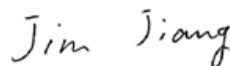


TEST REPORT

Report No.: **CTC2026340401**
FCC ID.....: **2ATTR-P10000A**
Applicant.....: **PopSockets LLC**
Address.....: 100 Technology Dr, Ste 250, Broomfield, CO 80021 United States
Manufacturer.....: PopSockets LLC
Address.....: 100 Technology Dr, Ste 250, Broomfield, CO 80021 United States
Product Name.....: **PowerPack**
Trade Mark.....: PopSockets
Model/Type reference.....: P10000A
Listed Model(s): /
Standard.....: **FCC CFR Title 47 Part 15 Subpart C**
Test Report Form No......: CTC-TR-171_A4
Master TRF.....: Dated 2026-06-01
Date of receipt of test sample...: Jul. 2, 2026
Date of testing.....: Jul. 2, 2026 ~ Jul. 15, 2026
Date of issue.....: Jul. 16, 2026
Result.....: **PASS**

Compiled by:

(Printed name+signature) Jim Jiang



Supervised by:

(Printed name+signature) Eric Zhang



Approved by:

(Printed name+signature) Totti Zhao



This test report may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CTC. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CTC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit. The test report merely correspond to the test sample.

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.209](#): Radiated emission limits; general requirements.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2026340401	Jul. 16, 2026	Original

1.3. Test Description

Test Item	Standard Section	Result	Note
Antenna Requirement	15.203	Pass	/
AC Power Line Conducted Emissions	15.207	Pass	/
Spurious Emission	15.209	Pass	/
20dB Bandwidth	15.215	Pass	/

Note:

1. The measurement uncertainty is not included in the test result.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

1.4. Test Facility

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Bandwidth	±0.0196%	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C~27°C
Relative Humidity:	40%~60%
Atmospheric Pressure:	101 kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	PopSockets LLC
Address:	100 Technology Dr, Ste 250, Broomfield, CO 80021 United States
Manufacturer:	PopSockets LLC
Address:	100 Technology Dr, Ste 250, Broomfield, CO 80021 United States

2.2. General Description of EUT

Product Name:	PowerPack
Trade Mark:	PopSockets
Model/Type reference:	P10000A
Listed Model(s):	/
Model Difference:	/
Power Supply:	Battery Capacity: 10000mAh, Rated Capacity: 37Wh Input Type-C: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 2A Output Type-C: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 2.22A, 12V $\overline{=}$ 1.67A Total Output: 5V $\overline{=}$ 3A(Max), Wireless Output: 15W(Max)
Sample ID:	CTC-GC260701-005-S029
Hardware Version:	V1.0
Software Version:	V1.0
Wireless Power Transfer Devices	
Frequency Range:	112kHz ~ 147.5kHz
Modulation Type:	ASK
Antenna Type:	Induction Coil
Exposure category:	General population/uncontrolled environment
Device Type:	Portable Device

2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Power Adapter	A2144	/	Apple
Wireless Charging Test Module	/	/	YBZ
Cable Information			
Name	Shielded Type	Ferrite Core	Length
Charging Cable	Unshielded	No	100cm

2.4. Operation State

The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (kHz)
1	128.5

Note: The display in grey is the channel selected for testing.

Test Mode:

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit. (duty cycle>98%).
For AC power line conducted emissions:
EUT is in test mode 1.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report. Pretest each test mode, with test mode 2 being the worst case.

Test Mode	Description
Mode 1	Adapter charging
Mode 2	Wireless charging (EUT Output 15W)
Mode 3	Wireless charging (EUT Output 10W)
Mode 4	Wireless charging (EUT Output 7.5W)
Mode 5	Wireless charging (EUT Output 5W)
Mode 6	Standby

2.5. Measurement Instruments List

RF Test System - SRD					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 12, 2026
2	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Dec. 12, 2026
3	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2026
4	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2026
5	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2026
6	RF Control Unit	Tonscend	JS0806-2	/	Dec. 12, 2026
7	Test Software	Tonscend	JS1120-3	V3.3.38	/

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Oct. 16, 2027
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 11, 2026
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2026
4	Broadband Amplifier	Schwarzbeck	BBV9743B	259	Dec. 12, 2026
5	Mirowave Broadband Amplifier	Schwarzbeck	BBV9718C	111	Dec. 12, 2026
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/
8	Loop Antenna	ETS	6507	1446	Dec. 12, 2026

Conducted emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 12, 2026
2	LISN	R&S	ENV216	101113	Dec. 12, 2026
3	EMI Test Receiver	R&S	ESCI	100524	Dec. 12, 2026
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2026
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2026
6	Test Software	R&S	EMC32	6.10.10	/

