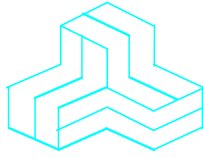


ENGINEERING TEST REPORT



Luxe 6700x
Model: Luxe 6700x
FCC ID: COL-LUXE6700X

Applicant:

NBS Payment Solutions Inc.
703 Evans Ave., Suite 400
Toronto, Ontario
Canada M9C 5E9

In Accordance With

Federal Communications Commission (FCC)
Part 15, Subpart C
Unlicensed Low Power Transmitter Operating in the Band 13.110-14.010 MHz

UltraTech's File No.: 26MIS165FCC15C225

This Test report is Issued under the Authority of
Tri M. Luu
Vice President of Engineering
UltraTech Group of Labs

Date: May 6, 2026

Report Prepared by: Dan Huynh

Tested by: Angus Au

Issued Date: May 6, 2026

Test Date(s):
March 16-17, 2026

- *The results in this Test Report apply only to the sample(s) tested, and the sample tested is randomly selected.*
- *This report must not be used by the client to claim product endorsement by any agency of the US Government.*
- *This test report shall not be reproduced, except in full, without a written approval from UltraTech*

UltraTech

3000 Bristol Circle, Oakville, Ontario, Canada, L6H 6G4
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Website: www.ultratech-labs.com, Email: vic@ultratech-labs.com, Email: tri@ultratech-labs.com



Lab Code: 0685



APEC TEL CA0001



1309



CA 0001/2049



AT-1945



SL2-IN-E-1119R



Korea KCC-RRR
CA0001

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EXHIBIT 1. INTRODUCTION

1.1. SCOPE

Reference:	FCC Part 15, Subpart C, Sec. 15.225 - Operation within the band 13.110 - 14.010 MHz
Title:	Code of Federal Regulations (CFR), Title 47 Telecommunication, Part 15, Subpart C Intentional Radiators
Purpose of Test:	Class II Permissive Changes for integration of transmitter module into a mobile host with new antenna type and collocated with 13.56 MHz RFID reader.
Test Procedures:	ANSI C63.4 and ANSI C63.10
Environmental Classification:	Commercial, industrial or business environment

1.2. RELATED SUBMITTAL(S)/GRANT(S)

None.

1.3. NORMATIVE REFERENCES

Publication	Year	Title
FCC 47 CFR 15	2026	Code of Federal Regulations (CFR), Title 47 – Telecommunication, Part 15 – Radio Frequency Devices
ANSI C63.4	2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40 GHz
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

EXHIBIT 2. PERFORMANCE ASSESSMENT

2.1. CLIENT INFORMATION

Applicant	
Name:	NBS Payment Solutions Inc.
Address:	703 Evans Avenue, Suite 400 Toronto, Ontario Canada M9C 5E9

Manufacturer	
Name:	NBS Payment Solutions Inc.
Address:	703 Evans Avenue, Suite 400 Toronto, Ontario Canada M9C 5E9

2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION

The following information (with the exception of the Date of Receipt) has been supplied by the applicant.

Brand Name:	NBS Payment Solutions Inc.
Product Name:	Luxe 6700x
Model Name or Number:	Luxe 6700x
Serial Number:	Test sample
Type of Equipment:	Part 15 Low Power Communication Device Transmitter
Input Power Supply Type:	DC: 9V via AC Adapter
Primary User Functions of EUT:	Point of Sale credit/debit financial transactions

2.3. EUT'S TECHNICAL SPECIFICATIONS

Transmitter	
Intended Operating Environment:	Commercial, light industry & heavy industry
Power Supply Requirement:	9 VDC
Field Strength:	47.51 dB μ V/m at 10 m
Operating Frequency Range:	13.56 MHz
RF Output Impedance:	50 Ω
Modulation Type:	ASK
Antenna Connector Type:	Integral, PCB Loop Antenna

The EUT contained an integrated certified Murata Manufacturing Co., Ltd. WLAN+Bluetooth Module (FCC ID: VPYLB2AE).

2.4. LIST OF EUT'S PORTS

Port Number	EUT's Port Description	Number of Identical Ports	Connector Type	Cable Type (Shielded/Non-shielded)
1	Main Connector	1	ShenZhen ZengChuang Connector: UC24FTN6B001	2m, non-shielded
2	Earphone Jack	1	Oupiin: 8965-3505ADT	1m, non-shielded

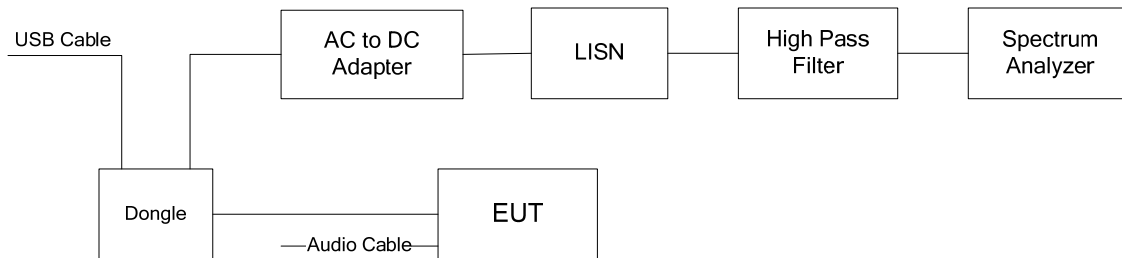
2.5. ANCILLARY EQUIPMENT

The EUT was tested while connected to the following representative configuration of ancillary equipment necessary to exercise the ports during tests:

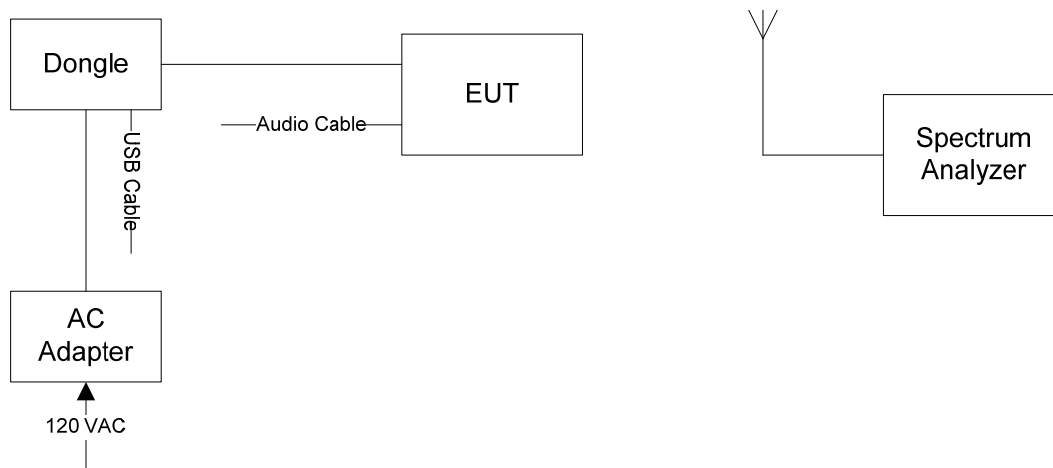
AC Adapter, Model ATS018T-P090

2.6. GENERAL TEST SETUP

2.6.1. Conducted Emissions

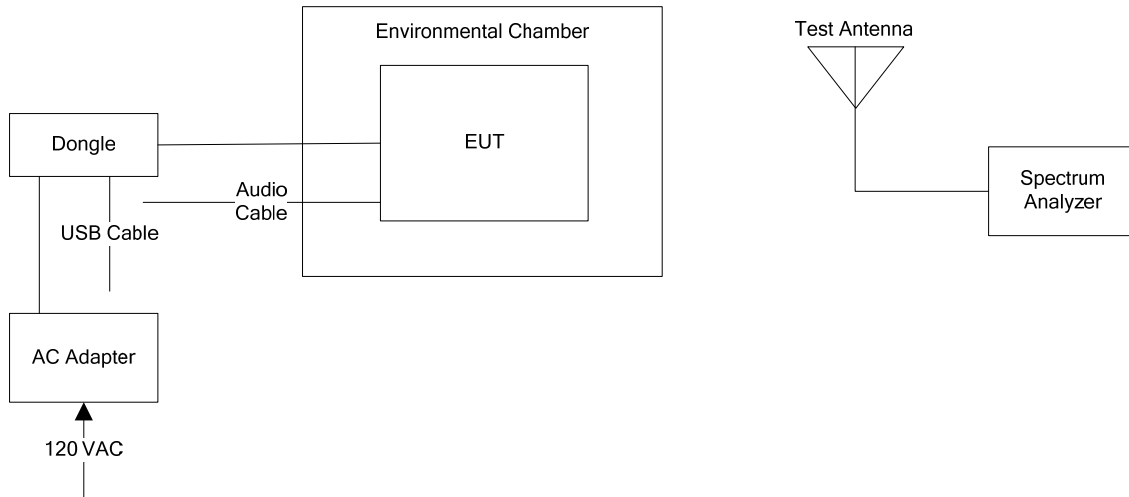


2.6.2. Radiated Emissions



2.6.3. Frequency Stability Test Setup

Temperature Variation Test Setup



Voltage Variation Test Setup

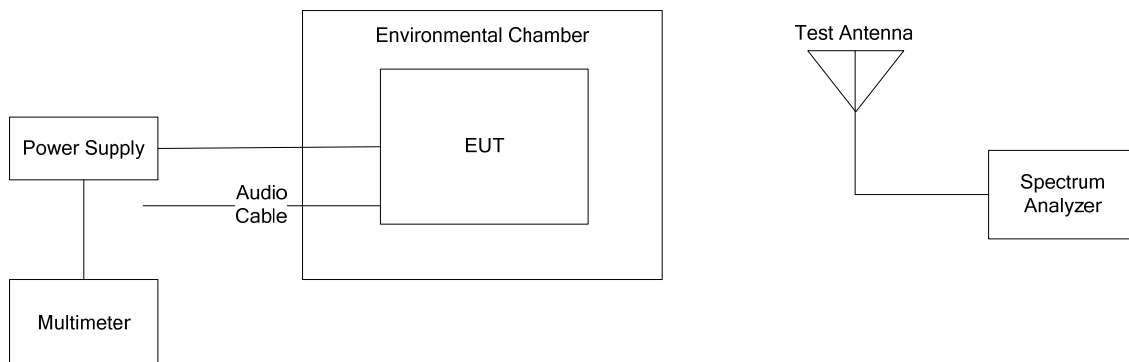


EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS

3.1. CLIMATE TEST CONDITIONS

The climate conditions of the test environment are as follows:

Temperature:	21 to 23 °C
Humidity:	45 to 58%
Pressure:	102 kPa
Power input source:	9 VDC via AC Adapter

3.2. OPEPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TESTS

Operating Modes:	The EUT was configured for continuous transmission for the duration of testing.
Special Test Software:	N/A
Special Hardware Used:	N/A
Transmitter Test Antenna:	The EUT was tested with the antenna fitted in a manner typical of normal intended use as integral antenna equipment.

