

TEST REPORT

Nr. R24078601

Federal Communication Commission (FCC)

Report Reference No.	R24078601
Date of issue:	12.09.2024
Total number pages:	73
Customer name	Elca S.r.l.
Address	Via del Commercio, 7/B – 36065 Mussolente (VI) – Italy
Test specification:	
Standard(s)	FCC Rules & Regulations, Title 47:2023 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 249
Non-standard test method	N/A
Test Report Form No.	15-249_DEKRA
Test Report Form(s) Originator ...	DEKRA Testing and Certification S.r.l.
Master TRF	2024-09
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 DEKRA Testing and Certification S.r.l.	
(*) Test item description	Receiving unit AR MAGO-FLEXI.A-915: component fixed stably to the Machine (base station) that constitutes an interface between the Radio Remote Control and the other parts of the machine
(*) Trademark	Elca
(*) Manufacturer	Elca S.r.l.
(*) Model / Type reference	AR MAGO-FLEXI.A-915
(*) FCC ID	2ABS7-ARMAFLA915
(*) Rating(s)	48/55/120/230 V ~ 50/60 Hz single-phase
Report	
Tested by (name + signature)	C. Panozzo
Approved by (name + signature)	F. Marenda

(*) information provided by the customer

1 Summary

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2 Reference standard(s)	
FCC Rules and Regulation Title 47 part 15:2023	--
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
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	

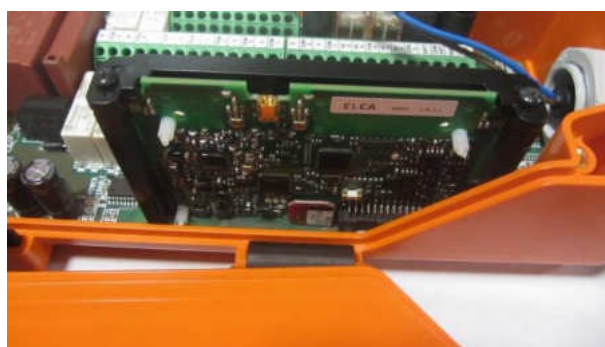
Revision index	Date	Change history
1.0	12.09.2024	--

Testing and sampling:	
Date of receipt of test item	07.05.2024
Testing start date	02.09.2024
Testing end date	09.09.2024
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 P240438
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	Receiving unit AR MAGO-FLEXI.A-915: component fixed stably to the Machine (base station) that constitutes an interface between the Radio Remote Control and the other parts of the machine						
Model Number	AR MAGO-FLEXI.A-915						
FCC ID	2ABS7-ARMAFLA915						
Serial Number	--						
Brand name	Elca						
Frequency band	902 – 928 MHz						
Nominal frequencies	FL: 915,050 MHz		FM: 921,050 MHz		FH: 927,750 MHz		
Test power supply		Voltage and Frequency	Reference poles				
			N	L1	L2	L3	PE
	☒	AC: 120 V, 60 Hz	☒	☒	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☐	DC:					☐
Software release	WM32EL 1.0.I.I						
Type of equipment	☒ Transmitter unit ☒ Receiver unit						
Type of station	☐ Portable station ☒ Mobile station						
Test arrangements of EUT	<i>Intended operational arrangement(s) of EUT</i>		<i>Test arrangement (see basic standard)</i>				
	☐ 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 47:2023			
Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 249			
Clause	Requirement – Test case	Basic standard	Verdict
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 emission	ANSI C63.10	P
Part 15.209 and 15.249	Peak Output Power	ANSI C63.10	P
Part 15.215	20 dB Bandwidth	ANSI C63.10	P
Part 15.249	Band edge	ANSI C63.10	P

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. Environmental conditions have been monitored with the following instrument.																			
	<table><tr><td><i>Id. Number</i></td><td><i>Manufacturer</i></td><td><i>Model</i></td><td><i>Serial number</i></td><td><i>Description</i></td><td><i>Last calibration date</i></td><td><i>Calibration expiration</i></td></tr><tr><td>CMC S302</td><td>Testo</td><td>175H1</td><td>40370182610</td><td>Data Logger</td><td>May 2024</td><td>May 2025</td></tr></table>							<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial number</i>	<i>Description</i>	<i>Last calibration date</i>	<i>Calibration expiration</i>	CMC S302	Testo	175H1	40370182610	Data Logger	May 2024
<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Serial number</i>	<i>Description</i>	<i>Last calibration date</i>	<i>Calibration expiration</i>														
CMC S302	Testo	175H1	40370182610	Data Logger	May 2024	May 2025														
Measurement uncertainties :	Attachment 1																			

9 Test results

9.1 Antenna requirements

Tested by	C. Panozzo	
Test date	02.09.2024	
Basic standard(s)	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	0 dBi	
External R.F. power amplifier	Not Present	

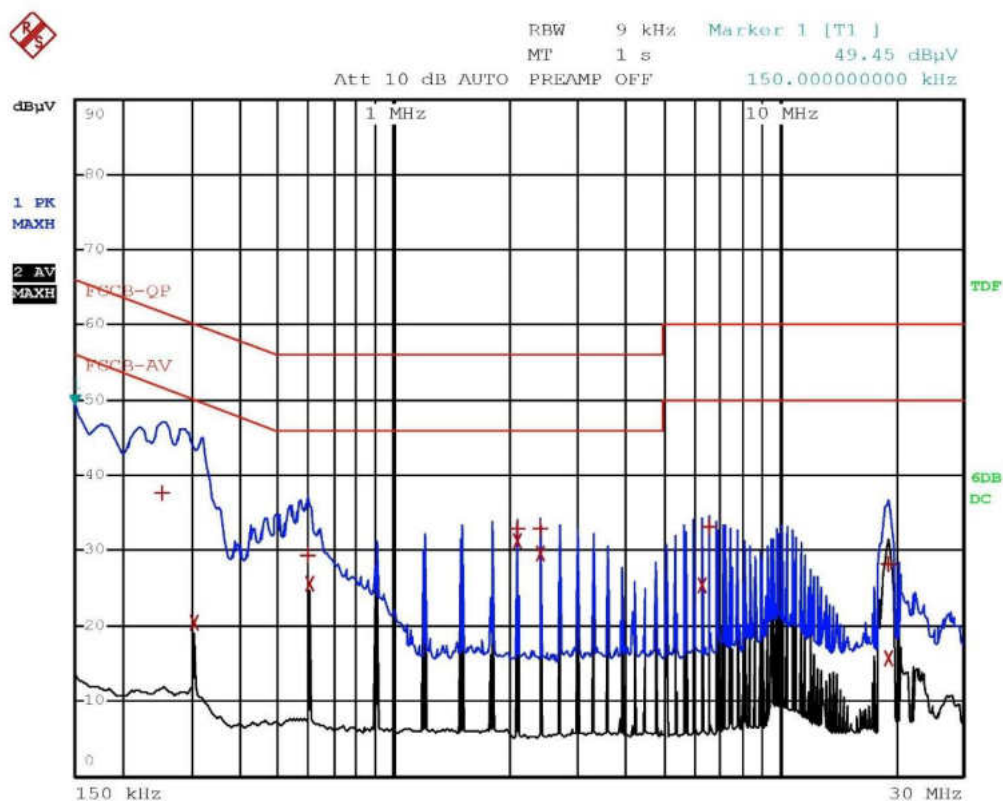
9.2 Conducted emission

Tested by	C. Panozzo	
Test date	09.09.2024	
Test location (stand).....	Shielded chamber (CMC A001)	
Basic standard(s)	ANSI C63.10 cl. 6.2	
Product standard(s).....	FCC Rules and Regulation; Titles 47 Part. 15.207	
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 μ H/50 Ω LISN
	☐	Other:

Acceptance limits

Frequency range (MHz)	$dB(\mu V)$ Quasi-peak	$dB(\mu V)$ Average
0,15 to 0,50	66 to 56	56 to 46
0,5 to 5	56	46
5 to 30	60	50

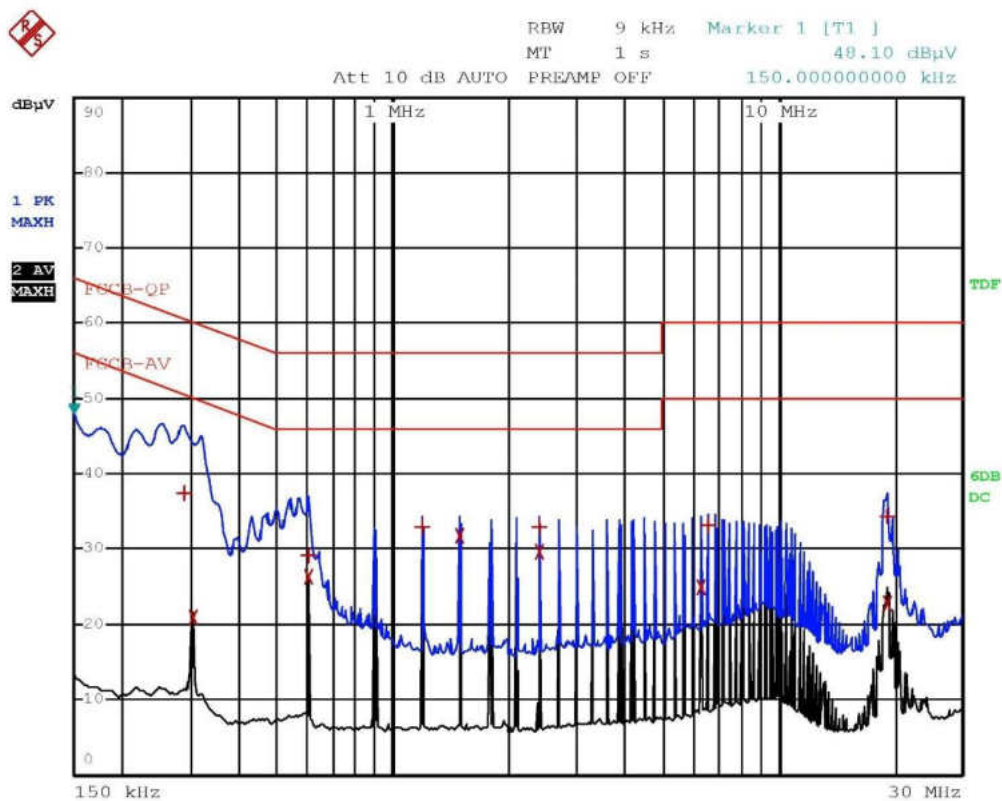
Graphs



PAozzo 24078643 Line N 120V In Funzione TX/RX f min

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCB-QP		
Trace2:	FCCB-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	254 kHz	37.60	-24.01
2 Average	302 kHz	20.36	-29.82
1 Quasi Peak	598 kHz	29.52	-26.47
2 Average	602 kHz	25.71	-20.28
1 Quasi Peak	2.102 MHz	33.03	-22.96
2 Average	2.102 MHz	31.41	-14.58
1 Quasi Peak	2.402 MHz	33.04	-22.95
2 Average	2.402 MHz	29.62	-16.37
2 Average	6.306 MHz	25.48	-24.51
1 Quasi Peak	6.606 MHz	33.18	-26.81
1 Quasi Peak	19.23 MHz	28.31	-31.68
2 Average	19.23 MHz	15.73	-34.26

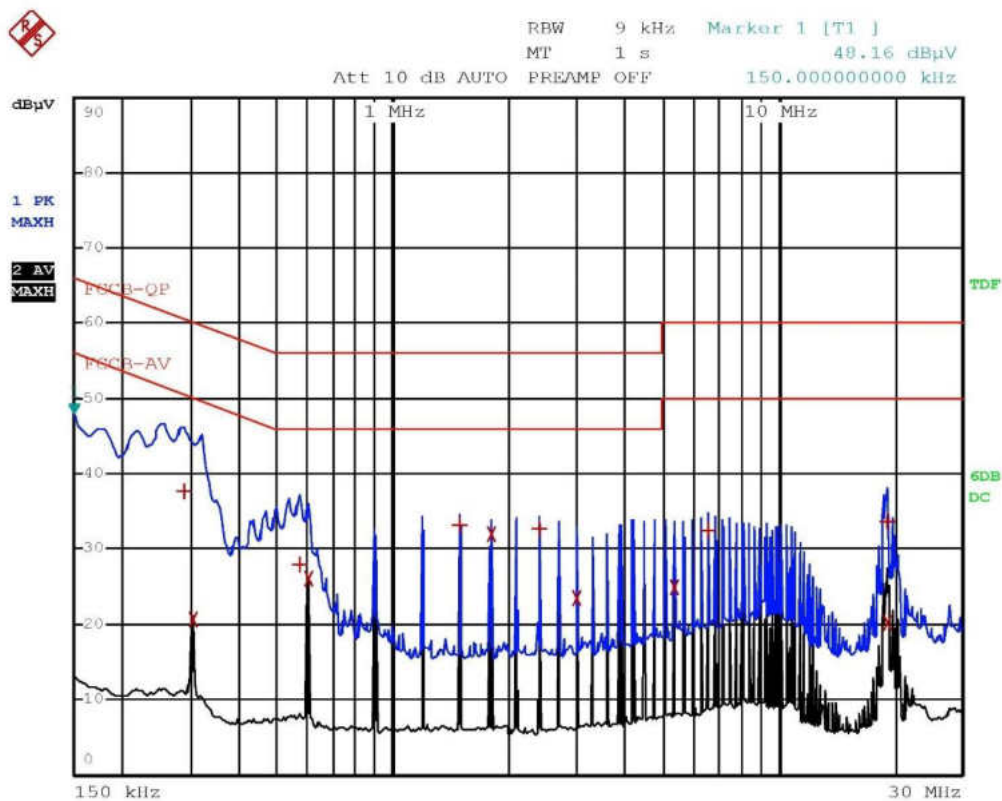
PAnozzo 24078643 Line N 120V In Funzione TX/RX f min



PAozzo 24078644 Line L 120V In Funzione TX/RX f min

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCB-QP		
Trace2:	FCCB-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	286 kHz	37.45	-23.18
2 Average	302 kHz	19.89	-30.29
1 Quasi Peak	602 kHz	28.74	-27.25
2 Average	602 kHz	25.65	-20.34
1 Quasi Peak	1.198 MHz	31.93	-24.06
2 Average	1.498 MHz	30.58	-15.41
1 Quasi Peak	2.402 MHz	33.03	-22.96
2 Average	2.402 MHz	31.03	-14.96
2 Average	6.306 MHz	27.14	-22.85
1 Quasi Peak	6.606 MHz	33.20	-26.79
2 Average	19.19 MHz	21.32	-28.67
1 Quasi Peak	19.214 MHz	35.61	-24.38

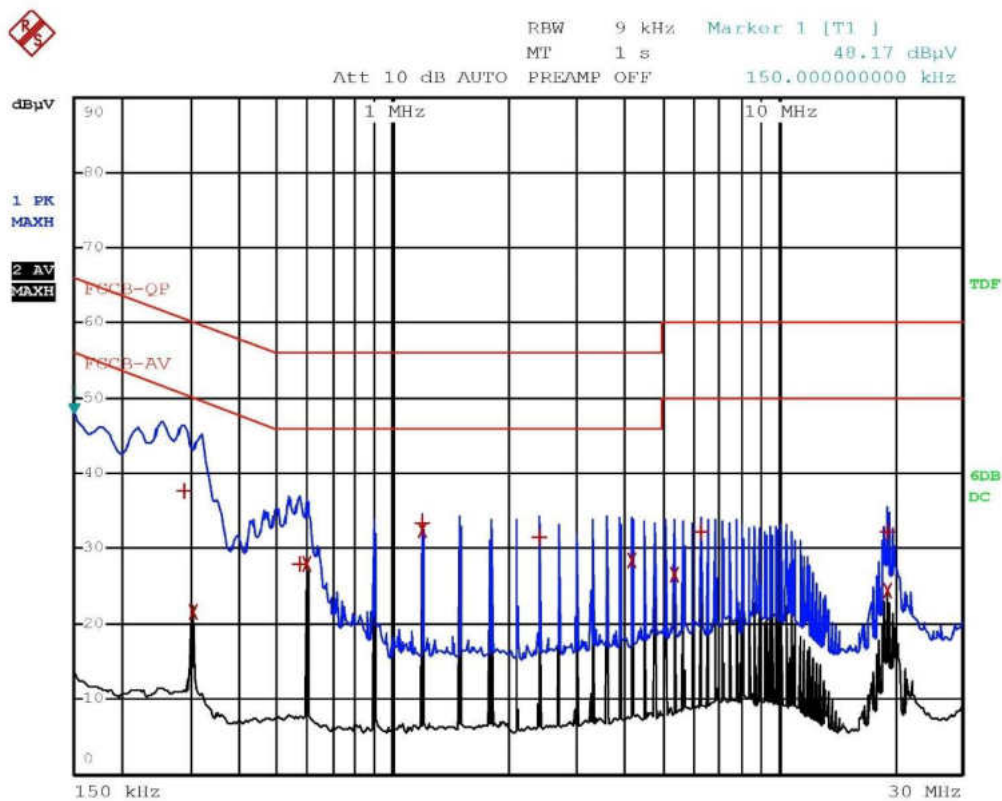
PAnozzo 24078644 Line L 120V In Funzione TX/RX f min



PAozzo 24078645 Line L 120V In Funzione TX/RX f med

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCCB-QP			
Trace2:	FCCB-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Quasi Peak	286 kHz	37.57	-23.06	
2 Average	302 kHz	20.76	-29.42	
1 Quasi Peak	574 kHz	28.02	-27.97	
2 Average	602 kHz	26.21	-19.78	
1 Quasi Peak	1.498 MHz	33.18	-22.81	
2 Average	1.798 MHz	32.07	-13.92	
1 Quasi Peak	2.402 MHz	32.78	-23.21	
2 Average	3.002 MHz	23.49	-22.50	
2 Average	5.402 MHz	24.91	-25.09	
1 Quasi Peak	6.606 MHz	32.55	-27.44	
1 Quasi Peak	19.214 MHz	33.55	-26.44	
2 Average	19.218 MHz	20.23	-29.76	

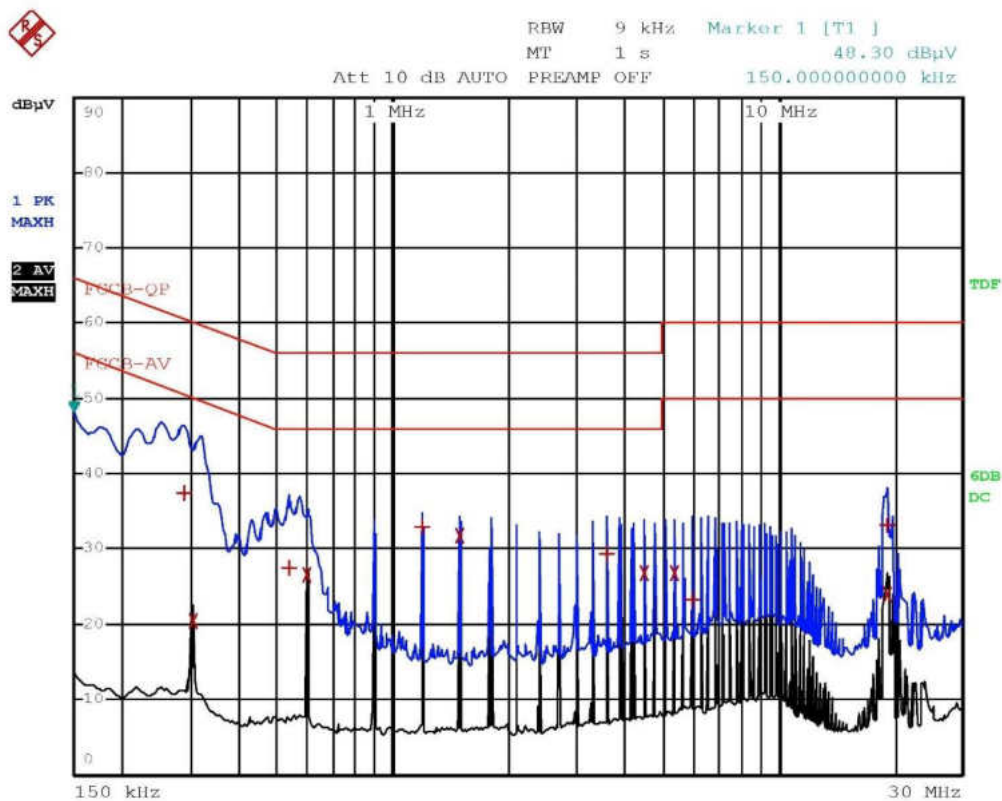
PAnozzo 24078645 Line L 120V In Funzione TX/RX f med



PAnozzo 24078646 Line N 120V In Funzione TX/RX f med

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCB-QP		
Trace2:	FCCB-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	286 kHz	37.66	-22.97
2 Average	302 kHz	21.65	-28.53
1 Quasi Peak	574 kHz	28.08	-27.91
2 Average	598 kHz	28.06	-17.93
1 Quasi Peak	1.198 MHz	33.32	-22.67
2 Average	1.198 MHz	32.44	-13.56
1 Quasi Peak	2.402 MHz	31.45	-24.54
2 Average	4.194 MHz	28.51	-17.48
2 Average	5.398 MHz	26.67	-23.32
1 Quasi Peak	6.29 MHz	32.29	-27.70
1 Quasi Peak	19.182 MHz	32.20	-27.79
2 Average	19.19 MHz	24.40	-25.60

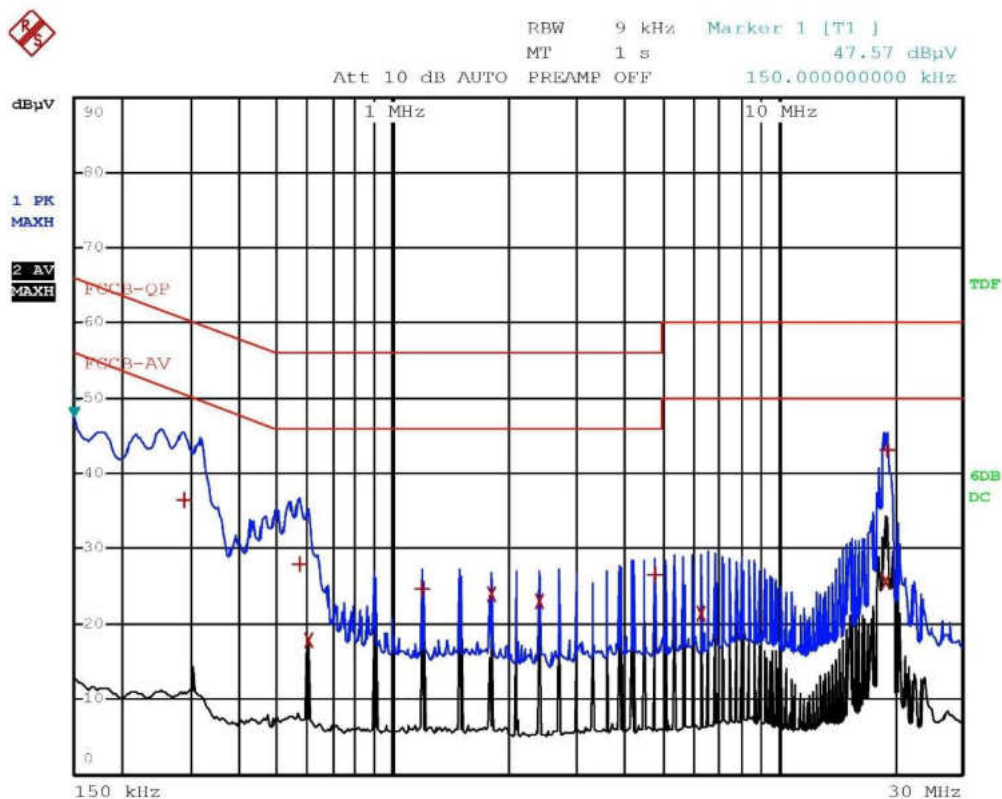
PAnozzo 24078646 Line N 120V In Funzione TX/RX f med