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

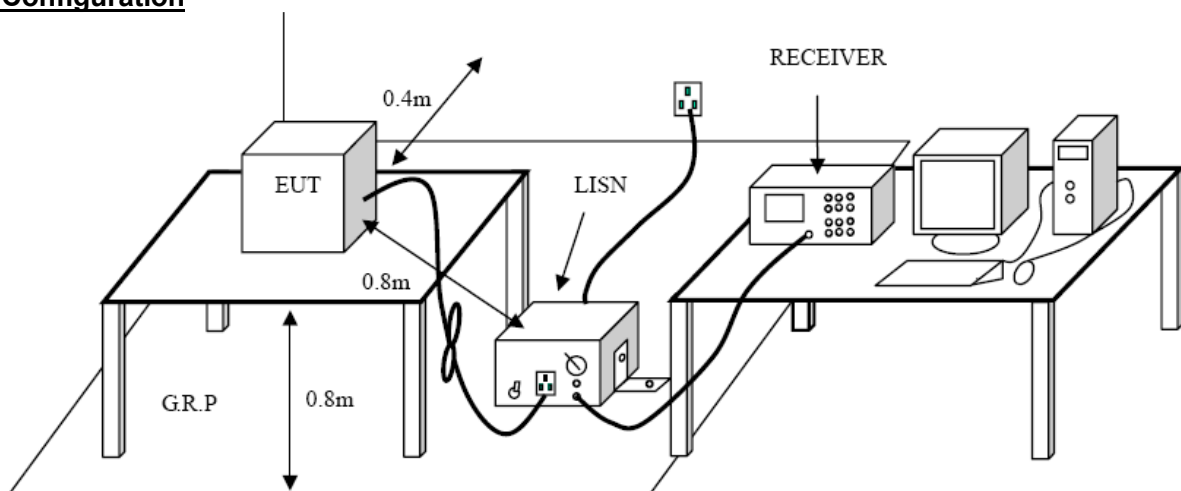
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

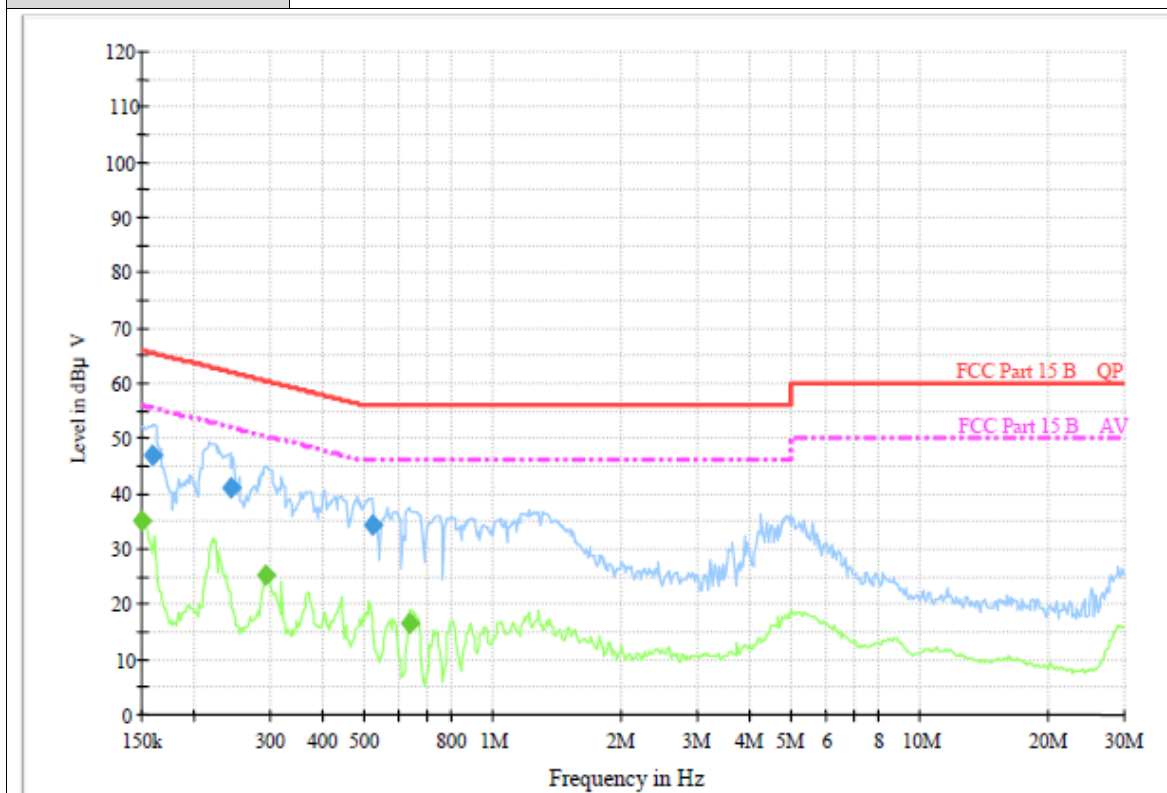
1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

