

RF Test Report

Applicant : Verkada Inc
Product Name : Touchscreen Intercom
Trade Name :  Verkada
Model Number : TK74-HW
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
Received Date : Jul. 29, 2026
Test Period : Aug. 20, 2026 ~ Aug. 31, 2026
Issued Date : Sep. 15, 2026

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz
Bade test site :
Test Firm Registration Number: 226252
Test Firm Designation Number: TW0010
Wugu test site :
Test Firm Registration Number: 191812
Test Firm Designation Number: TW0034

Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Description	Revised by
00	Sep. 15, 2026	Initial Issue	Snow Wang

Verification of Compliance

Applicant : Verkada Inc

Product Name : Touchscreen Intercom

Trade Name :  Verkada

Model Number : TK74-HW

FCC ID : 2AWUU60B8301

Applicable Standard : FCC 47 CFR PART 15 SUBPART C

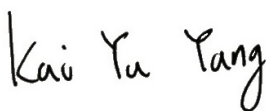
Test Result : Complied

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Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By :



Kai Yu Yang / RF Supervisor

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1 General Information

1.1. Summary of Test Result

Standard	Item	Results	Remark
15.203	Antenna Requirement	Meet Require	---
15.207(a)	AC Power Conducted Emission	PASS	---
15.205 (a) 15.209 (a)	Radiated Emission Limits	PASS	---
15.215(c)	20 dB Bandwidth	-----	---

Decision Rule

- ☒ Uncertainty is not included.
☐ Uncertainty is included.

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63.10-2020+Cor.1-2023	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.
 Site Address: ☐ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)
 Site Address: ☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Test Item	Frequency	Uncertainty				
		BD		WG		
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB		2.6 dB		
Test Item	Frequency	Uncertainty				
		96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission	9 kHz ~ 30 MHz	1.8 dB	1.8 dB	1.6 dB	1.6 dB	1.6 dB
	30 MHz ~ 1000 MHz	4.6 dB	4.7 dB	4.7 dB	4.7 dB	4.6 dB
	1000 MHz ~ 18000 MHz	4.4 dB	4.5 dB	4.6 dB	4.7 dB	4.8 dB
	18000 MHz ~ 26500 MHz	3.7 dB	3.8 dB	3.9 dB	4.1 dB	4.4 dB
	26500 MHz ~ 40000 MHz	3.9 dB	3.9 dB	4.1 dB	4.1 dB	4.5 dB

1.4. Test Site Environment

Items	Required (IEC 60068-1)	Interval(*)
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

(*)The measurement ambient temperature is within this range.

2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity

Applicant	Verkada Inc 405 E. 4th Ave. San Mateo California 94401 United States
Product Name	Touchscreen Intercom
Trade Name	 Verkada
Model Number	TK74-HW
FCC ID	2AWUU60B8301
Frequency Range	125 kHz
Modulation Type	FSK
Number of Channels	1 Channel
Antenna Type	Loop antenna
Operate Temp. Range	-40 ~ +50 °C
EUT Power Rating	from PoE 42.5-57 Vdc, 0.92-0.69 A

Note : All measurements were performed radiated and therefore additional antenna gain is not required.

Testing Sample No.	
Test Item	Sample Number
Radiated Emissions	C267319_A006
Conducted Emission	C267319_A002

3 Test Methodology

3.1. Mode of Operation

The following test mode(s) were scanned during the preliminary test :

Pre-Test Mode	Final-Test Mode
Transmit Mode	V

After verification, all tests were carried out with the worst case test modes.

Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation.

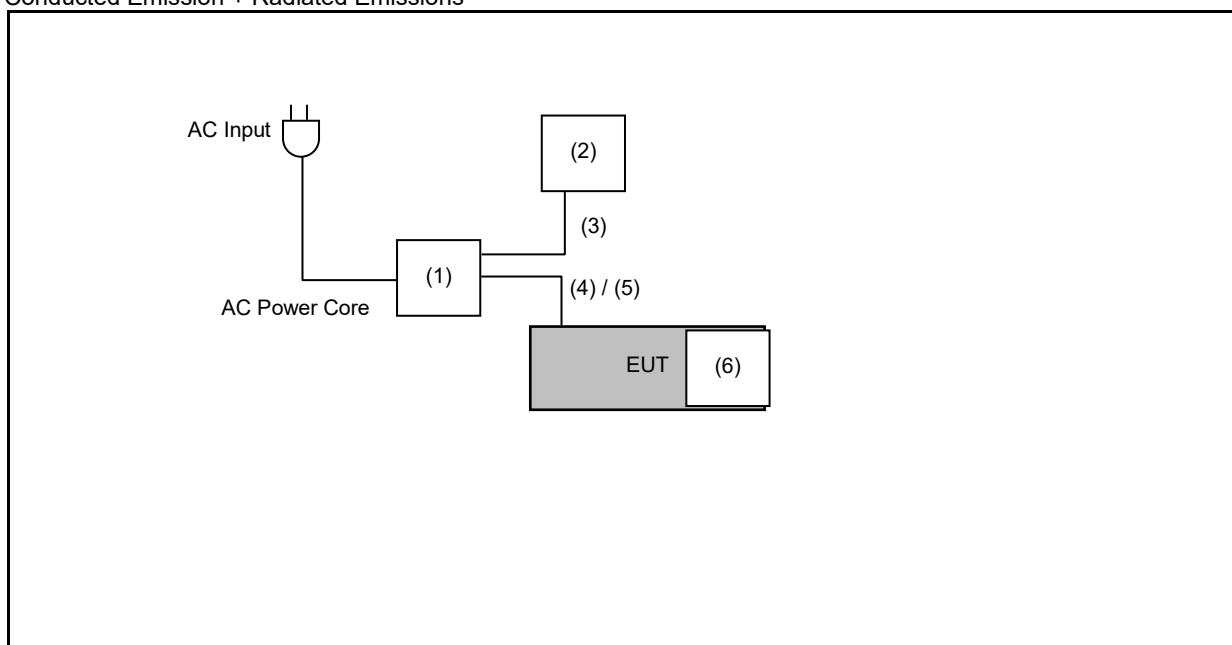
Test Mode	Frequency (MHz)	Test Software Version
Transmit Mode	0.125	Engineering Mode

