

TEST REPORT

Report No.: BCTC2106404017-1E

Applicant: DongGuan AnJu Electronic Technology Co., Ltd

Product Name: MagSafe Charger

Model/Type Ref.: AW-15W-CZ01

Tested Date: 2021-06-03 to 2021-06-09

Issued Date: 2021-06-10

Shenzhen Bercheng Co., Ltd.



No.: BCTC/RF-EMC-005 Page 1 of 26 / / / Edition: A.3



FCC ID: 2AZ8P-CZ01

Product Name:	MagSafe Charger

Trademark: N/A

Model/Type Ref.: AW-15W-CZ01

Prepared For: DongGuan AnJu Electronic Technology Co., Ltd

No.1 Harmony Road, Shanwu Village, Shijie Town,

Dongguan City, China.

Manufacturer: DongGuan AnJu Electronic Technology Co., Ltd

No.1 Harmony Road, Shanwu Village, Shijie Town,

Dongguan City, China.

Prepared By: Shenzhen BCTC Testing Co., Ltd.

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

Address: Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen,

Guangdong, China

Sample Received Date: 2021-06-01

Sample tested Date: 2021-06-03 to 2021-06-09

Issue Date: 2021-06-10

Report No.: BCTC2106404017-1E

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

Test Results: PASS

Tested by:

Eric Yang/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 26 / / / Edition: A.3



TABLE OF CONTENT

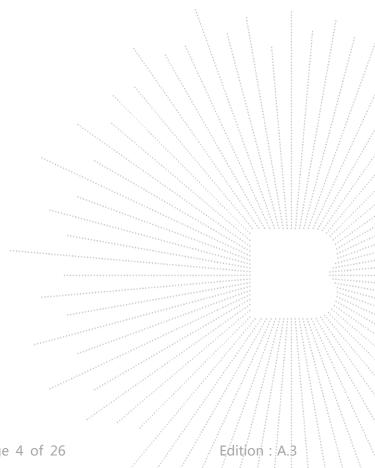
Test I	Report Declaration	Page
1.	VERSION	4
2.	TEST SUMMARY	5
3.	MEASUREMENT UNCERTAINTY	6
4.	PRODUCT INFORMATION AND TEST SETUP	7
4.1	Product Information	7
4.2	Test Setup Configuration	7
4.3	Support Equipment	
4.4	Test Mode	8
5.	TEST FACILITY AND TEST INSTRUMENT USED	9
5.1	Test Facility	9
5.2	Test Instrument Used	9
6.	CONDUCTED EMISSIONS	11
6.1	Block Diagram Of Test Setup	11
6.2	Limit	11
6.3	Test procedure	11
6.4	EUT operating Conditions	12
6.5	Test Result	13
7.	RADIATED EMISSIONS	15
7.1	Block Diagram Of Test Setup	15
7.2	Limit	16
7.3	Test procedure	16
7.4	Test Result	
8.	BANDWIDTH TEST	21
9.	ANTENNA REQUIREMENTS	22
10.	EUT PHOTOGRAPHS	
11.	EUT TEST SETUP PHOTOGRAPHS	24

(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2106404017-1E	2021-06-10	Original	Valid



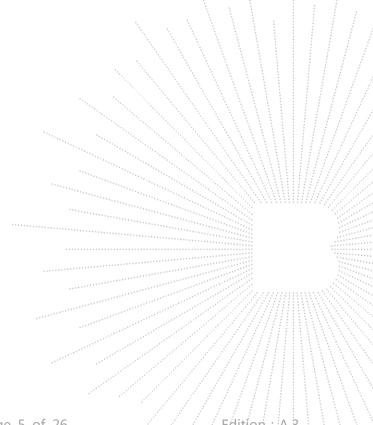
No.: BCTC/RF-EMC-005 Page 4 of 26 / Edition: A.3



