

## FCC Test Report

**Report No.:** RFBCBS-WTW-P25070320-1

**FCC ID:** K7SCTA006

**Test Model:** CTA006

**Received Date:** 2025/7/16

**Test Date:** 2025/7/26 ~ 2025/8/4

**Issued Date:** 2025/8/22

**Applicant:** Belkin International, Inc.

**Address:** 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
RFBCBS-WTW-P25070320-1	Original release	2025/8/22

## 1 Certificate of Conformity

**Product:** Stage PowerGrip

**Brand:** belkin

**Test Model:** CTA006

**Sample Status:** Engineering sample

**Applicant:** Belkin International, Inc.

**Test Date:** 2025/7/26 ~ 2025/8/4

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.209)  
ANSI C63.10-2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**                     *Polly Chien*                     , **Date:**                     2025/8/22                      
Polly Chien / Specialist

**Approved by :**                     *Jeremy Lin*                     , **Date:**                     2025/8/22                      
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.209)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -8.10dB at 1.91661MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -5.0dB at 34.85MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ( $\pm$ )
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.79 dB
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.90 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
	200MHz ~ 1000MHz	2.95 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Stage PowerGrip
Brand	belkin
Test Model	CTA006
Sample Status	Engineering sample
Power Supply Rating	Input: USB-C1: 5V=3A, 9V=2A, 12V=1.5A USB-C2 cable: 5V=3A, 9V=2A, 12V=1.5A Output: USB-C1: 5V=3A, 9V=2.22A, 12V=1.67A USB-C2 cable: 5V=3A, 9V=2.22A, 12V=1.67A
Modulation Type	FSK
Operating Frequency	111kHz~148kHz
Antenna Type	Coil antenna
Field Strength	-20.0dBuV/m (PK) (300m) -23.5dBuV/m (AV) (300m)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT contains following accessory device.

Type C Cable		
Brand	Model	Specification
-	-	Signal Line : 0.7m, shielding, without core (attached on EUT)

2. There are Bluetooth and WPT technology used for the EUT.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
4. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.

### 3.2 Description of Test Modes

1 Frequency tested to this EUT.

Test Frequency
127.7kHz

### 3.2.1 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis/ Charging Stand mode. Pre-scan these ways and find the worst case as a representative test condition. 2. Coil 1 can be operated in one of the frequencies, where the frequency range is 111 kHz ~ 148 kHz for iPhone_ 127.7 kHz and Android phone_ 127.7 kHz. Pre-scan these frequencies and find the worst case as a representative test condition. 3. EUT can be powered by notebook or adaptor. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis/ Charging Stand mode Worst Condition: Y-axis 2. 111 kHz ~ 148 kHz Worst Frequency:127.7kHz 3. Notebook or Adaptor Worst Condition: Adaptor

Test Item	EUT Configure Mode	Tested Channel	Modulation
20dB Bandwidth	A	127.7kHz	FSK
AC Power Conducted Emission	A	127.7kHz	FSK
	B	-	-
Radiated Emission Test	A	127.7kHz	FSK
	B	-	-
EUT Configure Mode:	A	Charging Mode	
	B	Standby Mode	

### 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Adapter	MI	AD201TW	N/A	N/A	Supplied by applicant
B.	iPhone 16 pro	APPLE	A3293	N/A	BCG-E8666A	Supplied by applicant

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB type C Cable	1	0.7	Y	0	Accessory of EUT (attached on EUT)

#### 3.3.1 Configuration of System under Test

Charging Mode:

Test Mode A



Standby Mode:

Test Mode B



### 3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C (15.209)**

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

##### For Frequency Below 30MHz

Frequency (MHz)	Field Strength (dBuV/m)		Measurement Distance (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

##### For Frequency Between 30-1000MHz

Frequency (MHz)	Field Strength (dBuV/m)		Measurement Distance (meters)
	uV/m	dBuV/m	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

#### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY51210203	2024/8/27	2025/8/26
Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
Pre-amplifier EMCI	EMC001340	980201	2024/9/24	2025/9/23
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
	EMC104-SM-SM-8000+ 3000	171005	2024/9/24	2025/9/23
Pre-Amplifier EMCI	EMC 184045	980116	2024/9/24	2025/9/23
	EMC118A45SE	980809	2025/4/24	2026/4/23
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2024/10/14	2025/10/13
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	2024/9/24	2025/9/23
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-440H	AT93021705	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller Max-Full	MF-7802	NA	NA	NA
Boresight antenna tower fixture BV	BAF-02	7	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in HY - 966 chamber 5.  
 3. Tested Date: 2025/7/26

### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and Ground-Parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9kHz-90kHz, 110kHz-490kHz) set to average detect function and peak detect function.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency 150 kHz to 30MHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Note:

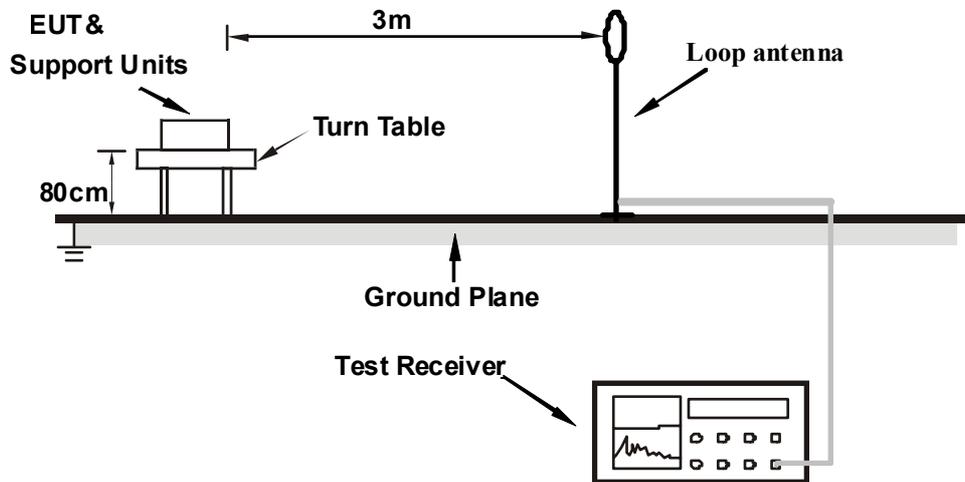
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

