



Shenzhen Huaxin Information Technology Service Co., Ltd

101, R & D Building, No.3 guansheng 4th Road, Luhua Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China

Tel: +86-755-21018313 Http: //www.tecovo.net

TEST REPORT

Report No.: HX260827R001
FCC ID.....: 2A767-SWT0005
IC.....: 28865-SWT0005
Applicant.....: Summer Wind International Ltd
Address.....: No.39, Jinou Road, Jianghai District, Jiangmen City, Guangdong Province, 529000, China
Manufacturer.....: Summer Wind International Ltd
Address.....: No.39, Jinou Road, Jianghai District, Jiangmen City, Guangdong Province, 529000, China
Product Name.....: RF Remote
Trade Mark.....: /
Model/Type reference.....: SW-T0005
Listed Model(s): /
Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.231(a)
RSS-210 Issue 11
Date of receipt of test sample...: Aug. 18, 2026
Date of testing.....: Aug. 19, 2026 ~ Sep. 20, 2026
Date of issue.....: Sep. 21, 2026
Result.....: PASS

Compiled by:

(Printed name + signature)

Terry Su

Terry Su



Approved by:

(Printed name + signature)

Amy Zhai

Amy zhai

Testing Laboratory Name.....: Shenzhen Huaxin Information Technology Service Co., Ltd

Address.....: 101, R & D Building, No.3 guansheng 4th Road, Luhua Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China

This test report shall not be copied in any form except with the written approval of our laboratory. The customer shall not claim that the product has been endorsed by Shenzhen Huaxin Information Technology Service Co., Ltd. based on this report, The test results in the report are only applicable to the samples tested. Without the signatures of the compiled engineer and the approver, the test report will be invalid. Any objection shall be submitted to Shenzhen Huaxin Information Technology Service Co., Ltd. within 15 days from the date of receiving the report. After this period, it will not be considered. The test report only corresponds to the test sample.



Table of Contents		Page
1. TEST SUMMARY		3
1.1. TEST STANDARDS		3
1.2. REPORT VERSION		3
1.3. TEST DESCRIPTION		3
1.4. TEST FACILITY		4
1.5. MEASUREMENT UNCERTAINTY		4
1.6. ENVIRONMENTAL CONDITIONS		5
2. GENERAL INFORMATION		6
2.1. CLIENT INFORMATION		6
2.2. GENERAL DESCRIPTION OF EUT		6
2.3. ACCESSORY EQUIPMENT INFORMATION		6
2.4. EUT OPERATION STATE		7
2.5. MEASUREMENT INSTRUMENTS LIST		7
3. TEST ITEM AND RESULTS		9
3.1. CONDUCTED EMISSION		9
3.2. RADIATED EMISSION		11
3.3. 20dB BANDWIDTH		18
3.4. CONTINUE TRANSMISSION TIME		20
3.5. DUTY CYCLE		22
3.6. ANTENNA REQUIREMENT		24



1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.231\(a\)](#): Periodic operation in the band 40.66–40.70 MHz and above 70MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices.

[RSS-210 Issue 11](#): Licence-Exempt Radio Apparatus: Category I Equipment

[RSS-Gen Issue 6](#): General Requirements for Compliance of Radio Apparatus.

1.2. Report Version

Revised No.	Date of issue	Description
01	Sep. 21, 2026	Original

1.3. Test Description

Test Item	Section in CFR 47	RSS-210	Result	Test Engineer
Antenna Requirement	FCC 15.203	RSS-Gen 5.2	Pass	Sain Liao
Conducted Emission	FCC 15.207	RSS-Gen 7.4.2	N/A	N/A
Radiated Emissions	FCC 15.205	RSS-210 A1.3	Pass	Sain Liao
Field Strength of the Fundamental	FCC 15.231(e)	RSS-210 A1.3	Pass	Sain Liao
20dB Bandwidth	FCC 15.231(c)	RSS-210 A1.4 RSS-Gen 5.1	Pass	Sain Liao
Continue Transmission Time	FCC 15.231(a)	RSS-210 A1.2	Pass	Sain Liao

Note: (1) "N/A" Not applicable.

(2) The measurement uncertainty is not included in the test result.



1.4. Test Facility

Shenzhen Huaxin Information Technology Service Co., Ltd

Add: 101, R & D Building, No.3 guansheng 4th Road, Luhuhu Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 6855.01

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Company Number: 31786, CAB Identifier: CN0147)

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 31786.

FCC (Registration No.: 932271, Designation Number CN1344)

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC)Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration NO.: 932271.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huaxin Information Technology Service Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for Shenzhen Huaxin Information Technology Service Co., Ltd



Test Items	Measurement Uncertainty	Notes
Conducted Spurious Emissions	$\pm 1.40\text{dB}$	(1)
Conducted Emissions 9kHz~30MHz	$\pm 3.10\text{dB}$	(1)
Radiated Emissions 9kHz~30MHz	$\pm 3.62\text{dB}$	(1)
Radiated Emissions 30~1000MHz	$\pm 4.63\text{dB}$	(1)
Radiated Emissions 1~18GHz	$\pm 4.40\text{dB}$	(1)
Occupied Bandwidth	$\pm 3.70\%$	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Environmental Conditions

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

Temperature:	21°C~27°C
Relative Humidity:	40%~60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Summer Wind International Ltd
Address:	No.39, Jinou Road, Jianghai District, Jiangmen City, Guangdong Province, 529000, China
Manufacturer:	Summer Wind International Ltd
Address:	No.39, Jinou Road, Jianghai District, Jiangmen City, Guangdong Province, 529000, China

2.2. General Description of EUT

Product Name:	RF Remote
Trade Mark:	/
Model/Type reference:	SW-T0005
Listed Model(s):	/
Power supply:	3Vdc form 2*AA size battery
Hardware version:	SW-T0005-V5
Software version:	BM21C4014_005_Direct Mode_CSF58CH_V5
Samples No.:	YP260821-E001-1
RF parameter	
Modulation:	ASK
Operation frequency:	315MHz
Channel number:	1
Antenna type:	PCB antenna
Antenna gain:	0dBi

2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/



2.4. EUT Operation State

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting mode for testing.

