EMC TEST REPORT

Report No.: STS2405018E01

Issued for

BTECH (Baofeng Tech)

702N industrial Ave, Arlington, South Dakota, US

Product Name: Two way radio

Brand Name: BTECH

Model Name: UV-PRO

Series Model: N/A

FCC ID: 2AGND-UV-PRO

Test Standard: 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.



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Report No.:STS2405018E01

TEST REPORT

Applicant's Name	·:	BTECH	(Baofeng	Tech)			
Address		702N ind	ustrial Ave	, Arlington, Sou	uth Dakot	a, US	
Manufacture's Na	ıme:	втесн	(Baofeng	Tech)			
Address	:	702N ind	ustrial Ave	, Arlington, Soບ	uth Dakot	a, US	
Product Descript	ion:						
Product Name	:	Two way	radio				
Brand Name	:	BTECH					
Model Name		UV-PRO					
Series Model	:	N/A					
Standards	:	FCC 47 (CFR Part 1	5: Subpart B			
Test Procedure	:	ANSI C6	3.4-2014				
The test results pre reproduced, except							
Date of Test		:					
Date of Receipt of	Test Item	:	14 July 2	023			
Date of Performan	ce of Tests	:	14 July 2	023 ~ 14 May 2	2024		
Date of Issue		:	14 May 2	024			
Test Result		:	Pass				
				<i>(</i>)	2		
	Testing Engi	neer :		Stan · D	leng		
				(Star Den		TEST S	ER.
	Technical Ma	anager :		Chins a	her i		ERVICE'S CO
				(Chris Che	en)	TESTING APPI	ROVAL
	Authorized S	ignatory:		(Chris Che	uny	3).8'J

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	08 Jan. 2024	STS2307060E02	ALL	Initial Issue
00	14 May 2024	STS2405018E01	ALL	Add 88-108MHz and 108-136MHz frequency bands



1. SUMMARY OF THE TEST RESULTS

Test procedures according to the technical standards:

EMISSION						
Standard	Item	Result	Remarks			
Part 15.107	Conducted Emission	PASS	N/A			
Part 15.109	Radiated Emission	PASS	N/A			
Part 15.111	Antenna Conducted Power for receivers	PASS	N/A			
Part 15.121(b)	Scanning receivers and frequency converters used with scanning receivers	PASS	N/A			

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NOTE:

(1) N/A=Not Applicable.

1.1 TEST FACTORY

Company Name:	SHENZHEN STS TEST SERVICES CO.,LTD.
Address:	101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanCheng Shequ, Fuhai 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-150KHz)	±2.19dB
2	Conducted Emission (150KHz-30MHz)	±2.53dB
3	All emissions,radiated(<1G) 30MHz-1000MHz	±4.18dB
4	All emissions,radiated(>1G) 1GHz-6GHz	±4.90dB
5	All emissions,radiated(>1G) 6GHz-18GHz	±5.24dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Two way radio
Brand Name	втесн
Model Name	UV-PRO
Series Model	N/A
Model Difference	N/A
Product Description	The EUT is a Two way radio 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	Scanning Receiver : 88-108MHz(FM)/ 108-136MHz(VHF) / 136-174(VHF)/400-520MHz(UHF)
Modulation Mode	Scanning Receiver : F3E
Raing	Input: DC 5V Output: 5W
Battery	Rated Voltage: 7.4V Charge Limit Voltage: 5V Capacity: 2600mAh
Hardware Version Number	0.6.2
Software Version Number	1.0

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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	Scanning mode
Mode 2	Scanning stopped/Receiving at low channel of 136 MHz -174 MHz
Mode 3	Scanning stopped/Receiving at middle channel of 136 MHz -174 MHz
Mode 4	Scanning stopped/Receiving at high channel of 136 MHz -174 MHz
Mode 5	Scanning stopped/Receiving at low channel of 400 MHz -520 MHz
Mode 6	Scanning stopped/Receiving at middle channel of 400 MHz -520 MHz
Mode 7	Scanning stopped/Receiving at high channel of 400 MHz -520 MHz
Mode 8	Scanning stopped/Receiving at low channel of 88 MHz -108 MHz
Mode 9	Scanning stopped/Receiving at middle channel of 88 MHz -108 MHz
Mode 10	Scanning stopped/Receiving at high channel of 88 MHz -108 MHz
Mode 11	Scanning stopped/Receiving at low channel of 108 MHz -136 MHz
Mode 12	Scanning stopped/Receiving at middle channel of 108 MHz -136 MHz
Mode 13	Scanning stopped/Receiving at high channel of 108 MHz -136 MHz

For Conducted Test				
Final Test Mode Description				
Mode 1 Scanning mode				

For Radiated Test				
Final Test Mode Description				
Mode 1	Scanning mode			

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.