Test Results

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Test Mode:	Mode 1

**Final Measurement Detector 1**

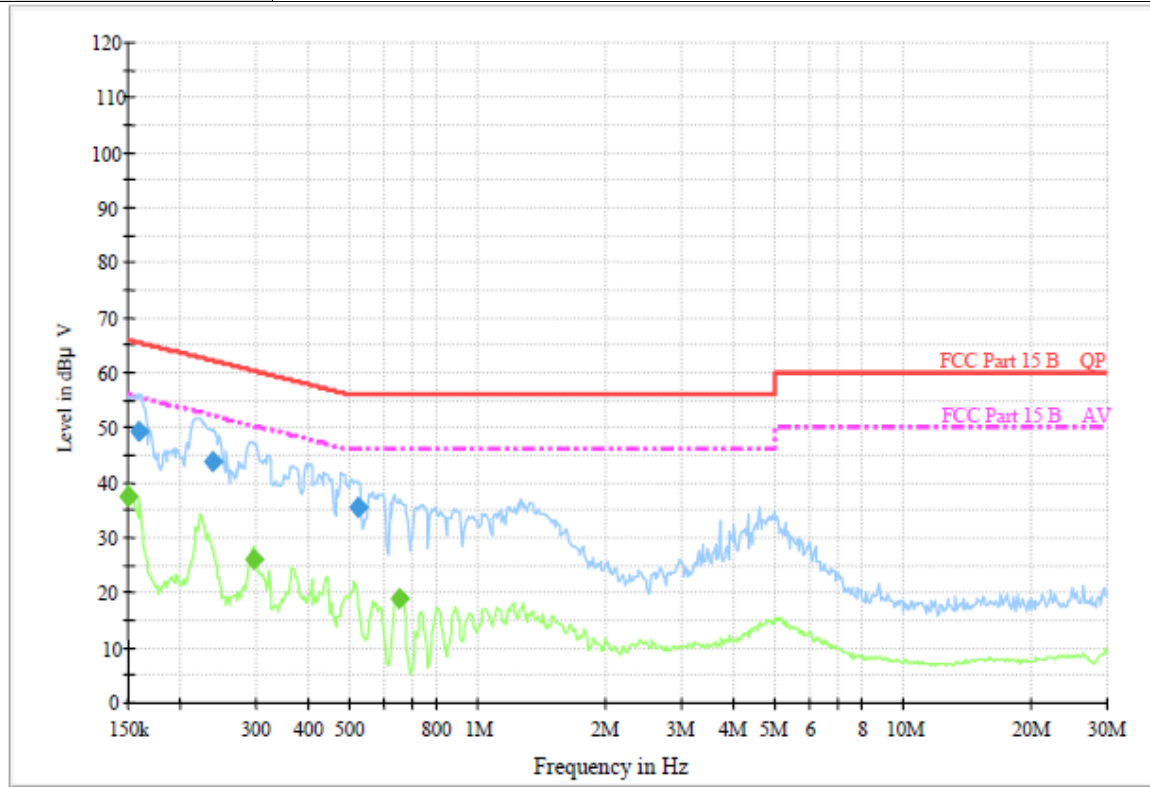
Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.159870	47.2	1000.00	9.000	On	L1	9.3	18.3	65.5	
0.241950	41.1	1000.00	9.000	On	L1	9.3	20.9	62.0	
0.519920	34.5	1000.00	9.000	On	L1	9.4	21.5	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.150000	35.0	1000.00	9.000	On	L1	9.3	21.0	56.0	
0.292940	25.1	1000.00	9.000	On	L1	9.4	25.3	50.4	
0.634520	16.4	1000.00	9.000	On	L1	9.6	29.6	46.0	

Emission Level = Read Level + Correct Factor

Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Test Mode:	Mode 1



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.159870	49.5	1000.00	9.000	On	N	9.4	16.0	65.5	
0.238120	44.0	1000.00	9.000	On	N	9.3	18.2	62.2	
0.519920	35.3	1000.00	9.000	On	N	9.5	20.7	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.150000	37.5	1000.00	9.000	On	N	9.4	18.5	56.0	
0.295280	26.1	1000.00	9.000	On	N	9.4	24.3	50.4	
0.655070	19.0	1000.00	9.000	On	N	9.2	27.0	46.0	