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



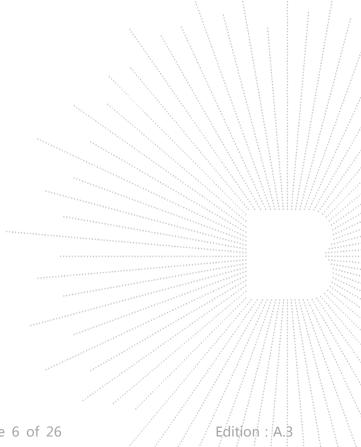
No.: BCTC/RF-EMC-005 Page 5 of 26 / / Edition: A.3



3. MEASUREMENT UNCERTAINTY

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 camber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	Conducted Emission (150kHz-30MHz)	U=3.2dB
5	humidity uncertainty	U=5.3%
6	Temperature uncertainty	U=0.59℃
7	Bandwidth	0.9%



No.: BCTC/RF-EMC-005 Page 6 of 26 / / / Edition: A.3



4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model/Type Ref.: AW-15W-CZ01

Model differences: N/A

Operation Frequency: 115kHz-220kHz

Modulation type: ASK

Antenna installation: Inductive loop coil antenna

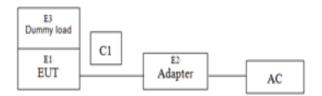
Ratings: DC 5V /9V/12V From adapter

Wireless charging output: 15W Max

4.2 Test Setup Configuration

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

Conducted Emission/Radiated Spurious Emission



4.3 Support Equipment

	port Equipm	O			
No.	Device Type	Brand	Model	Parameters	Note
E-2	Adapter	UGREEN	CD122	Input: AC100-240V~ 50/60Hz, 800mA Max USB Output: 5V 3A, 9V 2A, 12V 1.5A	Auxiliary
E-3	Dummy load	N/A	DL01	N/A	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.

No.: BCTC/RF-EMC-005 Page 7 of 26 / / / Edition: A.3



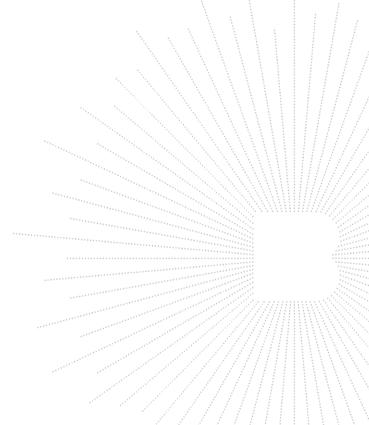
4.4 Test Mode

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.

	Test Modes1	keeping TX+Charging mode(full load) *
DC 5V*	Test Modes2	keeping TX+Charging mode(half load)
	Test Modes3	keeping TX+Charging mode(null load)
	Test Modes1	keeping TX+Charging mode(full load)
DC 9V	Test Modes2	keeping TX+Charging mode(half load)
	Test Modes3	keeping TX+Charging mode(null load)
	Test Modes1	keeping TX+Charging mode(full load)
DC 12V	Test Modes2	keeping TX+Charging mode(half load)
	Test Modes3	keeping TX+Charging mode(null load)

Note:

All test mode were tested and passed, only Conducted Emissions, Radiated Emissions shows (*) is the worst case mode which were recorded in this report.



No.: BCTC/RF-EMC-005 Page 8 of 26 / / / Edition: A.3



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, Tangwei, 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 Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S1509001	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

No.: BCTC/RF-EMC-005 Page 9 of 26 / / / Edition: A.3



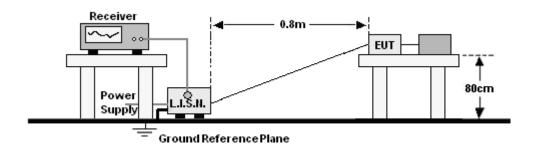
Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9718	9718-309	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163- 942	Jun. 01, 2021	May 31, 2022
Horn Antenna	SCHWARZBEC K	BBHA9120 D	1201	Jun. 02, 2021	Jun. 01, 2022
Horn Antenna (18GHz-40 GHz)	SCHWARZBE CK	BBHA9170	822	May 28, 2021	May 27, 2022
Amplifier (18GHz-40 GHz)	MITEQ	TTA1840-3 5-HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9KHz-30M Hz)	SCHWARZBE CK	FMZB1519 B	014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MH z)	Huber+Suhnar	9kHz-30M Hz	B1702988- 0008	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1G Hz)	Huber+Suhnar	30MHz-1G Hz	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40G Hz)	Huber+Suhnar	1GHz-40G Hz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419B	7	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5 GHz	KEYSIGHT	N9020A	MY491000 60	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40G Hz	Agilent	FSP40	100363	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE		

