



**FCC Part 15B TEST REPORT**

Report No.: STS2102009E02

Issued for

Shenzhen UniStrong Science & Technology Co.,Ltd.  
 B,4-4Factory, Zhengcheng Road, FuyongBaoan District,  
 Shenzhen, China

<b>Product Name:</b>	Rugged Smart Phone
<b>Brand Name:</b>	N/A
<b>Model Name:</b>	UT12P
<b>Series Model:</b>	N/A
<b>FCC ID:</b>	2AOPD-UT12P
<b>Test Standard:</b>	FCC 47 CFR Part 15: Subpart B

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TEST RESULT CERTIFICATION

Applicant's Name .....: Shenzhen UniStrong Science & Technology Co.,Ltd.
Address .....: B,4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China
Manufacture's Name .....: Shenzhen UniStrong Science & Technology Co.,Ltd.
Address .....: B,4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China
Product Description .....:
Product Name .....: Rugged Smart Phone
Brand Name .....: N/A
Model Name .....: UT12P
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 .....: 02 Feb. 2021
Date of Performance of Tests.....: 02 Feb. 2021 ~ 07 Feb. 2021
Date of Issue .....: 07 Feb. 2021
Test Result.....: Pass

Compiled by : Mickey Deng
(Mickey Deng)

Technical Manager : Barry Li
(Barry Li)

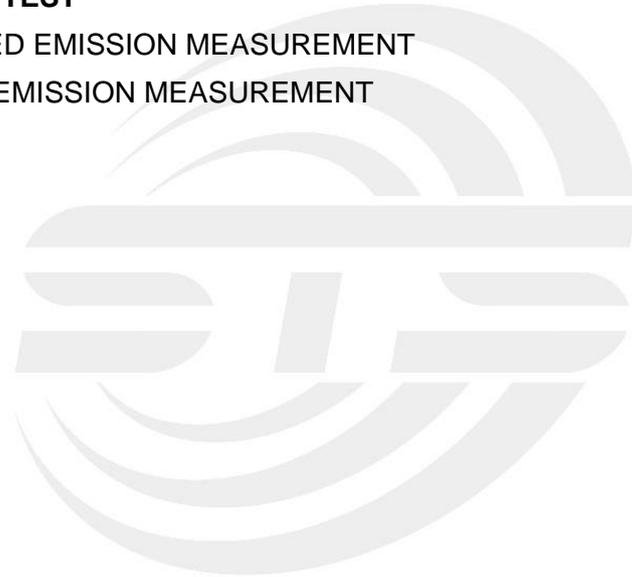
Authorized Signatory : Vita Li
(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	07 Feb. 2021	STS2102009E02	ALL	Initial Issue





## 1. SUMMARY OF THE 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
	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
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded 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)	$\pm 2.79\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$
3	All emissions,radiated(<1G) 30MHz-1000MHz	$\pm 4.39\text{dB}$
4	All emissions,radiated(>1G) 1GHz-6GHz	$\pm 5.10\text{dB}$
5	All emissions,radiated(>1G) 6GHz-26GHz	$\pm 5.48\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Rugged Smart Phone	
Brand Name	N/A	
Model Name	UT12P	
Series Model	N/A	
Model Difference	N/A	
Frequency Bands	GSM	850: 824~849 MHz 1900: 1850~1910MHz
	WCDMA	Band 2: 1850 ~1910MHz Band 4: 1710~1755MHz Band 5: 824~849MHz
	LTE	Band 2: 1850~1910MHz Band 4: 1710~1755MHz Band 5: 824~849MHz Band 7: 2500~2570MHz Band 12: 699~716MHz Band 13: 777~787MHz Band 17: 704~716MHz Band 26: 814~849MHz Band 41: 2496~2690MHz
	2.4G WLAN	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz
	5G WLAN	IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz
		IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz
	Bluetooth	2402~2480MHz
	NFC	13.56MHz
Modulation Mode	GSM	GMSK for GPRS; GMSK and 8PSK for EDGE
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	LTE	QPSK/16QAM;
	2.4G 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
	Bluetooth	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps)
	BLE	GFSK
	NFC	ASK
Adapter	Input: AC 100-240V 50/60Hz 0.7A Output: DC 5V 3A or 9V 2A or 12V 1.5A	
Battery	Rated Voltage:3.8V Charge Limit Voltage:4.35V Capacity: 8000mAh	
Hardware Version Number	C602_MB_PCB_V102	
Software Version Number	RP00.53.84.08	

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



## 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	PC+USB Transmitting+SD Card
Mode 2	Adapter + Back camera on + BT Link+ +NFC
Mode 3	GSM850 Link + Adapter + USB cable + BT Link + WLAN Link(2.4G) +NFC
Mode 4	DCS1900 Idle + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 5	WCDMA850 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 6	WCDMA1900 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 7	LTE B2 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 8	LTE B4 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 9	LTE B5 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 10	LTE B7 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 11	LTE B12 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 12	LTE B13 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 13	LTE B17 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 14	LTE B26 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC
Mode 15	LTE B41 Link + Adapter + USB cable + BT Link + WLAN Link(5G) +NFC

For Conducted Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

For Radiated Test	
Final Test Mode	Description
Mode 1	PC+USB Transmitting+SD Card

