



EMC TEST REPORT

Applicant:	Corporativo Lanix S.A. de C.V.
Address:	Carretera Intrnacional Hermosillo-Nogales Km 8.5, Hermosillo Sonora, Mexico

Manufacturer or Supplier	Water world
Address	6th Floor, Kingson Building, New Energy Innovation Industrial Park, No.1 ChuangSheng Road, Nanshan District, Shenzhen, P.R. China
Product	smartphone
Brand Name	LANIX
Model Name	Ilium X260
FCC ID	ZC4X260
Date of tests	Oct. 27, 2016 ~ Nov. 03, 2016

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

ANSI C63.4:2014

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

Issued by Eric Shi Engineer / Mobile Department	Approved by Bill Yao Manager / Mobile Department
6MZ	Lugions
Date: Nov. 04, 2016	Date: Nov. 04, 2016

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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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Table of Contents

RELEASE	CONTROL RECORD	3
1 GENE	RAL INFORMATION	4
1.1 GI	ENERAL DESCRIPTION OF EUT	Δ
	JMMARY OF TEST RESULTS	
	EASUREMENT UNCERTAINTY	
	ESCRIPTION OF TEST MODES	
	ESCRIPTION OF SUPPORT UNITS	
	ONFIGURATION OF SYSTEM UNDER TEST	
2 EMISS	SION TEST	11
	NDUCTED EMISSION MEASUREMENT	
2.1.001	LIMITS OF CONDUCTED EMISSION MEASUREMENT	 11
2.1.2	TEST INSTRUMENTS	
2.1.3	TEST PROCEDURES	
2.1.4	DEVIATION FROM TEST STANDARD	
2.1.5	TEST SETUP	
2.1.6	EUT OPERATING CONDITIONS	
2.1.7	TEST RESULTS	
2.2 R/	ADIATED EMISSION MEASUREMENT	. 16
2.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	
2.2.2	TEST INSTRUMENTS	
2.2.3	TEST PROCEDURE	
2.2.4	DEVIATION FROM TEST STANDARD	
2.2.5	TEST SETUP	. 20
2.2.6	EUT OPERATING CONDITIONS	
2.2.7	TEST RESULTS	. 21
3 APPE	NDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT	Γ 25

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV161026W004	Original release	Nov. 04, 2016

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1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	smartphone		
MODEL NAME	Ilium X260		
NOMINAL VOLTAGE	5.0Vdc (adapter or host equipment) 3.8Vdc (Li-ion, battery)		
BATTERY	Brand Name: LANIX Model Name: Ilium X260-BAT Power Rating: DC 4.2V, 1500mAh, Li-ion		
	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
MODULATION TYPE	Bluetooth	GFSK, π/4-DQPSK, 8DPSK	
	GSM	GMSK, 8PSK	
	WCDMA	BPSK/QPSK	
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20)	
	Bluetooth	2402MHz ~ 2480MHz	
OPERATING FREQUENCY	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR PCS 1900)	
	WCDMA	1852.4MHz ~ 1907.6MHz (FOR WCDMA Band2) 826.4MHz ~ 846.6MHz (FOR WCDMA Band5)	
HW VERSION	FS072-03L-SS-M		
SW VERSION	Ilium X260_TELCEL_SW_01_V07		
I/O PORTS	Refer to user's manual		
CABLE	USB cable: non-shielded, detachable, 0.8m Earphone cable: non-shielded, detachable, 1.2m		
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.

