



EMC Test Report

Report No.: STS2603219E06

Issued for

Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Product Name: AI Sports Walkie Talkie

Brand Name: RugOne

Model Name: Xlink 7

Series Model(s): GR2001, Xlink 7 Pro, Xlink 7 Ultra, Xlink 7 Plus, Xlink 7 Lite, Xlink 7S, Xlink 7E, Xlink 7+, Xlink 7 Pro+

FCC ID: 2AOWK-GR2001

Test Standards: FCC 47 CFR Part 15: Subpart B

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT****Applicant's Name**: Shenzhen Gotron Electronic CO.,LTD.

Address: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Manufacturer's Name: Shenzhen Gotron Electronic CO.,LTD.

Address: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Product description

Product Name: AI Sports Walkie Talkie

Brand Name: RugOne

Model Name: Xlink 7

Series Model(s): GR2001, Xlink 7 Pro, Xlink 7 Ultra, Xlink 7 Plus, Xlink 7 Lite, Xlink 7S, Xlink 7E, Xlink 7+, Xlink 7 Pro+

Test Standards: FCC 47 CFR Part 15: Subpart B

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Date of Test

Date of Receipt of Test Item: 26 Mar. 2026

Date (s) of performance of Tests: 26 Mar. 2026~ 30 June 2026

Date of Issue: 30 June 2026

Test Result: **Pass**

Testing Engineer :

Star Deng

(Star Deng)

Technical Manager :

Jason Liu

(Jason Liu)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 June 2026	STS2603219E06	ALL	Initial Issue



1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission			
Standard	Test Item	Result	Remark
FCC 47 CFR Part 15: Subpart B	Conducted Emission	PASS	Meet Class B limit
	Radiated Emissions	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:	101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai 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)	$\pm 2.14\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 3.02\text{dB}$
3	All emissions, radiated(<1G) 30MHz-1000MHz	$\pm 3.87\text{dB}$
4	All emissions, radiated(>1G) 1GHz-6GHz	$\pm 4.82\text{dB}$
5	All emissions, radiated(>1G) 6GHz-18GHz	$\pm 5.26\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	AI Sports Walkie Talkie	
Brand Name	RugOne	
Model Name	Xlink 7	
Series Model(s)	GR2001, Xlink 7 Pro, Xlink 7 Ultra, Xlink 7 Plus, Xlink 7 Lite, Xlink 7S, Xlink 7E, Xlink 7+, Xlink 7 Pro+	
Model Difference	Only different in model name	
Product Description	The EUT is a AI Sports Walkie Talkie ITE equipment having a primary function of either (or a combination of) entry, storage, display, retrieval, transmission, processing, switching, or control of data and/or telecommunication messages and which may be equipped with one or more ports typically for information transfer.	
Frequency Bands	Bluetooth	2402~2480 MHz
	LTE Rx Frequency:	LTE Band 5:869~894MHz LTE Band 12:729~746MHz LTE Band 26 Part 90:859~869MHz LTE Band 26 Part 22:869~894MHz
	2.4G SRD	2405MHz, 2440MHz, 2476MHz
Modulation Mode	BT	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
	BLE	GFSK
	LTE	QPSK/16QAM
	2.4G SRD	GFSK
Rating	Input: DC5V 0.5A	
Battery	Model: 2001 Brand: RugOne Rated Voltage: 3.85V Charge Limit Voltage: 4.4V Capacity: 1020mAh	
Adapter	N/A	
Hardware version number	N/A	
Software version number	N/A	



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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	Charging
Mode 2	LTE B5 Link+BT Link+GPS RX+SRD
Mode 3	LTE B12 Link+BT Link+GPS RX+SRD
Mode 4	LTE B26 Link+BT Link+GPS RX+SRD

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging

For Radiated Test	
Final Test Mode	Description
Mode 2	LTE B5 Link+BT Link+GPS RX+SRD

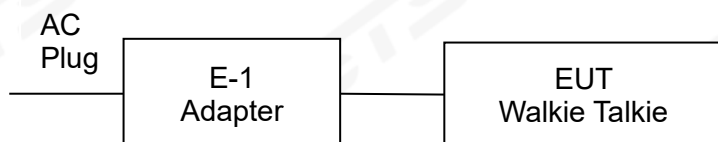
Note:

1. In the conducted disturbance test, Mode 1 is the minimum margin mode, and this report only shows the minimum margin mode test data.
2. In the radiation disturbance test, Mode 2 is the minimum margin mode, and this report only shows the minimum margin mode test data.