**Note:**

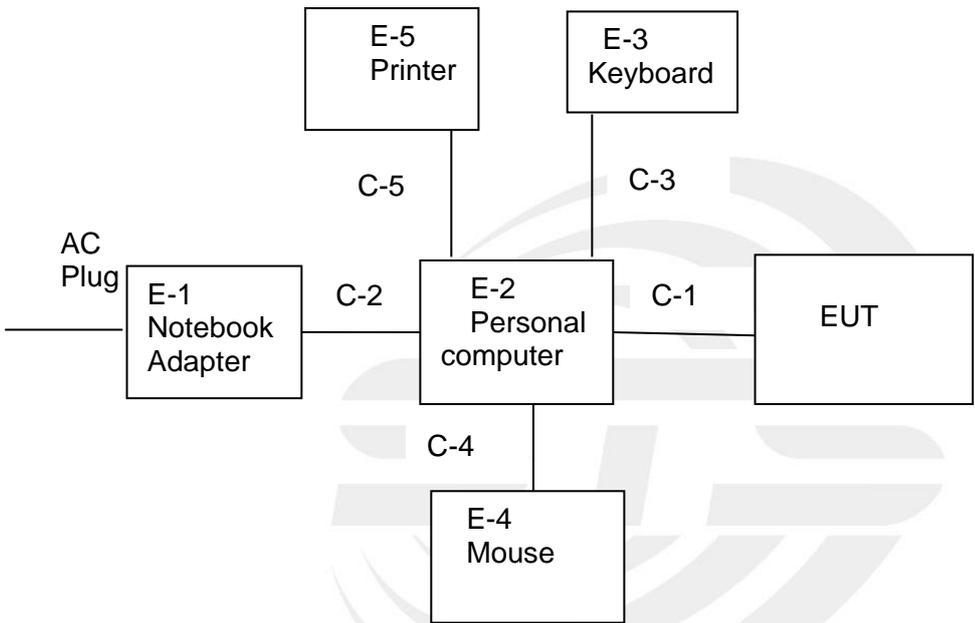
1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
2. For radiated emission test, test mode 1 was the worst case and only this mode was presented

in this report.

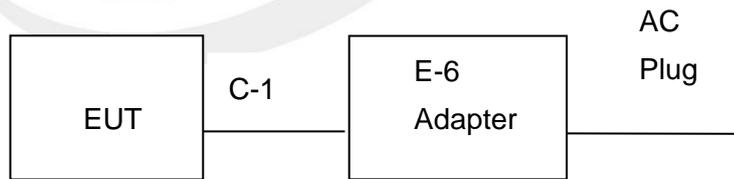
- 3. We have be tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz) for which the device is capable of operation.

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

Mode1



Mode2





## 2.4 DESCRIPTION OF THE 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.

### Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
C-1	USB Cable	N/A	N/A	100cm	YES
E-6	Adpater	Aquilstar	ASUC71w-050912300	N/A	N/A

### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Notebook Adapter	DELL	HSTNN-CA15	N/A	N/A
E-2	Personal computer	DELL	VOSTRO.3800	N/A	N/A
E-3	Keyboard	Acer	SK-9624	N/A	N/A
E-4	Mouse	HP	MODGUO	N/A	N/A
E-5	Printer	LENOVO	LJ2400L	N/A	N/A
C-2	DC Cable	N/A	N/A	120cm	NO
C-3	USB Cable	N/A	N/A	110cm	NO
C-4	USB Cable	N/A	N/A	110cm	NO
C-5	USB Cable	N/A	N/A	110cm	NO

### Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



## 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	2020.10.12	2021.10.11
Bi-log Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZB ECK	BBHA 9120D	1343	2020.10.12	2022.10.11
Pre-amplifier(1-26.5 G)	Agilent	8449B	3008A02383	2020.10.12	2021.10.11
Pre-amplifier(0.1M-3 GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.10.12	2021.10.11
RE Cable (9K-1G)	N/A	R01	N/A	2020.10.12	2021.10.11
RE Cable (1-26G)	N/A	R02	N/A	2020.10.12	2021.10.11
Temperature & Humidity	Mieo	HH660	N/A	2020.10.13	2021.10.12
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Testing Software	EZ-EMC(Ver.STSLAB-03A1 RE)				

### Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
LISN	R&S	ENV216	101242	2020.10.12	2021.10.11
LISN	ETS	3810/2NM	00023625	2020.10.12	2021.10.11
Absorbing Clamp	R&S	MDS-21	100668	2020.10.13	2021.10.12
CE Cable	N/A	C01	N/A	2020.10.13	2021.10.12
Temperature & Humidity	Mieo	HH660	N/A	2020.10.13	2021.10.12
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)				



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	<input type="checkbox"/> Class A (dB $\mu$ V)		<input checked="" type="checkbox"/> Class B (dB $\mu$ V)	
	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

