

TEST REPORT

Reference No...... : WTD26D04089225W002
FCC ID : 2BNYR-PPM2AW
Applicant..... : SNAPWIRELESS PTY LTD
Address..... : OFFICE 9, 108-120 MARION ROAD, BROOKLYN PARK SA, Australia 5032
Manufacturer : SNAPWIRELESS PTY LTD
Address..... : OFFICE 9, 108-120 MARION ROAD, BROOKLYN PARK SA, Australia 5032
Product..... : PowerPack Mini 2 - Apple Watch
Model(s) : PPM2AW
Brand Name..... : **SNAP**
Standards..... : FCC CFR47 Part 15C
Date of Receipt Sample : 2026-04-08
Date of Test : 2026-04-20 to 2026-07-14
Date of Issue..... : 2026-07-28
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Tel: +86-769-2267 6998

Fax: +86-769-2267 6828

Compiled by:

Frank Yin

Frank Yin / Project Engineer

Approved by:

Deval Qin

Deval Qin / Designated Reviewer



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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD26D04089225W002	2026-04-08	2026-04-20 to 2026-07-14	2026-07-28	Original	-	Valid

4 General Information

4.1 General Description of E.U.T

Product:	PowerPack Mini 2 - Apple Watch
Model(s):	PPM2AW
Model Description:	N/A
Test Sample No.:	1-1/1
Type of Modulation:	Load modulation
Frequency Range:	102kHz – 380kHz
Antenna installation:	Inductive loop coil Antenna
Hardware Version:	SW6236D-027
Software Version:	W136F(0xD26D72EE)

4.2 Details of accessories

Ratings:	USB-C Port Input: 5VDC/3A, 9VDC/2A USB-C Port Output: 5VDC/3A, 9VDC/2.22A, 12VDC/1.67A, 10VDC/2.25A USB-C Cable Input: 5VDC/3A, 9VDC/2A USB-C Cable Output: 5VDC/3A, 9VDC/2.22A, 12VDC/1.67A, 10VDC/2.25A Watch Wireless Output: 2.5W
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4.3 Test Mode

Test Mode	Descriptions
Wireless charging mode	/

Note:

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. 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 number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
Conducted Emission	47CFR part 15§15.207	PASS
Radiated Emission	47CFR part 15§15.209	PASS
20dB Bandwidth	47CFR part 15§15.215	PASS
Antenna Requirement	47CFR part 15§15.203	PASS
RF Exposure	FCC CFR 47 part1§1.1310 KDB 680106 D01 v03	PASS
Note: Pass=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable		

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	101155	2025-07-04 2026-07-01	2026-07-03 2027-06-30
2	LISN	SCHWARZBECK	NSLK 8128	8128-259	2025-06-03 2026-06-02	2026-06-02 2027-06-01
3	Limiter	CYBERTEK	EM5010	261115-001-0024	2025-07-04 2026-07-01	2026-07-03 2027-06-30
4	Cable	Laplace	RF300	-	2025-07-04 2026-07-01	2026-07-03 2027-06-30
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2026-04-07	2027-04-06
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05 2026-07-04	2026-07-04 2027-07-03
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2026-04-19	2027-04-18
4	Amplifier	ANRITSU	MH648A	M43381	2026-04-07	2027-04-06
5	Cable	HUBER+SUHNER	CBL2	525178	2026-04-07	2027-04-06
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Signal Analyzer (9k~26.5GHz)	Keysight	N9010A	MY50520207	2026-04-07	2027-04-06
2	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04 2026-07-01	2026-07-03 2027-06-30

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
Intelligent wireless charging full function test module	YBZ	V3.1	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB (AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor: k=2	

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P. R. China.

7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207
Test Method: ANSI C63.10-2020
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Class/Severity: Class B
Limit:

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

*Decreases with the logarithm of the frequency.

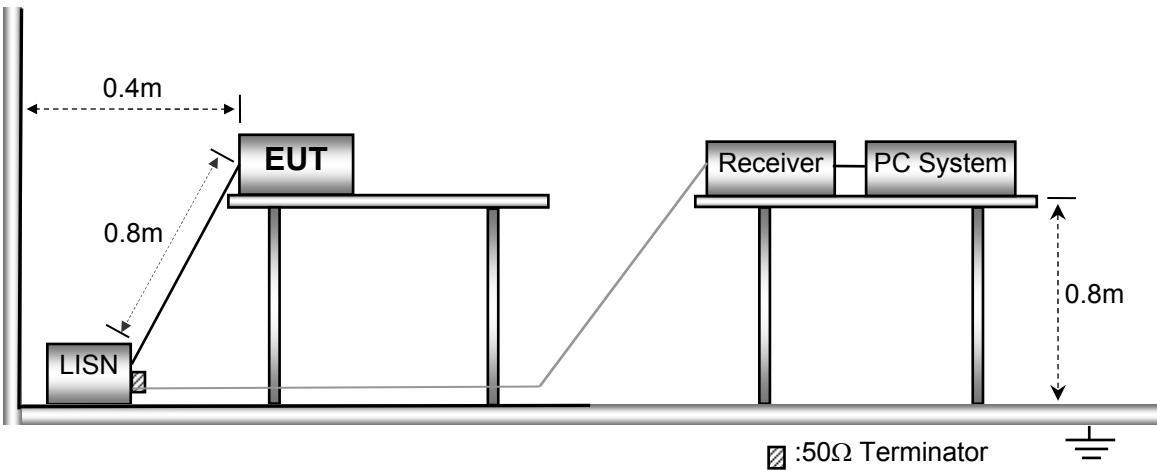
7.1 EUT Operation

Operating Environment:
Temperature: 24.1°C
Humidity: 55.6%RH
Atmospheric Pressure: 101.2kPa
EUT Operation: Wireless charging-15W

Only the worst-case transmitting mode were record in the report.

7.2 EUT Setup

The EUT was placed on the test table in shielding room.