Transmitter Test Signals:	
Frequency Band(s):	13.56 MHz
Test Frequency(ies):	13.56 MHz
Transmitter Wanted Output Test Signals:	
▪ RF Power Output (measured maximum output power):	47.51 dBμV/m at 10 m
▪ Normal Test Modulation:	ASK
▪ Modulating signal source:	Internal

EXHIBIT 4. SUMMARY OF TEST RESULTS

4.1. TEST LAB AND LOCATION

Company Name:	Ultratech Engineering labs Inc.	
Address:	3000 Bristol Circle, Oakville, Ontario, Canada, L6H 6G4 Tel.: (905) 829-1570 Fax.: (905) 829-8050 Website: www.ultratech-labs.com ,	
Test Site/Company Number:	FCC	ISED
	MRA: APEC TEL Designation no. CA0001 FRN: 0003781366	Company No.: 2049A CAB Identifier: CA0001

4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS

FCC Regulations	Test Requirements	Compliance (Yes/No)
15.203	Antenna Requirement	Yes*
15.207(a)	Power Line Conducted Emissions	Yes
15.215(c)	Emission Bandwidth	Yes
15.225(a) – (d)	Field Strength of Emissions Inside and Outside the Permitted Band 13.110 - 14.010 MHz	Yes
15.225(e)	Frequency Stability	Yes

* The EUT complies with the requirement; it employs integral antenna.

4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES

None.

ULTRATECH GROUP OF LABS

3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

File #: 26MIS165FCC15C225
May 6, 2026

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

EXHIBIT 5. TEST DATA

5.1. POWER LINE CONDUCTED EMISSIONS [§15.207(a)]

5.1.1. Limit(s)

The equipment shall meet the limits of the following table:

Frequency of emission (MHz)	Conducted Limits (dBµV)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases linearly with the logarithm of the frequency

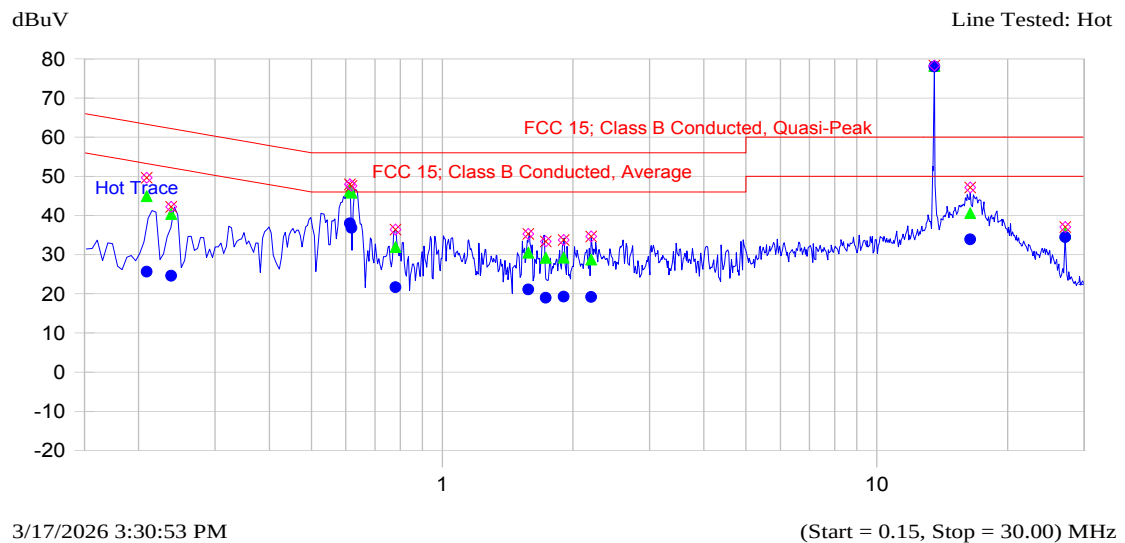
5.1.2. Method of Measurements

ANSI C63.4

5.1.3. Test Data

Plot 5.1.3.1. Power Line Conducted Emissions
Line Voltage: 120 VAC, 60 Hz; Line Tested: Hot Line