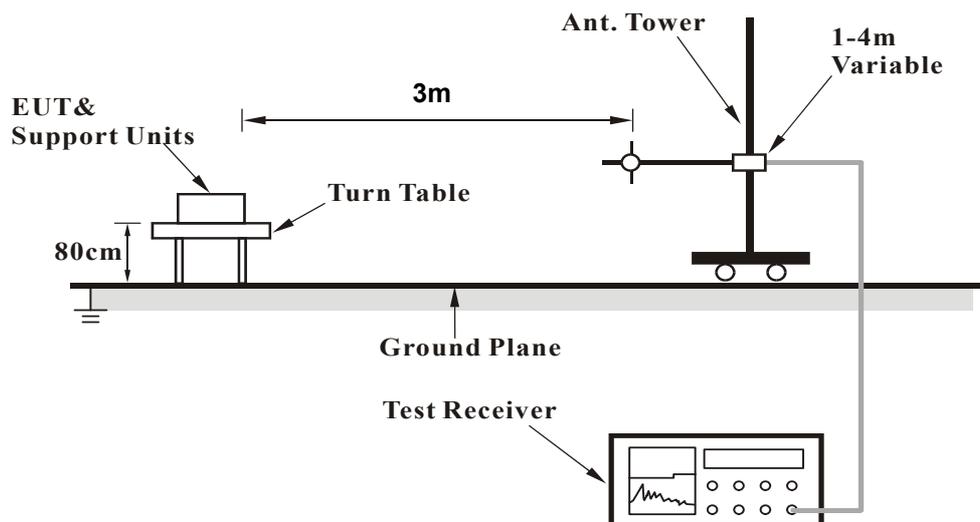
No deviation.

#### 4.1.5 Test Set Up

##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT Operating Conditions

##### Charging Mode:

- The EUT powered by adapter.
- Put the iPhone on the EUT (wireless charging) during the test.

##### Standby Mode:

- The EUT powered by adapter.

#### 4.1.7 Test Results

9 kHz ~ 490 kHz Data:

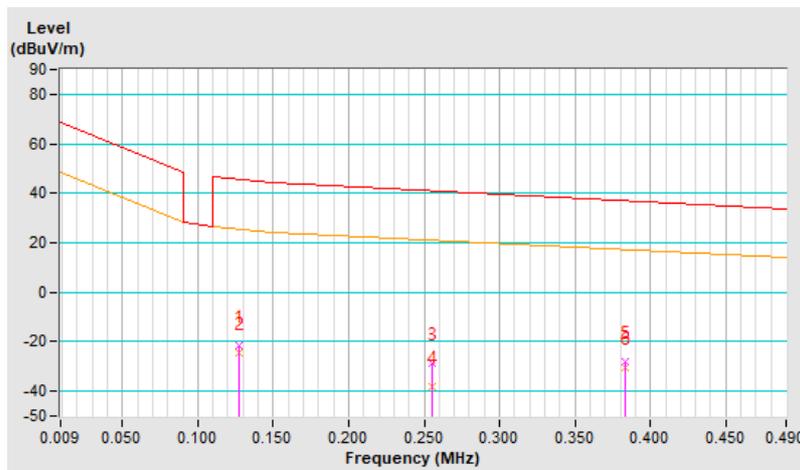
Mode A (Charging Mode)

RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 490 kHz	Detector Function & Bandwidth	Peak (PK) / Average (AV), 200 Hz; Peak (PK) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1277	-21.5 PK	45.5	-67.0	1.00	175	39.4	-60.9
2	*0.1277	-24.4 AV	25.5	-49.9	1.00	175	36.5	-60.9
3	0.2554	-28.5 PK	39.5	-68.0	1.00	91	31.8	-60.3
4	0.2554	-38.4 AV	19.5	-57.9	1.00	91	21.9	-60.3
5	0.3831	-28.0 PK	35.9	-63.9	1.00	352	32.5	-60.5
6	0.3831	-30.7 AV	15.9	-46.6	1.00	352	29.8	-60.5

Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " \* " : Fundamental frequency.
- The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3 m =  $40 \cdot \log(3/300) = -80$  dB

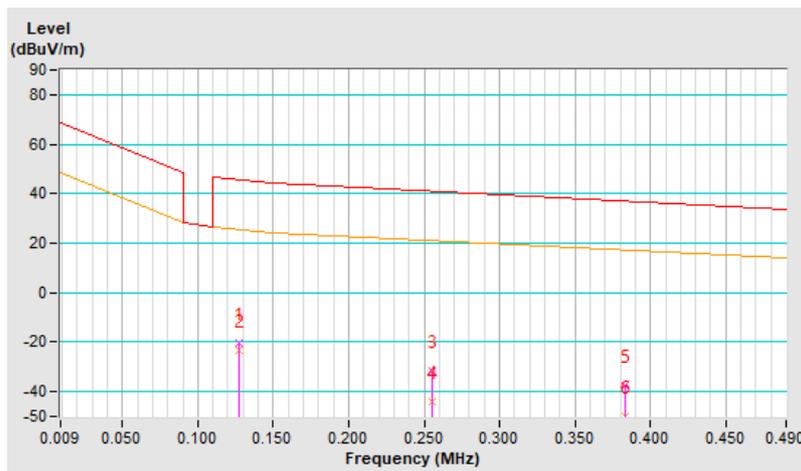


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 490 kHz	Detector Function & Bandwidth	Peak (PK) / Average (AV), 200 Hz; Peak (PK) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Perpendicular								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1277	-20.2 PK	45.5	-65.7	1.00	149	40.7	-60.9
2	*0.1277	-23.5 AV	25.5	-49.0	1.00	149	37.4	-60.9
3	0.2554	-31.9 PK	39.5	-71.4	1.00	245	28.4	-60.3
4	0.2554	-43.8 AV	19.5	-63.3	1.00	245	16.5	-60.3
5	0.3831	-37.6 PK	35.9	-73.5	1.00	62	22.9	-60.5
6	0.3831	-49.8 AV	15.9	-65.7	1.00	62	10.7	-60.5

Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " \* ": Fundamental frequency.
- The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3 m =  $40 \cdot \log(3/300) = -80$  dB

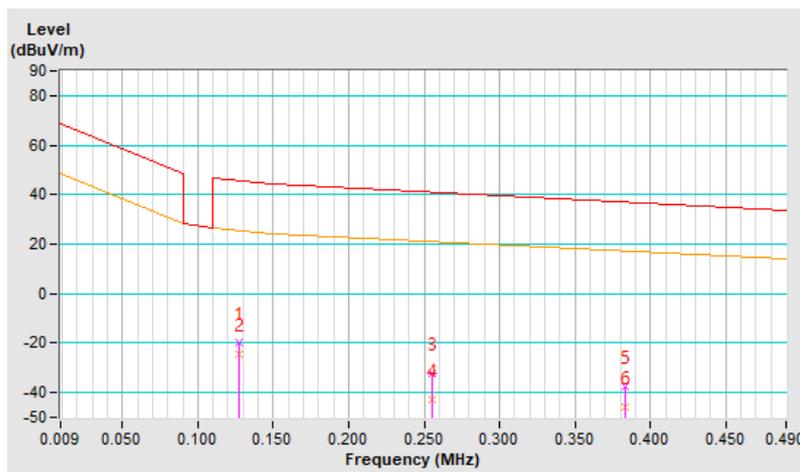


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 490 kHz	Detector Function & Bandwidth	Peak (PK) / Average (AV), 200 Hz; Peak (PK) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Ground-parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1277	-20.0 PK	45.5	-65.5	1.00	313	40.9	-60.9
2	*0.1277	-24.3 AV	25.5	-49.8	1.00	313	36.6	-60.9
3	0.2554	-32.4 PK	39.5	-71.9	1.00	350	27.9	-60.3
4	0.2554	-42.7 AV	19.5	-62.2	1.00	350	17.6	-60.3
5	0.3831	-37.3 PK	35.9	-73.2	1.00	160	23.2	-60.5
6	0.3831	-45.7 AV	15.9	-61.6	1.00	160	14.8	-60.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. The test distance for below 0.49 MHz is 3 m, extrapolate the measured field strength to a distance of 300 meters.  
Distance factor@3 m =  $40 \cdot \log(3/300) = -80$  dB



490 kHz ~ 30 MHz Data:

Mode A (Charging Mode)

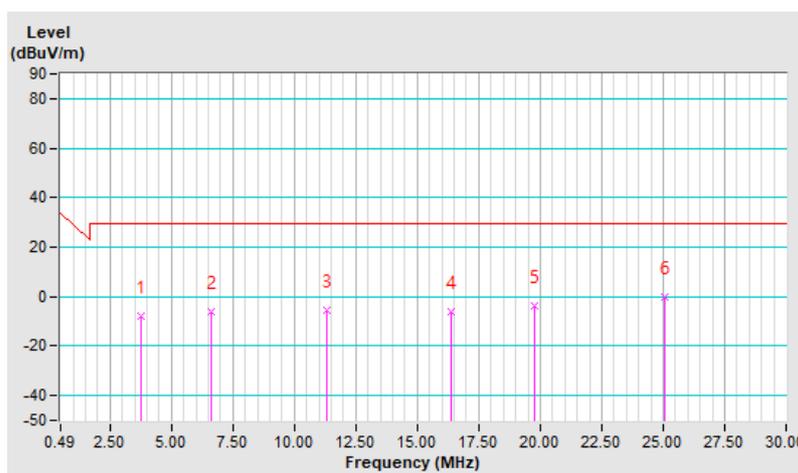
RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	490 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.7361	-7.7 QP	29.5	-37.2	1.00	212	12.6	-20.3
2	6.5986	-6.3 QP	29.5	-35.8	1.00	281	12.8	-19.1
3	11.3202	-5.3 QP	29.5	-34.8	1.00	52	13.4	-18.7
4	16.3959	-5.9 QP	29.5	-35.4	1.00	331	12.5	-18.4
5	19.7895	-3.8 QP	29.5	-33.3	1.00	23	14.3	-18.1
6	25.0423	-0.3 QP	29.5	-29.8	1.00	14	17.1	-17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.

Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB

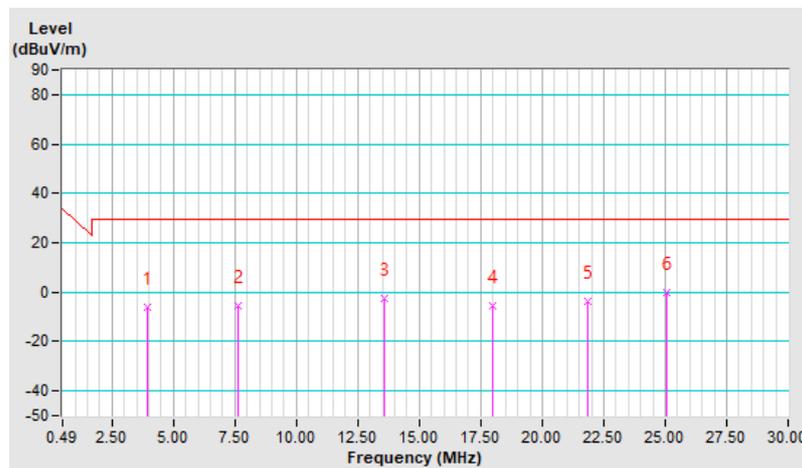


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	490 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Perpendicular								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.9132	-6.1 QP	29.5	-35.6	1.00	282	14.2	-20.3
2	7.6314	-5.6 QP	29.5	-35.1	1.00	309	13.3	-18.9
3	13.5629	-2.5 QP	29.5	-32.0	1.00	153	16.1	-18.6
4	17.9599	-5.3 QP	29.5	-34.8	1.00	23	13.0	-18.3
5	21.8257	-4.0 QP	29.5	-33.5	1.00	5	14.2	-18.2
6	25.0423	-0.3 QP	29.5	-29.8	1.00	2	17.1	-17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB

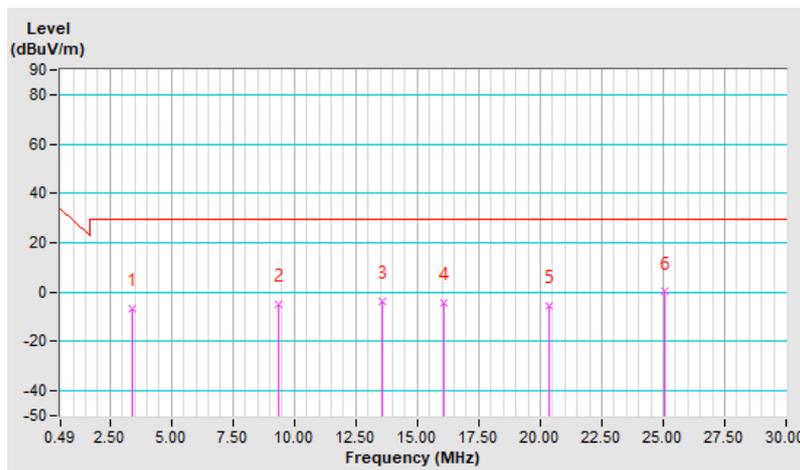


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	490 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Ground-parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.4115	-6.6 QP	29.5	-36.1	1.00	202	13.8	-20.4
2	9.3430	-5.2 QP	29.5	-34.7	1.00	109	13.7	-18.9
3	13.5629	-3.8 QP	29.5	-33.3	1.00	22	14.8	-18.6
4	16.0713	-4.3 QP	29.5	-33.8	1.00	2	14.1	-18.4
5	20.3502	-5.4 QP	29.5	-34.9	1.00	59	12.7	-18.1
6	25.0718	0.1 QP	29.5	-29.4	1.00	33	17.6	-17.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB



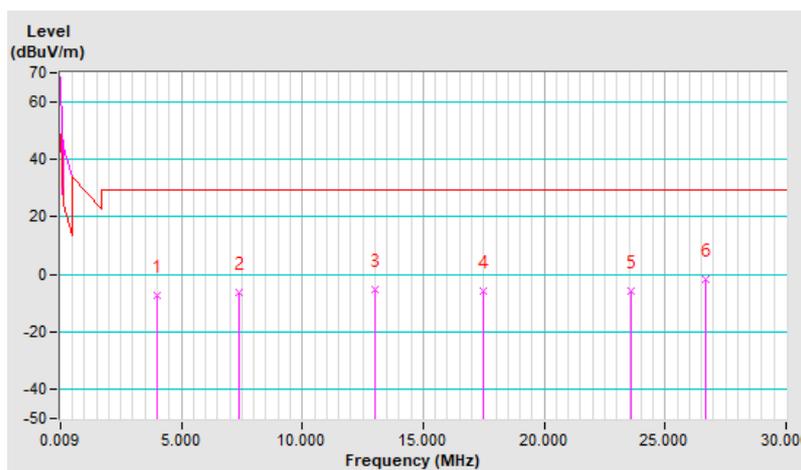
Mode B (Standby Mode)

RF Mode	Standby		
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 200 Hz; Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.9978	-7.4 QP	29.5	-36.9	1.00	265	12.9	-20.3
2	7.3568	-6.4 QP	29.5	-35.9	1.00	273	12.6	-19.0
3	12.9951	-5.3 QP	29.5	-34.8	1.00	289	13.3	-18.6
4	17.4638	-5.6 QP	29.5	-35.1	1.00	217	12.7	-18.3
5	23.5819	-6.0 QP	29.5	-35.5	1.00	109	12.3	-18.3
6	26.6710	-1.8 QP	29.5	-31.3	1.00	356	16.4	-18.2

Remarks:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB

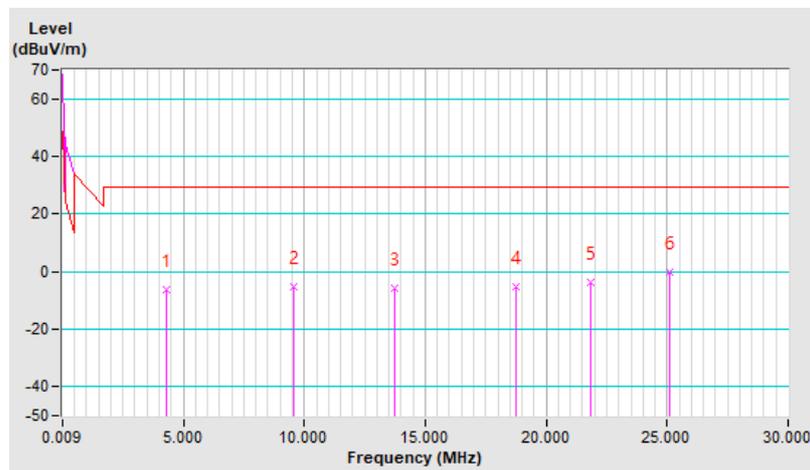


RF Mode	Standby		
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 200 Hz; Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Perpendicular								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.2977	-6.1 QP	29.5	-35.6	1.00	278	14.3	-20.4
2	9.5761	-5.2 QP	29.5	-34.7	1.00	216	13.7	-18.9
3	13.7449	-5.7 QP	29.5	-35.2	1.00	32	12.9	-18.6
4	18.7534	-5.2 QP	29.5	-34.7	1.00	2	13.0	-18.2
5	21.8424	-3.6 QP	29.5	-33.1	1.00	79	14.6	-18.2
6	25.0815	0.0 QP	29.5	-29.5	1.00	178	17.5	-17.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB

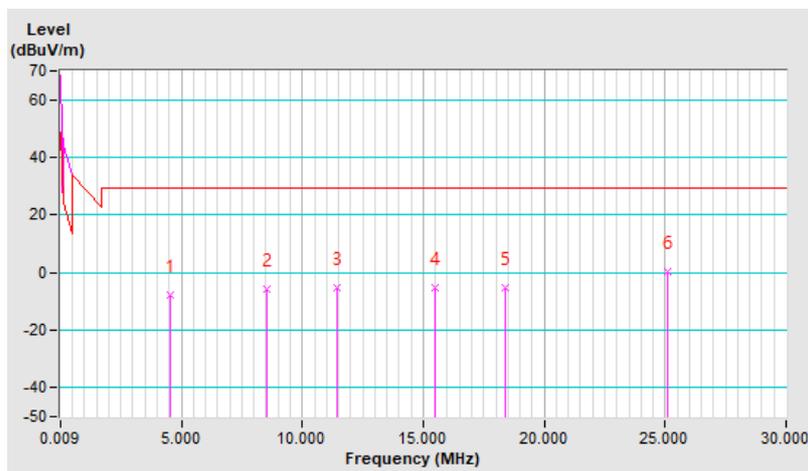


RF Mode	Standby		
Frequency Range	9 kHz ~ 150 kHz; 150 kHz ~ 30 MHz	Detector Function & Bandwidth	Quasi-Peak (QP), 200 Hz; Quasi-Peak (QP), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity : Ground-parallel								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.5676	-7.6 QP	29.5	-37.1	1.00	123	12.8	-20.4
2	8.5264	-5.9 QP	29.5	-35.4	1.00	343	13.1	-19.0
3	11.4356	-5.2 QP	29.5	-34.7	1.00	147	13.5	-18.7
4	15.4844	-5.1 QP	29.5	-34.6	1.00	191	13.4	-18.5
5	18.3935	-5.4 QP	29.5	-34.9	1.00	102	12.9	-18.3
6	25.0815	0.2 QP	29.5	-29.3	1.00	162	17.7	-17.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. The test distance for 0.49 ~ 30 MHz is 3 m, extrapolate the measured field strength to a distance of 30 meters.  
Distance factor@3 m =  $40 \cdot \log(3/30) = -40$  dB



Below 1GHz Data:

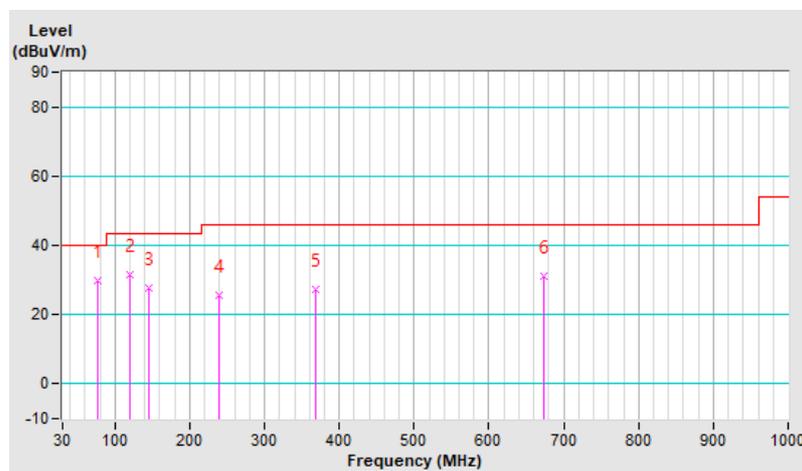
Mode A (Charging Mode)

RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	77.53	29.7 QP	40.0	-10.3	1.00 H	72	46.1	-16.4
2	120.21	31.4 QP	43.5	-12.1	1.00 H	83	45.5	-14.1
3	144.46	27.7 QP	43.5	-15.8	2.00 H	259	40.1	-12.4
4	239.52	25.8 QP	46.0	-20.2	2.00 H	191	39.7	-13.9
5	368.53	27.1 QP	46.0	-18.9	1.50 H	75	37.3	-10.2
6	673.11	31.0 QP	46.0	-15.0	1.50 H	131	34.2	-3.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

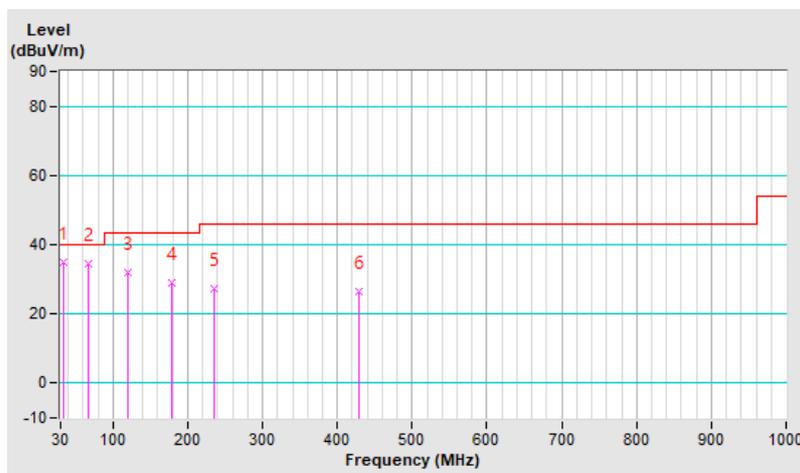


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	35.0 QP	40.0	-5.0	1.00 V	347	47.8	-12.8
2	67.83	34.5 QP	40.0	-5.5	1.00 V	93	48.8	-14.3
3	119.24	31.9 QP	43.5	-11.6	1.50 V	96	46.1	-14.2
4	178.41	29.1 QP	43.5	-14.4	1.00 V	170	42.6	-13.5
5	234.67	27.4 QP	46.0	-18.6	2.00 V	197	41.7	-14.3
6	428.67	26.5 QP	46.0	-19.5	1.50 V	36	34.7	-8.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