PAnozzo 24078647 Line N 120V In Funzione TX/RX f MAX

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCCB-QP			
Trace2:	FCCB-AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Quasi Peak	286 kHz	37.55	-23.08	
2 Average	302 kHz	20.36	-29.82	
1 Quasi Peak	538 kHz	27.55	-28.44	
2 Average	598 kHz	26.63	-19.36	
1 Quasi Peak	1.198 MHz	32.87	-23.12	
2 Average	1.498 MHz	31.78	-14.21	
1 Quasi Peak	3.594 MHz	29.45	-26.54	
2 Average	4.498 MHz	26.91	-19.08	
2 Average	5.398 MHz	26.81	-23.18	
1 Quasi Peak	5.99 MHz	23.22	-36.78	
1 Quasi Peak	19.206 MHz	33.10	-26.90	
2 Average	19.218 MHz	23.95	-26.04	

PAnozzo 24078647 Line N 120V In Funzione TX/RX f MAX



PAnozzo 24078648 Line L 120V In Funzione TX/RX f MAX

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCCB-QP		
Trace2:	FCCB-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	286 kHz	36.48	-24.15
1 Quasi Peak	570 kHz	27.87	-28.12
2 Average	602 kHz	17.89	-28.10
1 Quasi Peak	1.198 MHz	24.56	-31.43
2 Average	1.798 MHz	24.07	-21.93
2 Average	2.402 MHz	22.92	-23.07
1 Quasi Peak	4.798 MHz	26.65	-29.34
2 Average	6.306 MHz	21.35	-28.64
2 Average	18.922 MHz	25.60	-24.39
1 Quasi Peak	19.21 MHz	43.04	-16.95

PAnozzo 24078648 Line L 120V In Funzione TX/RX f MAX

9.3 Radiated emissions and spurious emission

Tested by	C. Panozzo	
Test date	02.09.2024	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Basic standard(s)	ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Product standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.209 and 15.249 (a) and (d)	
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(μ V/m)]
0,009 to 0,490	300	$20\log(2400/F(\text{kHz}))$
0,490 to 1,705	30	$20\log(24000/F(\text{kHz}))$
1,705 to 30	30	$20\log(30)$
30 to 88	3	$20\log(100)^{**}$
88 to 216	3	$20\log(150)^{**}$
216 to 960	3	$20\log(200)^{**}$
Above 960	3	$20\log(500)$

****:** 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 ($f \geq 1000$ 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:

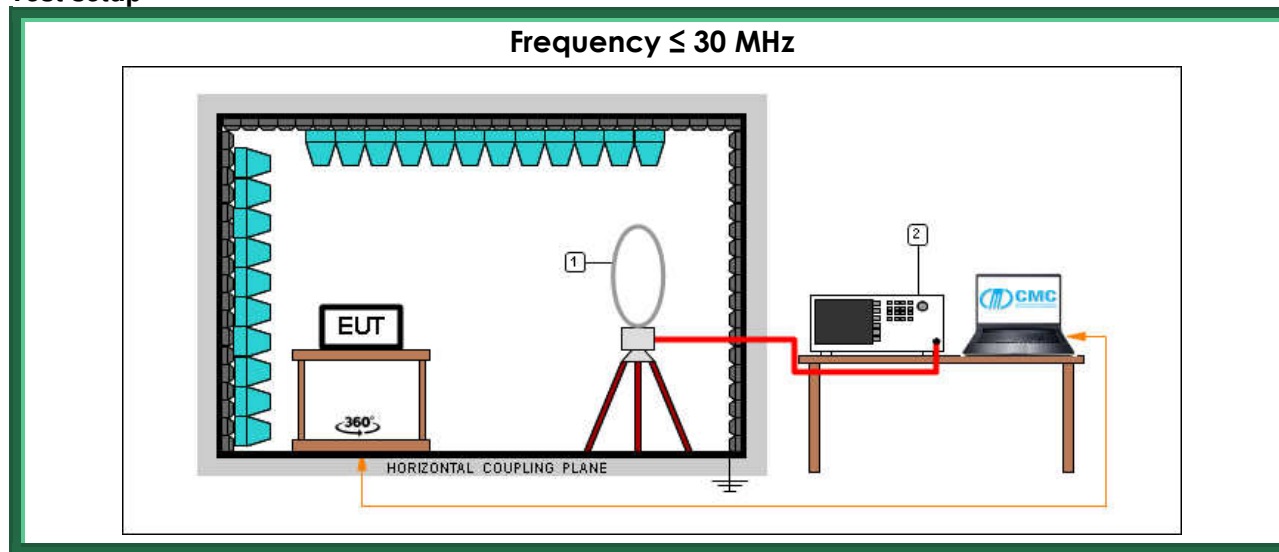
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775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

Field strength of harmonics: 500 $\mu\text{V/m}$ (54 dB($\mu\text{V/m}$)).

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

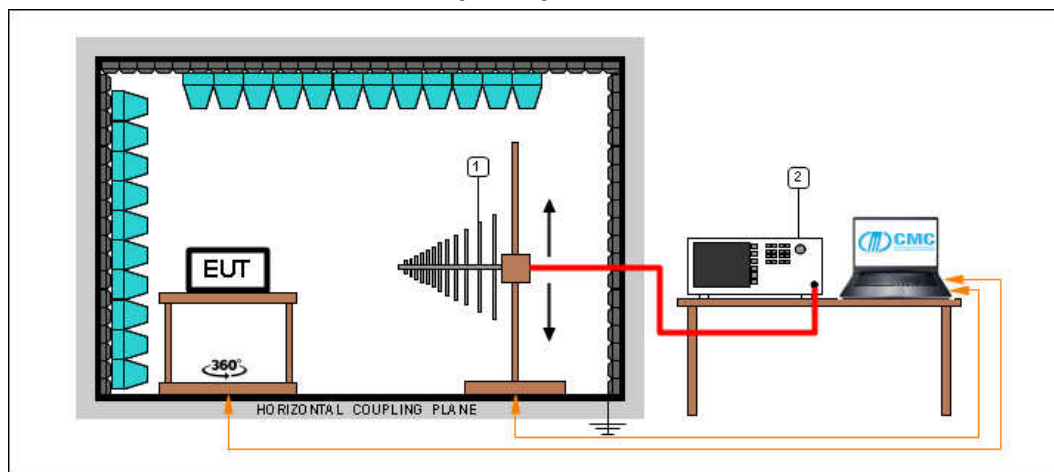
Test setup



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 2024	May 2025
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Frequency ≤ 1 GHz



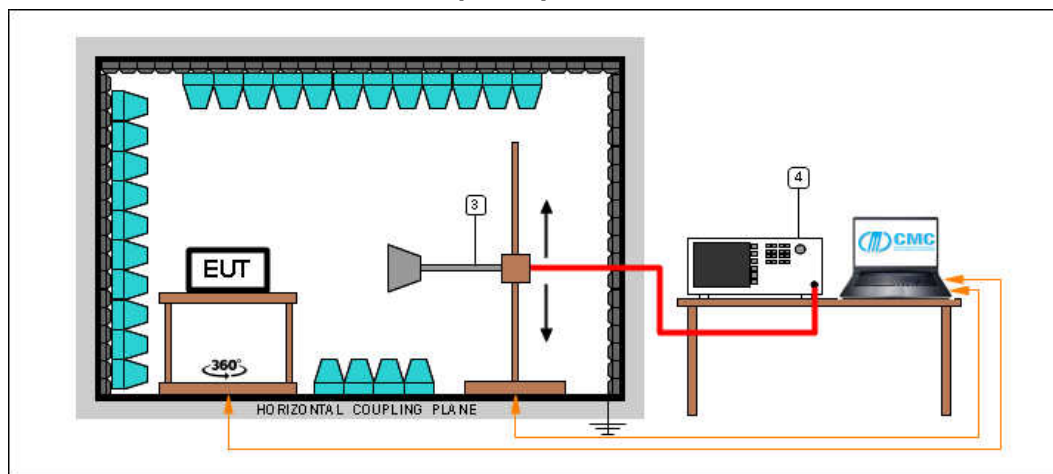
Test setup PE004_02

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
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

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
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

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
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

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
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Result

Transmission frequency (MHz)	EUT polarization	Antenna polarization	Frequency Range (MHz)	Graphs	Result
927,75	H	H	1000 – 10000	G24078601	P
927,75	H	V	1000 – 10000	G24078602	P
927,75	V	V	1000 – 10000	G24078603	P
927,75	V	H	1000 – 10000	G24078604	P
921,05	H	H	1000 – 10000	G24078605	P
921,05	H	V	1000 – 10000	G24078606	P
921,05	V	V	1000 – 10000	G24078607	P
921,05	V	H	1000 – 10000	G24078608	P
915,05	V	H	1000 – 10000	G24078609	P
915,05	V	V	1000 – 10000	G24078610	P
915,05	H	V	1000 – 10000	G24078611	P
915,05	H	H	1000 – 10000	G24078612	P
915,05	H	H	300 – 1000	G24078613	P
915,05	H	V	300 – 1000	G24078614	P
915,05	V	V	300 – 1000	G24078615	P
915,05	V	H	300 – 1000	G24078616	P
921,05	V	H	300 – 1000	G24078617	P
921,05	V	V	300 – 1000	G24078618	P
921,05	H	V	300 – 1000	G24078619	P
921,05	H	H	300 – 1000	G24078620	P
927,75	H	H	300 – 1000	G24078621	P
927,75	H	V	300 – 1000	G24078622	P
927,75	V	V	300 – 1000	G24078623	P
927,75	V	H	300 – 1000	G24078624	P

Transmission frequency (MHz)	EUT polarization	Antenna polarization	Frequency Range (MHz)	Graphs	Result
Worst case	H	H	30 – 300	G24078625	P
Worst case	H	V	30 – 300	G24078626	P
Worst case	V	V	30 – 300	G24078627	P
Worst case	V	H	30 – 300	G24078628	P
Worst case	Worst case	Loop	0,009 – 30	G24078629	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.

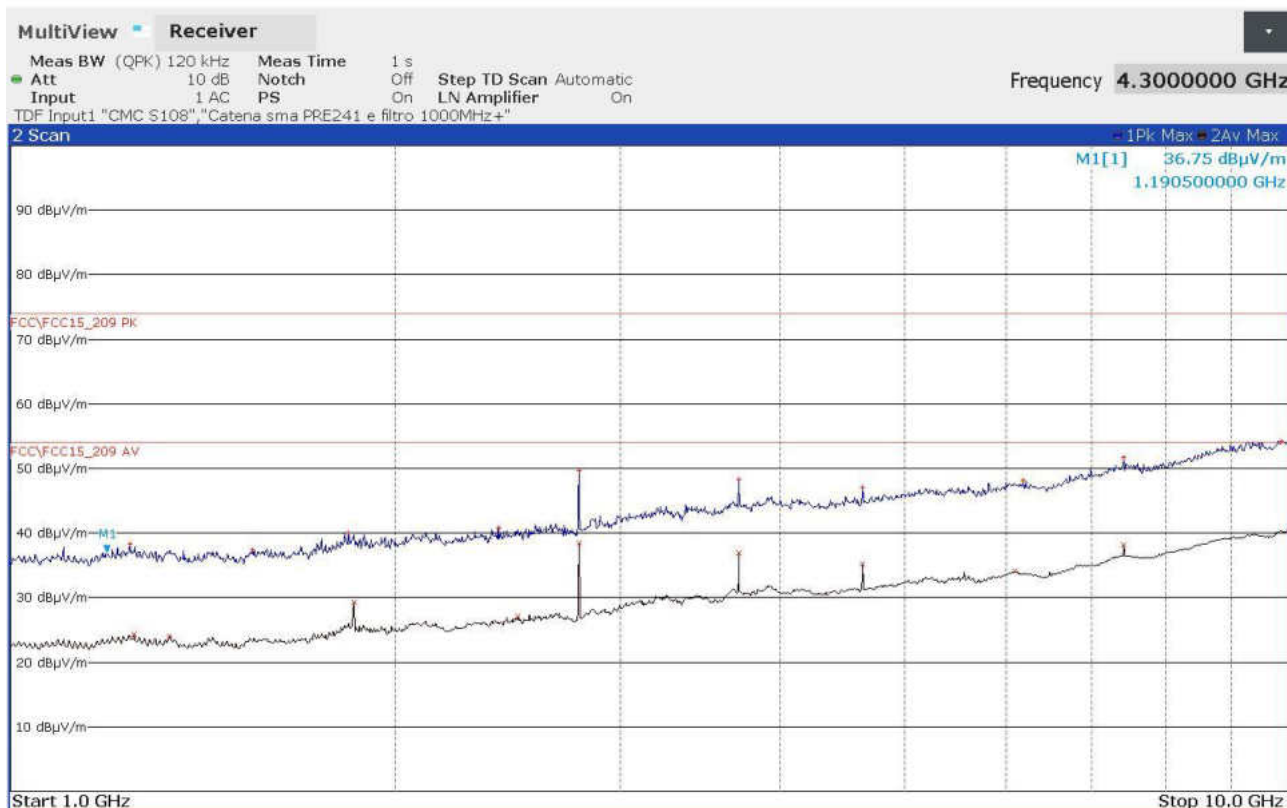
Graphs Legend

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

Panozzo 24078601

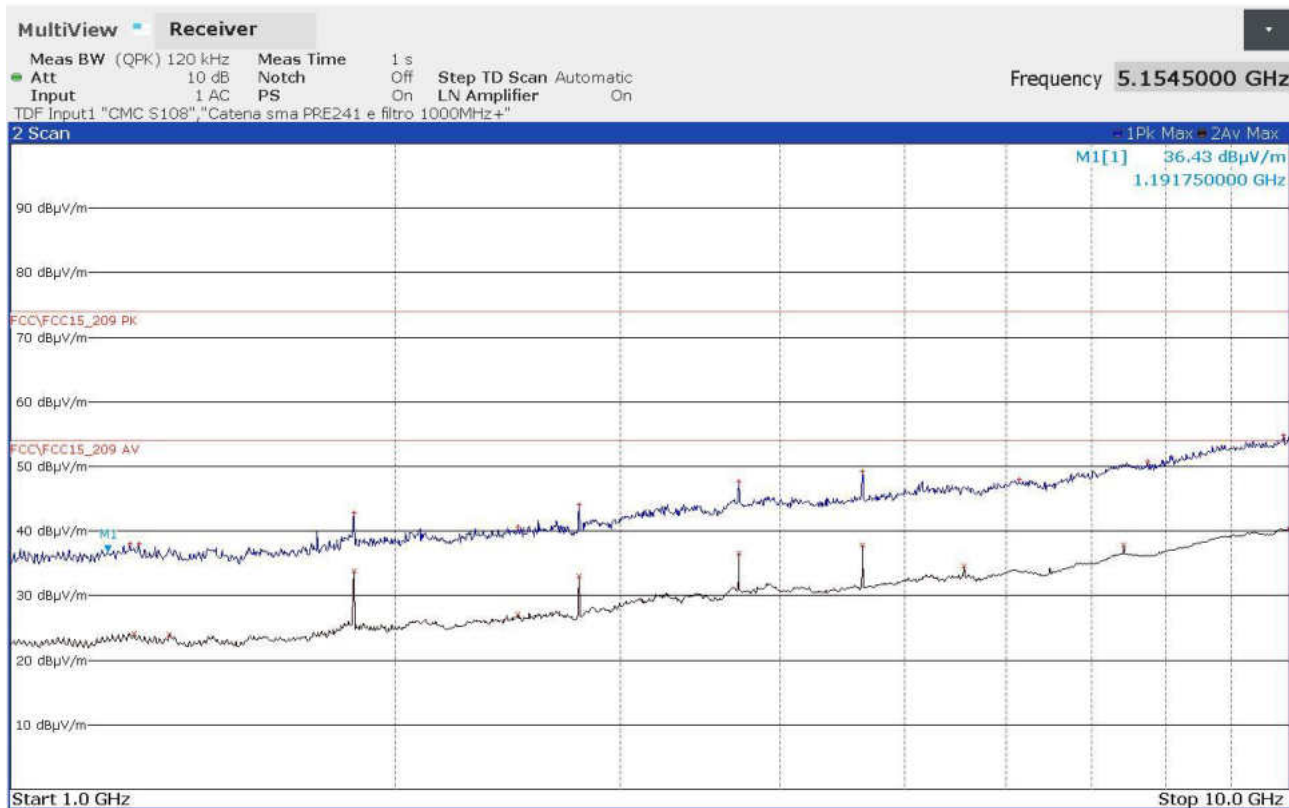


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1239500000	+38,25	-35,73	1248750000	+24,24	-29,74
1546000000	+37,43	-36,55	1332000000	+24,01	-29,97
1837250000	+40,07	-33,91	1855500000	+29,34	-24,64
2406500000	+40,81	-33,17	2494500000	+27,15	-26,83
2782750000	+49,74	-24,24	2783250000	+38,41	-15,57
3711000000	+48,27	-25,71	3711000000	+36,98	-17,00
4638750000	+47,05	-26,93	4638750000	+35,19	-18,79
6190750000	+48,19	-25,79	6099000000	+34,04	-19,94
7421750000	+51,73	-22,25	7422000000	+38,12	-15,86
9853750000	+54,26	-19,72	9994000000	+40,42	-13,56

24078601_2

Panozzo 24078602

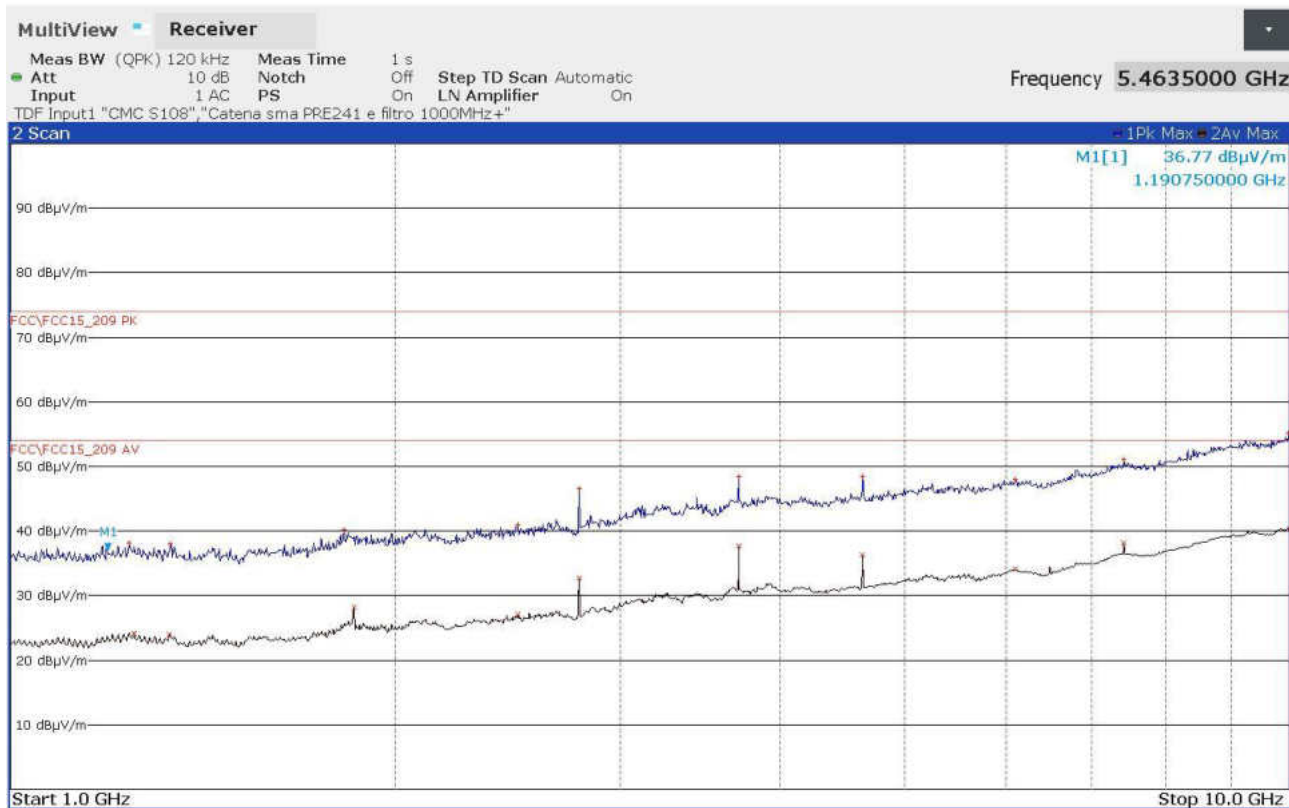


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1239500000	+38,02	-35,96	1249250000	+24,21	-29,77
1259750000	+37,99	-35,99	1331750000	+24,01	-29,97
1855500000	+42,87	-31,11	1855500000	+33,80	-20,18
2492500000	+40,69	-33,29	2494500000	+27,15	-26,83
2782750000	+44,07	-29,91	2783250000	+33,01	-20,97
3711000000	+47,70	-26,28	3711000000	+36,63	-17,35
4638750000	+49,28	-24,70	4638750000	+37,87	-16,11
6151000000	+47,90	-26,08	5566500000	+34,57	-19,41
7745750000	+50,80	-23,18	7422000000	+37,79	-16,19
9896750000	+54,87	-19,11	9994000000	+40,42	-13,56

