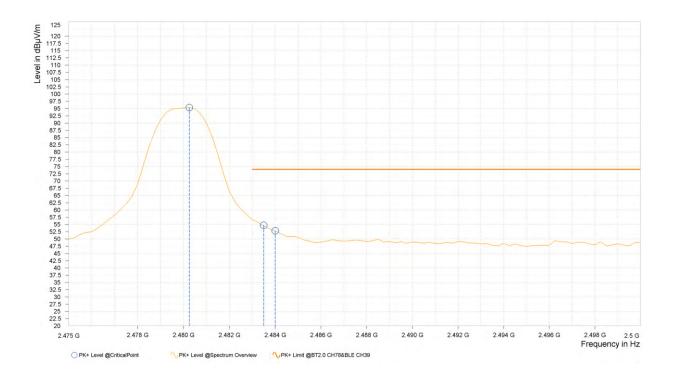


Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	2,480.250	95.34			7.36	V	<mark>54</mark> .6	2.00
6	2,483.500	54.73	74.00	19.27	7.36	V	1	2.00
6	2,484.000	52.83	74.00	21.17	7.36	V	1	2.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M



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Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	2,480.000	75.52			7.36	V	3.9	2.00
6	2,483.500	35.33	54.00	18.67	7.36	V	146.3	1.00
6	2,487.500	36.09	54.00	17.91	7.36	V	146.3	1.00
U125 120 120 120 120 120 120 120 120 125 120 115 110 107.5 1100 97.5 92.5 92.5 92.5 92.5 92.5 92.5 92.5 92			2482 G 2464 G	246.6		24926 2494	2496.6	2498 250

REMARKS:

2.475 G

2.478 G

O AVG Level @CriticalPoint

2.480 G

2.482 G

AVG Level @Spectrum Overview

2.484 G

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value–Emission level.

2.486 G

∿AVG Limit @BT2.0 CH78&BLE CH39

2.490 G

2.488 G

2.492 G

2.494 G

2.496 G

2.498 G 2.5 G Frequency in Hz

2. 2480MHz: Fundamental frequency.



3.3 6 dB BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
EMI Test	R&S	ESW 44	101973	Eab 25 22	Eab 24 24	
Receiver	Ras	E3VV 44	101973	Feb.25,22	Feb.24,24	
Open Switch and	R&S	OSP-B157W	100836	N/A	N/A	
Control Unit	Rao	8	100636	IN/A	IN/A	
Vector Signal	D ⁰ C		100176	Fab 10.00	5ab 15 01	
Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24	
Signal Generator	R&S	SMB100A03	182185	Feb.16,22	Feb.15,24	
Wideband Radio	R&S	CMW500	160200	lup 06 00	lup 25 24	
Communication	Rao	CIVIVVOUU	169399	Jun.26,22	Jun.25,24	
Hygrothermograph	DELI	20210528	SZ015	Sep.06,22	Sep.05,24	
PC	LENOVO	E14	HRSW0024	N/A	N/A	
CABLE	D ⁰ C	J12J103539-		Amm 00,00	Amr 07 04	
CABLE	R&S	00-1	SEP-03-20-069	Apr.28,23	Apr.27,24	
	Dec	J12J103539-		Amm 00,00	Amr 07 04	
CABLE	R&S	00-1	SEP-03-20-070	Apr.28,23	Apr.27,24	
Test Software	EMC32	EMC32	N/A	N/A	N/A	
Temperature Chamber	votsch	VT4002	58566078100050	May.31,22	May.30,24	

NOTE:

- 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 2. The test was performed in RF Oven room.



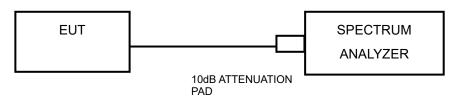
3.3.3 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 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.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.3.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

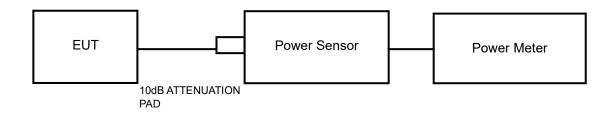


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



- 3.4.7 TEST RESULTS
 - 3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix1/2 Of this test report.



3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

Please Refer to Appendix1/2 Of this test report.

