

# FCC Test Report

## FCC ID: 2AKO6-T1011

**Product:** Tablet

**Trade Mark:** ALLDOCUBE

**Model Number:** T1011

U1006、U1008、U1010、U1101、U1102、U1103

**Family Model:** T701、T802、T1015、T1016、T1017、T1018  
T1019、T1020、T1021、T1022、T1023

**Report No.:** STR200703001006E

**Prepared for**

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TEST RESULT CERTIFICATION

Applicant's name..... Shenzhen Alldocube Technology and Science Co., Ltd
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Manufacturer's Name... Shenzhen Alldocube Technology and Science Co., Ltd
Address ..... 18/F, Jia'anda Bldg, Huafan Road, Dalang, Longhua District, Shenzhen, China

Product description

Product name..... Tablet
Model and/or type reference ..... T1011
Family Model..... U1006、U1008、U1010、U1101、U1102、U1103、T701、T802、T1015、T1016、T1017、T1018、T1019、T1020、T1021、T1022、T1023
FCC Part15B

Standards..... ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test .....

Date (s) of performance of tests..... 03 Jul. 2020 ~ 17 Jul, 2020

Date of Issue ..... 17 Jul, 2020

Test Result ..... Pass

Testing Engineer : [Signature]
(Cheng Jiawen)

Technical Manager : [Signature]
(Jason Chen)

Authorized Signatory : [Signature]
(Sam Chen)

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**1. TEST SUMMARY**

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	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.



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet	
Trade Mark	ALLDOCUBE	
Model Name	T1011	
Family Model	U1006、U1008、U1010、U1101、U1102、U1103、T701、T802、T1015、T1016、T1017、T1018、T1019、T1020、T1021、T1022、T1023	
Model Difference	All models are the same circuit and RF module, except model name different.	
Product Description	The EUT is Tablet.	
	Connecting I/O port:	Micro USB, Earphone
	Operation Frequency:	max operating frequency: 2570MHz
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	<input checked="" type="checkbox"/> DC supply: DC 3.8V/6000mAh from battery or DC 5V from adapter.	
Adapter	<input checked="" type="checkbox"/> Adapter supply: Adapter : Model: APS-W010050200W-G Input: 100-240V~50/60Hz 0.35A Max Output: 5V---2.0A	
HW Version	V1.1	
SW Version	T1011S-V1.0-20200509	

### 2.1.1 DESCRIPTION OF TEST MODES

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.

