



TEST REPORT

Applicant:	Axesstel, Inc.	
Address:	6815 Flanders Drive, Suite 210, San Diego, CA92121, USA	
	·	
Manufacturer or Supplier	Axesstel (Shanghai) Ltd.	
Address	Room 1101, Building 19, No.1515 Gumei Road, Shanghai, China	
Product:	CDMA Fixed Wireless Terminal	
Brand Name:	Axesstel	
Model:	TX241G	
Additional Model & Model Difference:	N/A	
Date of tests:	Jul. 27, 2013 ~ Aug. 15, 2013 & Aug. 29, 2013 ~ Aug. 30, 2013	
The submitted sample of the above equipment has been tested for according to the requirements of the following standards:		

FCC Part 15, Subpart B, Class B

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

	-		
Tested by Jeffery Lee Project Engineer / EMC Department	Approved by Madison Luo Supervisor/ EMC Department		
Jeffery Lee.	Madison		
	Date: Sep. 02, 2013		
This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue			

within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

Bureau Veritas Shenzhen Co., Ltd. **Dongguan Branch**

No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

Tel.: +86 769 8593 5656 Fax: +86 769 8593 1080 Email: customerservice.dg@cn.bureauveritas.com



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV130726N045	Original release	Aug. 15, 2013
FV130726N044	Based on the original report, the new EUT with model number "TX241G" has no Z-wave function compared with the original EUT with model number "AX240"	Sep. 02, 2013



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B				
Standard Section	Test Item	Result	Remark	
15.107	5.107 Conducted Emission Test		Meet the requirement of limit. Minimum passing margin is - -10.31dB at 0.67311MHz.	
15.109	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -8.38dB at 33.23MHz	
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -9.4dB at 5335.00MHz	

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT 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.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.67dB
Dedicted emissions	30MHz ~ 1GHz	+/-4.81dB
Radiated emissions	1GHz~ 18GHz	+/-4.30 dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	CDMA Fixed	d Wireless Terminal		
MODEL NO.	TX241G	TX241G		
FCC ID	PH7TX2410			
NOMINAL VOLTAGE	DC 3.7V from	m battery or DC 5V from adapter		
BATTERY	Brand Name: BAK Model Name: X200 Power Rating: DC 3.7V, 1600mAh, Li-ion			
MODULATION TYPE	CDMA QPSK, OQPSK, HPSK			
OPERATING FREQUENCY	CDMA 824.7MHz ~ 848.31MHz for CDMA2000 BC0; 1851.25MHz ~ 1908.75MHz for CDMA2000 BC1			
HW Version	3.0.2			
SW Version	0.3.4			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	N/A			
ACCESSORY DEVICES	Adapter			

NOTE:

1. The EUT was powered by the following adapters:

ADAPTER 1	ADAPTER 1			
BRAND:	STH			
MODEL:	P6050100 US			
INPUT:	AC 100-240V,50/60Hz,0.2A			
OUTPUT:	DC 5V, 1000mA			
DC Line:	Unshielded,Undetachable,1.8M			

ADAPTER 2	
BRAND:	STH
MODEL:	TA31-0502000
INPUT:	AC 100-240V,50/60Hz,0.4A
OUTPUT:	DC 5V, 2000mA
DC Line:	Unshielded,Undetachable,1.8M

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4. The EUT in this report with model number "TX241G" is identical with the original EUT with model number "AX240" in the original report except having no Z-wave function. Only radiated emission worst case was performed for the new EUT "TX241G", and therefore only radiated emission test data are updated compared with the original report with report No. FV130726N045.

2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following mode. And the final worst mode is marked in boldface and recorded in this report.