2.5. Measurement Instruments List

RF Test System - SRD					
Item	Test Equipment	Manufacturer	Model No.	Versions/ Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY51280803	Apr. 08, 2027
2	Wideband Radio Communication Tester	R&S	CMW500	157763	Apr. 08, 2027
3	MXG Vector Signal Generator	Agilent	N5182A	101795	Apr. 08, 2027
4	EXG Analog Signal Generator	Agilent	N5181A	MY47421151	Apr. 08, 2027
5	RF Sensor Unit	Techy	TR1029-2	20220428P009	Apr. 08, 2027
6	High and low temperature test chamber	Asprey	LX-225L	2020091401	Apr. 08, 2027
7	SRD Test Software	TACHOY	RTS	V1.0.0	/
8	2G/3G/4G Test Software	TST	TST-PASS	V2.0	/

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Versions/ Serial No.	Calibrated until
1	EMI spectrum receiver	R&S	ESR7	102543	Apr. 09, 2027
2	9*6*6 anechoic chamber	Mao Rui	9*6*6	/	Apr. 09, 2028
3	Spectrum analyzer	R&S	FSV40-N	101795	Apr. 09, 2027
4	Preamplifier	Agilent	8449B	3008A00551	Apr. 08, 2027
5	Preamplifier	HP	8447D	1616A02061	Apr. 09, 2027
6	Preamplifier	SKET	LNPA1840G-50	SK2019040302	Apr. 09, 2027
7	Horn Antenna	SCHWARZBECK	BBHA9170	00369	Apr. 10, 2028
8	Horn Antenna	A. H. System, Inc	SAS-571	915	Apr. 10, 2028
9	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	01318	Apr. 10, 2028
10	Loop Antenna	SCHWARZBECK	FMZB1519B	00128	Apr. 08, 2027
11	6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6 dB	SK2021012803	Apr. 08, 2027
12	RF Cable 0.009~1000MHz	Langjingkeji	N/J-NJ-RG58(1G) 9m	/	Apr. 09, 2027
13	RF Cable 1000~18000MHz	Langjingkeji	N/J-SMAAJ-406(18G) 9m	/	Apr. 09, 2027
14	RF Cable	Langjingkeji	2.92/M-2.92/M-0.5M	/	Apr. 12, 2027
15	RF Cable 18000~40000MHz	Langjingkeji	2.92/M-2.92/M-3M	/	Apr. 12, 2027
16	Test Software	SKET	EMC-I	V1.4.0.1	/
17	Test Software	FARA	EZ-EMC	FA-03A3	/



Conducted emission					
Item	Test Equipment	Manufacturer	Model No.	Versions/ Serial No.	Calibrated until
1	LISN	R&S	ENV216	101291	Apr. 09, 2027
2	LISN	R&S	ESH3-Z5	894981/024	Apr. 09, 2027
3	EMI Test Receiver	R&S	ESR7	102543	Apr. 09, 2027
5	RF Cable	Langjingkeji	N/J-NJ-RG58(1G) 10m	/	Apr. 09, 2027
6	Test Software	SKET	EMC-I	V1.4.0.1	/

Note:

1. The Cal. Interval was one year.
2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

Limit

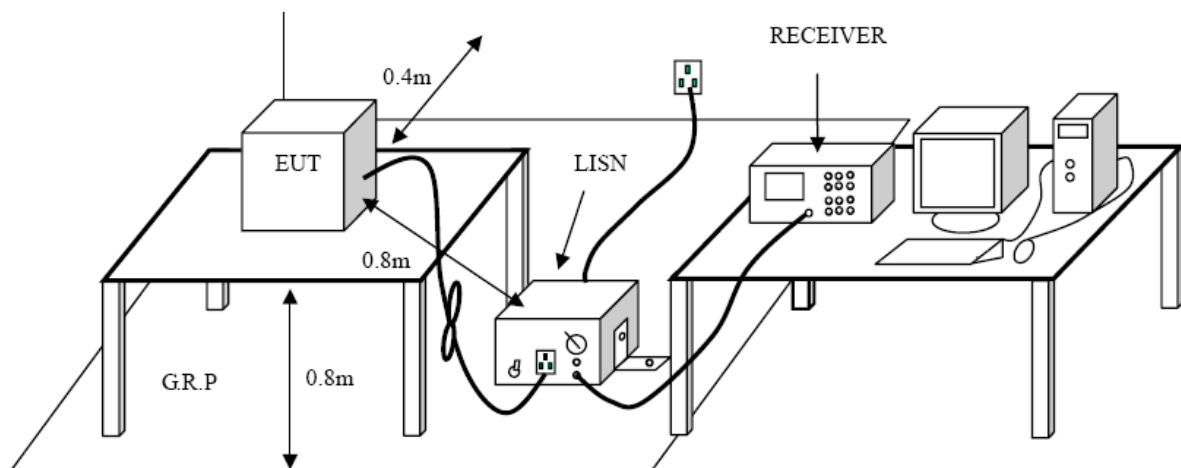
FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS-Gen 7.4.2:

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

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 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 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. 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)
4. 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.
5. 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.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.