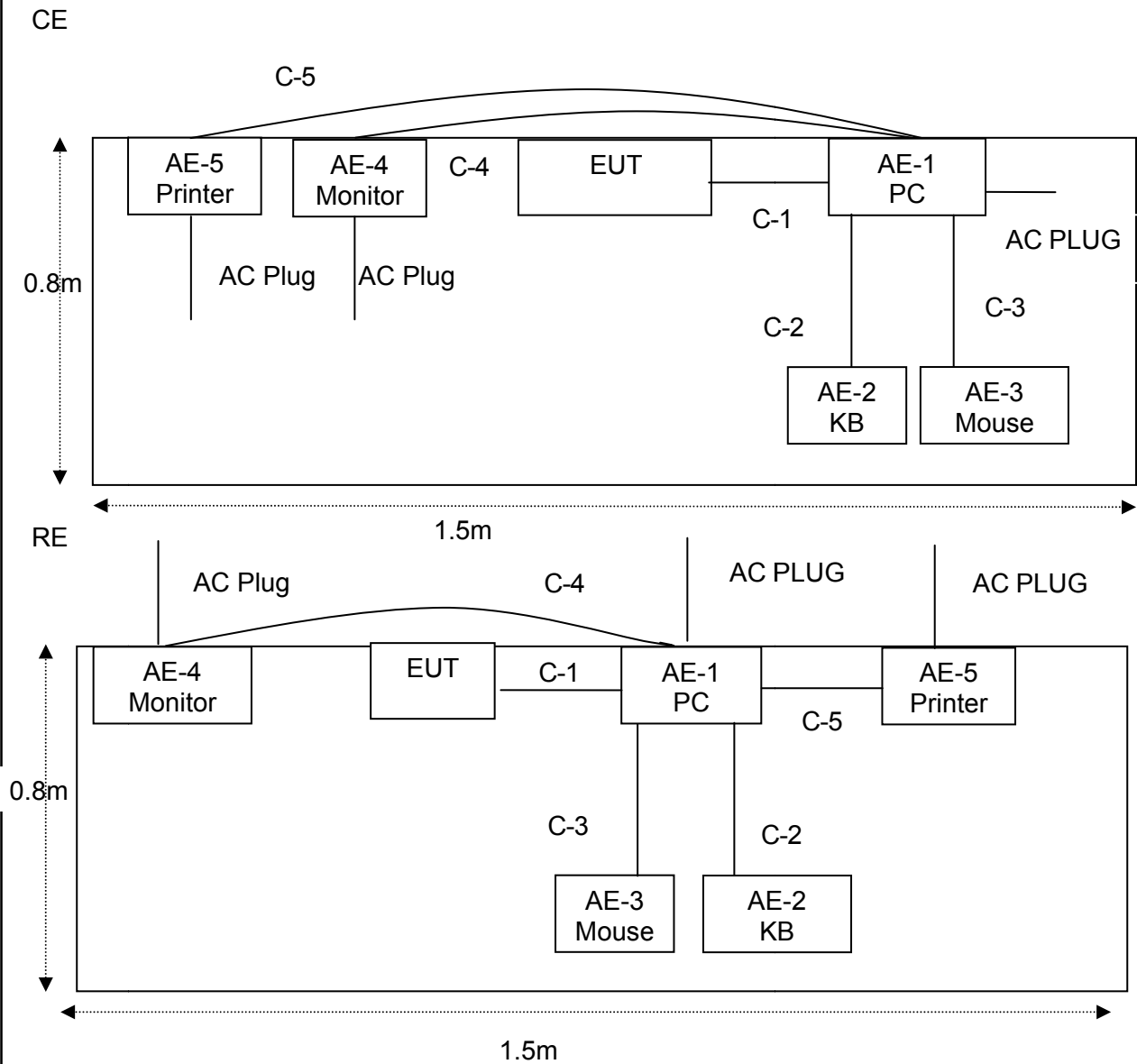
Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

For Radiated Test	
Final Test Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.  
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP





**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	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	DELL	SK-8185	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	N/A	N/A	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	KB Cable	NO	NO	1.2m	
C-3	Mouse Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	

**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

Item	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	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2020.05.11	2021.05.10	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2020.05.11	2021.05.10	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2020.04.11	2021.04.10	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2020.05.11	2021.05.10	1 year
8	Amplifier	EMC	EMC051835SE	980246	2019.08.06	2020.08.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2020.05.11	2021.05.10	1 year
10	Power Meter	DARE	RPR3006W	15I00041SNO84	2019.08.06	2020.08.05	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.05	2020.05.11	2021.05.10	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2020.08.05	1 year
13	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year

### 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 Test Cable which is scheduled for calibration every 3 years.

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	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.

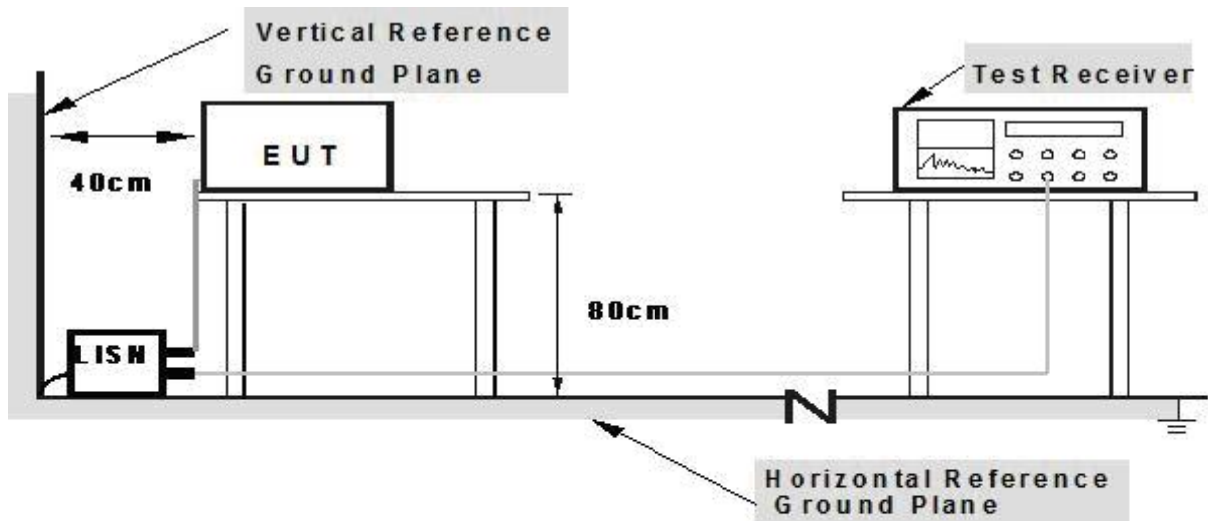
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. 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 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.