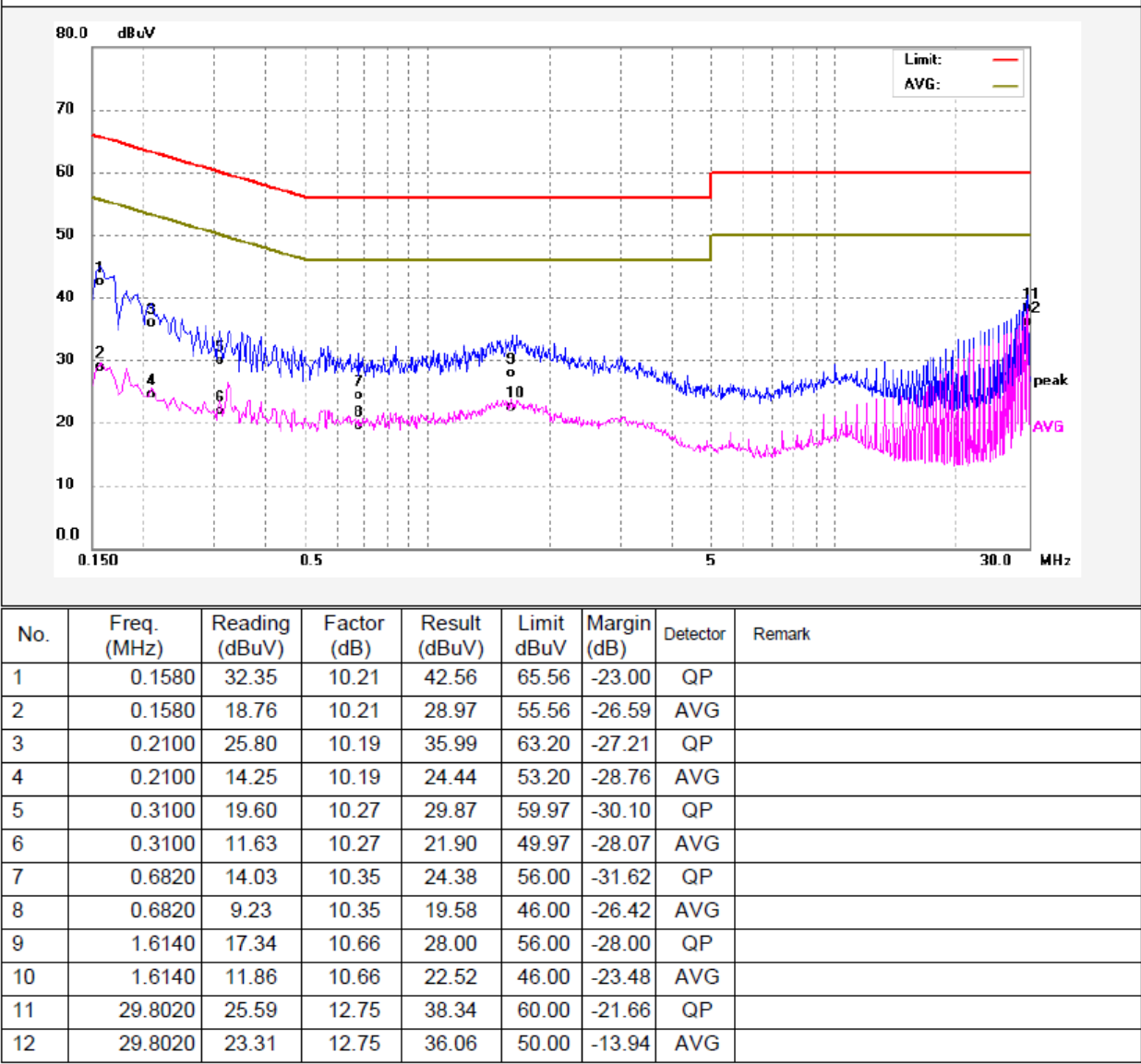


7.3 Measurement Description

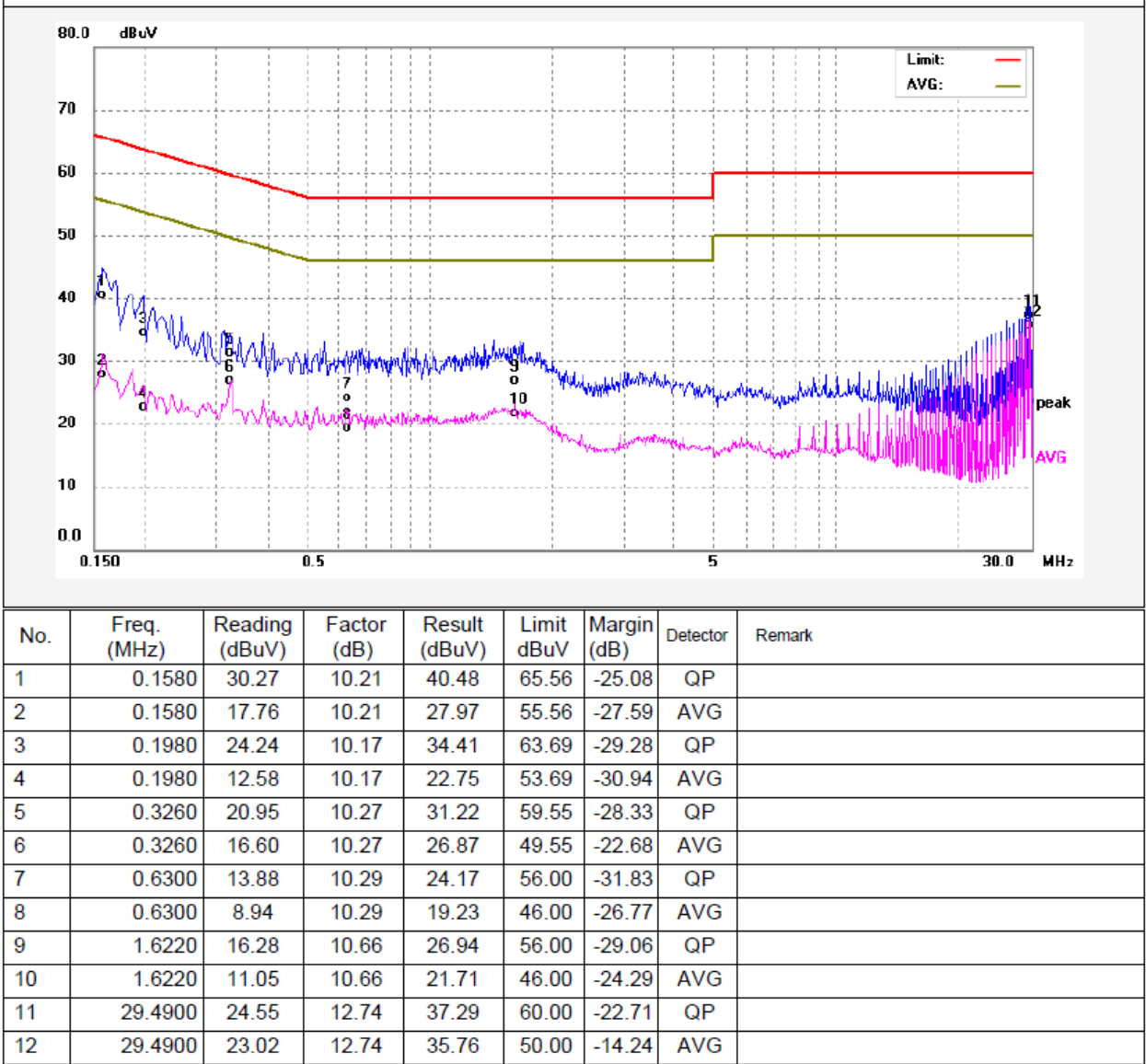
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

Live line:



Neutral line:



8 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209

Test Method: ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

FCC Part15 Paragraph 15.209

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	$\mu\text{V/m}$	Distance (m)	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100**	3	100	$20\log^{(100)}$
88 ~ 216	150**	3	150	$20\log^{(150)}$
216 ~ 960	200**	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

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

In the emission table above, the tighter limit applies at the band edges.

