

## TEST REPORT

### Nr. R22157601

### Federal Communication Commission (FCC)

<b>Report Reference No.</b> .....	R22157601
Date of issue: .....	10.10.2022
Total number pages: .....	85
<b>Customer name</b> .....	Autec S.r.l.
Address .....	Via Pomaroli, 65 – 36030 Caldogno (VI) – Italy
<b>Test specification:</b>	
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
<b>Test Report Form No.</b> .....	15-247_HoppingDEKRA
Test Report Form(s) Originator ...:	DEKRA Testing and Certification S.r.l.
Master TRF .....	2022-10
<b>General disclaimer:</b>	
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.	
<b>(*) Test item description</b> .....	Transceiver unit
(*) Trademark .....	Autec
(*) Manufacturer .....	Autec S.r.l.
(*) Model / Type reference .....	Model AXP Type NP055
(*) FCC ID .....	OQA-AXPNP055
(*) Rating(s) .....	12-24 Vdc
<b>Report</b>	
Tested by (name + signature) .....	M. Segalla .....
Approved by (name + signature) .....	F. Marenda .....

(\*) information provided by the customer

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

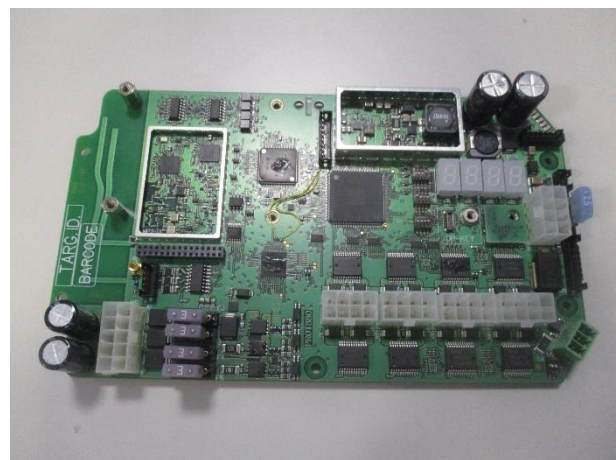
<i>Revision index</i>	<i>Date</i>	<i>Change history</i>
1.0	10.10.2022	--

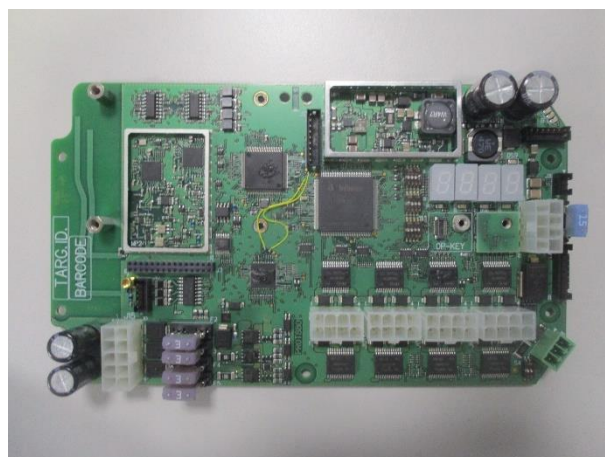
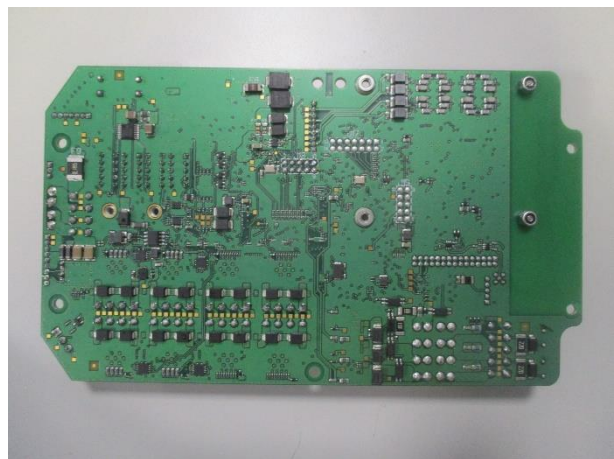
<b>Testing and sampling:</b>	
Date of receipt of test item .....	02.08.2022
Testing start date .....	05.08.2022
Testing end date .....	03.10.2022
Sampling procedure .....	Equipment used for testing was picked up by the customer
Internal identification .....	Adhesive label with the product number P220792
<b>General remarks:</b>	
<p>This report shall not be reproduced, except in full, without the written approval of CMC.            The test results presented in this report relate only to the object tested.            "(see appended table)": refers to a table appended to the report.            Throughout this report a comma is used as the decimal separator.</p>	
<b>Possible test case verdicts:</b>	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object does not performed:	N/E (Not Executed)
<b>Definition of symbols used in this test report:</b>	
<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 .....	Transceiver unit						
Model Number .....	Model AXP Type NP055						
FCC ID .....	OQA-AXPNP055						
Serial Number .....	--						
Brand name .....	Autec						
Frequency band .....	902 – 928 MHz						
Nominal frequencies .....	FL: 915,075 MHz	FM: 921,425 MHz	FH: 927,825 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: 24 V					<input type="checkbox"/>	
Pseudo randomly ordered list of hopping frequencies .....	See document axp_np055_operational_description-rev0						
Type of equipment .....	<input checked="" type="checkbox"/> Transmitter unit <input checked="" type="checkbox"/> Receiver unit						
Type of station .....	<input checked="" type="checkbox"/> Portable station <input 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 these 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	--	<b>P</b>
Part 15.203	Antenna requirements	ANSI C63.10	<b>P</b>
Part 15.207	Conducted emissions	ANSI C63.10	<b>P</b>
Part 15.209	Radiated emissions and spurious emission	ANSI C63.10	<b>P</b>
Part 15.247	20 dB Bandwidth	ANSI C63.10	<b>P</b>
Part 15.247	Channel Separation	ANSI C63.10	<b>P</b>
Part 15.247	Number of Hopping Channel	ANSI C63.10	<b>P</b>
Part 15.247	Time of occupancy	ANSI C63.10	<b>P</b>
Part 15.247	Band edge	ANSI C63.10	<b>P</b>
Part 15.209 and 15.247	Peak Output Power	ANSI C63.10	<b>P</b>



<b>Normative references</b>	
<b>Reference no.</b>	<b>Description</b>
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**

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:		
	<b>Temperature</b>	<b>Humidity</b>	<b>Atmospheric pressure</b>
	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**

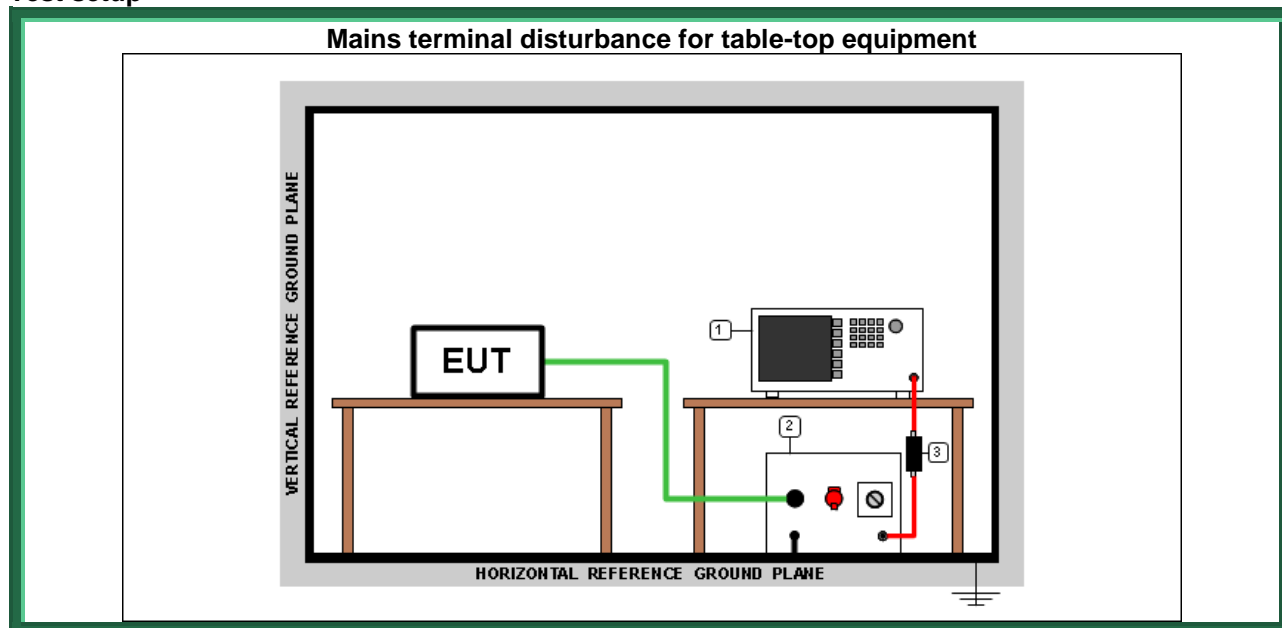
Tested by .....	M. Segalla	
Test date .....	05.08.2022	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification .....	<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used 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"/>	Internal antenna
	<input checked="" type="checkbox"/>	External antenna
Antenna gain .....	2 dBi for internal antenna 2,15 dBi for external antenna	
External R.F. power amplifier.....	Not Present	

**9.2 Conducted emission**

Tested by .....	M. Segalla	
Test date .....	03.10.2022	
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.....	<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.....	<input checked="" type="checkbox"/>	Artificial mains network, 50 $\mu$ H/50 $\Omega$ LISN
	<input type="checkbox"/>	Other:

**Acceptance limits**

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

**Test setup**


*Test setup PE001\_01*

Nr.	Id. Number	Manufacturer	Model	Description
3	CMC S010	Rohde & Schwarz	ESH3-Z2	Pulse limiter
2	CMC S200	Schwarzbeck	NSLK 8128	V-LISN
1	CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz

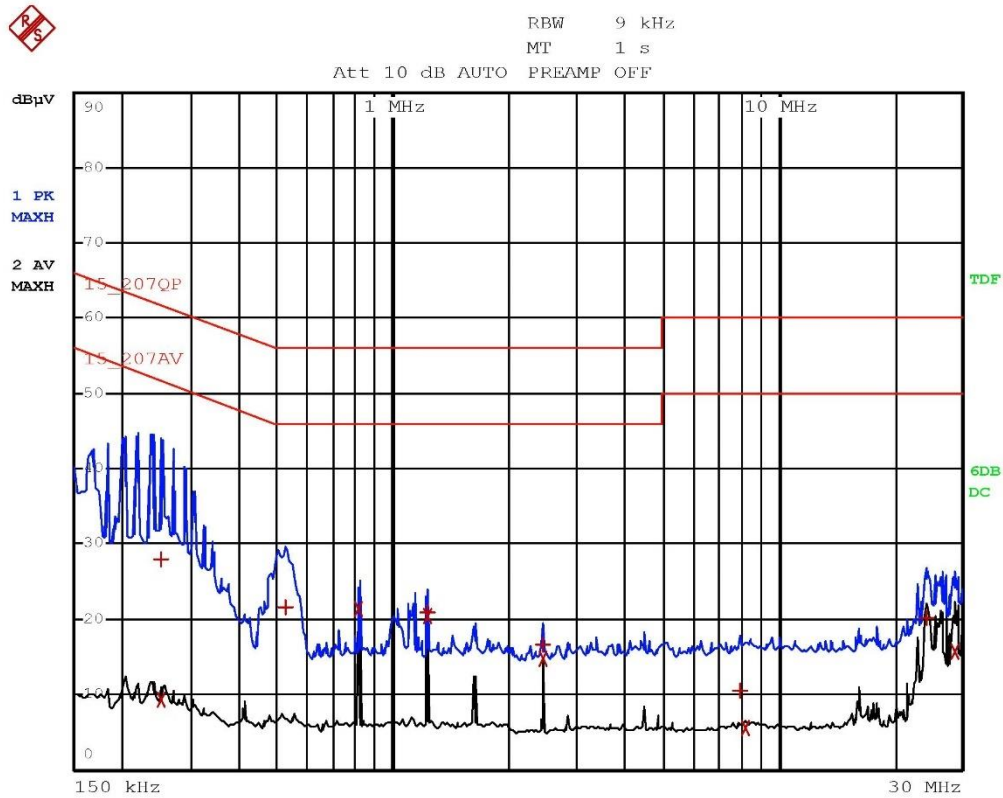
**Result**

Antenna	Line	Frequency Range (MHz)	Graphs	Result
External antenna	+24 Vdc	0,15 – 30	G22157690	P
External antenna	-24 Vdc	0,15 – 30	G22157691	P
Internal antenna	-24 Vdc	0,15 – 30	G22157692	P
Internal antenna	+24 Vdc	0,15 – 30	G22157693	P

