TEST REPORT
Nr. R23187901

Federal Communication Commission (FCC)

Report Reference No. .....:	R23187901
Date of issue: .....:	08.02.2024
Total number pages: .....:	63
Customer name .....:	Imet S.r.l.
Address .....:	Via Ronche, 93 – 33077 Sacile (PN) – Italy
Test specification:	
Standards .....:	FCC Rules & Regulations, Title 47:2021 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247
Non-standard test method .....:	N/A
Test Report Form No. .....:	15-247_Hopping_DEKRA
Test Report Form(s) Originator ...:	DEKRA Testing and Certification S.r.l.
Master TRF .....:	2023-11

General disclaimer:

The test results presented in this report relate only to the object tested.
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(*) Test item description .....:	RF Transceiver module 915-928MHz
(*) Trademark .....:	Imet
(*) Manufacturer .....:	Imet S.r.l.
(*) Model / Type reference .....:	B921C
(*) FCC ID .....:	2AYRTB921C
(*) Rating(s) .....:	3,7 Vdc from battery

Report

Tested by (name + signature) .....: G. Gandini .....

Approved by (name + signature) .....: F. Marenda .....

(*) information provided by the customer

1 Summary

2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2021	--
3 List of attachments	
Attachment 1: Measurement uncertainty, judgement of compliance and quality manual references	
4 Deviation(s) from test specification	
None	
5 Testing location	
DEKRA Testing and Certification S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

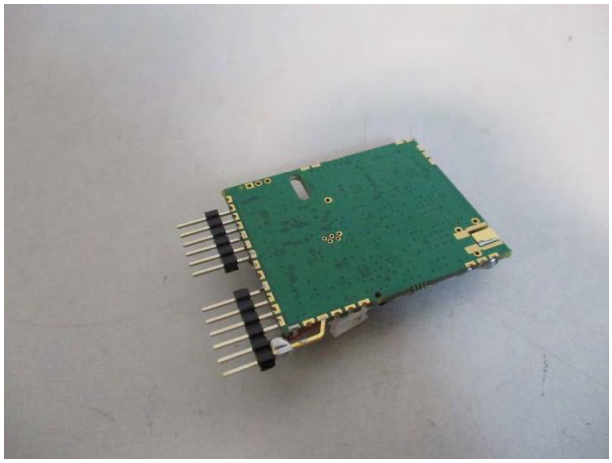
Revision index	*Date*	*Change history*
1.0	08.02.2024	--

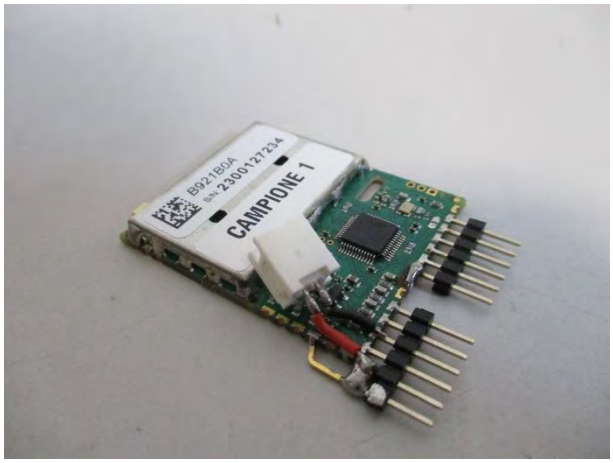
Testing and sampling:	
Date of receipt of test item ..... :	16.10.2023
Testing start date ..... :	18.01.2024
Testing end date ..... :	05.02.2024
Sampling procedure ..... :	Sample used for testing chosen by the customer; DEKRA Testing and Certification S.r.l. cannot be considered responsible for the selection of the sample
Internal identification ..... :	Adhesive label with the product number P230926
General remarks:	
This report shall not be reproduced, except in full, without the written approval of DEKRA Testing and Certification S.r.l. 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. Tests reported in this test report marked by wording: “Test not accredited by ACCREDIA” are not part of the ACCREDIA accreditation of this laboratory.	
Possible test case verdicts:	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object meets the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object was not evaluated for the requirement:	N/E (Not Executed)
Definition of symbols used in this test report:	
☒ Indicates that the listed condition, standard or equipment is applicable for this report. ☐ Indicates that the listed condition, standard or equipment is not applicable for this report.	

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

Description ..... :	RF Transceiver module 915-928MHz						
Model Number ..... :	B921C						
FCC ID ..... :	2AYRTB921C						
Serial Number ..... :	--						
Brand name ..... :	Imet						
Frequency band ..... :	902 – 928 MHz						
Nominal frequencies ..... :	F_L: 915,200 MHz	F_M: 921,400 MHz	F_H: 927,800 MHz				
Test power supply ..... :		Voltage and Frequency	Reference poles				
			N	L1	L2	L3	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 3,7 V from battery					☐
Software version ..... :	PCB921_R00_IC326_915MHz_1v3.hex						
Pseudo randomly ordered list of hopping frequencies ..... :	See document B921C DEVICE DESCRIPTION REV.0_EN						
Type of equipment ..... :	☑ Transmitter unit ☑ Receiver unit						
Type of station ..... :	☑ Portable station ❑ Mobile station						
Test arrangements of EUT ..... :	*Intended operational arrangement(s) of EUT*	*Test arrangement (see basic standard)*					
	❑ Table-top only	Table-top					
	❑ Floor-standing only	Floor-standing					
	❑ Can be floor-standing or table-top	Table-top					
	❑ Rack mounted	In rack or table-top					
	☑ Other, for example wall mounted, ceiling mounted, handheld, body worn	Table-top					
Operating modes ..... :	No.	Operating mode of test item					
	1	EUT in continuous transmission at maximum power					
Declination of responsibility ..... :	Information relating to the description of the sample, components list, and software/hardware version (if reported) are provided by the customer. DEKRA Testing and Certification S.r.l. cannot be considered responsible for this information, for any other document sent by the customer and for any difference between the software version present in the tested sample and that present in the object intended for final sale. In some cases, the software in the tested sample is in a version dedicated exclusively to the test, and therefore does not represent the software installed in the final version of the product.						

6.1 Photos of the test item





7 Verdict summary section

FCC Rules & Regulations, Title 47:2021 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	**Requirement – Test case**	**Basic standard**	**Verdict**
Part 15.247 (a) (1)	Pseudo randomly ordered list of hopping frequencies	--	**P**
Part 15.203	Antenna requirements	ANSI C63.10	**P**
Part 15.207	Conducted emissions	ANSI C63.10	**P**
Part 15.209	Radiated emissions and spurious emissions	ANSI C63.10	**P**
Part 15.247	20 dB Bandwidth	ANSI C63.10	**P**
Part 15.247	Channel Separation	ANSI C63.10	**P**
Part 15.247	Number of Hopping Channel	ANSI C63.10	**P**
Part 15.247	Time of occupancy	ANSI C63.10	**P**
Part 15.247	Band edge	ANSI C63.10	**P**
Part 15.209 and 15.247	Peak Output Power	ANSI C63.10	**P**

Normative references	
Reference no.	***Description***
FCC Rules and Regulation Title 47 part 15:2021	--
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

<table>
<tr><td>Environmental reference conditions..... :</td><td>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:
<table>
<tr><th>Temperature</th><th>Humidity</th><th>Atmospheric pressure</th></tr>
<tr><td>15 °C – 35 °C</td><td>30 % - 60 %</td><td>800 hPa – 1060 hPa</td></tr>
<tr><td colspan="3">If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.</td></tr>
</table></td></tr>
<tr><td>Measurement uncertainties ..... :</td><td>Attachment 1</td></tr>
</table>

9 Test results

9.1 Antenna requirements

Tested by .....:	G. Gandini	
Test date .....:	18.01.2024	
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
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, 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	
Antenna type .....:	☐	Integral antenna
	☒	External antenna
Antenna gain .....:	1,631 dBi	
External R.F. power amplifier.....:	Not Present	

9.2 Conducted emission

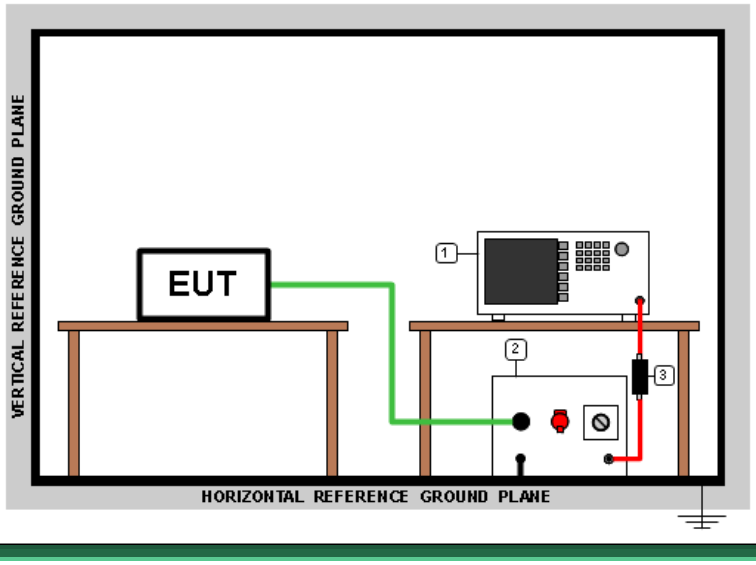
Tested by .....:	G. Gandini	
Test date .....:	05.02.2024	
Test location (stand).....:	Shielded chamber (CMC A001)	
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.207 ANSI C63.10 cl. 6.2	
Test set-up description.....:	☒	Table top equipment set-up (80 cm above the reference ground plane)
	☐	Floor standing equipment set-up (insulating material up to 12 mm thick)
	☐	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.....:	☒	Artificial mains network, 50 µH/50 Ω LISN
	☐	Other:

Acceptance limits

Frequency range (MHz)	*dB(µV) Quasi-peak*	*dB(µV) Average*
0,15 to 0,50	66 to 56	56 to 46
0,5 to 5	56	46
5 to 30	60	50

Test setup

Mains terminal disturbance for table-top equipment



Test setup PE001_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
3	CMC S010	Rohde & Schwarz	ESH3-Z2	--	Pulse limiter	January 2023	January 2024
2	CMC S200	Schwarzbeck	NSLK 8128	8128-273	V-LISN	January 2023	January 2024
1	CMC S206	Rohde & Schwarz	ESCI 7	100781	EMC Receiver 9KHz-7GHz	December 2023	December 2024

Result

Line	*Frequency Range (MHz)*	*Graphs*	*Remarks*	*Result*
L1	0,15 – 30	G23187940	--	P
N	0,15 – 30	G23187941	--	P

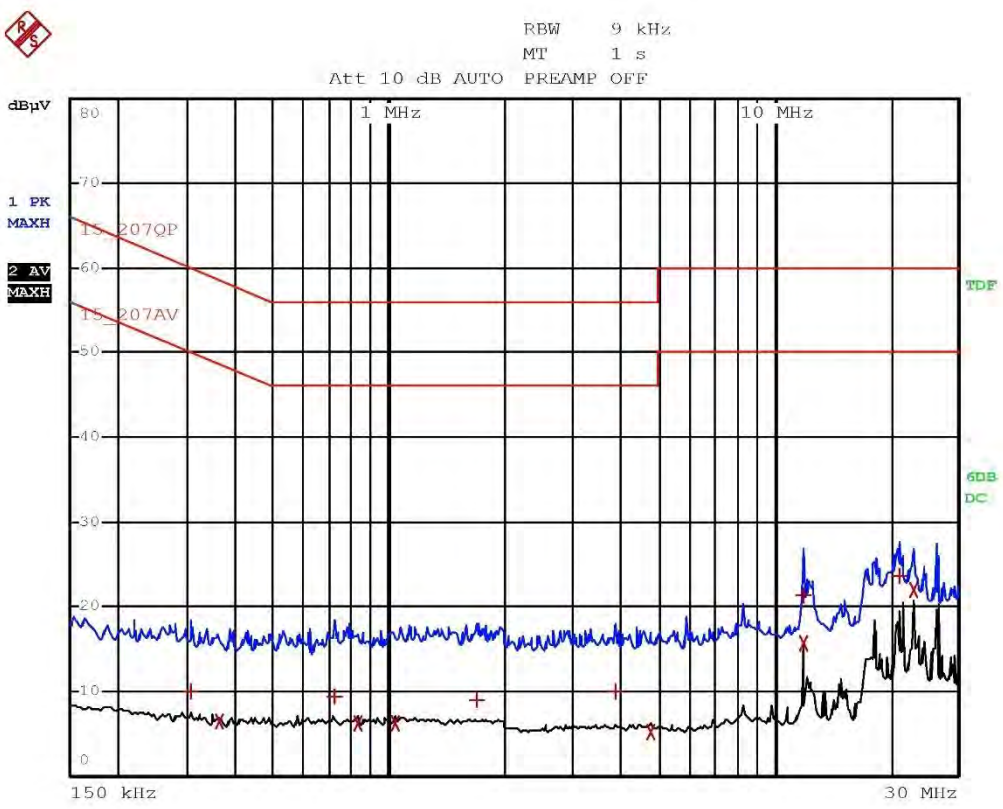
Remarks: tests performed with EUT supplied from 120 V ~ 60 Hz power unit

Line	*Frequency Range (MHz)*	*Graphs*	*Remarks*	*Result*
+3,7 Vdc	0,15 – 30	G23187942	--	P
-3,7 Vdc	0,15 – 30	G23187943	--	P

Remarks: tests performed with EUT supplied from 3,7 Vdc

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



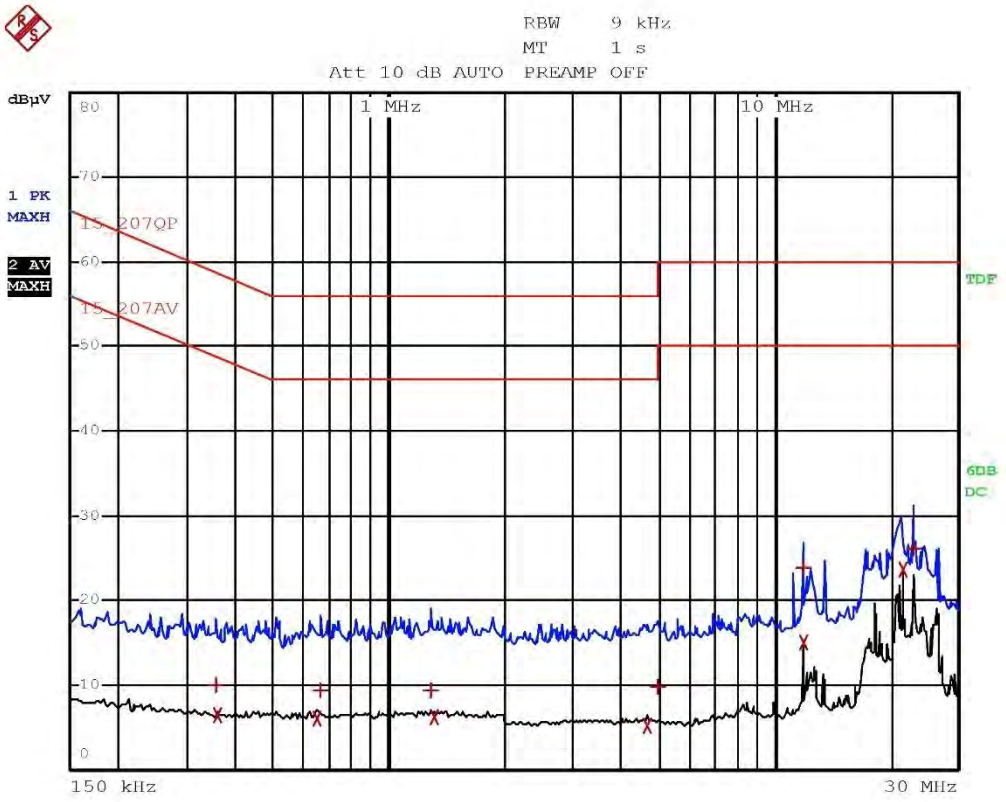
Gandini 23187940

EDIT PEAK LIST (Final Measurement Results)

Trace1:	15_207QP
Trace2:	15_207AV
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	306 kHz	9.86	-50.20
2 Average	362 kHz	6.38	-42.30
1 Quasi Peak	722 kHz	9.24	-46.75
2 Average	830 kHz	6.17	-39.82
2 Average	1.034 MHz	6.18	-39.81
1 Quasi Peak	1.694 MHz	9.00	-46.99
1 Quasi Peak	3.894 MHz	9.91	-46.08
2 Average	4.806 MHz	5.04	-40.95
1 Quasi Peak	11.93 MHz	21.26	-38.73
2 Average	11.934 MHz	15.62	-34.37
1 Quasi Peak	21.174 MHz	23.69	-36.31
2 Average	23.13 MHz	21.88	-28.11

Gandini 23187940



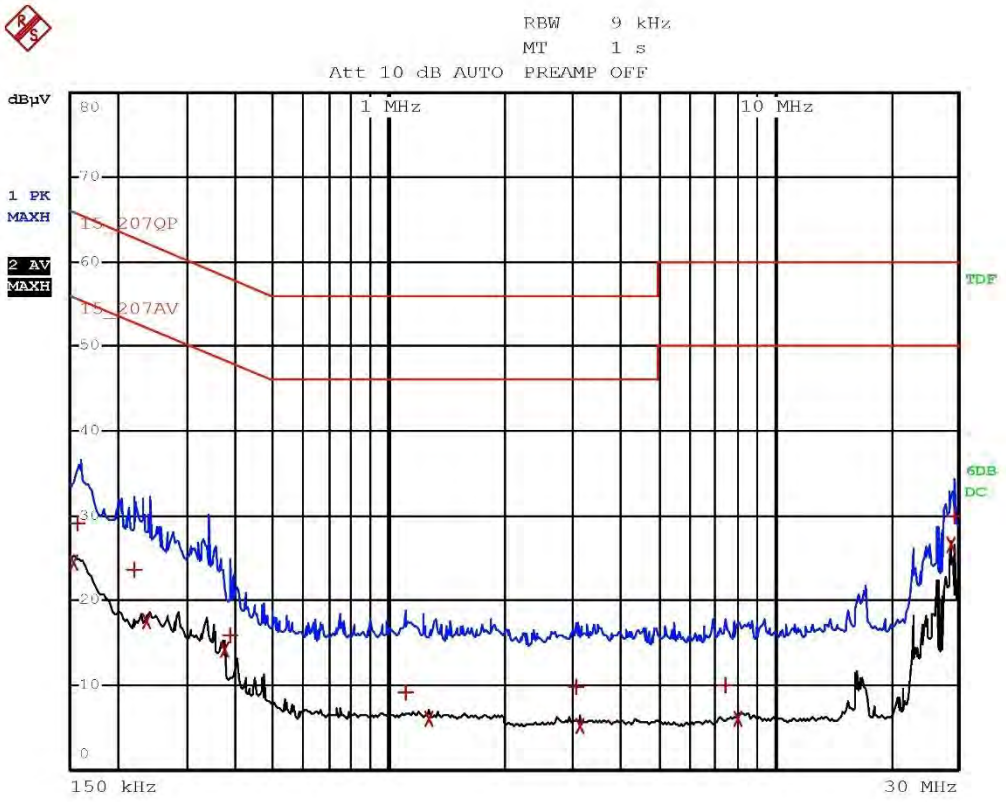
Gandini 23187941

EDIT PEAK LIST (Final Measurement Results)

Trace1:	15_207QP
Trace2:	15_207AV
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	354 kHz	9.86	-48.99
2 Average	358 kHz	6.36	-42.41
2 Average	650 kHz	6.03	-39.96
1 Quasi Peak	662 kHz	9.32	-46.67
1 Quasi Peak	1.282 MHz	9.24	-46.75
2 Average	1.306 MHz	6.17	-39.82
2 Average	4.694 MHz	5.10	-40.89
1 Quasi Peak	4.99 MHz	9.72	-46.28
1 Quasi Peak	11.938 MHz	23.74	-36.25
2 Average	11.938 MHz	15.03	-34.96
2 Average	21.662 MHz	23.71	-26.28
1 Quasi Peak	23.13 MHz	26.09	-33.90

Gandini 23187941



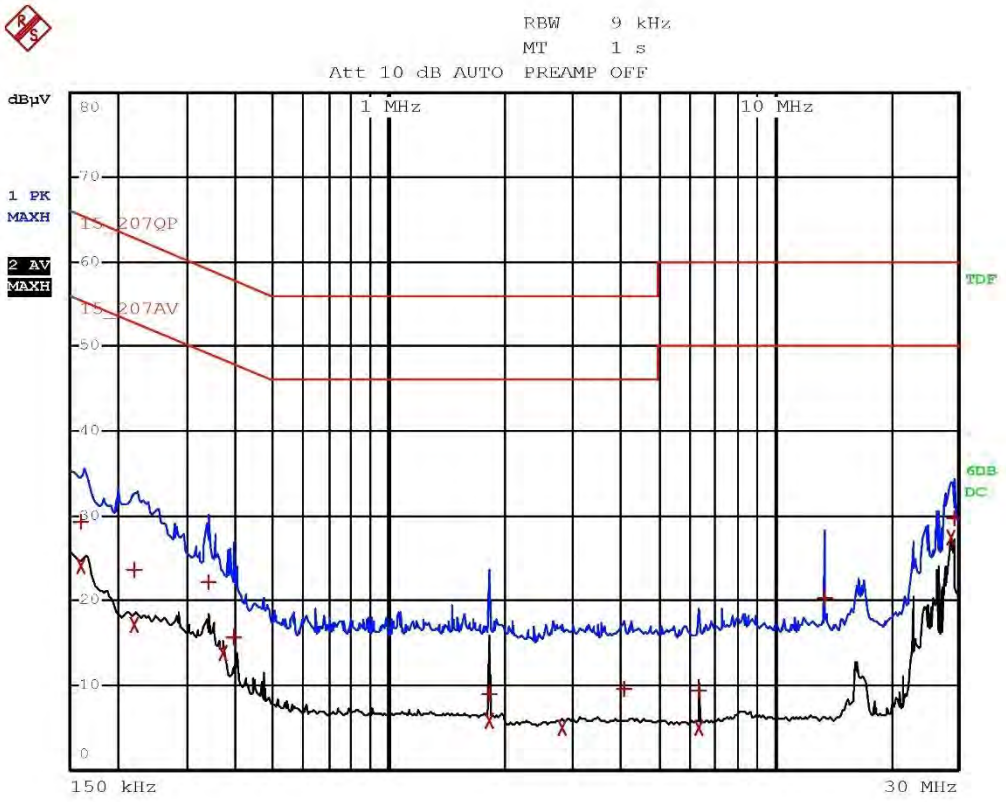
Gandini 23187942

EDIT PEAK LIST (Final Measurement Results)

