TEST REPORT

Report No.: TWN2506340-01E

Applicant: YAU WAI TRADING

Product: EVPAD Player

Model No.: EVPAD-12P, EVPAD-12S

Trademark: EVPAD

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: June 19, 2024

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Special Statement:

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 **General Details**

1.1 Test Lab Details

Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone:	(755) 83448688
Fax:	(755) 83442996

1.2 Applicant Details

Applicant:	YAU WAI TRADING
Address:	WORKSHOP NO. 14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO. 32 TAI YAU STREET KOWLOON, HONG KONG, China

1.3 Description of EUT

Product:	EVPAD Player
Manufacturer:	YAU WAI TRADING
Address:	WORKSHOP NO. 14, 4TH FLOOR LAURELS INDUSTRIAL CENTRE NO. 32 TAI YAU STREET KOWLOON, HONG KONG, China
Trademark:	EVPAD
Model Number:	EVPAD-12P
Additional Model Number:	EVPAD-12S
Hardware Version:	V12
Software Version:	V12
Serial No.:	00226e3a012a
Type of Modulation	GFSK, Π/4DQPSK, 8DPSK for Bluetooth
Frequency range	2402-2480MHz for Bluetooth
Channel Spacing	1MHz for Bluetooth
Frequency Selection	By software
Channel Number	79 channels for Bluetooth
Antenna:	FPC Antenna. The gain of the antennas is 0.31dBi (Get from the antenna specification provided the manufacturer)
Rating:	Input: DC5.0V, 2A
Power Supply:	Model: MDL010-0502000ZU Input: 100-240V~, 50/60Hz, 0.45A; Output: DC5V, 2A,10W

1.4 Submitted Sample: 2 Sample

1.5 Test Duration

2025-06-05 to 2025-06-19

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by _____

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	Pass	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	Pass	Complies
Carrier Frequency Separation	15.247(a)(1)	Pass	Complies
20dB Channel Bandwidth	15.247 (a)(1)	Pass	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	Pass	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	Pass	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	Pass	Complies
Conducted Emissions	15.207(a)，15.107	Pass	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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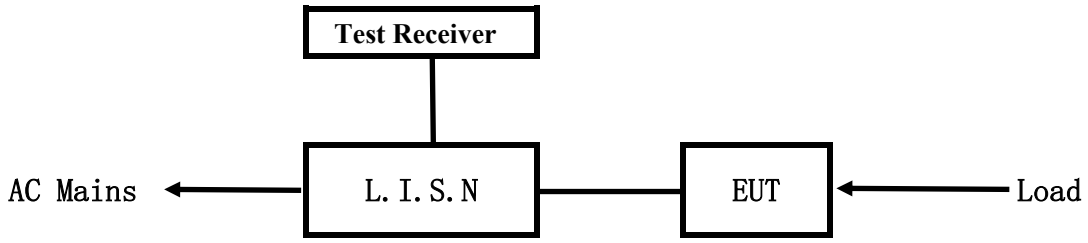
5. Power Line Conducted Emission Test

5.1 Schematics of the test



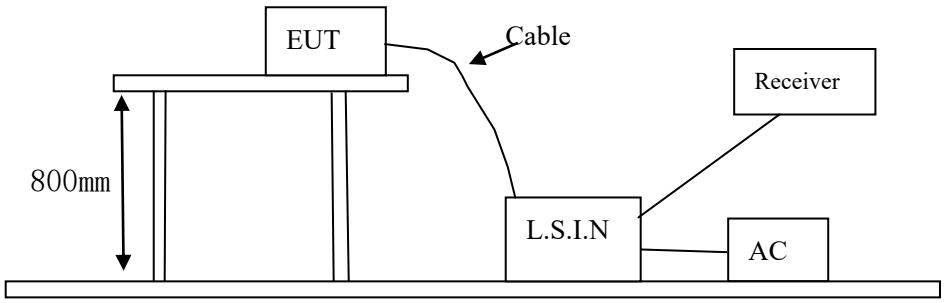
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
EVPAD Player	YAU WAI TRADING	EVPAD-12P, EVPAD-12S	2A4G812P12S

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ～ 0.50	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	56.0	46.0
5.00 ～ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

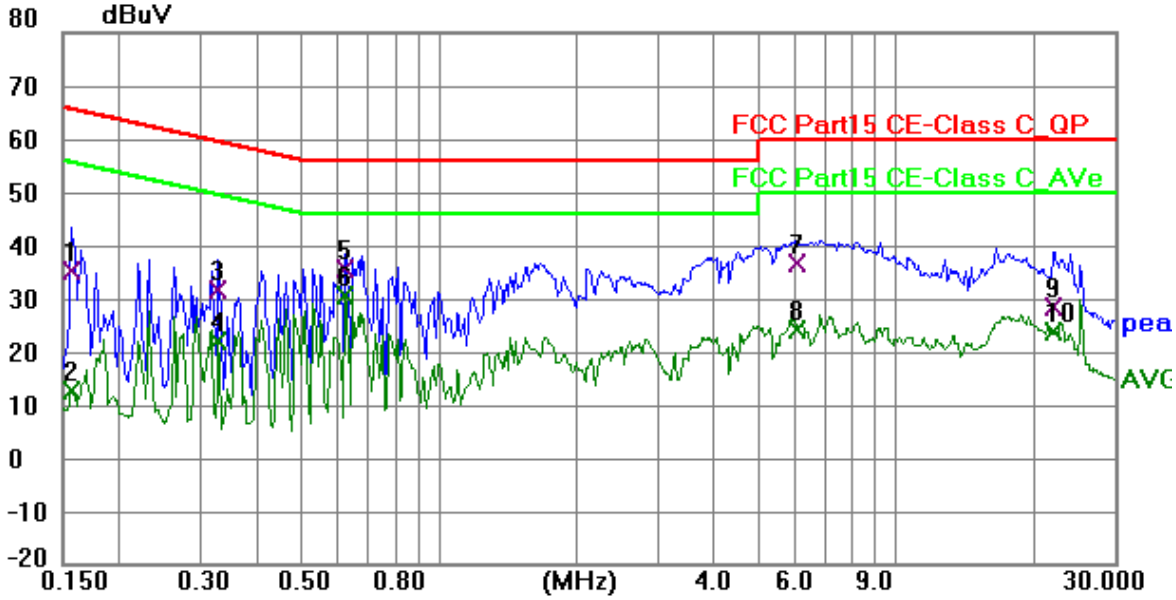
EUT Operating Environment

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1578	24.86	10.34	35.20	65.58	-30.38	QP	P
2	0.1578	2.27	10.34	12.61	55.58	-42.97	AVG	P
3	0.3294	21.38	10.35	31.73	59.47	-27.74	QP	P
4	0.3294	11.74	10.35	22.09	49.47	-27.38	AVG	P
5	0.6219	25.06	10.44	35.50	56.00	-20.50	QP	P
6	0.6219	19.95	10.44	30.39	46.00	-15.61	AVG	P
7	6.0849	23.96	12.59	36.55	60.00	-23.45	QP	P
8	6.0849	11.43	12.59	24.02	50.00	-25.98	AVG	P
9	22.1763	12.46	15.96	28.42	60.00	-31.58	QP	P
10	22.1763	7.81	15.96	23.77	50.00	-26.23	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

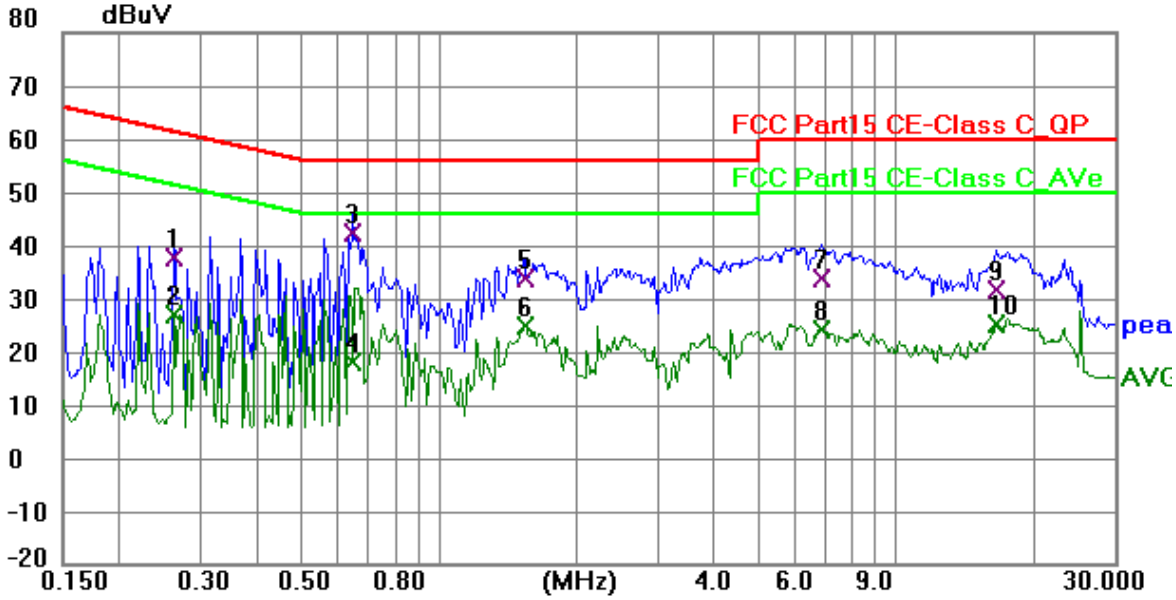
EUT Operating Environment

Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2631	27.20	10.34	37.54	61.33	-23.79	QP	P
2	0.2631	16.47	10.34	26.81	51.33	-24.52	AVG	P
3	0.6492	31.95	10.44	42.39	56.00	-13.61	QP	P
4	0.6492	7.72	10.44	18.16	46.00	-27.84	AVG	P
5	1.5423	22.78	10.94	33.72	56.00	-22.28	QP	P
6	1.5423	13.80	10.94	24.74	46.00	-21.26	AVG	P
7	6.8844	20.83	12.81	33.64	60.00	-26.36	QP	P
8	6.8844	11.22	12.81	24.03	50.00	-25.97	AVG	P
9	16.5525	15.96	15.54	31.50	60.00	-28.50	QP	P
10	16.5525	9.61	15.54	25.15	50.00	-24.85	AVG	P

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

(3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.

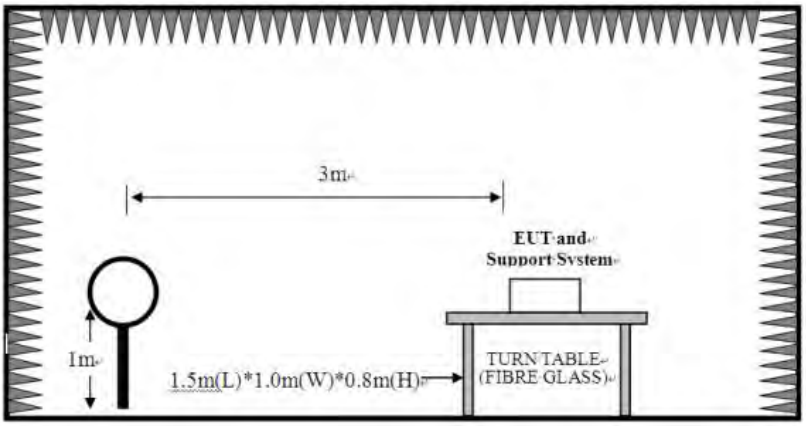
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



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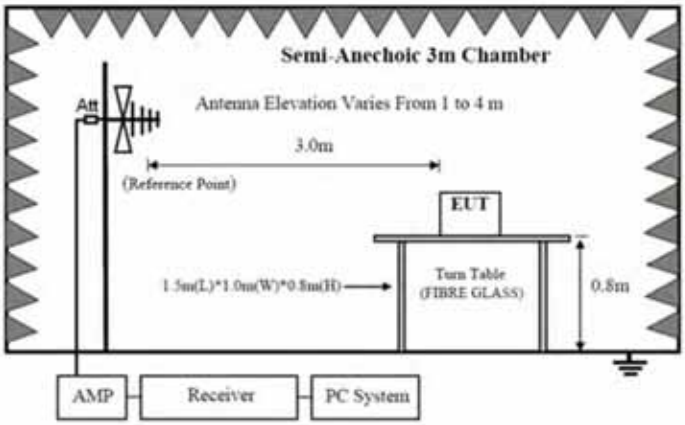
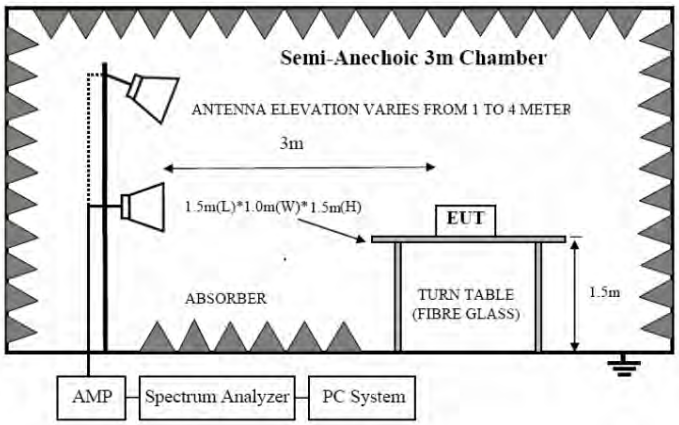
For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. GFSK was the worst case because it has highest output power

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

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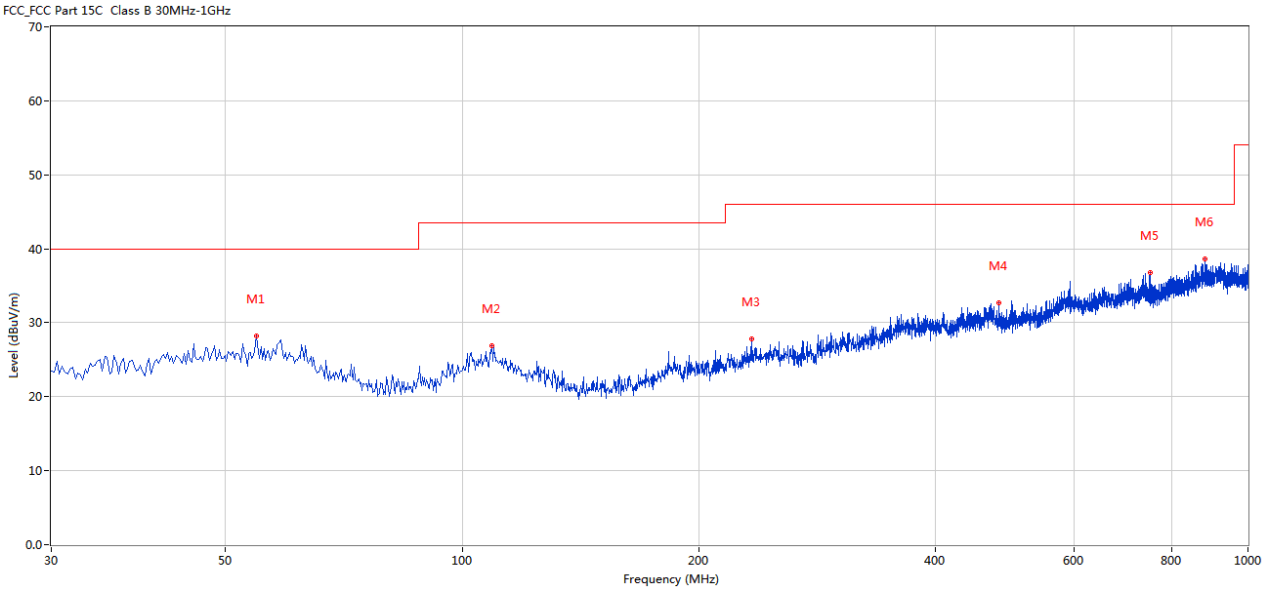
Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.729	28.21	-5.15	40.0	11.79	Peak	175.00	100	Horizontal	Pass
2	109.035	26.85	-5.98	43.5	16.65	Peak	4.00	100	Horizontal	Pass
3	233.407	27.77	-5.38	46.0	18.23	Peak	169.00	100	Horizontal	Pass
4	482.149	32.75	-0.98	46.0	13.25	Peak	308.00	100	Horizontal	Pass
5	750.045	36.84	1.98	46.0	9.16	Peak	308.00	100	Horizontal	Pass
6	880.962	38.69	5.05	46.0	7.31	Peak	43.00	100	Horizontal	Pass