Note:

According to §15.209(d), 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, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to §15.31(f)(2):

$3\text{m Measurement level (dB}\mu\text{V/m)} = 300\text{m Measurement level (dB}\mu\text{V/m)} + 40\log(300/3) \text{ (dB}\mu\text{V/m)}.$

8.1 EUT Operation

Operating Environment:

Temperature: 25.2 °C

Humidity: 51.5 % RH

Atmospheric Pressure: 101.2kPa

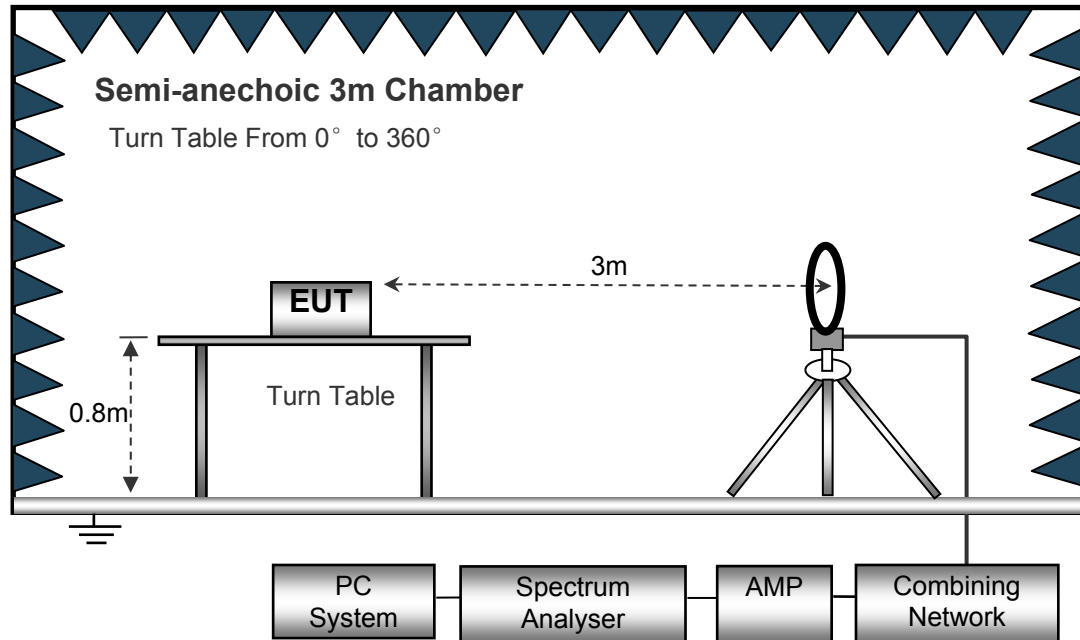
EUT Operation:

Only the worst-case transmitting mode were record in the report.

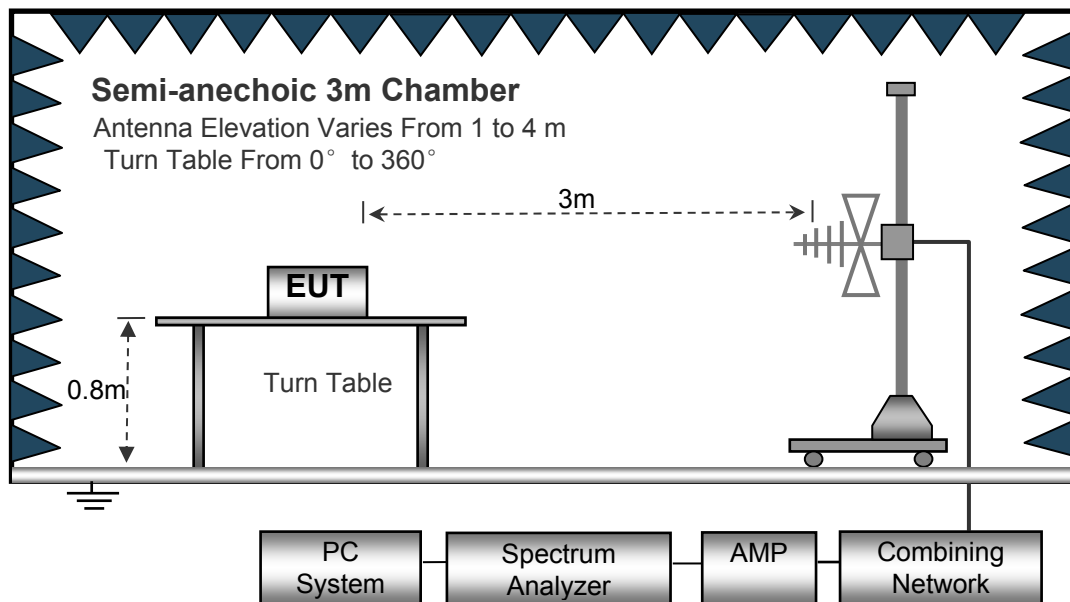
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement above 30MHz and up to 1 000MHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

Above 30MHz

Sweep Speed Auto
 Video Bandwidth..... 300kHz
 Resolution Bandwidth..... 100kHz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane, EUT is set 3m away from the receiving antenna, which is 1.0m above ground plane (Height of the centre of the loop above the GRP of the SAC is 1 m).
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And each emission was to be maximized by changing the polarization of receiving antenna both vertical coaxial and vertical coplanar.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes (X, Y, Z) position (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand). After pre-test, it was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

Note:

Although these test were performed other than open area test site, adequate comparison measurements were confirmed against 300m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

