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Qingdao Richmat Intelligence Technology Inc

RF TEST REPORT

Report Type:
FCC Part 15.247 RF report

Model:
HJC11

REPORT NUMBER:
2502B1872SHA-001

ISSUE DATE:
Apr 2, 2025

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 2502B1872SHA-001

Applicant:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.
Manufacturer:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.
FCC ID:	2AJJGHJC11

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
47CFR Part 15 (2023): Radio Frequency Devices (Subpart C) **ANSI C63.10 (2013):** American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:	**REVIEWED BY:**
Project Engineer Teddy Yin	Reviewer Wakeyou Wang

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TEST REPORT

Content

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
2502B1872SHA-001	Rev. 01	Initial issue of report	Apr 2, 2025

TEST REPORT

Measurement result summary

TEST ITEM	FCC REFERANCE	RESULT
20 dB Bandwidth	15.247(a)(1)	Pass
Carrier Frequency Separation	15.247(a)(1)	Pass
Output power	15.247(b)(1)	Pass
Radiated Emissions	15.205 & 15.209	Pass
Conducted Spurious Emissions & Band Edge	15.247(d)	Pass
Power line conducted emission	15.207	Pass
Number of Hopping Frequencies	15.247(a)(1)(iii)	Pass
Dwell time	15.247(a)(1)(iii)	Pass
Occupied bandwidth	-	Tested
Antenna requirement	15.203	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	control box
Type/Model:	HJC11
Description of EUT:	The EUT is control box that contains classic BT function. The worst data is listed in the report.
Rating:	DC 24-30V
EUT type:	☒ Table top ☐ Floor standing
Software Version:	(P1)BKZQ(S)A3(V0.10)-250115
Hardware Version:	(P1)BKZQ(H)A20(V0.13)-241217
Sample No.:	A250226-75-001
Sample received date:	Mar 12, 2025
Date of test:	Mar 12~26, 2025

1.2 Technical Specification

Frequency Range:	2402MHz ~ 2480MHz
Support Standards:	Bluetooth 5.0 (BR+EDR)
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4 DQPSK, 8DPSK
Channel Number:	79 (0 - 78)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Channel Separation:	1 MHz
Antenna:	1.71dBi, PCB antenna(Declared by manufacturer)

1.3 Frequency Hopping System Requirement

Test Requirement: Section 15.247 (a)(1), (g), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

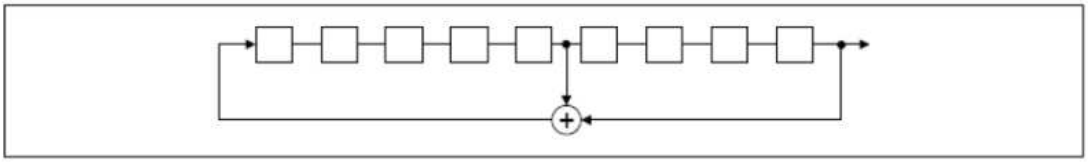
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

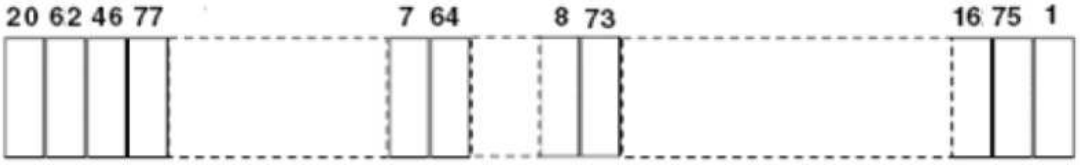
According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs;
i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2^9 -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.
According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.
According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

1.4 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2023)
ANSI C63.10 (2013)

2.2 Mode of operation during the test

While testing the transmitter mode of the EUT, the internal modulation is applied.
All the functions of the host device except the BT module were set on stand-by mode.

The test setting software is offered by the manufactory. The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

The worst-case modulation configuration:

Worst Modulation Used for Conformance Testing			
Bluetooth Mode	**Data Rate**	**Packet Type**	**Worst Mode**
GFSK	BR-1Mbps	DH1,DH3,DH5	**BR-1Mbps DH5** EDR-2Mbps 2DH5 EDR-3Mbps 3DH5
π/4 DQPSK	EDR-2Mbps	2DH1,2DH3,2DH5	
8DPSK	EDR-3Mbps	3DH1,3DH3,3DH5	
Note: The BR-1Mbps DH5 mode was chosen for radiation emission bellow 1GHz and Conducted emission testing as representative in this report.			

The power setting parameter:

The worst-case power setting parameter			
Test software Version	FCC V2.24		
Modulation Mode	2402MHz	2441MHz	2480MHz
BR-1Mbps	0	0	0
EDR-2Mbps	0	0	0
EDR-3Mbps	0	0	0

Radiated test mode: EUT transmitted signal with BT antenna;
Conducted test mode: EUT transmitted signal from BT RF port connected to SPA directly;

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	DELL 5480	/
2	adaptor	ZB-H290030-F	Input:100-240V~, 50/60Hz, 1.8A Output:DC 29V, 3A, 87W

2.5 Test environment condition:

Test items	Temperature	Humidity
20 dB Bandwidth	22°C	55% RH
Output power		
Carrier Frequency Separation		
Number of Hopping Frequencies		
Dwell time		
Occupied bandwidth		
Conducted Spurious Emissions & Band Edge		
Power line conducted emission	22°C	55% RH
Radiated Emissions	22°C	55% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESR7	EC 6194	2026-02-27
☒	A.M.N.	R&S	ESH2-Z5	EC 3119	2025-07-23
☒	Shielded room	Zhongyu	-	EC 2838	2026-01-09
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2025-08-18
☒	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2026-03-19
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2025-12-07
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2026-03-20
☒	Horn antenna	ETS	3116c	EC 5955	2025-08-14
☒	Semi-anechoic chamber	Albatross	-	EC 3048	2026-07-11
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2026-03-05
☒	Coaxial cable	ETS	/	/	2026-03-05
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Therom-Hygrograph	Testo	175h1	EC 6640	2025-08-29
☒	Therom-Hygrograph	Testo	175h1	EC 6641	2025-08-29
☒	Thermo-Hygrograph	Testo	175h1	EC6642	2025-08-29

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	± 0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB

3 20dB bandwidth

Test result: Pass

3.1 Limit

☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

☒ Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

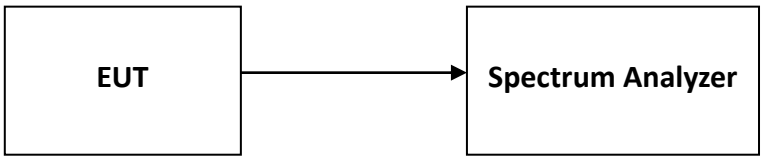
3.2 Measurement Procedure

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level.
d) Steps a) through c) might require iteration to adjust within the specified tolerances.
e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “−xx dB down” requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
f) Set detection mode to peak and trace mode to max hold.
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
h) Determine the “−xx dB down amplitude” using [(reference value) − xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “−xx dB down amplitude” determined in step h). If a marker is below this “−xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “−xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker

amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.3 Test Configuration



3.4 Test Results of 20dB bandwidth

Please refer to Appendix A.

4 Carrier Frequency Separation

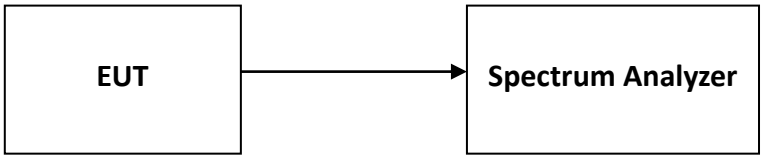
Test result: Pass

4.1 Limit

☐ Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

☒ Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

4.2 Test Configuration



4.3 Test Procedure and test setup

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

a) Span: Wide enough to capture the peaks of two adjacent channels.
b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
c) Video (or average) bandwidth (VBW) ≥ RBW.
d) Sweep: Auto.
e) Detector function: Peak.
f) Trace: Max hold.
g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

4.4 Test Results of Carrier Frequency Separation

Please refer to Appendix A.

5 Output power

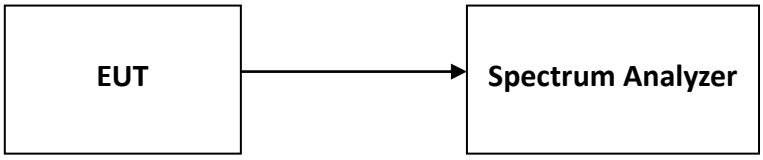
Test result: Pass

5.1 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. (The e.i.r.p. shall not exceed 4 W)

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 Test Configuration



5.3 Measurement Procedure

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:
   1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
   2) RBW > 20 dB bandwidth of the emission being measured.
   3) VBW ≥ RBW.
   4) Sweep: Auto.
   5) Detector function: Peak.
   6) Trace: Max hold.
b) Allow trace to stabilize.
c) Use the marker-to-peak function to set the marker to the peak of the emission.
d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
e) A plot of the test results and setup description shall be included in the test report.

5.4 Test Results of Output Power

Please refer to Appendix A.

6 Radiated Emissions

Test result: **Pass**

6.1 Limit

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

6.2 Measurement Procedure

For Radiated emission below 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters (0.1 meters for floor-standing device) above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, the lowest height of the magnetic antenna was 1 m above the ground.
c) Both X and Y axes of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) or 0.1 meters (for floor-standing device) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) The height of antenna is varied from one meter to four meters 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 meters and the rotatable table was turned from 0 degrees to 360 degrees 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 1 GHz.

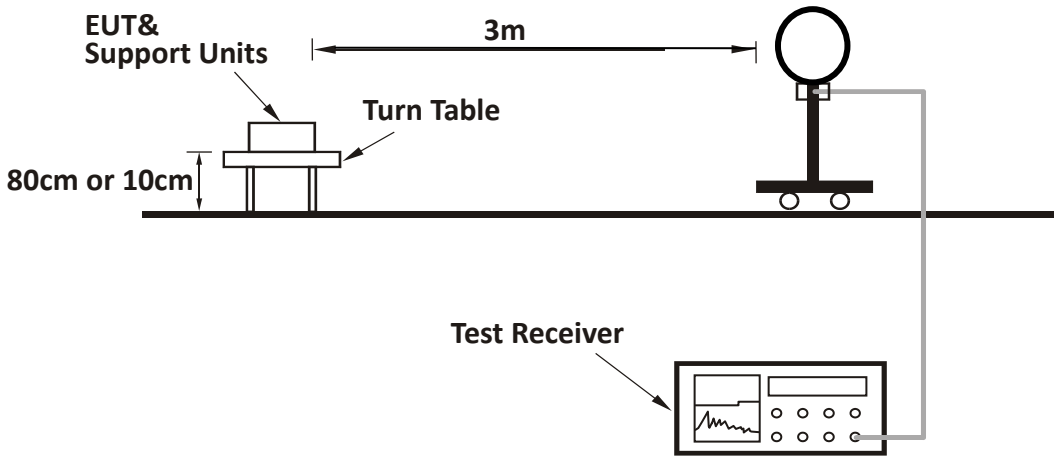
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

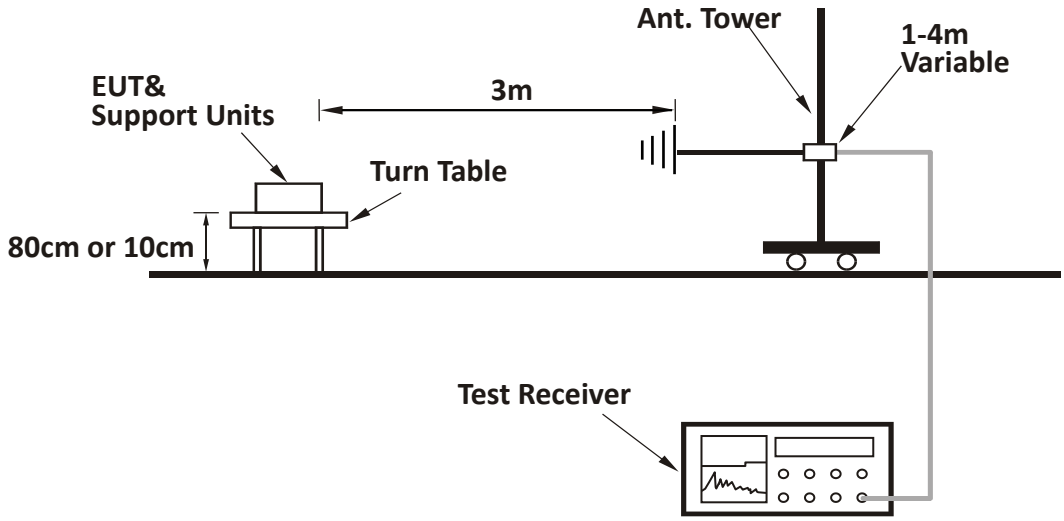
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

6.3 Test Configuration

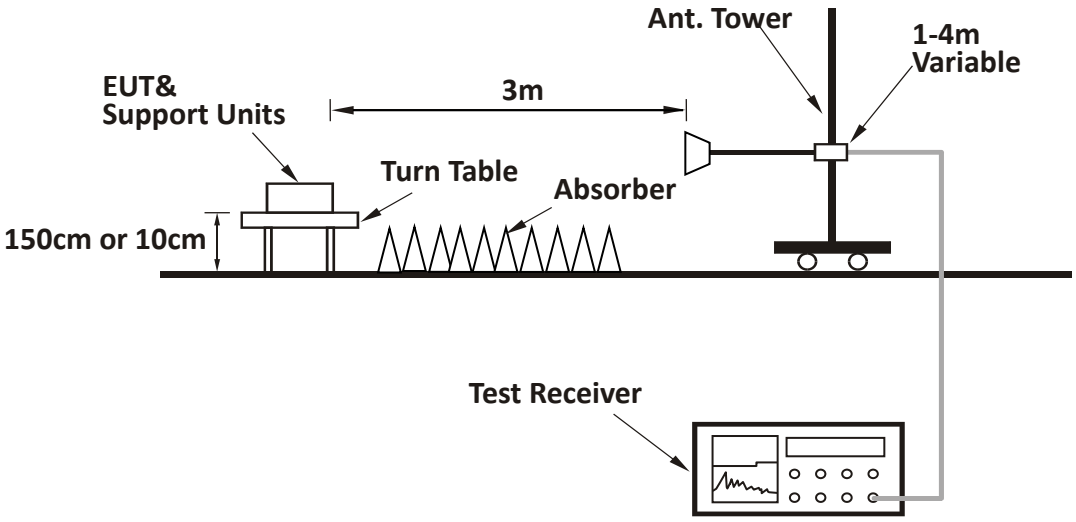
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



For Radiated emission above 1GHz:

