

FCC Test Report

Report No. : 1812C50604212504

Applicant : MeiZhou WorldLove Technology Co., Ltd

Address : No. 3, Building D, Luole Road, Guangdong
Meizhou Economic Development Zone,
Meijiang District, Meizhou Guangdong 51400
China

Product Name : AX12

Report Date : 2026-01-19



Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : MeiZhou WorldLove Technology Co., Ltd
Manufacturer : MeiZhou WorldLove Technology Co., Ltd
Product Name : AX12
Model No. : AX12
Trade Mark : N/A
Rating(s) : Input: 3.3V-4.2V=

Test Standard(s) : 47 CFR Part 15.247

Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.247 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2025-11-14

Date of Test 2025-11-14 to 2025-12-18

Prepared By

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer

Hugo Chen

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2026-01-19

1. General Information

1.1. Client Information

Applicant	:	MeiZhou WorldLove Technology Co., Ltd
Address	:	No. 3, Building D, Luole Road, Guangdong Meizhou Economic Development Zone, Meijiang District, Meizhou Guangdong 51400 China
Manufacturer	:	MeiZhou WorldLove Technology Co., Ltd
Address	:	No. 3, Building D, Luole Road, Guangdong Meizhou Economic Development Zone, Meijiang District, Meizhou Guangdong 51400 China

1.2. Description of Device (EUT)

Product Name	:	AX12
Model No.	:	AX12
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	903.5MHz to 926.9MHz
Number of Channel	:	40
Modulation Type	:	CSS
Antenna Type	:	Rod Antenna
Antenna Gain(Peak)	:	4.98dBi
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

1.4. Description of Test Modes

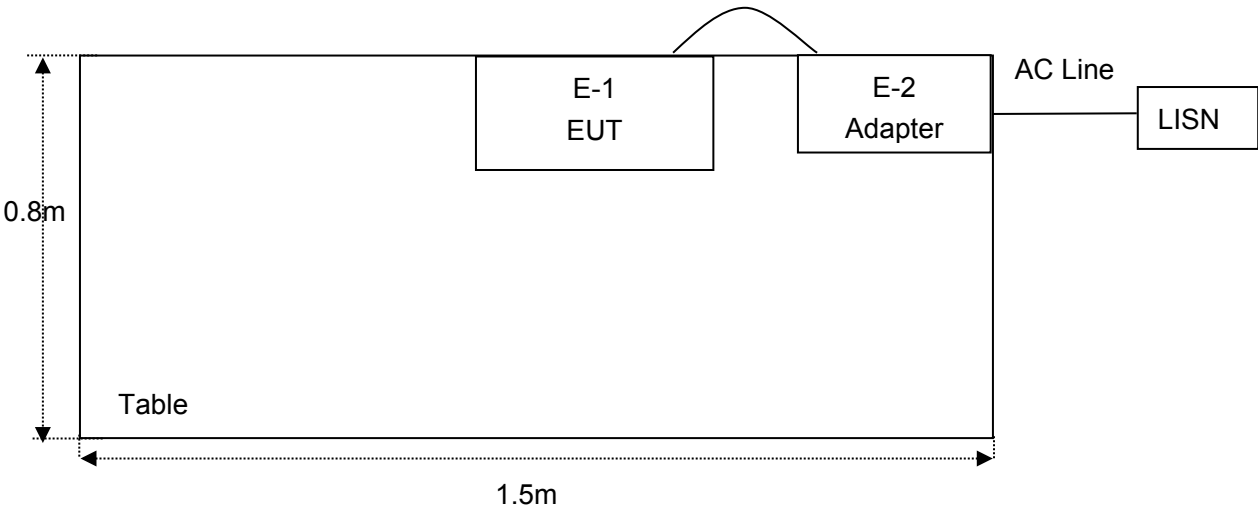
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	903.5	11	909.5	21	915.5	31	921.5
2	904.1	12	910.1	22	916.1	32	922.1
3	904.7	13	910.7	23	916.7	33	922.7
4	905.3	14	911.3	24	917.3	34	923.3
5	905.9	15	911.9	25	917.9	35	923.9
6	906.5	16	912.5	26	918.5	36	924.5
7	907.1	17	913.1	27	919.1	37	925.1
8	907.7	18	913.7	28	919.7	38	925.7
9	908.3	19	914.3	29	920.3	39	926.3
10	908.9	20	914.9	30	920.9	40	926.9

Note:

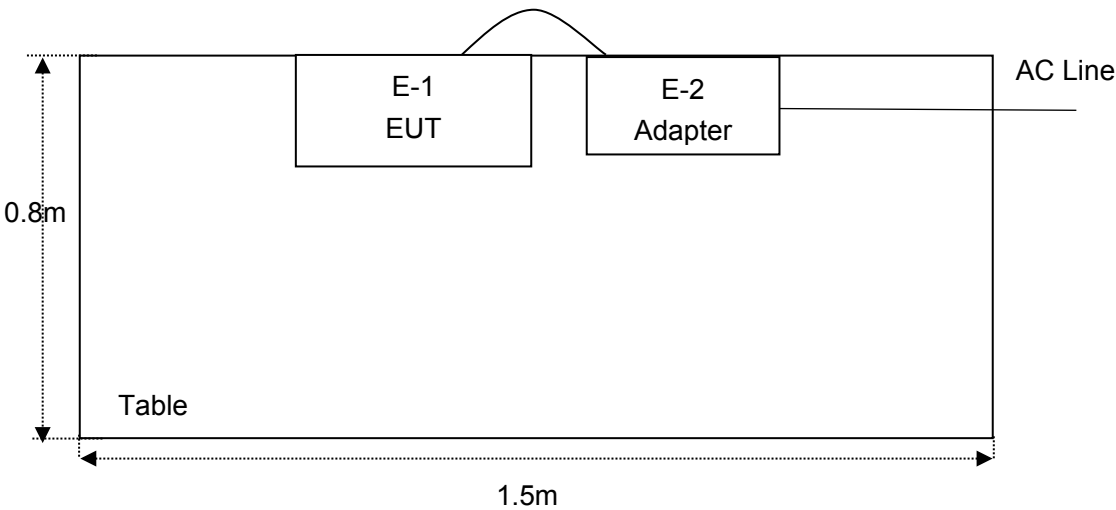
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with Channel 1, 20 and 40.

