





FCC Part 15B TEST REPORT

Report No: STS1801196E01

Issued for

DaFaith Trading, LLC

12934 Hideaway Lane, San Diego, California, United States

Product Name:	Smart phone
Brand Name:	NEOIX
Model Name:	BRISA II
Series Model:	S402RG, S402GD, S402BK
FCC ID:	2ALWUBRISAII
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION

Applicant's name...... DaFaith Trading, LLC

Manufacture's Name Shenzhen Hexiang Enterprises Limited

Road, Nanshan District, Shenzhen, 518052 China

Product description

Product name...... Smart phone

Brand name...... NEOIX

Model Name BRISA II

Series Model \$402RG, \$402GD, \$402BK

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 17 Jan. 2018~19 Jan. 2018

Date of Issue 20 Jan. 2018

Test Result Pass

Testing Engineer

(Kyle Rao)

Technical Manager :

Authorized Signatory:

(Chopin Xiao)

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	20 Jan. 2018	STS1801196E01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard	Item Result		Remarks
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit
FOC 47 OFK FAIL 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	
Registration No.:	CNAS Registration No.: L7649; FCC Registration No.: 625569	
	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 % ,

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	NEOIX	NEOIX		
Model Name	BRISA II			
Series Model	S402RG, S40)2GD, S402BK		
Model Difference	same model i	n different colors		
	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz		
	WCDMA	Band II: 1852.4~1907.6MHz Band V: 826.4~846.6MHz		
Frequency Bands	WLAN	802.11b/g/n(HT20):2412~2462MHz		
	Bluetooth	2402~2480MHz		
	GSM	GMSK for GPRS		
	WCDMA	QPSK		
Modulation Mode	WLAN	CCK/OFDM/DBPSK/DAPSK		
	Bluetooth	BT(1Mbps): GFSK		
Adapter	Input: AC 100-240V, 0.15A, 50/60Hz Output: DC 5.0V, 1000 mA			
	Rated Voltage: 3.7V Capacity: 1000mAh			
Battery				
	Charge Limit: 4.2V			
Hardware version number	C5-V1.1			
Software version number	C5_72KK_KK_3GW_B25_EMMC_32_4_WVGA_JKS_L1_J_ BRISA 20180113.151941			

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	

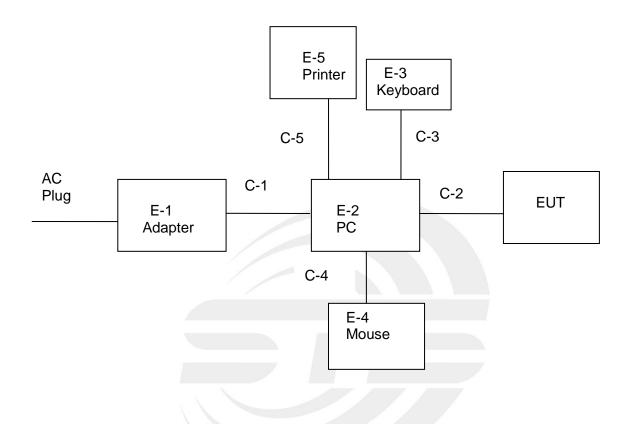
For Radiated Test		
Final Test Mode Description		
Mode 1	USB port communication with PC	

NOTE:

- 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.	Note
E-1	Adapter	NEOIX	S402	EUT
E-2	PC	4CV428DQXR	500-320cx	Auxiliary equipment
E-3	Keyboard	HP	PR1101U	Auxiliary equipment
E-4	Mouse	MOTOSPEED	F66	Auxiliary equipment
E-5	Printer	HP	HP1020	Auxiliary equipment

	/ /			
Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	85cm	Auxiliary equipment
C-2	USB Cable (FTP)	NO	90cm	Auxiliary equipment
C-3	USB Cable (FTP)	NO	95cm	Auxiliary equipment
C-4	USB Cable (FTP)	NO	100cm	Auxiliary equipment
C-5	USB Cable (FTP)	NO	105cm	Auxiliary equipment

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	101427	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.10.30	2018.10.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D(1201)	9120D-1343	2017.10.27	2018.10.26
Power Amplifier	Agilent	8449B	60538	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Pre-mplifier(1G-18 G)	Agilent	8449B	60538	2017.10.28	2018.10.27
Spectrum Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Pre-mplifier(0.1M-3 GHz)	EM	EM330	60538	2017.03.12	2018.03.11

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

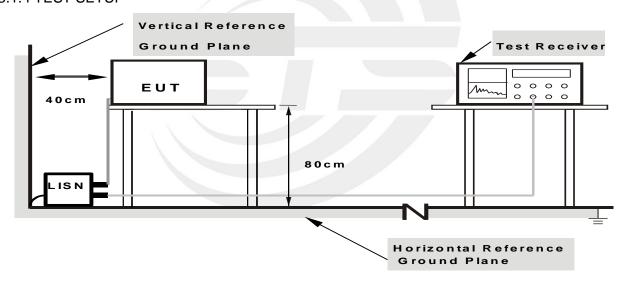
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

- a. 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.
 - I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the
- c. 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



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.