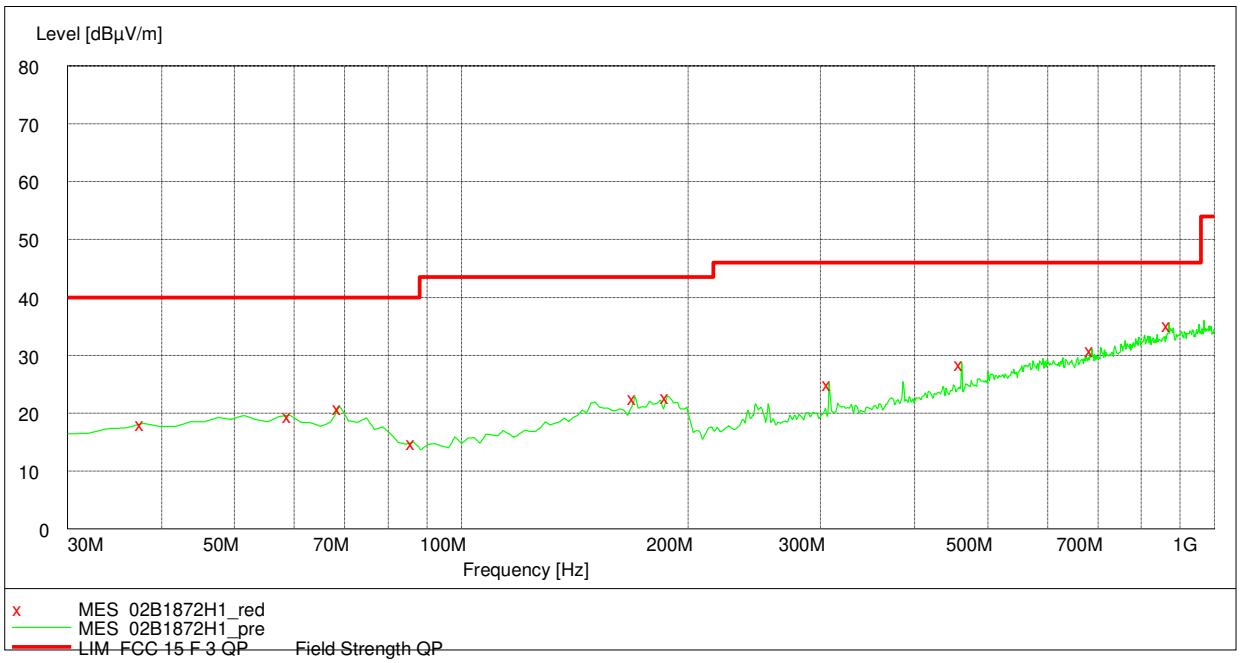


6.4 Test Results of Radiated Emissions

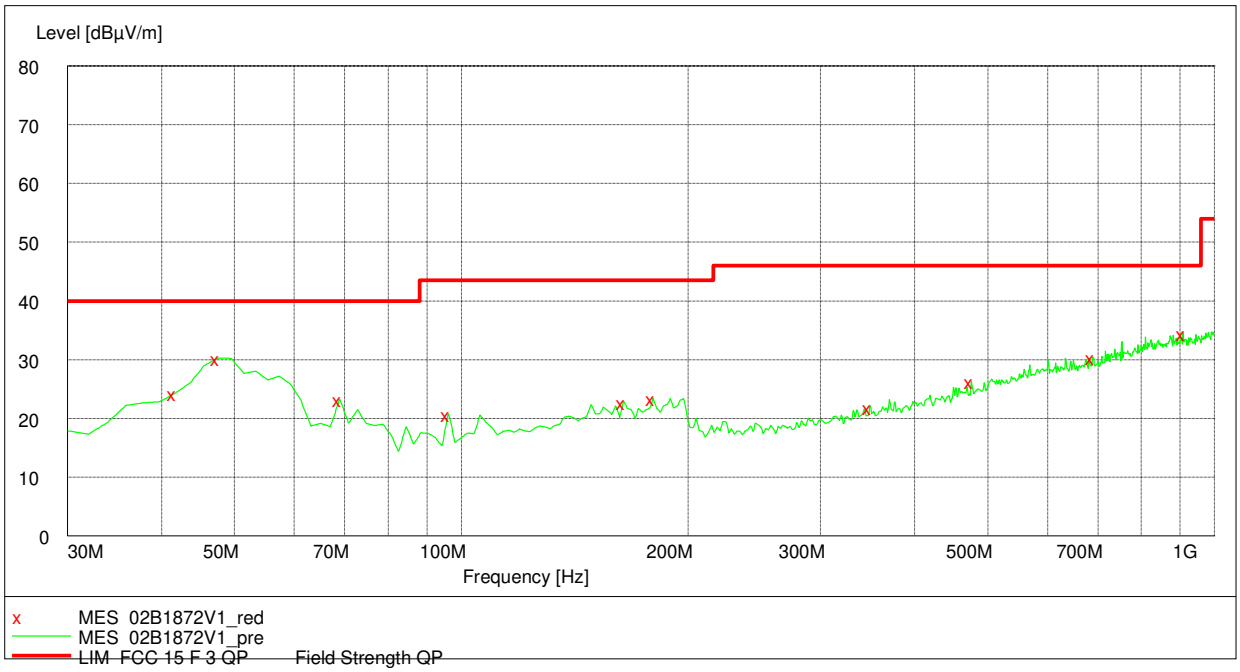
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:

Horizontal



Vertical



TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	68.88	21.10	12.80	40.00	18.90	PK
H	169.96	22.70	14.00	43.50	20.80	PK
H	187.45	23.00	12.40	43.50	20.50	PK
H	461.54	28.70	19.20	46.00	17.30	PK
H	687.03	31.10	23.40	46.00	14.90	PK
H	869.76	35.50	26.00	46.00	10.50	PK
V	41.66	24.30	13.90	40.00	15.70	PK
V	47.49	30.30	14.40	40.00	9.70	PK
V	68.88	23.30	12.80	40.00	16.70	PK
V	475.15	26.30	19.60	46.00	19.70	PK
V	688.98	30.50	23.40	46.00	15.50	PK
V	908.64	34.60	26.30	46.00	11.40	PK

Test result of 1GHz to 25GHz:

GFSK (DH5) Modulation:

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H/V	2390.00	32.60	49.95	74.00	24.05	PK
	H/V	2390.00	32.60	36.18	54.00	17.82	AV
	H/V	7206.00	-8.00	49.12	74.00	24.88	PK
	H/V	7206.00	-8.00	43.25	54.00	10.75	AV
	H/V	9608.00	0.40	58.71	74.00	15.29	PK
	H/V	9608.00	0.40	52.34	54.00	1.66	AV
M	H/V	7323.00	-7.40	47.80	74.00	26.20	PK
	H/V	7323.00	-7.40	41.77	54.00	12.23	AV
	H/V	9764.00	0.60	59.64	74.00	14.36	PK
	H/V	9764.00	0.60	53.52	54.00	0.48	AV
H	H/V	2483.50	32.90	57.98	74.00	16.02	PK
	H/V	2483.50	32.90	46.42	54.00	7.58	AV
	H/V	7440.00	-6.60	44.06	74.00	29.94	PK
	H/V	7440.00	-6.60	38.14	54.00	15.86	AV

	H/V	9920.00	1.00	59.25	74.00	14.75	PK
	H/V	9920.00	1.00	53.37	54.00	0.63	AV

π/4DQPSK (2DH5) Modulation:

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H/V	2390.00	32.60	49.69	74.00	24.31	PK
	H/V	2390.00	32.60	36.17	54.00	17.83	AV
	H/V	7206.00	-8.00	48.14	74.00	25.86	PK
	H/V	7206.00	-8.00	42.33	54.00	11.67	AV
	H/V	9608.00	0.40	58.73	74.00	15.27	PK
	H/V	9608.00	0.40	52.34	54.00	1.66	AV
M	H/V	7323.00	-7.40	44.95	74.00	29.05	PK
	H/V	7323.00	-7.40	38.83	54.00	15.17	AV
	H/V	9764.00	0.60	59.72	74.00	14.28	PK
	H/V	9764.00	0.60	53.62	54.00	0.38	AV
H	H/V	2483.50	32.90	57.23	74.00	16.77	PK
	H/V	2483.50	32.90	45.96	54.00	8.04	AV
	H/V	7440.00	-6.60	42.17	74.00	31.83	PK
	H/V	7440.00	-6.60	36.04	54.00	17.96	AV
	H/V	9920.00	1.00	59.44	74.00	14.56	PK
	H/V	9920.00	1.00	53.41	54.00	0.59	AV

8DPSK (3DH5) Modulation:

CH	Antenna	Frequency (MHz)	Correct Factor (dB/m)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H/V	2390.00	32.60	49.63	74.00	24.37	PK
	H/V	2390.00	32.60	36.13	54.00	17.87	AV
	H/V	7206.00	-8.00	48.53	74.00	25.47	PK
	H/V	7206.00	-8.00	42.31	54.00	11.69	AV
	H/V	9608.00	0.40	58.56	74.00	15.44	PK
	H/V	9608.00	0.40	52.25	54.00	1.75	AV
M	H/V	7323.00	-7.40	45.32	74.00	28.68	PK
	H/V	7323.00	-7.40	39.38	54.00	14.62	AV
	H/V	9764.00	0.60	59.51	74.00	14.49	PK
	H/V	9764.00	0.60	53.24	54.00	0.76	AV

TEST REPORT

H	H/V	2483.50	32.90	57.48	74.00	16.52	PK
	H/V	2483.50	32.90	46.08	54.00	7.92	AV
	H/V	7440.00	-6.60	43.18	74.00	30.82	PK
	H/V	7440.00	-6.60	37.11	54.00	16.89	AV
	H/V	9920.00	1.00	59.22	74.00	14.78	PK
	H/V	9920.00	1.00	53.29	54.00	0.71	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

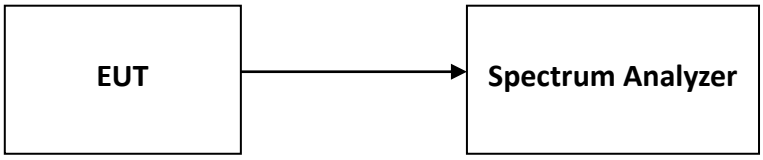
7 Conducted Spurious Emissions & Band Edge

Test result: **Pass**

7.1 Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

7.2 Test Configuration



7.3 Measurement Procedure

a) Connect the EMI receiver or spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e)
b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent “normal mode of operation” as specified in 6.10.3. of ANSI C63.10.
d) If using the radiated method, then use the applicable procedure(s) of 6.4, 6.5, or 6.6 of ANSI C63.10, and orient the EUT and measurement antenna positions to produce the highest emission level.
e) Perform the test as follows:
   1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
   2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level.
   3) Attenuation: Auto (at least 10 dB preferred).
   4) Sweep time: Coupled.
   5) Resolution bandwidth: 100 kHz
   6) Video bandwidth: 300 kHz
   7) Detector: Peak
   8) Trace: Max hold
f) Allow the trace to stabilize. For the test with the hopping function turned ON, this can take several

minutes to achieve a reasonable probability of intercepting any emissions due to oscillator overshoot.

g) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

h) Repeat step c) through step e) for every applicable modulation.

i) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).

j) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

7.4 Test Results of Conducted Spurious Emissions & Band Edge

Please refer to Appendix A

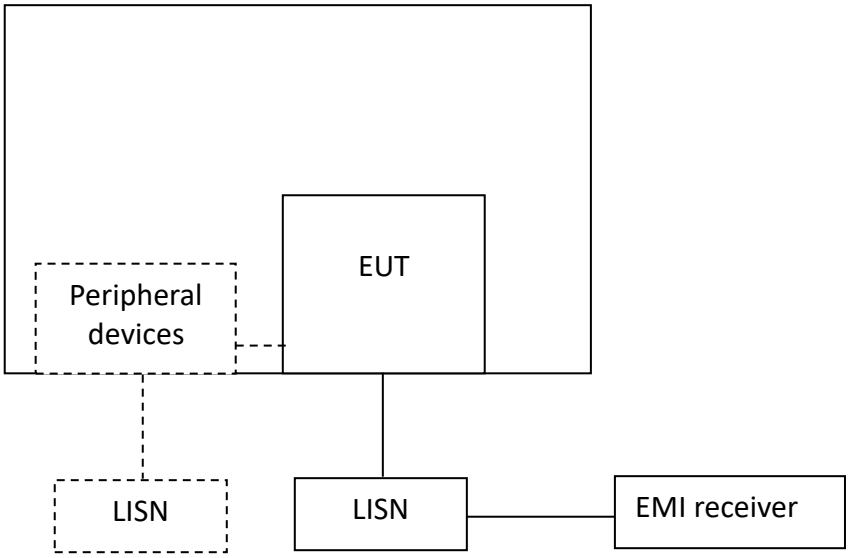
8 Power line conducted emission

Test result: **Pass**

8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
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.		

8.2 Test Configuration



8.3 Measurement Procedure

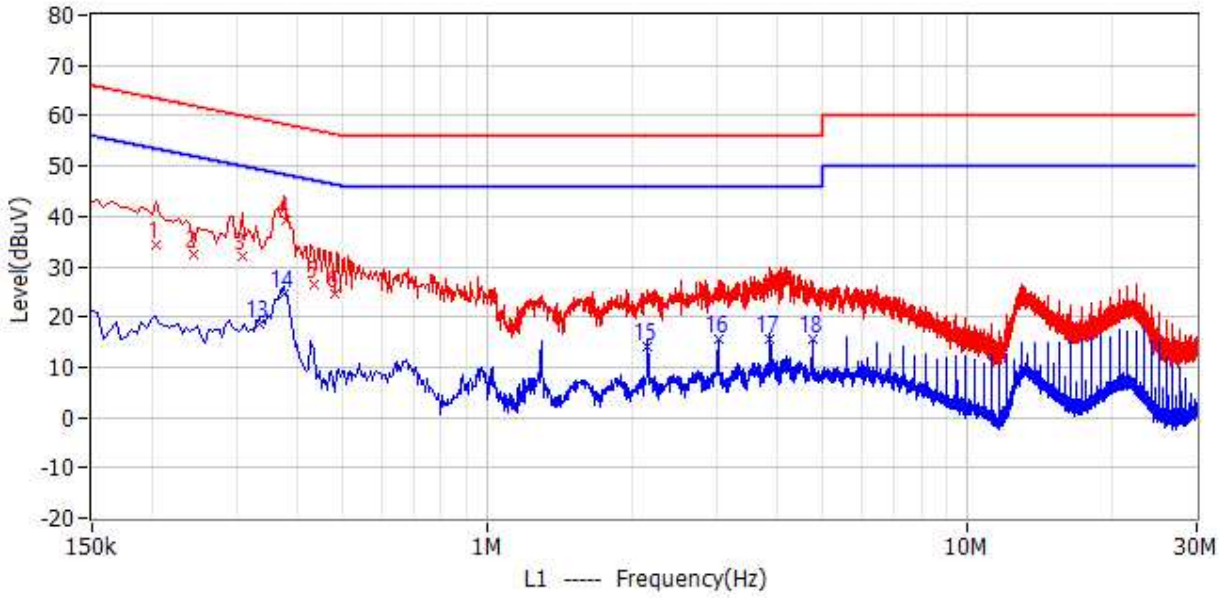
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

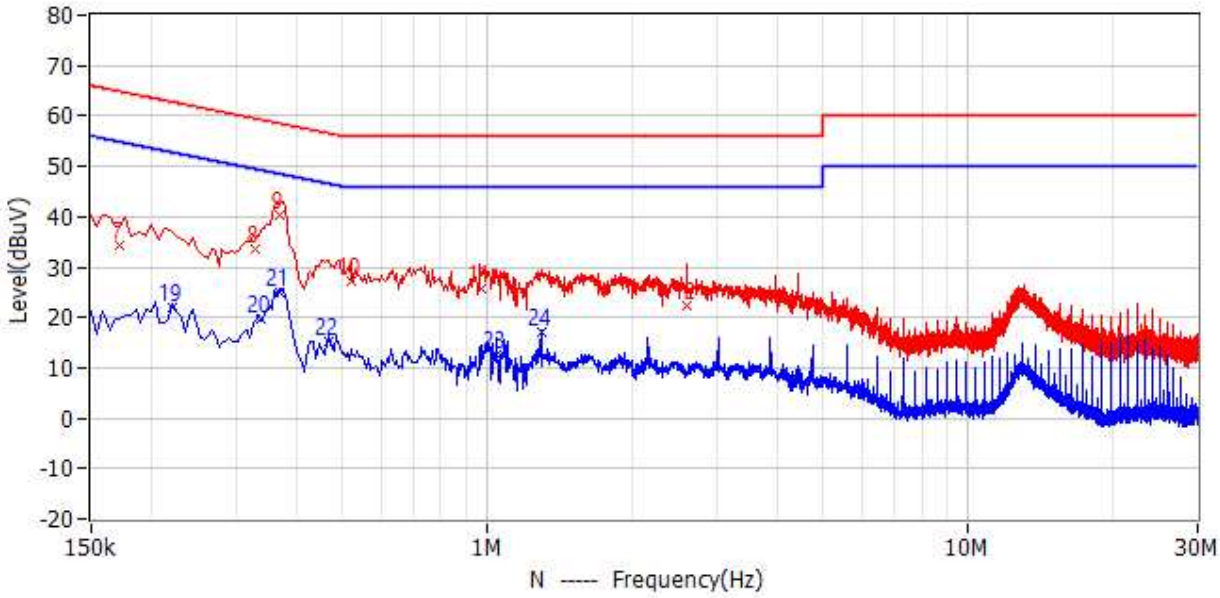
Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

8.4 Test Results of Power line conducted emission

Power supply: 120V~, 60Hz





No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	204.000kHz	63.45	34.40	-29.05	28.20	6.20	QP	L1
2	244.500kHz	61.94	32.47	-29.47	26.27	6.20	QP	L1
3	307.500kHz	60.04	32.18	-27.86	25.98	6.20	QP	L1
4	379.500kHz	58.29	39.25	-19.04	33.05	6.20	QP	L1
5	433.500kHz	57.19	26.34	-30.85	20.14	6.20	QP	L1
6	478.500kHz	56.37	24.51	-31.86	18.31	6.20	QP	L1
7	172.500kHz	64.84	34.28	-30.56	28.18	6.10	QP	N

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No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
8	330.000kHz	59.45	33.46	-25.99	27.26	6.20	QP	N
9	370.500kHz	58.49	40.16	-18.33	33.96	6.20	QP	N
10	519.000kHz	56.00	27.35	-28.65	21.15	6.20	QP	N
11	973.500kHz	56.00	25.52	-30.48	19.32	6.20	QP	N
12	2.594MHz	56.00	22.20	-33.80	16.00	6.20	QP	N
13	334.500kHz	49.34	18.63	-30.71	12.43	6.20	CAV	L1
14	375.000kHz	48.39	24.67	-23.72	18.47	6.20	CAV	L1
15	2.157MHz	46.00	14.23	-31.77	8.03	6.20	CAV	L1
16	3.017MHz	46.00	15.56	-30.44	9.26	6.30	CAV	L1
17	3.881MHz	46.00	15.55	-30.45	9.25	6.30	CAV	L1
18	4.740MHz	46.00	15.49	-30.51	9.19	6.30	CAV	L1
19	222.000kHz	52.74	22.08	-30.66	15.88	6.20	CAV	N
20	339.000kHz	49.23	19.68	-29.55	13.48	6.20	CAV	N
21	370.500kHz	48.49	24.86	-23.63	18.66	6.20	CAV	N
22	469.500kHz	46.52	15.26	-31.26	9.06	6.20	CAV	N
23	1.041MHz	46.00	12.66	-33.34	6.46	6.20	CAV	N
24	1.293MHz	46.00	17.13	-28.87	10.93	6.20	CAV	N

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Factor

3. Delta = Level- Limit

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

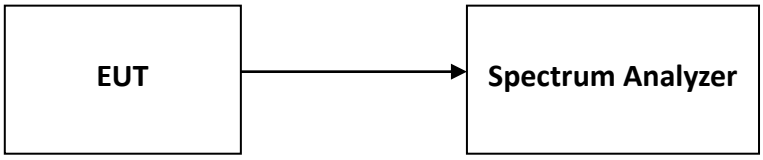
9 Number of Hopping Frequencies

Test result: **Pass**

9.1 Limit

Number of Hopping Frequencies in the 2400-2483.5 MHz band shall use at least 15 channels.

