



FCC TEST REPORT

FCC ID: 2AF5SKP-TWT02

Product Name:	milestone dual
Trademark:	KUPIIN
Model Number:	KP-TWT02
Prepared For :	Shenzhen Billion-digital Co.,LTD
Address :	R909 Jiaxiye Plaza,Minzhi Rd,Longhua new District,Shenzhen,China
Prepared By :	Shenzhen BCTC Technology Co., Ltd.
Address :	A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China
Test Date:	Mar. 23 - Mar. 30, 2016
Date of Report :	Mar. 30, 2016
Report No.:	BCTC-160302154E



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TEST REPORT DECLARATION


Applicant : Shenzhen Billion-digital Co.,LTD
Address : R909 Jiaxyi Plaza,Minzhi Rd,Longhua new District,Shenzhen,China
EUT Description : **milestone dual**
Model Number : **KP-TWT02**


Test Standards:


FCC Part 15 C: 2015

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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Testing Engineer : 
(Eric Yang)

Technical Manager : 
(Sophia Lee)

Authorized Signatory : 
(Carson. Zhang)





1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BCTC approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BCTC in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BCTC therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BCTC, unless the applicant has authorized BCTC in writing to do so.

1.2. Measurement Uncertainty

Available upon request.

1.3. Test Facility

Site Description	
Name of Firm	: Shenzhen BCTC Technology Co., Ltd.
Site Location	: A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China

1.4. Test Uncertainty

Conducted Emission Uncertainty	=	$\pm 2.66\text{dB}$
Radiated Emission Uncertainty	=	$\pm 4.15\text{dB}$



2. PRODUCT DESCRIPTION

2.1.EUT Description

Description : **milestone dual**

Applicant : **Shenzhen Billion-digital Co.,LTD**
R909 Jiaxiye Plaza,Minzhi Rd,Longhua new District,Shenzhen,China

Manufacturer : **Shenzhen Billion-digital Co.,LTD**
R909 Jiaxiye Plaza,Minzhi Rd,Longhua new District,Shenzhen,China

Model Number : KP-TWT02

Serial Model : N/A

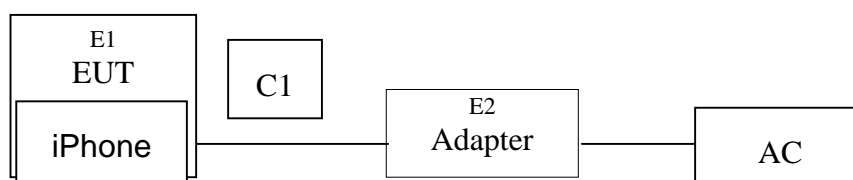
Work Frequency : 100-200KHz

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	0.100	51	0.151
01	0.101	52	0.152
03	0.102	53	0.153
~			
48	0.148	98	0.198
49	0.149	99	0.199
50	0.150	100	0.200

2.2.Block Diagram of EUT Configuration



2.3.Test Conditions

Temperature: 23~25℃

Relative Humidity: 55~63 %



2.4. Description Of Support Units (Conducted Mode)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	milestone dual	N/A	KP-TWT02	N/A	EUT
E-2	Adapter	N/A	DSA-0151F-12A	N/A	AC100-240V~50/60Hz 0.4A Output: 5V --- 3A
	Mobile phone	N/A	iPhone 5	N/A	
	Battery model	N/A	AE4026	N/A	electric quantity:60%

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	Mini USB cable unshielded

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.5 TEST Results Summary

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: “N/A” means “Not applicable.”

DESCRIPTION OF TEST MODES

For Conducted & Radiated Emission	
Final Test Mode	Description
Mode 1	TX Low Channel 100kHz
Mode 2	TX Middle channel 150kHz
Mode 3	TX High channel 200kHz
Mode 4	Transfer mode(Battery's electric quantity reference item2.4)



3. TEST EQUIPMENT USED

3.1. For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Aug. 25, 15	1 Year
2	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Aug. 25, 15	1 Year
3	L.I.S.N.	Rohde & Schwarz	ESH2-Z5	834549/005	Aug. 25, 15	1 Year
4	Conical	Emtek	N/A	N/A	N/A	N/A
5	Voltage Probe	Schwarzbeck	TK9416	N/A	Aug. 25, 15	1 Year
6	Coaxial Switch	Anritsu	MP59B	6100214550	Aug. 25, 15	1 Year

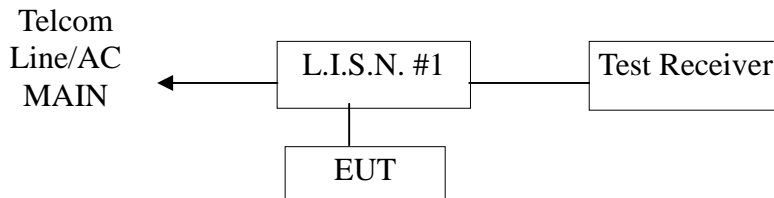
3.2. For Radiated Emission Measurement

Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	Aug. 25, 15	1 Year
2	Test Receiver	Rohde&Schwarz	ESHS30	828985/018	Aug. 25, 15	1 Year
3	Bilog Antenna	Schwarzbeck	VULB9163	142	Aug. 25, 15	1 Year
4	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Aug. 25, 15	1 Year
5	Cable	Schwarzbeck	AK9513	ACRX1	Aug. 25, 15	1 Year
6	Cable	Rosenberger	N/A	FR2RX2	Aug. 25, 15	1 Year
7	Cable	Schwarzbeck	AK9513	CRRX2	Aug. 25, 15	1 Year
8	Cable	Schwarzbeck	AK9513	CRRX2	Aug. 25, 15	1 Year
9	Single Phase Power Line Filter	MPE	23332C	N/A	Aug. 25, 15	1 Year
10	Single Phase Power Line Filter	MPE	23333C	N/A	Aug. 25, 15	1 Year
11	Signal Generator	HP	864A	3625U00573	Aug. 25, 15	1 Year
12	Loop Antenna	ARA	PLA-1030/B	1029	Jun. 08, 15	1 Year

4. CONDUCTED EMISSION TEST

4.1. Block Diagram of Test Setup



(EUT: **milestone dual**)

4.2. Test Standard

FCC Part 15 C: 2015

4.3. Conducted Emission Limit (Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

4.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet Part 15 B requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

4.4.1. **milestone dual**

Model Number: **KP-TWT02**

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulators as shown in Section 5.1.

4.5.2. Turn on the power of all equipments.

4.5.3. Let the EUT work in test modes (EUT Working) and test it.



4.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

4.7. Test Result

PASS

Please refer to the following pages.

We pretest Model 1 and Model 2, the worst voltage was Model 1 and the data recording in the report.