3.2. EUT Test Step

1.	Setup the EUT shown on "Configuration of Test System Details."
2.	Turn on the power of all equipment.
3.	The EUT will start to operate function.

3.3. Configuration of Test System Details

Conducted Emission + Radiated Emissions



	Product	Manufacturer	Model Number	Note
(1)	PoE Adapter	Cambium Networks	NET-P60-56IN	Specification: Input: 100-240 Vac, 1.7 A, 50-60Hz Output: 56.0 Vdc, 1.07 A 60.0 W
(2)	Notebook	ASUS	P1448U	---
(3)	Lan Cable	I-gota	RJ-MW6A-003	---
(4)	Lan Cable	Urban Inspiration	UTP CAT.5e TIA/EIA	---
(5)	Lan Cable	POLYWELL	UTP CAT.6 TIA/EIA, 15M 1000BASE-T 250MHz	---
(6)	NFC/RFID Card	PSA	Chewie	---

3.4. Test Instruments

For Conduction Emissions

Test Period: Aug. 24, 2026

Testing Engineer: Jason Yeh

Radiation test sites		Conducted Emission Measurement Conduction01-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESR3	102919	Nov. 25, 2025	1 year
☒	LISN	R&S	ENV216	101041	Apr. 02, 2026	1 year
☒	ISN	R&S	ENY81-CA6	101948	Nov. 20, 2025	1 year
☒	Current Probe	R&S	EZ-17	101687	Jun. 12, 2025	2 year
☒	Cable	EMCI	EMCCFD300-BM-NM-4000	220402	Jun. 24, 2026	1 year
☒	Software	ELEKTRA	94.50.4	N.A.	N.C.R.	N.C.R.

For Conducted

Test Period: Aug. 27, 2026 ~ Aug. 31, 2026

Testing Engineer: Ian Lin

Test Site		RF03-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	R&S	FSV3044	101416	Dec. 3, 2025	1 year
☒	Temperature & Humidity Chamber	GiantForce	GTH-408-40-CP-SD	MAA2202-001	Dec. 29, 2025	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: Aug. 20 ~ Aug. 24, 2026
Testing Engineer: Jason Yeh

Radiation test sites		Semi Anechoic Room 96603-WG				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	LOOP Antenna (9 kHz~30 MHz)	Schwarzbeck Mess-Elektronik	FMZB 1513-60	00031	Mar. 16, 2026	1 year
☒	Trilog Broadband Antenna (30 MHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	1276	Jan. 26, 2026	1 year
☒	Spectrum Analyzer (2 Hz~50 GHz)	KEYSIGHT	N9030B	MY57143537	Mar. 21, 2026	1 year
☒	Pre-Amplifier	EMCI	EMC001330	980859	Nov. 26, 2025	1 year
☒	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211009	Nov. 10, 2025	1 year
☒	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-2000	211010	Nov. 10, 2025	1 year
☒	Coaxial Cable (9 kHz~1000 MHz)	EMCI	EMCCFD400-NM- NM-6000	211018	Nov. 10, 2025	1 year
☒	Software	R_RAM	V1.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request

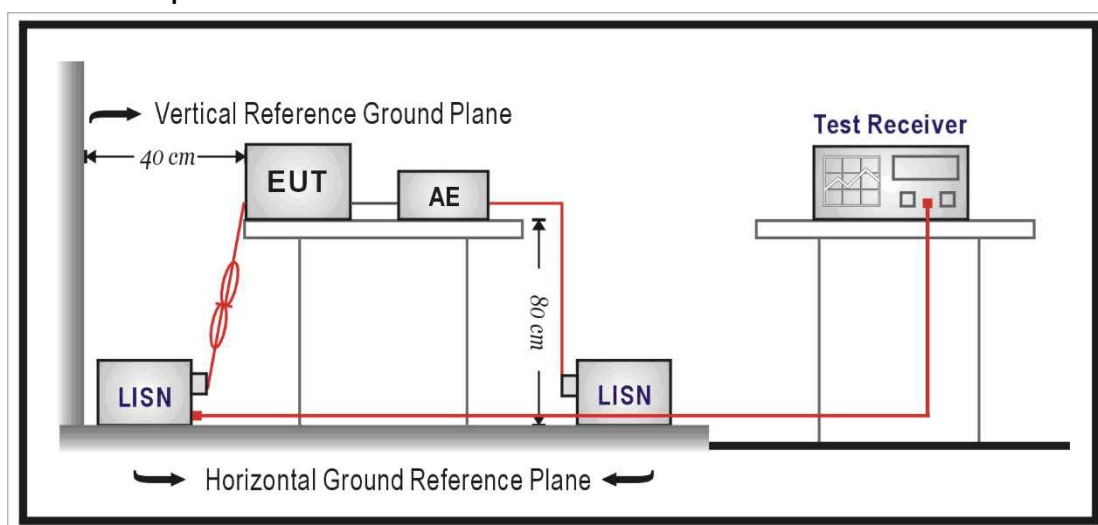
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ Test Setup