24078602_2

Panozzo 24078603

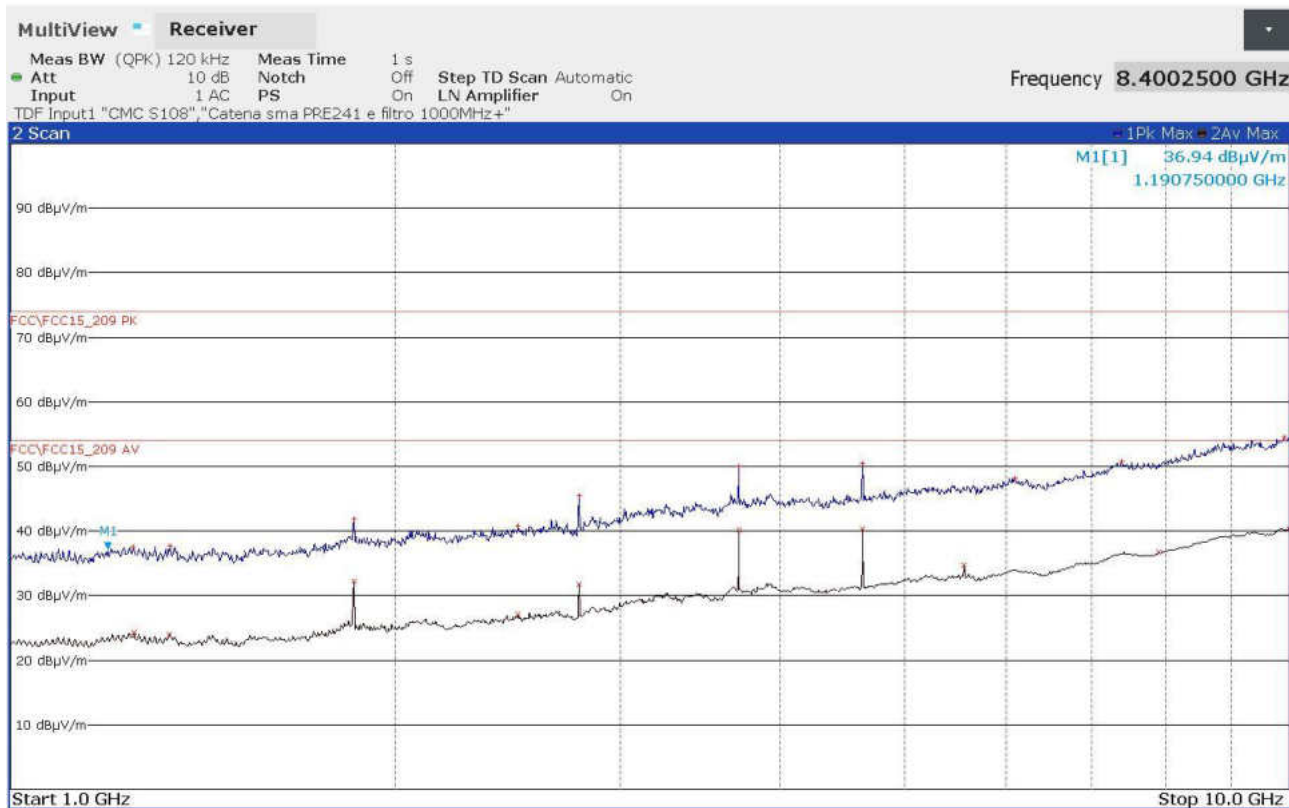


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1238000000	+38,11	-35,87	1249000000	+24,22	-29,76
1333750000	+38,00	-35,98	1331500000	+24,04	-29,94
1823000000	+40,22	-33,76	1855500000	+28,15	-25,83
2492750000	+41,00	-32,98	2494500000	+27,16	-26,82
2783000000	+46,60	-27,38	2783250000	+32,67	-21,31
3711000000	+48,51	-25,47	3711000000	+37,73	-16,25
4638750000	+48,43	-25,55	4638750000	+36,30	-17,68
6105500000	+48,04	-25,94	6099500000	+34,04	-19,94
7422000000	+51,03	-22,95	7422000000	+38,22	-15,76
9987250000	+55,09	-18,89	9994000000	+40,41	-13,57

24078603_2

Panozzo 24078604

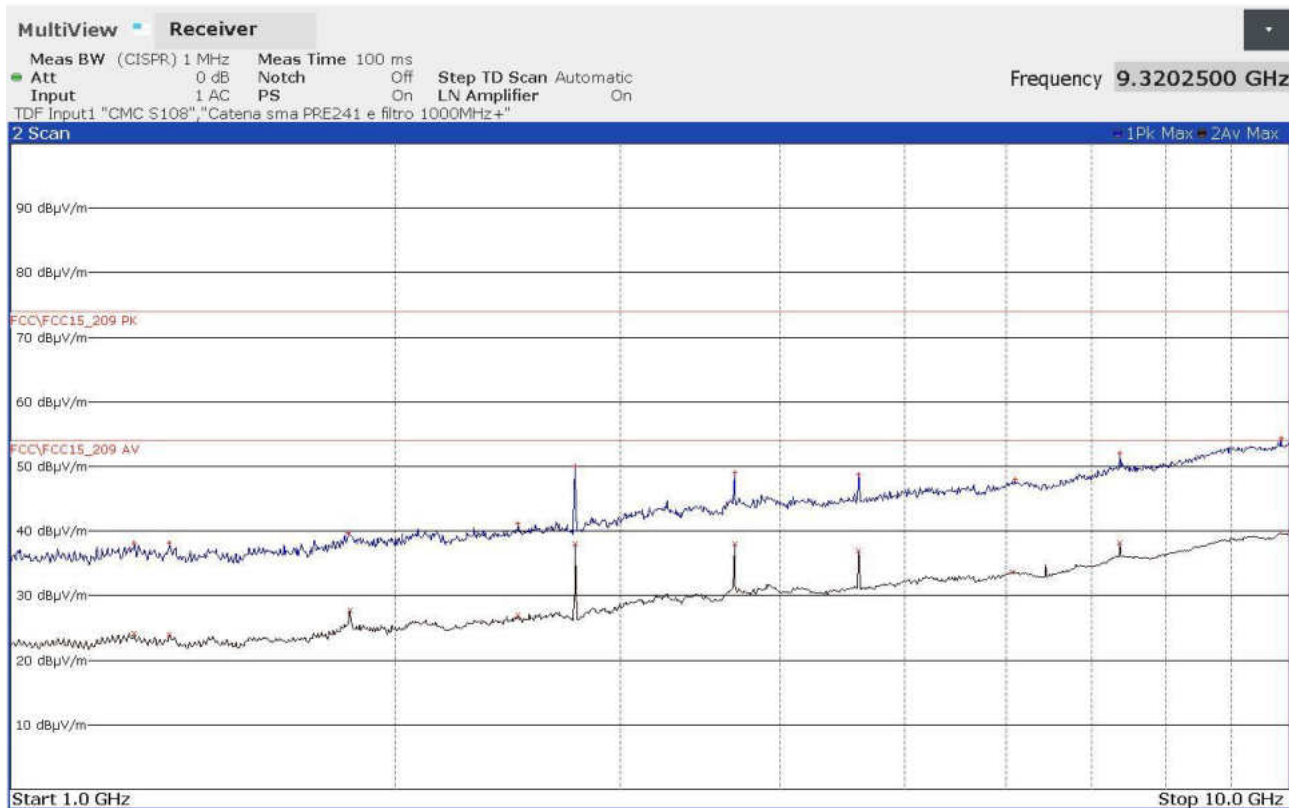


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1247500000	+37,49	-36,49	1249000000	+24,23	-29,75
1333000000	+37,65	-36,33	1332000000	+24,00	-29,98
1855500000	+41,97	-32,01	1855500000	+32,20	-21,78
2492500000	+40,84	-33,14	2494250000	+27,14	-26,84
2783250000	+45,43	-28,55	2783250000	+31,79	-22,19
3711000000	+49,99	-23,99	3711000000	+40,15	-13,83
4638750000	+50,39	-23,59	4638750000	+40,38	-13,60
6102500000	+48,17	-25,81	5566250000	+34,69	-19,29
7393500000	+50,78	-23,20	7900750000	+36,73	-17,25
9908000000	+54,51	-19,47	9993000000	+40,42	-13,56

24078604_2

Panozzo 24078605

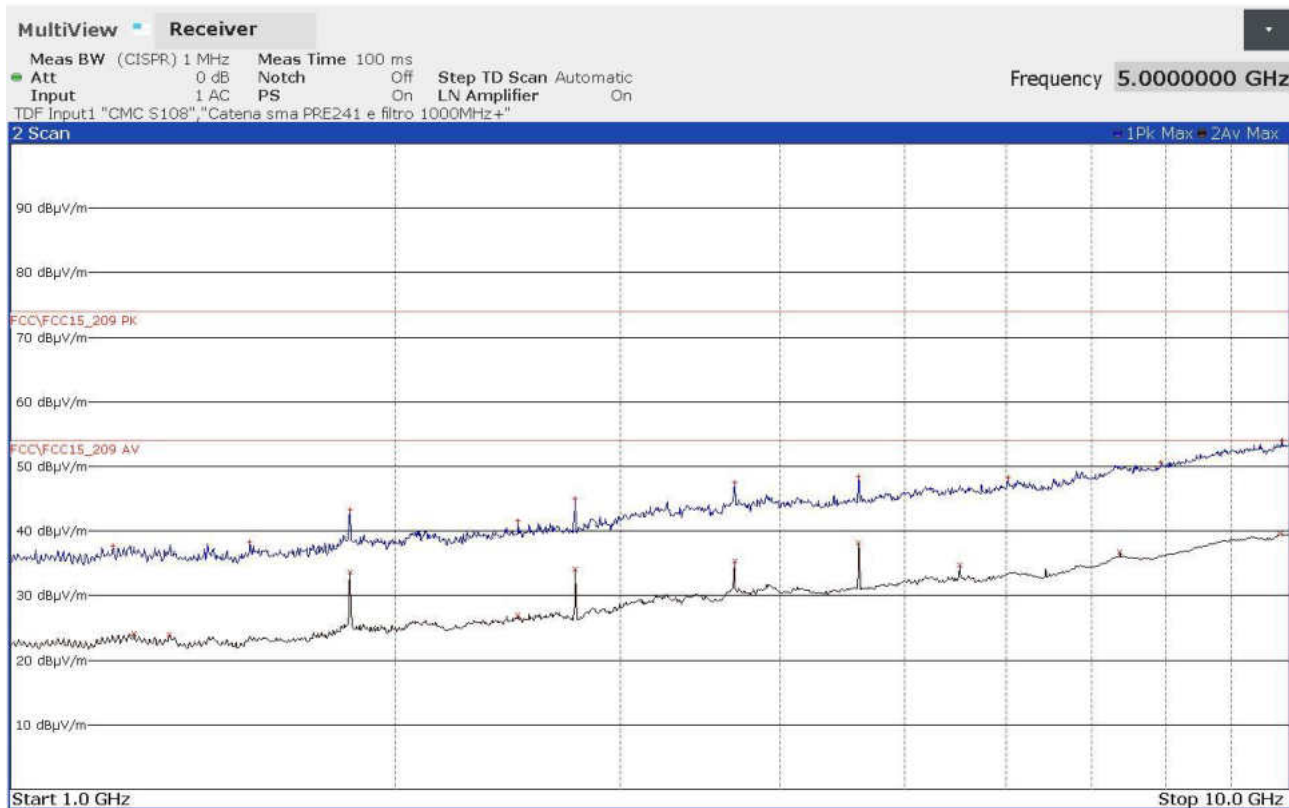


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1249000000	+38,10	-35,88	1249250000	+24,12	-29,86
1330000000	+38,17	-35,81	1331750000	+23,96	-30,02
1837000000	+39,79	-34,19	1842000000	+27,79	-26,19
2494250000	+41,10	-32,88	2494750000	+27,00	-26,98
2762750000	+49,93	-24,05	2763250000	+37,99	-15,99
3684250000	+49,11	-24,87	3684250000	+38,00	-15,98
4605250000	+48,76	-25,22	4605250000	+36,92	-17,06
6100250000	+47,98	-26,00	6070750000	+33,71	-20,27
7368250000	+52,05	-21,93	7368500000	+38,13	-15,85
9850750000	+54,33	-19,65	9994000000	+39,70	-14,28

24078605_2

Panozzo 24078606

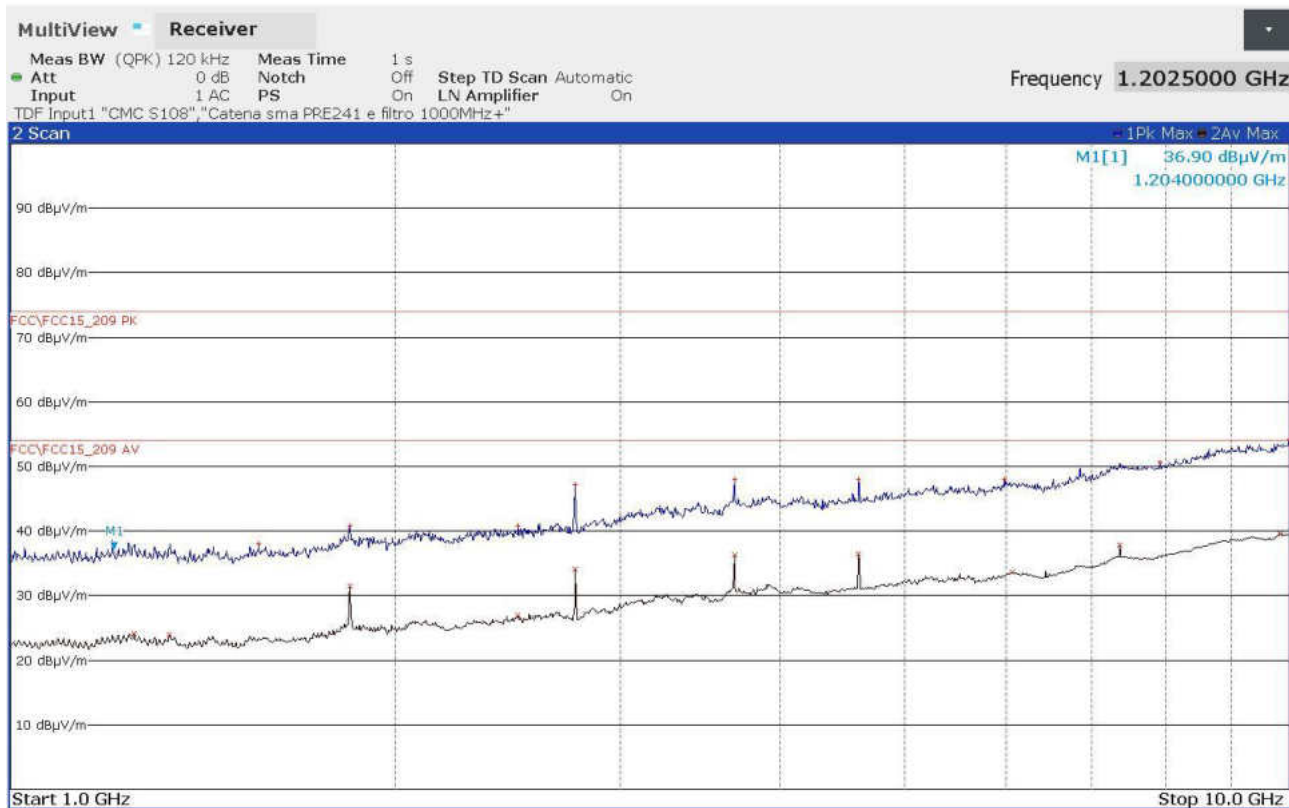


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1202500000	+37,69	-36,29	1249000000	+24,11	-29,87
1539000000	+38,24	-35,74	1331500000	+23,98	-30,00
1842000000	+43,25	-30,73	1842000000	+33,70	-20,28
2493250000	+41,58	-32,40	2494500000	+26,98	-27,00
2763250000	+45,03	-28,95	2763250000	+34,07	-19,91
3684250000	+47,53	-26,45	3684250000	+35,38	-18,60
4605250000	+48,37	-25,61	4605250000	+38,15	-15,83
6025750000	+48,27	-25,71	5526250000	+34,69	-19,29
7938500000	+50,60	-23,38	7368500000	+36,69	-17,29
9866000000	+54,01	-19,97	9830750000	+39,59	-14,39

24078606_2

Panozzo 24078607

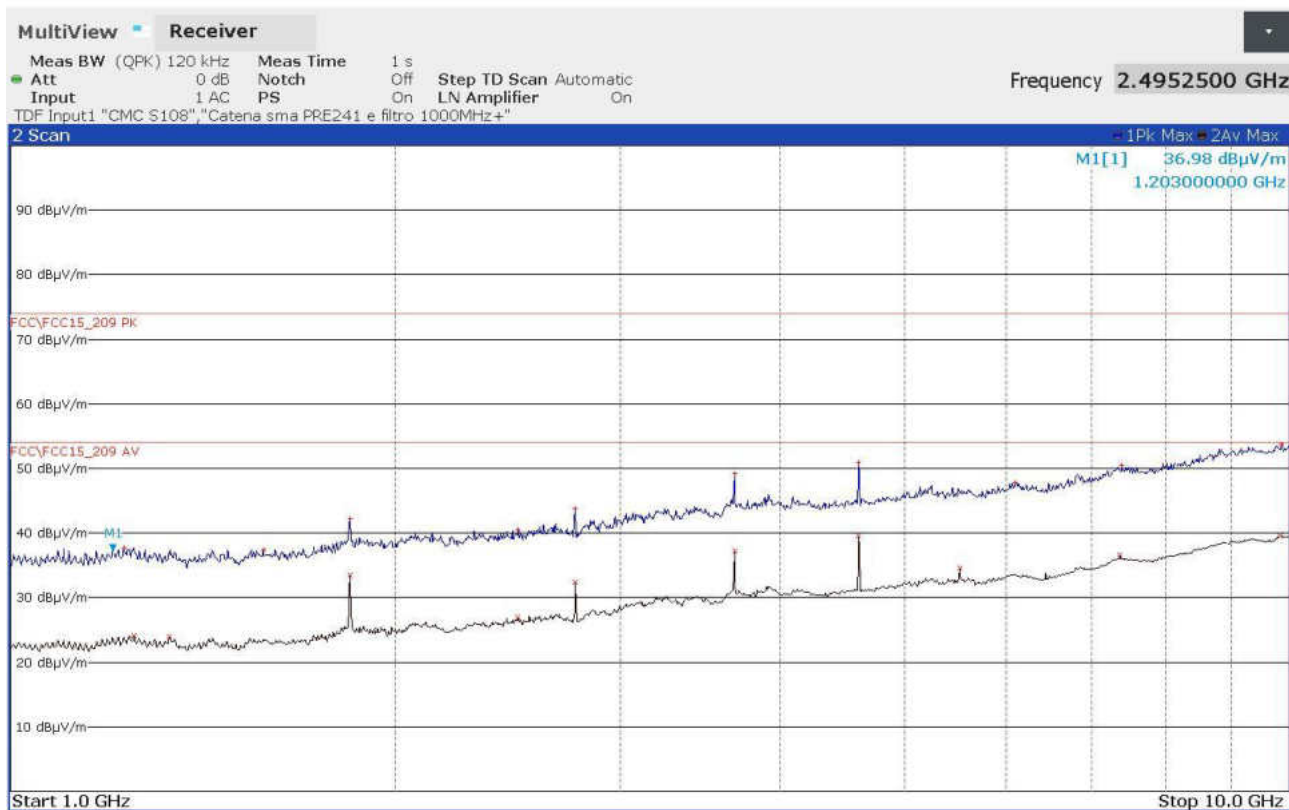


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1201000000	+38,28	-35,70	1249000000	+24,12	-29,86
1562250000	+38,06	-35,92	1331500000	+23,97	-30,01
1842000000	+40,85	-33,13	1842000000	+31,43	-22,55
2493750000	+40,76	-33,22	2494250000	+26,98	-27,00
2762750000	+47,24	-26,74	2763250000	+34,11	-19,87
3684250000	+47,99	-25,99	3684250000	+36,25	-17,73
4605250000	+47,96	-26,02	4605250000	+36,51	-17,47
5988000000	+47,98	-26,00	6071500000	+33,63	-20,35
7917500000	+50,63	-23,35	7368500000	+37,88	-16,10
9994000000	+54,23	-19,75	9831000000	+39,58	-14,40

24078607_2

Panozzo 24078608

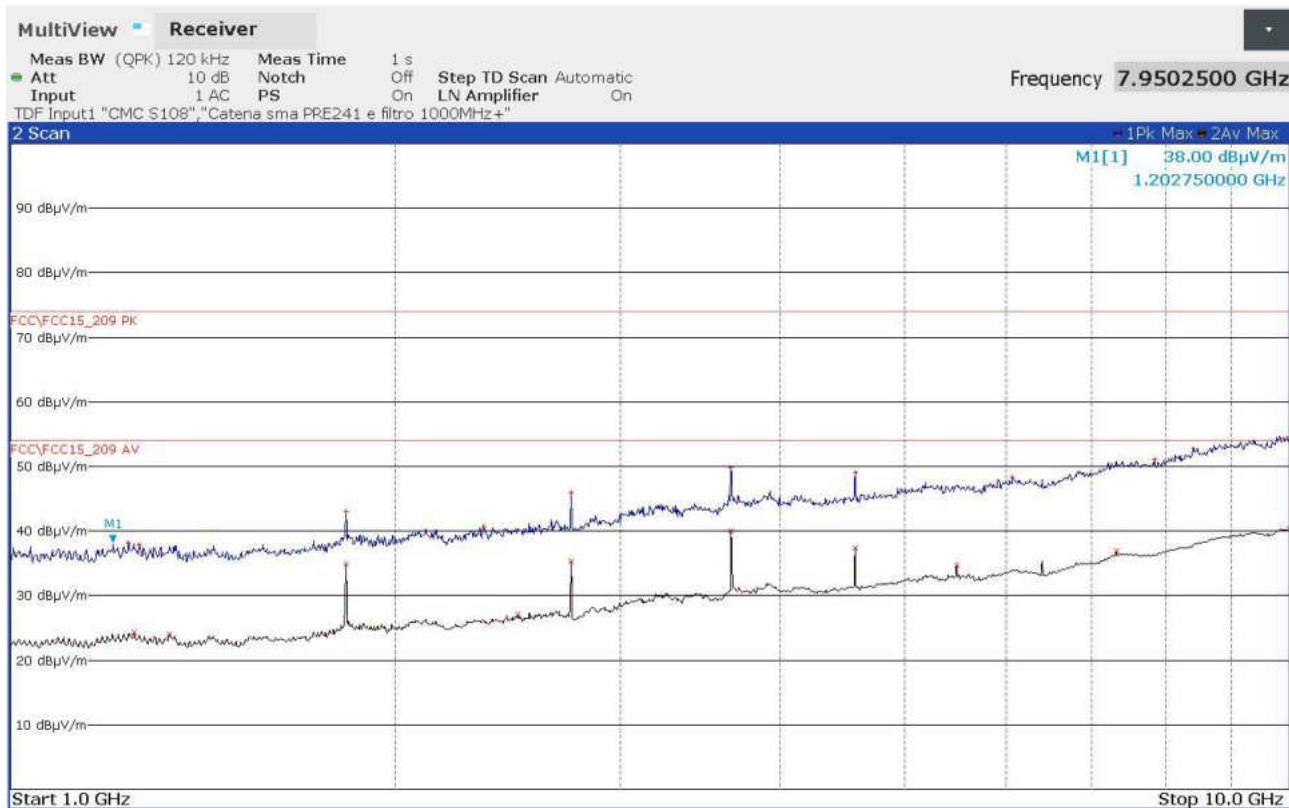


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1226250000	+37,76	-36,22	1249000000	+24,13	-29,85
1576250000	+37,43	-36,55	1331500000	+23,97	-30,01
1842000000	+42,18	-31,80	1842000000	+33,44	-20,54
2495000000	+40,44	-33,54	2494250000	+26,97	-27,01
2762750000	+43,75	-30,23	2763250000	+32,42	-21,56
3684250000	+49,22	-24,76	3684250000	+37,16	-16,82
4605250000	+50,91	-23,07	4605250000	+39,54	-14,44
6104500000	+47,77	-26,21	5526250000	+34,54	-19,44
7392750000	+50,50	-23,48	7368500000	+36,67	-17,31
9863250000	+53,67	-20,31	9832750000	+39,56	-14,42