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
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
1	Adapter	HUAWEI	HW-050450C00	N/A	N/A
2	DC Cable	N/A	N/A	80cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> 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.

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Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until	
EMI Test Receiver	R&S	ESCI	101427	2023.9.25	2024.9.24	
Bi-log Antenna	TESEQ	CBL6111D	45873	2023.9.27	2024.9.26	
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2023.9.27	2024.9.26	
Pre-amplifier(1G-26.5G)	Agilent	HP8449B	3008A02383	2023.2.28	2024.2.27	
Pre-amplifier(0.1M-3GHz)	EM	EM330	060665	2023.2.28	2024.2.27	
Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.9.26	2024.9.25	
RE Cable (9K-1G)	N/A	R01	N/A	2023.9.25	2024.9.24	
RE Cable (1G-26G)	N/A	R02	N/A	2023.9.25	2024.9.24	
Temperature & Humidity	Mieo	HH660	N/A	2023.9.28	2024.9.27	
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	2023.9.25	2024.9.24	
LISN	R&S	AiT-F01220	8130179	2023.9.25	2024.9.24	
Absorbing Clamp	R&S	MDS-21	100668	2023.2.28	2024.2.27	
CE Cable	N/A	C01	N/A	2023.9.25	2024.9.24	
EMF Antenna	SCHWARZBECK	VDHH 9502	147	2023.9.25	2024.9.24	
Temperature & Humidity	Mieo HH660 N/A 2023.9.28 2024.9.27					
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)	□Class /	□Class A (dBμV)		B (dBμV)
FREQUENCT (MITZ)	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		



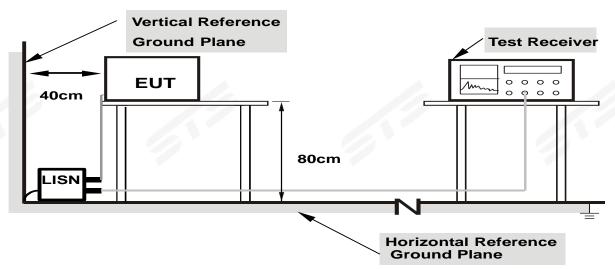
3.1.2 TEST PROCEDURE

- 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.

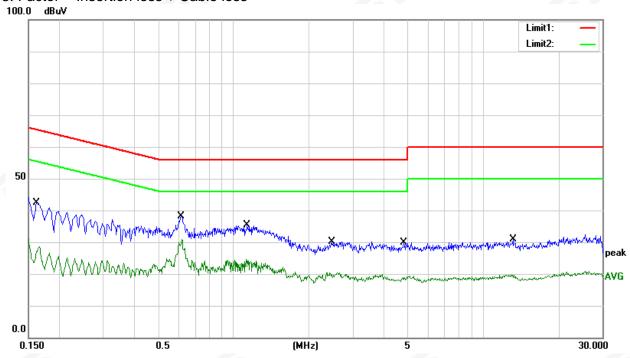


3.1.6 TEST RESULTS

Temperature:	25.8℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.10

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	22.14	20.33	42.47	65.36	-22.89	QP
2	0.1620	10.87	20.33	31.20	55.36	-24.16	AVG
3	0.6140	17.73	20.43	38.16	56.00	-17.84	QP
4	0.6140	10.52	20.43	30.95	46.00	-15.05	AVG
5	1.1300	14.99	20.30	35.29	56.00	-20.71	QP
6	1.1300	4.26	20.30	24.56	46.00	-21.44	AVG
7	2.4660	9.77	20.32	30.09	56.00	-25.91	QP
8	2.4660	0.17	20.32	20.49	46.00	-25.51	AVG
9	4.8220	9.43	20.45	29.88	56.00	-26.12	QP
10	4.8220	-1.16	20.45	19.29	46.00	-26.71	AVG
11	13.1340	9.33	21.53	30.86	60.00	-29.14	QP
12	13.1340	-1.80	21.53	19.73	50.00	-30.27	AVG