Current Graph

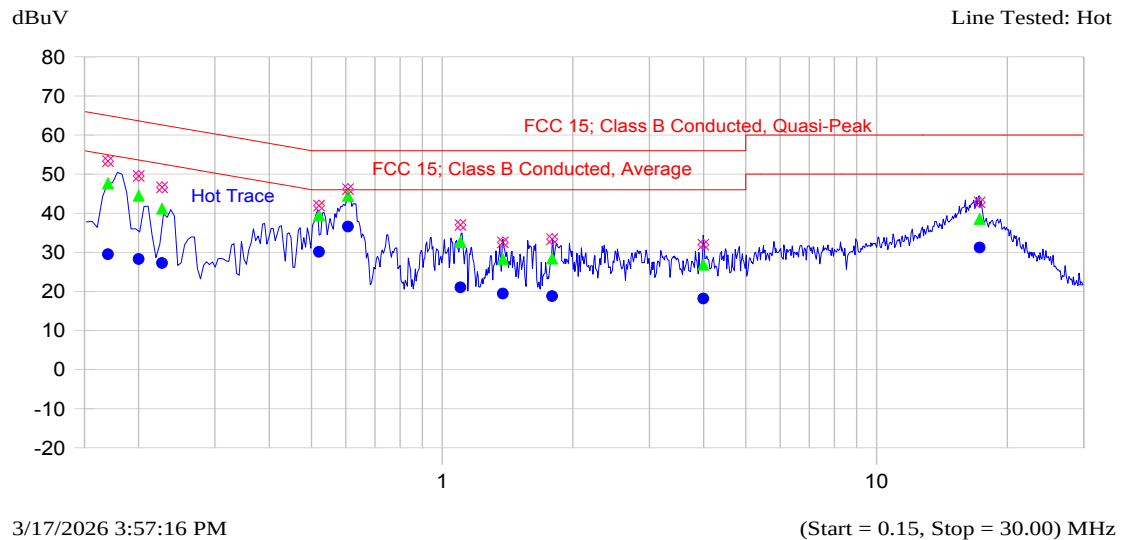


Current List

Frequency MHz	Peak dBuV	QP dBuV	QP-QP Limit dB	Avg dBuV	Avg-Avg Limit dB	Trace Name
0.209	49.6	44.9	-18.3	25.6	-27.6	Hot Trace
0.238	42.2	40.4	-21.8	24.6	-27.6	Hot Trace
0.613	47.9	46.3	-9.7	38.0	-8.0	Hot Trace
0.618	47.6	45.8	-10.2	36.8	-9.2	Hot Trace
0.780	36.4	31.9	-24.1	21.7	-24.3	Hot Trace
1.578	35.3	30.5	-25.5	21.1	-24.9	Hot Trace
1.731	33.4	29.2	-26.8	19.0	-27.0	Hot Trace
1.904	33.7	29.2	-26.8	19.3	-26.7	Hot Trace
2.200	34.6	28.7	-27.3	19.2	-26.8	Hot Trace
13.560	78.3	78.1	18.1	78.0	28.0	Hot Trace
16.407	47.1	40.6	-19.4	33.9	-16.1	Hot Trace
27.120	37.0	35.4	-24.6	34.5	-15.5	Hot Trace

Plot 5.1.3.2. Power Line Conducted Emissions (RF output terminated with a dummy load)
Line Voltage: 120 VAC, 60 Hz; Line Tested: Hot Line

Current Graph

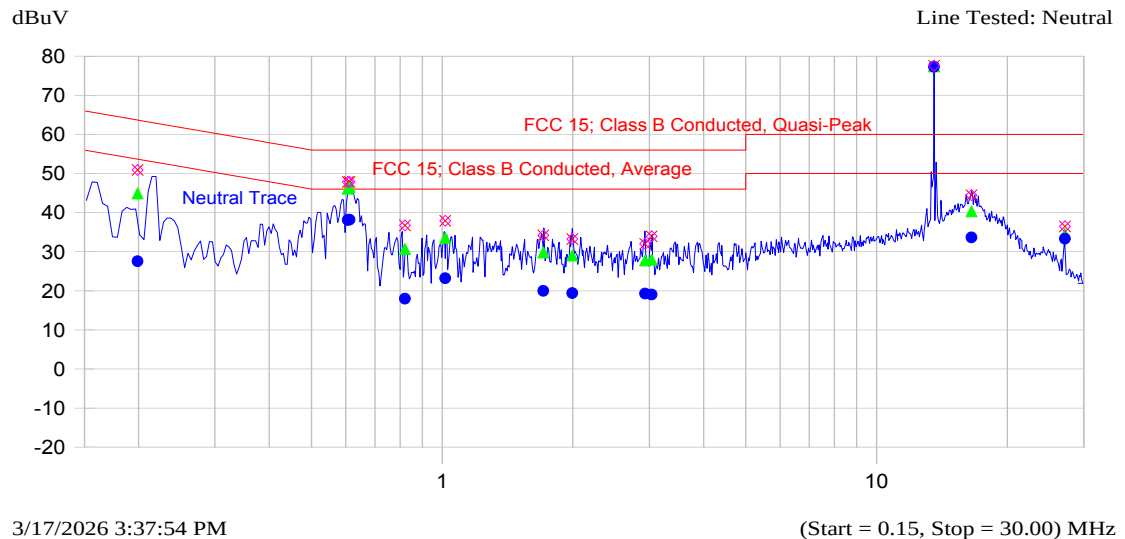


Current List

Frequency MHz	Peak dBuV	QP dBuV	QP-QP Limit dB	Avg dBuV	Avg-Avg Limit dB	Trace Name
0.170	53.3	47.6	-17.4	29.5	-25.5	Hot Trace
0.200	49.5	44.5	-19.1	28.3	-25.3	Hot Trace
0.227	46.6	41.2	-21.4	27.3	-25.3	Hot Trace
0.520	41.9	39.5	-16.5	30.1	-15.9	Hot Trace
0.607	46.2	44.4	-11.6	36.6	-9.4	Hot Trace
1.102	37.0	32.7	-23.3	21.0	-25.0	Hot Trace
1.378	32.5	28.2	-27.8	19.4	-26.6	Hot Trace
1.792	33.4	28.4	-27.6	18.8	-27.2	Hot Trace
3.995	32.0	26.8	-29.2	18.2	-27.8	Hot Trace
17.269	42.7	38.5	-21.5	31.2	-18.8	Hot Trace

Plot 5.1.3.3. Power Line Conducted Emissions
Line Voltage: 120 VAC, 60 Hz; Line Tested: Neutral Line