24078608_2

Panozzo 24078609

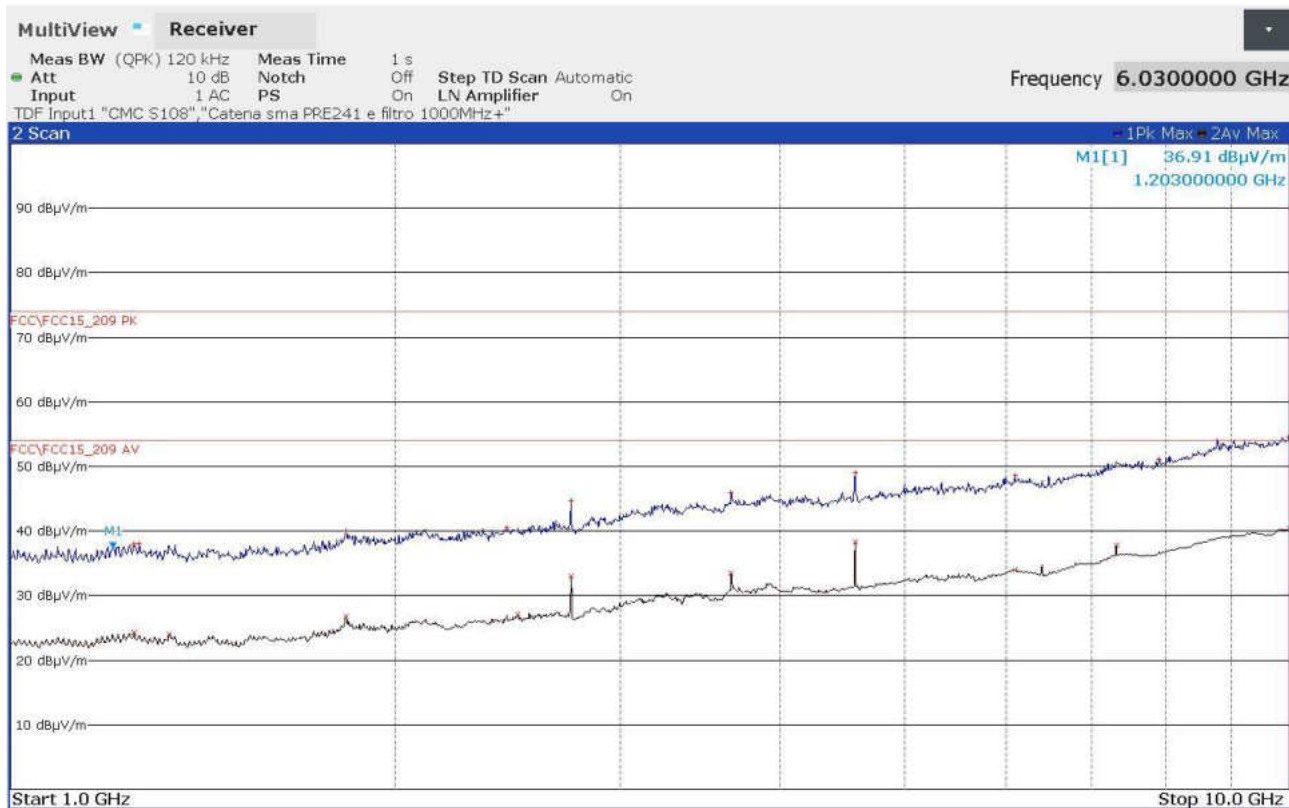


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1236500000	+38,15	-35,83	1249250000	+24,24	-29,74
1260500000	+37,90	-36,08	1331750000	+24,05	-29,93
1830000000	+42,98	-31,00	1830000000	+34,89	-19,09
2343000000	+40,73	-33,25	2494500000	+27,14	-26,84
2744750000	+46,02	-27,96	2745250000	+35,43	-18,55
3660250000	+49,91	-24,07	3660250000	+39,99	-13,99
4575250000	+48,99	-24,99	4575250000	+37,37	-16,61
6074500000	+48,26	-25,72	5490250000	+34,81	-19,17
7841500000	+51,05	-22,93	7320500000	+36,89	-17,09
9993000000	+54,70	-19,28	9993750000	+40,37	-13,61

24078609_2

Panozzo 24078610

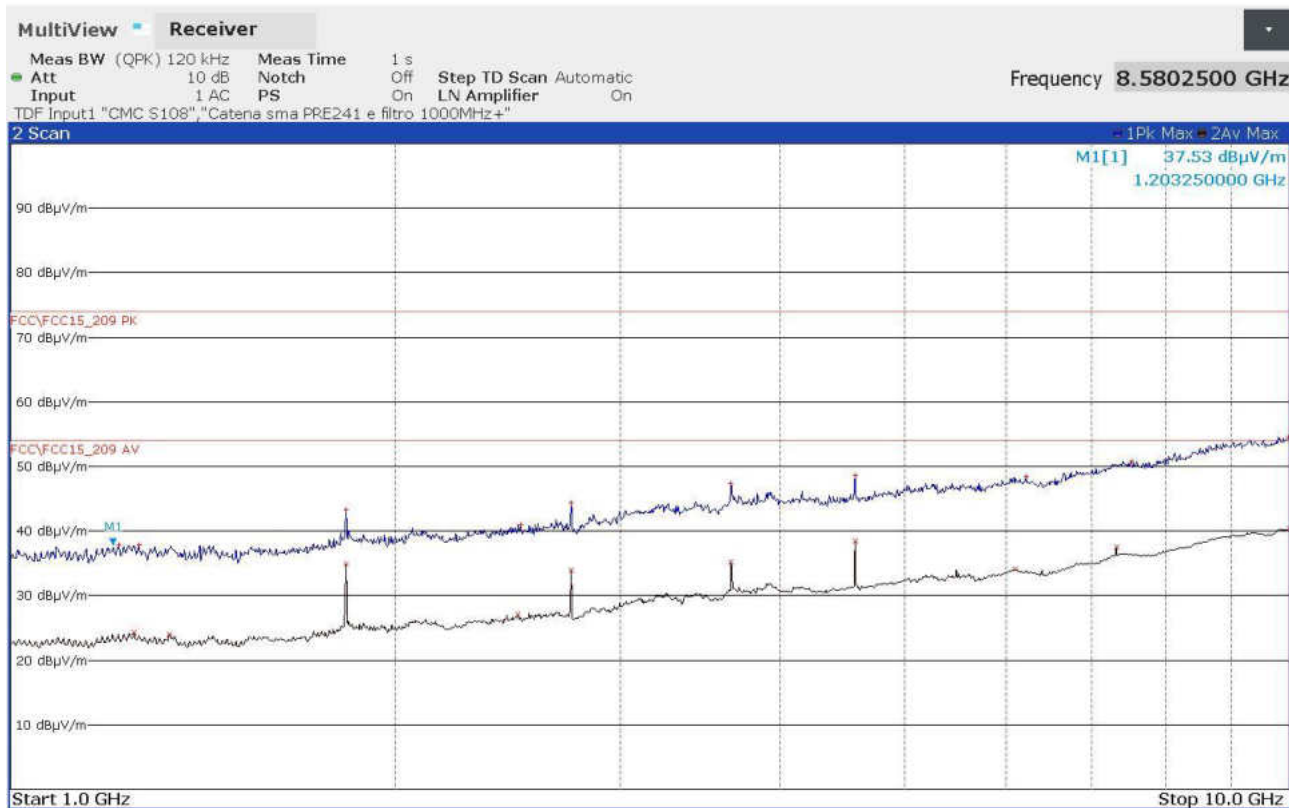


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1249500000	+37,98	-36,00	1249000000	+24,23	-29,75
1260500000	+38,03	-35,95	1331500000	+24,04	-29,94
1830000000	+40,02	-33,96	1830000000	+26,80	-27,18
2442500000	+40,50	-33,48	2494250000	+27,06	-26,92
2744750000	+44,78	-29,20	2745250000	+33,09	-20,89
3660250000	+45,95	-28,03	3660250000	+33,46	-20,52
4575250000	+49,11	-24,87	4575250000	+38,38	-15,60
6099500000	+48,55	-25,43	6099750000	+34,01	-19,97
7906000000	+51,11	-22,87	7320500000	+37,92	-16,06
9982500000	+54,47	-19,51	9993250000	+40,39	-13,59

24078610_2

Panozzo 24078611

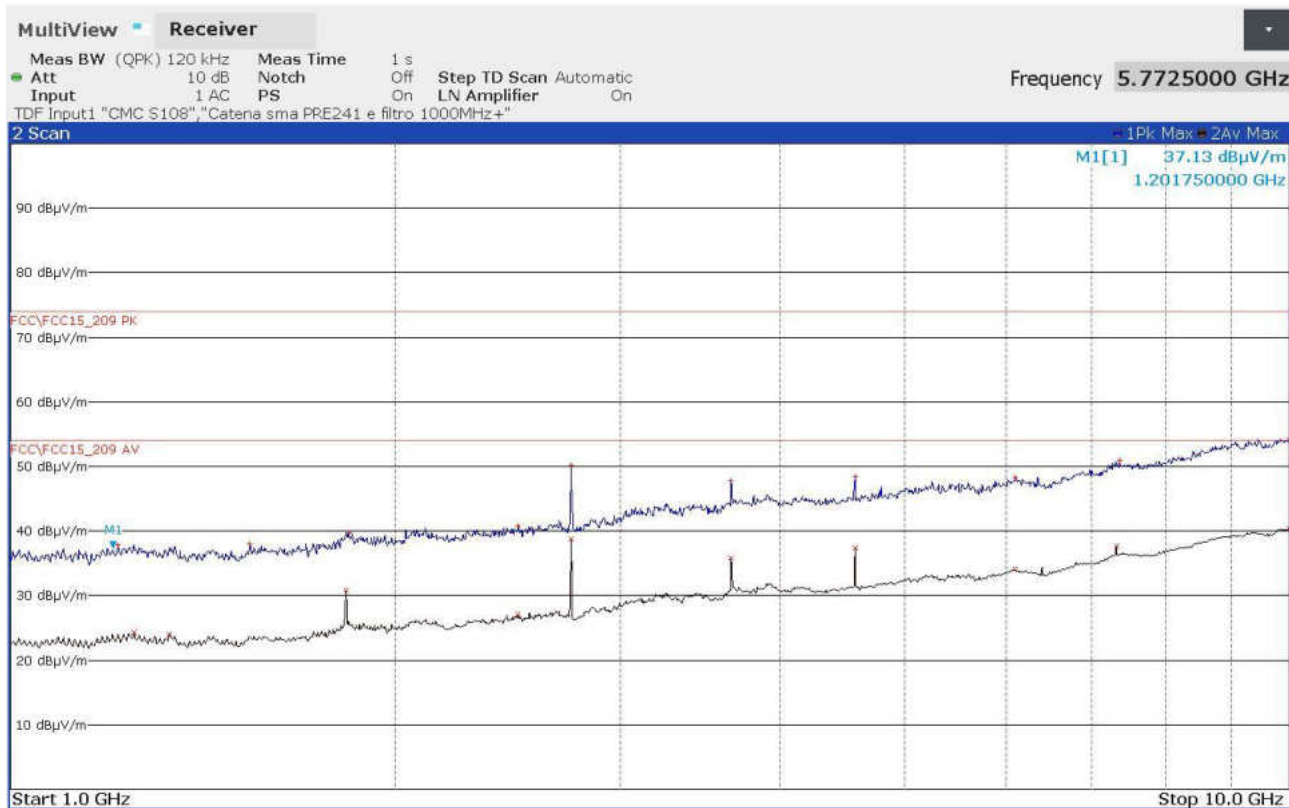


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1215500000	+37,91	-36,07	1249250000	+24,23	-29,75
1260250000	+37,84	-36,14	1331250000	+24,05	-29,93
1830000000	+43,34	-30,64	1830000000	+34,92	-19,06
2505250000	+40,93	-33,05	2494250000	+27,07	-26,91
2745250000	+44,39	-29,59	2745250000	+33,99	-19,99
3660000000	+47,39	-26,59	3660250000	+35,14	-18,84
4575500000	+48,65	-25,33	4575250000	+38,40	-15,58
6222750000	+48,42	-25,56	6098500000	+34,04	-19,94
7523500000	+50,83	-23,15	7320500000	+37,60	-16,38
9988750000	+54,57	-19,41	9994000000	+40,40	-13,58

24078611_2

Panozzo 24078612

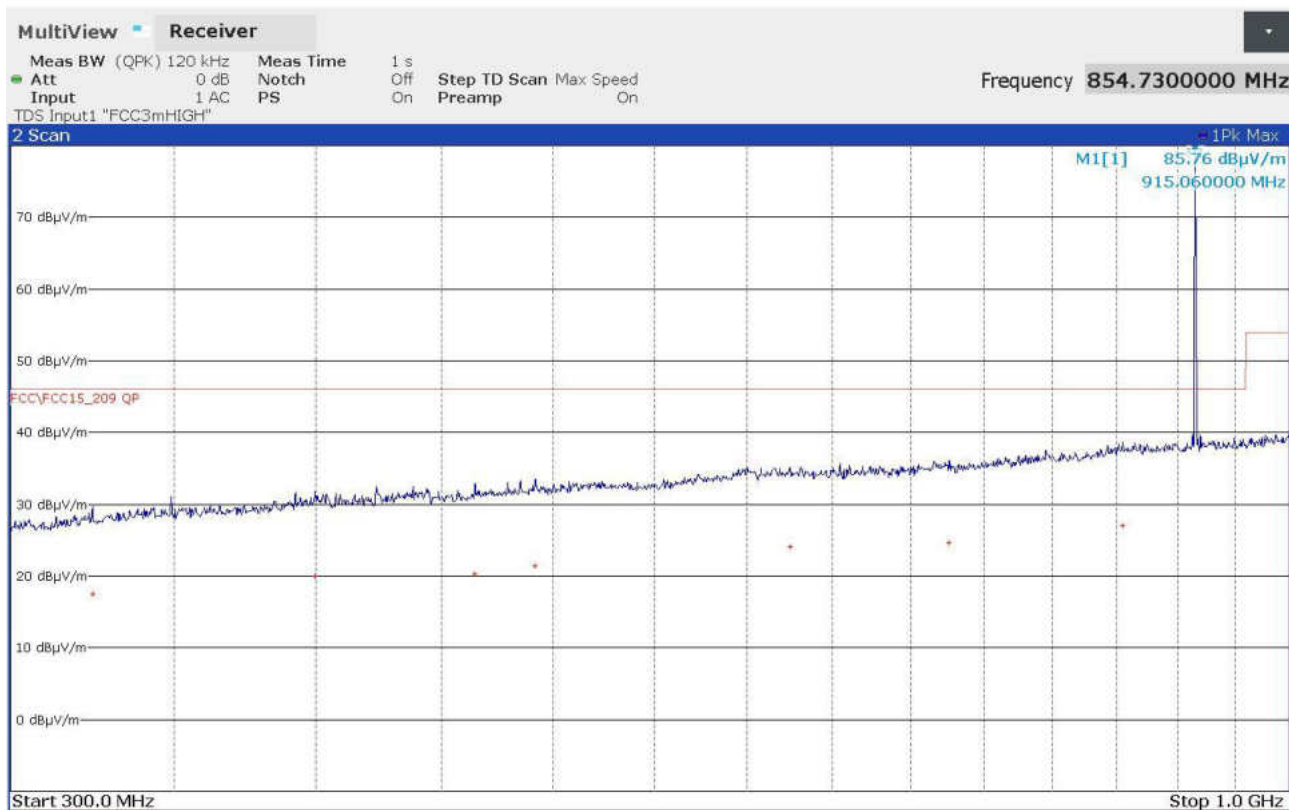


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1213250000	+37,87	-36,11	1249250000	+24,25	-29,73
1538500000	+38,00	-35,98	1331500000	+24,06	-29,92
1838750000	+39,76	-34,22	1830000000	+30,90	-23,08
2494250000	+40,87	-33,11	2494250000	+27,15	-26,83
2745000000	+50,20	-23,78	2745250000	+38,72	-15,26
3660250000	+47,89	-26,09	3660250000	+35,78	-18,20
4575250000	+48,37	-25,61	4575250000	+37,34	-16,64
6103750000	+48,28	-25,70	6099000000	+34,06	-19,92
7364500000	+50,92	-23,06	7320500000	+37,63	-16,35
9992500000	+54,35	-19,63	9993250000	+40,38	-13,60

24078612_2

Panozzo 24078613



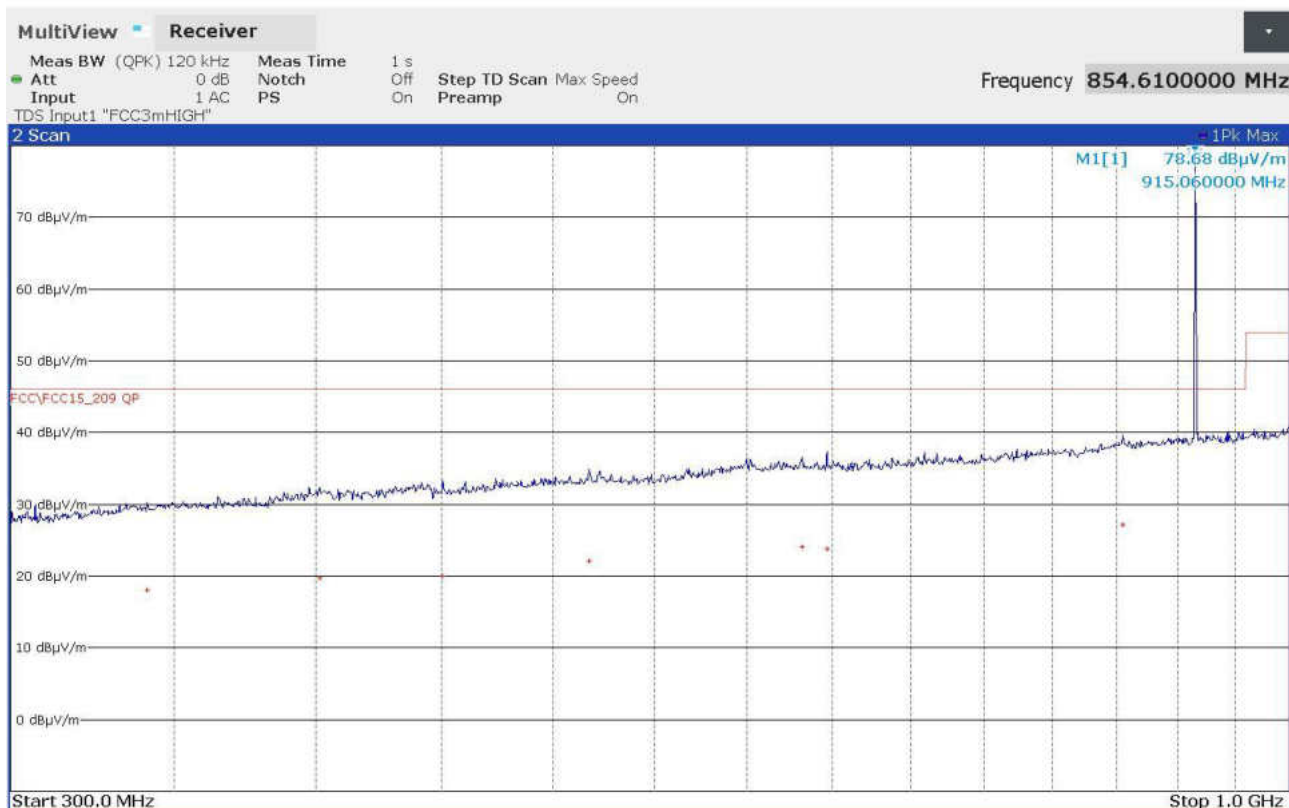
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
324090000	+17,54	-28,48
399600000	+20,03	-25,99
464580000	+20,35	-25,67
491730000	+21,41	-24,61
624750000	+24,03	-21,99
725970000	+24,59	-21,43
854730000	+27,05	-18,97

24078613_2

Panozzo 24078614



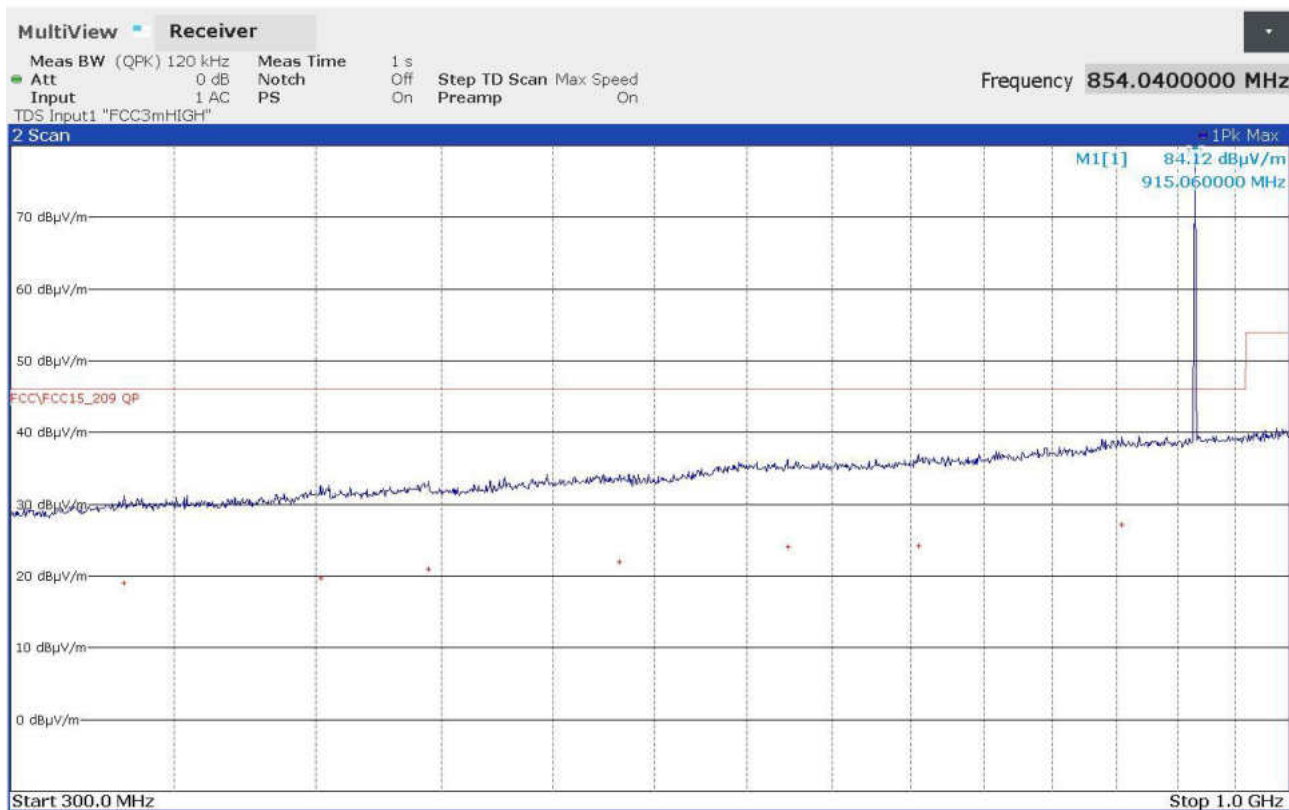
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
341100000	+18,09	-27,93
401400000	+19,72	-26,30
450690000	+19,97	-26,05
517230000	+22,13	-23,89
631950000	+24,10	-21,92
647010000	+23,73	-22,29
854610000	+27,11	-18,91