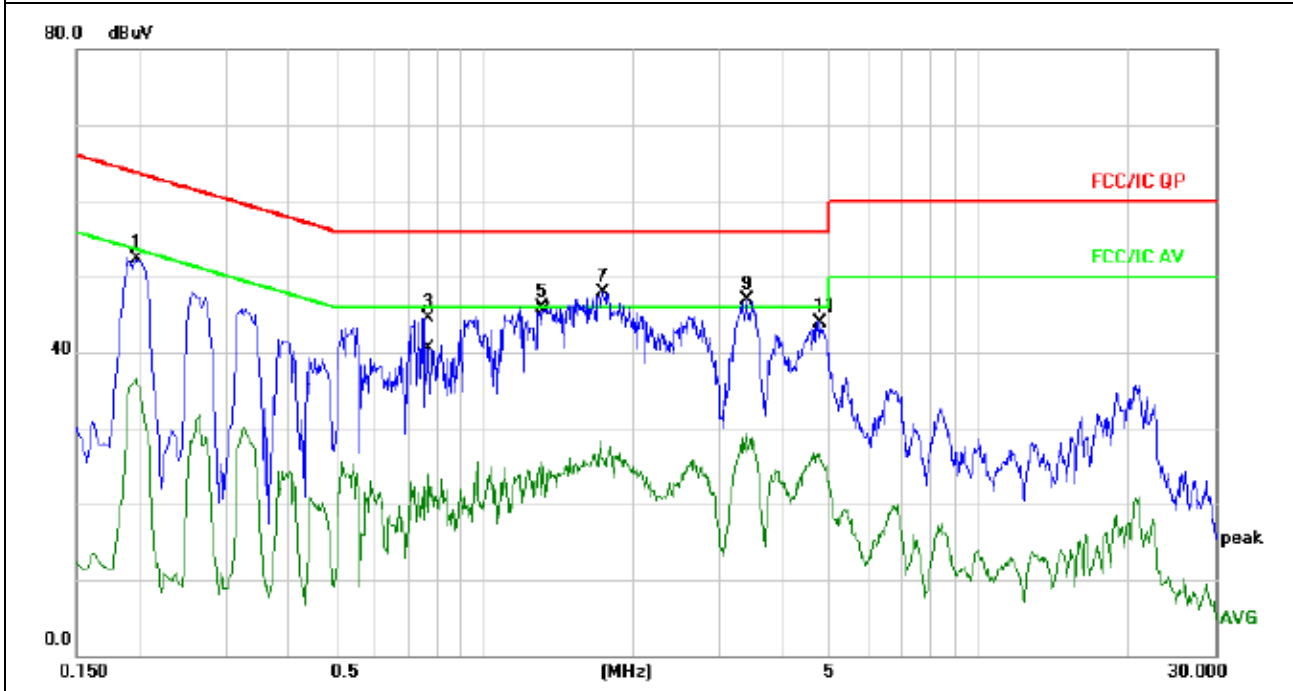


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1980	42.33	10.06	52.39	63.69	-11.30	QP
0.1980	26.52	10.06	36.58	53.69	-17.11	AVG
0.7740	34.43	10.14	44.57	56.00	-11.43	QP
0.7740	13.72	10.14	23.86	46.00	-22.14	AVG
1.3099	35.74	10.17	45.91	56.00	-10.09	QP
1.3099	15.29	10.17	25.46	46.00	-20.54	AVG
1.7419	37.76	10.18	47.94	56.00	-8.06	QP
1.7419	18.10	10.18	28.28	46.00	-17.72	AVG
3.3860	36.76	10.18	46.94	56.00	-9.06	QP
3.3860	19.14	10.18	29.32	46.00	-16.68	AVG
4.7778	33.78	10.15	43.93	56.00	-12.07	QP
4.7778	16.55	10.15	26.70	46.00	-19.30	AVG

Remark:

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



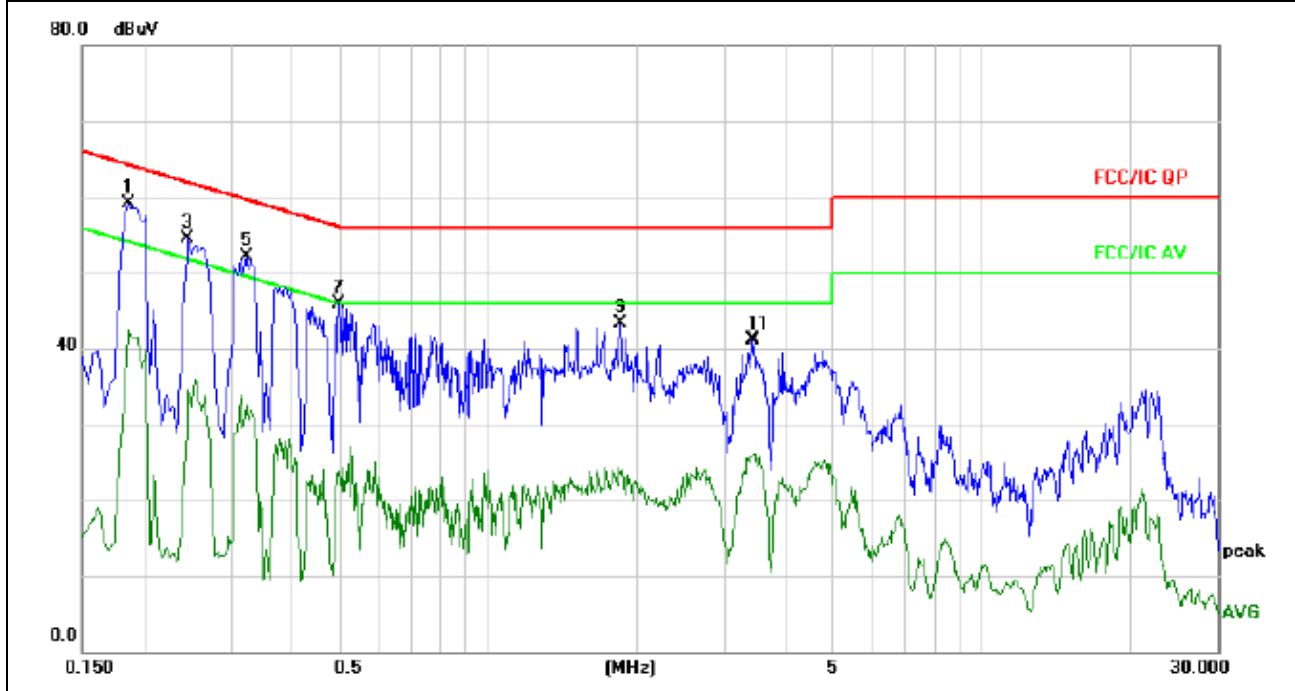


EUT:	milestone dual	Model Name. :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1864	49.00	10.06	59.06	64.19	-5.13	QP
0.1864	32.38	10.06	42.44	54.19	-11.75	AVG
0.2460	44.45	10.08	54.53	61.89	-7.36	QP
0.2460	25.88	10.08	35.96	51.89	-15.93	AVG
0.3220	41.92	10.10	52.02	59.65	-7.63	QP
0.3220	23.79	10.10	33.89	49.65	-15.76	AVG
0.4980	35.76	10.11	45.87	56.03	-10.16	QP
0.4980	16.98	10.11	27.09	46.03	-18.94	AVG
1.8540	33.20	10.18	43.38	56.00	-12.62	QP
1.8540	14.03	10.18	24.21	46.00	-21.79	AVG
3.4500	30.86	10.18	41.04	56.00	-14.96	QP
3.4500	15.93	10.18	26.11	46.00	-19.89	AVG

Remark:

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



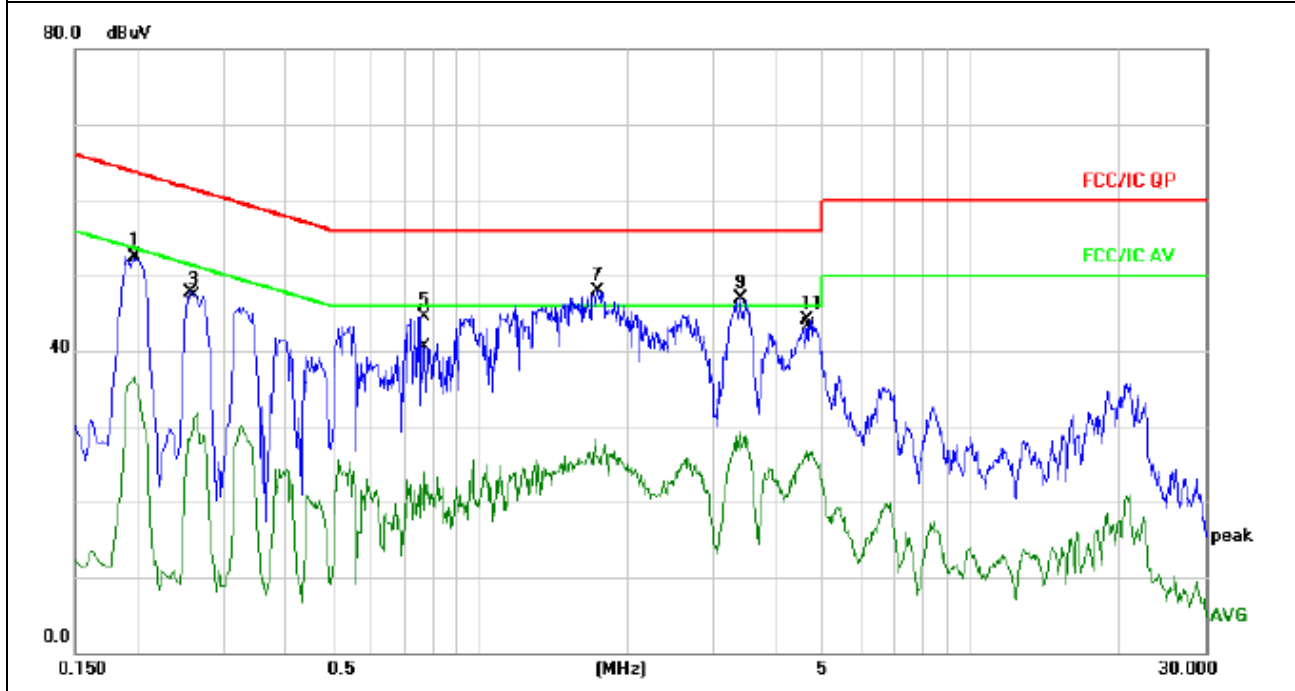


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1980	42.47	10.06	52.53	63.69	-11.16	QP
0.1980	26.52	10.06	36.58	53.69	-17.11	AVG
0.2620	37.30	10.08	47.38	61.36	-13.98	QP
0.2620	21.76	10.08	31.84	51.36	-19.52	AVG
0.7740	34.43	10.14	44.57	56.00	-11.43	QP
0.7740	13.72	10.14	23.86	46.00	-22.14	AVG
1.7419	37.76	10.18	47.94	56.00	-8.06	QP
1.7419	18.10	10.18	28.28	46.00	-17.72	AVG
3.3860	36.76	10.18	46.94	56.00	-9.06	QP
3.3860	19.14	10.18	29.32	46.00	-16.68	AVG
4.6459	33.94	10.15	44.09	56.00	-11.91	QP
4.6459	16.55	10.15	26.70	46.00	-19.30	AVG

Remark:

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



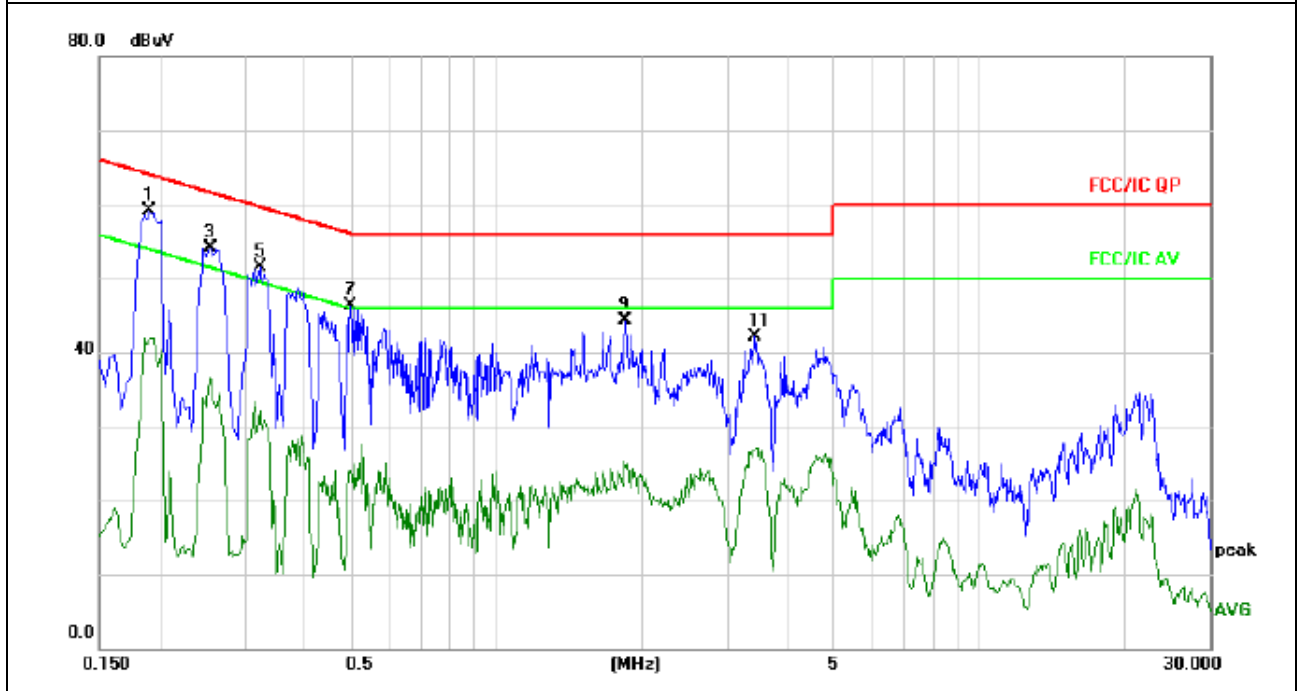


EUT:	milestone dual	Model Name. :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1904	48.96	10.06	59.02	64.01	-4.99	QP
0.1904	31.90	10.06	41.96	54.01	-12.05	AVG
0.2540	43.95	10.08	54.03	61.62	-7.59	QP
0.2540	26.38	10.08	36.46	51.62	-15.16	AVG
0.3220	41.42	10.10	51.52	59.65	-8.13	QP
0.3220	23.29	10.10	33.39	49.65	-16.26	AVG
0.4979	36.26	10.11	46.37	56.03	-9.66	QP
0.4979	14.75	10.11	24.86	46.03	-21.17	AVG
1.8460	34.20	10.18	44.38	56.00	-11.62	QP
1.8460	15.03	10.18	25.21	46.00	-20.79	AVG
3.4220	31.86	10.18	42.04	56.00	-13.96	QP
3.4220	16.93	10.18	27.11	46.00	-18.89	AVG

Remark:

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



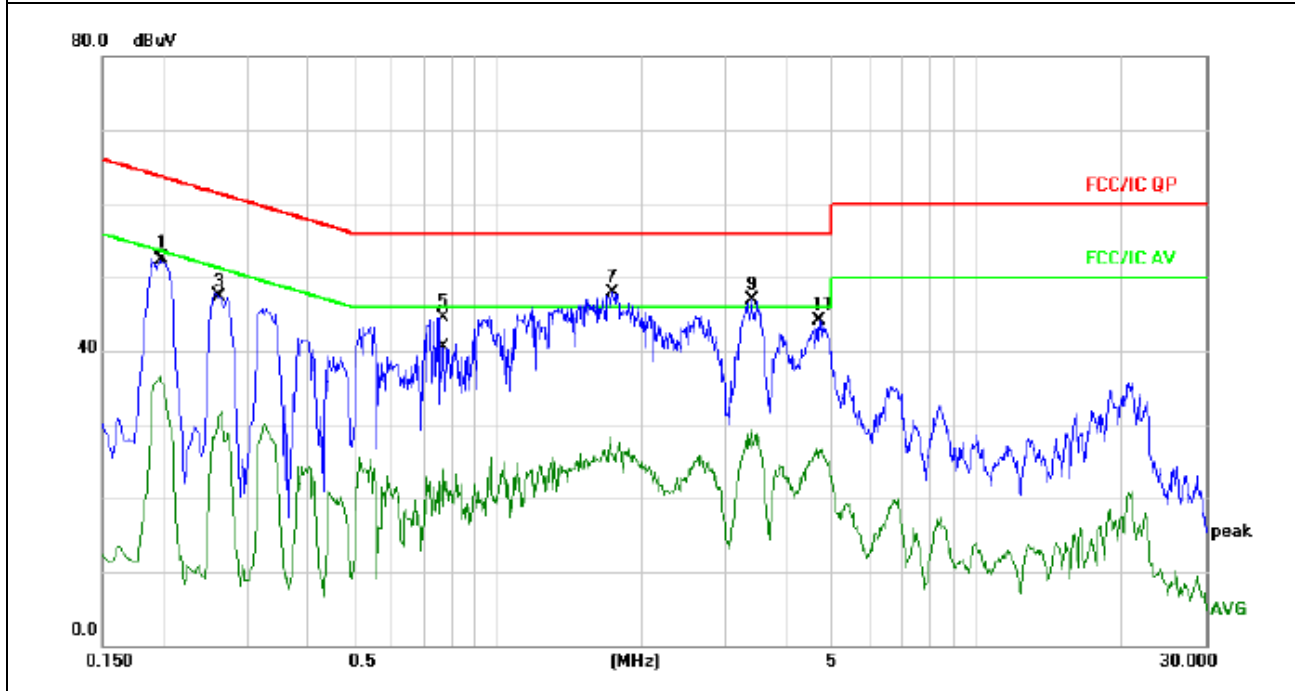


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1987	42.47	10.06	52.53	63.66	-11.13	QP
0.1987	26.52	10.06	36.58	53.66	-17.08	AVG
0.2636	37.30	10.08	47.38	61.31	-13.93	QP
0.2636	21.76	10.08	31.84	51.31	-19.47	AVG
0.7754	34.43	10.14	44.57	56.00	-11.43	QP
0.7754	13.72	10.14	23.86	46.00	-22.14	AVG
1.7438	37.76	10.18	47.94	56.00	-8.06	QP
1.7438	18.10	10.18	28.28	46.00	-17.72	AVG
3.3869	36.76	10.18	46.94	56.00	-9.06	QP
3.3869	19.14	10.18	29.32	46.00	-16.68	AVG
4.6738	33.94	10.15	44.09	56.00	-11.91	QP
4.6738	16.55	10.15	26.70	46.00	-19.30	AVG

Remark:

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



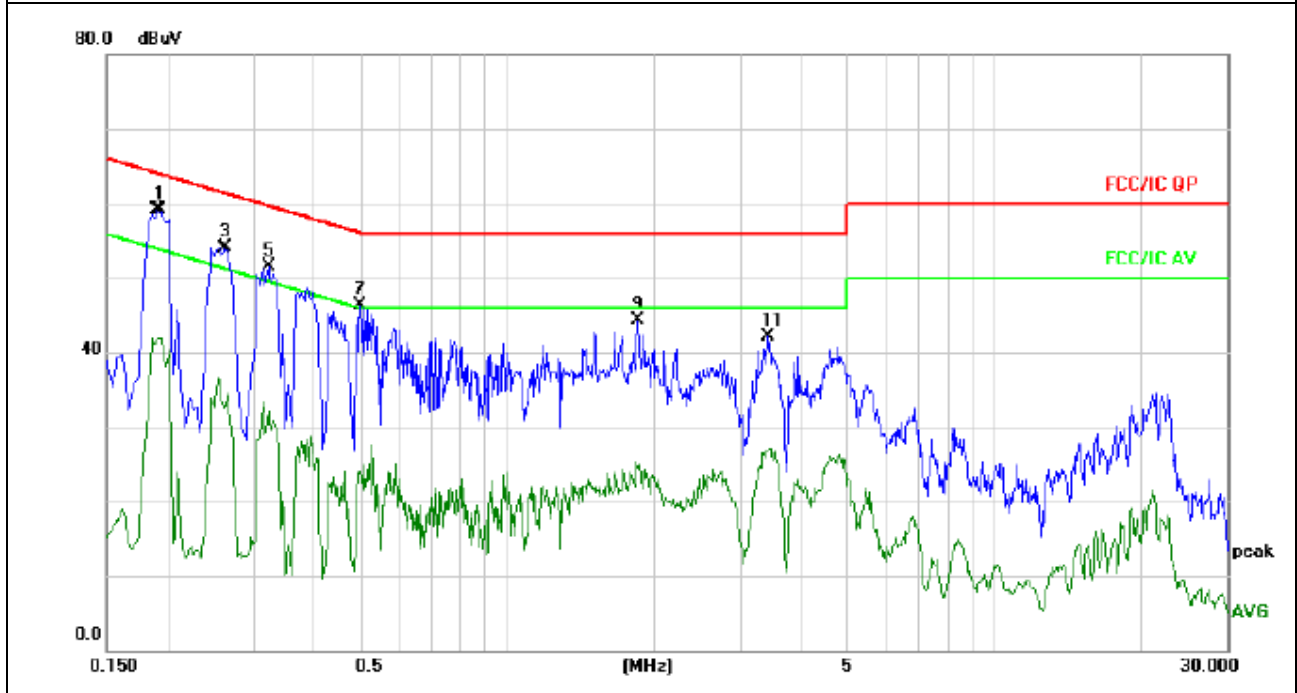


EUT:	milestone dual	Model Name. :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 2

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1925	48.96	10.06	59.02	63.92	-4.90	QP
0.1925	31.90	10.06	41.96	53.92	-11.96	AVG
0.2640	43.95	10.08	54.03	61.30	-7.27	QP
0.2640	26.38	10.08	36.46	51.30	-14.84	AVG
0.3245	41.42	10.10	51.52	59.59	-8.07	QP
0.3245	23.29	10.10	33.39	49.59	-16.20	AVG
0.4982	36.26	10.11	46.37	56.03	-9.66	QP
0.4982	14.75	10.11	24.86	46.03	-21.17	AVG
1.8478	34.20	10.18	44.38	56.00	-11.62	QP
1.8478	15.03	10.18	25.21	46.00	-20.79	AVG
3.4356	31.86	10.18	42.04	56.00	-13.96	QP
3.4356	16.93	10.18	27.11	46.00	-18.89	AVG

Remark:

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



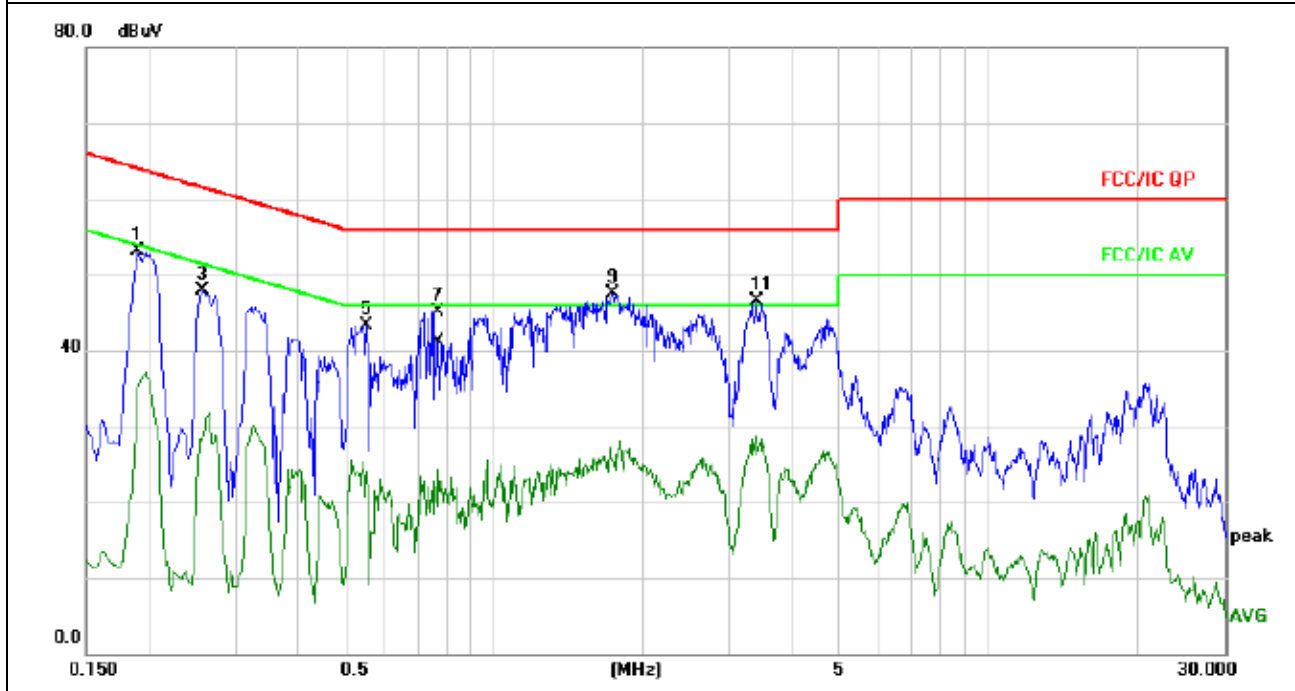


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 3

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1900	42.97	10.06	53.03	64.03	-11.00	QP
0.1900	27.02	10.06	37.08	54.03	-16.95	AVG
0.2580	37.75	10.08	47.83	61.49	-13.66	QP
0.2580	21.76	10.08	31.84	51.49	-19.65	AVG
0.5540	33.21	10.12	43.33	56.00	-12.67	QP
0.5540	15.42	10.12	25.54	46.00	-20.46	AVG
0.7740	34.93	10.14	45.07	56.00	-10.93	QP
0.7740	14.22	10.14	24.36	46.00	-21.64	AVG
1.7419	37.26	10.18	47.44	56.00	-8.56	QP
1.7419	17.84	10.18	28.02	46.00	-17.98	AVG
3.3860	36.26	10.18	46.44	56.00	-9.56	QP
3.3860	18.64	10.18	28.82	46.00	-17.18	AVG

Remark:

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



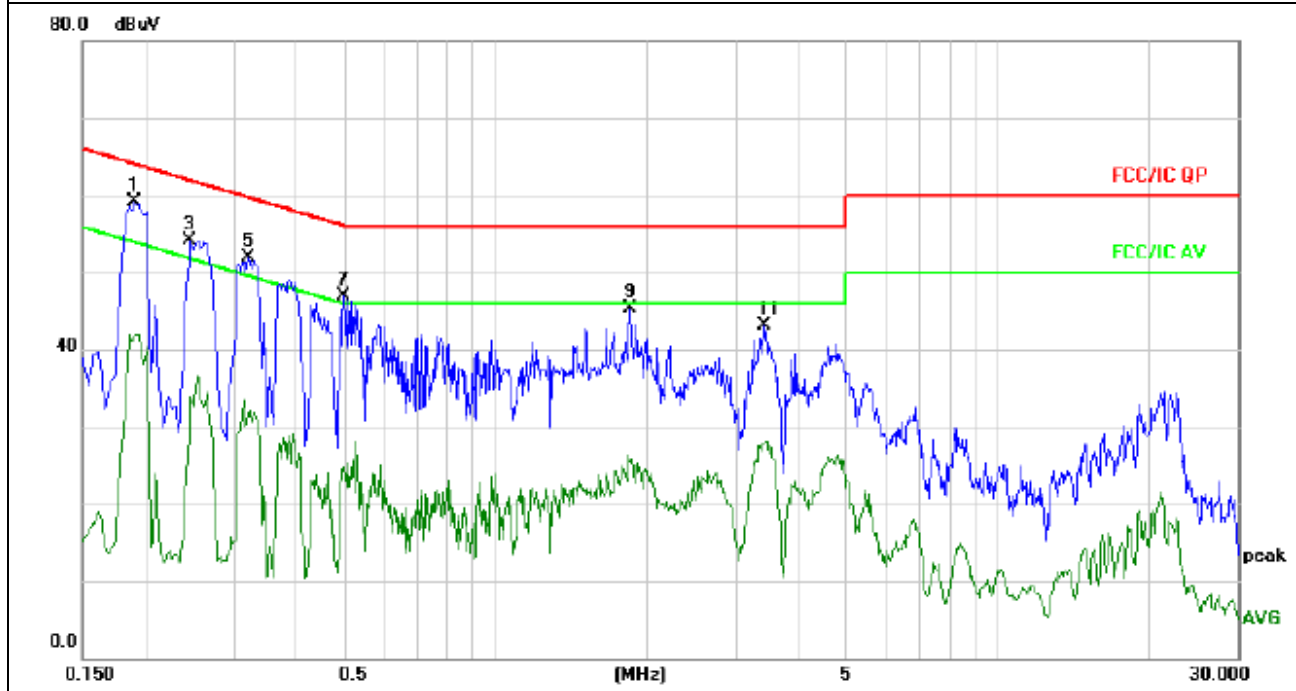


EUT:	milestone dual	Model Name. :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 3

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.1904	48.96	10.06	59.02	64.01	-4.99	QP
0.1904	31.90	10.06	41.96	54.01	-12.05	AVG
0.2459	43.95	10.08	54.03	61.89	-7.86	QP
0.2459	26.38	10.08	36.46	51.89	-15.43	AVG
0.3200	41.79	10.10	51.89	59.70	-7.81	QP
0.3200	23.32	10.10	33.42	49.70	-16.28	AVG
0.4979	36.76	10.11	46.87	56.03	-9.16	QP
0.4979	17.98	10.11	28.09	46.03	-17.94	AVG
1.8540	35.20	10.18	45.38	56.00	-10.62	QP
1.8540	16.03	10.18	26.21	46.00	-19.79	AVG
3.4220	32.86	10.18	43.04	56.00	-12.96	QP
3.4220	17.93	10.18	28.11	46.00	-17.89	AVG

Remark:

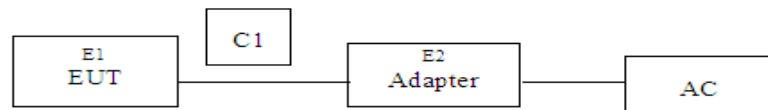
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

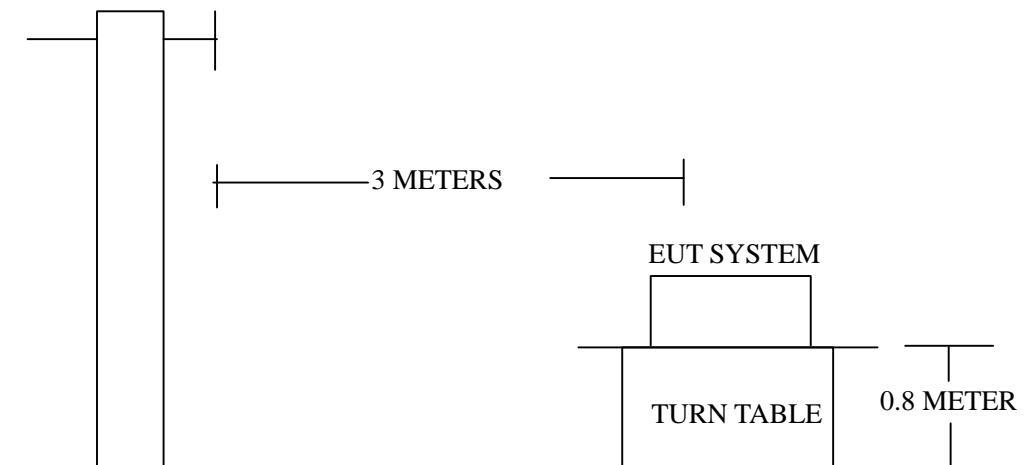
5.1.1. Block Diagram of connection between the EUT and the simulators



(EUT: milestone dual)