Test Mode

Please refer to the clause 2.4.

Test Result

Note: Not applicable



3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.231(b)/ RSS-210 A1.3:

The field strength of emissions from intentional radiators operated **average value** under this section shall not exceed the following

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Unwanted emissions (millivolts/meter)
260 - 470 MHz	3,750 to 12,500 **	375 to 1,250 **

** linear interpolation with frequency, f, in MHz:

F is **315MHz**

Field strength of fundamental: Limit at 3 meters = $41.67 \cdot F - 7083.34$

Field strength of harmonics: Limit at 3 meters = $4.167 \cdot F - 708.334$

So the field strength of emission limits have been calculated in below table.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m
315MHz	95.62 (Peak)
315MHz	75.62 (Average)

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	$2400/F(\text{KHz})$	300
0.490~1.705	$24000/F(\text{KHz})$	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

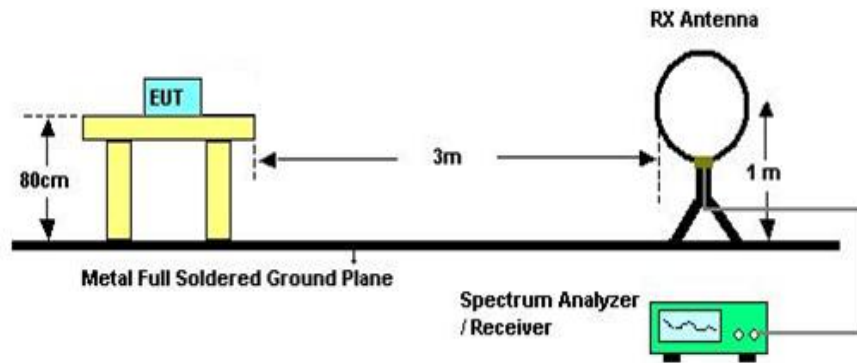
Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

Note:

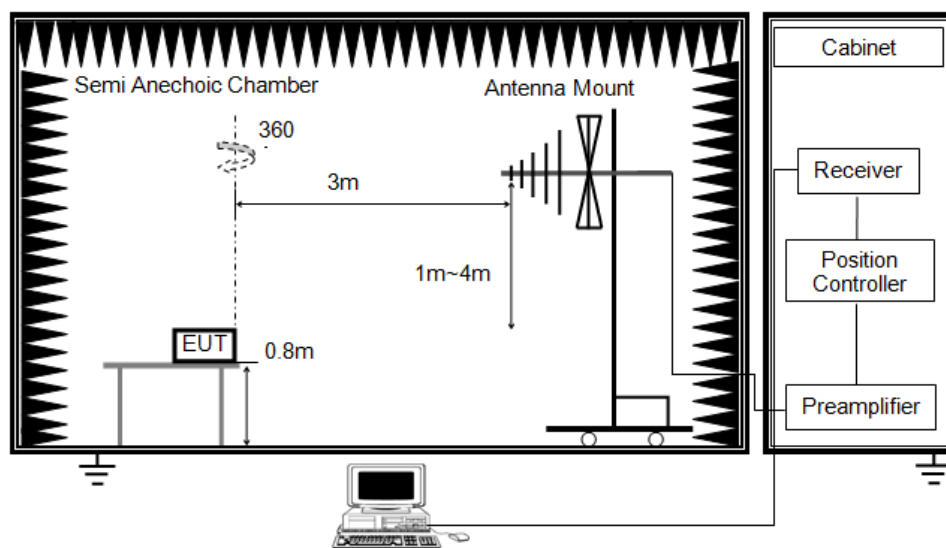
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).



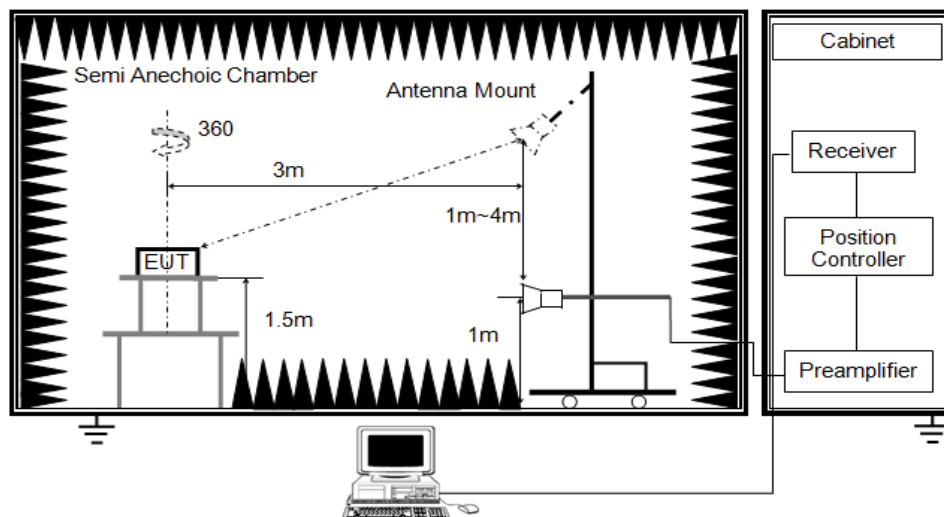
Test Configuration



Below 30MHz Test Setup



30MHz ~ 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum



emission level.

