



TEST REPORT

Nr. R23123901

Federal Communication Commission (FCC)

Report Reference No.	R23123901
Date of issue:	04.08.2023
Total number pages:	31
Customer name	Teleco Automation S.r.l.
Address	Via Calmaggione, 10/4 – 31100 Treviso (TV) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2022 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	2023-08
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	Transmitter NOON TVLINK/RTS
(*) Trademark	Teleco Automation
(*) Manufacturer	Teleco Automation S.r.l.
(*) Model / Type reference	RTNOON916NMRC
(*) FCC ID	P59RTNOON916
(*) Rating(s)	3 Vdc from battery
Report	
Tested by (name + signature)	M. Segalla 
Approved by (name + signature)	F. Marenda 

(*) information provided by the customer

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2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2022	--
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	

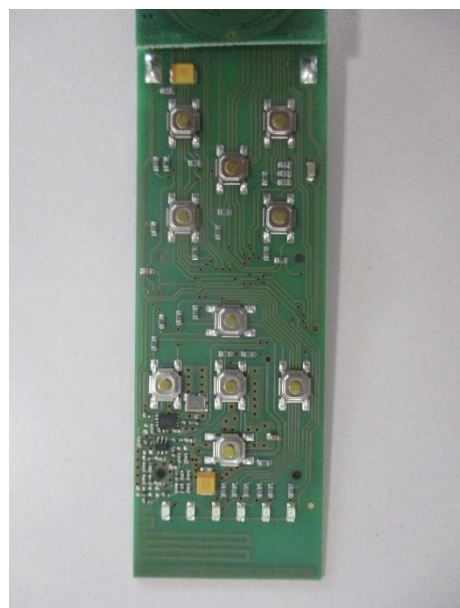
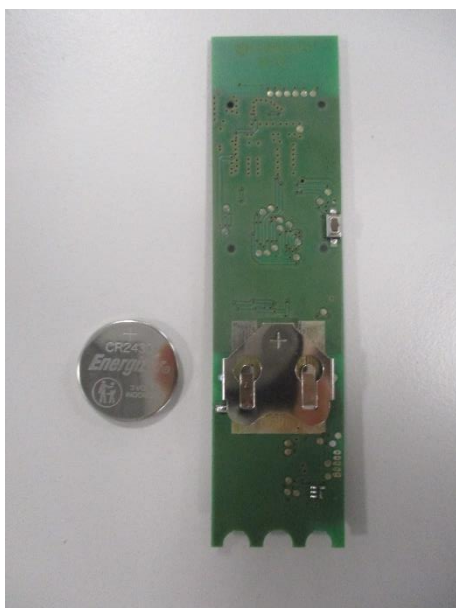
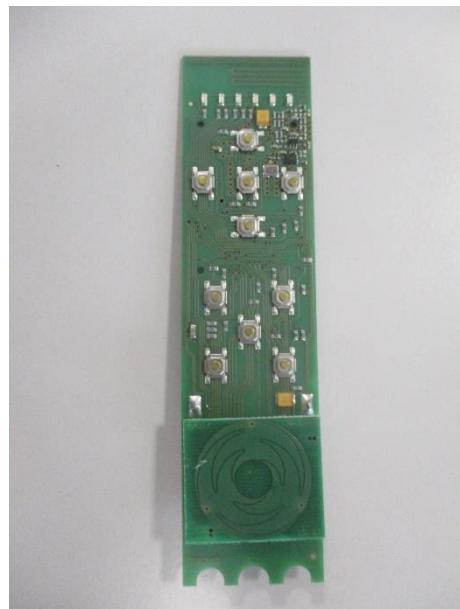
<i>Revision index</i>	<i>Date</i>	<i>Change history</i>
1.0	04.08.2023	--

Testing and sampling:	
Date of receipt of test item	20.06.2023
Testing start date	27.06.2023
Testing end date	13.07.2023
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 P230590
General remarks:	
<p>This report shall not be reproduced, except in full, without the written approval of DEKRA Testing and Certification S.r.l.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>“(see appended table)”: refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>Tests reported in this test report marked by wording: “Test not accredited by ACCREDIA” are not part of the ACCREDIA accreditation of this laboratory.</p>	
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:	
<input checked="" type="checkbox"/> Indicates that the listed condition, standard or equipment is applicable for this report. <input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.	

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

Description	Transmitter NOON TVLINK/RTS						
Model Number	RTNOON916NMRC						
FCC ID	P59RTNOON916						
Serial Number	--						
Brand name	Teleco Automation						
Frequency band	902 – 928 MHz						
Nominal frequency	Fc: 916 MHz						
Test power supply		Voltage and Frequency	Reference poles				
			N	L1	L2	L3	PE
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	DC: 3 V from battery					<input type="checkbox"/>
Software version	V1.0						
Type of equipment	<input checked="" type="checkbox"/> Transmitter unit <input type="checkbox"/> Receiver unit						
Type of station	<input type="checkbox"/> Portable station <input checked="" type="checkbox"/> Mobile station						
Test arrangements of EUT	<i>Intended operational arrangement(s) of EUT</i>			<i>Test arrangement (see basic standard)</i>			
	<input type="checkbox"/>	Table-top only			Table-top		
	<input type="checkbox"/>	Floor-standing only			Floor-standing		
	<input type="checkbox"/>	Can be floor-standing or table-top			Table-top		
	<input type="checkbox"/>	Rack mounted			In rack or table-top		
	<input checked="" type="checkbox"/>	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 47:2022			
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	N/A (+)
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

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

Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2022	--
ANSI C63.4:2014	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

8 Test conditions

8.1 General

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

9 Test results

9.1 Antenna requirements

Tested by	M. Segalla	
Test date	27.06.2023	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded</p>	
Antenna type	<input checked="" type="checkbox"/>	Integral antenna
	<input type="checkbox"/>	External antenna
Antenna gain	3,21 dBi	
External R.F. power amplifier.....	Not Present	

9.2 Radiated emissions and spurious emission

Tested by	M. Segalla	
Test date	26.06.2023	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.209 and 15.249 (a) and (d) ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Test set-up description.....	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description.....	--	
Test method applied	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

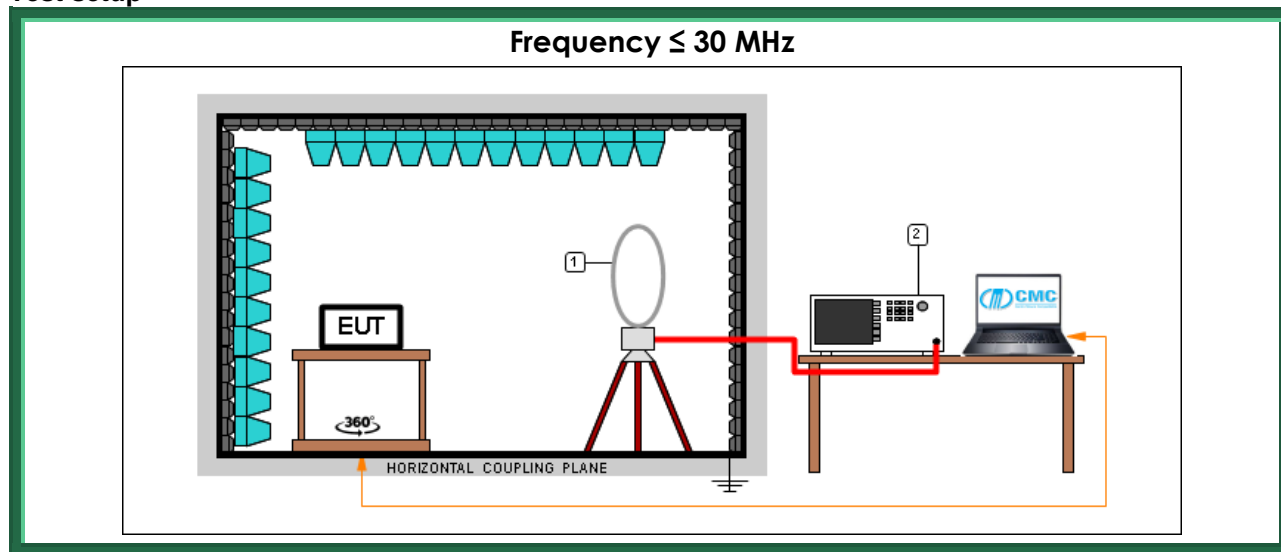
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775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