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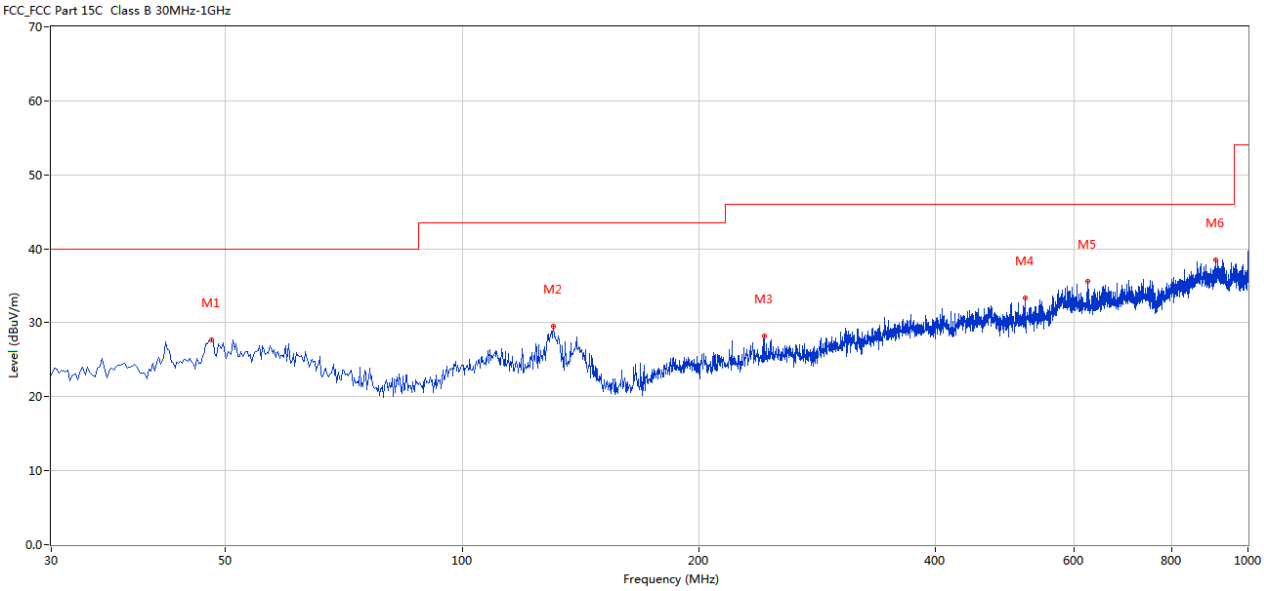
Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.941	27.66	-5.39	40.0	12.34	Peak	170.00	100	Vertical	Pass
2	130.612	29.55	-8.59	43.5	13.95	Peak	3.00	100	Vertical	Pass
3	242.134	28.19	-5.54	46.0	17.81	Peak	260.00	100	Vertical	Pass
4	520.940	33.35	-0.65	46.0	12.65	Peak	138.00	100	Vertical	Pass
5	626.158	35.64	1.37	46.0	10.36	Peak	198.00	100	Vertical	Pass
6	909.813	38.48	5.19	46.0	7.52	Peak	44.00	100	Vertical	Pass

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Operation Mode: Transmitting under Low Channel (2402MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4804	--	H	74(Peak)/ 54(AV)
4804	--	V	74(Peak)/ 54(AV)
7206	--	H/V	74(Peak)/ 54(AV)
9608	--	H/V	74(Peak)/ 54(AV)
12010	--	H/V	74(Peak)/ 54(AV)
14412	--	H/V	74(Peak)/ 54(AV)
16814	--	H/V	74(Peak)/ 54(AV)
19216	--	H/V	74(Peak)/ 54(AV)
21618	--	H/V	74(Peak)/ 54(AV)
24020	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2441MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4882	--	H	74(Peak)/ 54(AV)
4882	--	V	74(Peak)/ 54(AV)
7323	--	H/V	74(Peak)/ 54(AV)
9764	--	H/V	74(Peak)/ 54(AV)
12205	--	H/V	74(Peak)/ 54(AV)
14646	--	H/V	74(Peak)/ 54(AV)
17087	--	H/V	74(Peak)/ 54(AV)
19528	--	H/V	74(Peak)/ 54(AV)
21969	--	H/V	74(Peak)/ 54(AV)
24410	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4960	--	H	74(Peak)/ 54(AV)
4960	--	V	74(Peak)/ 54(AV)
7440	--	H/V	74(Peak)/ 54(AV)
9920	--	H/V	74(Peak)/ 54(AV)
12400	--	H/V	74(Peak)/ 54(AV)
14880	--	H/V	74(Peak)/ 54(AV)
17360	--	H/V	74(Peak)/ 54(AV)
19840	--	H/V	74(Peak)/ 54(AV)
22320	--	H/V	74(Peak)/ 54(AV)
24800	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span =2MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation:

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.958	0	Pass
		2441		0.954	0	Pass
		2480		0.919	0	Pass
	2-DH5	2402		1.284	0	Pass
		2441		1.264	0	Pass
		2480		1.288	0	Pass
	3-DH5	2402		1.254	0	Pass
		2441		1.243	0	Pass
		2480		1.251	0	Pass

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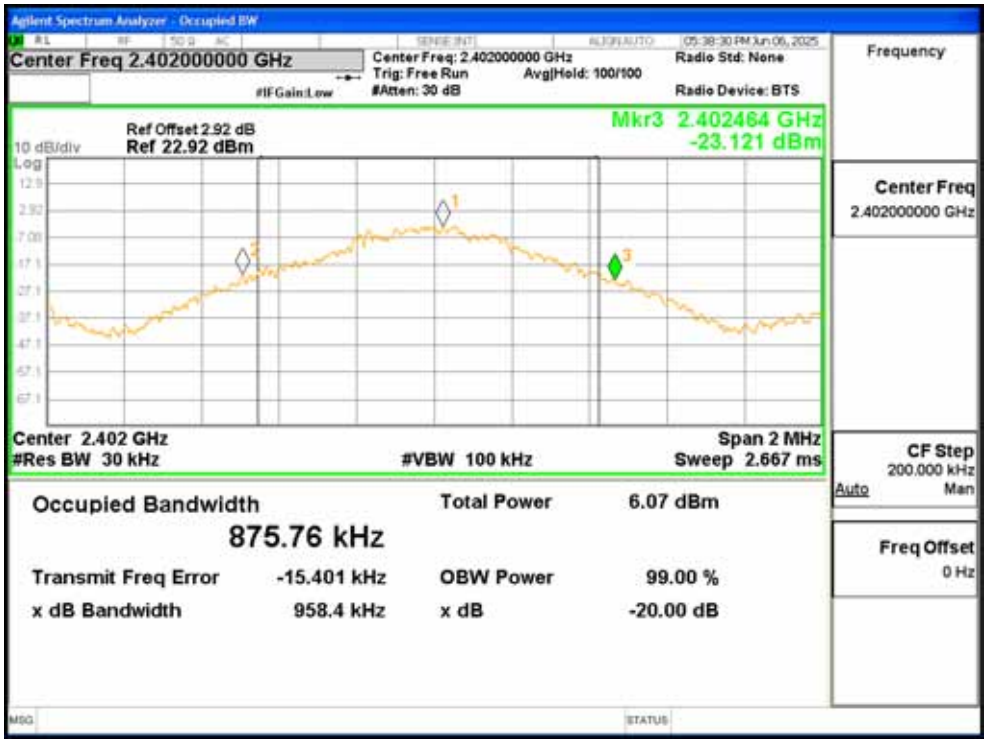
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

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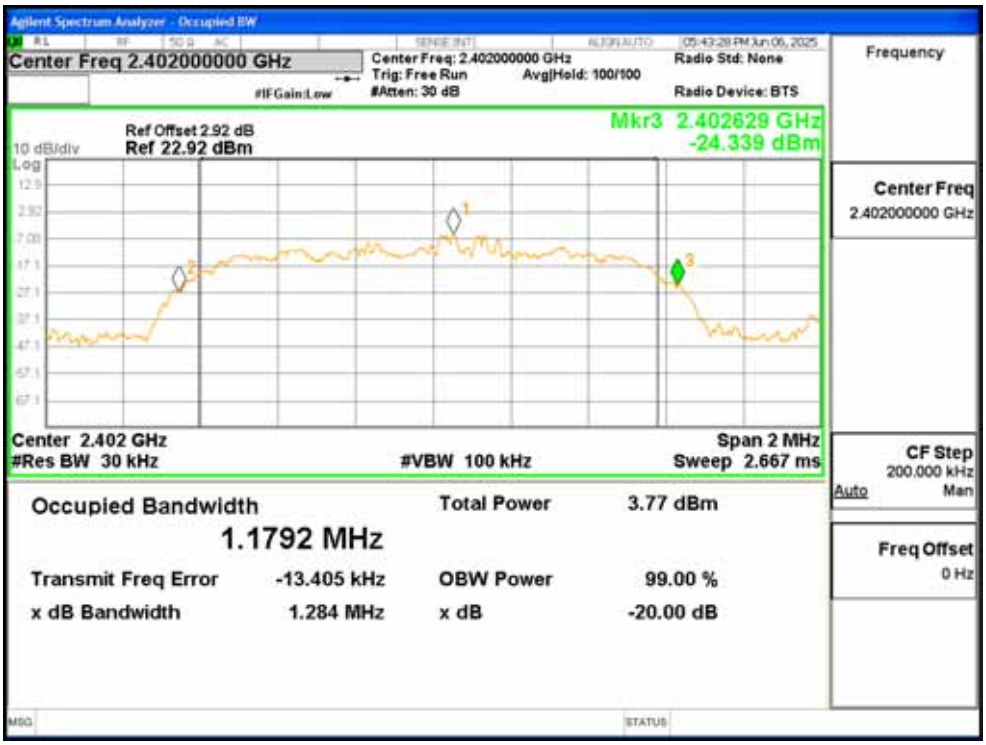
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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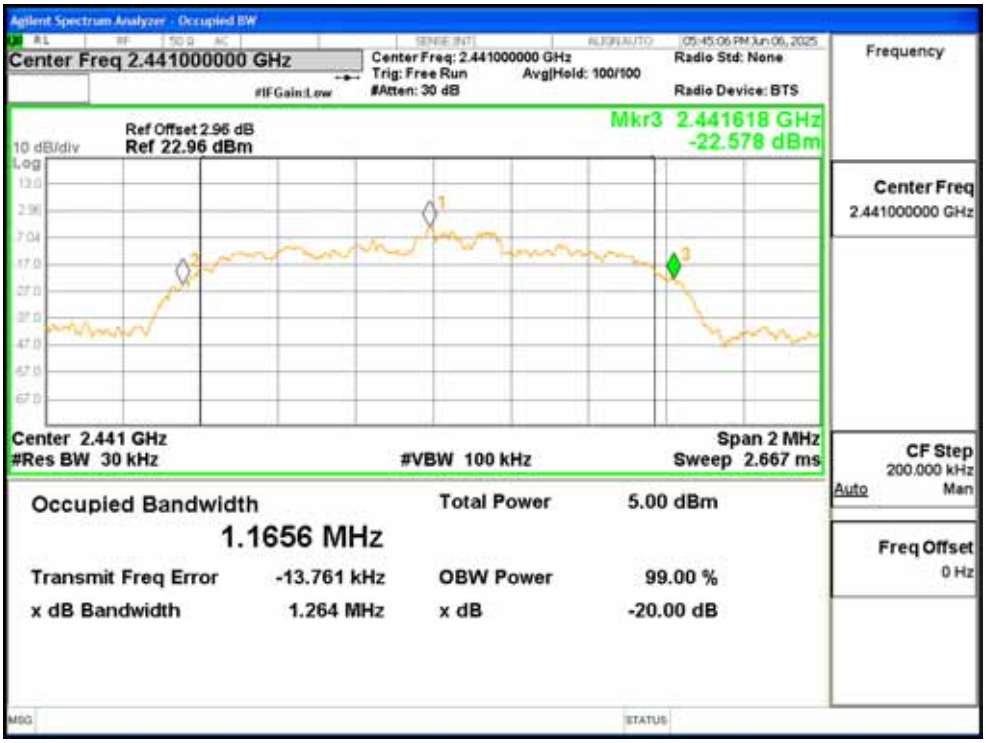
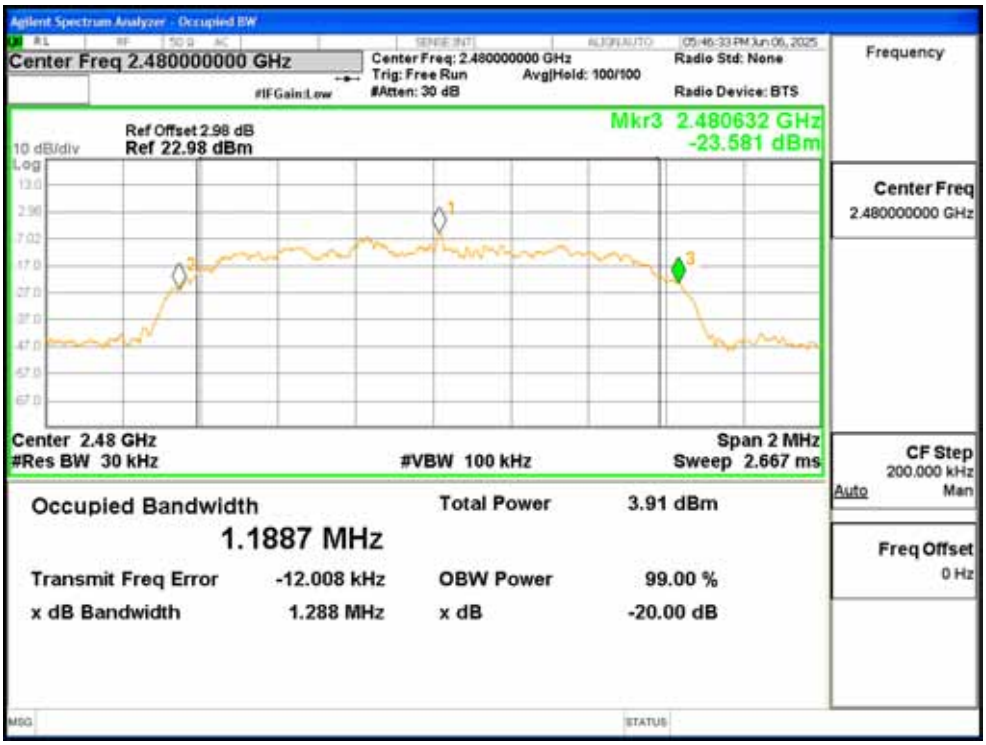
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

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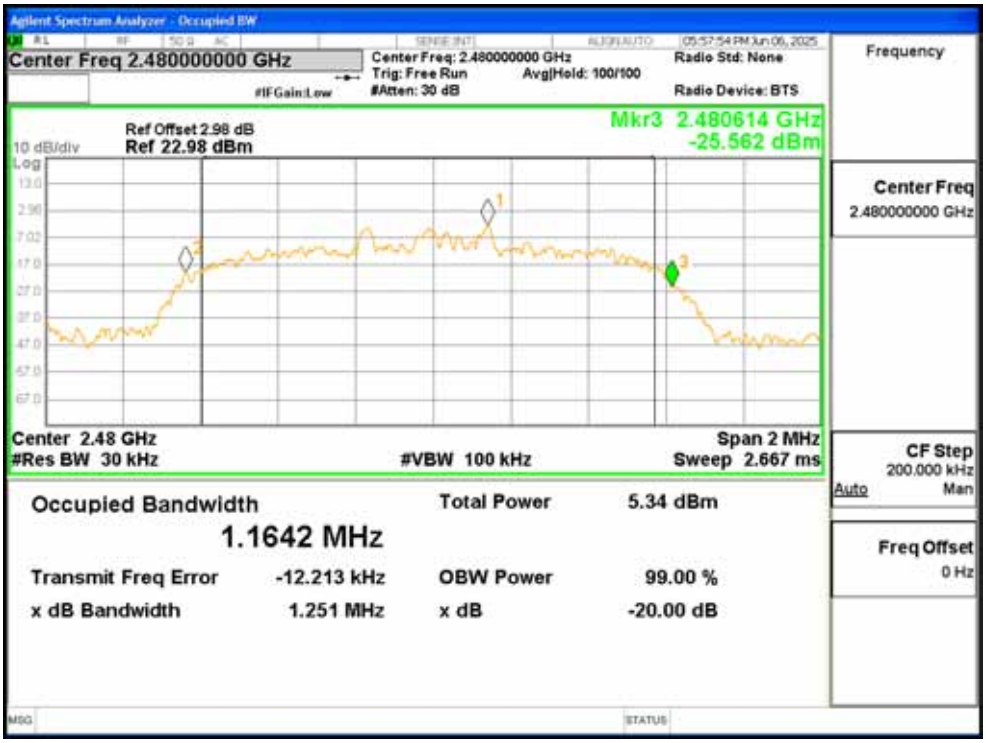
-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), 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. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm or 21dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW =6MHz, RBW=2MHz; Sweep = 1.333ms; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

Note: The Peak power was measured

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8.4Test Results

Type of Modulation:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.575	0	-0.575	21	Pass
		2441		-0.235	0	-0.235	21	Pass
		2480		-0.020	0	-0.020	21	Pass
	2-DH5	2402		-0.695	0	-0.695	21	Pass
		2441		-0.239	0	-0.239	21	Pass
		2480		-0.049	0	-0.049	21	Pass
	3-DH5	2402		-0.609	0	-0.609	21	Pass
		2441		-0.216	0	-0.216	21	Pass
		2480		0.094	0	0.094	21	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