**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

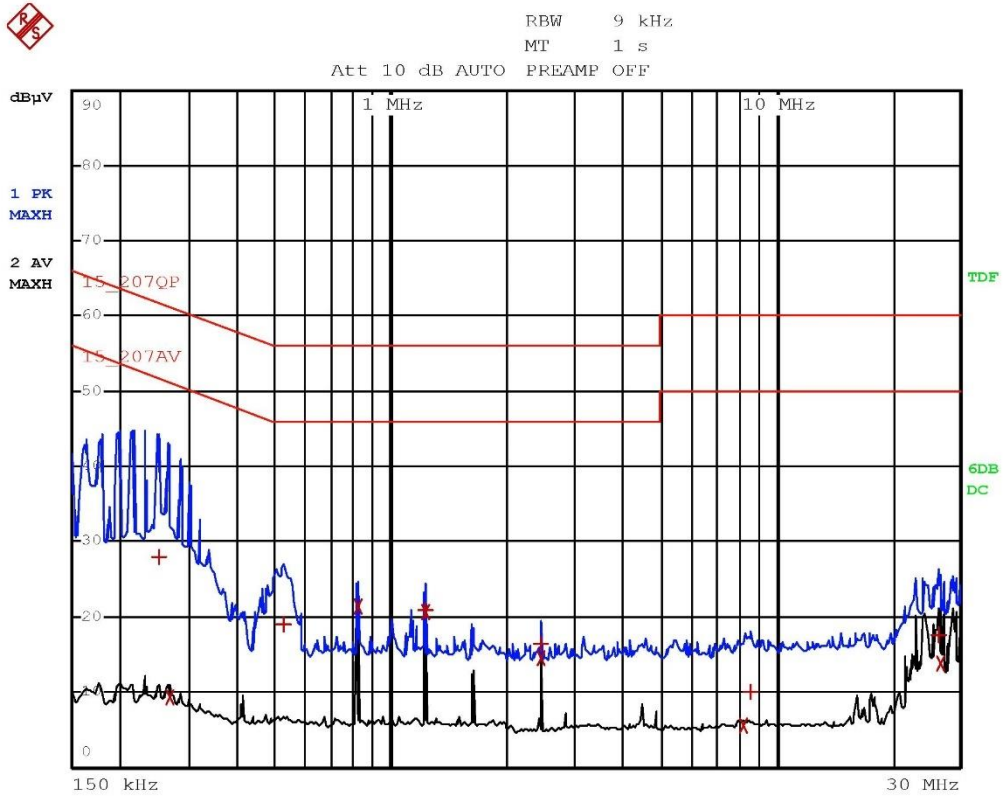
## Graphs



Segalla 22157690

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB $\mu$ V	DELTA LIMIT dB
1 Quasi Peak	250 kHz	28.07	-33.67
2 Average	254 kHz	9.44	-42.18
1 Quasi Peak	526 kHz	21.60	-34.39
2 Average	814 kHz	21.30	-24.69
1 Quasi Peak	1.226 MHz	20.85	-35.14
2 Average	1.226 MHz	20.35	-25.64
1 Quasi Peak	2.45 MHz	16.54	-39.45
2 Average	2.45 MHz	14.72	-31.28
1 Quasi Peak	8.002 MHz	10.58	-49.42
2 Average	8.222 MHz	5.62	-44.37
1 Quasi Peak	24.35 MHz	20.18	-39.81
2 Average	28.686 MHz	15.60	-34.39

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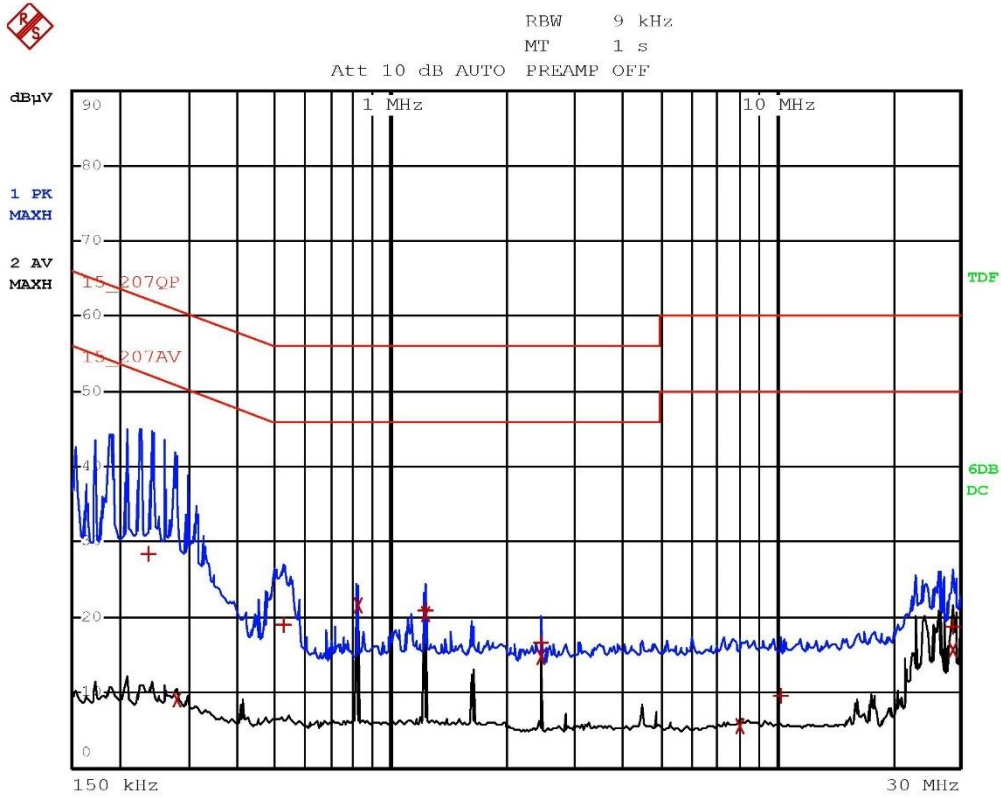


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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB $\mu$ V	DELTA LIMIT dB
1 Quasi Peak	250 kHz	28.07	-33.67
2 Average	266 kHz	9.35	-41.88
1 Quasi Peak	526 kHz	19.00	-36.99
2 Average	818 kHz	21.42	-24.57
1 Quasi Peak	1.226 MHz	20.94	-35.06
2 Average	1.226 MHz	20.59	-25.40
1 Quasi Peak	2.45 MHz	16.45	-39.54
2 Average	2.45 MHz	14.55	-31.44
2 Average	8.206 MHz	5.54	-44.45
1 Quasi Peak	8.602 MHz	10.04	-49.96
1 Quasi Peak	26.486 MHz	17.60	-42.39
2 Average	26.61 MHz	13.77	-36.22

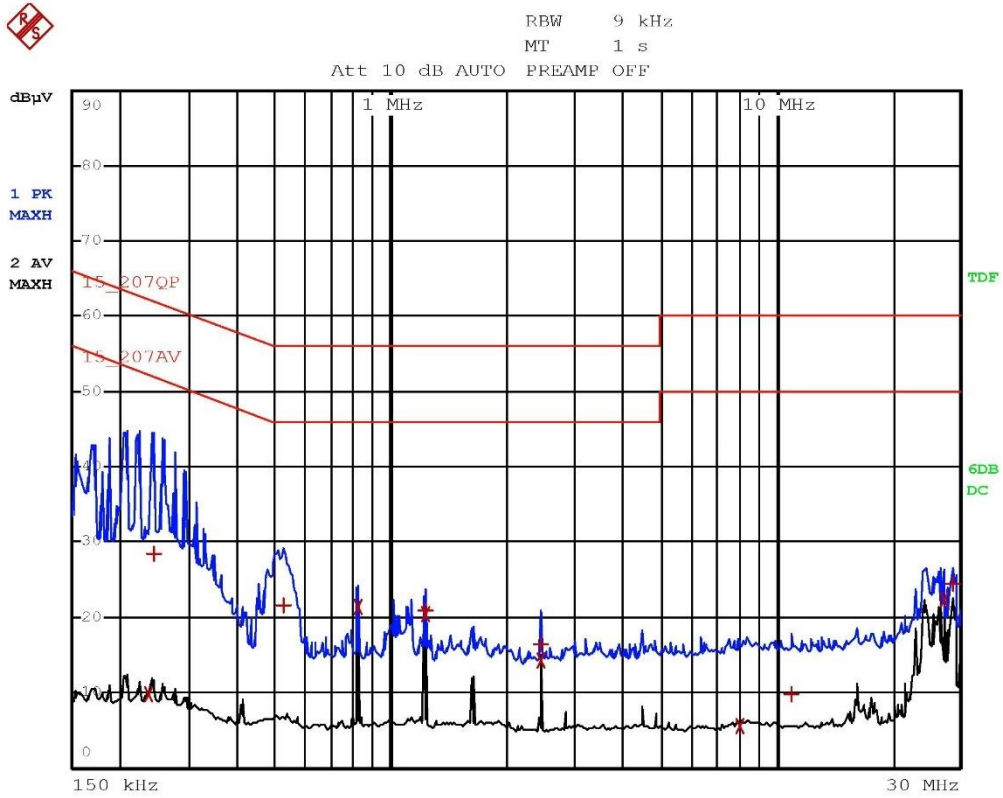
Segalla 22157691



Segalla 22157692

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpV	DELTA LIMIT dB
1 Quasi Peak	238 kHz	28.53	-33.63
2 Average	278 kHz	9.13	-41.73
1 Quasi Peak	526 kHz	19.00	-36.99
2 Average	818 kHz	21.49	-24.50
1 Quasi Peak	1.226 MHz	20.96	-35.03
2 Average	1.226 MHz	20.51	-25.48
1 Quasi Peak	2.45 MHz	16.58	-39.41
2 Average	2.45 MHz	14.65	-31.34
2 Average	8.042 MHz	5.57	-44.42
1 Quasi Peak	10.278 MHz	9.65	-50.34
1 Quasi Peak	28.686 MHz	18.83	-41.16
2 Average	28.686 MHz	15.61	-34.38

Segalla 22157692



Segalla 22157693

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBpV	DELTA LIMIT dB
2 Average	238 kHz	9.78	-42.38
1 Quasi Peak	242 kHz	28.44	-33.58
1 Quasi Peak	526 kHz	21.66	-34.33
2 Average	818 kHz	21.33	-24.66
1 Quasi Peak	1.226 MHz	20.89	-35.10
2 Average	1.226 MHz	20.37	-25.62
1 Quasi Peak	2.45 MHz	16.47	-39.52
2 Average	2.45 MHz	14.39	-31.60
2 Average	8.062 MHz	5.62	-44.37
1 Quasi Peak	10.906 MHz	9.78	-50.22
2 Average	27.158 MHz	22.30	-27.69
1 Quasi Peak	28.686 MHz	24.49	-35.50