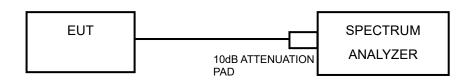


3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

- 1. Set the span to 1.5 times the DTS bandwidth
- 2. Set the RBW = 3 kHz, VBW \ge 3 x RBW, Detector = peak.
- 3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.5.7 TEST RESULTS

Please Refer to Appendix1/2 Of this test report.

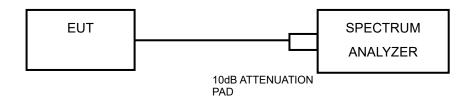


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW \ge 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Set span to encompass the spectrum to be examined
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix1/2 Of this test report.



3.7 ANTENNA REQUIREMENTS

3.7.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.7.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 APPENDIX 1

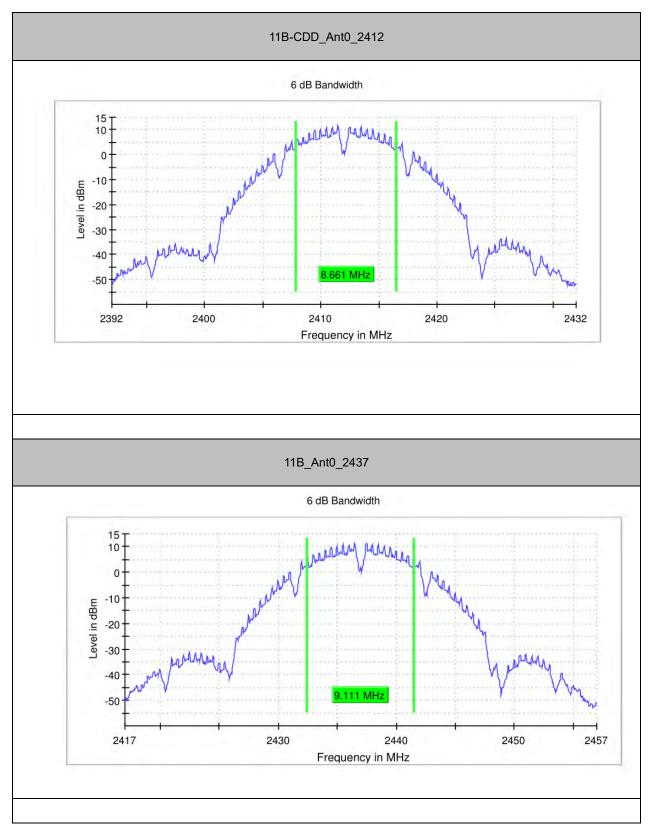
WLAN 2.4G DTS BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant0	2412	8.661	2407.870	2416.531	0.5	PASS
11B	Ant0	2437	9.111	2432.419	2441.530	0.5	PASS
	Ant0	2462	8.661	2457.419	2466.080	0.5	PASS
	Ant0	2412	8.661	2407.870	2416.531	0.5	PASS
11G	Ant0	2437	9.111	2432.419	2441.530	0.5	PASS
	Ant0	2462	8.661	2457.419	2466.080	0.5	PASS
	Ant0	2412	15.569	2404.365	2419.934	0.5	PASS
11N20	Ant0	2437	16.270	2429.165	2445.435	0.5	PASS
	Ant0	2462	15.820	2453.765	2469.585	0.5	PASS
	Ant0	2422	35.222	2404.414	2439.636	0.5	PASS
11N40	Ant0	2437	36.423	2418.814	2455.237	0.5	PASS
	Ant0	2452	35.222	2434.414	2469.636	0.5	PASS