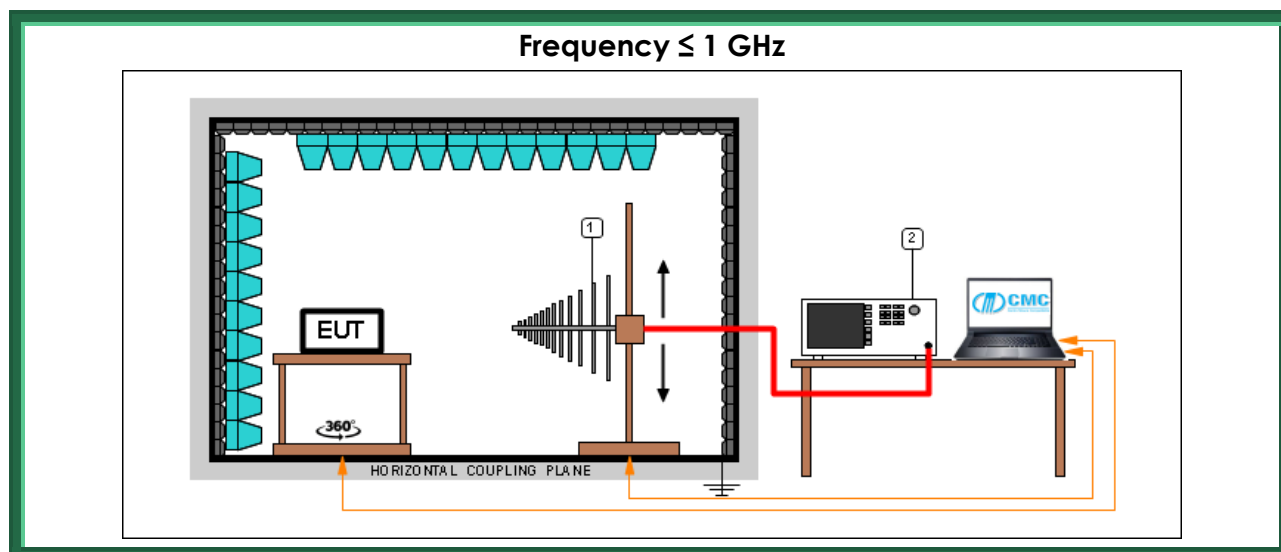
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S127	Schaffner	HLA6120	1191	Loop Antenna 9kHz - 30MHz

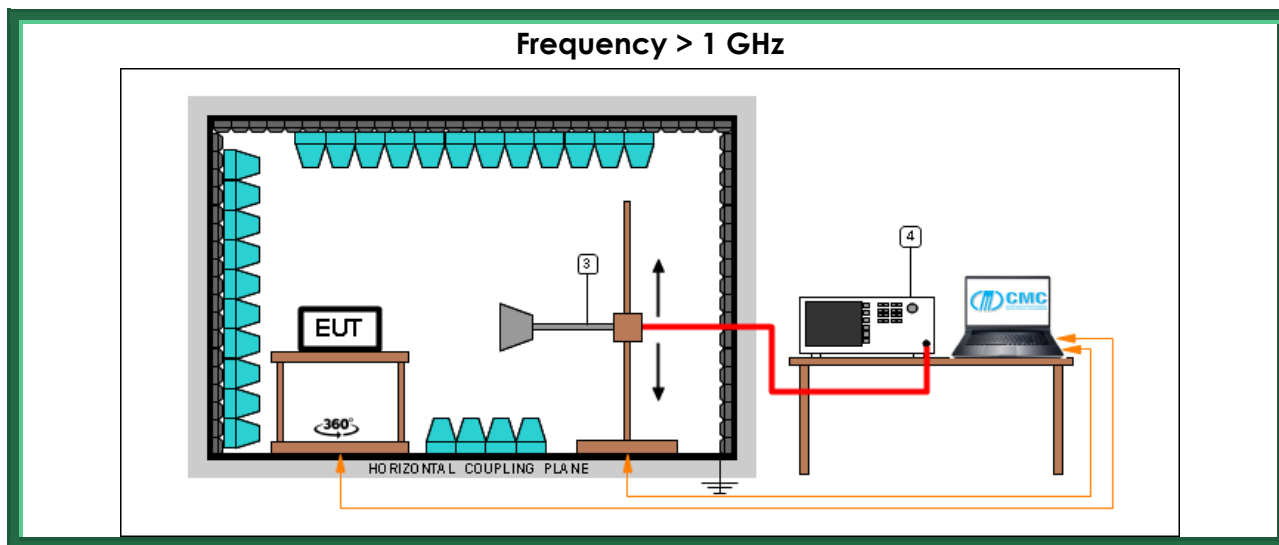


Test setup PE004_02

Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	831	Broadband Antenna

Test setup PE004_03

Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna



Test setup PE004_04

Nr.	Id. Number	Manufacturer	Model	Serial number	Description
4	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
3	CMC S108	Emco	3115	9811-5622	Waveguide antenna

Test setup PE004_05

Nr.	Id. Number	Manufacturer	Model	Serial number	Description
4	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
3	CMC S290	Schwarzbeck	BBHA 9170	733	Horn Antenna

Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
H	30 – 300	G23123906	--	P
V	30 – 300	G23123907	--	P
V	300 – 1000	G23123908	--	P
H	300 – 1000	G23123909	--	P
V	1000 – 10000	G23123910	--	P
H	1000 – 10000	G23123912	--	P
Loop	0,009 – 30	G23123913	--	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.

