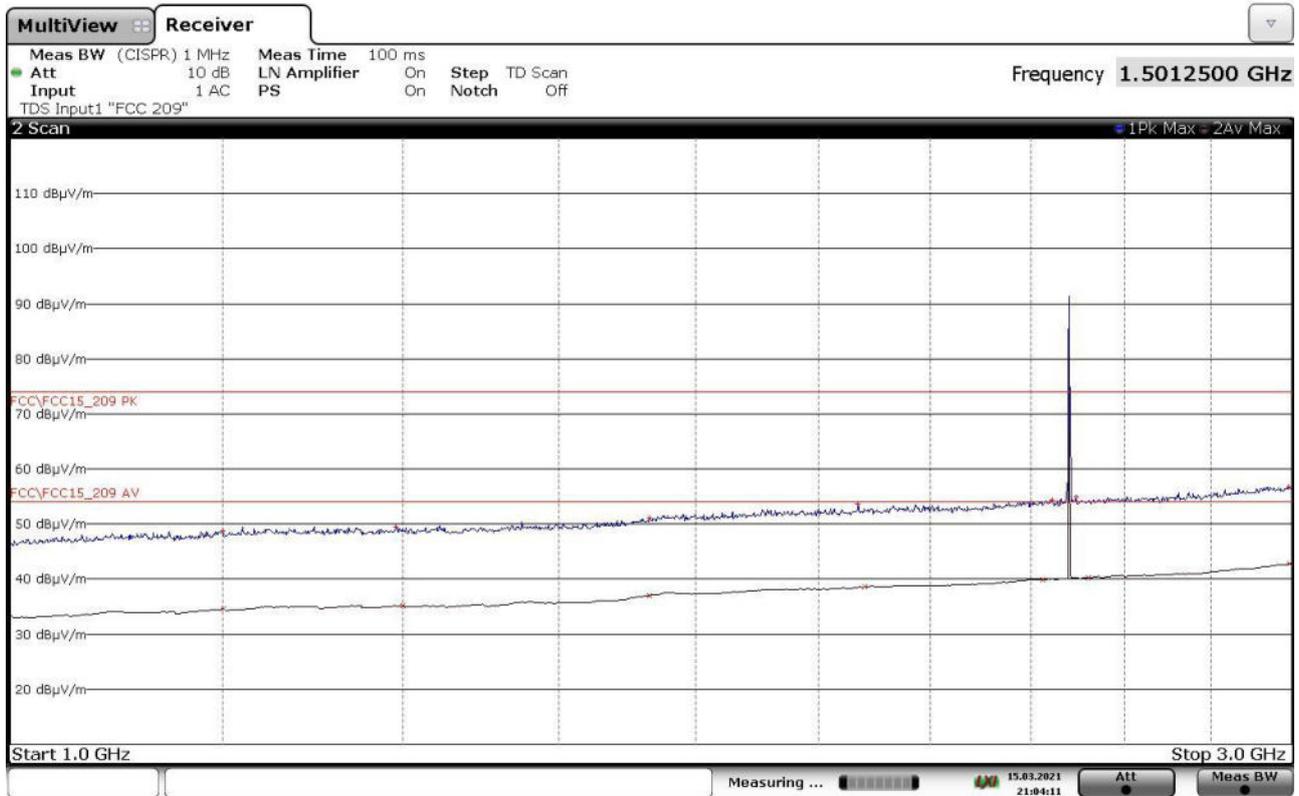
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1188250000	+49,23	-24,75	1200750000	+34,63	-19,35
1399750000	+49,77	-24,21	1400500000	+35,27	-18,71
1731750000	+51,09	-22,89	1731250000	+37,10	-16,88
1997000000	+52,69	-21,29	2080000000	+38,60	-15,38
2439000000	+53,92	-20,06	2427000000	+40,19	-13,79
2476000000	+70,10	-3,88	2504000000	+40,14	-13,84
2483250000	+63,58	-10,40	2995500000	+42,84	-11,14
2503250000	+55,09	-18,89			
2936000000	+57,07	-16,91			

21023336_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023337



FINAL RESULT TABLE

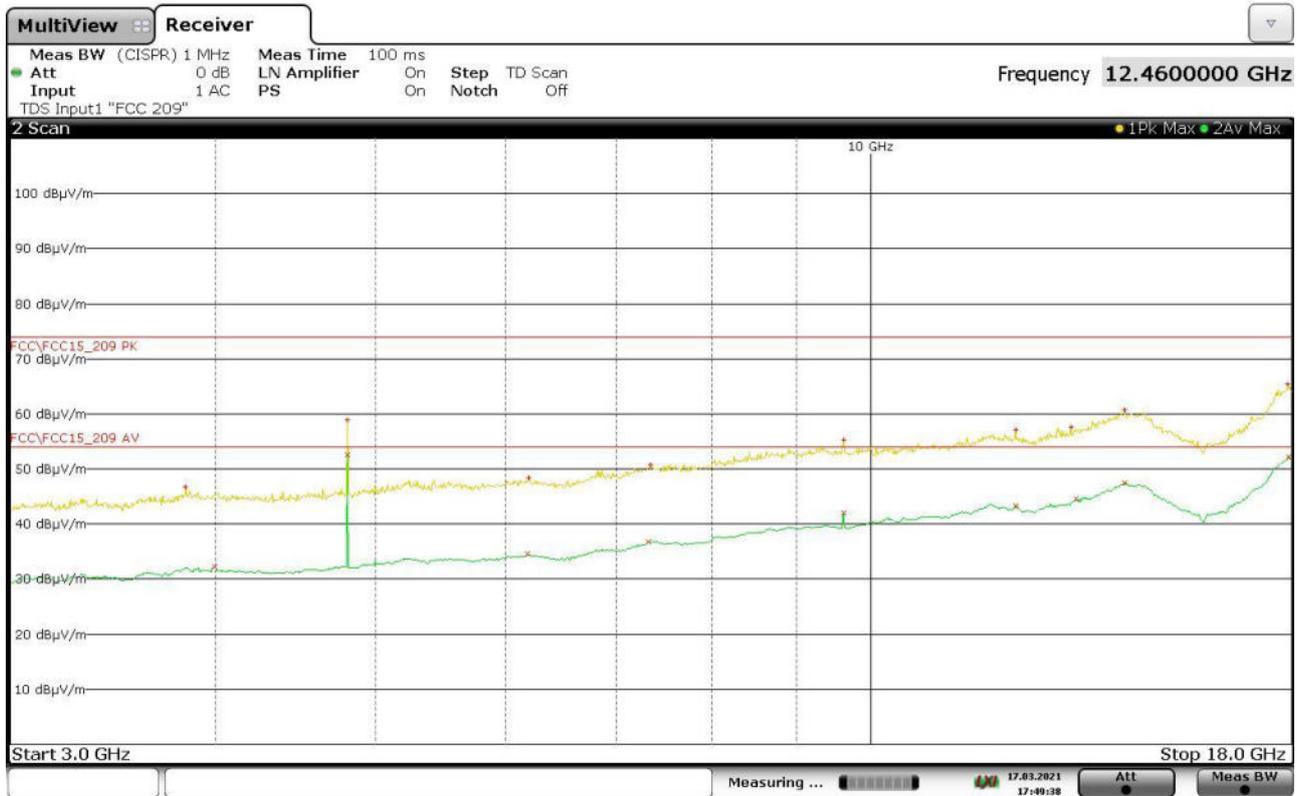
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1199250000	+48,84	-25,14	1200750000	+34,64	-19,34
1392250000	+49,49	-24,49	1400250000	+35,27	-18,71
1730000000	+51,07	-22,91	1729250000	+37,09	-16,89
2068750000	+53,67	-20,31	2080000000	+38,59	-15,39
2443000000	+54,43	-19,55	2423750000	+39,89	-14,09
2493250000	+54,95	-19,03	2519750000	+40,33	-13,65
2991000000	+56,83	-17,15	2995000000	+42,83	-11,15

21023337_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023340



FINAL RESULT TABLE

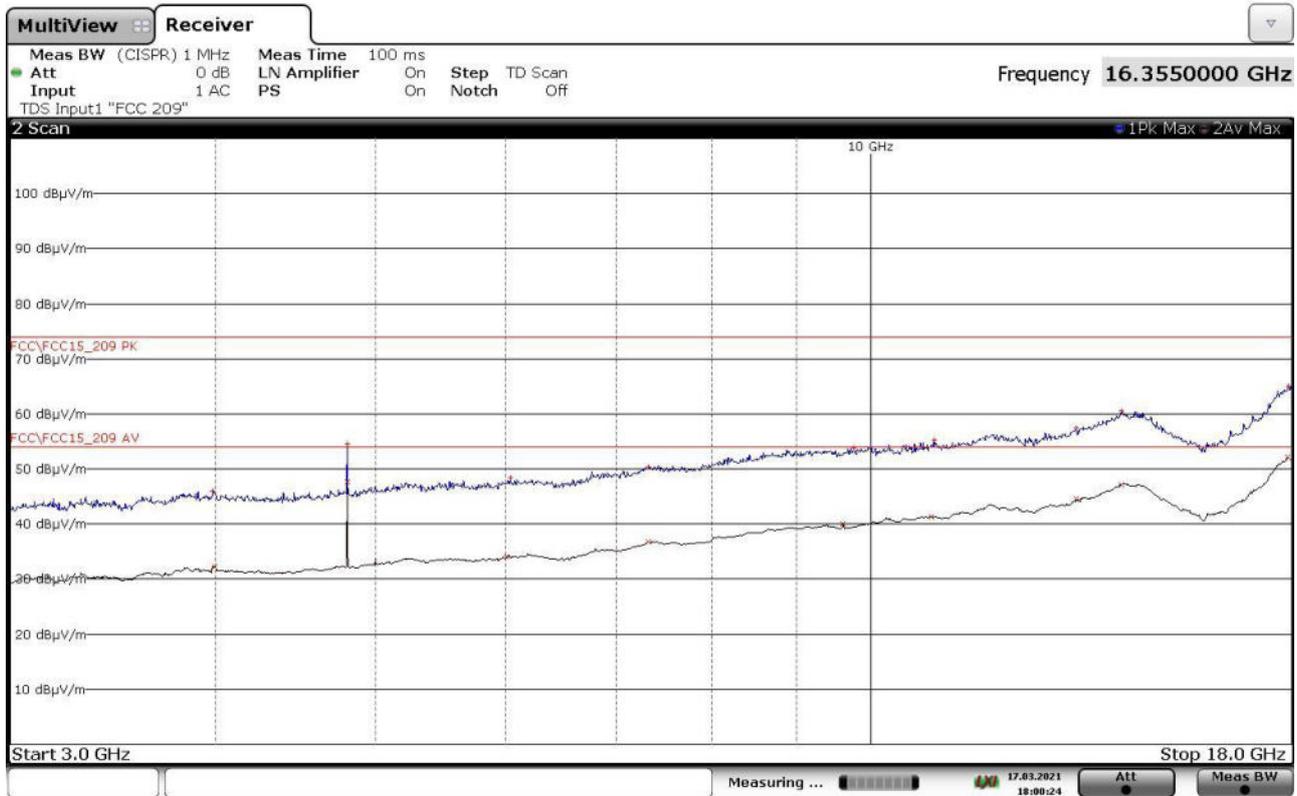
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3835000000	+46,82	-27,16	3992000000	+32,29	-21,69
4808500000	+58,97	-15,01	4808000000	+52,49	-1,49
6196500000	+48,47	-25,51	6183000000	+34,57	-19,41
7347000000	+50,72	-23,26	7323750000	+36,77	-17,21
9617000000	+55,23	-18,75	9616750000	+42,10	-11,88
12231500000	+57,06	-16,92	12232500000	+43,26	-10,72
13217250000	+57,58	-16,40	13317000000	+44,53	-9,45
14253000000	+60,75	-13,23	14243000000	+47,52	-6,46
17911500000	+65,35	-8,63	17912500000	+52,12	-1,86

21023340_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023341



FINAL RESULT TABLE

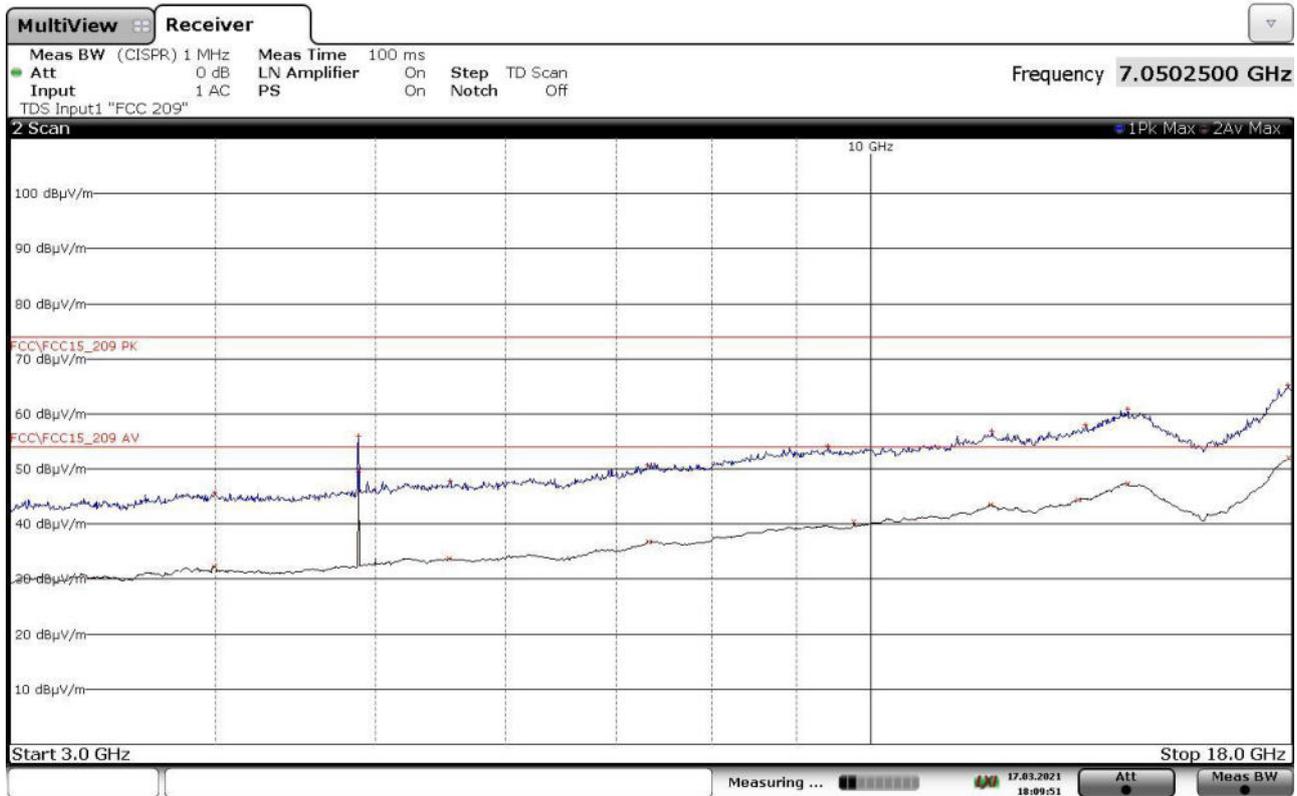
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3983250000	+45,97	-28,01	3992000000	+32,27	-21,71
4807750000	+54,54	-19,44	4808000000	+47,73	-6,25
6038250000	+48,34	-25,64	6007000000	+34,10	-19,88
7325250000	+50,39	-23,59	7322000000	+36,81	-17,17
9755250000	+53,82	-20,16	9615000000	+40,04	-13,94
10916000000	+55,27	-18,71	10874750000	+41,37	-12,61
13313250000	+57,39	-16,59	13313750000	+44,58	-9,40
14194000000	+60,57	-13,41	14191250000	+47,09	-6,89
17926500000	+65,10	-8,88	17910250000	+52,12	-1,86

21023341_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023342



FINAL RESULT TABLE

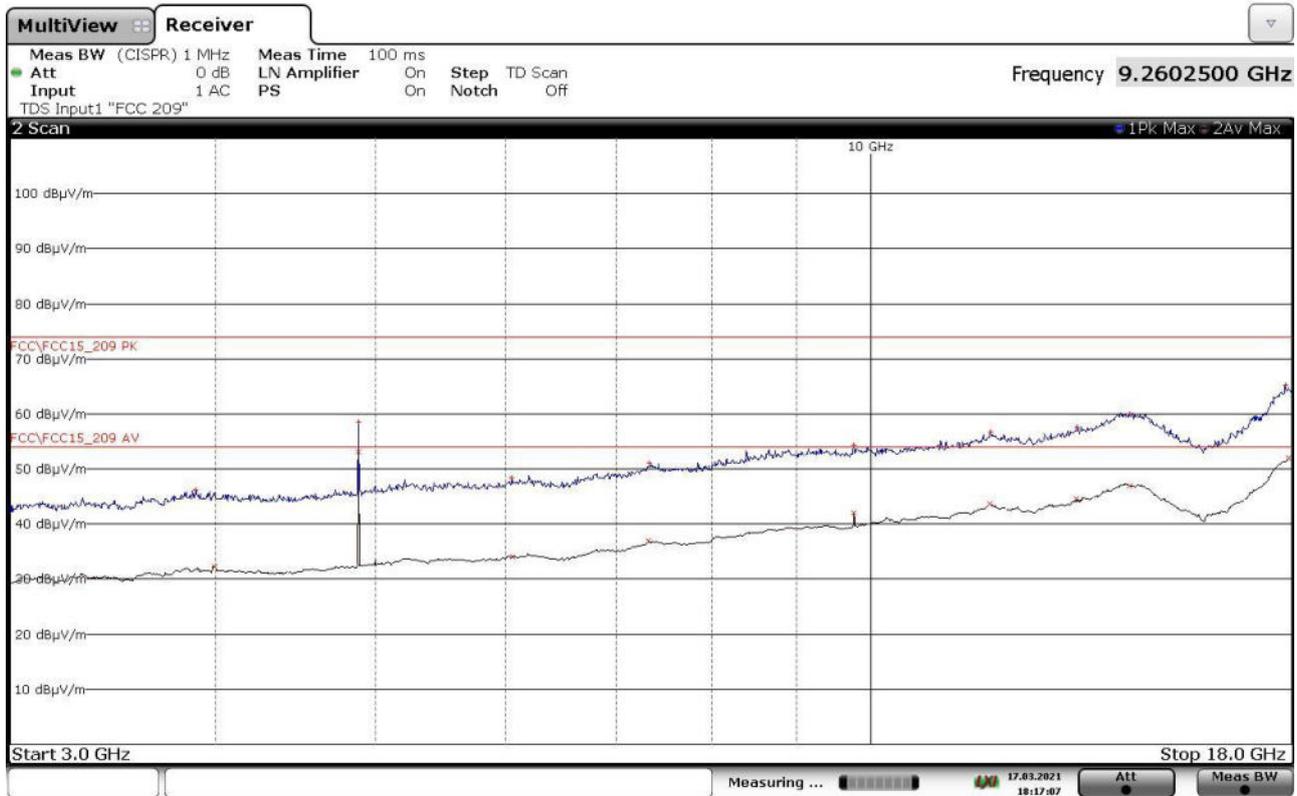
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3992250000	+45,73	-28,25	3992500000	+32,30	-21,68
4879500000	+55,96	-18,02	4880000000	+49,89	-4,09
5553250000	+47,77	-26,21	5540500000	+33,74	-20,24
7312000000	+50,76	-23,22	7320250000	+36,83	-17,15
9410750000	+54,14	-19,84	9761000000	+40,46	-13,52
11833750000	+56,99	-16,99	11818500000	+43,55	-10,43
13492250000	+57,99	-15,99	13350750000	+44,47	-9,51
14316750000	+60,85	-13,13	14315000000	+47,32	-6,66
17911500000	+65,16	-8,82	17925000000	+51,95	-2,03