The EUT was powered by the following adapter:

ADAPTER	
BRAND:	LANIX
MODEL:	Ilium X260
INPUT:	AC 100-240V, 150mA
OUTPUT:	DC 5V, 500mA

3. The EUT matched the following USB cable and Earphone:

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USB CABLE	
BRAND:	NA
MODEL:	Ilium X260
SIGNAL LINE:	0.8 METER

EARPHONE	
BRAND:	NA
MODEL:	Ilium X260
SIGNAL LINE:	1.2 METER

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

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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,	Conducted Test	PASS	Meets limits minimum passing margin is 8.71dB at 0.496000MHz. Meets Class B Limit	
Subpart B, Class B ANSI C63.4:2014	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Minimum passing margin is -0.70dB at 135.20MHz	
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -14.03dB at 2547MHz	

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 envisere	30MHz ~ 1GHz	+/-4.06dB
Radiated emissions	1GHz ~ 18GHz	+/-4.58dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition		
	Radiated emission test		
1	GSM850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ FM Rx		
2	GSM1900 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Mpeg4		
3	WCDMA850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Back camera on		
4	WCDMA1900 Idle+ USB Link+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Front camera on		
	Conducted emission test		
1	GSM850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ FM Rx		
2	GSM1900 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Mpeg4		
3	WCDMA850 Idle+ Adapter+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Back camera on		
4	WCDMA1900 Idle+ USB Link+ Earphone+ USB cable+ BT Idle+ WIFI Idle(2.4G)+ GPS Rx+ Front camera on		

NOTE:

- 1. For conducted emission test, test mode 3 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 4 was the worst case and only this mode was presented in this report.

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1.5 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.

FOR EMISSION TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Wireless AP	ABOCOM	WR224GR	060500749P	D43064
2	Notebook	DELL	E6420	9H12FS1	N/A
3	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A
4	Mouse	DELL	M056UOA	01688082	N/A

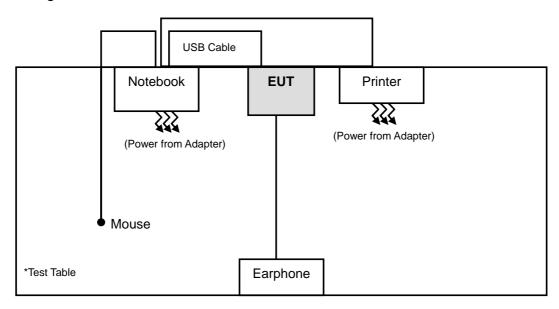
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	DC Line: Unshielded, Undetachable, 2.0m
3	USB Line: Shielded, Detachable 1.5m;
4	USB Line: Unshielded, Undetachable 1.8m;

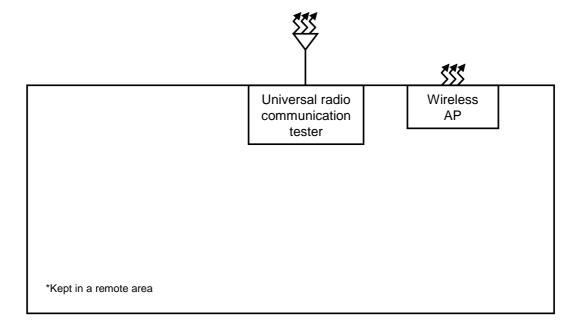
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1.6 CONFIGURATION OF SYSTEM UNDER TEST

Test configuration 1

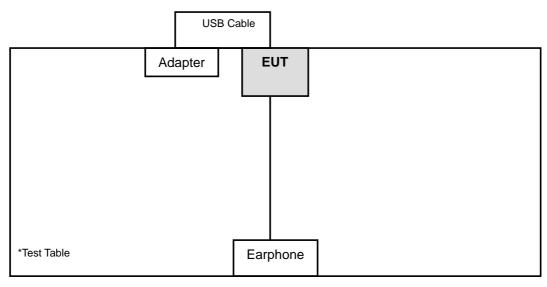


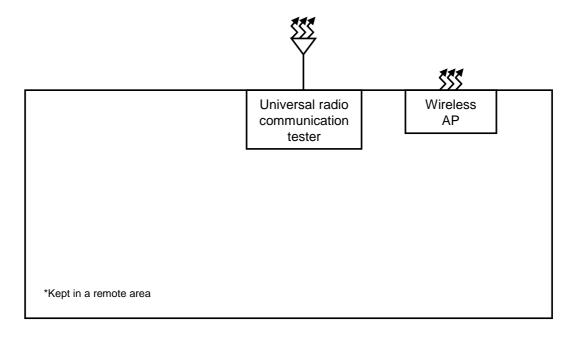


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Test configuration 2





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EMISSION TEST

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	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.

