

TEST REPORT

Report No.: BCTC2503065471E

Applicant: Shenzhen Shenan Yangguang Electronics Co.,Ltd.

Product Name: Power Failure Alarm

Test Model: L8DW-US

Tested Date: 2025-03-14 to 2025-03-28

Issued Date: 2025-03-28

Shenzhen BCTC Testing Co., Ltd.



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FCC ID:2AR3P-L8DWUS

Product Name: Power Failure Alarm

Trademark: N/A

L8DW-US

Model/Type reference: L5D-US, L5DW-US, L6D-US, L6DW-US, L7DW-US, L7DW-US,

L8D-US(L9D....L20D), (L9DW....L20DW)

Prepared For: Shenzhen Shenan Yangguang Electronics Co.,Ltd.

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Manufacturer: Shenzhen Shenan Yangguang Electronics Co.,Ltd.

Address: West of 4th Floor, Building 9, No. 18, Makan Road, Xili, Nanshan District,

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng,

Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2025-03-14

Sample tested Date: 2025-03-14 to 2025-03-28

Issue Date: 2025-03-28

Report No.: BCTC2503065471E

Test Standards: FCC Part15.247
ANSI C63.10-2013

Test Results: PASS

Remark: This is WIFI-2.4GHz band radio test report.

Tested by:

Tang Changyu/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A means not applicable)

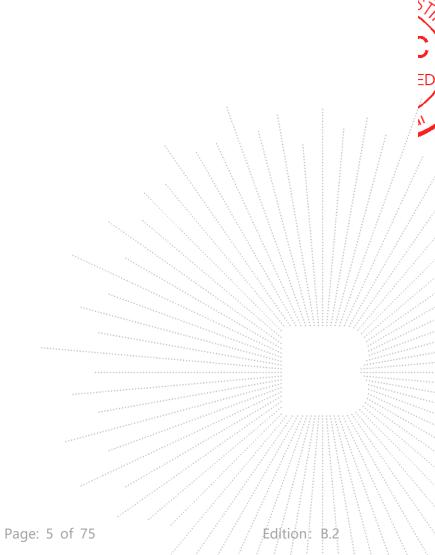
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Version 1.

Report No.	Issue Date	Description	Approved
BCTC2503065471E	2025-03-28	Original	Valid



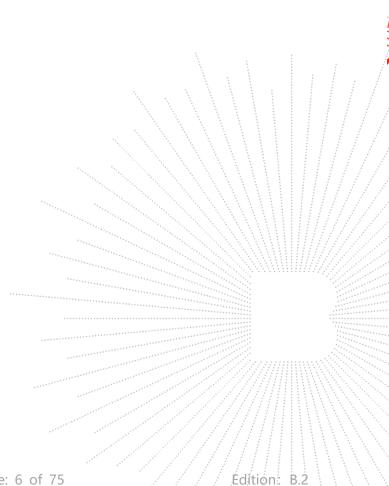
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2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS



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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

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4. Product Information And Test Setup

4.1 Product Information

L8DW-US

Model/Type reference: L5D-US, L5DW-US, L6D-US, L6DW-US, L7D-US, L7D-US, L8D-US(L9D....L20D),

(L9DW....L20DW)

Model differences:

All the model are the same circuit and RF module, except model names and

appearance of the color.

Hardware Version: N/A
Software Version: N/A

Operation Frequency: 802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz

802.11b:11/5.5/2/1 Mbps

Bit Rate of Transmitter 802.11g:54/48/36/24/18/12/9/6Mbps

802.11n Up to 150Mbps

Type of Modulation: OFDM/DSSS

Number Of Channel 802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH

Antenna installation: Internal antenna

0.04 dBi Remark:

Remark.

Antenna Gain:

The antenna gain of the product comes from the antenna report provided by the

customer, and the test data is affected by the customer information.

☐ The antenna gain of the product is provided by the customer, and the test data

is affected by the customer information.

Input: AC 120V

Ratings: Output: AC 120V

Battery: DC 3.7V

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Power Failure Alarm	N/A	L8DW-US	N/A	EUT
E-2	Lamp bulb	N/A	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	OM	DC cable unshielded

Notes:

 All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 Channel List

Channel List for 802.11b/g/n(20)							
Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)							
01	2412	02	2417	03	2422		
04	2427	05	2432	06	2437		
07	2442	08	2447	09	2452		
10	2457	11	2462				

Channel List for 802.11n(40)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
03	2422	04	2427	05	2432	
06	2437	07	2442	08	2447	
09	2452					

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description		
Mode 1	802.11b CH1/ CH6/ CH11		
Mode 2	802.11g CH1/ CH6/ CH11		
Mode 3	802.11n20 CH1/ CH6/ CH11		
Mode 4	802.11n40 CH3/ CH6/ CH9		
Mode 5	WIFI Linking		

Note: This prototype does not support RU mode.

Note:

(1) The measurements are performed at all Bit Rate of Transmiter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	Wifi Test Tool				
Frequency	2412 MHz	2437 MHz 2462 MHz			
Parameters	DEF	DEF			
Frequency	2422MHz	2437MHz 2452MHz			
Parameters	DEF	DEF DEF//////			

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212

ISED Registered No.: 23583 ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test							
Equipment	Equipment Manufacturer Model# Serial# Last Cal. Next Cal.						
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025		
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025		
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\		
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025		

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Çal.	
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025	
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	
Radio frequency control box	MAIWEI	MW100-RFC B	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	T. Company		
Software	MAIWEI	MTS 8310			\ \\	

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Radiated Emissions Test (966 Chamber01)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026	
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025	
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 16, 2024	May 15, 2025	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025	
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	FA-03A2 RE	\	\	