24078614_2

Panozzo 24078615



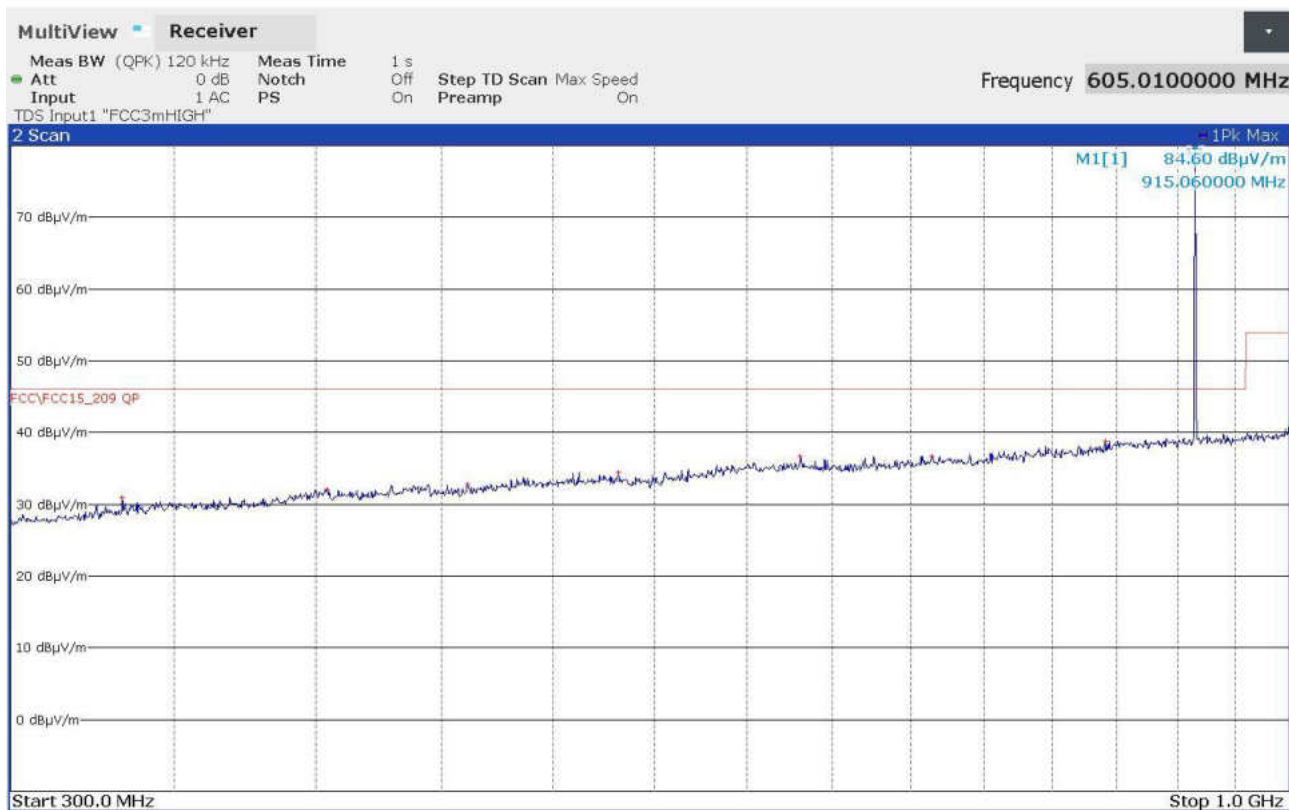
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
333780000	+19,07	-26,95
401640000	+19,72	-26,30
444690000	+20,93	-25,09
532110000	+21,99	-24,03
623610000	+24,03	-21,99
705180000	+24,21	-21,81
854040000	+27,19	-18,83

24078615_2

Panozzo 24078616



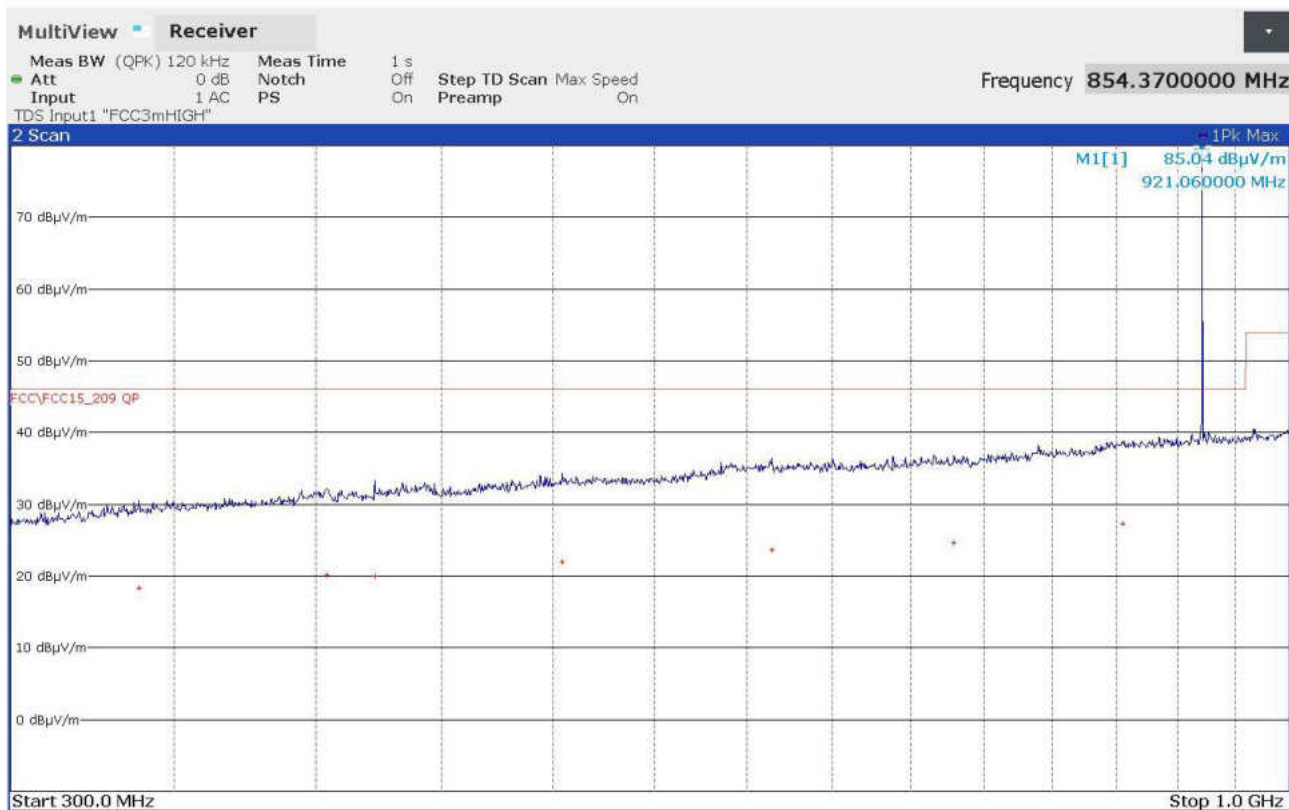
FINAL RESULT TABLE

MAX PEAK

Freq Hz	Lev dBuV/m	Margin dB
333300000	+30,94	-15,08
404010000	+32,08	-13,94
461160000	+32,81	-13,21
531780000	+34,44	-11,58
631050000	+36,63	-9,39
714300000	+36,73	-9,29
840990000	+38,83	-7,19

24078616_2

Panozzo 24078617



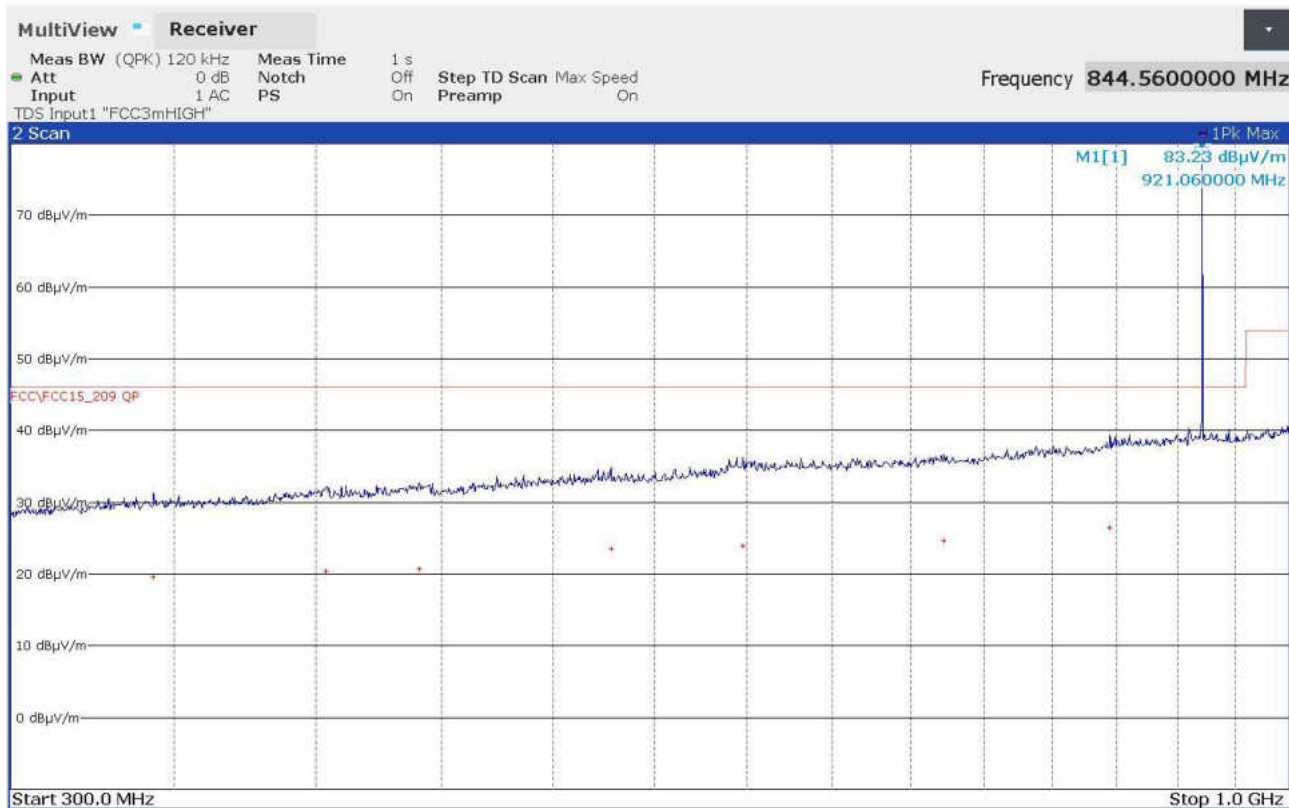
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
338580000	+18,35	-27,67
404220000	+20,17	-25,85
422790000	+19,93	-26,09
504360000	+22,01	-24,01
614400000	+23,69	-22,33
729420000	+24,69	-21,33
854370000	+27,29	-18,73

24078617_2

Panozzo 24078618



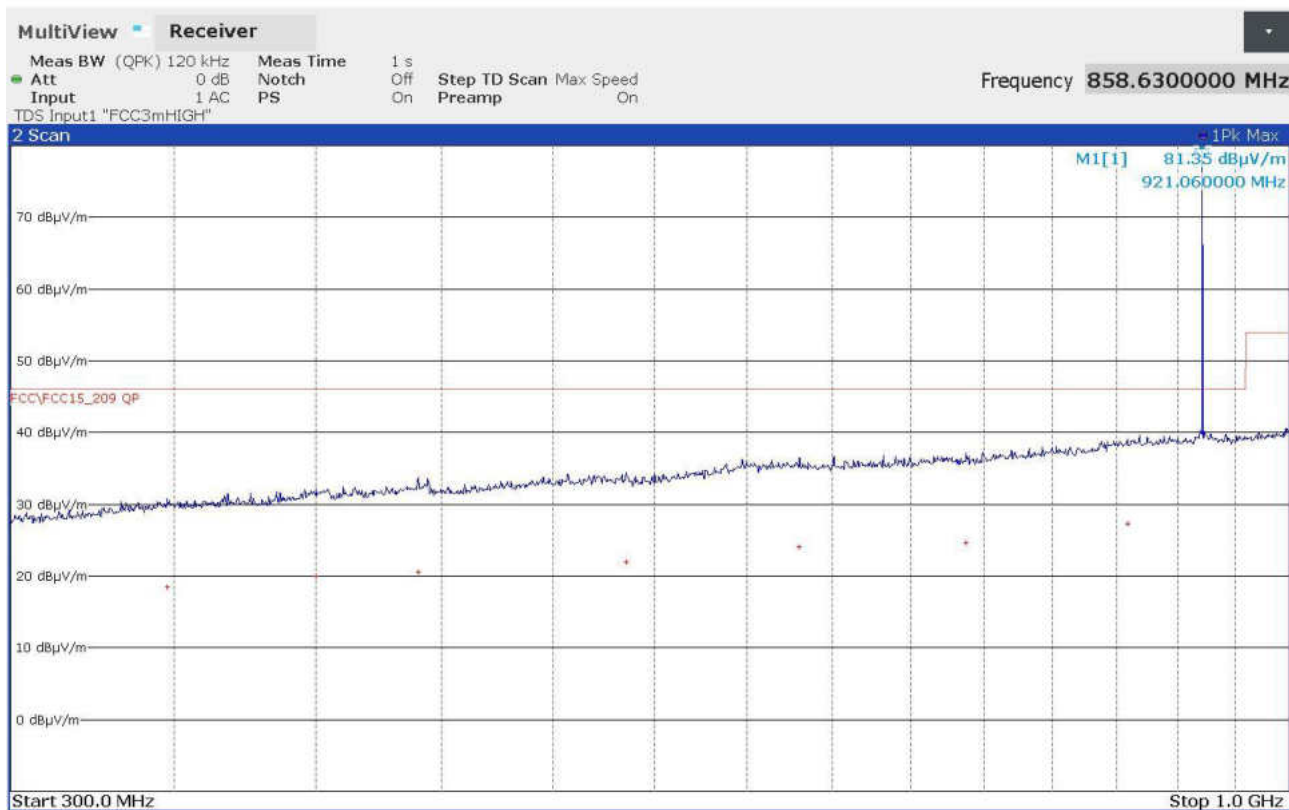
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
343230000	+19,58	-26,44
403830000	+20,38	-25,64
440730000	+20,68	-25,34
527970000	+23,51	-22,51
597840000	+23,87	-22,15
722190000	+24,57	-21,45
844560000	+26,41	-19,61

24078618_2

Panozzo 24078619



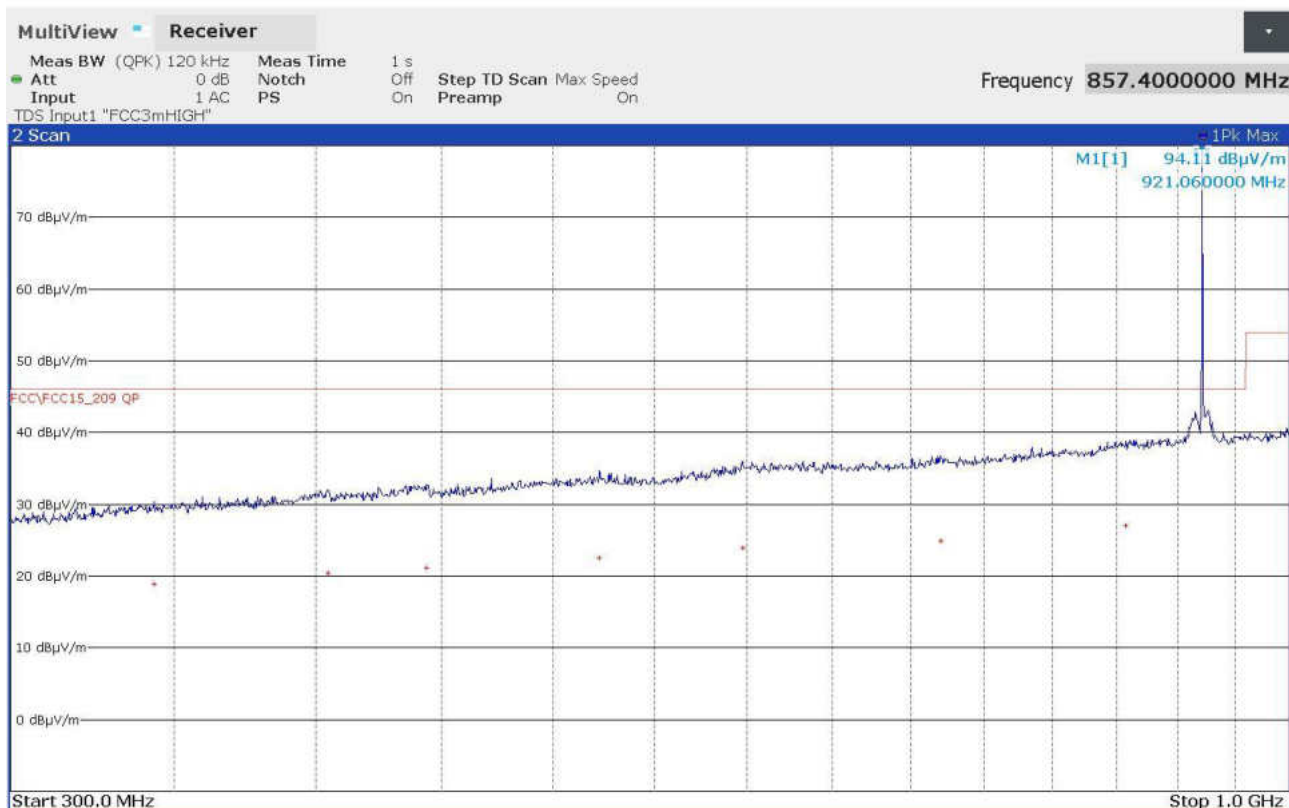
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
347790000	+18,47	-27,55
399990000	+20,05	-25,97
440280000	+20,63	-25,39
535530000	+21,92	-24,10
630600000	+24,03	-21,99
737370000	+24,64	-21,38
858630000	+27,27	-18,75

24078619_2

Panozzo 24078620



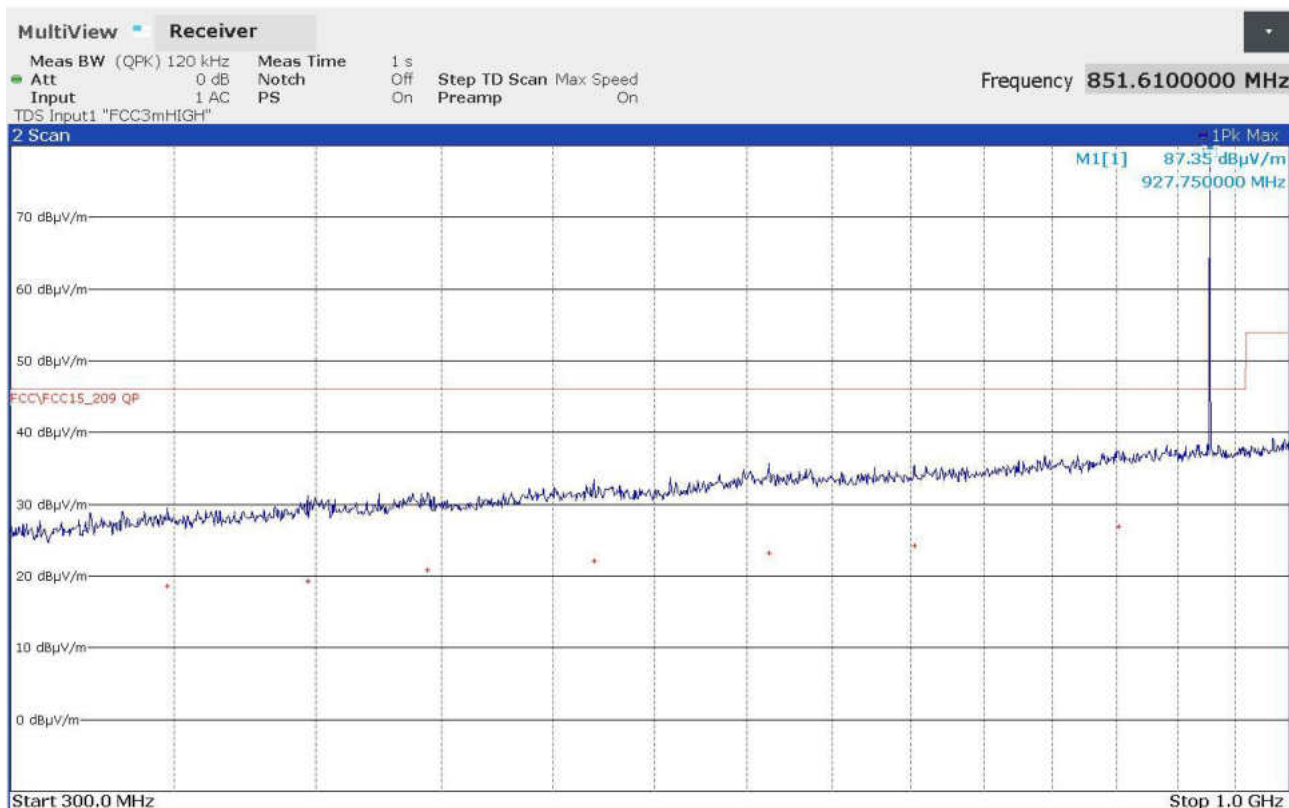
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
343500000	+18,81	-27,21
404520000	+20,47	-25,55
443970000	+21,14	-24,88
522360000	+22,55	-23,47
597600000	+23,94	-22,08
719970000	+24,86	-21,16
857400000	+27,01	-19,01

