



TEST REPORT

For FCC Part15B

Report No..... : CHTW26085072

Project No : SHT2607078101W

FCC ID : 2ASNS691

Applicant's name : Shenzhen Retevis Technology Co., Ltd.

Address..... : 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

Product Name : Two Way Radio

Trade Mark..... : RETEVIS

Model No..... : RT56B

Listed Model(s) : RT56

Standard : **FCC CFR Title 47 Part 15 Subpart B**

Date of receipt of test sample..... : 2026/7/27

Date of testing..... : 2026/8/3 - 2026/8/27

Date of issue..... : 2026/8/27

Result..... : **PASS**



CHTW26085072

Compiled by (Position+Printed name+Signature) :	File administrator	Xiaodong Zhao	<i>Xiaodong Zhao</i>
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Approved by (Position+Printed name+Signature) :	RF Manager	Xu Yang	<i>Xu Yang</i>

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Test Report Form No. : R0066

Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

Master TRF : Dated 2025-07

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC CFR Title 47 Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2014](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version

Revision No.	Date of issue	Description
N/A	2026-08-27	Original

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result	Test Engineer
5.1	Conducted Emissions	15.107(a)	Pass	Junxu Lin
5.2	Radiated Emissions	15.109(a)	Pass	Jiachuo Liang Junman Wang
5.3	Antenna conducted power for receiver	15.111	Pass	Caspar Chen

Note:

1. The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

3.2. Product Description

Main unit	
Product Name:	Two Way Radio
Trade Mark:	RETEVIS
Model No.:	RT56B
Listed Model(s):	RT56
Power supply:	DC 7.4V from battery
Hardware version:	6PD7-5871-HMC
Software version:	M-5871HM-C210816
Ancillary unit	
Battery information:	Model:BL56B DC7.4V 1800mAh 13.32Wh
Adapter information:	MODEL:DLD-12005-M INPUT:100-240V~50/60Hz 0.3A OUTPUT:DC12V 0.5A
Charger information:	Model:DC56B Input:DC12V $\pm$ 2.5V 450mA Output:DC8.4V 400mA

3.3. Radio Specification Description

Receive Frequency Range:	400MHz ~ 470MHz
Modulation Type:	FM

Note: only show the receive specification.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. EUT operation mode

Test mode	Describe
Charging mode	Keep the EUT in charging mode, but the EUT shut down.
Scan receive mode	Scanning stopped, receiving signal at 462.6750MHz

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report.

Test item	Test mode
Conducted emissions	Charging mode
Radiated emissions	scan receive mode
Antenna conducted power for receiver	scan receive mode

4.2. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Radiated Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

● EMC Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	Conducted Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Emission	TS+	Tonscend	/	V5.0.0

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2026/7/10	2027/7/9
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2026/7/6	2027/7/5
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2026/7/6	2027/7/5
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2026/7/6	2027/7/5
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2026/7/6	2027/7/5

● Radiated Emission - 30MHz~1GHz 3M							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2026/3/24	2029/3/23
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2026/7/10	2027/7/9
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2025/12/16	2028/12/15
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2026/5/12	2027/5/11
●	CMAD	SCHWARZBECK	HTWE0537	CMAD1614	1614-530	2026/8/3	2027/8/2

● Radiated emission-Above 1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Full-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11122	2026/3/19	2029/3/18
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2026/7/10	2027/7/9
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2026/1/23	2029/1/22
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2026/5/12	2027/5/11

● Antenna conducted power for receiver							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2026/7/6	2027/7/5