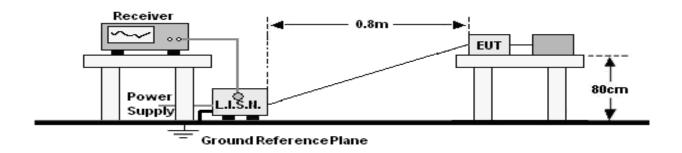
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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

EDEOLIENCY (MILL-)	Limit	(dBuV)
FREQUENCY (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB \\
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

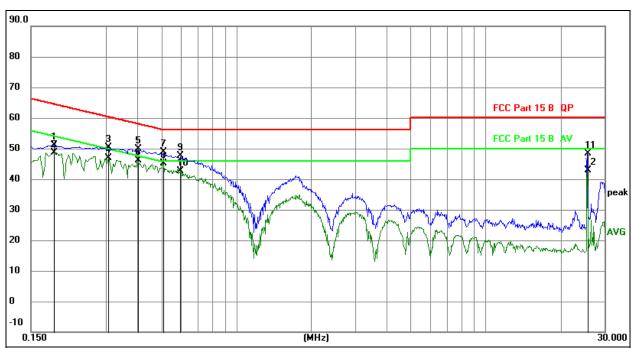
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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6.5 Test Result

Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 5	Test Voltage :	AC 120V/60Hz



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement=Reading Level+ Correct Factor

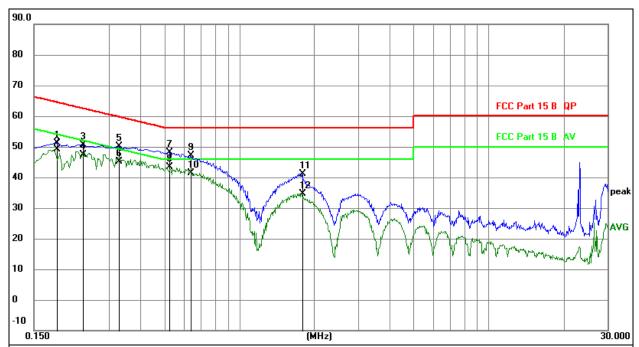
- 4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1853	30.99	20.07	51.06	64.24	-13.18	QP
2		0.1853	28.65	20.07	48.72	54.24	-5.52	AVG
3		0.3067	30.33	20.07	50.40	60.06	-9.66	QP
4		0.3067	26.77	20.07	46.84	50.06	-3.22	AVG
5		0.4019	29.91	20.08	49.99	57.81	-7.82	QP
6		0.4019	26.06	20.08	46.14	47.81	-1.67	AVG
7		0.5074	28.69	20.08	48.77	56.00	-7.23	QP
8	*	0.5074	25.12	20.08	45.20	46.00	-0.80	AVG
9		0.5979	27.66	20.08	47.74	56.00	-8.26	QP
10		0.5979	22.50	20.08	42.58	46.00	-3.42	AVG
11	:	25.5912	27.99	20.30	48.29	60.00	-11.71	QP
12		25.5912	22.66	20.30	42.96	50.00	-7.04	AVG

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Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 5	Test Voltage :	AC 120V/60Hz



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement=Reading Level+ Correct Factor
 Over=Measurement-Limit

4. Over=	ivieasure	ment-Limit						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∀	dBuV	dB	Detector
1		0.1860	31.12	20.07	51.19	64.21	-13.02	QP
2		0.1860	29.11	20.07	49.18	54.21	-5.03	AVG
3		0.2355	30.55	20.07	50.62	62.25	-11.63	QP
4		0.2355	27.34	20.07	47.41	52.25	-4.84	AVG
5		0.3300	30.07	20.07	50.14	59.45	-9.31	QP
6		0.3300	25.09	20.07	45.16	49.45	-4.29	AVG
7		0.5235	28.12	20.08	48.20	56.00	-7.80	QP
8	*	0.5235	23.27	20.08	43.35	46.00	-2.65	AVG
9		0.6405	27.04	20.09	47.13	56.00	-8.87	QP
10		0.6405	21.25	20.09	41.34	46.00	-4.66	AVG
11		1.7835	20.99	20.10	41.09	56.00	-14.91	QP
12		1.7835	14.65	20.10	34.75	46.00	-11.25	AVG

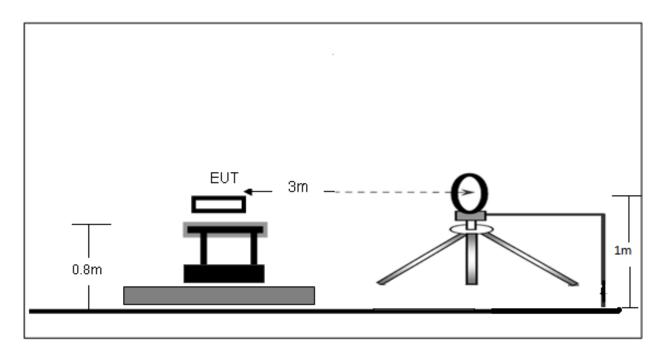
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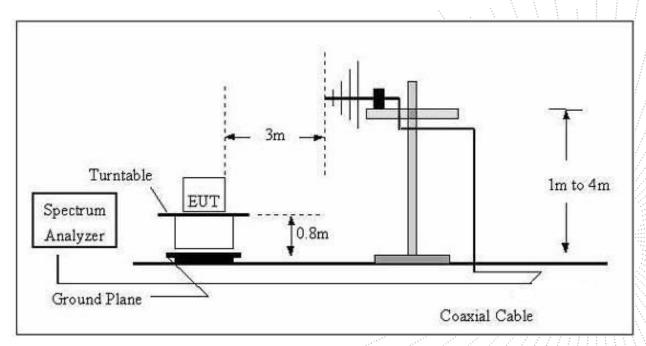
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