Trace1:	15_207QP
Trace2:	15_207AV
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	154 kHz	24.53	-31.24
1 Quasi Peak	158 kHz	28.98	-36.58
1 Quasi Peak	218 kHz	23.57	-39.32
2 Average	238 kHz	17.44	-34.72
2 Average	374 kHz	14.13	-34.27
1 Quasi Peak	386 kHz	15.77	-42.37
1 Quasi Peak	1.102 MHz	9.08	-46.91
2 Average	1.278 MHz	6.07	-39.92
1 Quasi Peak	3.086 MHz	9.81	-46.18
2 Average	3.15 MHz	5.07	-40.92
1 Quasi Peak	7.494 MHz	10.05	-49.94
2 Average	8.058 MHz	5.97	-44.02
2 Average	28.686 MHz	26.57	-23.42
1 Quasi Peak	29.238 MHz	30.00	-29.99

Gandini 23187942



Gandini 23187943

EDIT PEAK LIST (Final Measurement Results)

Trace1:	15_207QP
Trace2:	15_207AV
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	162 kHz	24.11	-31.24
1 Quasi Peak	162 kHz	29.36	-35.99
1 Quasi Peak	222 kHz	23.54	-39.20
2 Average	222 kHz	17.09	-35.64
1 Quasi Peak	338 kHz	22.18	-37.06
2 Average	370 kHz	13.78	-34.72
1 Quasi Peak	394 kHz	15.70	-42.27
1 Quasi Peak	1.822 MHz	8.92	-47.07
2 Average	1.822 MHz	5.72	-40.27
2 Average	2.814 MHz	4.93	-41.06
1 Quasi Peak	4.106 MHz	9.62	-46.37
1 Quasi Peak	6.386 MHz	9.40	-50.59
2 Average	6.386 MHz	4.88	-45.11
1 Quasi Peak	13.554 MHz	20.23	-39.76
2 Average	28.686 MHz	27.37	-22.62
1 Quasi Peak	29.238 MHz	29.78	-30.21

Gandini 23187943

9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by .....:	G. Gandini	
Test date .....:	19.01.2024	
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.....:	☒	Table top equipment set-up (80 cm above the reference ground plane)
	☐	Floor standing equipment set-up (insulating material up to 12 mm thick)
	☐	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 .....:	OATS or SAC with measurement distance [m]: 10 m for frequencies below 1 GHz 3 m for frequencies above 1 GHz	
Supplementary information .....:	--	

Acceptance limits

Acceptance limits for emissions in restricted frequency bands (f < 1000 MHz)		
Frequency range (MHz)	*Test distance (m)*	*Limits [dB(µV/m)]*
0,009 to 0,490	300	20log(2400/F(kHz))
0,490 to 1,705	30	20log(24000/F(kHz))
1,705 to 30	30	20log(30)
30 to 88	3	20log(100)**
88 to 216	3	20log(150)**
216 to 960	3	20log(200)**
Above 960	3	20log(500)

**: except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54 – 72 MHz, 76 – 88 MHz, 174 – 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.
Perimeter protection systems may operate in the 54 – 72 MHz and 76 – 88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.
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 ≥ 1000 MHz)			
Frequency (MHz)	*Test distance (m)*	*AV limits [dB(µV/m)]*	*Peak limits [dB(µV/m)]*
> 1000	3	54	74

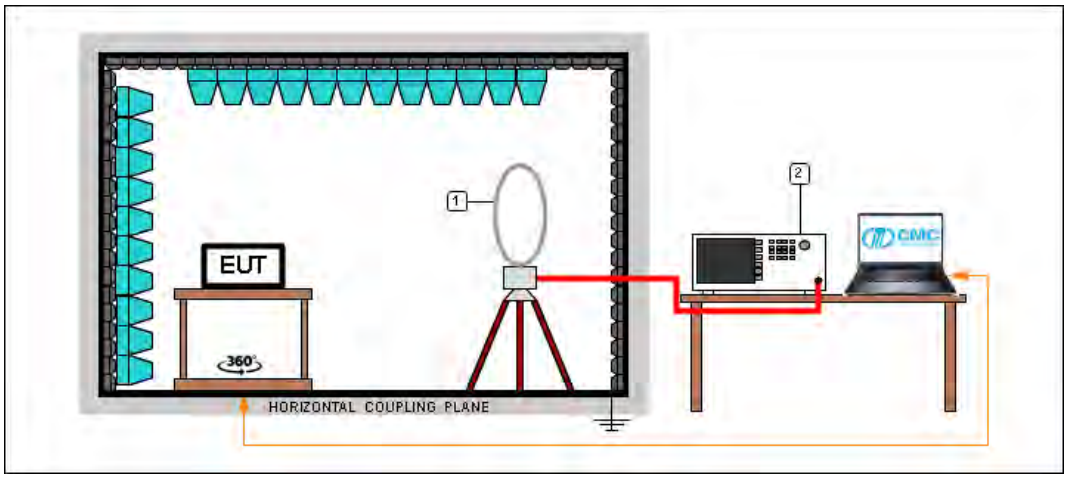
The restricted frequency bands are listed in the following table

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
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.

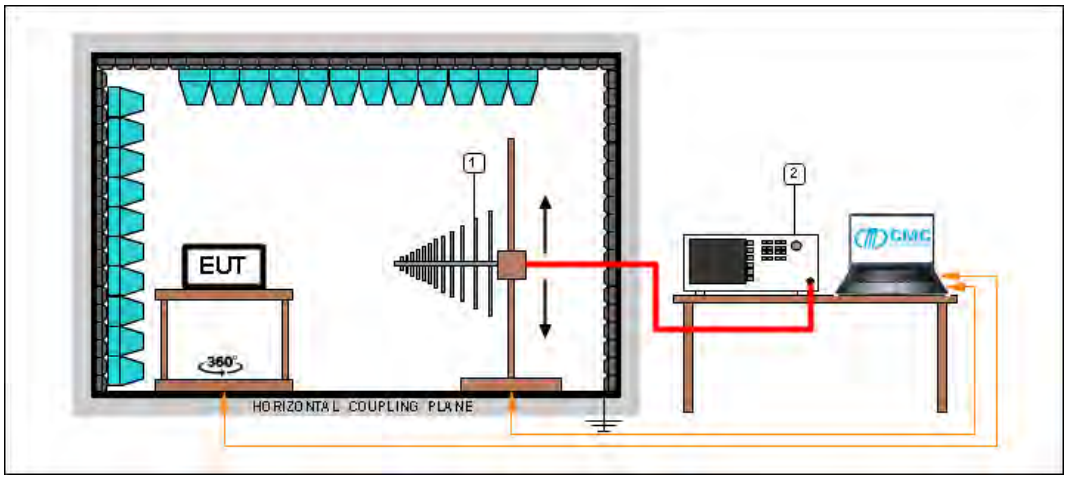
Test setup

Frequency ≤ 30 MHz



Test setup PE004_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
1	CMC S127	Schaffner	HLA6120	1191	Loop Antenna 9kHz - 30MHz	May 2023	May 2024

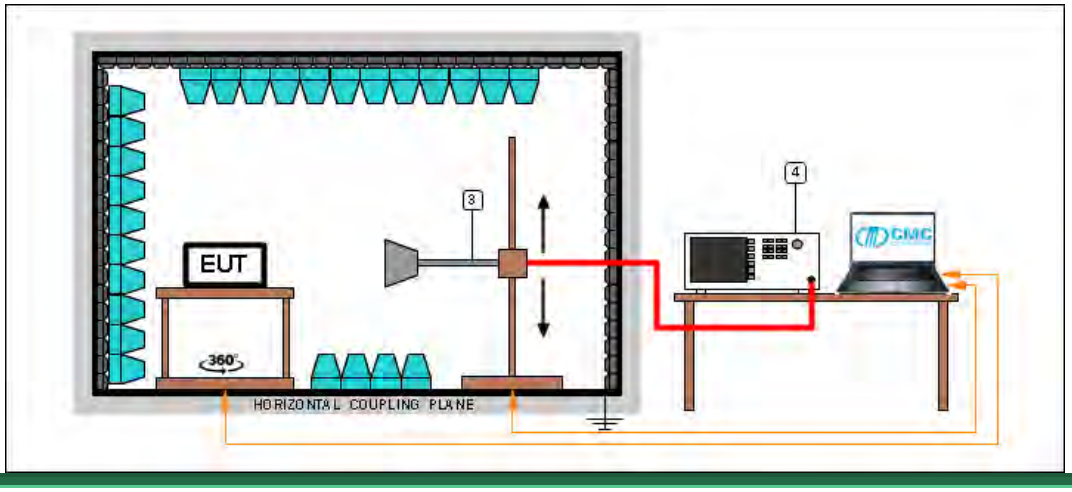
Frequency ≤ 1 GHz



Test setup PE004_02							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	831	Broadband Antenna	August 2022	August 2025

Test setup PE004_03							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna	August 2022	August 2025

Frequency > 1 GHz



Test setup PE004_04							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
4	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
3	CMC S108	Emco	3115	9811-5622	Waveguide antenna	August 2022	August 2025

Test setup PE004_05							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
4	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
3	CMC S290	Schwarzbeck	BBHA 9170	733	Horn Antenna	October 2021	October 2026

Result

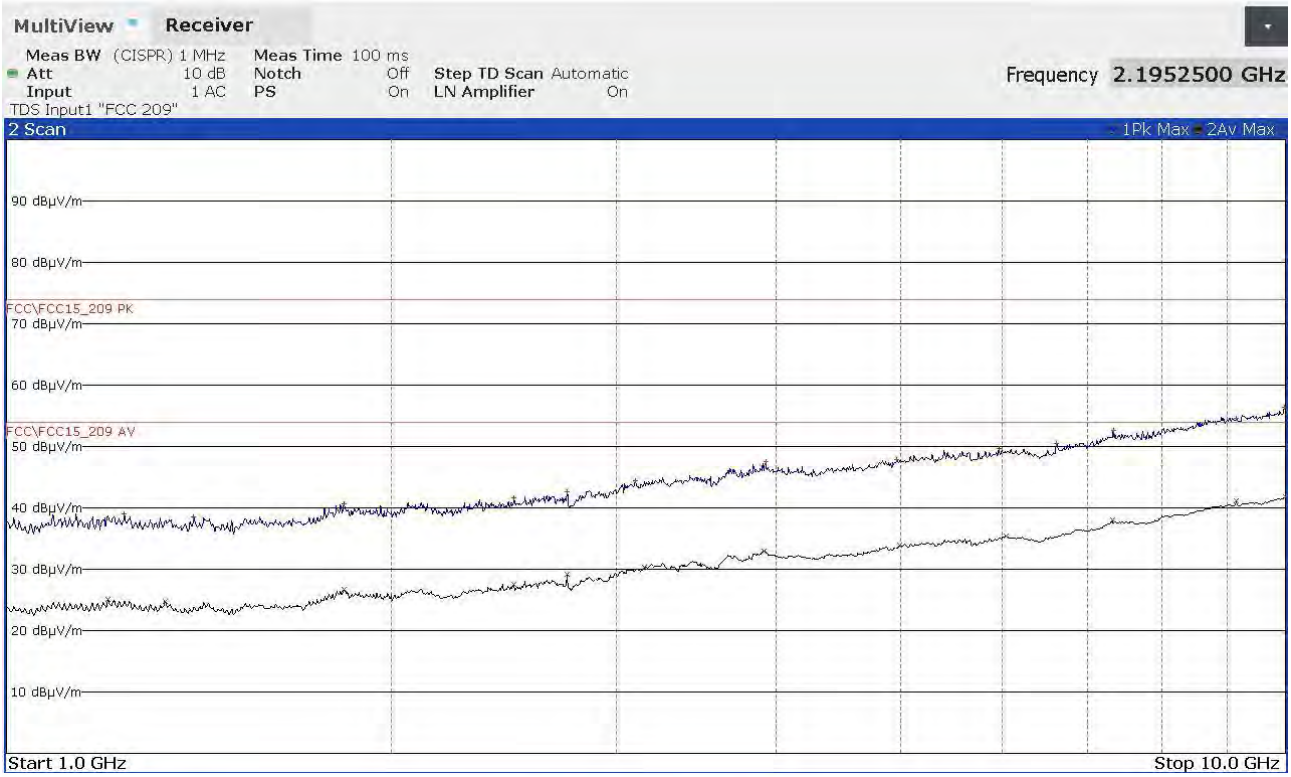
Transmission frequency (MHz)	*Polarization*	*Frequency Range (MHz)*	*Graphs*	*Result*
915,20	V	1000 – 10000	G23187901	P
915,20	H	1000 – 10000	G23187902	P
921,40	H	1000 – 10000	G23187903	P
921,40	V	1000 – 10000	G23187904	P
927,80	V	1000 – 10000	G23187905	P
927,80	H	1000 – 10000	G23187906	P
Worst case	Loop	0,009 – 30	G23187907	P
927,80	H	300 – 1000	G23187908	P
927,80	V	300 – 1000	G23187909	P
921,40	V	300 – 1000	G23187910	P
921,40	H	300 – 1000	G23187911	P
915,20	H	300 – 1000	G23187912	P
915,20	V	300 – 1000	G23187913	P
Worst case	V	30 – 300	G23187914	P
Worst case	H	30 – 300	G23187915	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 40log(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 20log(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 23187901



FINAL RESULT TABLE

MAX PEAK

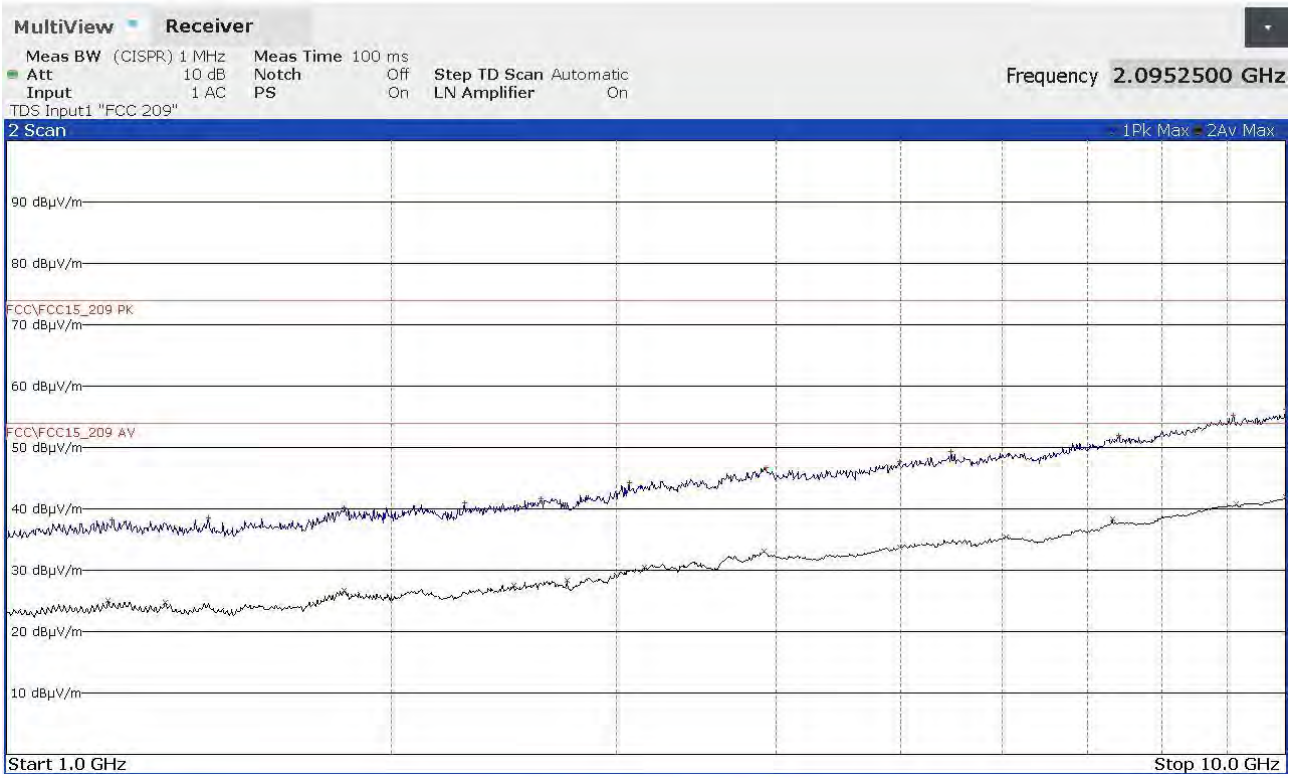
Freq Hz	Lev dBuV/m	Margin dB
1236250000	+39,09	-34,89
1400750000	+38,51	-35,47
1835750000	+40,65	-33,33
2492000000	+41,58	-32,40
2745750000	+42,66	-31,32
3102000000	+44,49	-29,49
3925250000	+47,57	-26,41
4967000000	+47,95	-26,03
5969250000	+49,74	-24,24
6623500000	+50,57	-23,41
7333000000	+52,59	-21,39
9158500000	+54,51	-19,47
9974500000	+56,39	-17,59

AVERAGE

Freq Hz	Lev dBuV/m	Margin dB
1201000000	+25,16	-28,82
1330250000	+24,74	-29,24
1836250000	+26,69	-27,29
2492500000	+27,59	-26,39
2745500000	+29,16	-24,82
3154750000	+30,39	-23,59
3912500000	+33,00	-20,98
4996750000	+33,86	-20,12
6043750000	+35,39	-18,59
7321500000	+38,05	-15,93
9152000000	+41,14	-12,84
9997500000	+41,88	-12,10

23187901_2

Gandini 23187902



FINAL RESULT TABLE

MAX PEAK

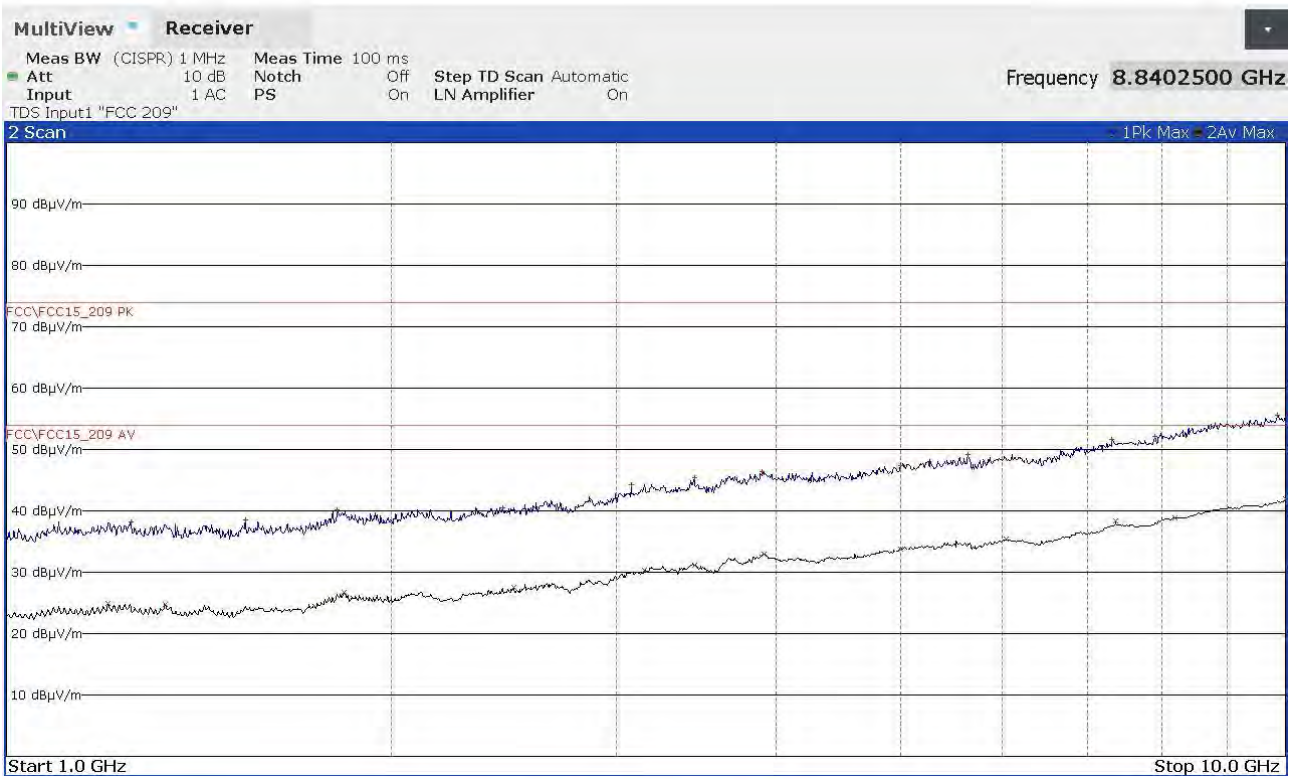
Freq Hz	Lev dBuV/m	Margin dB
1210000000	+38,17	-35,81
1437750000	+38,55	-35,43
1836000000	+40,21	-33,77
2281250000	+41,05	-32,93
2616000000	+41,62	-32,36
3067500000	+44,21	-29,77
3925500000	+46,80	-27,18
4990000000	+47,66	-26,32
5479250000	+49,29	-24,69
7412750000	+52,01	-21,97
9106000000	+55,20	-18,78
9993750000	+56,27	-17,71

