





# **FCC Part 15B TEST REPORT**

Report No: STS1807042E01

Issued for

Shanghai Unihertz E-Commerce Co., Ltd

Room 302, No. 5, Lane 59, Shennan Rd, Minhang district, Shanghai, China 201108

Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	Atom
Series Model:	N/A
FCC ID:	2AK6CATOM
Test Standard:	FCC Part 15B

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# **TEST RESULT CERTIFICATION**

Applicant's Name	Shanghai Unihertz E-Commerce Co., Ltd

Room 302, No. 5, Lane 59, Shennan Rd, Minhang district,

Shanghai, China 201108

Manufacture's Name ............. OBLUE Communication Technology Co., Ltd.

Industry Park, Nanshan district, shenzhen, China 201108

Report No.: STS1807042E01

**Product Description** 

Product Name ...... Smart phone

Brand Name...... Unihertz

Model Name ..... Atom

Series Model ...... N/A

Standards..... FCC Part 15B

Test procedure ...... ANSI C63.4-2014

This device described above has been tested by STS, 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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Date of Test.....

Date of Performance of Tests .... 18 July. 2018~30 July. 2018

Date of Issue ...... 31 July. 2018

Test Result ...... Pass

Testing Engineer :

(Barry Li)

Technical Manager :

Authorized Signatory:

(Chopin Xiao)

(Vita Li)

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# **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	31 July. 2018	STS1807042E01	ALL	Initial Issue







#### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION					
Standard	Item	Result	Remarks		
FCC 47 CFD Dowl 45 Cultiport D	Conducted Emission	PASS	Meet Class B limit		
FCC 47 CFR Part 15 Subpart B	Radiated Emission	PASS	Meet Class B limit		

#### NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

### 1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address:	1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China	
Telephone:	+86-755 3688 6288	
Fax:	+86-755 3688 6277	
Degistration No.	CNAS Registration No.: L7649; FCC Registration No.: 625569	
Registration No.:	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;	

#### 1.2 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 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.73dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.92dB
6	All emissions,radiated(>1G)	±3.31dB





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Product Name	Smart phone		
Brand Name	Unihertz		
Model Name	Atom		
Series Model	N/A		
Model Difference	N/A		
Test Sample Number	180718018	3	
	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz	
	WCDMA	Band II: 1852.4~1907.6MHz  Band V: 826.4~846.6MHz  Band IV: 1712.4~1752.6MHz	
Frequency Bands		Band 2: 1850.7~1909.3MHz Band 4: 1710.7~1754.3MHz Band 5: 824.7~848.3MHz Band 7: 2502.5~2567.5MHz	
	LTE	Band 12: 699.7~715.3MHz Band 13: 779.5~784.5MHz Band 17: 706.5~713.5MHz Band 25: 1850.7~1914.3MHz Band 26: 814.7~848.3MHz Band 41: 2496~2690MHz	
	WLAN	2.4 GHz IEEE 802.11b/g/n(HT20/40):2412~2462MHz 5GHz IEEE 802.11a/n (20MHz): 5180 MHz to 5700MHz 5GHz IEEE 802.11n (40MHz):5190 MHz to 5670MHz 5GHz IEEE 802.11a/n (20MHz): 5745 MHz to 5825MHz 5GHz IEEE 802.11n (40MHz):5755 MHz to 5795MHz	
	Bluetooth	2402~2480MHz	
	NFC	13.56MHz	
	FM	87.5 MHz to 108 MHz	
Modulation Mode	GSM	GMSK for GPRS; GMSK and 8PSK for EDGE	



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	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK	
	LTE	QPSK/16QAM;	
		2.4 GHz: 802.11b(DSSS):CCK,DQPSK,DBPSK	
	WLAN	802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM	
		802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	
		5GHz: DBPSK/DAPSK/16QAM/64QAM/256QAM	
		BT(1Mbps): GFSK	
	Bluetooth	BT EDR(2Mbps): π/4-DQPSK	
		BT EDR(3Mbps): 8DPSK	
	BLE	GFSK	
	NFC	FSK	
	FM	FM	
Adapter	Input: AC100-240V, 300mA, 50/60Hz Output: DC 5V, 1500mA Rated Voltage: 3.85V		
Battery	Capacity: 2000mAh		
	Charge Limit: 4.4V		
Hardware Version Number	G35_V1.2		
Software Version Number	alps-mp-01.mp1		