■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\ \Omega // 50\ \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\ \Omega // 50\ \mu\text{H}$ coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

4.2. Radiated Emission Measurement

■ Limit

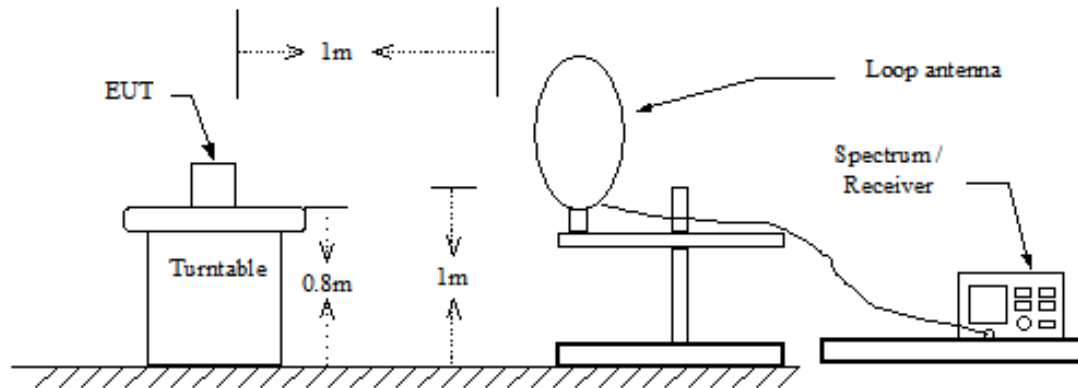
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at meter)	Measurement Distance (meter)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

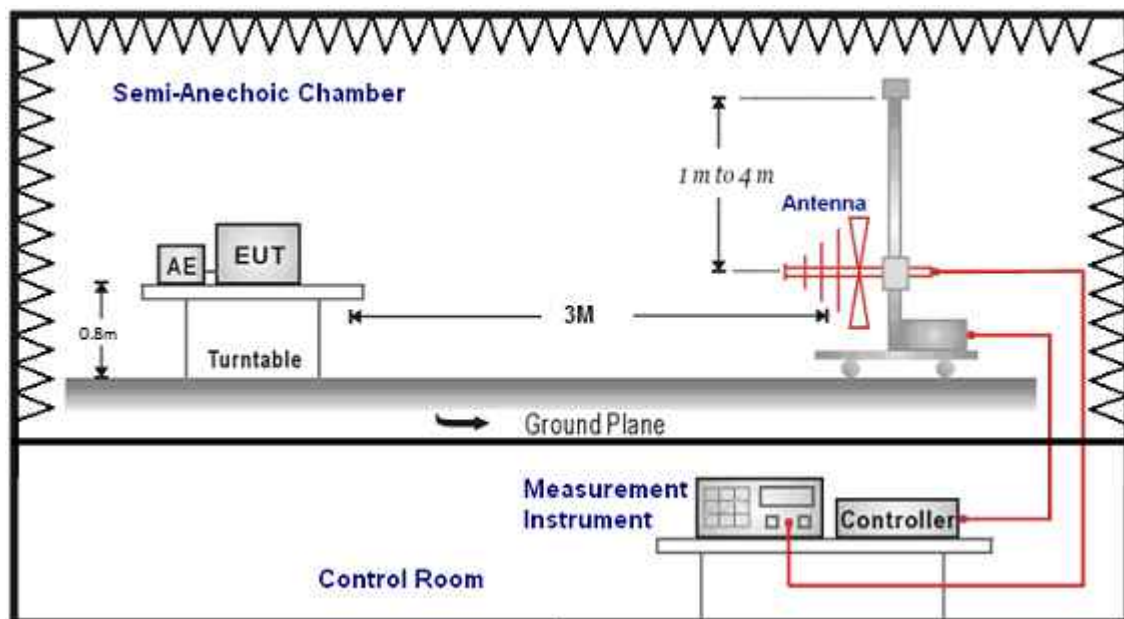
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

■ Setup

9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



■ Test Procedure

Final radiation measurements were made on a three-meter Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. During the test, EUT was set to transmit continuously & Measurement's spectrum range from 9 kHz to 26 GHz (or 9 kHz to 10th harmonic) is investigated.