3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, 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 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

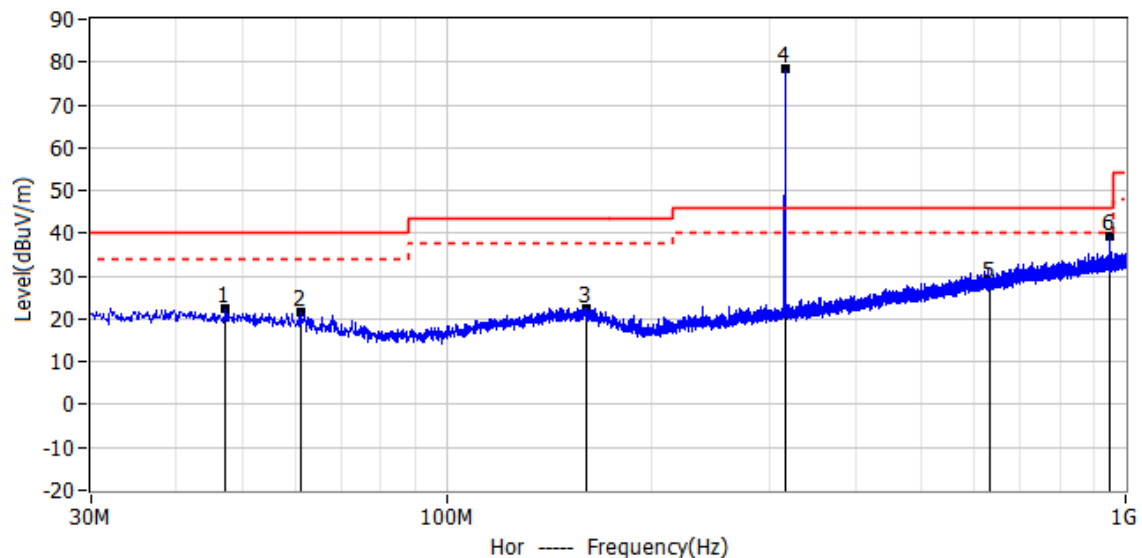
From 9 kHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



30MHz-1000MHz

Ant. Pol.	Horizontal
Test Mode:	TX Mode 315MHz
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Duty Cycle Factor	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	47.339	13.5	/	8.9	22.4	40.0	-17.6	QP
2	60.919	12.5	/	9.1	21.6	40.0	-18.4	QP
3	160.708	14.1	/	8.3	22.4	43.5	-21.1	QP
4	314.938	14.3	/	64.0	78.3	95.62	-17.32	peak
4	314.938	/	-10.98	/	67.32	75.62	-8.3	AVG
5	630.000	20.7	/	7.5	28.2	75.62	-47.42	peak
5	630.000	/	-10.98	/	17.22	55.62	-38.4	AVG
6	945.074	24.5	/	15.0	39.5	75.62	-36.12	peak
6	945.074	/	-10.98	/	28.52	55.62	-27.1	AVG

Remarks:

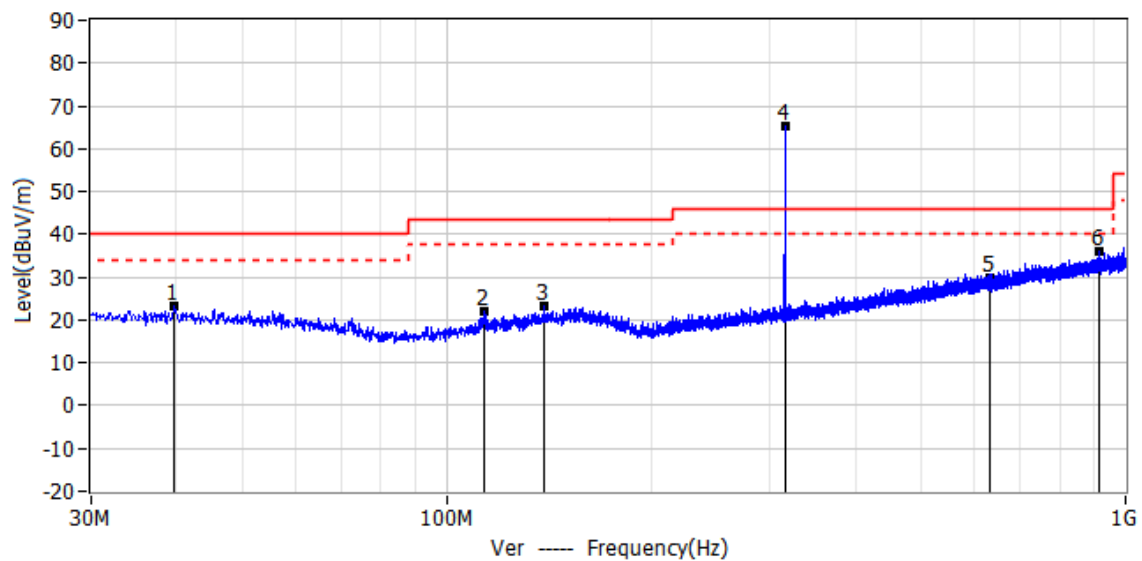
1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level- Limit value