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



#### 2.2 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 port communication with PC

For Conducted Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

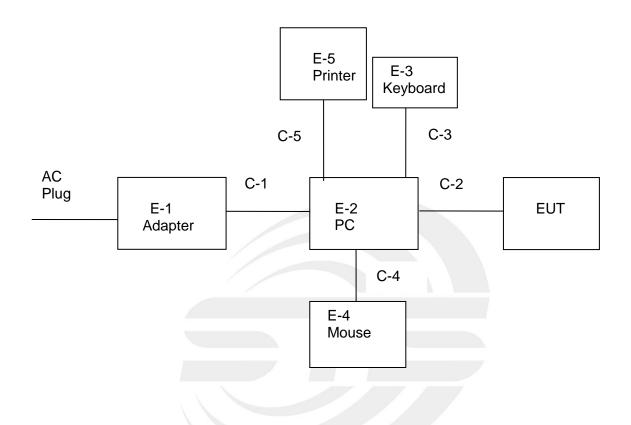
For Radiated Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

#### NOTE:

- 1. The test modes were carried out for all operation modes. Only worst case will be show in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz) for which the device is capable of operation.



#### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





#### 2.4 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.

Item	Equipment	Mfr/Brand	Model/Type No.
E-1	Adapter	HP	HSTNN-CA15
E-2	PC	HP	500-320cx
E-3	Keyboard	HP	PR1101U
E-4	Mouse	MOTOSPEED	F66
E-5	Printer	HP	HP1020

Item	Shielded Type	Ferrite Core	Length
C-1	Unshielded	NO	90cm
C-2	USB Cable (FTP)	NO	98cm
C-3	USB Cable (FTP)	NO	100cm
C-4	USB Cable (FTP)	NO	107cm
C-5	USB Cable (FTP)	NO	110cm

#### 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 <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.



# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

# Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	102086	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	SCHWARZBE CK	BBHA 9120D	1343	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	E4407B	MY50140340	2018.03.08	2019.03.07
Pre-mplifier(1G-18 G)	Agilent	8449B	60538	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.03.08	2019.03.07
Pre-mplifier(0.1M-3 GHz)	EM	EM330	1	2018.03.11	2019.03.10

# Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	23625	2017.10.15	2018.10.14
Absorbing Clamp	R&S	MDS-21	100668	2017.10.19	2018.10.18



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Clas	ss A	Class B		
	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 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP

Vertical Reference
Ground Plane

EUT

80cm

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

#### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Horizontal Reference

**Ground Plane** 



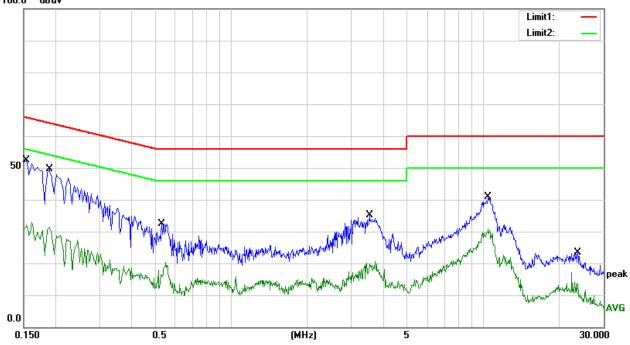
#### 3.1.6 TEST RESULTS

Temperature:	26.7 ℃	Relative Humidity:	65%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	42.58	9.79	52.37	65.78	-13.41	QP
2	0.1540	23.04	9.79	32.83	55.78	-22.95	AVG
3	0.1900	39.73	9.78	49.51	64.04	-14.53	QP
4	0.1900	21.47	9.78	31.25	54.04	-22.79	AVG
5	0.5300	22.34	10.00	32.34	56.00	-23.66	QP
6	0.5300	10.32	10.00	20.32	46.00	-25.68	AVG
7	3.5300	25.34	9.82	35.16	56.00	-20.84	QP
8	3.5300	10.87	9.82	20.69	46.00	-25.31	AVG
9	10.4980	30.55	10.21	40.76	60.00	-19.24	QP
10	10.4980	20.77	10.21	30.98	50.00	-19.02	AVG
11	23.7540	13.18	10.23	23.41	60.00	-36.59	QP
12	23.7540	3.43	10.23	13.66	50.00	-36.34	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain 100.0 dBuV