Segalla 22157693

### 9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by .....	M. Segalla	
Test date .....	05.08.2022	
Test location (stand) .....	Semi-anechoic chamber (CMC A070)	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.209 ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Test set-up description.....	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description.....	--	
Test method applied .....	SAC with measurement distance [m]: 10 m at frequencies $\leq$ 1 GHz 3 m at frequencies $>$ 1 GHz	
Supplementary information .....	--	

#### Acceptance limits

<b>Acceptance limits for emissions in restricted frequency bands (<math>f &lt; 1000</math> MHz)</b>		
Frequency range (MHz)	Test distance (m)	Limits [dB( $\mu$ V/m)]
0,009 to 0,490	300	48,5 to 13,8
0,490 to 1,705	30	33,8 to 22,9
1,705 to 30	30	29,5
30 to 88	3	40
88 to 216	3	43,5
216 to 960	3	46,0
960 to 1000	3	54

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

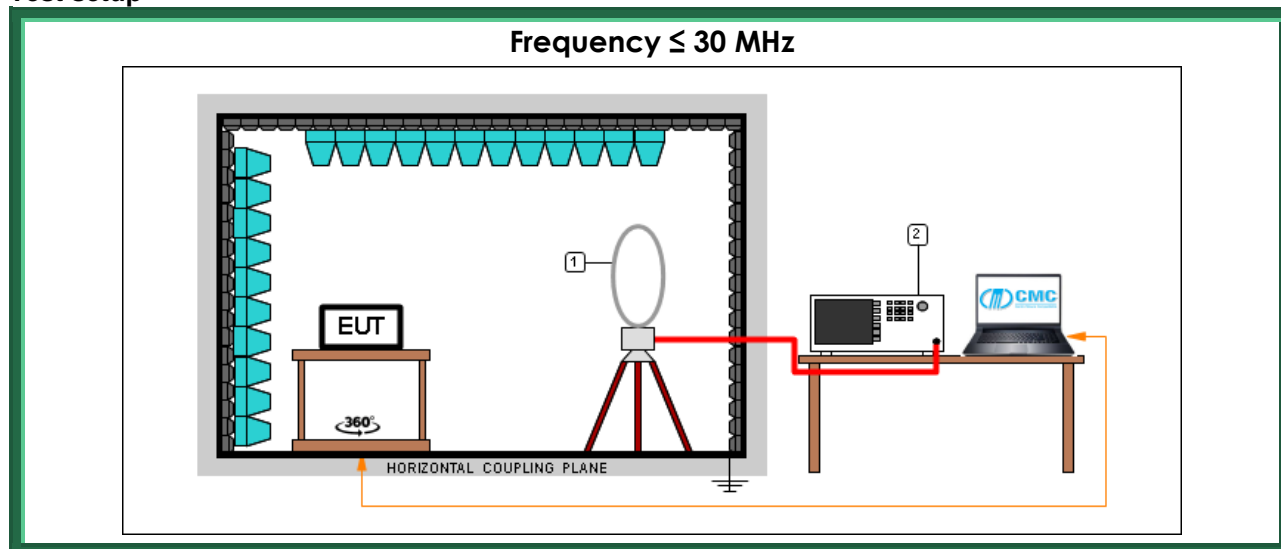
<b>Acceptance limits for emissions in restricted frequency bands (<math>f \geq 1000</math> MHz)</b>			
Frequency (MHz)	Test distance (m)	AV limits [dB( $\mu$ V/m)]	Peak limits [dB( $\mu$ V/m)]
$> 1000$	3	54	74

The restricted frequency bands are listed in the following table

<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>GHz</b>
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			

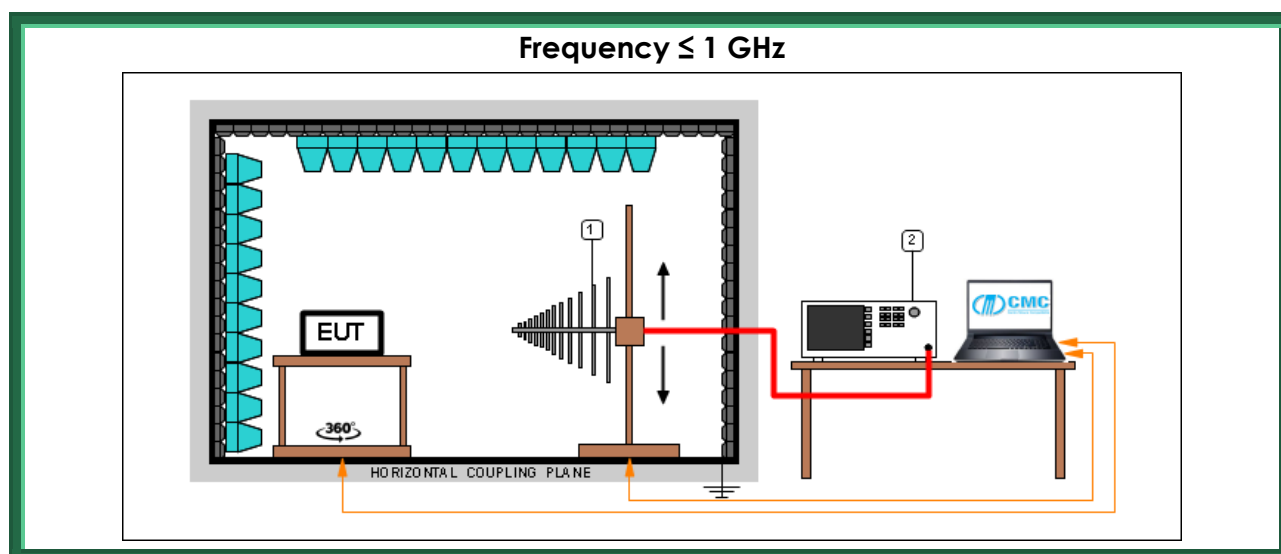
**Acceptance limits for emissions in non-restricted frequency bands**

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**


Test setup PE004\_01

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



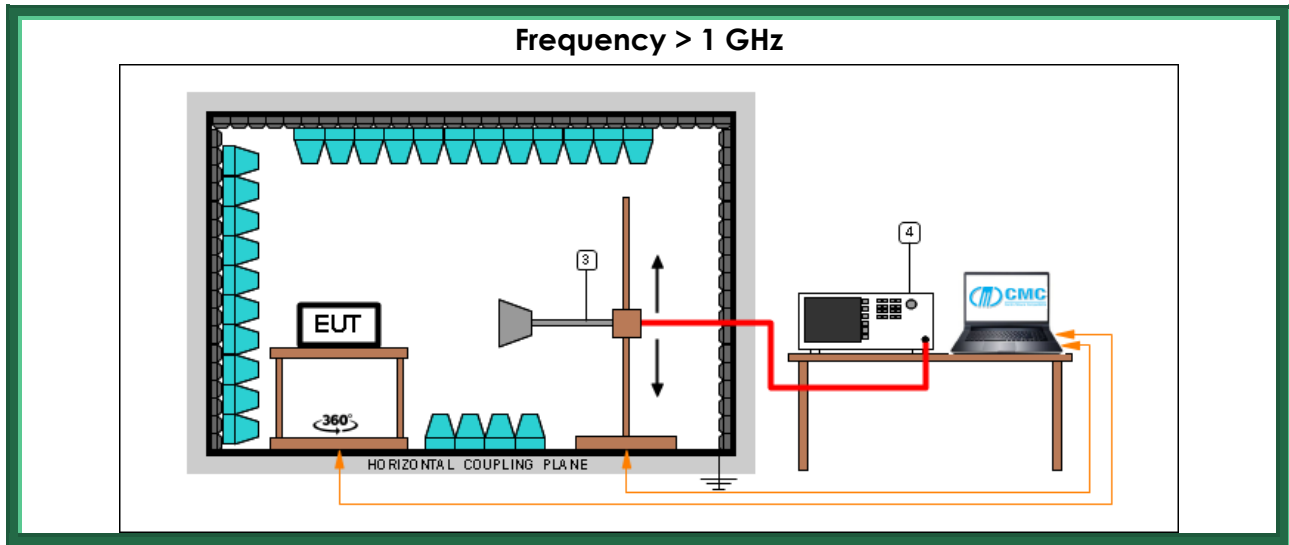
Test setup PE004\_02

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

Test setup PE004\_03

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





*Test setup PE004\_04*

<i>Nr.</i>	<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
3	CMC S108	Emco	3115	Waveguide antenna

*Test setup PE004\_05*

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

**Result**

<i>Transmission channel (MHz)</i>	<i>Antenna</i>	<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Result</i>
915,075	Internal antenna	V	1000 – 10000	G22157601	P
915,075	Internal antenna	H	1000 – 10000	G22157602	P
921,425	Internal antenna	H	1000 – 10000	G22157603	P
921,425	Internal antenna	V	1000 – 10000	G22157604	P
927,825	Internal antenna	V	1000 – 10000	G22157605	P
927,825	Internal antenna	H	1000 – 10000	G22157606	P
Worst case	Internal antenna	Loop	0,009 – 30	G22157607	P
Worst case	Internal antenna	V	30 – 300	G22157608	P
Worst case	Internal antenna	H	30 – 300	G22157609	P
927,825	Internal antenna	H	300 – 1000	G22157610	P
927,825	Internal antenna	V	300 – 1000	G22157611	P
921,425	Internal antenna	V	300 – 1000	G22157612	P
921,425	Internal antenna	H	300 – 1000	G22157613	P
915,075	Internal antenna	H	300 – 1000	G22157614	P
915,075	Internal antenna	V	300 – 1000	G22157615	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

Transmission channel (MHz)	Antenna	Polarization	Frequency Range (MHz)	Graphs	Result
927,825	External antenna	H	1000 – 10000	G22157650	P
927,825	External antenna	V	1000 – 10000	G22157651	P
921,425	External antenna	V	1000 – 10000	G22157652	P
921,425	External antenna	H	1000 – 10000	G22157653	P
915,075	External antenna	H	1000 – 10000	G22157654	P
915,075	External antenna	V	1000 – 10000	G22157655	P
915,075	External antenna	V	300 – 1000	G22157656	P
915,075	External antenna	H	300 – 1000	G22157657	P
921,425	External antenna	H	300 – 1000	G22157658	P
921,425	External antenna	V	300 – 1000	G22157659	P
927,825	External antenna	V	300 – 1000	G22157660	P
927,825	External antenna	H	300 – 1000	G22157661	P
Worst case	External antenna	H	30 – 300	G22157662	P
Worst case	External antenna	V	30 – 300	G22157663	P
Worst case	External antenna	Loop	0,009 – 30	G22157664	P