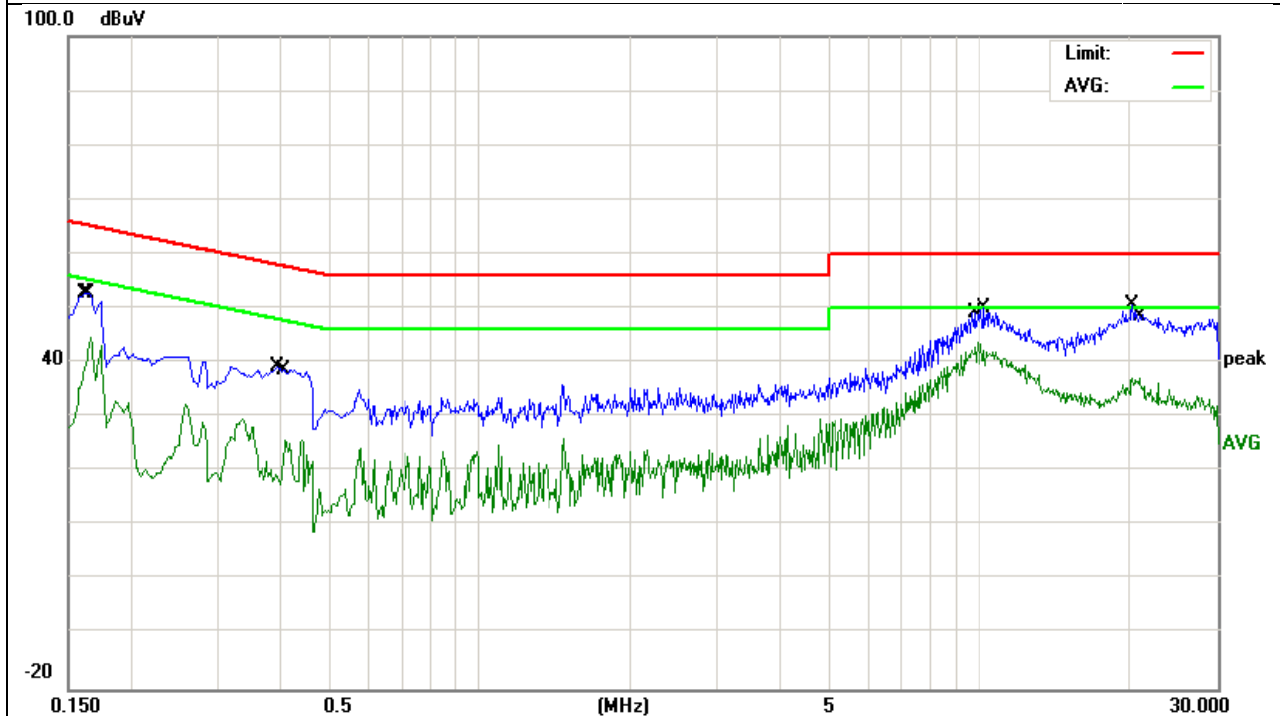
3.1.5 TEST RESULTS

EUT:	Tablet	Model Name. :	T1011
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2020-06-10
Test Mode:	Mode 1	N	L
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measurement (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	43.14	9.56	52.70	65.36	-12.66	QP
0.1660	34.98	9.56	44.54	55.15	-10.61	AVG
0.3940	29.61	9.55	39.16	57.98	-18.82	QP
0.4100	16.28	9.55	25.83	47.65	-21.82	AVG
9.9580	33.95	9.70	43.65	50.00	-6.35	AVG
10.2420	40.22	9.70	49.92	60.00	-10.08	QP
20.3540	40.59	9.94	50.53	60.00	-9.47	QP
20.9940	27.09	9.94	37.03	50.00	-12.97	AVG

Remark:

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

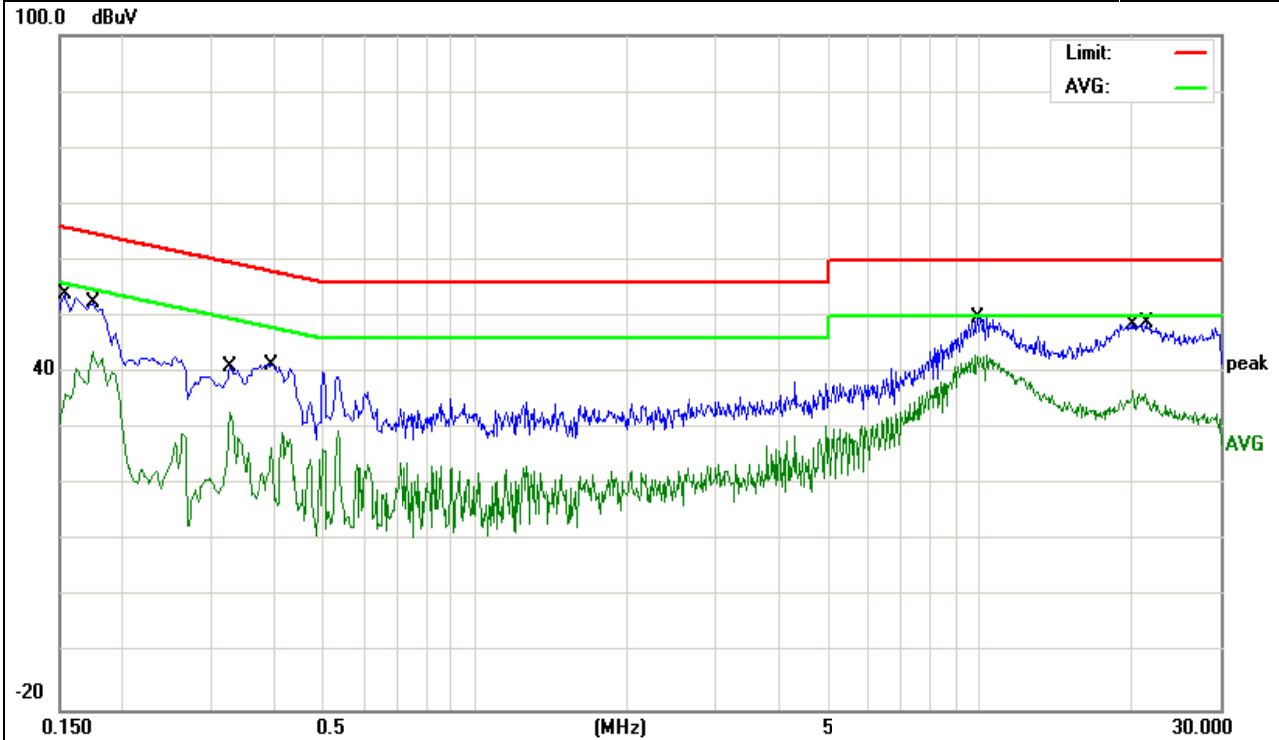


EUT:	Tablet	Model Name. :	T1011
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2020-06-10
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	44.54	9.55	54.09	65.78	-11.69	QP
0.1740	34.34	9.55	43.89	54.76	-10.87	AVG
0.3268	22.89	9.53	32.42	49.53	-17.11	AVG
0.3940	31.87	9.54	41.41	57.98	-16.57	QP
9.8139	33.46	9.69	43.15	50.00	-6.85	AVG
9.9580	40.11	9.69	49.80	60.00	-10.20	QP
20.2060	26.95	9.92	36.87	50.00	-13.13	AVG
21.3900	38.85	9.91	48.76	60.00	-11.24	QP

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

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:  
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 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, 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.