Emission Level = Read Level + Correct Factor

3.2. Radiated Spurious Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209&15.249(a)

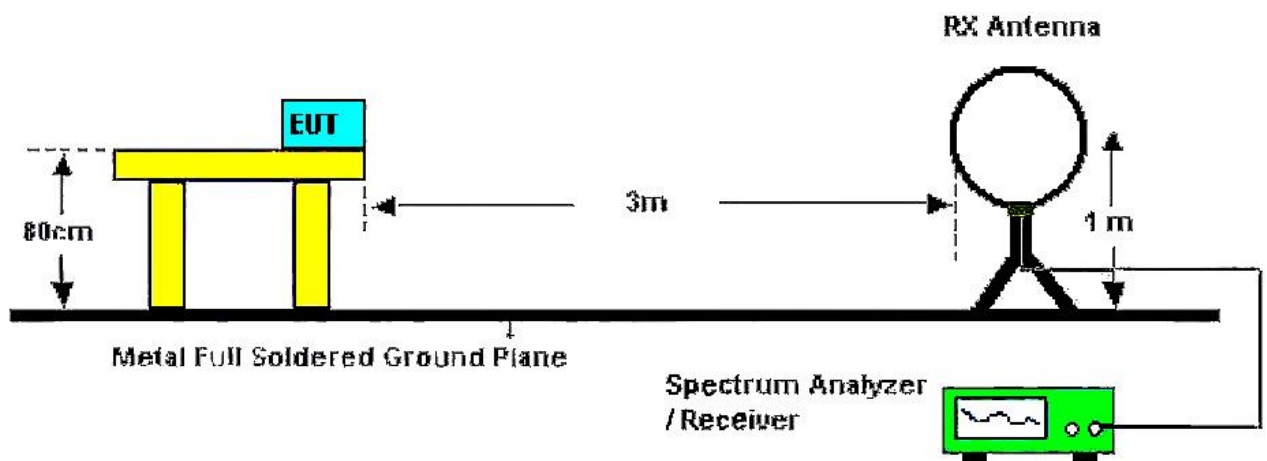
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dBμV/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

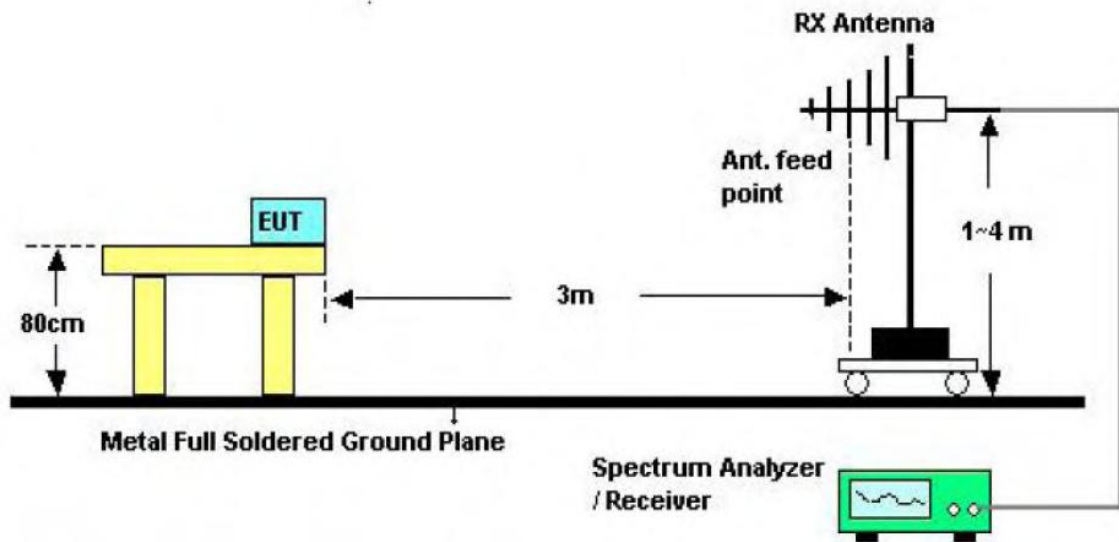
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

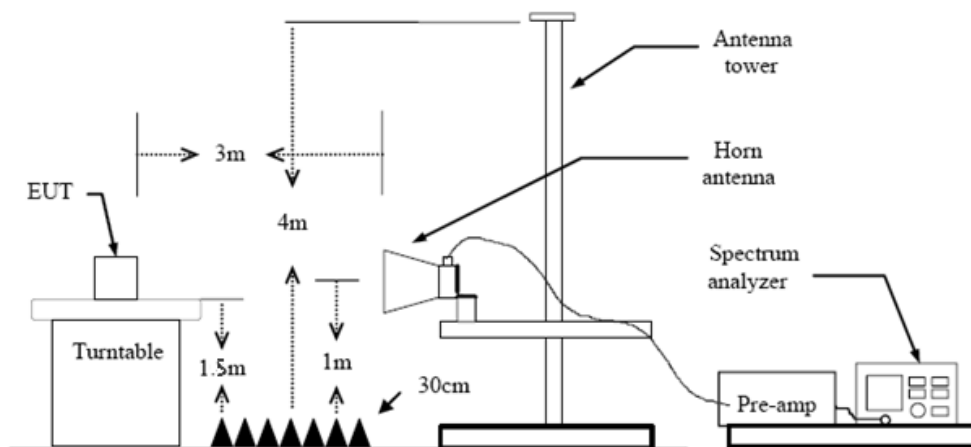
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

CTC Laboratories, Inc.