No.: BCTC/RF-EMC-005 Page 10 of 26 / Edition A.3



6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
FREQUENCT (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

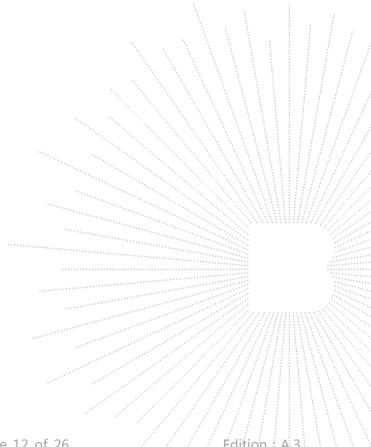
- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with 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.

No.: BCTC/RF-EMC-005 Page 11 of 26 / / Edition: A.3



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.

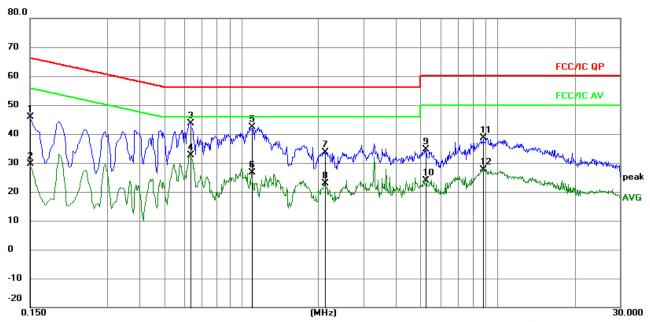


No.: BCTC/RF-EMC-005 Page 12 of 26 // Edition: A.3



Test Result 6.5

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	The Worst mode



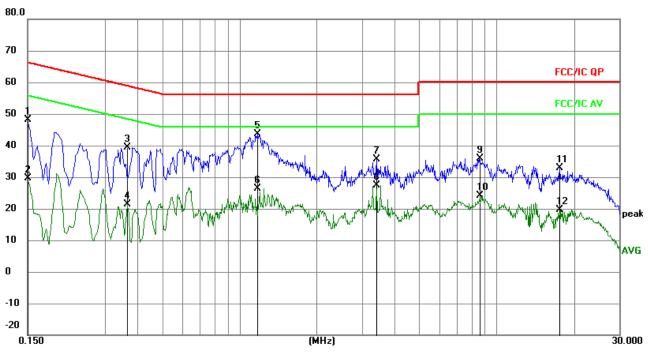
Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