1.5. Description Of Test Setup

CE



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	2025-01-14	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	2025-09-05	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-09-05	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-09-05	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	2025-09-05	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	2025-09-05	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	2025-01-14	1 Year
15.	Signal Generator	Agilent	E4421B	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	2025-09-05	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	2025-10-10	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-04-25	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Dwell Time	2%
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, 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. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9.Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(2)	Conducted Peak Output Power	PASS
15.247(a)(1)(i)	20dB Occupied Bandwidth	PASS
15.247(a)(1)	Carrier Frequencies Separation	PASS
15.247(a)(1)(i)	Hopping Channel Number	PASS
15.247(a)(1)(i), 15.247(f)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

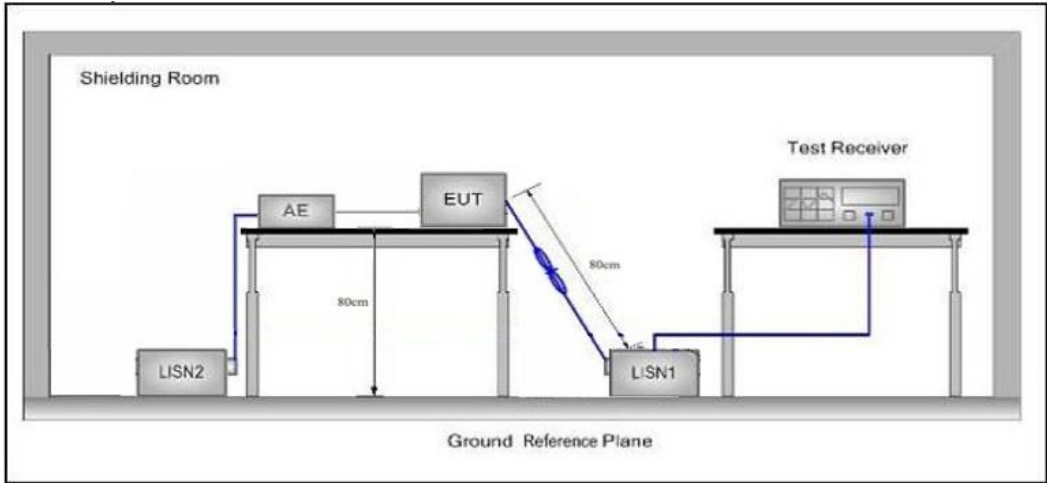
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

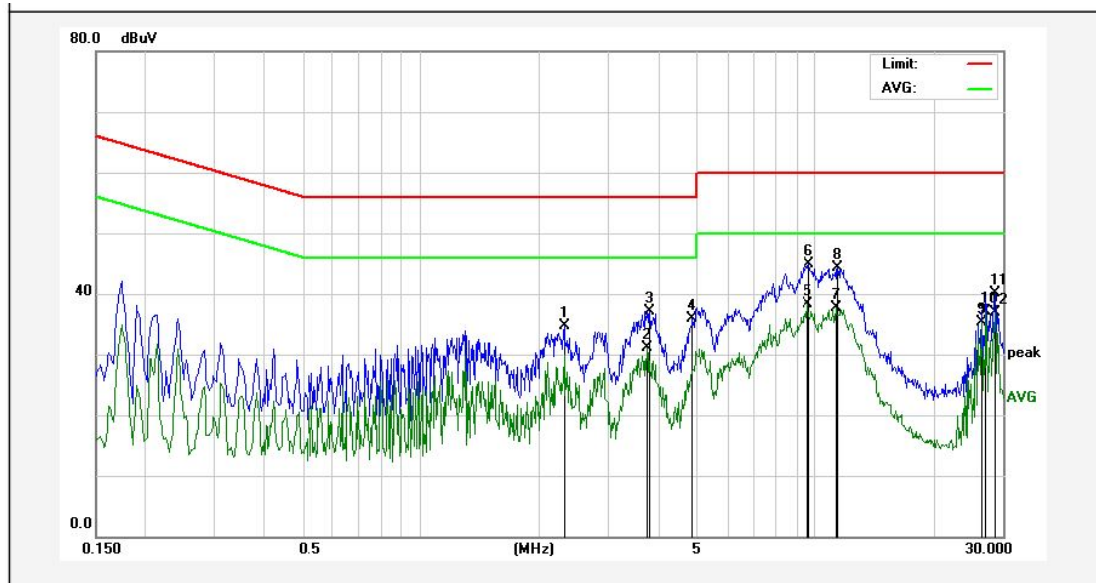
3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Conducted Emission Test Data