3. AVG=Peak + Duty Cycle Factor (-10.98)



Ant. Pol.	Vertical
Test Mode:	TX Mode 315MHz
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Duty Cycle Factor	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.821	14.0	/	9.1	23.1	40.0	-16.9	QP
2	113.784	11.9	/	10.2	22.1	43.5	-21.4	QP
3	139.489	13.7	/	9.6	23.3	43.5	-20.2	QP
4	314.938	14.3	/	51.0	65.3	95.62	-30.32	peak
4	314.938	/	-10.98	/	54.32	75.62	-21.3	AVG
5	630.000	20.7	/	9.2	29.9	75.62	-45.72	peak
5	630.000	/	-10.98	/	18.92	55.62	-36.7	AVG
6	915.246	24.3	/	11.7	36.0	75.62	-39.62	peak
6	915.246	/	-10.98	/	25.02	55.62	-30.6	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

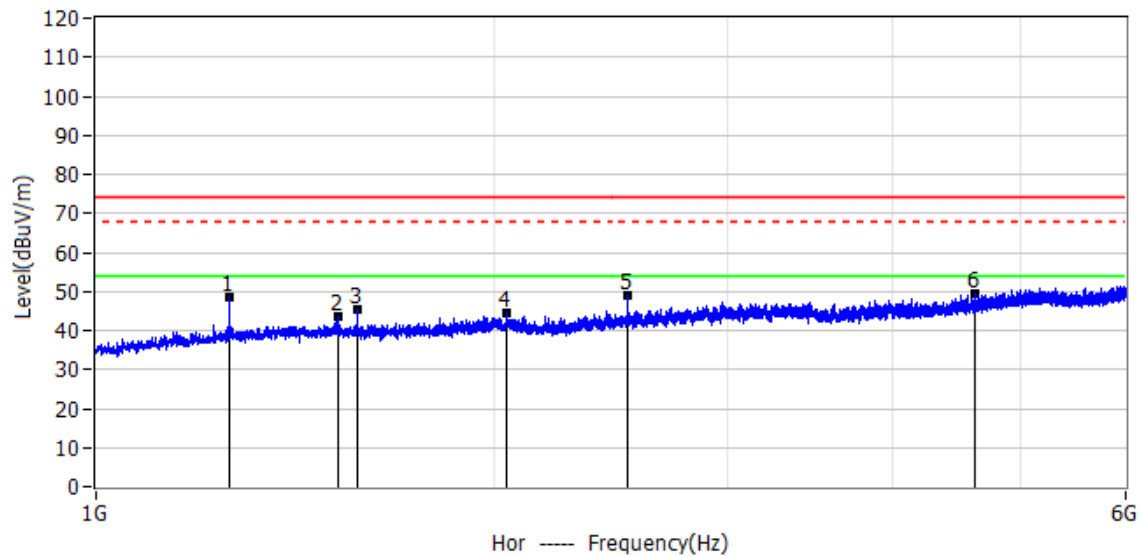
2. Margin value = Level- Limit value

3. AVG=Peak + Duty Cycle Factor (-10.98)



Adobe 1000MHz

Ant. Pol.	Horizontal
Test Mode:	TX Mode 315MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (GHz)	Factor (dB/m)	Duty Cycle Factor	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1.260	-8.1	/	56.5	48.4	74.0	-25.6	peak
2	1.260	/	-10.98	/	37.42	54.0	-16.58	AVG
3	1.525	-6.3	/	50.1	43.8	74.0	-30.2	peak
4	1.525	/	-10.98	/	32.82	54.0	-21.18	AVG
5	1.575	-6.0	/	51.2	45.2	74.0	-28.8	peak
6	1.575	/	-10.98	/	34.22	54.0	-19.78	AVG
7	2.042	-0.4	/	44.7	44.3	74.0	-29.7	peak
8	2.042	/	-10.98	/	33.32	54.0	-20.68	AVG
9	2.520	1.8	/	47.0	48.8	74.0	-25.2	peak
10	2.520	/	-10.98	/	37.82	54.0	-16.18	AVG
11	4.617	7.0	/	42.5	49.5	74.0	-24.5	peak
12	4.617	/	-10.98	/	38.52	54.0	-15.48	AVG

Remarks:

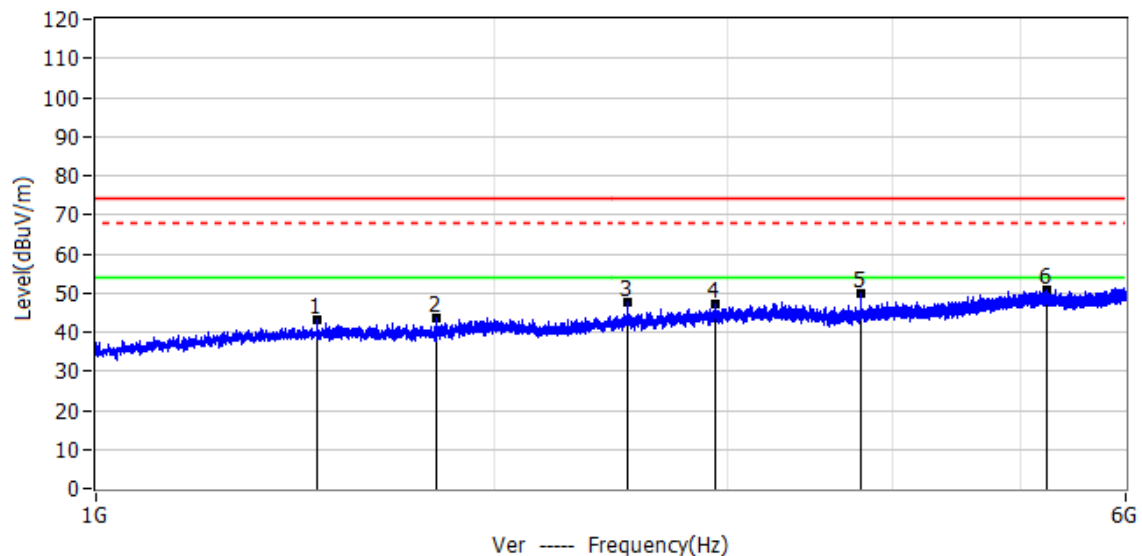
1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

3. AVG = Peak + Duty Cycle Factor (-10.98)



Ant. Pol.	Vertical
Test Mode:	TX Mode 315MHz
Remark:	No report for the emission which more than 10 dB below the prescribed limit.