1 0.1500 36.29 9.52 45.81 66.00 -20.19 QP 2 0.1500 20.07 9.52 29.59 56.00 -26.41 AVO 3 * 0.6315 33.73 9.89 43.62 56.00 -12.38 QP 4 0.6315 22.81 9.89 32.70 46.00 -13.30 AVO 5 1.0995 32.74 9.57 42.31 56.00 -13.69 QP 6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVO 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVO 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
2 0.1500 20.07 9.52 29.59 56.00 -26.41 AVG 3 * 0.6315 33.73 9.89 43.62 56.00 -12.38 QP 4 0.6315 22.81 9.89 32.70 46.00 -13.30 AVG 5 1.0995 32.74 9.57 42.31 56.00 -13.69 QP 6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVG 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVG 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP			MHz		dB	dBuV	dBu∀	dB	Detector
3 * 0.6315 33.73 9.89 43.62 56.00 -12.38 QP 4 0.6315 22.81 9.89 32.70 46.00 -13.30 AVO 5 1.0995 32.74 9.57 42.31 56.00 -13.69 QP 6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVO 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVO 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	1		0.1500	36.29	9.52	45.81	66.00	-20.19	QP
4 0.6315 22.81 9.89 32.70 46.00 -13.30 AVO 5 1.0995 32.74 9.57 42.31 56.00 -13.69 QP 6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVO 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVO 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	2		0.1500	20.07	9.52	29.59	56.00	-26.41	AVG
5 1.0995 32.74 9.57 42.31 56.00 -13.69 QP 6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVC 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVC 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	3	*	0.6315	33.73	9.89	43.62	56.00	-12.38	QP
6 1.0995 17.02 9.57 26.59 46.00 -19.41 AVC 7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVC 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	4		0.6315	22.81	9.89	32.70	46.00	-13.30	AVG
7 2.1165 24.02 9.60 33.62 56.00 -22.38 QP 8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVG 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	5		1.0995	32.74	9.57	42.31	56.00	-13.69	QP
8 2.1165 13.17 9.60 22.77 46.00 -23.23 AVG 9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	6		1.0995	17.02	9.57	26.59	46.00	-19.41	AVG
9 5.2485 24.89 9.79 34.68 60.00 -25.32 QP	7		2.1165	24.02	9.60	33.62	56.00	-22.38	QP
	8		2.1165	13.17	9.60	22.77	46.00	-23.23	AVG
10 5.2485 14.21 9.79 24.00 50.00 -26.00 AVC	9		5.2485	24.89	9.79	34.68	60.00	-25.32	QP
11 11 11 11 11 11 11 11 11 11 11 11 11	10		5.2485	14.21	9.79	24.00	50.00	-26.00	AVG
11 8.7765 28.96 9.70 38.66 60.00 -21.34 QP	11		8.7765	28.96	9.70	38.66	60.00	-21.34	QP
12 8.7765 17.89 9.70 27.59 50.00 -22.41 AV	12		8.7765	17.89	9.70	27.59	50.00	-22.41	AVG



Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	The Worst mode



Remark:

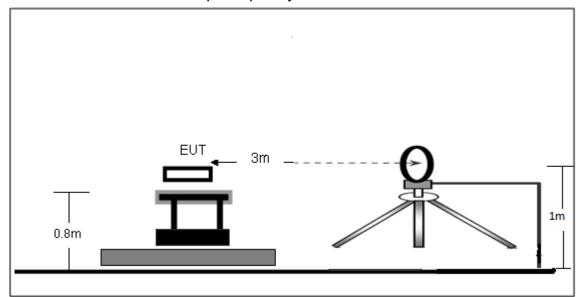
- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	,
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1500	38.50	9.52	48.02	66.00	-17.98	QP
2	0.1500	19.99	9.52	29.51	56.00	-26.49	AVG
3	0.3653	29.76	9.53	39.29	58.61	-19.32	QP
4	0.3653	11.86	9.53	21.39	48.61	-27.22	AVG
5 *	1.1781	33.95	9.57	43.52	56.00	-12.48	QP
6	1.1781	16.79	9.57	26.36	46.00	-19.64	AVG
7	3.4174	26.06	9.69	35.75	56.00	-20.25	QP
8	3.4174	17.74	9.69	27.43	46.00	-18.57	AVG
9	8.5463	26.26	9.70	35.96	60.00	-24.04	QP
10	8.5463	14.37	9.70	24.07	50.00	-25.93	AVG
11	17.5677	23.11	9.75	32.86	60.00	-27.14	QP
12	17.5677	9.78	9.75	19.53	50.00	-30.47	AVG

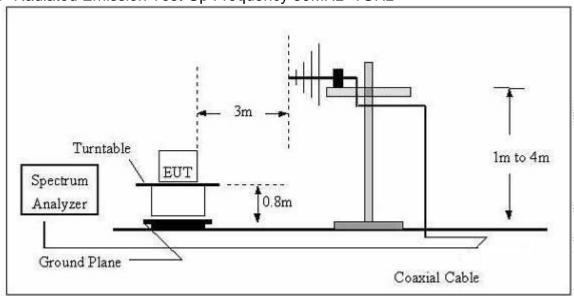


7. RADIATED EMISSIONS

- 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 15 of 26 / / / Edition A.3



7.2 Limit

FCC §15.209; §15.205.