For measurements below 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz, the resolution bandwidth was set to 1 MHz, and the video bandwidth was set to 3 MHz for peak measurements, and the average measurements were performed using a duty cycle correction factor.

Note:

- (1) DCCF (dB) = $20 \times \log (\text{maximum dwell time within } 100 \text{ ms} / 100)$
- (2) Average Emission (dBuV/m) = Peak Emission (dBuV/m) + DCCF (dB)

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Biconilog/Horn Antenna were used in frequency 30 MHz to 18 GHz at a distance of 3 meter. Loop/Horn Antenna was used in frequency 9 kHz to 30 MHz and 18 to 26 GHz at a distance of 1 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Result (dBuV/m) = Reading (dBuV) + Correct Factor (dB/m)

Correct Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB)

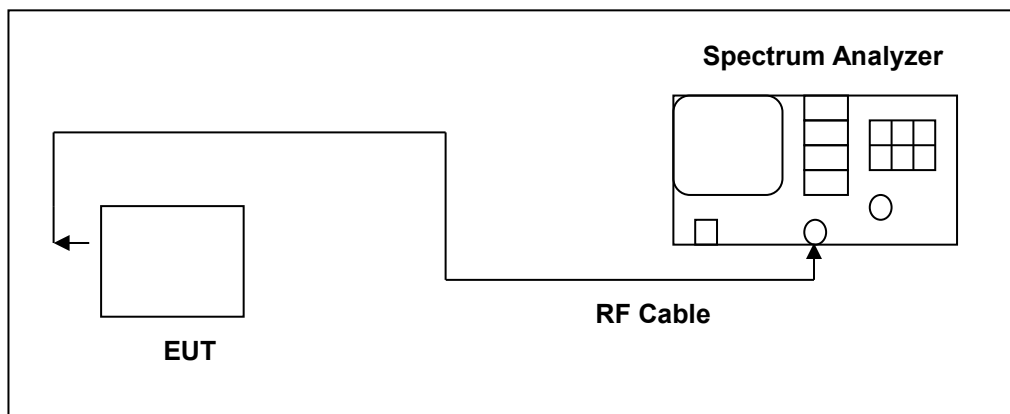
Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

4.3. 20 dB Bandwidth Measurement

■ Limit

N/A

■ Test Setup



■ Test Procedure

For 20 dB Bandwidth:

Analyzer used the following settings:

1. Span = between 2 times and 5 times the OBW
2. RBW = 1 % to 5 % of the OBW (Not less than 0.1 kHz)
3. VBW $\geq 3 \times$ RBW
4. Detector function = peak
5. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The marker-delta function was used to measure 20 dB down one side of the emission. The marker-delta function and marker was moved to the other side of the emission until it was even with the reference marker. The marker-delta reading at this point was the 20 dB bandwidth of the emission.

4.4. Antenna Requirement

■ Require

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.

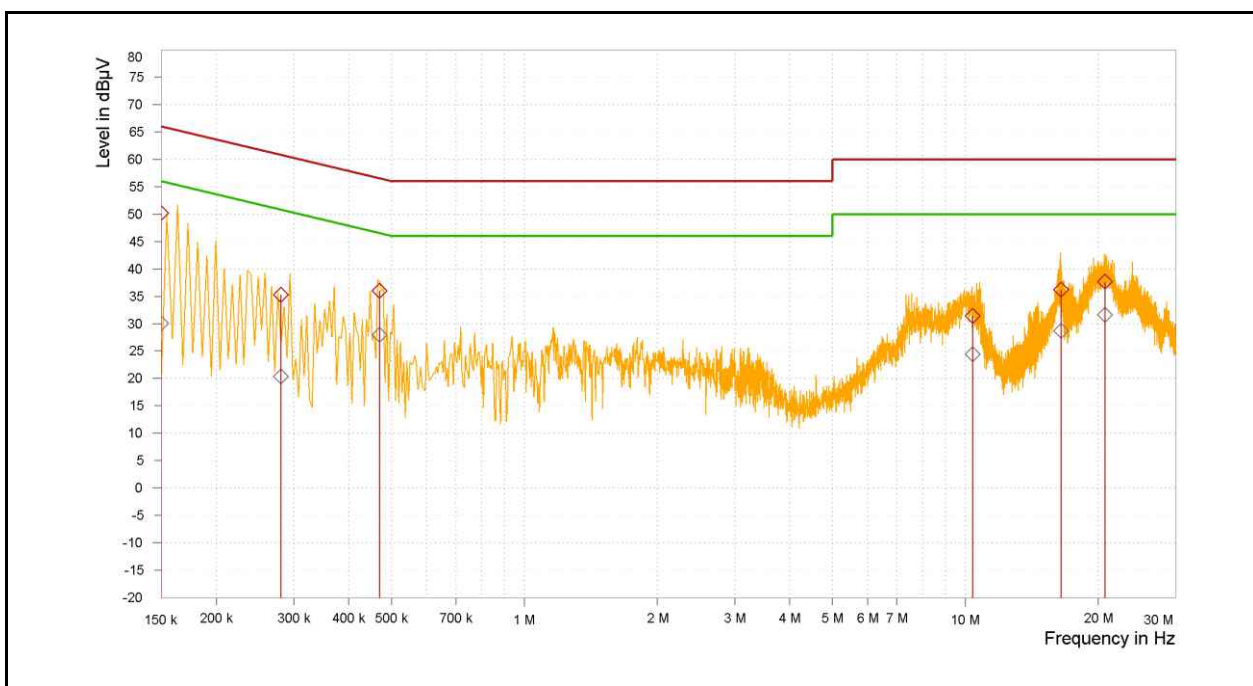
■ Antenna Connector Construction

See section 2 – antenna information.