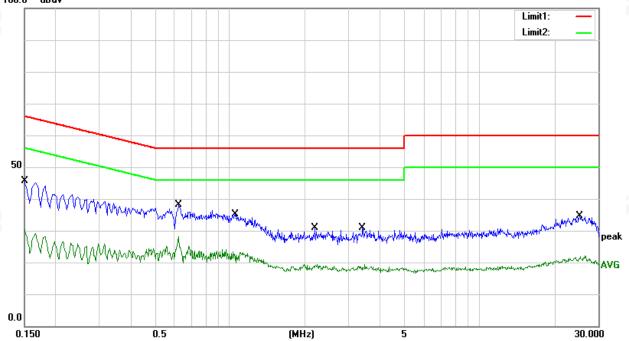
- All readings are Quasi-Peak and Average values
 Margin = Result (Result = Reading + Factor) Limit
- 3. Factor = Insertion loss + Cable loss



Temperature:	25.8℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.10

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	25.34	20.33	45.67	66.00	-20.33	QP
2	0.1500	10.12	20.33	30.45	56.00	-25.55	AVG
3	0.6220	17.82	20.42	38.24	56.00	-17.76	QP
4	0.6220	7.65	20.42	28.07	46.00	-17.93	AVG
5	1.0540	14.90	20.30	35.20	56.00	-20.80	QP
6	1.0540	3.95	20.30	24.25	46.00	-21.75	AVG
7	2.1980	10.49	20.31	30.80	56.00	-25.20	QP
8	2.1980	-0.89	20.31	19.42	46.00	-26.58	AVG
9	3.4060	10.48	20.37	30.85	56.00	-25.15	QP
10	3.4060	-1.07	20.37	19.30	46.00	-26.70	AVG
11	25.3100	11.96	22.62	34.58	60.00	-25.42	QP
12	25.3100	-0.53	22.62	22.09	50.00	-27.91	AVG

- All readings are Quasi-Peak and Average values
 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		⊠Class B	
(MHz)	Field strength Field strength (dBuV/m) (at 10m) (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)
30 ~ 88	39	49.5	40
88 ~ 216	43.5	54	43.5
216 ~ 960	46.4	56.9	46
Above 960	49.5	60	54

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

		□Cla	ass A		⊠Class B	
Frequency (MHz)	(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 (Miliz)
(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

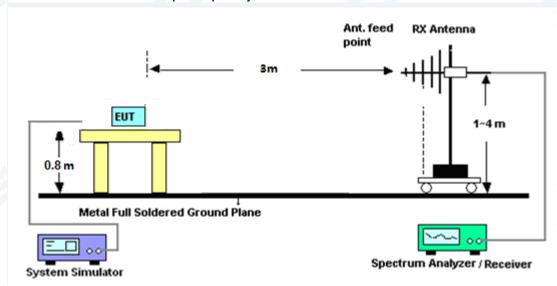
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

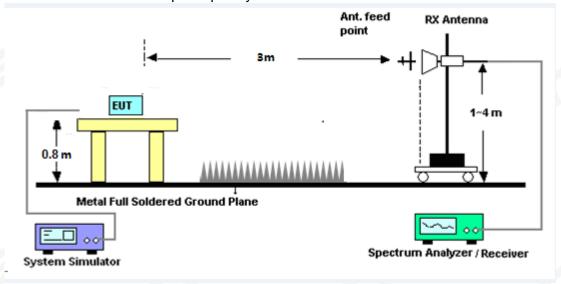


3.2.4 TEST SETUP

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



(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:	25.3℃	Relative Humidity:	43%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.08

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.7454	28.58	-11.45	17.13	40.00	-22.87	QP
2	95.0930	42.05	-20.75	21.30	43.50	-22.20	QP
3	188.4124	56.70	-21.43	35.27	43.50	-8.23	QP
4	215.0478	60.75	-20.54	40.21	43.50	-3.29	QP
5	316.5890	44.45	-14.99	29.46	46.00	-16.54	QP
6	968.9338	30.07	-1.98	28.09	54.00	-25.91	QP