For conducted emission test:

Mode 1	CDMA 2000 BC0+RJ11 Link	Adapter 1
		Adapter 2
Mode 2	CDMA 2000 BC1+RJ11 Link	Adapter 1
		Adapter 2

For radiated emission test:

Mada 1	CDMA 2000 BC0+RJ11 Link	Adapter 1
Mode 1 Mode 2		Adapter 2
		Adapter 1
wode z	CDMA 2000 BC1+RJ11 Link	Adapter 2

Report Version 1



2.3 DESCRIPTION OF SUPPORT UNITS

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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Universal Radio Communication Tester	R&S	CMU200	123259	N/A
2	Telephone	CHINO-E	HCD6138(20)P	N/A	N/A
3	Telephone	MSQ	HCD2968	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS						
1	N/A						
2	RJ11 cable: Unshielded, Detachable, 1m						
3	RJ11 cable: Unshielded, Detachable, 1m						

NOTE:

1. All power cords of the above support units are non-shielded (1.8m).



3 EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	May 14,13	May 13,14
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 14,13	May 13,14
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA

2. The test was performed in Shielded Room 553.



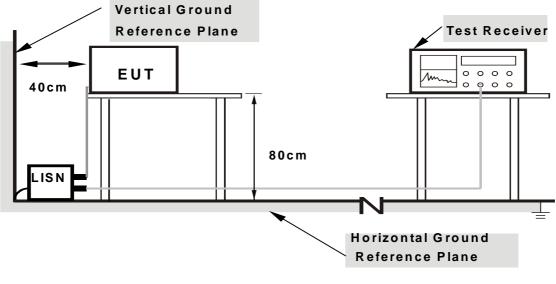
- 3.1.3 TEST PROCEDURES
 - a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
 - b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
 - c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.
- NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



3.1.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.

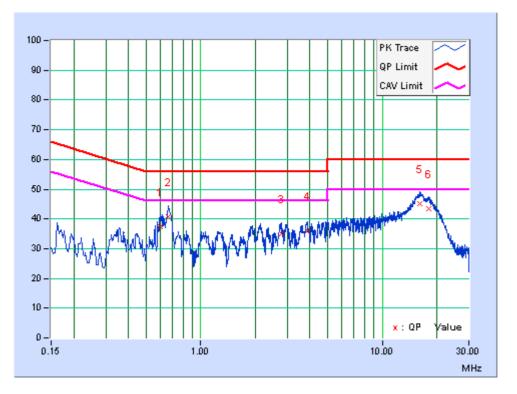


3.1.7 TEST RESULTS

TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V, 1A From Adapter Input AC 120V/60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 56% RH	TESTED BY	Bin

	Freq.	Corr.	Reading Value			sion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB	(uV)]	[dB ((uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.59628	10.26	26.95	17.37	37.21	27.63	56	46	-18.79	-18.37
2	0.66255	10.19	30.43	22.75	40.62	32.94	56	46	-15.38	-13.06
3	2.77752	9.91	25.07	17.37	34.98	27.28	56	46	-21.02	-18.72
4	3.8645	9.93	26.15	16.45	36.08	26.38	56	46	-19.92	-19.62
5	16.1419	10.37	34.88	24.88	45.25	35.25	60	50	-14.75	-14.75
6	17.97178	10.44	32.94	24.2	43.38	34.64	60	50	-16.62	-15.36

REMARKS: The emission levels of other frequencies were very low against the limit.



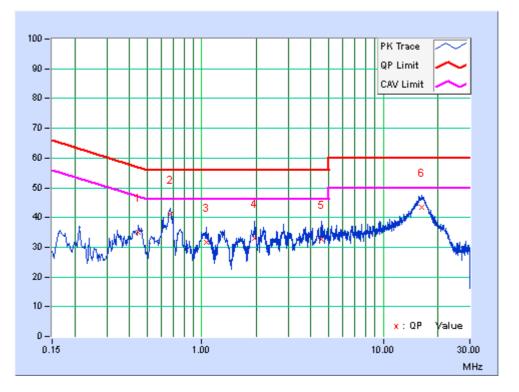
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TEST MODE	Mode 1	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V, 1A From Adapter Input AC 120V/60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 56% RH	TESTED BY	Bin

