



# **EMC TEST REPORT**

Applicant:	Chuango Security Technology Corporation
Address:	Room 6-17, Overseas Students Pioneer Park, No. 108, Jiangbin East Road, Economic & Technological Development Zone, Fuzhou 350015, China

Manufacturer or Supplier	Chuango Security Technology Corporation
Address	Room 6-17, Overseas Students Pioneer Park, No. 108, Jiangbin East Road, Economic & Technological Development Zone, Fuzhou 350015, China
Product	3G/WCDMA Alarm System
Brand Name	smanos
Model Name	X330
FCC ID	RJY-X330
Date of tests	Sep, 29, 2016 ~ Oct. 28, 2016

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

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

Tested by Eric Shi	Approved by Bill Yao	
Engineer / Mobile Department	Manager / Mobile Department	
Em	Bell	
Date: Oct. 29, 2016	Date: Oct. 29, 2016	

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# **RELEASE CONTROL RECORD**

ISSUE NO.	UE NO. REASON FOR CHANGE	
FV160115W002	Original release	Oct. 29, 2016

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# 1 GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	3G/WCDMA Alarm System	
MODEL NAME	X330	
NOMINAL VOLTAGE	12.0Vdc (adapter)	
OPERATIONAL FREQUENCY	915MHz (RX)	
HW VERSION	V2.3	
SW VERSION	X330_V2.3_STM32_1509151100	
I/O PORTS	Refer to user's manual	
ACCESSORY DEVICES  Refer to note as below		

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. The EUT was powered by the following adapter:

ADAPTER		
BRAND:	smanos	
MODEL:	SA-US12V	
NPUT:	AC 100-240V, 300mA	
OUTPUT:	DC 12V, 500mA	
POWER CORD:	1.5 meter	

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



### 1.2 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	
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test  Radiated Emission	PASS PASS	Meets limits minimum passing margin is -14.48dB at 0.472000MHz.  Meets Class B Limit Minimum passing margin is	
	Test (30MHz ~ 1GHz)		-10.47dB at 32.91MHz Meets Class B Limit	
	Radiated Emission Test (Above 1GHz)	PASS	Minimum passing margin is -4.97dB at 5852MHz	

#### 1.3 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	+/-2.66dB	
Dedicted emissions	30MHz ~ 1GHz	+/-3.55dB	
Radiated emissions	1GHz ~ 18GHz	+/-4.84dB	



# 1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition			
	Radiated emission test			
1 3G/WCDMA Alarm System+ Adapter + Normal Operation (915MHz RX)				
	Conducted emission test			
1	3G/WCDMA Alarm System+ Adapter + Normal Operation (915MHz RX)			

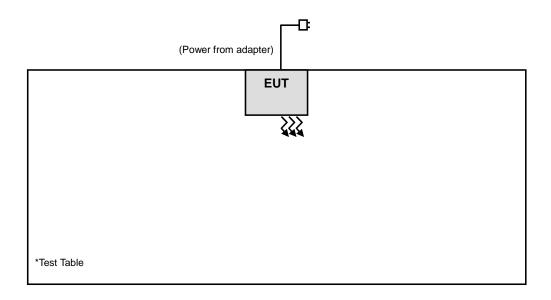
#### NOTE:

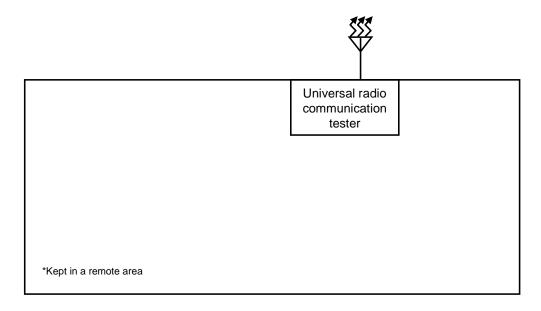
- 1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.

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#### **CONFIGURATION OF SYSTEM UNDER TEST** 1.5





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### **2 EMISSION TEST**

# 2.1 CONDUCTED EMISSION MEASUREMENT

# 2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5 0.5 ~ 5	66 to 56 56	56 to 46 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 0.50 MHz.
- 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.

