

# FCC Part 15B TEST REPORT

S T S

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B

Report No.: STS2204062E03

Issued for

BirdDog Australia Pty Ltd

10-38 Down St, Collingwood, VIC, 3066, Australia

Product Name:	BirdDog Play	
Brand Name:	BirdDog	
Model Name:	BDPlay	
Series Model:	N/A	
FCC ID:	2A6CJ-BDPLAY	
Test Standard:	FCC 47 CFR Part 15: Subpart B	

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#### **TEST RESULT CERTIFICATION**

Applicant's Name	BirdDog Australia Pty Ltd
Address	10-38 Down St, Collingwood, VIC, 3066, Australia
Manufacture's Name	Shenzhen VastDo Technology Co., Ltd
Address	Room 403-5, Building L, Baicai Technology Park, No. 26, Lane 2, Liuxian 1st Road, Baoan District, Shenzhen, Guangdong Province, China
Product Description	
Product Name:	BirdDog Play
Brand Name:	BirdDog
Model Name	BDPlay
Series Model	N/A
Standards	FCC 47 CFR Part 15: Subpart B
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 Receipt of Test Item:	11 Apr. 2022
Date of Performance of Tests:	11 Apr. 2022~13 June 2022
Date of Issue	13 June 2022
Test Result:	Pass

**Testing Engineer** 

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(Jane Chen)

Technical Manager

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(Bulun)

Authorized Signatory :

(Bovey Yang)

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# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	13 June 2022	STS2204062E03	ALL	Initial Issue



Shenzhen STS Test Services Co., Ltd.

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# 1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION			
Standard Item Result Remarks			
FOO 47 OFD Datt 45 Outpart 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=Not Applicable.

# 1.1 TEST FACTORY

Company Name:	SHENZHEN STS TEST SERVICES CO.,LTD.		
Address:	A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China		
Telephone:	+86-755 3688 6288		
Fax:	+86-755 3688 6277		
	FCC test Firm Registration Number: 625569		
Registration No.:	IC test Firm Registration Number: 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-30MHz)	±2.73dB
2	All emissions,radiated(<1G) 30MHz-1000MHz	±4.09dB
3	All emissions,radiated(>1G) 1GHz-6GHz	±4.92dB
4	All emissions,radiated(>1G) 6GHz-18GHz	±5.49dB



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	BirdDog Play		
Brand Name	BirdDog		
Model Name	BDPlay		
Series Model	N/A		
Model Difference	N/A		
	Bluetooth	2402~2480 MHz	
	2.4G WLAN	802.11b/g/n(HT20/40):2412~2462MHz 802.11n(40MHz):2422~2452MHz	
Frequency Bands	5G WLAN	IEEE 802.11a/ $n(HT20)/ac(VHT20)$ : 5.180GHz-5.240GHz IEEE 802.11 $n(HT40)/ac(VHT40)$ : 5.190GHz-5.310GHz IEEE 802.11 $ac(VHT80)$ : 5.210GHz IEEE 802.11 $ac(VHT80)$ : 5.210GHz IEEE 802.11 $a/ n(HT20)/ac(VHT20)$ : 5.260GHz-5.320GHz IEEE 802.11 $n(HT40)/ac(VHT40)$ : 5.270GHz-5.310GHz IEEE 802.11 $ac(VHT80)$ : 5.290GHz IEEE 802.11 $a/ n(HT20)/ac(VHT20)$ : 5.500GHz-5.700GHz IEEE 802.11 $n(HT40)/ac(VHT40)$ : 5.510GHz-5.670GHz IEEE 802.11 $ac(VHT80)$ : 5.530GHz-5.610GHz IEEE 802.11 $a/ n(HT20)/ac(VHT20)$ : 5.745GHz-5.825GHz IEEE 802.11 $n(HT40)/ac(VHT40)$ : 5.755GHz-5.795GHz IEEE 802.11 $ac(VHT80)$ : 5.775GHz	
	Bluetooth	GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)	
	BLE	GFSK	
Modulation Mode	2.4 G WLAN	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	
	5G WLAN	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM	
Rating	Input: 5V/1.2A		
Hardware Version Number	BirdDog v1.0		
Software Version Number	BD-U-V1.0.0		

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

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#### 2.2 DESCRIPTION OF THE 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 possibly 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	Adapter+HDMI+USB Cable+Earphone+ +LAN

For Conducted Test		
Final Test Mode	Description	
Mode 1	Adapter+HDMI+USB Cable+Earphone+ +LAN	

For Radiated Test		
Final Test Mode	Description	
Mode 1	Adapter+HDMI+USB Cable+Earphone+ +LAN	

#### 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.
- 3. We have be tested for all avaiable U.S. voltage and frequencies (For 120V, 50/60Hz) for which the device is capable of operation.