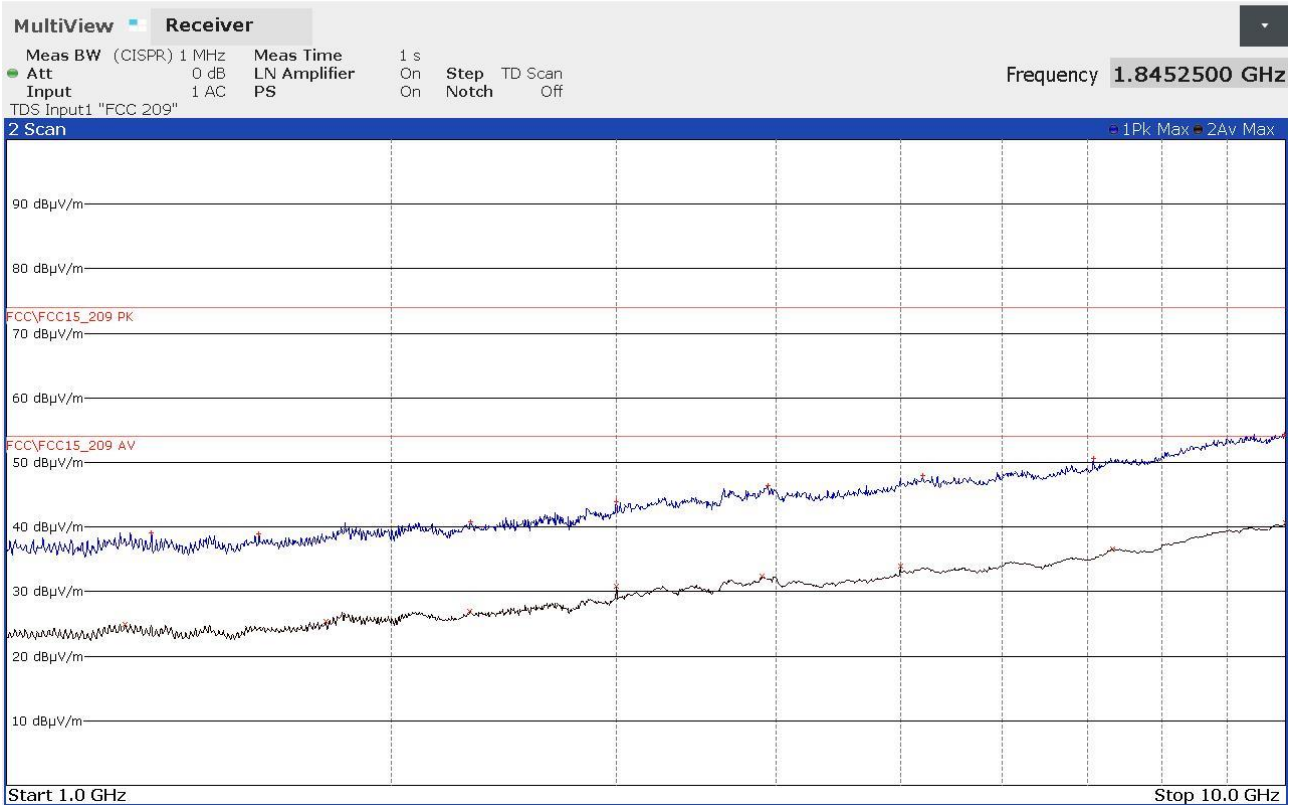
**Remarks:** EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $40\log(\text{test distance}/10)$  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 22157601

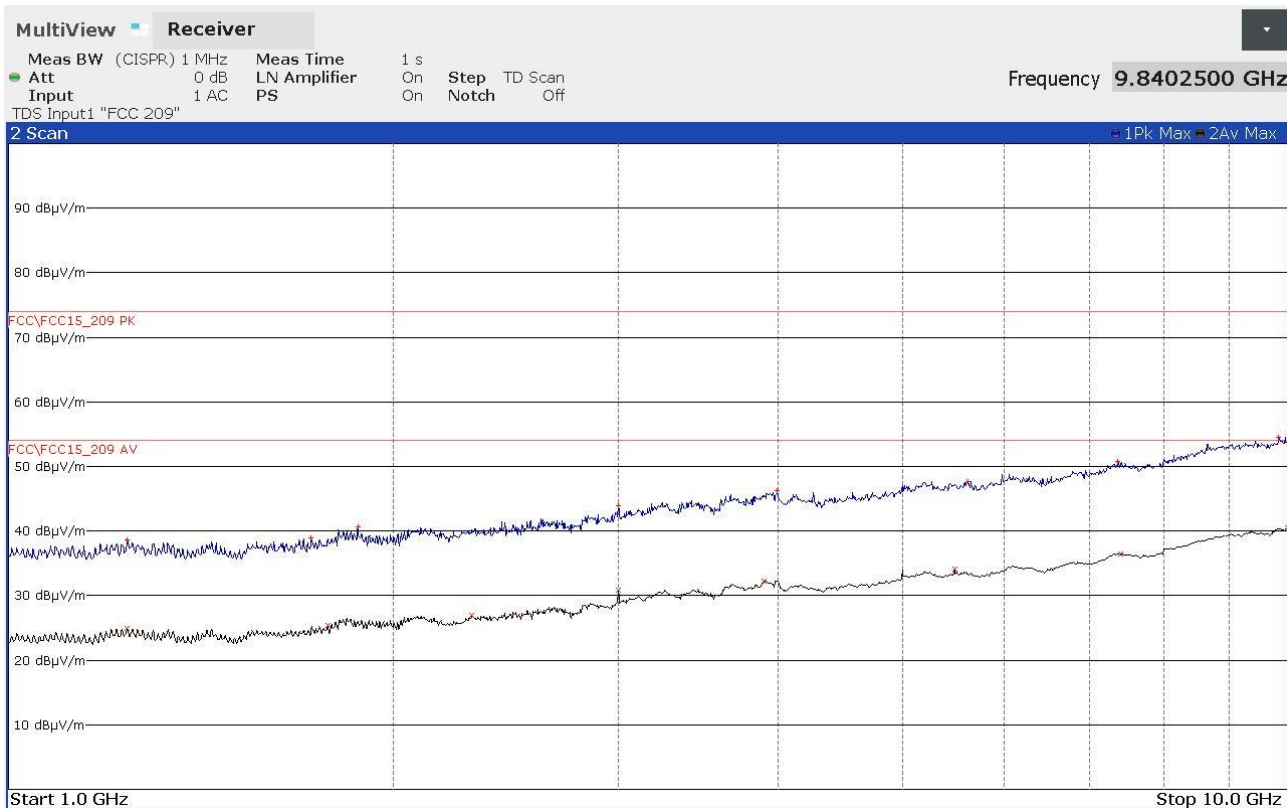


### FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1298500000	+39,16	-34,82	1238000000	+24,95	-29,03
1575500000	+39,01	-34,97	1776250000	+25,38	-28,60
2306750000	+40,74	-33,24	2304000000	+26,95	-27,03
2999500000	+43,96	-30,02	2999750000	+30,91	-23,07
3936750000	+46,48	-27,50	3899500000	+32,33	-21,65
5202750000	+47,98	-26,00	4999750000	+34,02	-19,96
7074750000	+50,59	-23,39	7320500000	+36,68	-17,30
9974750000	+54,39	-19,59	10000000000	+40,61	-13,37

22157601\_2

Segalla 22157602

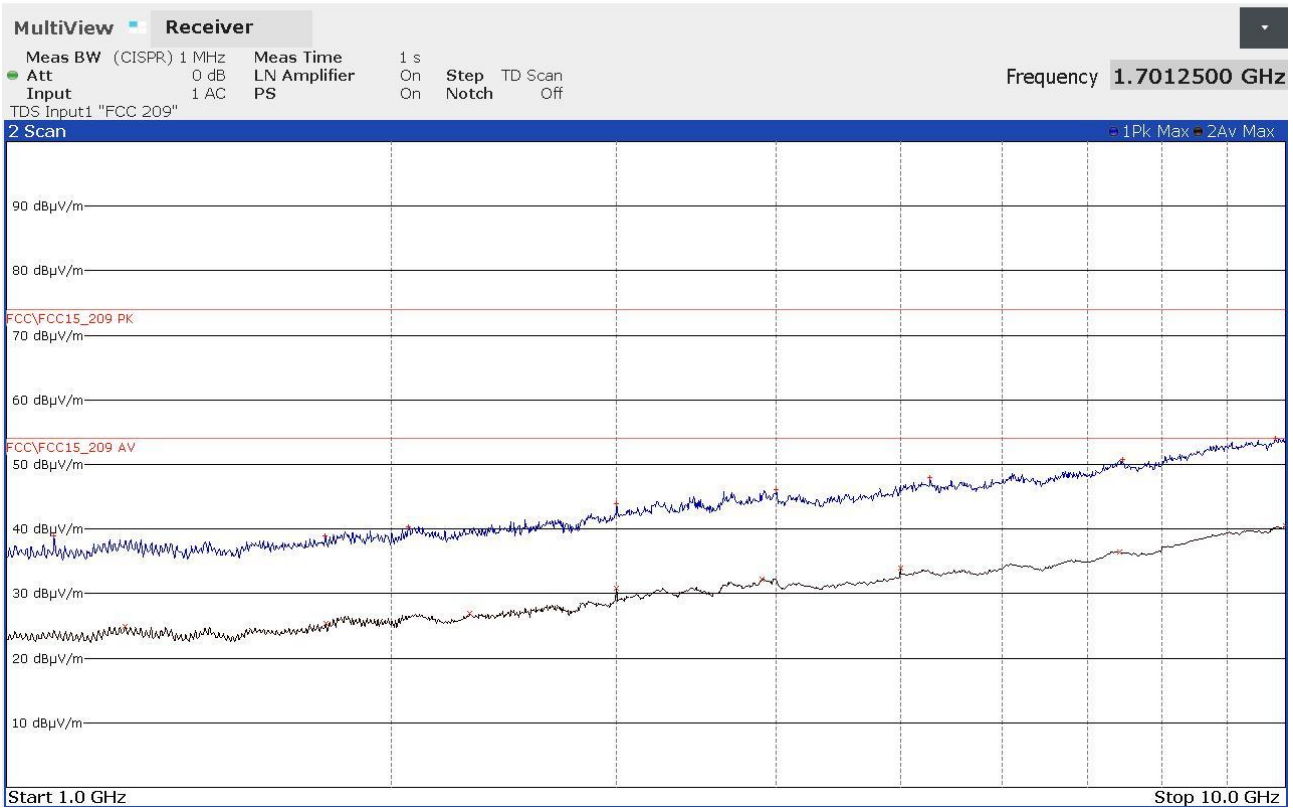


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1238750000	+38,66	-35,32	1238000000	+24,93	-29,05
1724500000	+38,88	-35,10	1776500000	+25,35	-28,63
1875000000	+40,59	-33,39	2303750000	+26,91	-27,07
2999000000	+44,00	-29,98	2999500000	+30,87	-23,11
3991250000	+46,26	-27,72	3899250000	+32,30	-21,68
5623250000	+47,73	-26,25	5490500000	+34,15	-19,83
7372000000	+50,73	-23,25	7412500000	+36,50	-17,48
9846750000	+54,58	-19,40	9999750000	+40,55	-13,43