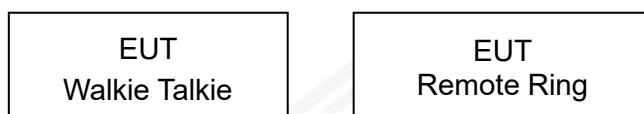


2.3 DESCRIPTION OF TEST SETUP

Mode1



Mode2



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	SZTY	M4-050100A1	N/A

Item	Equipment	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

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 『Length』column.



2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2025.9.25	2026.9.24
LISN	R&S	ENV216	101242	2025.9.25	2026.9.24
LISN	R&S	3810/2NM	00023625	2025.9.25	2026.9.24
Limiter	CYBERTEK	EM5010	N/A	2025.9.25	2026.9.24
Absorbing Clamp	R&S	MDS-21	100668	2026.2.5	2027.2.4
CE Cable	EASTSHEEP	C01	010057	2025.9.24	2026.9.23
Clamp Cable	EASTSHEEP	C02	010058	2025.9.24	2026.9.23
Loops Cable	EASTSHEEP	C03	010059	2025.9.24	2026.9.23
ISN	SCHWARZBECK	CAT 6	NTFM 8158#153	2025.9.25	2026.9.24
Temperature & Humidity	topris	TP502V4-P	6900000422137	2025.8.26	2026.8.25
Testing Software	EZ-EMC(Ver.STSLAB-03A1 CE)				

2.5.2 RADIATED TEST SITE

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2025.9.25	2026.9.24
Bi-log Antenna	TESEQ	CBL6111D	45873	2025.9.21	2026.9.20
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2025.9.27	2026.9.26
Pre-amplifier(1G-26.5G)	Agilent	HP8449B	3008A02383	2026.2.8	2027.2.7
Pre-amplifier(0.1M-3GHz)	EM	EM330	060665	2026.2.5	2027.2.4
Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.9.24	2026.9.23
RE Cable (9K-1G)	N/A	R01	N/A	2025.9.24	2026.9.23
RE Cable (1G-26G)	N/A	R02	N/A	2025.9.24	2026.9.23
Temperature & Humidity	topris	TP502V4-P	6900000422328	2025.8.26	2026.8.25
SAC	ChengYu	9*6*6	N/A	2025.8.13	2028.8.12
Testing Software	EZ-EMC(Ver.STSLAB-03A1 RE)				



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

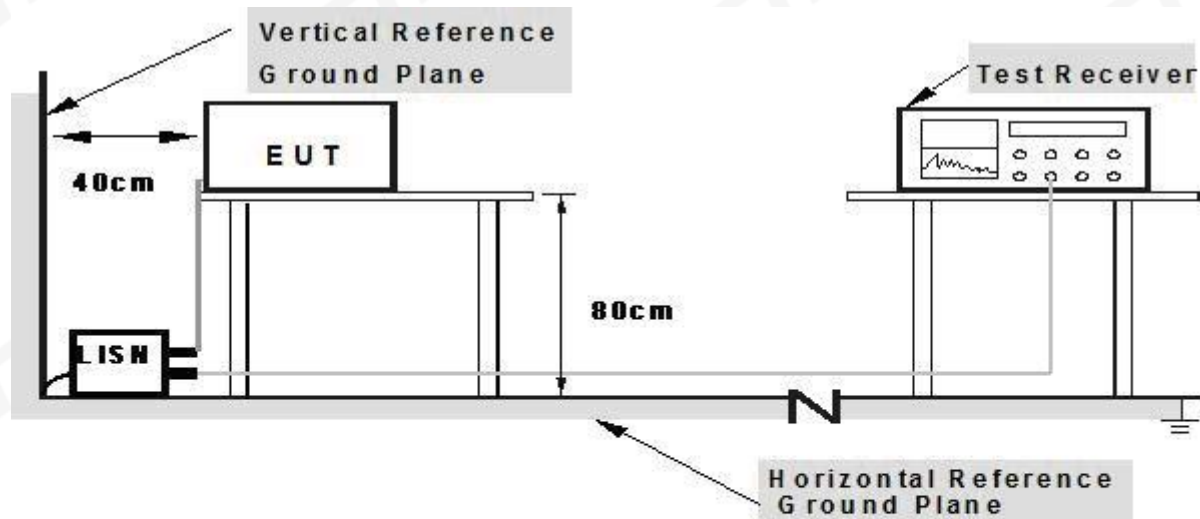
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment 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. 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 cm from other units and other metal planes