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions

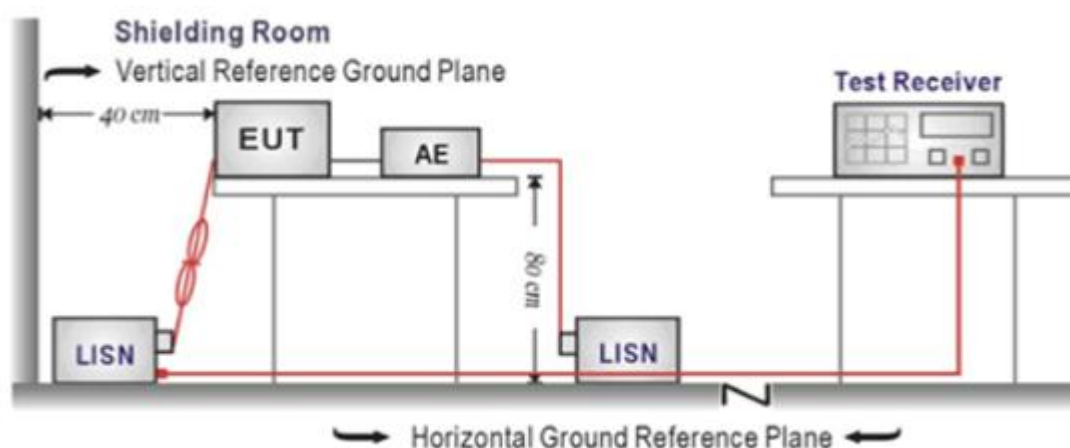
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4:2014
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

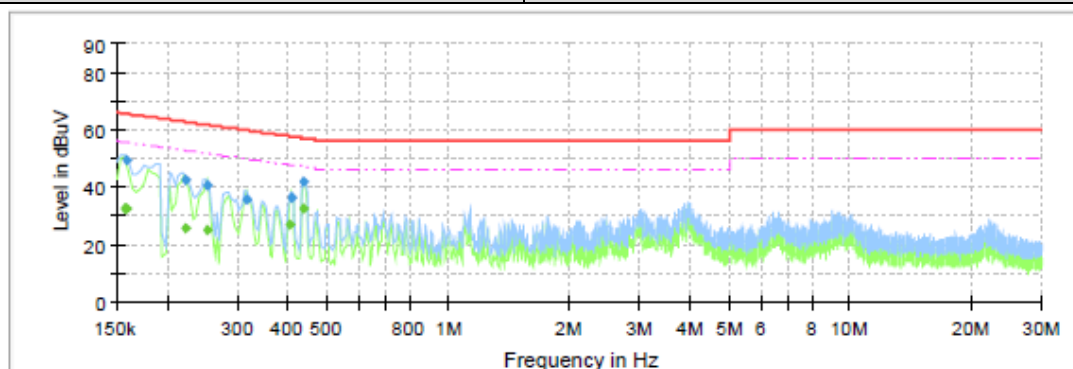
Please refer to the clause 4.1

TEST RESULTS

☒ Passed ☐ Not Applicable

Test Line:

L

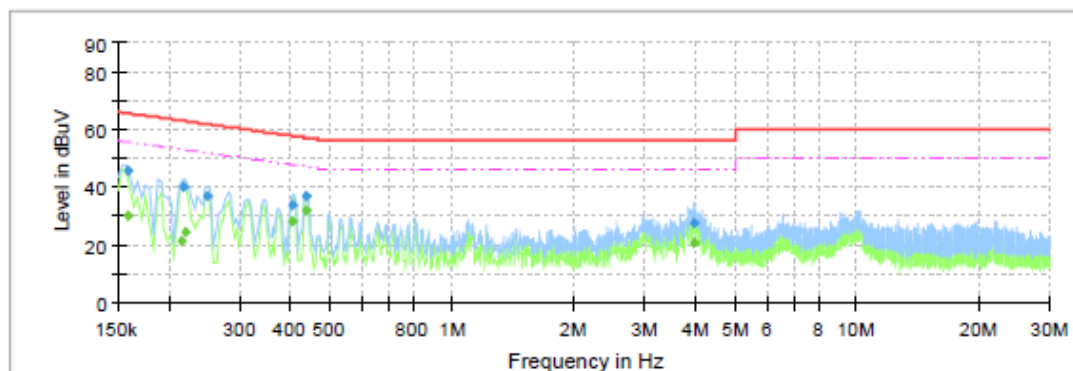


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.157350	---	32.40	55.60	23.20	L1	10.0
0.158000	---	32.56	55.57	23.01	L1	10.0
0.158000	49.16	---	65.57	16.41	L1	10.0
0.222394	42.32	---	62.73	20.41	L1	10.1
0.222394	---	25.58	52.73	27.15	L1	10.1
0.252244	40.70	---	61.68	20.99	L1	10.1
0.252244	---	25.28	51.68	26.40	L1	10.1
0.315675	35.84	---	59.82	23.98	L1	10.2
0.404956	---	27.00	47.75	20.75	L1	10.2
0.408956	36.03	---	57.67	21.64	L1	10.2
0.438538	41.59	---	57.09	15.50	L1	10.2
0.438806	---	32.68	47.08	14.41	L1	10.2

Test Line:

N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	29.83	55.57	25.74	N	10.0
0.158000	45.67	---	65.57	19.90	N	10.0
0.214394	---	21.32	53.03	31.71	N	10.0
0.218394	40.29	---	62.88	22.59	N	10.1
0.218662	---	24.44	52.87	28.43	N	10.1
0.248244	36.58	---	61.82	25.24	N	10.1
0.404956	33.99	---	57.75	23.76	N	10.1
0.404956	---	28.35	47.75	19.40	N	10.1
0.438806	36.58	---	57.08	20.51	N	10.1
0.438806	---	31.74	47.08	15.35	N	10.1
3.949106	27.61	---	56.00	28.39	N	10.1
3.969106	---	20.40	46.00	25.60	N	10.1

5.2. Radiated Emissions

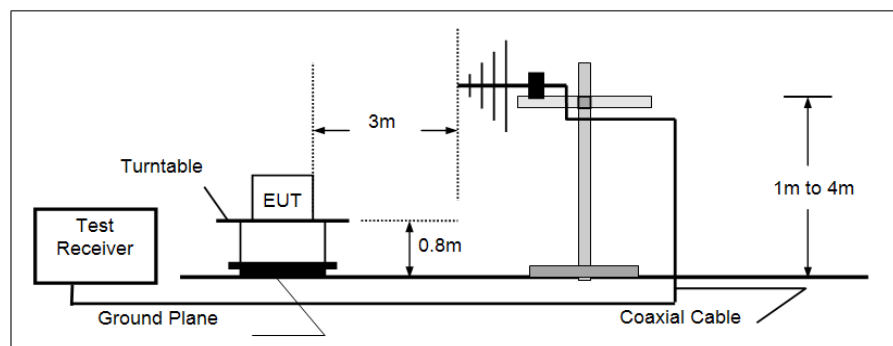
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

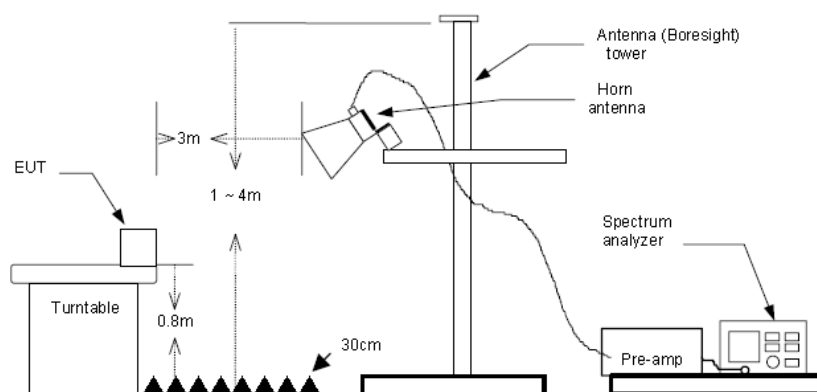
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground.
3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

TEST MODE:

Please refer to the clause 4.1

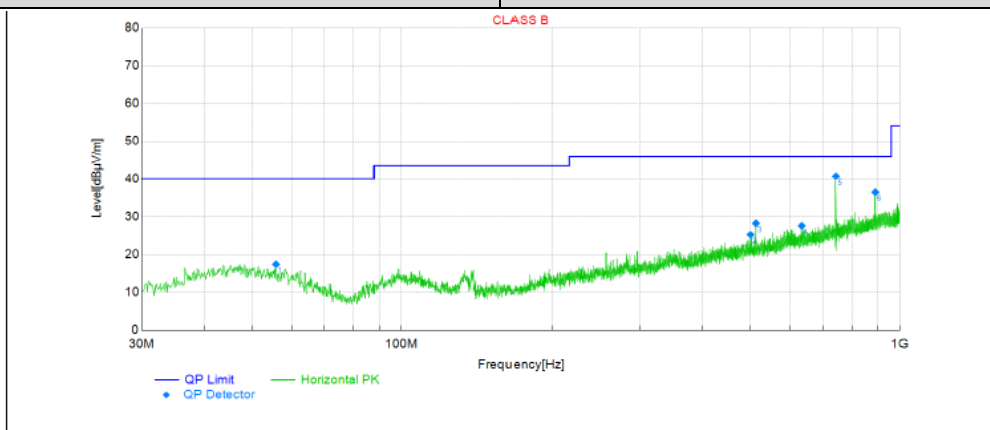
TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

Polarization:

Horizontal

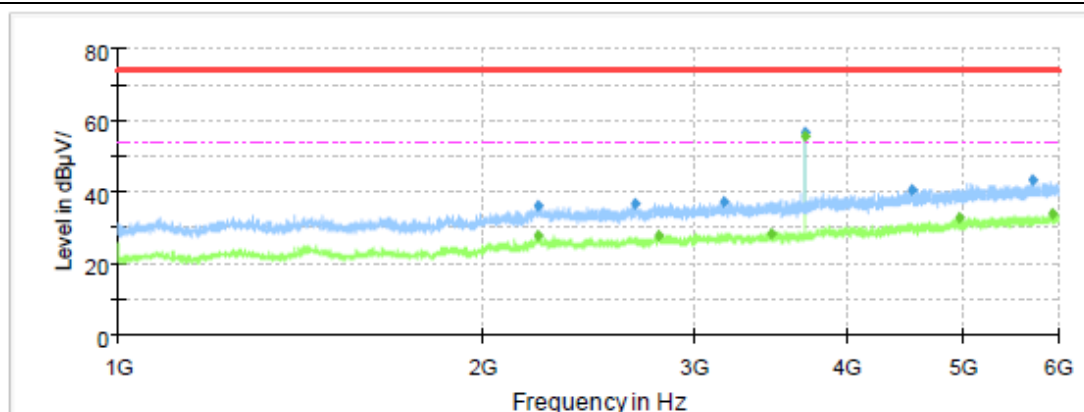


Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	55.9475	-9.31	26.77	17.46	40.00	22.54	100	145	Horizontal
2	500.0863	-1.97	27.22	25.25	46.00	20.75	100	145	Horizontal
3	513.0600	-1.71	29.99	28.28	46.00	17.72	100	179	Horizontal
4	634.4313	1.20	26.42	27.62	46.00	18.38	100	89	Horizontal
5	742.5863	3.62	37.1	40.72	46.00	5.28	100	26	Horizontal
6	890.9963	6.32	30.22	36.54	46.00	9.46	100	72	Horizontal