21023342_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023343



FINAL RESULT TABLE

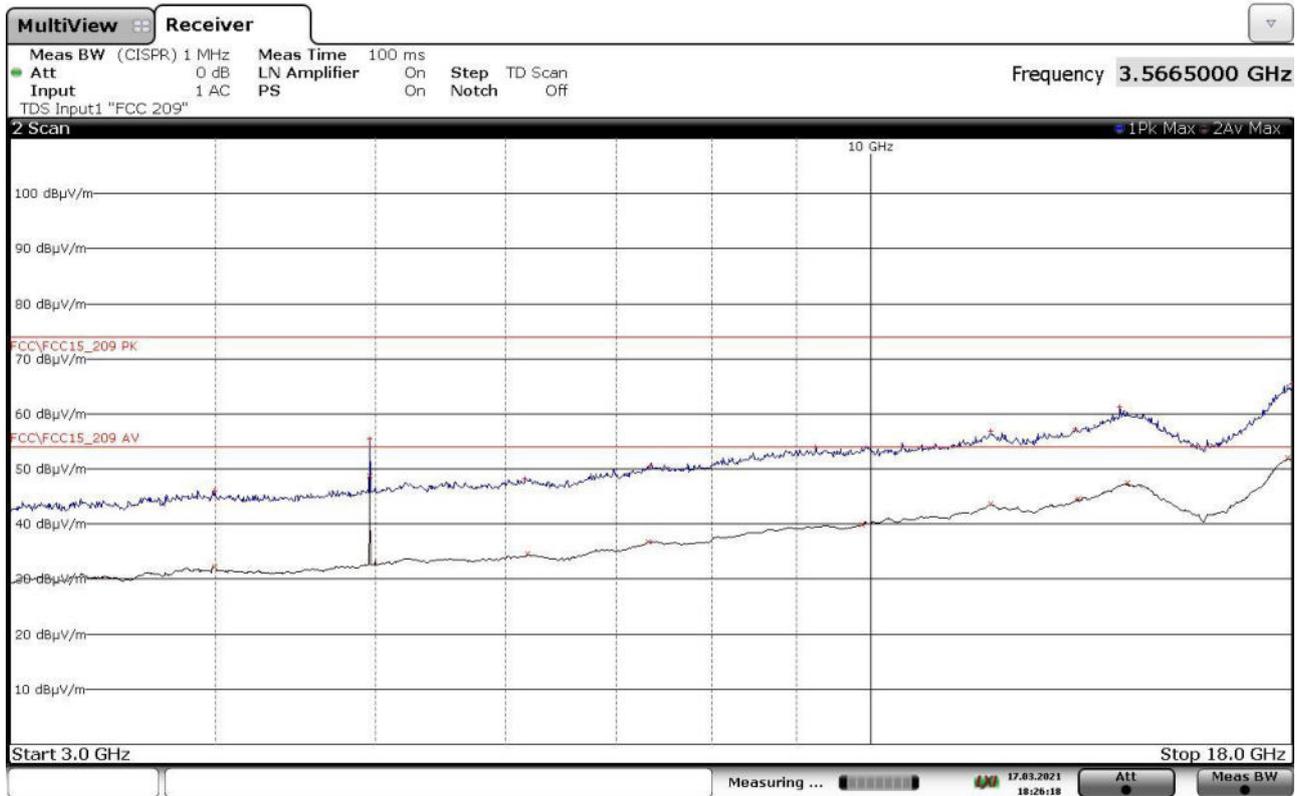
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3887750000	+46,30	-27,68	3992000000	+32,30	-21,68
4879750000	+58,52	-15,46	4880000000	+53,03	-0,95
6049000000	+48,32	-25,66	6058250000	+34,12	-19,86
7333250000	+51,07	-22,91	7320750000	+36,97	-17,01
9759500000	+54,42	-19,56	9759250000	+42,06	-11,92
11812750000	+56,72	-17,26	11801250000	+43,63	-10,35
13333000000	+57,56	-16,42	13318000000	+44,50	-9,48
14353250000	+60,01	-13,97	14356500000	+47,01	-6,97
17837000000	+65,24	-8,74	17911750000	+52,02	-1,96

21023343_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023344



FINAL RESULT TABLE

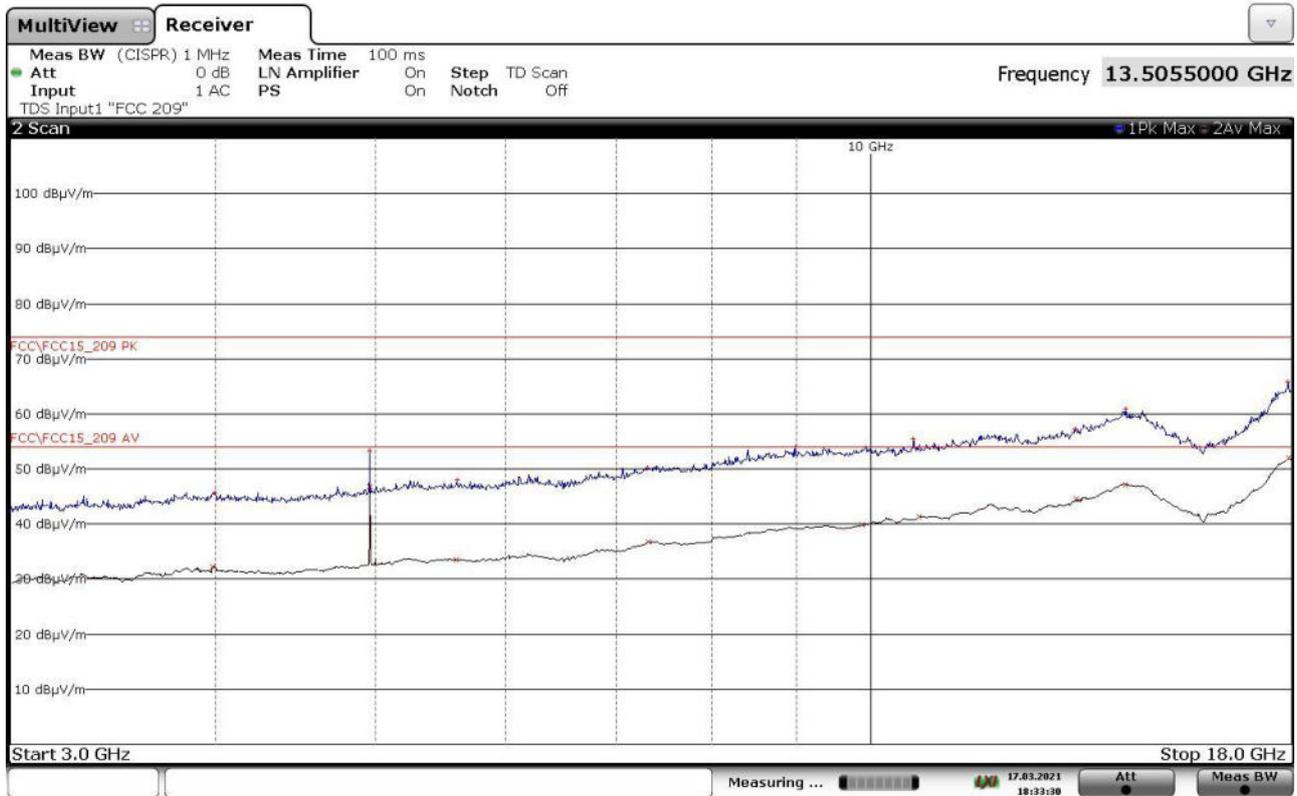
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3992500000	+46,09	-27,89	3992000000	+32,31	-21,67
4958250000	+55,44	-18,54	4958000000	+48,76	-5,22
6162250000	+48,20	-25,78	6183500000	+34,59	-19,39
7345500000	+50,51	-23,47	7323750000	+36,77	-17,21
9254250000	+54,08	-19,90	9869500000	+39,91	-14,07
11815750000	+56,94	-17,04	11816750000	+43,61	-10,37
13308250000	+57,31	-16,67	13351250000	+44,54	-9,44
14155500000	+61,27	-12,71	14316250000	+47,43	-6,55
17995250000	+65,33	-8,65	17911250000	+51,95	-2,03

21023344_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023345



FINAL RESULT TABLE

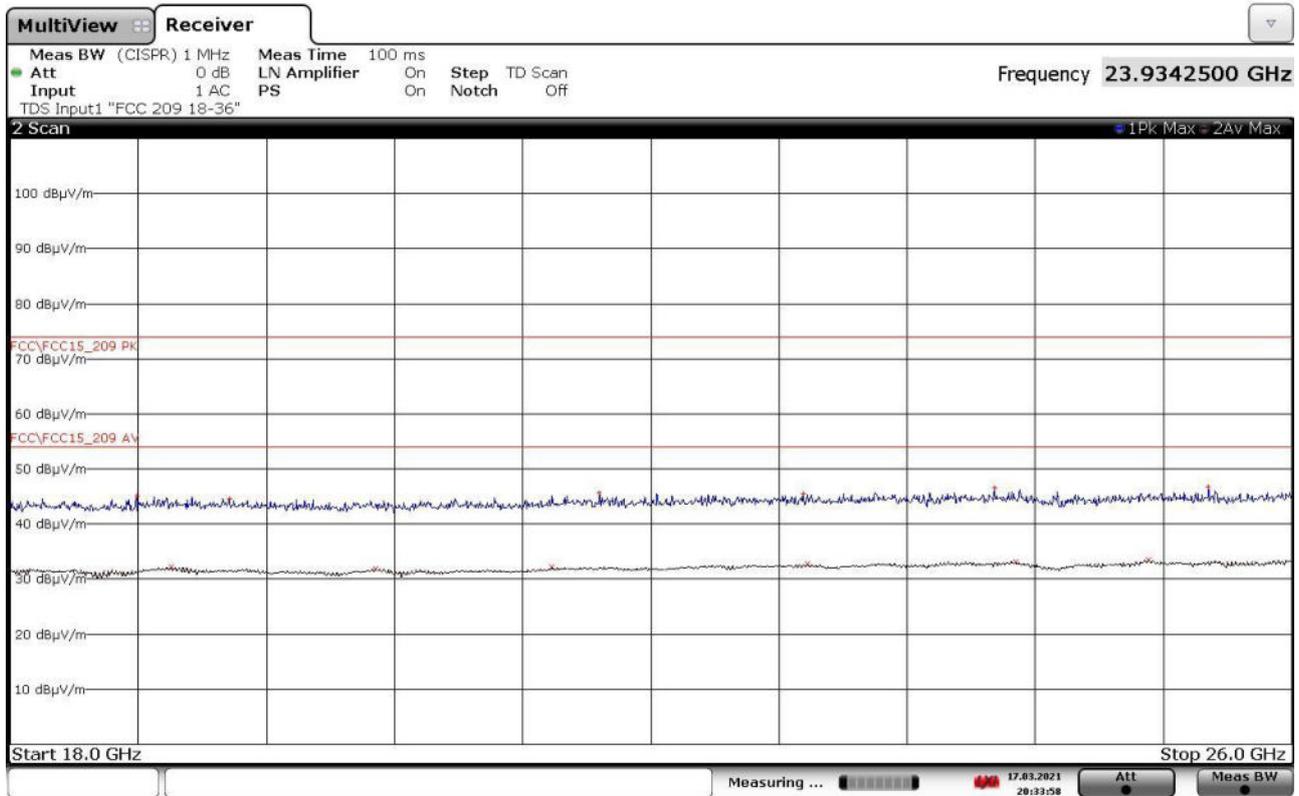
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3994250000	+45,73	-28,25	3978750000	+32,26	-21,72
4958000000	+53,21	-20,77	4958000000	+46,71	-7,27
5602500000	+48,07	-25,91	5600000000	+33,54	-20,44
7309250000	+50,27	-23,71	7322750000	+36,78	-17,20
8988500000	+54,03	-19,95	9869750000	+39,91	-14,07
10605500000	+55,40	-18,58	10696000000	+41,38	-12,60
13295250000	+57,34	-16,64	13315750000	+44,57	-9,41
14274750000	+60,83	-13,15	14276750000	+47,20	-6,78
17910750000	+65,73	-8,25	17923000000	+52,06	-1,92

21023345_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023346



FINAL RESULT TABLE

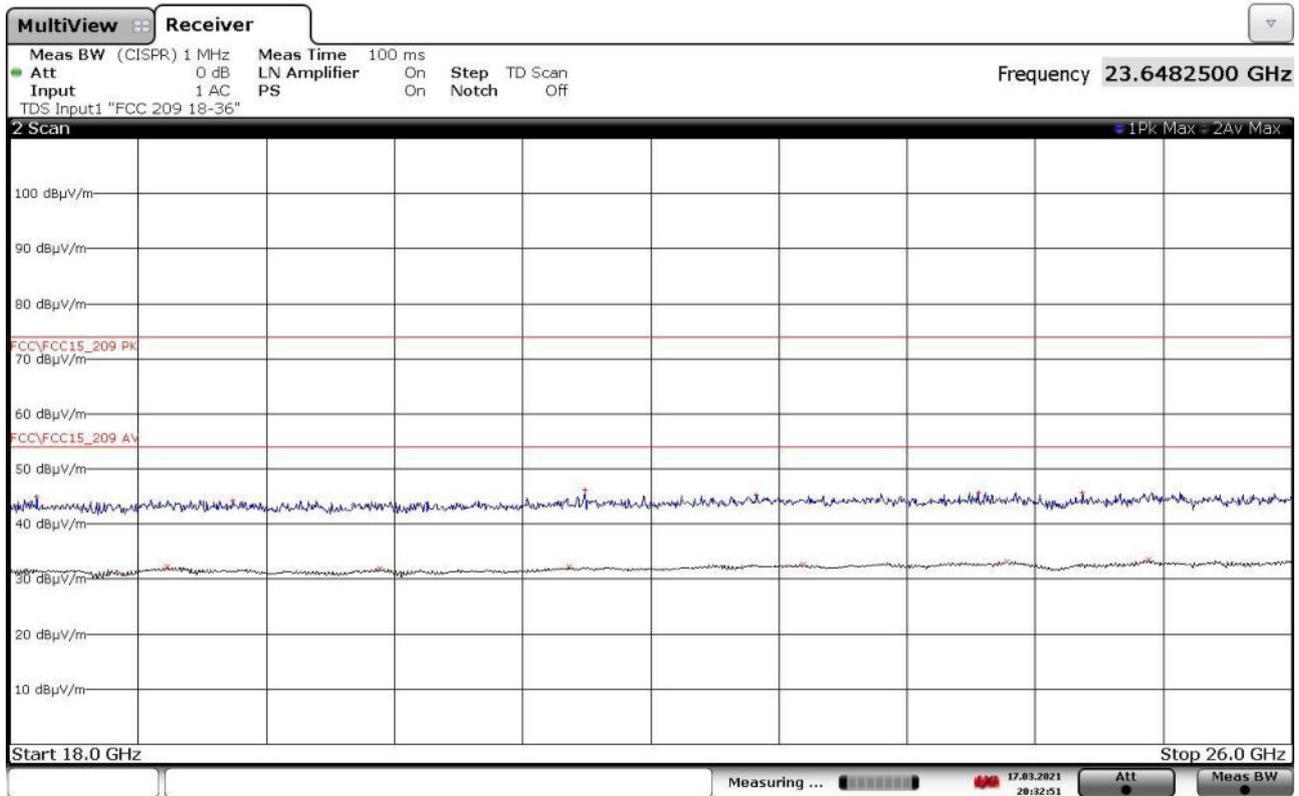
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18789000000	+45,04	-28,94	19003000000	+32,23	-21,75
19367250000	+44,66	-29,32	20280750000	+31,94	-22,04
21678750000	+45,62	-28,36	21384000000	+32,20	-21,78
22951000000	+45,54	-28,44	22978750000	+32,73	-21,25
24144750000	+46,49	-27,49	24275000000	+33,24	-20,74
25480250000	+46,78	-27,20	25106500000	+33,61	-20,37

21023346_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023347



FINAL RESULT TABLE

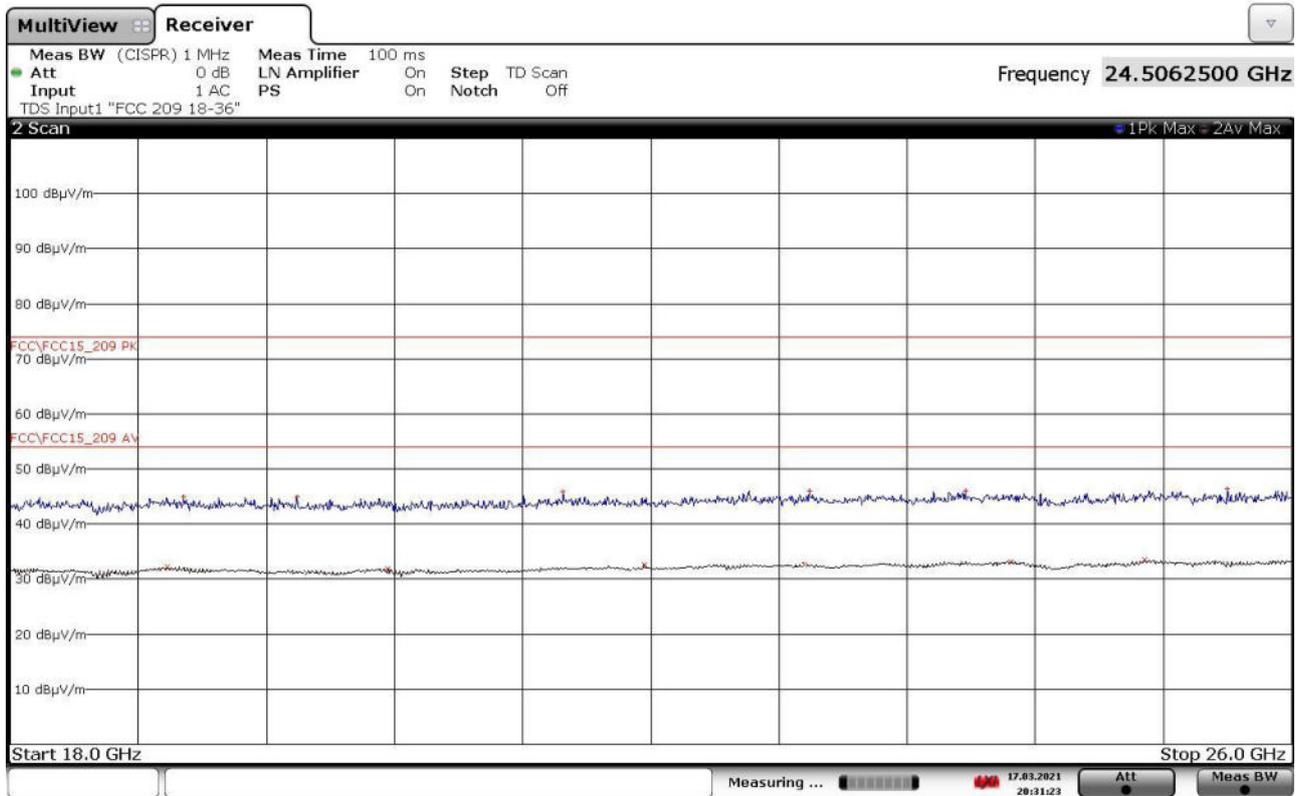
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18165500000	+45,01	-28,97	18982250000	+32,20	-21,78
19390500000	+44,24	-29,74	20306250000	+31,98	-22,00
21586000000	+46,22	-27,76	21487250000	+32,32	-21,66
22659750000	+45,24	-28,74	22950750000	+32,65	-21,33
24042750000	+45,75	-28,23	24222500000	+33,18	-20,80
24693750000	+45,71	-28,27	25108250000	+33,47	-20,51