AVERAGE

Freq Hz	Lev dBuV/m	Margin dB
1201000000	+25,08	-28,90
1330250000	+24,82	-29,16
1836000000	+26,74	-27,24
2492500000	+27,62	-26,36
2745500000	+28,38	-25,60
3155500000	+30,44	-23,54
3912500000	+33,05	-20,93
4996250000	+33,85	-20,13
6042750000	+35,42	-18,56
7321500000	+38,28	-15,70
9152000000	+40,80	-13,18
9996500000	+41,93	-12,05

23187902_2

Gandini 23187903



FINAL RESULT TABLE

MAX PEAK

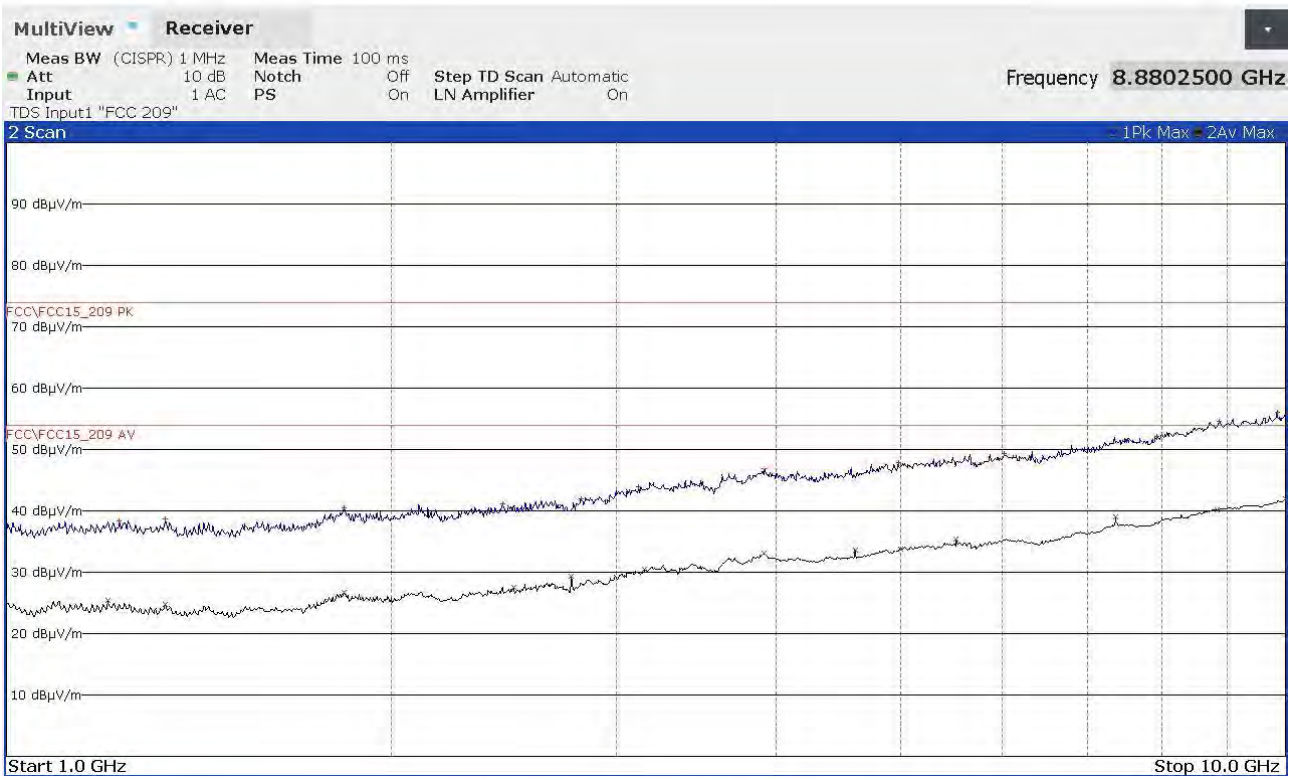
Freq Hz	Lev dBuV/m	Margin dB
1250750000	+38,21	-35,77
1537250000	+38,50	-35,48
1814750000	+40,22	-33,76
2442750000	+40,54	-33,44
3080500000	+44,30	-29,68
3450500000	+45,42	-28,56
3898250000	+46,44	-27,54
5005250000	+47,36	-26,62
5643250000	+49,15	-24,83
7316000000	+51,67	-22,31
7906250000	+52,13	-21,85
9853000000	+55,57	-18,41

AVERAGE

Freq Hz	Lev dBuV/m	Margin dB
1201000000	+24,91	-29,07
1330250000	+24,71	-29,27
1836750000	+26,73	-27,25
2493000000	+27,58	-26,40
3155750000	+30,36	-23,62
3450750000	+31,15	-22,83
3912750000	+33,01	-20,97
4998250000	+33,83	-20,15
6044000000	+35,40	-18,58
7371250000	+38,40	-15,58
8189750000	+38,90	-15,08
9992000000	+41,89	-12,09

23187903_2

Gandini 23187904



FINAL RESULT TABLE

MAX PEAK

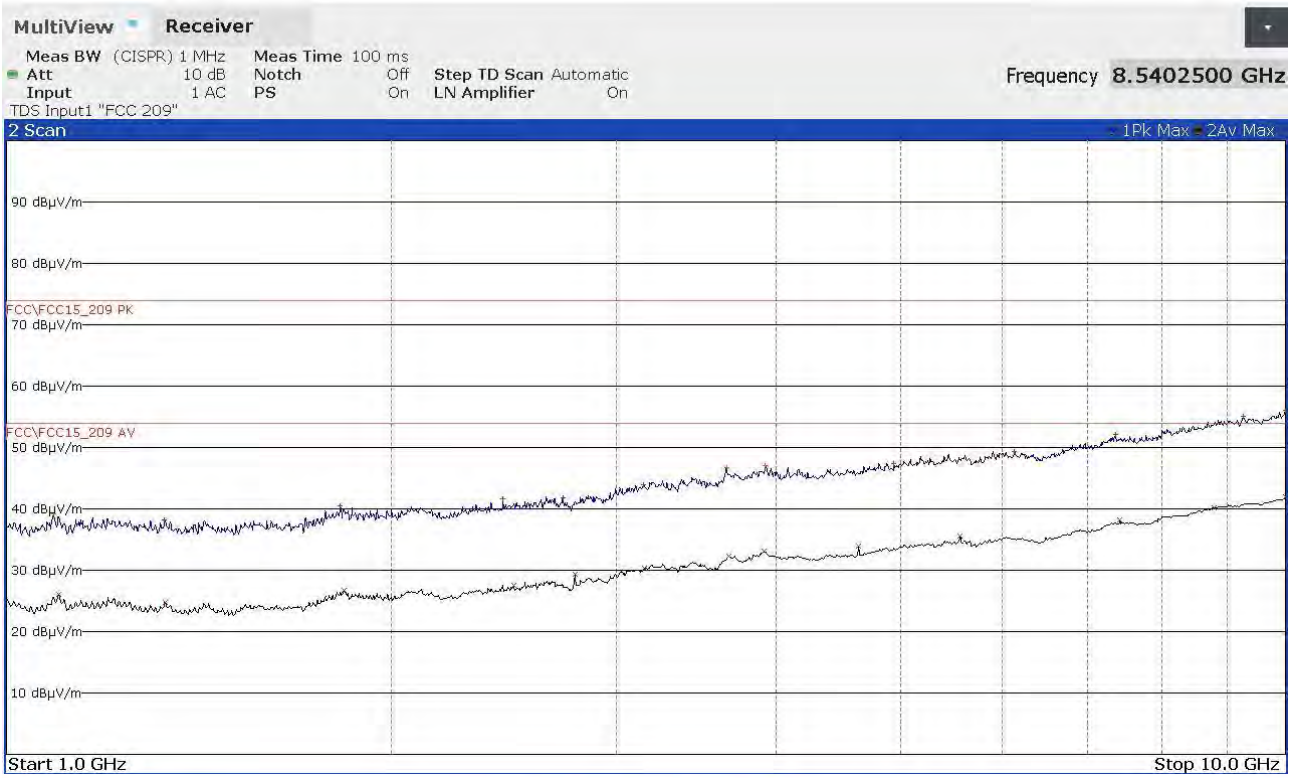
Freq Hz	Lev dBuV/m	Margin dB
1225000000	+38,38	-35,60
1331000000	+38,68	-35,30
1835750000	+40,49	-33,49
2443750000	+41,20	-32,78
2811750000	+42,02	-31,96
3119750000	+43,96	-30,02
3913500000	+46,91	-27,07
4982500000	+47,90	-26,08
6024250000	+49,28	-24,70
7935500000	+52,16	-21,82
8871000000	+54,57	-19,41
9847500000	+56,05	-17,93

AVERAGE

Freq Hz	Lev dBuV/m	Margin dB
1201000000	+25,33	-28,65
1330500000	+24,72	-29,26
1835750000	+26,70	-27,28
2492750000	+27,62	-26,36
2764250000	+29,38	-24,60
3155750000	+30,41	-23,57
3912500000	+33,05	-20,93
4607000000	+33,53	-20,45
4998000000	+33,85	-20,13
5528500000	+35,42	-18,56
7371250000	+38,97	-15,01
8849250000	+40,22	-13,76
9996500000	+41,89	-12,09

23187904_2

Gandini 23187905

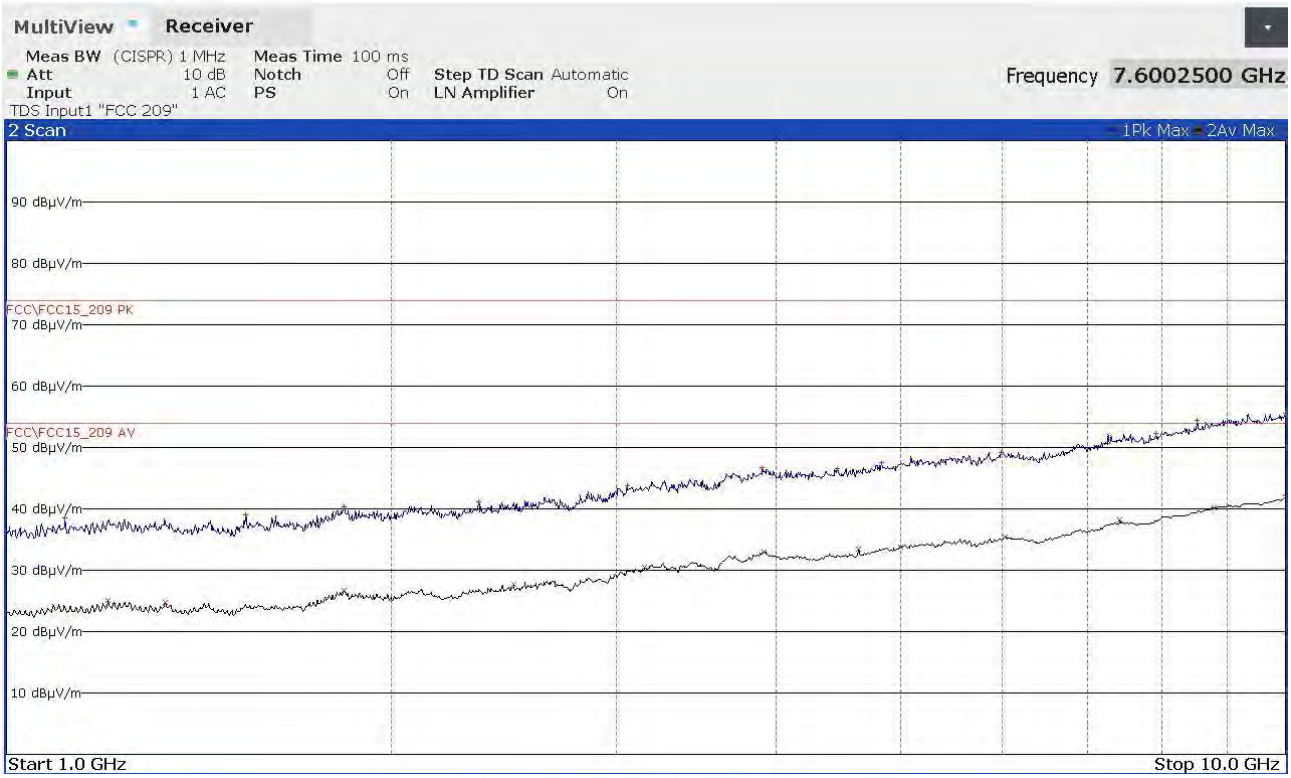


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1088000000	+39,12	-34,86	1099250000	+26,12	-27,86
1329250000	+38,23	-35,75	1330750000	+24,71	-29,27
1824000000	+40,49	-33,49	1836500000	+26,71	-27,27
2444000000	+41,64	-32,34	2492500000	+27,60	-26,38
2721500000	+41,86	-32,12	2783500000	+29,39	-24,59
3150750000	+43,91	-30,07	3156500000	+30,40	-23,58
3655500000	+46,74	-27,24	3668750000	+32,29	-21,69
3921500000	+47,04	-26,94	3913250000	+33,05	-20,93
4938500000	+47,41	-26,57	4639000000	+34,01	-19,97
6139500000	+49,35	-24,63	5566750000	+35,60	-18,38
7368000000	+52,15	-21,83	7422500000	+38,26	-15,72
9271250000	+55,09	-18,89	8788000000	+40,24	-13,74
9995000000	+56,06	-17,92	9994000000	+41,89	-12,09

23187905_2

Gandini 23187906



FINAL RESULT TABLE

MAX PEAK

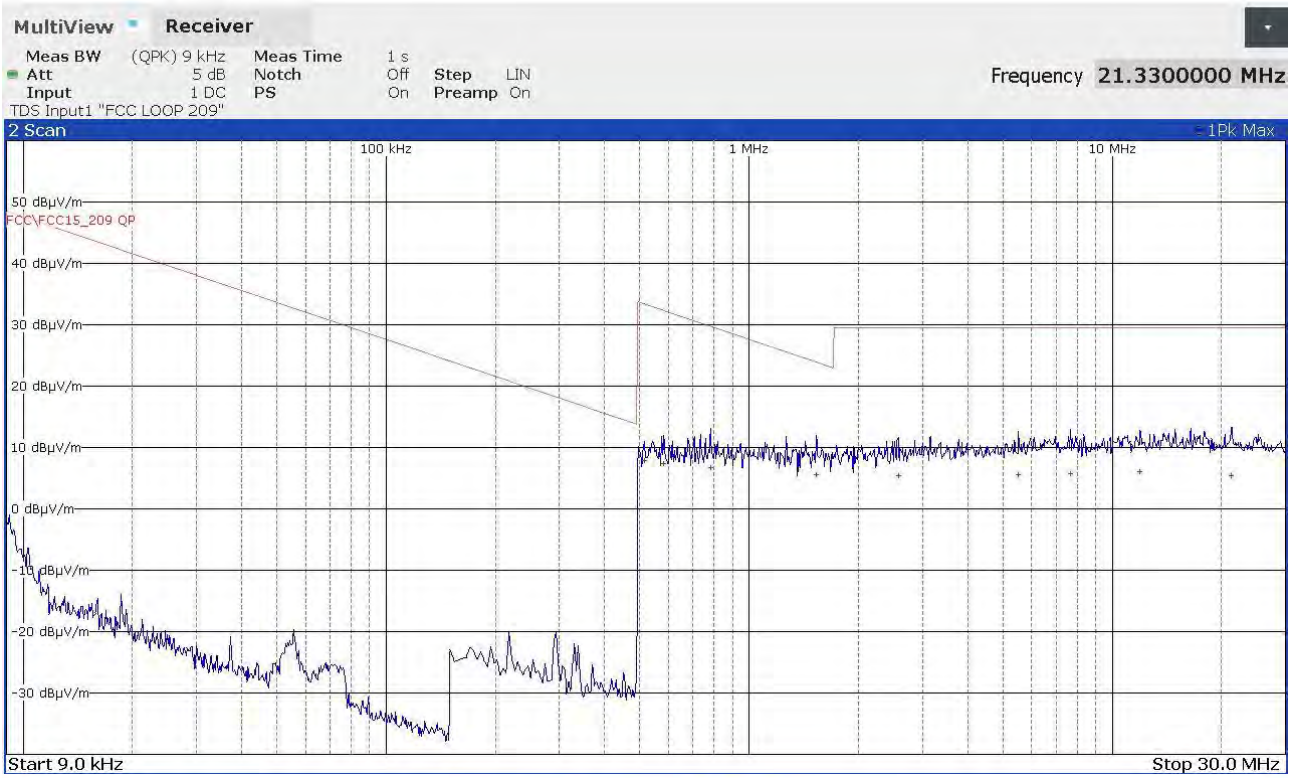
Freq Hz	Lev dBuV/m	Margin dB
1110250000	+38,53	-35,45
1538750000	+39,05	-34,93
1836500000	+40,35	-33,63
2341750000	+41,21	-32,77
3056500000	+43,69	-30,29
3897750000	+46,79	-27,19
4461750000	+46,59	-27,39
4833000000	+47,55	-26,43
5998500000	+49,24	-24,74
7918250000	+52,25	-21,73
8532500000	+54,39	-19,59
9996250000	+55,50	-18,48

AVERAGE

Freq Hz	Lev dBuV/m	Margin dB
1201000000	+25,01	-28,97
1330250000	+24,77	-29,21
1836250000	+26,72	-27,26
2493000000	+27,63	-26,35
3156250000	+30,42	-23,56
3912750000	+33,02	-20,96
4639000000	+33,40	-20,58
4999000000	+33,83	-20,15
6042500000	+35,40	-18,58
7422500000	+38,19	-15,79
8788500000	+40,21	-13,77
9993500000	+41,90	-12,08

23187906_2

Gandini 23187907



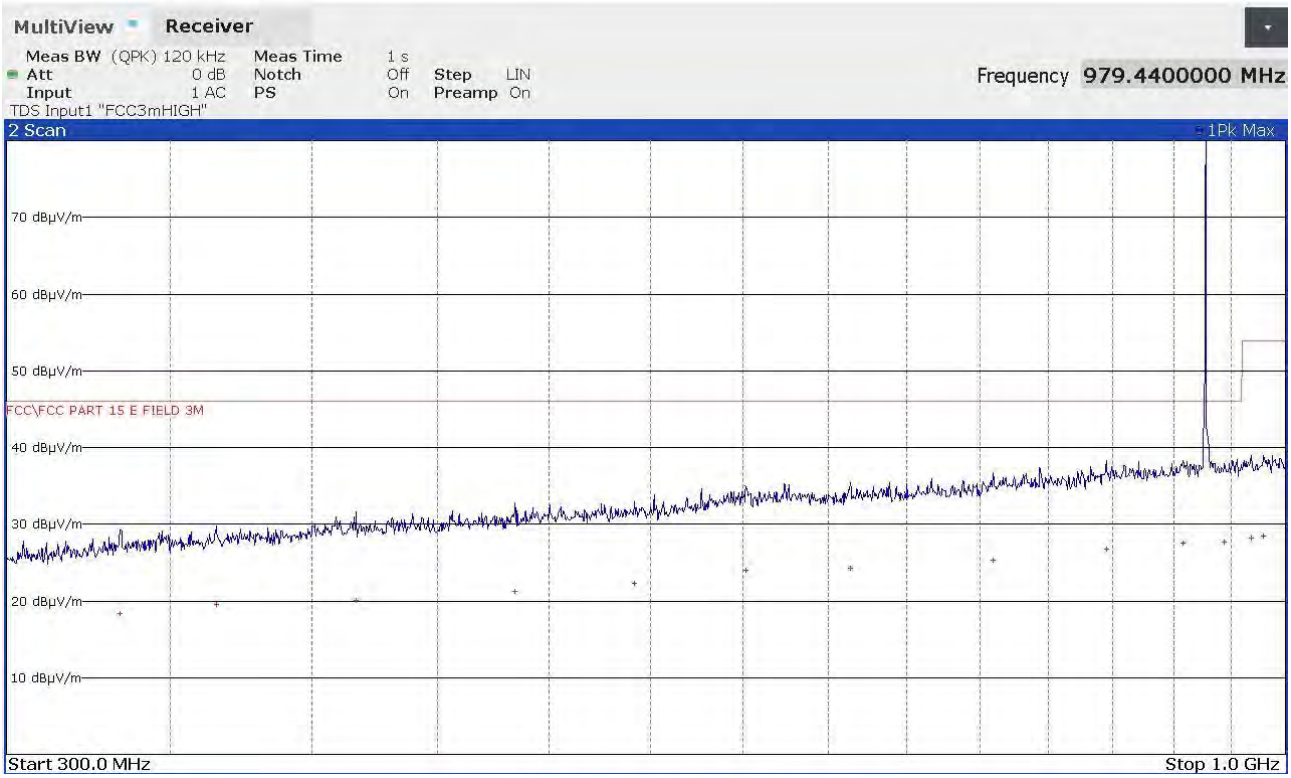
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
514000	+7,81	-25,57
582000	+7,43	-24,88
782000	+6,68	-23,06
1534000	+5,57	-18,32
2574000	+5,34	-24,20
5506000	+5,65	-23,89
7670000	+5,79	-23,75
11942000	+6,02	-23,52
21330000	+5,49	-24,05