Current Graph

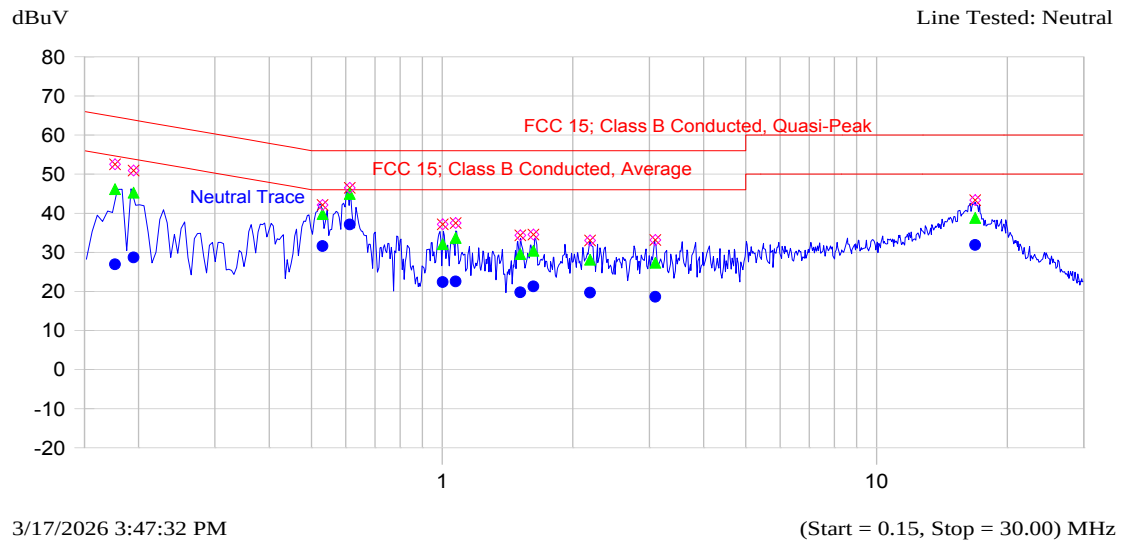


Current List

Frequency MHz	Peak dBuV	QP dBuV	QP-QP Limit dB	Avg dBuV	Avg-Avg Limit dB	Trace Name
0.199	50.9	44.9	-18.8	27.6	-26.1	Neutral Trace
0.606	47.8	46.1	-9.9	38.1	-7.9	Neutral Trace
0.612	47.8	46.5	-9.5	38.2	-7.8	Neutral Trace
0.821	36.7	30.7	-25.3	18.0	-28.0	Neutral Trace
1.017	37.9	33.5	-22.5	23.2	-22.8	Neutral Trace
1.710	34.1	29.8	-26.2	20.0	-26.0	Neutral Trace
1.993	33.2	29.0	-27.0	19.4	-26.6	Neutral Trace
2.933	32.0	27.7	-28.3	19.3	-26.7	Neutral Trace
3.035	33.9	28.0	-28.0	19.0	-27.0	Neutral Trace
13.560	77.5	77.4	17.4	77.3	27.3	Neutral Trace
16.548	44.5	40.3	-19.7	33.6	-16.4	Neutral Trace
27.121	36.4	34.5	-25.5	33.3	-16.7	Neutral Trace

Plot 5.1.3.4. Power Line Conducted Emissions (RF output terminated with a dummy load)
Line Voltage: 120 VAC, 60 Hz; Line Tested: Neutral Line

Current Graph



Current List

Frequency MHz	Peak dBuV	QP dBuV	QP-QP Limit dB	Avg dBuV	Avg-Avg Limit dB	Trace Name
0.177	52.5	46.2	-18.5	26.9	-27.7	Neutral Trace
0.195	50.9	45.2	-18.6	28.7	-25.2	Neutral Trace
0.531	42.1	39.8	-16.2	31.6	-14.4	Neutral Trace
0.613	46.5	44.9	-11.1	37.1	-8.9	Neutral Trace
1.003	37.1	32.1	-23.9	22.4	-23.6	Neutral Trace
1.074	37.5	33.7	-22.3	22.5	-23.5	Neutral Trace
1.512	34.3	29.5	-26.5	19.8	-26.2	Neutral Trace
1.622	34.5	30.4	-25.6	21.2	-24.8	Neutral Trace
2.189	33.0	28.1	-27.9	19.7	-26.3	Neutral Trace
3.095	33.1	27.3	-28.7	18.6	-27.4	Neutral Trace
16.858	43.3	38.8	-21.2	31.9	-18.1	Neutral Trace

5.2. EMISSION BANDWIDTH (15.215 (c))

5.2.1. Limit(s)

The 20 dB bandwidth of the emission shall be contained within the band 13.110–14.010 MHz.

5.2.2. Method of Measurements

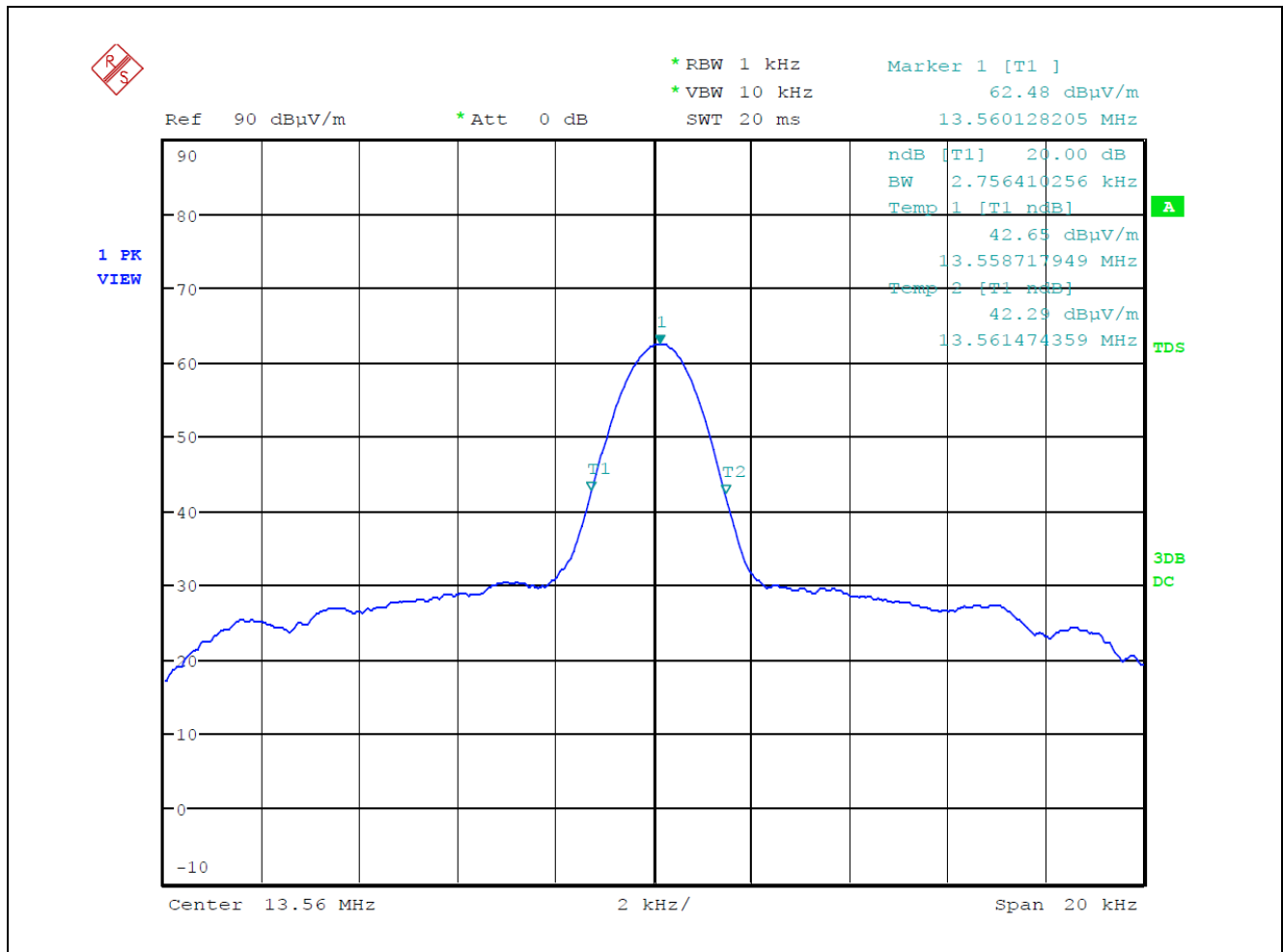
ANSI C63.10.