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





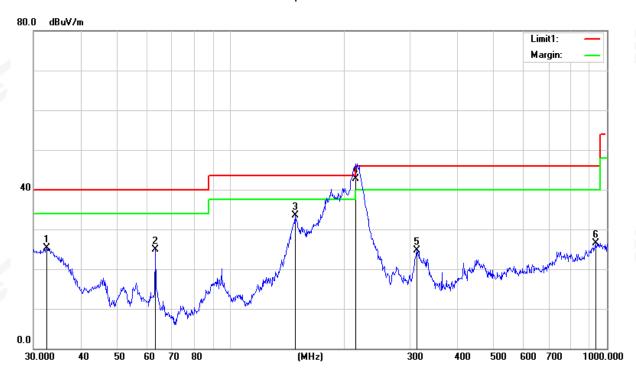
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Temperature:	25.3℃	Relative Humidity:	43%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.08

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.5197	37.80	-12.44	25.36	40.00	-14.64	QP
2	63.3132	50.84	-25.94	24.90	40.00	-15.10	QP
3	148.4410	51.72	-18.18	33.54	43.50	-9.96	QP
4	215.6678	63.06	-20.42	42.64	43.50	-0.86	QP
5	312.1792	40.13	-15.33	24.80	46.00	-21.20	QP
6	932.2714	29.03	-2.53	26.50	46.00	-19.50	QP

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





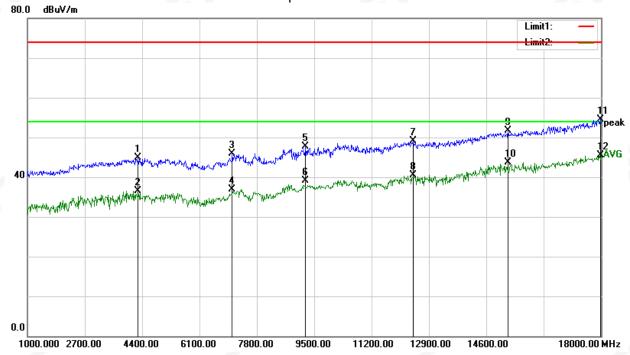


(1 GHz - 18GHz)

Temperature:	25.3℃	Relative Humidity:	43%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.08

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	4289.500	40.24	4.58	44.82	74.00	-29.18	Peak
2	4289.500	31.94	4.58	36.52	54.00	-17.48	AVG
3	7077.500	34.88	10.93	45.81	74.00	-28.19	Peak
4	7077.500	26.07	10.93	37.00	54.00	-17.00	AVG
5	9245.000	33.74	13.97	47.71	74.00	-26.29	Peak
6	9245.000	25.22	13.97	39.19	54.00	-14.81	AVG
7	12441.000	33.57	15.46	49.03	74.00	-24.97	Peak
8	12441.000	25.01	15.46	40.47	54.00	-13.53	AVG
9	15254.500	34.15	17.62	51.77	74.00	-22.23	Peak
10	15254.500	26.11	17.62	43.73	54.00	-10.27	AVG
11	17983.000	30.05	24.47	54.52	74.00	-19.48	Peak
12	17983.000	21.01	24.47	45.48	54.00	-8.52	AVG

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





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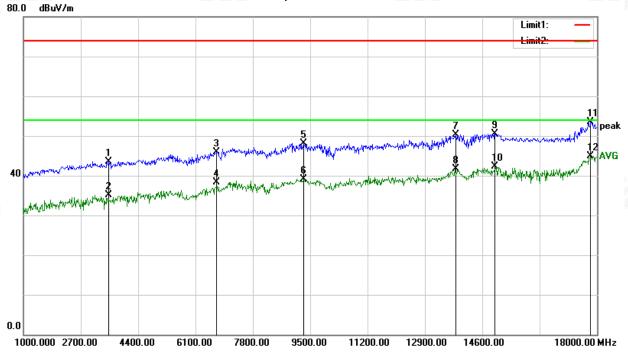
Report No.:STS2405018E01

Temperature:	25.3℃	Relative Humidity:	43%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz	Test Date:	2023.08.08