21023347_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023348



FINAL RESULT TABLE

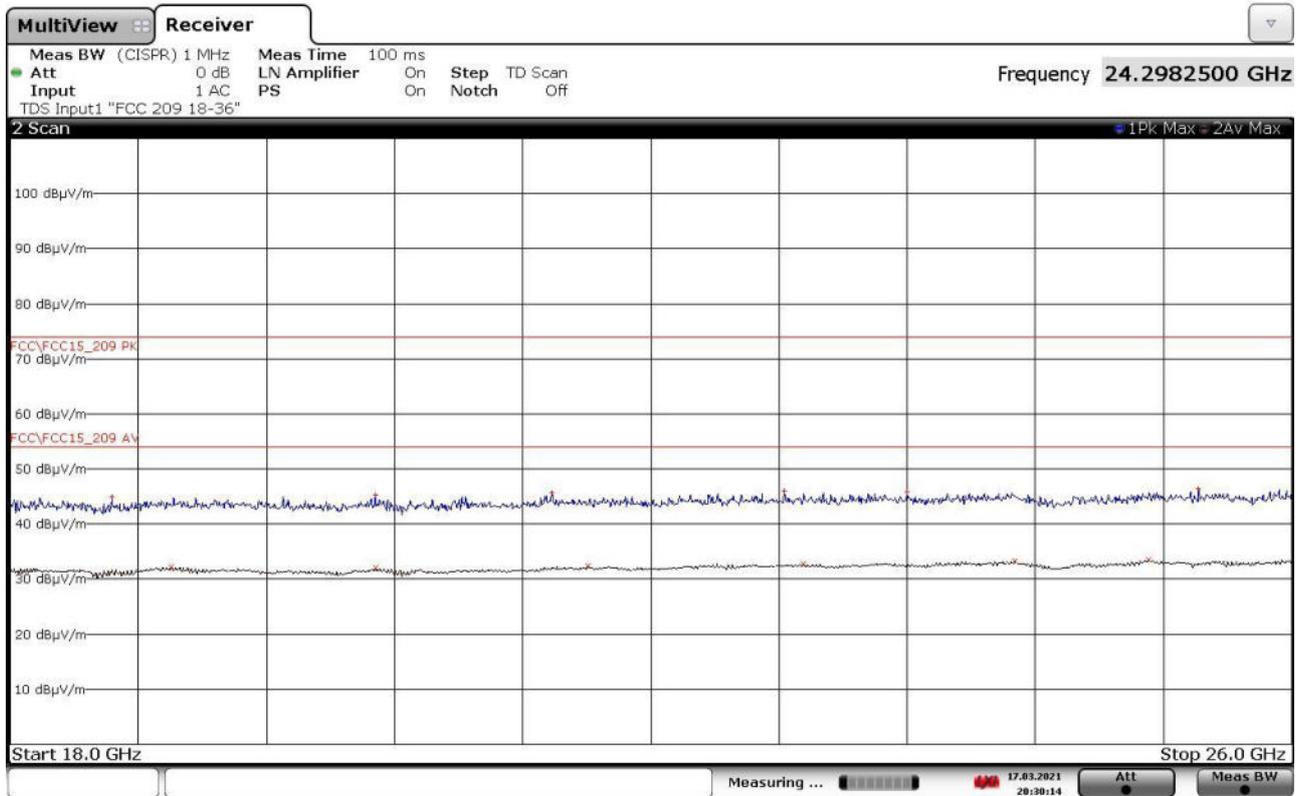
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
19080500000	+44,86	-29,12	18977500000	+32,20	-21,78
19788000000	+44,90	-29,08	20358750000	+31,91	-22,07
21451250000	+45,76	-28,22	21957500000	+32,55	-21,43
22989250000	+46,01	-27,97	22956500000	+32,71	-21,27
23964250000	+46,00	-27,98	24247500000	+33,20	-20,78
25599750000	+46,32	-27,66	25080250000	+33,61	-20,37

21023348_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023349



FINAL RESULT TABLE

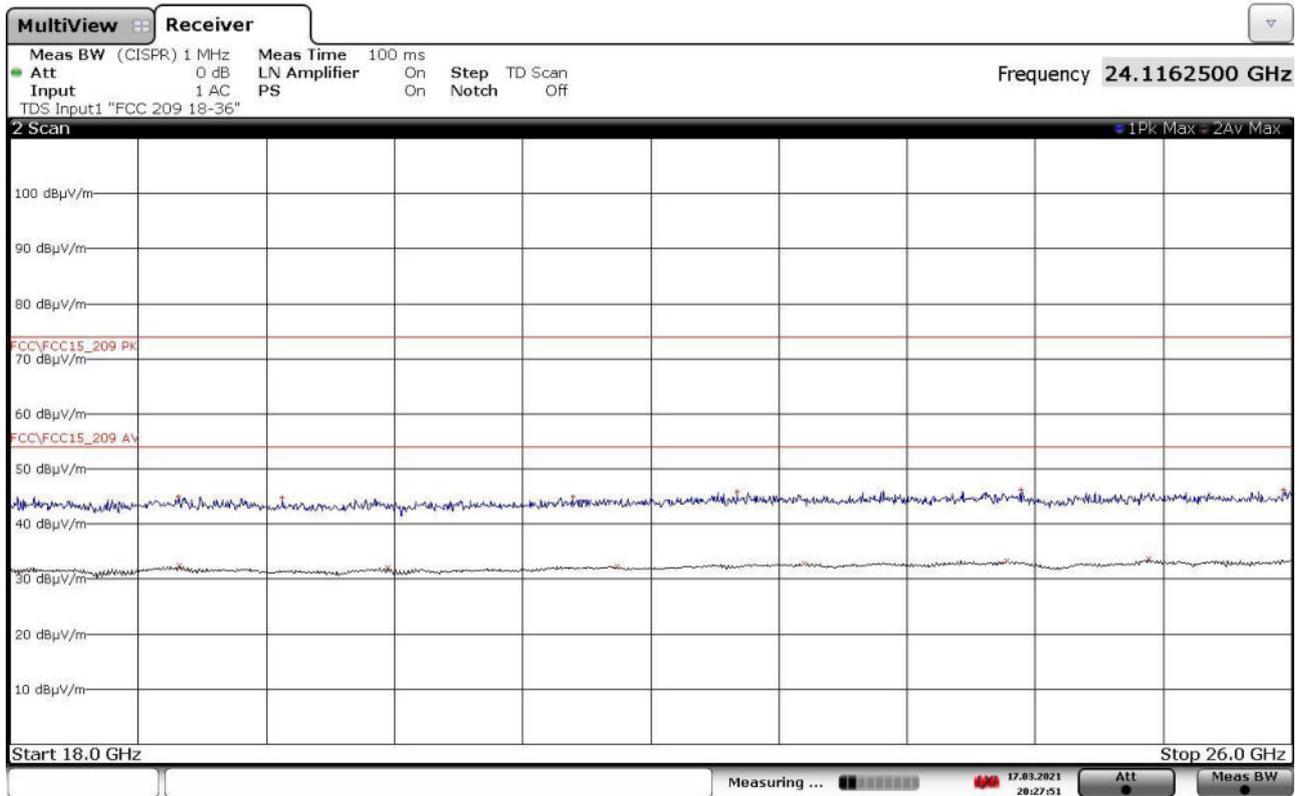
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18632500000	+44,99	-28,99	19003750000	+32,19	-21,79
20280000000	+45,22	-28,76	20280000000	+32,03	-21,95
21382500000	+45,74	-28,24	21605750000	+32,36	-21,62
22832250000	+46,06	-27,92	22951000000	+32,77	-21,21
23599000000	+45,77	-28,21	24273500000	+33,29	-20,69
25418250000	+46,36	-27,62	25108000000	+33,58	-20,40

21023349_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023350



FINAL RESULT TABLE

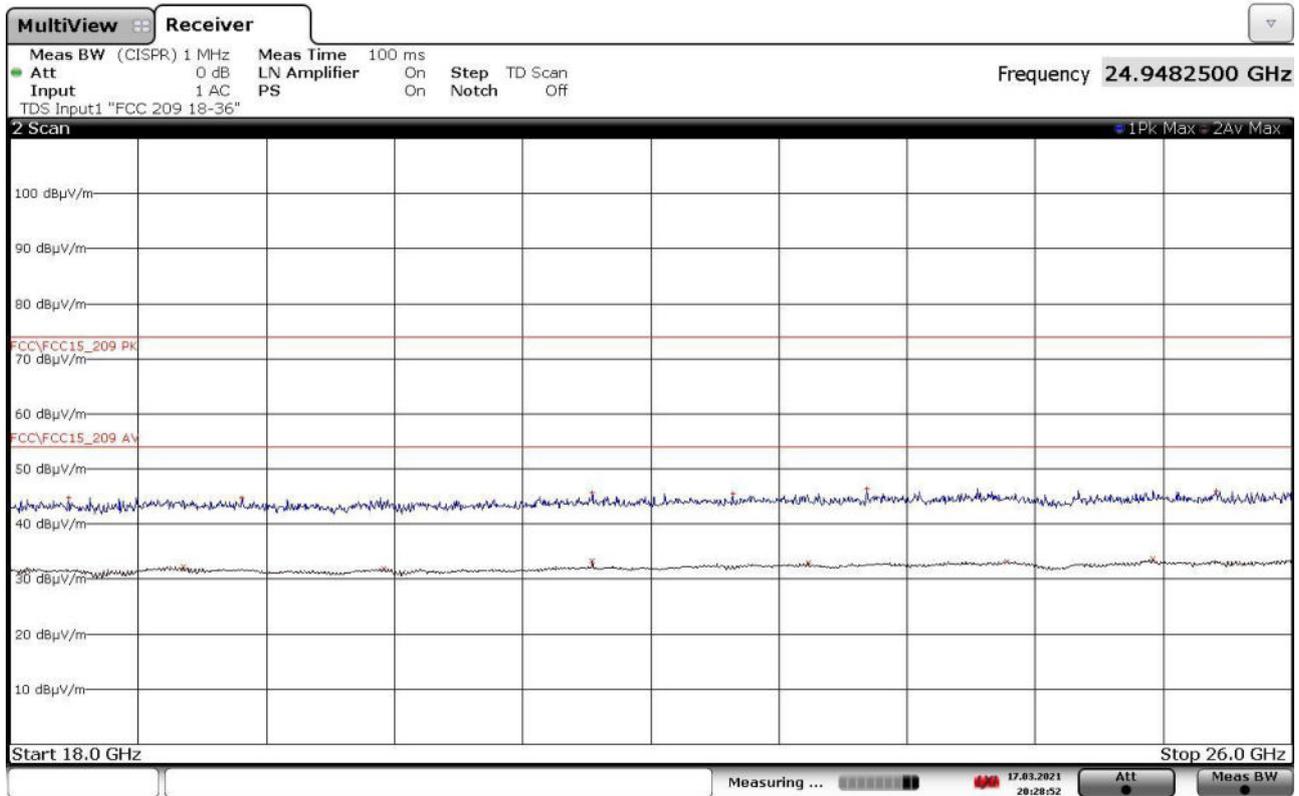
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
19051750000	+45,00	-28,98	19056250000	+32,37	-21,61
19695000000	+44,79	-29,19	20358000000	+32,08	-21,90
21512000000	+44,91	-29,07	21786750000	+32,33	-21,65
22538000000	+45,79	-28,19	22958250000	+32,83	-21,15
24307750000	+46,23	-27,75	24221250000	+33,35	-20,63
25948500000	+46,26	-27,72	25108000000	+33,73	-20,25

21023350_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023351



FINAL RESULT TABLE

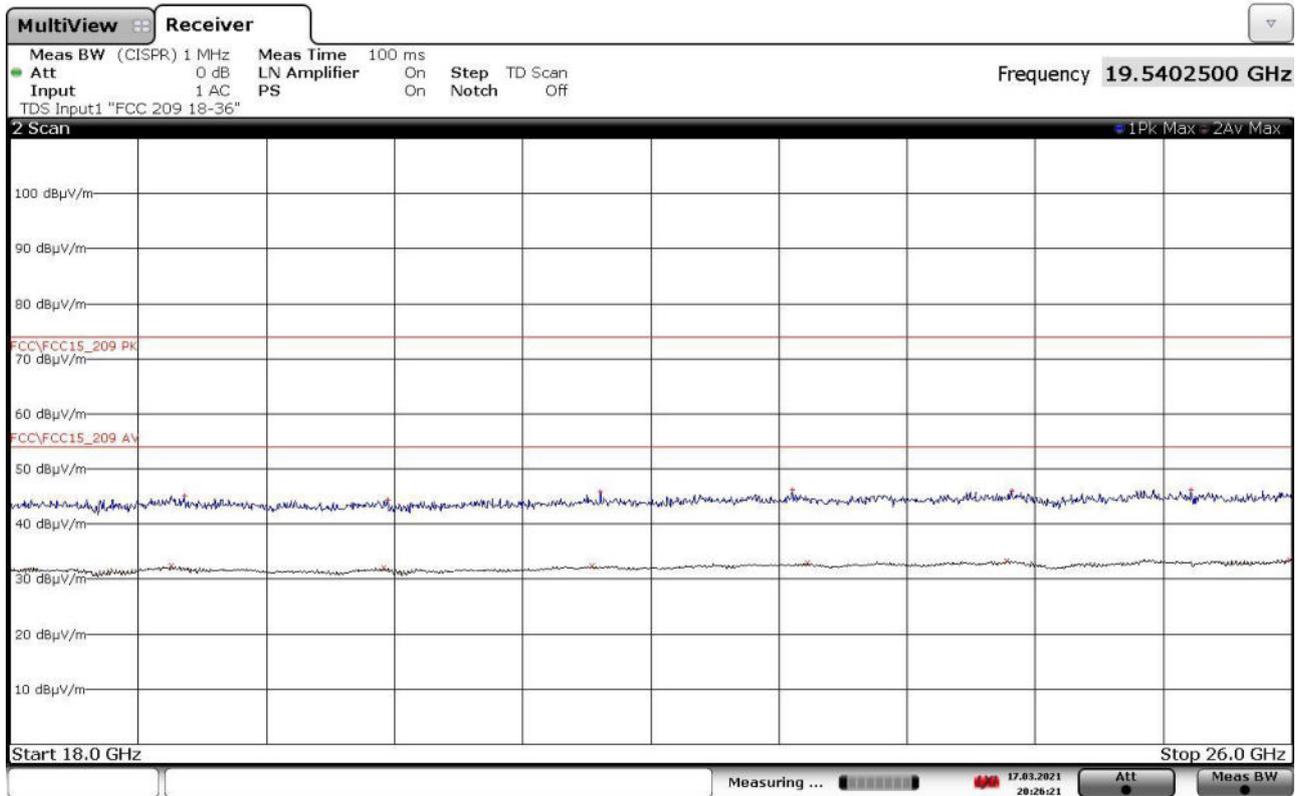
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18364250000	+44,77	-29,21	19081000000	+32,26	-21,72
19447500000	+44,82	-29,16	20332500000	+31,90	-22,08
21634250000	+45,70	-28,28	21634750000	+33,26	-20,72
22510750000	+45,52	-28,46	22980750000	+32,94	-21,04
23348500000	+46,39	-27,59	24221500000	+33,25	-20,73
25529000000	+46,03	-27,95	25133750000	+33,62	-20,36

21023351_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023352



FINAL RESULT TABLE

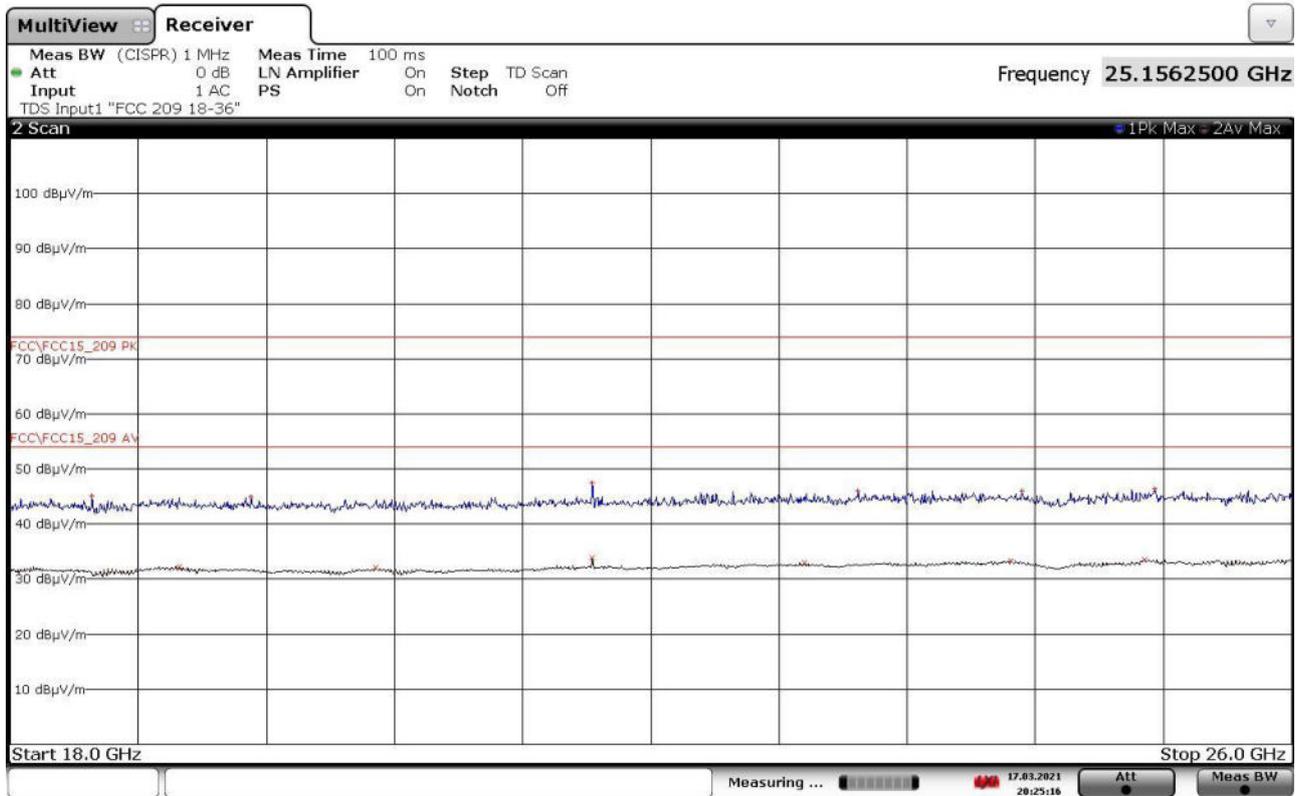
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
19086750000	+45,21	-28,77	19006750000	+32,44	-21,54
20356000000	+44,36	-29,62	20330500000	+32,11	-21,87
21685750000	+45,86	-28,12	21633250000	+32,49	-21,49
22883250000	+46,27	-27,71	22979750000	+32,94	-21,04
24250000000	+45,97	-28,01	24222000000	+33,32	-20,66
25369000000	+46,24	-27,74	25990500000	+33,61	-20,37