	Freq.	Corr.	Readin	Reading Value		Emission Level				nit	Mar	gin
No		Factor	[dB (uV)]		[dB (uV)]		[dB	(uV)]	(d	B)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.		
1	0.44742	10.49	24.55	19.08	35.04	29.57	56.92	46.92	-21.88	-17.35		
2	0.67311	10.15	30.83	25.54	40.98	35.69	56	46	-15.02	-10.31		
3	1.06494	9.86	21.84	16.34	31.7	26.2	56	46	-24.3	-19.8		
4	1.94469	9.69	23.35	17.26	33.04	26.95	56	46	-22.96	-19.05		
5	4.60349	9.76	22.97	15.44	32.73	25.2	56	46	-23.27	-20.8		
6	16.32567	10.4	33.01	20.61	43.41	31.01	60	50	-16.59	-18.99		

REMARKS: The emission levels of other frequencies were very low against the limit.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

FREQUENCY	Class A	(at 10m)	Class B (at 3m)		
(MHz)	uV/m	dBuV/m	uV/m	dBuV/m	
30 – 88	90	39.1	100	40.0	
88 – 216	150	43.5	150	43.5	
216 - 960	210	46.4	200	46.0	
960 - 1000	300	49.5	500	54.0	

Based on FCC part 15 clause 15.109(g). As an alternative to the radiated emission limits to comply with the standards contained in CISPR 22.

FOR FREQUENCY BELOW 1000 MHz

FREQUENCY	Class A (at 10m)	Class B (at 10m)		
(MHz)	dBuV/m	dBuV/m		
30 – 230	40	30		
230 – 1000	47	37		

FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 - 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80.0	60.0	74.0	54.0	

Note: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

For frequency below 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
EMI Test Receiver	Rohde&Schwarz	ESVD	847398/003	May 14,13	May 13,14
Bilog Antenna	Teseq	CBL 6111D	25757	Nov. 22,12	Nov. 21,13
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 24,13	Mar. 23,14
Pre-Amplifier (20MHz-3GHz)	EMCI	EMC 330	980095	Nov. 02,12	Nov.01,13
Test Software	ADT	ADT_Radiated _V7.6.15	N/A	N/A	N/A
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14

For frequency above 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	EMCO	3117	00062558	Oct.18,12	Oct.17,13
Spectrum Analyzer	Agilent	E4446A	MY46180622	April 24,13	Apr. 23,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 14,13	May 13,14
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 14,13	May 13,14
Pre-Amplifier (18GHz-40GHz)	EMCI		980102	Nov. 04,12	Nov. 03,13
Test Software	ADT	ADT_Radiated_V 7.6.15	N/A	N/A	N/A

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

- 2. The test was performed in Chamber 10m.
- 3. The FCC Site Registration No. is 502831.



3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters (below 1GHz) and 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 6. Margin value = Emission level Limit value.

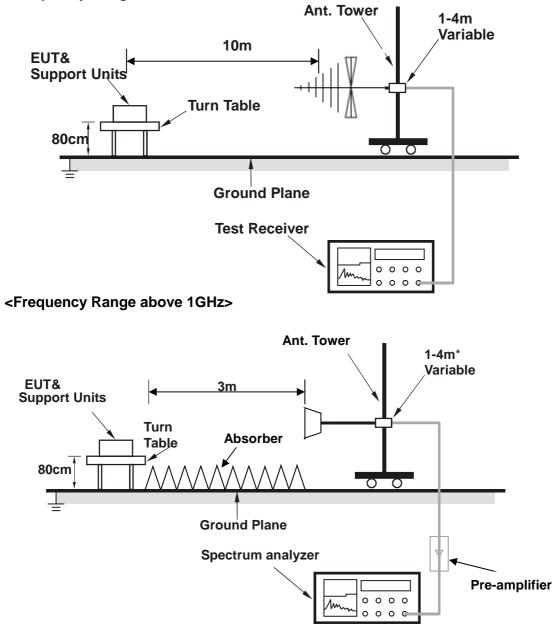
3.2.4 DEVIATION FROM TEST STANDARD

No deviation



3.2.5 TEST SETUP

<Frequency Range below 1GHz>



* : depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

3.2.6 EUT OPERATING CONDITIONS

Same as item 3.1.6.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

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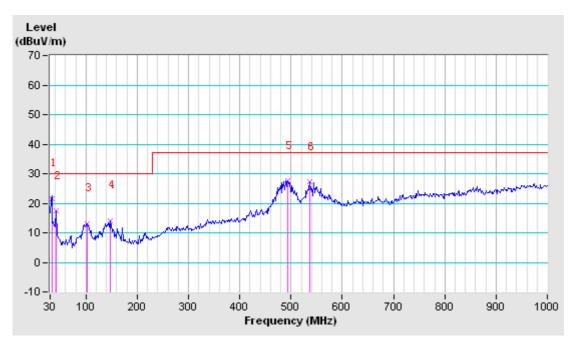