3. The **Peak** power was measured

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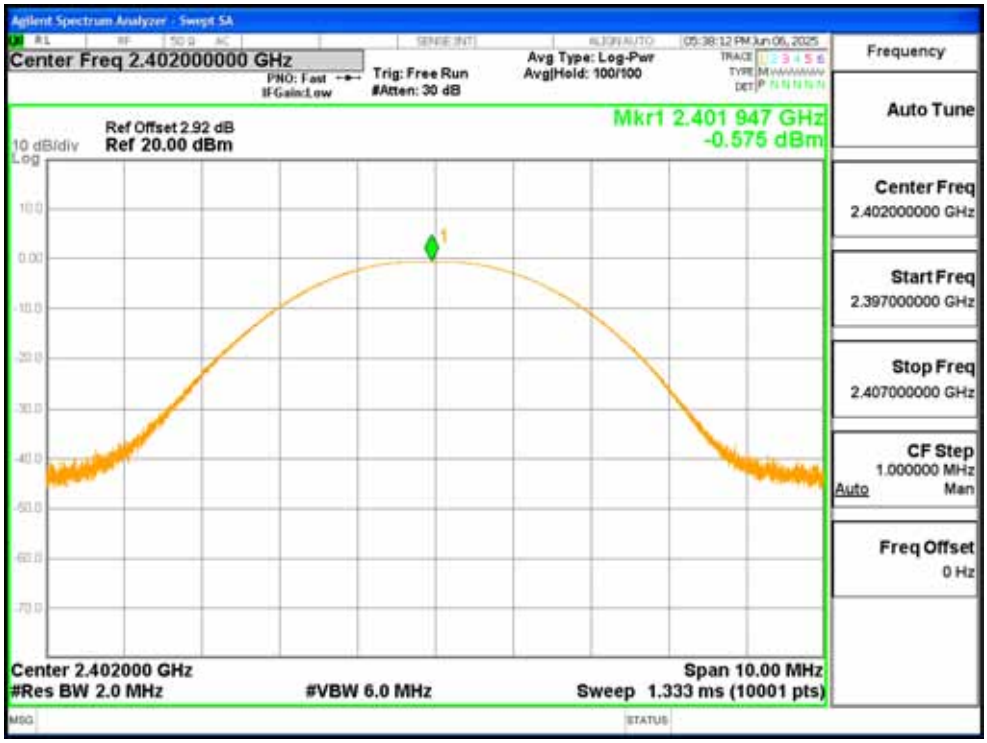
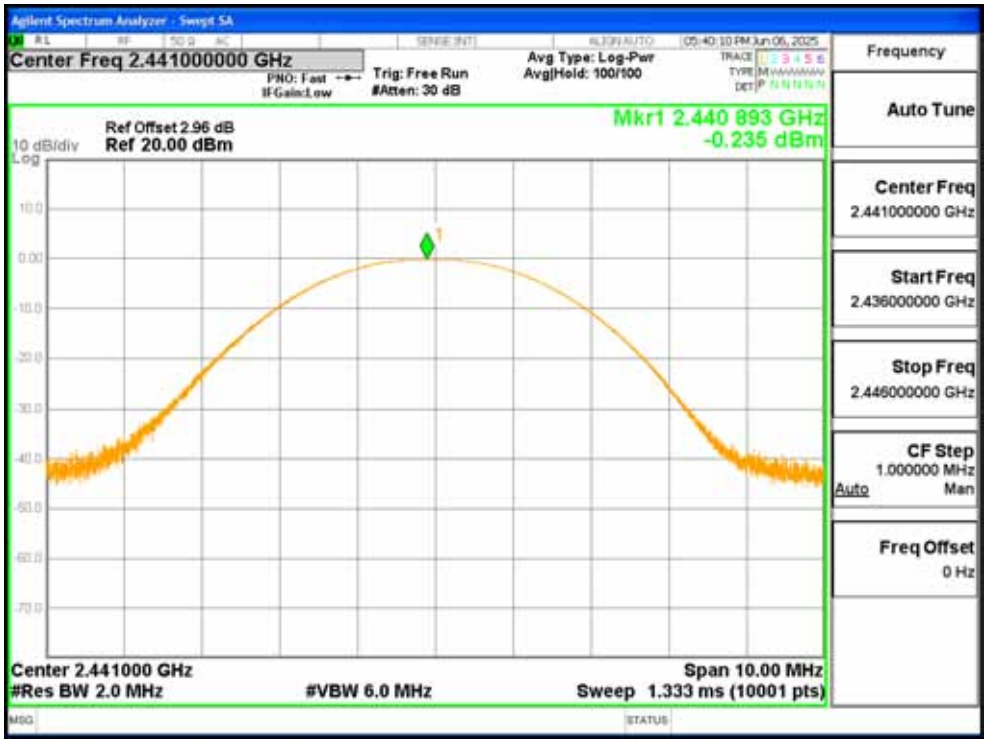
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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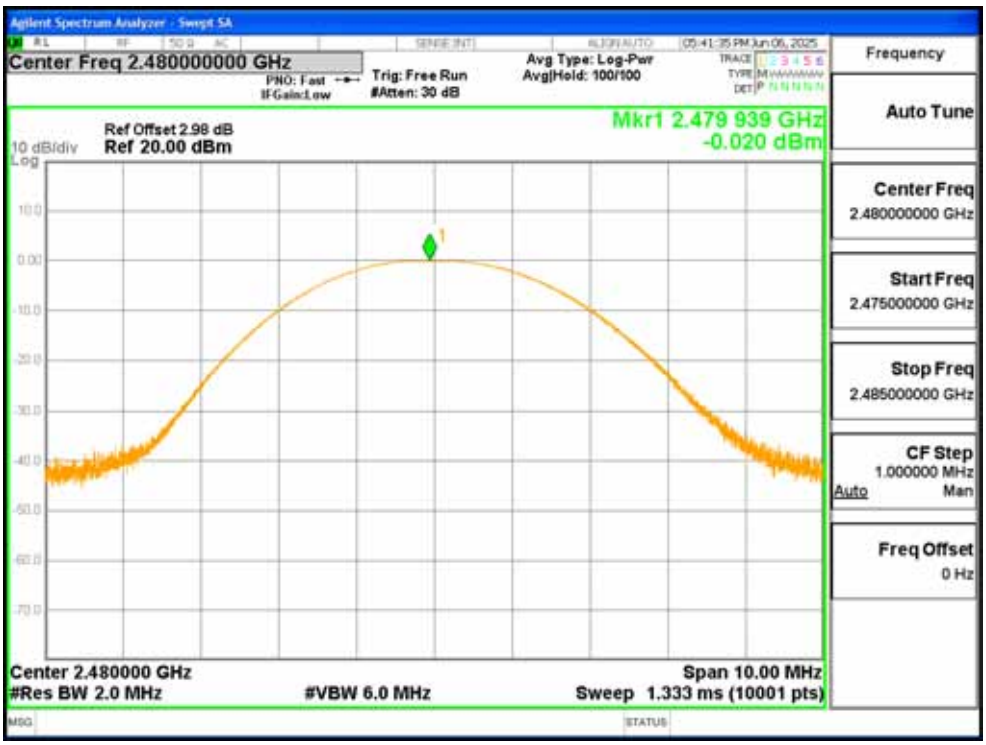
Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1

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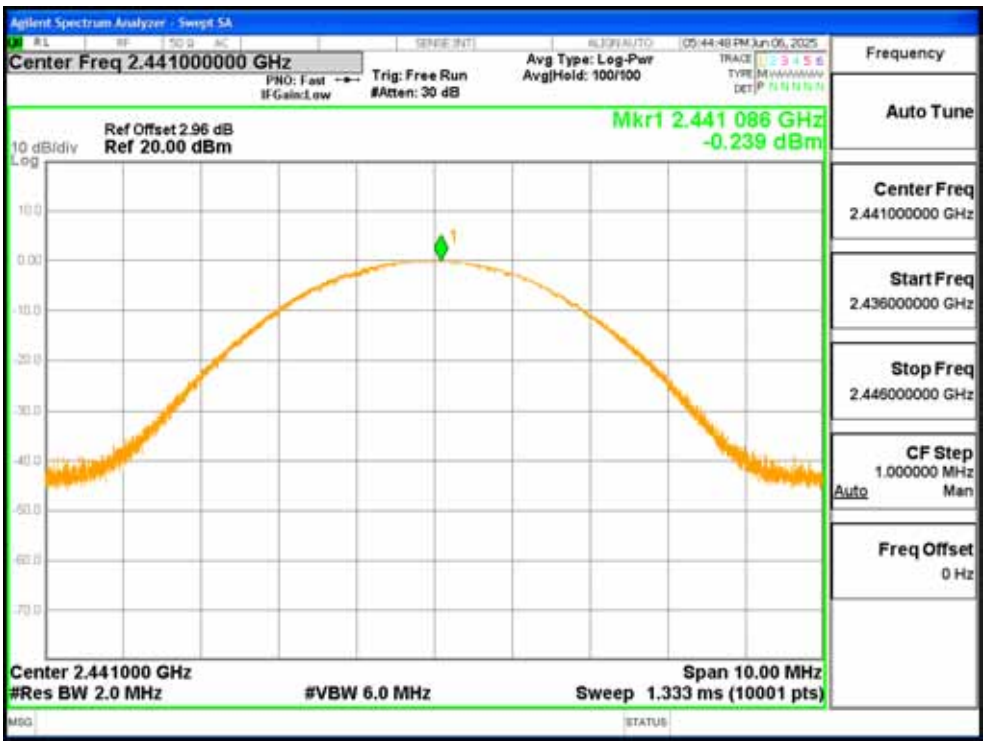
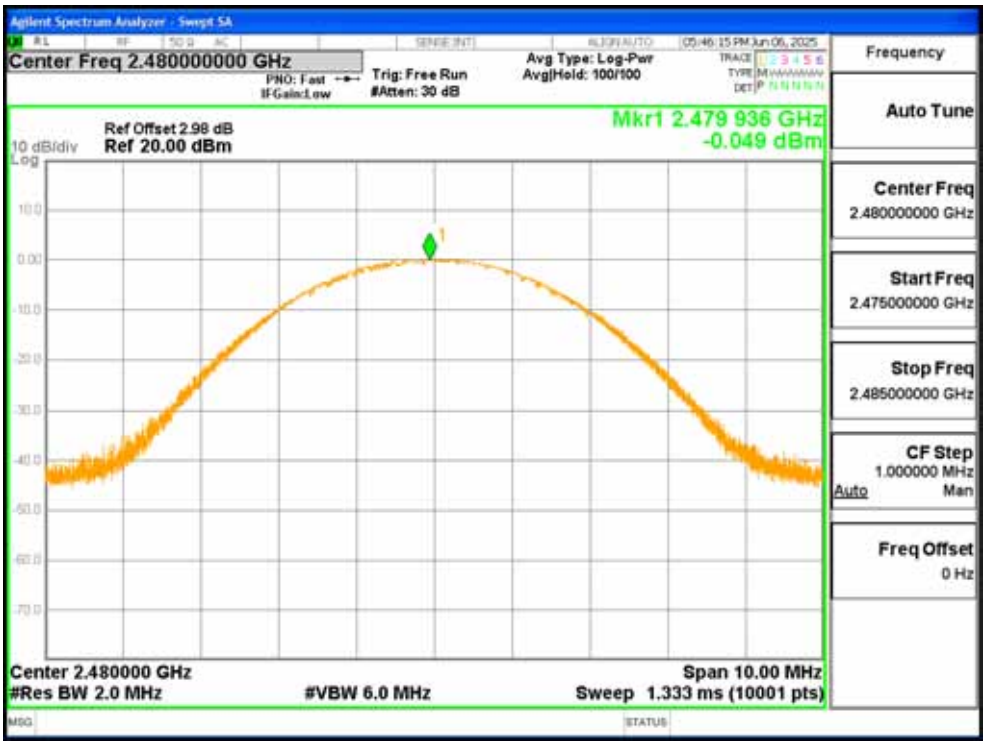
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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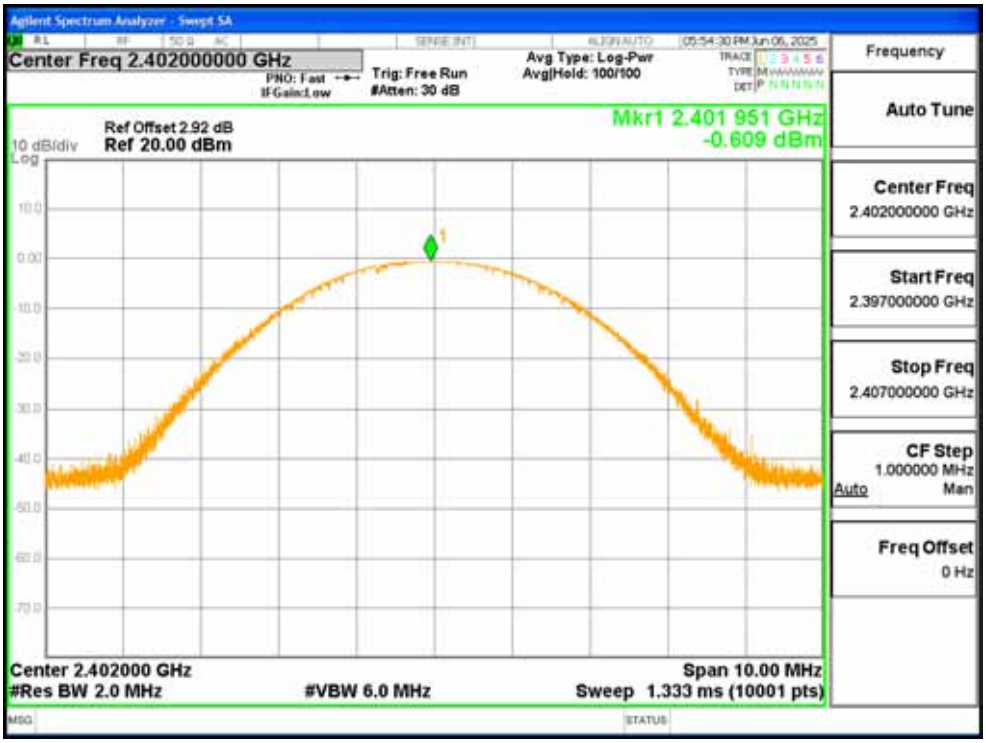
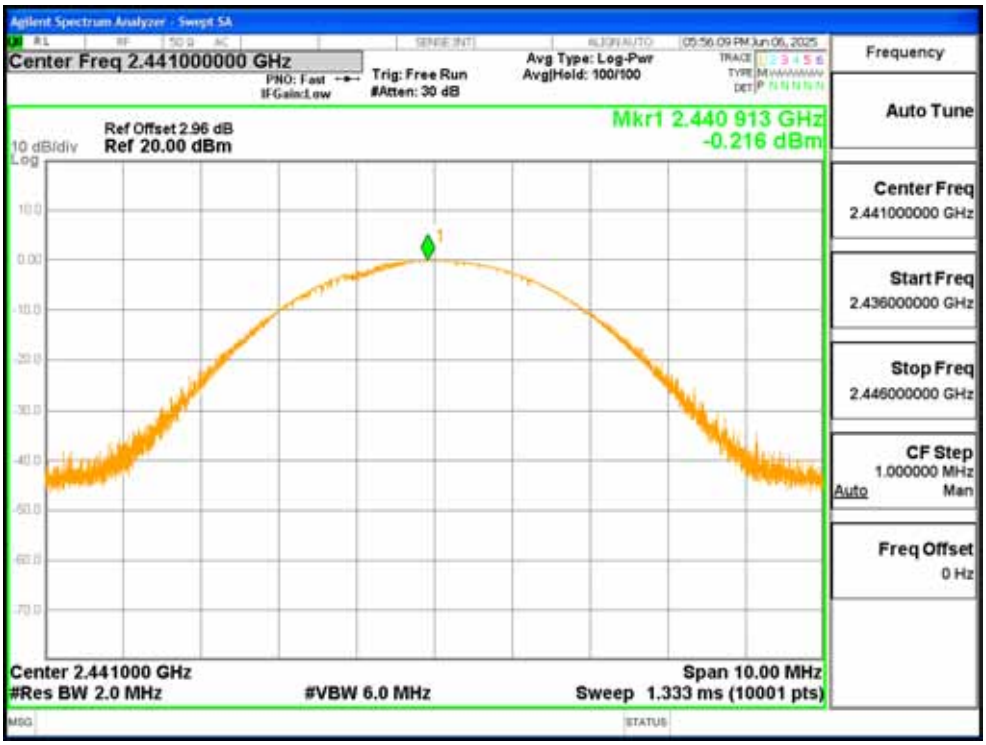
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



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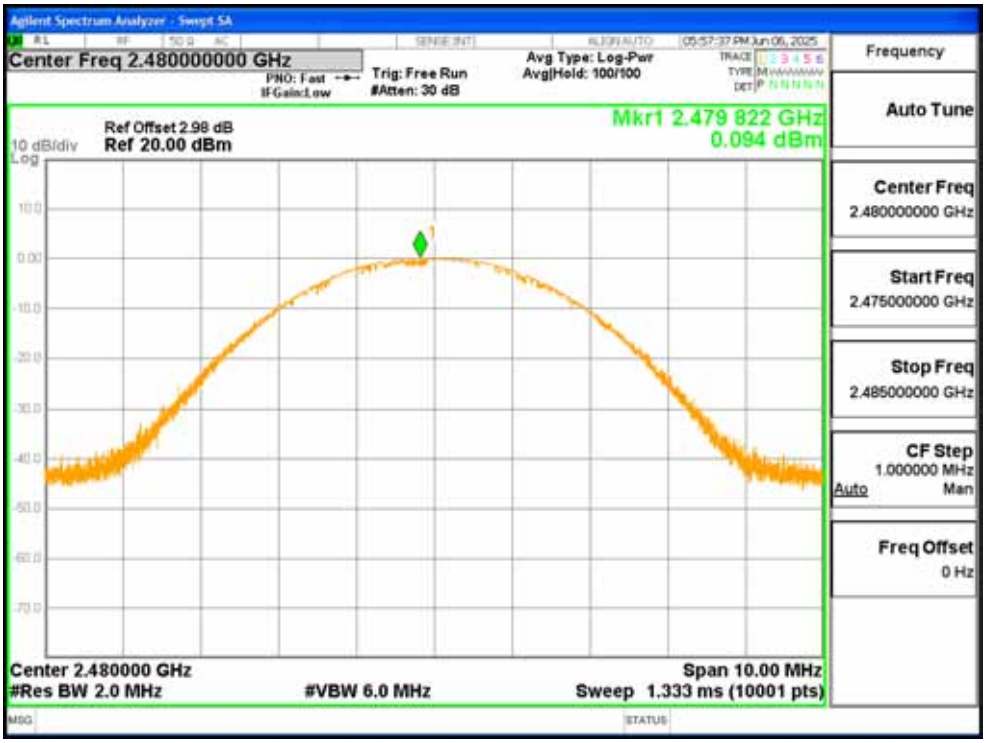
Power NVNT 3-DH5 2480MHz Ant1



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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), 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. Alternatively, 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 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) ⩾ 1% of the span; Video (or Average) Bandwidth (VBW) ⩾ RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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9.4Test Result