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# 2.3 DESCRIPTION OF THE TEST SETUP

The EUT has been tested with associated equipment below and the test setup please refer to appendix 1 - test setup.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
/	USB Cable	Birddog	N/A	160cm	NO
/	Remote control	Teiamon	N/A	N/A	N/A

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
/	U-disk	Sandisk CZ73		N/A	N/A
/	Earphone	N/A	N/A	N/A	N/A
/	Display	AOC	LE24A3150/80	N/A	N/A
/	HDMI Cable	N/A	N/A	110cm	NO
/	Adapter	HUAWEI	HW-050450C00	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>C</sup>Length<sub>2</sub> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



# 2.4 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.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until		
EMI Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29		
Bi-log Antenna	TESEQ	CBL6111D	45873	2021.10.08	2023.10.07		
Horn Antenna	SCHWARZB ECK	BBHA 9120D	1343	2020.10.12	2022.10.11		
Pre-amplifier(1-26.5 G)	Agilent	8449B	3008A02383	2021.10.09	2022.10.08		
Pre-amplifier(0.1M-3 GHz)	EM	EM330	060665	2021.10.09	2022.10.08		
Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.09.30	2022.09.29		
RE Cable (9K-1G)	N/A	R01	N/A	2021.10.09	2022.10.08		
RE Cable (1-26G)	N/A	R02	N/A	2021.10.09	2022.10.08		
Temperature & Humidity	Mieo	HH660	N/A	2021.10.09	2022.10.08		
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11		
Testing Software		EZ-EMC(Ver.STSLAB-03A1 RE)					

#### **Radiation Test equipment**

#### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
LISN	R&S	ENV216	101242	2021.09.30	2022.09.29
LISN	ETS	3810/2NM	00023625	2021.09.30	2022.09.29
Absorbing Clamp	R&S	MDS-21	100668	2022.03.02	2023.03.01
CE Cable	N/A	C01	N/A	2021.09.30	2022.09.29
Temperature & Humidity	Mieo	HH660	N/A	2021.10.09	2022.10.08
Testing Software	e EZ-EMC(Ver.STSLAB-03A1 CE)				

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# 3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Class /	A (dBµV)	⊠Class B (dBµV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.5 ~ 5	73.00	60.00	56.00	46.00	
5 ~ 30	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

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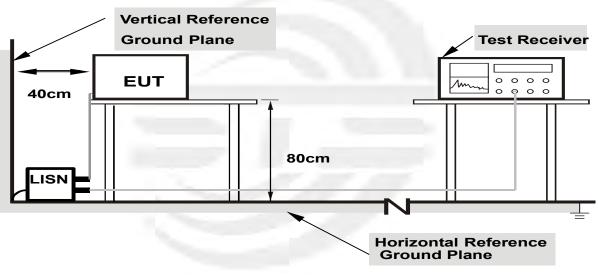
# 3.1.2 TEST PROCEDURE

- 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. 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. 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

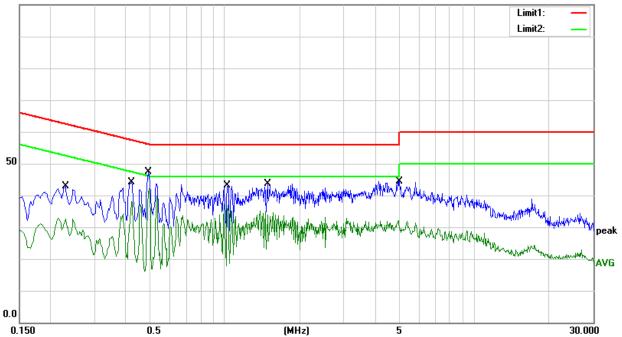
Temperature:	<b>23.5</b> ℃	Relative Humidity:	52%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2022.04.16