5.2.3. Test Data

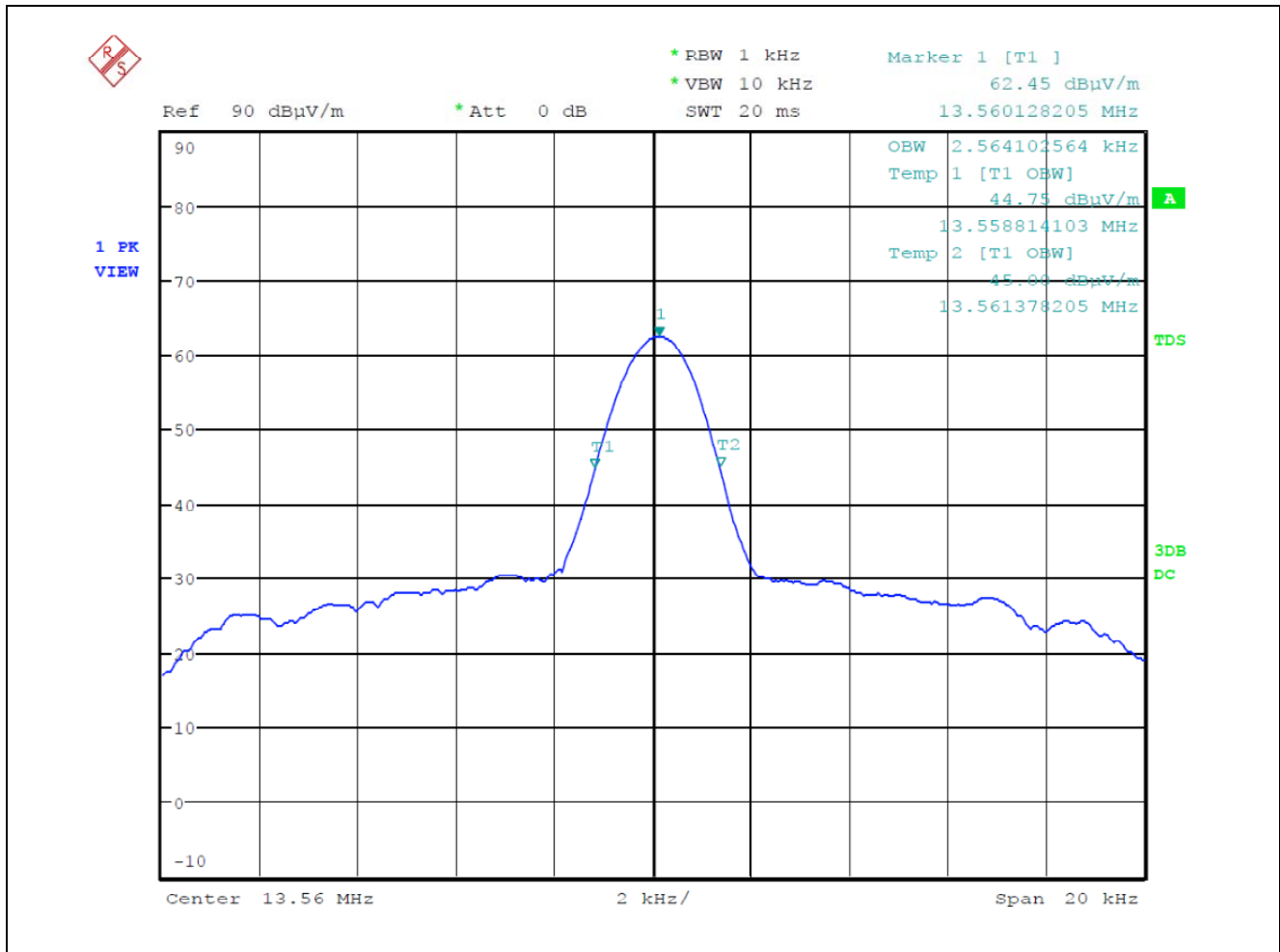
Channel Frequency	20 dB Bandwidth	99 %Occupied Bandwidth
13.56 MHz	2.756 kHz	2.564 kHz

See the following plot for details.

Plot 5.2.3.1. 20 dB Bandwidth, Fc: 13.56 MHz



Plot 5.2.3.2. 99% Occupied Bandwidth, Fc: 13.56 MHz



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File #: 26MIS165FCC15C225

May 6, 2026

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5.3. FIELD STRENGTH OF EMISSIONS WITHIN & OUTSIDE THE PERMITTED BAND 13.110-14.010 MHz [47 CFR 15.225 (a) to (d)]

5.3.1. Limits

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110 – 14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

47 CFR 15.209(a) – Radiated Emission Limits; general requirements

Frequency (MHz)	Field Strength Limits (microvolts/m)	Distance (Meters)
0.009 - 0.490	2,400 / F (KHz)	300
0.490 - 1.705	24,000 / 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

5.3.2. Method of Measurements

ANSI C63.10 and ANSI C63.4 for measurement methods.