9.2 Test Configuration



9.3 Test procedure and test setup

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

a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
c) VBW ≥ RBW.
d) Sweep: Auto.
e) Detector function: Peak.
f) Trace: Max hold.
g) Allow the trace to stabilize.

9.4 Test Results of Number of Hopping Frequencies

Please refer to Appendix A

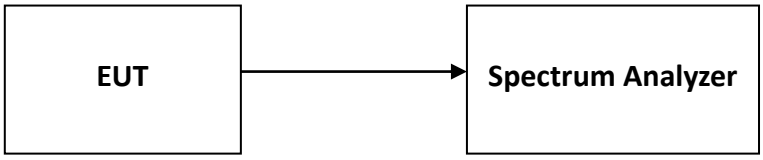
10 Dwell Time

Test result: **Pass**

10.1 Limit

The dwell time on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.2 Test Configuration



10.3 Test procedure and test setup

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

a) Span: Zero span, centered on a hopping channel.
b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
d) Detector function: Peak.
e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:
(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

10.4 Test Results of Dwell Time

Please refer to Appendix A

11 Occupied Bandwidth

Test result: **Tested**

11.1 Limit

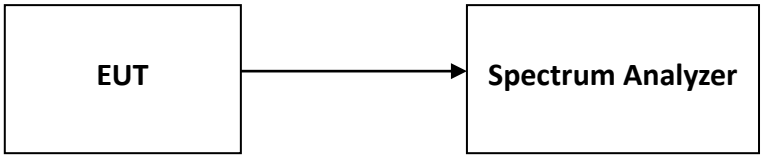
None

11.2 Measurement Procedure

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

11.3 Test Configuration



11.4 The results of Occupied Bandwidth

Please refer to Appendix A

12 Antenna requirement

Requirement:
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.

Result:
EUT uses a PCB antenna to the intentional radiator, so it can comply with the provisions of this section.

Appendix A: Test results

1. RF Output Power

1.1 Test Result and Data

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.04	≤20.97	PASS
DH5	Ant1	2441	-1.82	≤20.97	PASS
DH5	Ant1	2480	-3.15	≤20.97	PASS
2DH5	Ant1	2402	-0.62	≤20.97	PASS
2DH5	Ant1	2441	-1.38	≤20.97	PASS
2DH5	Ant1	2480	-2.93	≤20.97	PASS
3DH5	Ant1	2402	-0.20	≤20.97	PASS
3DH5	Ant1	2441	-0.92	≤20.97	PASS
3DH5	Ant1	2480	-2.53	≤20.97	PASS

Conclusion: The maximum EIRP = -0.20dBm+1.71dBi = 1.51dBm = 1.42mW which is lower than the limit of 4W listed in RSS-247.

DH5-Ant1-2402-PASS

DH5-Ant1-2441-PASS

DH5-Ant1-2480-PASS

2DH5-Ant1-2402-PASS

2DH5-Ant1-2441-PASS

2DH5-Ant1-2480-PASS

3DH5-Ant1-2402-PASS

3DH5-Ant1-2441-PASS

3DH5-Ant1-2480-PASS

2. 20dB Down Bandwidth

2.1 Test Result and Data

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.544	2402.492	---	PASS
DH5	Ant1	2441	0.945	2440.544	2441.489	---	PASS
DH5	Ant1	2480	1.029	2479.472	2480.501	---	PASS
2DH5	Ant1	2402	1.281	2401.376	2402.657	---	PASS
2DH5	Ant1	2441	1.359	2440.331	2441.690	---	PASS
2DH5	Ant1	2480	1.281	2479.376	2480.657	---	PASS
3DH5	Ant1	2402	1.281	2401.364	2402.645	---	PASS
3DH5	Ant1	2441	1.257	2440.370	2441.627	---	PASS
3DH5	Ant1	2480	1.242	2479.379	2480.621	---	PASS

DH5-Ant1-2402

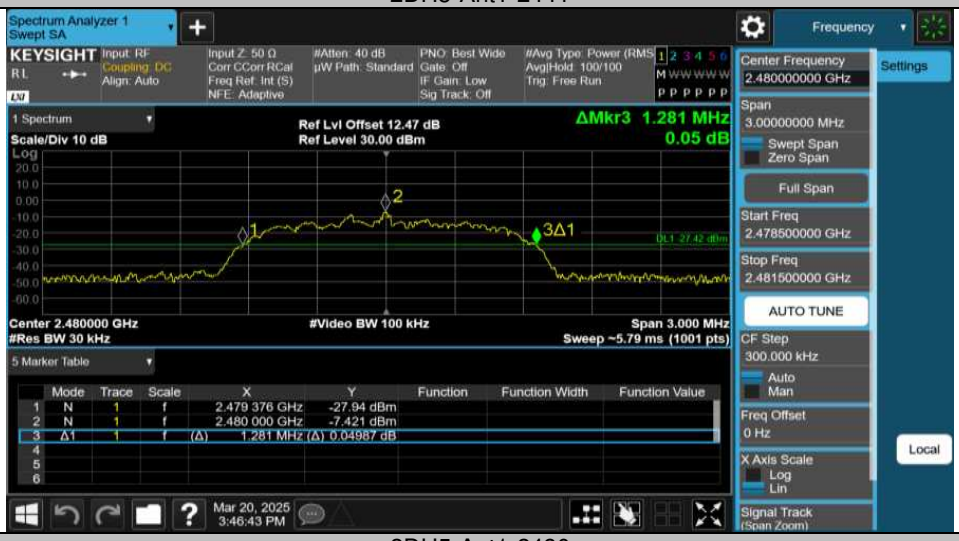
DH5-Ant1-2441

DH5-Ant1-2480

2DH5-Ant1-2402

TEST REPORT

2DH5-Ant1-2441



2DH5-Ant1-2480

3DH5-Ant1-2402

3DH5-Ant1-2441

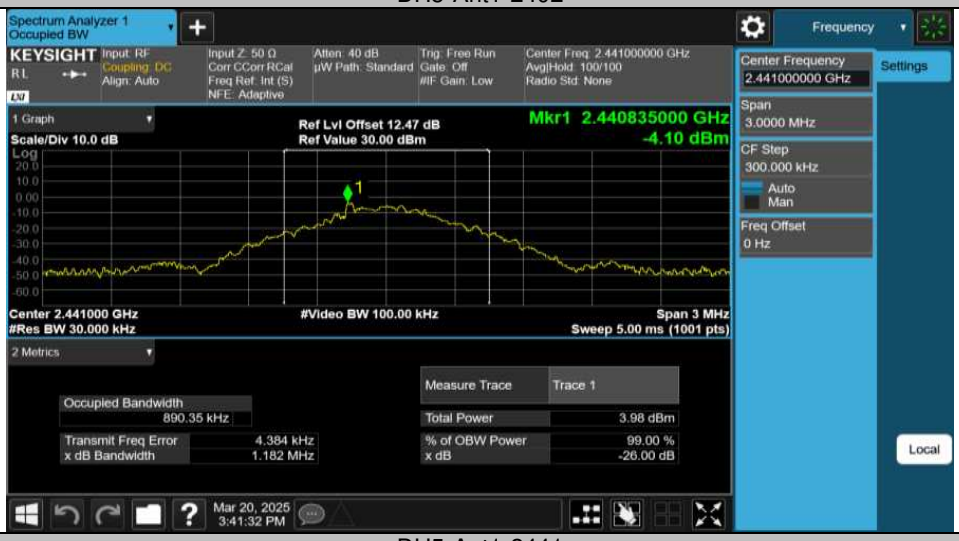
3DH5-Ant1-2480

3. 99% BandWidth

3.1 Test Result and Data

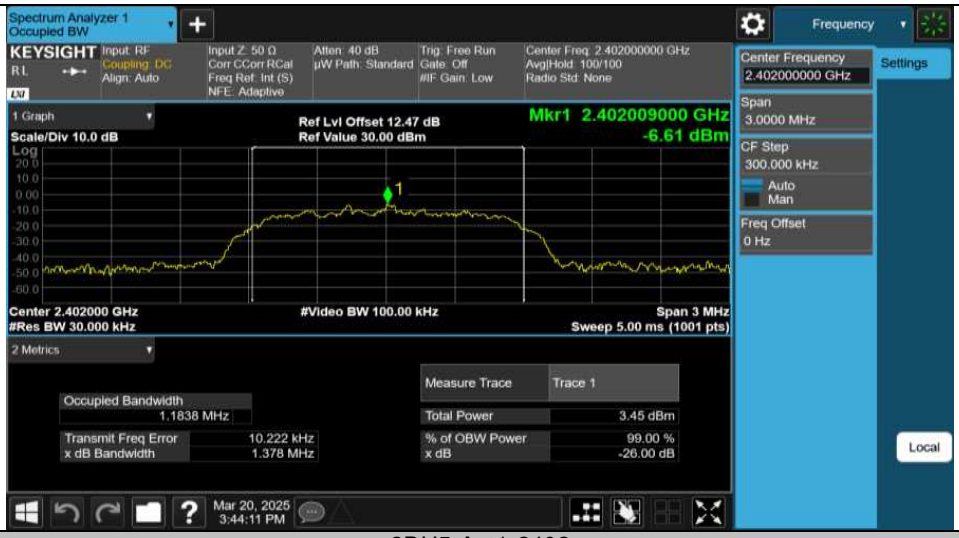
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90384	2401.5580	2402.4619	---	PASS
DH5	Ant1	2441	0.89035	2440.5592	2441.4496	---	PASS
DH5	Ant1	2480	0.90082	2479.5550	2480.4559	---	PASS
2DH5	Ant1	2402	1.1838	2401.4183	2402.6021	---	PASS
2DH5	Ant1	2441	1.1794	2440.4185	2441.5979	---	PASS
2DH5	Ant1	2480	1.1830	2479.4160	2480.5990	---	PASS
3DH5	Ant1	2402	1.1766	2401.4208	2402.5974	---	PASS
3DH5	Ant1	2441	1.1735	2440.4234	2441.5969	---	PASS
3DH5	Ant1	2480	1.1653	2479.4262	2480.5915	---	PASS