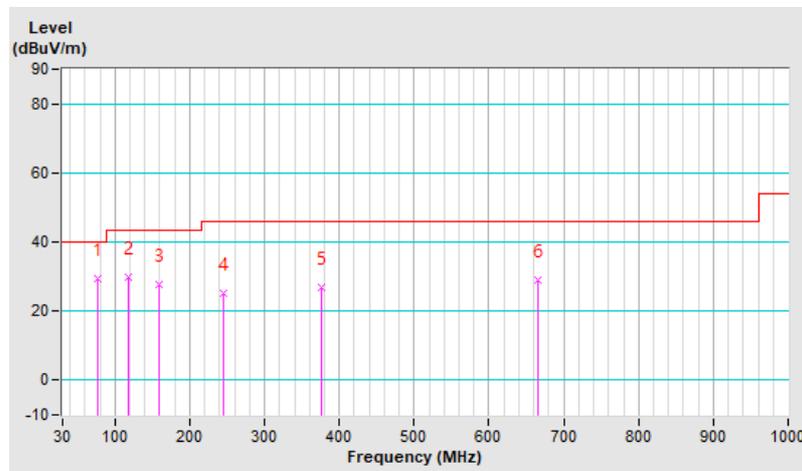
Mode B (Standby Mode)

RF Mode	Standby		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	77.53	29.4 QP	40.0	-10.6	1.50 H	210	45.8	-16.4
2	117.30	29.7 QP	43.5	-13.8	1.50 H	89	44.0	-14.3
3	159.98	27.6 QP	43.5	-15.9	2.00 H	81	39.8	-12.2
4	245.34	25.3 QP	46.0	-20.7	1.00 H	18	39.0	-13.7
5	375.32	26.9 QP	46.0	-19.1	1.50 H	89	36.8	-9.9
6	666.32	28.9 QP	46.0	-17.1	1.00 H	135	32.2	-3.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

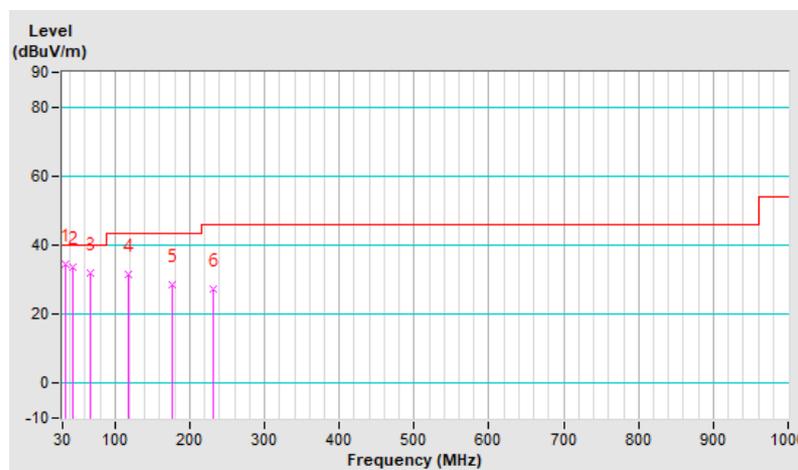


RF Mode	Standby		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 65% RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.85	34.3 QP	40.0	-5.7	1.00 V	141	47.1	-12.8
2	44.55	33.6 QP	40.0	-6.4	1.00 V	348	45.8	-12.2
3	67.83	32.1 QP	40.0	-7.9	1.00 V	162	46.4	-14.3
4	118.27	31.5 QP	43.5	-12.0	1.00 V	157	45.8	-14.3
5	176.47	28.7 QP	43.5	-14.8	2.00 V	288	42.0	-13.3
6	231.76	27.1 QP	46.0	-18.9	2.00 V	28	41.8	-14.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/4/27	2026/4/26
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HY - Conduction 2.

3. Tested Date: 2025/7/29

#### 4.2.3 Test Procedures

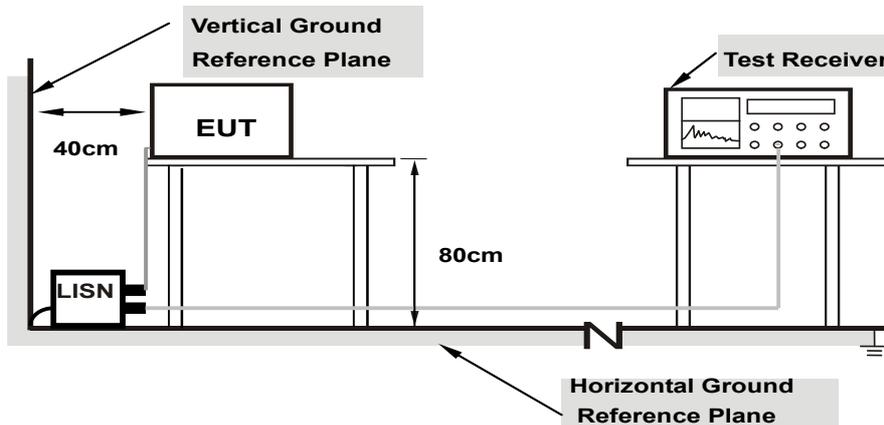
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



**Note:** 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

#### 4.2.7 Test Results

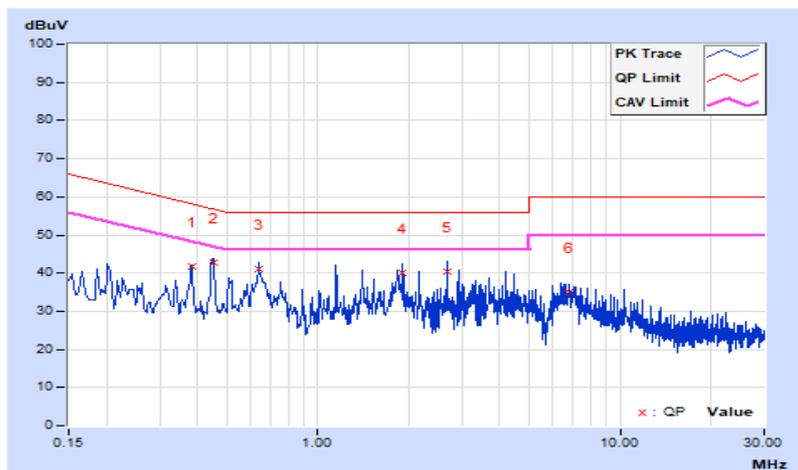
##### Mode A (Charging Mode)

RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.38200	10.36	31.54	29.38	41.90	39.74	58.24	48.24	-16.34	-8.50
2	0.45400	10.37	32.25	16.91	42.62	27.28	56.80	46.80	-14.18	-19.52
3	0.63800	10.39	30.66	26.55	41.05	36.94	56.00	46.00	-14.95	-9.06
4	1.91000	10.50	29.55	26.04	40.05	36.54	56.00	46.00	-15.95	-9.46
5	2.67800	10.53	29.81	27.35	40.34	37.88	56.00	46.00	-15.66	-8.12
6	6.75800	10.60	24.48	19.29	35.08	29.89	60.00	50.00	-24.92	-20.11

##### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

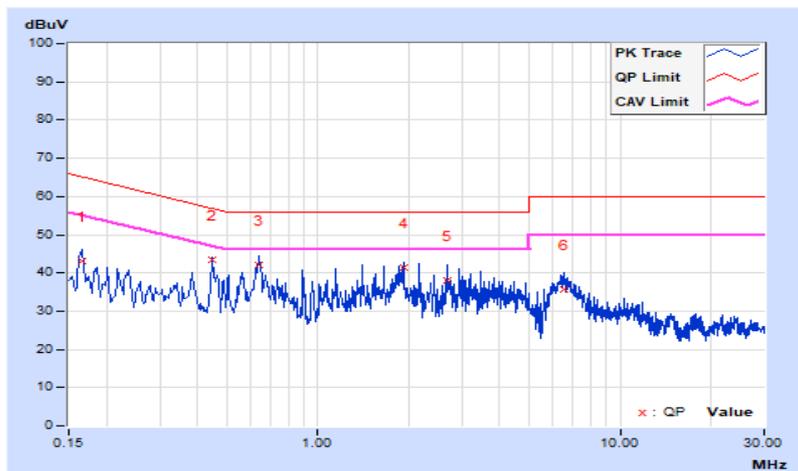


RF Mode	WPT	Channel	CH 1 : 127.7 kHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	10.34	32.67	20.66	43.01	31.00	65.16	55.16	-22.15	-24.16
2	0.45000	10.40	32.91	26.41	43.31	36.81	56.88	46.88	-13.57	-10.07
3	0.63800	10.42	31.56	27.37	41.98	37.79	56.00	46.00	-14.02	-8.21
<b>4</b>	<b>1.91661</b>	<b>10.51</b>	<b>30.85</b>	<b>27.39</b>	<b>41.36</b>	<b>37.90</b>	<b>56.00</b>	<b>46.00</b>	<b>-14.64</b>	<b>-8.10</b>
5	2.67800	10.55	27.40	24.44	37.95	34.99	56.00	46.00	-18.05	-11.01
6	6.53800	10.68	25.17	16.34	35.85	27.02	60.00	50.00	-24.15	-22.98

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



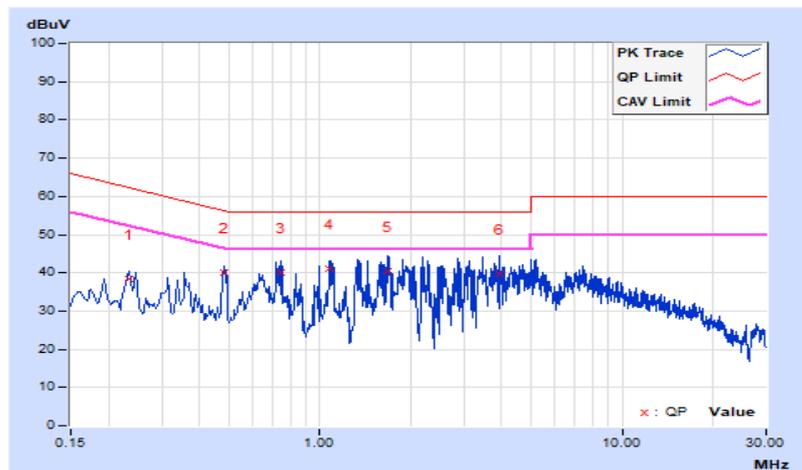
Mode B (Standby Mode)

RF Mode	Standby		
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23400	10.34	27.97	19.10	38.31	29.44	62.31	52.31	-24.00	-22.87
2	0.48191	10.37	29.83	20.36	40.20	30.73	56.31	46.31	-16.11	-15.58
3	0.74600	10.40	29.63	17.50	40.03	27.90	56.00	46.00	-15.97	-18.10
4	1.07800	10.44	30.80	18.46	41.24	28.90	56.00	46.00	-14.76	-17.10
5	1.68200	10.48	29.95	17.78	40.43	28.26	56.00	46.00	-15.57	-17.74
6	3.91800	10.58	29.03	9.49	39.61	20.07	56.00	46.00	-16.39	-25.93

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

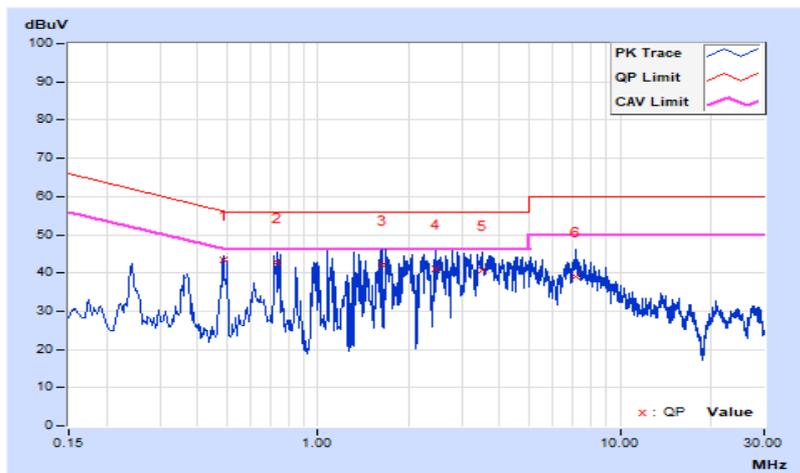


RF Mode	Standby		
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 69% RH
Tested By	Thomas Cheng		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.48600	10.40	32.93	25.24	43.33	35.64	56.24	46.24	-12.91	-10.60
2	0.73400	10.43	32.46	21.62	42.89	32.05	56.00	46.00	-13.11	-13.95
3	1.63800	10.50	31.59	15.02	42.09	25.52	56.00	46.00	-13.91	-20.48
4	2.46600	10.54	30.61	12.37	41.15	22.91	56.00	46.00	-14.85	-23.09
5	3.49400	10.60	30.21	19.75	40.81	30.35	56.00	46.00	-15.19	-15.65
6	7.11800	10.69	28.46	20.03	39.15	30.72	60.00	50.00	-20.85	-19.28