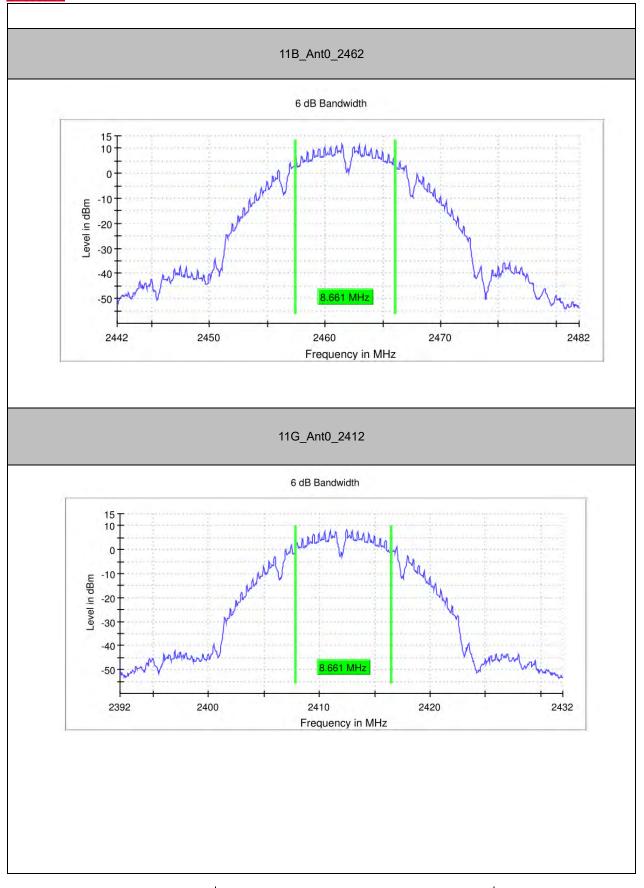
TEST GRAPHS



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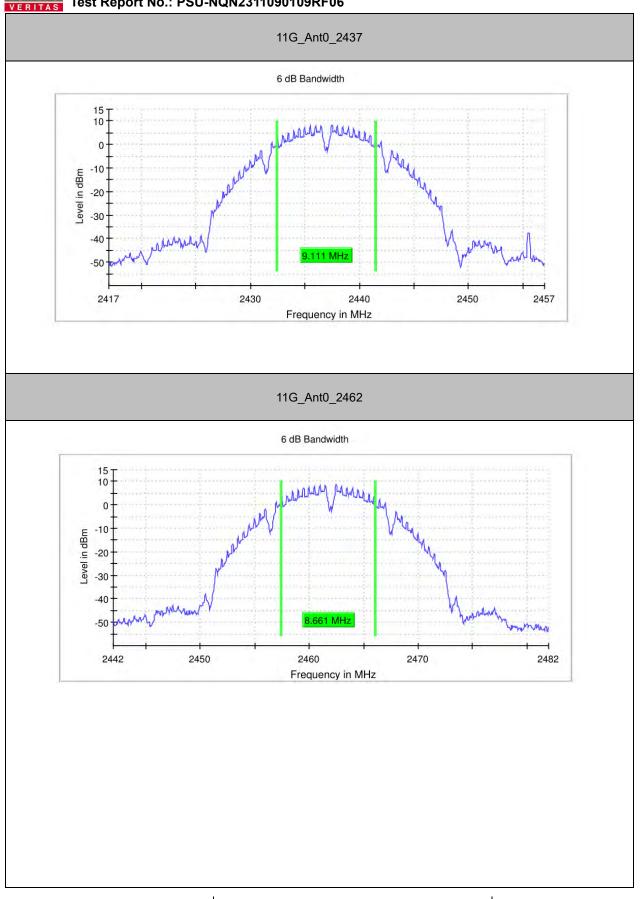
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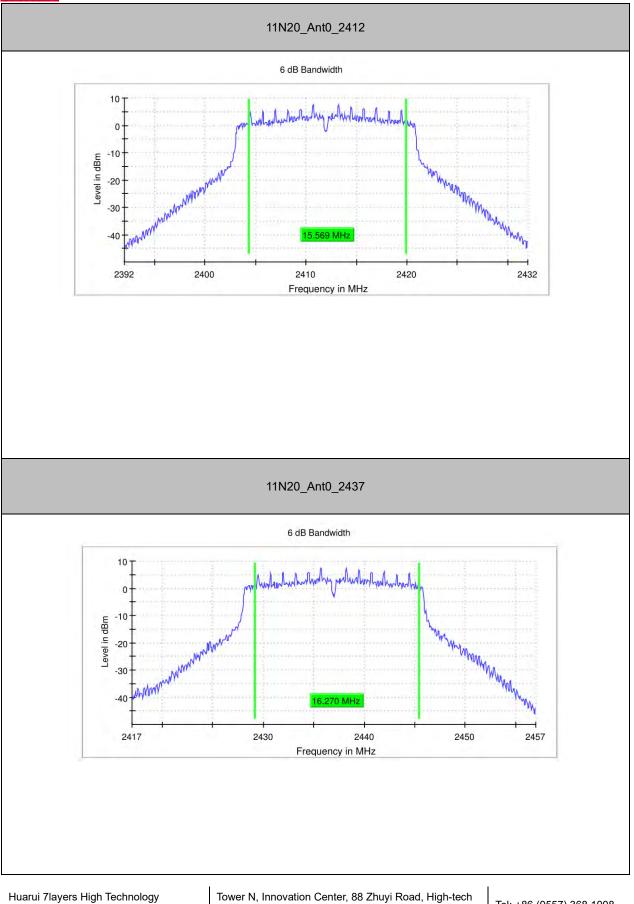