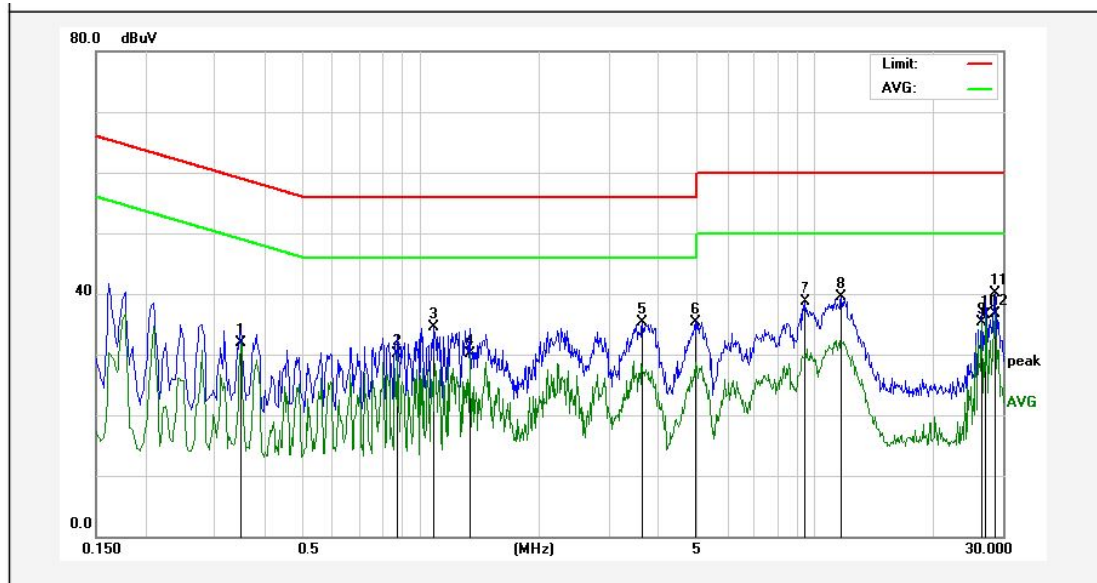
Test Site: 1# Shielded Room
Operating Condition: 926.9MHz
Test Specification: AC 120V/60Hz for Adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 22.1°C/53%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	2.3100	16.63	18.06	34.69	56.00	-21.31	QP	
2	3.7580	13.12	18.04	31.16	46.00	-14.84	AVG	
3	3.8180	19.01	18.04	37.05	56.00	-18.95	QP	
4	4.8859	17.88	18.01	35.89	56.00	-20.11	QP	
5	9.5540	20.37	17.95	38.32	50.00	-11.68	AVG	
6	9.6660	26.90	17.95	44.85	60.00	-15.15	QP	
7	11.3540	19.69	18.03	37.72	50.00	-12.28	AVG	
8	11.4580	26.26	18.03	44.29	60.00	-15.71	QP	
9	26.6100	17.34	17.98	35.32	50.00	-14.68	AVG	
10	27.1620	19.02	18.02	37.04	50.00	-12.96	AVG	
11	28.6860	22.01	18.11	40.12	60.00	-19.88	QP	
12	28.6860	18.82	18.11	36.93	50.00	-13.07	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 926.9MHz
Test Specification: AC 120V/60Hz for Adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 22.1°C/53%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3500	13.88	18.09	31.97	48.96	-16.99	AVG	
2	0.8780	12.02	18.11	30.13	46.00	-15.87	AVG	
3	1.0859	16.38	18.11	34.49	56.00	-21.51	QP	
4	1.3340	11.95	18.09	30.04	46.00	-15.96	AVG	
5	3.6500	17.27	18.04	35.31	56.00	-20.69	QP	
6	4.9740	17.34	18.01	35.35	56.00	-20.65	QP	
7	9.4780	20.79	17.95	38.74	60.00	-21.26	QP	
8	11.7020	21.42	18.04	39.46	60.00	-20.54	QP	
9	26.6100	17.29	17.98	35.27	50.00	-14.73	AVG	
10	27.1620	18.54	18.02	36.56	50.00	-13.44	AVG	
11	28.6860	22.06	18.11	40.17	60.00	-19.83	QP	
12	28.6860	18.59	18.11	36.70	50.00	-13.30	AVG	

Note:

- Only record the worst data in the report.
- Result(dBuV) = Reading(dBuV) + Factor(dB);
Over Limit(dB) = Result(dBuV) - Limit(dBuV)