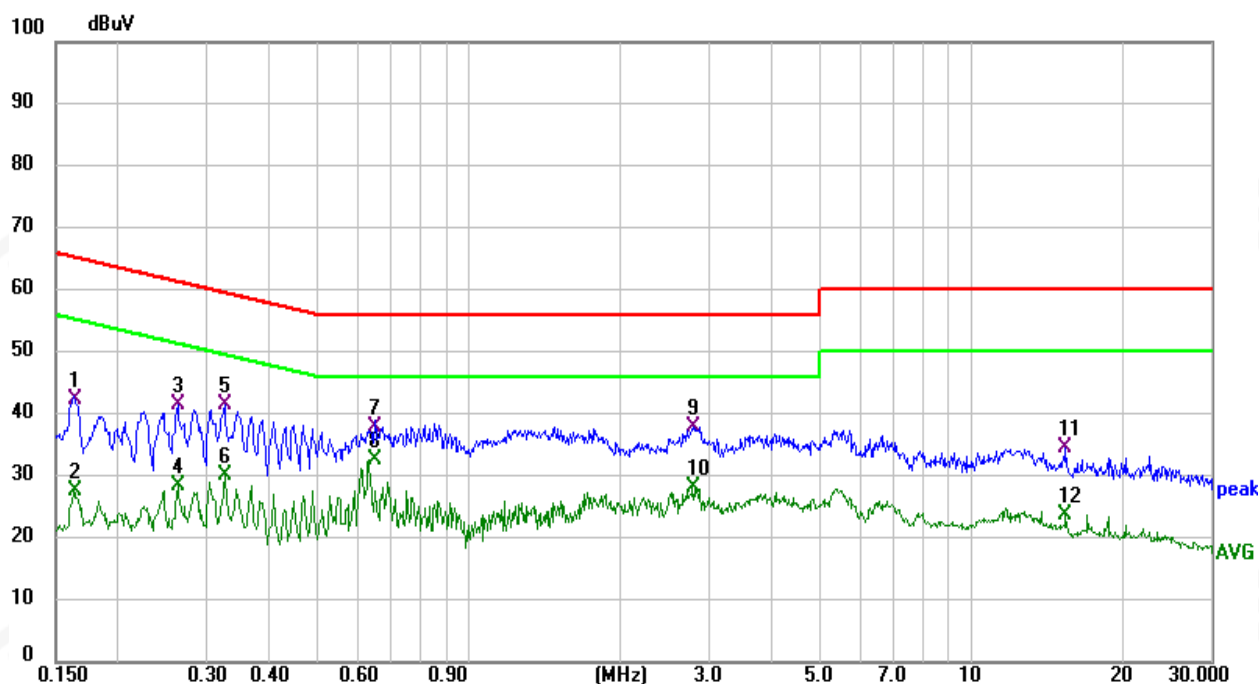
3.1.5 EUT OPERATING CONDITIONS

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

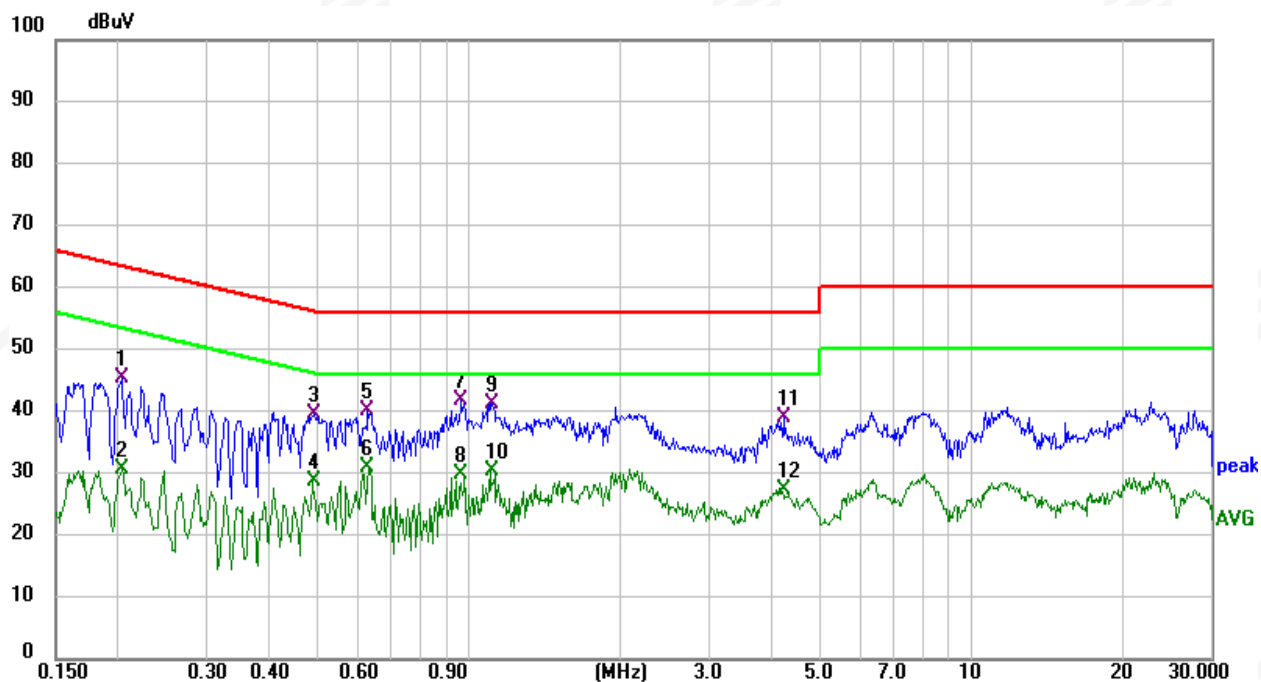
Temperature:	24.4℃	Relative Humidity:	55.6%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1633	23.04	19.38	42.42	65.29	-22.87	QP
2	0.1633	8.23	19.38	27.61	55.29	-27.68	AVG
3	0.2620	22.11	19.37	41.48	61.37	-19.89	QP
4	0.2620	9.06	19.37	28.43	51.37	-22.94	AVG
5	0.3260	22.04	19.36	41.40	59.55	-18.15	QP
6	0.3260	10.73	19.36	30.09	49.55	-19.46	AVG
7	0.6500	18.61	19.37	37.98	56.00	-18.02	QP
8	0.6500	13.20	19.37	32.57	46.00	-13.43	AVG
9	2.7900	18.64	19.39	38.03	56.00	-17.97	QP
10	2.7900	8.71	19.39	28.10	46.00	-17.90	AVG
11	15.3860	14.81	19.72	34.53	60.00	-25.47	QP
12	15.3860	3.90	19.72	23.62	50.00	-26.38	AVG