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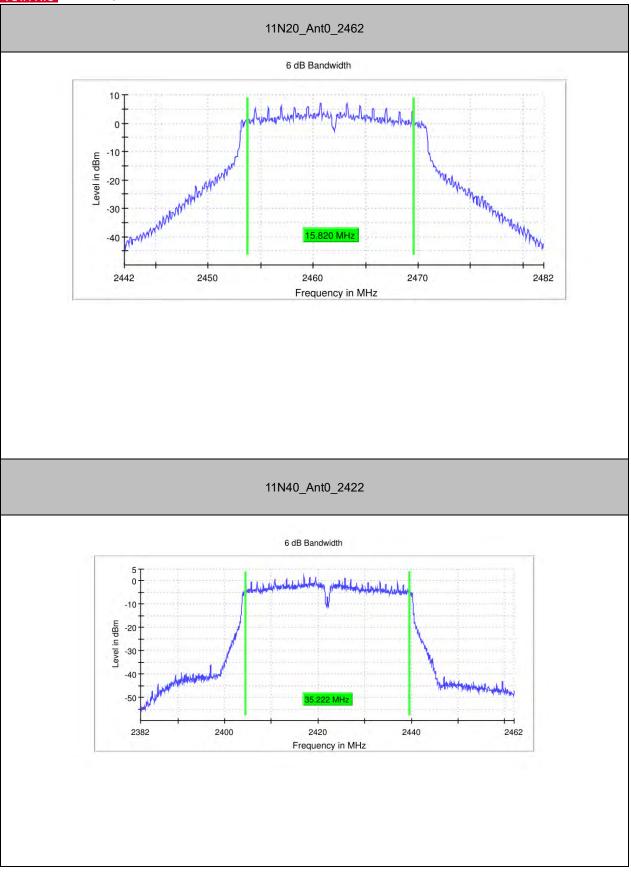


District, Suzhou City, Anhui Province

(Suzhou) Co., Ltd.

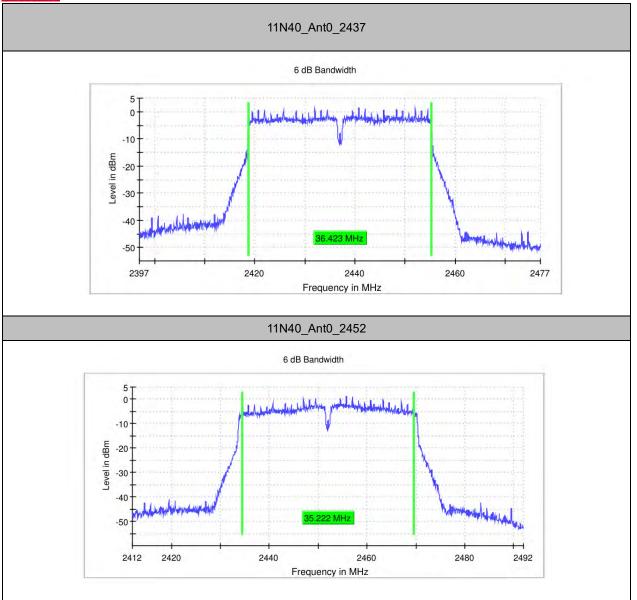
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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMode	Antenna	Frequency [MHz]	Peak power [dBm]	Peak power [mw]	Limit [dBm]	Verdict	Power Setting
	Ant0	2412	21.68	147.23	≤30.00	PASS	17.5
11B	Ant0	2437	22.29	169.43	≤30.00	PASS	17.5
	Ant0	2462	21.96	157.04	≤30.00	PASS	17.5
	Ant0	2412	21.70	147.91	≤30.00	PASS	15
11G	Ant0	2437	23.33	215.28	≤30.00	PASS	16
	Ant0	2462	21.57	143.55	≤30.00	PASS	15
	Ant0	2412	21.60	144.54	≤30.00	PASS	15
11N20-	Ant0	2437	23.31	214.29	≤30.00	PASS	16
	Ant0	2462	21.48	140.60	≤30.00	PASS	15
	Ant0	2412	21.19	131.52	≤30.00	PASS	13
11N40	Ant0	2437	21.91	155.24	≤30.00	PASS	13
	Ant0	2462	21.11	129.12	≤30.00	PASS	13.5