Type of Modulation:

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.028	2402.962	0.934	0.025	Pass
			2440.952	2441.98	1.028	0.025	Pass
			2478.972	2479.98	1.008	0.025	Pass
	2-DH5		2402.11	2403.14	1.03	0.025	Pass
			2441.128	2441.836	0.708	0.025	Pass
			2479.116	2479.984	0.868	0.025	Pass
	3-DH5		2401.984	2403.154	1.17	0.025	Pass
			2441.04	2442.004	0.964	0.025	Pass
			2479.016	2479.984	0.968	0.025	Pass

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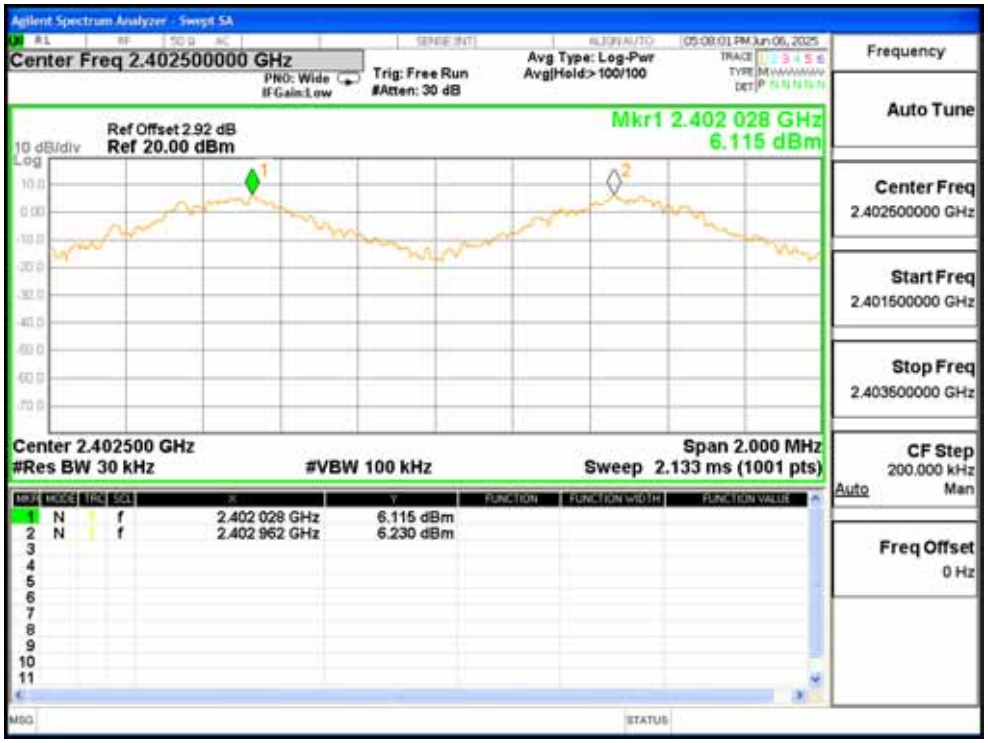
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1

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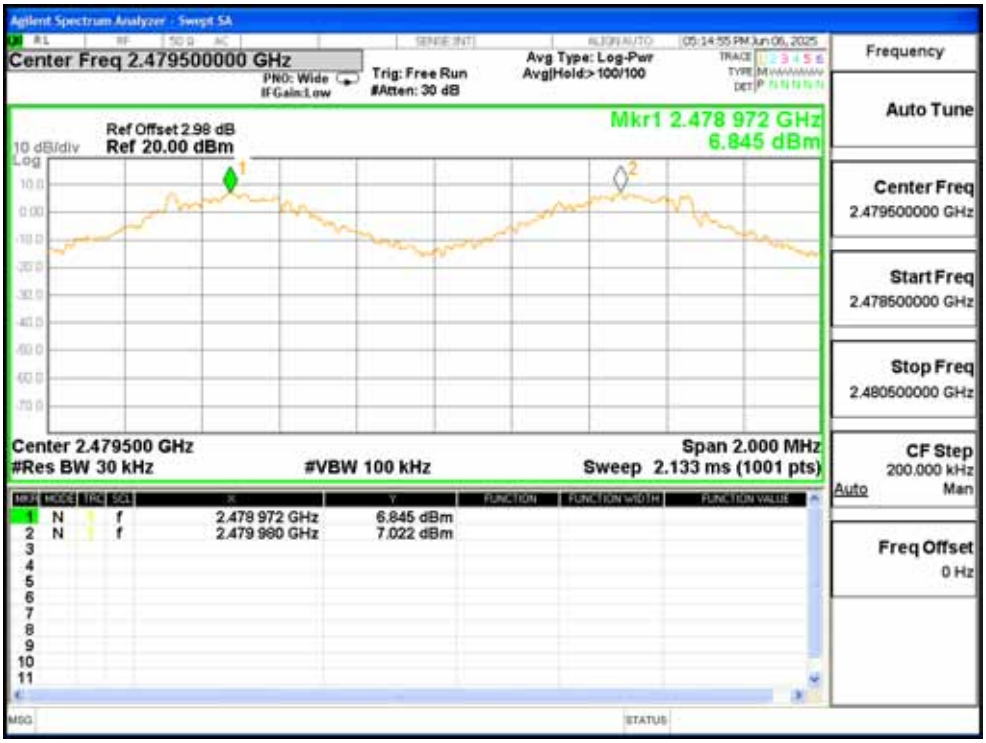
CFS NVNT 1-DH5 2480MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

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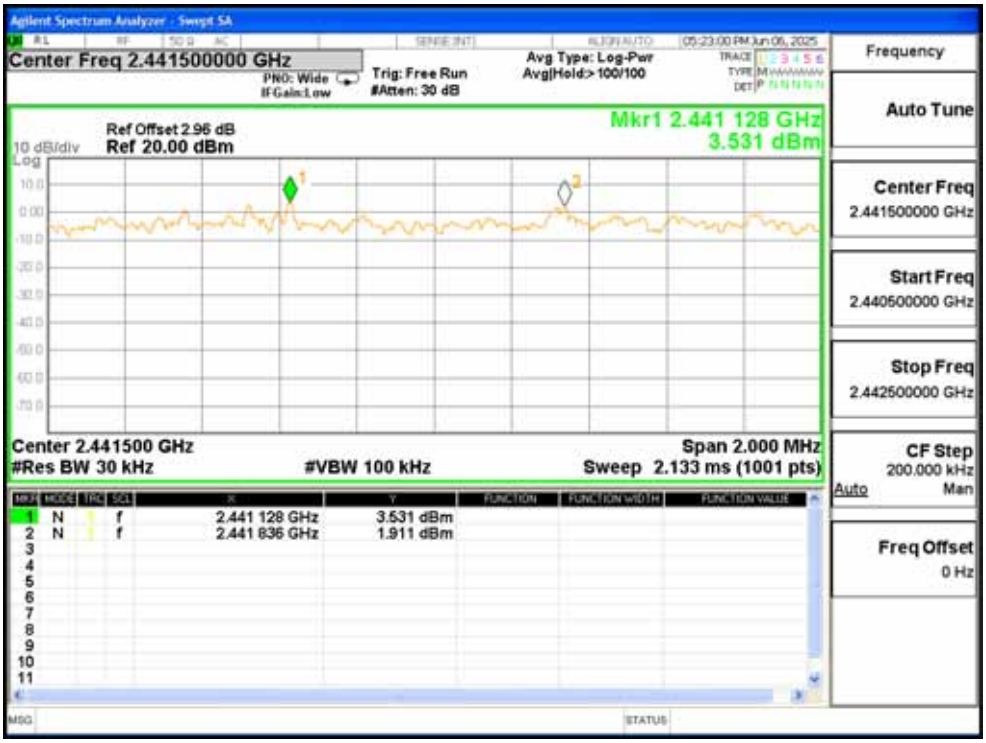
CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1

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CFS NVNT 3-DH5 2402MHz Ant1

CFS NVNT 3-DH5 2441MHz Ant1

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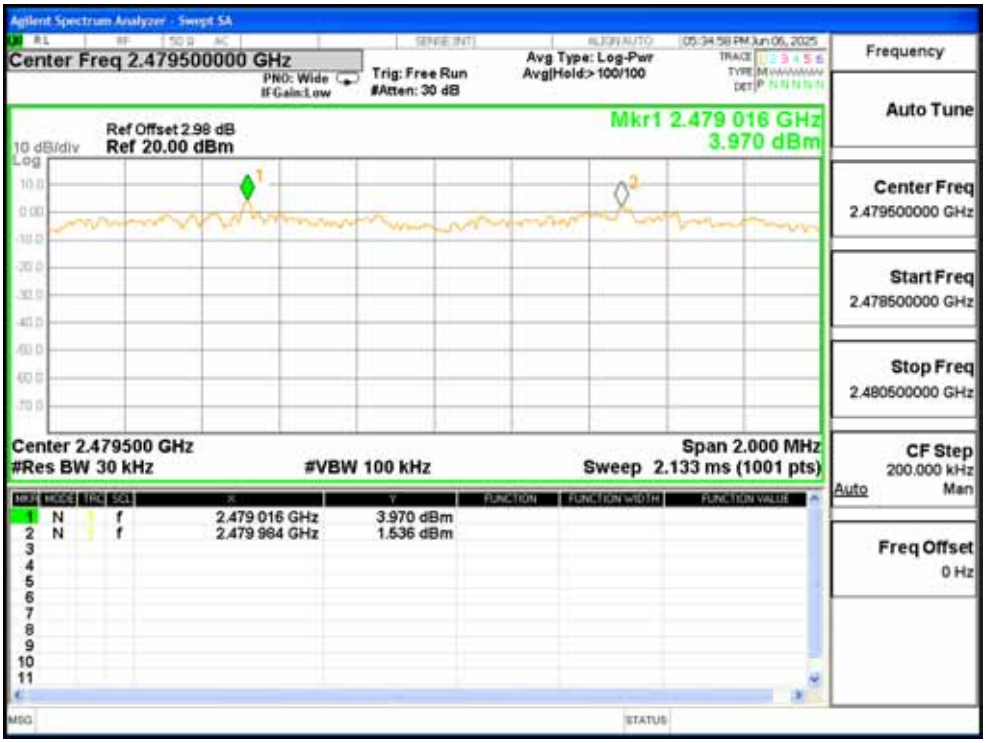
CFS NVNT 3-DH5 2480MHz Ant1



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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy 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. According to §15.247(b)(1), 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. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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10.4Test Result

Type of Modulation:

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
	2-DH5			15	Pass
	3-DH5			15	Pass

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Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

Hopping No. NVNT 1-DH5 2441MHz Ant1

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Hopping No. NVNT 1-DH5 2480MHz Ant1

Hopping No. NVNT 2-DH5 2402MHz Ant1

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Hopping No. NVNT 2-DH5 2441MHz Ant1

Hopping No. NVNT 2-DH5 2480MHz Ant1

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Hopping No. NVNT 3-DH5 2402MHz Ant1

Hopping No. NVNT 3-DH5 2441MHz Ant1

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Hopping No. NVNT 3-DH5 2480MHz Ant1

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy 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.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy 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

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation:

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.873	316.03	110	31600	400	Pass
		2441		2.873	316.03	110	31600	400	Pass
		2480		2.873	327.522	114	31600	400	Pass
	2-DH5	2402		2.874	270.156	94	31600	400	Pass
		2441		2.875	336.375	117	31600	400	Pass
		2480		2.878	282.044	98	31600	400	Pass
	3-DH5	2402		2.88	313.92	109	31600	400	Pass
		2441		2.88	293.76	102	31600	400	Pass
		2480		2.881	279.457	97	31600	400	Pass

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

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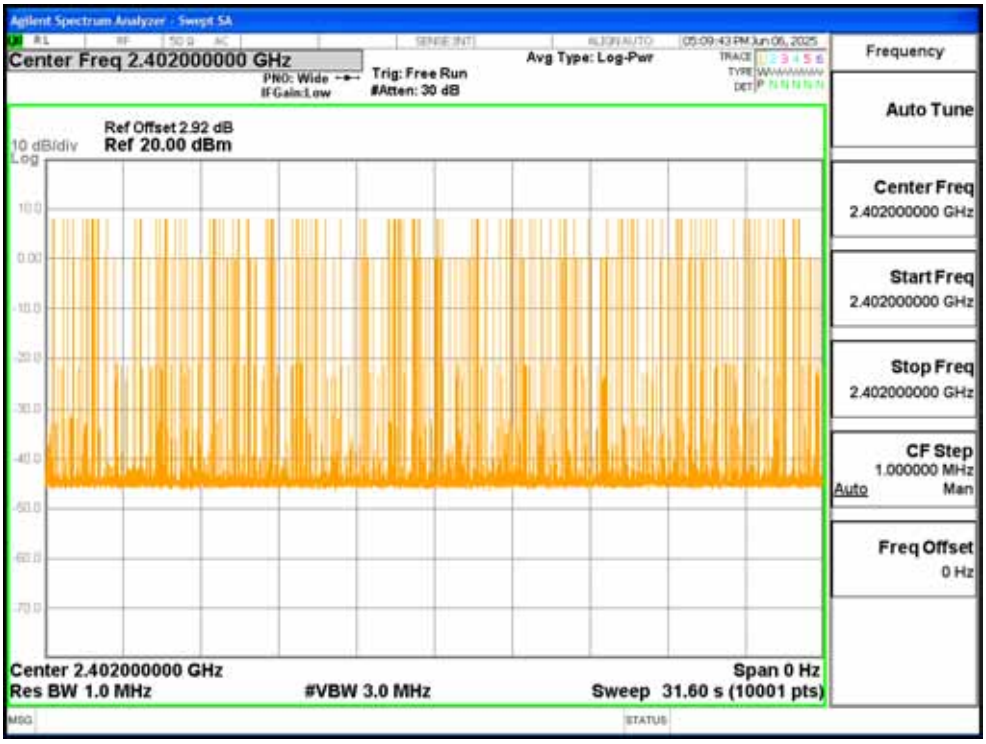
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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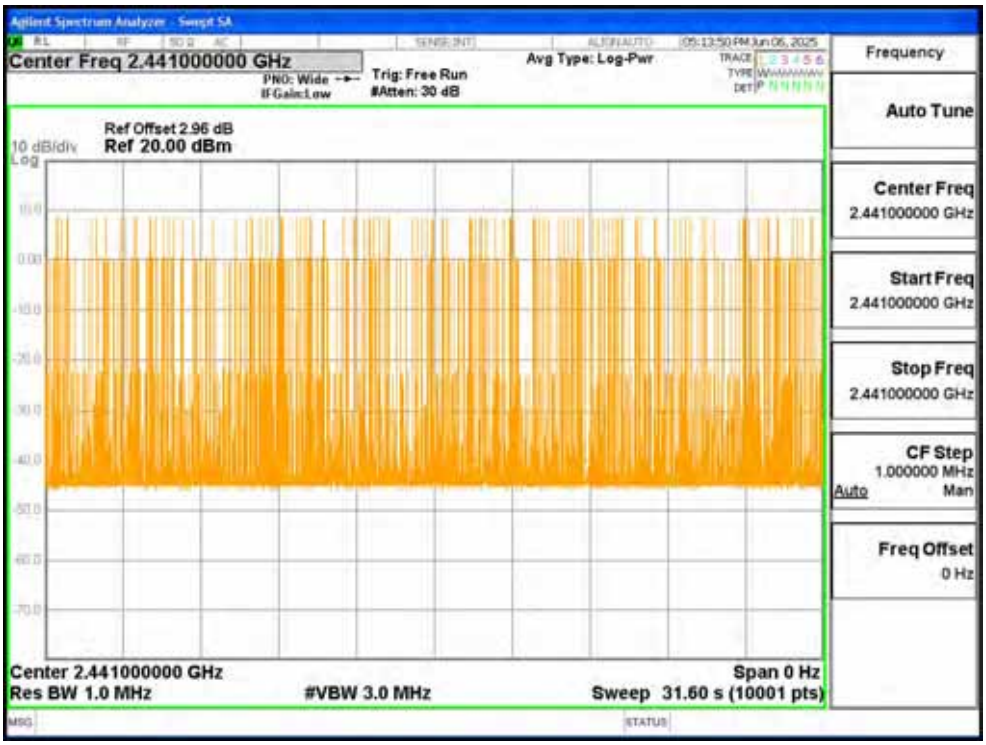
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



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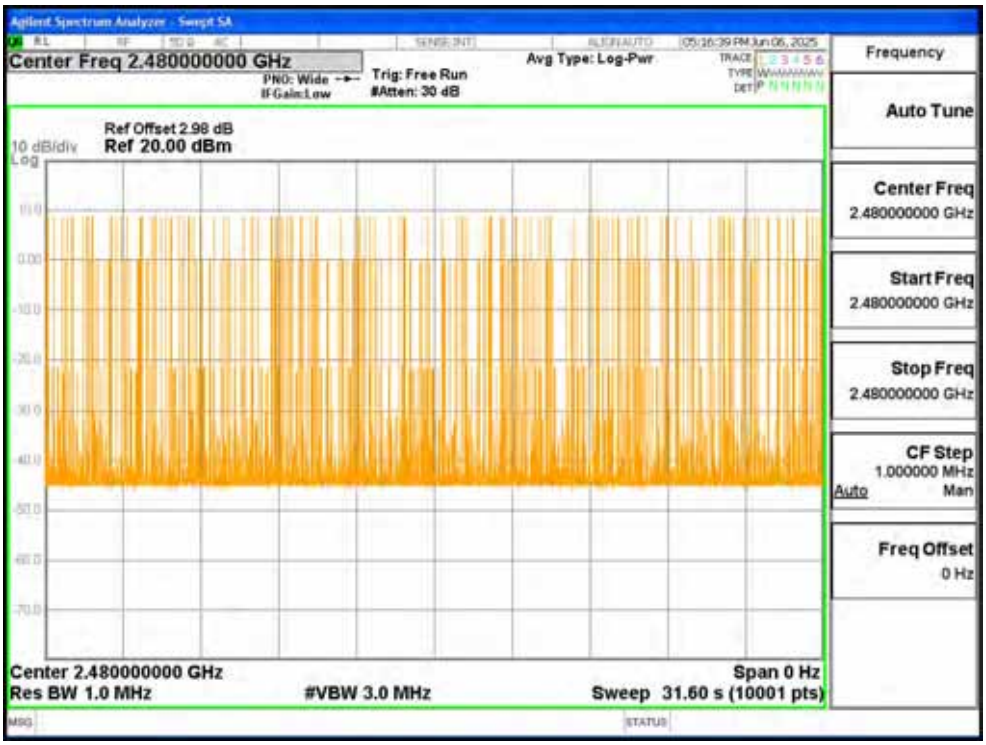
Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