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3541.500	40.87	2.65	43.52	74.00	-30.48	Peak
2	3541.500	32.49	2.65	35.14	54.00	-18.86	AVG
3	6729.000	35.59	10.28	45.87	74.00	-28.13	Peak
4	6729.000	28.07	10.28	38.35	54.00	-15.65	AVG
5	9321.500	34.17	13.91	48.08	74.00	-25.92	Peak
6	9321.500	25.14	13.91	39.05	54.00	-14.95	AVG
7	13818.000	33.55	16.67	50.22	74.00	-23.78	Peak
8	13818.000	24.99	16.67	41.66	54.00	-12.34	AVG
9	14982.500	32.66	17.80	50.46	74.00	-23.54	Peak
10	14982.500	24.42	17.80	42.22	54.00	-11.78	AVG
11	17813.000	29.08	24.39	53.47	74.00	-20.53	Peak
12	17813.000	20.50	24.39	44.89	54.00	-9.11	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



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.

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4. ANTENNA CONDUCTED power FOR RECEIVERS

4.1 LIMIT

The antenna conducted power of the receiver as defined in pasrt 15.111 shall not exceed the values given in the following tables

Frequency Range	Limit	
9 kHz to 5 GHz	2.0nW(-57 dBm)	

4.2 TEST PROCEDURE

- 1. The receiver antenna terminal connected to a spectrum analyzer.
- 2. The test data of the worst case condition (mode 1) was reported on the following Data page.

4.3 TEST SETUP



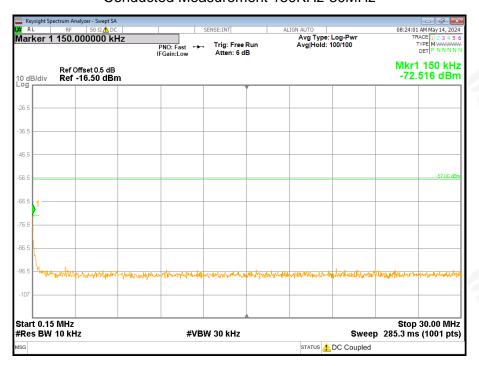


4.4 TEST RESULTS





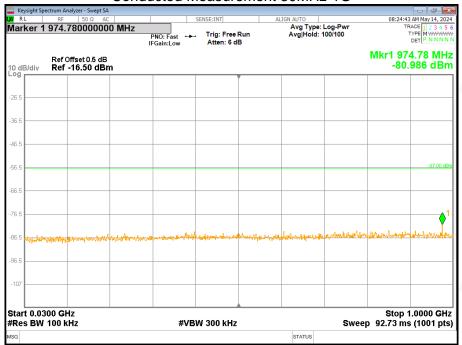
Conducted Measurement 150KHz-30MHz



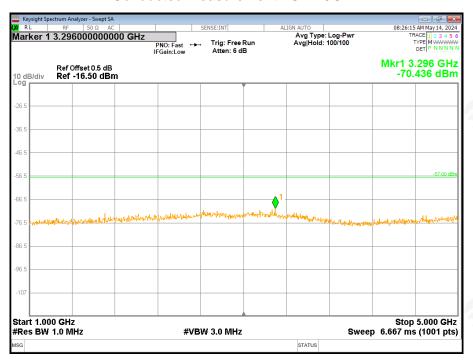




Conducted Measurement 30MHz-1G



Conducted Measurement 1GHz-5GHz





5. SCANNING RECEIVERS AND FREQUENCY CONVERITERS USED WITH SCANNING RECEIVERS

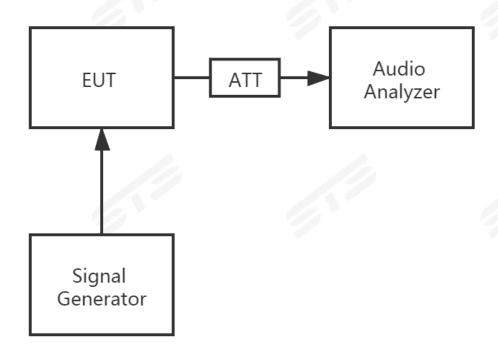
5.1 LIMIT

Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

5.2 TEST PROCEDURE

Please review the FCC Part 15.121(b) section requirement to meet the test process

5.3 TEST SETUP





5.4 TEST RESULTS

Frequency Range (MHz)	Channel	Measurement Result(dB)	Limit
88-108	Low/Middle/High	46	>38
108-136	Low/Middle/High	49	>38
136-174	Low/Middle/High	45	>38
400-520	Low/Middle/High	51	>38

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