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

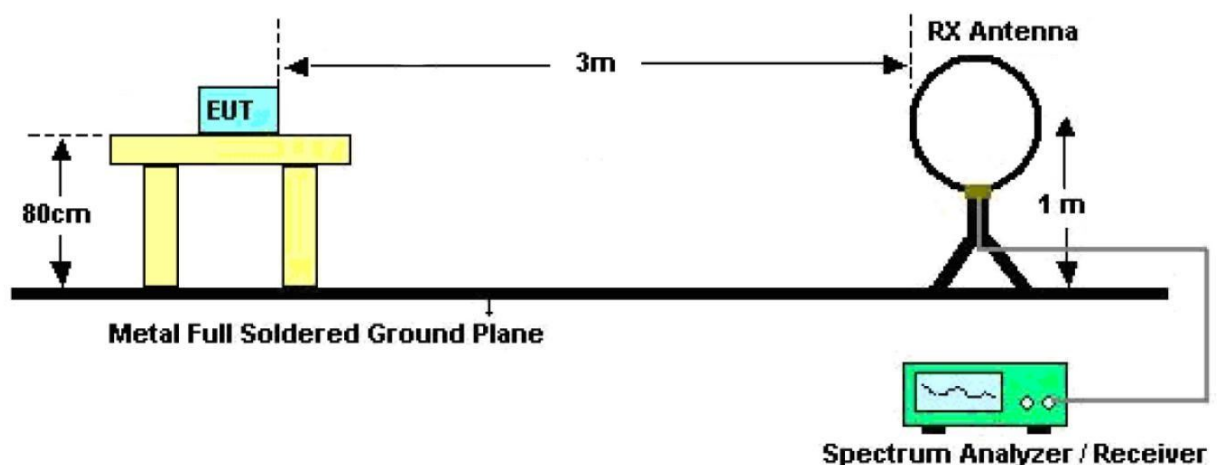


Figure 1. Below 30MHz

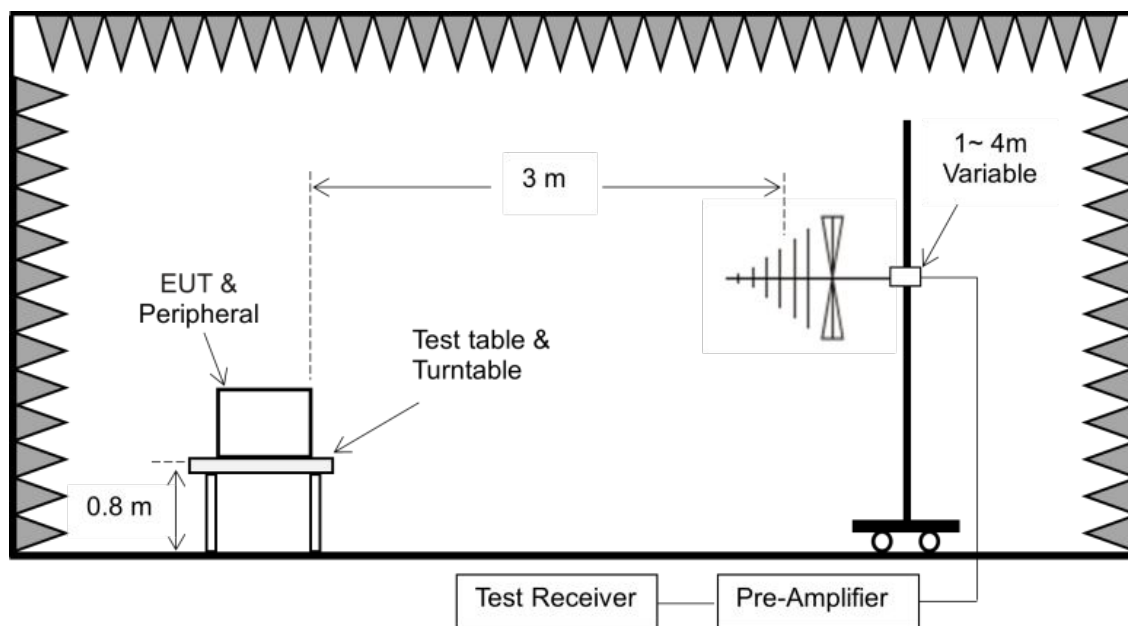


Figure 2. 30MHz to 1GHz

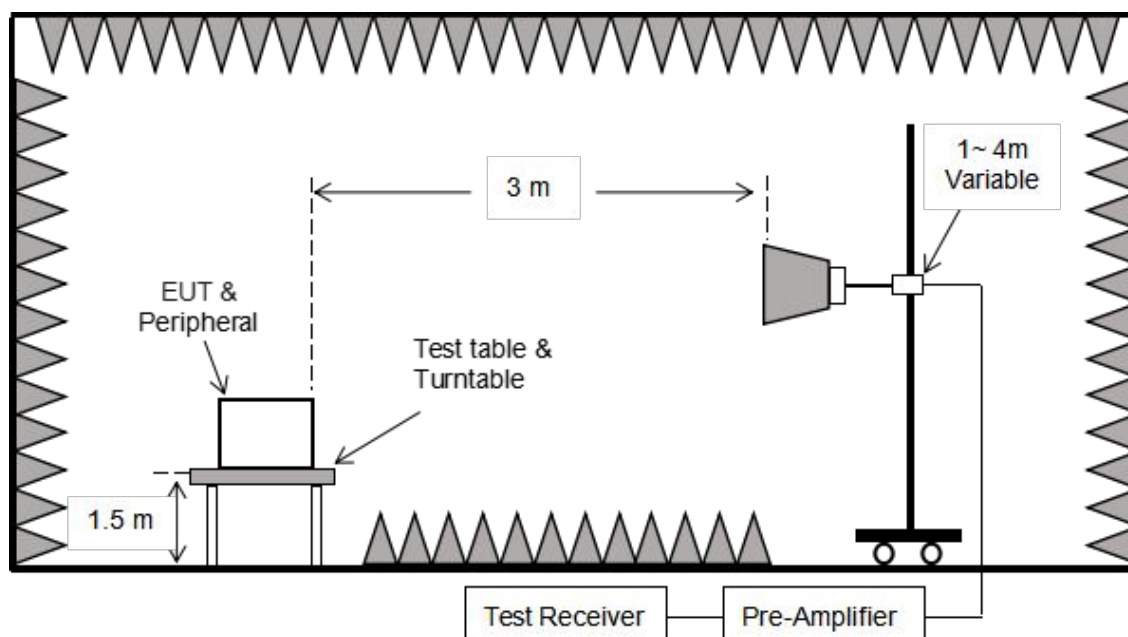


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

Test Results (30~1000MHz)

Test Mode: 926.9MHz
Power Source: AC 120V/60Hz for Adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 20.3°C/45%RH

Fundamental frequency signal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	39.2991	38.33	-16.29	22.04	40.00	-17.96	QP	
2	185.7880	57.97	-20.93	37.04	43.50	-6.46	QP	
3	199.9856	58.29	-20.12	38.17	43.50	-5.33	QP	
4	253.8367	60.88	-18.24	42.64	46.00	-3.36	QP	
5	303.5437	58.98	-16.63	42.35	46.00	-3.65	QP	
6	903.5324	84.69	-6.66	78.03				

Test Results (30~1000MHz)

Test Mode: 926.9MHz
Power Source: AC 120V/60Hz for Adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 20.3°C/45%RH