22157602\_2

Segalla 22157603

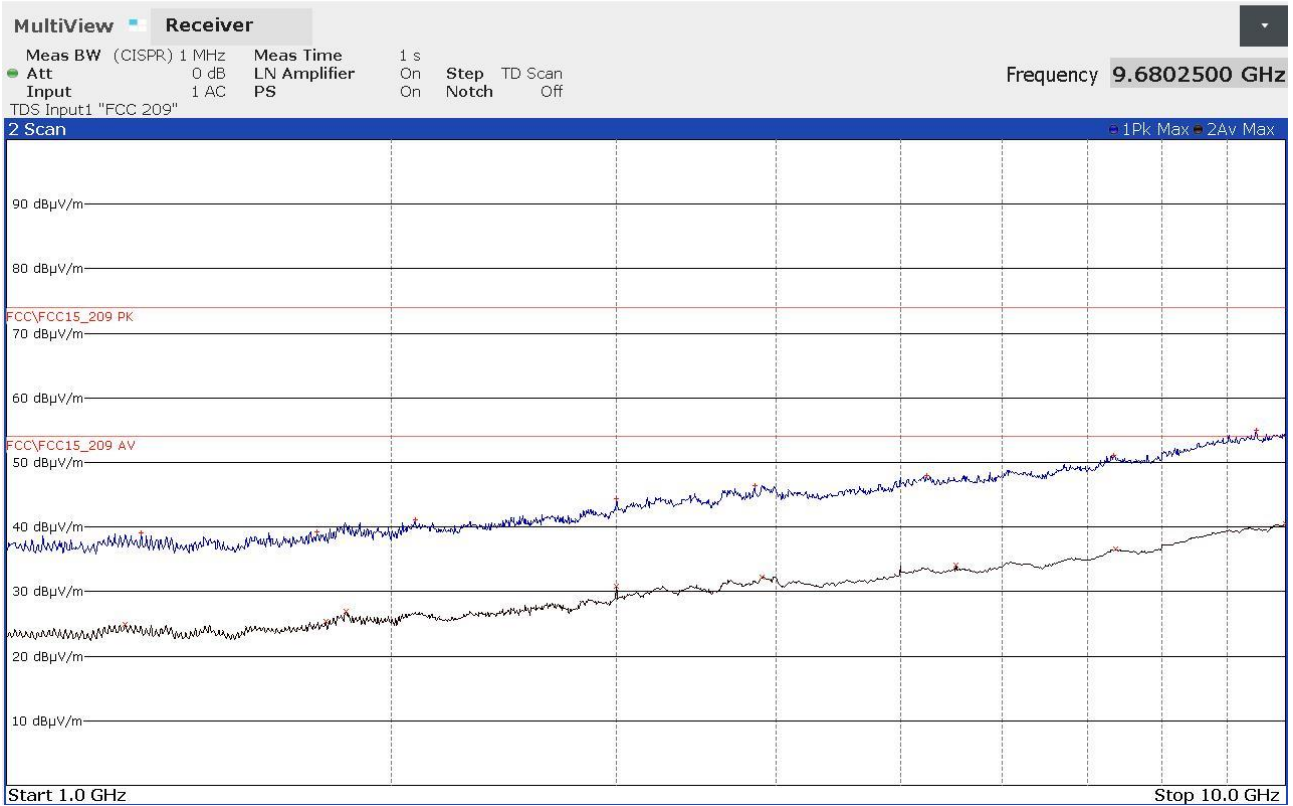


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1089000000	+38,99	-34,99	1238250000	+24,96	-29,02
1775500000	+38,98	-35,00	1776500000	+25,38	-28,60
2062250000	+40,36	-33,62	2303750000	+26,91	-27,07
2999500000	+43,96	-30,02	2999500000	+30,89	-23,09
3997750000	+46,08	-27,90	3899250000	+32,30	-21,68
5270000000	+47,91	-26,07	4999750000	+33,96	-20,02
7456250000	+50,72	-23,26	7413750000	+36,52	-17,46
9818750000	+54,10	-19,88	10000000000	+40,57	-13,41

22157603\_2

Segalla 22157604

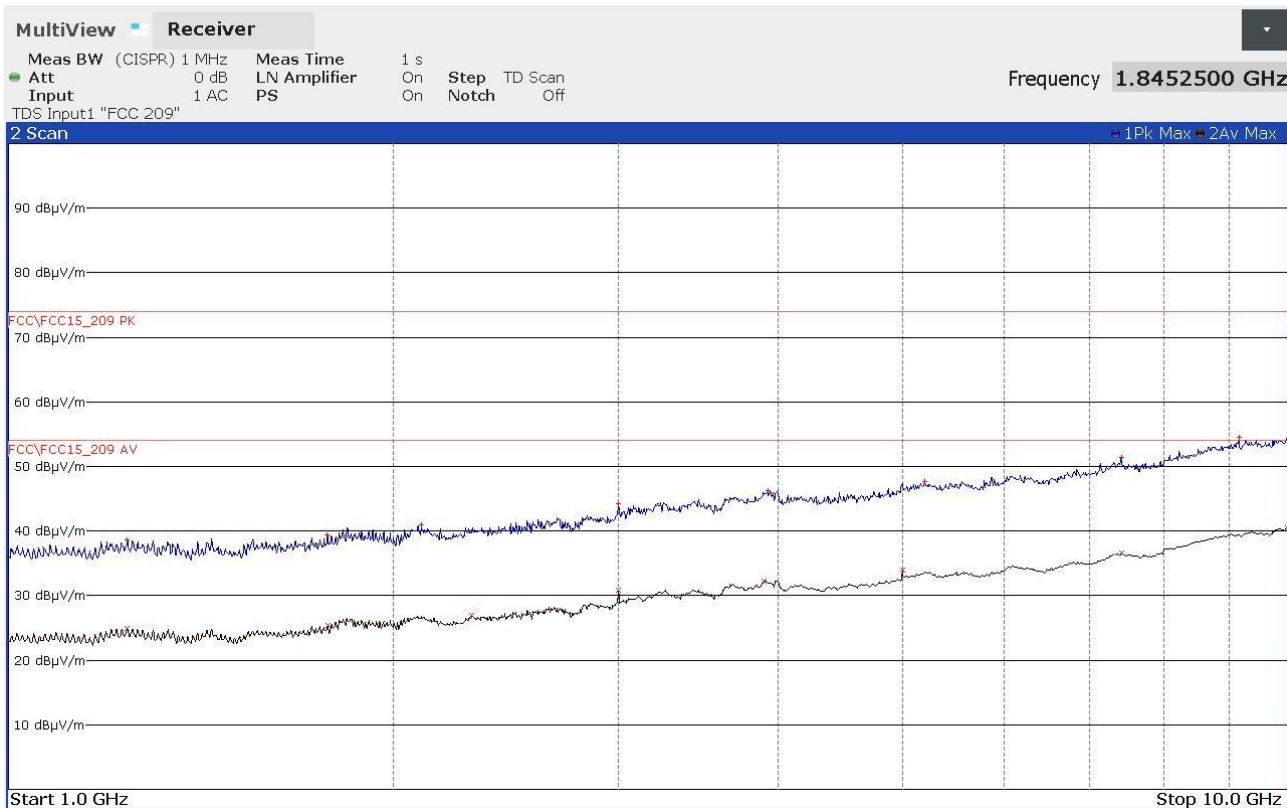


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1274750000	+39,12	-34,86	1238000000	+24,93	-29,05
1749250000	+39,33	-34,65	1776500000	+25,36	-28,62
2087500000	+41,07	-32,91	1842750000	+26,98	-27,00
2999000000	+44,42	-29,56	2999750000	+30,90	-23,08
3847750000	+46,40	-27,58	3899500000	+32,30	-21,68
5239250000	+47,93	-26,05	5528500000	+34,08	-19,90
7336250000	+51,04	-22,94	7371500000	+36,64	-17,34
9485000000	+54,99	-18,99	10000000000	+40,57	-13,41

22157604\_2

Segalla 22157605



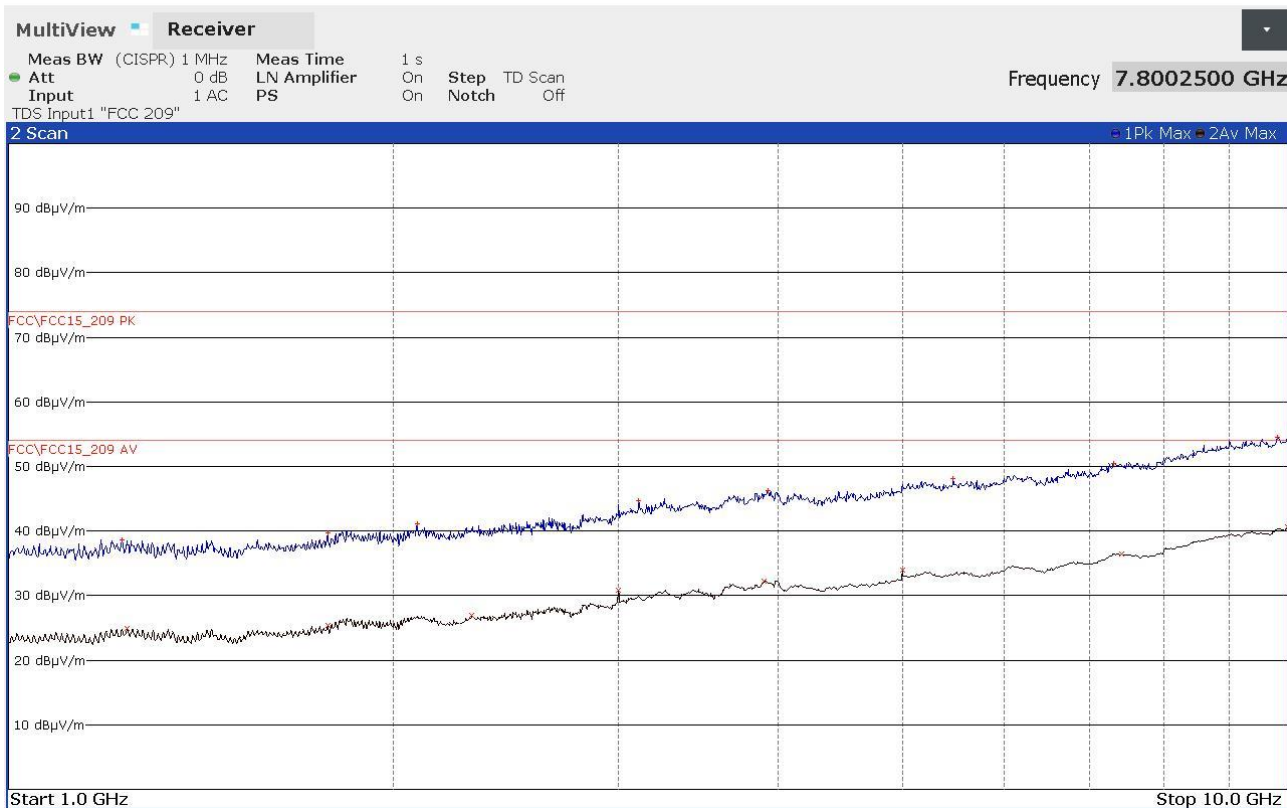
FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1239000000	+38,64	-35,34	1238250000	+24,95	-29,03
1775750000	+39,45	-34,53	1776500000	+25,35	-28,63
2104250000	+40,89	-33,09	2304000000	+26,93	-27,05
2998250000	+44,23	-29,75	2999750000	+30,87	-23,11
3924000000	+46,26	-27,72	3899250000	+32,28	-21,70
5201500000	+47,65	-26,33	4999500000	+33,95	-20,03
7414500000	+51,47	-22,51	7422500000	+36,68	-17,30
9168500000	+54,49	-19,49	10000000000	+40,56	-13,42