23187907_2

Gandini 23187908



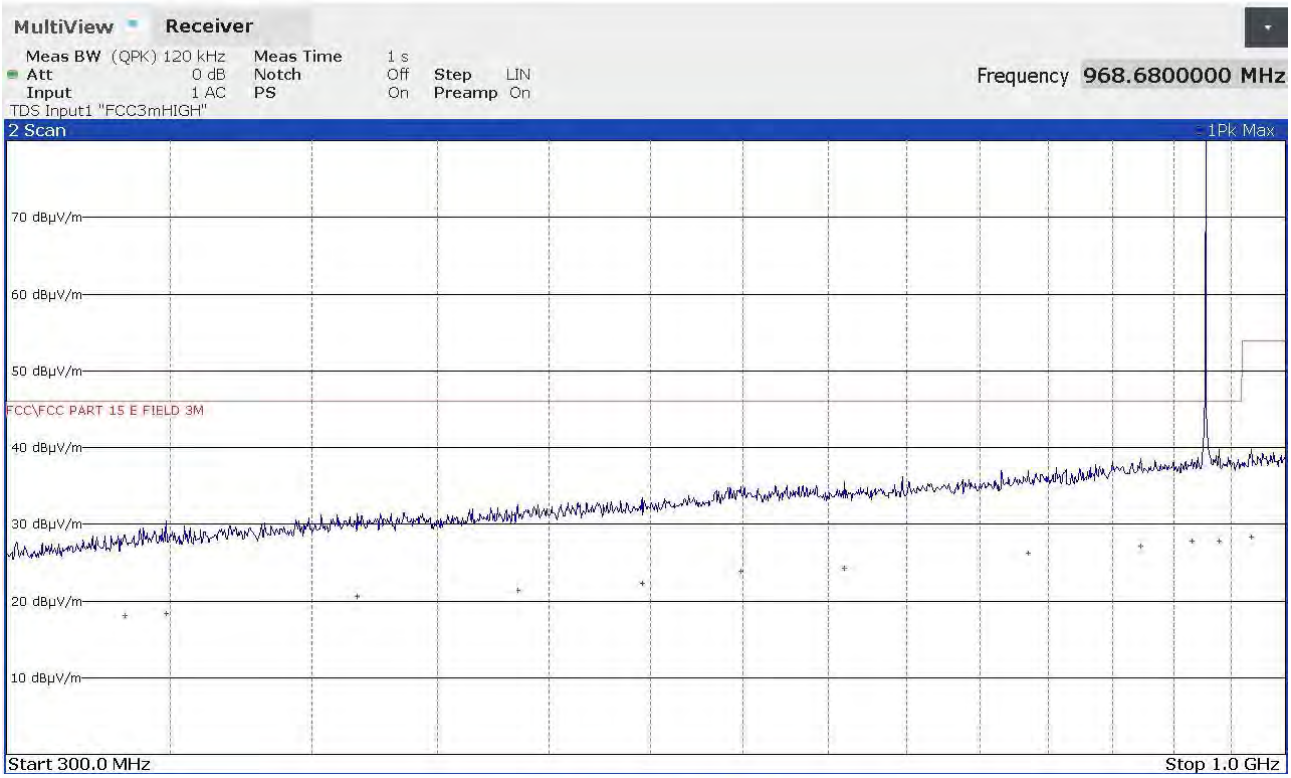
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
333880000	+18,38	-27,62
365600000	+19,49	-26,51
416880000	+20,05	-25,95
484200000	+21,28	-24,72
541920000	+22,23	-23,77
601560000	+24,03	-21,97
664160000	+24,20	-21,80
759640000	+25,28	-20,72
844920000	+26,75	-19,25
908360000	+27,56	-18,44
944040000	+27,66	-18,34
968200000	+28,15	-25,75
979440000	+28,52	-25,38

23187908_2

Gandini 23187909



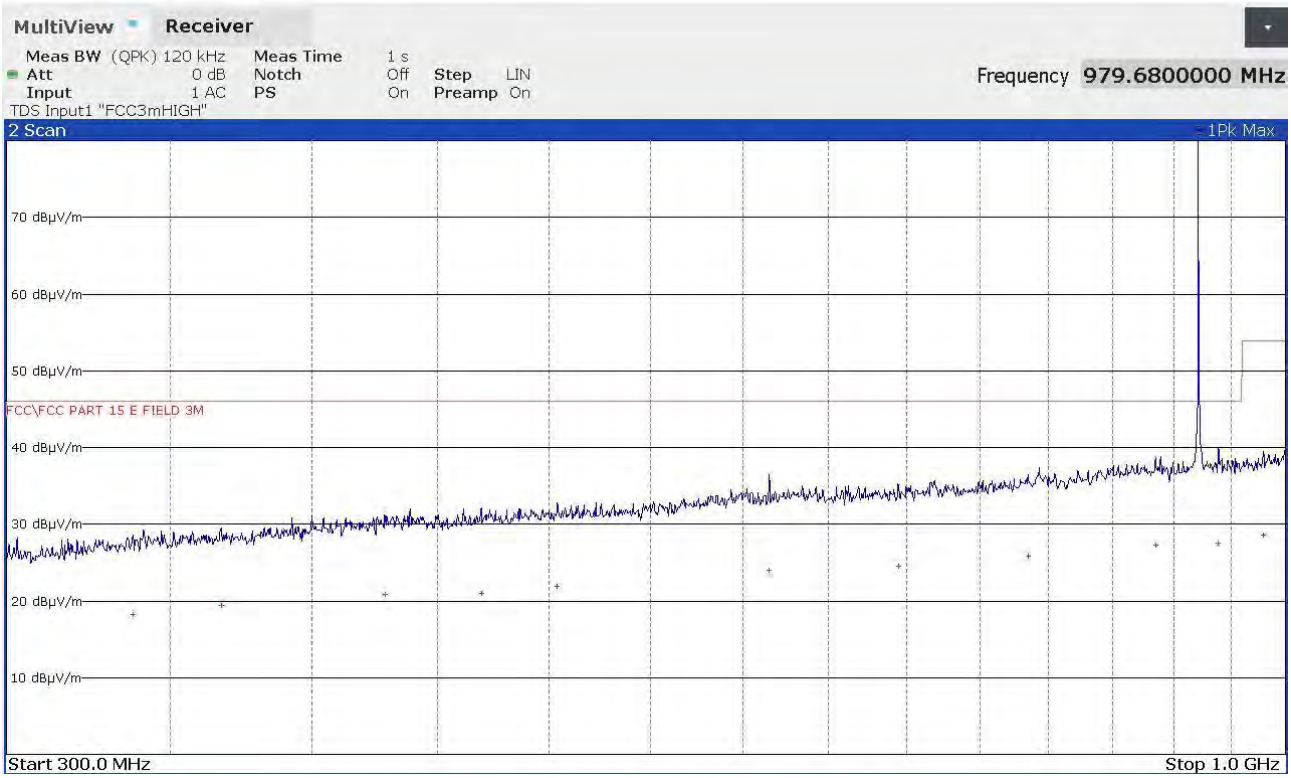
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
335400000	+18,04	-27,96
348600000	+18,42	-27,58
417480000	+20,64	-25,36
485320000	+21,36	-24,64
545720000	+22,25	-23,75
598840000	+23,91	-22,09
660240000	+24,21	-21,79
784920000	+26,24	-19,76
872720000	+27,09	-18,91
915840000	+27,86	-18,14
939400000	+27,81	-18,19
968680000	+28,29	-25,61

23187909_2

Gandini 23187910



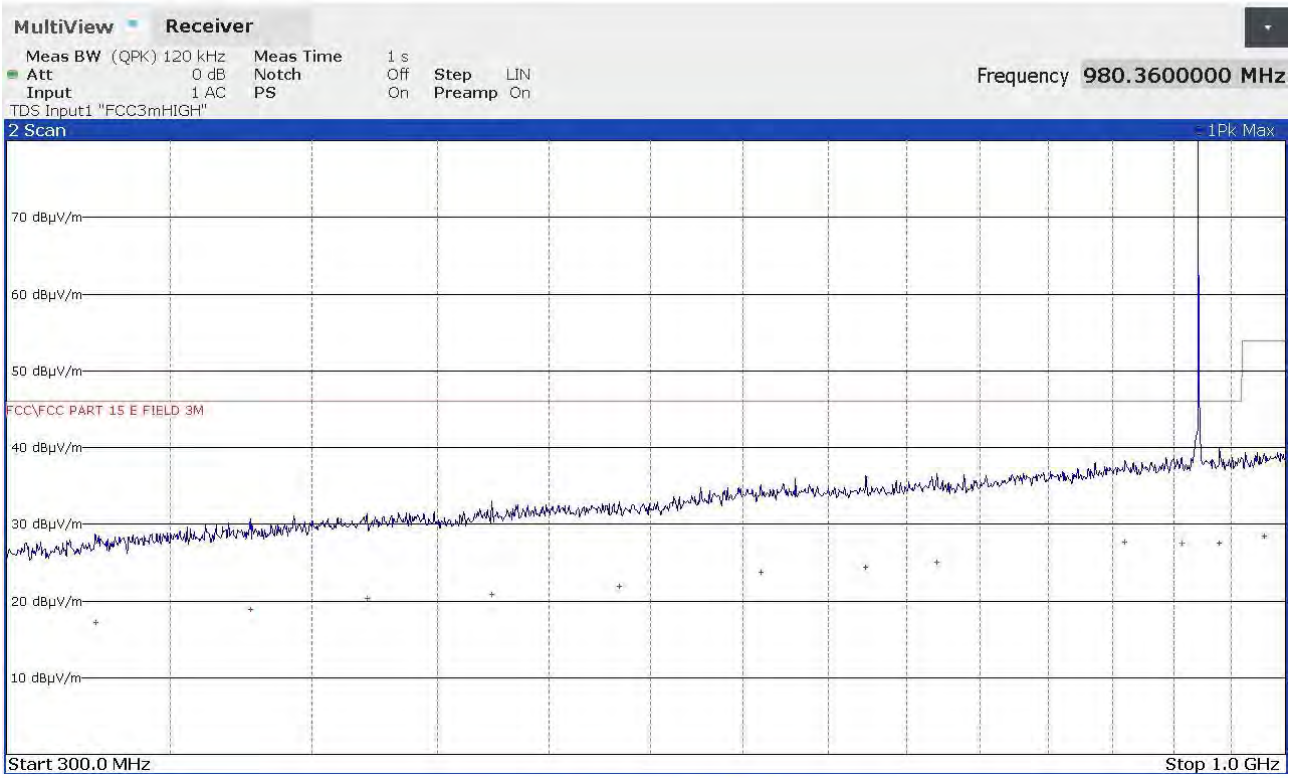
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
337880000	+18,21	-27,79
367160000	+19,46	-26,54
428320000	+20,91	-25,09
469080000	+20,94	-25,06
503920000	+21,96	-24,04
615200000	+23,94	-22,06
694480000	+24,55	-21,45
784760000	+25,83	-20,17
884880000	+27,24	-18,76
938920000	+27,55	-18,45
979680000	+28,57	-25,33

23187910_2

Gandini 23187911



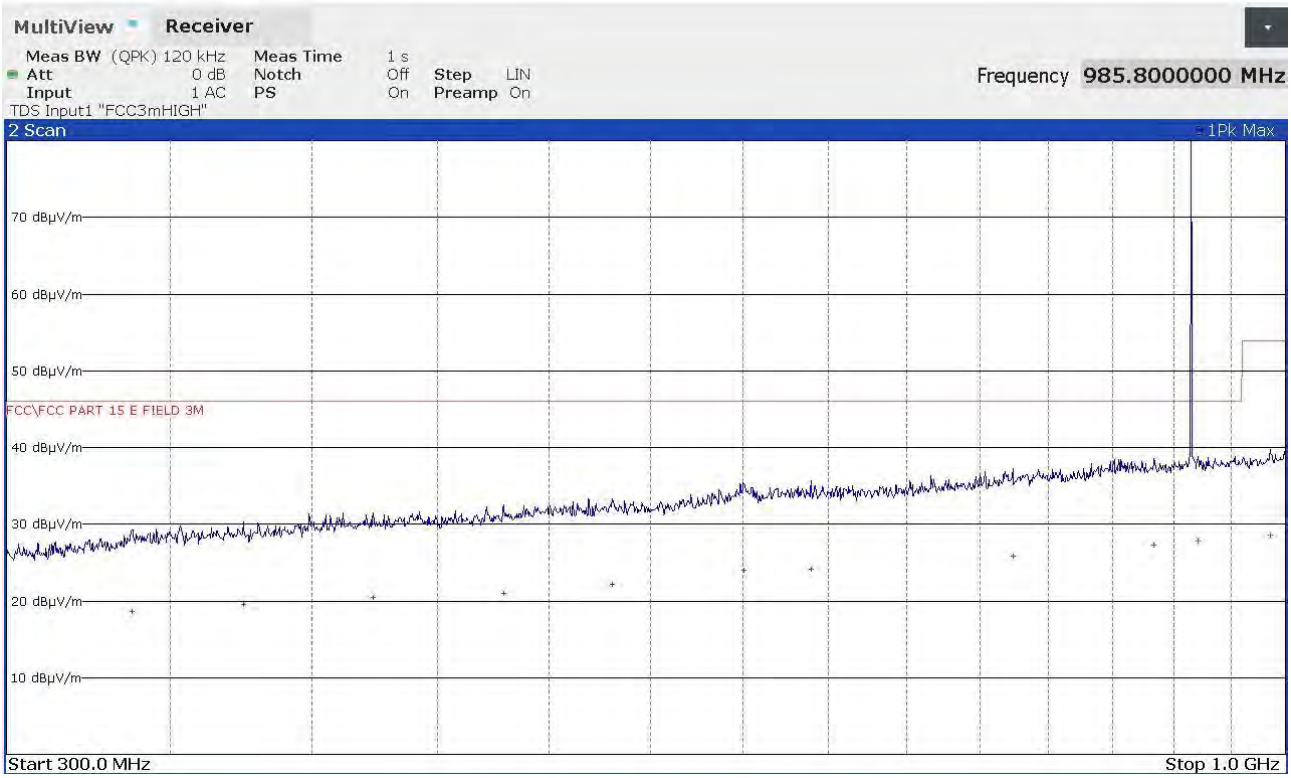
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
326200000	+17,23	-28,77
377400000	+18,92	-27,08
421160000	+20,28	-25,72
473640000	+20,87	-25,13
534120000	+21,92	-24,08
610160000	+23,77	-22,23
673720000	+24,43	-21,57
720280000	+25,10	-20,90
859880000	+27,61	-18,39
906800000	+27,58	-18,42
939760000	+27,60	-18,40
980360000	+28,52	-25,38

23187911_2

Gandini 23187912



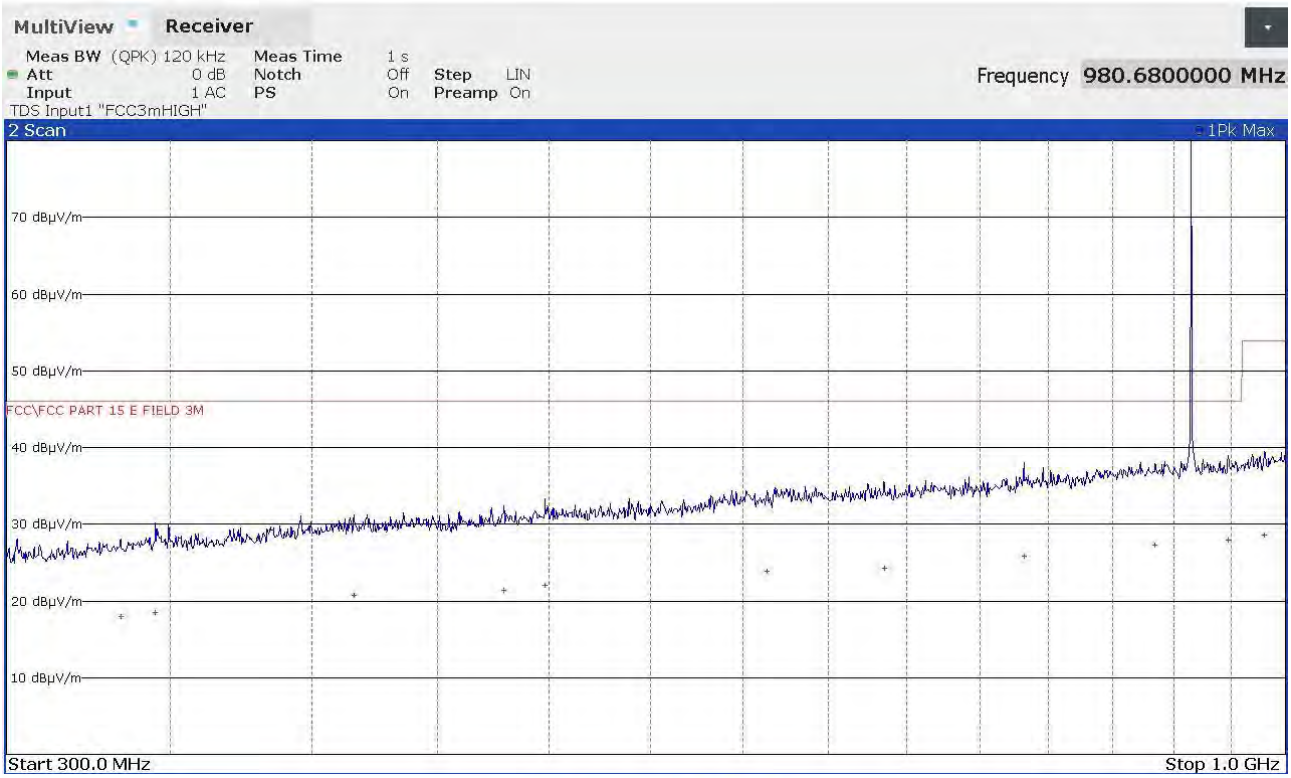
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
337800000	+18,57	-27,43
374960000	+19,60	-26,40
423560000	+20,49	-25,51
478960000	+21,02	-24,98
530560000	+22,14	-23,86
600360000	+23,98	-22,02
639800000	+24,11	-21,89
773920000	+25,83	-20,17
883760000	+27,28	-18,72
921320000	+27,84	-18,16
985800000	+28,56	-25,34

23187912_2

Gandini 23187913



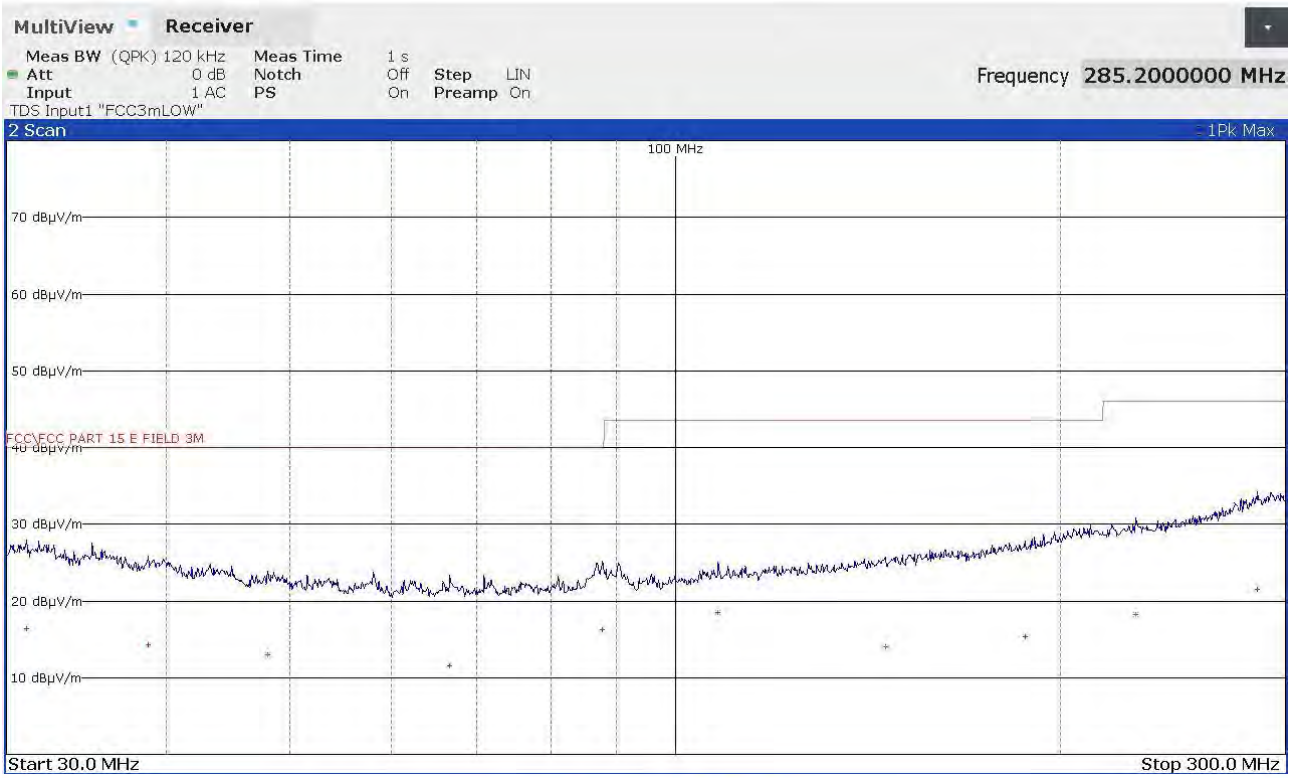
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
334040000	+18,02	-27,98
345160000	+18,50	-27,50
416000000	+20,70	-25,30
479240000	+21,34	-24,66
498000000	+21,99	-24,01
613920000	+23,91	-22,09
685360000	+24,25	-21,75
781920000	+25,90	-20,10
884600000	+27,26	-18,74
947280000	+28,00	-18,00
980680000	+28,63	-25,27