Fundamental frequency signal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	87.1115	47.27	-20.83	26.44	40.00	-13.56	QP	
2	98.8324	45.29	-18.72	26.57	43.50	-16.93	QP	
3	171.9944	52.30	-21.41	30.89	43.50	-12.61	QP	
4	245.0900	52.90	-18.53	34.37	46.00	-11.63	QP	
5	302.4812	58.72	-16.60	42.12	46.00	-3.88	QP	
6	903.5324	87.09	-6.66	80.43				

Note:

1. Only record the worst data in the report.
2. Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);
Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

Test Results (1GHz-25GHz)

Test channel: Lowest						
Peak value:						
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	polarization
1807.00	28.66	15.27	43.93	74.00	-30.07	Vertical
2710.50	29.83	18.09	47.92	74.00	-26.08	Vertical
3614.00	30.94	23.76	54.70	74.00	-19.30	Vertical
4517.50	*			74.00		Vertical
5421.00	*			74.00		Vertical
1807.00	29.04	15.27	44.31	74.00	-29.69	Horizontal
2710.50	29.72	18.09	47.81	74.00	-26.19	Horizontal
3614.00	29.07	23.76	52.83	74.00	-21.17	Horizontal
4517.50	*			74.00		Horizontal
5421.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	polarization
1807.00	18.04	15.27	33.31	54.00	-20.69	Vertical
2710.50	18.86	18.09	36.95	54.00	-17.05	Vertical
3614.00	19.96	23.76	43.72	54.00	-10.28	Vertical
4517.50	*			54.00		Vertical
5421.00	*			54.00		Vertical
1807.00	17.39	15.27	32.66	54.00	-21.34	Horizontal
2710.50	18.78	18.09	36.87	54.00	-17.13	Horizontal
3614.00	18.38	23.76	42.14	54.00	-11.86	Horizontal
4517.50	*			54.00		Horizontal
5421.00	*			54.00		Horizontal

Test Results (1GHz-25GHz)

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.80	28.68	15.42	44.10	74.00	-29.90	Vertical
2744.70	29.68	18.02	47.70	74.00	-26.30	Vertical
3659.60	29.95	23.80	53.75	74.00	-20.25	Vertical
4574.50	*			74.00		Vertical
5489.40	*			74.00		Vertical
1829.80	28.74	15.42	44.16	74.00	-29.84	Horizontal
2744.70	29.71	18.02	47.73	74.00	-26.27	Horizontal
3659.60	28.77	23.80	52.57	74.00	-21.43	Horizontal
4574.50	*			74.00		Horizontal
5489.40	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	
1829.80	17.77	15.42	33.19	54.00	-20.81	polarization
2744.70	18.96	18.02	36.98	54.00	-17.02	Vertical
3659.60	19.82	23.80	43.62	54.00	-10.38	Vertical
4574.50	*			54.00		Vertical
5489.40	*			54.00		Vertical
1829.80	17.30	15.42	32.72	54.00	-21.28	Vertical
2744.70	18.34	18.02	36.36	54.00	-17.64	Horizontal
3659.60	18.89	23.80	42.69	54.00	-11.31	Horizontal
4574.50	*			54.00		Horizontal
5489.40	*			54.00		Horizontal

Test Results (1GHz-25GHz)

Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1853.80	28.95	15.58	44.53	74.00	-29.47	Vertical
2780.70	29.69	17.93	47.62	74.00	-26.38	Vertical
3707.60	30.50	23.83	54.33	74.00	-19.67	Vertical
4634.50	*			74.00		Vertical
5561.40	*			74.00		Vertical
1853.80	28.81	15.58	44.39	74.00	-29.61	Horizontal
2780.70	29.74	17.93	47.67	74.00	-26.33	Horizontal
3707.60	29.45	23.83	53.28	74.00	-20.72	Horizontal
4634.50	*			74.00		Horizontal
5561.40	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1853.80	18.89	15.58	34.47	54.00	-19.53	Vertical
2780.70	19.97	17.93	37.90	54.00	-16.10	Vertical
3707.60	20.37	23.83	44.20	54.00	-9.80	Vertical
4634.50	*			54.00		Vertical
5561.40	*			54.00		Vertical
1853.80	18.74	15.58	34.32	54.00	-19.68	Horizontal
2780.70	19.71	17.93	37.64	54.00	-16.36	Horizontal
3707.60	18.79	23.83	42.62	54.00	-11.38	Horizontal
4634.50	*			54.00		Horizontal
5561.40	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

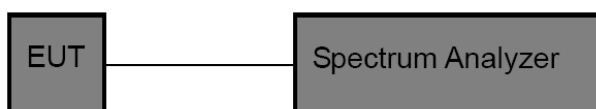
2. Test frequency are from 1GHz to 25GHz, "*"means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(2)
Test Limit	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

5.2. Test Setup



5.3. 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:
 - RBW > the 20 dB bandwidth of the emission being measured
 - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 - VBW ≥ RBW
 - Sweep = auto
 - Detector function = peak
 - Trace = max hold

5.4. Test Data

Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Test Channel	Peak Power output (dBm)	Limit (dBm)	Results
Low	22.259	23.98	PASS
Middle	22.195	23.98	PASS
High	22.295	23.98	PASS



Low Channel



Mid Channel



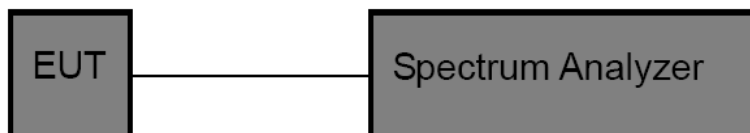
High Channel

6. 20dB Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)(i)
Limit	Less than 500KHz