22157605\_2



Segalla 22157606

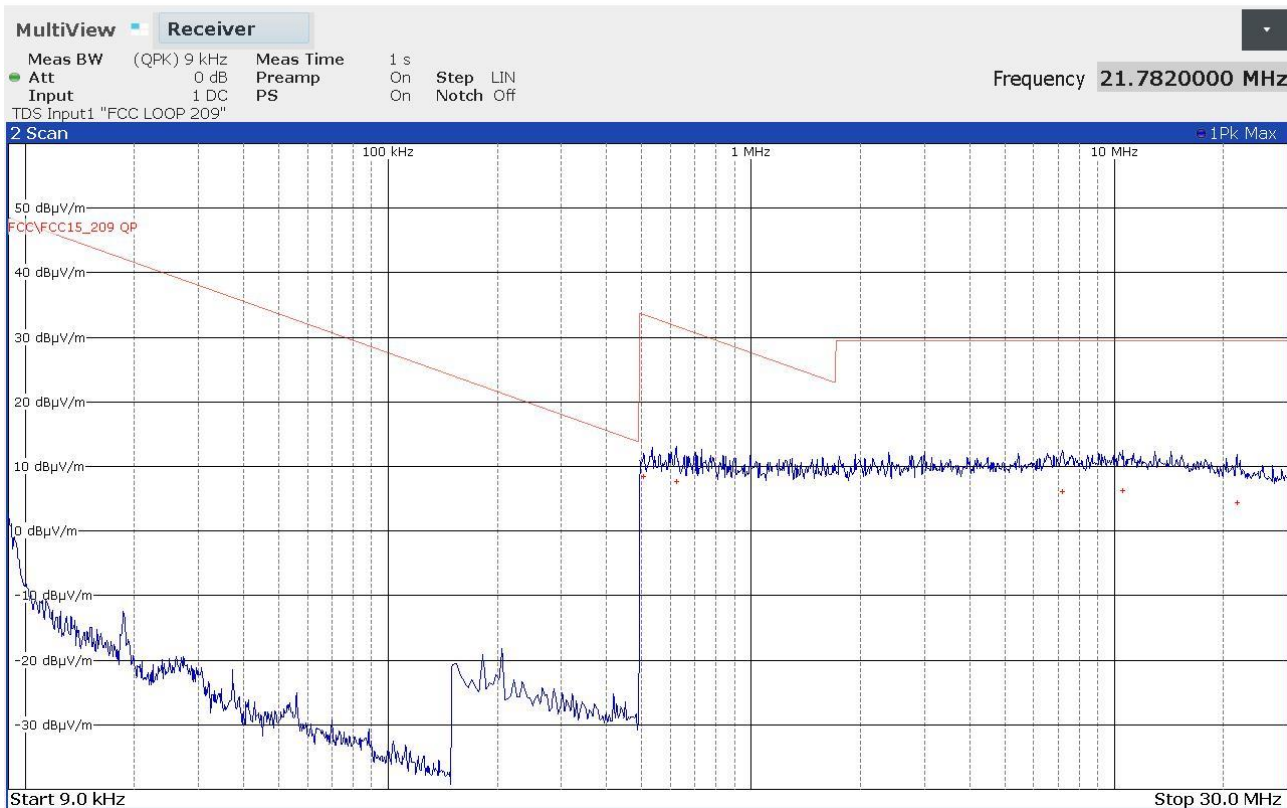


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1227000000	+38,67	-35,31	1238250000	+24,94	-29,04
1777000000	+39,69	-34,29	1776500000	+25,37	-28,61
2086750000	+41,15	-32,83	2303750000	+26,94	-27,04
3109750000	+44,78	-29,20	2999750000	+30,88	-23,10
3923000000	+46,31	-27,67	3899000000	+32,31	-21,67
5478250000	+48,07	-25,91	4999750000	+33,95	-20,03
7316500000	+50,49	-1,49	7422750000	+36,50	-17,48
9815250000	+54,47	-19,51	10000000000	+40,58	-13,40

22157606\_2

Segalla 22157607

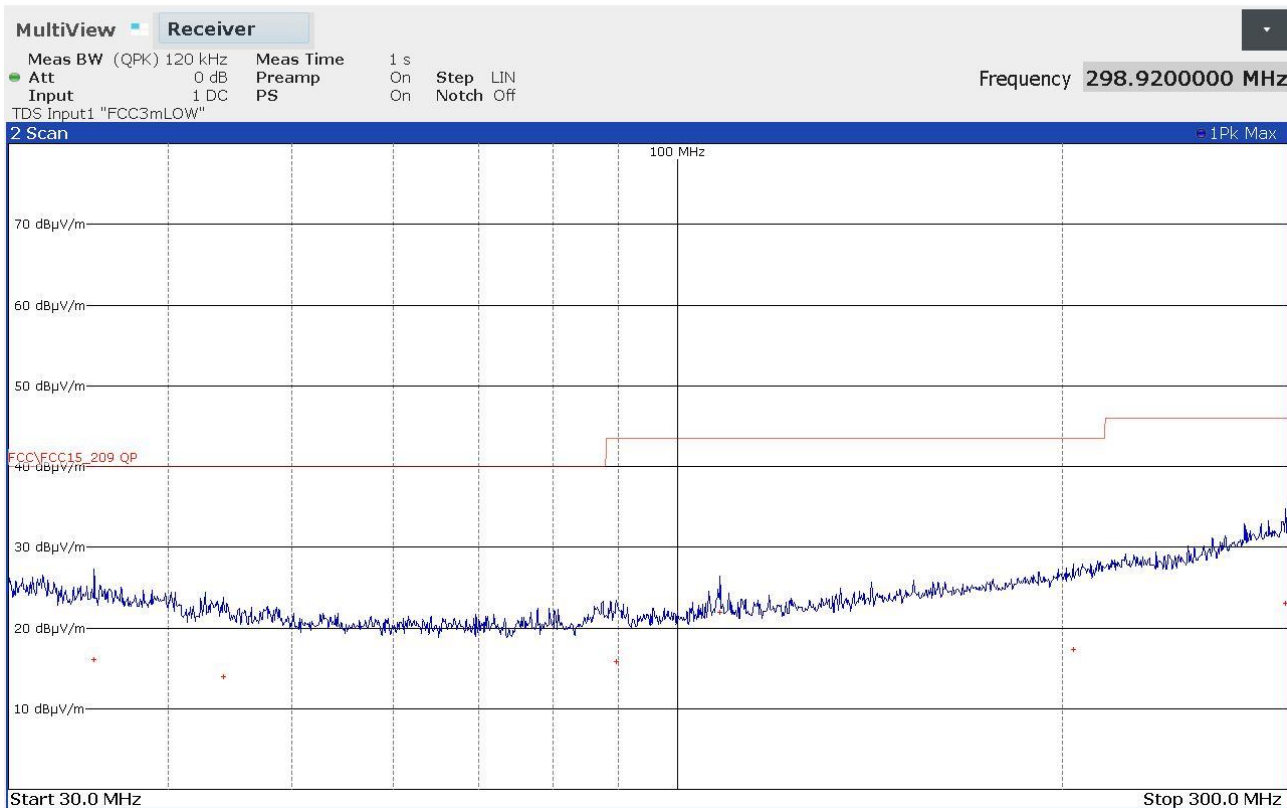


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
506000	+8,40	-25,12
622000	+7,62	-24,11
7210000	+6,07	-23,47
10558000	+6,20	-23,34
21782000	+4,33	-25,21

22157607\_2

Segalla 22157608

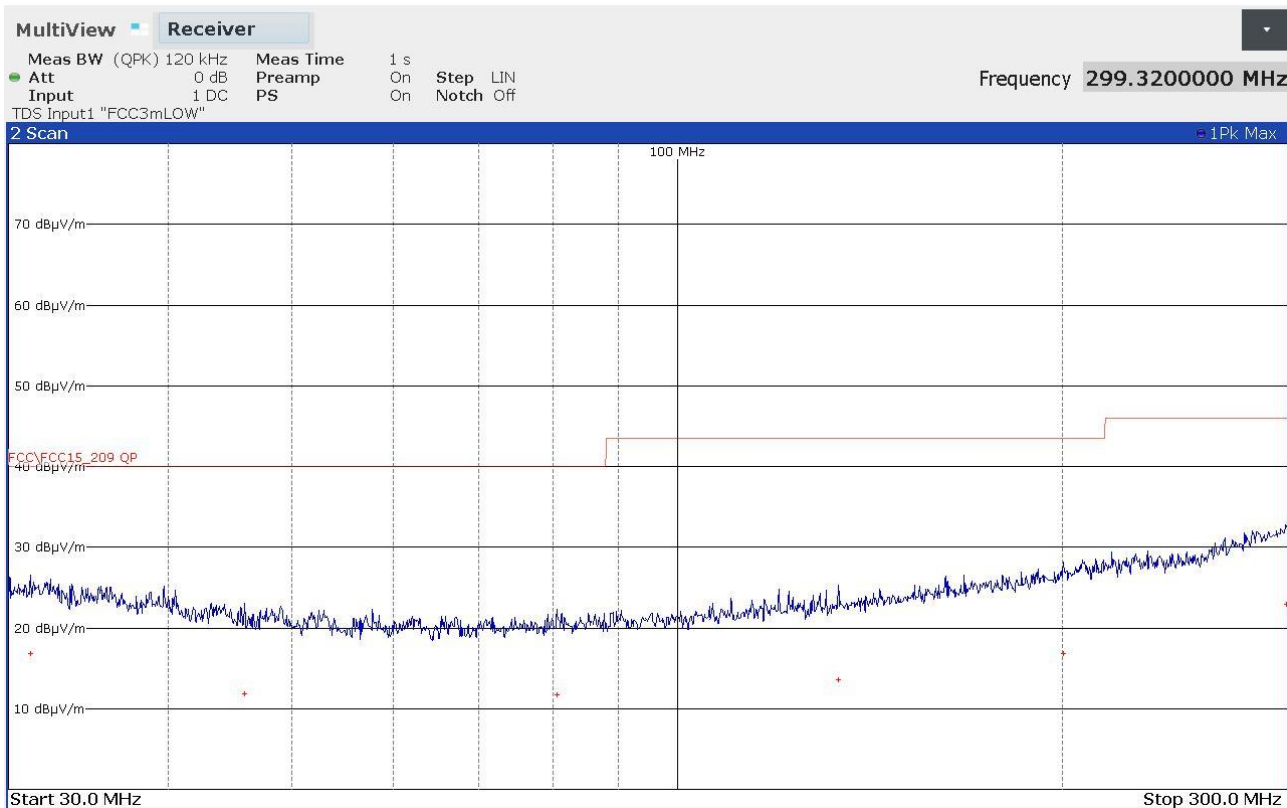


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
35000000	+16,08	-23,92
44160000	+13,91	-26,09
89560000	+15,81	-27,71
108000000	+21,96	-21,56
204120000	+17,32	-26,20
298920000	+23,06	-22,96

22157608\_2

Segalla 22157609

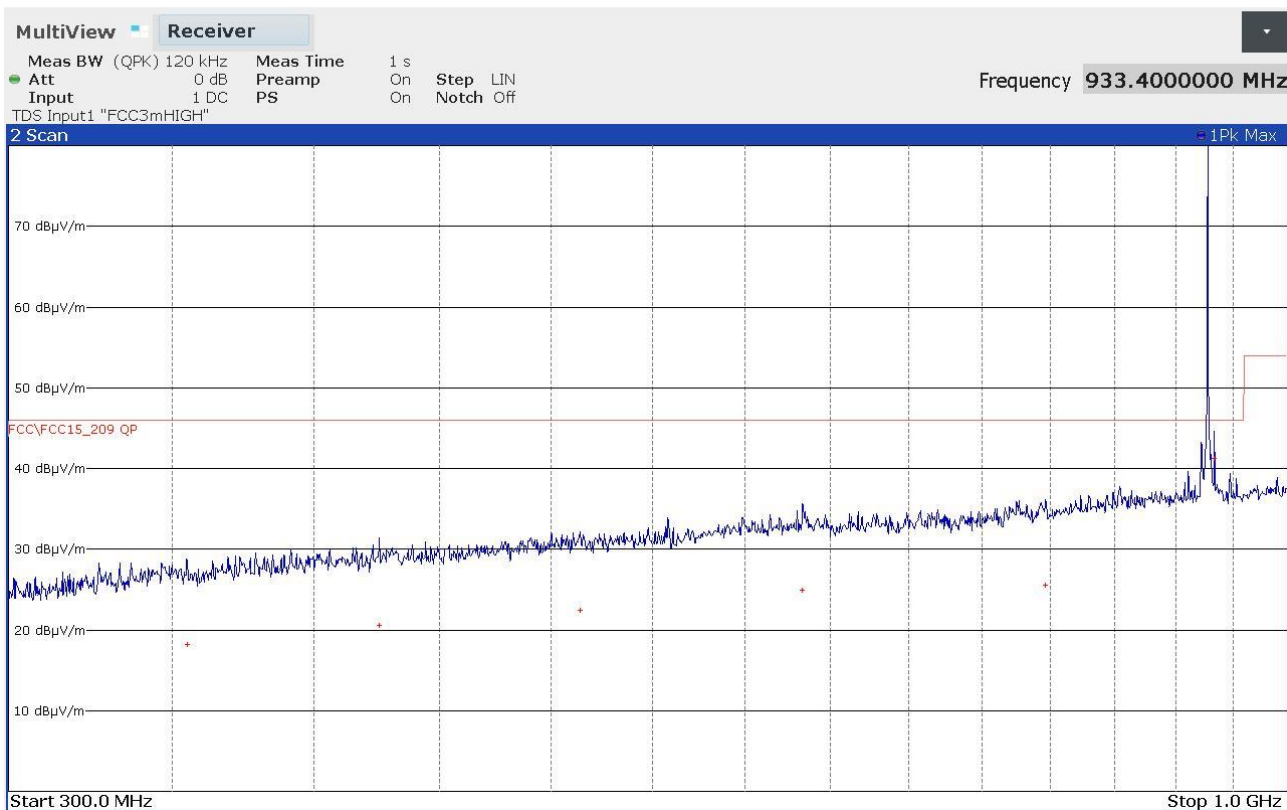


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
31200000	+16,79	-23,21
45920000	+11,81	-28,19
80480000	+11,71	-28,29
133720000	+13,58	-29,94
200360000	+16,81	-26,71
299320000	+22,96	-23,06