#### 2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101588	Jan. 22,16	Jan. 21,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
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 Dongguan Shielded Room 553.



#### 2.1.3 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 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

#### 2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

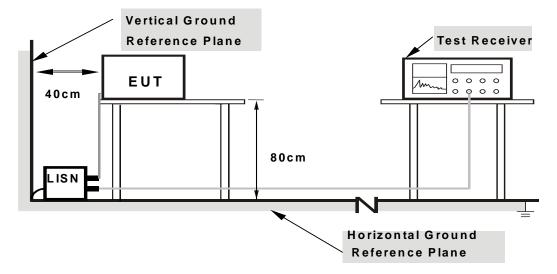
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# 2.1.5 TEST SETUP



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).

### 2.1.6 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.



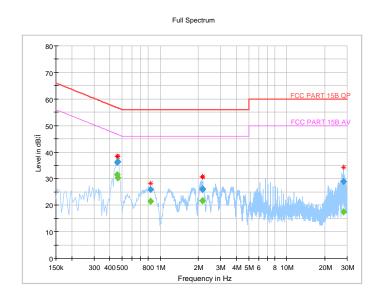
#### 2.1.7 TEST RESULTS

TEST VOLTAGE	DC 12V From Adapter Input 120Vac, 50 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Aizhong Tang

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.456000	36.21		56.77	-20.56	L	ON	9.7
0.456000		31.45	46.77	-15.32	L	ON	9.7
0.460000	36.43		56.69	-20.26	L	ON	9.7
0.460000		30.30	46.69	-16.39	L	ON	9.7
0.840000		21.55	46.00	-24.45	L	ON	9.7
0.840000	25.95		56.00	-30.05	L	ON	9.7
2.148000		21.62	46.00	-24.38	L	ON	9.7
2.148000	25.84		56.00	-30.16	L	ON	9.7
2.164000		21.62	46.00	-24.38	L	ON	9.7
2.164000	26.14		56.00	-29.86	L	ON	9.7
28.180000		17.41	50.00	-32.59	L	ON	10.2
28.180000	28.85		60.00	-31.15	L	ON	10.2

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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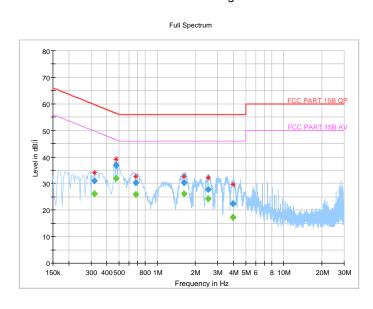


TEST VOLTAGE	DC 12V From Adapter Input 120Vac, 50 Hz	6dB BANDWIDTH	9 kHz	
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Aizhong Tang	

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.320000		26.06	49.71	-23.65	N	ON	10.0
0.320000	31.02		59.71	-28.69	N	ON	10.0
0.472000		32.00	46.48	-14.48	N	ON	10.1
0.472000	36.76		56.48	-19.72	N	ON	10.1
0.680000		25.97	46.00	-20.03	N	ON	10.0
0.680000	30.43		56.00	-25.57	N	ON	10.0
1.636000		26.18	46.00	-19.82	N	ON	9.9
1.636000	30.42		56.00	-25.58	N	ON	9.9
2.532000		24.14	46.00	-21.86	N	ON	9.8
2.532000	27.84		56.00	-28.16	N	ON	9.8
3.980000		17.34	46.00	-28.66	N	ON	9.8
3.980000	22.47		56.00	-33.53	N	ON	9.8

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





### 2.2 RADIATED EMISSION MEASUREMENT

# 2.2.1 Limits of Radiated Emission Measurement TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBµV/m)							
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B			
30-88	39	29.5					
88-216	43.5	33.1	40	30			
216-230	46.4	35.6					
230-960	40.4	33.0	47	37			
960-1000	49.5	43.5	47	3/			
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined			
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined			