DH5-Ant1-2402

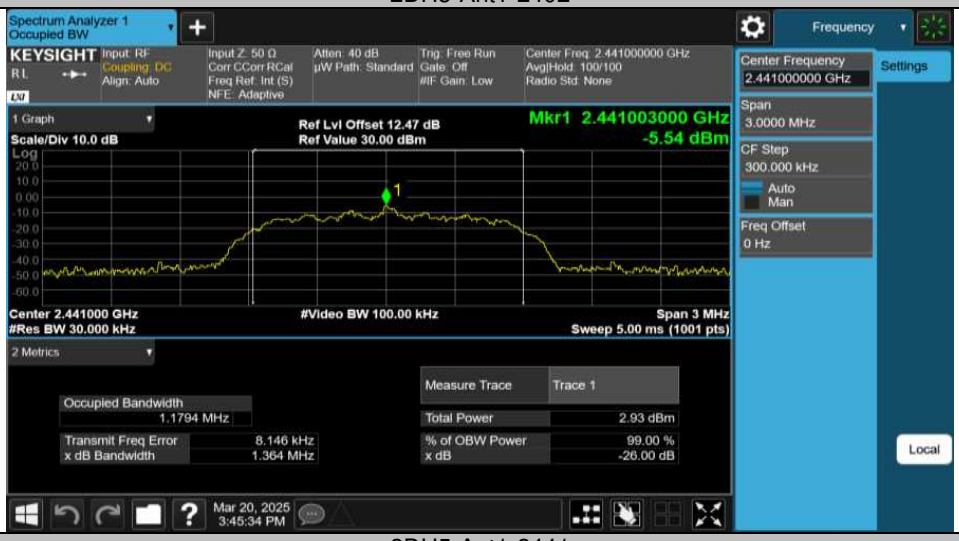


DH5-Ant1-2441

DH5-Ant1-2480



2DH5-Ant1-2402

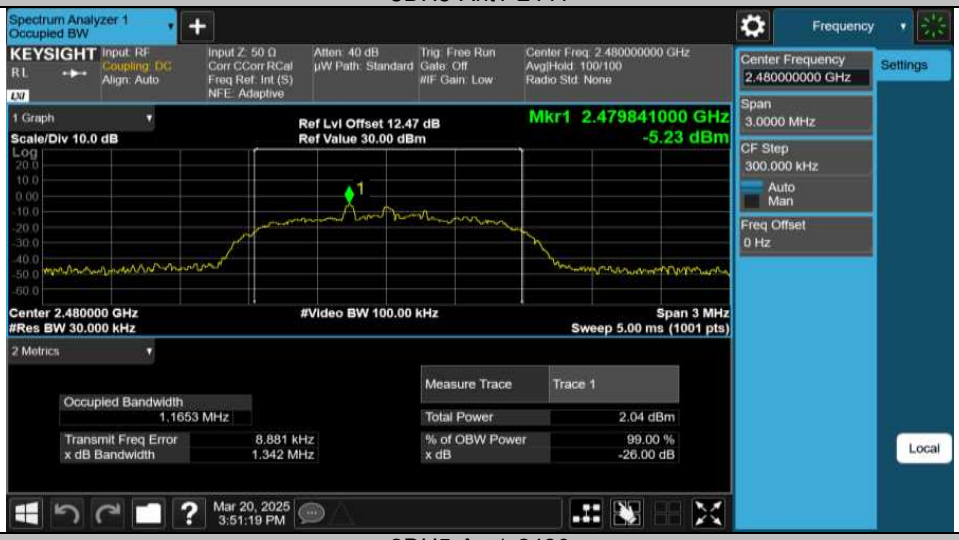


2DH5-Ant1-2441

2DH5-Ant1-2480

3DH5-Ant1-2402

3DH5-Ant1-2441



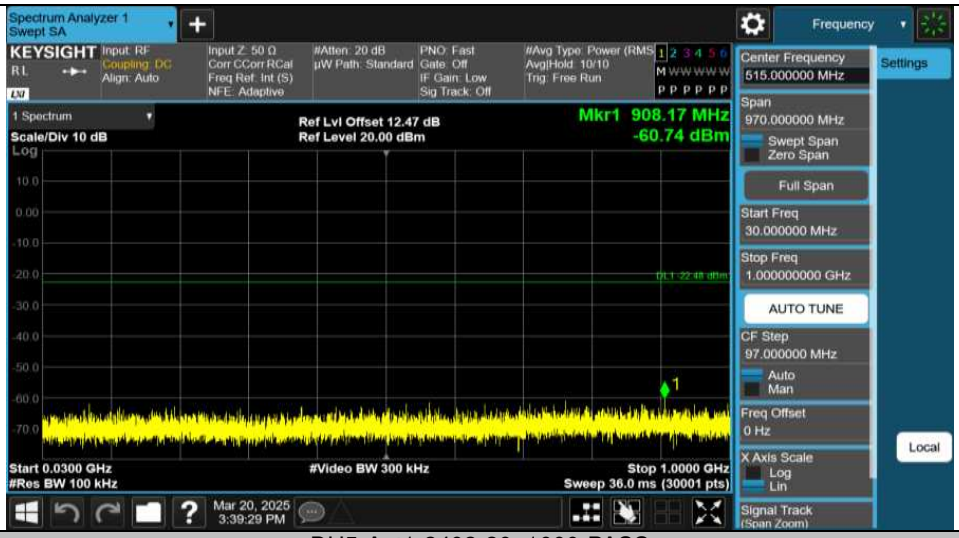
3DH5-Ant1-2480

4. Transmitter Spurious Emission

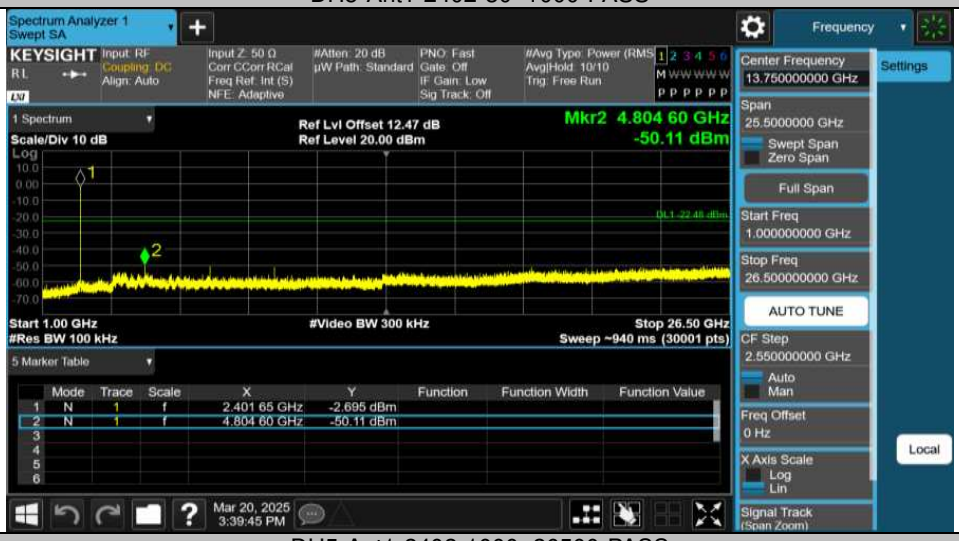
4.1 Test Result and Data

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.48	-2.48	---	PASS
DH5	Ant1	2402	30~1000	-2.48	-60.74	≤-22.48	PASS
DH5	Ant1	2402	1000~26500	-2.48	-50.11	≤-22.48	PASS
DH5	Ant1	2441	0~Reference	-2.86	-2.86	---	PASS
DH5	Ant1	2441	30~1000	-2.86	-59.43	≤-22.86	PASS
DH5	Ant1	2441	1000~26500	-2.86	-49.69	≤-22.86	PASS
DH5	Ant1	2480	0~Reference	-5.02	-5.02	---	PASS
DH5	Ant1	2480	30~1000	-5.02	-61.03	≤-25.02	PASS
DH5	Ant1	2480	1000~26500	-5.02	-49.24	≤-25.02	PASS
2DH5	Ant1	2402	0~Reference	-3.05	-3.05	---	PASS
2DH5	Ant1	2402	30~1000	-3.05	-61.44	≤-23.05	PASS
2DH5	Ant1	2402	1000~26500	-3.05	-47.48	≤-23.05	PASS
2DH5	Ant1	2441	0~Reference	-3.79	-3.79	---	PASS
2DH5	Ant1	2441	30~1000	-3.79	-61.61	≤-23.79	PASS
2DH5	Ant1	2441	1000~26500	-3.79	-48.96	≤-23.79	PASS
2DH5	Ant1	2480	0~Reference	-4.77	-4.77	---	PASS
2DH5	Ant1	2480	30~1000	-4.77	-61.43	≤-24.77	PASS
2DH5	Ant1	2480	1000~26500	-4.77	-49.55	≤-24.77	PASS
3DH5	Ant1	2402	0~Reference	-2.11	-2.11	---	PASS
3DH5	Ant1	2402	30~1000	-2.11	-61.99	≤-22.11	PASS
3DH5	Ant1	2402	1000~26500	-2.11	-48.96	≤-22.11	PASS
3DH5	Ant1	2441	0~Reference	-3.03	-3.03	---	PASS
3DH5	Ant1	2441	30~1000	-3.03	-61.11	≤-23.03	PASS
3DH5	Ant1	2441	1000~26500	-3.03	-48.75	≤-23.03	PASS
3DH5	Ant1	2480	0~Reference	-7.50	-7.50	---	PASS
3DH5	Ant1	2480	30~1000	-7.50	-59.84	≤-27.5	PASS
3DH5	Ant1	2480	1000~26500	-7.50	-49.27	≤-27.5	PASS