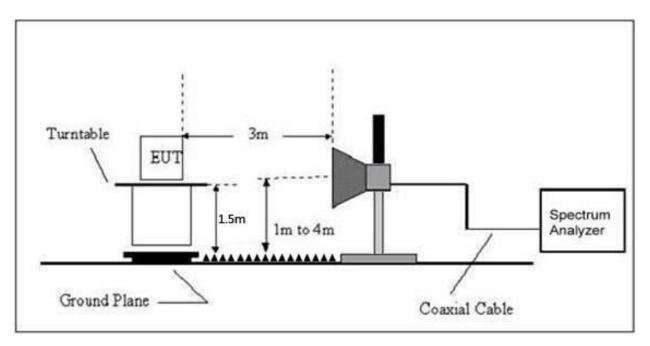
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(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MILL-)	Limit (dBu)	//m) (at 3M)
FREQUENCY (MHz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test Procedure

Receiver Parameter	Setting	
Attenuation	Auto	
9kHz~150kHz	RBW 200Hz for QP	
150kHz~30MHz	RBW 9kHz for QP	
30MHz~1000MHz	RBW 120kHz for QP	

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	23.8℃	Relative Humidity:	42%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 5	Polarization :	-

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
			2	PASS
			——————————————————————————————————————	PASS

Note:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

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Between 30MHz - 1GHz

Temperature:	25.7℃	Relative Humidity:	55%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage :	AC 120V/60Hz



Remark:

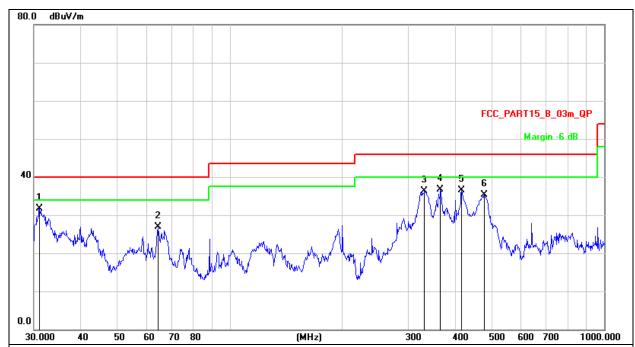
- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		115.3205	33.93	-17.00	16.93	43.50	-26.57	QP
2		292.0583	48.82	-13.41	35.41	46.00	-10.59	QP
3		332.5187	51.06	-12.10	38.96	46.00	-7.04	QP
4	*	365.5391	54.02	-11.28	42.74	46.00	-3.26	QP
5		416.1791	43.48	-10.52	32.96	46.00	-13.04	QP
6		729.3583	32.36	-5.29	27.07	46.00	-18.93	QP

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Temperature:	25.7℃	Relative Humidity:	55%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Test Voltage:	AC 120V/60Hz



Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	31.0706	48.17	-16.44	31.73	40.00	-8.27	QP
2		64.4331	43.37	-16.47	26.90	40.00	-13.10	QP
3	3	331.3546	48.52	-12.14	36.38	46.00	-9.62	QP
4	3	365.5391	47.95	-11.28	36.67	46.00	-9.33	QP
5	4	116.1791	47.05	-10.52	36.53	46.00	-9.47	QP
6	4	178.8456	44.43	-9.14	35.29	46.00	-10.71	QP

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Between 1GHz – 25GHz **802.11b**

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	Low channel:2412MHz								
V	4824.00	68.75	-19.95	48.80	74.00	-25.20	PK		
V	4824.00	58.73	-19.95	38.78	54.00	-15.22	AV		
V	7236.00	68.08	-14.14	53.94	74.00	-20.06	PK		
V	7236.00	56.00	-14.14	41.86	54.00	-12.14	AV		
Н	4824.00	65.30	-19.95	45.35	74.00	-28.65	PK		
Н	4824.00	54.02	-19.95	34.07	54.00	-19.93	AV		
Н	7236.00	67.40	-14.14	53.26	74.00	-20.74	PK		
Н	7236.00	57.43	-14.14	43.29	54.00	-10.71	AV		
			Middle chani	nel:2437MHz					
V	4874.00	68.39	-19.85	48.54	74.00	-25.46	PK		
V	4874.00	55.54	-19.85	35.69	54.00	-18.31	AV		
V	7311.00	67.15	-13.93	53.22	74.00	-20.78	PK		
V	7311.00	55.85	-13.93	41.92	54.00	-12.08	AV		
Н	4874.00	64.81	-19.85	44.96	74.00	-29.04	PK		
Н	4874.00	56.39	-19.85	36.54	54.00	-17.46	AV		
Н	7311.00	66.65	-13.93	52.72	74.00	-21.28	PK		
Н	7311.00	59.78	-13.93	45.85	54.00	-8.15	AV		
			High chann	el:2462MHz					
V	4924.00	64.53	-19.75	44.78	74.00	-29.22	PK		
V	4924.00	54.20	-19.75	34.45	54.00	-19.55	AV		
V	7386.00	69.30	-13.72	55.58	74.00	-18.42	PK		
V	7386.00	54.21	-13.72	40.49	54.00	-13.51	AV		
Н	4924.00	68.13	-19.75	48.38	74.00	-25.62	PK		
Н	4924.00	55.81	-19.75	36.06	54.00	-17.94	AV		
Н	7386.00	64.92	-13.72	51.20	74.00	-22.80	PK		
Н	7386.00	58.86	-13.72	45.14	54.00	-8.86	AV		

Remark:

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1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier, Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

