

# **TEST REPORT**

Report No.: BCTC2209090621-1E

Applicant: mophie LLC

Product Name: mophie MagSafe Charger

Model/Type MAG

reference:

MAGSFE-CARMNT-A

Tested Date: 2022-09-01 to 2022-09-07

Issued Date: 2022-09-07

Shenzhen BCTC Testing Co., Ltd.



No.: BCTC/RF-EMC-005 Page 1 of 25 / / / Edition: A



## **FCC ID:2ACWB-MAGMNT**

Product Name: mophie MagSafe Charger

Trademark: mophie

Model/Type reference: MAGSFE-CARMNT-A

Prepared For: mophie LLC

Address: 6244 Technology Ave. Kalamazoo, MI 49009, United States of America.

Manufacturer: mophie LLC

Address: 6244 Technology Ave. Kalamazoo, MI 49009, United States of America.

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Sample Received Date: 2022-09-01

Sample tested Date: 2022-09-01 to 2022-09-07

Issue Date: 2022-09-07

Report No.: BCTC2209090621-1E

Test Standards: FCC Part15.209 ANSI C63.10-2013

Test Results: PASS

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

No.: BCTC/RF-EMC-005 Page 2 of 25 / / / Edition: A.5



## **Table Of Content**

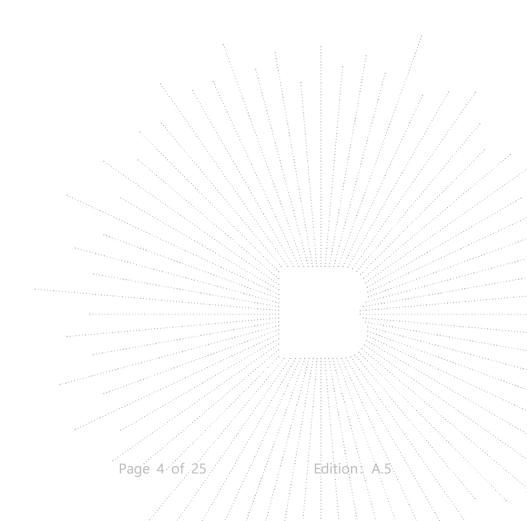
t Report Declaration	Page
Product Information And Test Setup	7
Product Information	7
Test Setup Configuration	7
Support Equipment	8
Test Mode	8
Test Facility And Test Instrument Used	9
Test Facility	9
Test Instrument Used	9
Conducted Emissions	11
Block Diagram Of Test Setup	11
Limit	11
Test procedure	11
EUT operating Conditions	11
Test Result	12
Radiated Emissions	14
Block Diagram Of Test Setup	14
Test procedure	15
Test Result	17
Bandwidth Test	20
Test Procedure	20
Test Result	20
Antenna Requirements	21
Test Result	21
EUT Photographs	22
EUT Test Setup Photographs	23
	Report Declaration  Version Test Summary  Measurement Uncertainty  Product Information And Test Setup  Product Information  Test Setup Configuration  Support Equipment  Test Mode Test Facility And Test Instrument Used.  Test Facility Test Instrument Used.  Conducted Emissions  Block Diagram Of Test Setup.  Limit  Test procedure  EUT operating Conditions  Test Result  Radiated Emissions  Block Diagram Of Test Setup.  Limit  Test procedure  Test Result  Radiated Emissions  Block Diagram Of Test Setup  Limit  Test procedure  Test Procedure  Test Result  Bandwidth Test.  Test Procedure  Test Result  Test Result  Bandwidth Test  Test Result  EUT Photographs  EUT Test Setup Photographs

(Note: N/A Means Not Applicable)



#### 1. Version

Report No.	Issue Date	Description	Approved
BCTC2209090621-1E	2022-09-07	Original	Valid