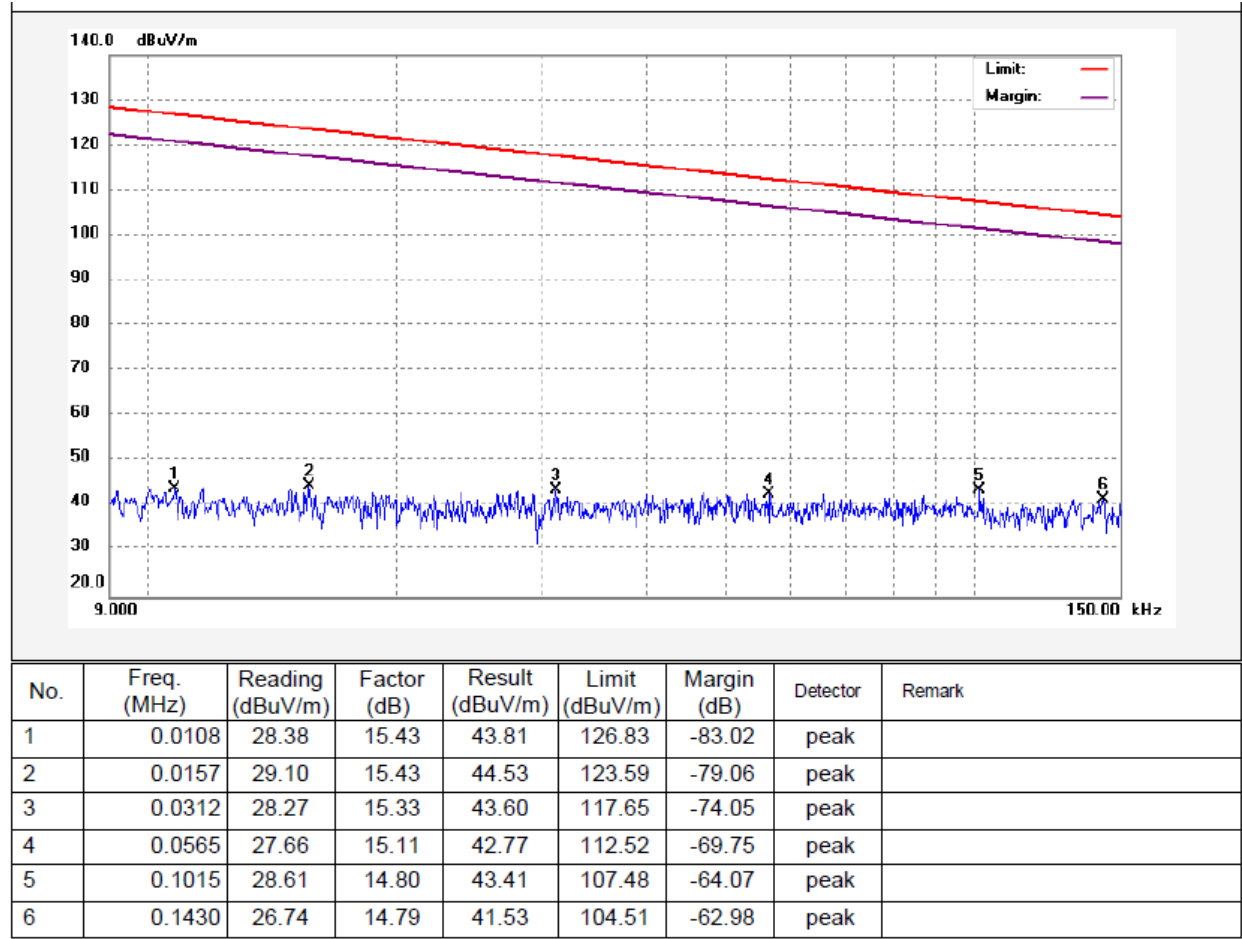
$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

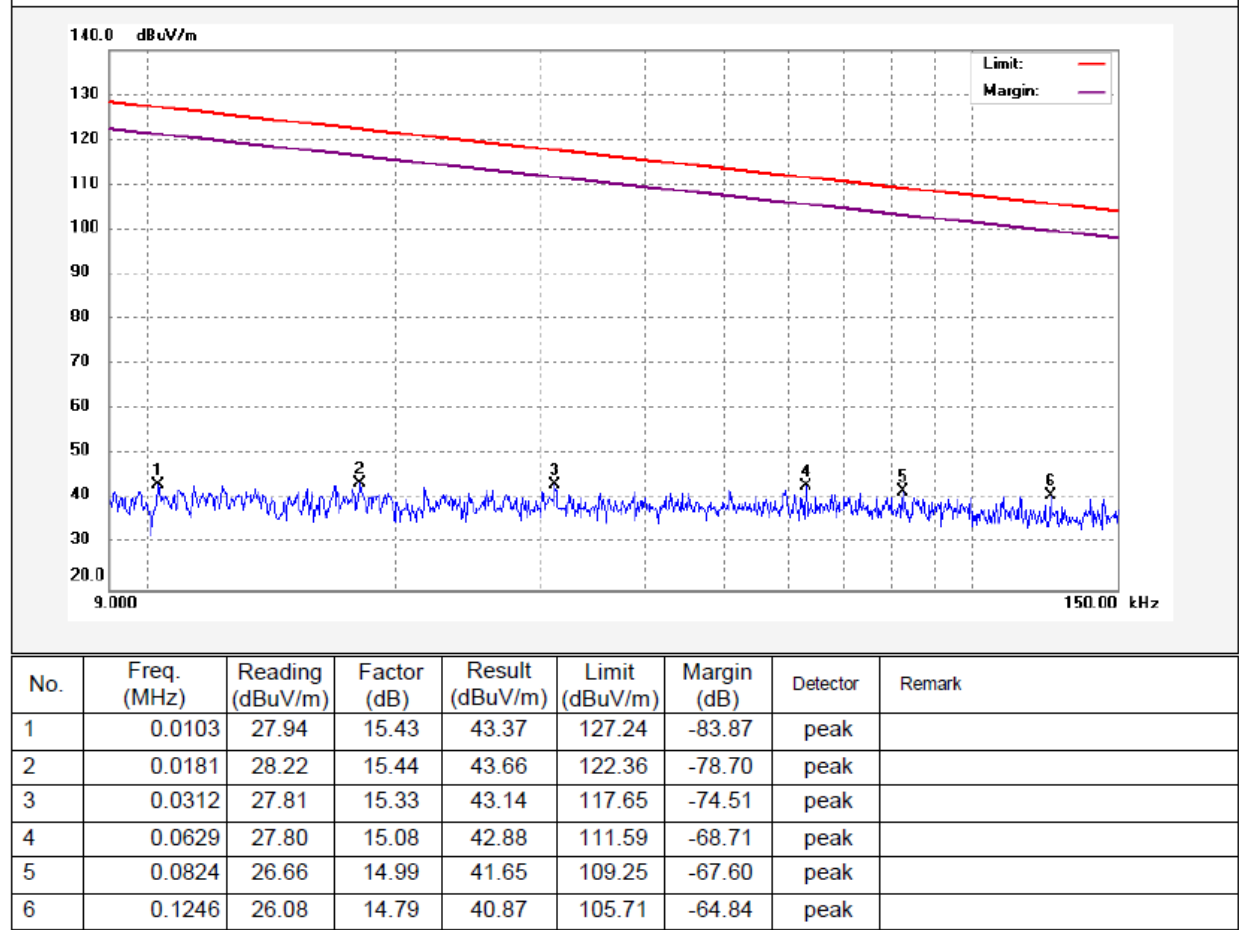
All test mode were tested, and only the worst-case (wireless charging mode: Wireless Charging Output 15W) are shown in the report.