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802.11g

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector			
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type			
	Low channel:2412MHz									
V	4824.00	64.28	-19.95	44.33	74.00	-29.67	PK			
V	4824.00	55.86	-19.95	35.91	54.00	-18.09	AV			
V	7236.00	64.17	-14.14	50.03	74.00	-23.97	PK			
V	7236.00	59.66	-14.14	45.52	54.00	-8.48	AV			
Н	4824.00	67.78	-19.95	47.83	74.00	-26.17	PK			
Н	4824.00	55.03	-19.95	35.08	54.00	-18.92	AV			
Н	7236.00	68.18	-14.14	54.04	74.00	-19.96	PK			
Н	7236.00	58.84	-14.14	44.70	54.00	-9.30	AV			
			Middle chan	nel:2437MHz						
V	4874.00	64.46	-19.85	44.61	74.00	-29.39	PK			
V	4874.00	57.28	-19.85	37.43	54.00	-16.57	AV			
V	7311.00	67.78	-13.93	53.85	74.00	-20.15	PK			
V	7311.00	54.93	-13.93	41.00	54.00	-13.00	AV			
Η	4874.00	68.20	-19.85	48.35	74.00	-25.65	PK			
Η	4874.00	55.96	-19.85	36.11	54.00	-17.89	AV			
Н	7311.00	69.64	-13.93	55.71	74.00	-18.29	PK			
Н	7311.00	57.11	-13.93	43.18	54.00	-10.82	AV			
			High chann	el:2462MHz						
V	4924.00	68.76	-19.75	49.01	74.00	-24.99	PK			
V	4924.00	57.98	-19.75	38.23	54.00	-15.77	AV			
V	7386.00	65.06	-13.72	51.34	74,00	-22.66	PK			
V	7386.00	55.74	-13.72	42.02	54.00	-11.98	AV			
Н	4924.00	68.69	-19.75	48.94	74.00	-25.06	PK			
Н	4924.00	56.39	-19.75	36.64	54.00	-17.36	AV			
Н	7386.00	66.76	-13.72	53.04	74.00	-20.96	PK			
Н	7386.00	55.12	-13.72	41.40	54.00	-12.60	AV			

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

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802.11n20

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	Low channel:2412MHz								
V	4824.00	68.99	-19.95	49.04	74.00	-24.96	PK		
V	4824.00	55.74	-19.95	35.79	54.00	-18.21	AV		
V	7236.00	69.43	-14.14	55.29	74.00	-18.71	PK		
V	7236.00	55.91	-14.14	41.77	54.00	-12.23	AV		
Н	4824.00	65.58	-19.95	45.63	74.00	-28.37	PK		
Н	4824.00	59.75	-19.95	39.80	54.00	-14.20	AV		
Н	7236.00	69.81	-14.14	55.67	74.00	-18.33	PK		
Н	7236.00	58.14	-14.14	44.00	54.00	-10.00	AV		
			Middle chani	nel:2437MHz					
V	4874.00	68.15	-19.85	48.30	74.00	-25.70	PK		
V	4874.00	55.90	-19.85	36.05	54.00	-17.95	AV		
V	7311.00	67.70	-13.93	53.77	74.00	-20.23	PK		
V	7311.00	58.44	-13.93	44.51	54.00	-9.49	AV		
Н	4874.00	64.97	-19.85	45.12	74.00	-28.88	PK		
Н	4874.00	55.73	-19.85	35.88	54.00	-18.12	AV		
Н	7311.00	66.77	-13.93	52.84	74.00	-21.16	PK		
Н	7311.00	56.09	-13.93	42.16	54.00	-11.84	AV		
			High chann	el:2462MHz					
V	4924.00	68.59	-19.75	48.84	74.00	-25.16	PK		
V	4924.00	57.37	-19.75	37.62	54.00	-16.38	AV		
V	7386.00	69.96	-13.72	56.24	74,00	-17.76	PK		
V	7386.00	59.80	-13.72	46.08	54.00	-7.92	AV		
Н	4924.00	65.41	-19.75	45.66	74.00	-28.34	PK		
Н	4924.00	59.67	-19.75	39.92	54.00	-14.08	AV		
Н	7386.00	64.05	-13.72	50.33	74.00	-23.67	PK		
Н	7386.00	56.97	-13.72	43.25	54.00	-10.75	AV		

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier, Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

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802.11n40

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector			
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре			
	Low channel:2422MHz									
V	4844.00	69.11	-19.91	49.20	74.00	-24.80	PK			
V	4844.00	54.77	-19.91	34.86	54.00	-19.14	AV			
V	7266.00	69.46	-14.06	55.40	74.00	-18.60	PK			
V	7266.00	56.66	-14.06	42.60	54.00	-11.40	AV			
Н	4844.00	65.30	-19.91	45.39	74.00	-28.61	PK			
Н	4844.00	54.33	-19.91	34.42	54.00	-19.58	AV			
Η	7266.00	67.52	-14.06	53.46	74.00	-20.54	PK			
Н	7266.00	59.92	-14.06	45.86	54.00	-8.14	AV			
			Middle chan	nel:2437MHz						
V	4874.00	65.97	-19.85	46.12	74.00	-27.88	PK			
V	4874.00	54.76	-19.85	34.91	54.00	-19.09	AV			
V	7311.00	69.26	-13.93	55.33	74.00	-18.67	PK			
V	7311.00	58.98	-13.93	45.05	54.00	-8.95	AV			
Η	4874.00	69.57	-19.85	49.72	74.00	-24.28	PK			
Η	4874.00	58.05	-19.85	38.20	54.00	-15.80	AV			
Η	7311.00	69.75	-13.93	55.82	74.00	-18.18	PK			
Η	7311.00	57.51	-13.93	43.58	54.00	-10.42	AV			
			High chann	el:2452MHz						
V	4904.00	67.28	-19.79	47.49	74.00	-26.51	PK			
V	4904.00	59.55	-19.79	39.76	54.00	-14.24	AV			
V	7356.00	66.30	-13.80	52.50	74,00	-21.50	PK			
V	7356.00	57.12	-13.80	43.32	54.00	-10.68	AV			
Н	4904.00	69.17	-19.79	49.38	74.00	-24.62	PK			
Н	4904.00	56.33	-19.79	36.54	54.00	-17.46	AV			
Н	7356.00	65.32	-13.80	51.52	74.00	-22.48	PK			
Н	7356.00	58.20	-13.80	44.40	54.00	-9.60	AV			

