

FCC Test Report

FCC ID:2AW2K-SC-306

Product: Tablet Stand

Trade Name: MAKEN

Model Number: SC-306

Family Model: SC-1306

Report No.: S20070702305001

Prepared for

Xiamen Maken Tech Co., Ltd.
No.77, Huli Industrial Zone, Xike, Tong'an District, Xiamen
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Xiamen Maken Tech Co., Ltd.
Address : No.77,Huli Industrial Zone,Xike, Tong'an District, Xiamen 361100
Fujian China
Manufacturer's Name : Xiamen Maken Tech Co., Ltd.
Address : No.77,Huli Industrial Zone,Xike, Tong'an District, Xiamen 361100
Fujian China

Product description

Product name : Tablet Stand
Model and/or type reference : SC-306, SC-1306

Standards : FCC part 15C
ANSI C63.10:2013

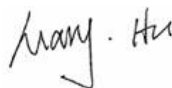
This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test :
Date (s) of performance of tests : 07 Jul. 2020~ 15 Jul. 2020
Date of Issue : 15 Jul. 2020
Test Result : **Pass**

Testing Engineer :



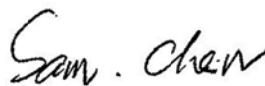
(Mary Hu)

Technical Manager :



(Jason Chen)

Authorized Signatory :



(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Test Item	FCC Rules	Limit	Judgment	Remark
FCC part 15C ANSI C63.10:2013	Conducted Emission	§15.207	Class B	PASS	
	Radiated Emission	§15.209	Class B	PASS	
	ANTENNA APPLICATION	§15.203	/	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126
P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR
Publication 22.

1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

- CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L5516.
- IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074
- FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184
- A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized
International Standard ISO/IEC 17025:2005 General requirements for
the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined
scope and the operation of a laboratory quality management system
(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
- Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.
- Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
Street, Bao'an District, Shenzhen 518126 P.R. China.

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on
a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence
of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

Revision History

Report No.	Version	Description	Issued Date
S20070702305001	Rev.01	Initial issue of report	15 Jul. 2020

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Tablet Stand
Trade Name	MAKEN
FCC ID	2AW2K-SC-306
Model No.	SC-306
Family Model	SC-1306
Model Difference	All the model are the same circuit and RF module, except the model name.
Operating Frequency	125KHz
Modulation Technique	Induction
Antenna Type	N/A
Power supply	☒ DC supply: Input: DC 24V
	☒ Adapter supply: Model: OLD240125AUSSD Input: 100-240V 50/60Hz 0.75max Output: DC 24V/1.25A
Output	N/A
Battery	N/A
HW Version	N/A
SW Version	N/A

2.1.1 DESCRIPTION OF TEST MODES

EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 1: Wireless link
Radiated Test Cases	Mode 1: Wireless link

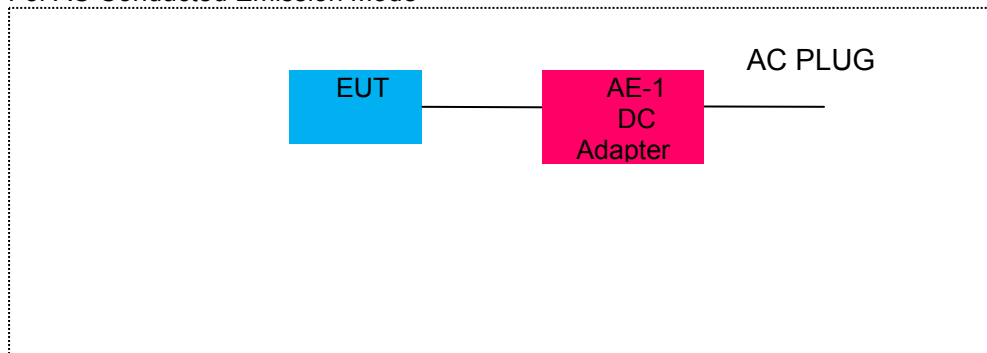
(*)EUT can only access the specified load, can not adjust the size of the load

Carrier Frequency and Channel list:

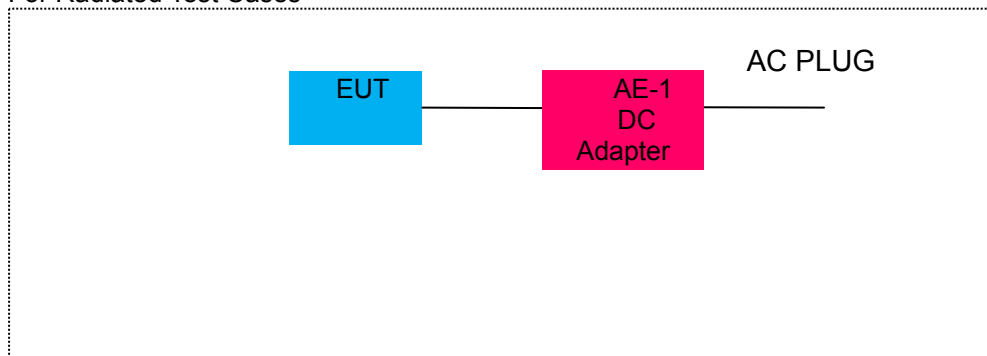
Channel	Frequency(MHz)
1	0.125

2.2 DESCRIPTION OF TEST SETUP

For AC Conducted Emission Mode



For Radiated Test Cases



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	OLD240125AUSSD	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note

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” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2019.08.28	2020.08.27	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2020.04.11	2021.04.10	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2019.12.11	2020.12.10	1 year
9	Amplifier	EMC	EMC051835SE	980246	2019.08.06	2020.08.05	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2019.12.11	2020.12.10	1 year
11	Power Meter	DARE	RPR3006W	15100041SN084	2019.08.06	2020.08.05	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2020.08.05	1 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	3 year
16	Filter	TRILTHIC	2400MHz	29	2019.08.06	2020.08.05	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.04.11	2021.04.10	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2021.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	limit	
	Quasi-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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

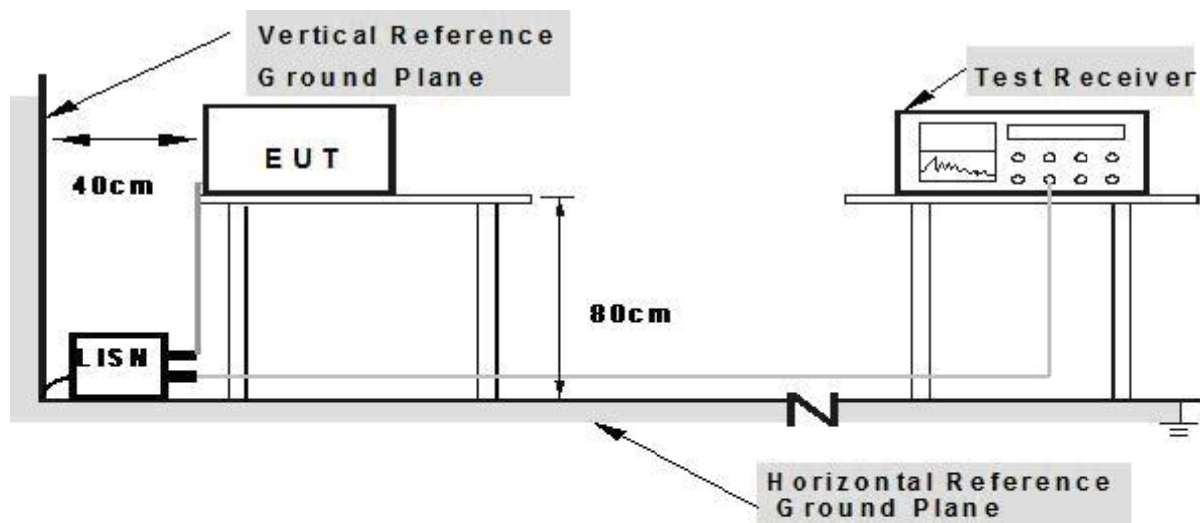
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