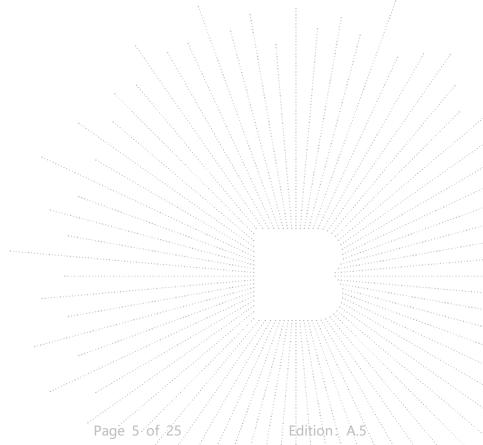




## 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS

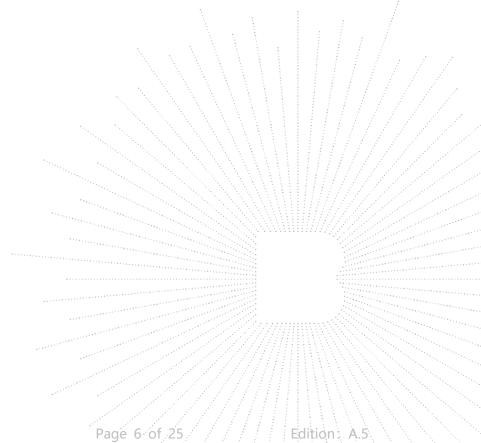




#### **Measurement Uncertainty** 3.

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	Conducted Emission (150kHz-30MHz)	U=3.2dB
3	humidity uncertainty	U=5.3%
4	Temperature uncertainty	U=0.59°C





## 4. Product Information And Test Setup

#### 4.1 Product Information

Model/Type reference: MAGSFE-CARMNT-A

Model differences: N/A Hardware Version: N/A Software Version: N/A

Product Description: mophie MagSafe Charger

Operation Frequency: 115kHz-205kHz Antenna installation: loop coil antenna

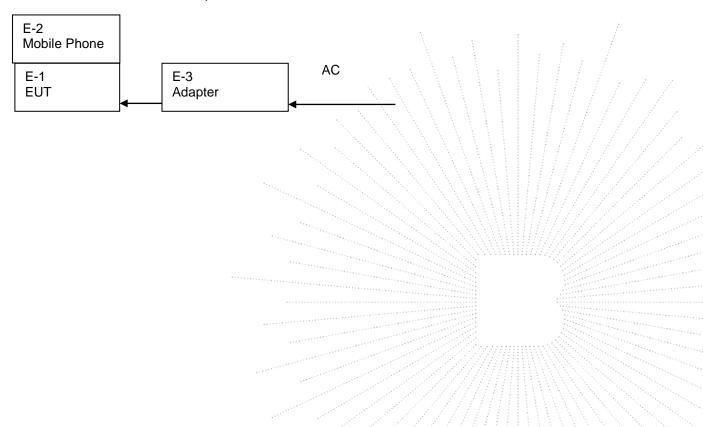
Ratings: Input(Type-C):9V DC,2.22A

#### 4.2 Test Setup Configuration

No.: BCTC/RF-EMC-005

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission/Radiated Spurious Emission:



Page 7 of 25

Edition: A.



#### 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	mophie MagSafe Charger	mophie	MAGSFE-CA RMNT-A		EUT
E-2	Car charger	mophie	CAR-20W-US BC-A		auxiliary
E-3	Adapter		BCTC001		auxiliary
E-4	Mobile Phone		Apple 12		auxiliary

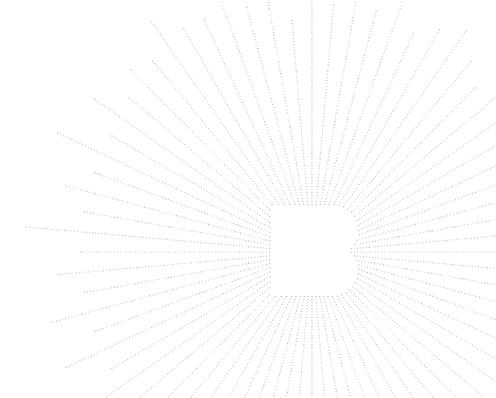
#### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

#### 4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Ī	Test Mode 1	Wireless Charging
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No.: BCTC/RF-EMC-005 Page 8 of 25 / / / /



#### 5. Test Facility And Test Instrument Used

#### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

#### 5.2 Test Instrument Used

	Conducted Emissions Test					
Equipment Manufacturer Model# Serial# Last Cal. Next C						
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023	
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023	
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\	
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023	

				· · · · · · · · · · · · · · · · · · ·	
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419		May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	May 24, 2022	May 23, 2023