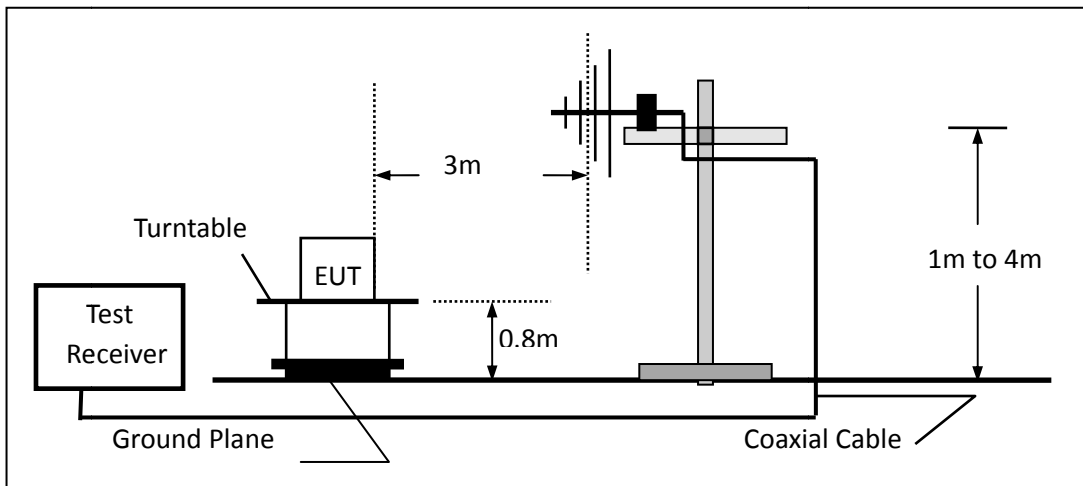
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the

worst case is recorded in the report  
 During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

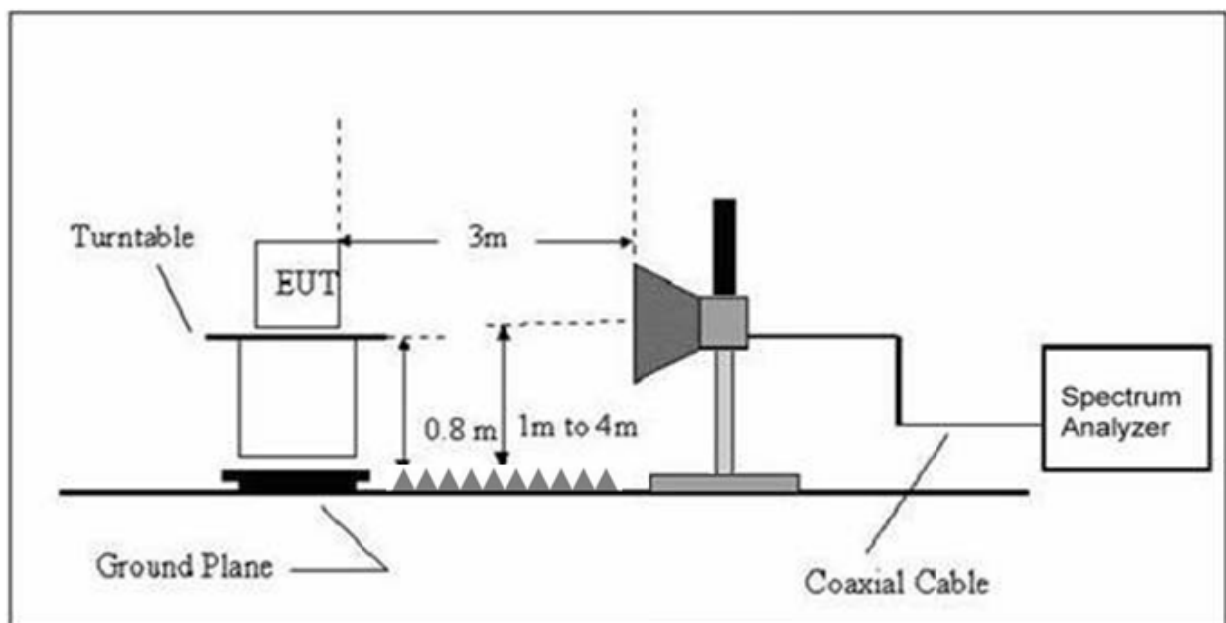
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Avg	1 MHz	10 Hz