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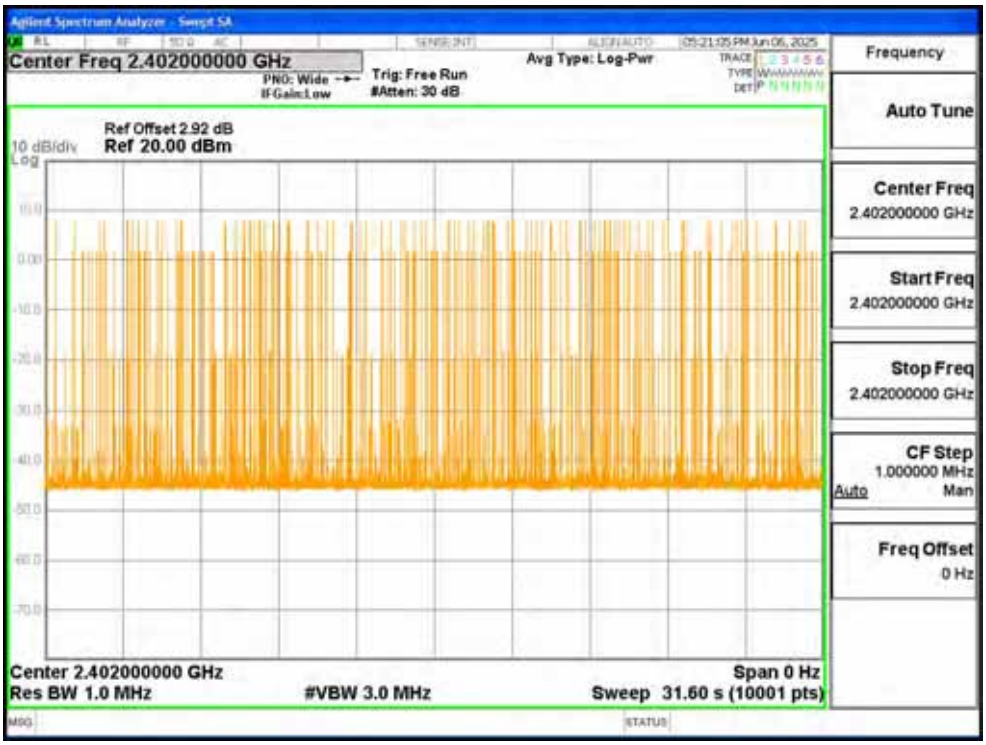
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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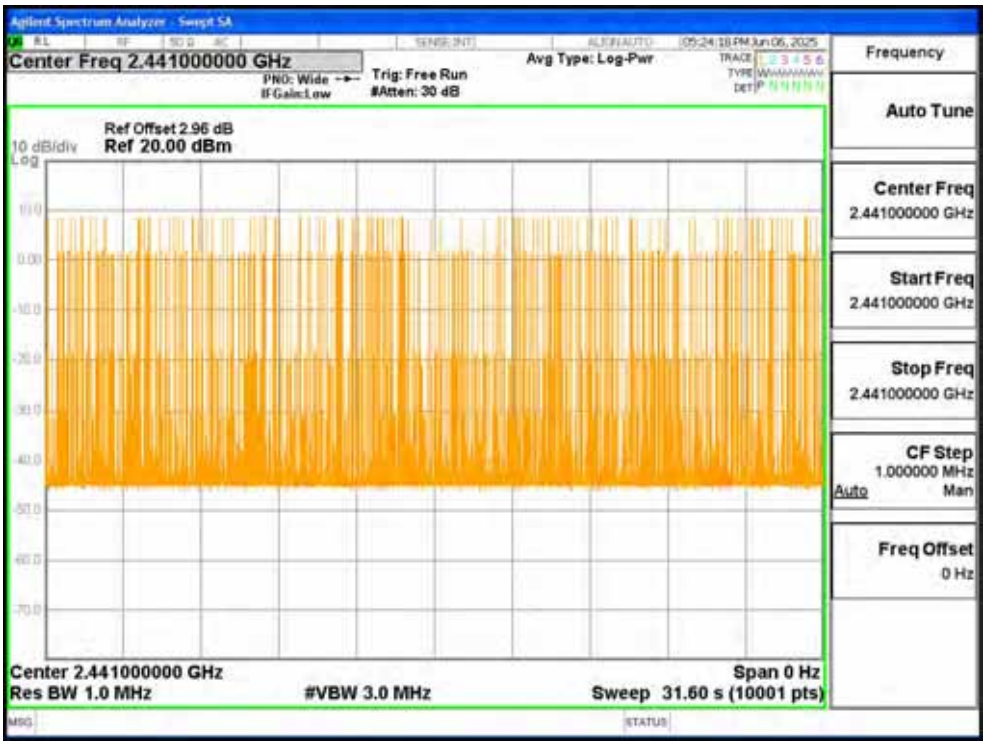
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



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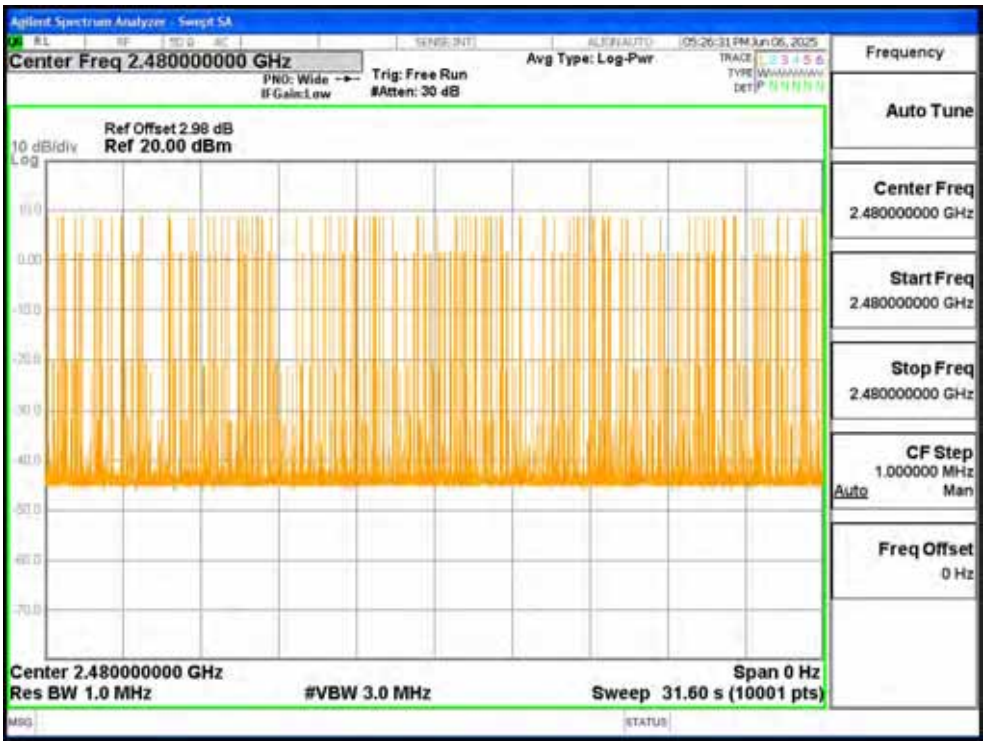

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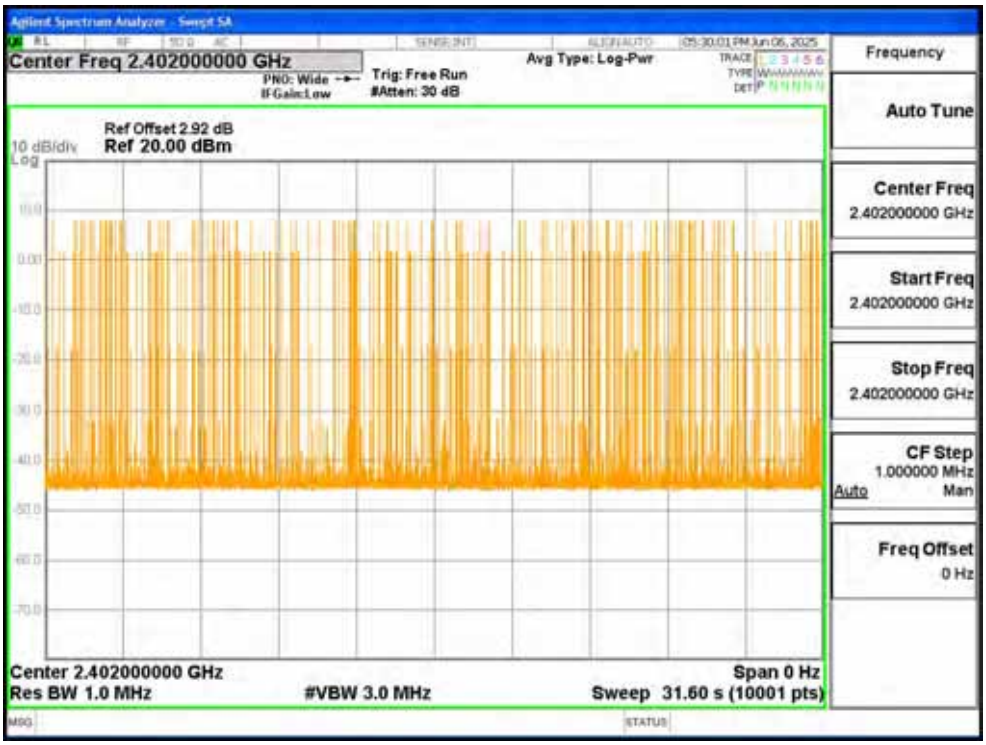

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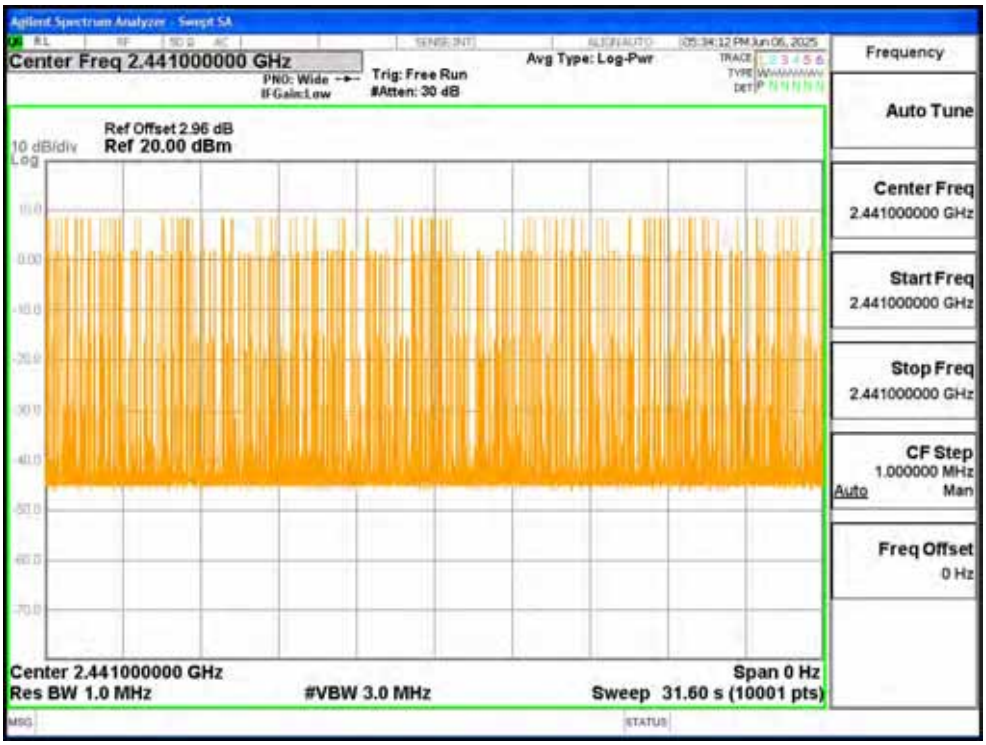

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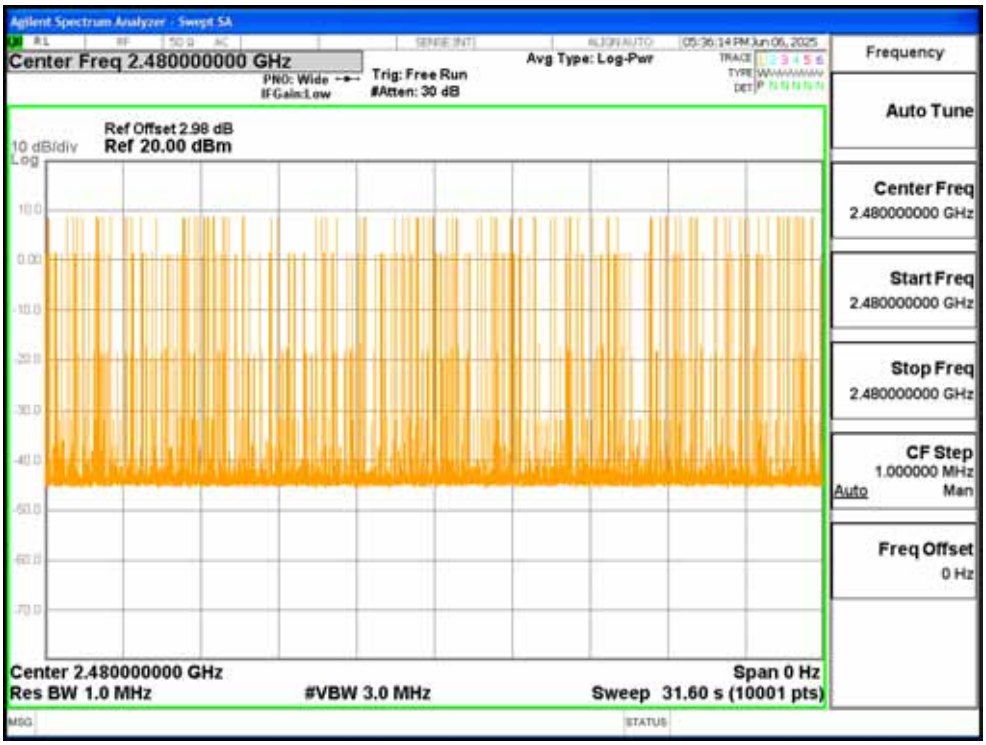

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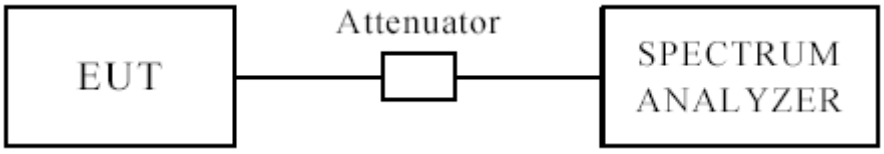
12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.
For bandage test, the spectrum set as follows: RBW=100kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-42.12	-20	Pass
		2480		No-Hopping	-51.17	-20	Pass
	2-DH5	2402		No-Hopping	-43	-20	Pass
		2480		No-Hopping	-52.48	-20	Pass
	3-DH5	2402		No-Hopping	-45.11	-20	Pass
		2480		No-Hopping	-52.56	-20	Pass

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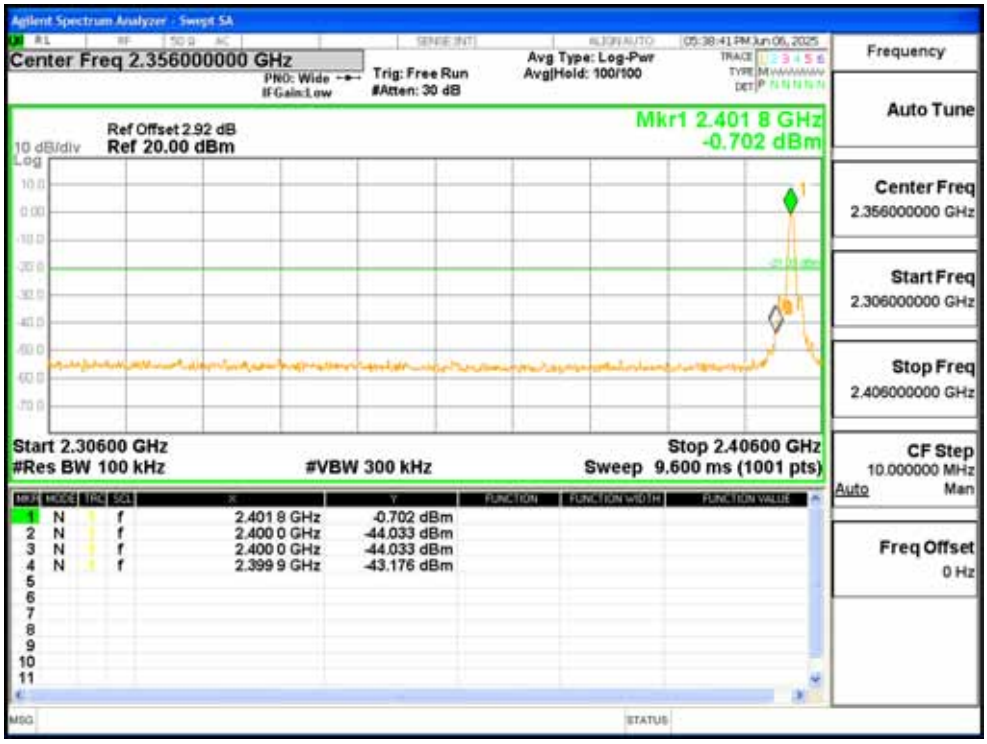
Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