No.	Frequency (GHz)	Factor (dB/m)	Duty Cycle Factor	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1.468	-6.7	/	49.7	43.0	74.0	-31.0	peak
2	1.468	/	-10.98	/	32.02	54.0	-21.98	AVG
3	1.807	3.5	/	47.0	43.5	74.0	-30.5	peak
4	1.807	/	-10.98	/	32.52	54.0	-21.48	AVG
5	2.520	1.8	/	45.7	47.5	74.0	-26.5	peak
6	2.520	/	-10.98	/	36.52	54.0	-17.48	AVG
7	2.937	3.8	/	43.4	47.2	74.0	-26.8	peak
8	2.937	/	-10.98	/	36.22	54.0	-17.78	AVG
9	3.781	4.4	/	45.4	49.8	74.0	-24.2	peak
10	3.781	/	-10.98	/	38.82	54.0	-15.18	AVG
11	5.229	9.3	/	41.3	50.6	74.0	-23.4	peak
12	5.229	/	-10.98	/	39.62	54.0	-14.38	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

3. AVG = Peak + Duty Cycle Factor (-10.98)



3.3. 20dB Bandwidth

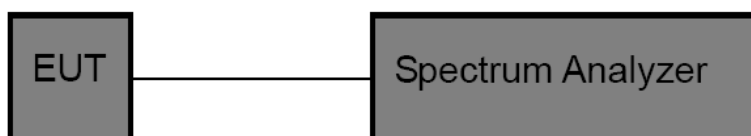
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.231(c)/ RSS-210 A1.4 RSS-Gen 5.1:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

$315\text{MHz} \times 0.25\% = 0.78\text{MHz}$

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% OCB.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Test Mode

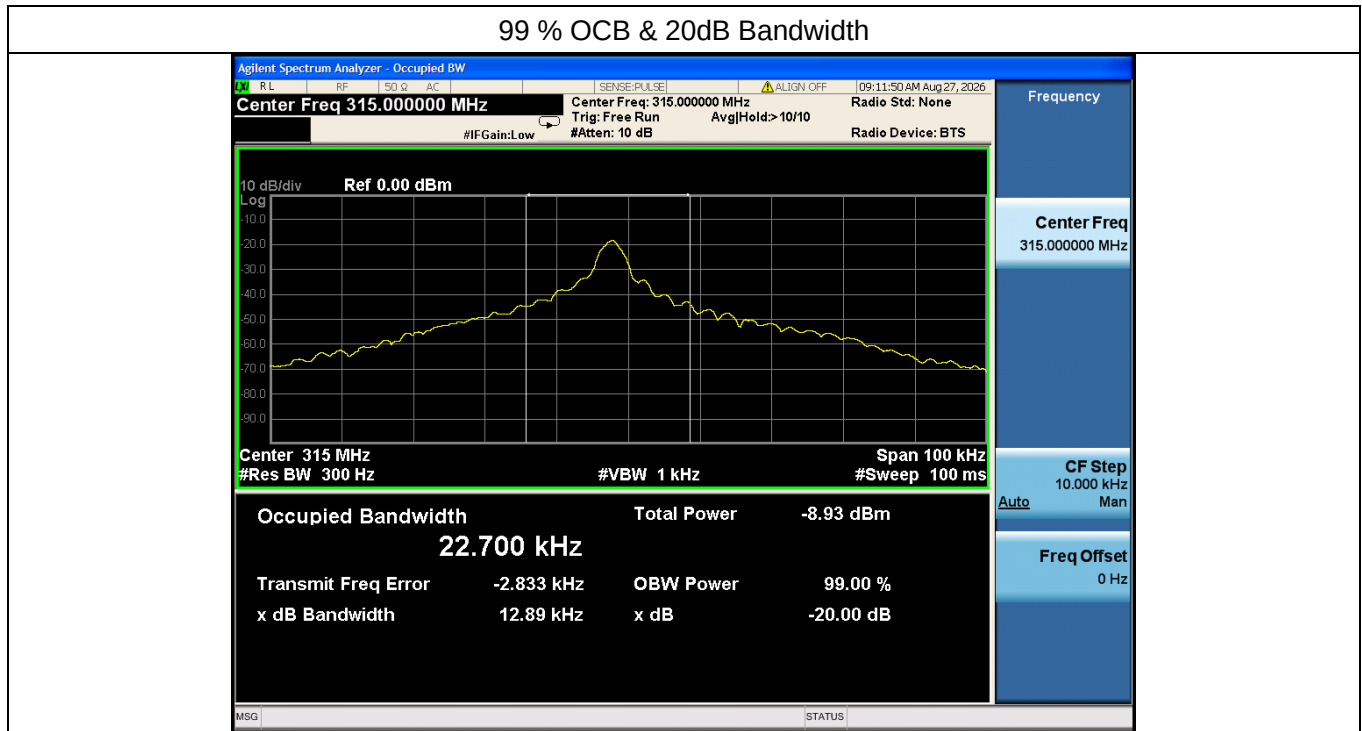
Please refer to the clause 2.4.