21023352_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023353



FINAL RESULT TABLE

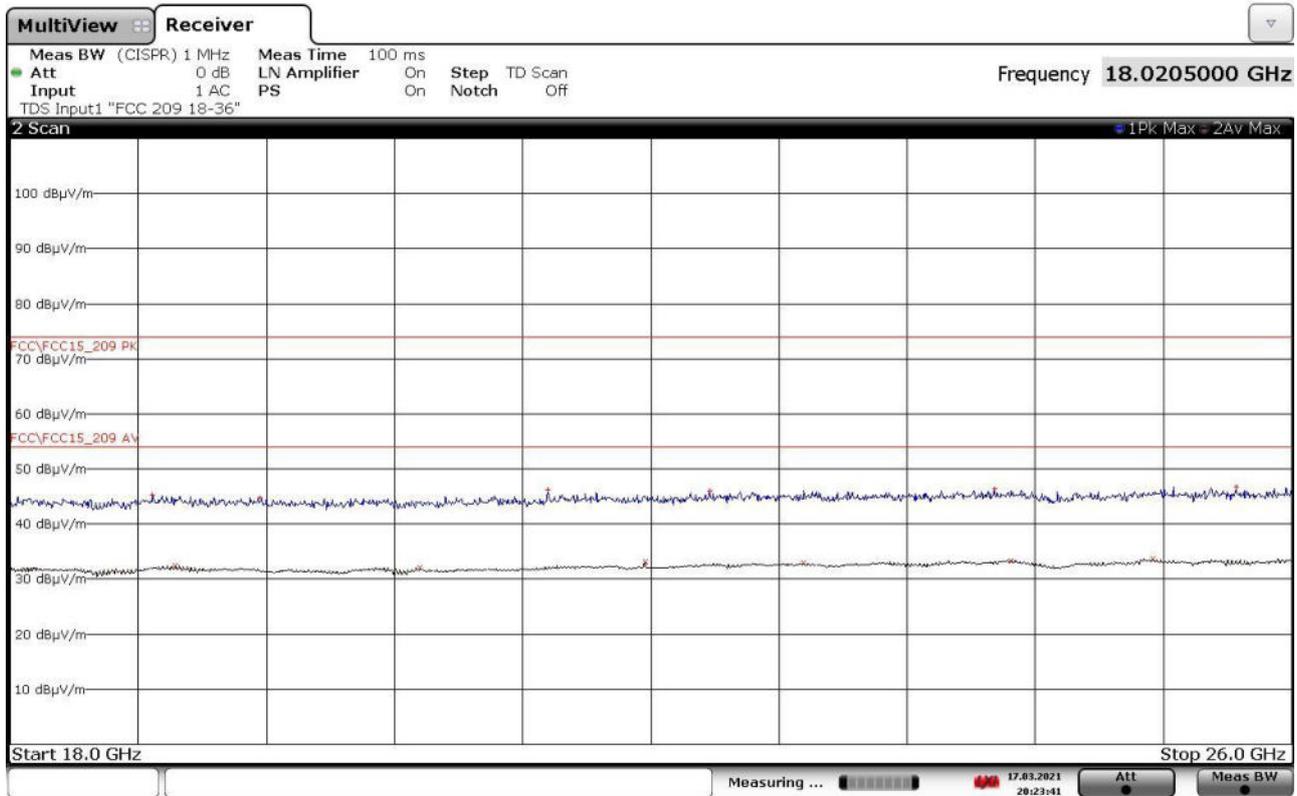
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18510000000	+45,10	-28,88	19056250000	+32,33	-21,65
19504000000	+44,97	-29,01	20281000000	+32,00	-21,98
21634500000	+47,44	-26,54	21635000000	+33,84	-20,14
23293500000	+45,96	-28,02	22956000000	+32,96	-21,02
24315250000	+46,03	-27,95	24249000000	+33,33	-20,65
25143750000	+46,36	-27,62	25080500000	+33,58	-20,40

21023353_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023354



FINAL RESULT TABLE

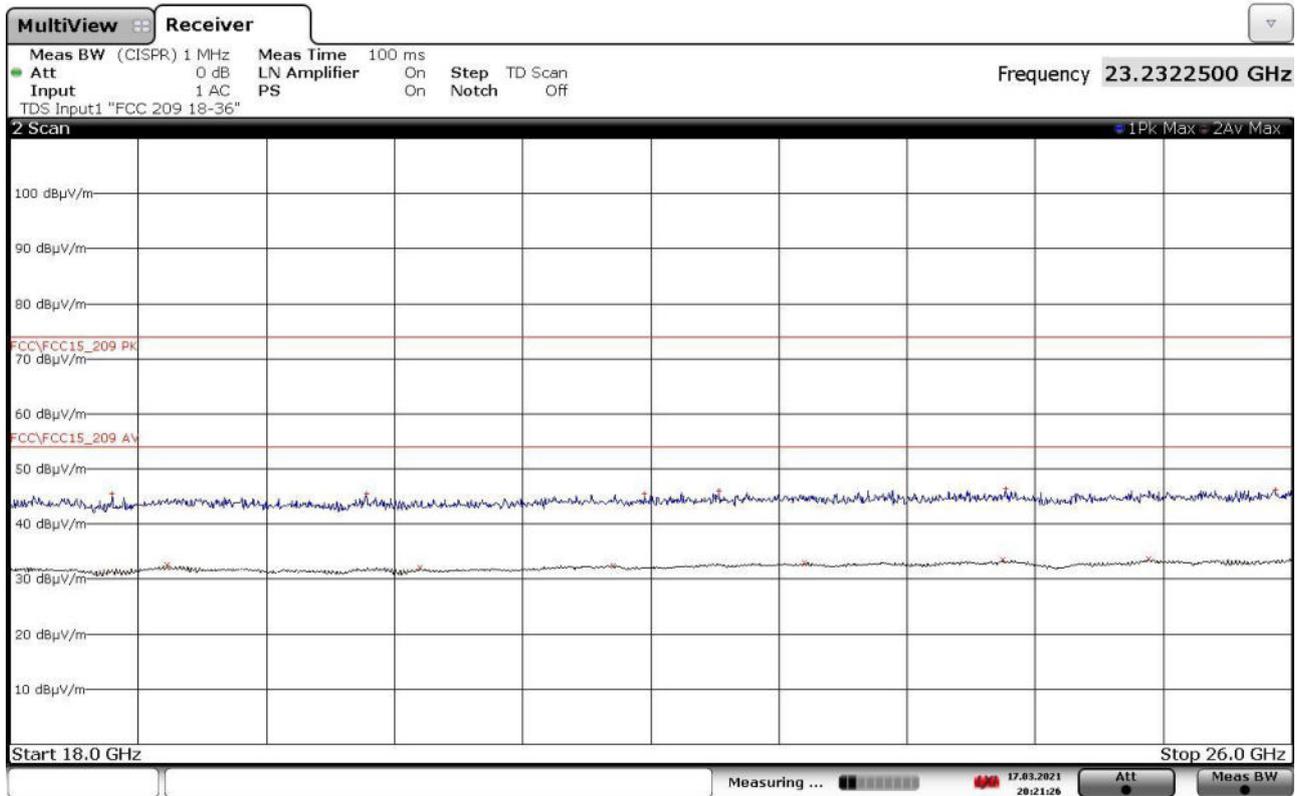
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18888000000	+45,34	-28,64	19031250000	+32,40	-21,58
19559250000	+44,73	-29,25	20559500000	+32,11	-21,87
21355500000	+46,14	-27,84	21963000000	+33,11	-20,87
22365750000	+46,12	-27,86	22954250000	+32,93	-21,05
24145250000	+46,44	-27,54	24248750000	+33,41	-20,57
25652750000	+46,78	-27,20	25132250000	+33,75	-20,23

21023354_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023355



FINAL RESULT TABLE

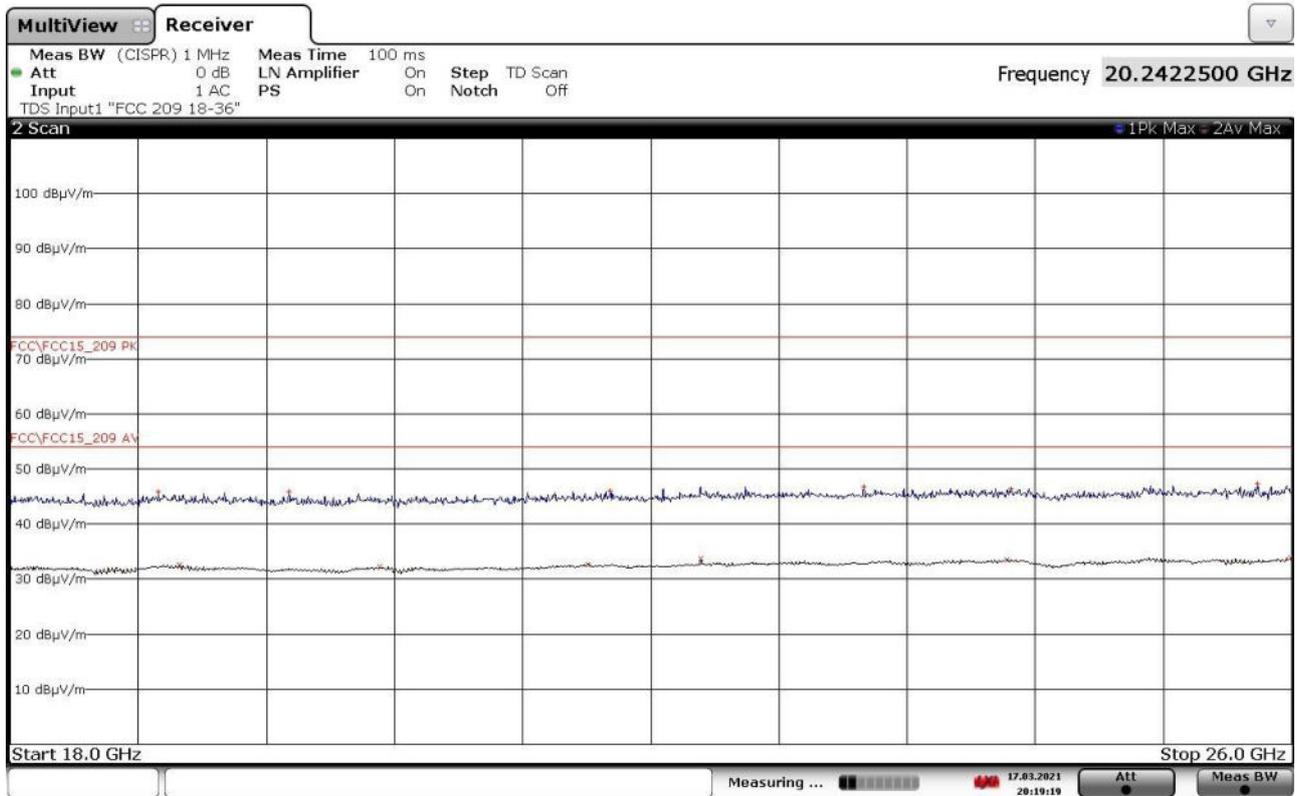
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18637500000	+45,47	-28,51	18979750000	+32,57	-21,41
20225250000	+45,40	-28,58	20559500000	+32,08	-21,90
21958750000	+45,52	-28,46	21762250000	+32,48	-21,50
22422250000	+45,99	-27,99	22955750000	+33,06	-20,92
24215000000	+46,31	-27,67	24197750000	+33,55	-20,43
25896750000	+46,16	-27,82	25105500000	+33,67	-20,31

21023355_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023356



FINAL RESULT TABLE

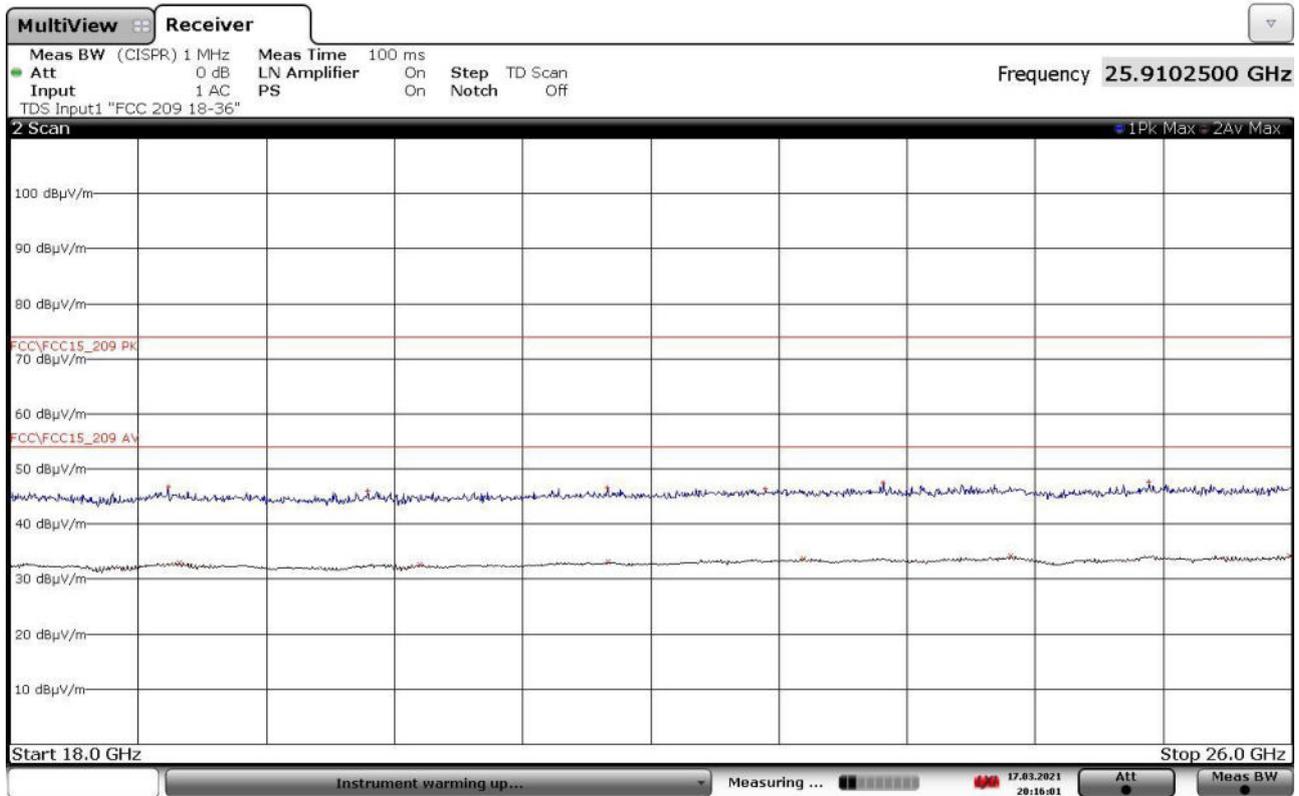
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18923500000	+45,76	-28,22	19055250000	+32,61	-21,37
19740750000	+45,87	-28,11	20306500000	+32,32	-21,66
21746750000	+46,02	-27,96	21609000000	+32,71	-21,27
23328750000	+46,84	-27,14	22311250000	+33,73	-20,25
24247500000	+46,46	-27,52	24223250000	+33,61	-20,37
25786000000	+47,36	-26,62	25990750000	+33,93	-20,05

21023356_2

CMC Centro Misure Compatibilità S.r.l.



Gandini 21023357



FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18984250000	+46,75	-27,23	19054750000	+32,99	-20,99
20231750000	+46,01	-27,97	20557500000	+32,68	-21,30
21729500000	+46,53	-27,45	21735500000	+33,08	-20,90
22713250000	+46,48	-27,50	22954250000	+33,73	-20,25
23450250000	+47,54	-26,44	24247000000	+34,17	-19,81
25106250000	+47,64	-26,34	25989500000	+34,30	-19,68

21023357_2

CMC Centro Misure Compatibilità S.r.l.