Temperature:	24.4℃	Relative Humidity:	55.6%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2020	26.00	19.39	45.39	63.53	-18.14	QP
2	0.2020	11.36	19.39	30.75	53.53	-22.78	AVG
3	0.4900	20.21	19.40	39.61	56.17	-16.56	QP
4	0.4900	9.34	19.40	28.74	46.17	-17.43	AVG
5	0.6260	20.66	19.37	40.03	56.00	-15.97	QP
6	0.6260	11.70	19.37	31.07	46.00	-14.93	AVG
7	0.9620	22.33	19.35	41.68	56.00	-14.32	QP
8	0.9620	10.38	19.35	29.73	46.00	-16.27	AVG
9	1.1100	21.95	19.35	41.30	56.00	-14.70	QP
10	1.1100	11.05	19.35	30.40	46.00	-15.60	AVG
11	4.2060	19.67	19.42	39.09	56.00	-16.91	QP
12	4.2060	7.96	19.42	27.38	46.00	-18.62	AVG

Remark:

1. Readings are Quasi-Peak (rows marked "QP") or Average values (rows marked "AVG").
2. Margin = Result (Result = Reading + Factor) - Limit.
3. Factor = Insertion loss + Cable loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A	☒ Class B	
	Field strength (dBuV/m) (at 3m)	Field strength (dBuV/m) (at 10m)	Field strength (dBuV/m) (at 3m)
30 ~ 88	49.5	30	40
88 ~ 216	54	33.5	43.5
216 ~ 960	56.9	36	46
Above 960	60	44	54

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	☐ Class A		☒ Class B			
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	64	44	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.

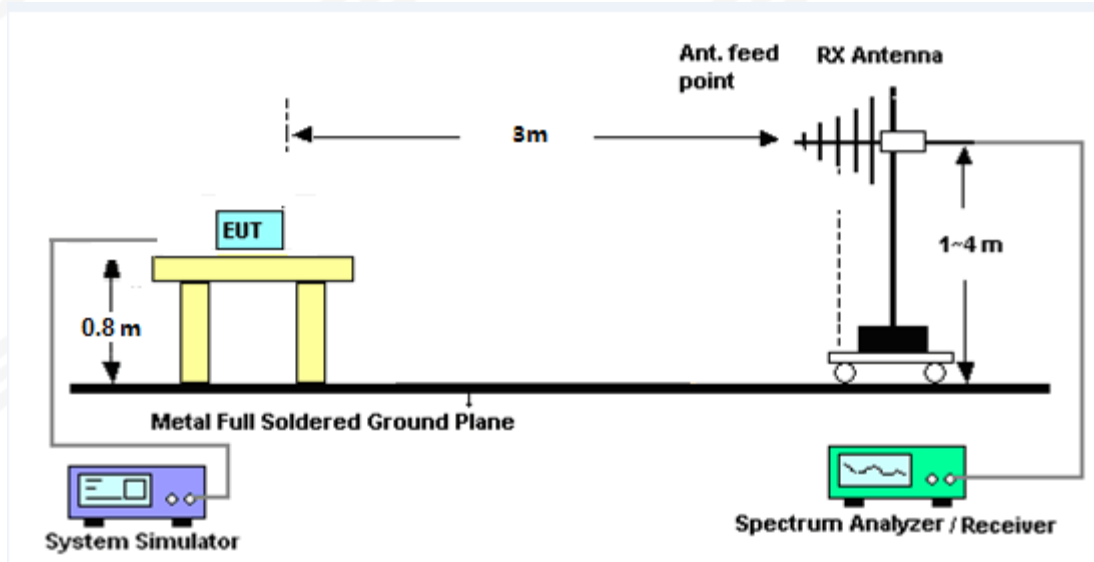
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