Test Standard	CCC Part15 C Section 15.209 and 15.205							
Test Limit	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			
	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 1000ivinz		74.0	Peak	3			

7.3 Test procedure

Setting
Auto
RBW 200Hz for QP
RBW 9kHz for QP
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.

No.: BCTC/RF-EMC-005 Page 16 of 26 / / Edition: A.3



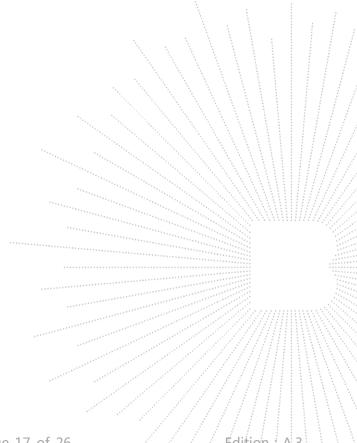
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions 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 17 of 26 // Edition: A.3



7.4 Test Result

9kHz-30MHz

Temperature:	26℃	Relative Humidtity:	24%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	The Worst mode	Polarization:	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(kHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
26.7000	36.82	20.15	56.97	139.07	-82.10	PK
26.7000	32.76	20.15	52.91	119.07	-66.16	AV
69.9000	49.42	20.33	69.75	130.71	-60.96	PK
69.9000	44.56	20.33	64.89	110.71	-45.82	AV
125.8000	58.33	20.55	78.88	125.61	-46.73	PK
125.8000	53.64	20.55	74.19	105.61	-31.42	AV
646.6000	31.26	20.64	51.90	71.39	-19.49	QP
968.4000	34.75	21.26	56.01	67.88	-11.87	QP
1297.8600	25.54	22.32	47.86	65.34	-17.48	QP

Note:

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

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

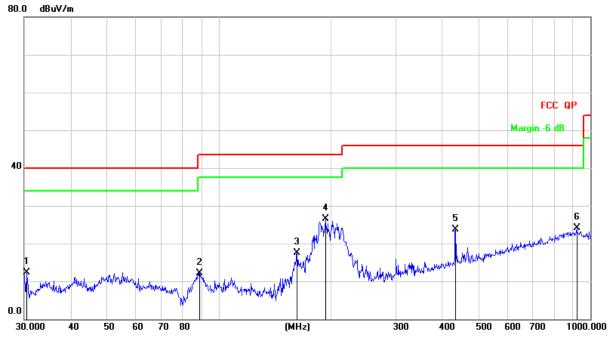
Margin = Emission Level- Limit.

No.: BCTC/RF-EMC-005 Page 18 of 26 // Edition A.3



Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidtity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	The Worst mode	Polarization :	Horizontal



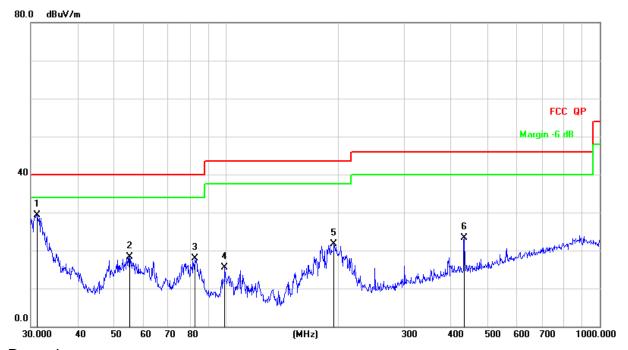
Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		30.4238	28.36	-16.06	12.30	40.00	-27.70	QP
2		88.9639	29.79	-17.70	12.09	43.50	-31.41	QP
3		162.6106	35.40	-17.84	17.56	43.50	-25.94	QP
4	*	193.7728	42.10	-15.69	26.41	43.50	-17.09	QP
5		434.0651	32.59	-8.96	23.63	46.00	-22.37	QP
6		919.2866	24.32	-0.22	24.10	46.00	-21.90	QP



Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz
Test Mode:	The Worst mode	Polarization :	Vertical



Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	31.1798	45.31	-15.97	29.34	40.00	-10.66	QP
2		55.2207	32.78	-14.38	18.40	40.00	-21.60	QP
3		82.6482	36.89	-18.98	17.91	40.00	-22.09	QP
4		99.1797	31.24	-15.64	15.60	43.50	-27.90	QP
5		194.4534	37.43	-15.64	21.79	43.50	-21.71	QP
6	4	434.0651	32.34	-8.96	23.38	46.00	-22.62	QP



Report No.: BCTC2106404017-1E

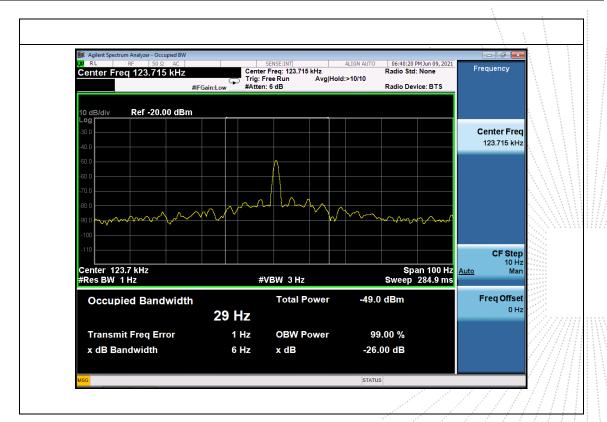
8. BANDWIDTH TEST

- 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.

TEST SETUP

EUT SPECTRUM ANALYZER

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa		





9. ANTENNA REQUIREMENTS

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. The antenna used for this product is Inductive loop coil antenna.

No.: BCTC/RF-EMC-005 Page 22 of 26 / / Edition: A.3



10. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2

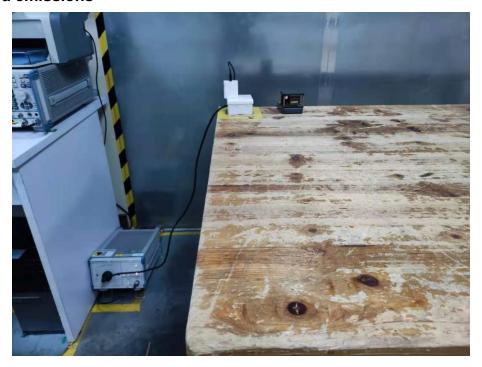


No.: BCTC/RF-EMC-005 Page 23 of 26 / / Edition A.3

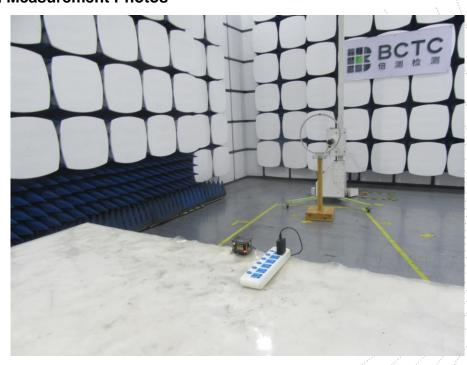


11. EUT TEST SETUP PHOTOGRAPHS

Conducted emissions



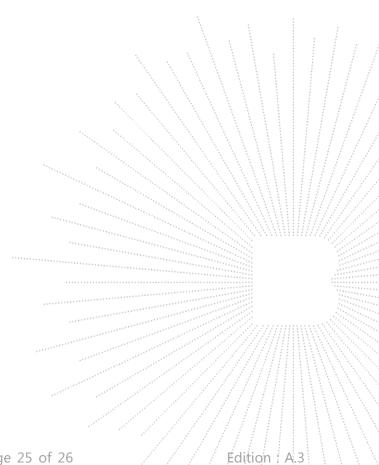
Radiated Measurement Photos



No.: BCTC/RF-EMC-005 Page 24 of 26 / Edition A.3







No.: BCTC/RF-EMC-005 Page 25 of 26 / Edition A3



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 stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to 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 26 of 26 / / / Edition : A.3