Radiated Emissions Limits at 3 meters (dBμV/m)							
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B			
30-88	49.5	40					
88-216	54	43.5	50.5	40.5			
216-230	56.9	46					
230-960	90.9	40	<i>57.5</i>	47.5			
960-1000	60	54	57.5	47.5			
1000-3000			Avg: 56	Avg: 50			
	Avg: 60	Avg: 54	Peak: 76	Peak: 70			
3000+	Peak: 80	Peak: 74	Avg: 60	Avg: 54			
			Peak: 80	Peak: 74			



Frequency Range (For unintentional radiators)

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

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

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.

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#### 2.2.2 Test Instruments

#### For frequency below 1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Amplifier	Burgeon	BPA-530	100220	Apr. 05,16	Apr. 04,17
3m Semi-anechoic Chamber	ETS-LINDGREN			Mar. 12,16	Mar. 11,18
Test software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

#### Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00062558	May 30,16	May 29,18
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Signal and					
Spectrum	Rohde&Schwarz	FSV40	101094	Apr. 05,16	Apr. 04,17
Analyzer					
Broadband	SCHWARZBECK	BBV9718	305	Mar. 09,16	Mar. 08,17
Preamplifier	OOMWARZBLOK	DD V 37 10	303	Wai. 03,10	IVIAI. 00, 17
Pre-Amplifier	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03.17
(18GHz-40GHz)				1400. 04,10	1407. 03,17
Test Software	ADT	ADT_Radiated_V	N/A	N/A	N/A
iesi Soliwale	וטו	7.6.15.9.2	N/ /\_	13/7	N/ /\

- NOTE: 1. The test was performed in 966m Chamber (a 3m Semi-anechoic chamber).
  - 2. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  - 3. The FCC Site Registration No. is 502831.

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#### 2.2.3 **Test Procedure**

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 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. The bore sight should be used during the test above 1GHz.
- 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.
- 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 and video bandwidth of test receiver/spectrum analyzer is 3MHz 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) (if the raw value not contains the amplifier);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 7. Margin value = Emission level Limit value.

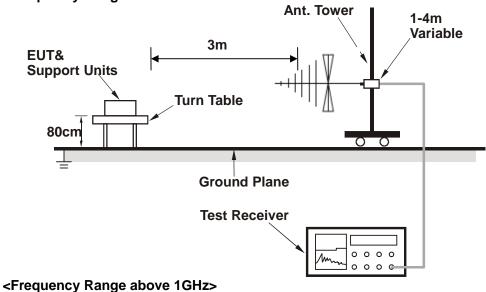
#### 2.2.4 **DEVIATION FROM TEST STANDARD**

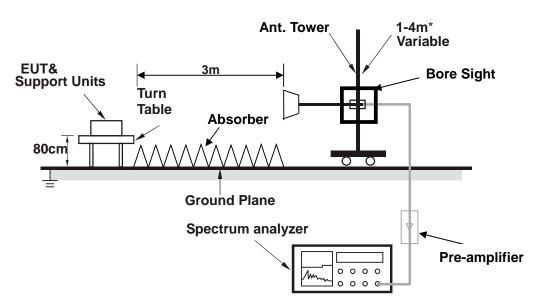
No deviation.