DH5-Ant1-2402-0~Reference-PASS

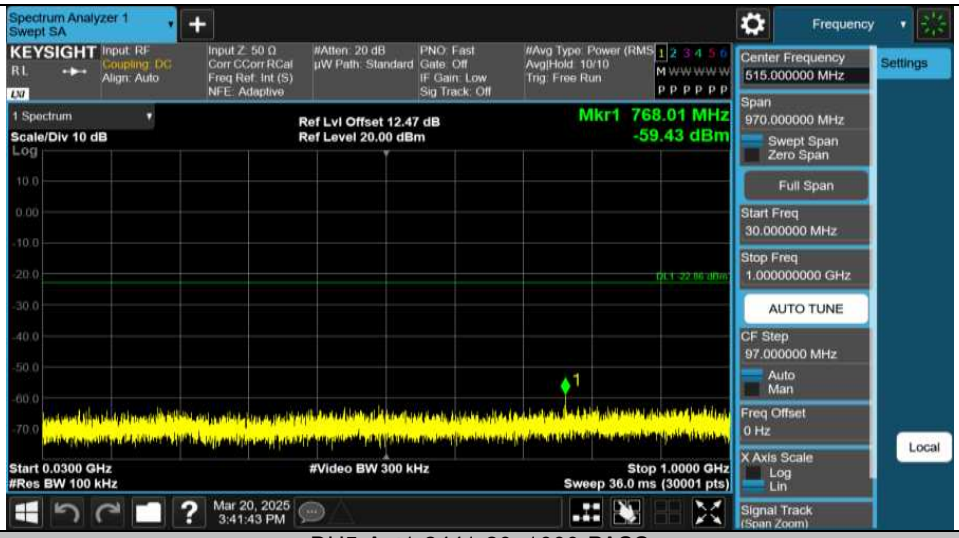


DH5-Ant1-2402-30~1000-PASS

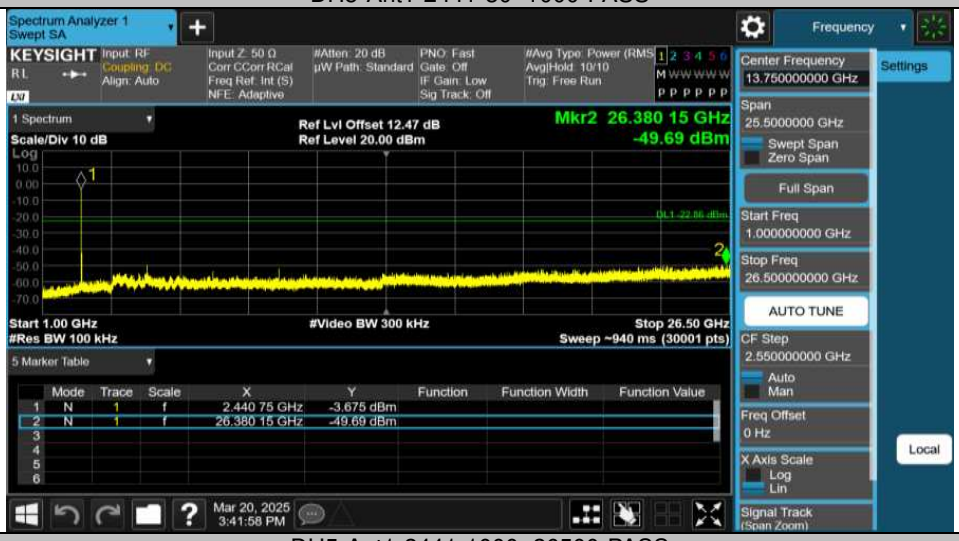


DH5-Ant1-2402-1000~26500-PASS

DH5-Ant1-2441-0~Reference-PASS



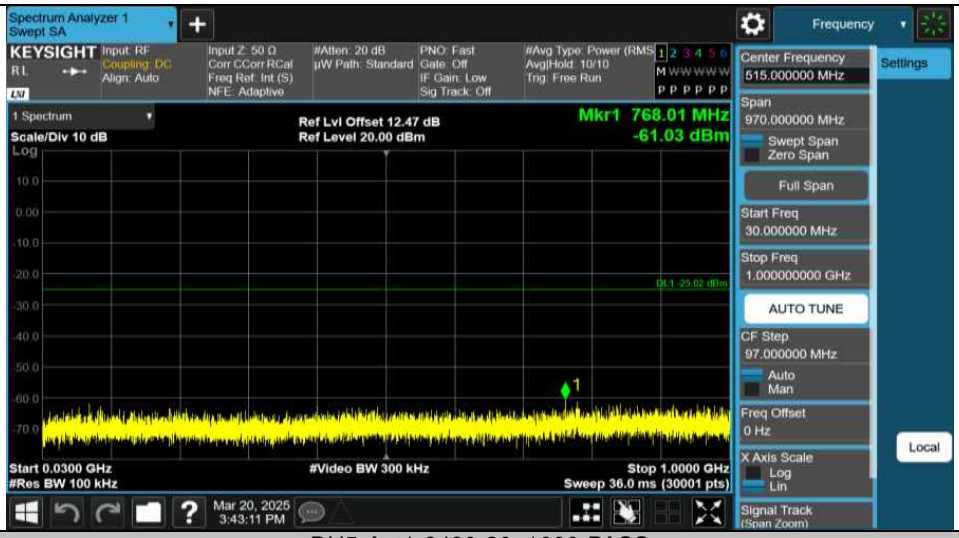
DH5-Ant1-2441-30~1000-PASS



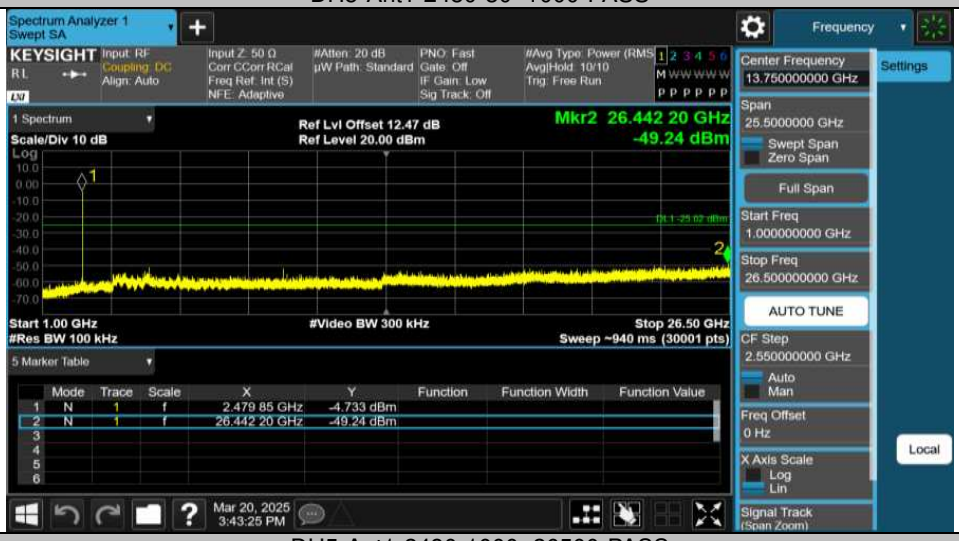
DH5-Ant1-2441-1000~26500-PASS

DH5-Ant1-2480-0~Reference-PASS

TEST REPORT

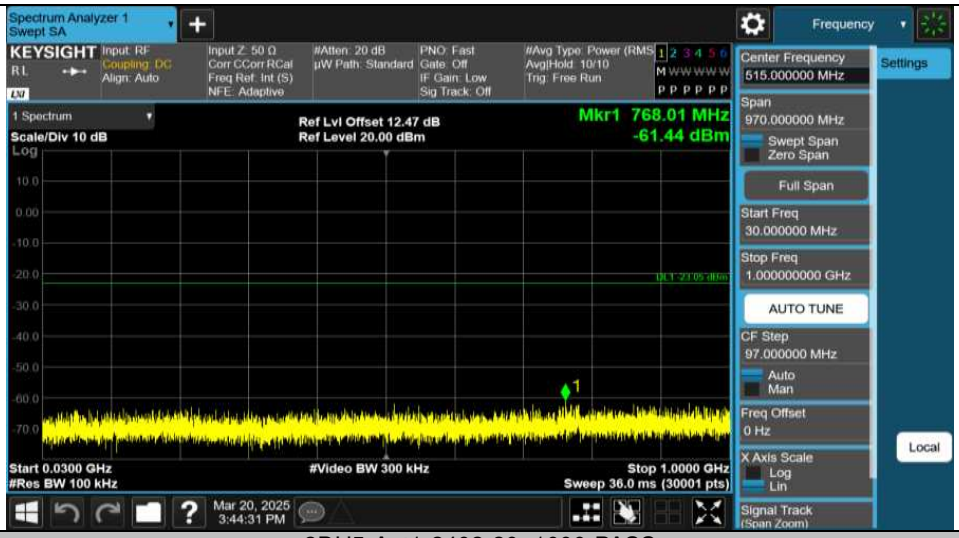


DH5-Ant1-2480-30~1000-PASS

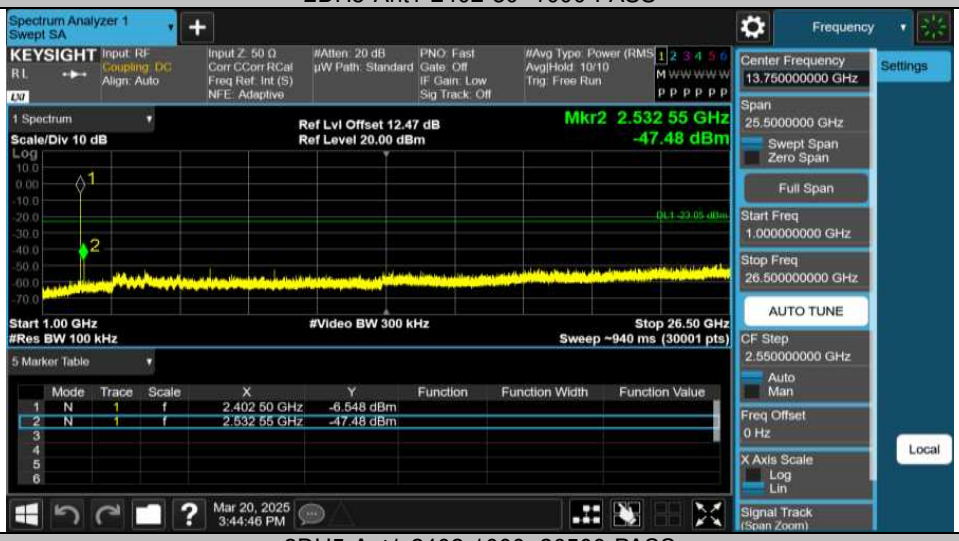


DH5-Ant1-2480-1000~26500-PASS

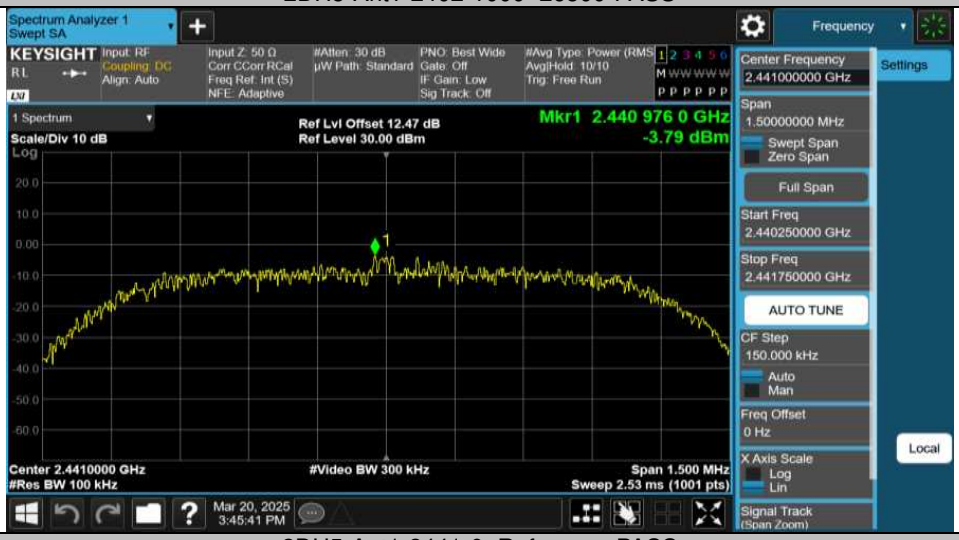
2DH5-Ant1-2402-0~Reference-PASS



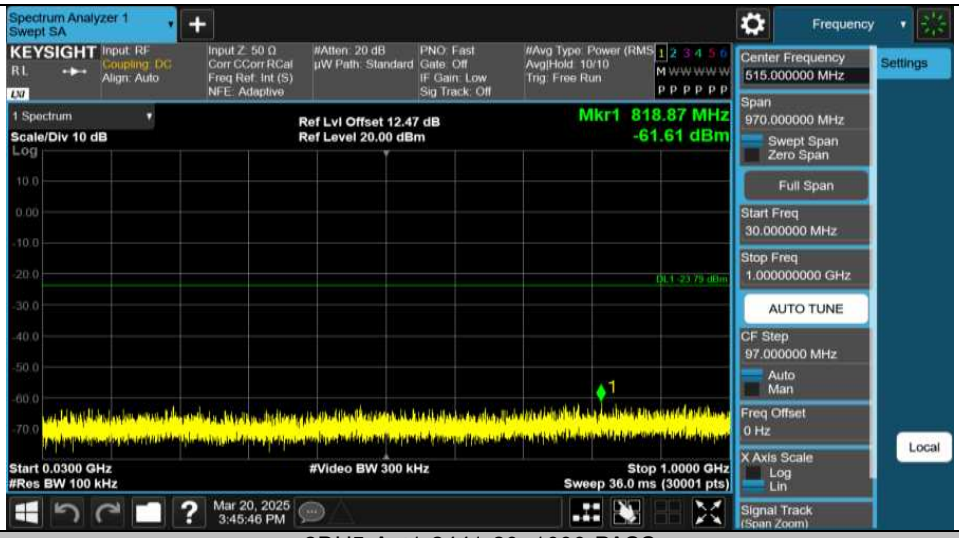
2DH5-Ant1-2402-30~1000-PASS



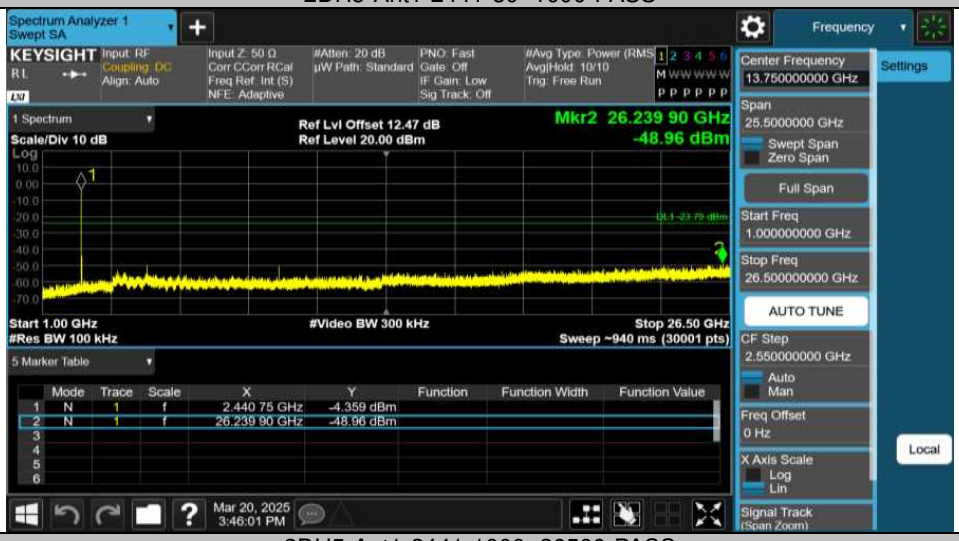
2DH5-Ant1-2402-1000~26500-PASS



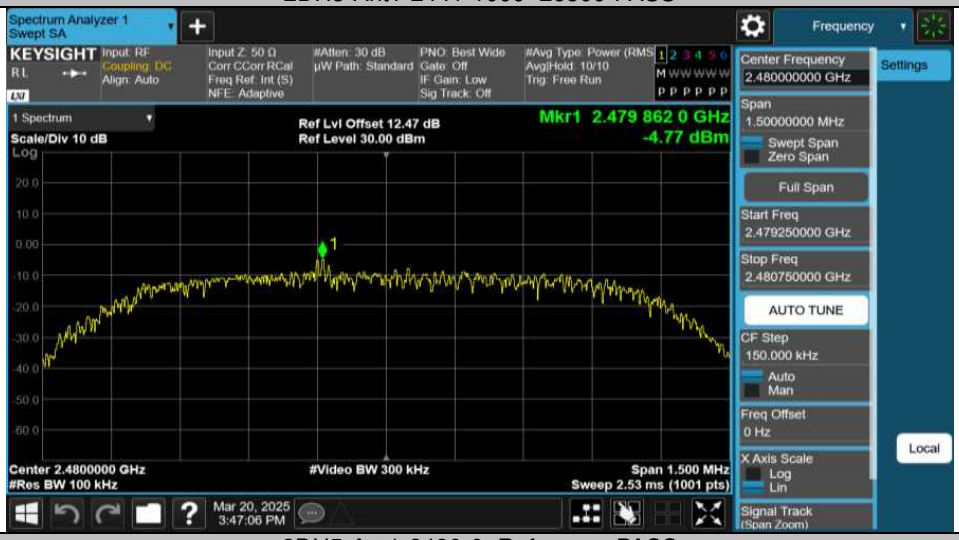
2DH5-Ant1-2441-0~Reference-PASS



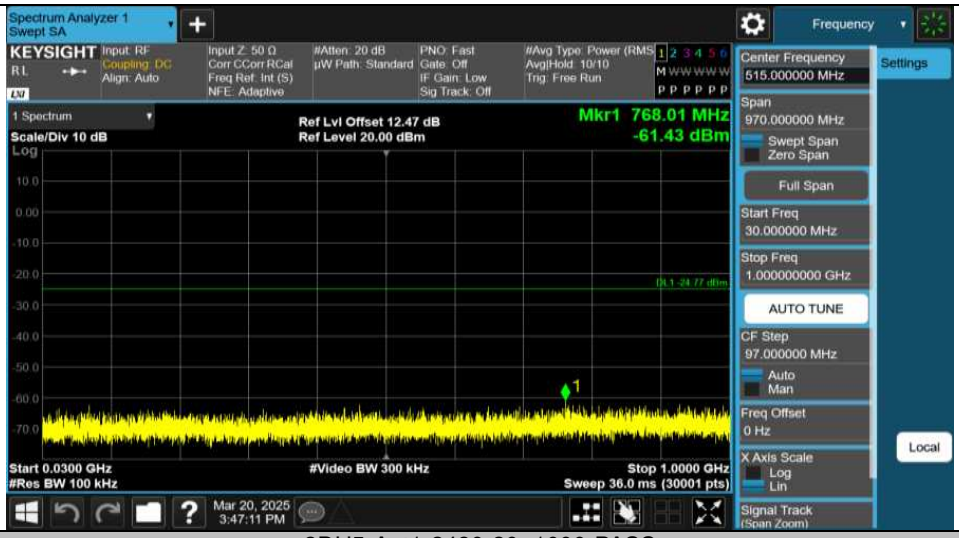
2DH5-Ant1-2441-30~1000-PASS



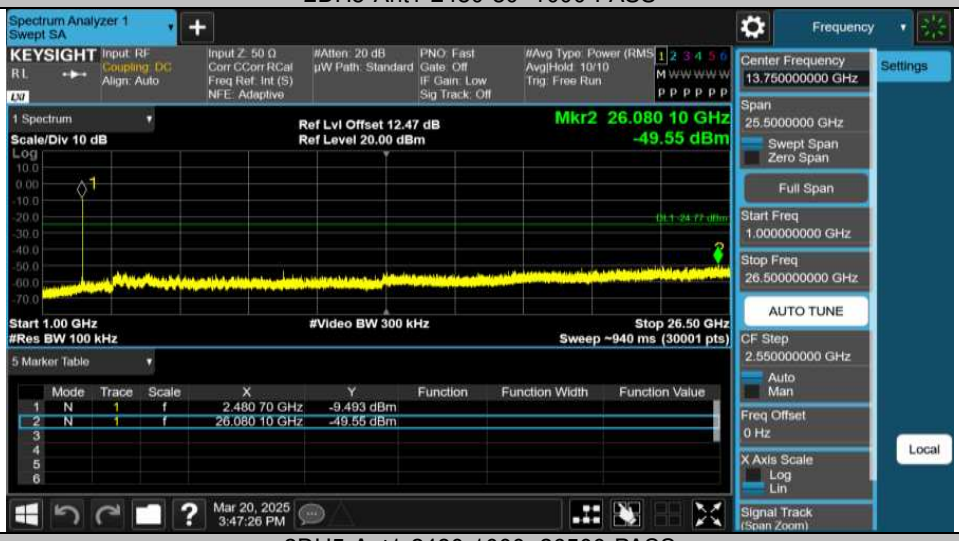
2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS