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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

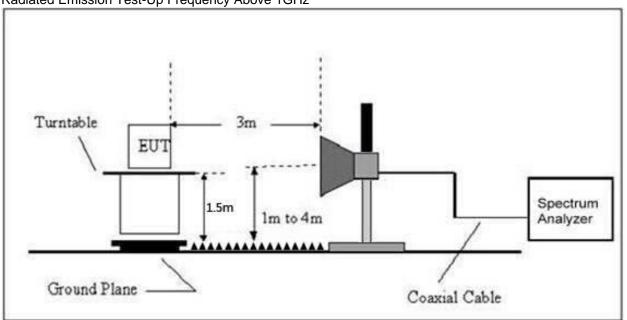
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8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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8.5 Test Result

	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)		sure- BuV/m)	Over	Result
	, ,	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK	
Low Channel 2412MHz									
	Н	2390.00	69.50	-25.43	44.07	74.00	54.00	-29.93	PASS
	Н	2400.00	70.42	-25.40	45.02	74.00	54.00	-28.98	PASS
	V	2390.00	76.76	-25.43	51.33	74.00	54.00	-22.67	PASS
802.11b	V	2400.00	77.88	-25.40	52.48	74.00	54.00	-21.52	PASS
002.110	High Channel 2462MHz								
	Н	2483.50	77.86	-25.15	52.71	74.00	54.00	-21.29	PASS
	Н	2500.00	75.88	-25.10	50.78	74.00	54.00	-23.22	PASS
	V	2483.50	75.74	-25.15	50.59	74.00	54.00	-23.41	PASS
	V	2500.00	73.28	-25.10	48.18	74.00	54.00	-25.82	PASS
				Low Cha	annel 2412M	Hz			
	Н	2390.00	72.67	-25.43	47.24	74.00	54.00	-26.76	PASS
	Н	2400.00	70.06	-25.40	44.66	74.00	54.00	-29.34	PASS
	V	2390.00	75.93	-25.43	50.50	74.00	54.00	-23.50	PASS
000 44 ~	V	2400.00	77.20	-25.40	51.80	74.00	54.00	-22.20	PASS
802.11g				High Ch	annel 2462M	Hz			
	Н	2483.50	75.32	-25.15	50.17	74.00	54.00	-23.83	PASS
	Н	2500.00	74.73	-25.10	49.63	74.00	54.00	-24.37	PASS
	V	2483.50	71.89	-25.15	46.74	74.00	54.00	-27.26	PASS
	V	2500.00	69.82	-25.10	44.72	74.00	54.00	-29.28	PASS

Remark:

1. Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Measure-		Over	Result
	, ,	(MHz)	(dBuV/m)	(dB)	PK	PK	AV	PK	
	Low Channel 2412MHz								
	Н	2390.00	70.52	-25.43	45.09	74.00	54.00	-28.91	PASS
	Н	2400.00	71.57	-25.40	46.17	74.00	54.00	-27.83	PASS
	V	2390.00	72.98	-25.43	47.55	74.00	54.00	-26.45	PASS
802.11	V	2400.00	77.01	-25.40	51.61	74.00	54.00	-22.39	PASS
n20				High Ch	annel 2462M	lHz			
	Н	2483.50	77.80	-25.15	52.65	74.00	54.00	-21.35	PASS
	Н	2500.00	71.94	-25.10	46.84	74.00	54.00	-27.16	PASS
	V	2483.50	72.92	-25.15	47.77	74.00	54.00	-26.23	PASS
	V	2500.00	71.81	-25.10	46.71	74.00	54.00	-27.29	PASS
				Low Cha	annel 2422M	Hz			
	Н	2390.00	70.55	-25.43	45.12	74.00	54.00	-28.88	PASS
	Н	2400.00	71.20	-25.40	45.80	74.00	54.00	-28.20	PASS
	V	2390.00	76.12	-25.43	50.69	74.00	54.00	-23.31	PASS
802.11	V	2400.00	73.46	-25.40	48.06	74.00	54.00	-25.94	PASS
n40	High Channel 2452MHz								
	Н	2483.50	73.19	-25.15	48.04	74.00	54.00	-25.96	PASS
	Н	2500.00	73.77	-25.10	48.67	74.00	54.00	-25.33	PASS
	V	2483.50	75.33	-25.15	50.18	74.00	54.00	-23.82	PASS
	V	2500.00	73.14	-25.10	48.04	74.00	54.00	-25.96	PASS

Remark:

1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement – Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

9.2 Limit

FCC Part15 (15.247) , Subpart C						
Section	Frequency Range (MHz)	Result				
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of	f 4.6 Unless	otherwise	a special	operating
condition is specified in the follows during the testing.	***************************************	***************************************		
Note: Power Spectral Density(dBm)=Reading+Cable Loss		***************************************		