22157609\_2

Segalla 22157610

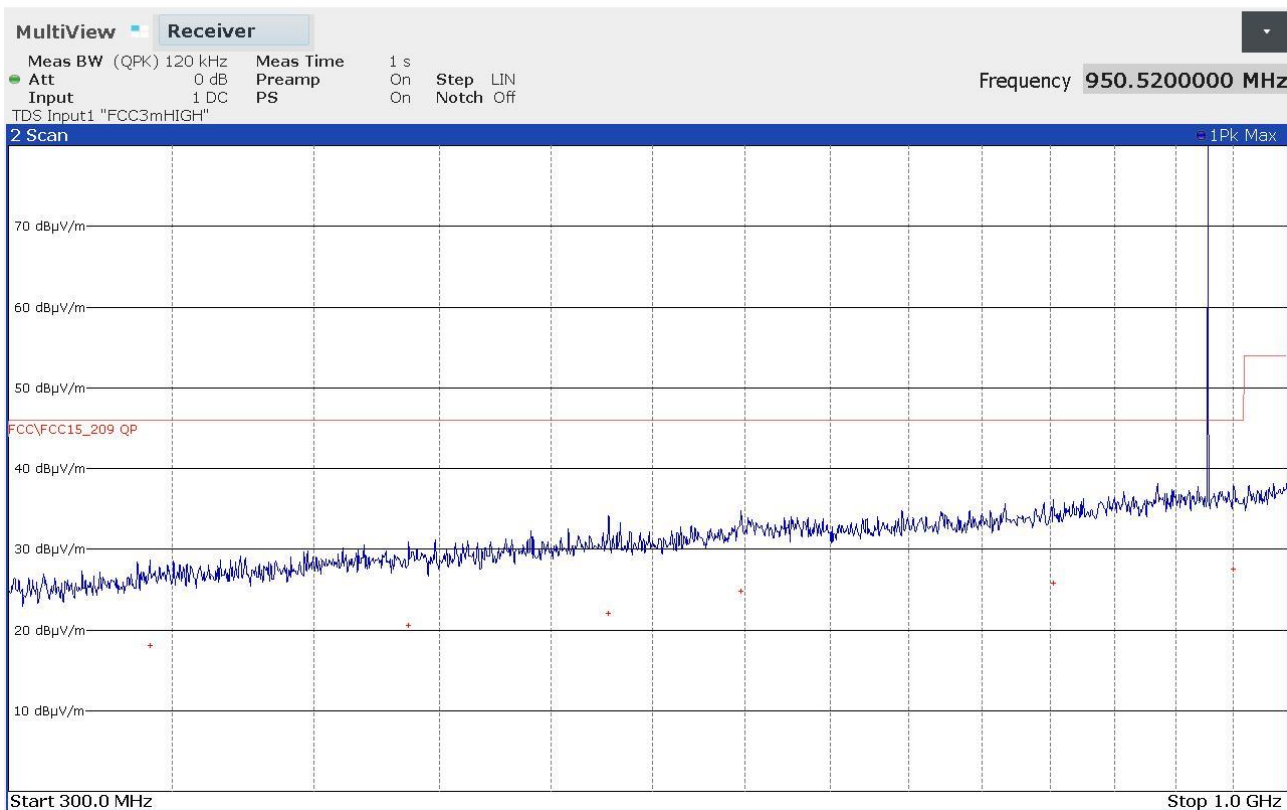


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
354840000	+18,17	-27,85
425400000	+20,55	-25,47
513840000	+22,42	-23,60
633600000	+24,95	-21,07
796400000	+25,59	-20,43
933400000	+41,26	-4,76

22157610\_2

Segalla 22157611

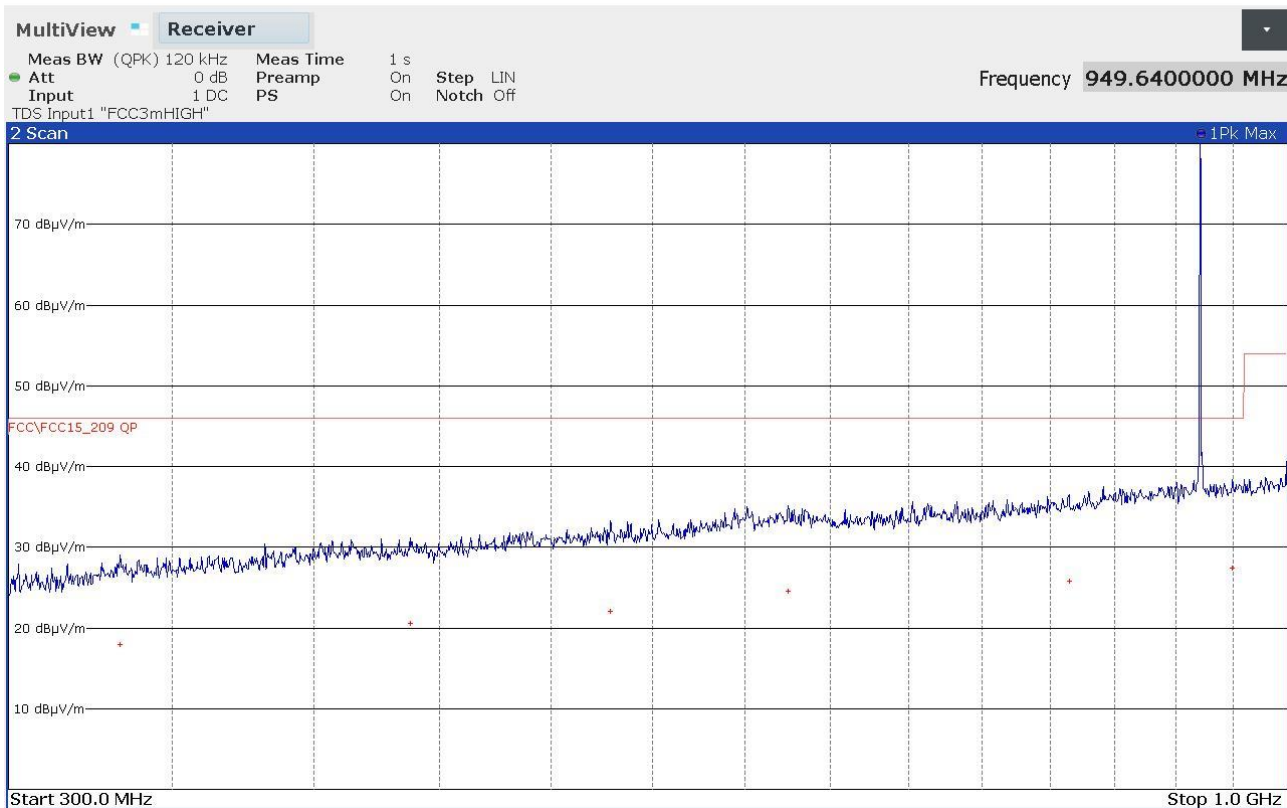


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
342840000	+18,08	-27,94
437200000	+20,62	-25,40
527880000	+22,06	-23,96
597800000	+24,82	-21,20
802000000	+25,77	-20,25
950520000	+27,48	-18,54

22157611\_2

Segalla 22157612

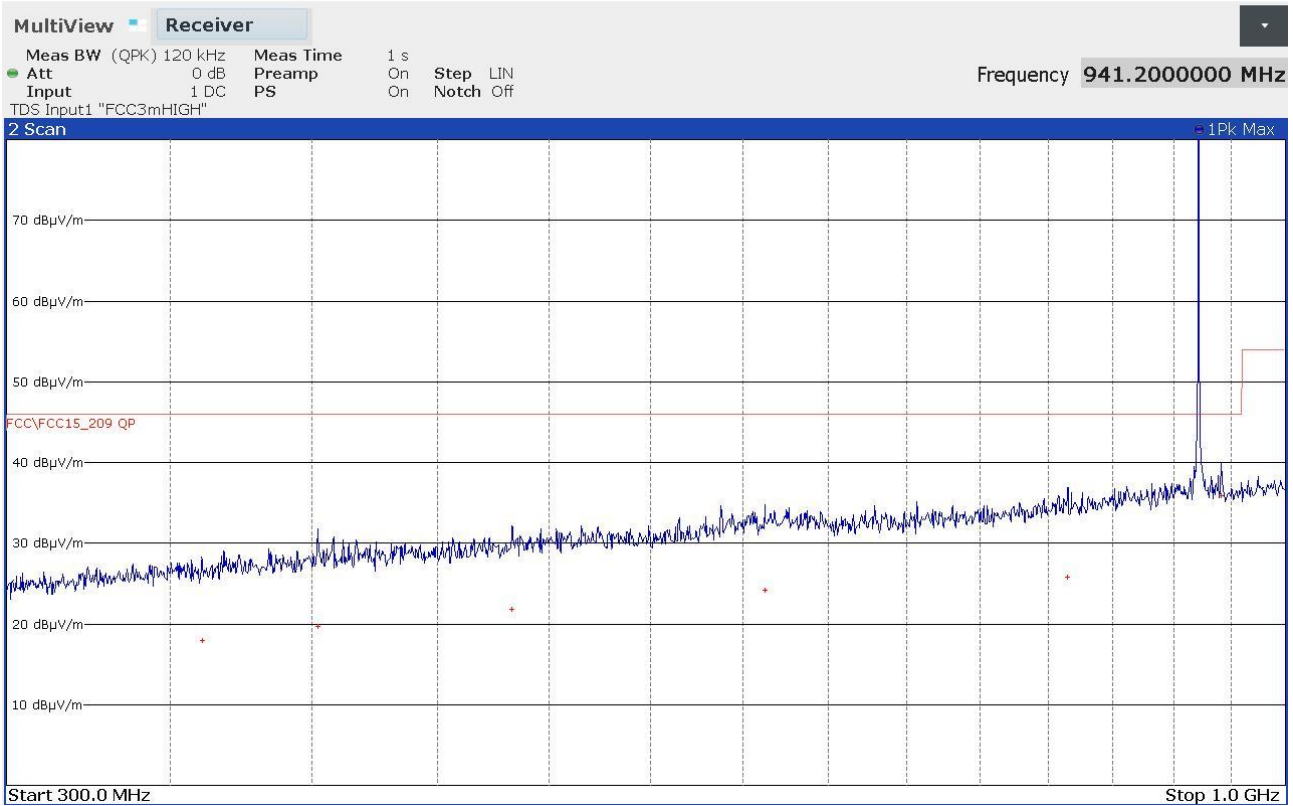


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
333320000	+17,92	-28,10
437800000	+20,61	-25,41
528840000	+22,03	-23,99
625120000	+24,56	-21,46
814200000	+25,84	-20,18
949640000	+27,43	-18,59