24078620_2

Panozzo 24078621



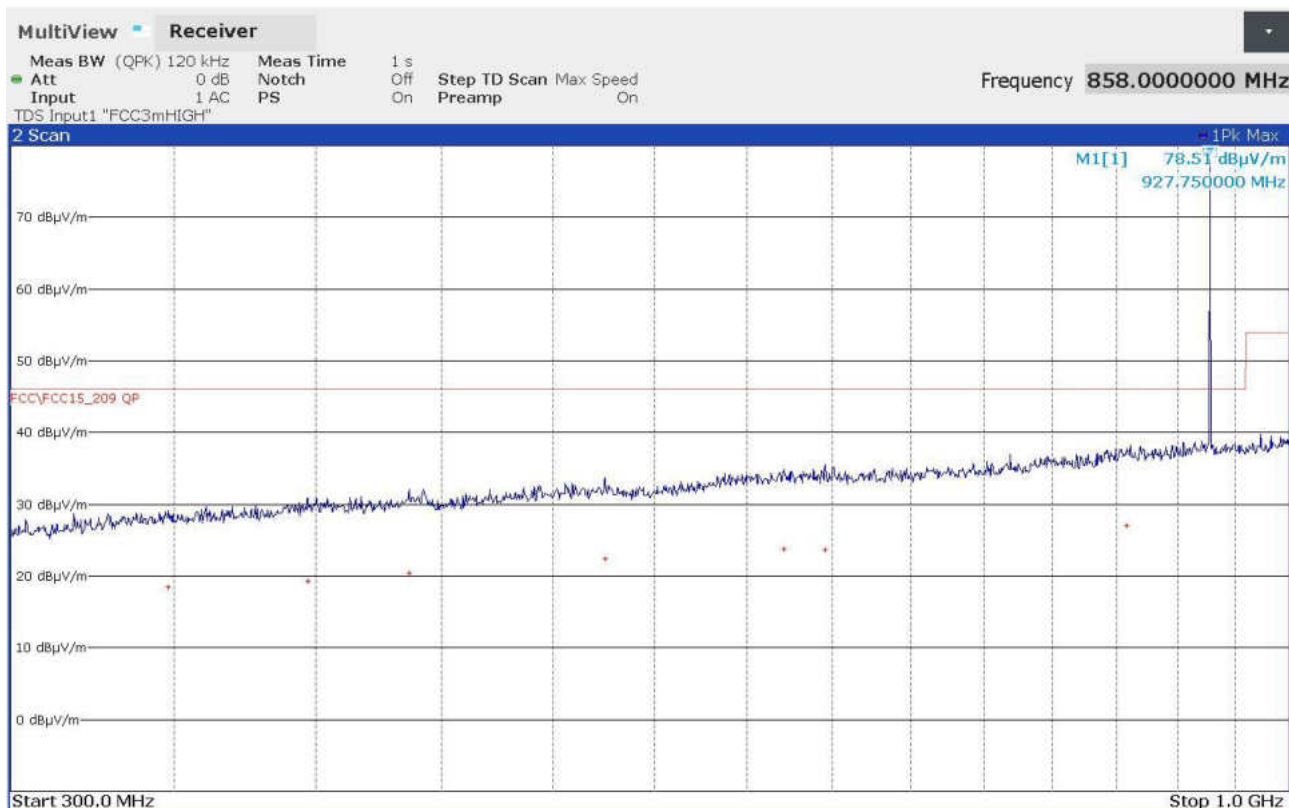
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
347640000	+18,54	-27,48
396840000	+19,24	-26,78
444390000	+20,83	-25,19
519570000	+22,10	-23,92
612750000	+23,24	-22,78
702450000	+24,24	-21,78
851610000	+26,88	-19,14

24078621_2

Panozzo 24078622



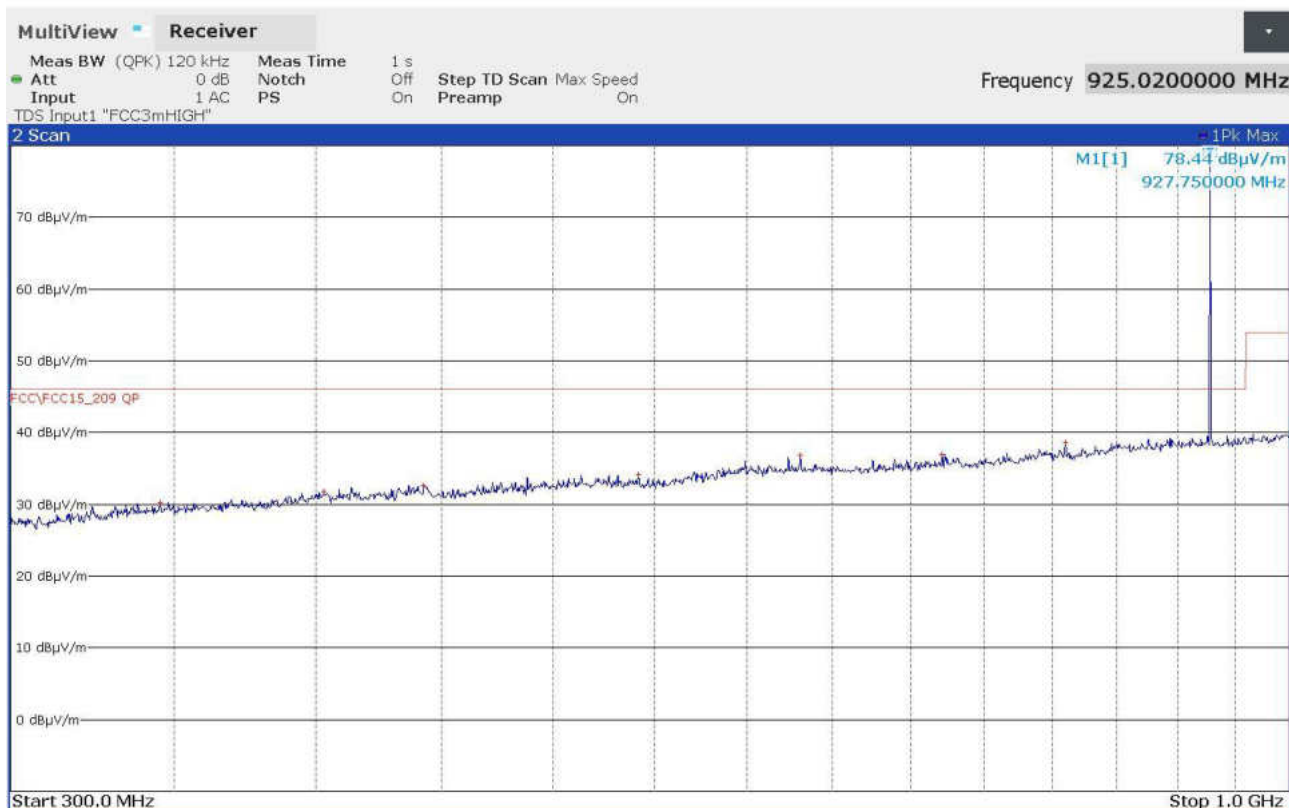
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
348090000	+18,45	-27,57
396750000	+19,30	-26,72
436620000	+20,45	-25,57
524940000	+22,41	-23,61
621210000	+23,85	-22,17
645780000	+23,68	-22,34
858000000	+27,00	-19,02

24078622_2

Panozzo 24078623



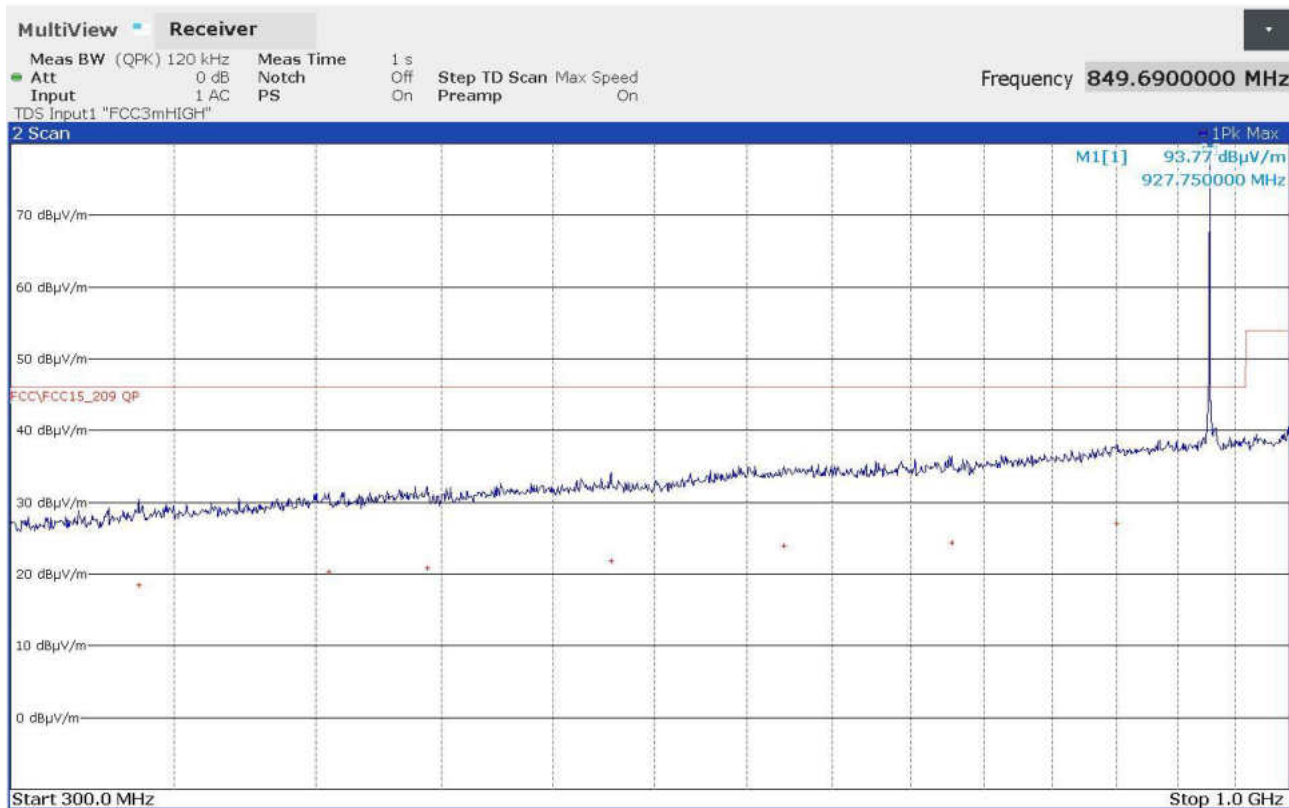
FINAL RESULT TABLE

MAX PEAK

Freq Hz	Lev dBuV/m	Margin dB
345420000	+30,26	-15,76
403140000	+31,84	-14,18
442680000	+32,67	-13,35
541950000	+34,15	-11,87
631050000	+36,81	-9,21
721140000	+36,97	-9,05
809970000	+38,66	-7,36

24078623_2

Panozzo 24078624



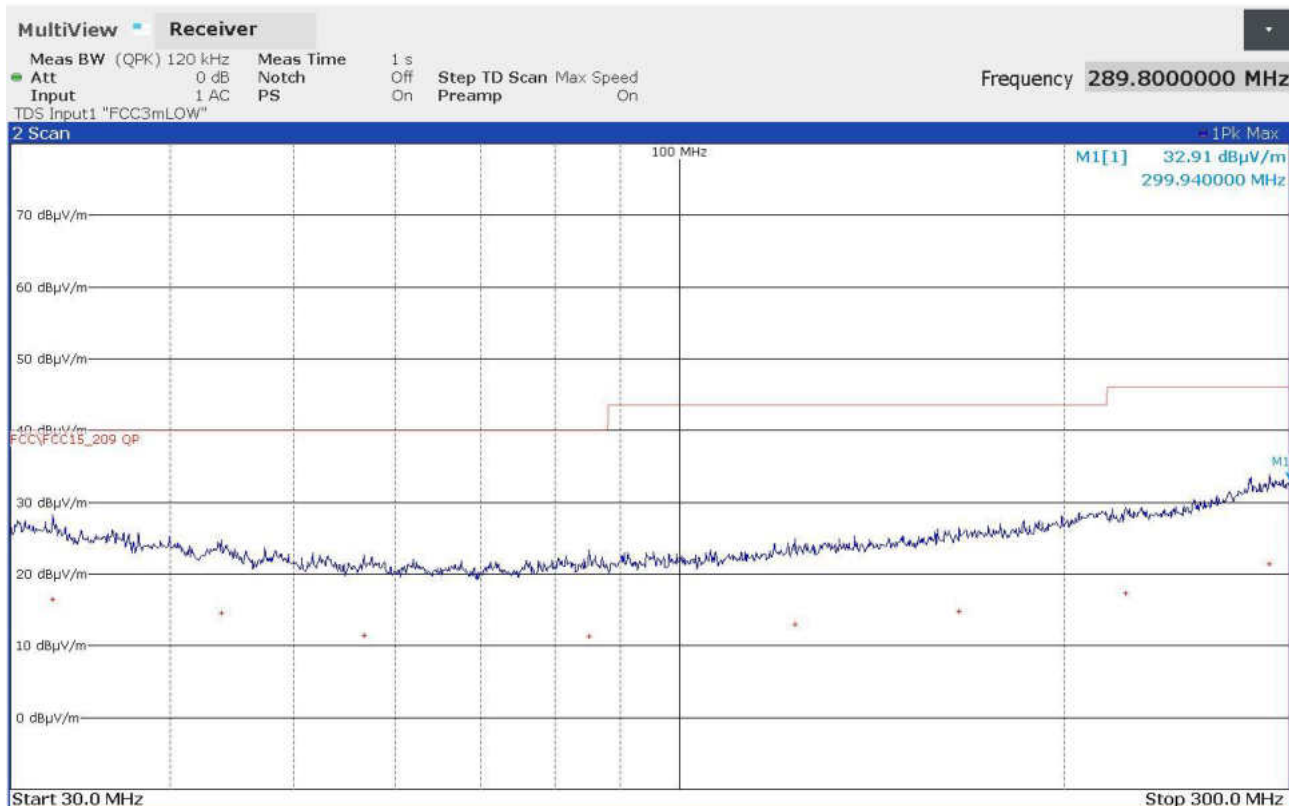
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
338490000	+18,52	-27,50
404880000	+20,27	-25,75
444000000	+20,82	-25,20
527910000	+21,83	-24,19
621390000	+23,86	-22,16
727500000	+24,30	-21,72
849690000	+26,95	-19,07

24078624_2

Panozzo 24078625



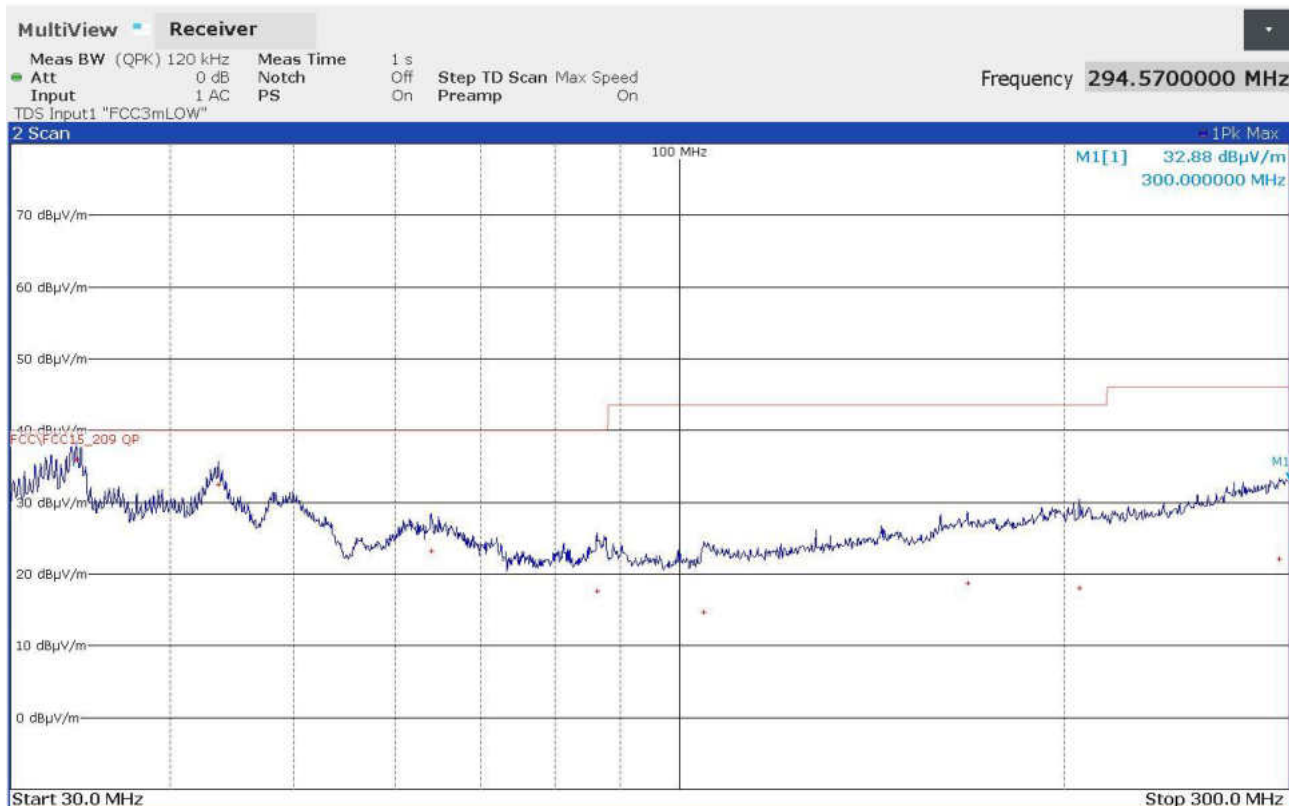
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
32370000	+16,49	-23,51
43830000	+14,60	-25,40
56700000	+11,39	-28,61
85020000	+11,36	-28,64
123150000	+13,06	-30,46
165540000	+14,82	-28,70
223320000	+17,39	-28,63
289500000	+21,47	-24,55

24078625_2

Panozzo 24078626



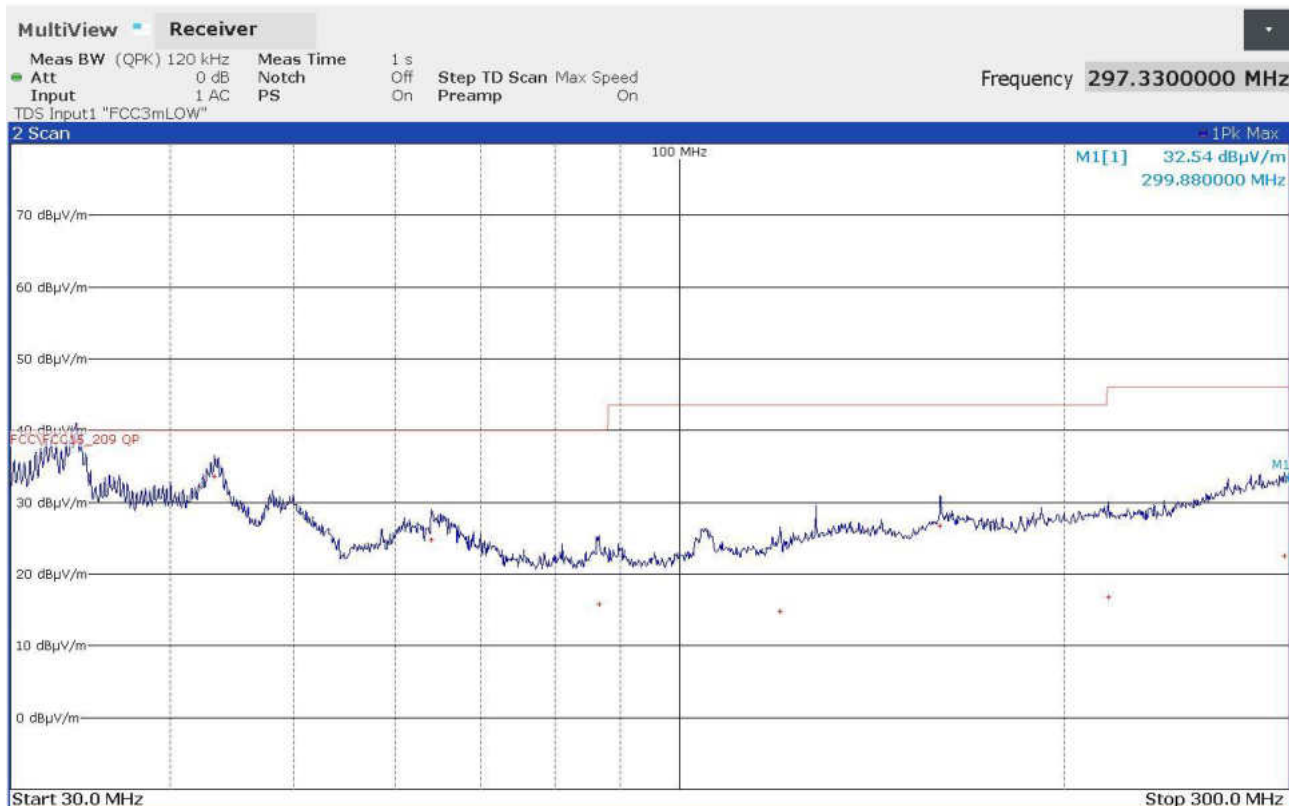
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
33780000	+35,98	-4,02
43620000	+32,52	-7,48
63960000	+23,16	-16,84
86220000	+17,61	-22,39
104580000	+14,68	-28,84
168030000	+18,74	-24,78
205650000	+18,03	-25,49
294570000	+22,04	-23,98