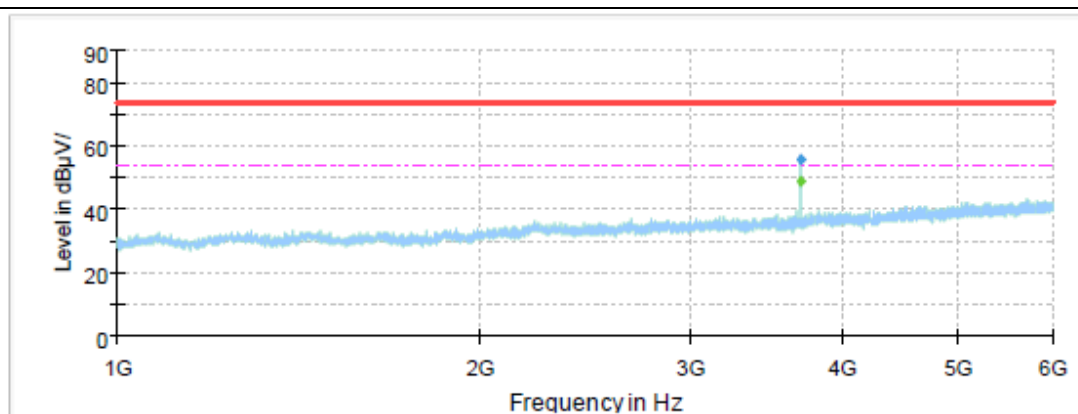
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level



Final Result

Frequency (MHz)	MaxPeak (dB _i μV/m)	Average (dB _i μV/m)	Limit (dB _i μV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2221.250000	36.34	---	74.00	37.66	150.0	H	78.0	-8.5
2226.875000	---	27.56	54.00	26.44	150.0	H	180.0	-8.5
2675.000000	36.78	---	74.00	37.22	150.0	H	89.0	-8.0
2800.000000	---	27.67	54.00	26.33	150.0	H	147.0	-7.6
3174.375000	37.46	---	74.00	36.54	150.0	H	180.0	-6.5
3466.250000	---	28.55	54.00	25.45	150.0	H	66.0	-6.4
3700.625000	---	55.76	54.00	-1.76	150.0	H	55.0	-5.6
3700.625000	56.44	---	74.00	17.56	150.0	H	55.0	-5.6
4543.125000	40.76	---	74.00	33.24	150.0	H	173.0	-2.5
4969.375000	---	32.75	54.00	21.25	150.0	H	159.0	-1.1
5715.000000	43.07	---	74.00	30.93	150.0	H	147.0	0.5
5931.875000	---	33.94	54.00	20.06	150.0	H	147.0	1.3

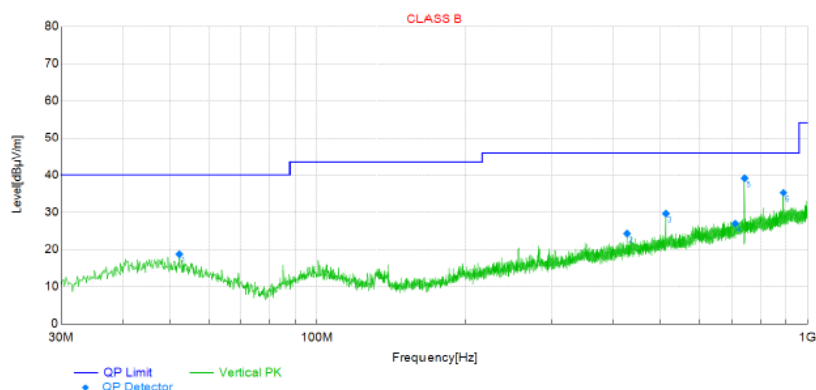


Final Result

Frequency (MHz)	MaxPeak (dB _i IV/m)	Average (dB _i IV/m)	Limit (dB _i IV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3701.419375	---	48.75	54.00	5.25	150.0	H	251.0	-5.6
3701.419375	55.70	---	74.00	18.30	150.0	H	251.0	-5.6

Polarization:

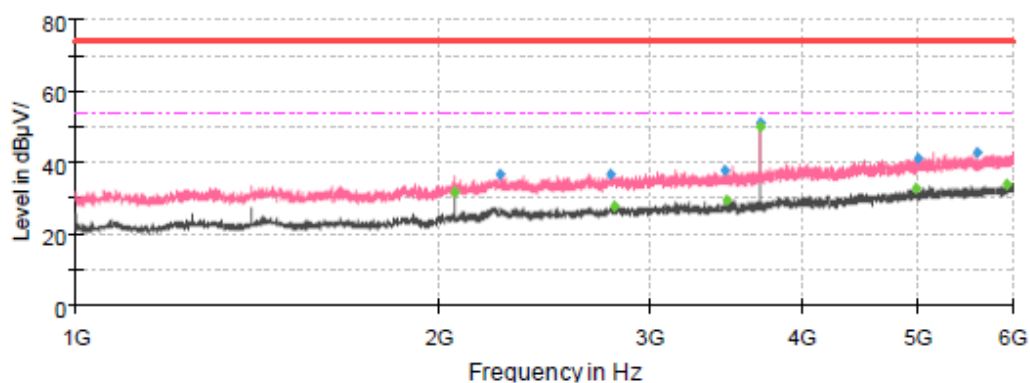
Vertical



Final Data List									
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	52.3100	-8.74	27.48	18.74	40.00	21.26	100	107	Vertical
2	427.4575	-3.57	27.83	24.26	46.00	21.74	100	117	Vertical
3	513.0600	-1.71	31.31	29.60	46.00	16.40	100	117	Vertical
4	709.9700	2.38	24.62	27.00	46.00	19.00	100	44	Vertical
5	742.5863	3.62	35.48	39.10	46.00	6.90	100	26	Vertical
6	890.9963	6.32	28.94	35.26	46.00	10.74	100	62	Vertical

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2062.500000	---	31.42	54.00	22.58	150.0	V	9.0	-10.0
2249.375000	36.65	---	74.00	37.35	150.0	V	172.0	-8.5
2780.625000	36.79	---	74.00	37.21	150.0	V	148.0	-7.6
2800.625000	---	27.68	54.00	26.32	150.0	V	67.0	-7.6
3458.125000	38.01	---	74.00	35.99	150.0	V	90.0	-6.5
3466.875000	---	29.26	54.00	24.74	150.0	V	102.0	-6.4
3700.625000	---	50.06	54.00	3.94	150.0	V	0.0	-5.6
3700.625000	51.07	---	74.00	22.93	150.0	V	0.0	-5.6
4985.000000	---	32.80	54.00	21.20	150.0	V	0.0	-1.1
4996.875000	41.04	---	74.00	32.96	150.0	V	137.0	-1.1
5611.875000	42.53	---	74.00	31.47	150.0	V	102.0	0.6
5928.750000	---	33.83	54.00	20.17	150.0	V	33.0	1.3

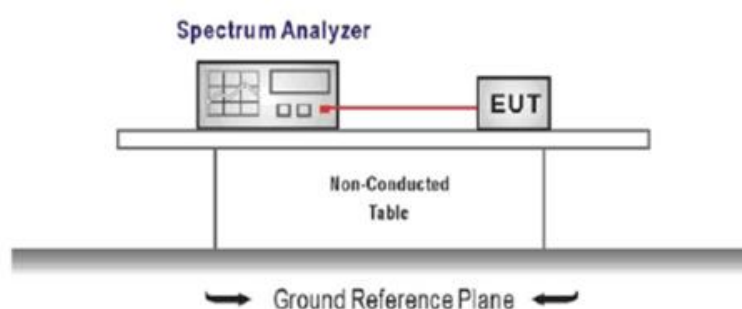
5.3. Antenna conducted power for receiver

LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.111:

Frequency range	Limit
9KHz to 3GHz	2.0 nW (-57dBm)

TEST CONFIGURATION



TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. Receiver set as follow:

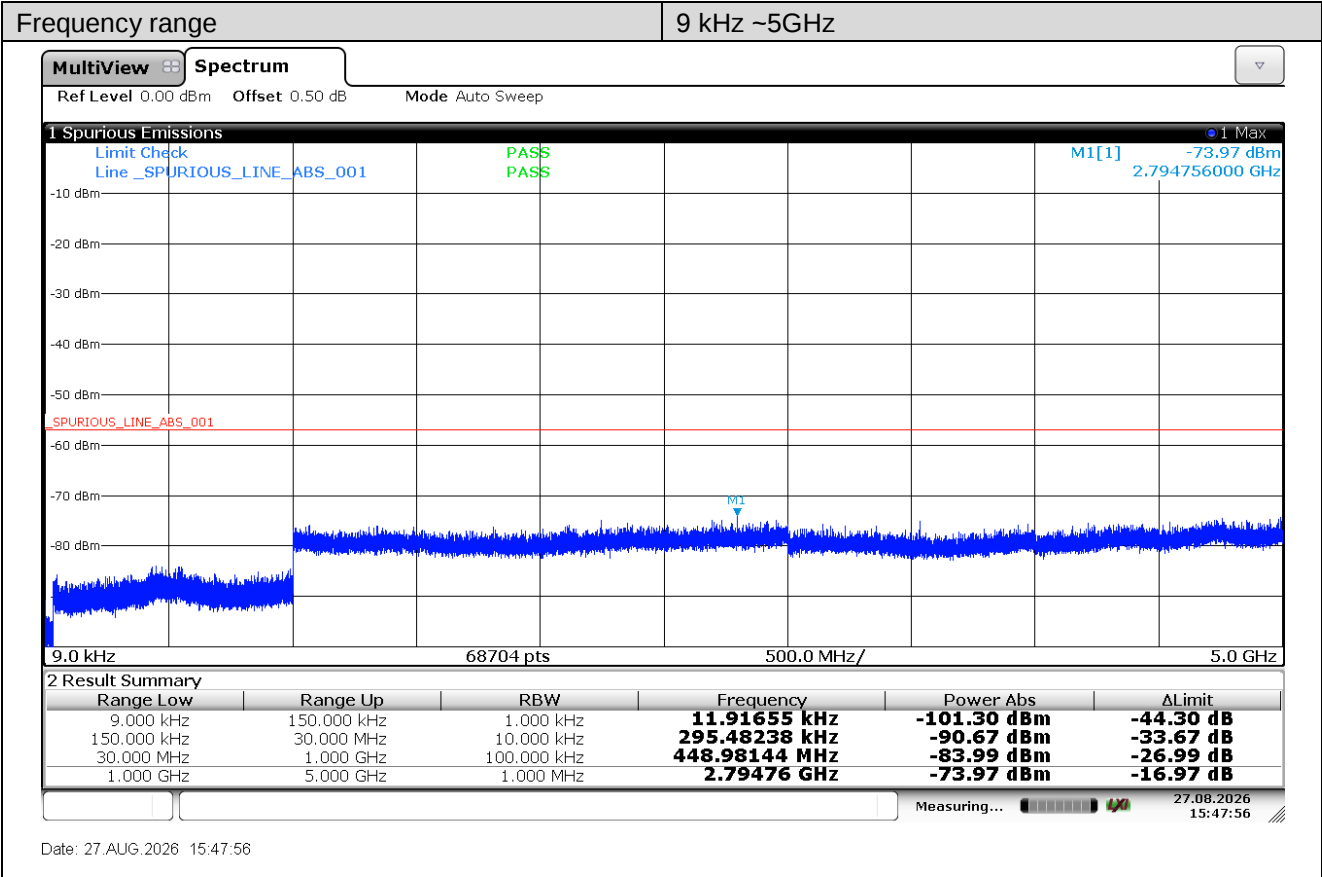
Frequency range	RBW (kHz)	VBW (kHz)
9 kHz ~ 150 kHz	1	3
150 kHz ~ 30 MHz	10	30
30 MHz ~ 1000 MHz	100	300
1000 MHz ~ 3000 MHz	1000	3000

TEST MODE:

Please refer to the clause 4.1

TEST RESULTS

☒ Passed ☐ Not Applicable



Date: 27.AUG.2026 15:47:56

6. TEST SETUP PHOTOS OF THE EUT

Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No.: CHTW26085071

--- End of Report ---