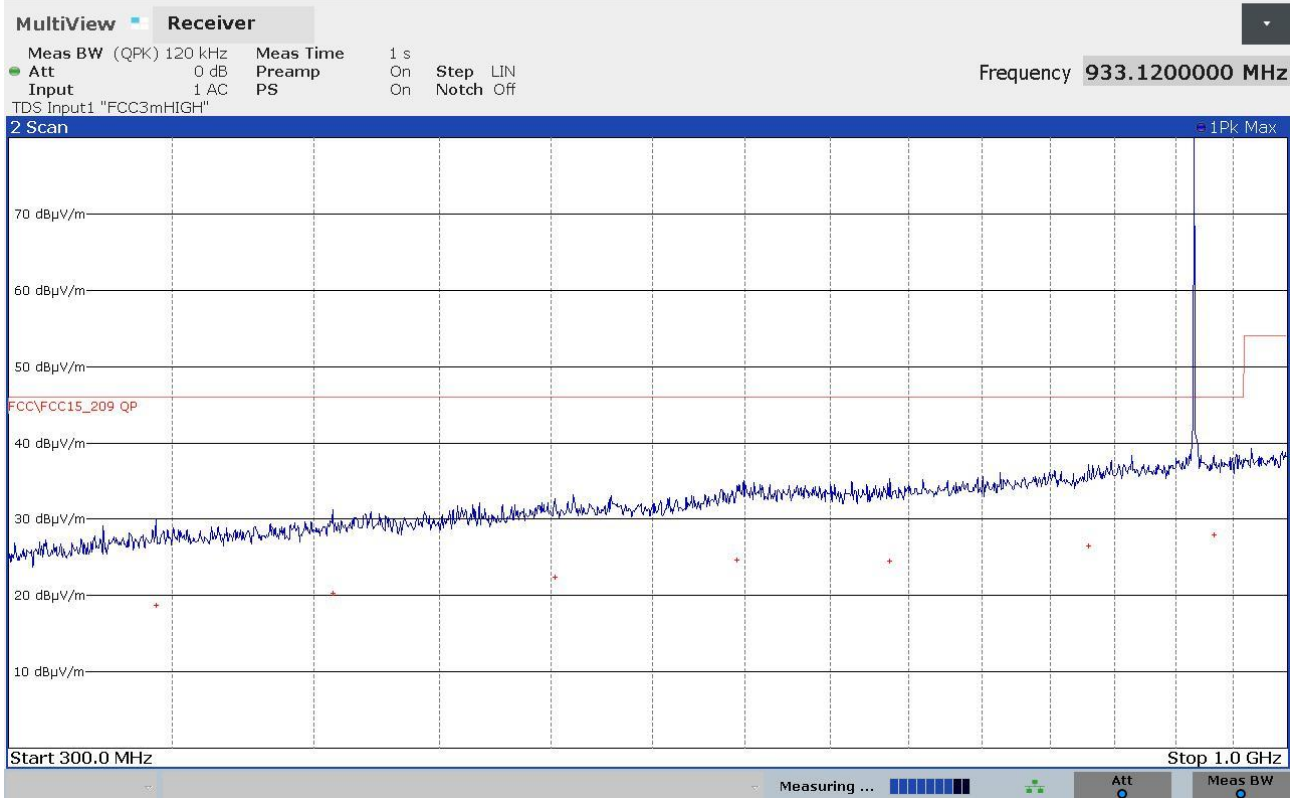
Graphs Legend

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

Segalla 23123906

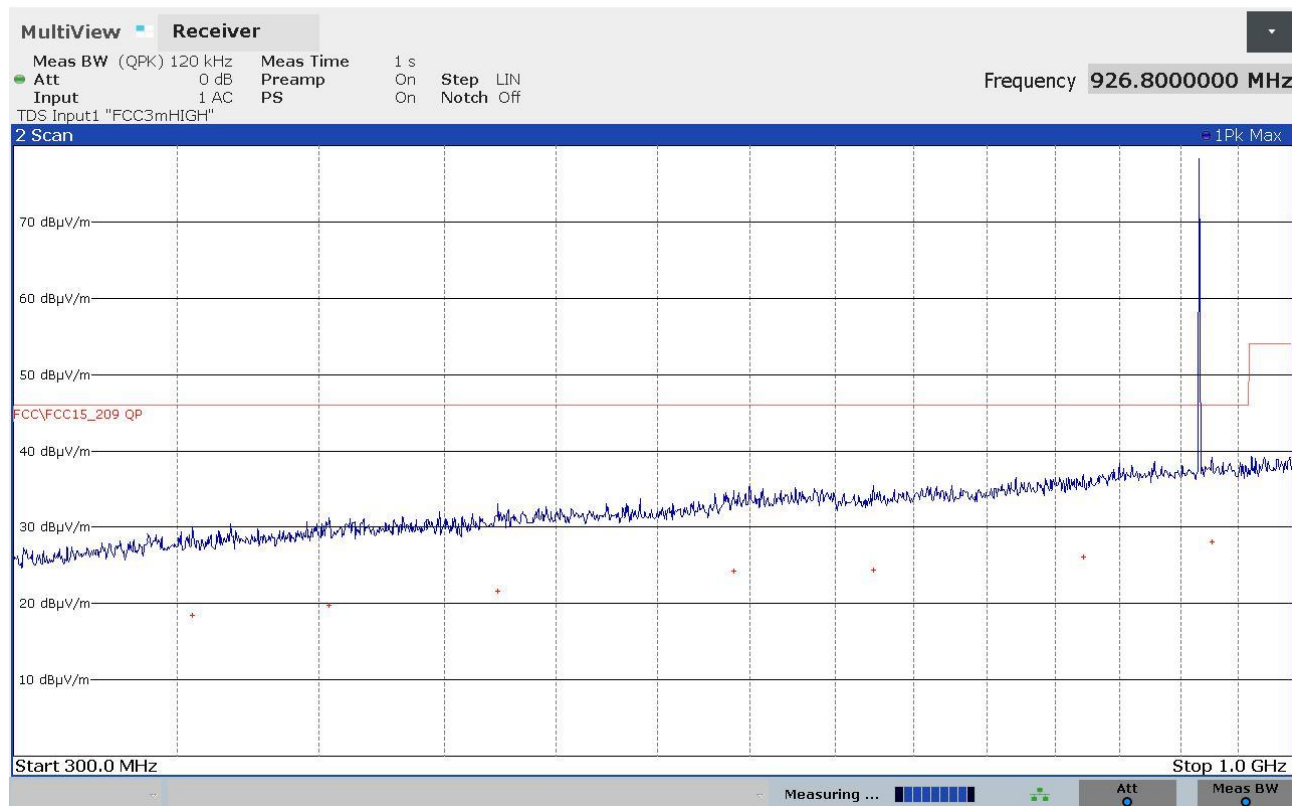


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
344680000	+18,65	-27,37
407120000	+20,30	-25,72
501800000	+22,38	-23,64
595800000	+24,60	-21,42
687760000	+24,50	-21,52
829040000	+26,54	-19,48
933120000	+27,93	-18,09

23123906_2

Segalla 23123907

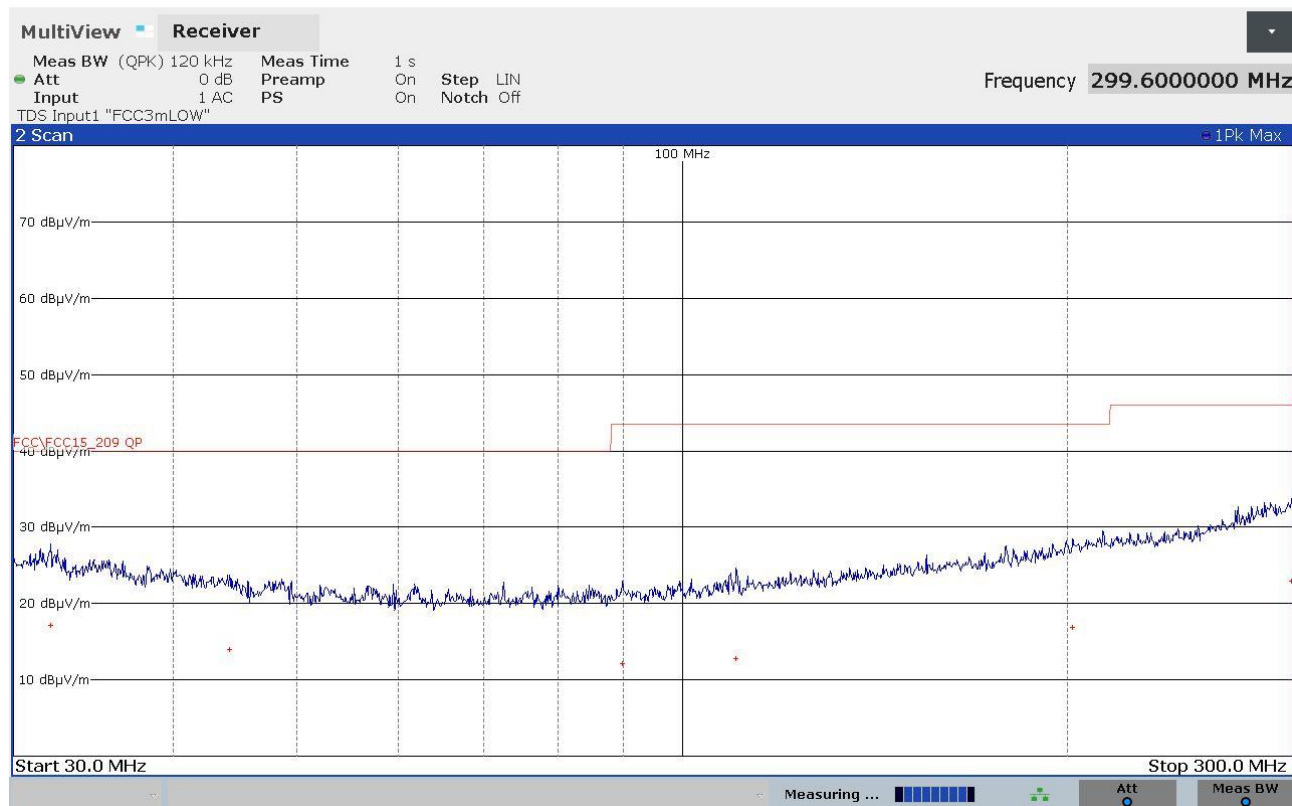


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
354960000	+18,45	-27,57
403760000	+19,82	-26,20
473240000	+21,57	-24,45
591000000	+24,19	-21,83
674040000	+24,41	-21,61
821120000	+26,09	-19,93
926800000	+28,01	-18,01