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.

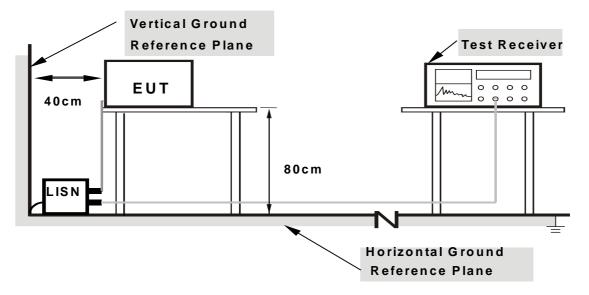
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



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.



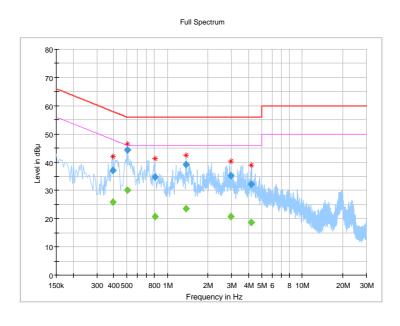
2.1.7 TEST RESULTS

TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Eric

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.396000		25.78	47.94	22.16	L	ON	9.7
0.396000	37.11		57.94	20.83	L	ON	9.7
0.504000		30.19	46.00	15.81	L	ON	9.7
0.504000	44.34		56.00	11.66	L	ON	9.7
0.808000		20.74	46.00	25.26	L	ON	9.7
0.808000	34.71		56.00	21.29	L	ON	9.7
1.368000		23.48	46.00	22.52	L	ON	9.7
1.368000	39.18		56.00	16.82	L	ON	9.7
2.950000		20.70	46.00	25.30	L	ON	9.7
2.950000	35.11		56.00	20.89	L	ON	9.7
4.168000		18.55	46.00	27.45	L	ON	9.7
4.168000	32.17		56.00	23.83	L	ON	9.7

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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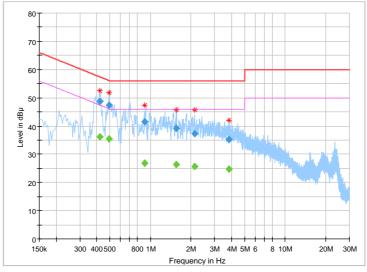
TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55RH	TESTED BY	Eric

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.420000		36.21	47.45	11.24	N	ON	10.1
0.420000	48.71		57.45	8.74	N	ON	10.1
0.496000		35.43	46.07	10.64	N	ON	10.1
0.496000	47.36		56.07	8.71	N	ON	10.1
0.908000		26.88	46.00	19.12	N	ON	9.9
0.908000	41.49		56.00	14.51	N	ON	9.9
1.564000		26.45	46.00	19.55	N	ON	9.9
1.564000	39.30		56.00	16.70	N	ON	9.9
2.136000		25.64	46.00	20.36	N	ON	9.8
2.136000	37.25		56.00	18.75	N	ON	9.8
3.840000		24.62	46.00	21.38	N	ON	9.8
3.840000	35.16		56.00	20.84	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.





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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	33.6	47	37			
960-1000	49.5	43.5	47	31			
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	57.5	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 Peak: 80	Avg: 54 Peak: 74			

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.