**3.2.3 TEST SETUP**

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz





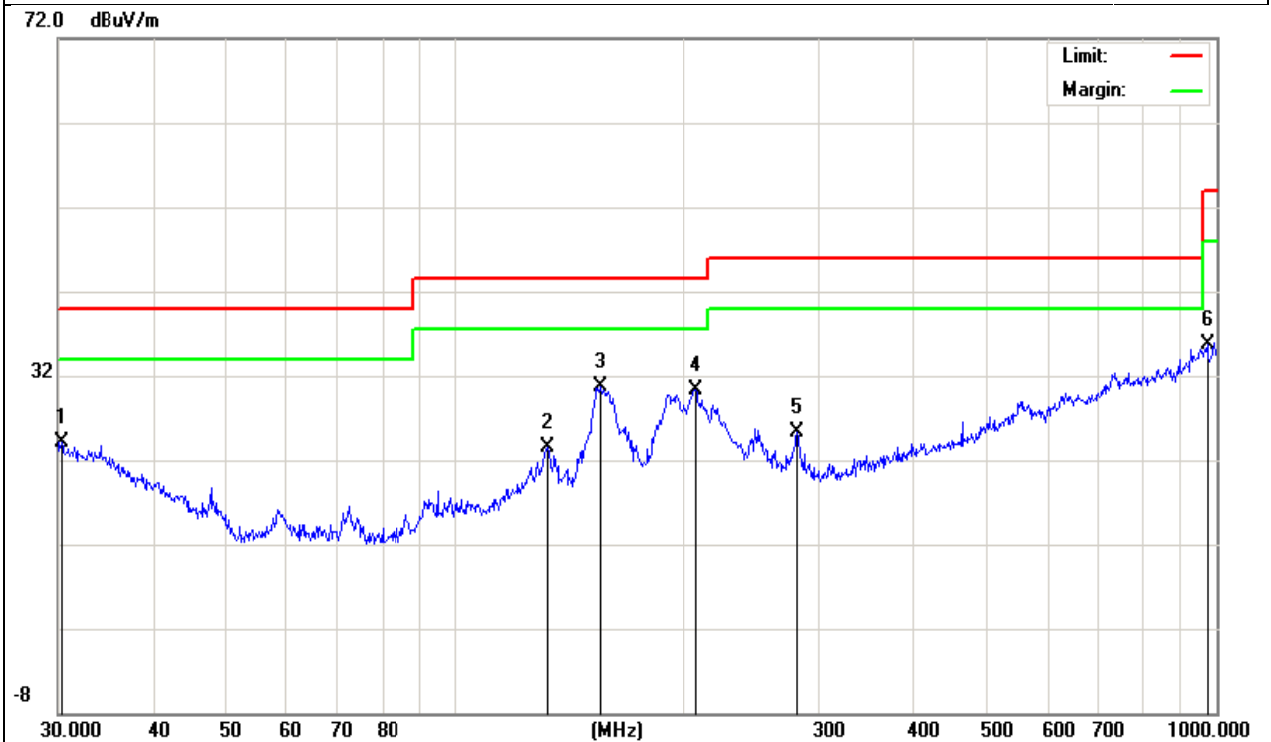
3.2.4 TEST RESULTS

TEST RESULTS (30~1000 MHz)

EUT:	Tablet	Model Name:	T1011
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-06-10
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.3172	5.50	18.68	24.18	40.00	-15.82	QP
H	132.2205	10.90	12.54	23.44	43.50	-20.06	QP
H	154.8204	19.05	11.69	30.74	43.50	-12.76	QP
H	207.1226	20.43	9.86	30.29	43.50	-13.21	QP
H	281.0075	9.61	15.67	25.28	46.00	-20.72	QP
H	972.3374	7.42	28.26	35.68	54.00	-18.32	QP

Remark:  
Factor = Antenna Factor + Cable Loss - Amplifier.