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9.5 Test Result

Temperature:	26°C	Relative Humidity:	54%
Test Voltage:	DC 3.7V	Remark:	N/A

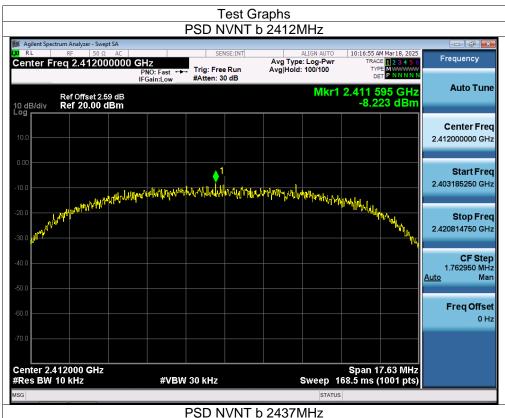
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/10kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-8.22	-13.45	8	Pass
NVNT	b	2437	-8.49	-13.72	8	Pass
NVNT	b	2462	-9.01	-14.24	8	Pass
NVNT	g	2412	-10.18	-15.41	8	Pass
NVNT	g	2437	-10.57	-15.8	8	Pass
NVNT	g	2462	-11.02	-16.25	8	Pass
NVNT	n20	2412	-12.51	-17.74	8	Pass
NVNT	n20	2437	-12.39	-17.62	8	Pass
NVNT	n20	2462	-12.69	-17.92	8	Pass
NVNT	n40	2422	-15.72	-20.95	8	Pass
NVNT	n40	2437	-15.43	-20.66	8	Pass
NVNT	n40	2452	-16.08	-21.31	8	Pass

Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23
Power Spectral Density (dBm/3kHz)= Power Spectral Density (dBm/10kHz)-5.23

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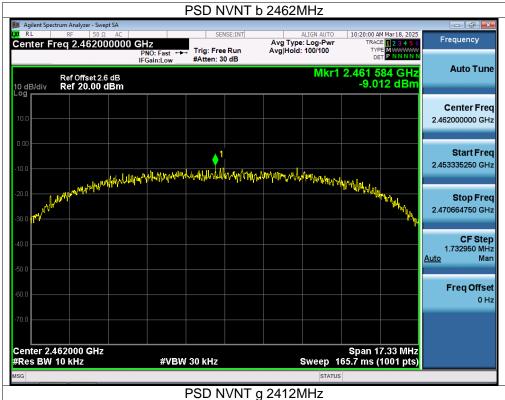






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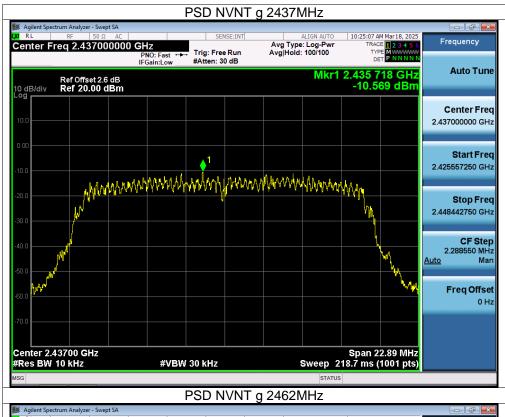






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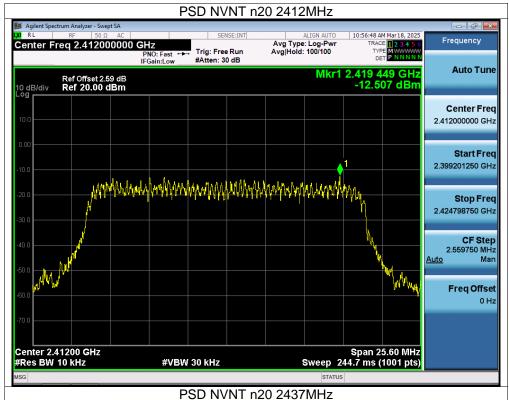
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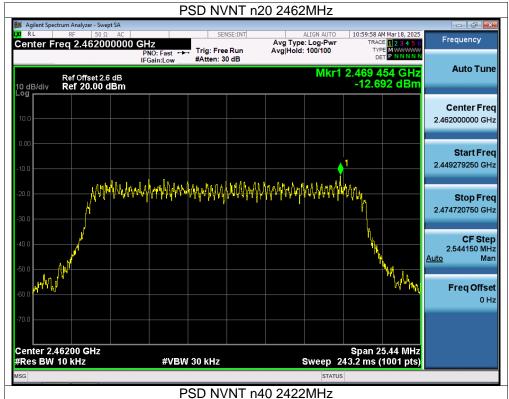
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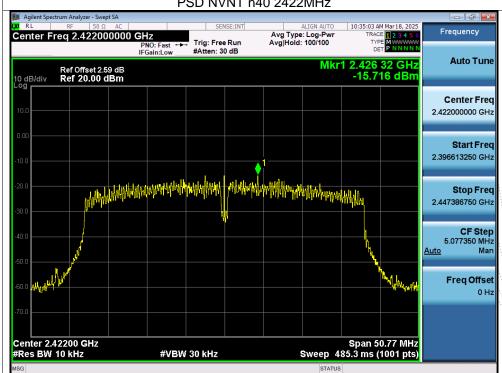




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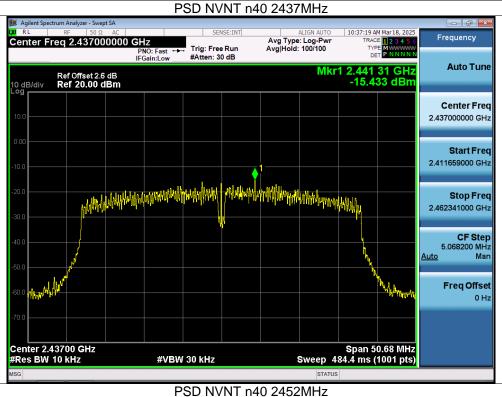


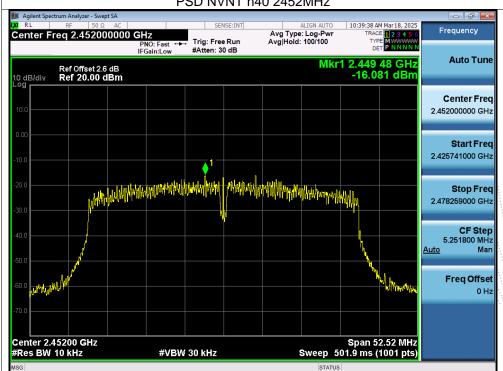




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10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