(5) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

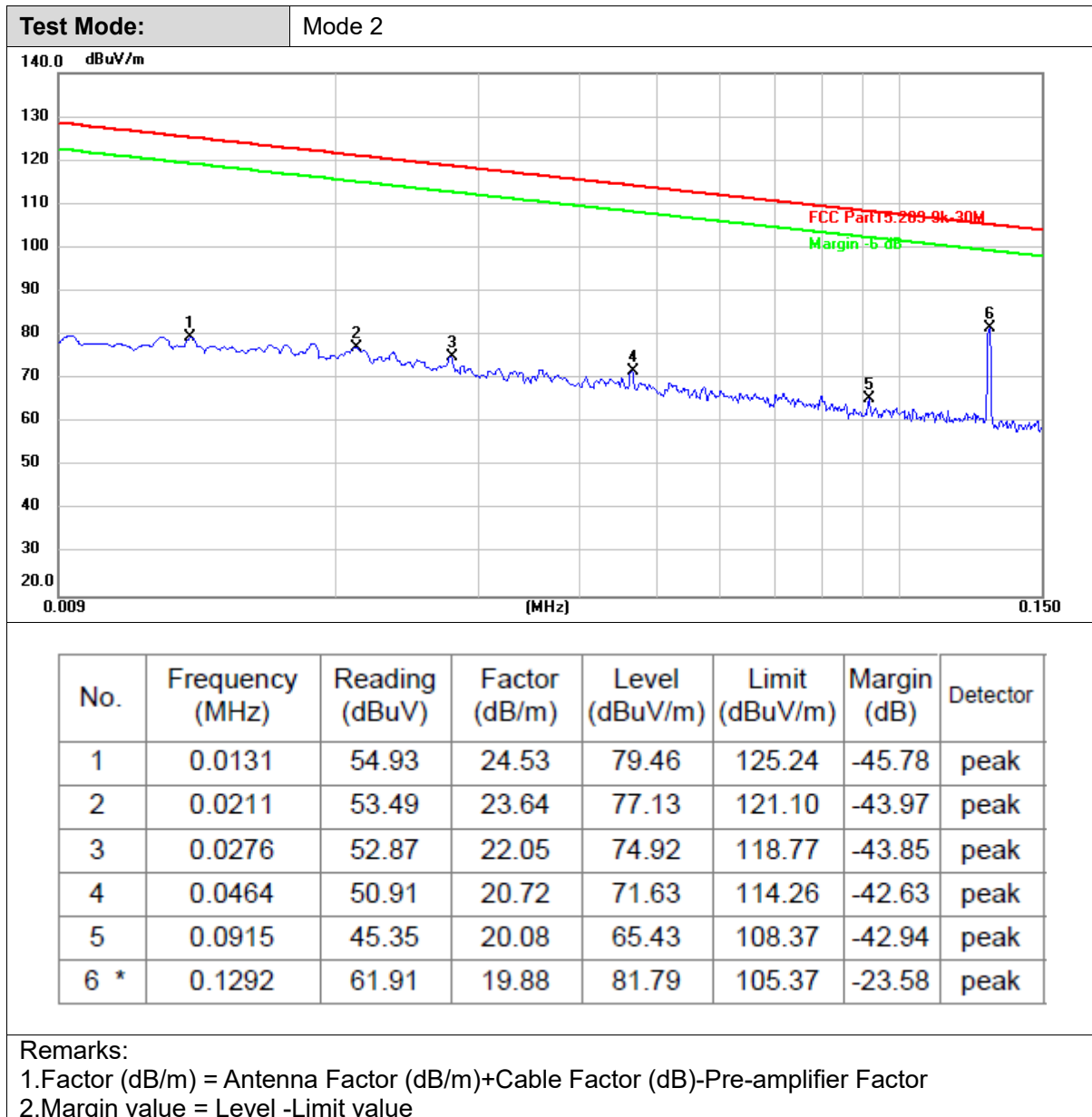
RBW=1MHz, VBW=10Hz with Peak Detector for Average Value.