5.3.3. Test Data

Remarks:

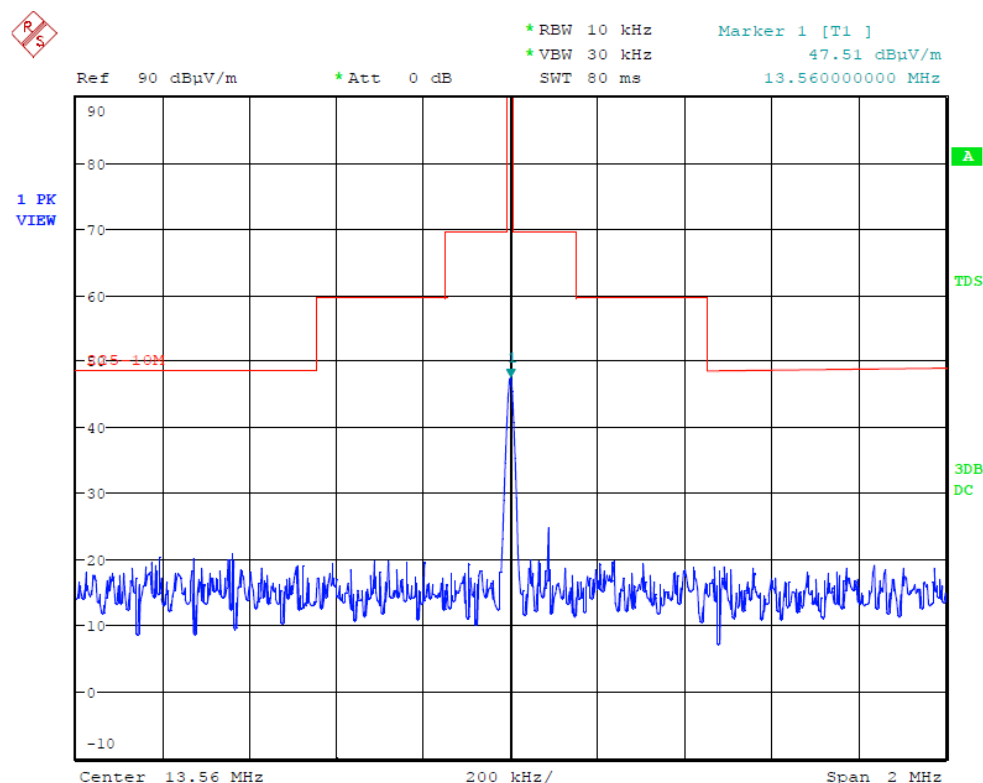
- Radiated spurious emissions measurements were performed at a measuring distance of 10 m or 3 m, from 10 kHz – 1 GHz and all spurious emissions that are in excess of 20 dB below the specified limit shall be recorded.
- For frequencies below 30 MHz, the results measured at 10 m distance shall be extrapolated as applicable to compare with limit and measurement distance specified in section 15.209(a), using an extrapolation factor of 40 dB/decade for determining compliance.

5.3.3.1. Field Strength of Emissions Within the Permitted Band at 10 m

Receiving Antenna Orientation: Vertical

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	90.000 dBuV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	2.000000 MHz	Ref Position	100.000 %
Start Frequency	12.560000 MHz	Level Range	100.000 dB
Stop Frequency	14.560000 MHz	RF Att	0.000 dB
RBW	10.000000 kHz		
VBW	30.000000 kHz	X-Axis	LIN
Sweep Time	80.00 ms	Y-Axis	LOG



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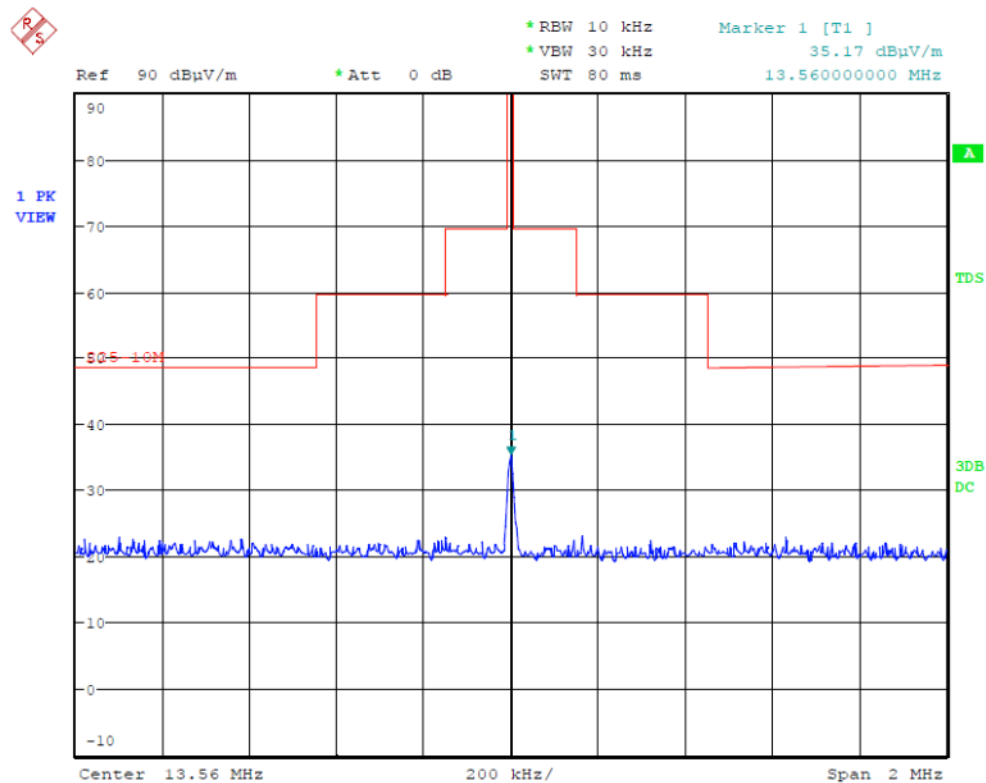
May 6, 2026