23187913_2

Gandini 23187914



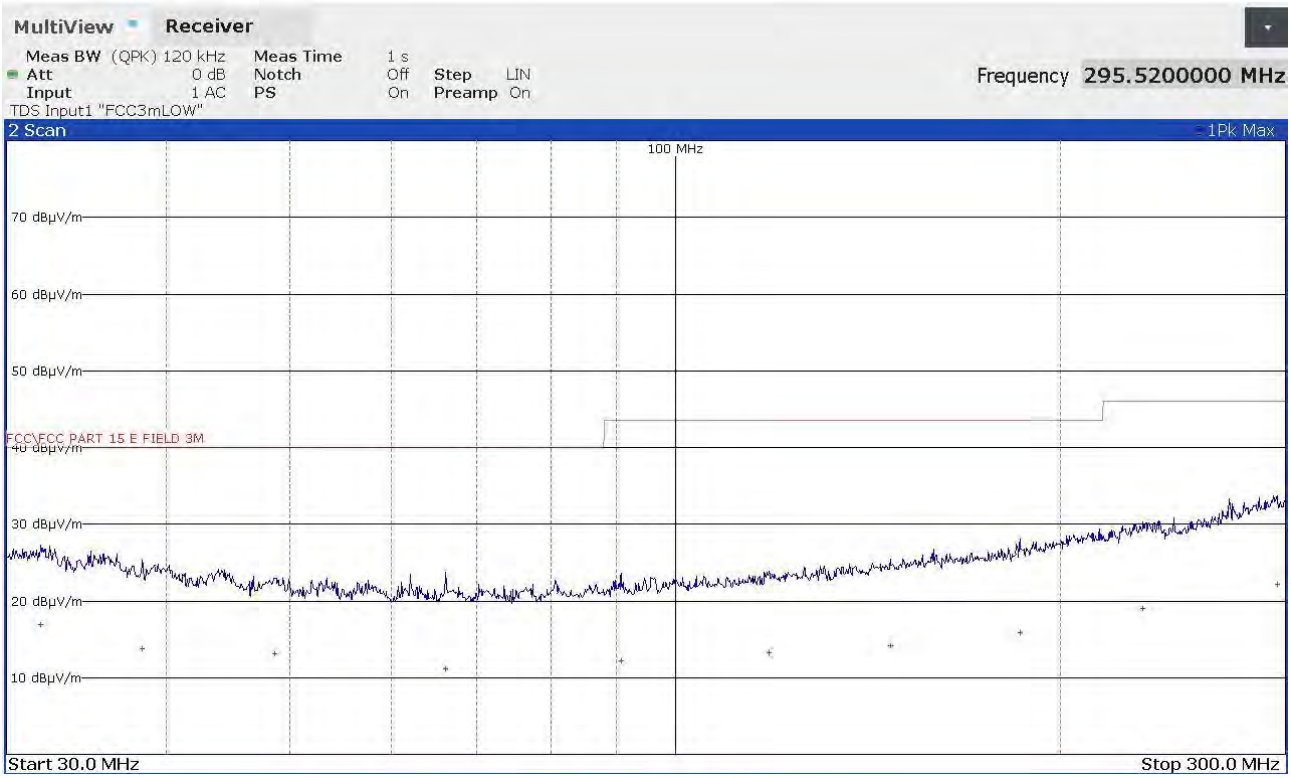
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
31120000	+16,45	-23,55
38720000	+14,31	-25,69
48000000	+12,95	-27,05
66640000	+11,55	-28,45
87760000	+16,23	-23,77
108000000	+18,55	-24,95
145960000	+13,97	-29,53
187680000	+15,40	-28,10
229160000	+18,17	-27,83
285200000	+21,57	-24,43

23187914_2

Gandini 23187915



FINAL RESULT TABLE

QUASI PEAK

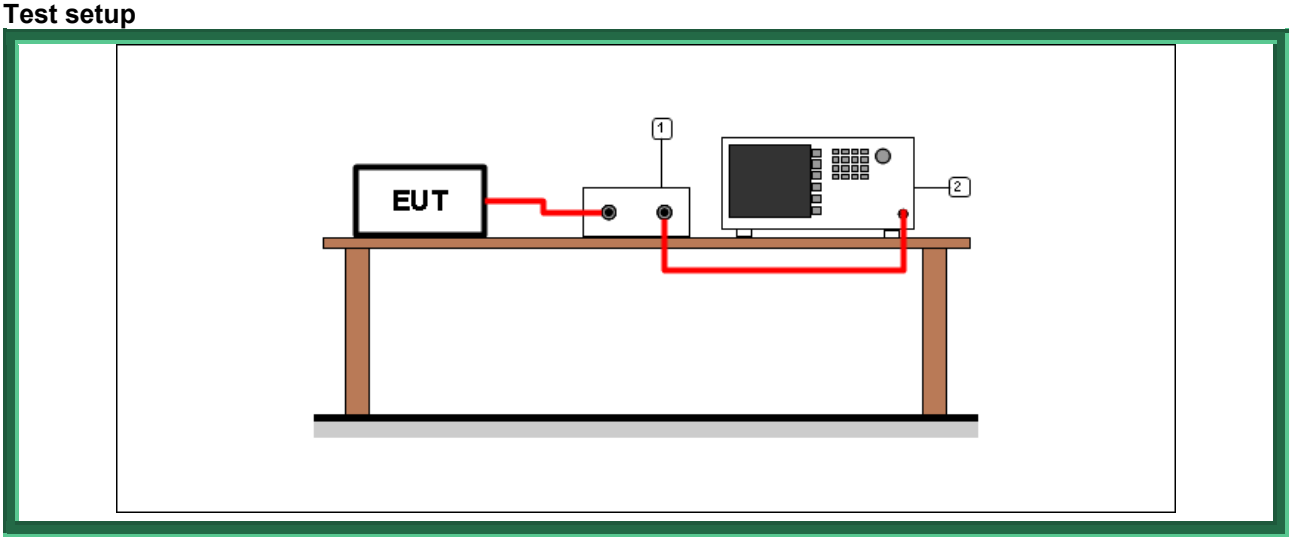
Freq Hz	Lev dBuV/m	Margin dB
31920000	+16,92	-23,08
38320000	+13,76	-26,24
48640000	+13,13	-26,87
66160000	+11,20	-28,80
90680000	+12,22	-31,28
118480000	+13,25	-30,25
147320000	+14,12	-29,38
186000000	+15,83	-27,67
232160000	+19,03	-26,97
295520000	+22,19	-23,81

23187915_2

9.4 20 dB bandwidth

Tested by .....:	G. Gandini
Test date .....:	31.01.2024
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 .....:	--

Test setup



Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

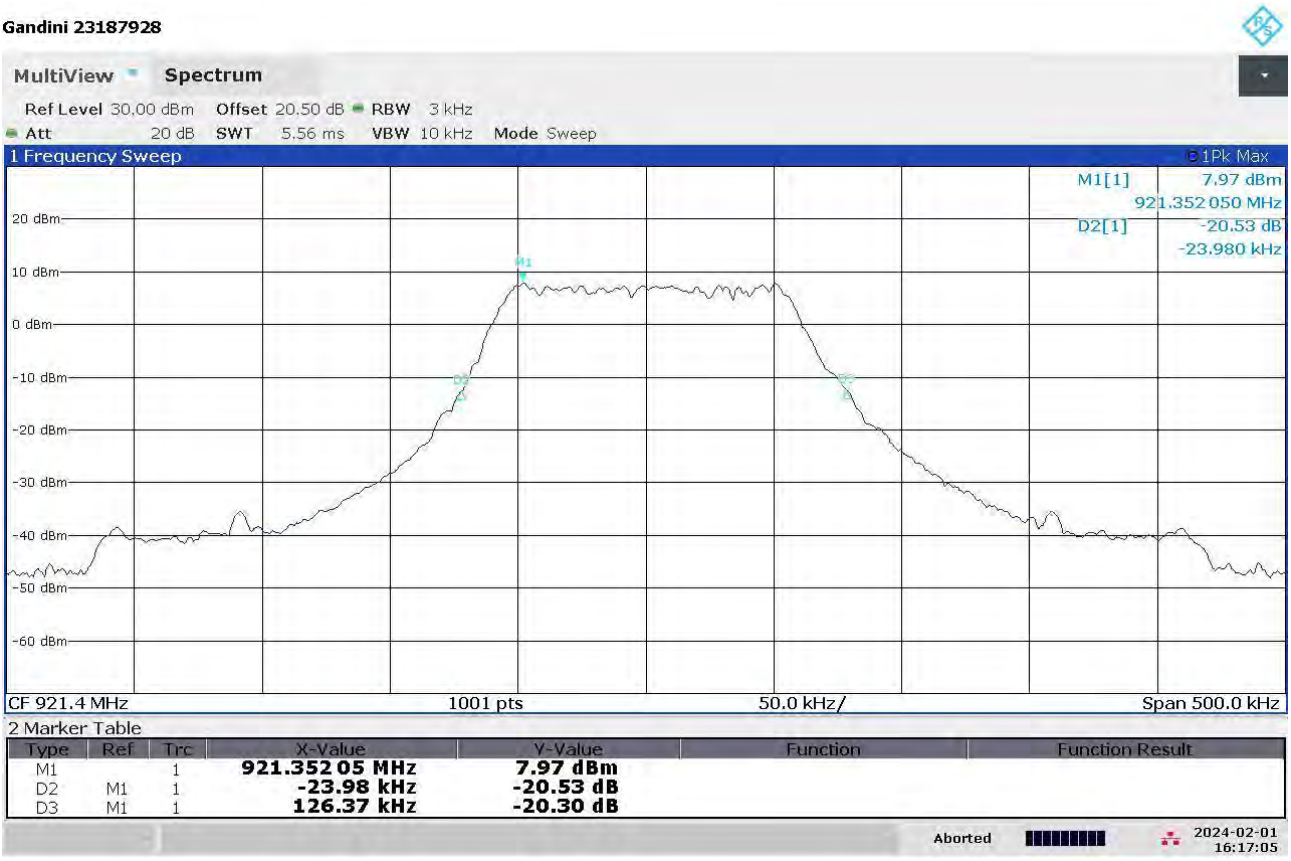
Result

Frequency (MHz)	*Graphs*	*20 dB bandwidth (kHz)*
915,20	G23187923	148,85
921,40	G23187928	150,35
927,80	G23187929	150,35

Graphs

Gandini 23187923

Gandini 23187928



Gandini 23187929

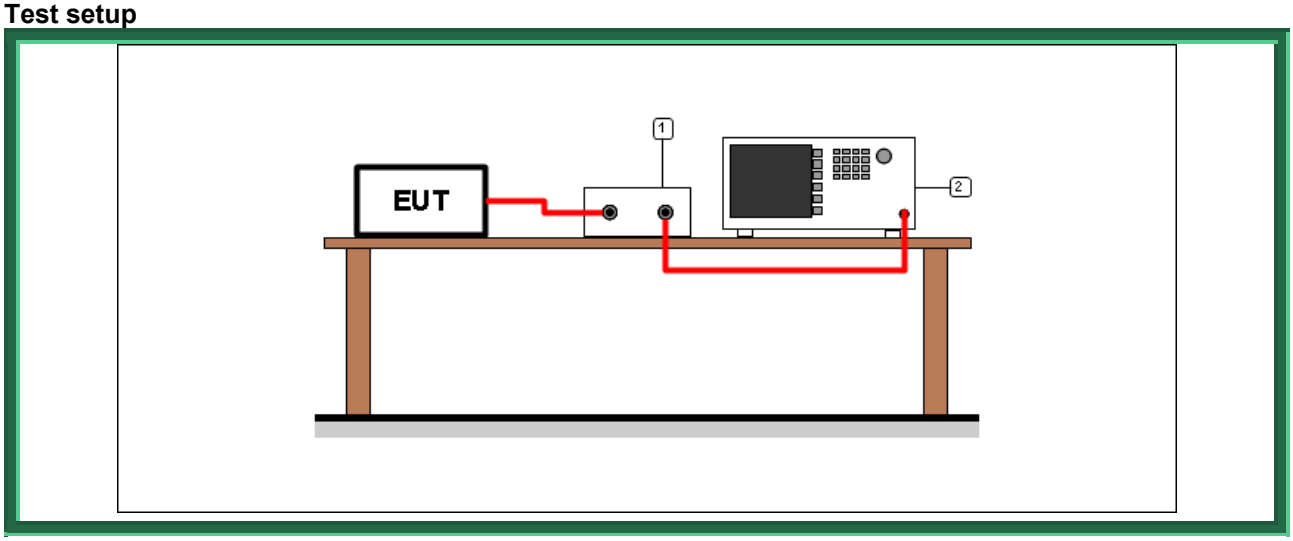
9.5 Channel separation

Tested by .....:	G. Gandini
Test date .....:	01.02.2024
Test location (stand) .....:	Laboratory
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b) ANSI C63.10 cl. 7.8.2
Supplementary test set-up description.....:	--
Supplementary information .....:	--

Acceptance limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test setup



Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

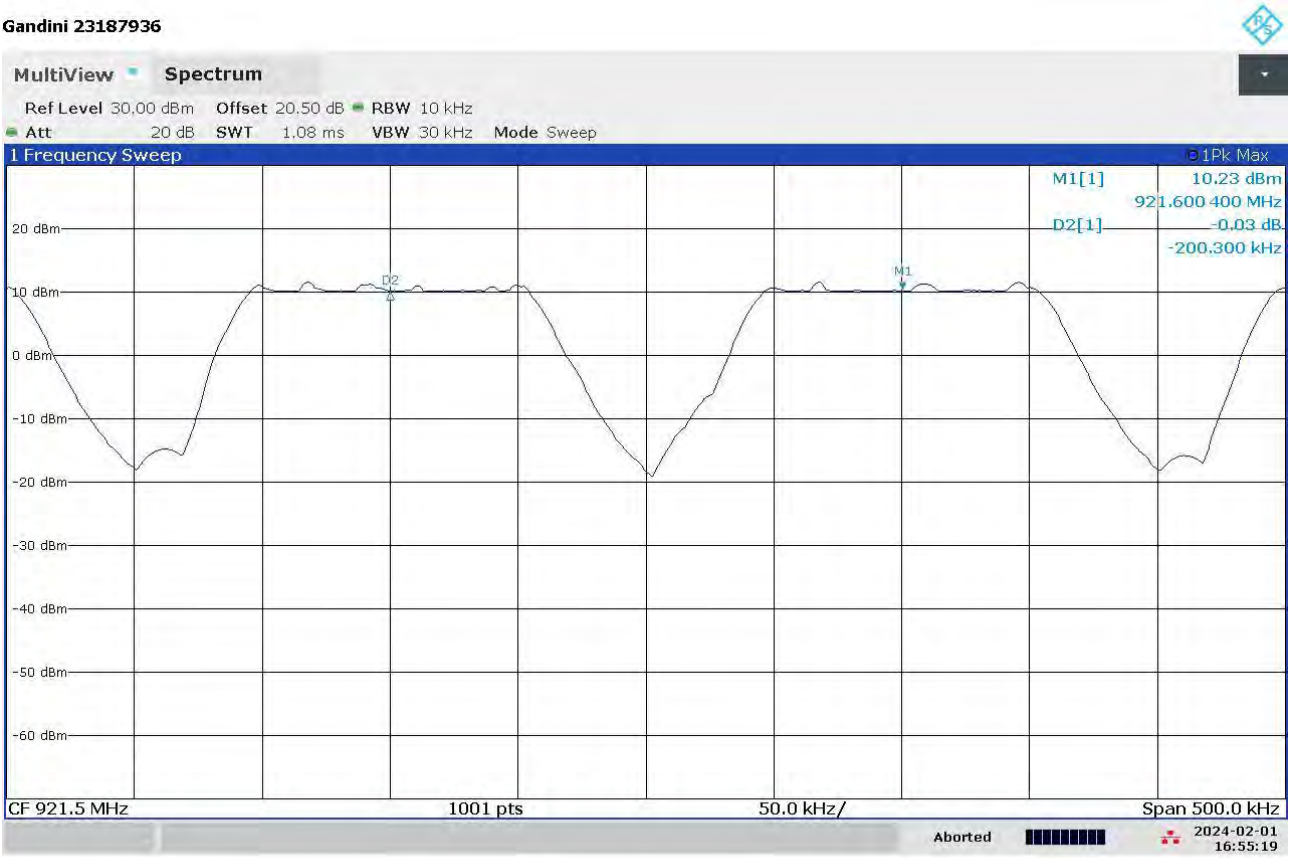
Result

Frequency band (MHz)	*Graphs*	*Channel separation (kHz)*	*Minimum channel separation required (kHz)*	*Results*
902 – 928	G23187936	200,3	150,35	Complies

Remarks: minimum channel separation is the 20 dB bandwidth, greater than 25 kHz

Graphs

Gandini 23187936



04:55:20 02/01/2024

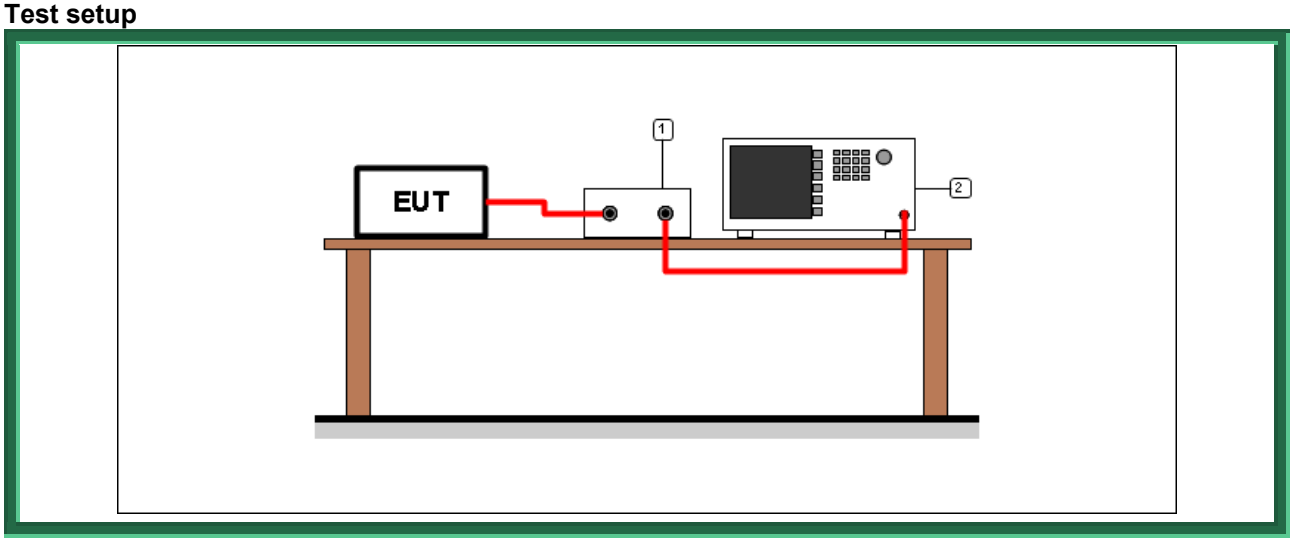
9.6 Number of hopping channels

Tested by .....:	G. Gandini
Test date .....:	01.02.2024
Test location (stand) .....:	Laboratory
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b) ANSI C63.10 cl. 7.8.3
Supplementary test set-up description.....:	--
Supplementary information .....:	--

Acceptance limits

For frequency hopping systems operating in the 902 – 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test setup