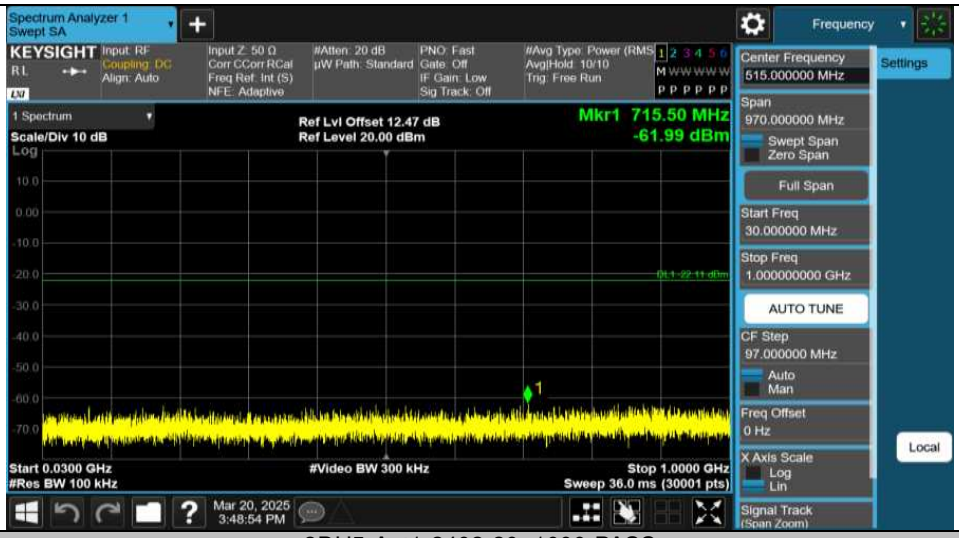


2DH5-Ant1-2480-30~1000-PASS

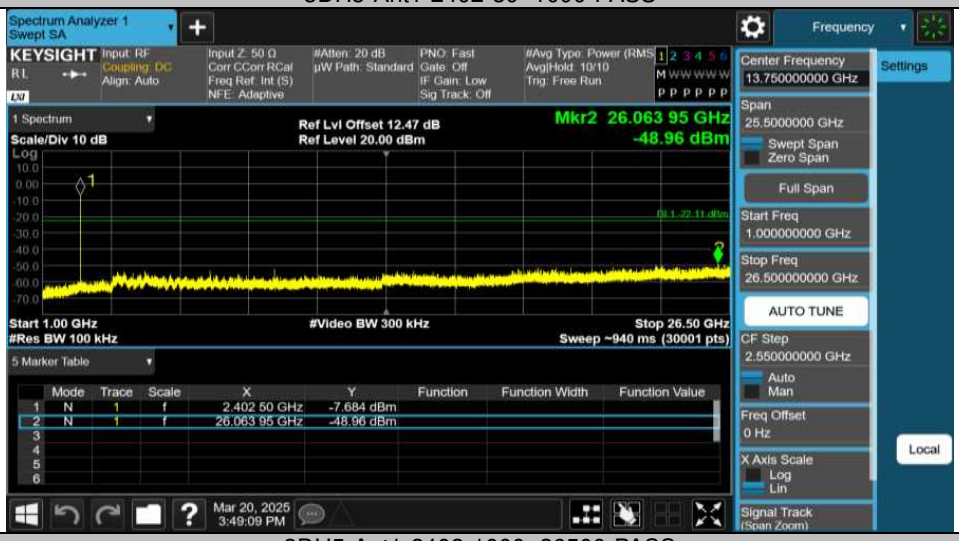


2DH5-Ant1-2480-1000~26500-PASS

3DH5-Ant1-2402-0~Reference-PASS



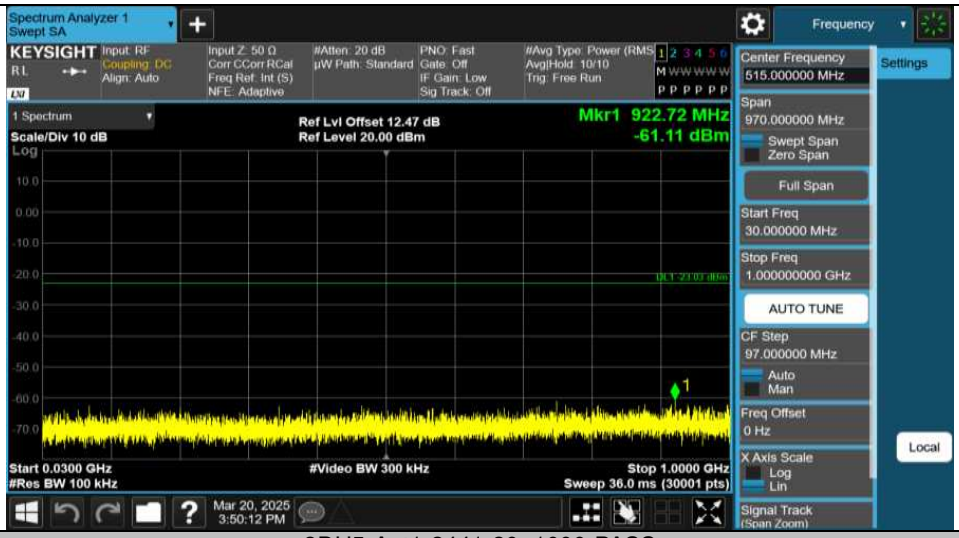
3DH5-Ant1-2402-30~1000-PASS



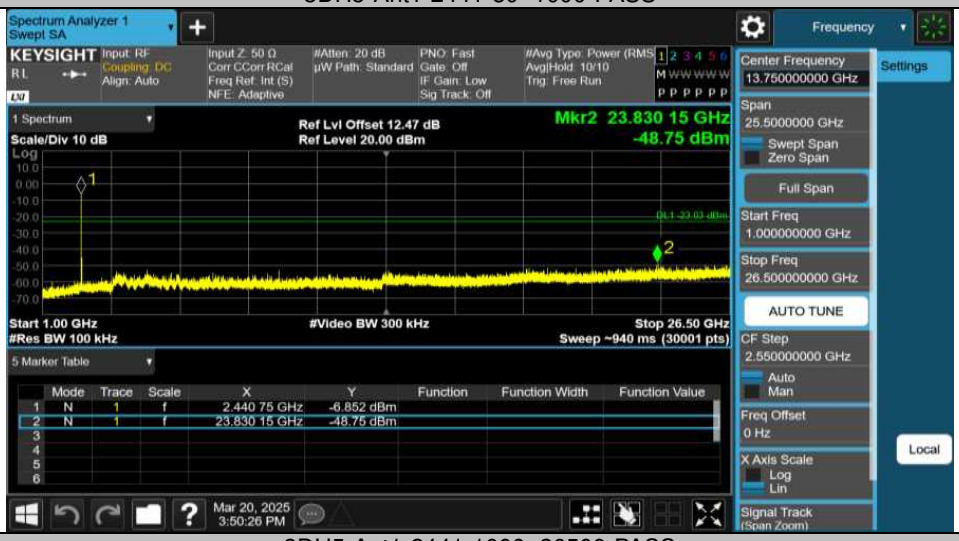
3DH5-Ant1-2402-1000~26500-PASS

3DH5-Ant1-2441-0~Reference-PASS

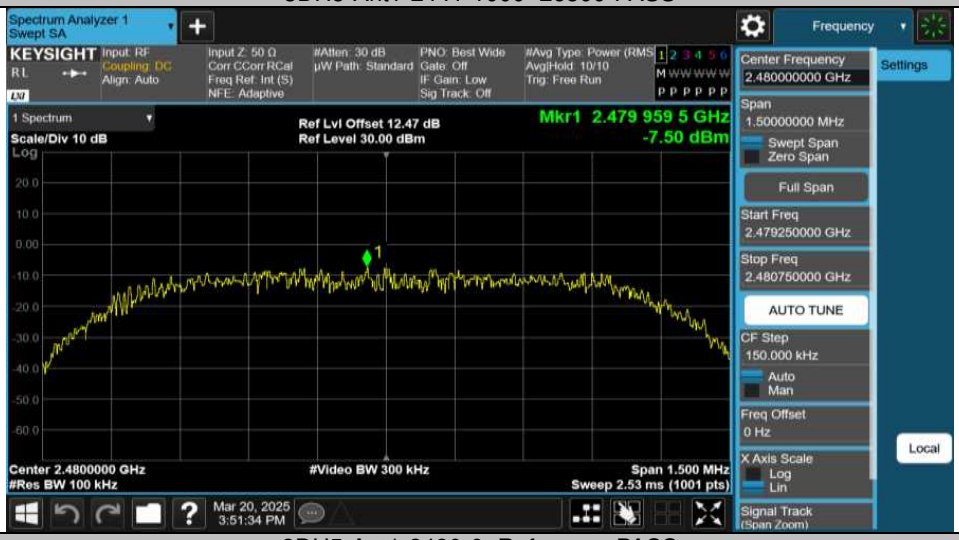
TEST REPORT



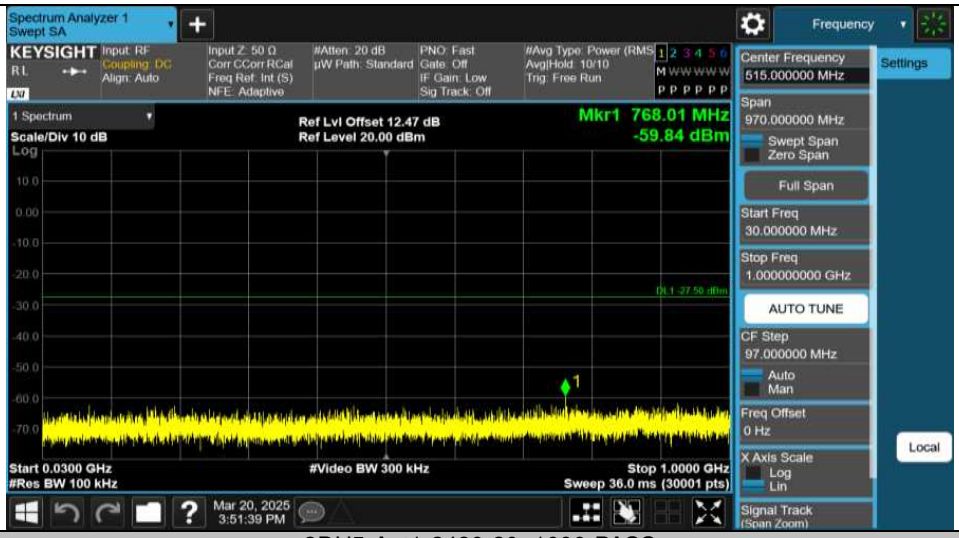
3DH5-Ant1-2441-30~1000-PASS



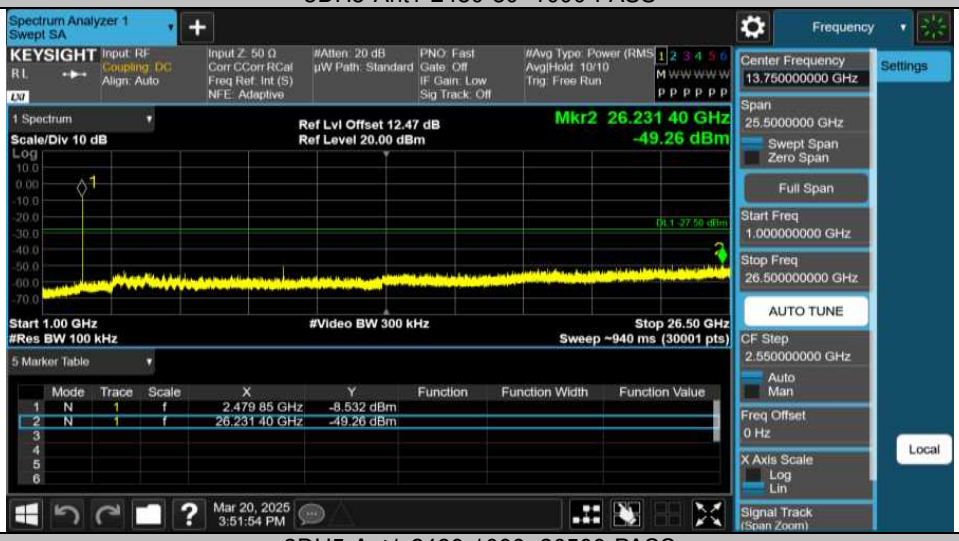
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS

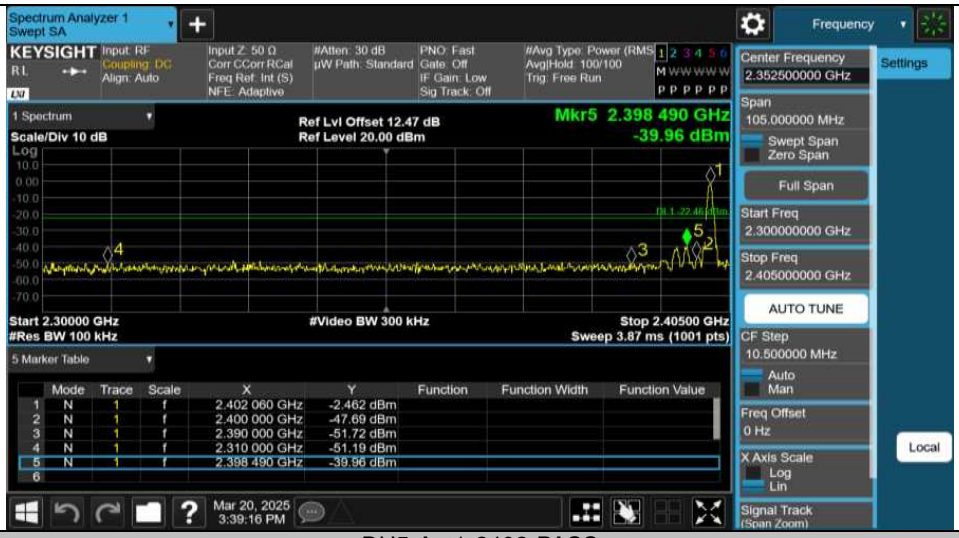


3DH5-Ant1-2480-1000~26500-PASS

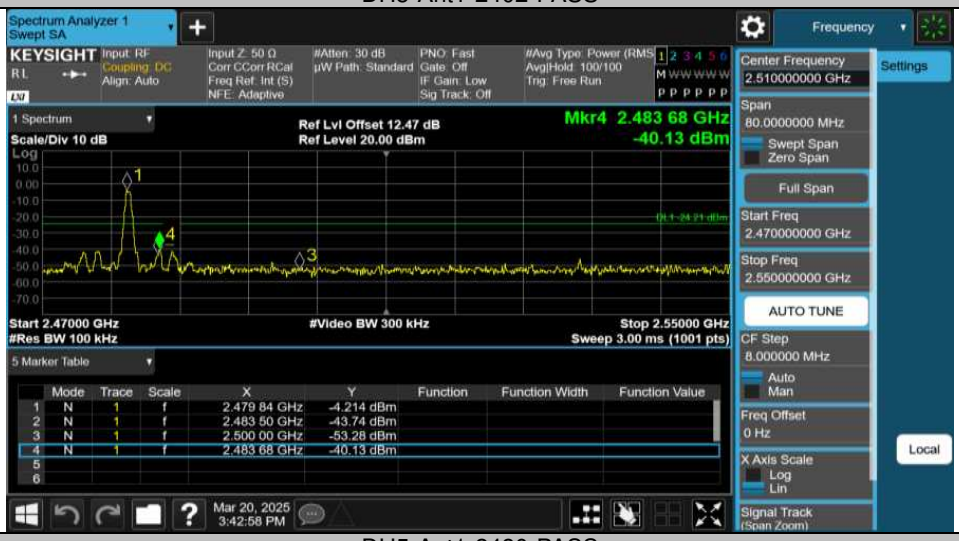
5. Frequency Band Edge

5.1 Test Result and Data

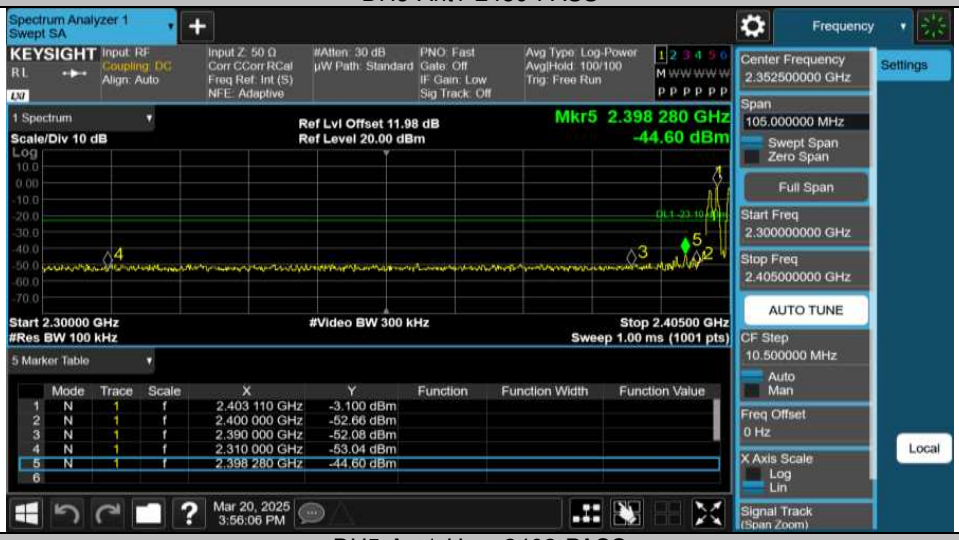
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.46	-39.96	≤-22.46	PASS
DH5	Ant1	High	2480	-4.21	-40.14	≤-24.21	PASS
DH5	Ant1	Low	Hop_2402	-3.10	-44.6	≤-23.1	PASS
DH5	Ant1	High	Hop_2480	-4.70	-44.8	≤-24.7	PASS
2DH5	Ant1	Low	2402	-3.79	-40.72	≤-23.79	PASS
2DH5	Ant1	High	2480	-7.43	-42.66	≤-27.43	PASS
2DH5	Ant1	Low	Hop_2402	-2.56	-44.36	≤-22.56	PASS
2DH5	Ant1	High	Hop_2480	-8.67	-44.83	≤-28.67	PASS
3DH5	Ant1	Low	2402	-1.93	-40.88	≤-21.93	PASS
3DH5	Ant1	High	2480	-5.34	-43.75	≤-25.34	PASS
3DH5	Ant1	Low	Hop_2402	-3.66	-44.72	≤-23.66	PASS
3DH5	Ant1	High	Hop_2480	-7.37	-48.59	≤-27.37	PASS