10.3 Test Procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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10.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Test Voltage:	DC 3.7V	Remark:	N/A

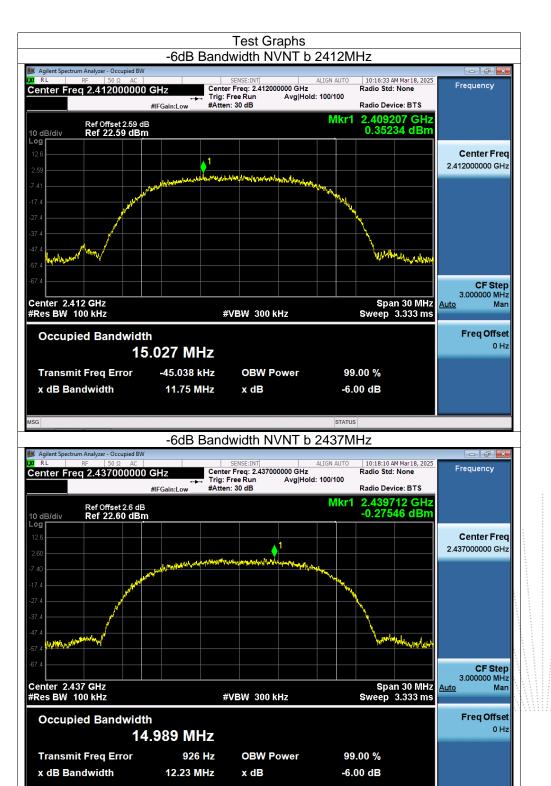
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	11.753	0.5	Pass
NVNT	b	2437	12.227	0.5	Pass
NVNT	b	2462	11.553	0.5	Pass
NVNT	g	2412	15.034	0.5	Pass
NVNT	g	2437	15.257	0.5	Pass
NVNT	g	2462	16.062	0.5	Pass
NVNT	n20	2412	17.065	0.5	Pass
NVNT	n20	2437	17.223	0.5	Pass
NVNT	n20	2462	16.961	0.5	Pass
NVNT	n40	2422	33.849	0.5	Pass
NVNT	n40	2437	33.788	0.5	Pass
NVNT	n40	2452	35.012	0.5	Pass





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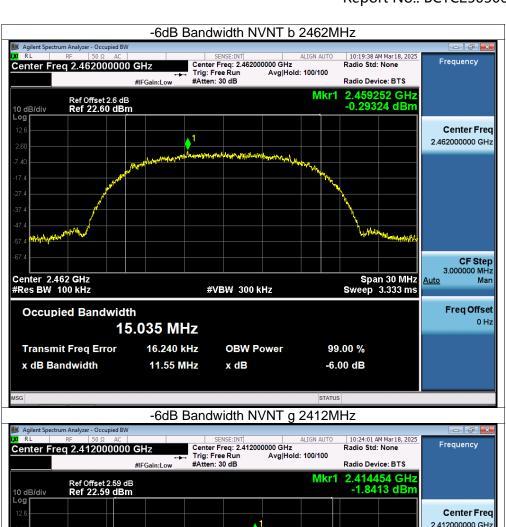


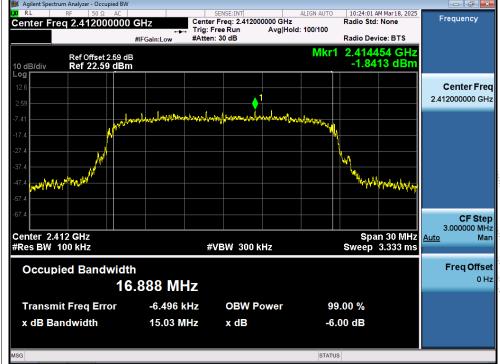


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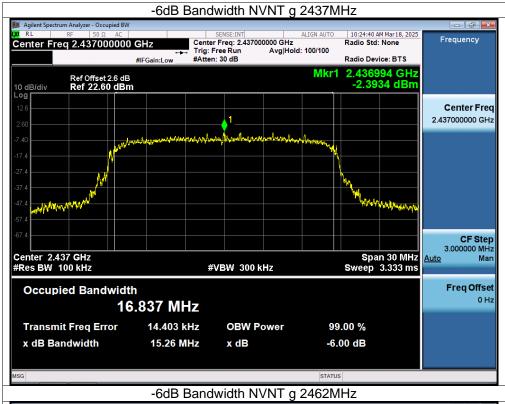
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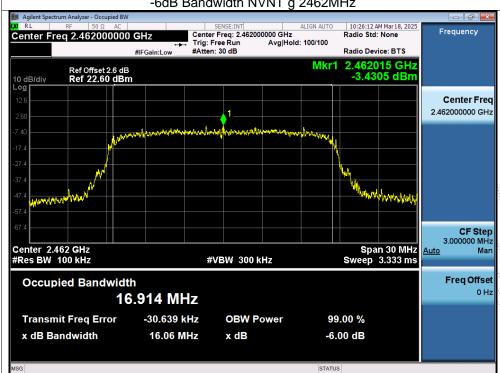