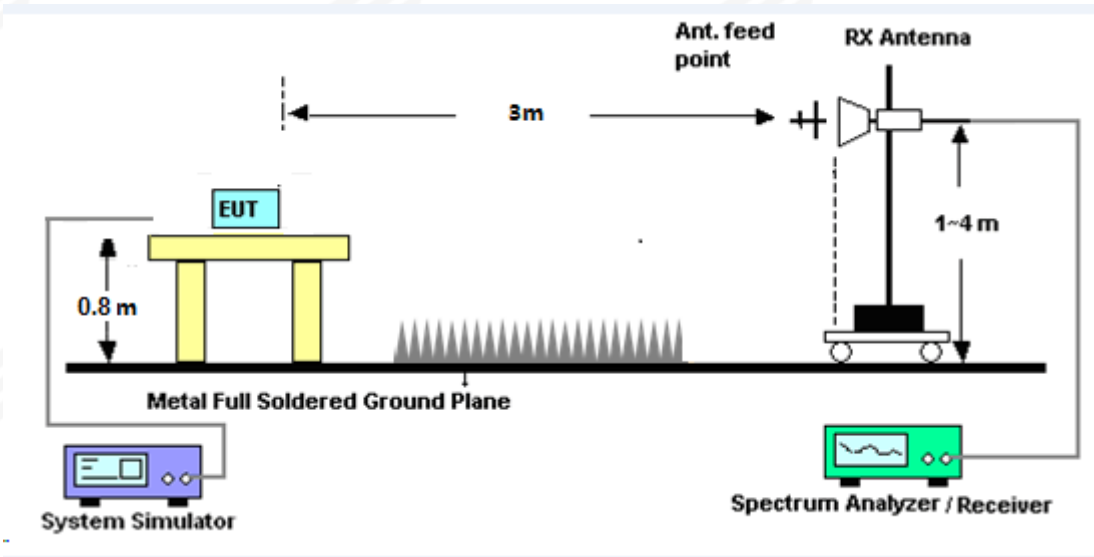
No deviation

3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 described unless otherwise a special operating condition is specified in the following during the testing.