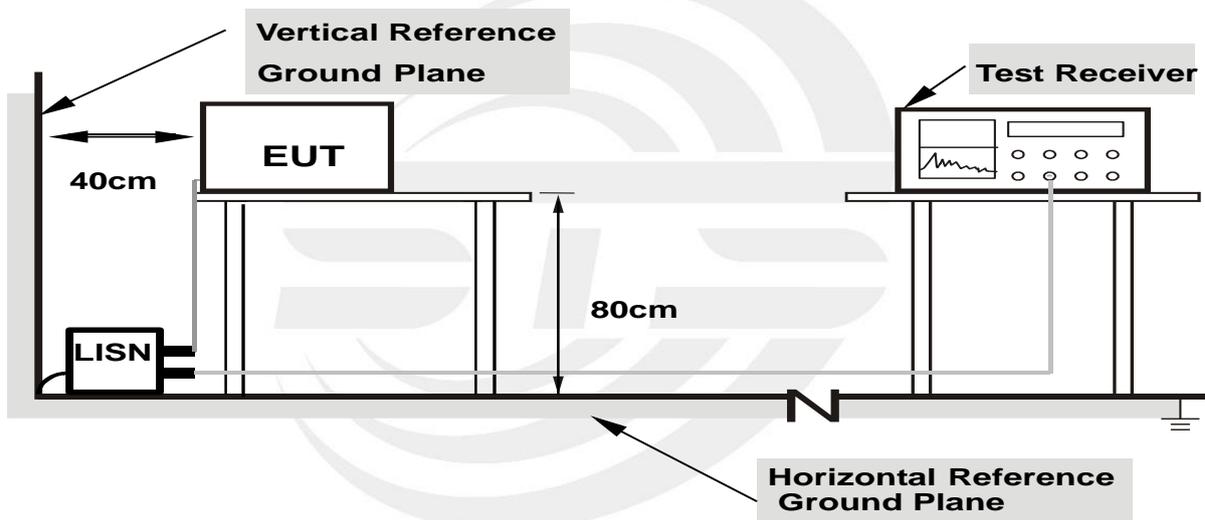
### 3.1.2 TEST PROCEDURE

- 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

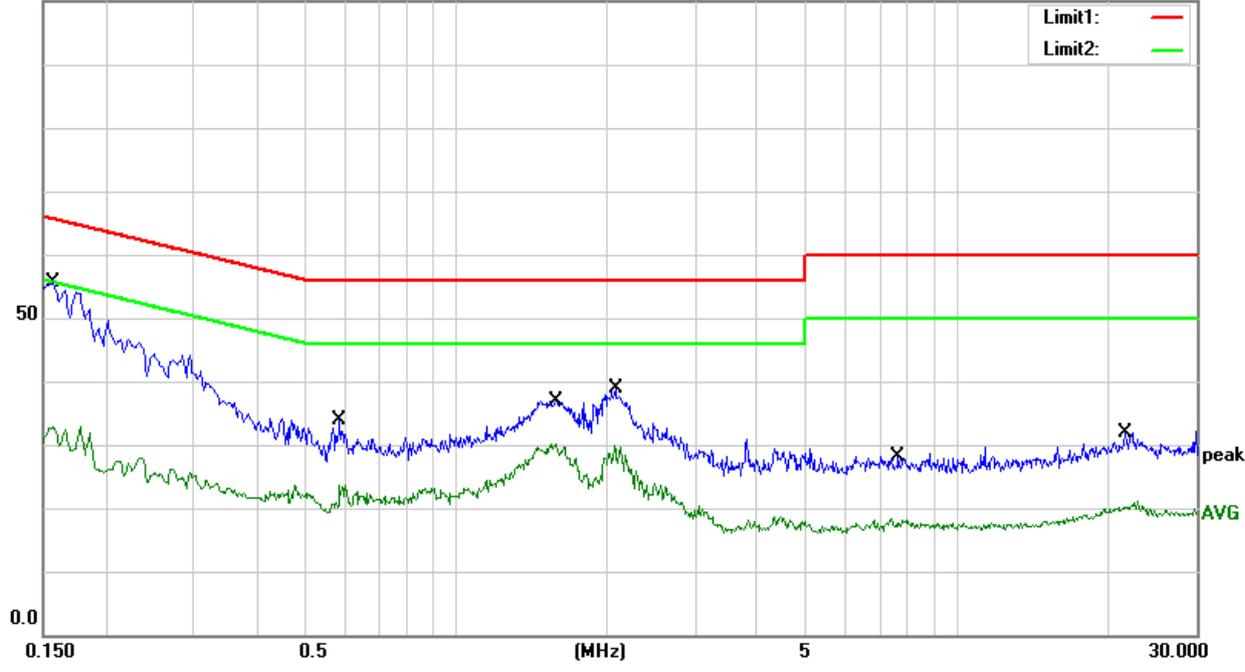
Temperature:	26.8 °C	Relative Humidity:	66%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.02.03

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	35.32	20.21	55.53	65.57	-10.04	QP
2	0.1580	12.56	20.21	32.77	55.57	-22.80	AVG
3	0.5860	13.42	20.37	33.79	56.00	-22.21	QP
4	0.5860	3.25	20.37	23.62	46.00	-22.38	AVG
5	1.5900	16.81	20.15	36.96	56.00	-19.04	QP
6	1.5900	10.09	20.15	30.24	46.00	-15.76	AVG
7	2.0820	18.68	20.14	38.82	56.00	-17.18	QP
8	2.0820	9.77	20.14	29.91	46.00	-16.09	AVG
9	7.6300	8.26	19.89	28.15	60.00	-31.85	QP
10	7.6300	-1.64	19.89	18.25	50.00	-31.75	AVG
11	21.6260	11.29	20.65	31.94	60.00	-28.06	QP
12	21.6260	0.36	20.65	21.01	50.00	-28.99	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





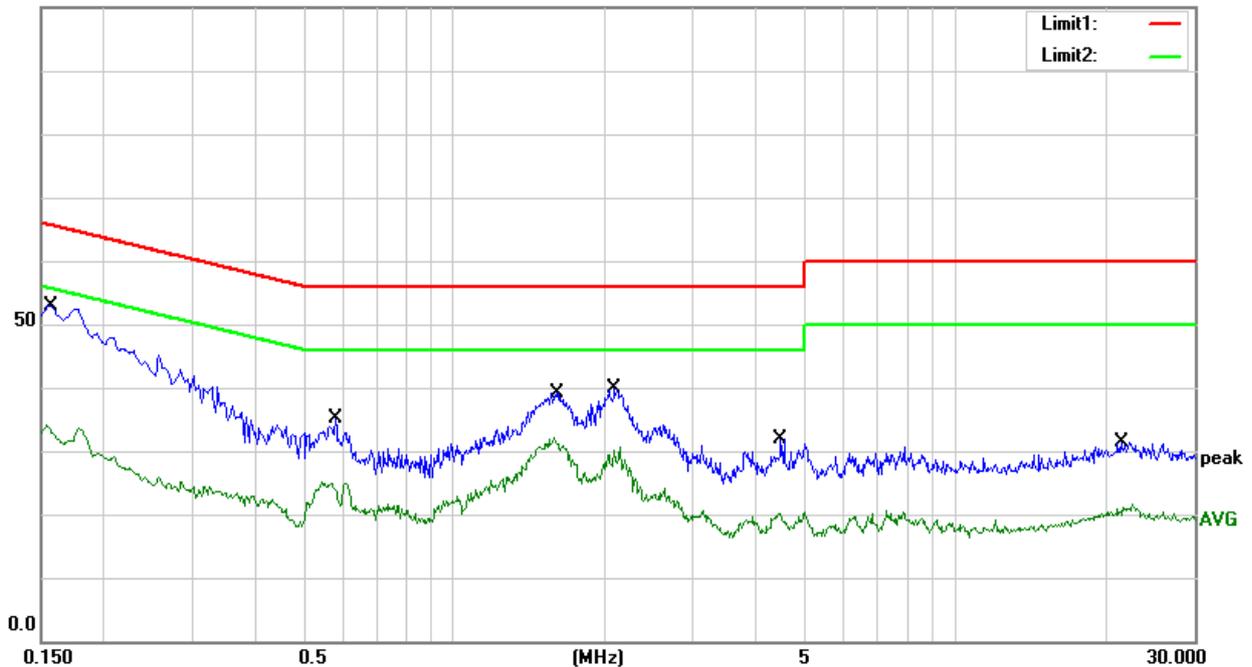
Temperature:	26.8 °C	Relative Humidity:	66%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2021.02.03