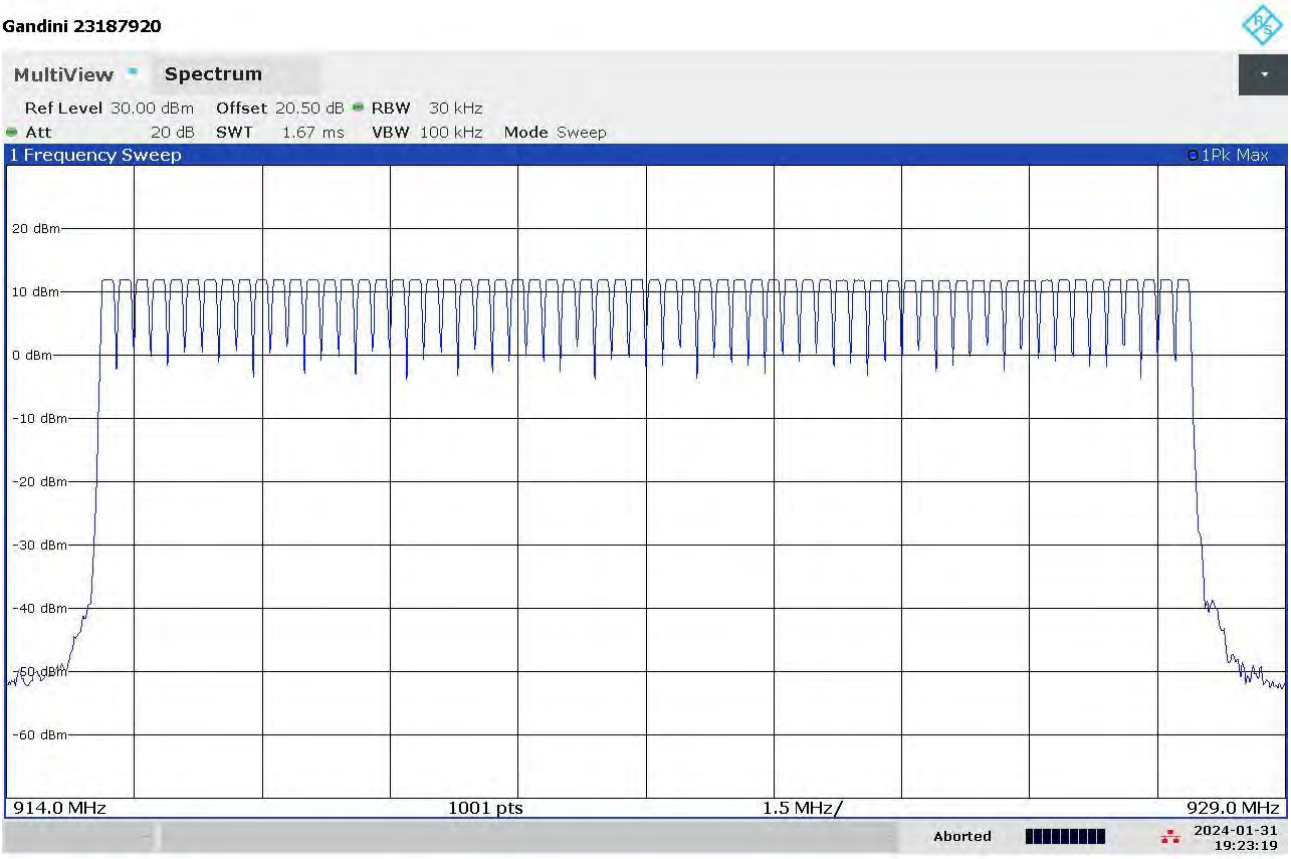
Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

Result

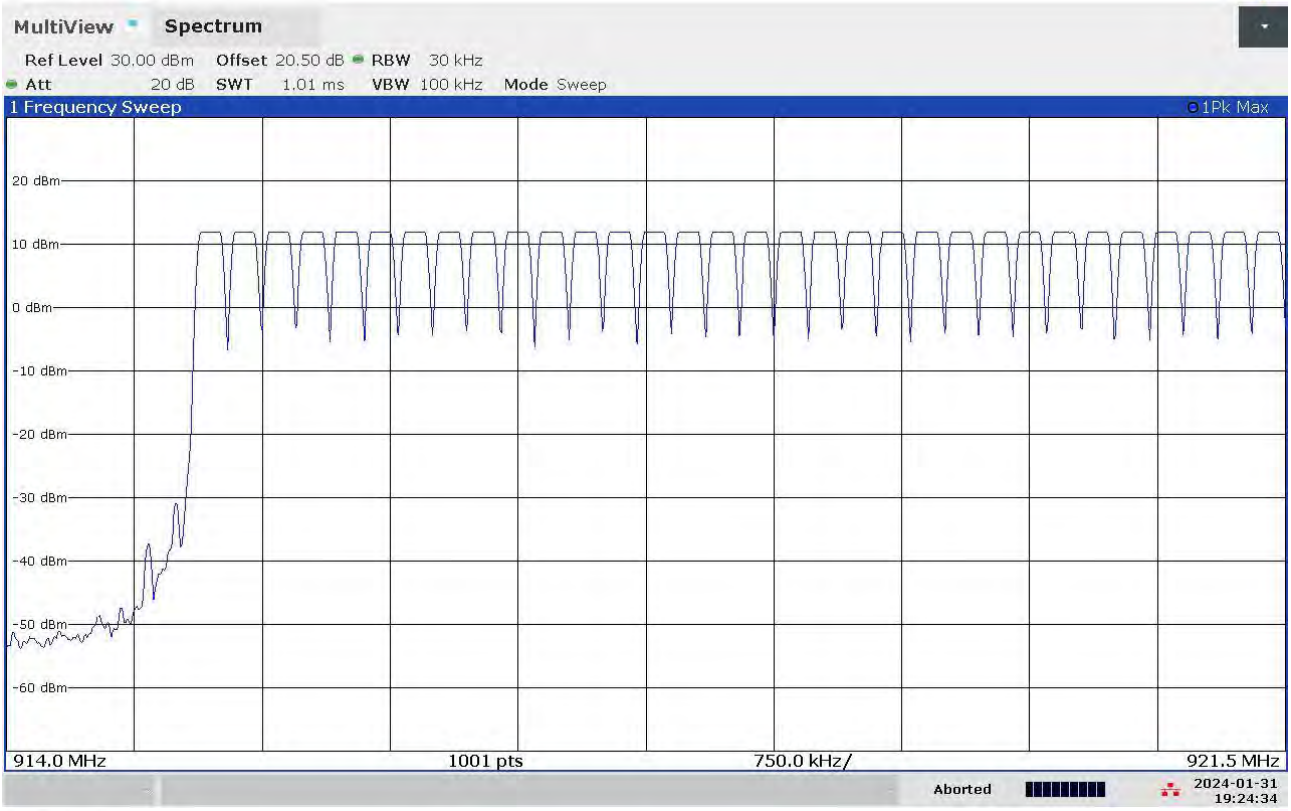
Frequency band (MHz)	*Graphs*	*Number of hopping channels*	*Minimum number of hopping channels required*	*Results*
902 – 928	G23187920 G23187921 G23187922	64	50	Complies

Graphs

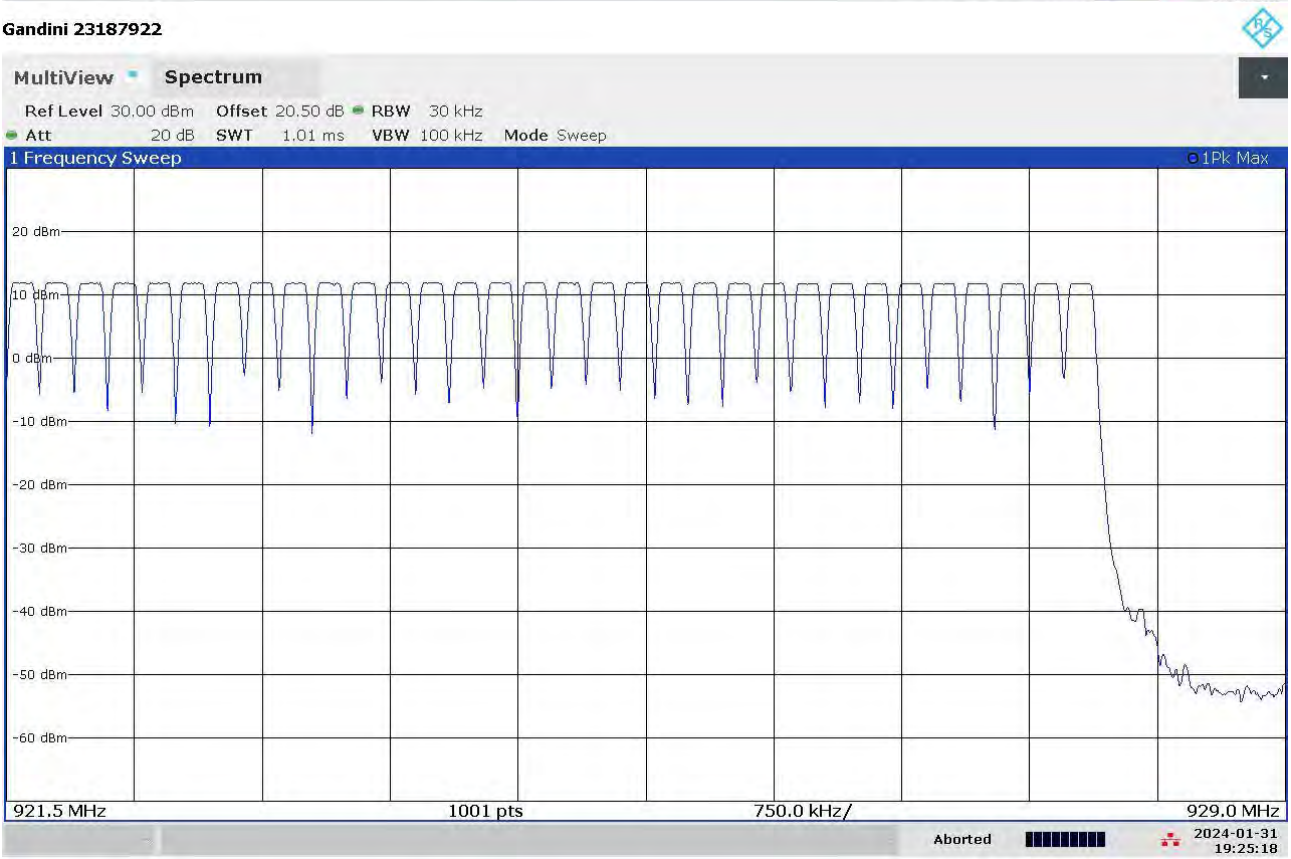
Gandini 23187920



Gandini 23187921



Gandini 23187922



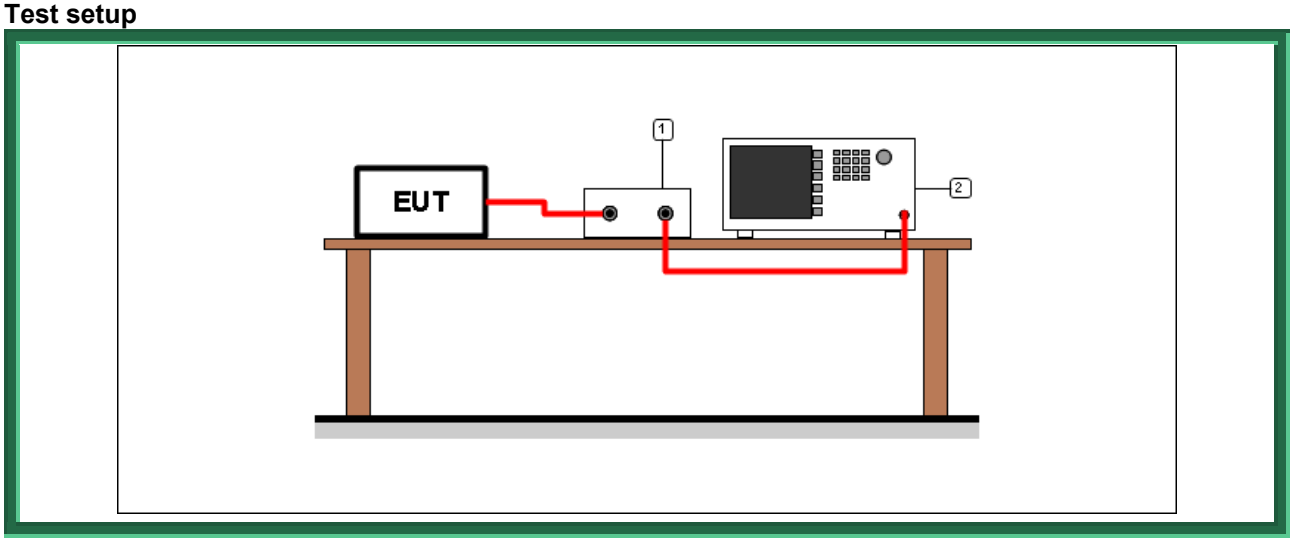
9.7 Time of occupancy

Tested by .....:	G. Gandini
Test date .....:	01.02.2024
Test location (stand) .....:	Laboratory
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b) ANSI C63.10 cl. 7.8.4
Supplementary test set-up description.....:	--
Supplementary information .....:	--

Acceptance limits

For frequency hopping systems operating in the 902 – 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test setup



Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

Result

Frequency (MHz)	*Graphs*	*Dwell time (ms)*
921,40	G23187937	40,38

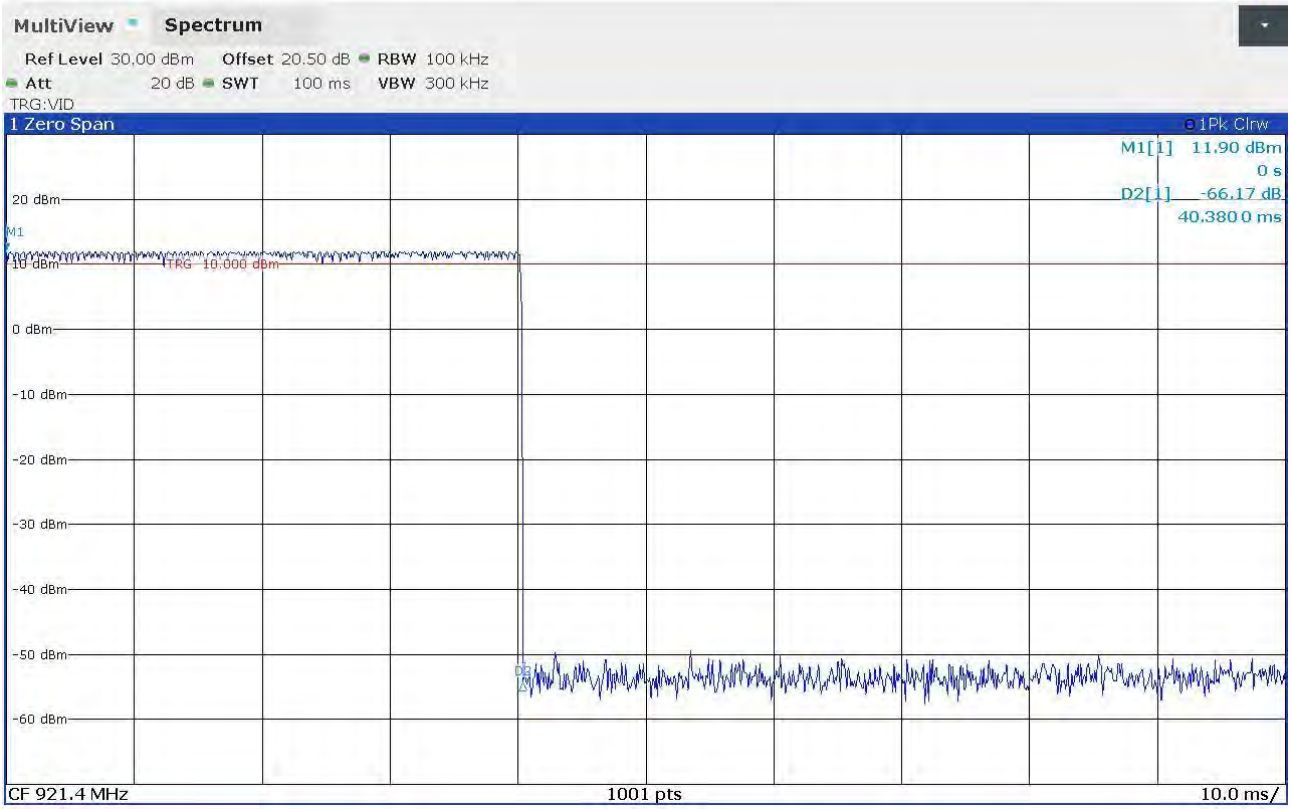
Frequency (MHz)	*Graphs*	*Number of transmissions*	*Period*
921,40	G23187938	4	20 s

Remarks: only the highest peaks have been considered. The lowest peaks are due to the auxiliary receiver unit

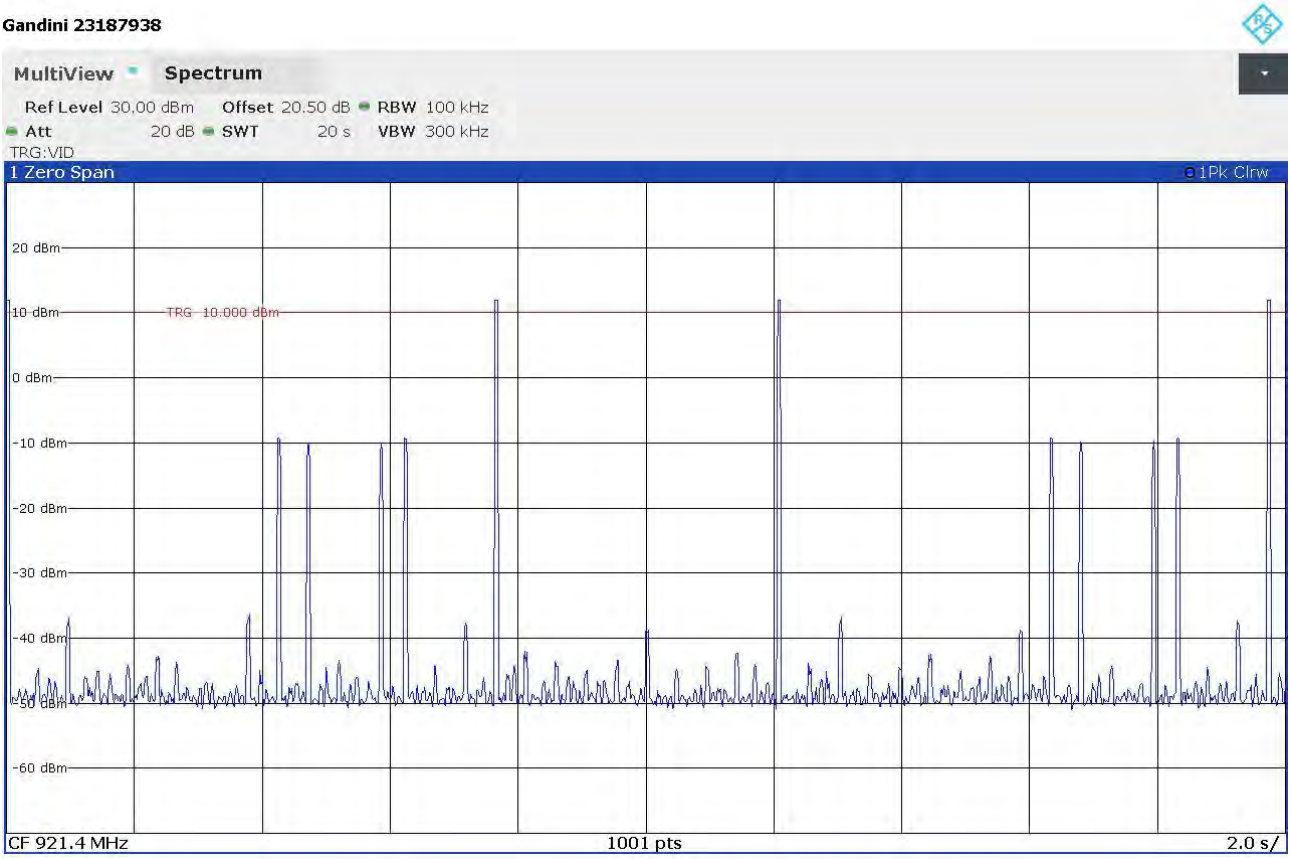
Time of occupancy (Dwell time x Nr. transmissions)	***Maximum allowed time of occupancy***	***Results***
161,52	400 ms	Complies

Graphs

Gandini 23187937



Gandini 23187938



9.8 Band edge

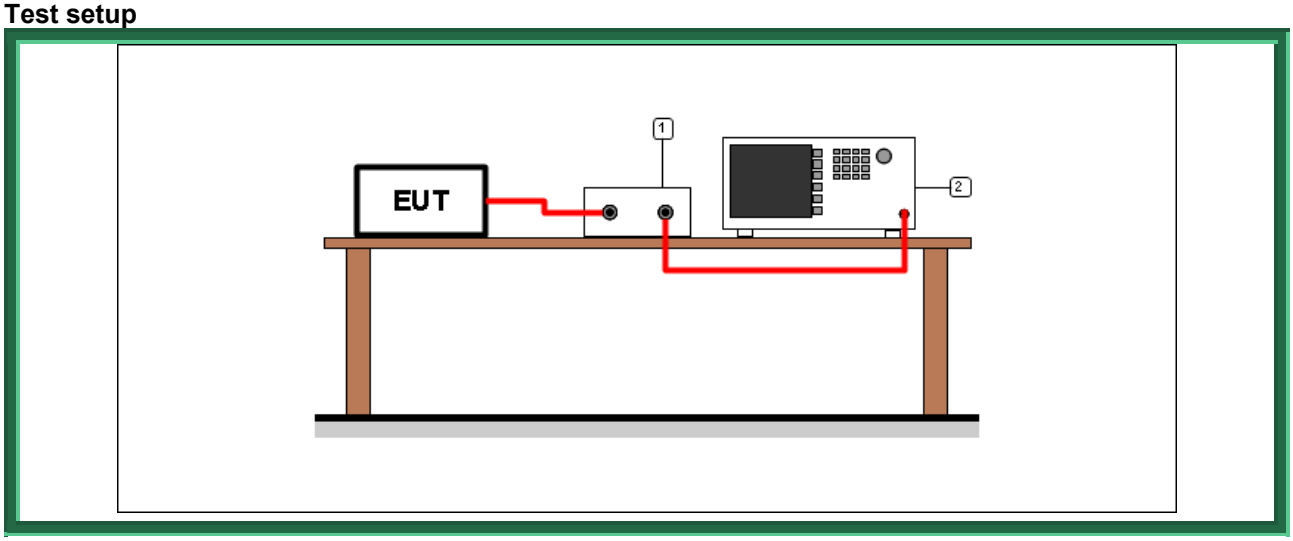
Tested by .....:	G. Gandini
Test date .....:	31.01.2024
Test location (stand) .....:	Laboratory
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.247 ANSI C63.10 cl. 7.8.6
Supplementary test set-up description.....:	--
Supplementary information .....:	--

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 902 – 928 MHz.