6.2. Test Setup



6.3. Test Procedure

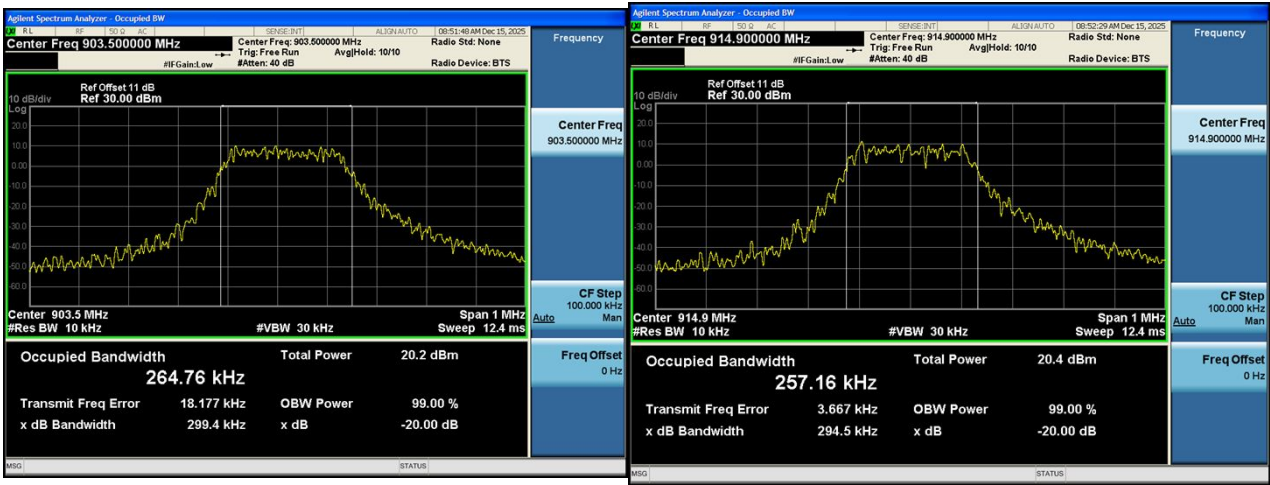
Using the following spectrum analyzer settings:

1. Span= approximately 2 to 5 times the OBW.
2. Set the RBW =1%~5% of the OBW.
3. Set the VBW $\geq$ RBW.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

6.4. Test Data

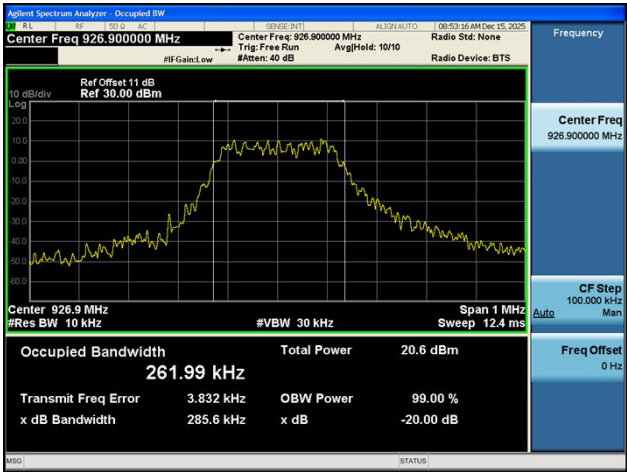
Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Test Channel	Bandwidth (kHz)	Limit (kHz)	Results
Low	299.4	≤ 500	PASS
Middle	294.5	≤ 500	PASS
High	285.6	≤ 500	PASS



Low Channel

Mid Channel



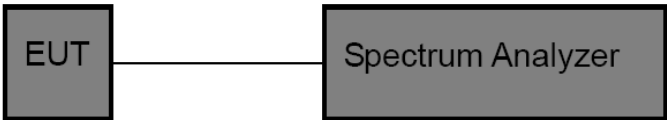
High Channel

7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)
Test Limit	> 25 kHz or the 20 dB bandwidth whichever is greater.

7.2. Test Setup



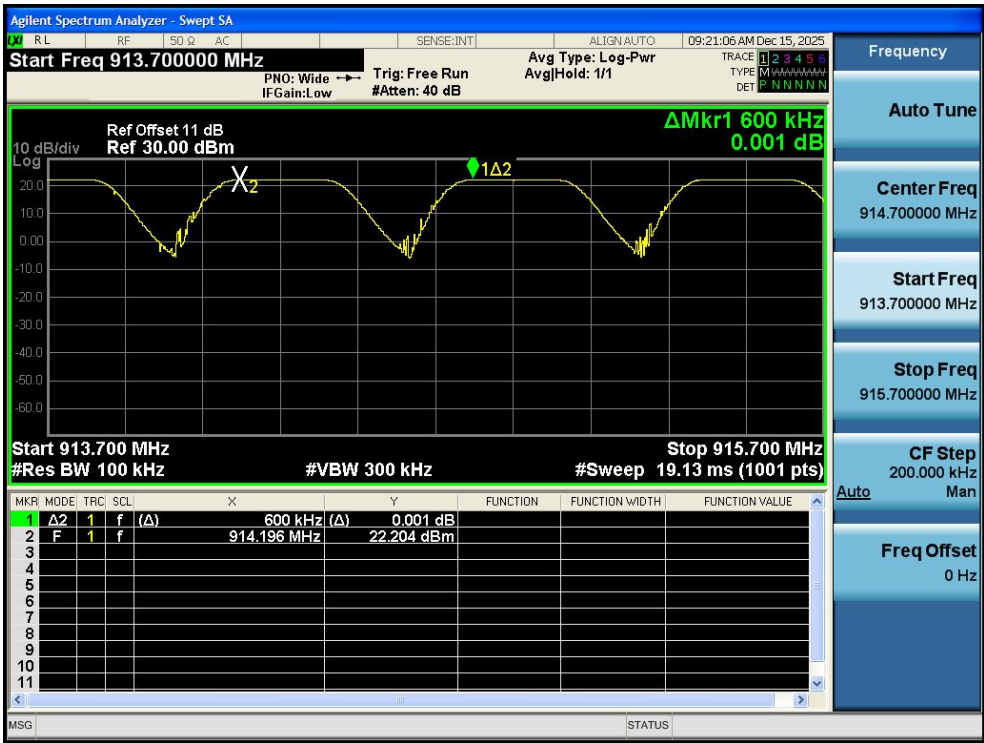
7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW =approximately 30% of the channel spacing.
- 3. Set the VBW $\geq$ RBW.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