5 Test Results

5.1. Conducted Emission

Standard:	Part 15.207	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			

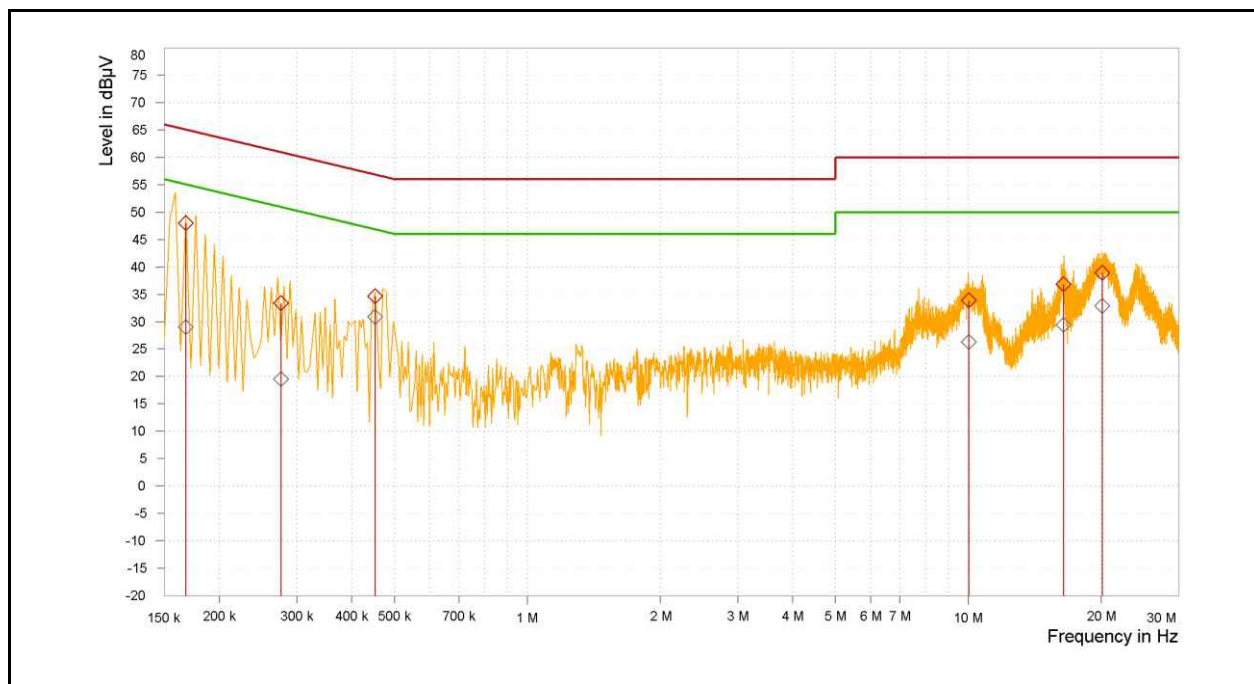


Rg	Frequency [MHz]	QP Result [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Result [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Correction factor [dB]	Line
1	0.150	50.21	66.00	15.79	30.07	56.00	25.93	9.63	L1
1	0.281	35.29	60.80	25.52	20.32	50.80	30.48	9.59	L1
1	0.470	35.95	56.52	20.57	27.94	46.52	18.59	9.59	L1
1	10.383	31.44	60.00	28.56	24.37	50.00	25.63	9.75	L1
1	16.476	36.18	60.00	23.82	28.67	50.00	21.33	9.79	L1
1	20.715	37.69	60.00	22.31	31.62	50.00	18.38	9.80	L1

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	Part 15.207	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			



Rg	Frequency [MHz]	QP Result [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Result [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Correction factor [dB]	Line
1	0.168	48.04	65.06	17.02	29.01	55.06	26.05	9.64	N
1	0.276	33.42	60.94	27.51	19.53	50.94	31.41	9.63	N
1	0.452	34.66	56.85	22.19	30.89	46.85	15.96	9.63	N
1	10.028	33.94	60.00	26.06	26.34	50.00	23.66	9.81	N
1	16.458	36.88	60.00	23.12	29.43	50.00	20.57	9.94	N
1	20.126	38.87	60.00	21.13	32.82	50.00	17.18	9.98	N