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Receiving Antenna Orientation: Horizontal

Sweep Settings Screen A

Center Frequency	13.560000 MHz	Ref Level	90.000 dBμV/m
Frequency Offset	0.000000 Hz	Ref Level Offset	0.000 dB
Span	2.000000 MHz	Ref Position	100.000 %
Start Frequency	12.560000 MHz	Level Range	100.000 dB
Stop Frequency	14.560000 MHz	RF Att	0.000 dB
RBW	10.000000 kHz	X-Axis	LIN
VBW	30.000000 kHz	Y-Axis	LOG
Sweep Time	80.00 ms		



Frequency (MHz)	Measured Field Strength @ 10 m (dBμV/m)	Detector Used (Peak/QP)	Antenna Plane (H/V)	Field Strength Extrapolated Value (dBμV/m)	§ 15.225 Field Strength Limits (dBμV/m)	Margin (dB)
13.56	47.51	Peak	V	28.43	84.0	-55.6
13.56	35.17	Peak	H	16.09	84.0	-67.9

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File #: 26MIS165FCC15C225

May 6, 2026

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5.3.3.2. Field Strength of Emissions Outside the Permitted Band Below 30 MHz at 10 m

Frequency (MHz)	Measured Field Strength @ 10 m (dBµV/m)	Detector Used (Peak/QP)	Antenna Plane (H/V)	Field Strength Extrapolated Value (dBµV/m)	§ 15.209 Field Strength Limits (dBµV/m)	Margin (dB)
All spurious emissions are more than 20 dB below the specified limit.						

5.3.3.3. Field Strength of Emissions Outside the Permitted Band at or Above 30 MHz at 3 m

Frequency (MHz)	Measured Field Strength @ 3 m (dBµV/m)	Detector Used (Peak/QP)	Antenna Plane (H/V)	§ 15.209 Field Strength Limits (dBµV/m)	Margin (dB)
40.68	23.50	Peak	V	40.0	-16.5
54.24	25.30	Peak	V	40.0	-14.7
67.80	23.80	Peak	V	40.0	-16.2
81.36	25.40	Peak	V	40.0	-14.6
81.36	20.50	Peak	H	40.0	-19.5
94.92	29.20	Peak	V	43.5	-14.3
108.48	34.80	Peak	V	43.5	-8.7
122.04	26.40	Peak	V	43.5	-17.1
135.60	34.60	Peak	V	43.5	-8.9
135.60	25.90	Peak	H	43.5	-17.6

5.4. FREQUENCY STABILITY [47 CFR 15.225(e)]

5.4.1. Limit(s)

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.4.2. Method of Measurements

ANSI C63.10.

5.4.3. Test Data

Frequency Band:	13.56 MHz
Center Frequency:	13.56 MHz
Frequency Tolerance Limit:	$\pm 0.01\%$ (± 1356 Hz)
Max. Frequency Tolerance Measured:	+224 Hz (16.52 ppm)
Input Voltage Rating:	9 VDC

Ambient Temperature (°C)	Frequency Drift (Hz)		
	Supply Voltage (Nominal) 9 VDC	Supply Voltage (85 % of Nominal) 7.65 VDC	Supply Voltage (115% of Nominal) 10.35 VDC
-20	+164	--	--
-10	+160	--	--
0	+97	--	--
+10	+98	--	--
+20	+91	+96	+128
+30	+106	--	--
+40	+163	--	--
+50	+224	--	--
+60	+224	--	--

ULTRATECH GROUP OF LABS

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Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

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EXHIBIT 6. TEST EQUIPMENT LIST

Test Instruments	Manufacturer	Model No.	Serial No.	Frequency Range	Cal. Due Date
Spectrum Analyzer	Hewlett Packard	8593EM	3710A00223	9 kHz–22 GHz	02 Sep 2026
High Pass filter	Rohde & Schwarz	EZ-25	100064	Cut off 150kHz	29 Oct 2026
LISN	NSLK 8127	NSLK 8127	8127276	9 kHz–30 MHz	22 Dec 2026
Spectrum Analyzer	Rohde & Schwarz	FSU26	100398	20Hz–26.5 GHz	26 Sep 2027
Loop Antenna	EMCO	6502	9104-2611	0.01 – 30 MHz	13 Jun 2026
Biconilog Antenna	EMCO	3142B	1575	26 to 2000 MHz	11 Dec 2026
Preamplifier	Com-Power	PAM-118A	551016	500MHz-18GHz	19 Jan 2027
Environmental Chamber	Envirotronics	SSH32C	11994847-S-11059	-60 to 177° C	25 Aug 2027
Power Supply	BK Precision	1740	1550497	0-60Vdc,4 A	See Note 1
Multimeter	Fluke	8842A	5021295	---	25 Jul 2027
Note 1: Internal Verification/Calibration check					

ULTRATECH GROUP OF LABS

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EXHIBIT 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4-2 @ IEC:2003 and JCGM 100:2008 (GUM 1995) – Guide to the Expression of Uncertainty in Measurement.

Test Description	Expanded Uncertainty, K=2 for 95% Confidence Level
Power Line Conducted Emissions	± 2.62 dB
Radiated Emissions	± 2.68 dB (10 kHz - 30 MHz)
	± 4.30 dB (30 MHz – 1 GHz)
Frequency Stability/Bandwidth	± 2 Hz

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