Test Result



Channel Frequency (MHz)	99 % OCB (kHz)	20dB Bandwidth(kHz)	Limit (MHz)	Result
315	22.70	12.89	0.78	PASS

99 % OCB & 20dB Bandwidth





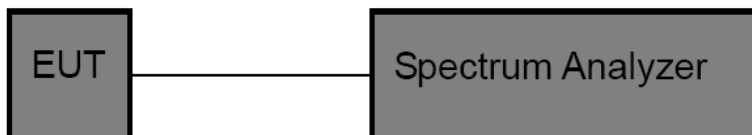
3.4. Continue Transmission Time

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.231(a)/ RSS-210 A1.2:

A manually operated transmitter shall employ a switch that will auto-matically deactivate the transmitter within not more than 5 seconds of being released.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Frequency=Center carrier frequency
RBW=100KHz, VBW=300KHz, Span= 0
Sweep time= 5 second, Detector function = peak, Trace = single
4. Measure and record the results in the test report.

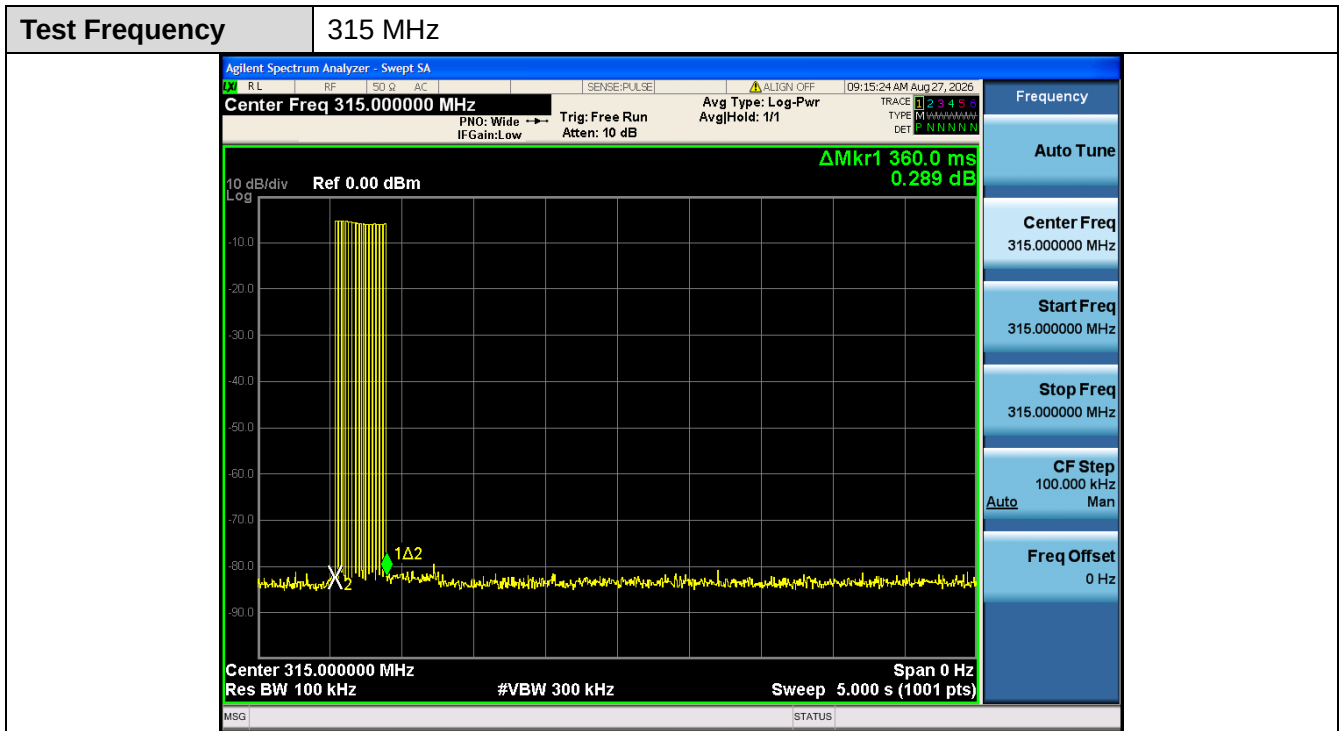
Test Mode

Please refer to the clause 2.4.

Test Result



Frequency (MHz)	Transmission time (ms)	Limit (s)	Result
315	360	<5	Pass



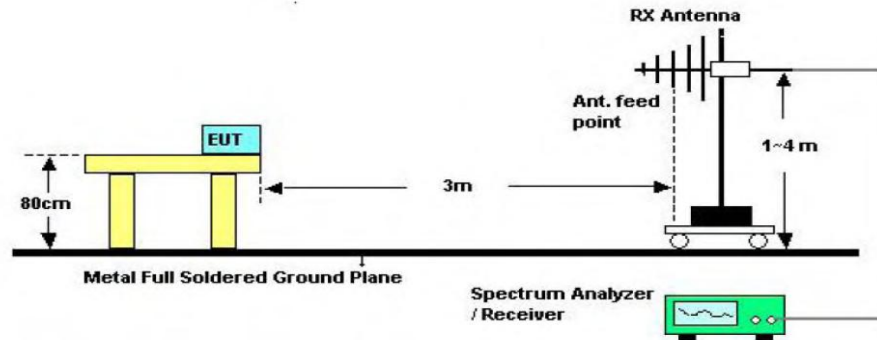


3.5. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. 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. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 on radiated measurement.