Test Frequency: 9kHz ~ 150kHz

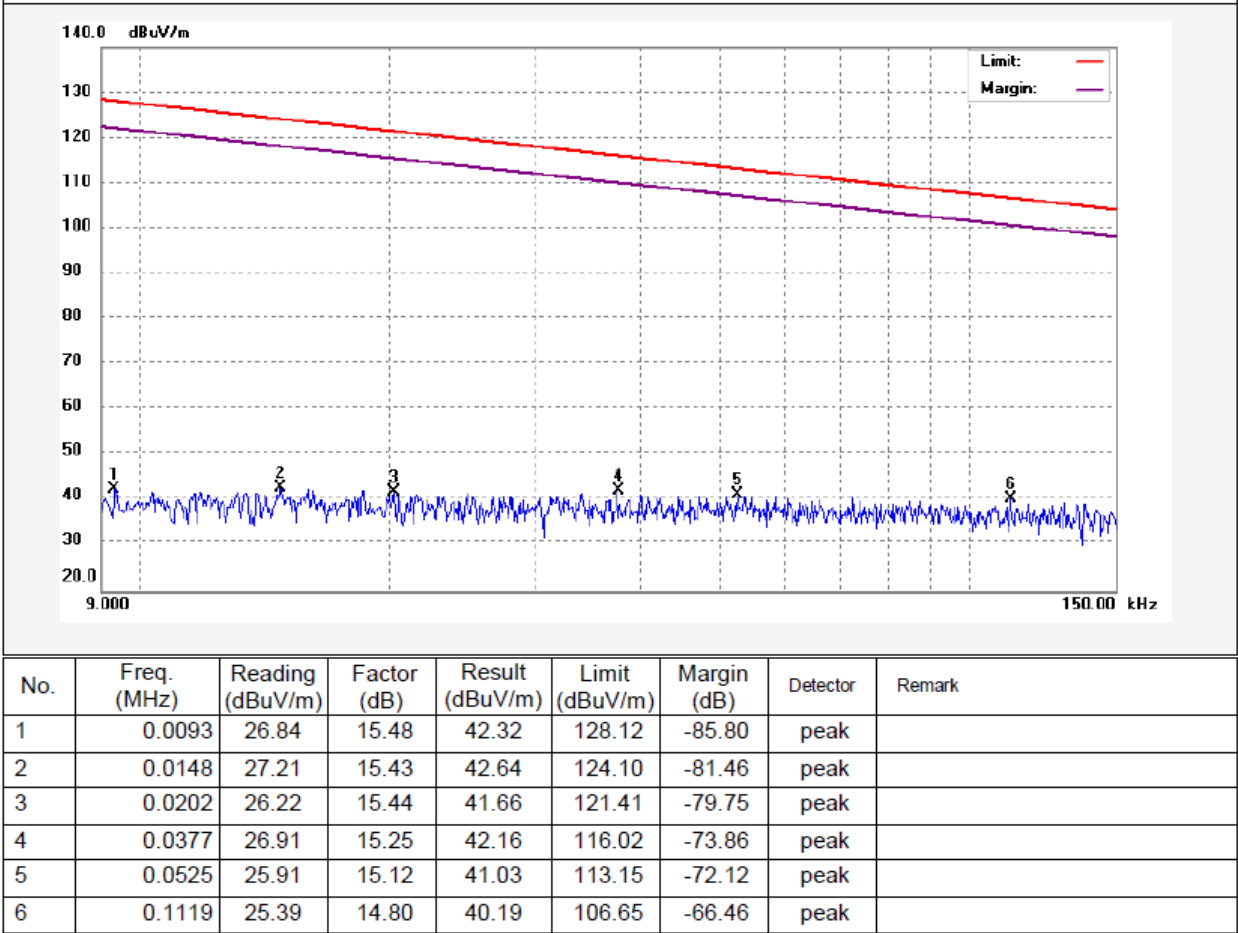
Antenna Orientation: Parallel



Antenna Orientation: Perpendicular

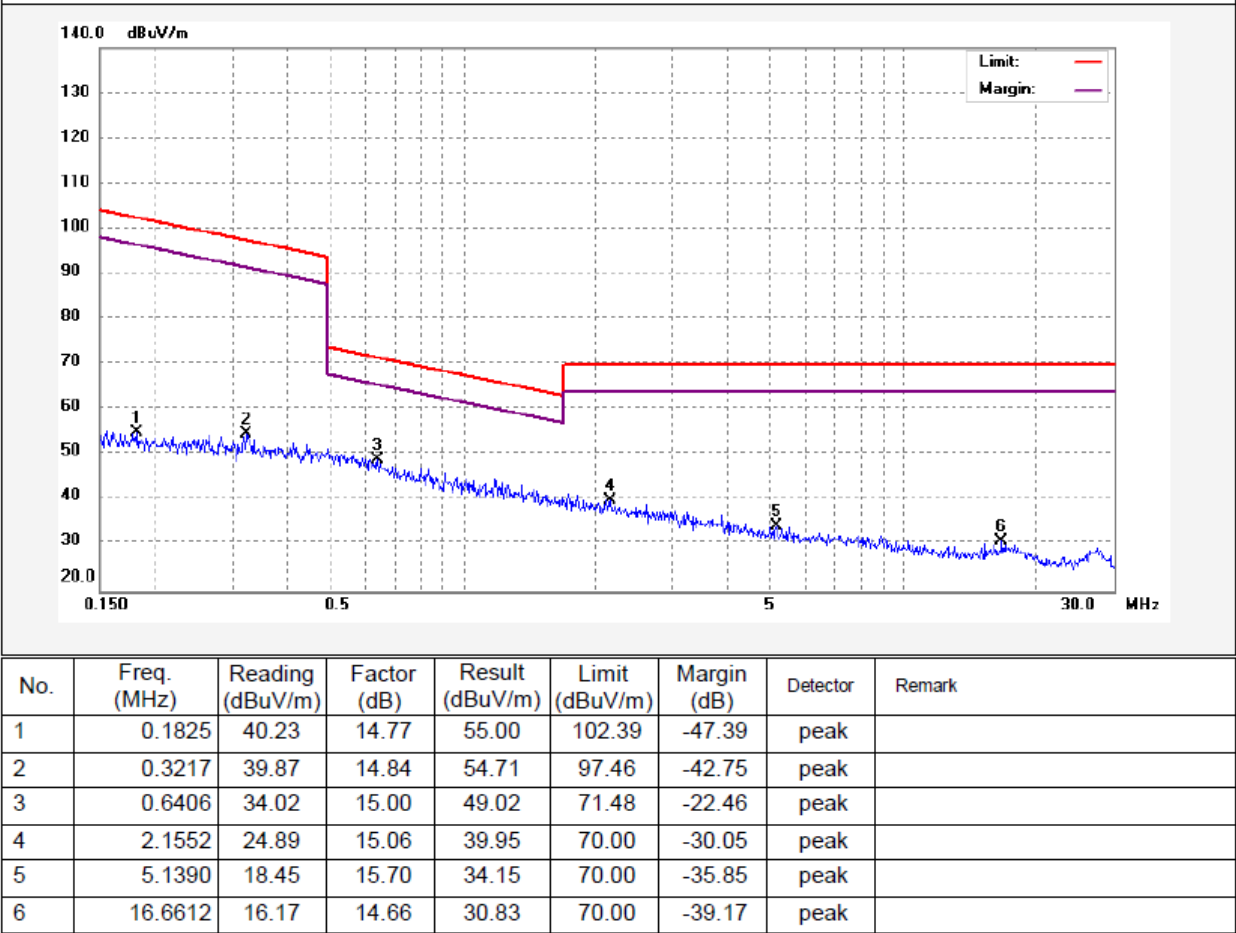


Antenna Orientation: Ground parallel

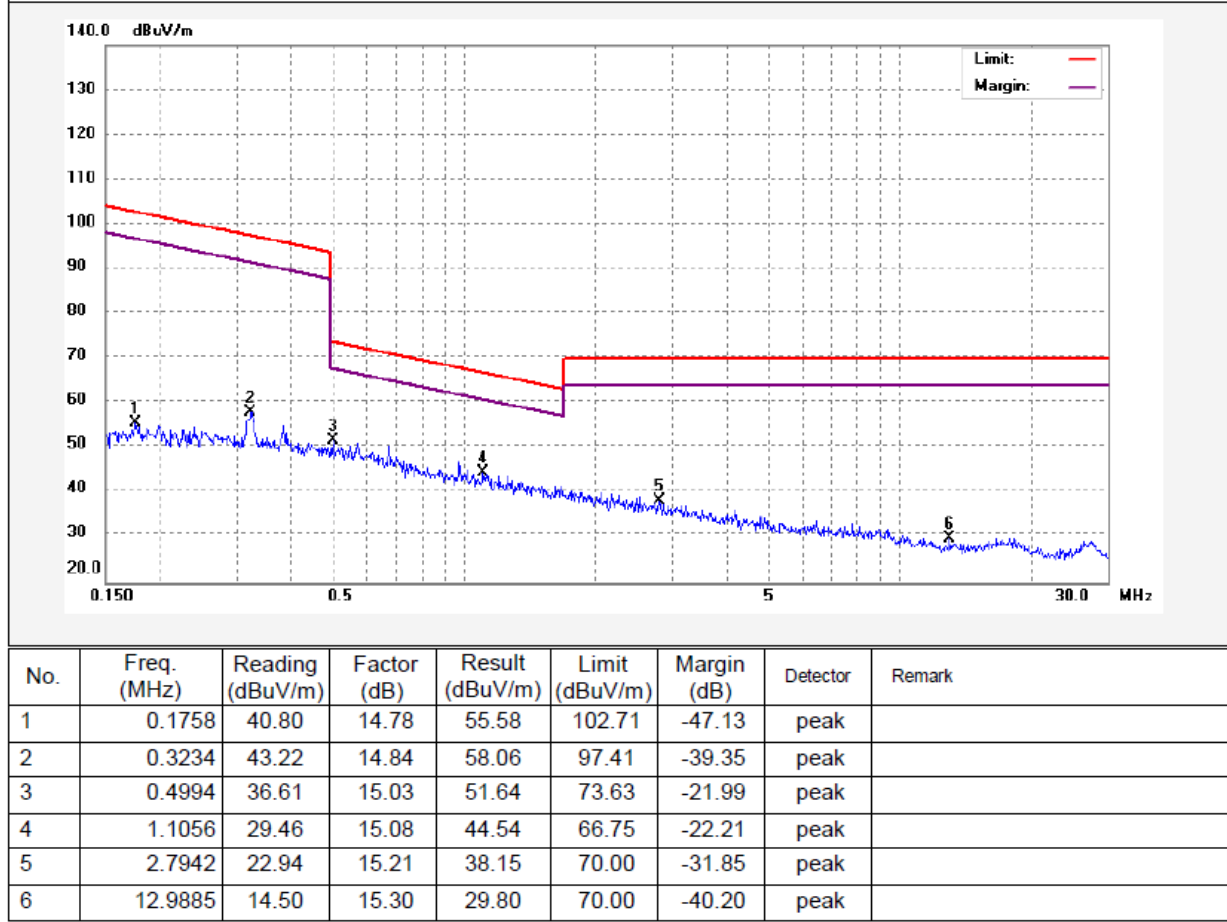


Test Frequency: 150kHz ~ 30MHz

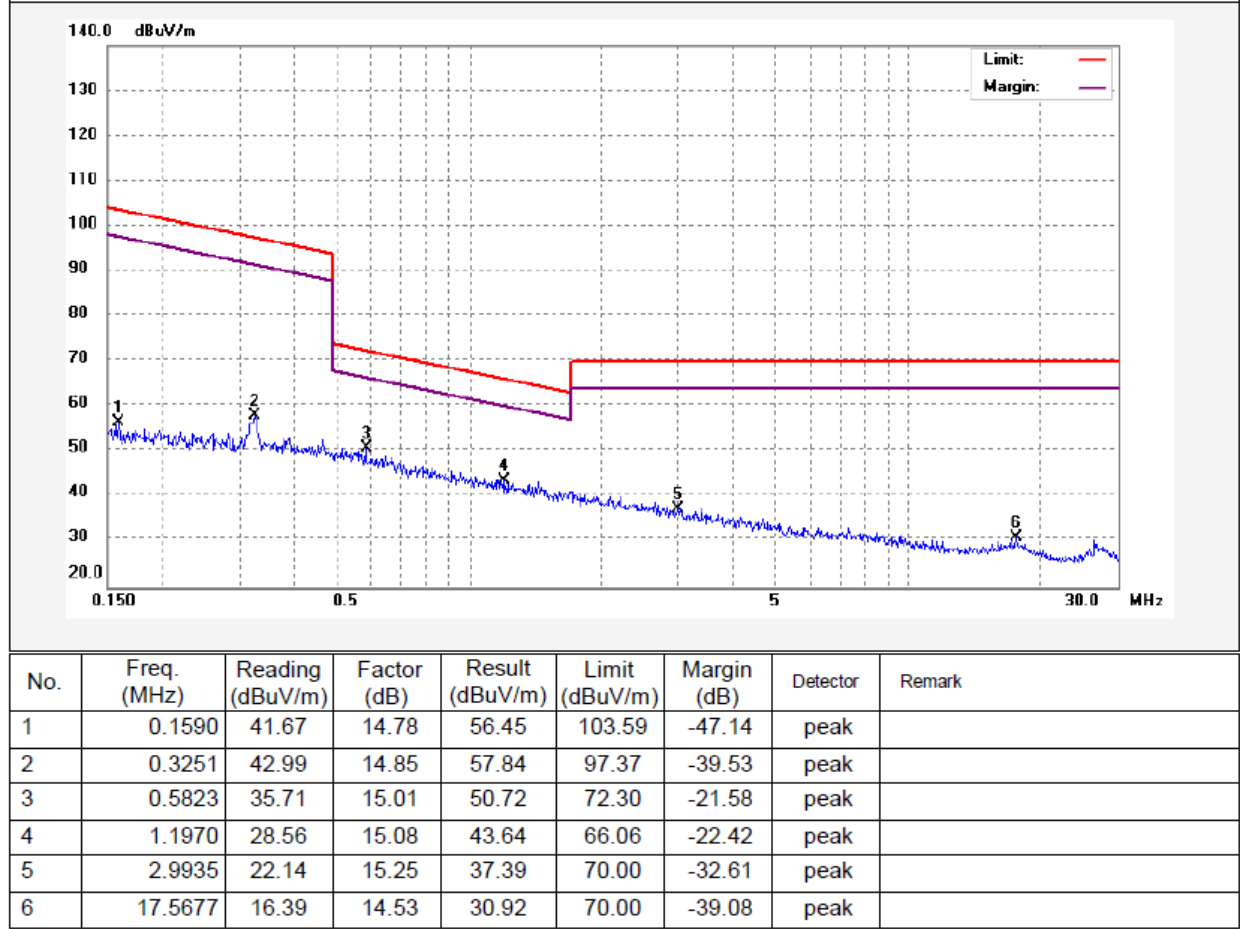
Antenna Orientation: Parallel



Antenna Orientation: Perpendicular

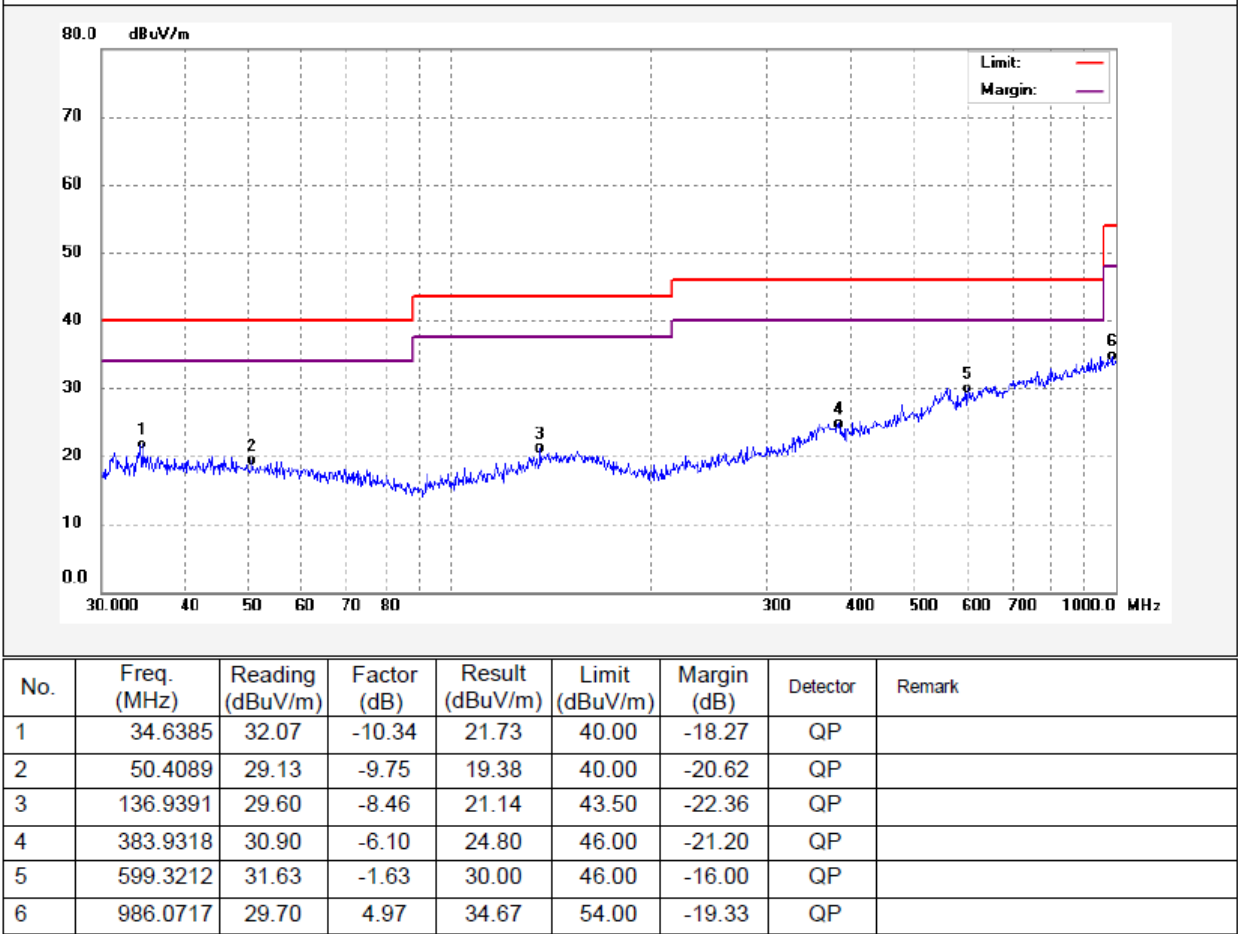