22157612\_2

Segalla 22157613



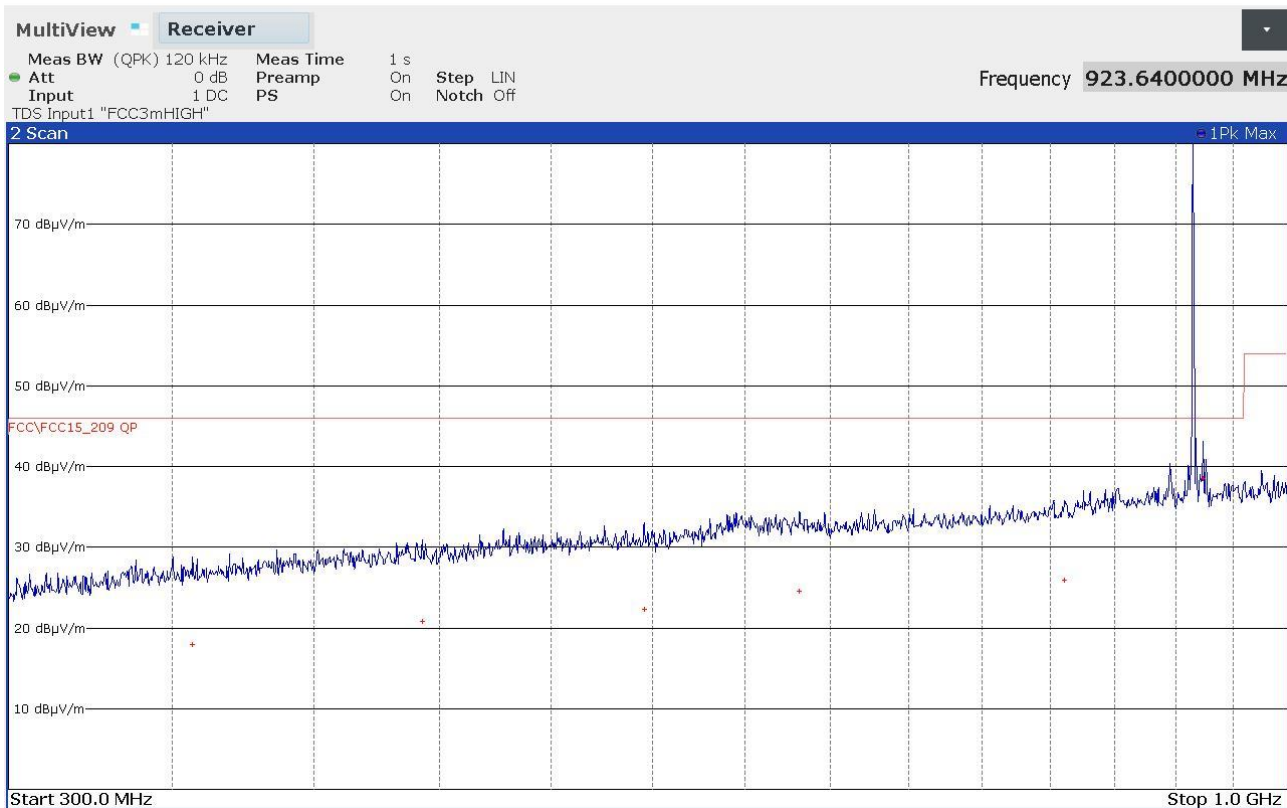
FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
360600000	+17,90	-28,12
402160000	+19,68	-26,34
482960000	+21,78	-24,24
612720000	+24,22	-21,80
814840000	+25,79	-20,23
941200000	+35,83	-10,19

22157613\_2



Segalla 22157614

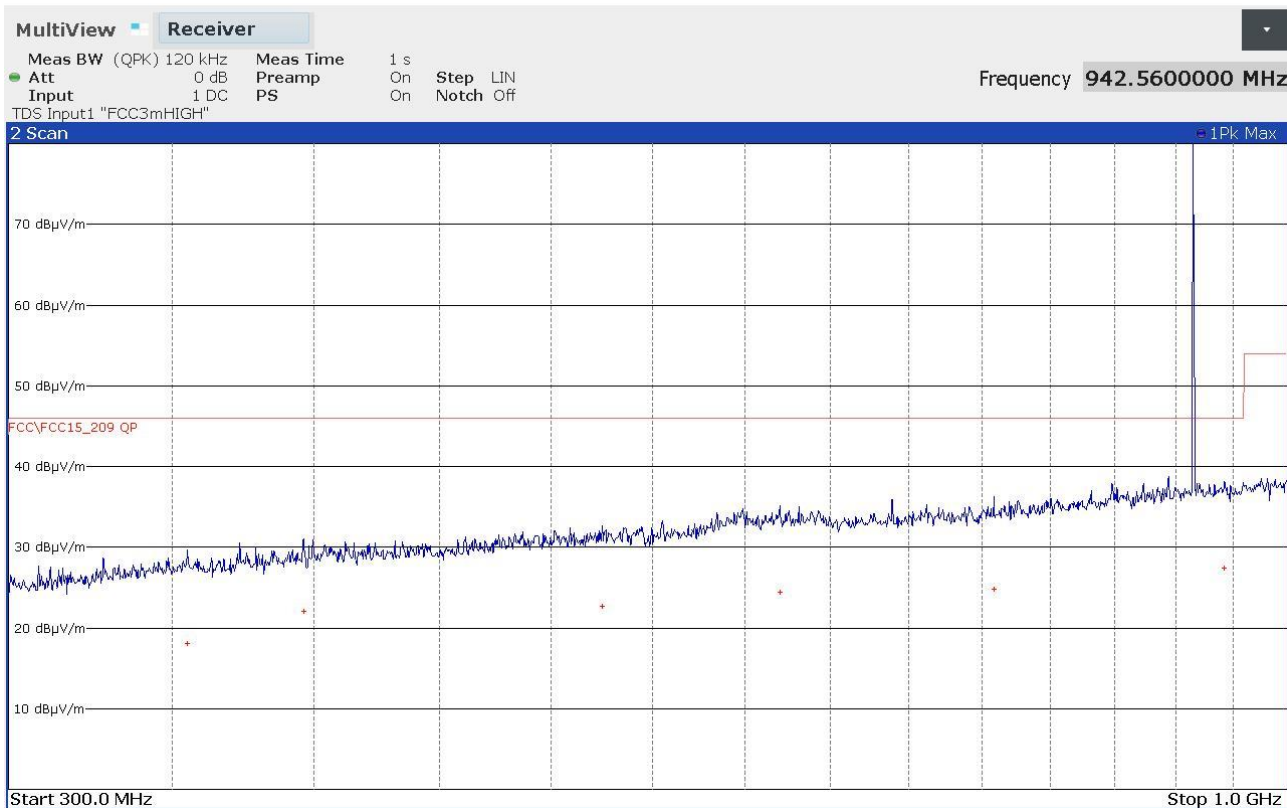


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
356760000	+18,00	-28,02
442880000	+20,75	-25,27
545680000	+22,25	-23,77
631800000	+24,51	-21,51
810760000	+25,88	-20,14
923640000	+38,55	-7,47

22157614\_2

Segalla 22157615

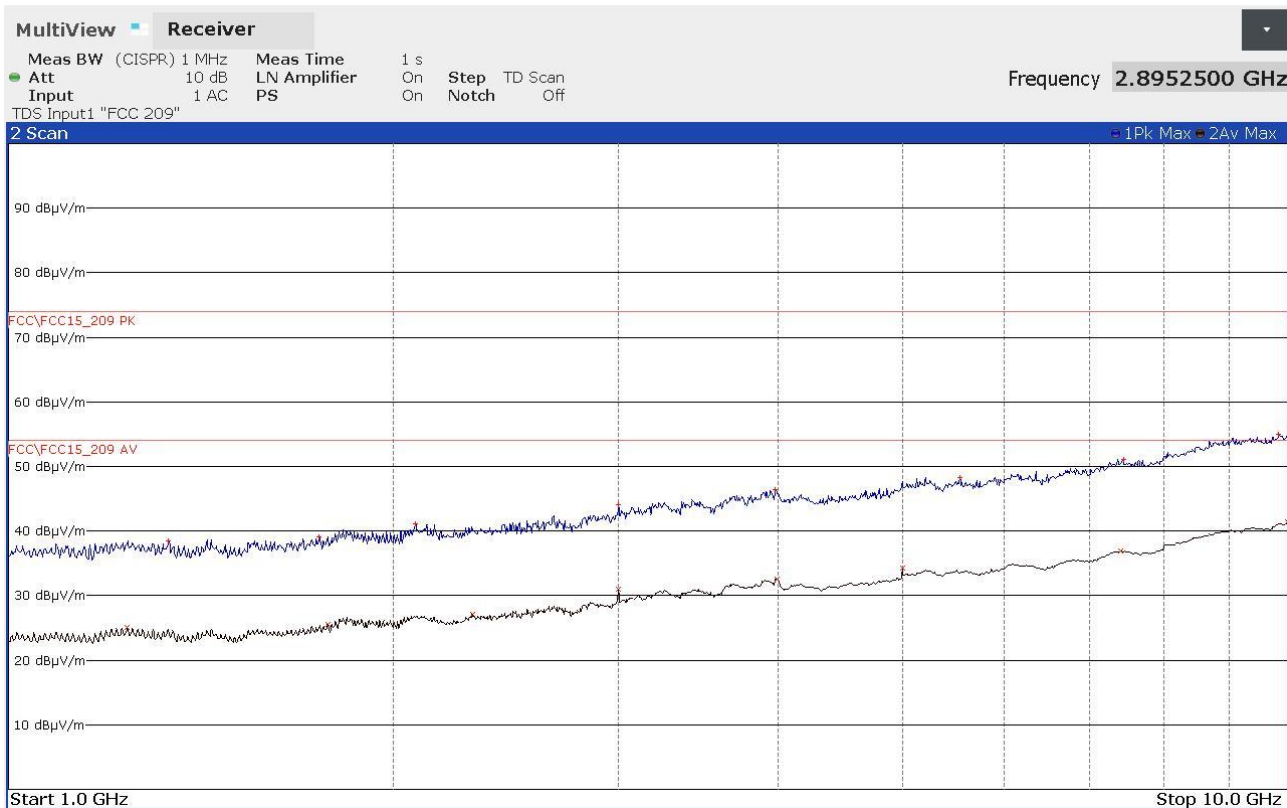


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
355000000	+18,13	-27,89
396000000	+22,10	-23,92
524680000	+22,64	-23,38
620240000	+24,41	-21,61
758520000	+24,75	-21,27
942560000	+27,44	-18,58

22157615\_2

Segalla 22157650



FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1333250000	+38,50	-35,48	1238500000	+25,03	-28,95
1750000000	+39,15	-34,83	1776250000	+25,48	-28,50
2082000000	+41,17	-32,81	2304250000	+27,03	-26,95
2999750000	+44,02	-29,96	2999750000	+31,00	-22,98
3978000000	+46,36	-27,62	3988500000	+32,52	-21,46
5548250000	+48,34	-25,64	4999750000	+34,27	-19,71
7440750000	+51,06	-22,92	7411000000	+36,94	-17,04
9839250000	+55,05	-18,93	10000000000	+41,36	-12,62

22157650\_2