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

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

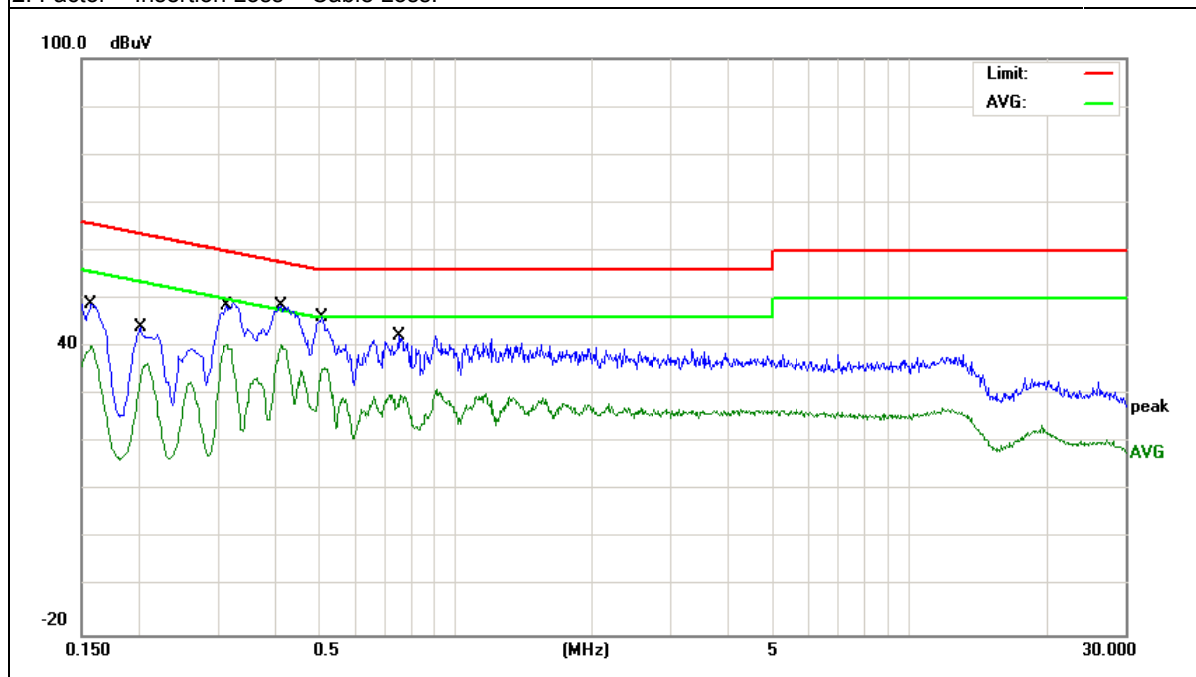
3.1.5 TEST RESULTS

EUT :	Tablet Stand	Model Name :	SC-306
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 24V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	39.32	9.56	48.88	65.56	-16.68	QP
0.1580	30.61	9.56	40.17	55.56	-15.39	AVG
0.2020	34.38	9.55	43.93	63.52	-19.59	QP
0.2020	26.91	9.55	36.46	53.52	-17.06	AVG
0.3140	39.56	9.54	49.10	59.86	-10.76	QP
0.3140	31.02	9.54	40.56	49.86	-9.30	AVG
0.4140	38.96	9.55	48.51	57.57	-9.06	QP
0.4140	30.82	9.55	40.37	47.57	-7.20	AVG
0.5100	36.54	9.55	46.09	56.00	-9.91	QP
0.5100	26.17	9.55	35.72	46.00	-10.28	AVG
0.7539	32.67	9.55	42.22	56.00	-13.78	QP
0.7539	20.34	9.55	29.89	46.00	-16.11	AVG

Remark:

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

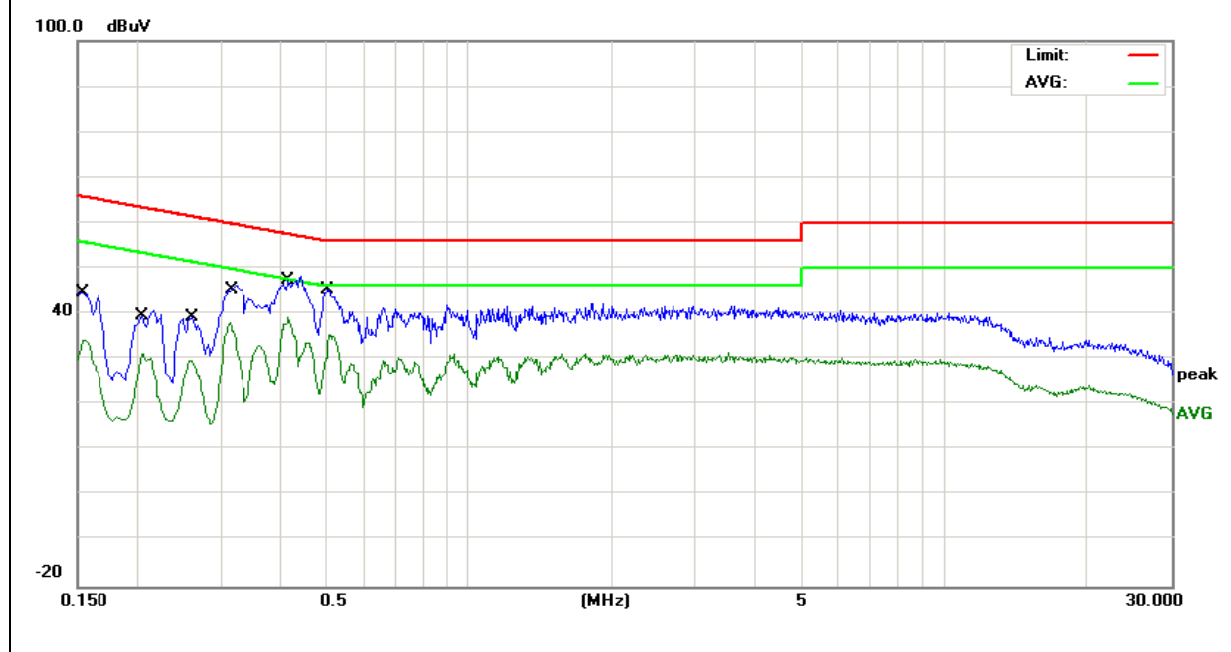


EUT :	Tablet Stand	Model Name :	SC-306
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 24V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	35.03	9.55	44.58	65.78	-21.20	QP
0.1539	24.73	9.55	34.28	55.78	-21.50	AVG
0.2060	31.12	9.54	40.66	63.36	-22.70	QP
0.2060	21.64	9.54	31.18	53.36	-22.18	AVG
0.2620	29.68	9.53	39.21	61.36	-22.15	QP
0.2620	20.07	9.53	29.60	51.36	-21.76	AVG
0.3140	36.54	9.53	46.07	59.86	-13.79	QP
0.3140	28.43	9.53	37.96	49.86	-11.90	AVG
0.4180	38.79	9.54	48.33	57.49	-9.16	QP
0.4180	29.80	9.54	39.34	47.49	-8.15	AVG
0.5060	35.82	9.54	45.36	56.00	-10.64	QP
0.5060	25.78	9.54	35.32	46.00	-10.68	AVG

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Notes:

- (1) Measurement was performed at an antenna to the closed point of EUT distance of meters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. 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 is a broadband antenna (Blow 30M, use loop antenna), and its 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited 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. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW $\geq 3 \times$ RBW