TEST RESULT AVERAGE

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Limit [dBm]	Verdict	Power Setting
11B	Ant0	2412	17.99	/	PASS	17.5
-SISO	Ant0	2437	18.62	/	PASS	17.5
-3130	Ant0	2462	18.25	/	PASS	17.5
110	Ant0	2412	15.57	1	PASS	15
11G -SISO	Ant0	2437	17.06	1	PASS	16
-3130	Ant0	2462	15.38	1	PASS	15
44100	Ant0	2412	15.37	1	PASS	15
11N20	Ant0	2437	16.88	1	PASS	16
-SISO	Ant0	2462	15.20	1	PASS	15

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11N40 -SISO	Ant0	2422	13.52	/	PASS	13
	Ant0	2437	14.08	/	PASS	13
	Ant0	2452	13.29	/	PASS	13.5



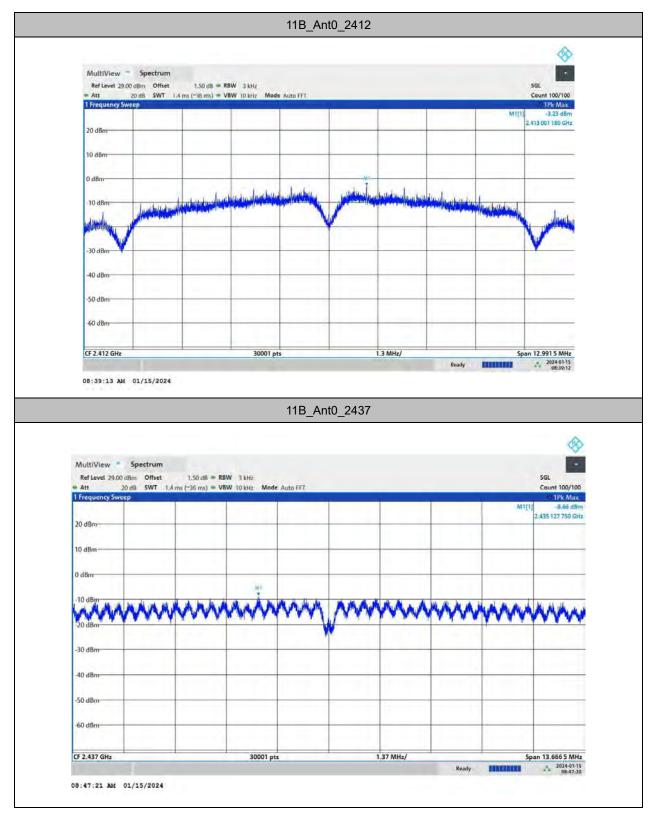
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antonno	Frequency	Result	Limit) (andiat
restinode	Antenna	[MHz]	[dBm/3kHz]	[dBm/3kHz]	Verdict
	Ant0	2412	-3.23	≤8.00	PASS
11B	Ant0	2437	-8.66	≤8.00	PASS
	Ant0	2462	-3.06	≤8.00	PASS
	Ant0	2412	-8.83	≤8.00	PASS
11G	Ant0	2437	-8.66	≤8.00	PASS
	Ant0	2462	-9.48	≤8.00	PASS
	Ant0	2412	-9.22	≤8.00	PASS
11N20	Ant0	2437	-8.89	≤8.00	PASS
	Ant0	2462	-9.89	≤8.00	PASS
	Ant0	2422	-14.50	≤8.00	PASS
11N40	Ant0	2437	-14.97	≤8.00	PASS
	Ant0	2452	-15.10	≤8.00	PASS