5.1.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



GROUND PLANE

5.2. Test Standard

FCC Part 15 C: 2015

5.3. Radiated Emission Limit(Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (microvolt/meter)
0.009~0.490	300	2400/F(kHz)
0.490~1.705	30	24000/F(kHz)
1.705~30	30	30.0
30 ~ 88	3	100.0
88 ~ 216	3	150.0
216 ~ 960	3	200.0
960 ~ 1000	3	500.0



- Note:
- (1) The smaller limit shall apply at the edge between two frequency bands.
 - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or system.
 - (3) According to §15.31 (f)(2),
 - 300 m Result(dBuV/m) = 3 m Result(dBuV/m) – 40log(300/3) (dBuV/m)
 - 30 m Result(dBuV/m) = 3 m Result(dBuV/m) – 40log(30/3) (dBuV/m)
 - (4) According to field strength table of general requirement in §15.209 (a), field strength limits below 1.705 MHz were calculated as below.
 - 9 kHz to 490 kHz : 20log(2 400 / F (kHz)) at 300 m (dBuV/m)
 - 490 kHz to 1 705 kHz : 20log(24 000 / F (kHz)) at 30 m (dBuV/m)
 - 1.705 MHz to 30 MHz : 30 at 30 m (dBuV/m)
 - (5) According to §15.209 (d), the measurements were tested by using Quasi peak detector except for the frequency bands 9 – 90 kHz, 110 – 490 kHz and above 1 GHz in these three bands on measurements employing an average detector.

5.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

Operating Condition of EUT

5.4.1.Setup the EUT as shown on Section 6.1

5.4.2.Turn on the power of all equipments.

5.4.3.Let the EUT work in test mode(communication mode).

5.5.Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

The bandwidth setting on the test receiver is 120 KHz.

The EUT is tested in Anechoic Chamber. The frequency range from 30MHz to 1000MHz is checked. All the test results are listed in Section 6.6.



5.6.Test Result

PASS

Please refer to the following pages.

9KHz-30MHz

EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 4		

Freq.	Reading	Correct Factor	Result	Limit	Margin	Detector	State
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m) at 3 m	(dB)		P/F
0.110	82.94	18.63	101.57	126.77	-25.20	PK	PASS
0.110	76.98	18.63	95.61	106.77	-11.16	AV	PASS
0.155	85.68	18.63	104.31	123.79	-19.48	PK	PASS
0.155	69.58	18.63	88.21	103.79	-15.58	AV	PASS
0.205	84.76	18.66	103.42	121.37	-17.95	PK	PASS
0.205	65.86	18.66	84.52	101.37	-16.85	AV	PASS
0.220	64.06	18.66	82.72	120.76	-38.04	PK	PASS
0.220	61.57	18.66	80.23	100.76	-20.53	AV	PASS
0.330	64.28	18.74	83.02	117.78	-34.76	PK	PASS
0.330	60.36	18.74	79.10	97.78	-18.68	AV	PASS
0.410	63.94	18.77	82.71	115.35	-32.64	PK	PASS
0.410	60.16	18.77	78.93	95.35	-16.42	AV	PASS
1.983	17.95	19.38	37.33	60.00	-22.67	QP	PASS
1.965	17.33	19.38	36.71	60.00	-23.29	QP	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



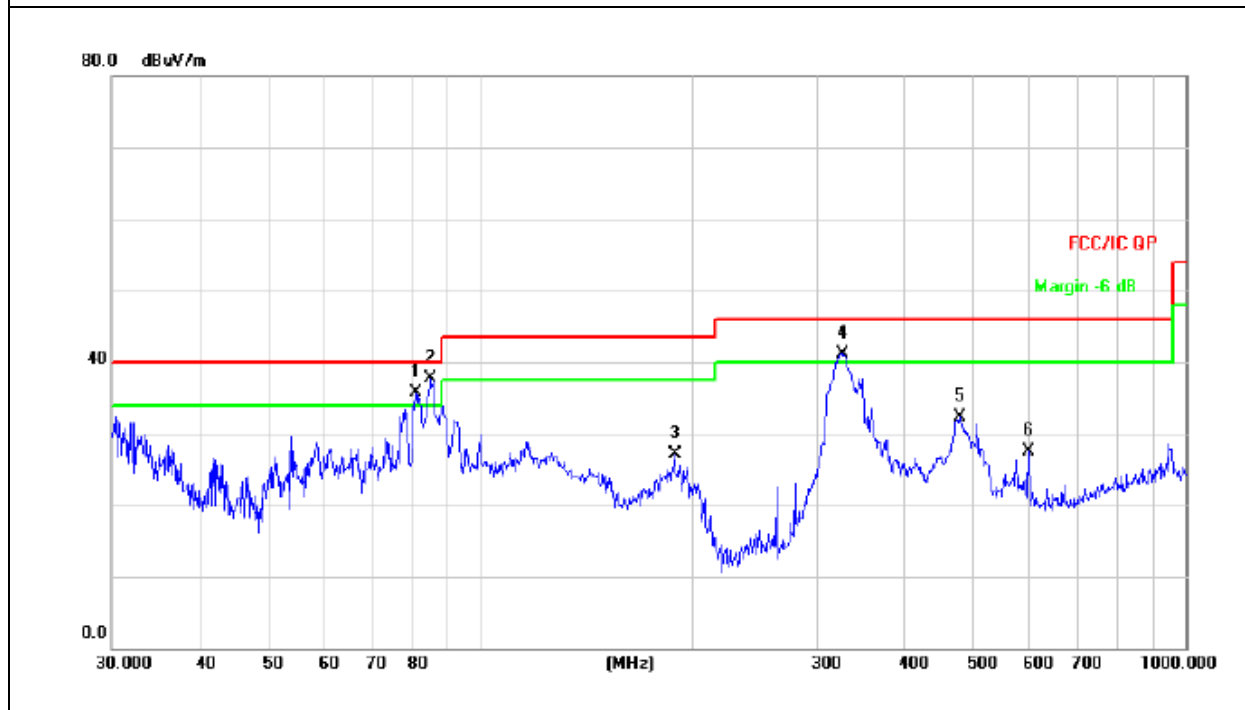
30MHz-1GHz

EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 4		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
80.9274	53.76	-18.10	35.66	40.00	-4.34	QP
84.9993	55.78	-18.14	37.64	40.00	-2.36	QP
188.4124	42.51	-15.37	27.14	43.50	-16.36	QP
325.5957	53.07	-11.92	41.15	46.00	-4.85	QP
478.8455	40.83	-8.44	32.39	46.00	-13.61	QP
599.3212	33.13	-5.69	27.44	46.00	-18.56	QP

Remark:

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



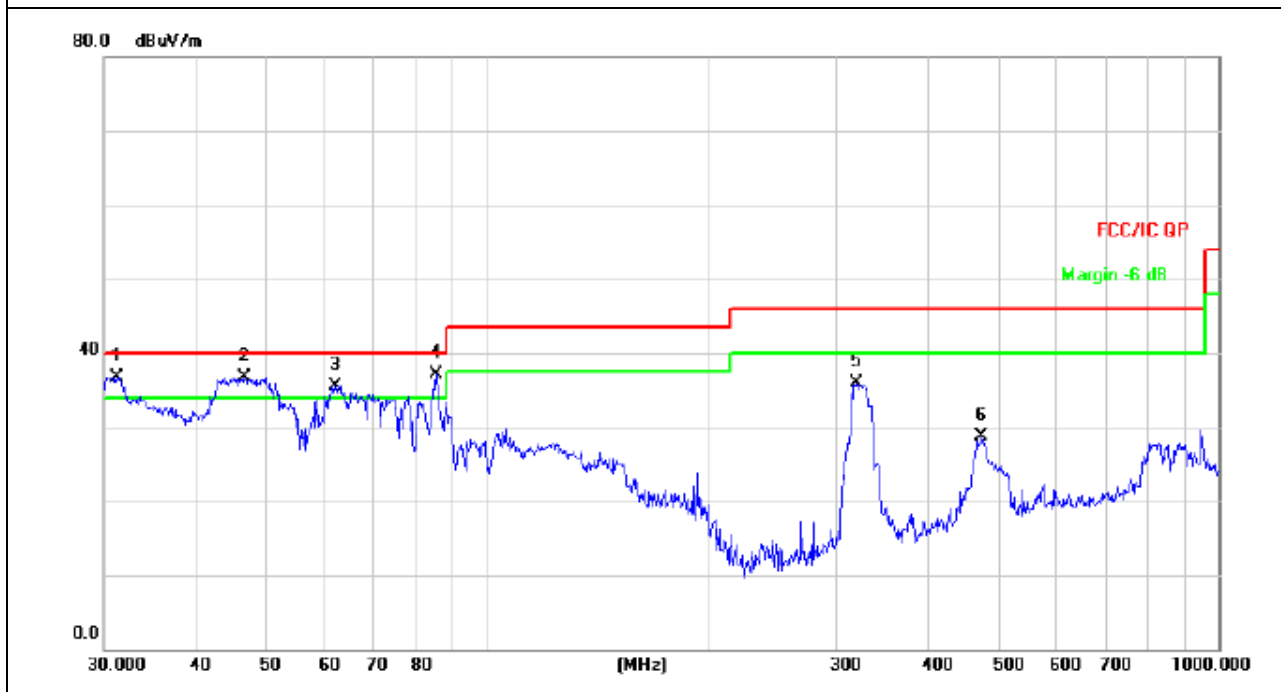


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 4		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.1798	44.90	-8.19	36.71	40.00	-3.29	QP
46.6664	46.35	-9.74	36.61	40.00	-3.39	QP
61.9951	47.49	-11.92	35.57	40.00	-4.43	QP
85.2980	55.29	-18.10	37.19	40.00	-2.81	QP
319.9370	47.87	-12.06	35.81	46.00	-10.19	QP
473.8346	37.22	-8.56	28.66	46.00	-17.34	QP

Remark:

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



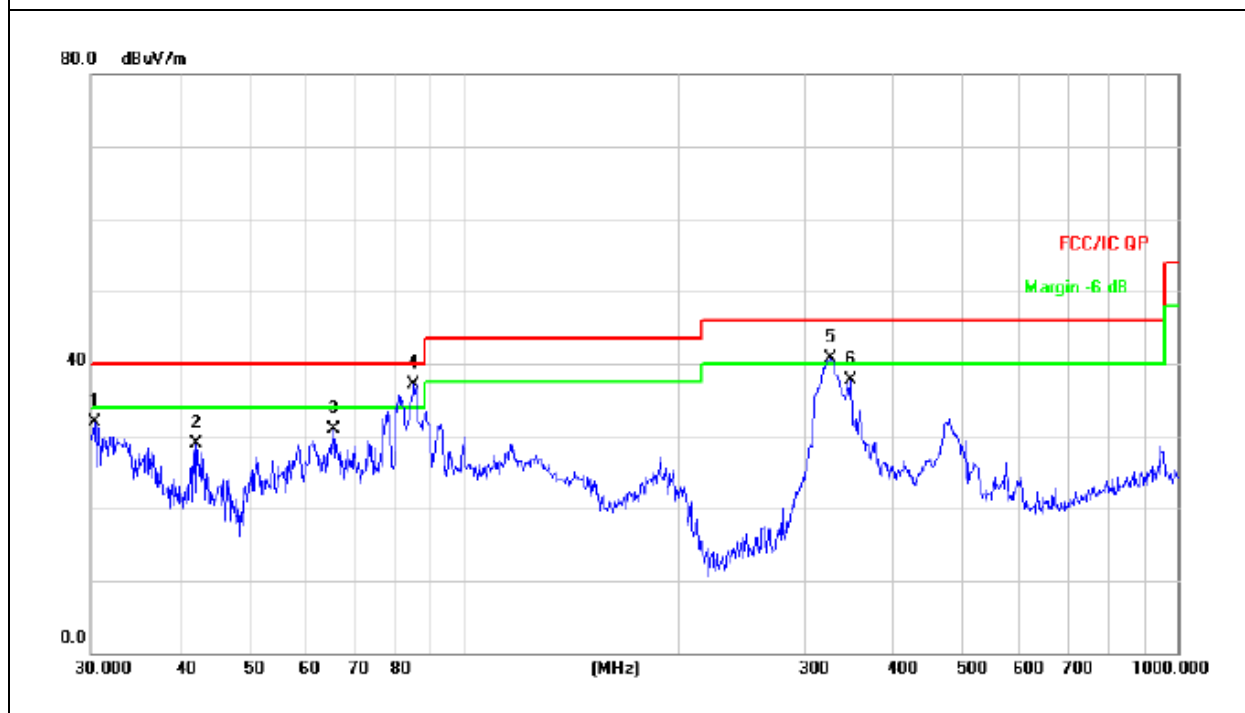


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 1		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.3170	39.94	-8.06	31.88	40.00	-8.12	QP
42.1542	37.98	-9.12	28.86	40.00	-11.14	QP
65.5725	43.61	-12.75	30.86	40.00	-9.14	QP
84.9993	55.28	-18.14	37.14	40.00	-2.86	QP
325.5957	52.57	-11.92	40.65	46.00	-5.35	QP
348.0274	49.15	-11.42	37.73	46.00	-8.27	QP

Remark:

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





EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 1		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.5091	45.34	-8.22	37.12	40.00	-2.88	QP
43.6584	46.93	-9.30	37.63	40.00	-2.37	QP
62.6507	48.50	-12.05	36.45	40.00	-3.55	QP
85.2980	54.79	-18.10	36.69	40.00	-3.31	QP
319.9370	48.87	-12.06	36.81	46.00	-9.19	QP
473.8346	37.22	-8.56	28.66	46.00	-17.34	QP

Remark:

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



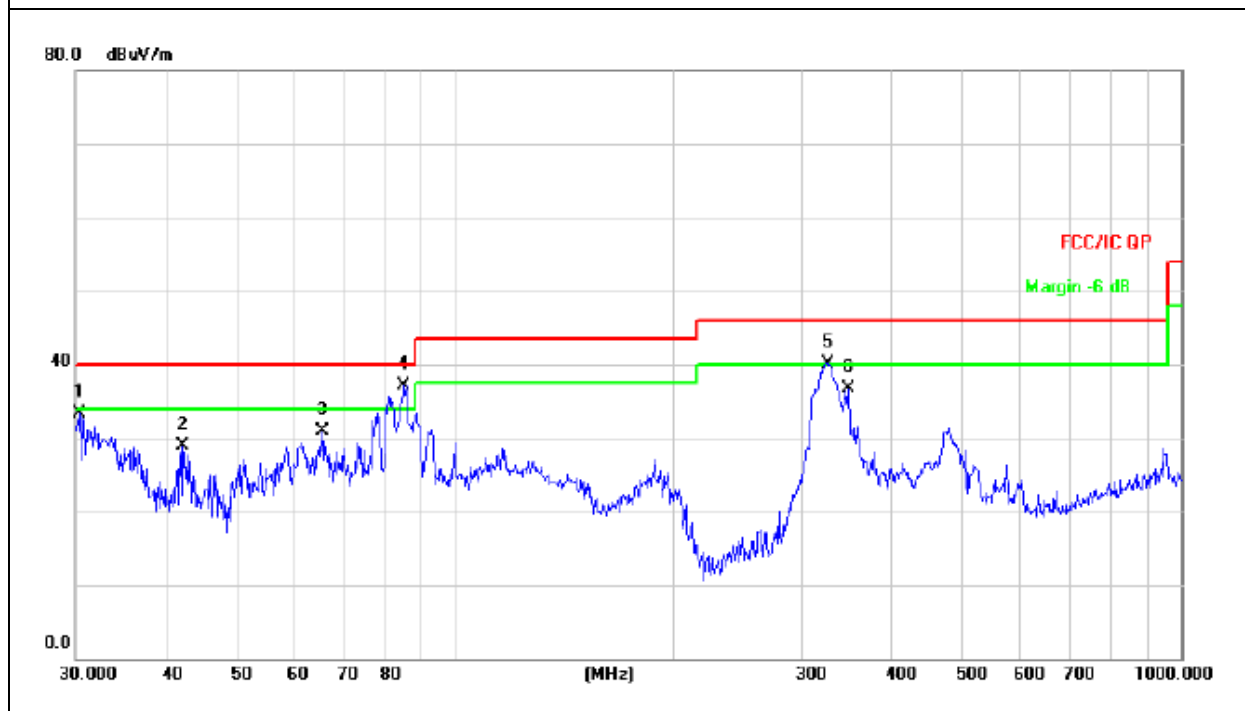


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 2		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.3170	41.44	-8.06	33.38	40.00	-6.62	QP
42.1542	37.98	-9.12	28.86	40.00	-11.14	QP
65.5725	43.61	-12.75	30.86	40.00	-9.14	QP
84.9993	55.28	-18.14	37.14	40.00	-2.86	QP
325.5957	52.07	-11.92	40.15	46.00	-5.85	QP
348.0274	48.15	-11.42	36.73	46.00	-9.27	QP

Remark:

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





EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 2		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.5091	45.34	-8.22	37.12	40.00	-2.88	QP
43.6584	46.43	-9.30	37.13	40.00	-2.87	QP
62.6507	48.00	-12.05	35.95	40.00	-4.05	QP
85.2980	54.79	-18.10	36.69	40.00	-3.31	QP
106.0126	45.60	-15.98	29.62	43.50	-13.88	QP
319.9370	49.87	-12.06	37.81	46.00	-8.19	QP

Remark:

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



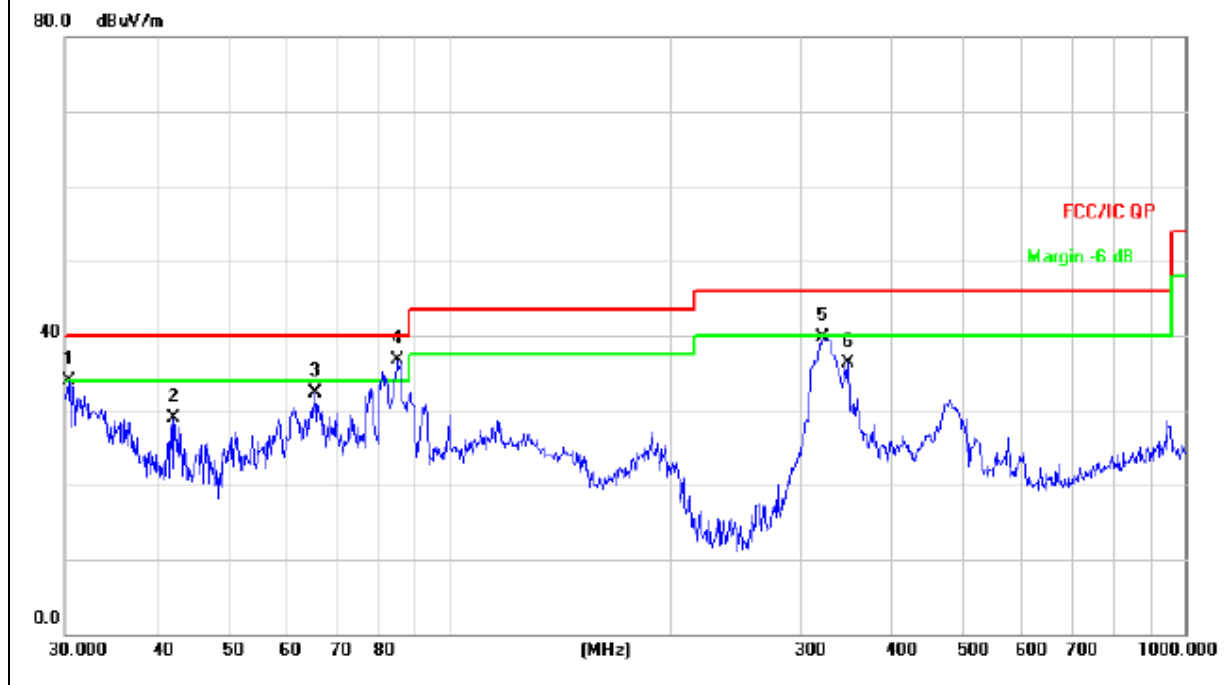


EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 3		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
30.3170	41.94	-8.06	33.88	40.00	-6.12	QP
42.1542	37.98	-9.12	28.86	40.00	-11.14	QP
65.5725	45.11	-12.75	32.36	40.00	-7.64	QP
84.9993	54.78	-18.14	36.64	40.00	-3.36	QP
321.0605	51.70	-12.03	39.67	46.00	-6.33	QP
348.0274	47.65	-11.42	36.23	46.00	-9.77	QP

Remark:

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





EUT:	milestone dual	Model Name :	KP-TWT02
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC5V For Adapter		
Test Mode :	Mode 3		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
31.5091	44.84	-8.22	36.62	40.00	-3.38	QP
43.6584	45.93	-9.30	36.63	40.00	-3.37	QP
62.6507	47.50	-12.05	35.45	40.00	-4.55	QP
85.2980	54.29	-18.10	36.19	40.00	-3.81	QP
106.0126	44.60	-15.98	28.62	43.50	-14.88	QP
319.9370	49.37	-12.06	37.31	46.00	-8.69	QP

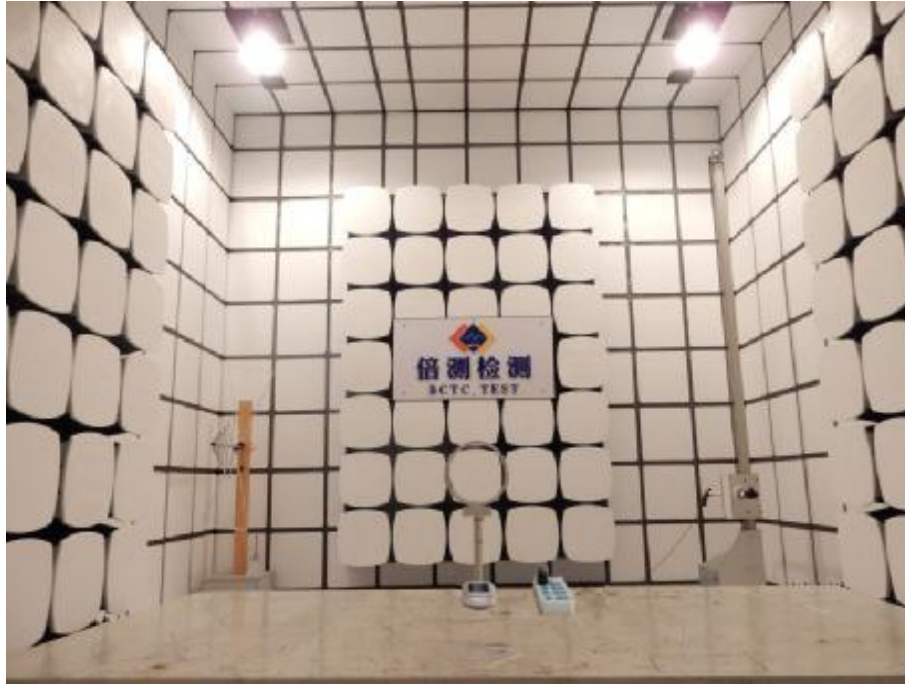
Remark:

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



7. EUT TEST PHOTO

9KHz-30MHz



30MHz-1GHz



conducted Emission



8. EUT PHOTO



***** END OF REPORT *****