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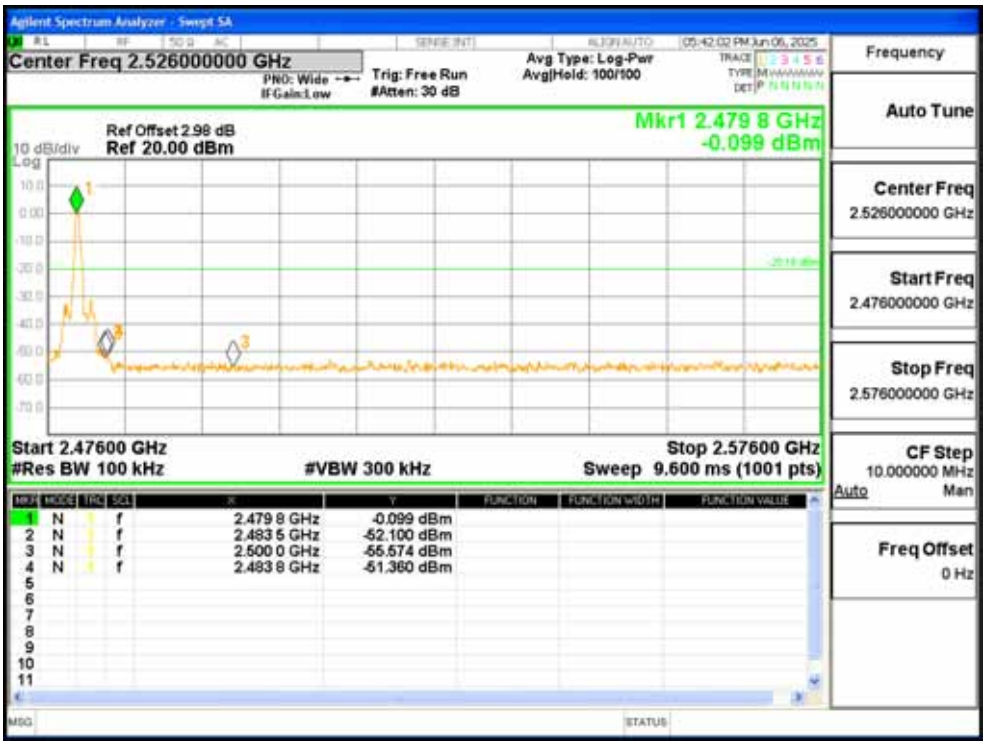
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

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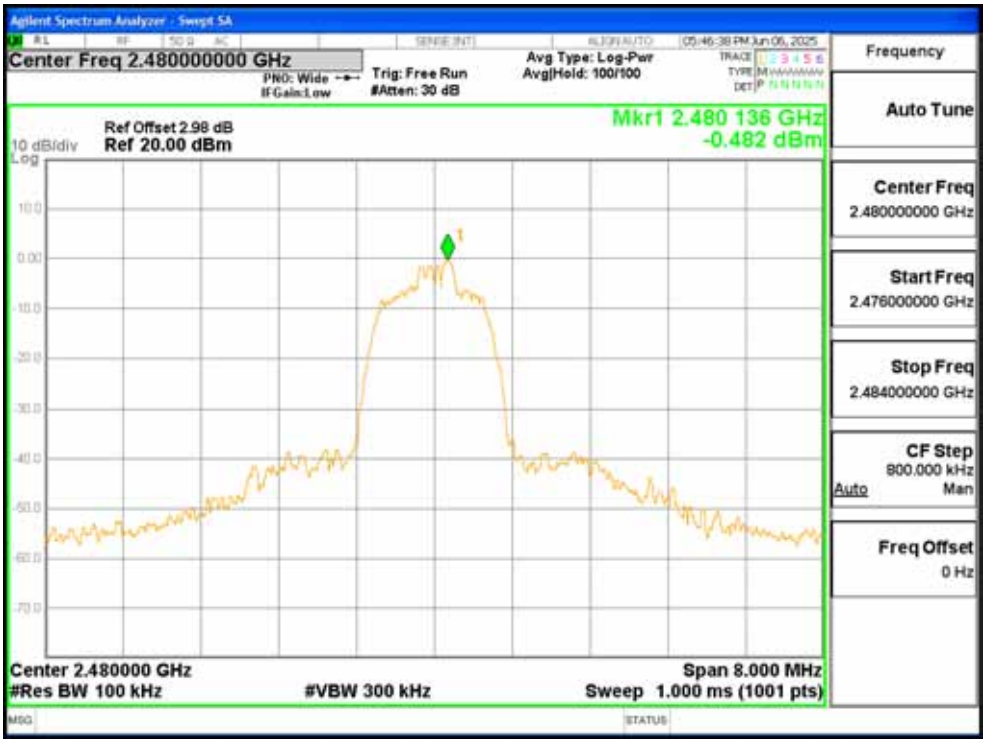
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

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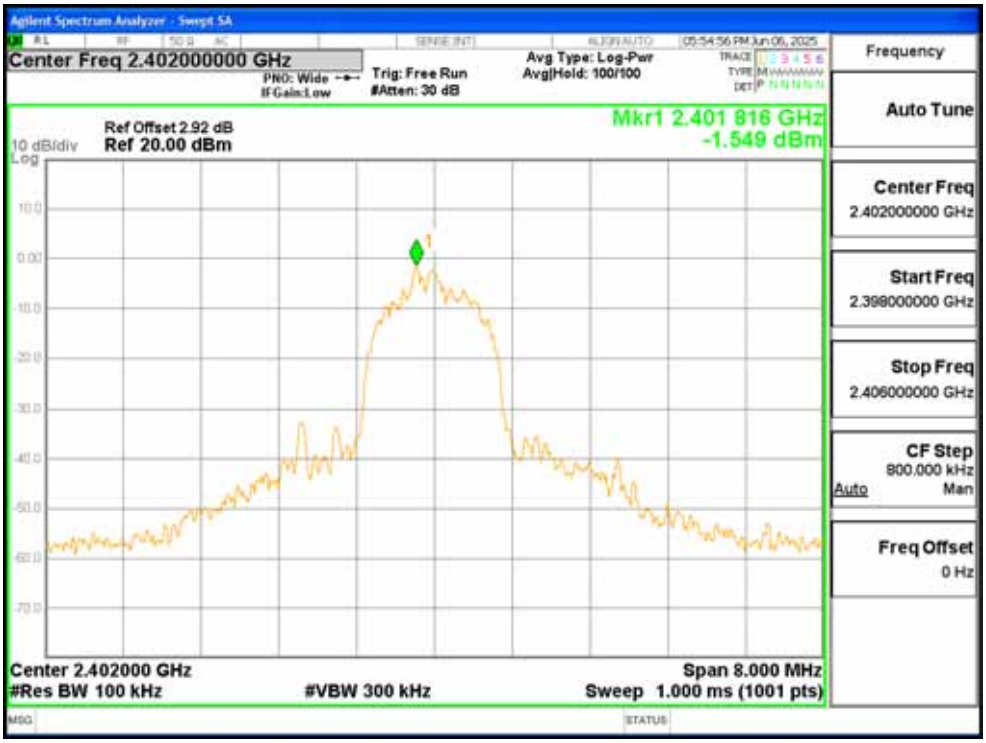
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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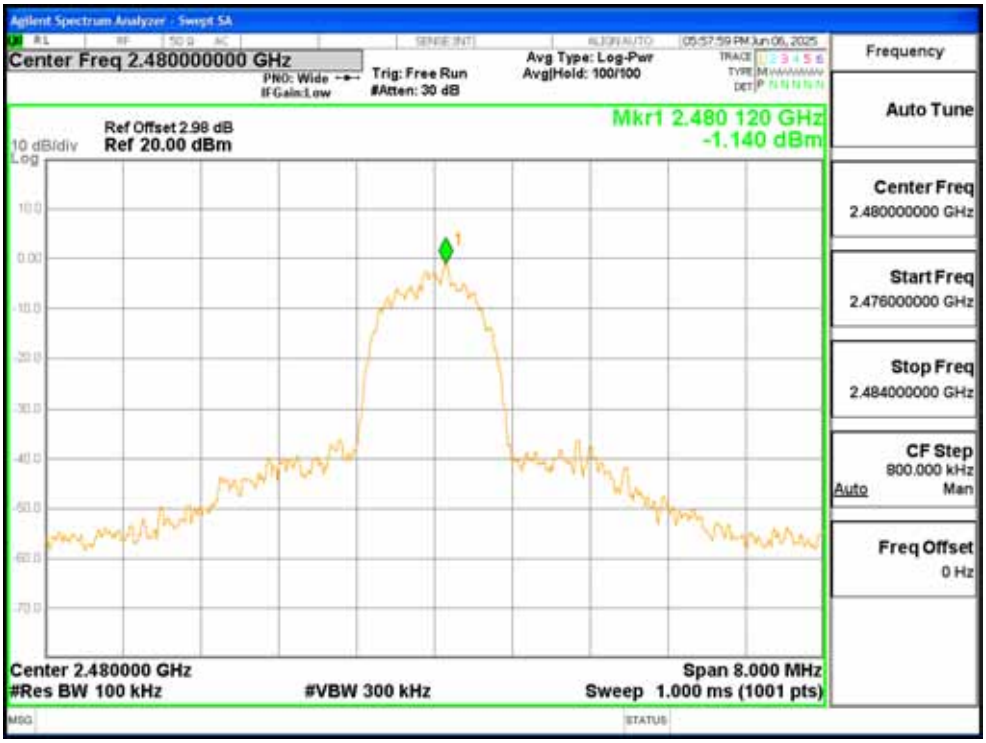
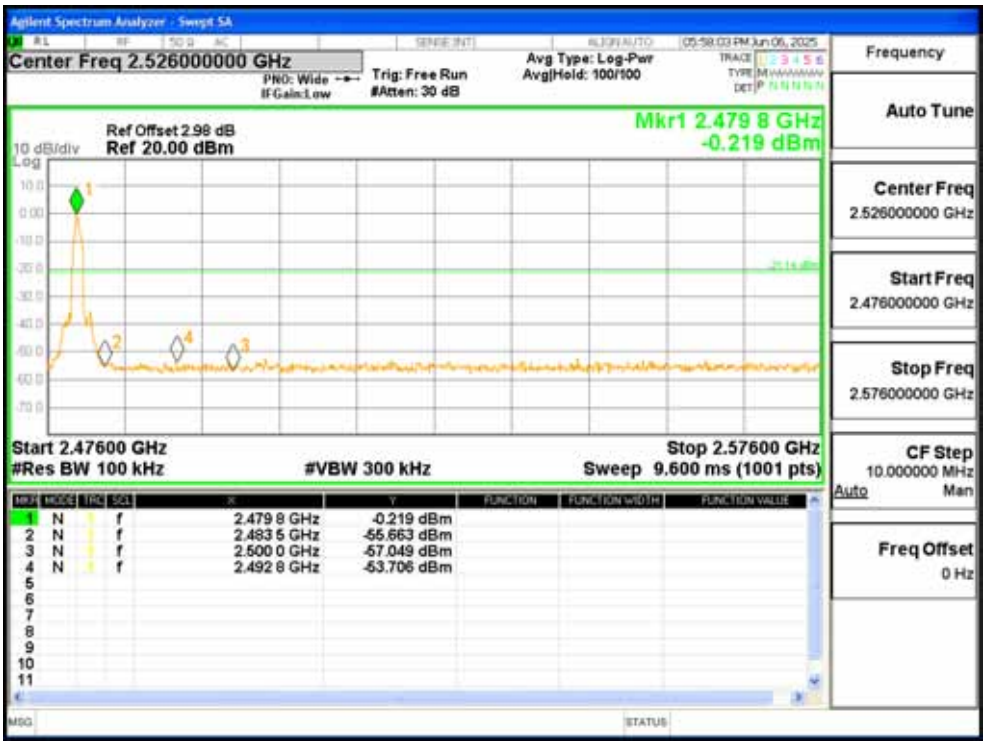


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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NVNT	1-DH5	2402	Ant1	Hopping	-45.38	-20	Pass
		2480		Hopping	-54.03	-20	Pass
	2-DH5	2402		Hopping	-43.34	-20	Pass
		2480		Hopping	-56.6	-20	Pass
	3-DH5	2402		Hopping	-44.71	-20	Pass
		2480		Hopping	-56.15	-20	Pass

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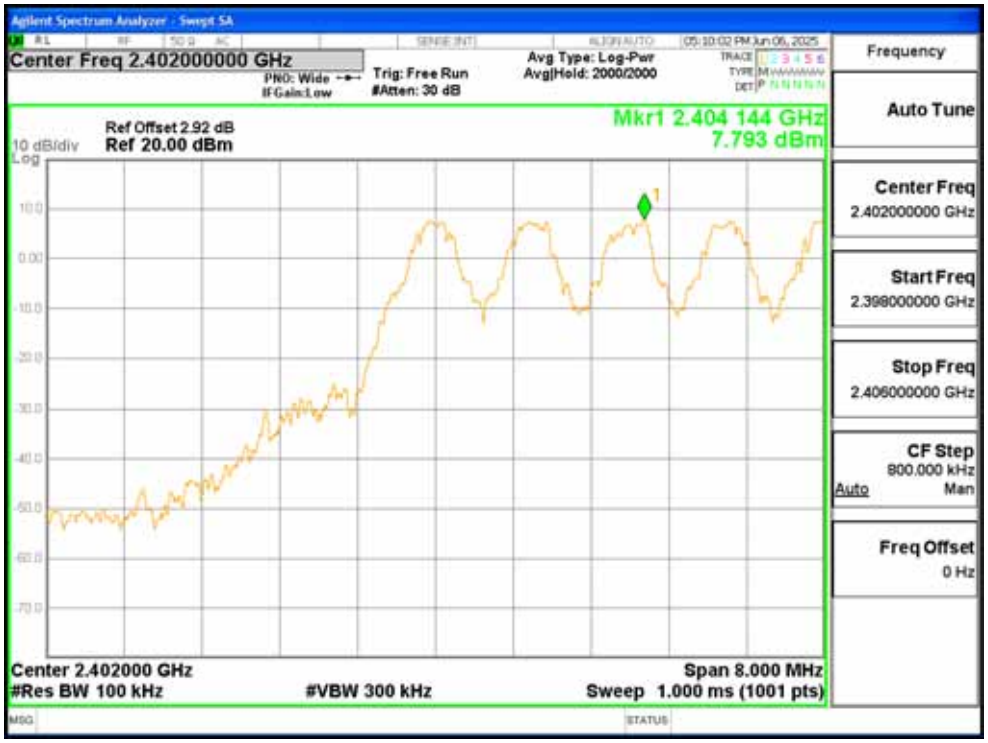
Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



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12.5 Restricted band Measurement

EUT	EVPAD Player			Model	EVPAD-12P
Mode	Keeping Transmitting			Test Voltage	120V~
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
GFSK, Low Channel, Horizontal					
2390	PK (dBμV/m)	40.23	Limit		74(dBμV/m)
	AV (dBμV/m)	--			54(dBμV/m)
GFSK, Low Channel Vertical					
2390	PK (dBμV/m)	39.85	Limit		74(dBμV/m)
	AV (dBμV/m)	--			54(dBμV/m)

12.5 Restricted band Measurement

EUT	EVPAD Player			Model	EVPAD-12P
Mode	Keeping Transmitting			Test Voltage	120V~
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
GFSK, High Channel, Horizontal					
2483.5	PK (dBμV/m)	56.49	Limit		74(dBμV/m)
	AV (dBμV/m)	41.68			54(dBμV/m)
GFSK, High Channel, Vertical					
2483.5	PK (dBμV/m)	45.16	Limit		74(dBμV/m)
	AV (dBμV/m)	--			54(dBμV/m)

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12.5 Restricted band Measurement

EUT	EVPAD Player		Model	EVPAD-12P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
Л/4DQPSK, Low Channel, Horizontal				
2390	PK (dBμV/m)	40.43	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
Л/4DQPSK, Low Channel Vertical				
2390	PK (dBμV/m)	39.32	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

12.5 Restricted band Measurement

EUT	EVPAD Player		Model	EVPAD-12P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
Л/4DQPSK, High Channel, Horizontal				
2483.5	PK (dBμV/m)	56.13	Limit	74(dBμV/m)
	AV (dBμV/m)	41.03		54(dBμV/m)
Л/4DQPSK, High Channel, Vertical				
2483.5	PK (dBμV/m)	44.78	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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12.5 Restricted band Measurement

EUT	EVPAD Player		Model	EVPAD-12P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
8DPSK, Low Channel, Horizontal				
2390	PK (dBμV/m)	40.51	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
Л/4DQPSK, Low Channel Vertical				
2390	PK (dBμV/m)	39.82	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

12.5 Restricted band Measurement

EUT	EVPAD Player		Model	EVPAD-12P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
8DPSK, High Channel, Horizontal				
2483.5	PK (dBμV/m)	55.83	Limit	74(dBμV/m)
	AV (dBμV/m)	41.19		54(dBμV/m)
Л/4DQPSK, High Channel, Vertical				
2483.5	PK (dBμV/m)	44.37	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