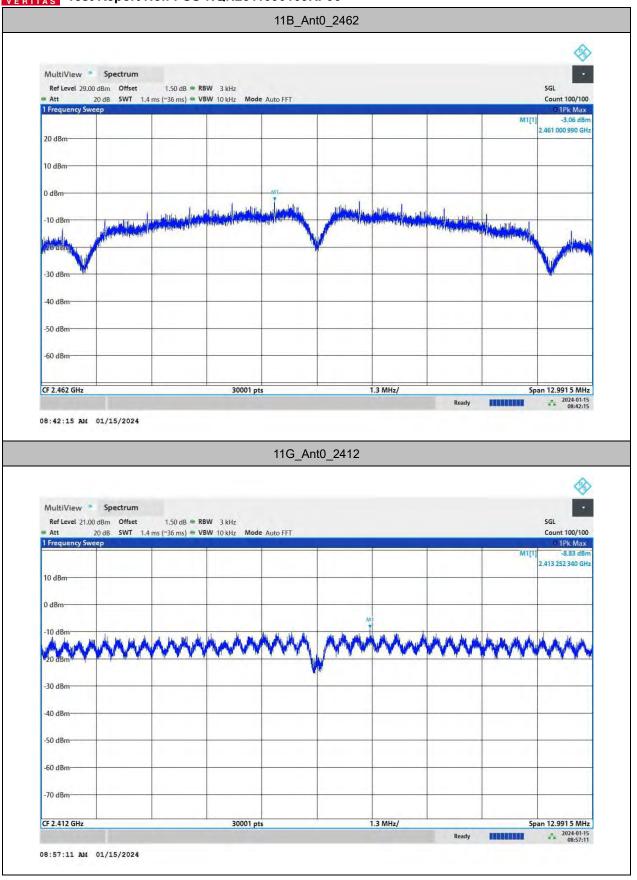


TEST GRAPHS



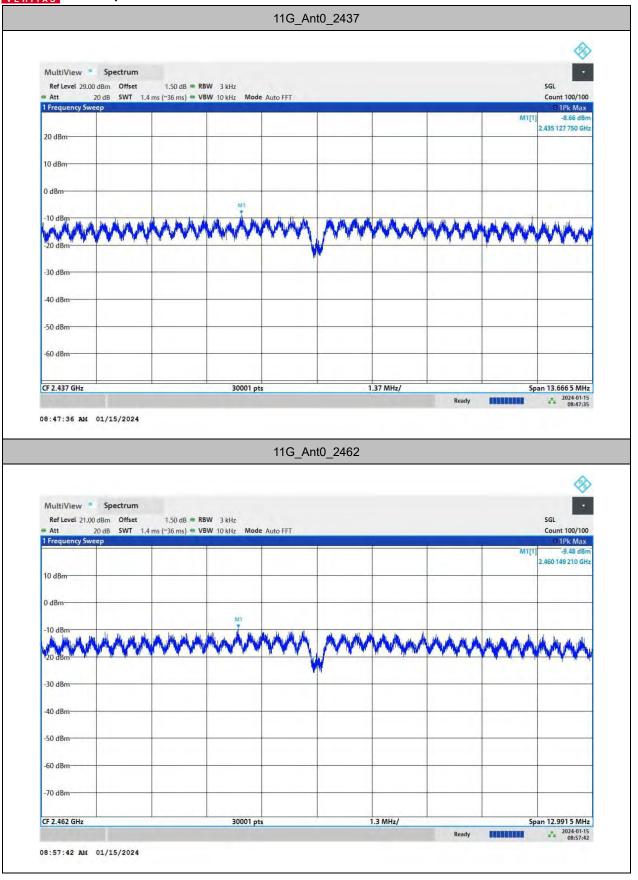
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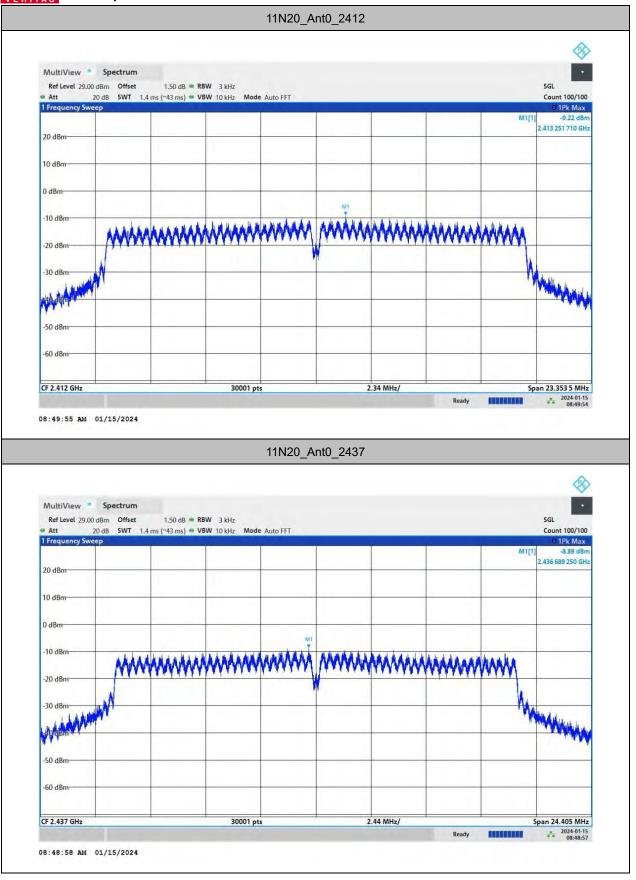
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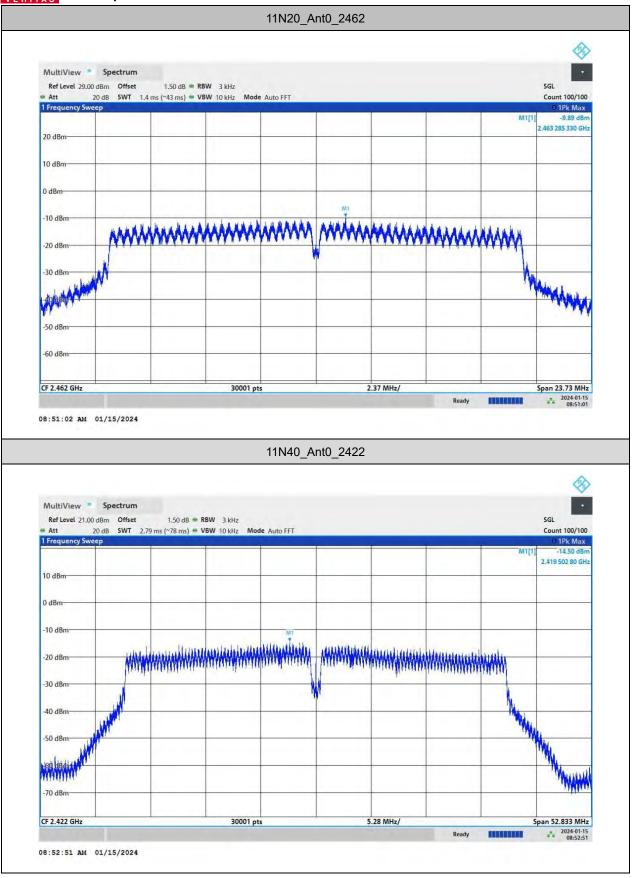