Test setup



Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

Result

Frequency (MHz)	*Bandwidth*	*Graph(s) – Hopping*	*Measured values*	*Limit*	*Results*
915,20	100 kHz	G23187918 G23187919	F_L: 915,0105 MHz	901,95 MHz	Complies
927,80	100 kHz	G23187916 G23187917	F_H: 927,9981 MHz	928,05 MHz	Complies

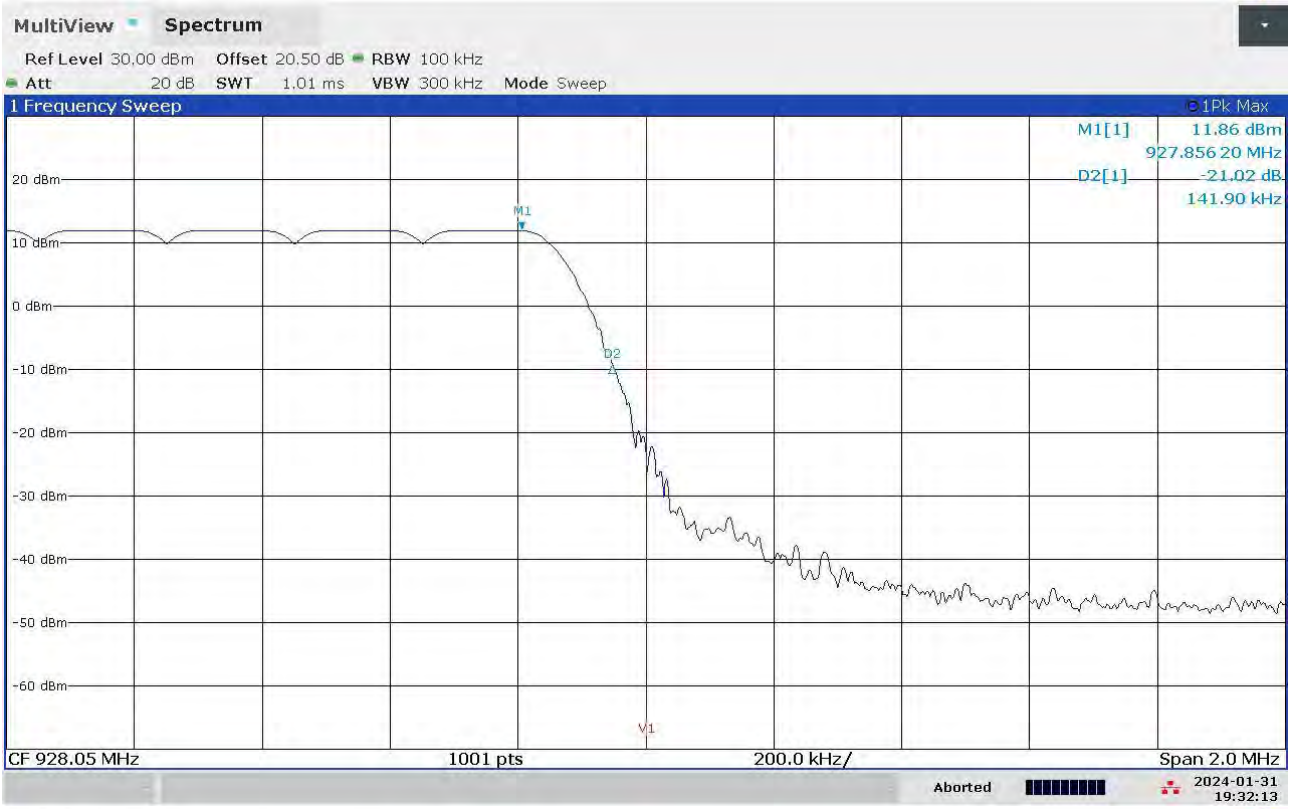
Remarks: acceptable limits are the operating band ± RBW/2

Frequency (MHz)	*Bandwidth*	*Graph(s) – No hopping*	*Measured values*	*Limit*	*Results*
915,20	100 kHz	G23187934 G23187935	F_L: 915,0057 MHz	901,95 MHz	Complies
927,80	100 kHz	G23187931 G23187932	F_H: 927,9990 MHz	928,05 MHz	Complies

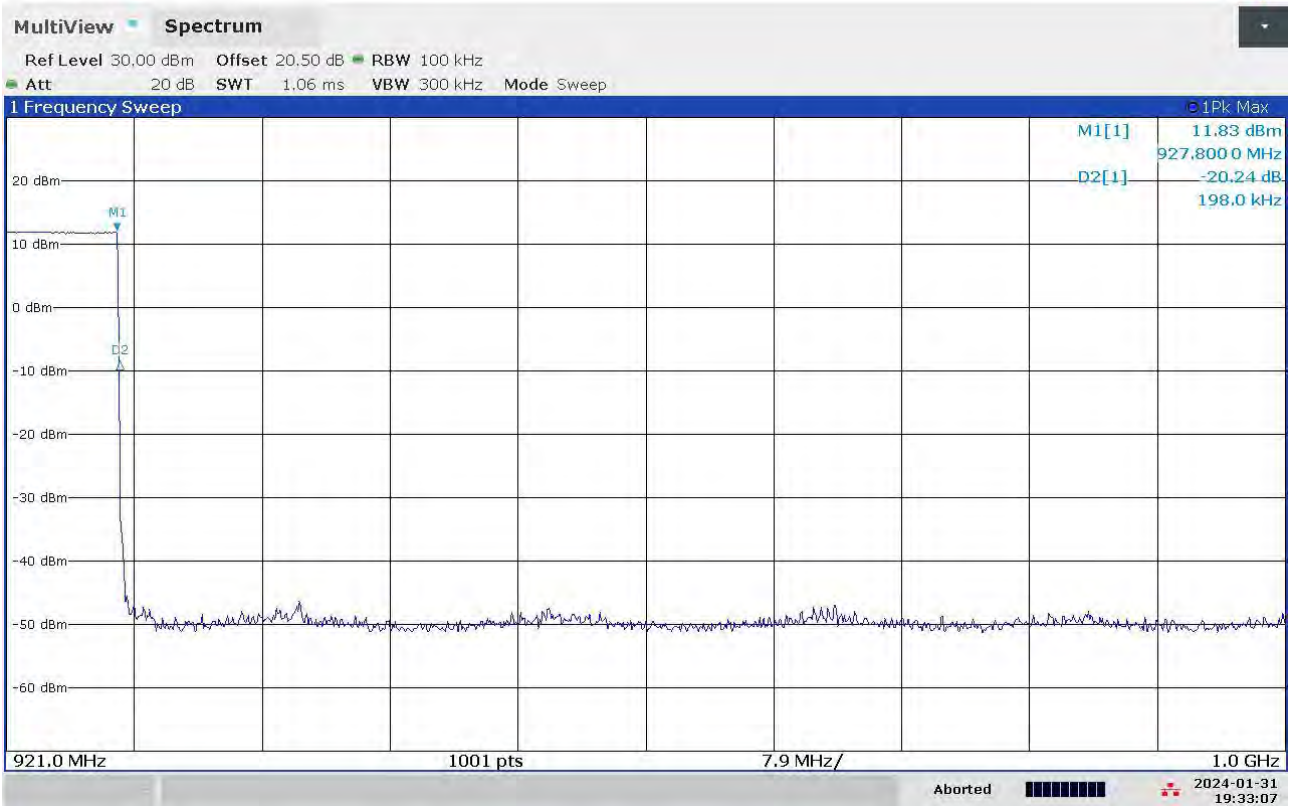
Remarks: acceptable limits are the operating band ± RBW/2