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13.0 **Antenna Requirement**

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

FPC antenna used. The gain of the antennas is 0.31dBi (Get from the antenna specification provided the manufacturer)

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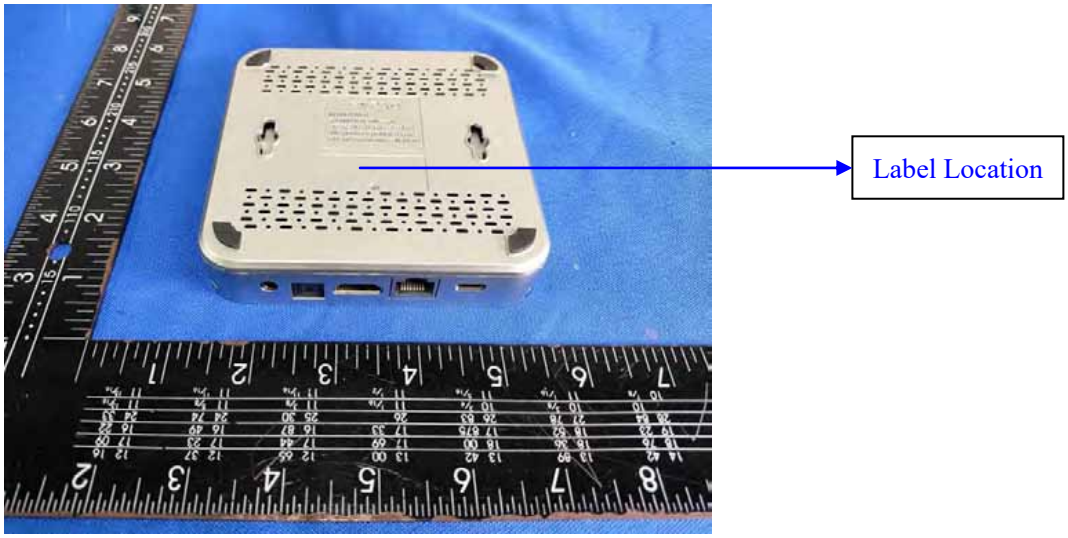
14.0 FCC ID Label

FCC ID: 2A4G812P12S

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

Conducted Emission Test Setup:

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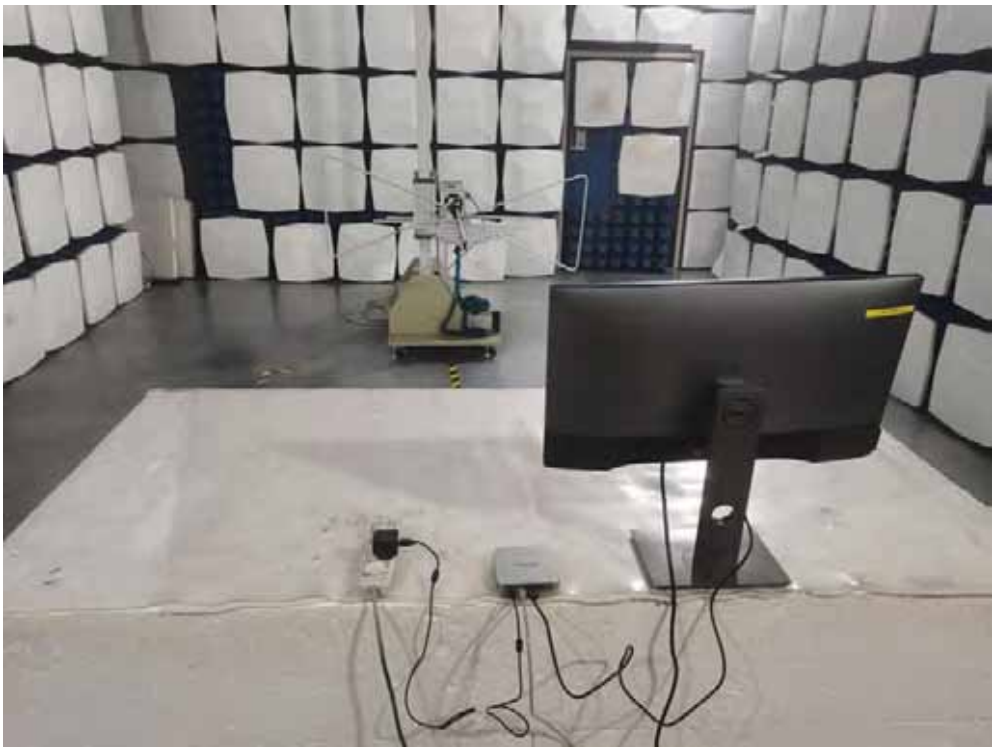
Radiated Emission Test Setup:



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Photographs – EUT

Outside View

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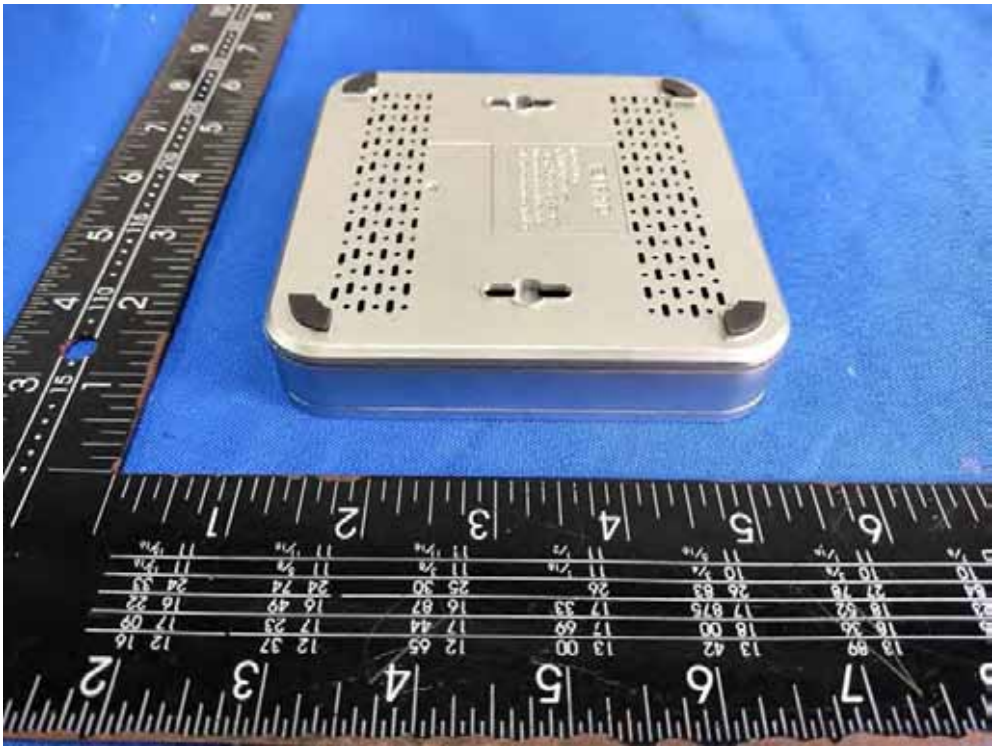

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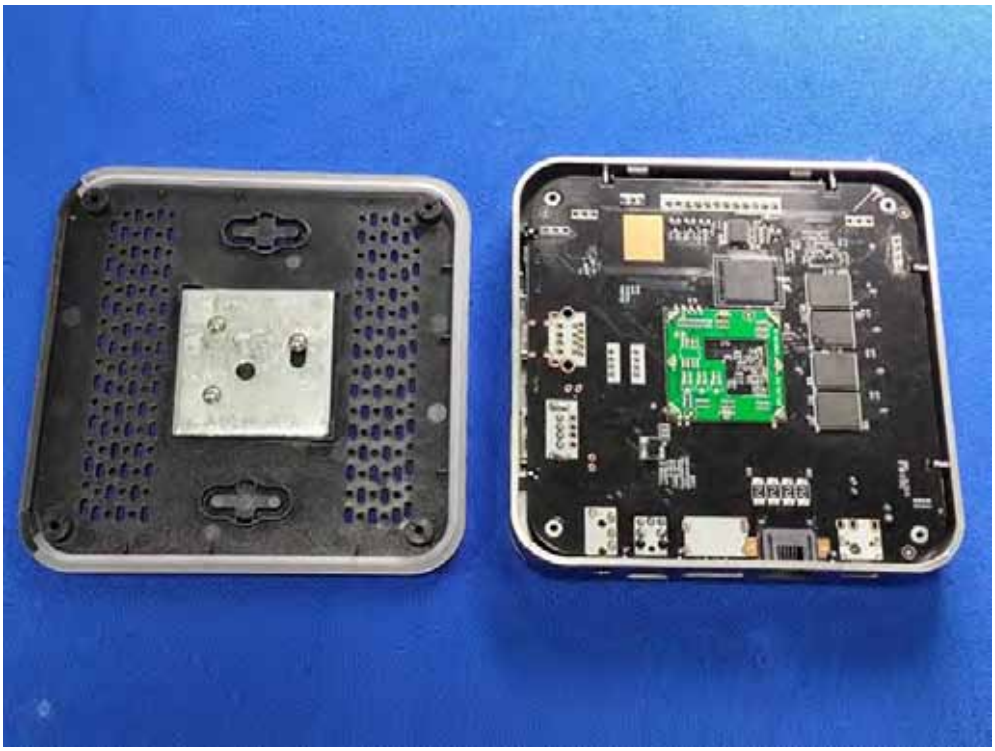

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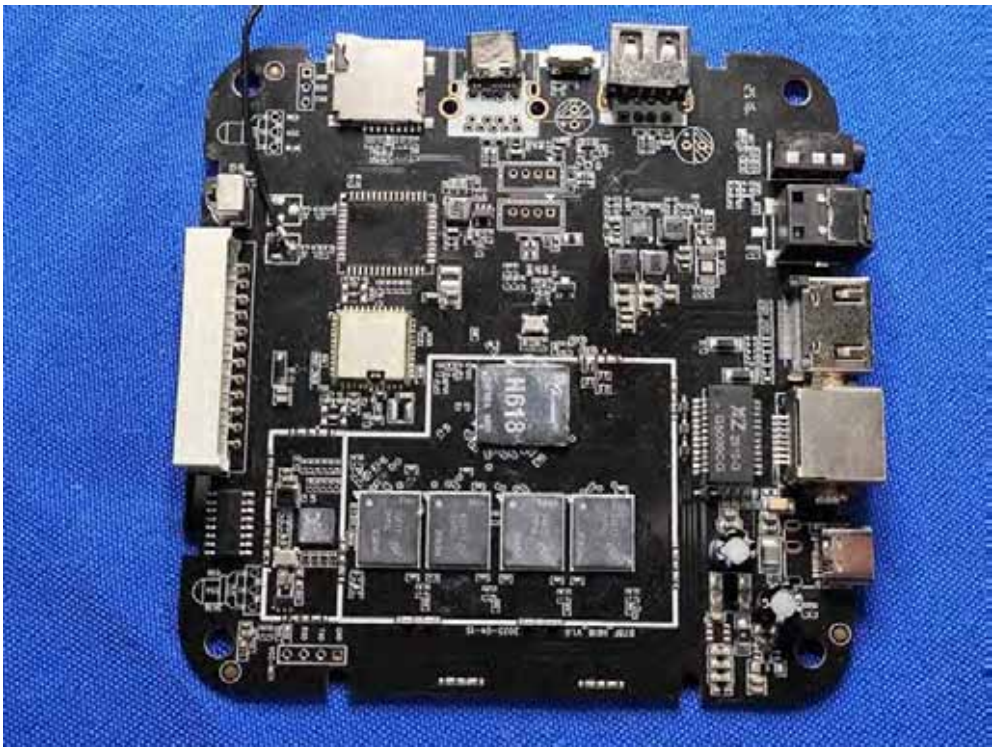

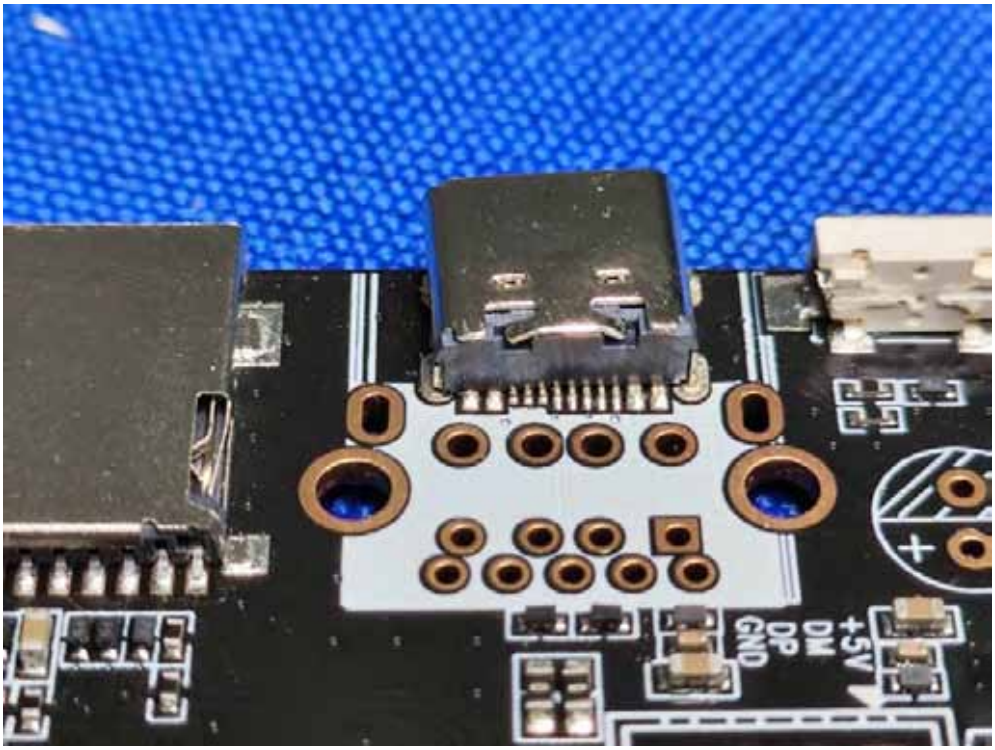

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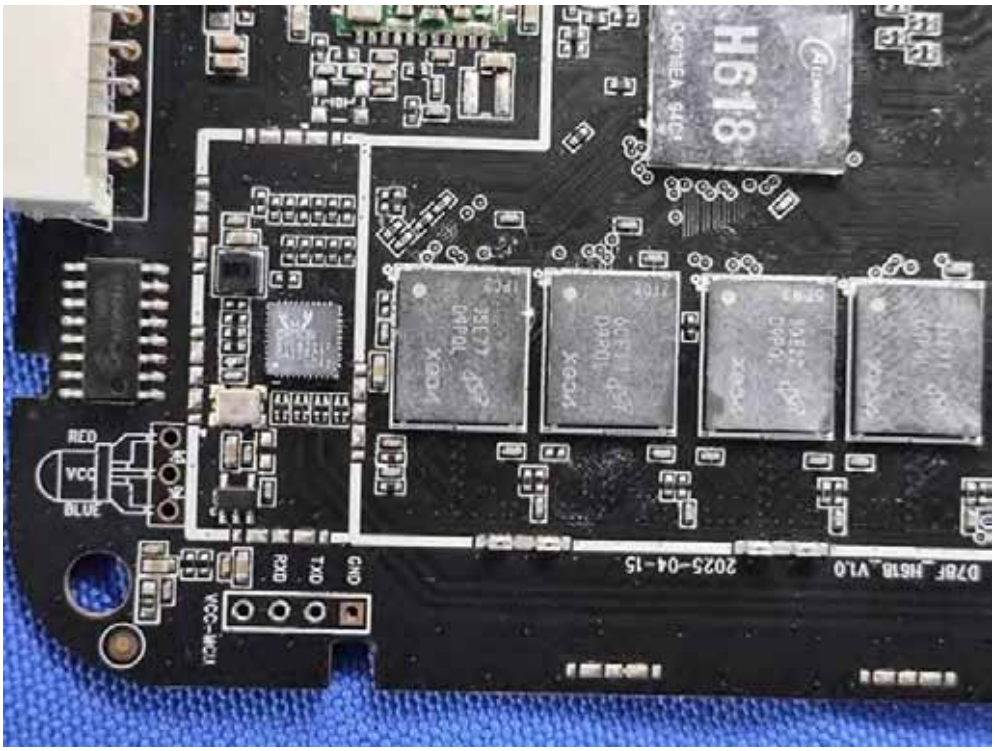