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	32.63	20.21	52.84	65.57	-12.73	QP
2	0.1580	12.65	20.21	32.86	55.57	-22.71	AVG
3	0.5820	14.85	20.37	35.22	56.00	-20.78	QP
4	0.5820	4.44	20.37	24.81	46.00	-21.19	AVG
5	1.6260	18.92	20.15	39.07	56.00	-16.93	QP
6	1.6260	10.80	20.15	30.95	46.00	-15.05	AVG
7	2.0940	19.70	20.14	39.84	56.00	-16.16	QP
8	2.0940	9.97	20.14	30.11	46.00	-15.89	AVG
9	4.4820	11.93	20.05	31.98	56.00	-24.02	QP
10	4.4820	0.12	20.05	20.17	46.00	-25.83	AVG
11	21.3980	10.82	20.65	31.47	60.00	-28.53	QP
12	21.3980	0.51	20.65	21.16	50.00	-28.84	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)	<input type="checkbox"/> Class A		<input checked="" type="checkbox"/> 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)	<input type="checkbox"/> Class A				<input checked="" type="checkbox"/> 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 or on which the device operates or tunes (MHz)	Range (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).



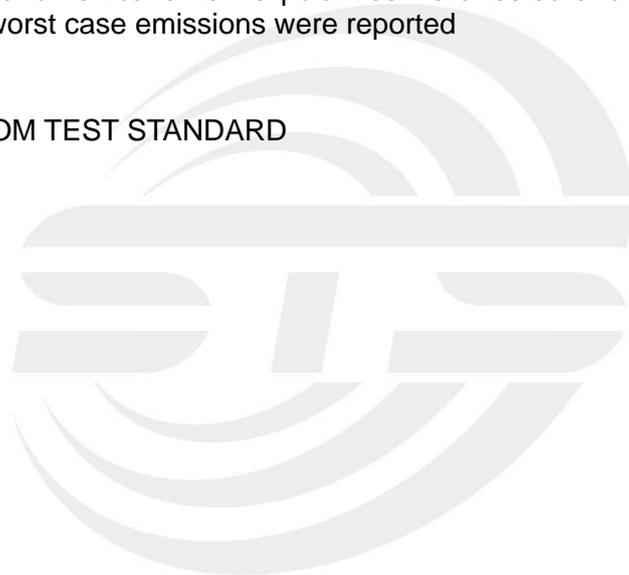
### 3.2.2 TEST PROCEDURE

- 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

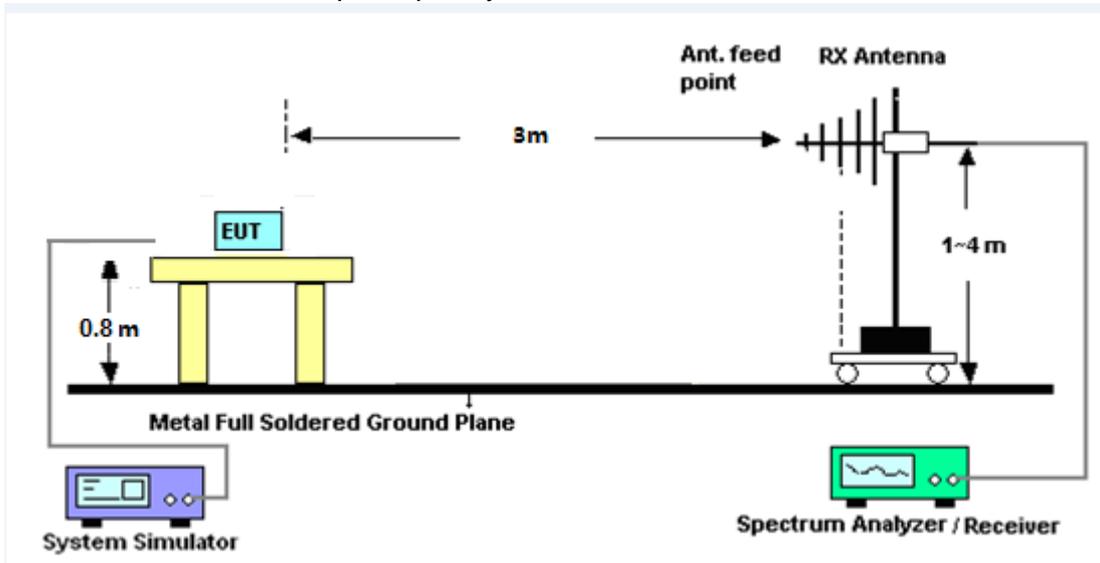
### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