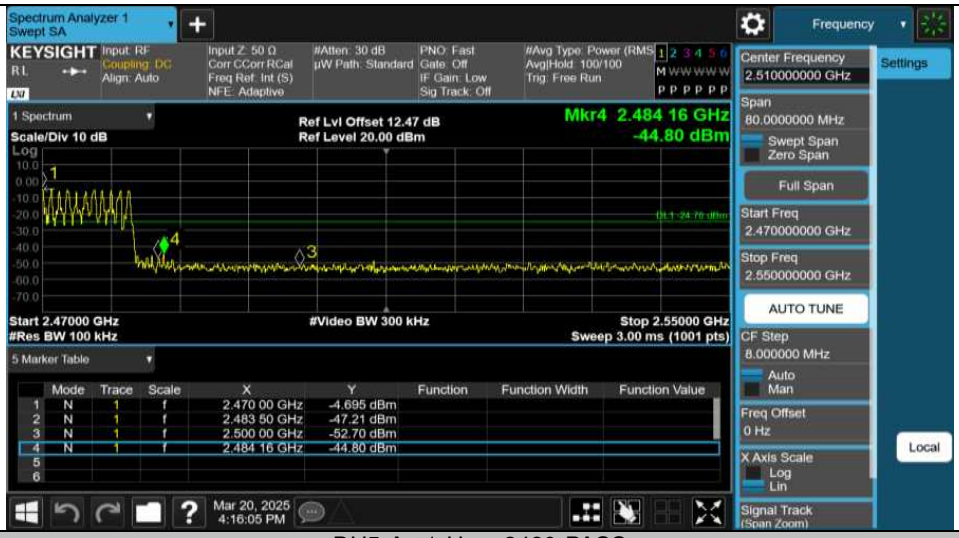
DH5-Ant1-2402-PASS



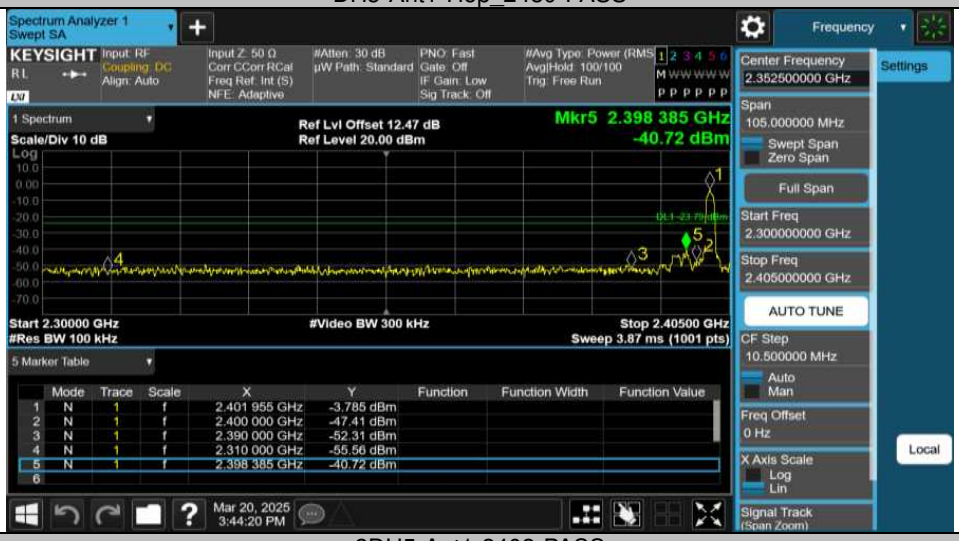
DH5-Ant1-2480-PASS



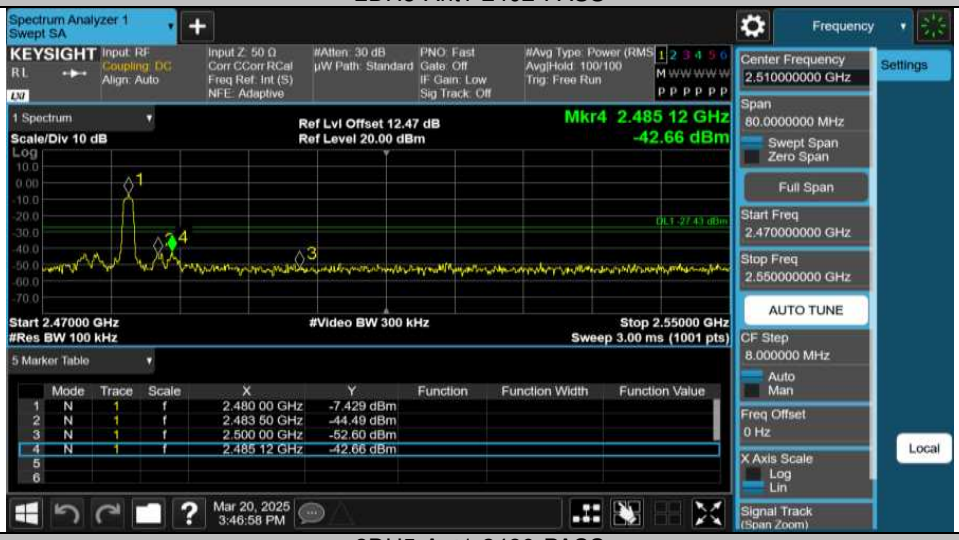
DH5-Ant1-Hop_2402-PASS



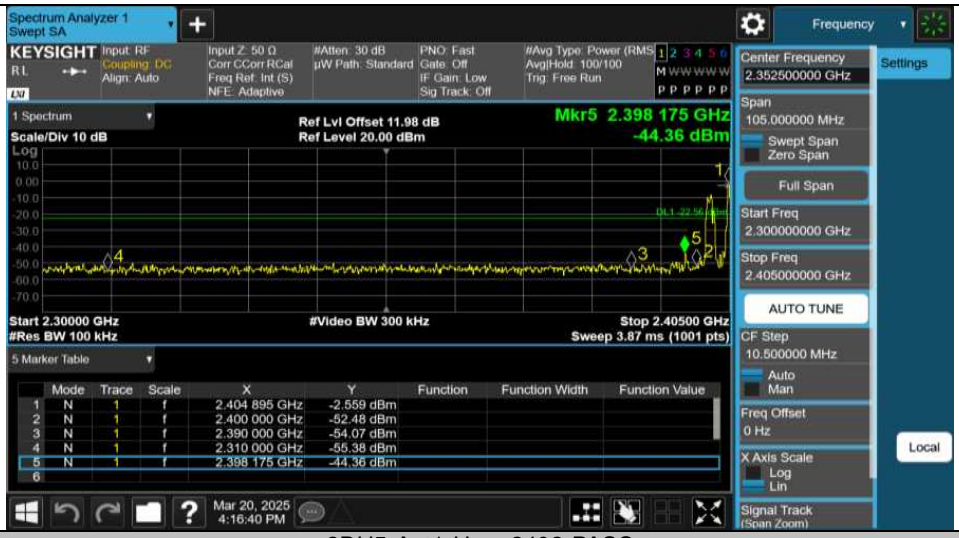
DH5-Ant1-Hop_2480-PASS



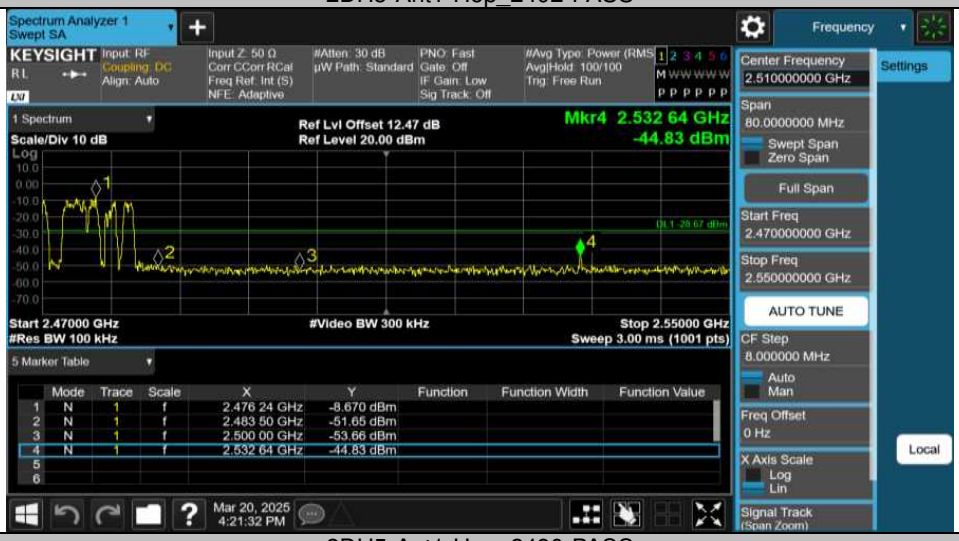
2DH5-Ant1-2402-PASS



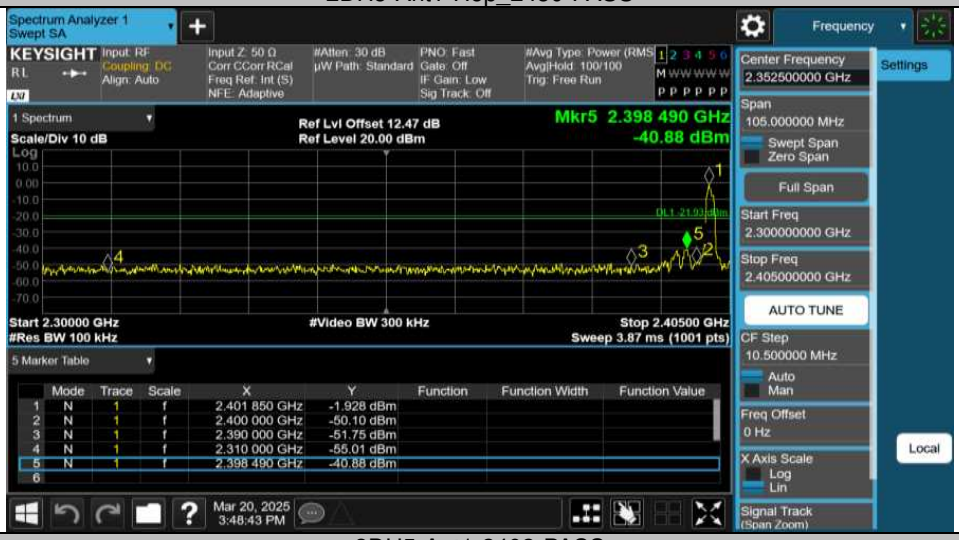
2DH5-Ant1-2480-PASS



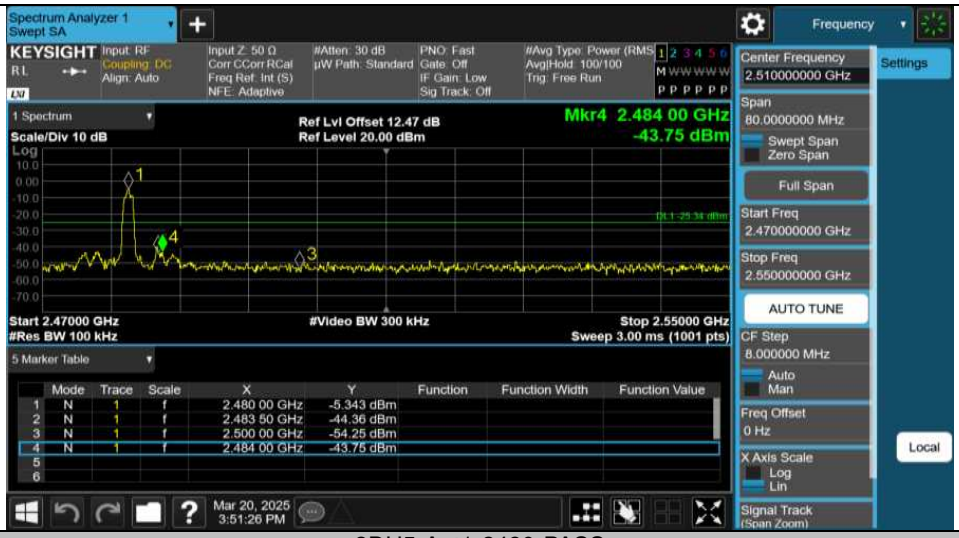
2DH5-Ant1-Hop_2402-PASS



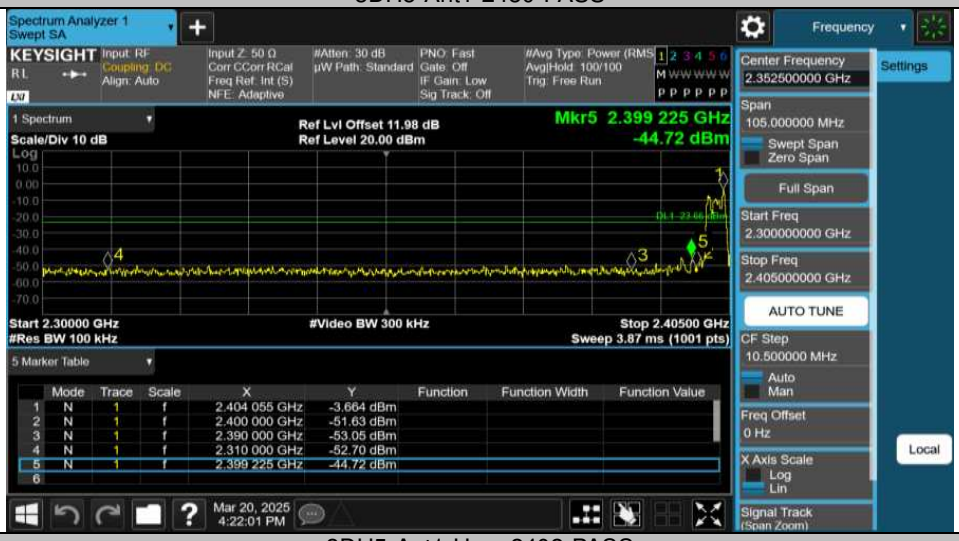
2DH5-Ant1-Hop_2480-PASS



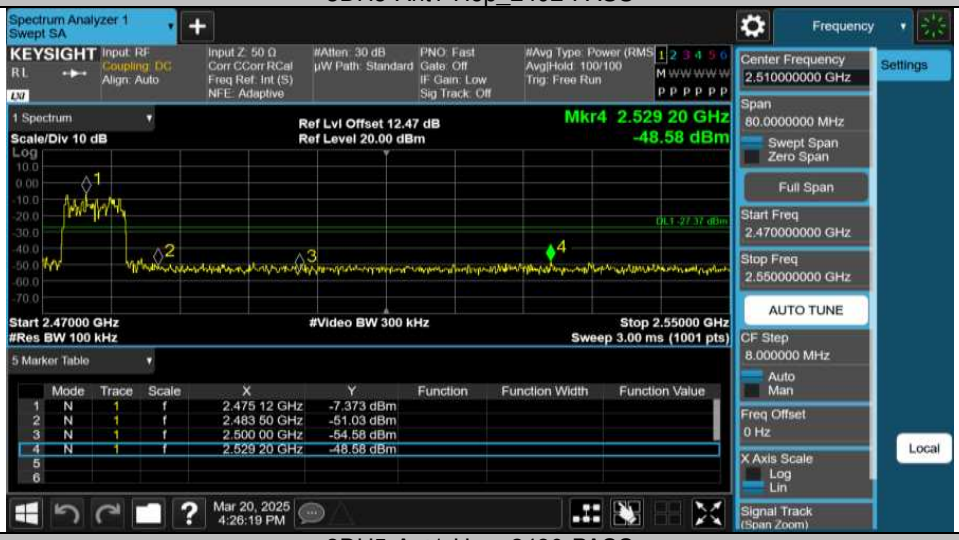
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

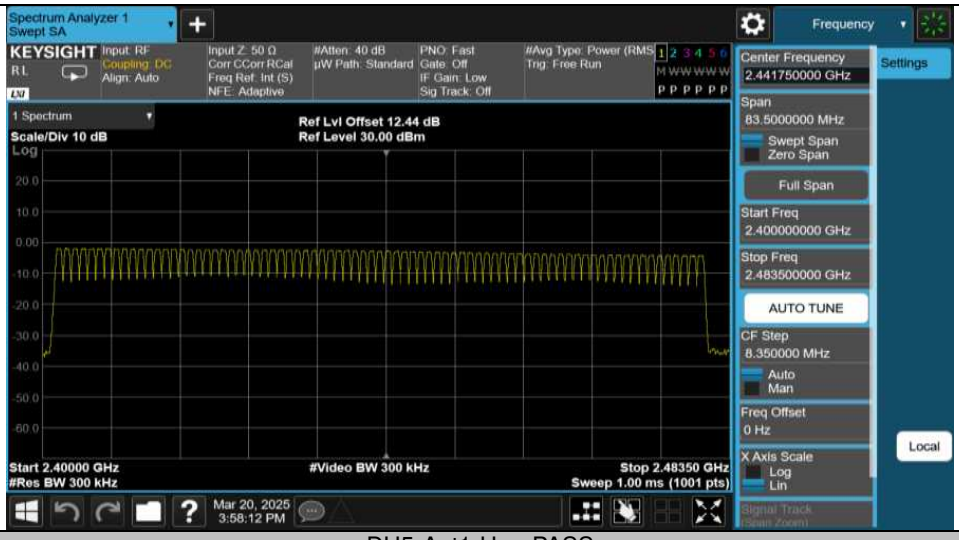


3DH5-Ant1-Hop_2480-PASS

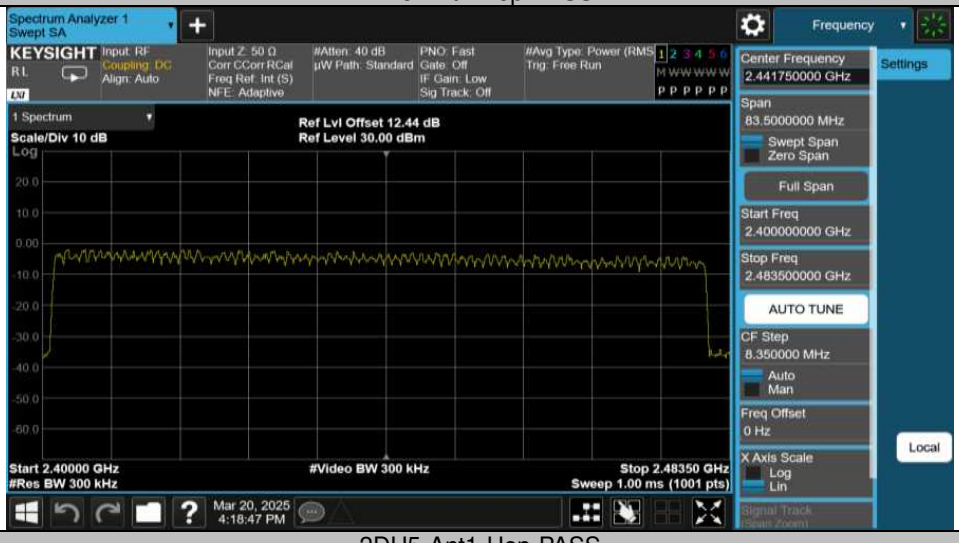
6. Hopping Channel Numbers

6.1 Test Result and Data

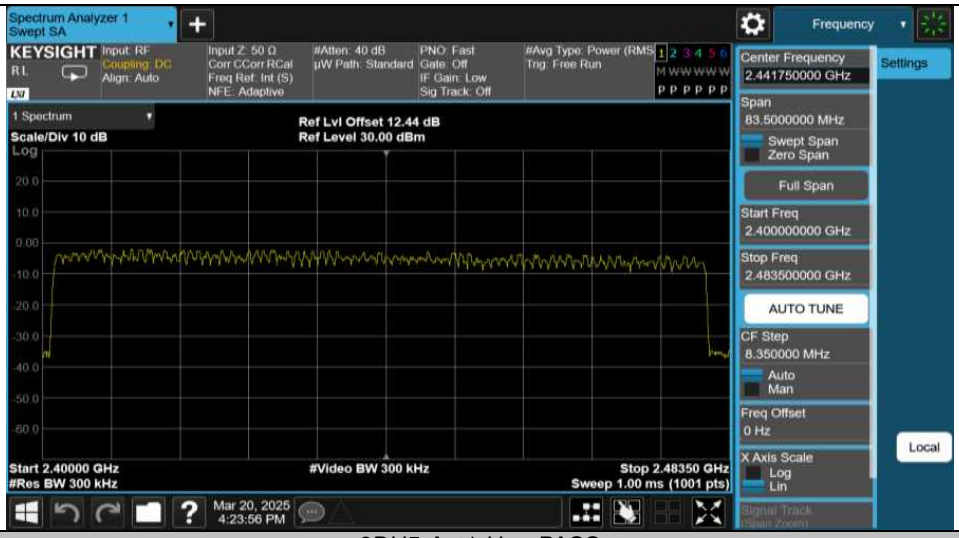
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



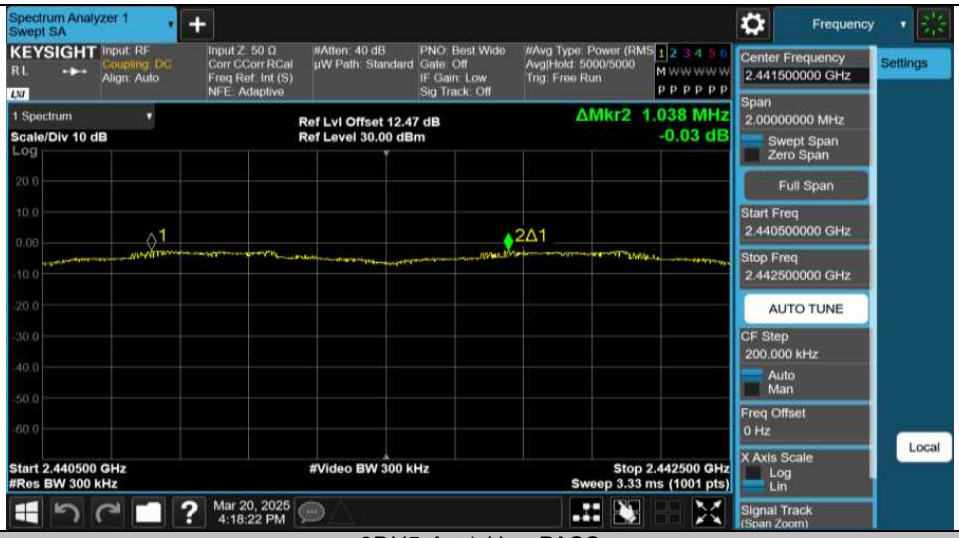
3DH5-Ant1-Hop-PASS

7.Carrier Frequency Separation

7.1 Test Result and Data

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥0.686	PASS
2DH5	Ant1	Hop	1.038	≥0.906	PASS
3DH5	Ant1	Hop	1.008	≥0.854	PASS

DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

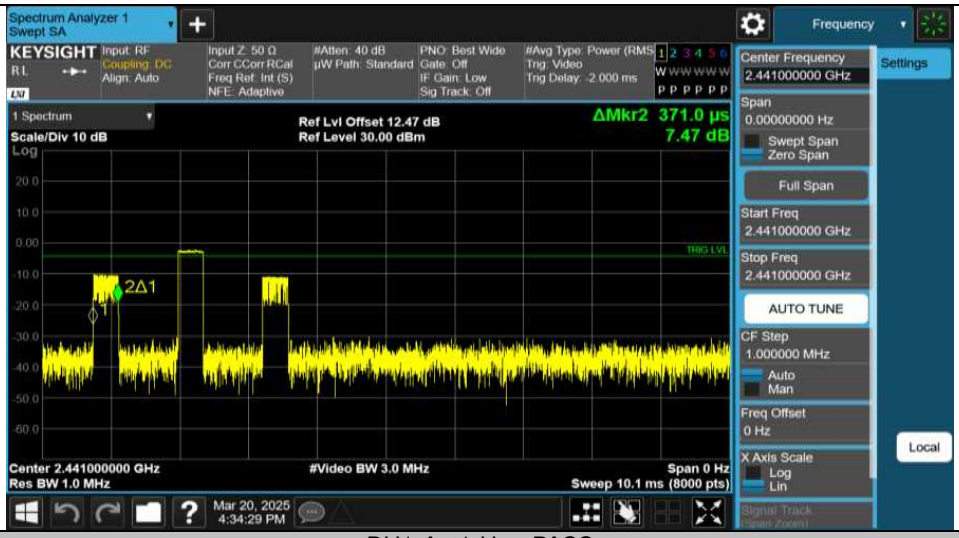
3DH5-Ant1-Hop-PASS

8.Dwell Time

8.1 Test Result and Data

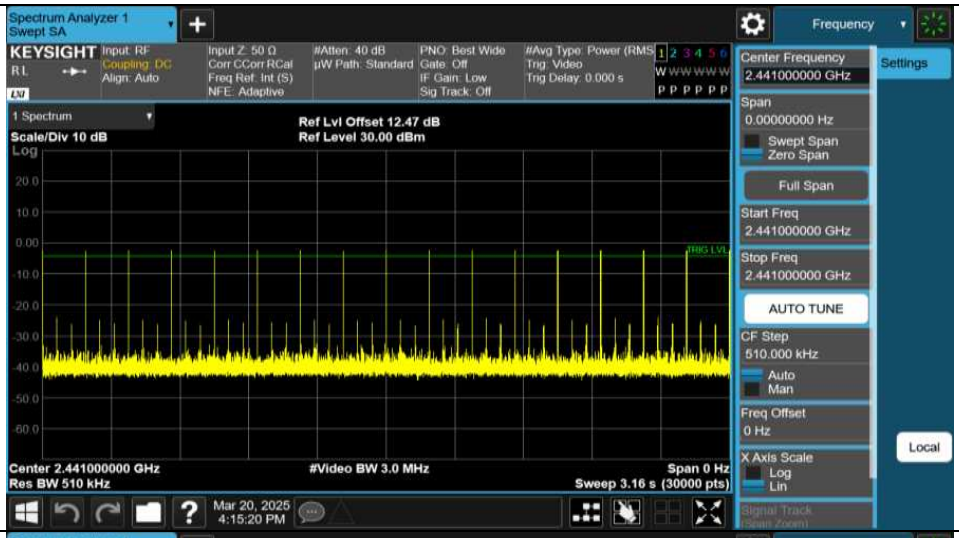
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.371	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.619	170	0.275	≤0.4	PASS
DH5	Ant1	Hop	2.866	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.377	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.631	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.377	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.629	170	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS

TEST REPORT

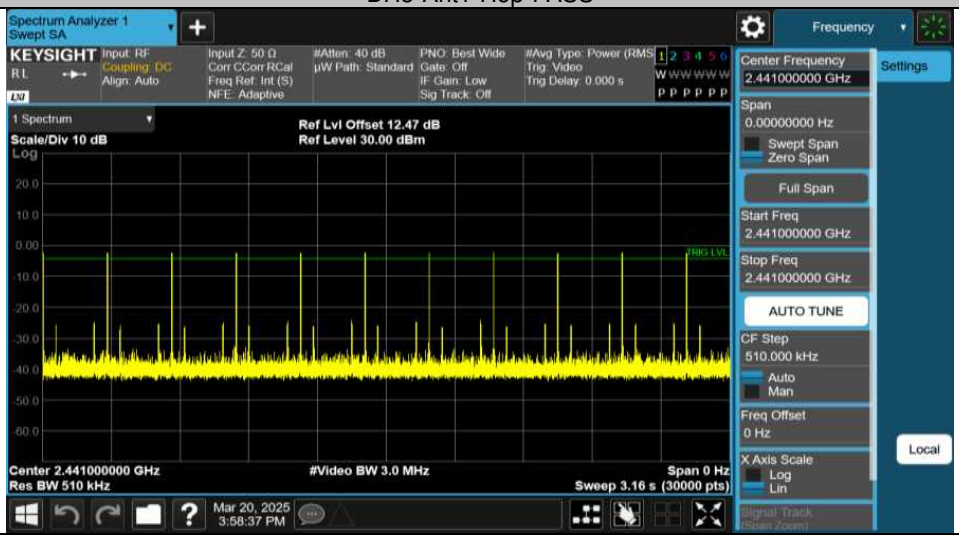


DH1-Ant1-Hop-PASS

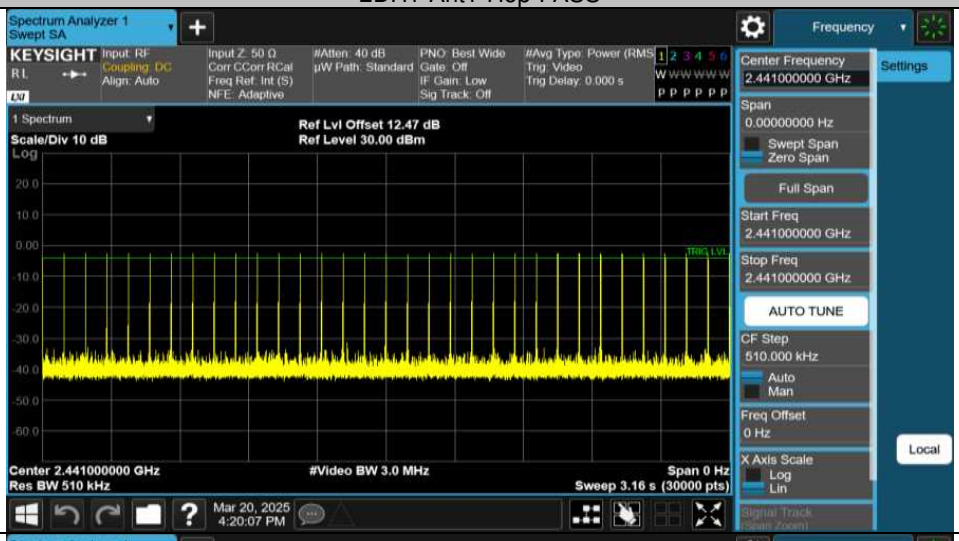
DH3-Ant1-Hop-PASS



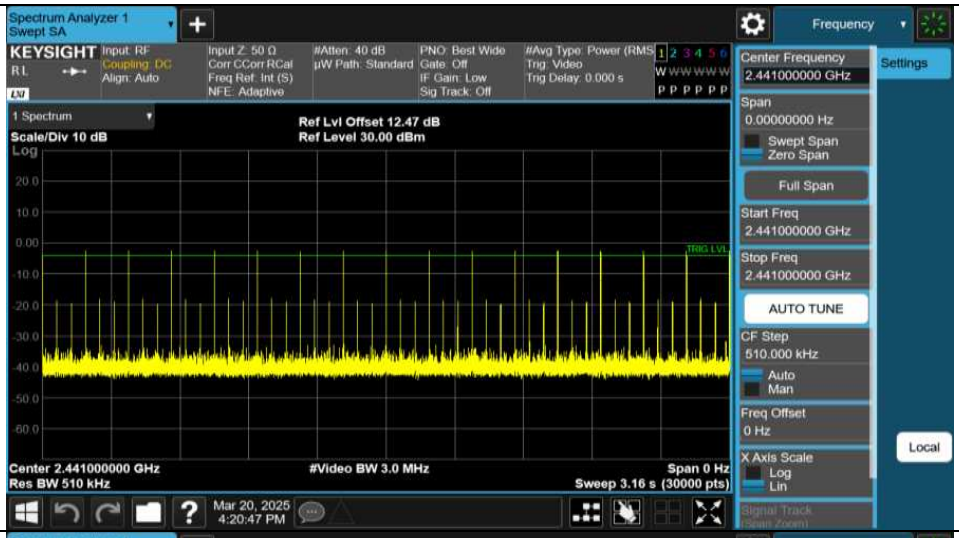
DH5-Ant1-Hop-PASS



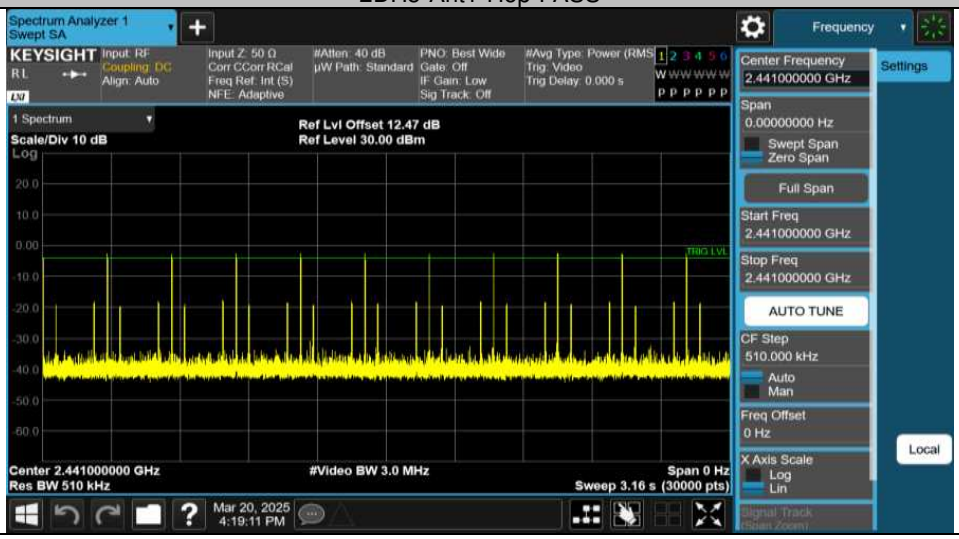
2DH1-Ant1-Hop-PASS



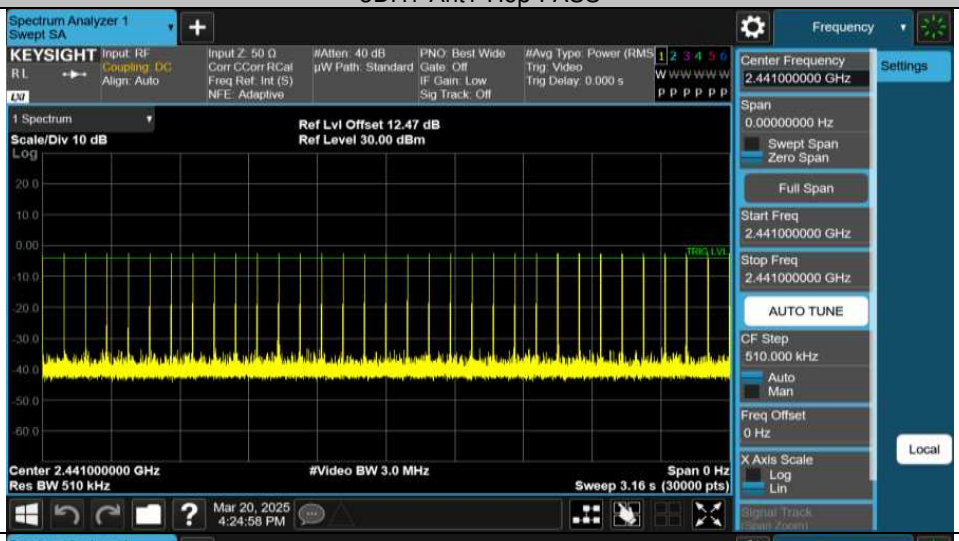
2DH3-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

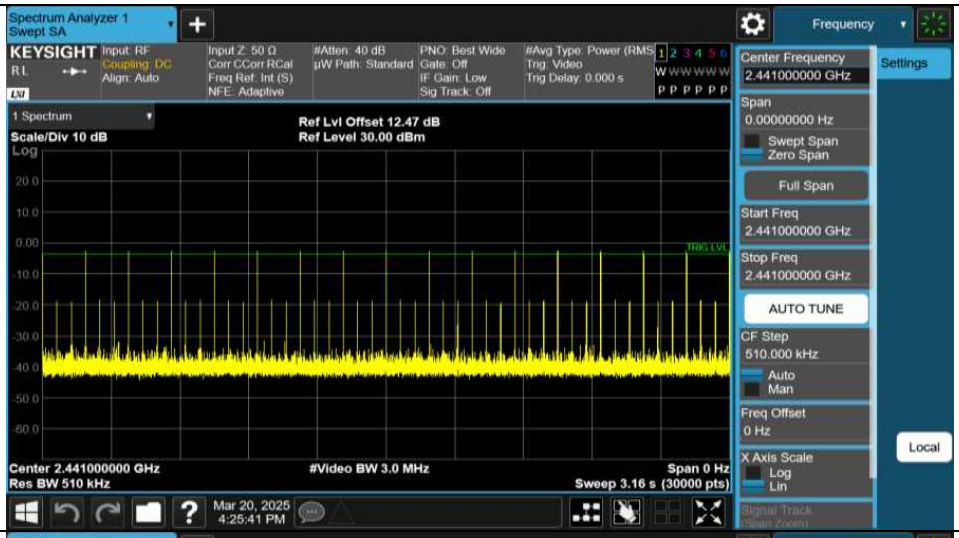


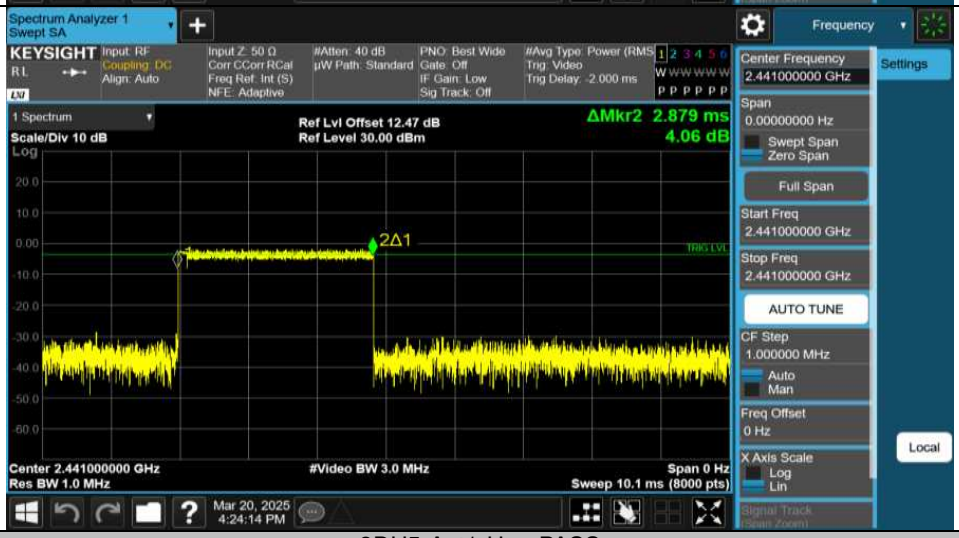
3DH1-Ant1-Hop-PASS



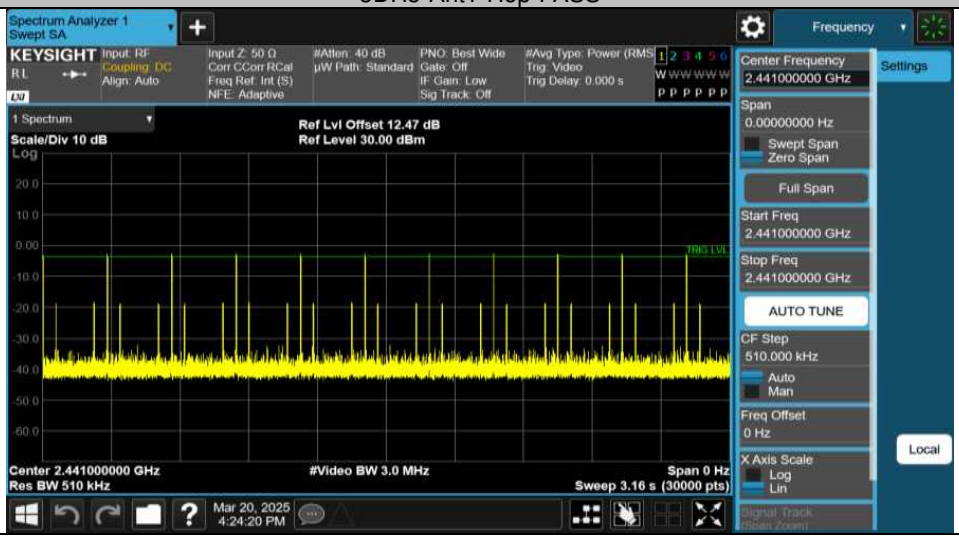
3DH3-Ant1-Hop-PASS

TEST REPORT





3DH5-Ant1-Hop-PASS



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