23123907_2

Segalla 23123908

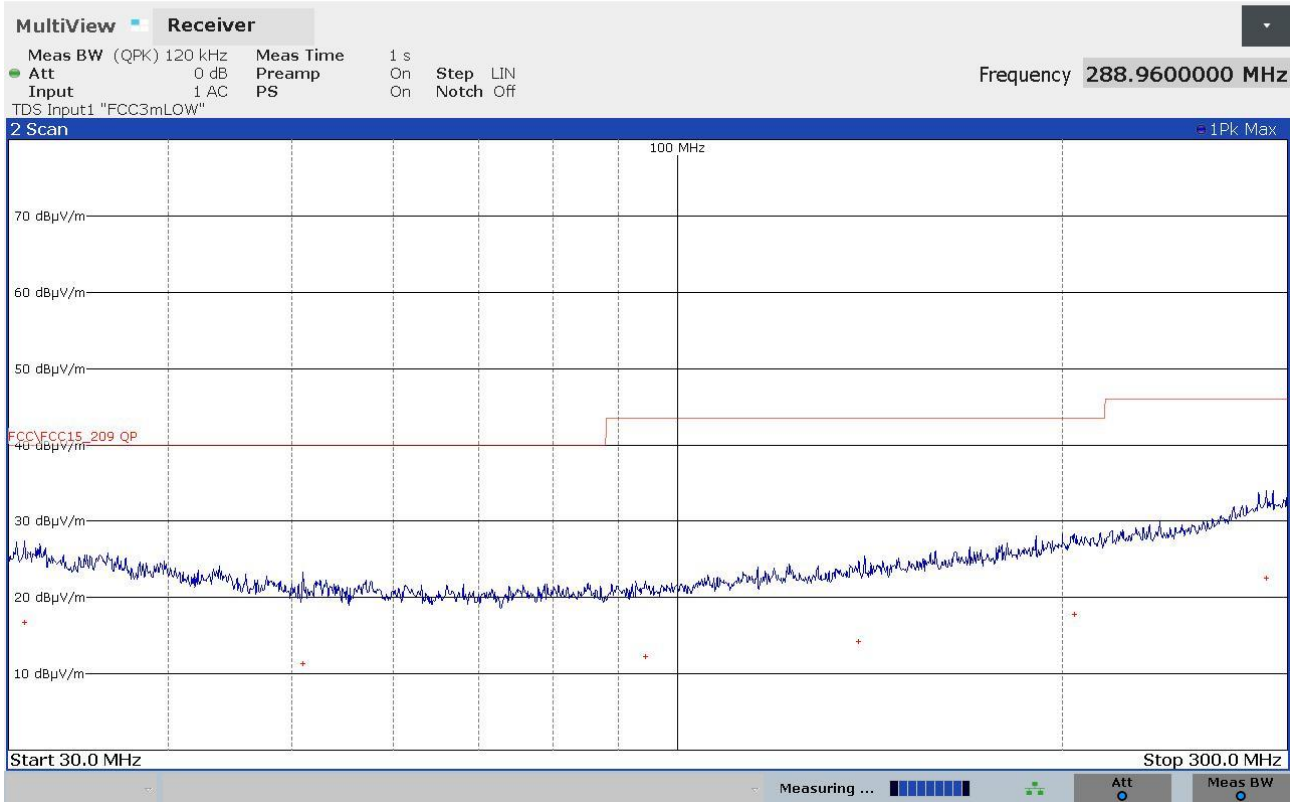


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
32080000	+17,12	-22,88
44280000	+13,93	-26,07
89840000	+12,08	-31,44
110200000	+12,75	-30,77
202040000	+16,87	-26,65
299600000	+22,91	-23,11

23123908_2

Segalla 23123909

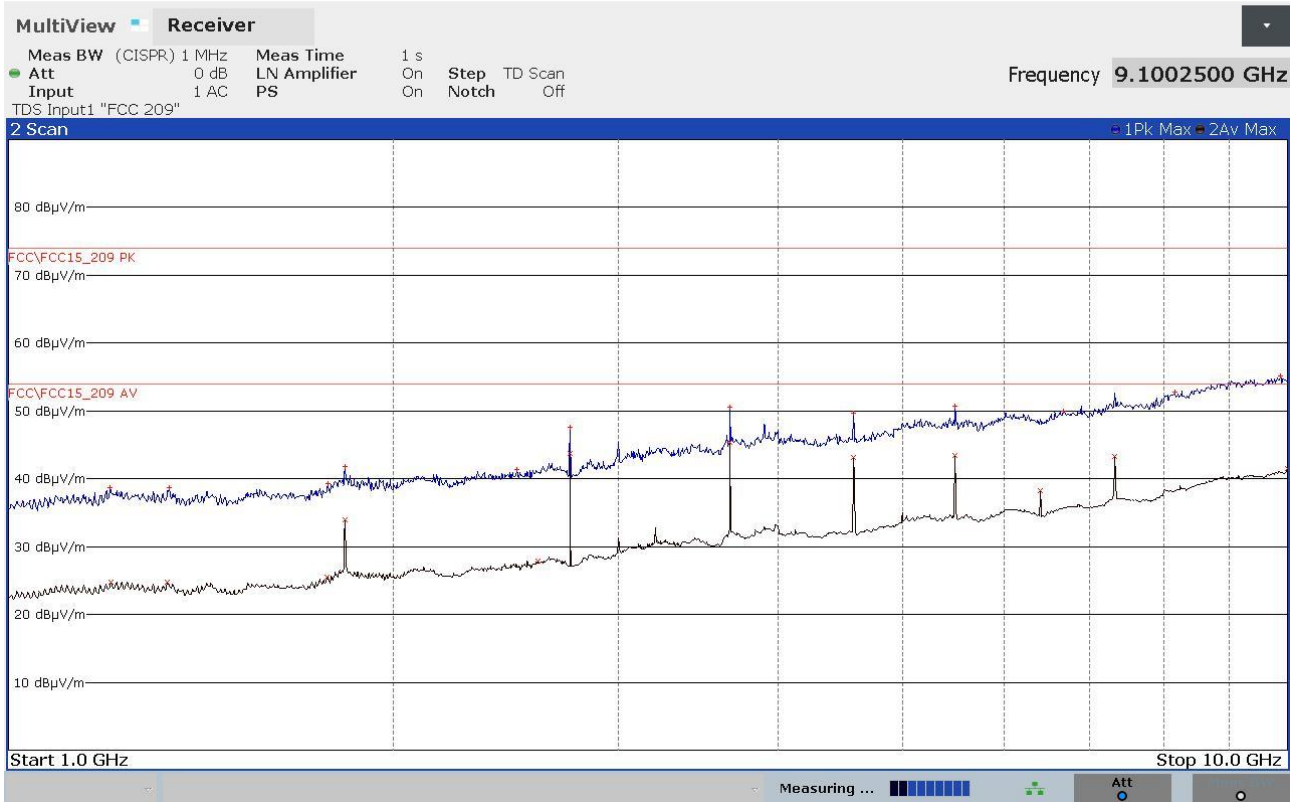


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
30880000	+16,73	-23,27
50960000	+11,30	-28,70
94400000	+12,22	-31,30
138680000	+14,19	-29,33
204280000	+17,79	-25,73
288960000	+22,53	-23,49