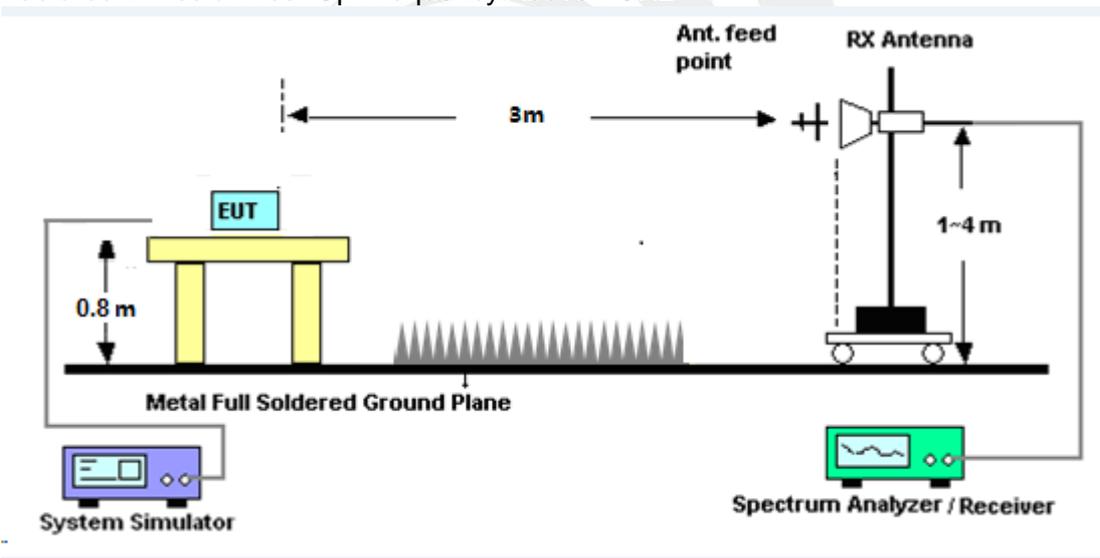


### 3.2.4 TEST SETUP

(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

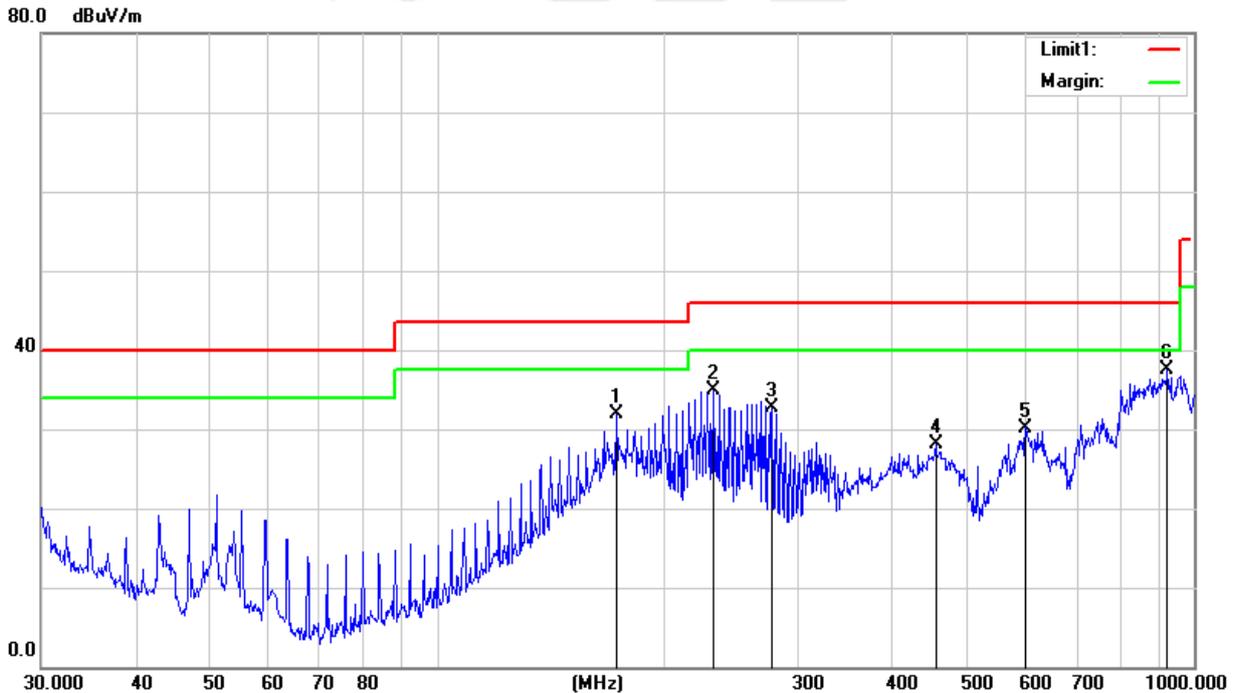
30MHz - 1000MHz

Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	172.5988	51.95	-20.13	31.82	43.50	-11.68	QP
2	231.7180	53.71	-18.77	34.94	46.00	-11.06	QP
3	277.0935	48.54	-15.89	32.65	46.00	-13.35	QP
4	455.9058	39.98	-11.93	28.05	46.00	-17.95	QP
5	599.3212	38.77	-8.57	30.20	46.00	-15.80	QP
6	922.5157	40.13	-2.67	37.46	46.00	-8.54	QP

Remark:

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





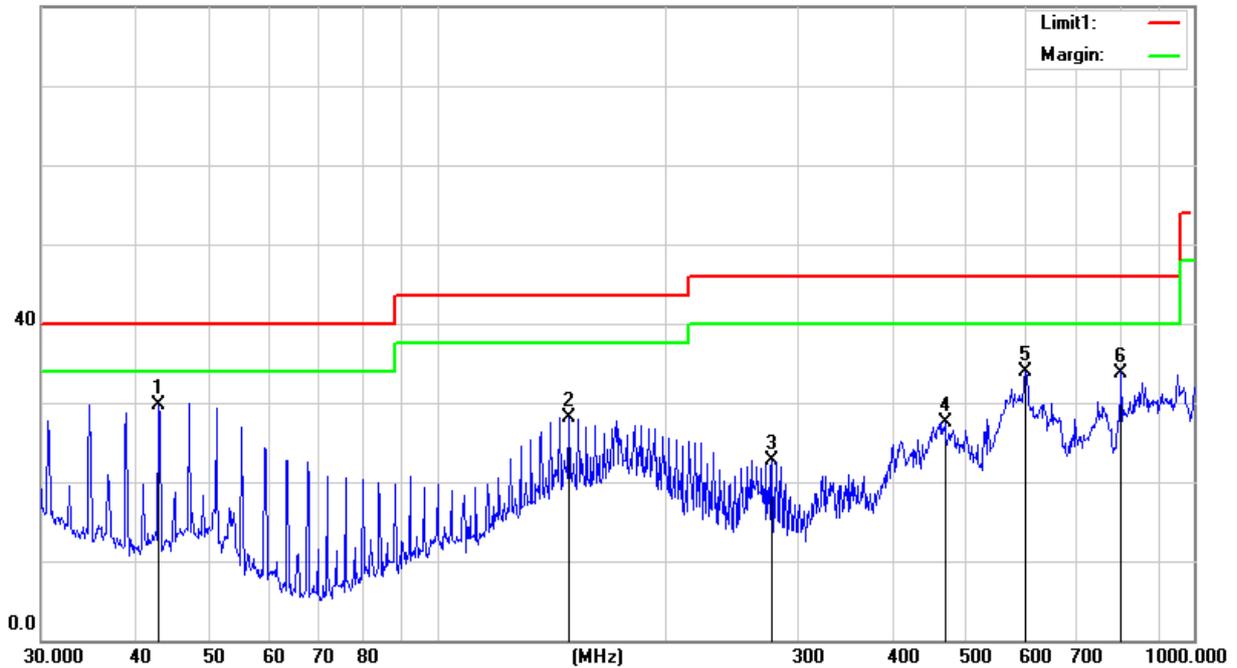
Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.8998	47.76	-18.07	29.69	40.00	-10.31	QP
2	149.4857	46.25	-18.12	28.13	43.50	-15.37	QP
3	277.0935	38.63	-15.89	22.74	46.00	-23.26	QP
4	468.8762	38.95	-11.38	27.57	46.00	-18.43	QP
5	599.3212	42.47	-8.57	33.90	46.00	-12.10	QP
6	801.7863	38.63	-4.83	33.80	46.00	-12.20	QP

Remark:

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

80.0 dBuV/m





(1 GHz - 18GHz)

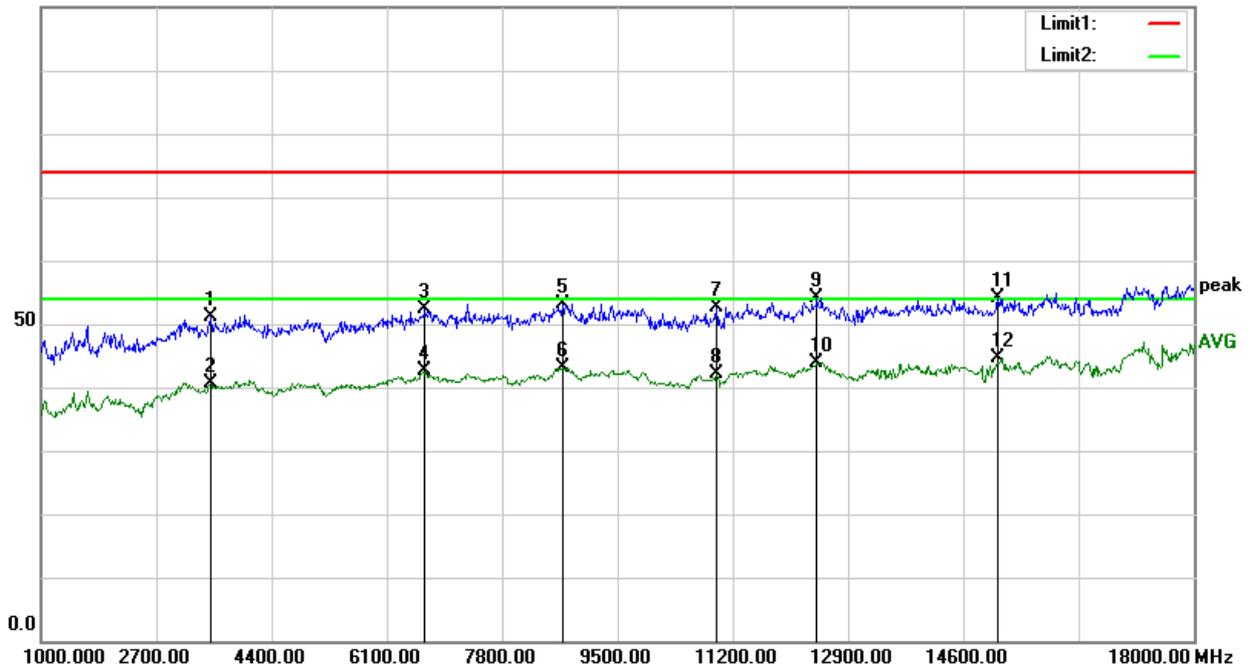
Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	3499.000	48.82	2.41	51.23	74.00	-22.77	Peak
2	3499.000	38.24	2.41	40.65	54.00	-13.35	AVG
3	6661.000	42.14	10.17	52.31	74.00	-21.69	Peak
4	6661.000	32.38	10.17	42.55	54.00	-11.45	AVG
5	8684.000	39.89	13.23	53.12	74.00	-20.88	Peak
6	8684.000	30.01	13.23	43.24	54.00	-10.76	AVG
7	10962.000	38.42	14.21	52.63	74.00	-21.37	Peak
8	10962.000	28.01	14.21	42.22	54.00	-11.78	AVG
9	12441.000	38.69	15.46	54.15	74.00	-19.85	Peak
10	12441.000	28.50	15.46	43.96	54.00	-10.04	AVG
11	15110.000	36.20	17.87	54.07	74.00	-19.93	Peak
12	15110.000	26.74	17.87	44.61	54.00	-9.39	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