# 2.2.5 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.

#### 2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

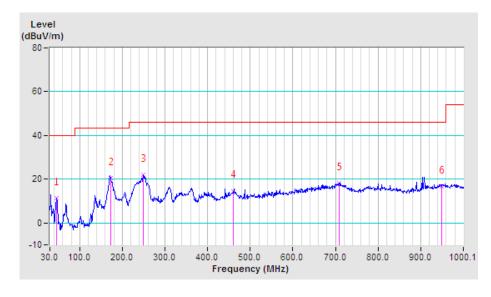


## 2.2.7 TEST RESULTS

TEST VOLTAGE	DC 12V From Adapter Input 120Vac, 50 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Alex Chen		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
	Freq.	Correction	Raw	Emission	Limit	Margin	Antenna	Table
No.	(MHz)	Factor	Value	Level	(dBuV/m)		Height	Angle
	(1011-12)	(dB/m)	(dBuV)	(dBuV/m)	(ubuv/III)	(ub)	(cm)	(Degree)
1	46.49	-33.59	44.87	11.28	40.00	-28.72	400	0
2	172.60	-29.69	50.32	20.63	43.50	-22.87	400	0
3	249.24	-26.70	48.91	22.21	46.00	-23.79	400	0
4	460.72	-20.60	35.20	14.60	46.00	-31.40	400	0
5	708.10	-14.98	33.15	18.17	46.00	-27.83	400	0
6	949.65	-14.09	30.78	16.69	46.00	-29.31	400	0

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  - 2. Negative sign (-) in the margin column signify levels below the limit.
  - 3. Frequency range scanned: 30MHz to 1000MHz.
  - 4. Only emissions significantly above equipment noise floor are reported.

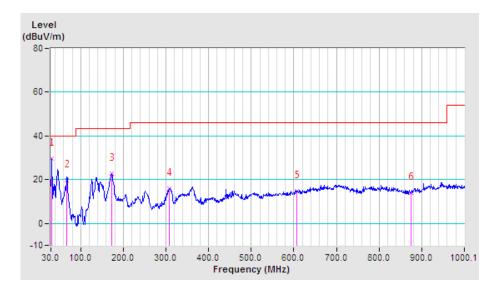




TEST VOLTAGE	DC 12V From Adapter Input 120Vac, 50 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Alex Chen		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Correction Factor	Raw Value	Emission Level	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle		
		(dB/m)	(dBuV)	(dBuV/m)			(cm)	(Degree)		
1	32.91	-26.61	56.14	29.53	40.00	-10.47	400	0		
2	66.86	-34.29	53.98	19.69	40.00	-20.31	400	0		
3	172.60	-29.69	52.32	22.63	43.50	-20.87	400	0		
4	307.45	-25.46	41.43	15.97	46.00	-30.03	400	0		
5	606.24	-17.76	32.62	14.86	46.00	-31.14	400	0		
6	874.96	-14.73	28.80	14.07	46.00	-31.93	400	0		

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  - 2. Negative sign (-) in the margin column signify levels below the limit.
  - 3. Frequency range scanned: 30MHz to 1000MHz.
  - 4. Only emissions significantly above equipment noise floor are reported.





TEST VOLTAGE	DC 12V From Adapter Input 120Vac, 50 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Alex Chen		

	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	1942 PK	-9.50	55.23	45.73	74.00	-28.27	200	78	
2	1942 AV	-9.50	44.47	34.97	54.00	-19.03	200	78	
3	3370 PK	-5.66	54.36	48.70	74.00	-25.30	200	194	
4	3370 AV	-5.66	44.59	38.93	54.00	-15.07	200	194	
5	5760 PK	2.47	55.12	57.59	74.00	-16.41	200	246	
6	5760 AV	2.47	46.06	48.53	54.00	-5.47	200	246	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M								
No.	Freq. (MHz)	Correction	Raw	Emission	Limit (dBuV/m)	Margin (dB)	Antenna	Table	
		Factor	Value	Level			Height	Angle	
		(dB/m)	(dBuV)	(dBuV/m)			(cm)	(Degree)	
1	2112 PK	-8.68	52.92	44.24	74.00	-29.76	100	360	
2	2112 AV	-8.68	44.40	35.72	54.00	-18.28	100	258	
3	3863 PK	-4.38	53.47	49.09	74.00	-24.91	100	360	
4	3863 AV	-4.38	45.52	41.14	54.00	-12.86	100	198	
5	5852 PK	3.17	54.12	57.29	74.00	-16.71	100	360	
6	5852 AV	3.17	45.86	49.03	54.00	-4.97	100	52	

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
  - 2. Negative sign (-) in the margin column signify levels below the limit.
  - 3. Frequency range scanned: 1GHz to 18GHz.
  - 4. Only emissions significantly above equipment noise floor are reported.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch



# 3 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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