23123909_2

Segalla 23123910

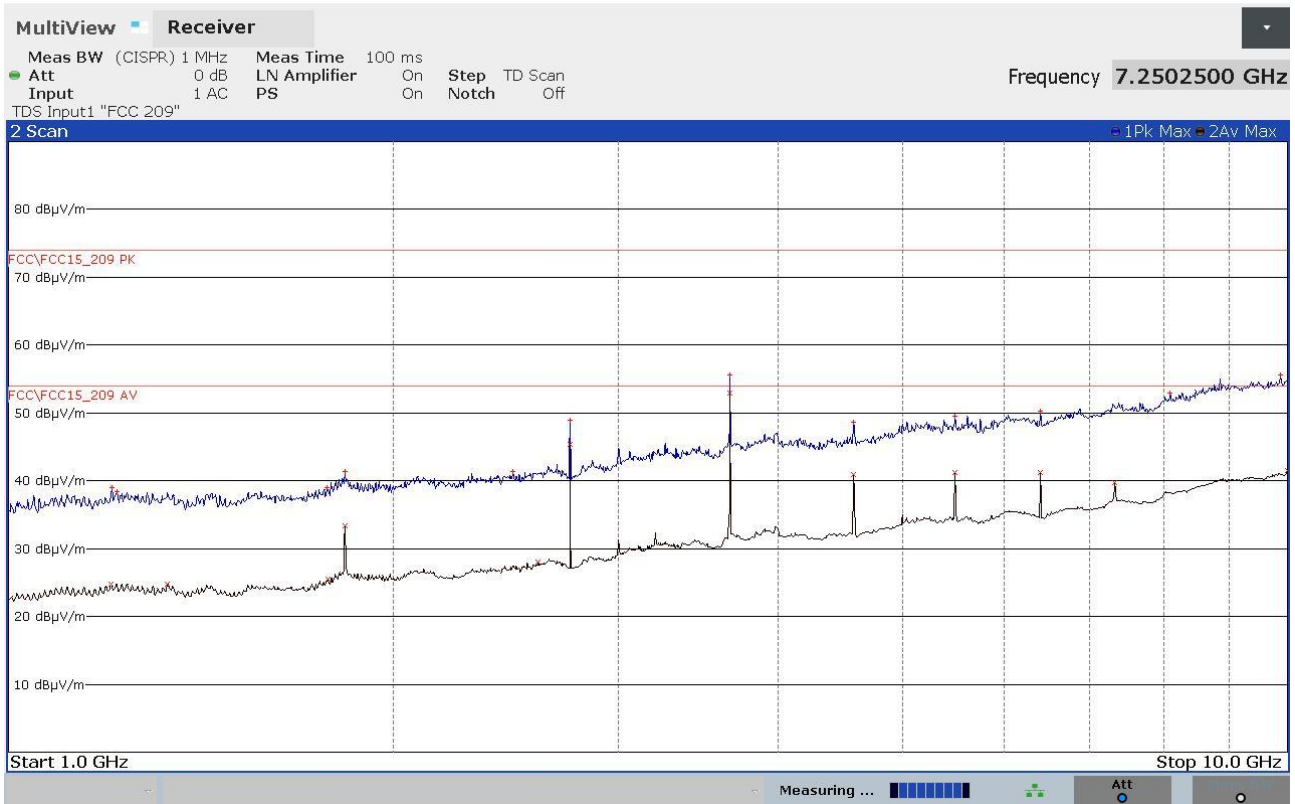


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1201000000	+38,65	-35,33	1202750000	+24,73	-29,25
1335750000	+38,63	-35,35	1331500000	+24,79	-29,19
1776750000	+39,30	-34,68	1775750000	+25,53	-28,45
1832000000	+41,74	-32,24	1832000000	+33,97	-20,01
2498000000	+41,30	-32,68	2595000000	+27,92	-26,06
2748000000	+47,63	-26,35	2748000000	+43,71	-10,27
3664000000	+50,53	-23,45	3664000000	+45,41	-8,57
4580000000	+49,62	-24,36	4580000000	+43,10	-10,88
5496000000	+50,76	-23,22	5496000000	+43,37	-10,61
6677500000	+49,99	-23,99	6411750000	+38,29	-15,69
8170000000	+52,75	-21,23	7327750000	+43,34	-10,64
9879500000	+55,13	-18,85	10000000000	+41,47	-12,51

23123910_2

Segalla 23123912

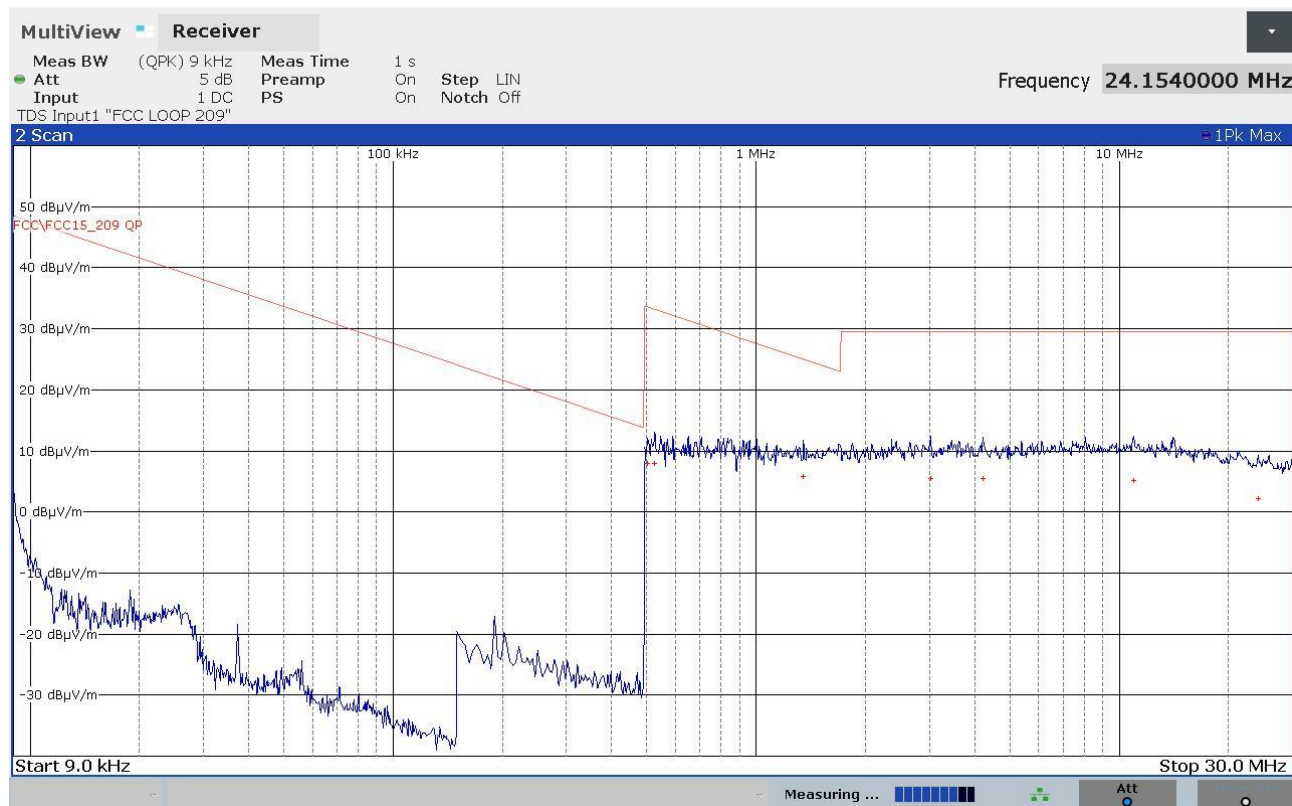


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1204750000	+38,99	-34,99	1202500000	+24,74	-29,24
1215000000	+38,34	-35,64	1331750000	+24,78	-29,20
1774000000	+39,01	-34,97	1776000000	+25,54	-28,44
1832000000	+41,38	-32,60	1832000000	+33,38	-20,60
2481000000	+41,34	-32,64	2595000000	+27,95	-26,03
2748000000	+48,91	-25,07	2748000000	+45,31	-8,67
3663750000	+55,55	-18,43	3664000000	+52,89	-1,09
4580000000	+48,59	-25,39	4580000000	+40,85	-13,13
5496000000	+49,47	-24,51	5496000000	+41,22	-12,76
6412000000	+50,22	-23,76	6411750000	+41,21	-12,77
8098250000	+52,86	-21,12	7327750000	+39,81	-14,17
9874000000	+55,59	-18,39	10000000000	+41,46	-12,52