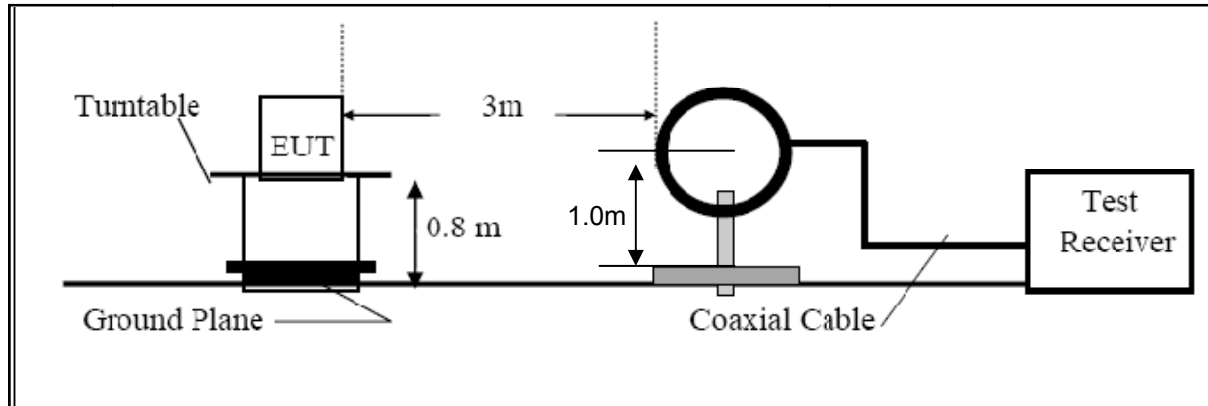
Sweep = auto

Detector function = QP

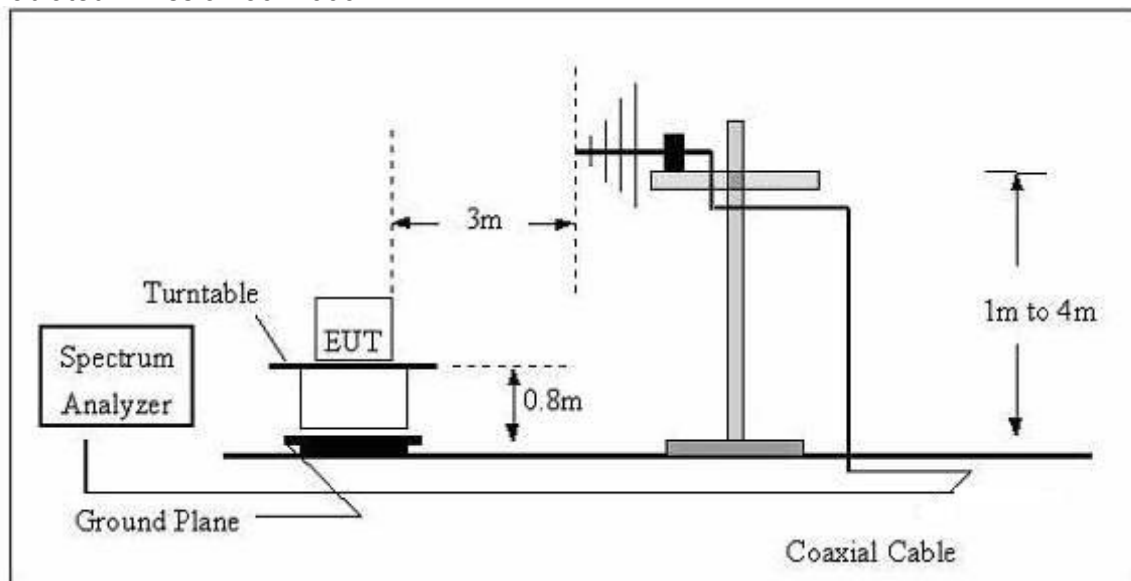
Trace = max hold

3.2.3 TEST SETUP

For Radiated Emission Test Set-Up, Frequency Below 30MHz



For Radiated Emission 30~1000MHz



3.2.4 TEST RESULTS

TEST RESULTS (9KHz~30MHz)

EUT:	Tablet Stand	Model Name. :	SC-306
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 24V from Adapter AC 120V/60Hz
Test Mode :	Mode 1	Polarization :	X

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.031	X	44.65	117.777	-73.13	PK
0.125	X	80.35	105.666	-25.32	PK(fundamental frequency)
0.661	X	46.130	71.200	-25.07	PK
1.567	X	37.240	63.703	-26.46	PK
4.334	X	33.190	69.542	-36.35	PK
23.086	X	35.060	69.542	-34.48	PK

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

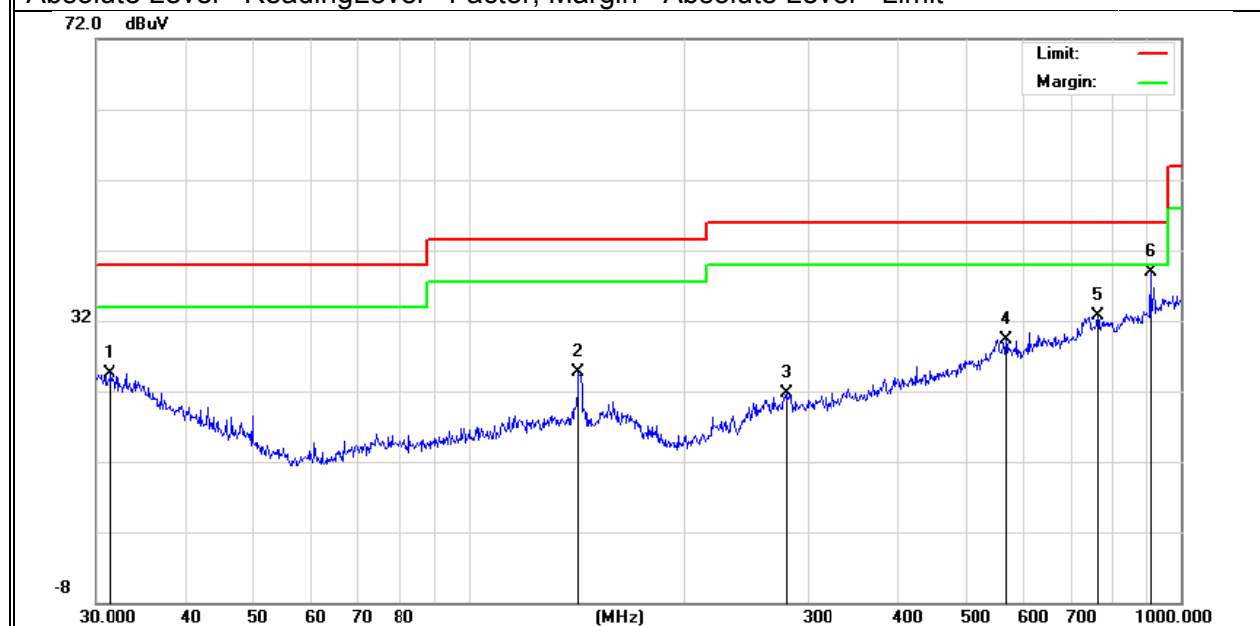
TEST RESULTS (30MHz ~1000MHz)