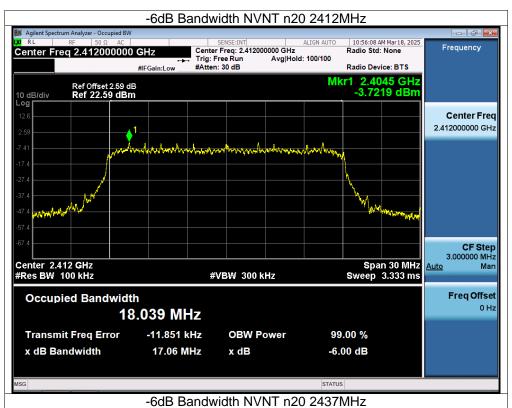
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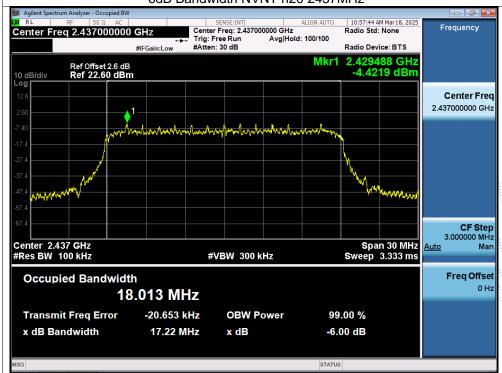






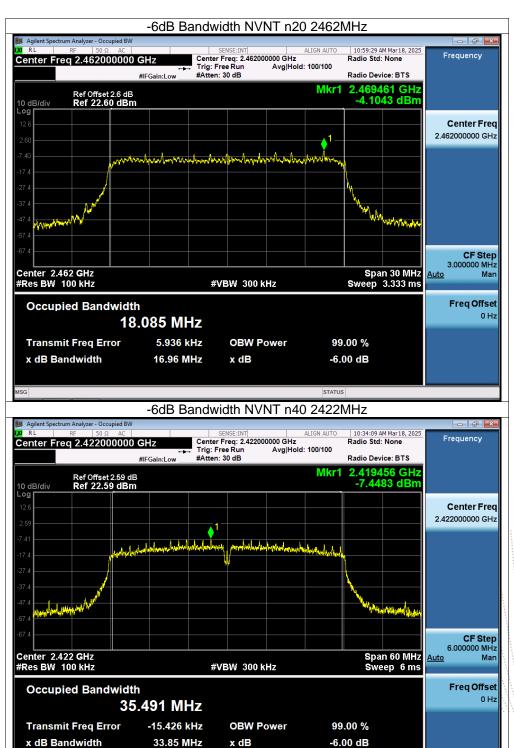
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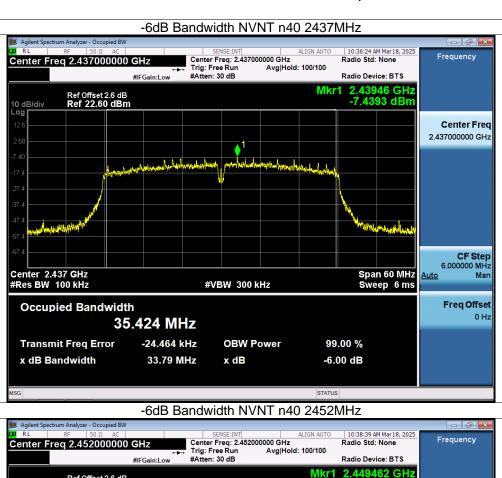


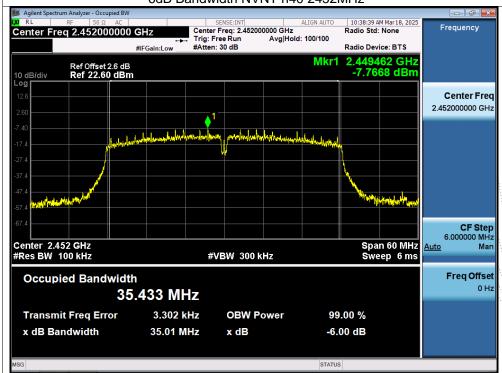
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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup

EUT POWER METER

11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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11.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Test Voltage:	DC 3.7V	Remark:	N/A

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	12.76	30	Pass
NVNT	b	2437	12.31	30	Pass
NVNT	b	2462	11.81	30	Pass
NVNT	g	2412	11.97	30	Pass
NVNT	g	2437	11.56	30	Pass
NVNT	g	2462	11.23	30	Pass
NVNT	n20	2412	9.24	30	Pass
NVNT	n20	2437	8.85	30	Pass
NVNT	n20	2462	8.51	30	Pass
NVNT	n40	2422	8.58	30	Pass
NVNT	n40	2437	8.41	30	Pass
NVNT	n40	2452	8.07	30	Pass



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12. 100 KHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 Limit

In any 100 kHz 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 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize.

12.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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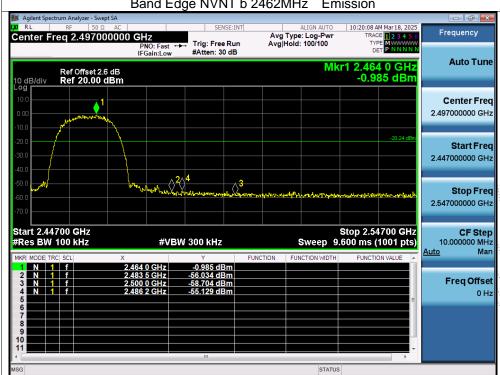
12.5 Test Result



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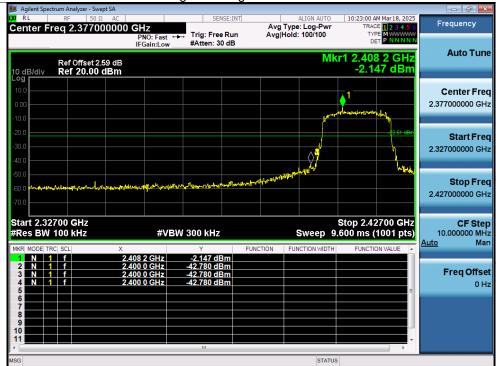




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