No.: BCTC/RF-EMC-005 Page 9 of 25 / / Edition A.5



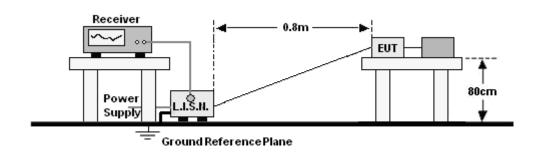
Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	,	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 26, 2022	May 25, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\ \ <b>\</b>	

No.: BCTC/RF-EMC-005 Page 10 of 25 / / Edition: A.5



#### 6. Conducted Emissions

#### 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

Fraguency (MU=)	Limit (	dBuV)
Frequency (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

#### 6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

#### 6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

No.: BCTC/RF-EMC-005 Page 11 of 25 / / / / Edition: A.5

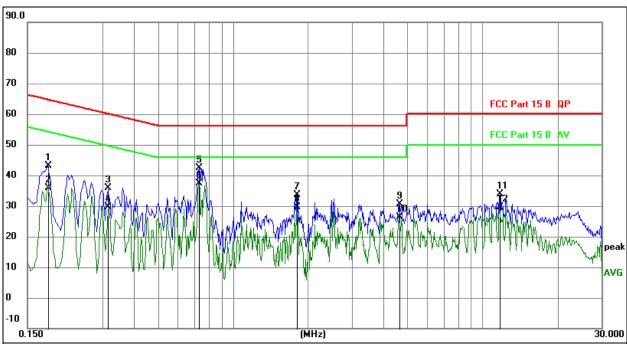
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



#### 6.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



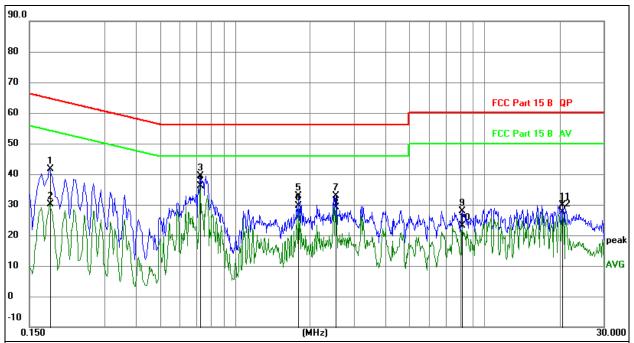
#### Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   Measurement = Reading Level + Correct Factor
   Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1815	23.33	19.75	43.08	64.42	-21.34	QP
2		0.1815	16.05	19.75	35.80	54.42	-18.62	AVG
3		0.3165	16.02	19.77	35.79	59.80	-24.01	QP
4		0.3165	9.88	19.77	29.65	49.80	-20.15	AVG
5		0.7304	22.72	19.74	42.46	56.00	-13.54	QP
6	*	0.7304	17.72	19.74	37.46	46.00	-8.54	AVG
7		1.8014	13.80	19.86	33.66	56.00	-22.34	QP
8		1.8014	9.75	19.86	29.61	46.00	-16.39	AVG
9		4.6364	10.56	20.12	30.68	56.00	-25.32	QP
10		4.6364	6.32	20.12	26.44	46.00	-19.56	AVG
11		11.7015	13.56	20.28	33.84	60.00	-26.16	QP
12		11.7015	9.38	20.28	29.66	50.00	-20.34	AVG



Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



#### Remark:

- 1. All readings are Quasi-Peak and Average values.
  2. Factor = Insertion Loss + Cable Loss.
  3. Measurement = Reading Level + Correct Factor
  4. Over = Measurement Limit