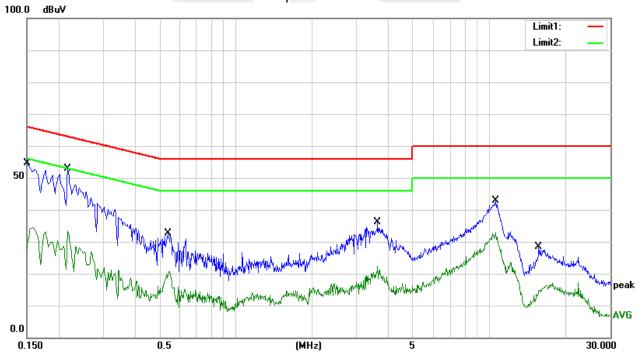
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Temperature:	26.7℃	Relative Humidity:	65%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	44.78	9.79	54.57	66.00	-11.43	QP
2	0.1500	24.68	9.79	34.47	56.00	-21.53	AVG
3	0.2180	43.07	9.86	52.93	62.89	-9.96	QP
4	0.2180	23.59	9.86	33.45	52.89	-19.44	AVG
5	0.5420	22.74	9.99	32.73	56.00	-23.27	QP
6	0.5420	10.60	9.99	20.59	46.00	-25.41	AVG
7	3.6260	26.43	9.82	36.25	56.00	-19.75	QP
8	3.6260	12.49	9.82	22.31	46.00	-23.69	AVG
9	10.5780	32.74	10.21	42.95	60.00	-17.05	QP
10	10.5780	22.59	10.21	32.80	50.00	-17.20	AVG
11	15.7100	18.08	10.27	28.35	60.00	-31.65	QP
12	15.7100	6.81	10.27	17.08	50.00	-32.92	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Note: The test voltage is 100-240V, both of which have assessment tests, and the worst test data is in the report.



#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (d	BuV/m) (at 3M)	dBuV/m) (at 3M)	
FREQUENCT (IVII12)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

#### Note:

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

# FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper			
frequency of measurement used in the device	Range (MHz)		
or on which the device operates or tunes	Narige (Miriz)		
(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,		
Above 1000	whichever is lower		



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Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	5th harmonic (Peak/AV)
RB / VB (emission in restricted	30MHz to 1000MHz: 100 KHz / 300 KHz
band)	Above 1000MHz: 1 MHz / 3 MHz

Receiver Parameter	Setting			
Attenuation	Auto			
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz			
	Above 1000MHz: 1 MHz / 3 MHz			

#### 3.2.2 TEST PROCEDURE

- 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 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 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

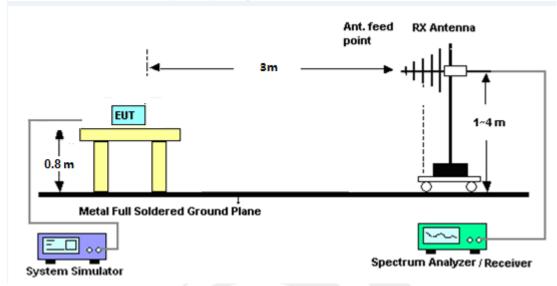
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

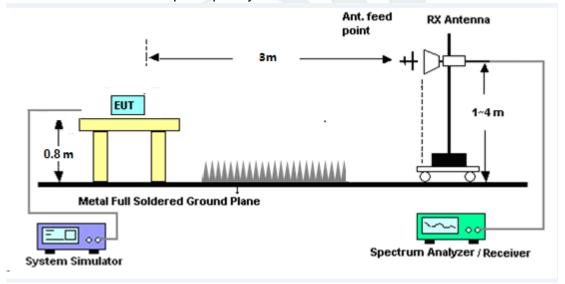


#### 3.2.4 TEST SETUP

# (A) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



#### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





#### 3.2.6 TEST RESULTS

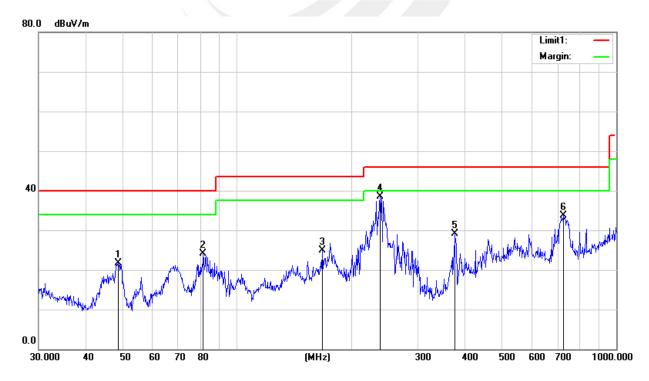
# 30MHz -1000MHz

Temperature:	<b>27.1</b> ℃	Relative Humidity:	59%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.6720	42.52	2 -20.80 21.72		40.00	-18.28	QP
2	81.4970	46.39	-22.31	24.08	40.00	-15.92	QP
3	167.8241	44.07	-19.15	24.92	43.50	-18.58	QP
4	238.3102	56.39	-17.88	38.51	46.00	-7.49	QP
5	375.9384	41.77	-12.73	29.04	46.00	-16.96	QP
6	724.2611	38.11	-4.40	33.71	46.00	-12.29	QP