EUT:	Tablet Stand	Model Name. :	SC-306
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 24V from Adapter AC 120V/60Hz
Test Mode :	Mode 1	Polarization :	Horizontal

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	31.3992	6.41	18.10	24.51	40.00	-15.49	QP
H	142.8243	12.57	12.20	24.77	43.50	-18.73	QP
H	280.0237	5.65	16.00	21.65	46.00	-24.35	QP
H	568.6127	7.44	21.93	29.37	46.00	-16.63	QP
H	763.3757	7.79	24.91	32.70	46.00	-13.30	QP
H	906.4823	12.38	26.51	38.89	46.00	-7.11	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

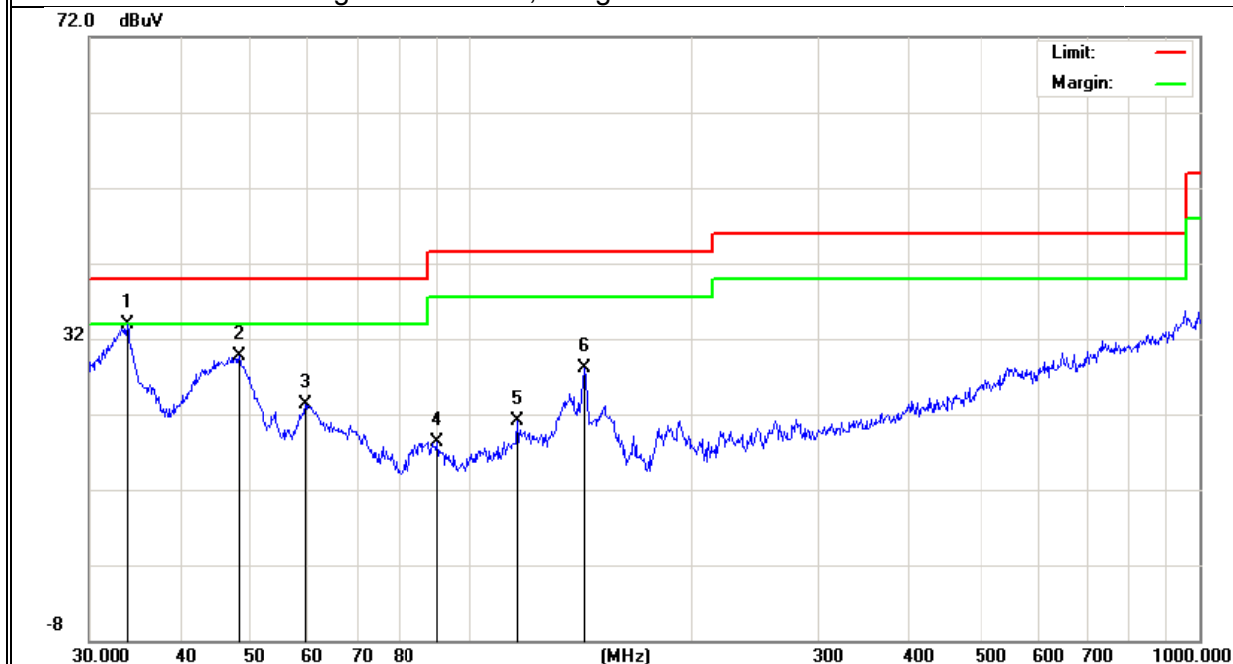


EUT:	Tablet Stand	Model Name. :	SC-306
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Power :	DC 24V from Adapter AC 120V/60Hz
Test Mode :	Mode 1	Polarization :	Vertical