23123912_2

Segalla 23123913



FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
502000	+7,98	-25,61
526000	+7,99	-25,19
1350000	+5,87	-19,13
3026000	+5,48	-24,06
4210000	+5,39	-24,15
10970000	+5,17	-24,37
24154000	+2,18	-27,36

23123913_2

9.3 Peak Output Power

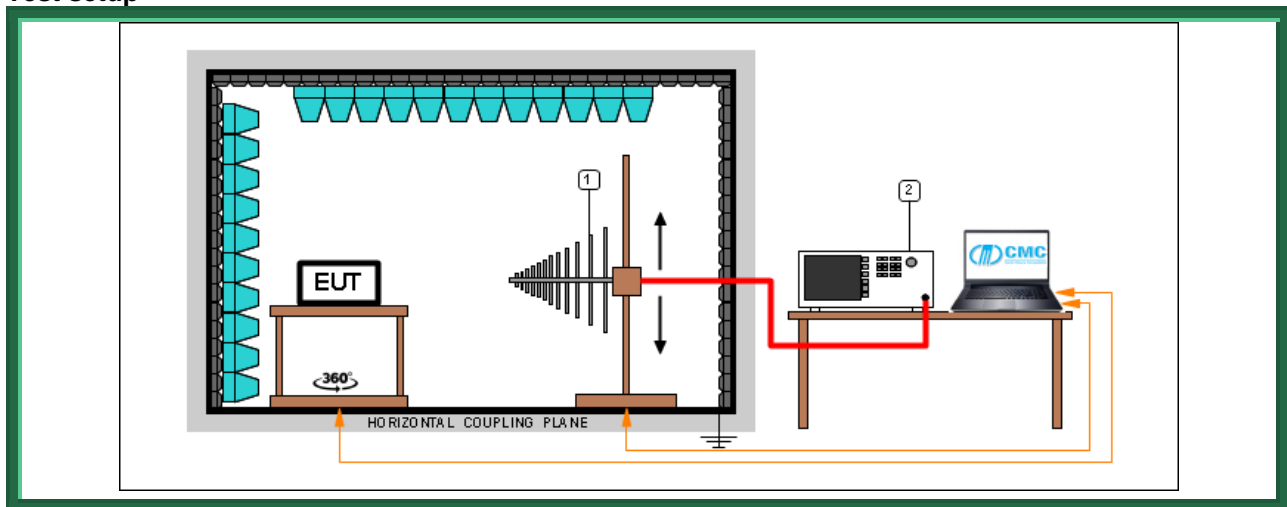
Tested by	M. Segalla
Test date	26.06.2023
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.209 and 249
Supplementary test set-up description.....	EUT – antenna distance: 3 m
Supplementary information	--

Acceptance limits

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

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

Test setup



Test setup PE004_03

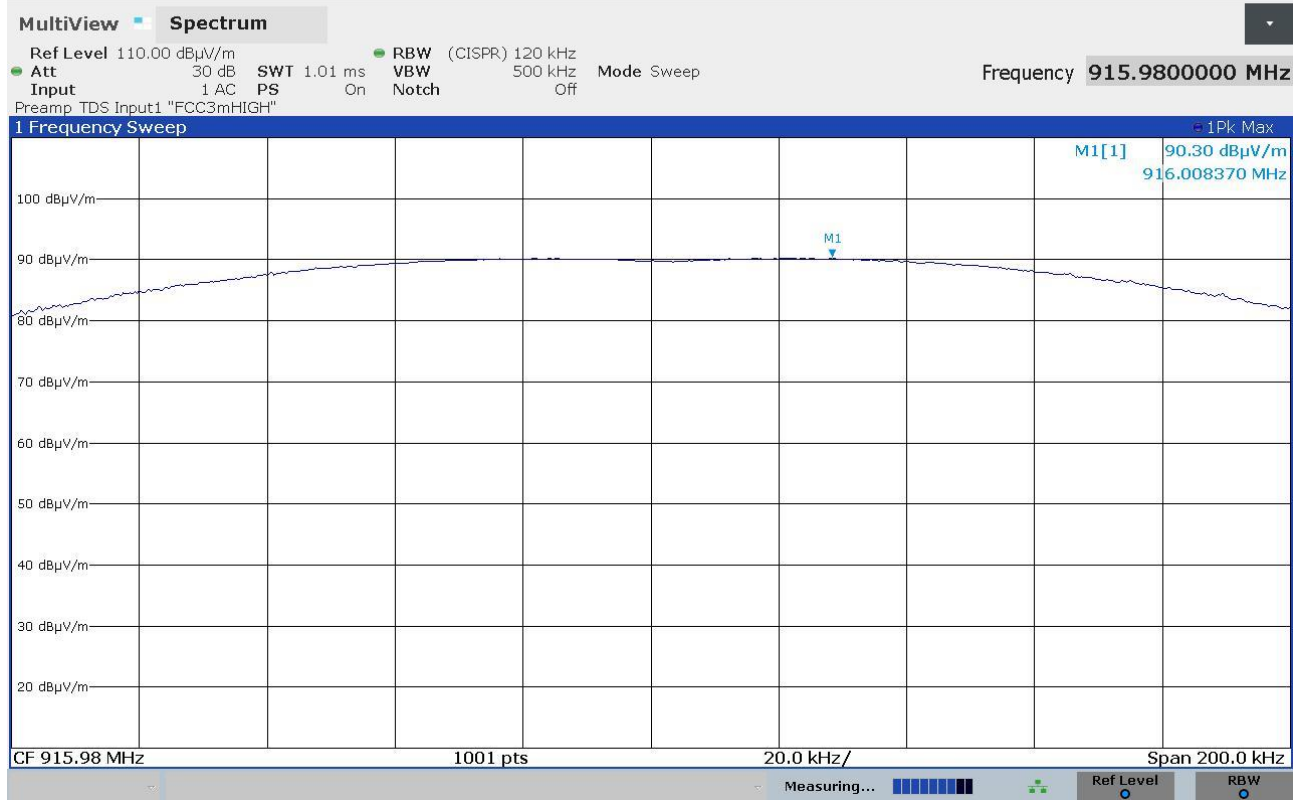
Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna

Result

Channel (MHz)	Polarization	Graphs	Measured level (dB μ V/m)	Limit (dB μ V/m)
916,00	Worst case	G23123903	90,30	94,00