**3.2.6 TEST RESULTS (30MHz-1000MHz)**

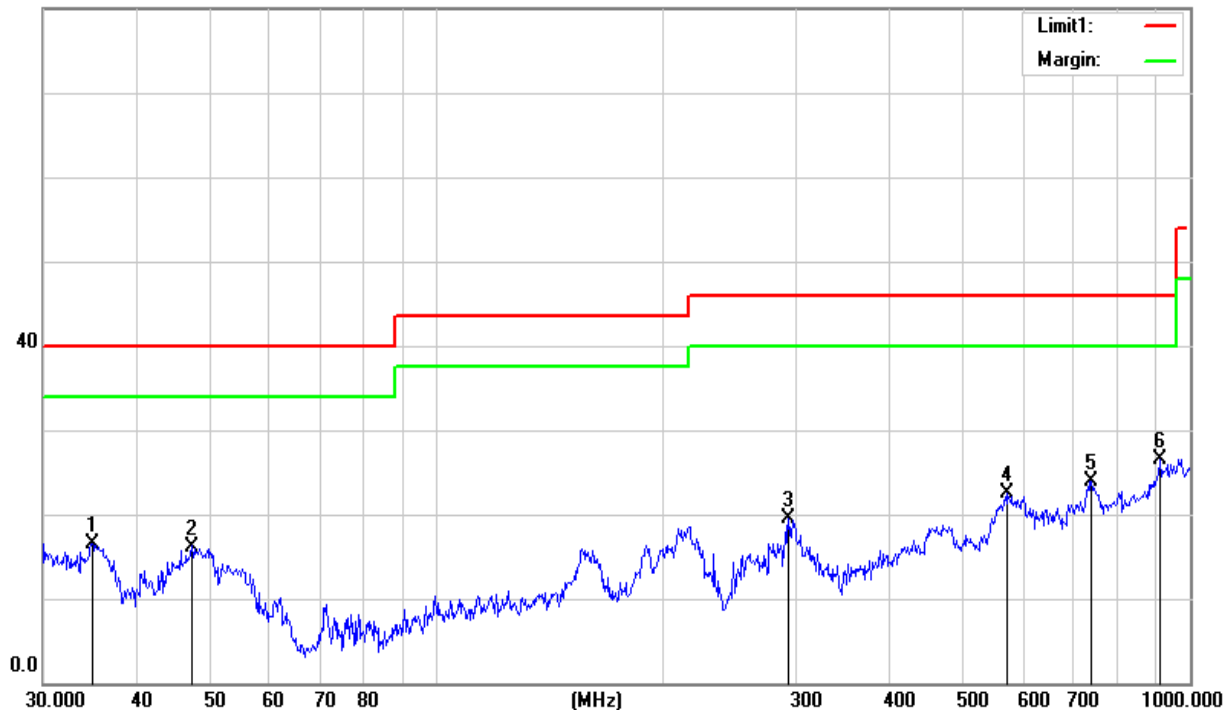
Temperature:	23.3℃	Relative Humidity:	51%
Phase:	Horizontal	Test Mode:	Mode 2
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.8823	30.34	-13.75	16.59	40.00	-23.41	QP
2	47.3253	36.50	-20.30	16.20	40.00	-23.80	QP
3	293.0842	36.11	-16.60	19.51	46.00	-26.49	QP
4	572.6144	31.04	-8.52	22.52	46.00	-23.48	QP
5	739.6603	28.28	-4.37	23.91	46.00	-22.09	QP
6	912.8620	29.50	-2.96	26.54	46.00	-19.46	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