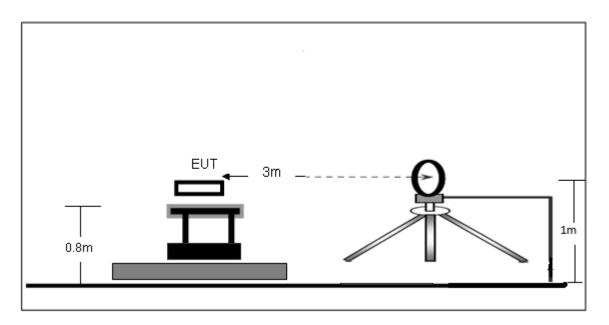
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1806	21.93	19.75	41.68	64.46	-22.78	QP
2		0.1806	10.28	19.75	30.03	54.46	-24.43	AVG
3		0.7236	19.59	19.74	39.33	56.00	-16.67	QP
4	*	0.7236	16.27	19.74	36.01	46.00	-9.99	AVG
5		1.8000	13.06	19.86	32.92	56.00	-23.08	QP
6		1.8000	9.87	19.86	29.73	46.00	-16.27	AVG
7		2.5400	12.83	19.94	32.77	56.00	-23.23	QP
8		2.5400	9.30	19.94	29.24	46.00	-16.76	AVG
9		8.1483	7.73	20.22	27.95	60.00	-32.05	QP
10		8.1483	3.00	20.22	23.22	50.00	-26.78	AVG
11		20.4854	9.39	20.51	29.90	60.00	-30.10	QP
12		20.4854	7.14	20.51	27.65	50.00	-22.35	AVG



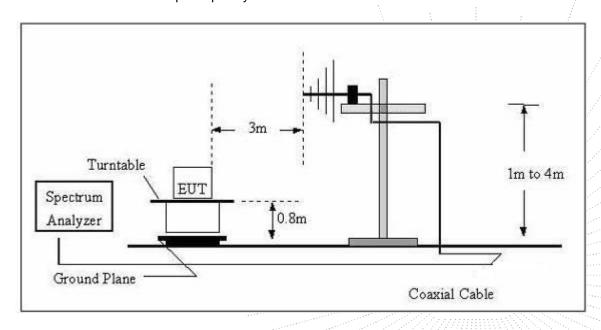
#### 7. Radiated Emissions

## 7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



No.: BCTC/RF-EMC-005 Page 14 of 25 / / / Edition: A.5



#### 7.2 Limit

FCC §15.209; §15.205.

Test Standard FCC Part15 C Section 15.209 and 15.205								
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3			
	88MHz~216MHz	150	43.5	Quasi-peak	3			
	216MHz~960MHz	200	46.0	Quasi-peak	3			
	960MHz~1000MHz	500	54.0	Quasi-peak	3			
	Above 1000MHz	500	54.0	Average	3			
	Above 1000MHZ		74.0	Peak	3			

#### 7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

No.: BCTC/RF-EMC-005 Page 15 of 25 / / / / Edition: A.5



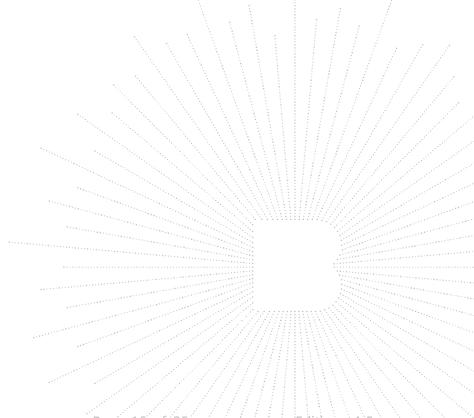
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.



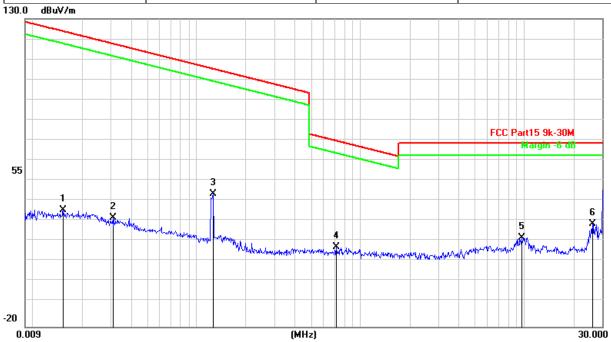
No.: BCTC/RF-EMC-005 Page 16 of 25 / / / | Edition: A



#### 7.4 Test Result

#### 9kHz-30MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 1	Polarization :	



Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
0.0154	47.55	-10.57	36.98	143.85	-106.87	PK
0.0154	43.56	-10.57	32.99	123.85	-90.86	AV
0.0309	43.76	-10.71	33.05	137.81	-104.76	PK
0.0309	40.54	-10.71	29.83	117.81	-87.98	AV
0.1267	54.74	-10.11	44.63	125.55	-80.92	PK
0.1267	53.82	-10.11	43.71	105.55	-61.84	AV
0.7130	28.94	-10.25	18.69	90.54	-71.85	PK
0.7130	25.92	-10.25	15.67	70.54	-54.87	AV
9.7150	33.24	-9.79	23.45	69.54	-46.09	QP
26.1356	39.20	-9.07	30.13	69.54	-39.41	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.