Page 16 of 25

4. QP detector shall be applied if not specified.

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Report Version 1



Test Instruments

Frequency range below 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	100962	Mar. 04,16	Mar. 03,17
EMI Test Receiver	Rohde&Schwarz	ESCI	101418	Mar. 04,16	Mar. 03,17
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Nov. 20, 15	Nov. 19, 16
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Dec. 30, 15	Dec. 29, 16
Signal Amplifier	Agilent	8447D	2944A10488	Jun. 25,16	Jun. 24,17
Signal Amplifier	Agilent	8447D	2944A11174	Jun. 25,16	Jun. 24,17
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8 .8m	NSEMC006	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated _V8.7.x	N/A	N/A	N/A

For frequency above 1G

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 Analyzer	Rohde&Schwarz	FSV40	101094	Apr. 05,16	Apr. 04,17
Broadband Preamplifier	SCHWARZBECK	BBV9718	305	Mar. 09,16	Mar. 08,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 11,15	Nov. 10,16
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTE: 1. The test was performed in 10m Semi-anechoic Chamber and 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

<Frequency Range below 1GHz>

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 10 meter 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 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 1 meter to 4 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 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic 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 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 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.
- 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.

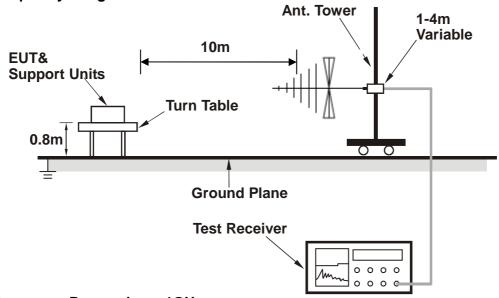
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

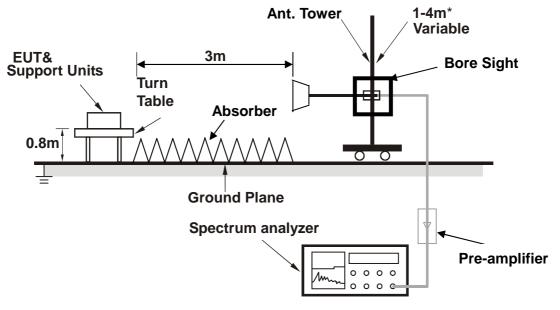


Test Setup 2.2.5

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

EUT OPERATING CONDITIONS

Same as item 2.1.6.

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Page 20 of 25

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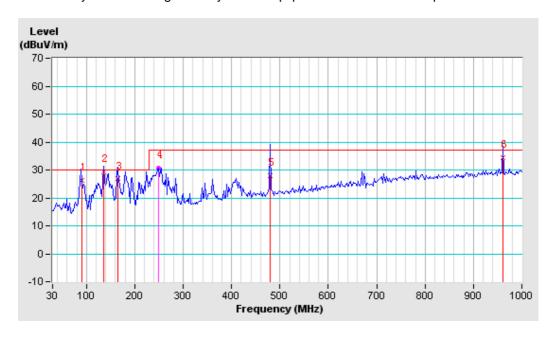
2.2.7 TEST RESULTS

TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Wang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M										
	Freq.	Correction		Emission	Limit	Margin	Antenna	Table			
No.	(MHz)	Factor	Value	Level (dBuV/m)		(dB)	Height	Angle			
	(1011 12)	(dB/m)		(dBuV/m)		(db)	(cm)	(Degree)			
1	90.18	-14.54	40.94	26.40	30.00	-3.60	400	187			
2	135.20	-10.75	40.05	29.30	30.00	-0.70	400	56			
3	165.31	-8.63	35.48	26.85	30.00	-3.15	400	157			
4	249.22	-8.30	38.90	30.60	37.00	-6.40	400	106			
5	480.08	-3.30	31.30	28.00	37.00	-9.00	400	75			
6	960.45	6.02	28.38	34.40	37.00	-2.60	400	43			

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.