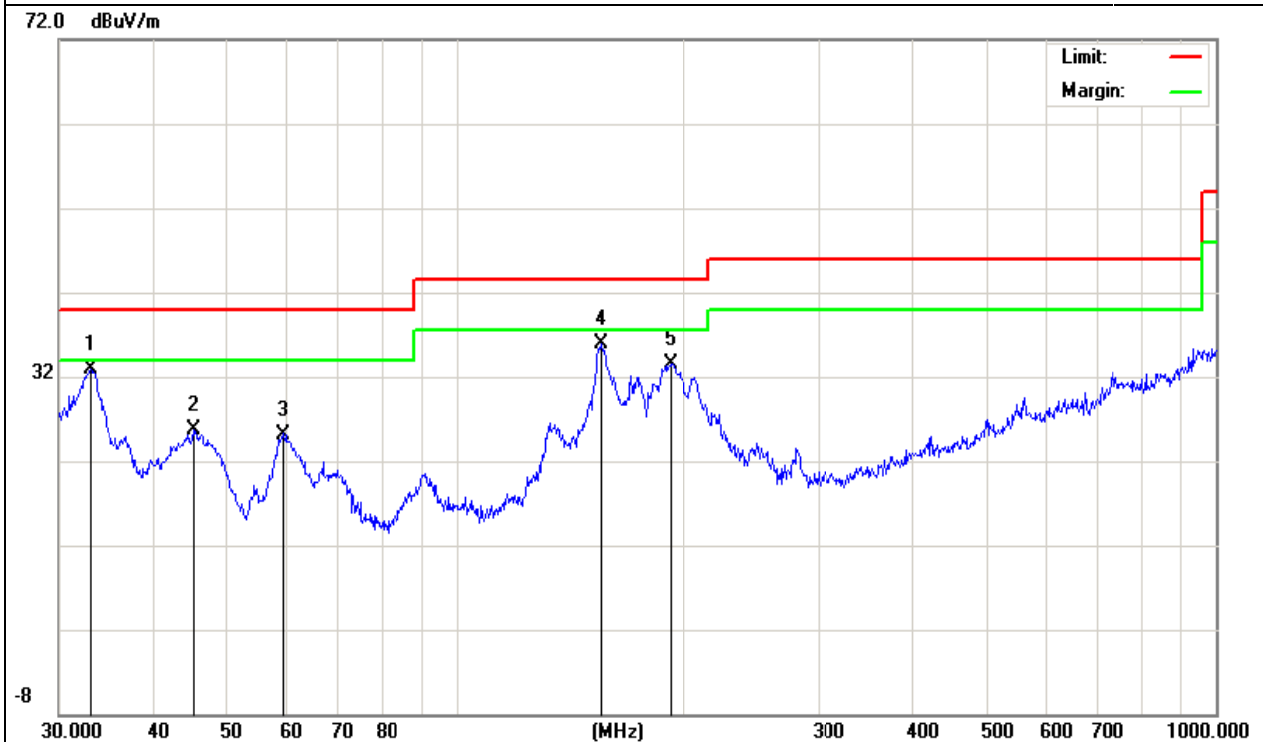


EUT:	Tablet	Model Name :	T1011
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-06-10
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.9791	15.39	17.56	32.95	40.00	-7.05	QP
V	45.0583	14.41	11.28	25.69	40.00	-14.31	QP
V	59.2325	19.10	6.10	25.20	40.00	-14.80	QP
V	155.3644	24.30	11.61	35.91	43.50	-7.59	QP
V	191.7450	24.42	9.05	33.47	43.50	-10.03	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~26500MHz)

EUT:	Tablet	Model Name :	T1011
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2020-07-03
Test Mode :	Mode 1		
Test Power :	DC 5V from PC AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	1340	41.09	2.29	43.38	74	-30.62	peak
V	2827.5	39.82	6.01	45.83	74	-28.17	peak
V	4272.5	37.8	11.74	49.54	74	-24.46	peak
V	8522.5	34.95	18.7	53.65	74	-20.35	peak
V	4272.5	26.61	11.74	38.35	54	-15.65	AVG
V	8522.5	27.21	18.7	45.91	54	-8.09	AVG
V	13835	25.36	24.38	49.74	54	-4.26	AVG
V	17065	22.19	28.02	50.21	54	-3.79	AVG
V	13835	35.79	24.38	60.17	74	-13.83	peak
V	17065	34.46	28.02	62.48	74	-11.52	peak
H	1297.5	40.91	2.16	43.07	74	-30.93	peak
H	2105	38.85	6.29	45.14	74	-28.86	peak
H	4230	39.54	11.52	51.06	74	-22.94	peak
H	8522.5	34.54	18.7	53.24	74	-20.76	peak
H	2105	27.64	6.29	33.93	54	-20.07	AVG
H	4230	28.73	11.52	40.25	54	-13.75	AVG
H	9245	29.64	18.93	48.57	54	-5.43	AVG
H	14515	34.47	24.43	58.9	74	-15.1	peak
H	17022.5	30.65	27.88	58.53	74	-15.47	peak
H	14515	24.53	24.43	48.96	54	-5.04	AVG
H	17022.5	22.58	27.88	50.46	54	-3.54	AVG

Remark:

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

Note: Only the worst results data points are reported in the report.

END OF REPORT