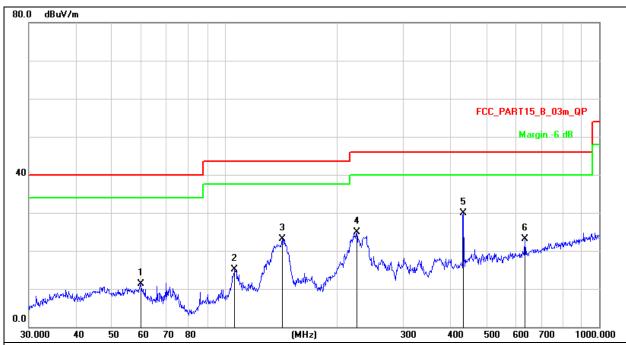
No.: BCTC/RF-EMC-005 Page 17 of 25 Edition: A.5



Between 30MHz - 1GHz

Report No.: BCTC2209090621-1E

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



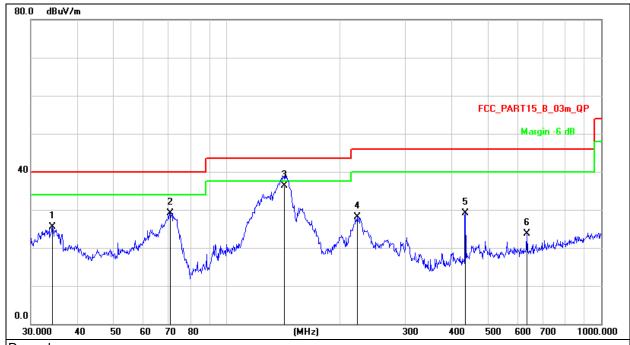
#### Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk. Fr	Readin eq. Level	g Correc Factor		e- Limit	Over	
	М	Hz dBuV	dB	dBuV/m	dB/m	dB	Detector
1	59.64	493 28.06	-16.67	11.39	40.00	-28.61	QP
2	106.38	850 32.27	-17.13	15.14	43.50	-28.36	QP
3	142.32	243 42.48	-19.38	23.10	43.50	-20.40	QP
4	225.30	080 39.94	-15.06	24.88	46.00	-21.12	QP
5	* 434.00	651 39.45	-9.51	29.94	46.00	-16.06	QP
6	633.90	073 28.01	-4.97	23.04	46.00	-22.96	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



#### Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	-
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		34.2760	42.82	-17.34	25.48	40.00	-14.52	QP
2		70.8315	48.39	-19.28	29.11	40.00	-10.89	QP
3	* 1	42.3243	55.61	-19.38	36.23	43.50	-7.27	QP
4	2	222.9502	43.34	-15.14	28.20	46.00	-17.80	QP
5	4	34.0651	38.63	-9.51	29.12	46.00	-16.88	QP
6	6	33.9073	28.67	-4.97	23.70	46.00	-22.30	QP



#### 8. Bandwidth Test

#### 8.1 Test Procedure

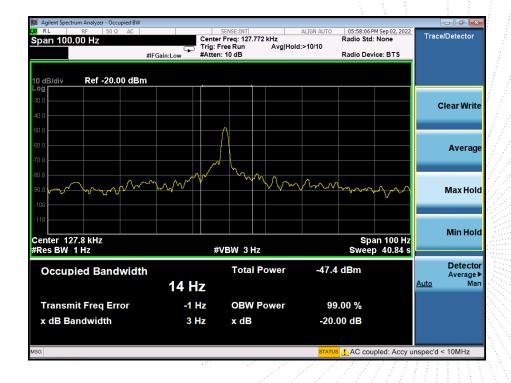
- 1. Set RBW = 1%~5% OBW.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

#### 8.2 Test Setup



#### 8.3 Test Result

Frequency (KHz) 20dB bandwidth (KHz)		99% bandwidth (KHz)	Result
127.8	0.03	0.014	Pass /