Test Mode

Please refer to the clause 2.4.

Test Result

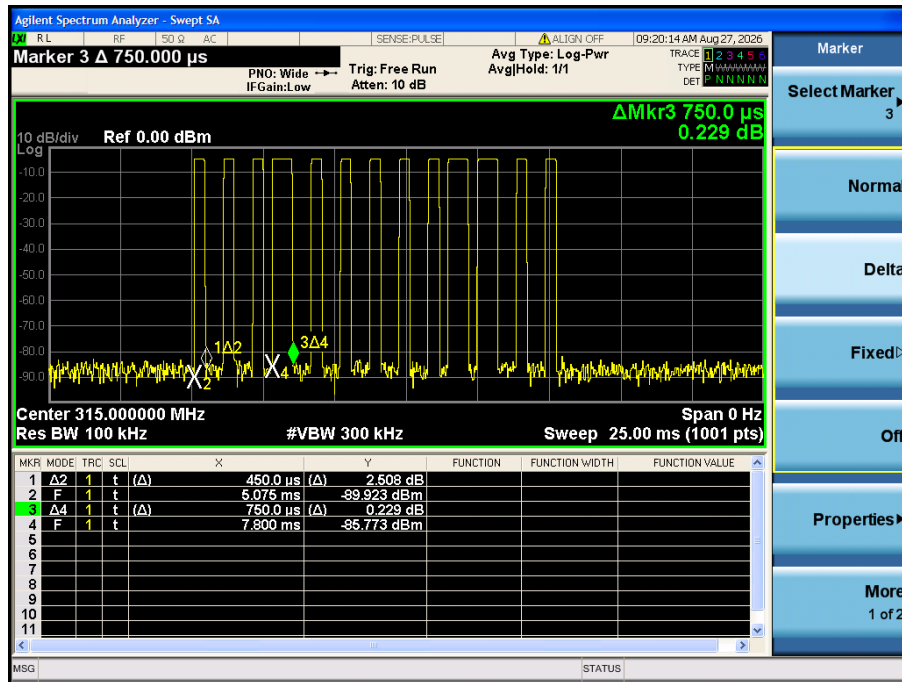
Plot	Period (ms)	Pulse count
1	Narrow pulse 0.45	10
1	Large pulse 0.75	3
2	23.9	/

$$\text{Duty Cycle} = T_{\text{on}} / T_{\text{period}} = (0.45 \times 10 + 0.75 \times 3) / 23.9 = 6.75 / 23.9 = 28.24\%$$

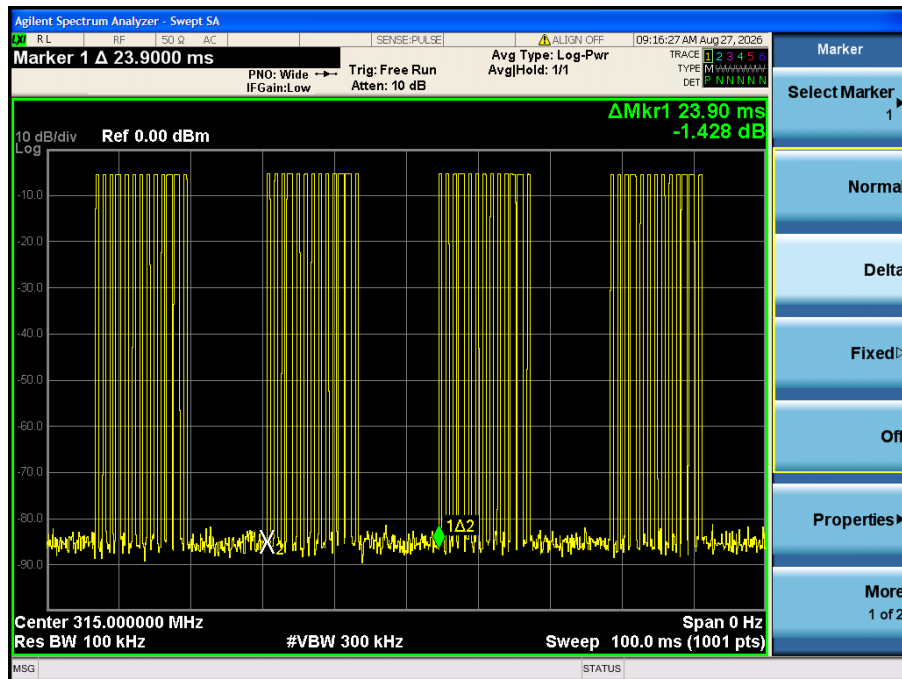
$$\text{Duty cycle factor} = 20 \log(\text{Duty cycle}) = -10.98$$



Plot 1



Plot 2





3.6. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

According to RSS-GEN Issue 6, section 5.2, In the case of transmitters with detachable antenna(s), a list of all antenna types that are permitted to be used with the transmitter, indicating the maximum permissible antenna gain (and unit, e.g., dBi) and the required impedance, shall be provided for equipment certification. If the transmitter has multiple antenna ports, this list shall indicate the allowed port for each antenna in the list. The test report shall demonstrate the compliance of the transmitter with the limits specified in the applicable RSS when the transmitter is equipped with any antenna type from this list. If the tests were performed only on worst-case configurations, the test report shall include the rationale for selecting the tested configurations and why they are worst-case. See also section 9.3.2.2.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****