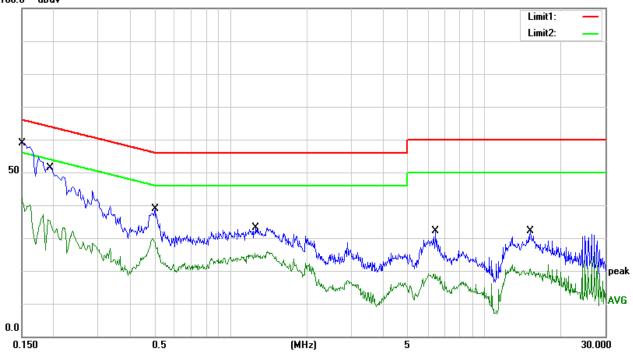
3.1.6 TEST RESULTS

Temperature:	23.5 ℃	Relative Humidity:	59%
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	0.1500	49.20	9.79	58.99	66.00	-7.01	QP
2	0.1500	32.42	9.79	42.21	56.00	-13.79	AVG
3	0.1965	41.25	9.78	51.03	63.76	-12.73	QP
4	0.1965	23.80	9.78	33.58	53.76	-20.18	AVG
5	0.5020	28.85	10.03	38.88	56.00	-17.12	QP
6	0.5020	17.78	10.02	27.80	46.00	-18.20	AVG
7	1.2620	23.40	9.79	33.19	56.00	-22.81	QP
8	1.2620	14.44	9.79	24.23	46.00	-21.77	AVG
9	6.4260	22.37	9.87	32.24	60.00	-27.76	QP
10	6.4260	9.02	9.87	18.89	50.00	-31.11	AVG
11	15.1940	21.87	10.25	32.12	60.00	-27.88	QP
12	15.1940	10.29	10.25	20.54	50.00	-29.46	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



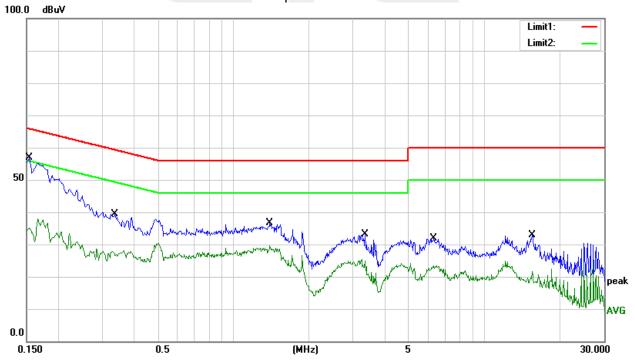
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Temperature:	23.5℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	47.09	9.76	56.85	65.78	-8.93	QP
2	0.1540	25.35	9.76	35.11	55.78	-20.67	AVG
3	0.3380	29.19	10.19	39.38	59.25	-19.87	QP
4	0.3380	16.49	10.19	26.68	49.25	-22.57	AVG
5	1.4020	26.91	9.83	36.74	56.00	-19.26	QP
6	1.4020	19.81	9.83	29.64	46.00	-16.36	AVG
7	3.3460	23.16	9.92	33.08	56.00	-22.92	QP
8	3.3460	14.99	9.92	24.91	46.00	-21.09	AVG
9	6.3180	22.01	9.90	31.91	60.00	-28.09	QP
10	6.3180	13.16	9.90	23.06	50.00	-26.94	AVG
11	15.5300	22.69	10.12	32.81	60.00	-27.19	QP
12	15.5300	11.43	10.12	21.55	50.00	-28.45	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)	Class B (dBuV/m) (at 3M)		
		AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Note:

- (1) The limit for radiated test was performed according to 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	ixarige (ivii iz)
(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)
DD ///D (aminains in matriated bond)	30MHz to 1000MHz: 100 KHz / 300 KHz
RB / VB (emission in restricted 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 measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- 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

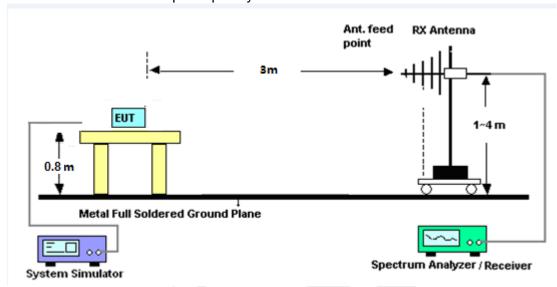
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