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

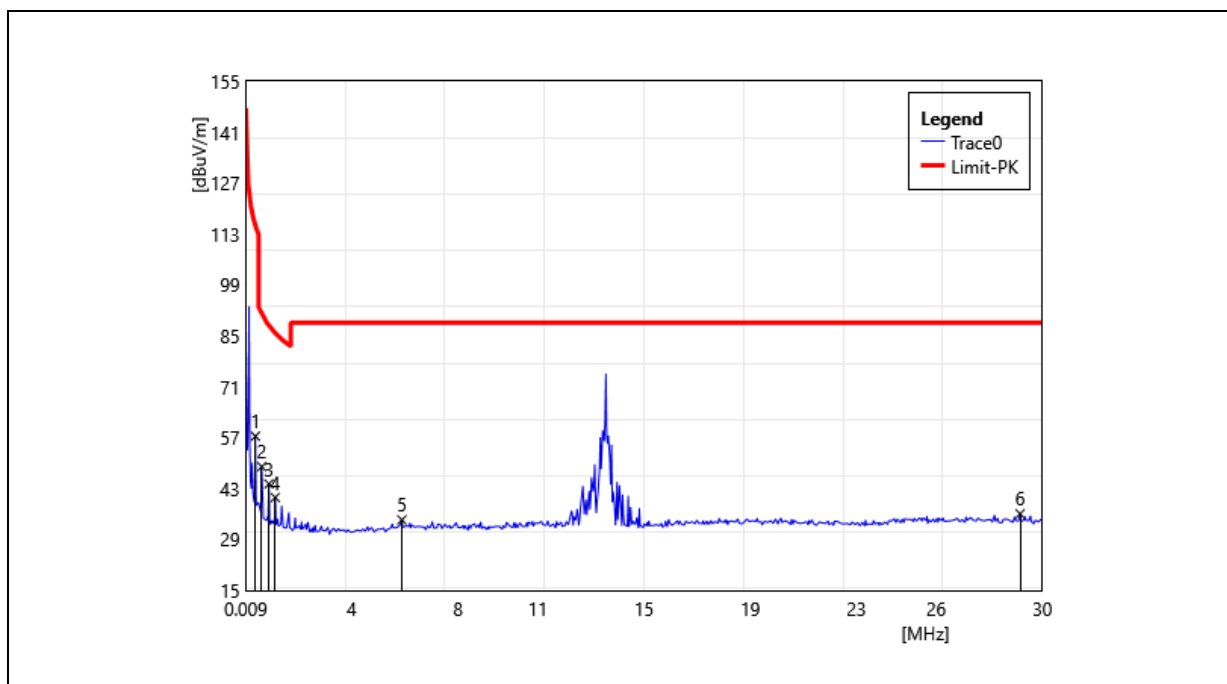
2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

5.2. Radiated Emission Measurement

Harmonic

9 kHz ~ 30 MHz:

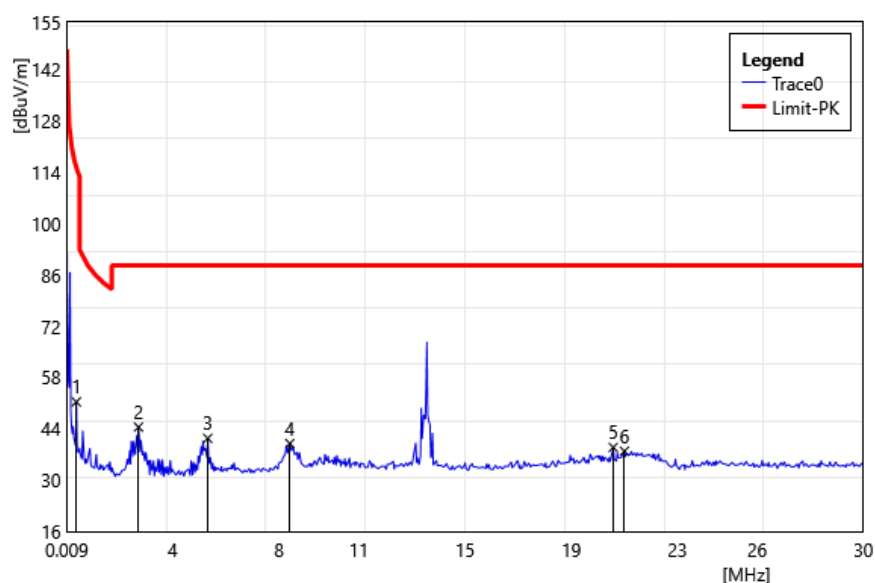
Standard:	FCC Part 15C	Test Distance:	300/30 m
Test item:	Harmonic		
Mode:	Transmit Mode		
Ant. Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.37	69.05	-11.63	57.42	-34.34	16.24	-50.58	PEAK
2	0.61	60.54	-11.49	49.05	-18.36	31.90	-50.26	PEAK
3	0.88	55.90	-11.60	44.30	-19.93	28.71	-48.65	PEAK
4	1.12	52.11	-11.55	40.56	-21.58	26.62	-48.20	PEAK
5	5.89	44.97	-10.56	34.41	-13.31	29.54	-42.86	PEAK
6	29.16	45.00	-8.92	36.08	2.24	29.54	-27.30	PEAK

Note: The level is measured at 1 meter and is converted into result at 300 or 30 meter.