100.0 dBUV/m





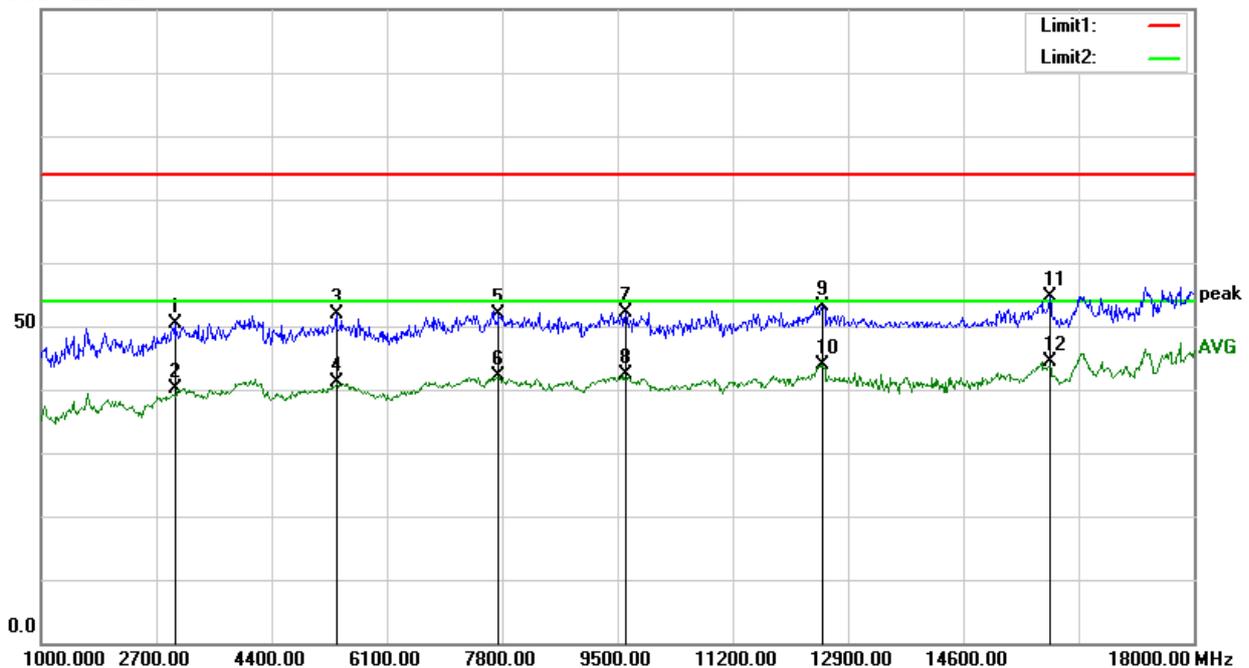
Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	2972.000	48.34	2.11	50.45	74.00	-23.55	Peak
2	2972.000	37.98	2.11	40.09	54.00	-13.91	AVG
3	5352.000	44.80	7.03	51.83	74.00	-22.17	Peak
4	5352.000	34.10	7.03	41.13	54.00	-12.87	AVG
5	7749.000	40.67	11.10	51.77	74.00	-22.23	Peak
6	7749.000	31.00	11.10	42.10	54.00	-11.90	AVG
7	9619.000	38.66	13.43	52.09	74.00	-21.91	Peak
8	9619.000	28.96	13.43	42.39	54.00	-11.61	AVG
9	12526.000	37.66	15.55	53.21	74.00	-20.79	Peak
10	12526.000	28.36	15.55	43.91	54.00	-10.09	AVG
11	15875.000	38.13	16.57	54.70	74.00	-19.30	Peak
12	15875.000	27.76	16.57	44.33	54.00	-9.67	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

100.0 dBUV/m





(18 GHz - 25GHz)