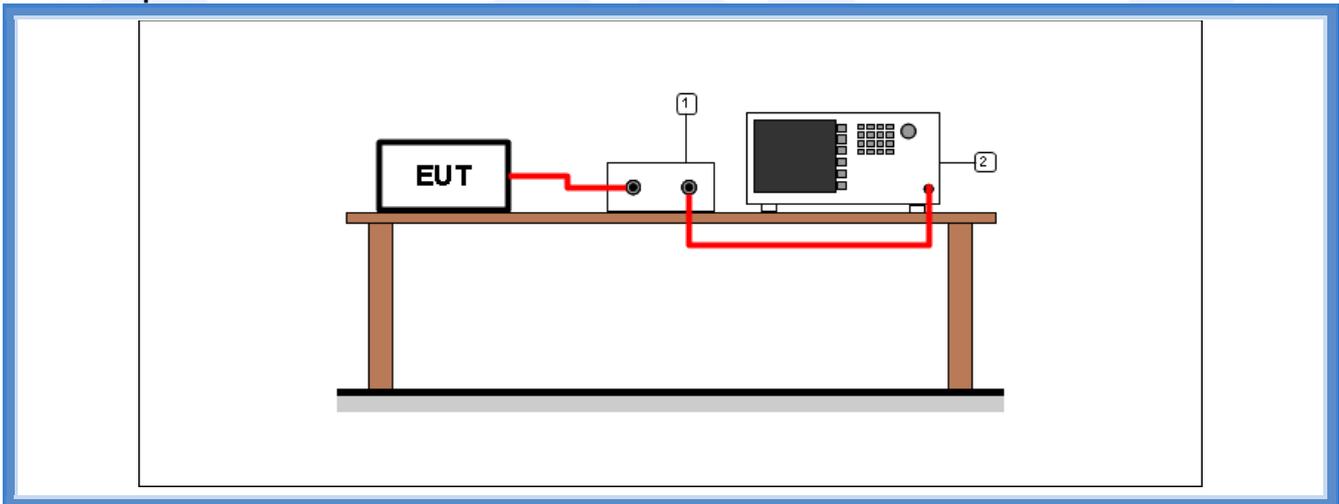
9.3 DTS bandwidth

Tested by	G. Gandini
Test date	23.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (a) (2) ANSI C63.10 cl. 11.8 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.2
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz

Test setup



Test setup PR002_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)



Result

Chip A

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>6 dB bandwidth (kHz)</i>	<i>Minimum 6 dB bandwidth allowed (kHz)</i>	<i>Results</i>
2404	G21023358	986,00	500	Complies
2440	G21023359	989,10	500	Complies
2479	G21023360	992,00	500	Complies

Chip B

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>6 dB bandwidth (kHz)</i>	<i>Minimum 6 dB bandwidth allowed (kHz)</i>	<i>Results</i>
2404	G21023378	983,00	500	Complies
2440	G21023379	983,00	500	Complies
2479	G21023380	989,00	500	Complies



Graphs

Gandini 21023358



Gandini 21023359

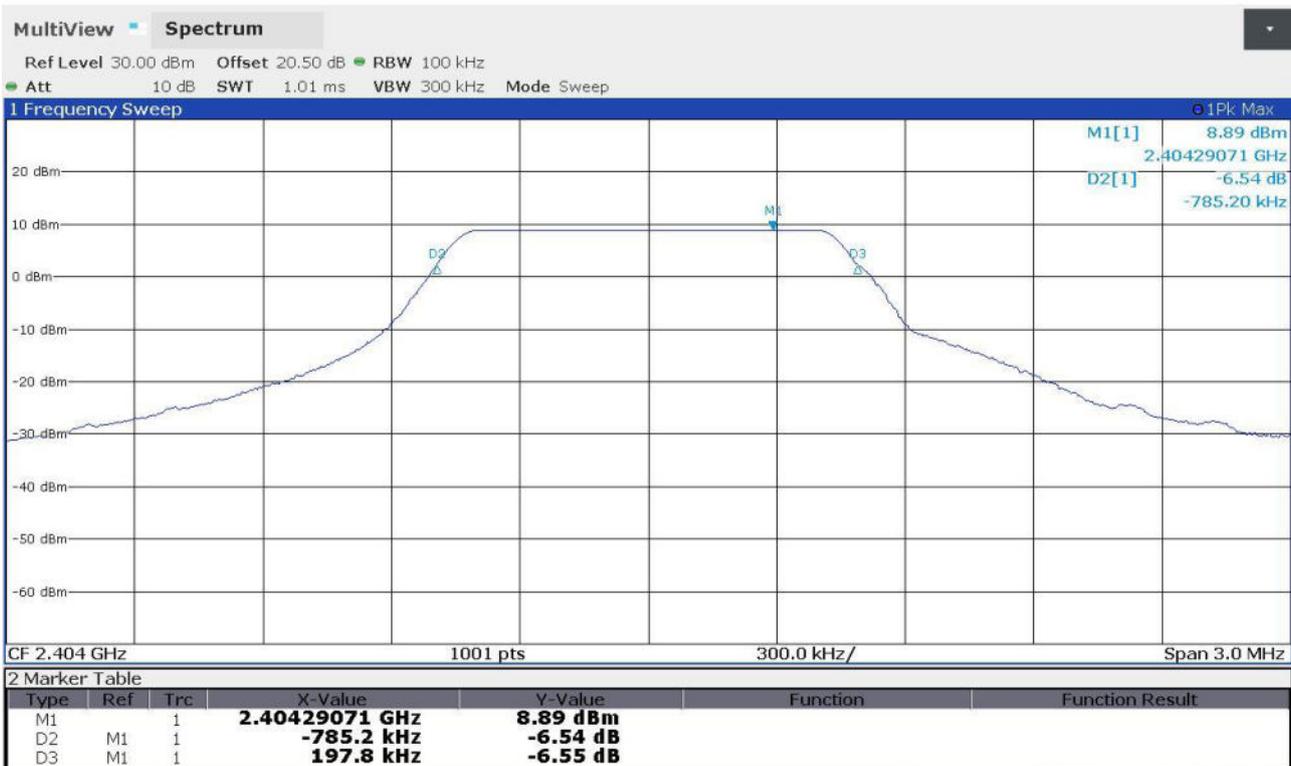




Gandini 21023360



Gandini 21023378



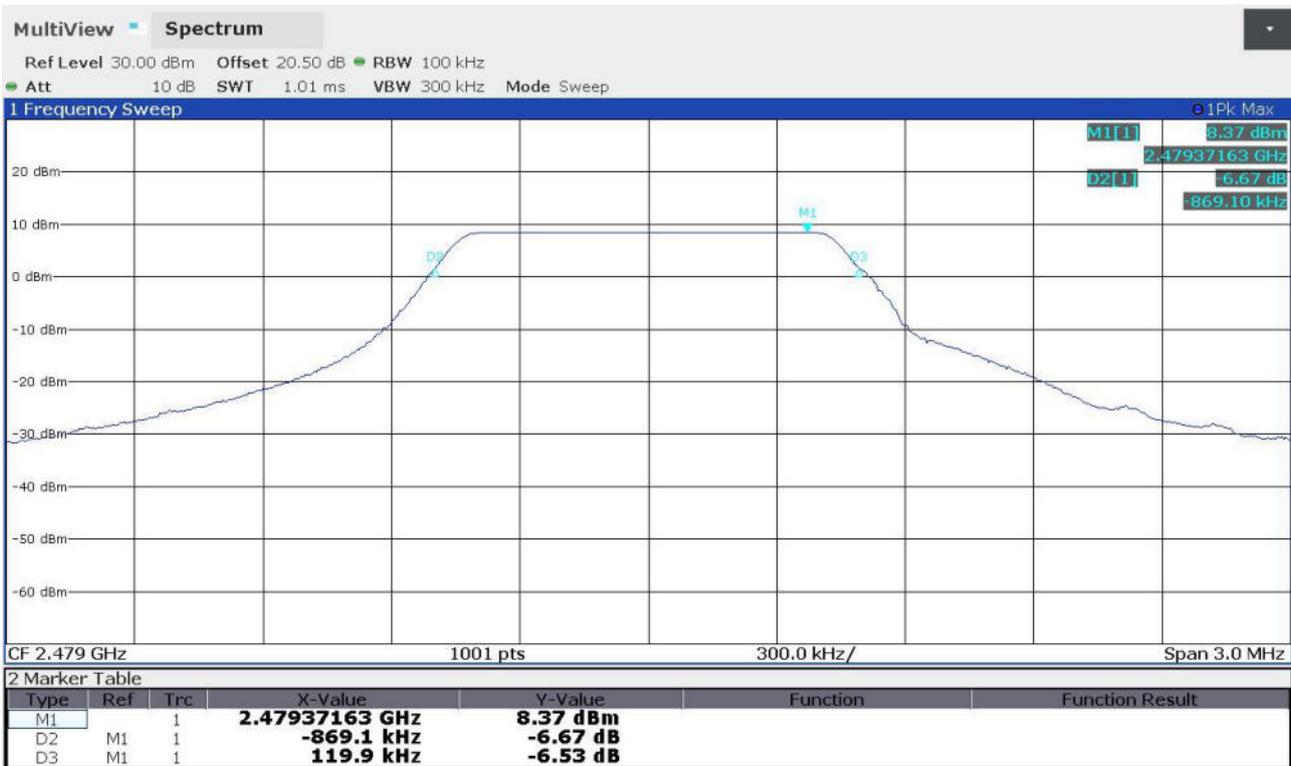
CMC Centro Misure Compatibilità S.r.l.



Gandini 21023379



Gandini 21023380



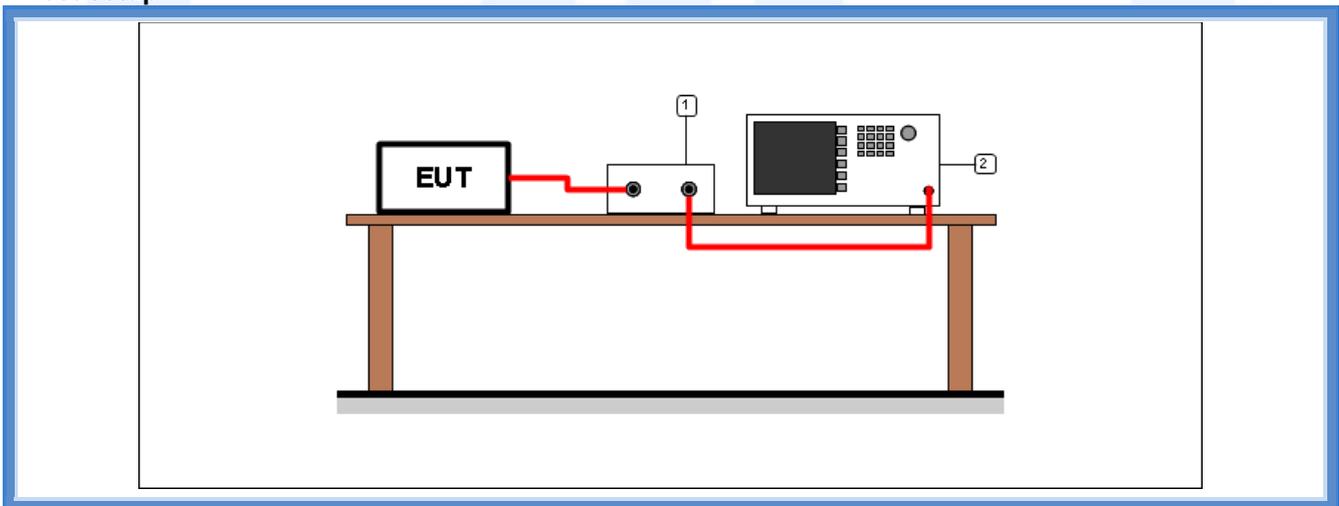
9.4 20 dB bandwidth

Tested by	G. Gandini
Test date	23.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.215 (c) ANSI C63.10 cl. 7.8.7
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)



Result

Chip A

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>20 dB bandwidth (kHz)</i>	<i>Results</i>
2404	G21023366	950,10	Complies
2440	G21023365	944,10	Complies
2479	G21023364	947,10	Complies

Chip B

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>20 dB bandwidth (kHz)</i>	<i>Results</i>
2404	G21023384	941,10	Complies
2440	G21023385	941,10	Complies
2479	G21023386	944,10	Complies



Graphs

Gandini 21023364



Gandini 21023365

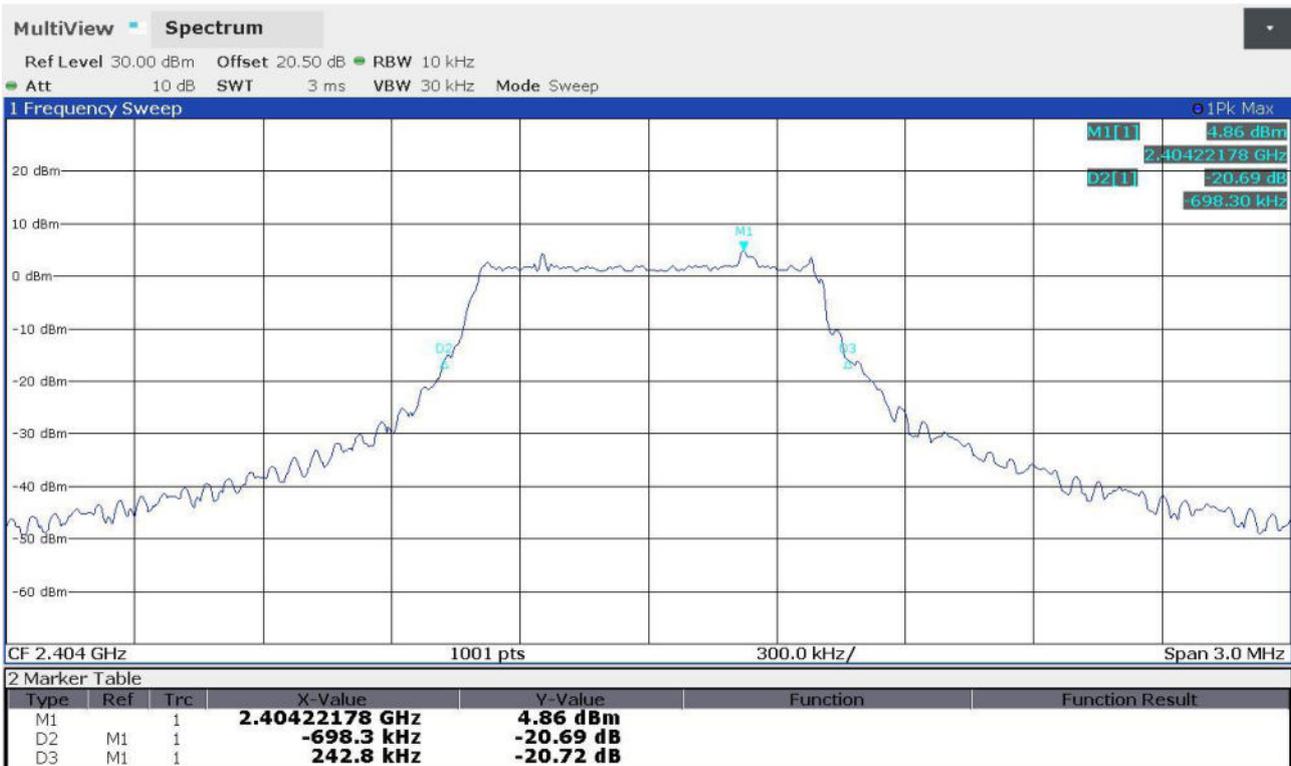




Gandini 21023366



Gandini 21023384



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Gandini 21023385



Gandini 21023386



CMC Centro Misure Compatibilità S.r.l.

9.5 Band edge

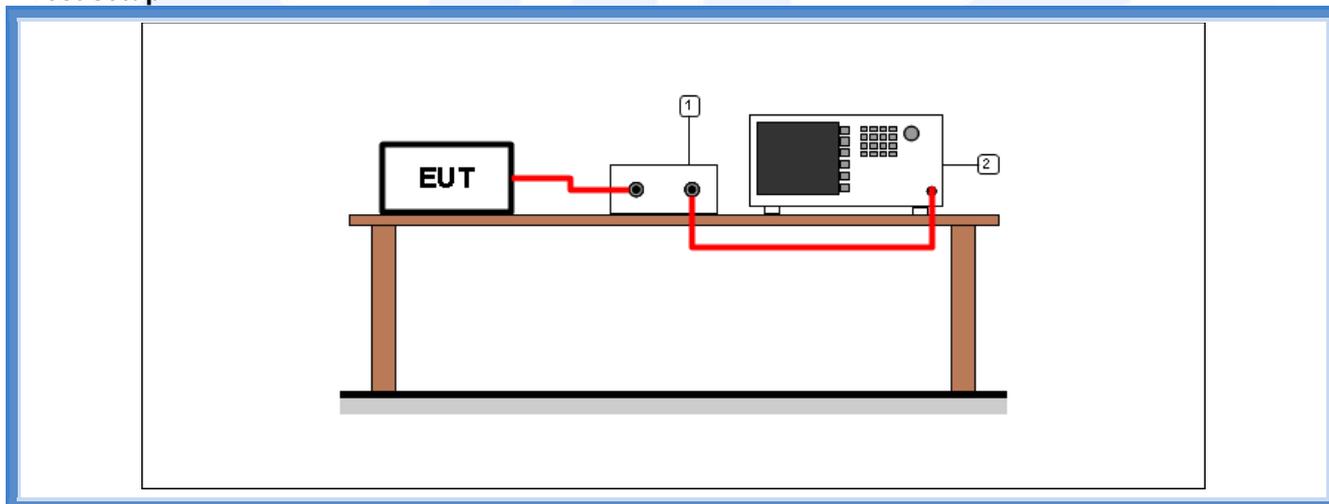
Tested by	G. Gandini
Test date	15.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.205, 15.209, 15.247 (d) ANSI C63.10 cl. 11.11.1 and 11.12.1 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.7
Supplementary test set-up description	--
Supplementary information	--

Acceptance limits

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Operation within the band 2400 – 2483,5 MHz

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)



Result

Chip A

Frequency (MHz)	Bandwidth	Graph(s)	Results	
2404	1 MHz	G21023324	--	*
2404	100 kHz	G21023376	2403,131 MHz	Complies
2479	1 MHz	G21023329	2481,862 MHz	Complies
2479	1 MHz	G21023330	--	**

*: this graph shows the emissions in 2310 – 2390 MHz restricted band

** : this graph shows the emissions in 2483,5 – 2500 MHz restricted band

Chip B

Frequency (MHz)	Bandwidth	Graph(s)	Results	
2404	100 kHz	G21023377	2403,141 MHz	Complies