7.4. Test Data

Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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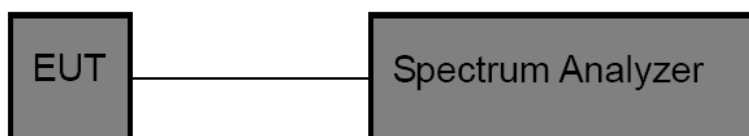
Hopping

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247(a)(1)(i)
Test Limit	≥ 50 channels for 20 dB bandwidth less than 250KHz ≥ 25 channels for 20 dB bandwidth greater than 250KHz

8.2. Test Setup



8.3. Test Procedure

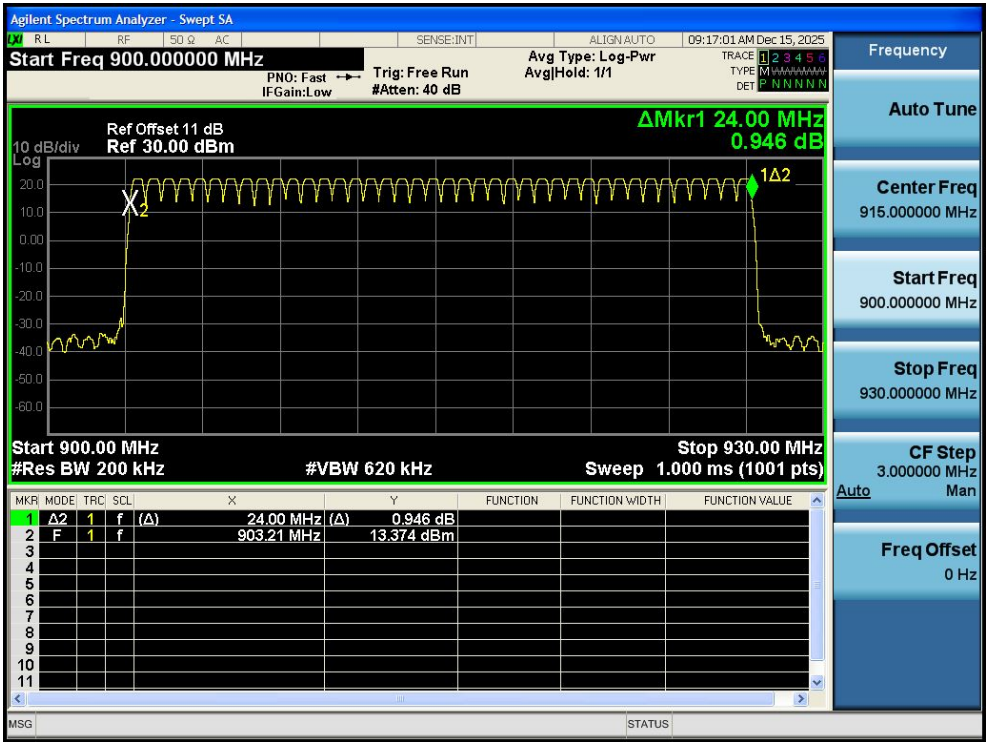
The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

1. Span= the frequency band of operation
2. Set the RBW = less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. Set the VBW $\geq$ RBW.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

8.4. Test Data

Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel
902-928MHz	40	≥ 25



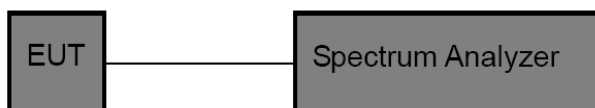
Hopping

9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247(a)(1)(i), 15.247(f)
Test Limit	15.247(a)(1)(i): if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. 15.247(f): For the purposes of this section, hybrid systems are those that employ a combination of both frequency hopping and digital modulation techniques. The frequency hopping operation of the hybrid system, with the direct sequence or digital modulation operation turned-off, shall have an average time of occupancy on any frequency not to exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4

9.2. Test Setup



9.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span= zero span, centered on a hopping channel
2. Set the RBW = 100 KHz.
3. Set the VBW = 300 KHz.
4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
5. Detector function = peak.
6. Trace mode = clear write.