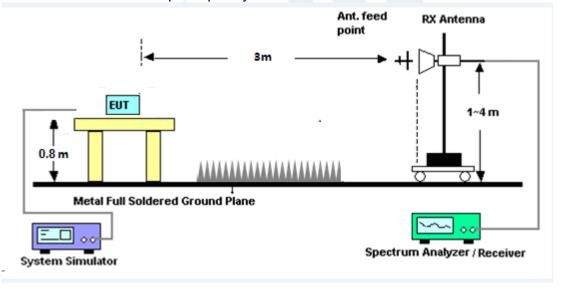


3.2.4 TEST SETUP

(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

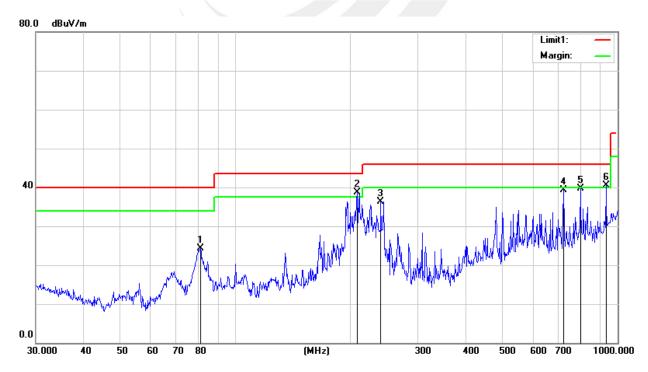
30MHz -1000MHz

Temperature:	24.6 ℃	Relative Humidity:	58%
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	80.9275	46.78	-22.47	24.31	40.00	-15.69	QP
2	208.5803	58.47	-19.81	38.66	43.50	-4.84	QP
3	239.9873	54.15	-17.76	36.39	46.00	-9.61	QP
4	721.7260	43.78	-4.54	39.24	46.00	-6.76	QP
5	798.9797	43.06	-3.45	39.61	46.00	-6.39	QP
6	932.2715	41.61	-1.05	40.56	46.00	-5.44	QP

Remark:

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





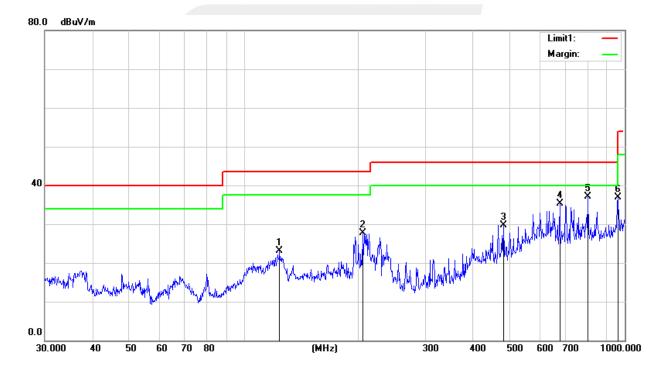
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Temperature:	24.5 ℃	Relative Humidity:	58%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	124.1330	40.76	-17.64	23.12	43.50	-20.38	QP
2	204.9551	47.74	-19.96	27.78	43.50	-15.72	QP
3	480.5276	39.08	-9.38	29.70	46.00	-16.30	QP
4	675.2080	41.09	-5.87	35.22	46.00	-10.78	QP
5	801.7863	40.64	-3.49	37.15	46.00	-8.85	QP
6	958.7943	37.10	-0.16	36.94	46.00	-9.06	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)
2005.32	Н	58.26	43.81	4.36	25.93	-12.54	44.74	74.00	-29.26
2508.61	Н	50.24	44.47	6.32	27.64	-10.81	39.73	74.00	-34.27
3000.42	Н	52.58	44.78	6.71	28.22	-9.82	42.73	74.00	-31.27
4400.87	Н	53.67	44.35	8.42	30.44	-5.48	48.18	74.00	-25.82
2005.34	V	58.41	43.81	4.36	25.95	-12.54	44.91	74.00	-29.09
2508.61	V	53.87	44.47	6.32	27.69	-10.83	43.41	74.00	-30.59
3000.43	V	53.33	44.78	6.71	28.26	-9.85	43.52	74.00	-30.48
4400.86	V	51.22	44.35	8.42	30.45	-5.48	45.74	74.00	-28.26
5506.84	V	35.26	44.21	9.35	32.23	-2.59	32.63	74.00	-41.37

AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor		AV	AV
(NALL=)	1107	Reading	(dD)	(dD)	(ID /)	(dD)	AV	Limit	margin
(MHz)	H/V	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
1403.35	Н	46.32	43.81	4.36	25.11	-16.00	31.98	54.00	-22.02
3000.76	Н	48.47	44.47	6.32	28.26	-9.80	38.58	54.00	-15.42
4002.47	Н	51.29	44.78	6.71	29.74	-6.60	42.96	54.00	-11.04
5506.84	Н	47.42	44.35	8.42	32.32	-2.50	43.81	54.00	-10.19
1403.35	V	38.26	43.81	4.36	25.15	-16.00	23.96	54.00	-30.04
2508.61	V	55.27	44.47	6.32	27.69	-10.83	44.81	54.00	-9.19
3000.76	V	45.28	44.78	6.71	28.26	-9.80	35.47	54.00	-18.53
4002.47	V	37.12	44.35	8.42	29.74	-6.60	30.93	54.00	-23.07
5506.84	V	38.25	44.21	9.35	32.35	-2.50	35.74	54.00	-18.26



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 $5.5 \mbox{GHz}$ is mainly from the environment noise.

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