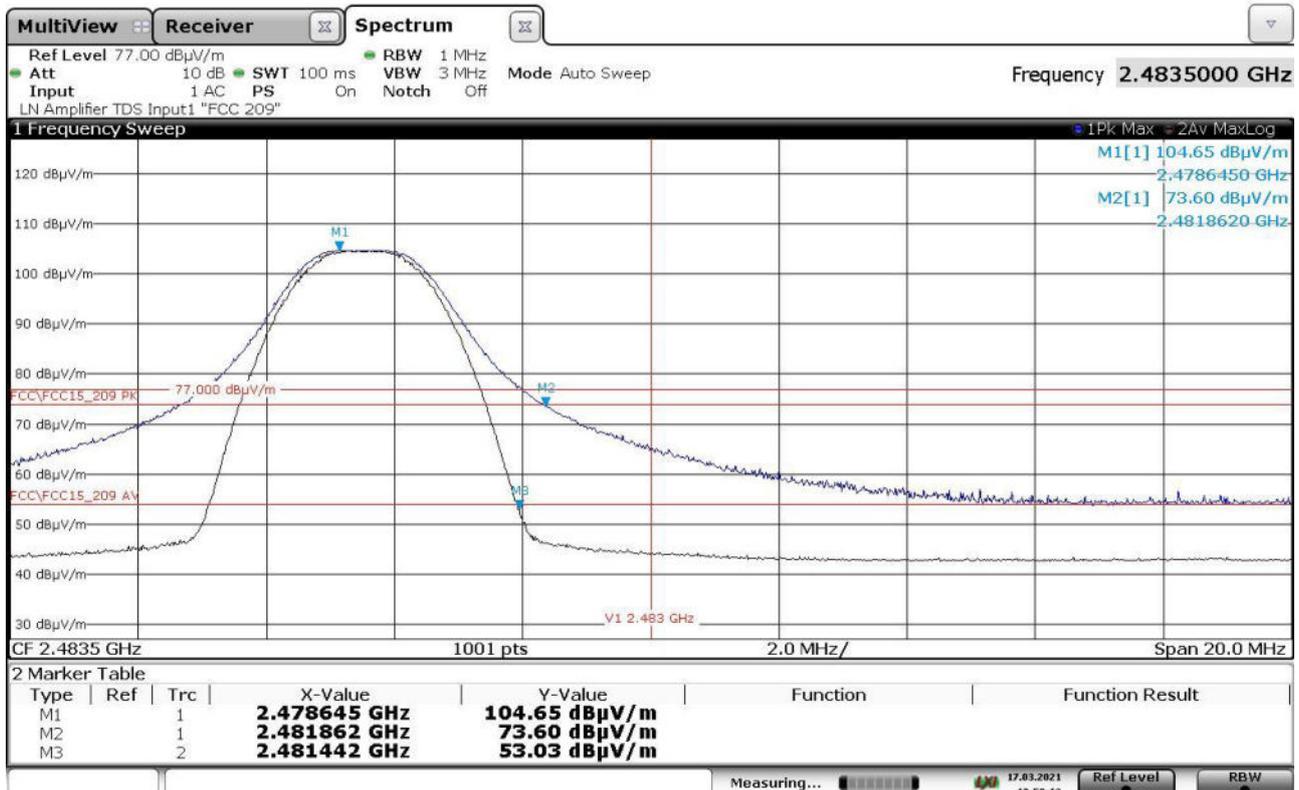


Graphs

Gandini 21023324



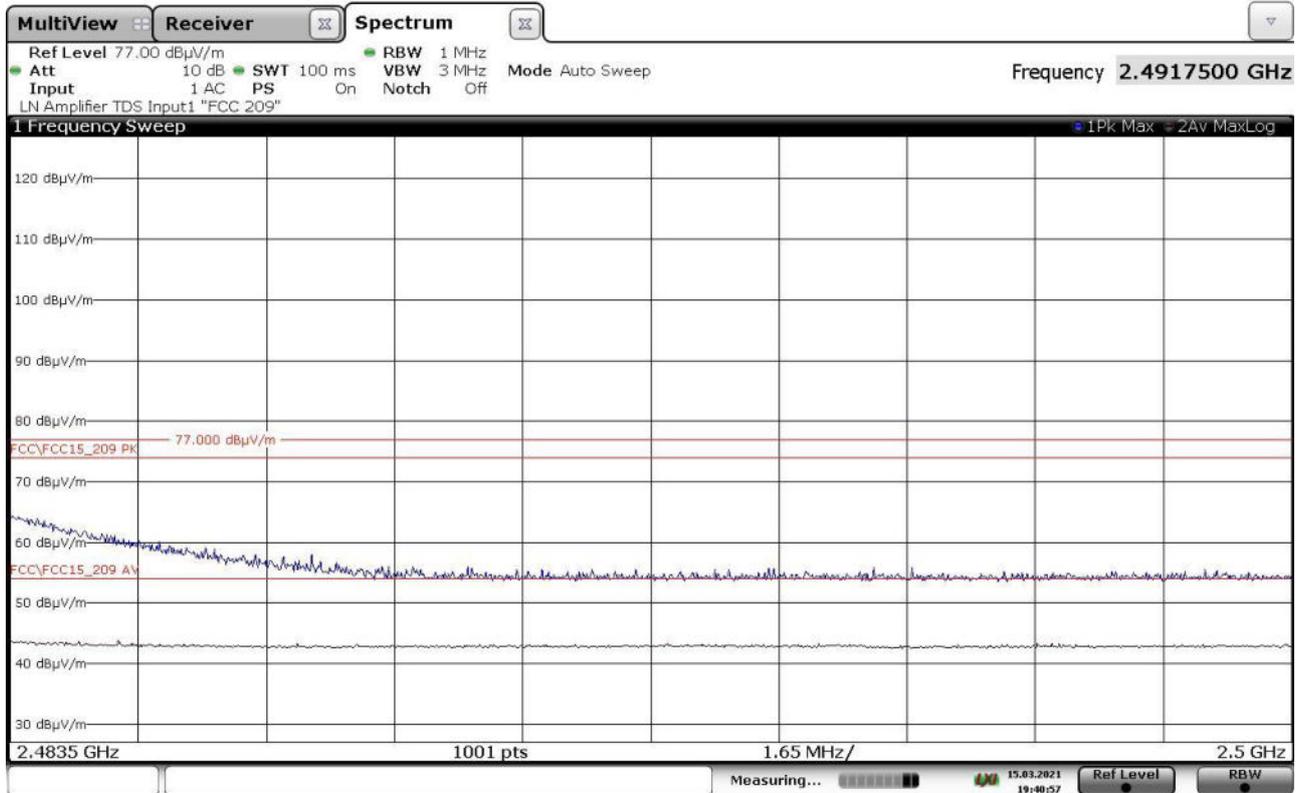
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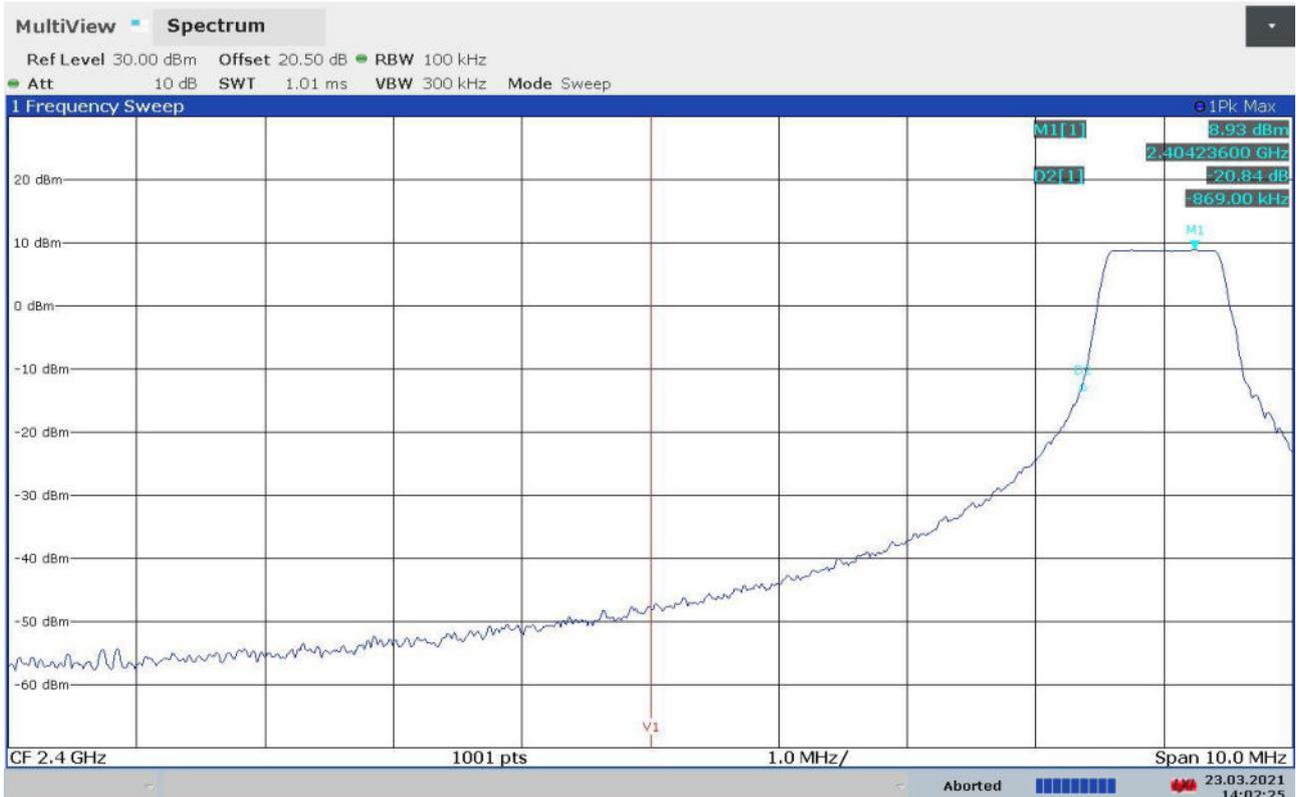
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Gandini 21023330



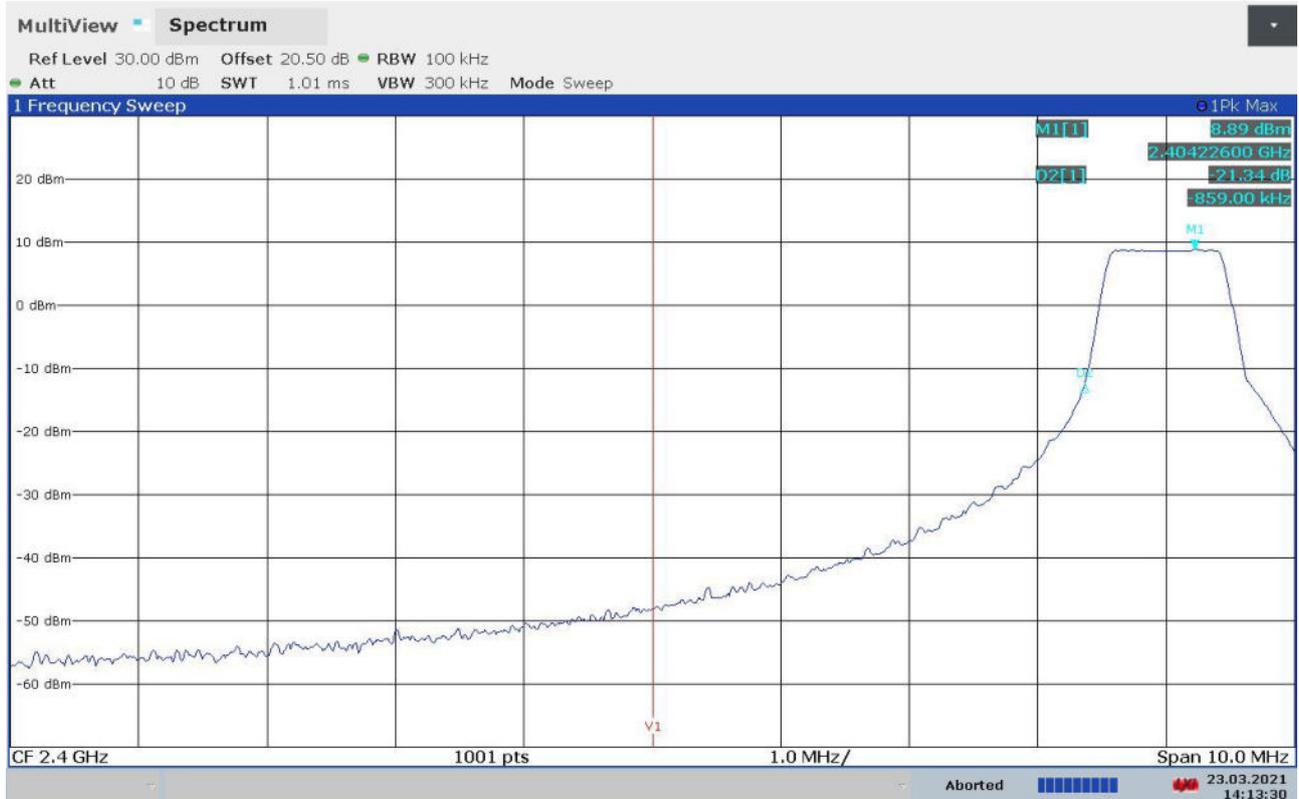
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Gandini 21023377



CMC Centro Misure Compatibilità S.r.l.

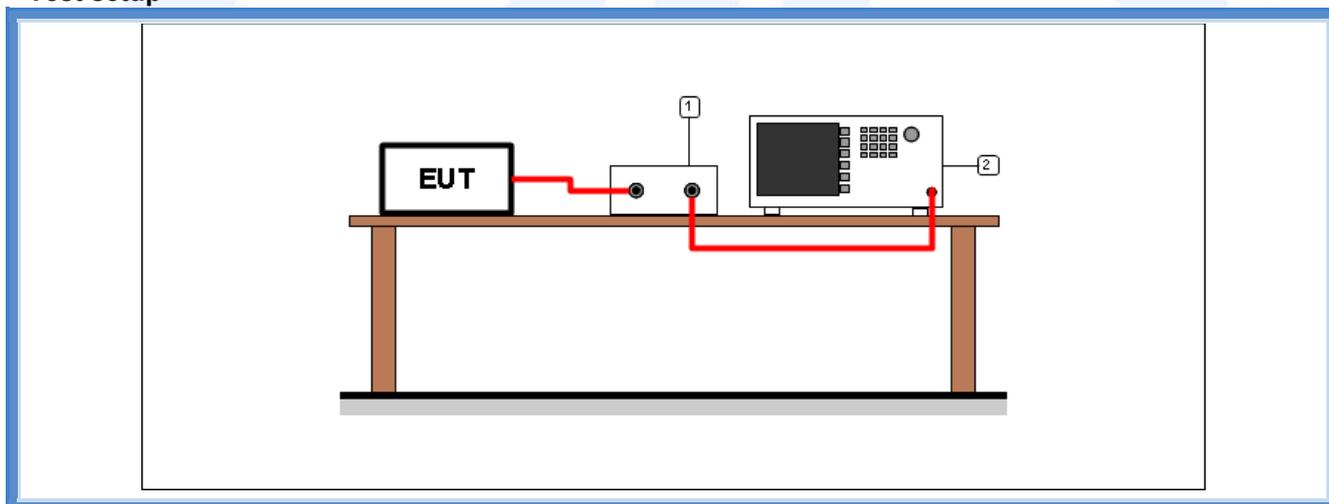
9.6 Fundamental emission output power

Tested by	G. Gandini
Test date	24.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (b) (3) ANSI C63.10 cl. 11.9.1.1 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.3.1.1
Supplementary test set-up description	--

Acceptance limits

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt

Test setup



Test setup PR002_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)



Result

Chip A

Frequency (MHz)	Graphs	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW)
2404	G21023369	8,42	6,95	1000
2440	G21023368	8,13	6,50	1000
2479	G21023367	7,90	6,17	1000

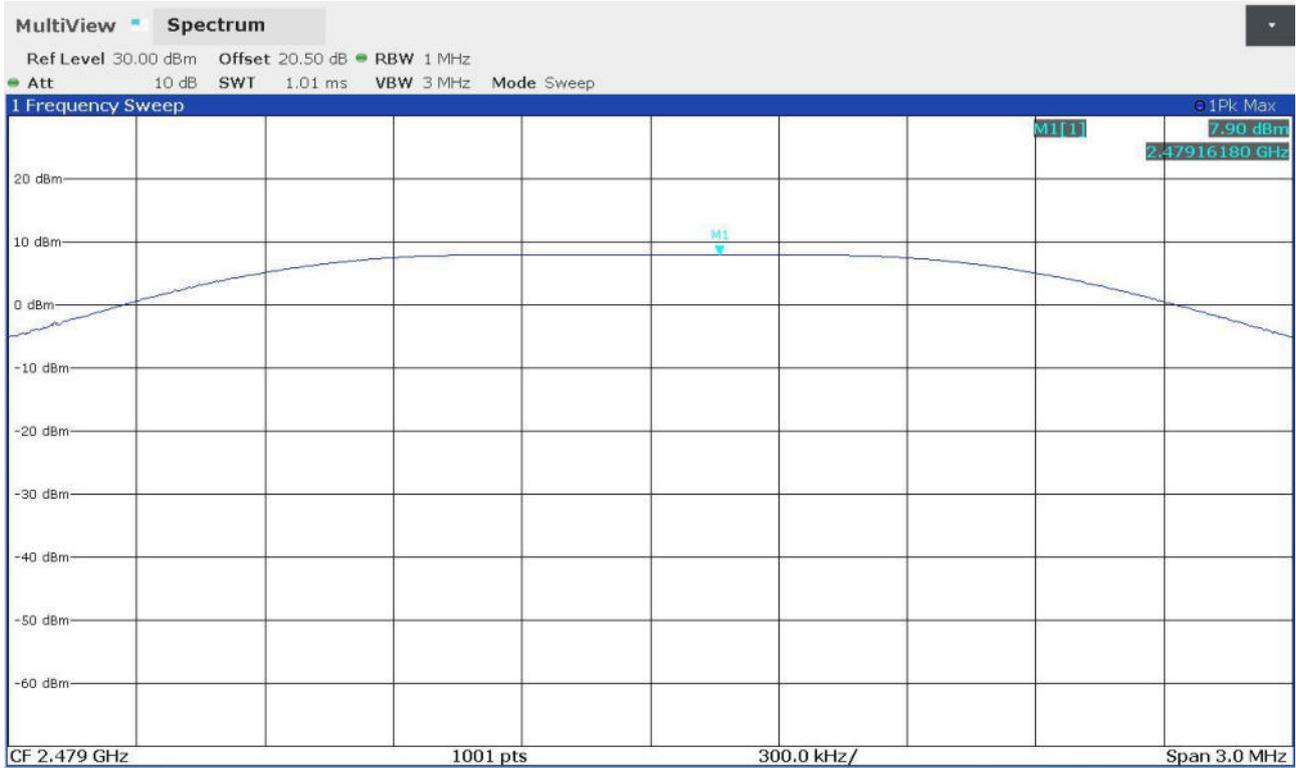
Chip B

Frequency (MHz)	Graphs	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW)
2404	G21023389	8,53	7,13	1000
2440	G21023388	8,33	6,81	1000
2479	G21023387	8,15	6,53	1000