Standard:	FCC Part 15C	Test Distance:	300/30 m
Test item:	Harmonic		
Mode:	Transmit Mode		
Ant. Polar.:	Vertical		

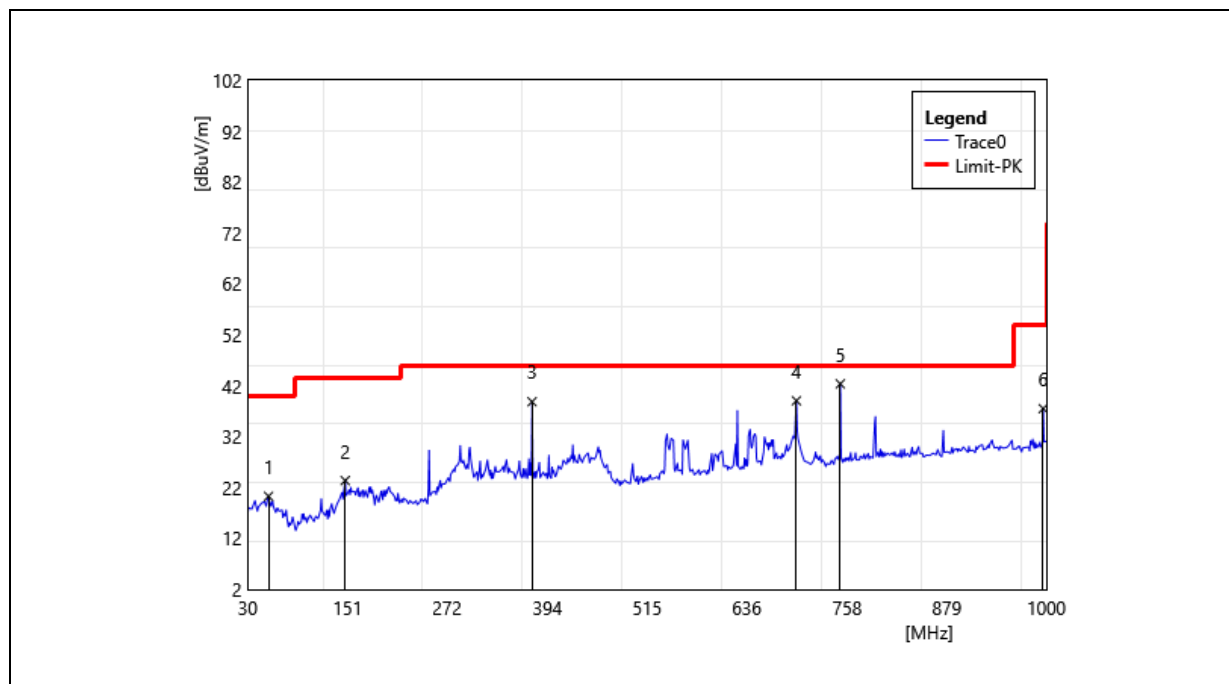


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.37	63.01	-11.63	51.38	-40.38	16.24	-56.62	PEAK
2	2.71	56.40	-11.90	44.51	-9.95	29.54	-39.49	PEAK
3	5.32	52.64	-11.22	41.42	-7.18	29.54	-36.72	PEAK
4	8.41	50.75	-10.74	40.01	-4.62	29.54	-34.16	PEAK
5	20.58	48.38	-9.42	38.96	2.11	29.54	-27.43	PEAK
6	21.00	47.43	-9.50	37.93	1.27	29.54	-28.28	PEAK

Note: The level is measured at 1 meter and is converted into result at 300 or 30 meter.

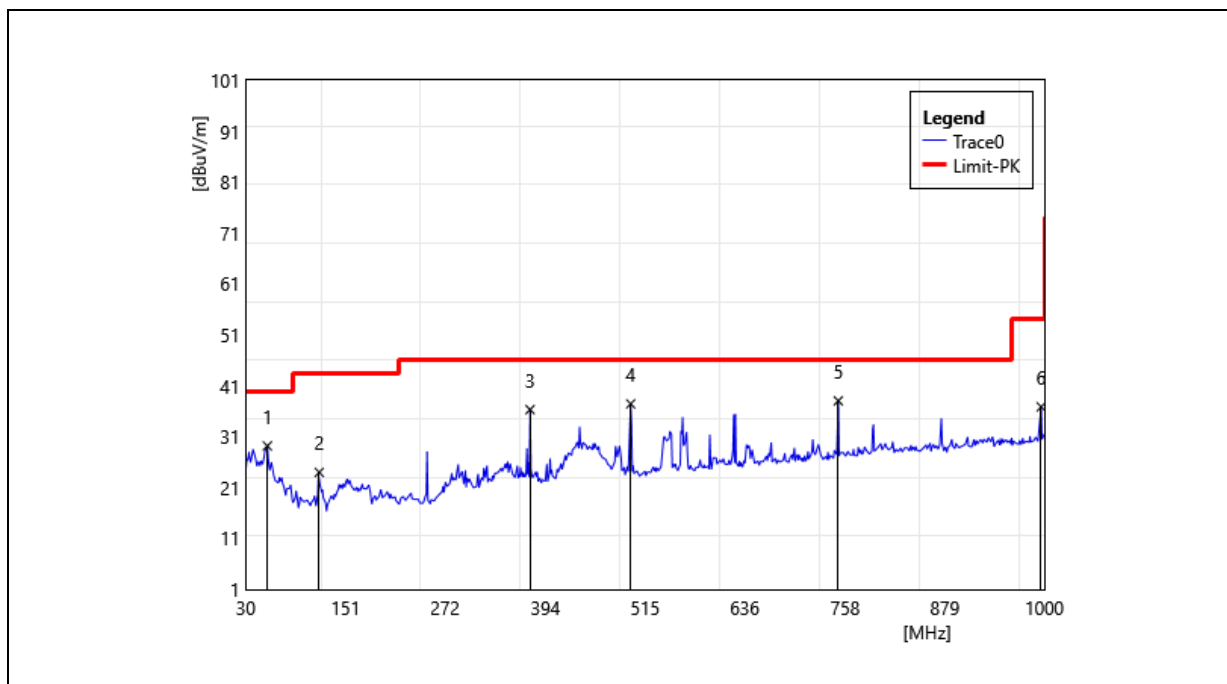
30 MHz ~ 1 GHz:

Standard:	FCC Part 15C	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Transmit Mode		
Ant. Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	55.22	31.95	-11.66	20.29	40.00	-19.71	QP
2	148.34	35.11	-11.73	23.39	43.50	-20.12	QP
3	375.32	48.14	-9.27	38.87	46.00	-7.13	QP
4	696.39	42.29	-3.23	39.06	46.00	-6.94	QP
5	749.74	44.66	-2.27	42.39	46.00	-3.61	QP
6	996.12	36.88	0.63	37.51	54.00	-16.49	QP

Standard:	FCC Part 15C	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Transmit Mode		
Ant. Polar.:	Vertical		



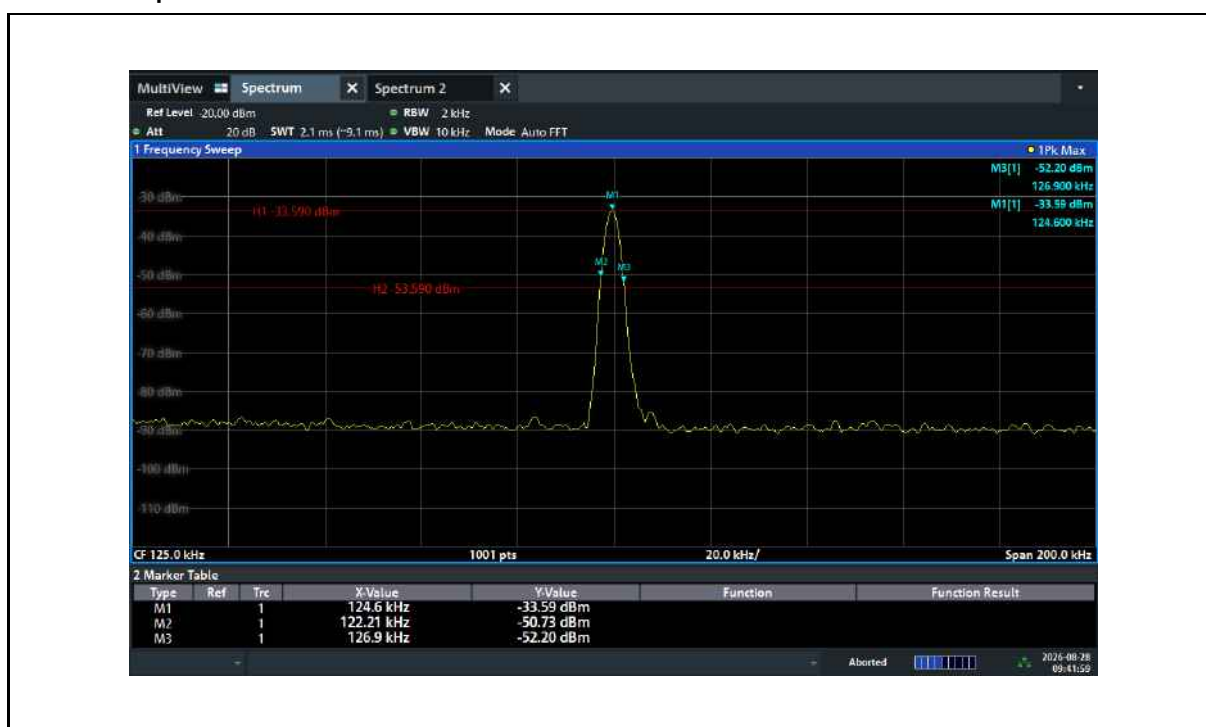
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	56.19	40.84	-11.66	29.18	40.00	-10.82	QP
2	119.24	38.26	-14.27	23.99	43.50	-19.51	QP
3	375.32	45.59	-9.27	36.32	46.00	-9.68	QP
4	497.54	44.20	-6.75	37.45	46.00	-8.55	QP
5	749.74	40.32	-2.27	38.05	46.00	-7.95	QP
6	996.12	36.23	0.63	36.86	54.00	-17.14	QP

5.3. Conducted Test Results

20 dB Bandwidth Measurement

Test Mode	Transmit Mode
Frequency (kHz)	20 dB Bandwidth (kHz)
125	4.69

■ Test Graphs



---END---