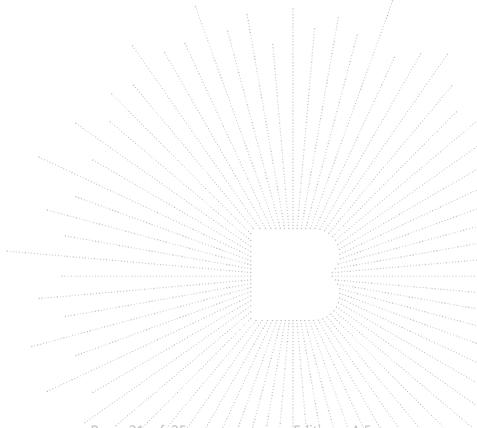
#### 9. Antenna Requirements

#### 9.1 Limit

For intentional device, according to FCC 47 CFR 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 9.2 Test Result

The EUT antenna is loop coil antenna, fulfill the requirement of this section.



No.: BCTC/RF-EMC-005 Page 21 of 25 / / / Edition: A.5



#### 10. EUT Photographs

EUT Photo 1 (wireless charging window & dash mount with Magsafe)



EUT Photo 2 (wireless charging vent mount with Magsafe)

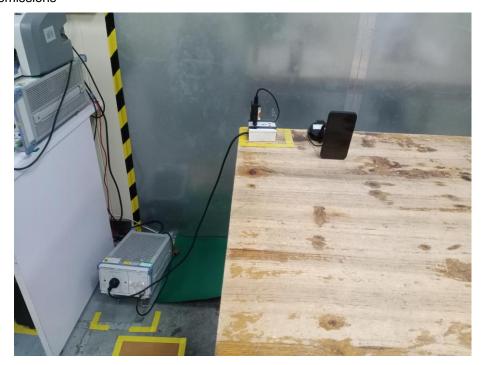


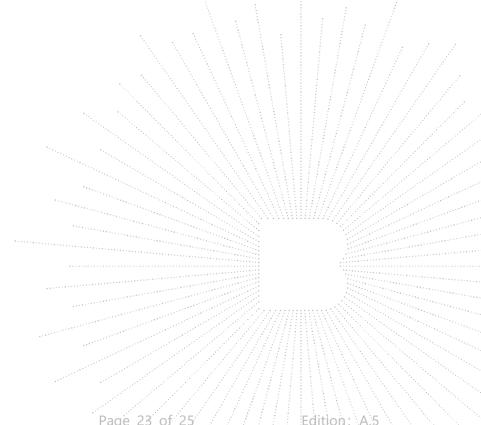
NOTE: Appendix-Photographs Of EUT Constructional Details



## 11. EUT Test Setup Photographs

#### Conducted emissions

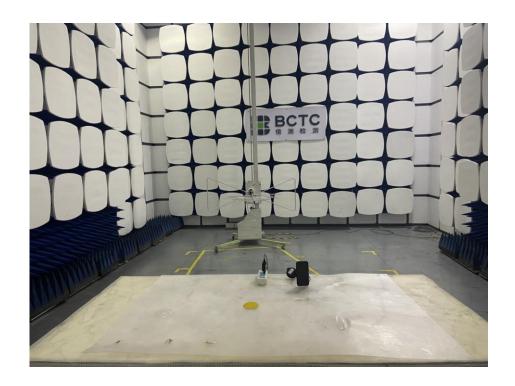


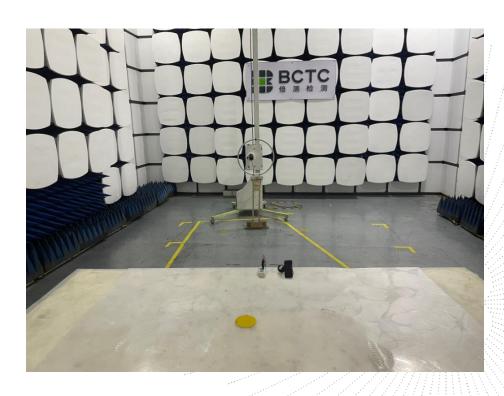






#### Radiated Measurement Photos





No.: BCTC/RF-EMC-005 Page 24 of 25 / / Edition: A.5



### **STATEMENT**

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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\*\*\*\*\* END \*\*\*\*\*

No.: BCTC/RF-EMC-005 Page 25 of 25 / / / | Edition: A.5