Antenna Orientation: Ground parallel

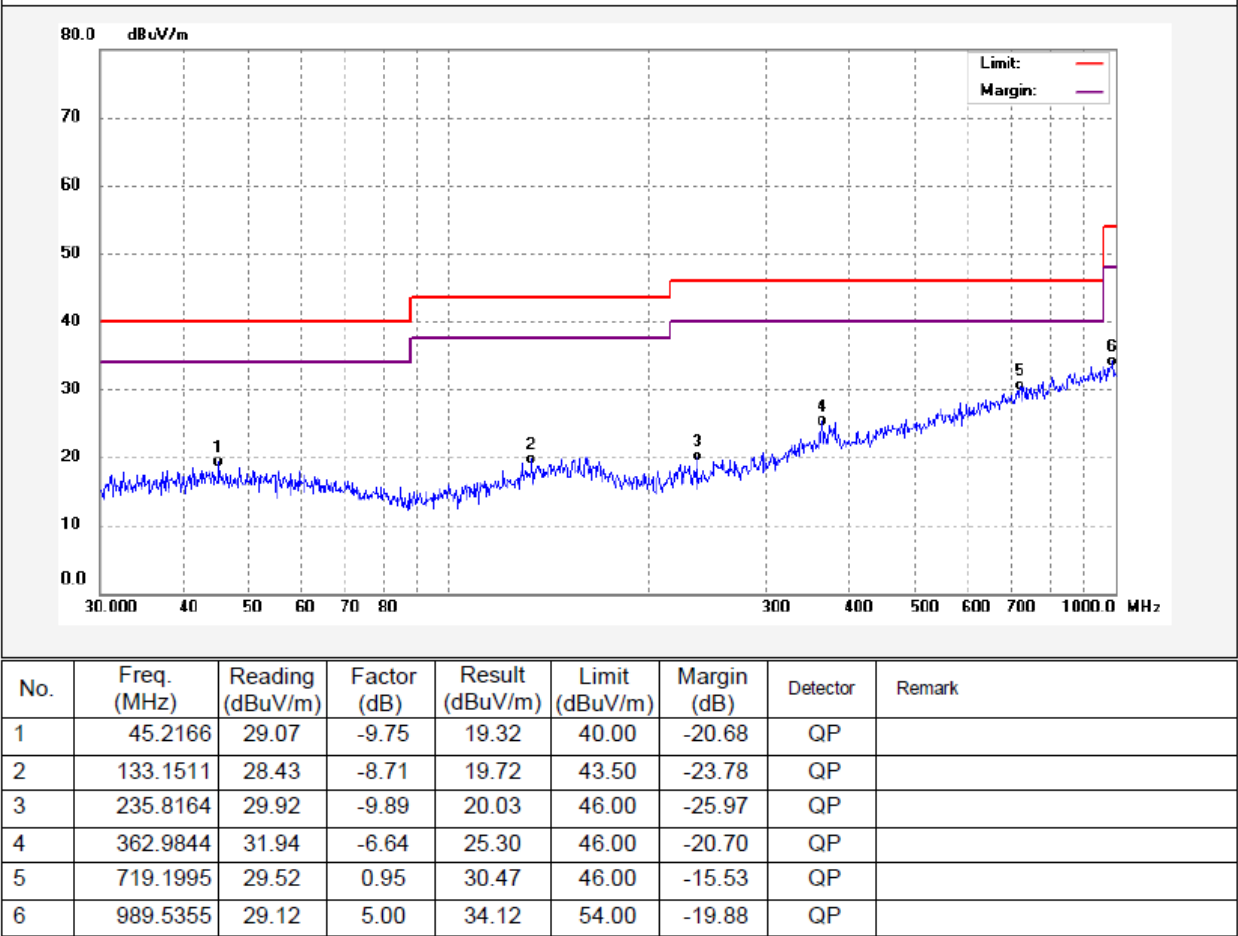


Test Frequency: 30MHz ~ 1000MHz

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



9 Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.215
Test Method: ANSI C63.10-2020

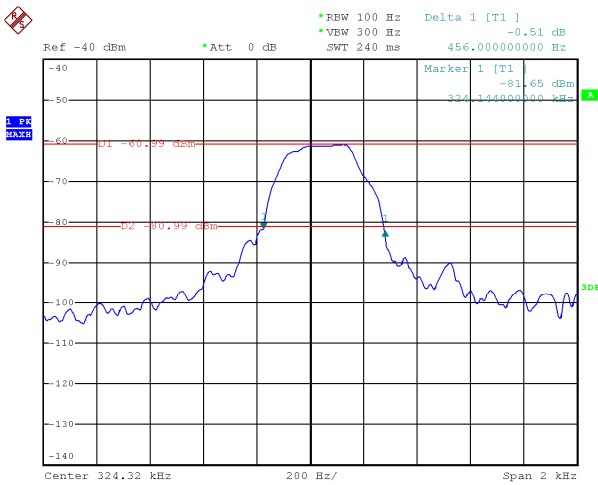
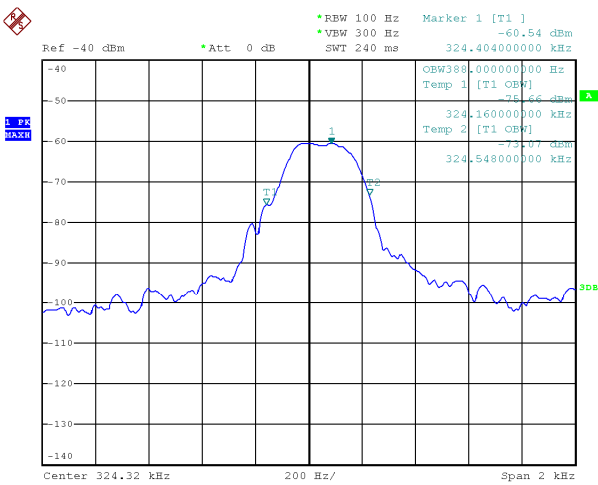
9.1 Test Procedure

- 1 The transmitter shall be operated at its maximum carrier power measured under normal test conditions;
- 2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- 3. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW), video bandwidth (VBW) is set to approximately 3 times of the RBW.
- 4. Measured the spectrum width with power higher than 20dB below carrier and 99% Bandwidth.

9.2 Test Result

Test Channel (kHz)	99% Bandwidth (kHz)	20dB Bandwidth Emission(kHz)
324.32	0.388	0.456

Test result plot as follows:



Date: 28.APR.2026 13:01:50

Date: 28.APR.2026 13:04:20

10 Antenna Requirement

According to the FCC Part 15 Paragraph 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Note: Please refer to EUT photos for more details.

11 RF Exposure

Note: Please refer to RF Exposure test report: WTD26D04089225W003.

12 Photographs of test setup and EUT

Note: Please refer to appendix: Appendix-PPM2AW-Photos.

===== End of Report =====