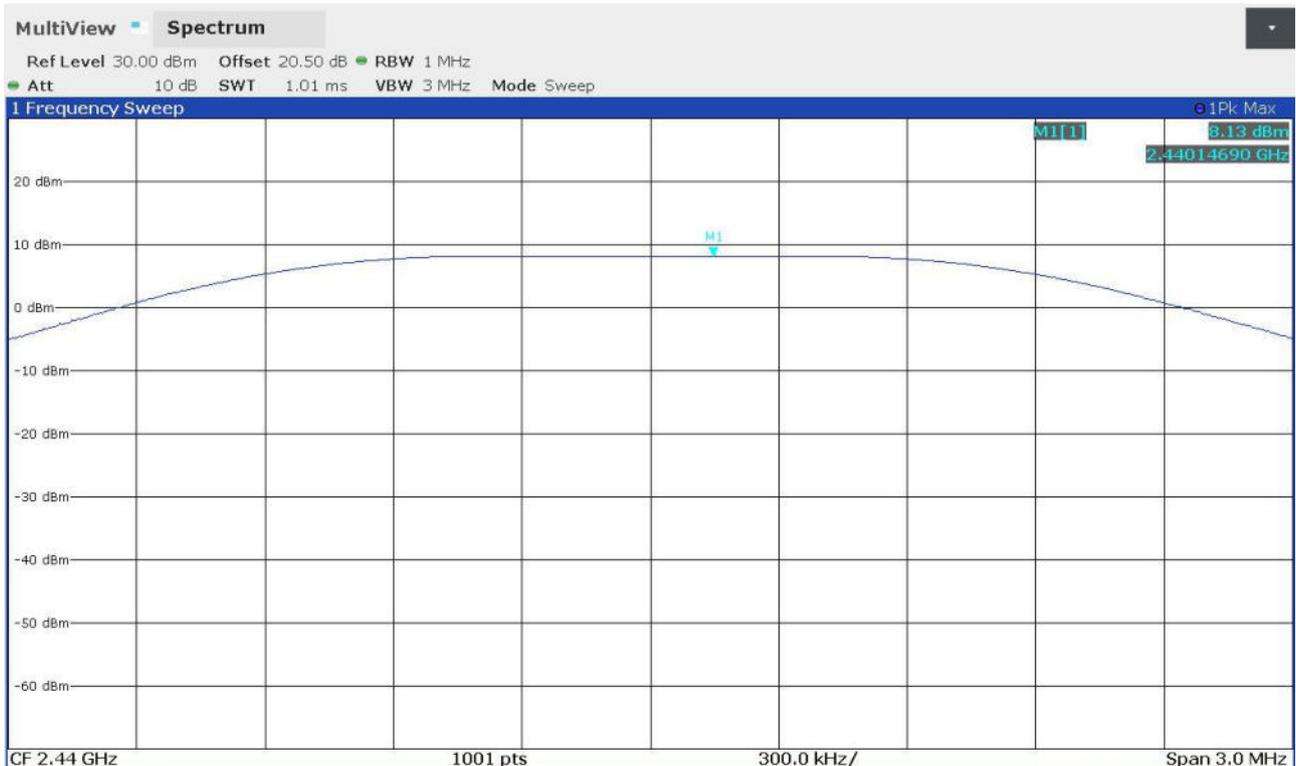


Graphs

Gandini 21023367

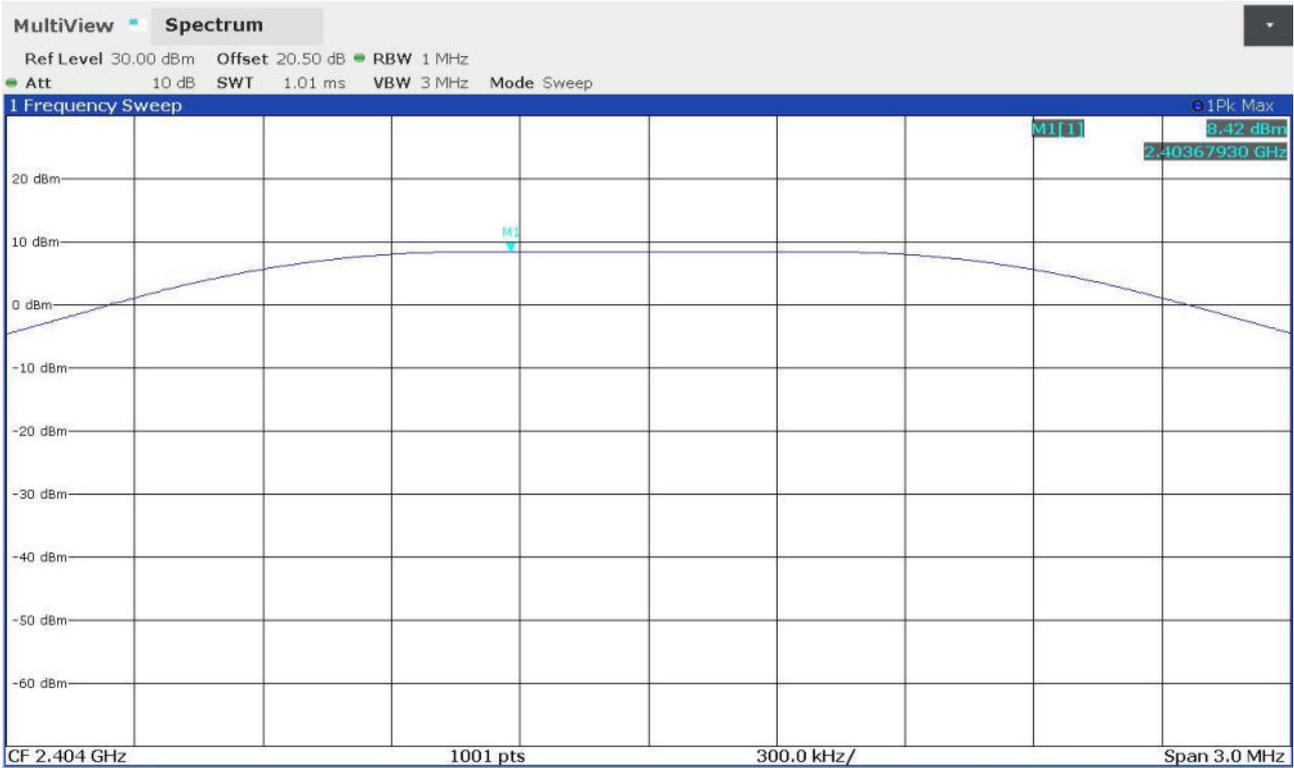


Gandini 21023368

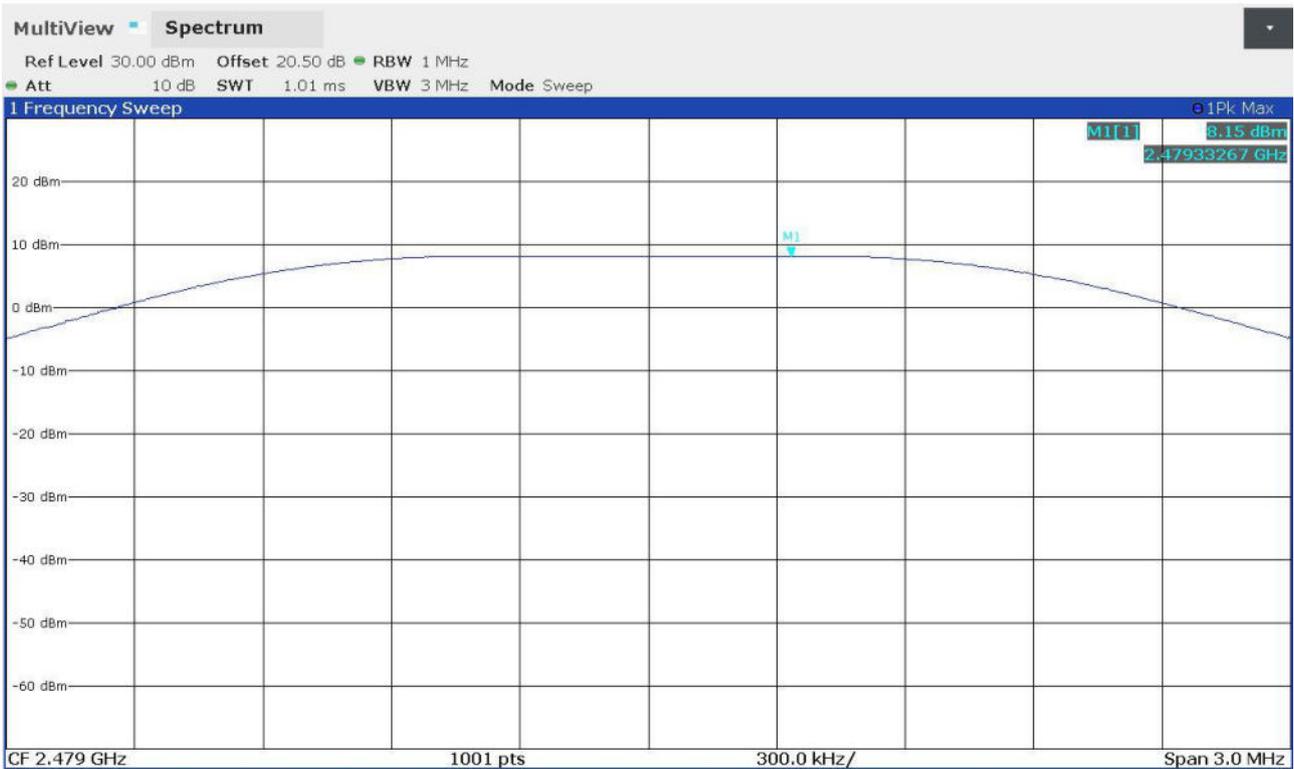




Gandini 21023369



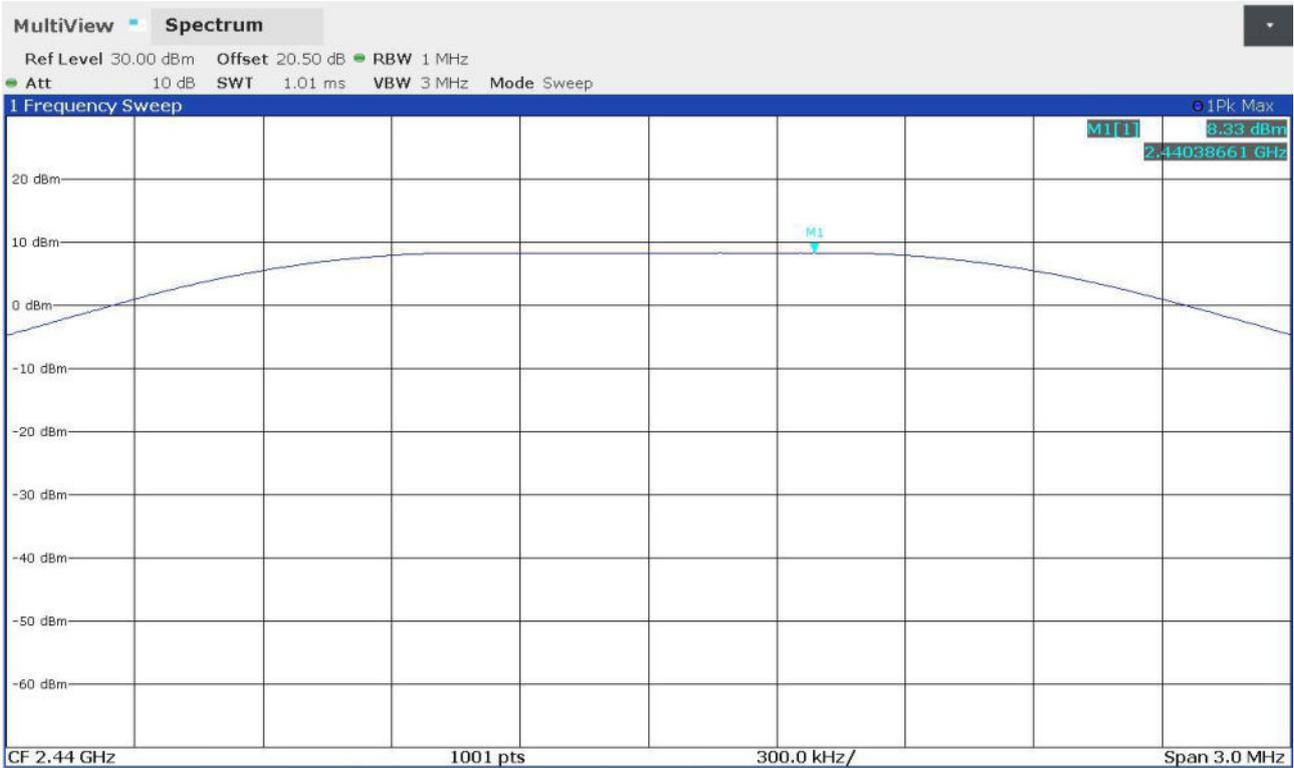
Gandini 21023387



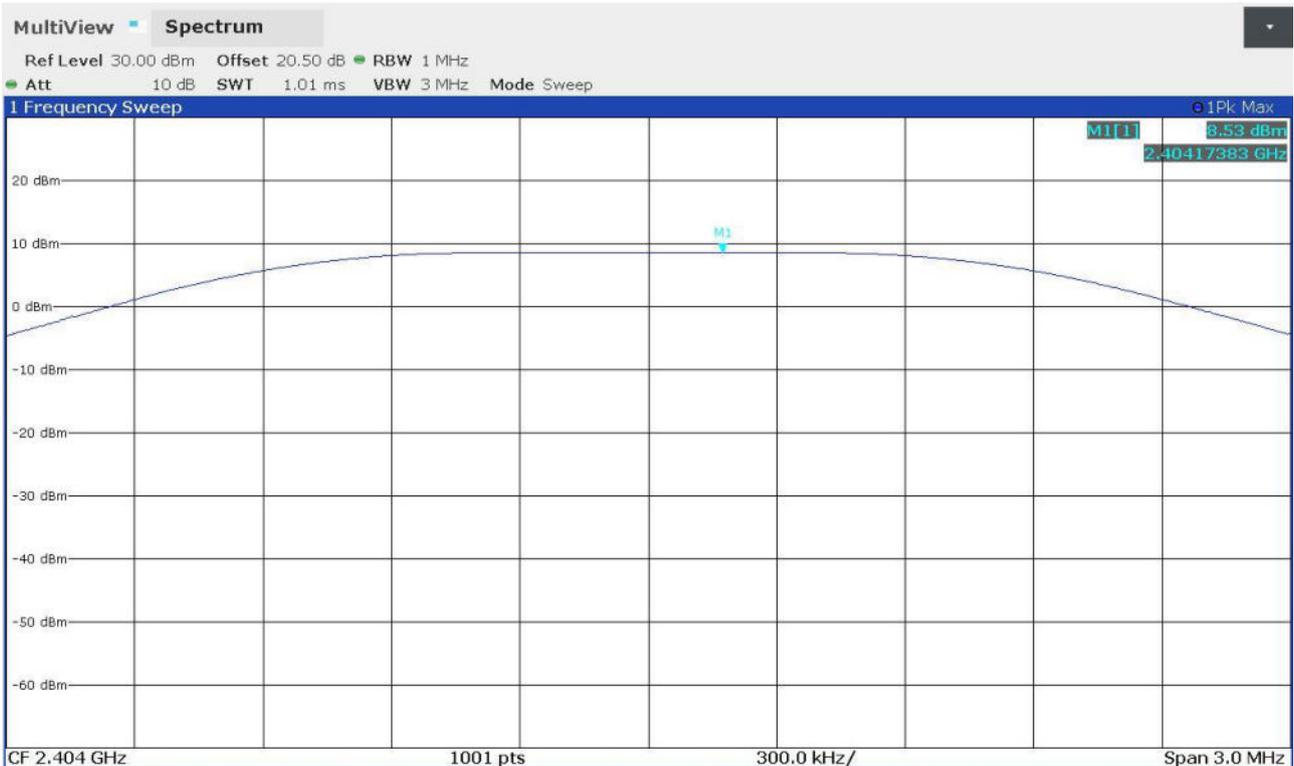
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Gandini 21023388



Gandini 21023389





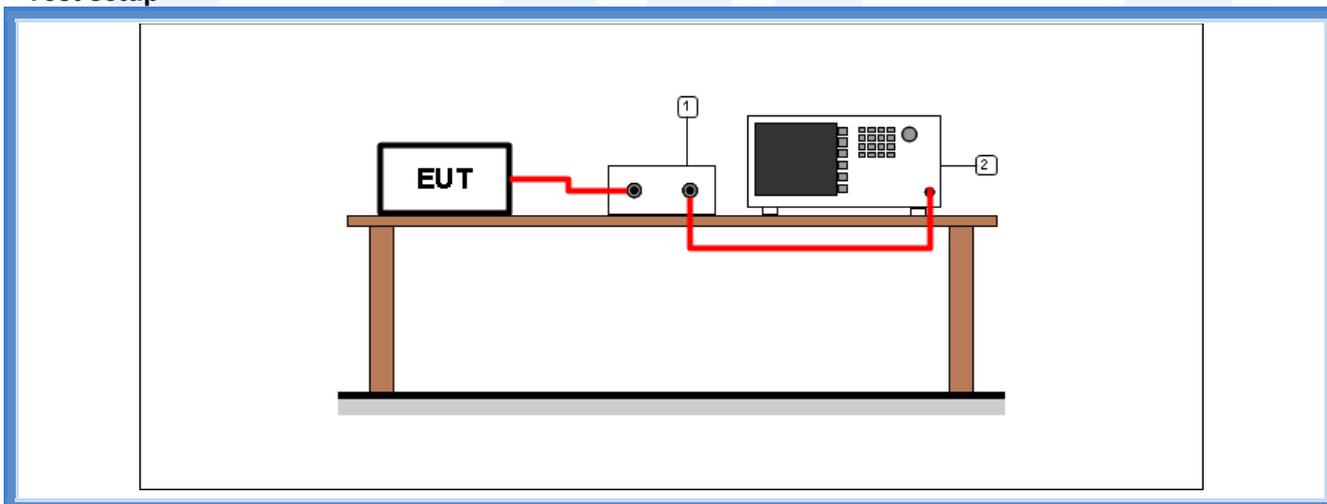
9.7 Maximum power spectral density level in the fundamental emission

Tested by	G. Gandini
Test date	23.03.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (e) ANSI C63.10 cl. 11.10.2 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.4
Supplementary test set-up description	--

Acceptance limits

Frequency Range	Power Spectral Density
2400 – 2483,5 MHz	8 dBm/3 kHz 6,31 mW/3 kHz

Test setup



Test setup PR002_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)



Result

Chip A

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>Measured level (dBm/3 kHz)</i>	<i>Limits (dBm/3 kHz)</i>
2404	G21023371	4,79	8,00
2440	G21023372	4,39	8,00
2479	G21023375	4,36	8,00

Chip B

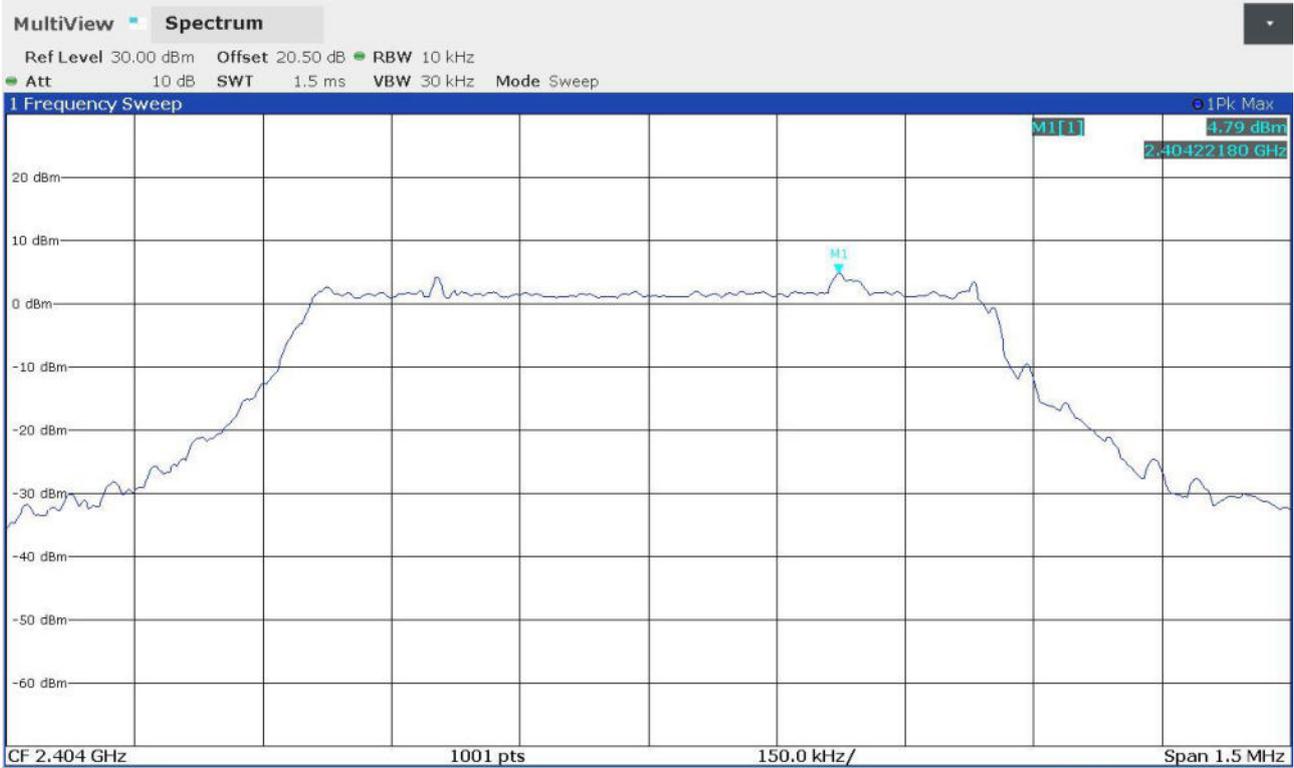
<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>Measured level (dBm/3 kHz)</i>	<i>Limits (dBm/3 kHz)</i>
2404	G21023391	4,91	8,00
2440	G21023392	4,73	8,00
2479	G21023395	4,70	8,00