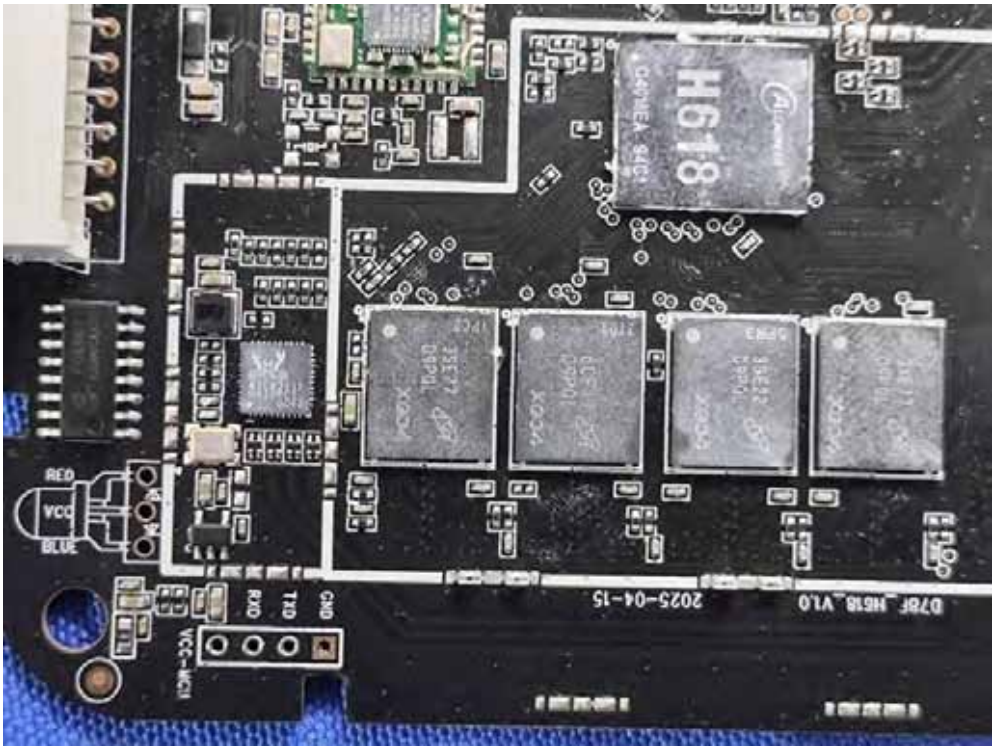

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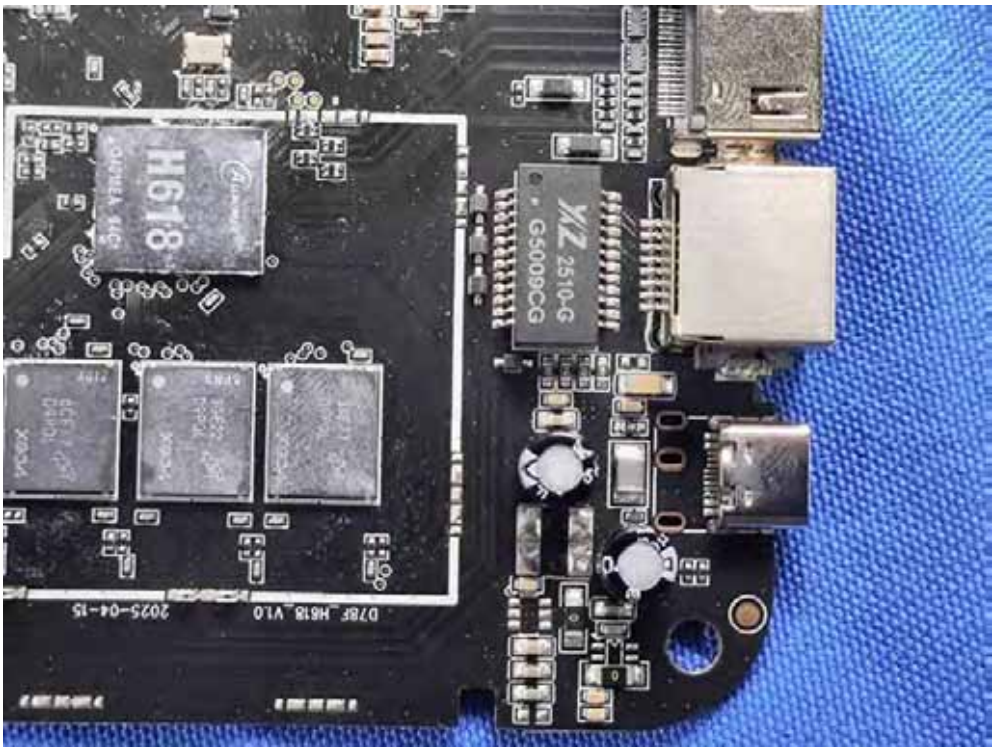

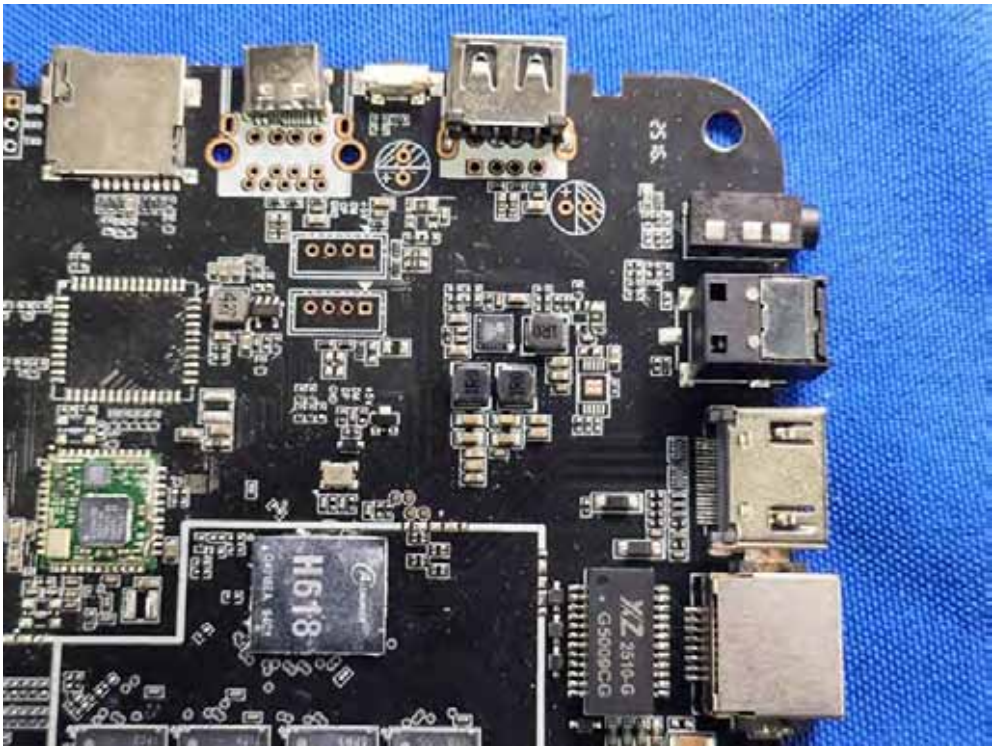

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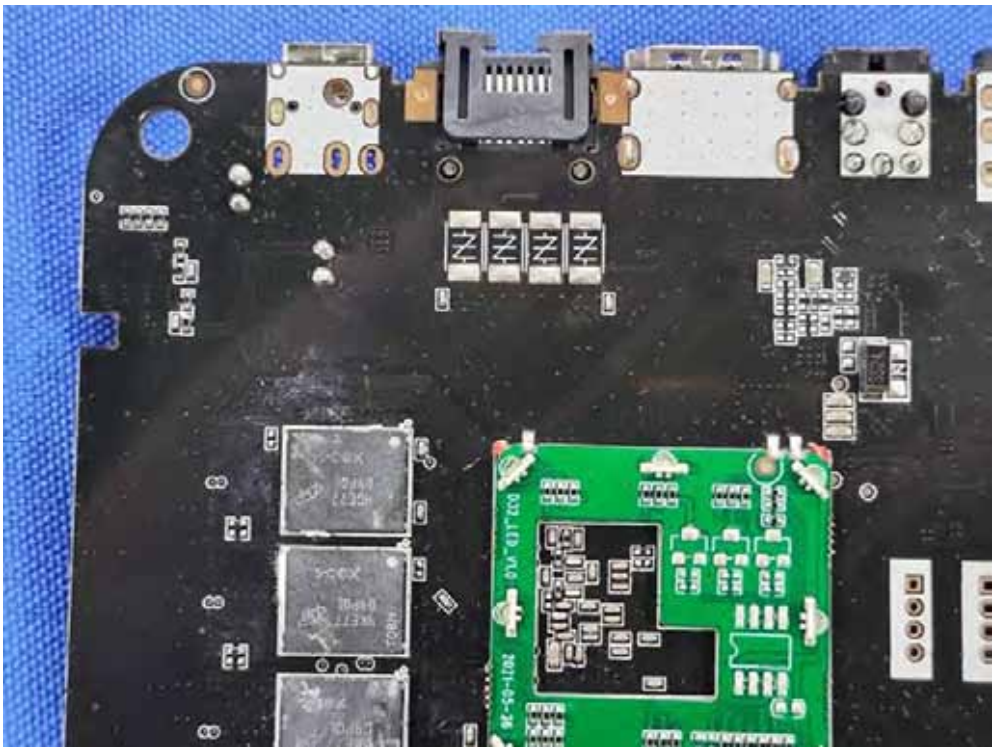

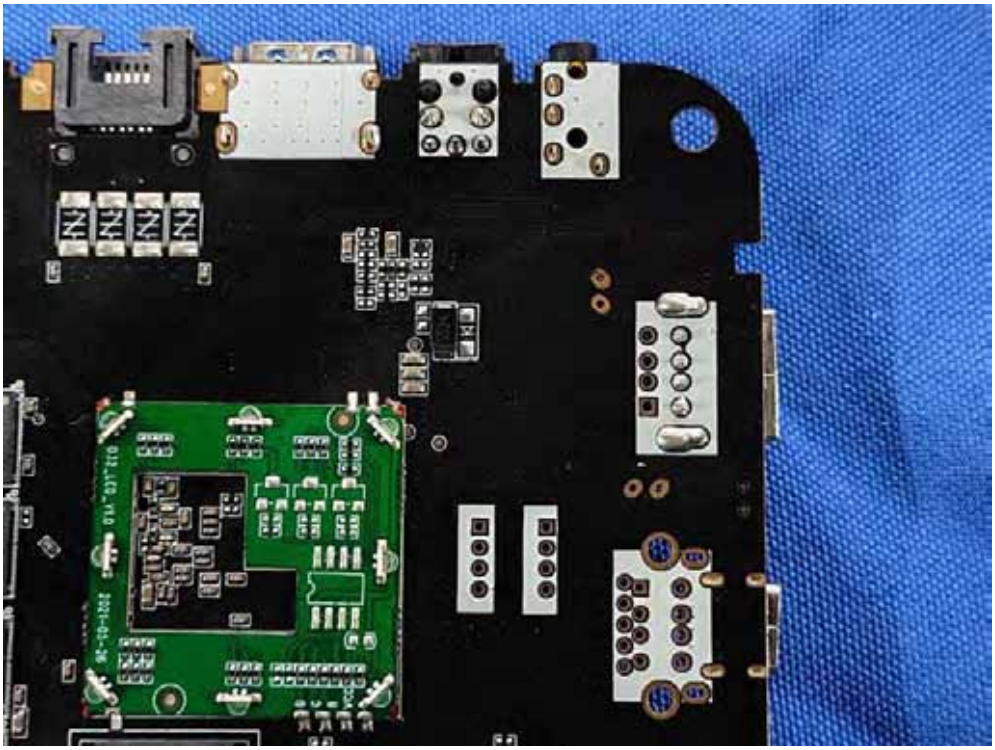

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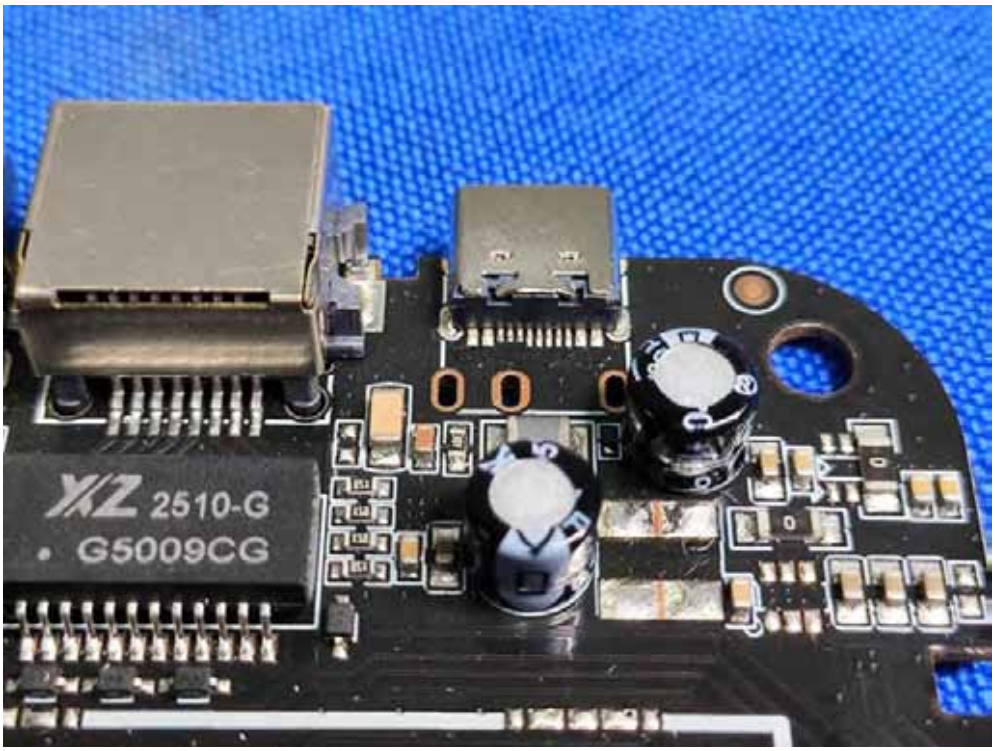

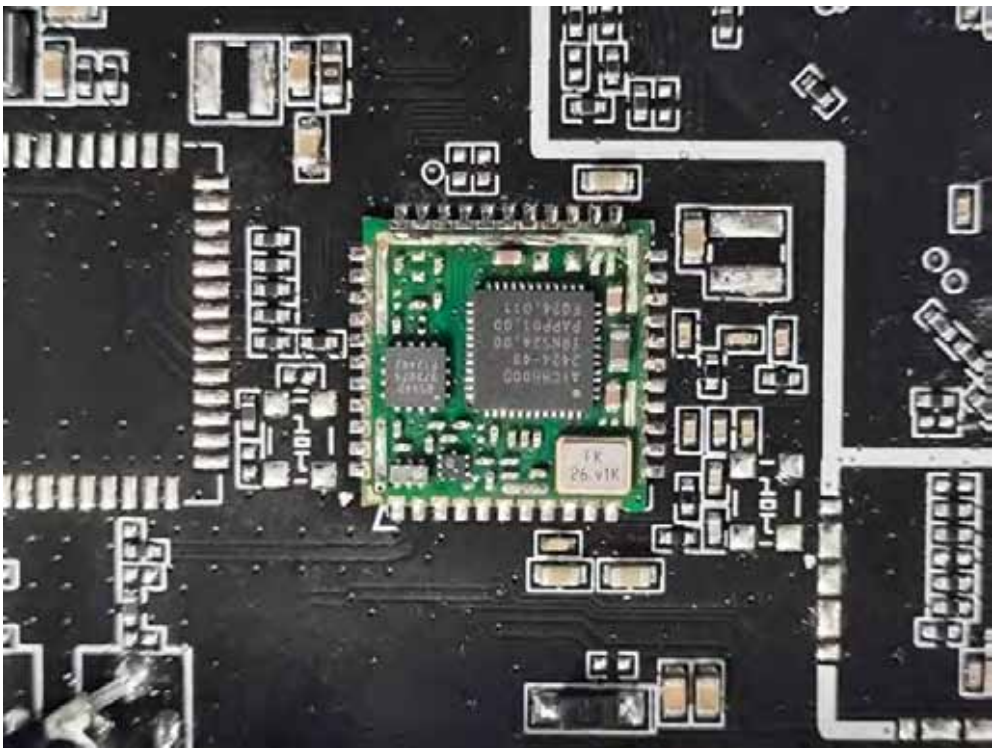

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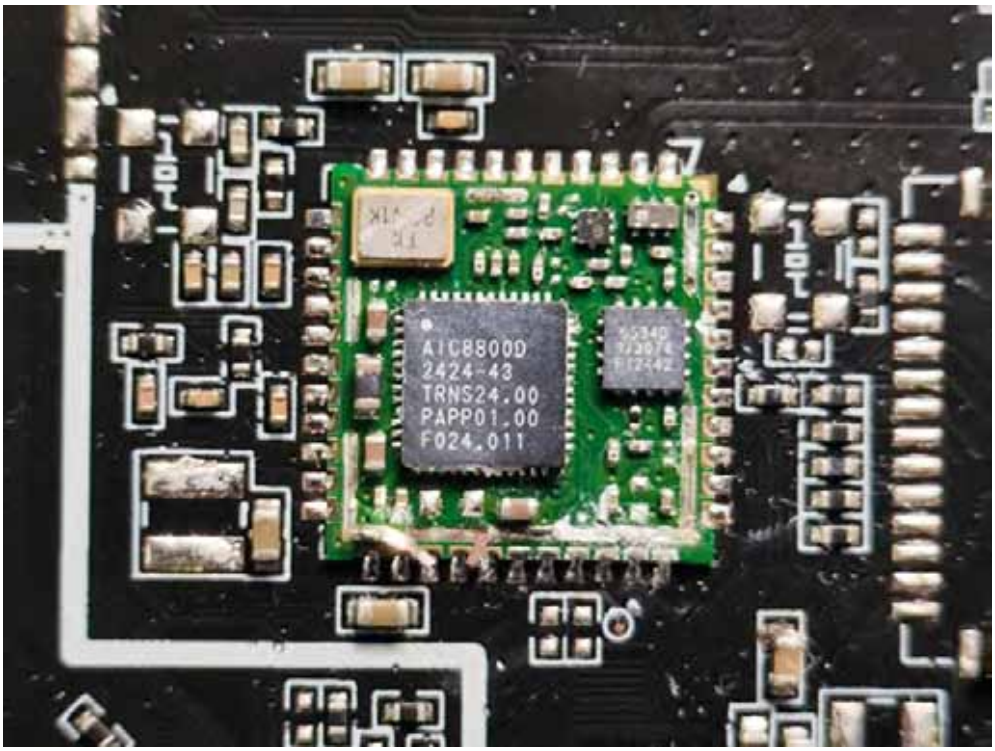

End of Report

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