Graphs

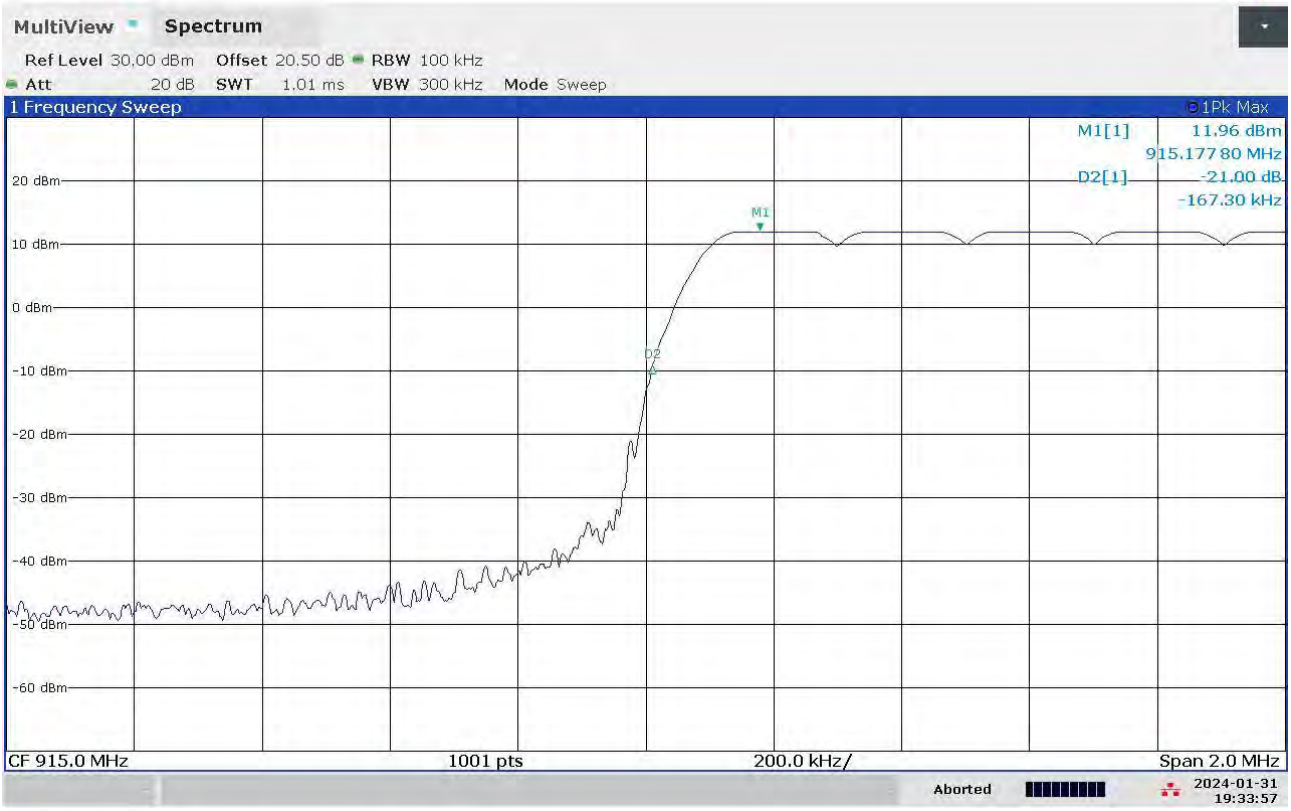
Gandini 23187916



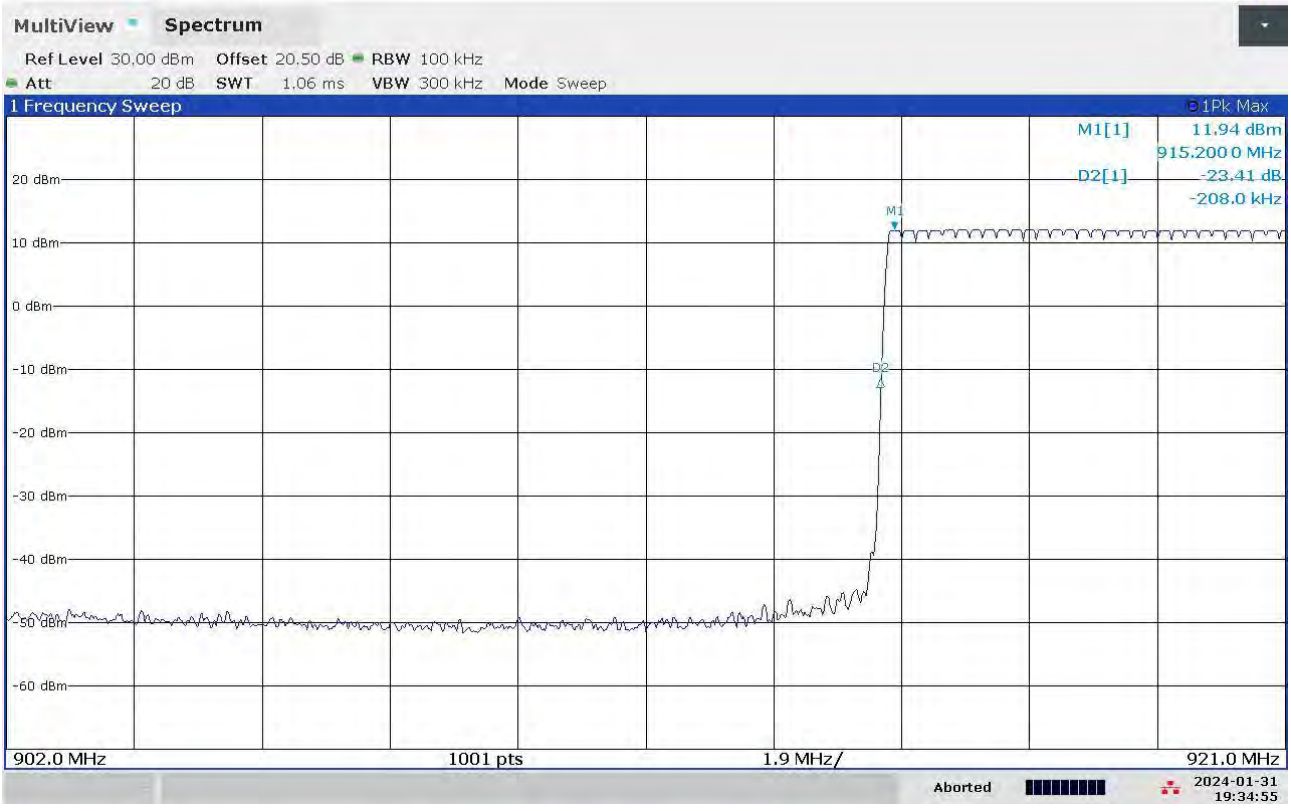
Gandini 23187917



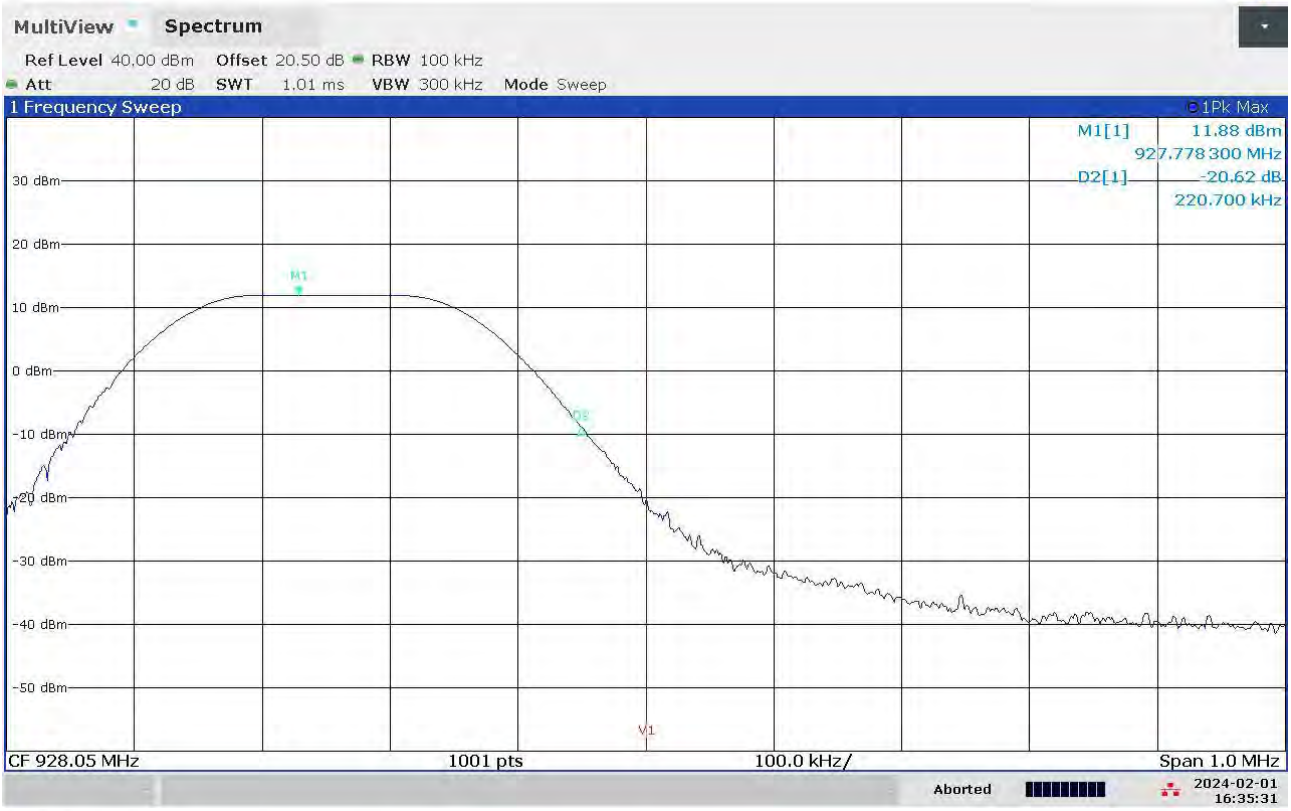
Gandini 23187918



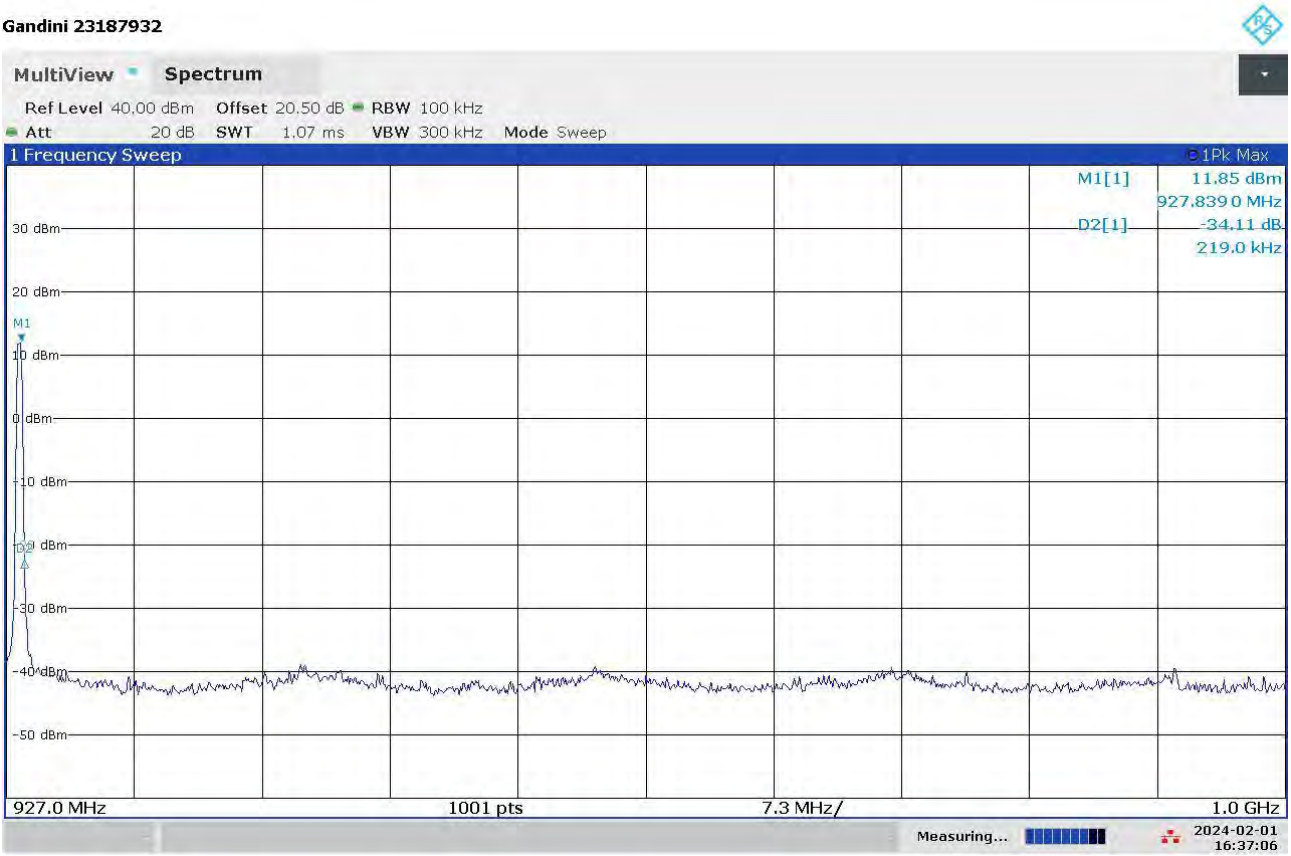
Gandini 23187919



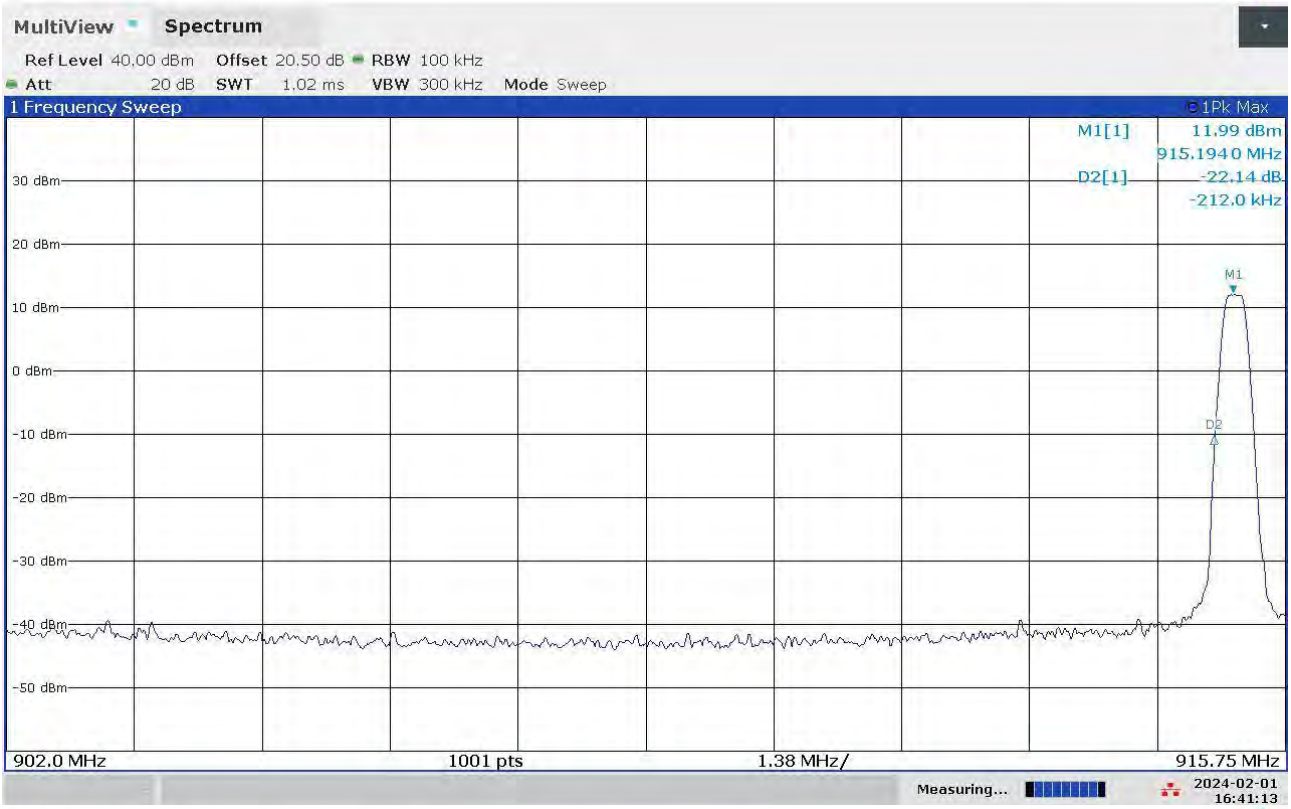
Gandini 23187931



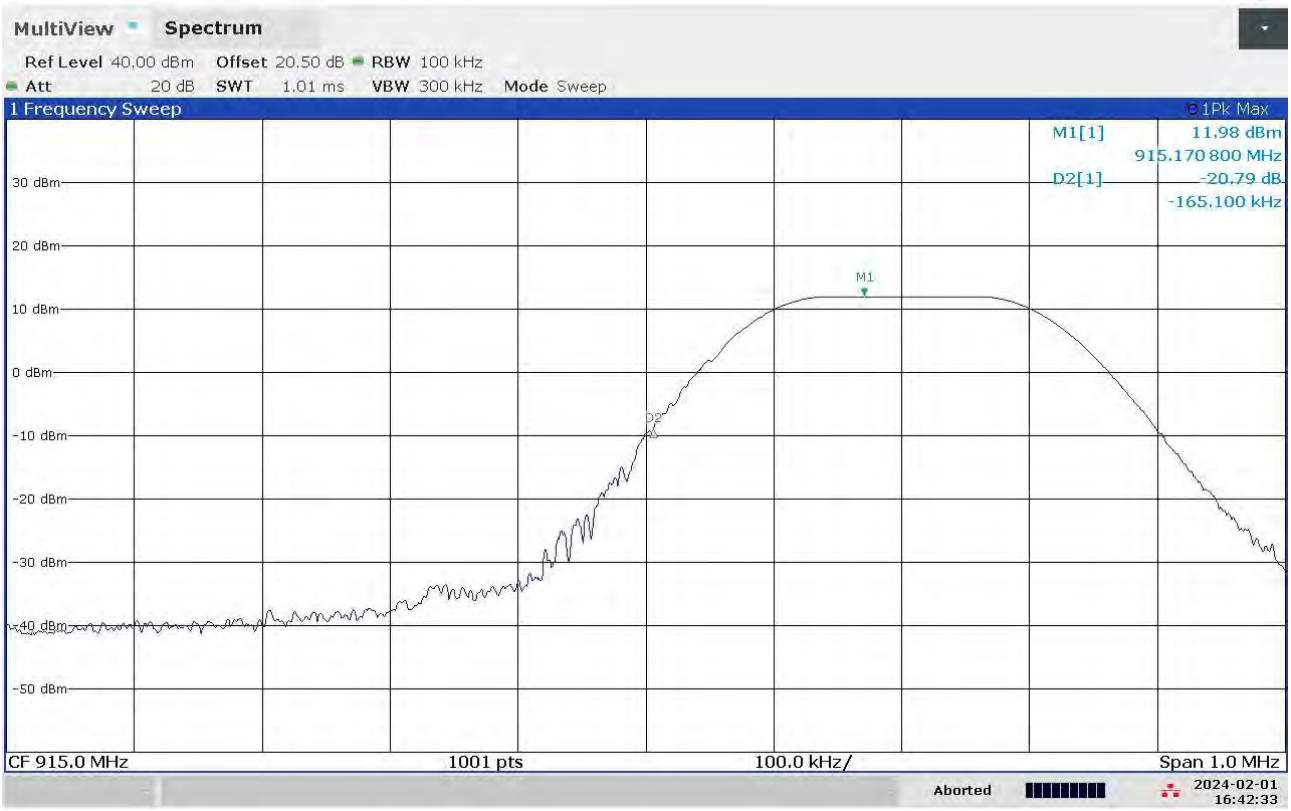
Gandini 23187932



Gandini 23187934



Gandini 23187935



9.9 Peak Output Power

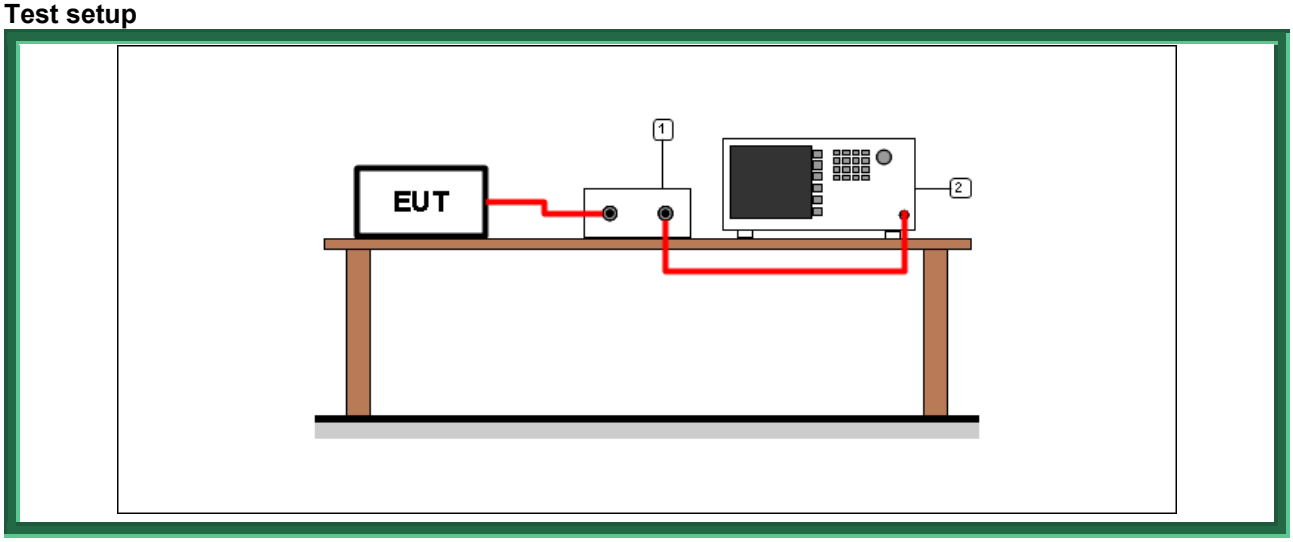
Tested by .....:	G. Gandini
Test date .....:	31.01.2024
Test location (stand) .....:	Laboratory
Reference standards.....:	FCC Rules and Regulation; Titles 47 Part. 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 2.2 ANSI C63.10 cl. 7.8.5
Supplementary test set-up description.....:	--
Supplementary information .....:	--

Acceptance limits

For frequency hopping systems operating in the 2400–2483,5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483,5 MHz band: 0,125 watts.

For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and 0,25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.

Test setup



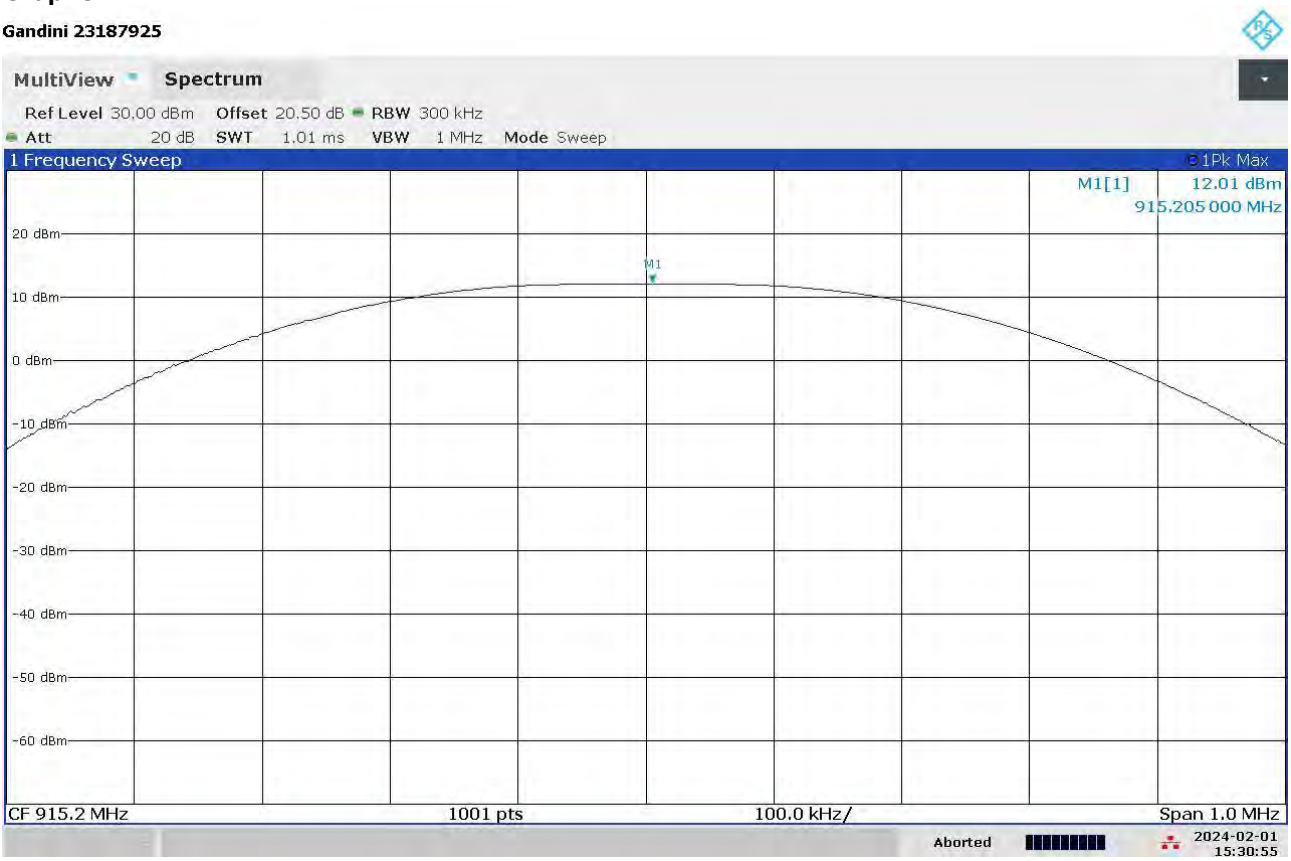
Test setup PR002_01							
Nr.	*Id. Number*	*Manufacturer*	*Model*	*Serial number*	*Description*	*Last calibration date*	*Calibration expiration*
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2023	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

Result

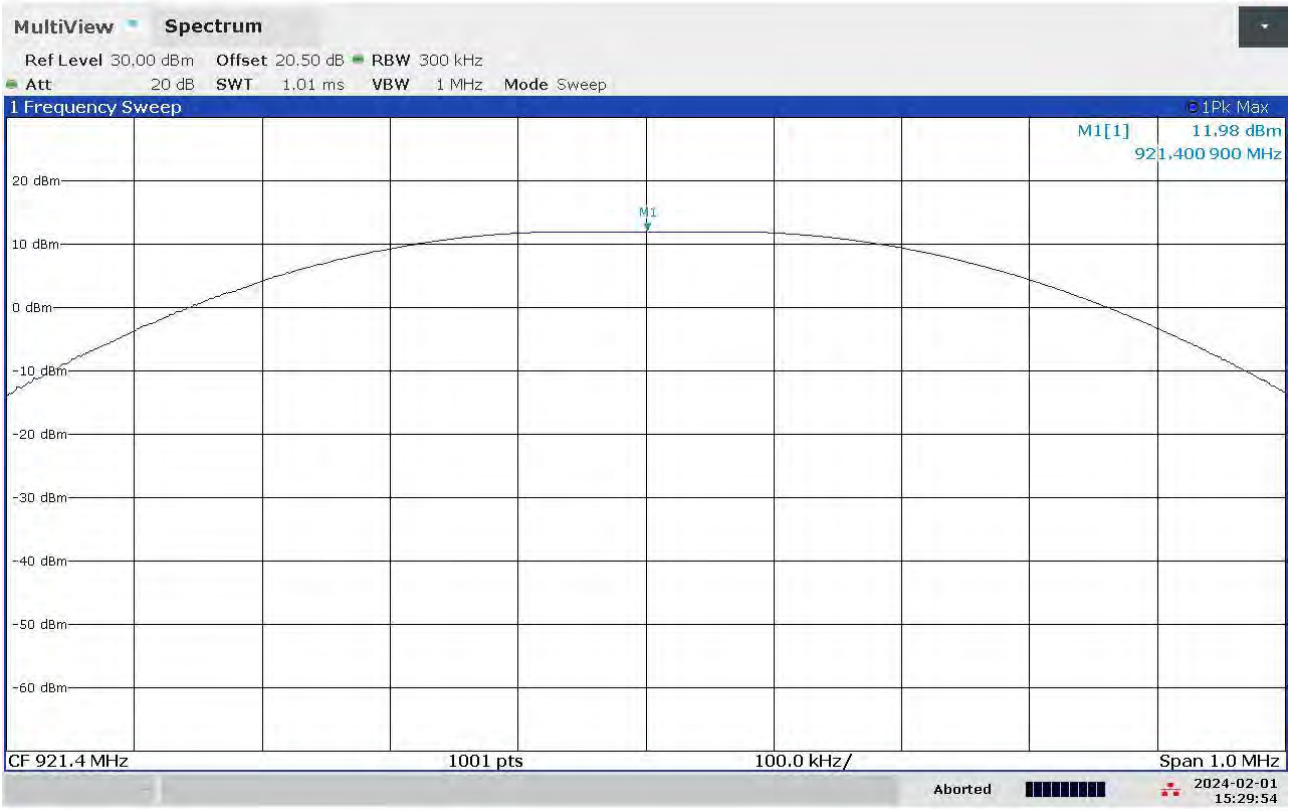
Frequency (MHz)	*Graphs*	*Peak Output Power (dBm)*	*Peak Output Power (mW)*	*Limit (mW)*
915,20	G23187925	12,01	15,89	1000
921,40	G23187926	11,98	15,78	1000
927,80	G23187933	11,87	15,38	1000

Graphs

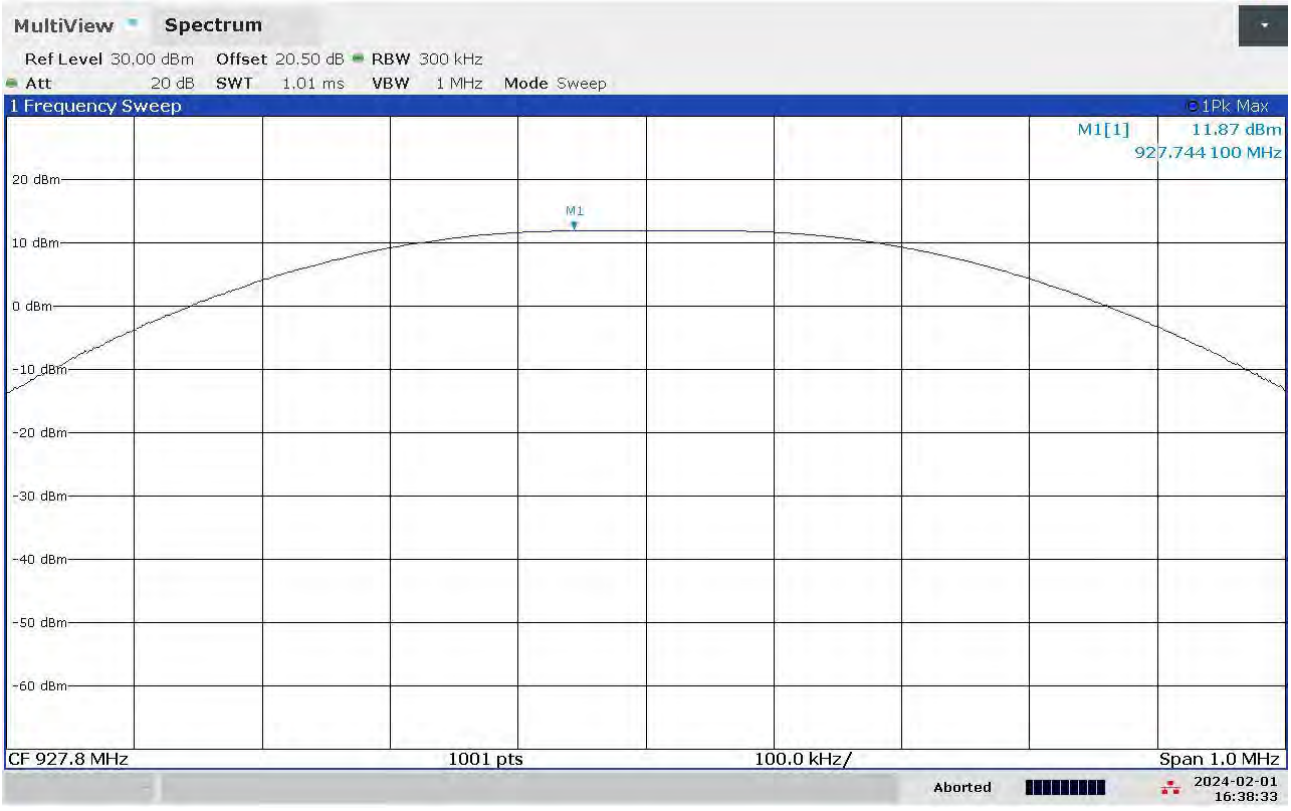
Gandini 23187925



Gandini 23187926



Gandini 23187933



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	2,9 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,1 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,5 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	3,7 dB	1
Radiated Emission LAS 0,15-30 MHz	PE003_01	1,9 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30 MHz	PE004_01	4,1 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_02	4,6 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_03	4,5 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_04	4,7 dB	1
Human Exposure to electromagnetic fields	PE005_01	14,2 %	1
Harmonics	PE006_01	10 mA + 2,9 %	1
Flicker	PE007_01	4,20 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,25 dB 0,89 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,19 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	6,25 % 18,8 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,25 % 1,88 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,22 % 0,22 V a 10V	1

Attachment 1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,1 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	5,1 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 Oscillotary immunity test	PE113_01		2
Rev_23_01 date 20/03/2023			

Note 1:

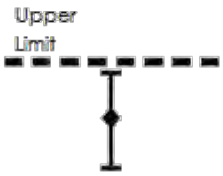
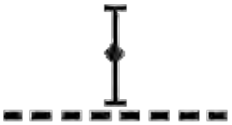
The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p = 95%

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

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

Quality manual references – Internal procedure

Internal Procedure PM001 rev. 4.0 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 10.0 (Quality Manual)	Measurement uncertainty calculation