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	33.9174	16.56	17.34	33.90	40.00	-6.10	QP
V	48.1625	18.92	10.72	29.64	40.00	-10.36	QP
V	59.4405	17.22	6.06	23.28	40.00	-16.72	QP
V	90.2205	8.57	9.76	18.33	43.50	-25.17	QP
V	116.1320	8.65	12.42	21.07	43.50	-22.43	QP
V	143.3260	15.91	12.17	28.08	43.50	-15.42	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

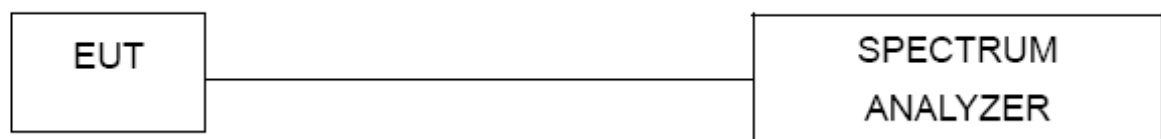


4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 500Hz and the video bandwidth of 2 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.

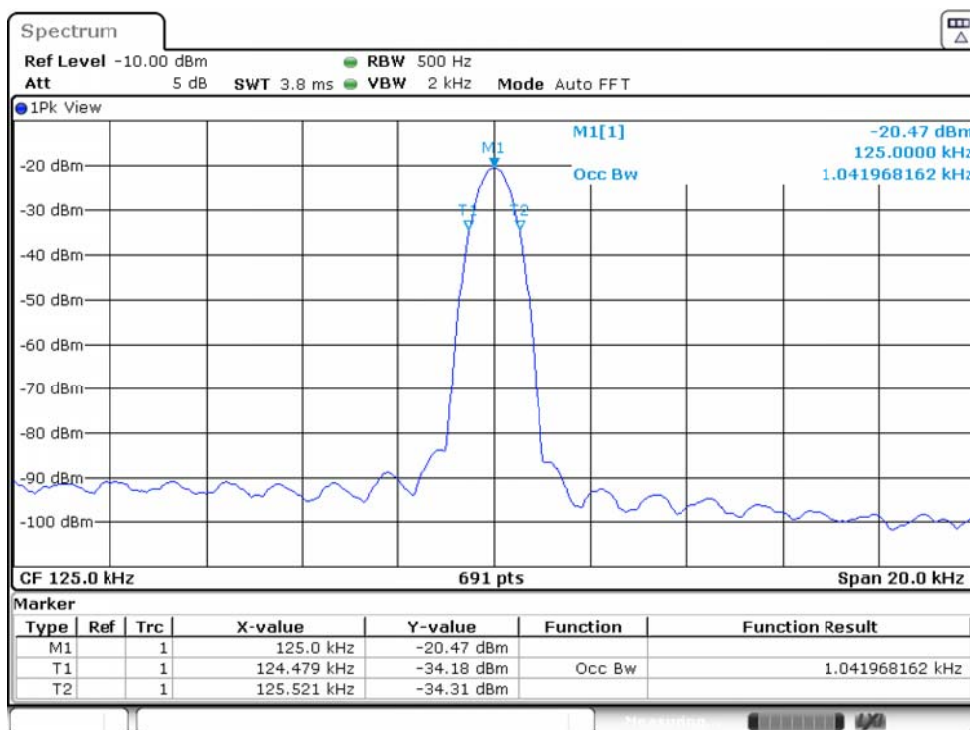
4.2 TEST SETUP



4.3 TEST RESULT

EUT:	Tablet Stand	Model Name. :	SC-306
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Mode :	Operating
Test Power :	DC 24V from Adapter AC 120V/60Hz		

99% Bandwidth- a single frequency (KHz)	F_L (kHz)	F_H (kHz)	Note: $F_L > 110\text{kHz}$, $F_H < 495\text{kHz}$, compliance with the Restricted bands requirements according to Part 15.205
1.042	124.479	125.521	



5. ANTENNA APPLICATION

5.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

5.2 Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

END REPORT