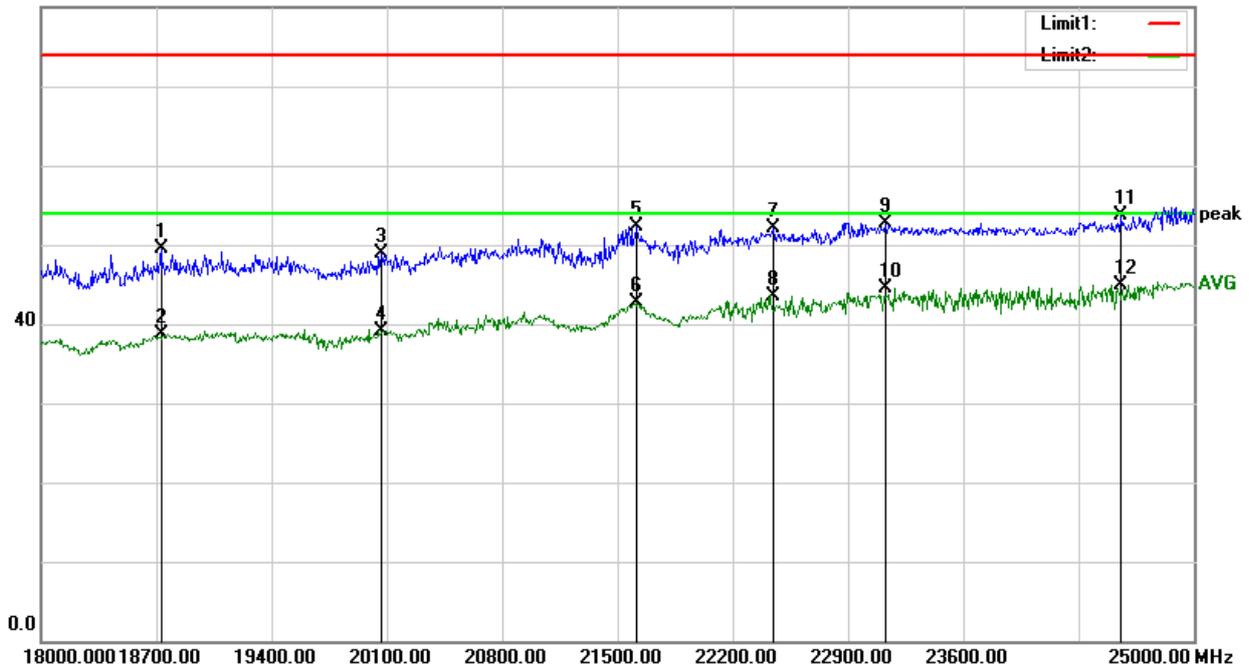
Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBUV)	Correct Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
1	18728.000	24.77	24.69	49.46	74.00	-24.54	Peak
2	18728.000	13.95	24.69	38.64	54.00	-15.36	AVG
3	20065.000	24.24	24.68	48.92	74.00	-25.08	Peak
4	20065.000	14.49	24.68	39.17	54.00	-14.83	AVG
5	21619.000	27.64	24.69	52.33	74.00	-21.67	Peak
6	21619.000	18.05	24.69	42.74	54.00	-11.26	AVG
7	22445.000	27.76	24.43	52.19	74.00	-21.81	Peak
8	22445.000	19.00	24.43	43.43	54.00	-10.57	AVG
9	23131.000	28.13	24.60	52.73	74.00	-21.27	Peak
10	23131.000	19.82	24.60	44.42	54.00	-9.58	AVG
11	24559.000	28.68	24.95	53.63	74.00	-20.37	Peak
12	24559.000	20.04	24.95	44.99	54.00	-9.01	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





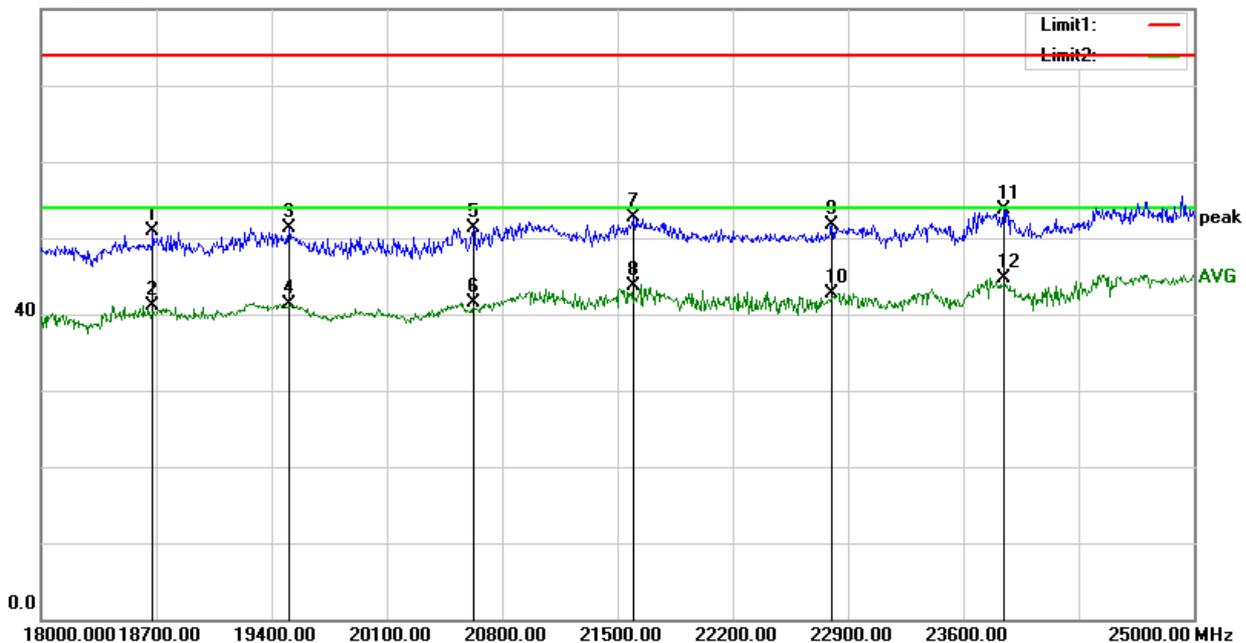
Temperature:	23.1 °C	Relative Humidity:	45%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	DC 5V	Test Date:	2021.02.02

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	18679.000	26.23	24.62	50.85	74.00	-23.15	Peak
2	18679.000	16.50	24.62	41.12	54.00	-12.88	AVG
3	19505.000	25.62	25.63	51.25	74.00	-22.75	Peak
4	19505.000	15.64	25.63	41.27	54.00	-12.73	AVG
5	20625.000	26.33	24.94	51.27	74.00	-22.73	Peak
6	20625.000	16.52	24.94	41.46	54.00	-12.54	AVG
7	21598.000	27.99	24.71	52.70	74.00	-21.30	Peak
8	21598.000	19.09	24.71	43.80	54.00	-10.20	AVG
9	22802.000	27.26	24.50	51.76	74.00	-22.24	Peak
10	22802.000	18.22	24.50	42.72	54.00	-11.28	AVG
11	23845.000	28.86	24.81	53.67	74.00	-20.33	Peak
12	23845.000	19.91	24.81	44.72	54.00	-9.28	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 25GHz.
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.

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