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2300	22.33	20.44	42.77	62.45	-19.68	QP
2	0.2300	12.40	20.44	32.84	52.45	-19.61	AVG
3	0.4220	23.68	20.54	44.22	57.41	-13.19	QP
4	0.4220	17.54	20.54	38.08	47.41	-9.33	AVG
5	0.4940	26.72	20.54	47.26	56.10	-8.84	QP
6	0.4940	21.56	20.54	42.10	46.10	-4.00	AVG
7	1.0300	22.79	20.30	43.09	56.00	-12.91	QP
8	1.0300	16.69	20.30	36.99	46.00	-9.01	AVG
9	1.4860	23.33	20.30	43.63	56.00	-12.37	QP
10	1.4860	14.79	20.30	35.09	46.00	-10.91	AVG
11	5.0180	23.97	20.46	44.43	60.00	-15.57	QP
12	5.0180	11.64	20.46	32.10	50.00	-17.90	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values
- 2. Margin = Result (Result = Reading + Factor)–Limit
- 3. Factor = Insertion loss + Cable loss

100.0 dBuV





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Temperature:	nperature: 23.5 ℃		52%	
Phase: N		Test Mode:	Mode 1	
Test Voltage:	AC 120V/60Hz	Test Date:	2022.04.16	

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2300	24.30	20.44	44.74	62.45	-17.71	QP
2	0.2300	15.19	20.44	35.63	52.45	-16.82	AVG
3	0.4980	29.77	20.54	50.31	56.03	-5.72	QP
4	0.4980	18.88	20.54	39.42	46.03	-6.61	AVG
5	1.0620	26.92	20.30	47.22	56.00	-8.78	QP
6	1.0620	15.16	20.30	35.46	46.00	-10.54	AVG
7	1.3820	26.29	20.30	46.59	56.00	-9.41	QP
8	1.3820	15.61	20.30	35.91	46.00	-10.09	AVG
9	4.0860	27.79	20.40	48.19	56.00	-7.81	QP
10	4.0860	13.94	20.40	34.34	46.00	-11.66	AVG
11	8.5220	21.66	20.90	42.56	60.00	-17.44	QP
12	8.5220	7.50	20.90	28.40	50.00	-21.60	AVG

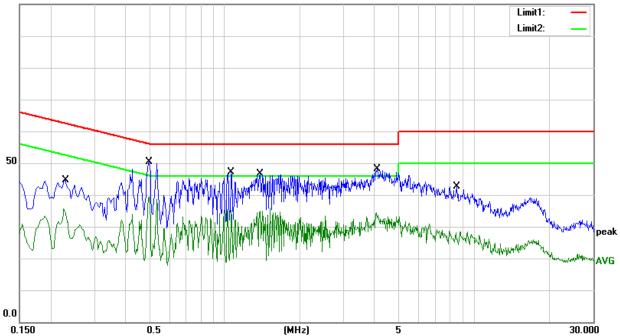
Remark:

1. All readings are Quasi-Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor = Insertion loss + Cable loss

100.0 dBuV





# 3.2 RADIATED EMISSION MEASUREMENT

# 3.2.1 RADIATED EMISSION LIMITS

# Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)		⊠Class B	
	Field strength (dBuV/m) ( at 10m)	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 3m)
30 ~ 88	39	49	40
88 ~ 216	43.5	53.5	43.5
216 ~ 960	46	56	46
Above 960	49.5	59.5	54

# Above 1 GHz

Measurement Method and Applied Limits:

#### ANSI C63.4:

Frequency (MHz)			⊠Class B			
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

# Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper		
frequency of measurement used in the device	Range (MHz)	
or on which the device operates or tunes	Range (winz)	
(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	

Note:

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

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#### 3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter 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 meter and the rotatable table was turned from 0 degrees to 360 degree 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