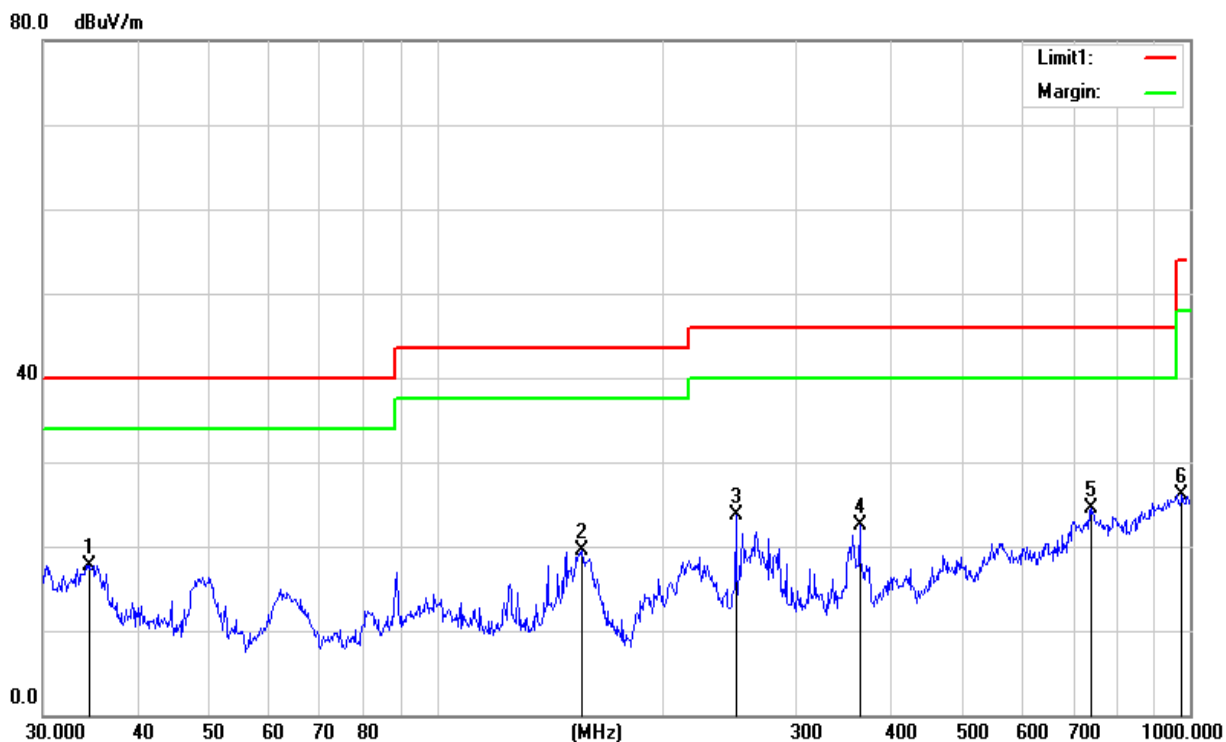


Temperature:	23.3°C	Relative Humidity:	51%
Phase:	Vertical	Test Mode:	Mode 2
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	34.6385	31.41	-13.62	17.79	40.00	-22.21	QP
2	155.9100	38.01	-18.42	19.59	43.50	-23.91	QP
3	249.4250	41.32	-17.53	23.79	46.00	-22.21	QP
4	364.2595	36.84	-14.29	22.55	46.00	-23.45	QP
5	739.6603	28.81	-4.37	24.44	46.00	-21.56	QP
6	975.7527	28.18	-2.06	26.12	54.00	-27.88	QP

Remark:

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



**3.2.7 TEST RESULT(1000-18000 MHz)**

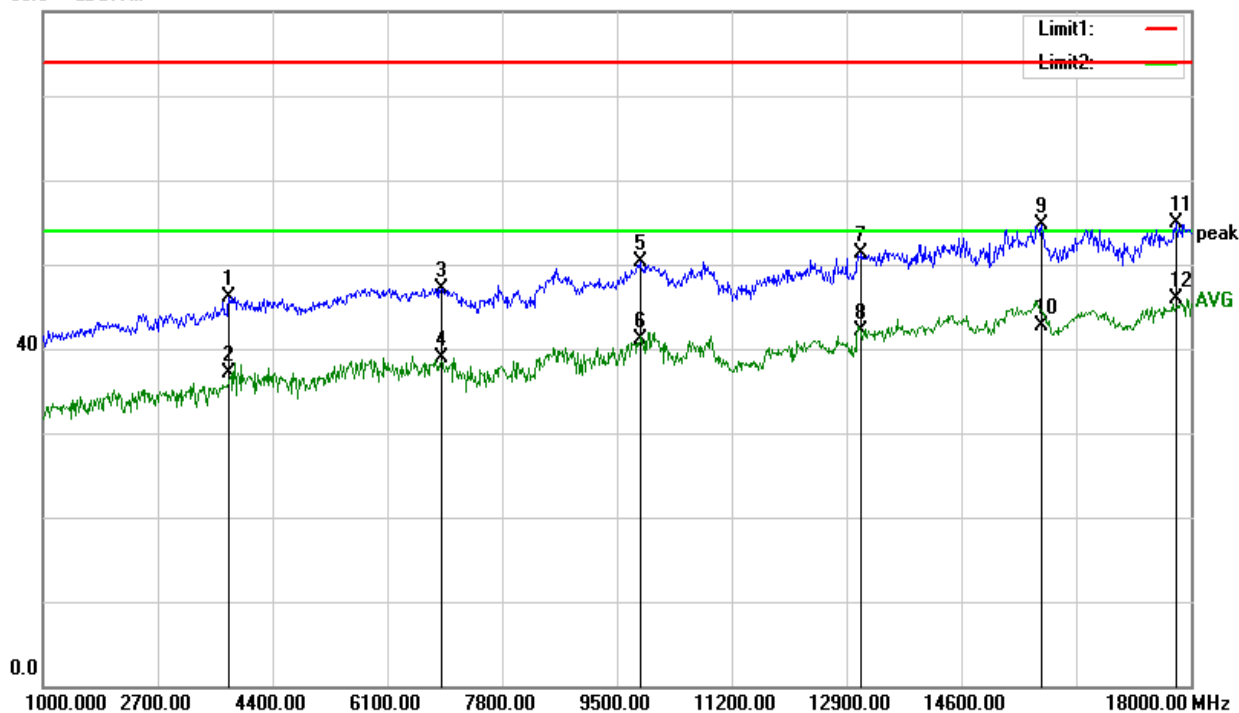
Temperature:	25.3℃	Relative Humidity:	53%
Phase:	Horizontal	Test Mode:	Mode 2
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3762.500	42.45	3.74	46.19	74.00	-27.81	peak
2	3762.500	33.28	3.74	37.02	54.00	-16.98	AVG
3	6907.500	36.51	10.57	47.08	74.00	-26.92	peak
4	6907.500	28.32	10.57	38.89	54.00	-15.11	AVG
5	9840.000	36.70	13.61	50.31	74.00	-23.69	peak
6	9840.000	27.46	13.61	41.07	54.00	-12.93	AVG
7	13129.500	35.91	15.39	51.30	74.00	-22.70	peak
8	13129.500	26.75	15.39	42.14	54.00	-11.86	AVG
9	15790.000	37.94	16.72	54.66	74.00	-19.34	peak
10	15790.000	25.95	16.72	42.67	54.00	-11.33	AVG
11	17787.500	30.64	24.24	54.88	74.00	-19.12	peak
12	17787.500	21.68	24.24	45.92	54.00	-8.08	AVG

Remark:

1. Readings are peak values (rows marked "peak") or average values (rows marked "AVG").
2. Margin = Result (Result =Reading + Factor)–Limit.
3. Factor= Cable Loss +Antenna Factor–Amplifier Gain.