24078626_2

Panozzo 24078627



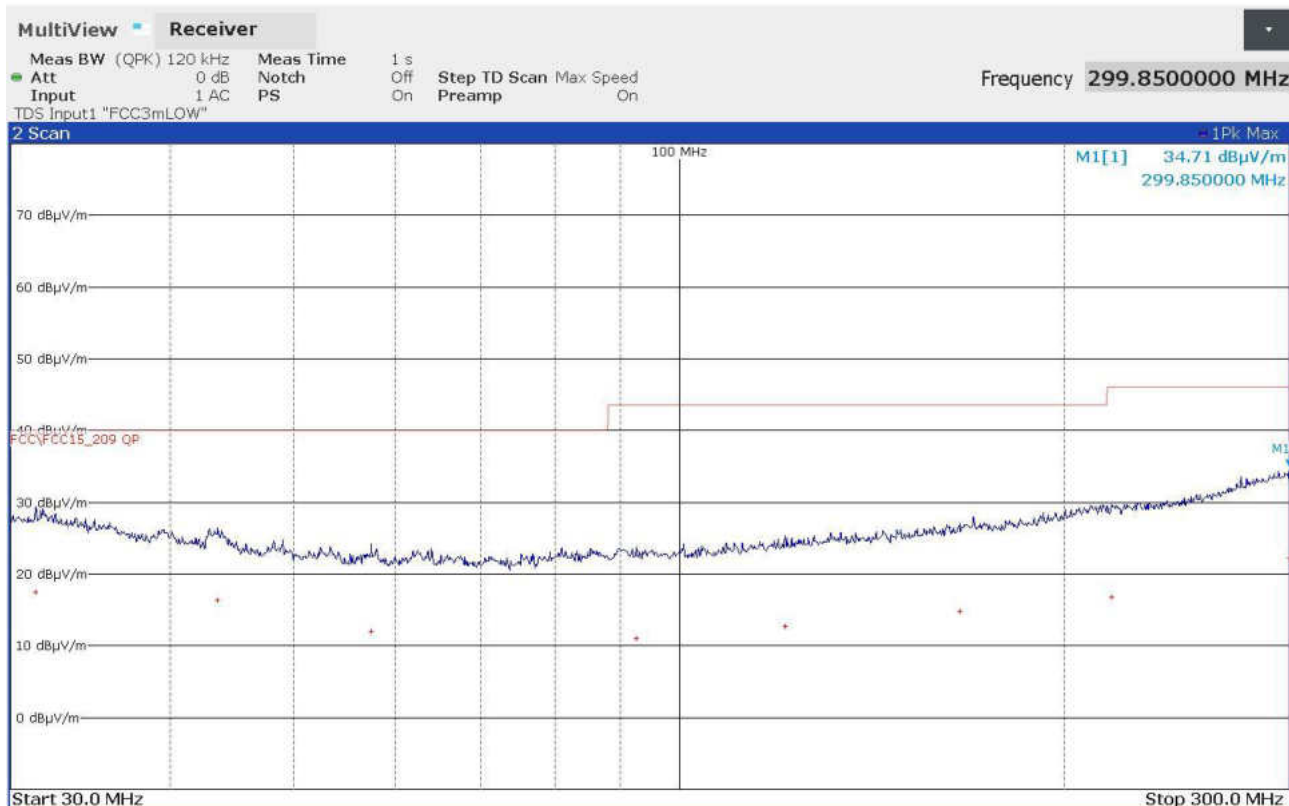
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
33750000	+38,54	-1,46
43320000	+33,56	-6,44
63990000	+24,83	-15,17
86520000	+15,79	-24,21
119940000	+14,82	-28,70
159990000	+26,67	-16,85
216510000	+16,82	-29,20
297330000	+22,53	-23,49

24078627_2

Panozzo 24078628



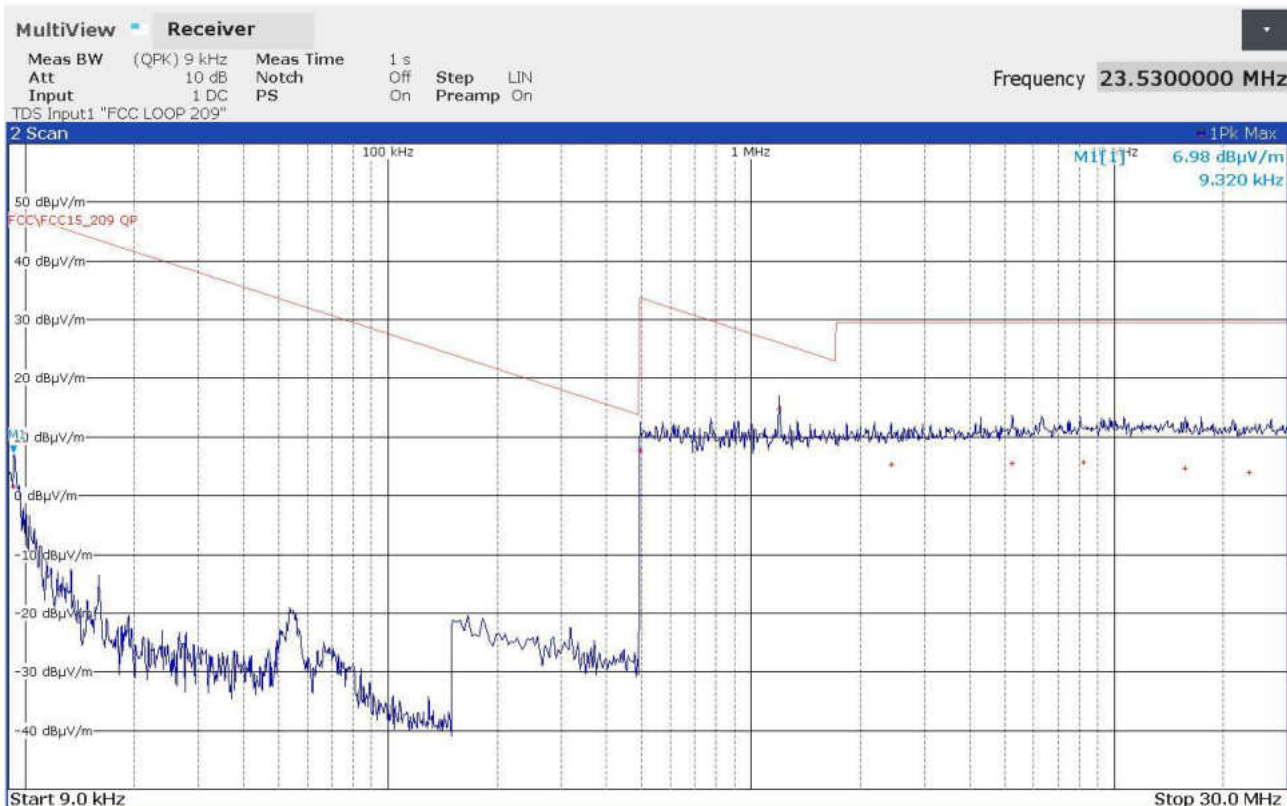
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
31410000	+17,42	-22,58
43560000	+16,39	-23,61
57420000	+12,07	-27,93
92610000	+10,99	-32,53
120960000	+12,77	-30,75
165720000	+14,77	-28,75
217800000	+16,77	-29,25
299850000	+22,29	-23,73

24078628_2

Panozzo 24078629



FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
9320	+1,57	-46,65
494000	+7,70	-26,03
1194000	+14,74	-11,32
2430000	+5,35	-24,19
5246000	+5,45	-24,09
8214000	+5,65	-23,89
15674000	+4,68	-24,86
23530000	+3,91	-25,63

24078629_2

9.4 Peak Output Power

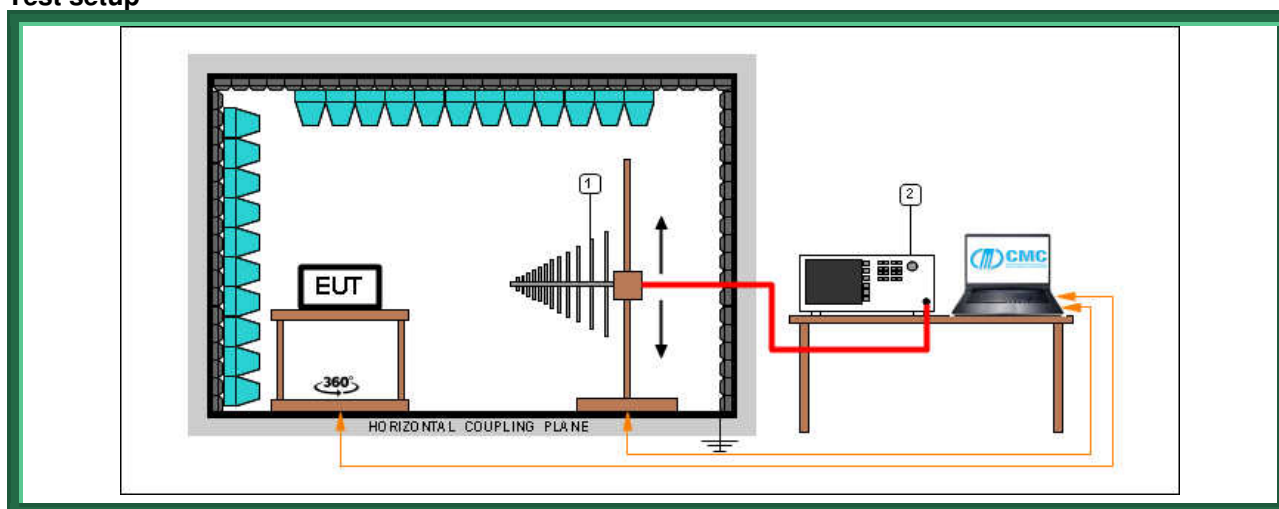
Tested by	C. Panozzo
Test date	05.09.2024
Test location (stand)	Semi-anechoic chamber (CMC A070)
Product standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.209 and 249
Supplementary test set-up description	EUT – antenna distance: 10 m
Supplementary information	--

Acceptance limits

Frequency range (MHz)	RF Power Output (mV/m)	RF Power Output dB(μV/m)
902 – 928	50	94

Frequency range (MHz)	RF Power Output (mV/m)	RF Power Output dB(μV/m)
2400 – 2483,5	50	94

Test setup



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

Result

Transmission frequency (MHz)	Polarization	Graphs	Measured level (dBμV/m)	Limit (dBμV/m)	Peak Output Power (mW)
915,05	Worst case	G24078630	93,94	94,00	8,26
921,05	Worst case	G24078635	93,95	94,00	8,28
927,75	Worst case	G24078638	93,93	94,00	8,24

Remarks

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

Where:

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

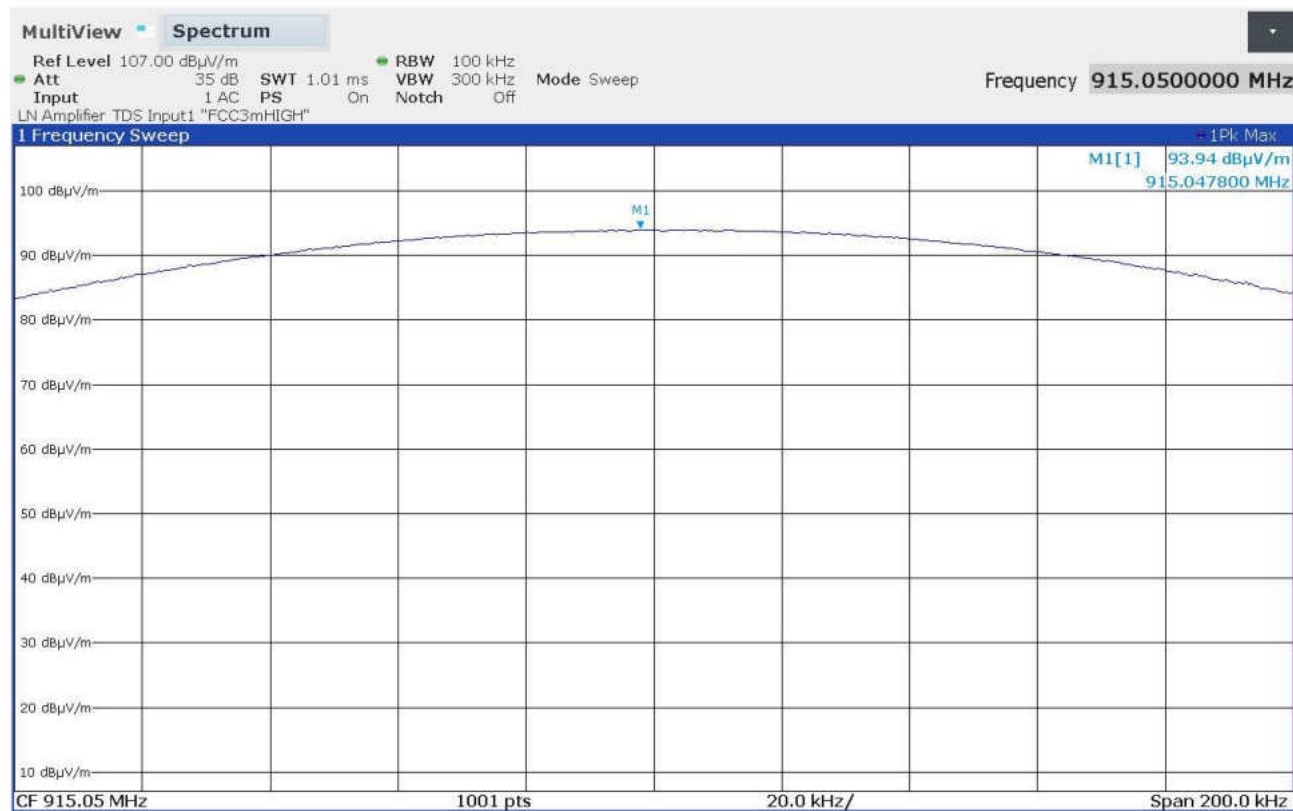
G = the numeric gain of the transmitting antenna: 1 (0 dBi)

d = the distance in meters from which the field strength was measured (10 m)

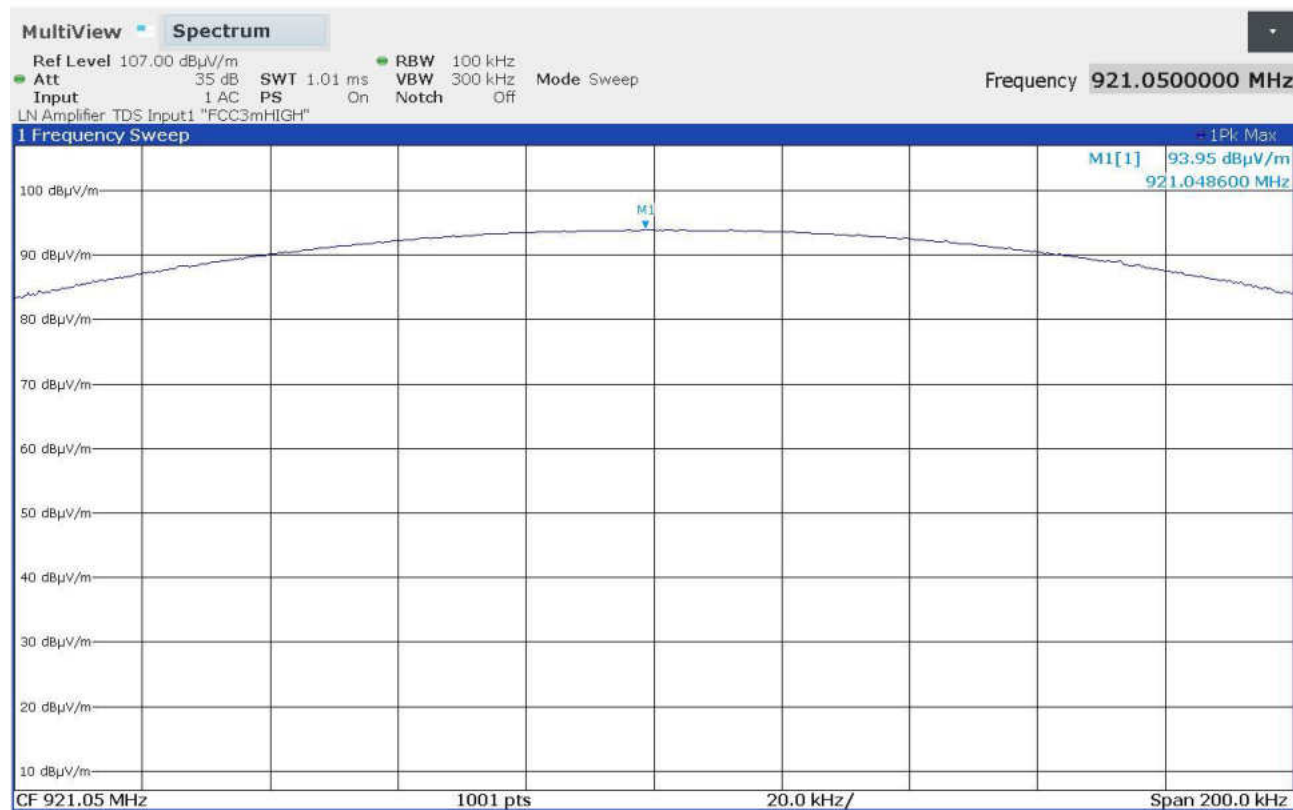
P = the power in watts

Graphs

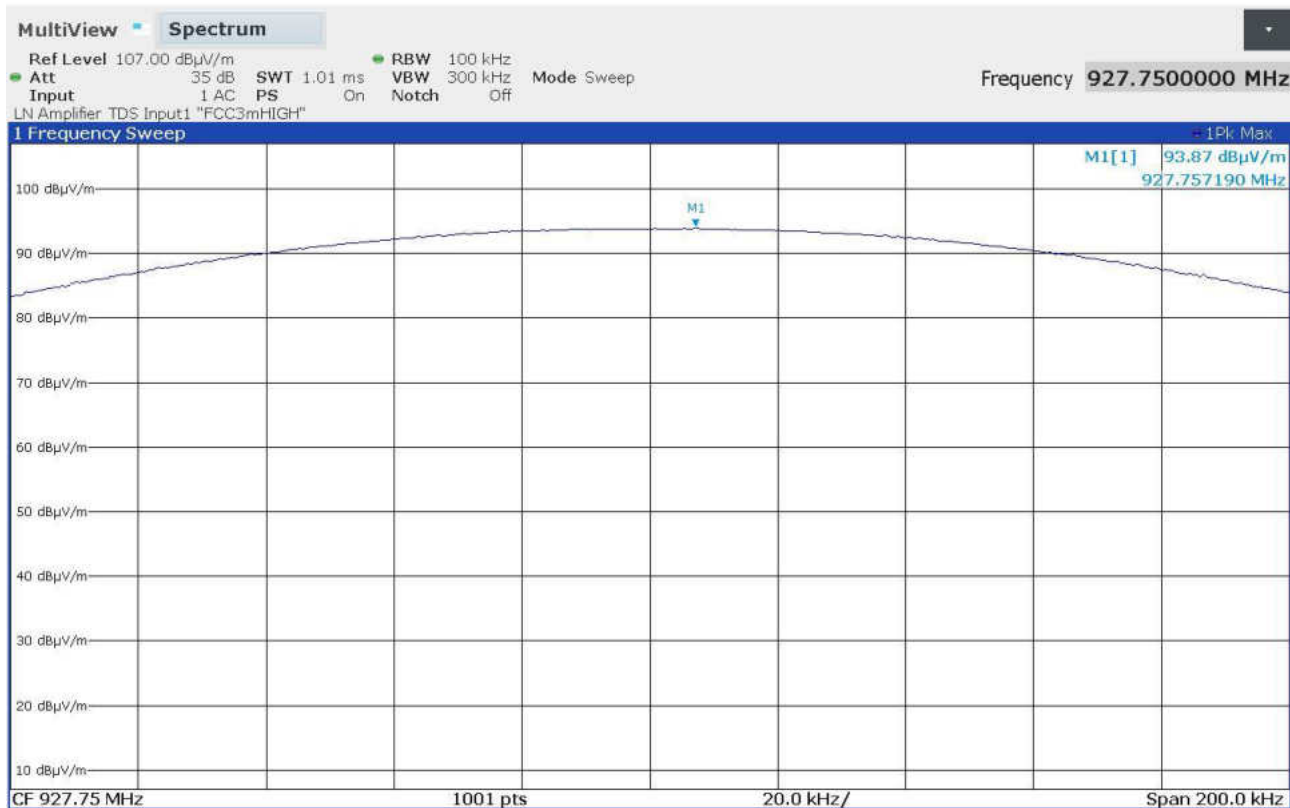
Panozzo 24078630



Panozzo 24078635



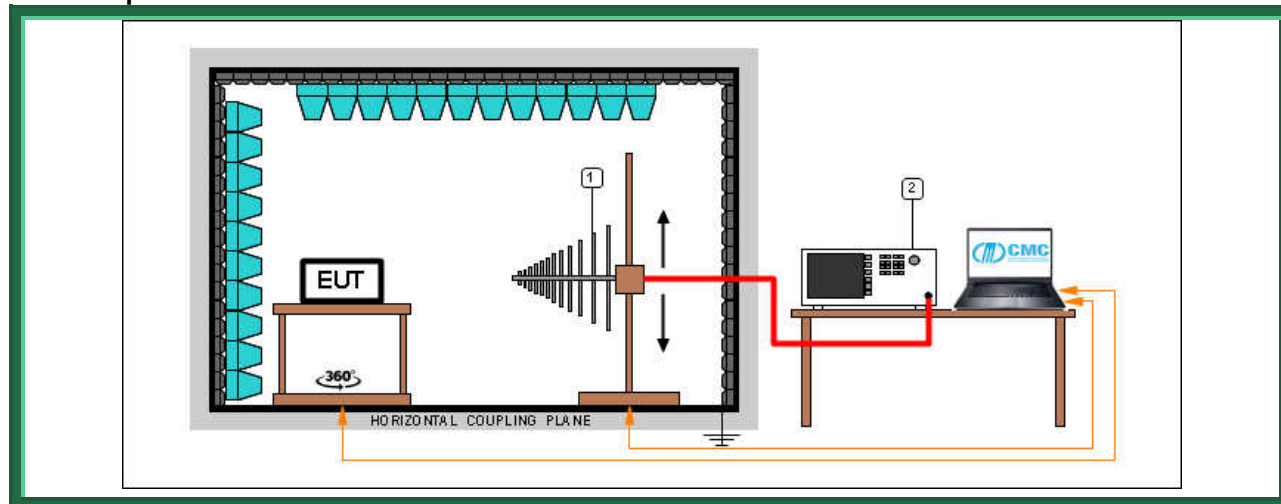
Panozzo 24078638



9.5 20 dB bandwidth

Tested by	C. Panozzo
Test date	05.09.2024
Test location (stand)	Semi-anechoic chamber (CMC A070)
Basic standard(s)	ANSI C63.10 cl. 7.8.7
Product standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.215 (c)
Test specification	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. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation

Test setup



Test setup PE004_03

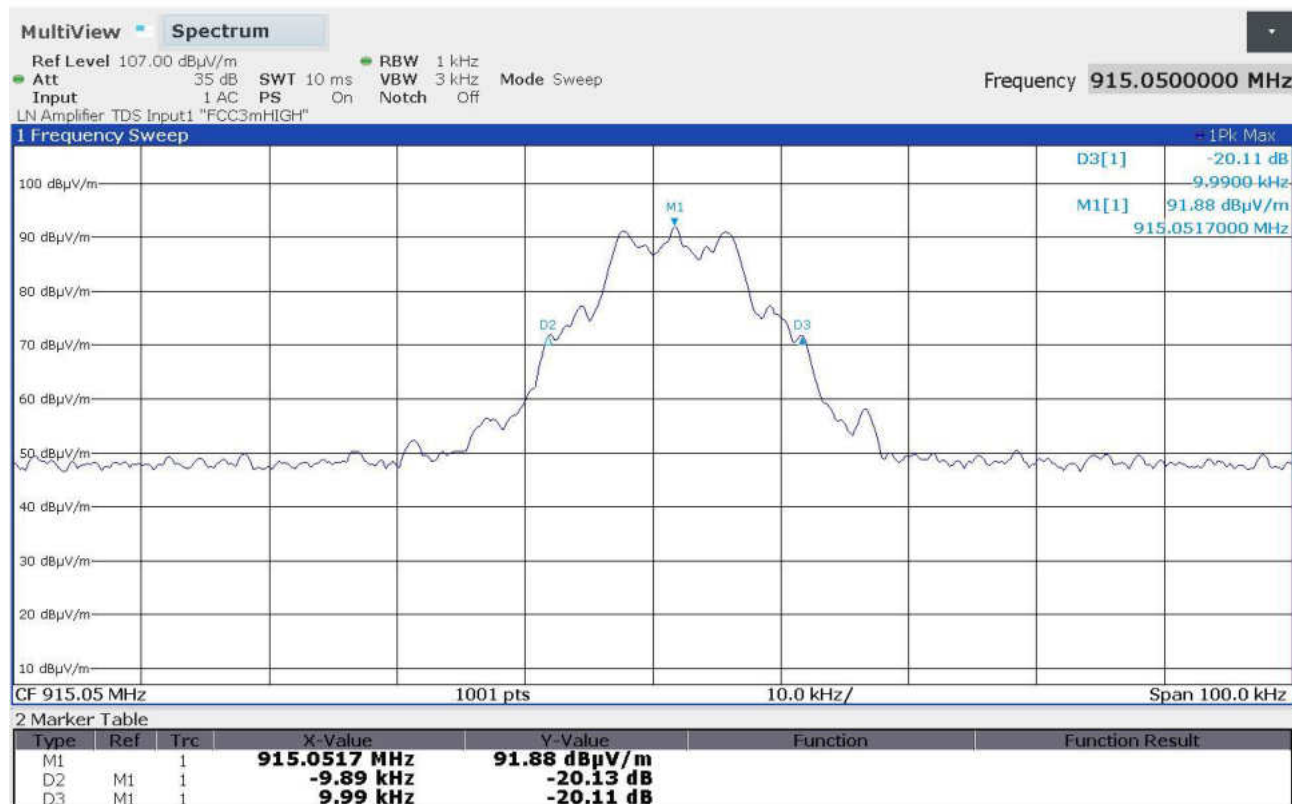
Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna	August 2022	August 2025

Result

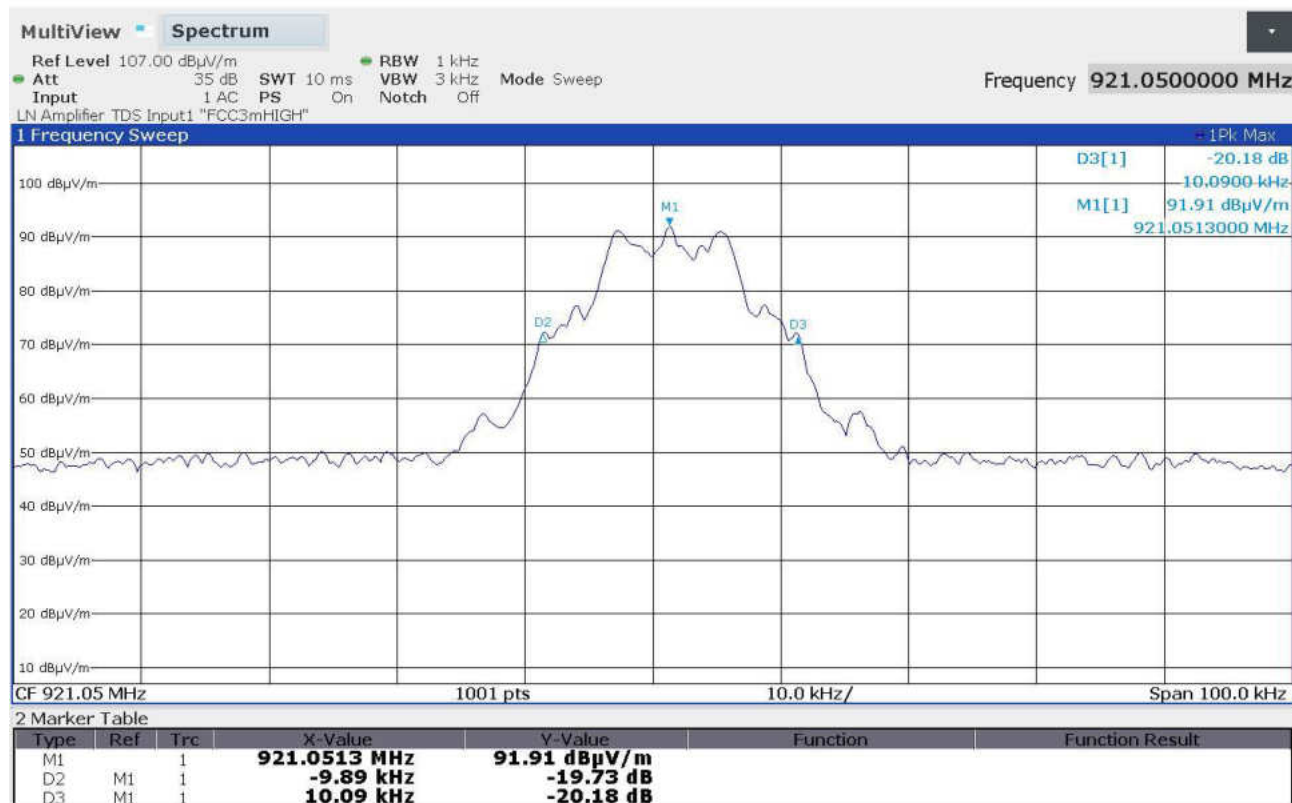
<i>Transmission frequency (MHz)</i>	<i>Graphs</i>	<i>20 dB bandwidth (MHz)</i>	<i>Limits (MHz)</i>	<i>Results</i>
915,05	G24078631	915,04 – 915,06	902 – 928	Complies
921,05	G24078636	921,04 – 921,06	902 – 928	Complies
927,75	G24078639	927,74 – 927,61	902 – 928	Complies

Graphs

Panozzo 24078631



Panozzo 24078636



Panozzo 24078639



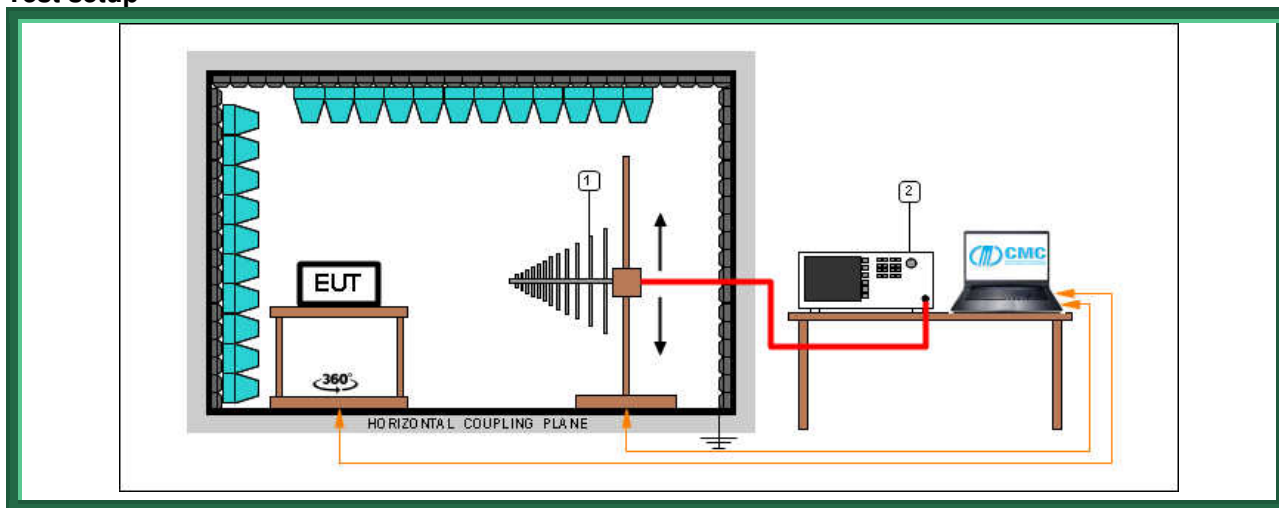
9.6 Band edge

Tested by	C. Panozzo
Test date	05.09.2024
Test location (stand)	Semi-anechoic chamber (CMC A070)
Product standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.249 (d)
Test specification	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation

Acceptance limits

Operation within the band 902 – 928 MHz

Test setup



Test setup PE004_03

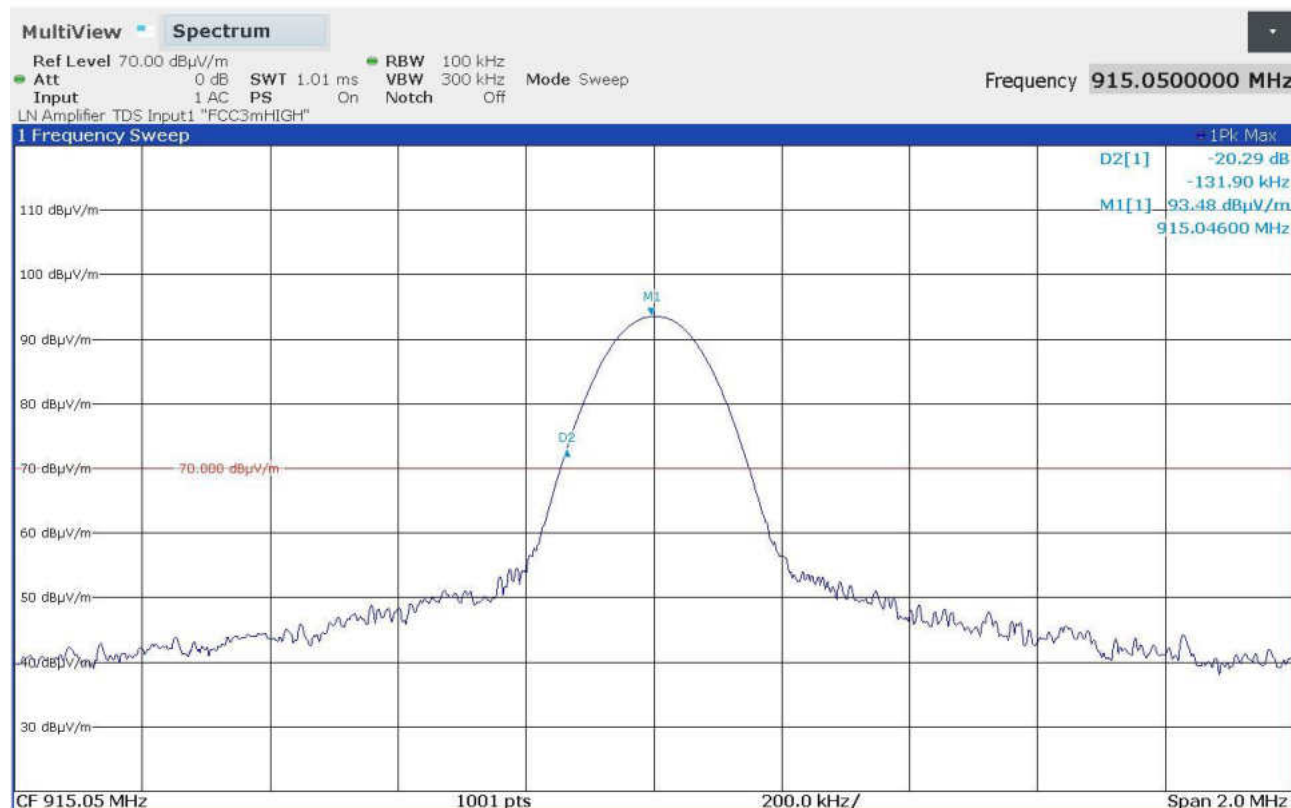
Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver	December 2023	December 2024
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna	August 2022	August 2025

Result

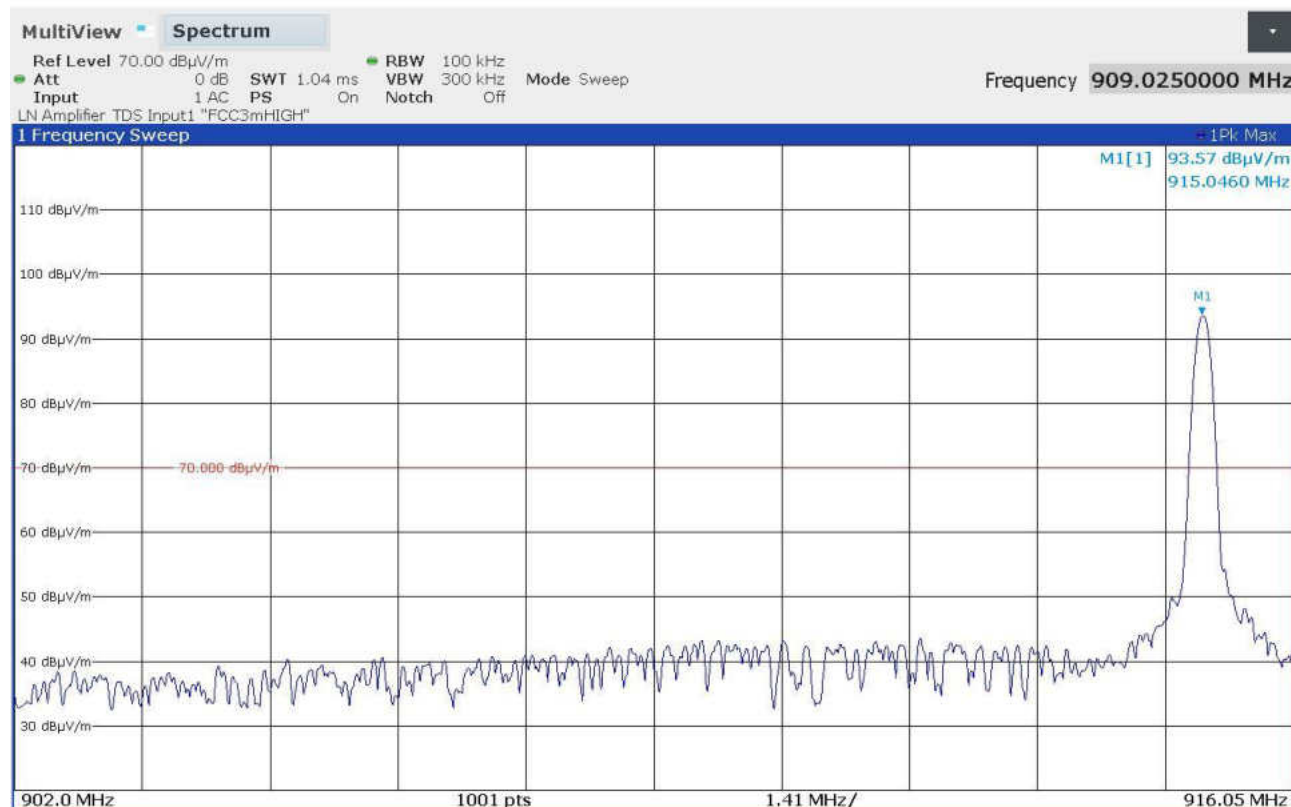
Transmission frequency (MHz)	Graph(s)	Results	
915,05	G24078633	F _L : 914,9141 MHz	Complies
	G24078634		
927,75	G24078641	F _H : 927,8882 MHz	Complies
	G24078642		

Graphs

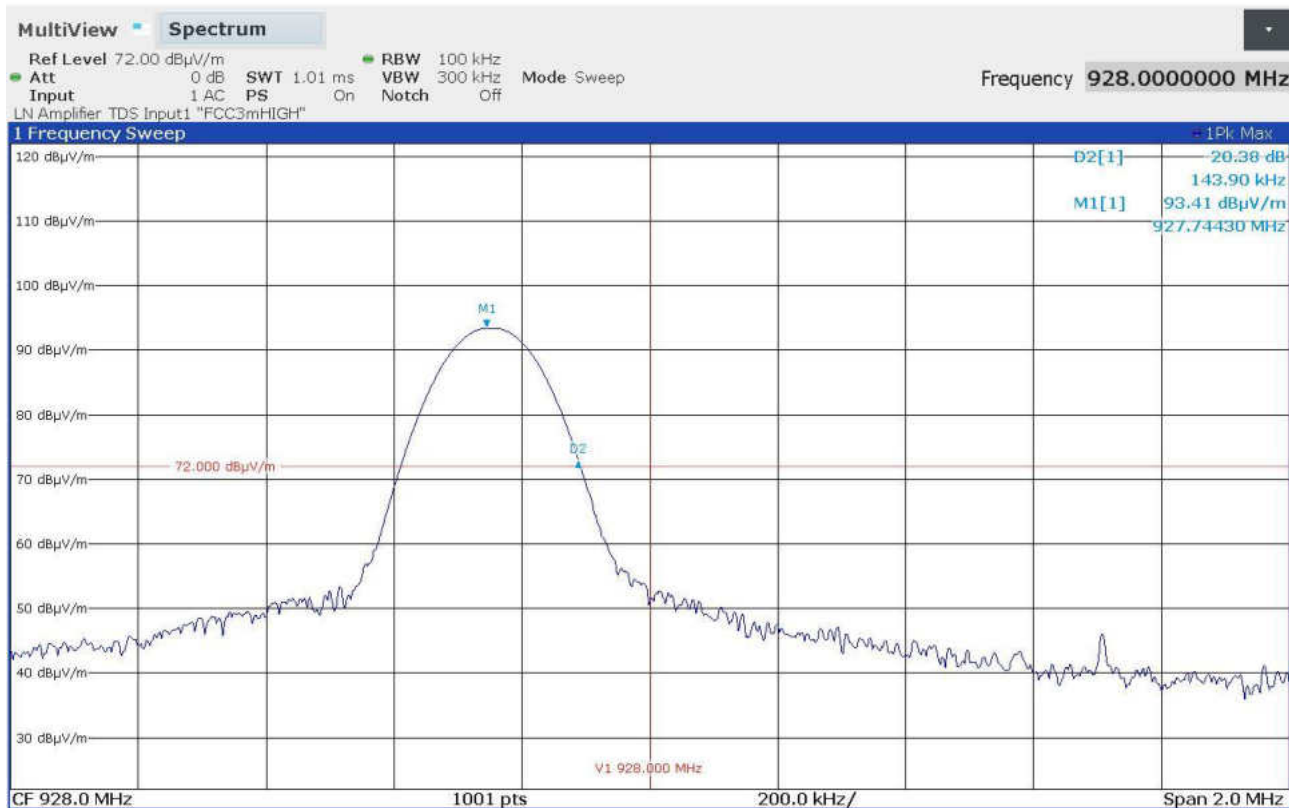
Panozzo 24078633



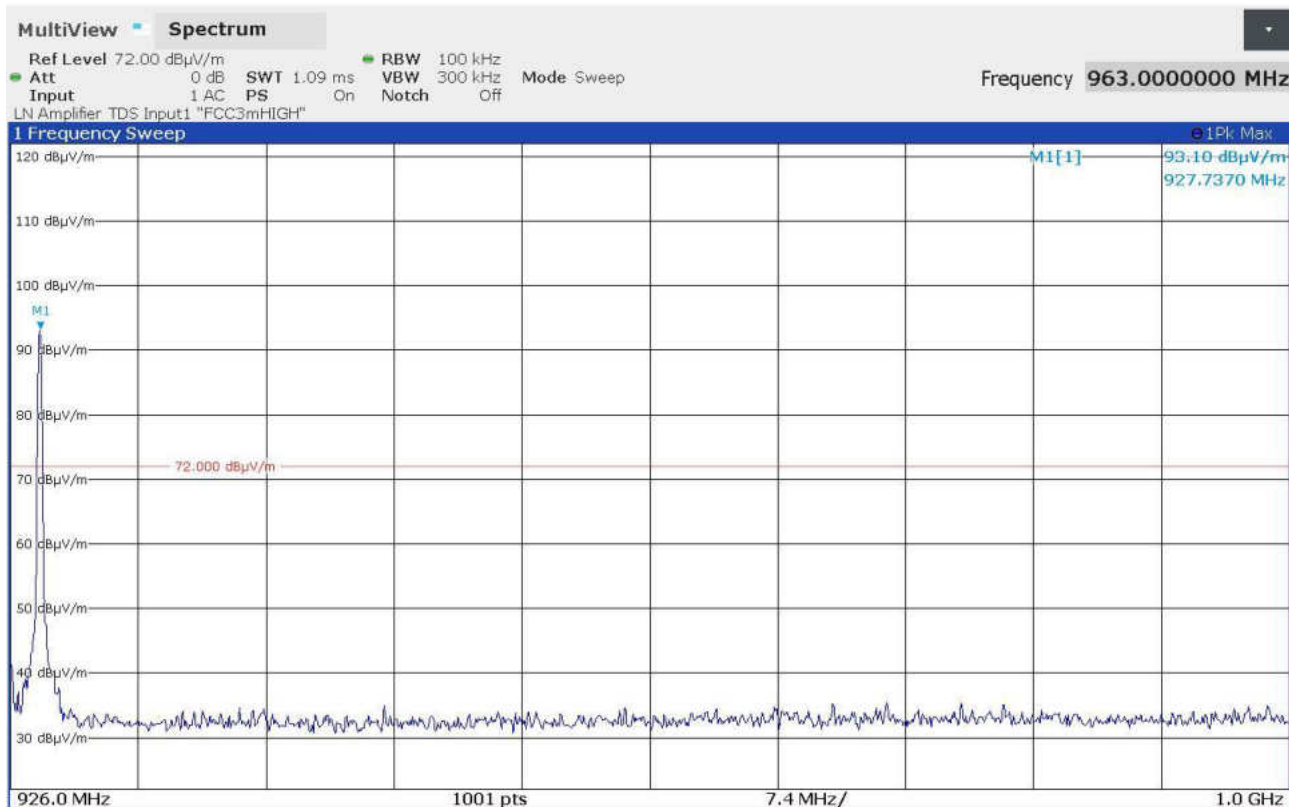
Panozzo 24078634



Panozzo 24078641



Panozzo 24078642



Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty			Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01			3,6 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			2,3 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_X1			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_X1			4,1 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_X2			4,7 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_X3			4,6 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_X4			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			3,40 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,26 dB		0,89 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,26 dB		0,47 V a 3V	1
AC Magnetic field	PE106_01	1,55 %		0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,21 %		18,6 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,21 %		1,86 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,11 %		0,21 V a 10V	1

Attachment 1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_X1	4,1 dB	1
Power/Spurious ERP 30-1000MHz d=10m/3m	PR001_X2+X3	4,8 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_X4+X5	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_X6	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 Oscillatory immunity test	PE113_01		2

Rev 24_01 date 03/02/2024

Note 1:

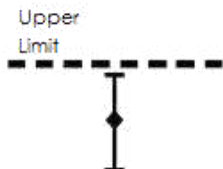
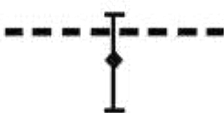
The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of p = 95%

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