Test Mode

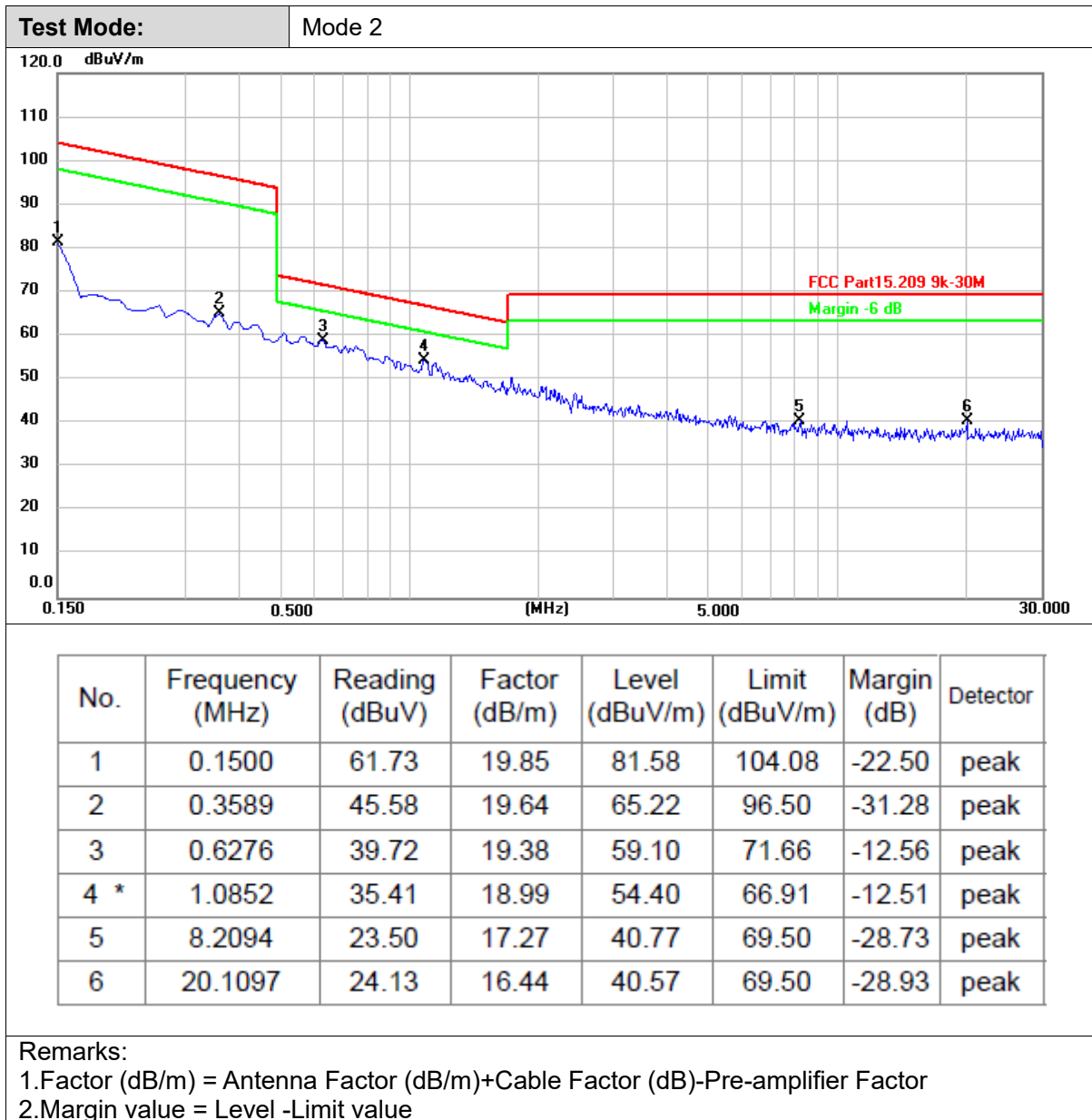
Please refer to the clause 2.4.