3.2.7 TEST RESULTS (BELOW 1GHz)

TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz	
TEST VOLTAGE	DC 5V,2A From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS	26deg. C, 57% RH	TESTED BY: Endy.Xie		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	33.23	18.33	3.29	21.62	30	-8.38	376	349	
2	41.32	13.73	3.64	17.37	30	-12.63	377	294	
3	102.75	11.73	1.28	13.01	30	-16.99	372	220	
4	146.4	12.77	1.23	14.0	30	-16.0	355	200	
5	493.98	20.68	6.84	27.52	37	-9.48	310	149	
6	536.02	21.78	5.38	27.16	37	-9.84	109	0	

REMARKS: The emission levels of other frequencies were very low against the limit.



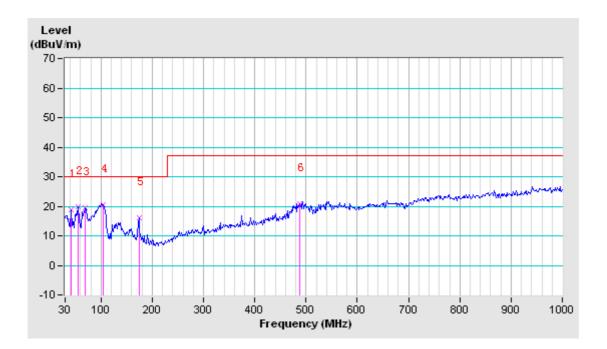
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TEST MODE	Mode 2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC 5V,2A From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 57% RH	TESTED BY: Endy.Xie	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	41.32	13.73	5.23	18.96	30	-11.04	100	80	
2	55.87	9.33	10.63	19.96	30	-10.04	100	173	
3	68.8	7.72	11.87	19.59	30	-10.41	100	139	
4	104.37	11.95	8.65	20.6	30	-9.4	100	214	
5	173.88	11.06	5.08	16.14	30	-13.86	100	194	
6	487.52	20.55	0.42	20.97	37	-16.03	244	309	

REMARKS: The emission levels of other frequencies were very low against the limit.



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3.2.8 TEST RESULTS (ABOVE 1GHz)

TEST MODE	Mode 2	FREQUENCY RANGE		
TEST VOLTAGE	DC 5V,2A From Adapter Input AC 120V/60Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	AV/Peak, 1MHz	
ENVIRONMENTAL CONDITIONS	26deg. C, 57% RH	TESTED BY: Endy.Xie		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M									
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)		
1	3085.00 PK	4.58	48.62	53.2	74	-20.8	100	164		
2	3085.00 AV	4.58	38.32	42.9	54	-11.1	100	164		
3	5335.00 PK	8.94	46.06	55	74	-19.0	100	240		
4	5335.00 AV	8.94	35.66	44.6	54	-9.4	100	240		
5	7270.00 PK	12.17	42.33	54.5	74	-19.5	100	312		
6	7270.00 AV	12.17	31.63	43.8	54	-10.2	100	312		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No	Freq. (MHz)	Correcti on Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	3100.00 PK	4.61	48.49	53.1	74	-20.9	100	142
2	3100.00 AV	4.61	38.09	42.7	54	-11.3	100	142
3	5572.00 PK	9.39	44.81	54.2	74	-19.8	100	249
4	5572.00 AV	9.39	34.21	43.6	54	-10.4	100	249
5	7210.00 PK	12.18	43.12	55.3	74	-18.7	100	340
6	7210.00 AV	12.18	32.12	44.3	54	-9.7	100	340

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

See test setup photo document.



5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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