9.4. Test Data

Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Requirement	Pulse width (ms)	Observe Period(s)	TotalHops [Num]	Dwell time (ms)	Limit (s)	Result
15.247(a)(1)(i)	10.80	10.00	22	237.6	0.40	PASS

Hopping

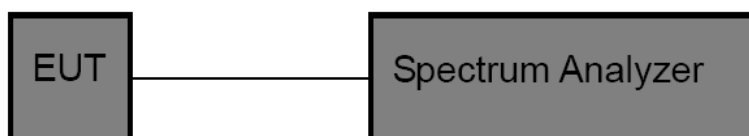
Hopping

10. 100kHz Bandwidth of Frequency Band Edge Requirement

10.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

10.2. Test Setup



10.3. Test Procedure

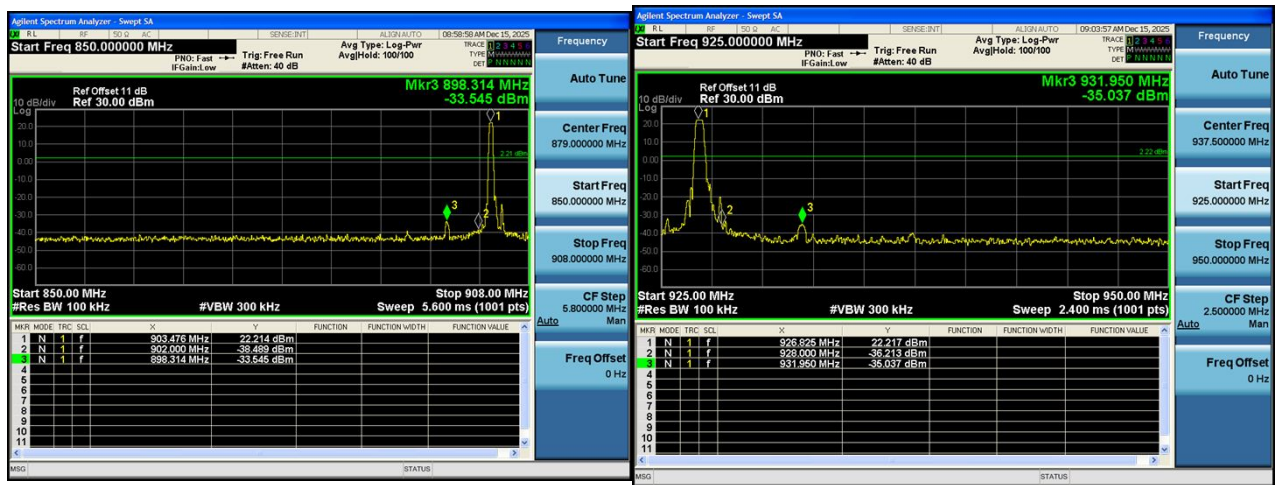
The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100kHz.
2. Set the VBW = 300kHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

10.4. Test Data

Temperature:	24.4 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Band edge measurements



For Low channel Non-Hopping Mode

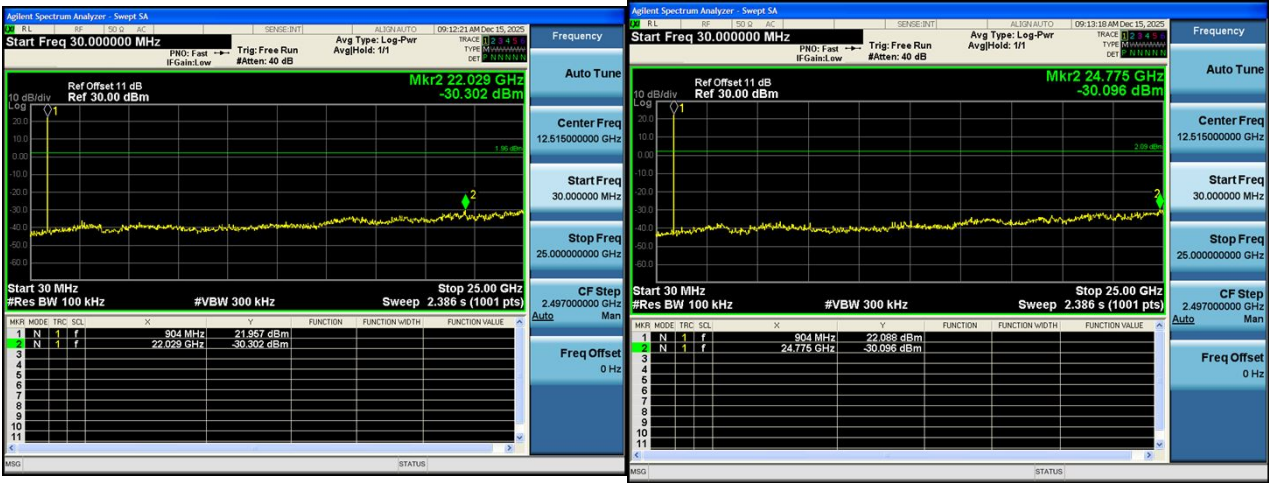
For High channel Non-Hopping Mode



For Low channel Hopping Mode

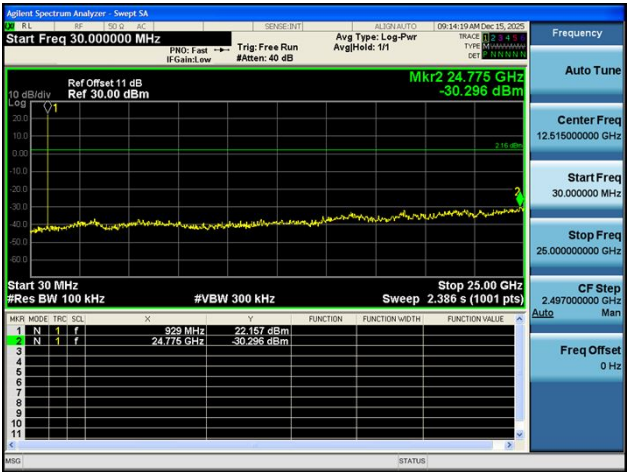
For High channel Hopping Mode

Conducted Emission Method



Low Channel

Mid Channel



High Channel

11. Antenna Requirement

11.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	Refer to 47 CFR Part 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

11.2. Antenna Connected Construction

The antenna is Rod Antenna which permanently attached, and the best case gain of the antenna is 4.98dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----