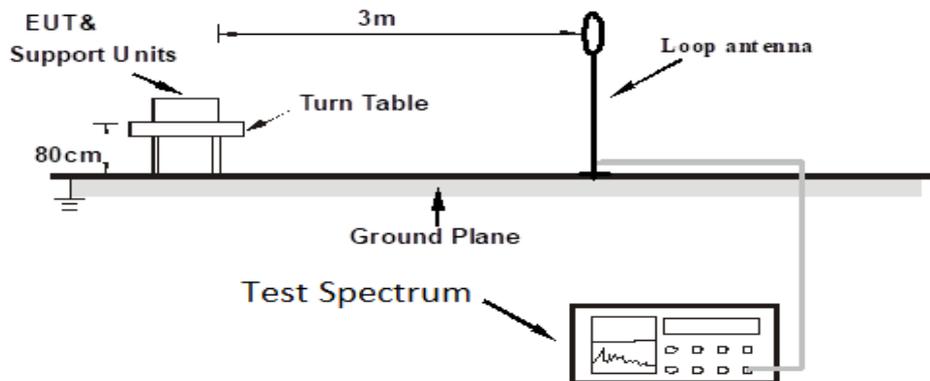
Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



### 4.3 20dB Bandwidth Measurement

#### 4.3.1 Test Setup



#### 4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.3 Test Procedure

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Then the Loop antenna was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband loop antenna, which is fixed of a 1m height above the ground, and set away from 3m to the EUT to find the disturbance reading on each frequency.
- The test-spectrum system was set to peak detect function and specified bandwidth.

#### 4.3.4 Deviation from Test Standard

No deviation.

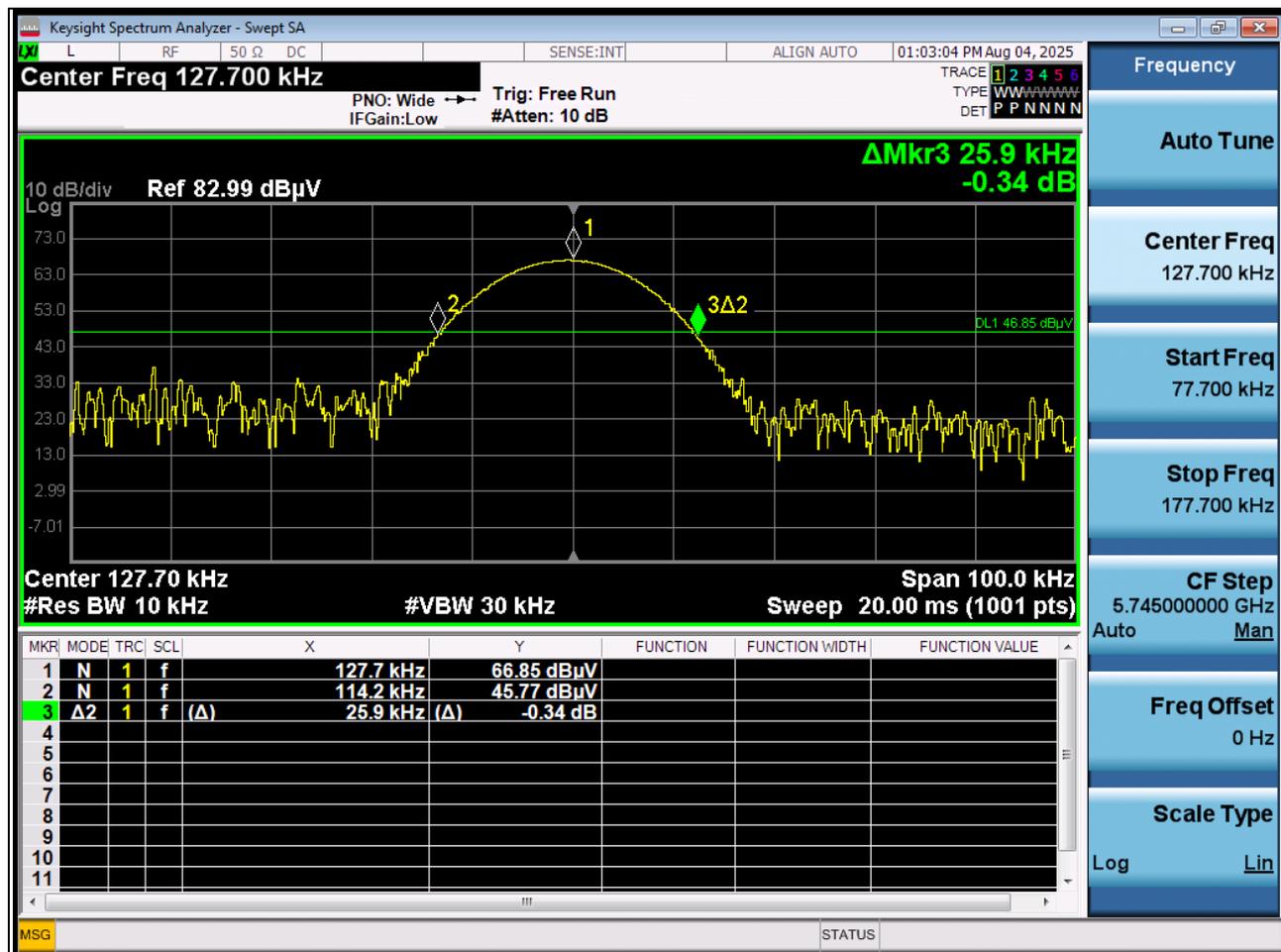
#### 4.3.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously.

### 4.3.6 Test Results

#### Test Mode A

Frequency (kHz)	20dB Bandwidth (kHz)	Pass / Fail
127.7	25.9	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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**Web Site:** <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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