Graphs

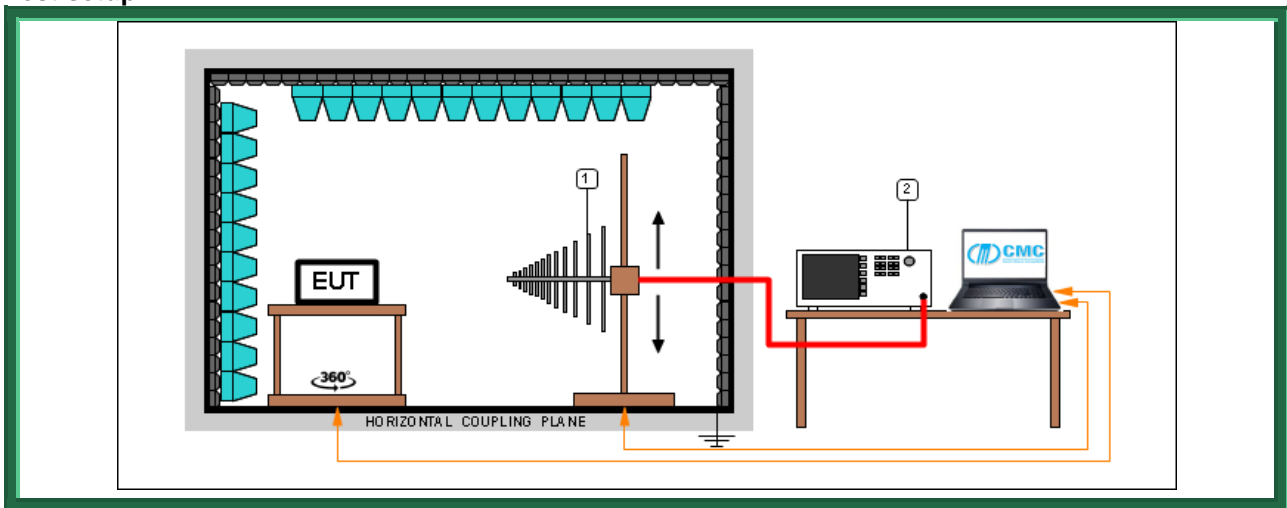
Segalla 23123903



9.4 20 dB bandwidth

Tested by	M. Segalla
Test date	26.06.2023
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.215 (c) ANSI C63.10 cl. 7.8.7
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

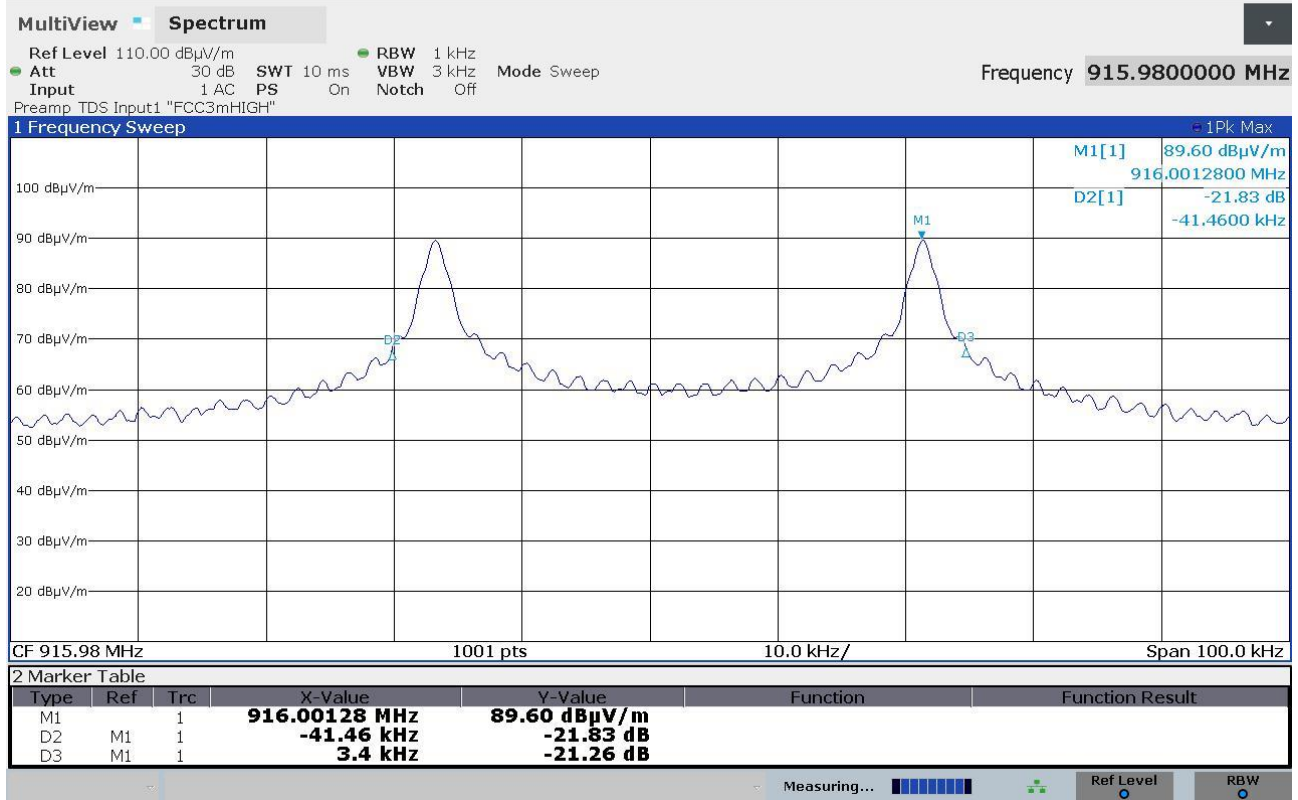
Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna

Result

<i>Channel (MHz)</i>	<i>Graphs</i>	<i>20 dB bandwidth (MHz)</i>	<i>Limits (MHz)</i>	<i>Results</i>
916,00	G23123901	915,960 – 916,005	902 – 928	Complies

Graphs

Segalla 23123901



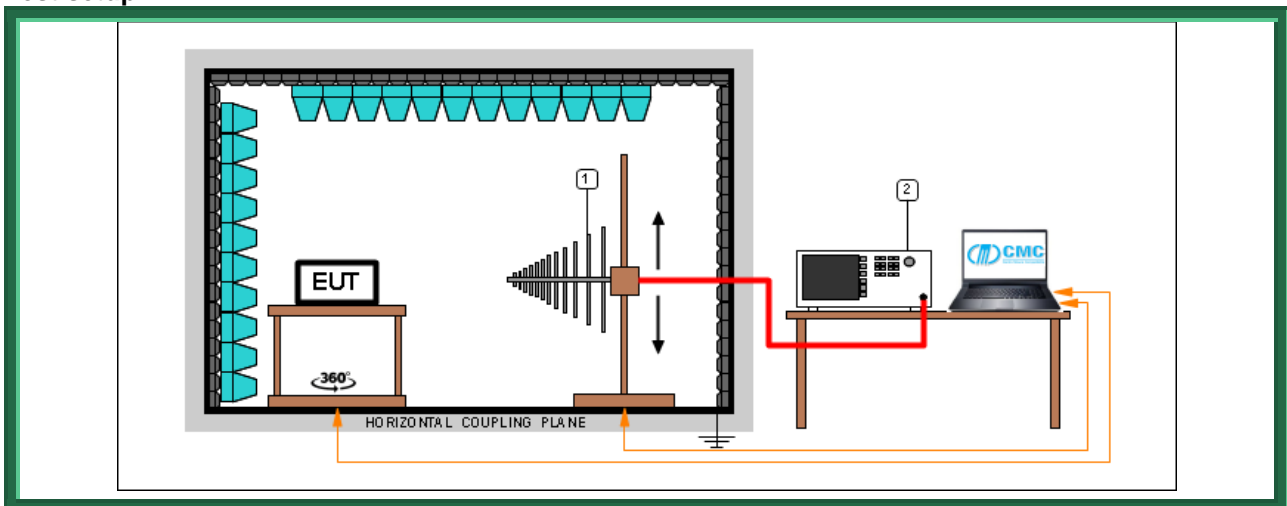
9.5 Band edge

Tested by	M. Segalla
Test date	26.06.2023
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards.....	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
Supplementary information	--