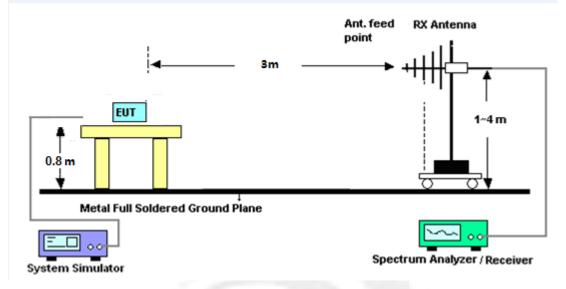
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

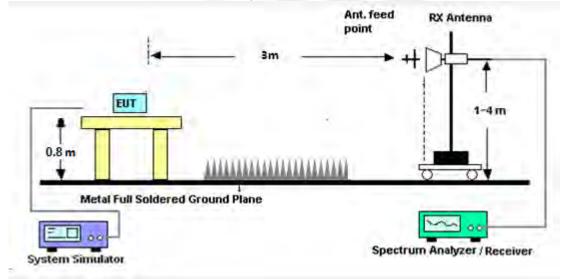


# 3.2.4 TEST SETUP

#### (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 described unless otherwise a special operating condition is specified in the following during the testing.



# 3.2.6 TEST RESULTS

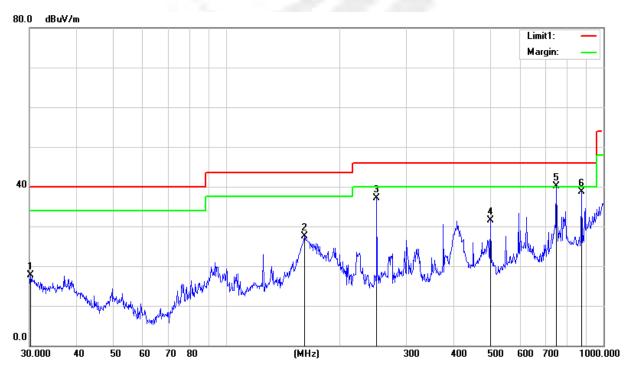
#### 30MHz - 1000MHz

Temperature:	24.6 °C	Relative Humidity:	55%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2022.05.30

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2110	28.92	-11.15	17.77	40.00	-22.23	QP
2	160.9088	46.32	-18.79	27.53	43.50	-15.97	QP
3	250.3010	54.38	-17.35	37.03	46.00	-8.97	QP
4	501.1790	41.94	-10.47	31.47	46.00	-14.53	QP
5	750.1082	44.94	-4.93	40.01	46.00	-5.99	QP
6	875.2470	43.32	-4.55	38.77	46.00	-7.23	QP

# Remark:

- All readings are Quasi-Peak
  Margin = Result (Result =Reading + Factor)–Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Shenzhen STS Test Services Co., Ltd.



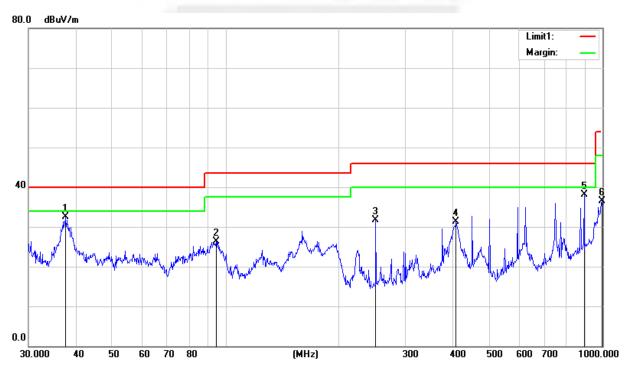
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Temperature:	24.6 °C	Relative Humidity:	55%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2022.05.30

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.5478	47.68	-15.23	32.45	40.00	-7.55	QP
2	94.4282	47.10	-20.84	26.26	43.50	-17.24	QP
3	250.3010	49.02	-17.35	31.67	46.00	-14.33	QP
4	408.9460	44.05	-12.83	31.22	46.00	-14.78	QP
5	893.8567	41.82	-3.74	38.08	46.00	-7.92	QP
6	996.4995	38.59	-2.16	36.43	54.00	-17.57	QP

### Remark:

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





(1 GHz - 18GHz)

Temperature:	<b>25.3</b> ℃	Relative Humidity:	53%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2022.04.11