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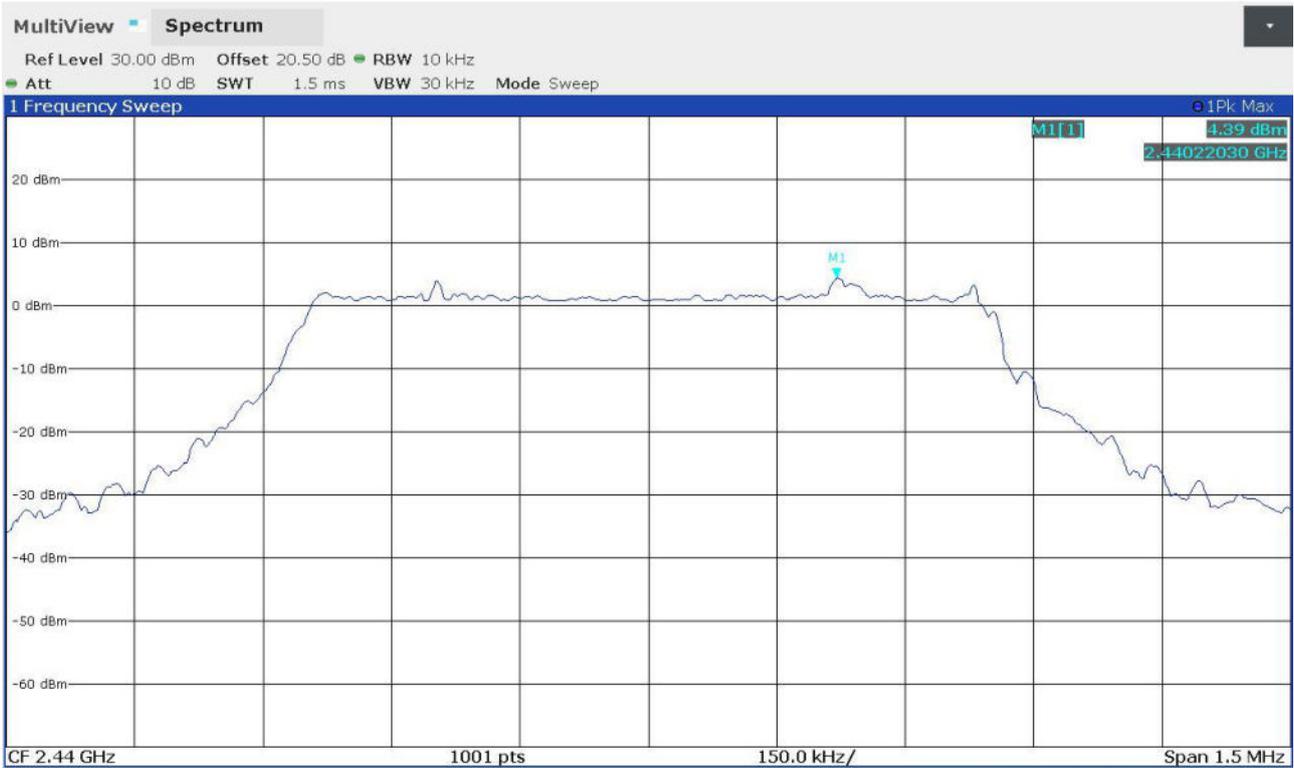


Graphs

Gandini 21023371



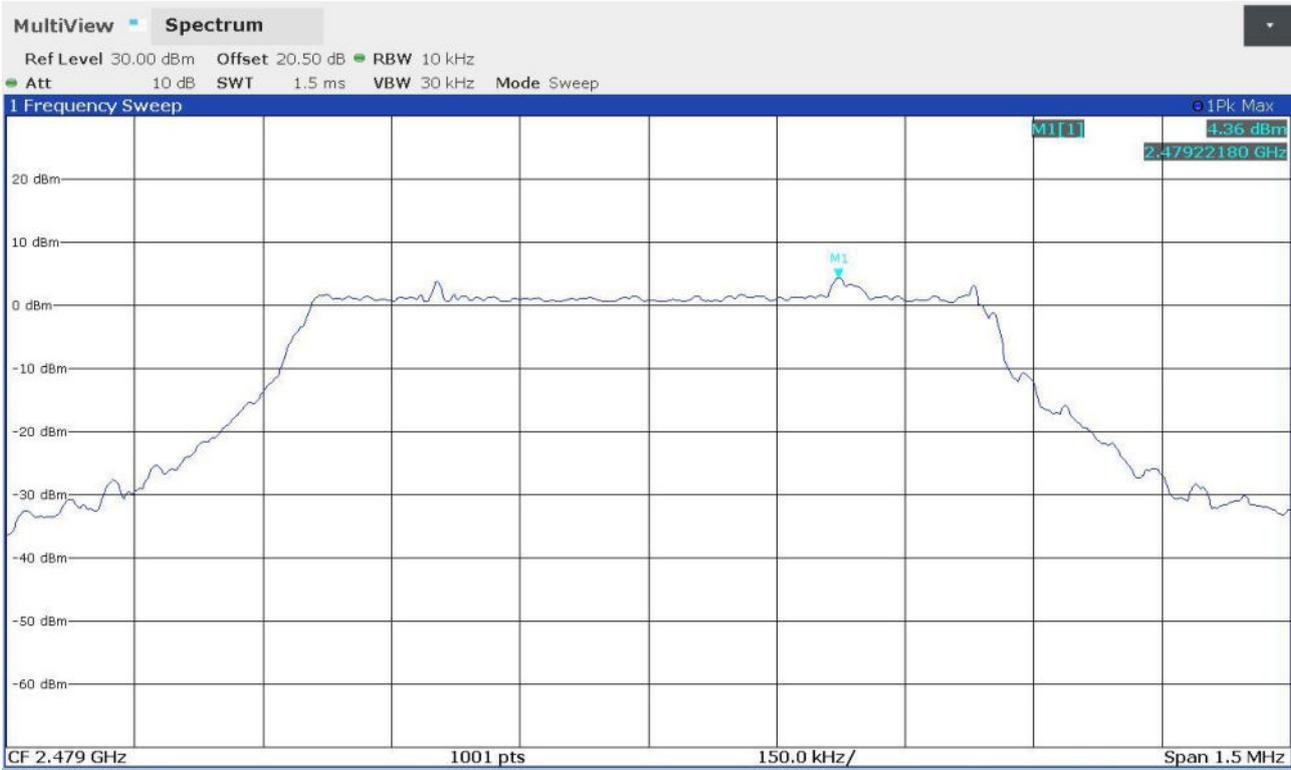
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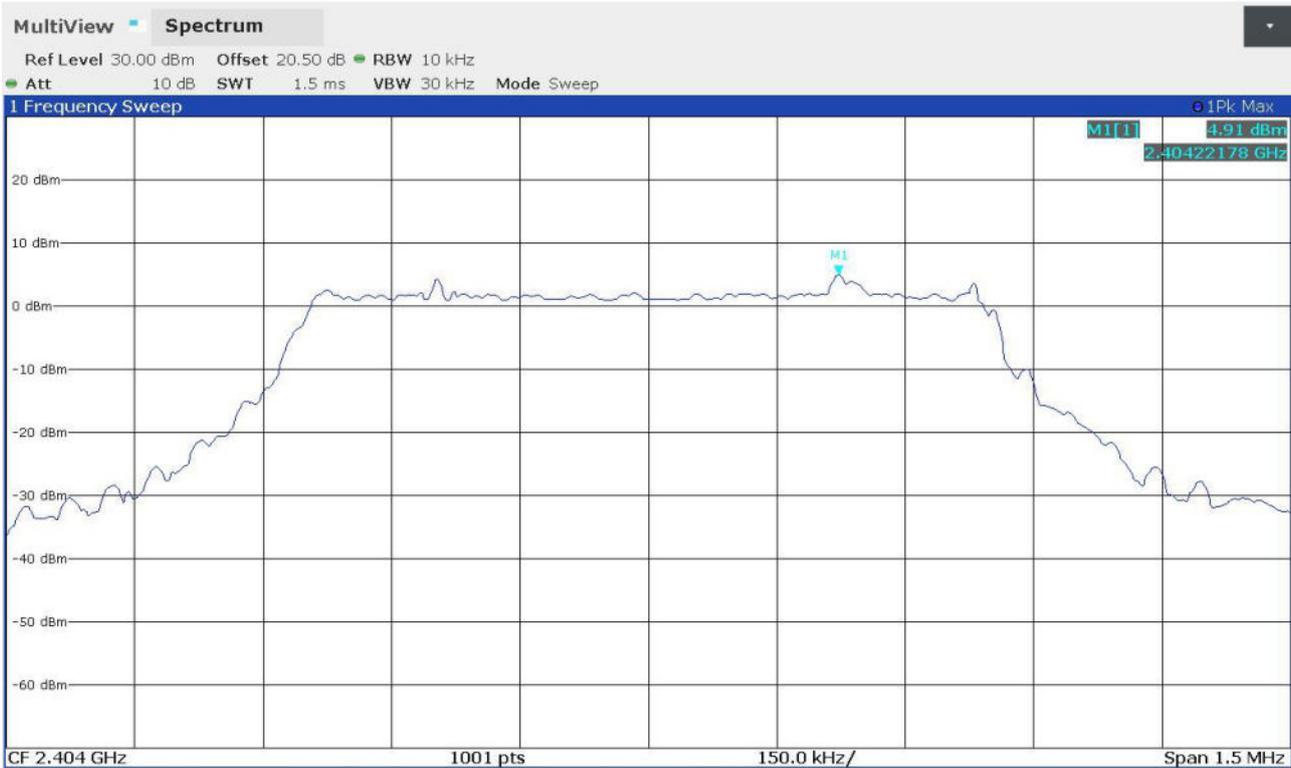
CMC Centro Misure Compatibilità S.r.l.



Gandini 21023375



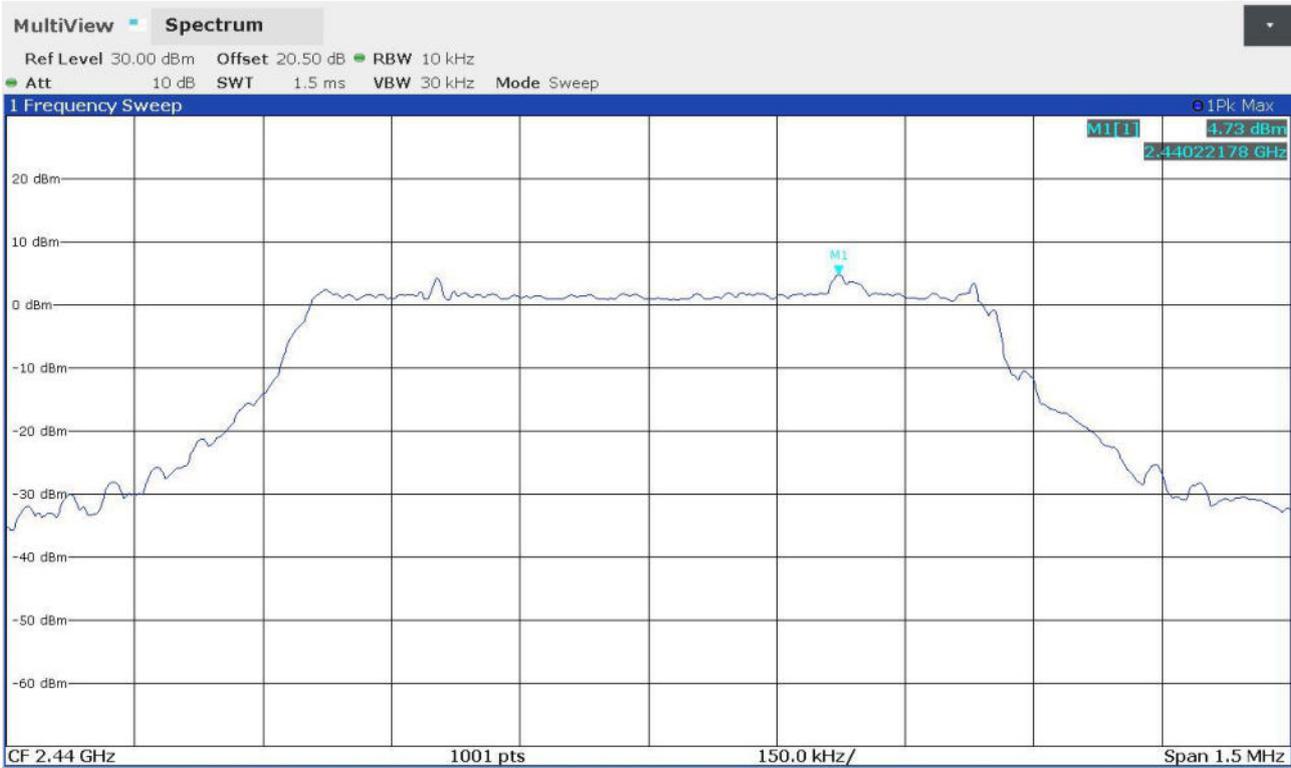
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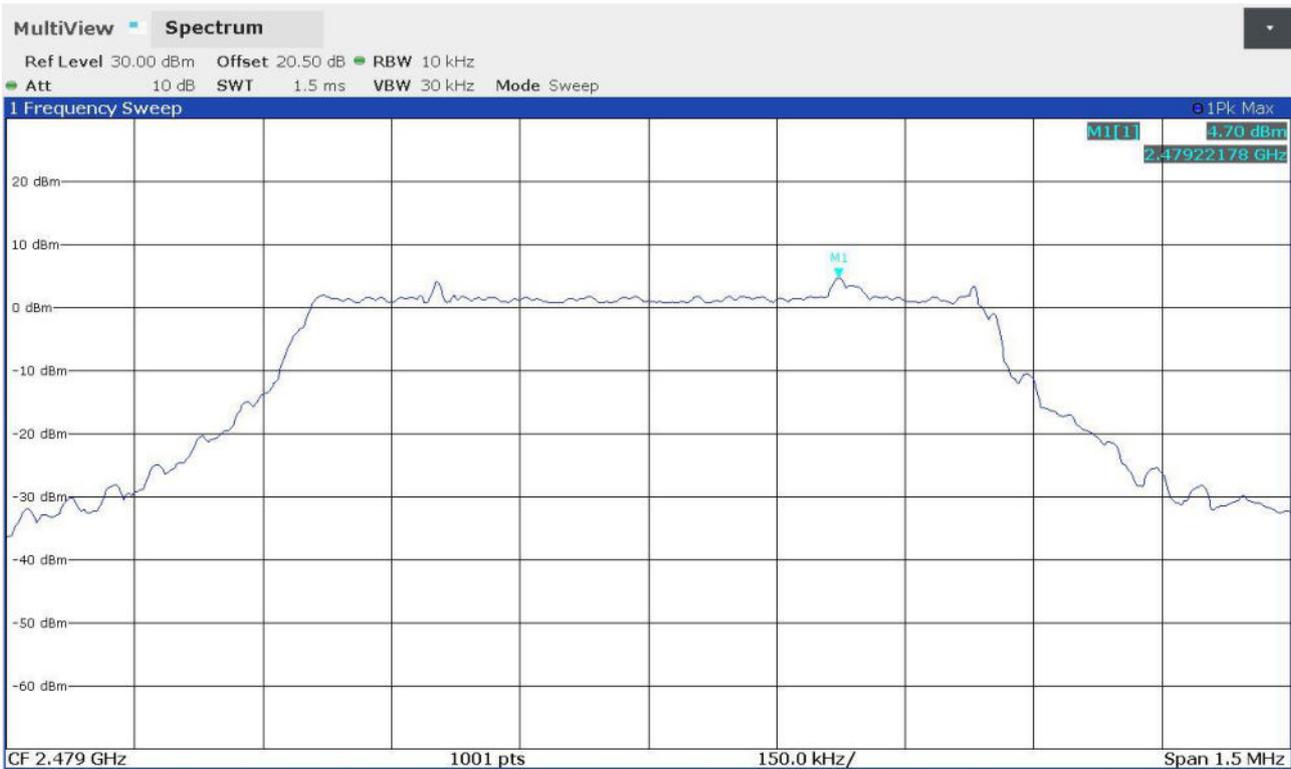
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Gandini 21023392



Gandini 21023395





Attachment 1

Instruments list

<i>Id. number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Last calibration</i>	<i>Due date calibration</i>
CMC S010	Rohde & Schwarz	ESH3-Z2	Impulses Limiting Device	- - -	January '21	January '22
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '19	June '22
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '18	November '23
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '21	January '22
CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz	100781	January '21	January '22
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '20	November '21
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '20	November '21
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '20	November '21
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '20	November '21
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '20	November '21
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '19	June '22
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3Ghz)	9111B-203	June '19	June '22
CMC S288	CMC	W_sma_white	Joint Shielded Cable	W_001	November '20	November '21
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz	104059	November '19	November '22
CMC S353	Rohde & Schwarz	ESW26	Emi Test Receiver 1 Hz - 26.5 GHz	101492	September '20	September '22



Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,3 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,6 dB	1
Conducted emission CISPR 16 ISN 0,15-30 MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_05	2,9 dB	1
Radiated Emission CDNE 30-300 MHz	PE001_06	3,3 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,8 dB	1
Radiated Emission LAS 0,15-30 MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30 MHz	PE004_01	4,2 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_02	4,1 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_03	3,9 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_04	4,1 dB	1
Human Exposure to electromagnetic fields	PE005_01	16,7 %	1
Harmonics	PE006_01	10 mA + 2,9 %	1
Flicker	PE007_01	4,36 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,20 dB 0,87 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,20 dB 0,44 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,23 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,23 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,16 % 0,22 V a 10V	1



Attachment 1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,2 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,7 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04+05	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_06	5,4 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	1,1 dB	1
Adjacent channel power	PR002_01+02	1,1 dB	1
Blocking	PR002_01+02	1,1 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
Ring Wave immunity test	PE110_01		2
Low frequency immunity test	PE111_01		2
Dumped Oscillatory immunity test	PE113_01		2

Rev_21_01 date 23/02/2021

Note 1:

The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p = 95%

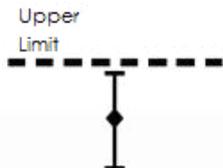
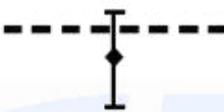
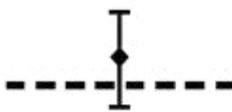
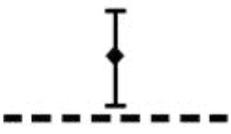
Note 2:

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



Attachment 1

Judgement of compliance

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

In agreement with ILAC-G8:09/2019 cl.4.2.1 Guidelines on Decision Rules and Statements of Conformity

Quality manual references – Internal procedure

Internal Procedure PM001 rev. 3.1 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 9.5 (Quality Manual)	Measurement uncertainty calculation