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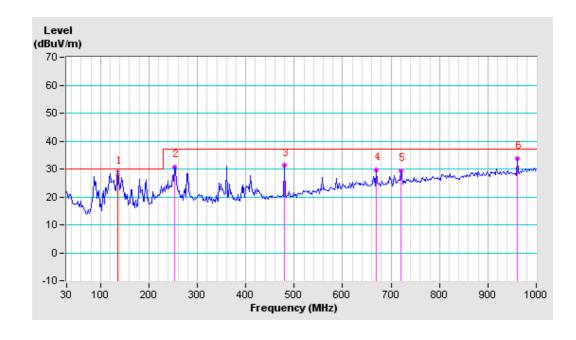


TEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	20deg. C, 58 %RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Wang		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M											
	Freq.	-reg Correction		Emission Limit		Margin	Antenna	Table				
No.	(MHz)	Factor	Value	Level	Level (dBuV/m)		Height	Angle				
	(IVIIIZ)	(dB/m)	dB/m) (dBuV) (dE		(ubuv/III)	(dB)	(cm)	(Degree)				
1	135.20	-10.00	38.50	28.50	30.00	-1.50	100	268				
2	253.10	-8.91	39.64	30.73	37.00	-6.27	100	60				
3	480.08	-3.60	34.85	31.25	37.00	-5.75	300	297				
4	670.20	0.92	28.68	29.60	37.00	-7.40	300	108				
5	720.64	2.09	27.36	29.45	37.00	-7.55	300	58				
6	961.20	6.25	27.45	33.70	37.00	-3.30	300	170				

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.



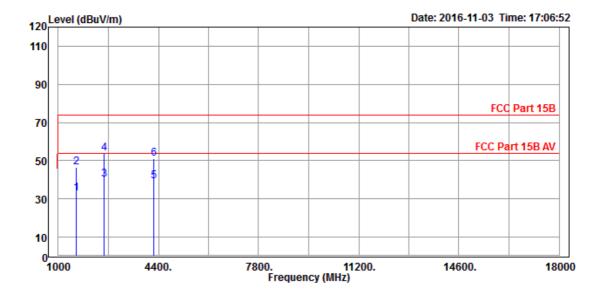
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LIEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony Zou		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1595	32.68	45.20	54.00	-21.32	29.31	6.53	48.36	100	36	Average
1595	46.72	59.24	74.00	-27.28	29.31	6.53	48.36	100	36	Peak
2547	39.97	47.39	54.00	-14.03	32.45	8.43	48.30	100	148	Average
2547	54.04	61.46	74.00	-19.96	32.45	8.43	48.30	100	148	Peak
4230	39.24	42.77	54.00	-14.76	34.03	11.10	48.66	100	240	Average
4230	51.22	54.75	74.00	-22.78	34.03	11.10	48.66	100	240	Peak

- **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.



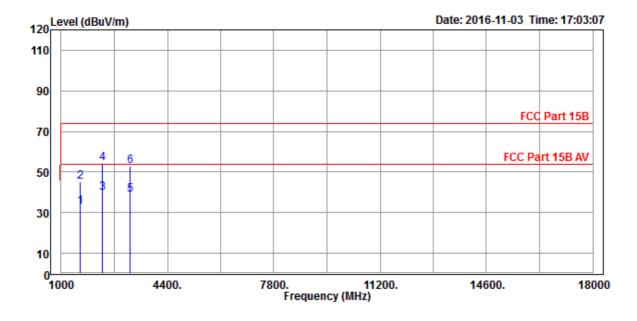
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LIEST VOLTAGE	DC 5V From Adapter Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony Zou		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1595	32.69	45.21	54.00	-21.31	29.31	6.53	48.36	100	45	Average
1595	45.29	57.81	74.00	-28.71	29.31	6.53	48.36	100	45	Peak
2326	39.63	47.68	54.00	-14.37	32.23	8.04	48.32	100	120	Average
2326	54.35	62.40	74.00	-19.65	32.23	8.04	48.32	100	120	Peak
3193	38.89	44.81	54.00	-15.11	32.94	9.50	48.36	100	256	Average
3193	53.02	58.94	74.00	-20.98	32.94	9.50	48.36	100	256	Peak

- **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.



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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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