Test Result

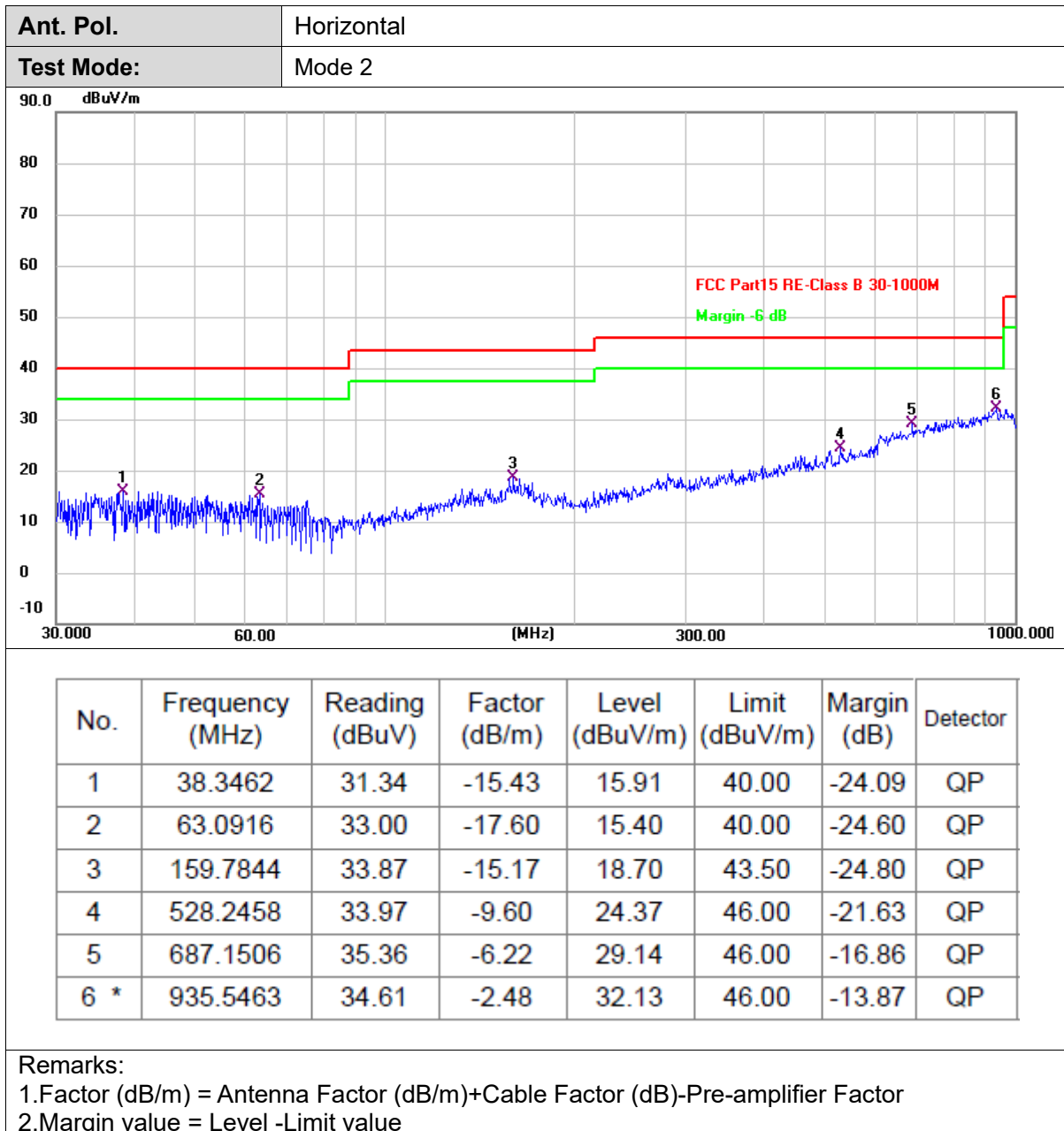
9 kHz~150 kHz

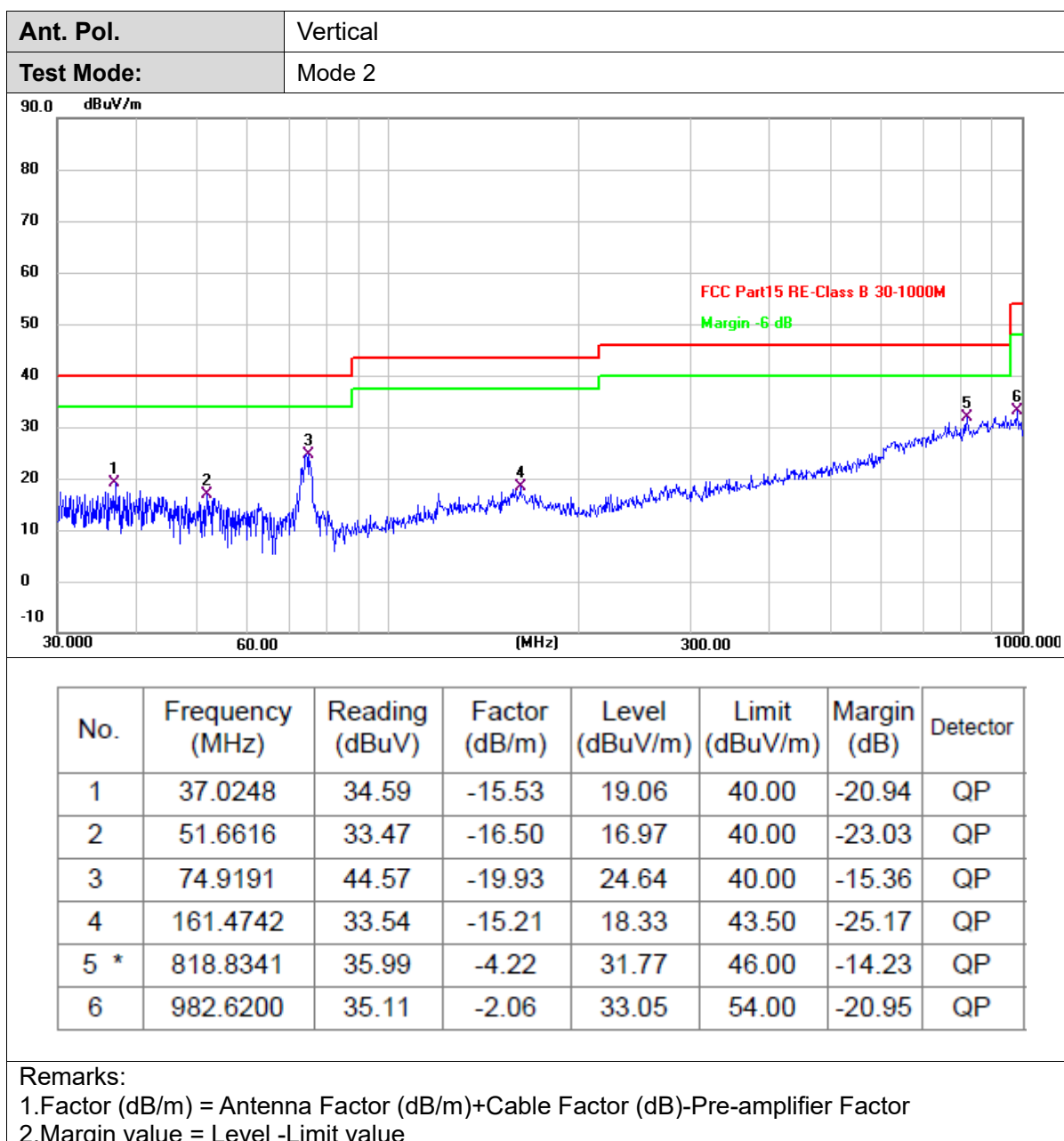


150 kHz~30 MHz



30 MHz~1000 MHz



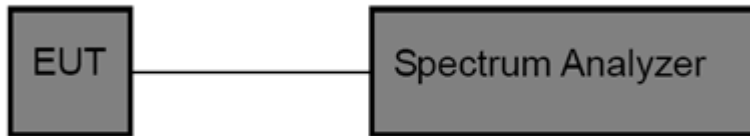


3.3. 20dB Bandwidth

Limit

/

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a test channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

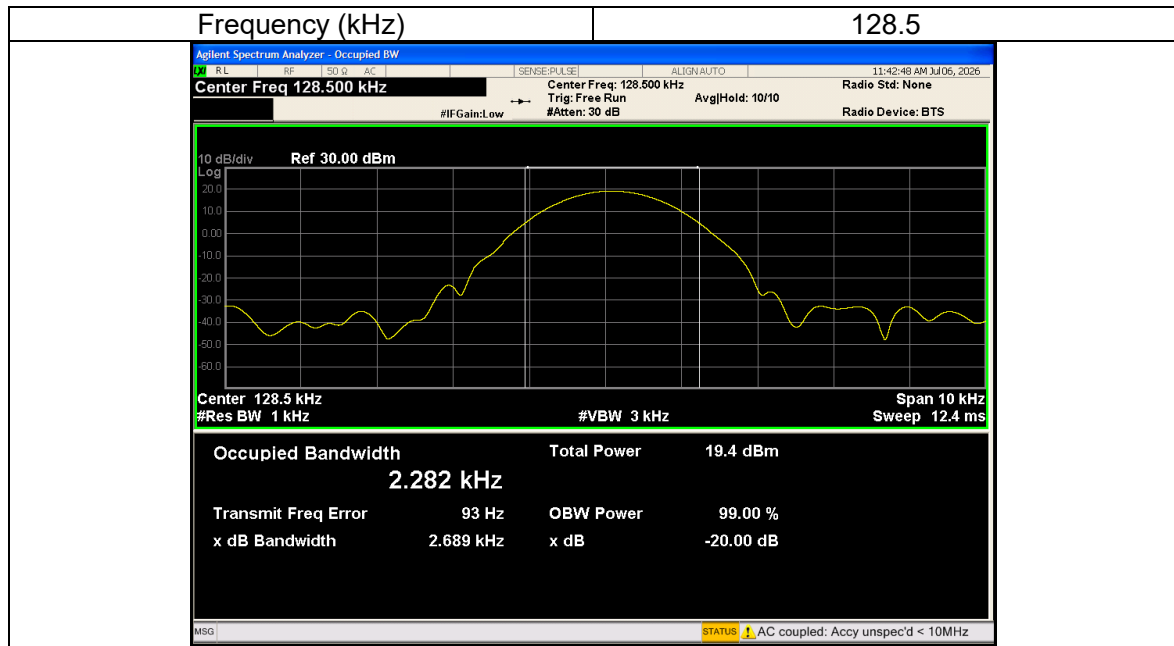
Test Mode

Please refer to the clause 2.4

Test Results

Frequency (kHz)	20dB Bandwidth (kHz)	Occupied Bandwidth (kHz)	Result
128.5	2.689	/	Pass

Test Graphs:



3.4. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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 antenna that uses a unique coupling to the intentional radiator, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

Compliance

*****THE END*****