Acceptance limits

Operation within the band 902 – 928 MHz

Test setup



Test setup PE004_03

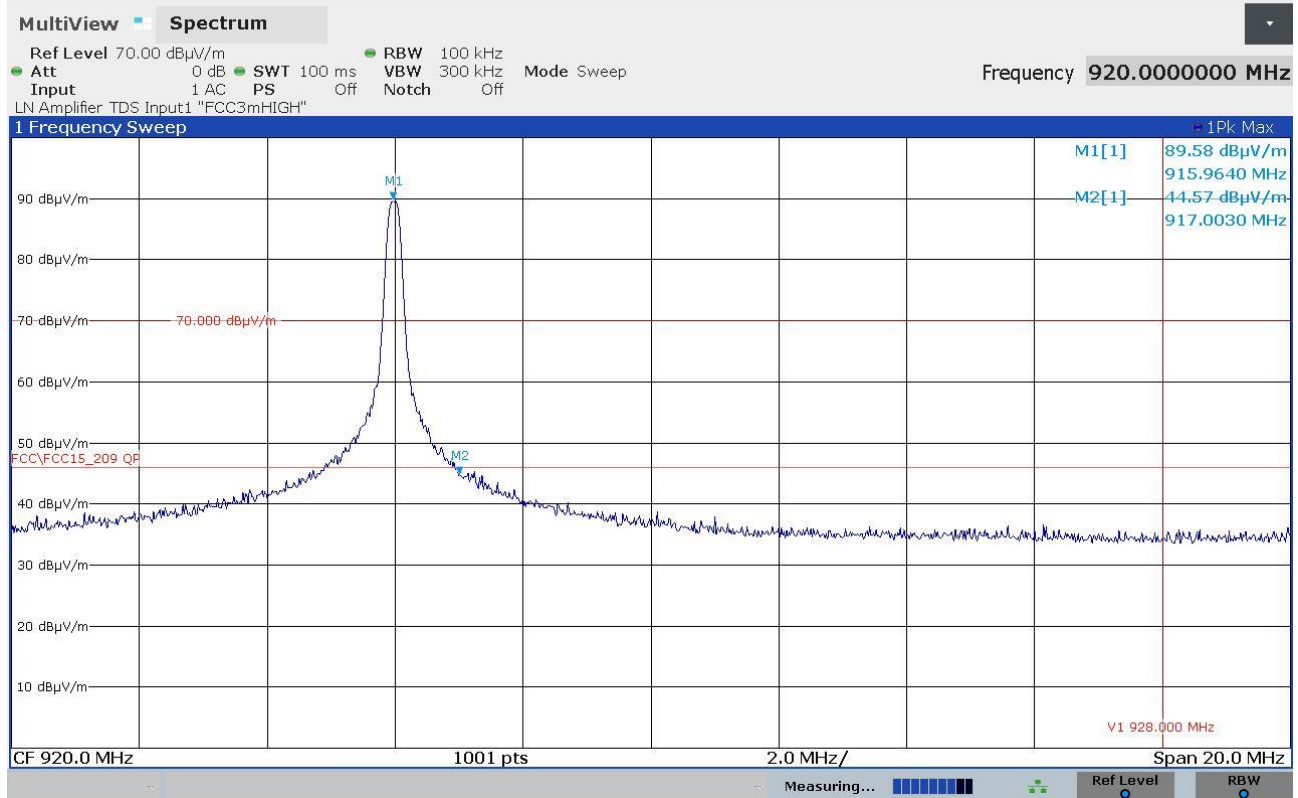
Nr.	Id. Number	Manufacturer	Model	Serial number	Description
2	CMC S353	Rohde & Schwarz	ESW26	101492	Emi Test Receiver
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna

Result

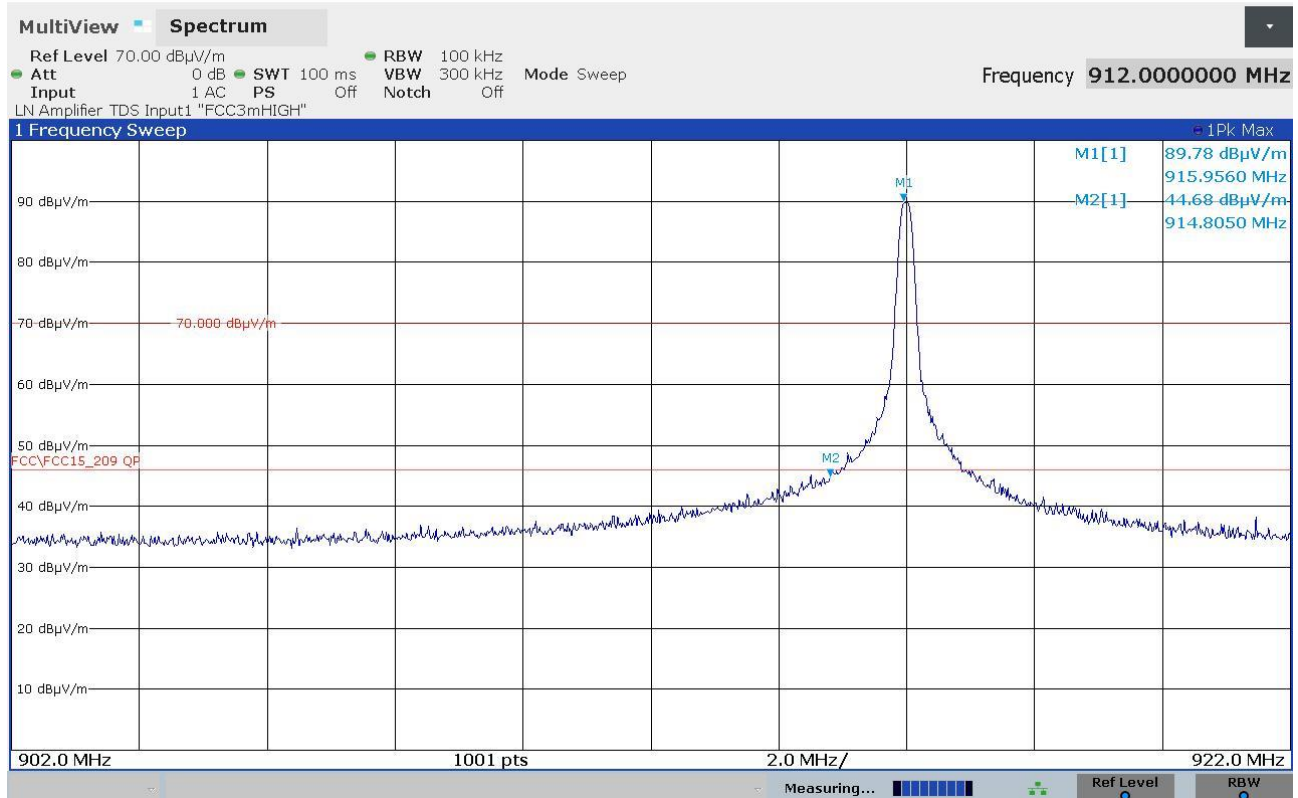
Channel (MHz)	Graph(s)	Results	
916,00	G23123905	FL: 914,805 MHz	Complies
916,00	G23123904	FH: 917,003 MHz	Complies

Graphs

Segalla 23123904



Segalla 23123905



Attachment 1
Measurement uncertainty

<i>Test</i>	<i>Test Setup</i>	<i>Expanded uncertainty</i>	<i>Note</i>
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	$< 1 \times 10^{-7}$	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	$< 1 \times 10^{-7}$	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_23_01 date 20/03/2023			

Note 1:

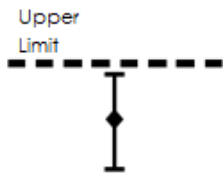
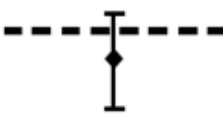

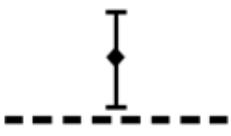
The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of $p = 95\%$

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

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

Quality manual references – Internal procedure

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