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	4026.000	41.73	4.40	46.13	74.00	-27.87	Peak
2	4026.000	34.12	4.40	38.52	54.00	-15.48	AVG
3	8225.000	36.28	11.38	47.66	74.00	-26.34	Peak
4	8225.000	28.27	11.38	39.65	54.00	-14.35	AVG
5	9627.500	34.65	13.44	48.09	74.00	-25.91	Peak
6	9627.500	25.99	13.44	39.43	54.00	-14.57	AVG
7	12381.500	34.09	15.36	49.45	74.00	-24.55	Peak
8	12381.500	25.63	15.36	40.99	54.00	-13.01	AVG
9	14574.500	33.48	18.16	51.64	74.00	-22.36	Peak
10	14574.500	25.08	18.16	43.24	54.00	-10.76	AVG
11	17957.500	30.70	24.31	55.01	74.00	-18.99	Peak
12	17957.500	22.17	24.31	46.48	54.00	-7.52	AVG

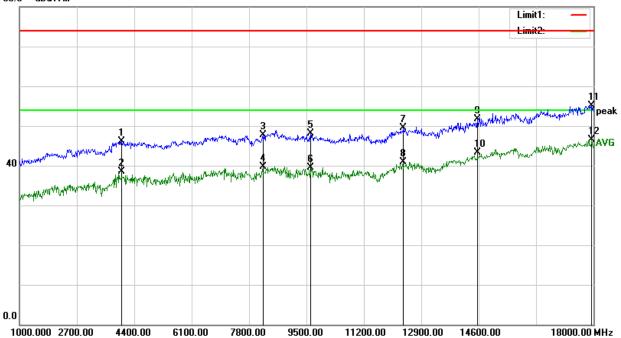
#### Remark:

1. All readings are Peak and Average values

2. Margin = Result (Result = Reading + Factor)-Limit

3. Factor= Cable Loss +Antenna Factor-Amplifier Gain

80.0 dBuV/m





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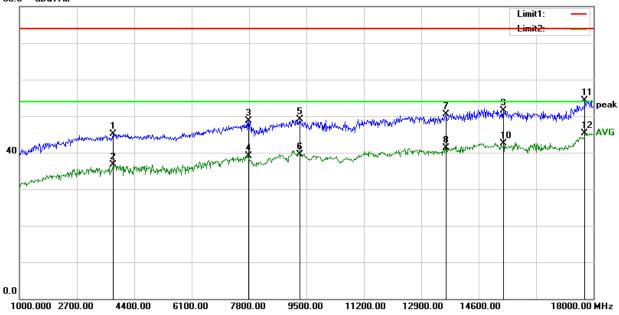
Temperature:	<b>25.3</b> ℃	Relative Humidity:	53%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2022.04.11

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3779.500	41.30	3.79	45.09	74.00	-28.91	Peak
2	3779.500	32.99	3.79	36.78	54.00	-17.22	AVG
3	7783.000	37.64	11.11	48.75	74.00	-25.25	Peak
4	7783.000	28.00	11.11	39.11	54.00	-14.89	AVG
5	9321.500	35.17	13.91	49.08	74.00	-24.92	Peak
6	9321.500	25.66	13.91	39.57	54.00	-14.43	AVG
7	13631.000	34.44	16.04	50.48	74.00	-23.52	Peak
8	13631.000	25.22	16.04	41.26	54.00	-12.74	AVG
9	15339.500	34.11	17.48	51.59	74.00	-22.41	Peak
10	15339.500	25.04	17.48	42.52	54.00	-11.48	AVG
11	17753.500	30.72	23.68	54.40	74.00	-19.60	Peak
12	17753.500	21.71	23.68	45.39	54.00	-8.61	AVG

#### Remark:

1. All readings are Peak and Average values

- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain
- 80.0 dBuV/m



#### Notes:

- 1. Measuring frequencies from 1 GHz to 18GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak and average detector mode of the emission shown in Actual FS column.
- 3. The frequency emission of 18-25GHz is at least 20dB lower than the limit, and the frequency emission mainly comes from environmental noise.

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

Shenzhen STS Test Services Co., Ltd.