80.0 dBuV/m





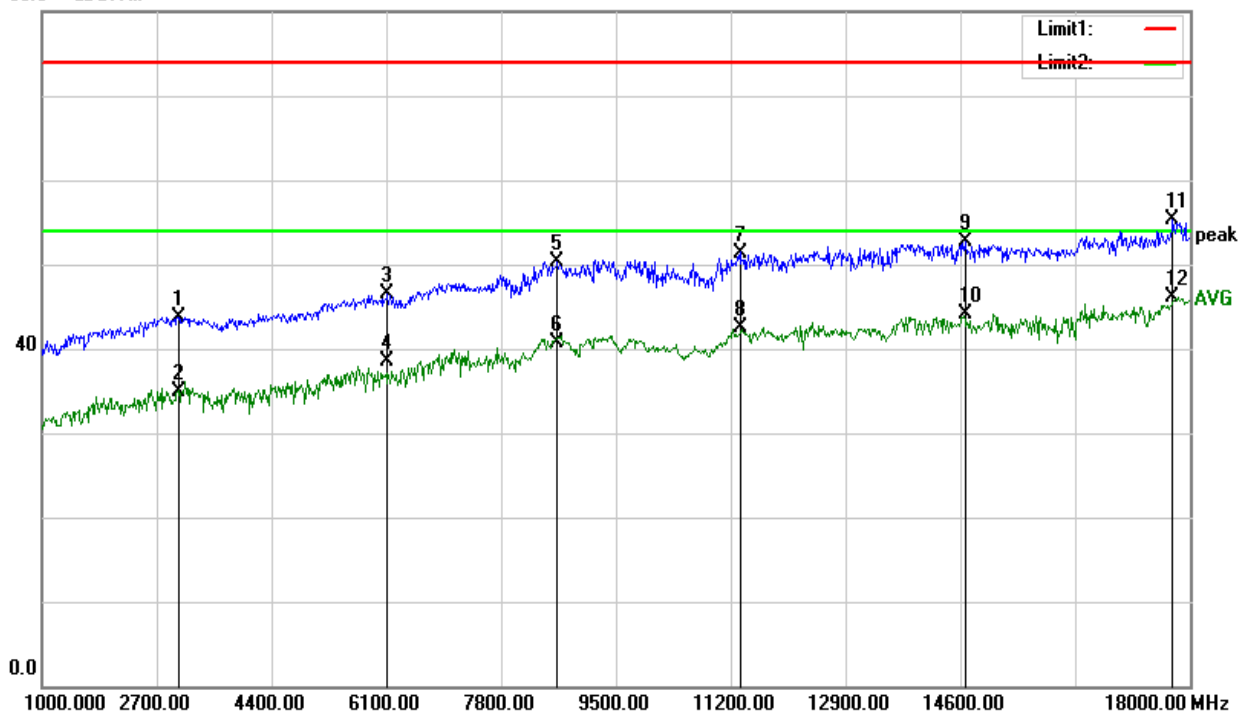
Temperature:	25.3℃	Relative Humidity:	53%
Phase:	Vertical	Test Mode:	Mode 2
Test Voltage:	DC 5V from Adapter	Test Date:	2026.04.02

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3031.500	41.42	2.21	43.63	74.00	-30.37	peak
2	3031.500	32.64	2.21	34.85	54.00	-19.15	AVG
3	6117.000	38.53	7.95	46.48	74.00	-27.52	peak
4	6117.000	30.53	7.95	38.48	54.00	-15.52	AVG
5	8641.500	37.18	13.18	50.36	74.00	-23.64	peak
6	8641.500	27.57	13.18	40.75	54.00	-13.25	AVG
7	11336.000	37.00	14.40	51.40	74.00	-22.60	peak
8	11336.000	28.06	14.40	42.46	54.00	-11.54	AVG
9	14668.000	34.66	18.08	52.74	74.00	-21.26	peak
10	14668.000	25.94	18.08	44.02	54.00	-9.98	AVG
11	17753.500	31.72	23.68	55.40	74.00	-18.60	peak
12	17753.500	22.48	23.68	46.16	54.00	-7.84	AVG

Remark:

1. Readings are peak values (rows marked "peak") or average values (rows marked "AVG").
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.



APPENDIX 1-PHOTO TEST OF EUT

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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