#### Remark:

- 1. Margin = Result (Result = Reading + Factor )—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain





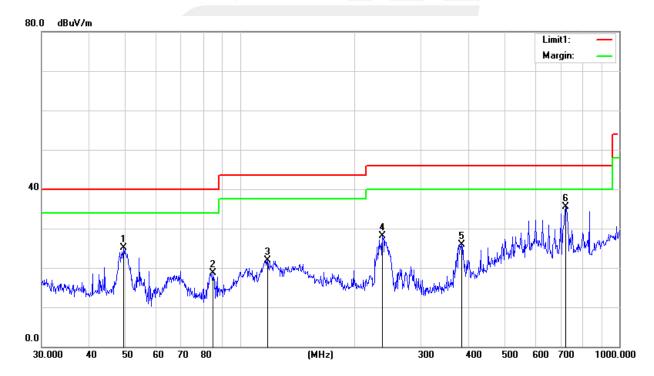
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Temperature:	<b>27.1</b> ℃	Relative Humidity:	59%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.3594	46.30	46.30 -21.15		40.00	-14.85	QP
2	84.9993	40.09	-21.45	18.64 40.00		-21.36	QP
3	118.1860	39.80	-17.81	21.99	43.50	-21.51	QP
4	237.4760	45.99	-17.94	28.05	46.00	-17.95	QP
5	383.9318	38.17	-12.35	25.82	46.00	-20.18	QP
6	721.7260	40.06	-4.54	35.52	46.00	-10.48	QP

#### Remark:

- 1. Margin = Result (Result = Reading + Factor )—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain



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# (1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Phase:	Vertical/Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

# PΚ

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna Factor	Orrected Factor	Actual Fs	Peak	Peak
(MHz)	H/V	Reading (dBuV)	(dB)	(dB)	(dB/m)	(dB)	Peak (dBuV/m)	Limit (dBuV/m)	margin (dB)
2512.69	Н	57.46	43.80	5.40	25.90	-12.50	69.96	74.00	-4.04
2457.45	Н	48.65	44.40	6.00	27.60	-10.80	59.45	74.00	-14.55
3456.65	Н	56.23	44.70	6.70	28.20	-9.80	66.03	74.00	-7.97
4658.47	Н	47.15	44.30	8.42	30.40	-5.48	52.63	74.00	-21.37
2512.69	V	58.02	43.80	5.40	25.90	-12.50	70.52	74.00	-3.48
2457.45	V	49.65	44.40	6.00	27.60	-10.80	60.45	74.00	-13.55
3456.65	V	57.45	44.70	6.70	28.20	-9.80	67.25	74.00	-6.75
4658.47	V	48.63	44.30	8.42	30.40	-5.48	54.11	74.00	-19.89
5845.74	V	43.65	44.20	9.70	32.00	-2.50	46.15	74.00	-27.85

# AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor		AV	AV
(MHz)	H/V	Reading (dBuV)	(dB)	(dB)	(dB/m)	(dB)	AV (dBuV/m)	Limit (dBuV/m)	margin (dB)
2512.69	Н	38.06	43.80	5.40	25.90	-12.50	50.56	54.00	-3.44
2457.45	Н	29.65	44.40	6.00	27.60	-10.80	40.45	54.00	-13.55
3456.65	Н	37.42	44.70	6.70	28.20	-9.80	47.22	54.00	-6.78
4658.47	Н	28.56	44.30	8.42	30.40	-5.48	34.04	54.00	-19.96
2512.69	V	36.59	43.80	5.40	25.90	-12.50	49.09	54.00	-4.91
2457.45	V	27.52	44.40	6.00	27.60	-10.80	38.32	54.00	-15.68
3456.65	V	35.33	44.70	6.70	28.20	-9.80	45.13	54.00	-8.87
4658.47	V	26.29	44.30	8.42	30.40	-5.48	31.77	54.00	-22.23
5845.74	V	22.10	44.20	9.70	32.00	-2.50	24.60	54.00	-29.40



#### Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 3. The frequency that above 6GHz is mainly from the environment noise.

\* \* \* \* \* END OF THE REPORT \* \* \* \*