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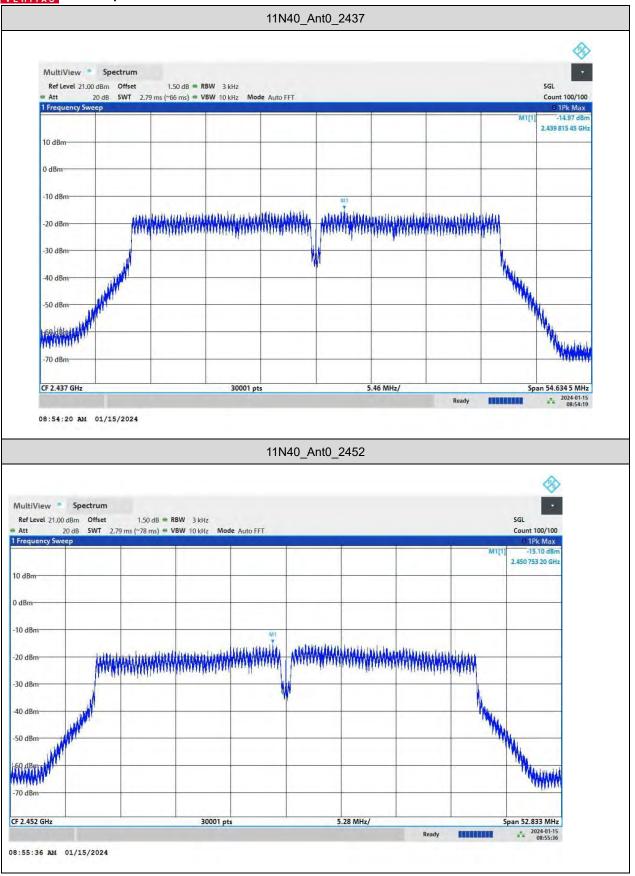




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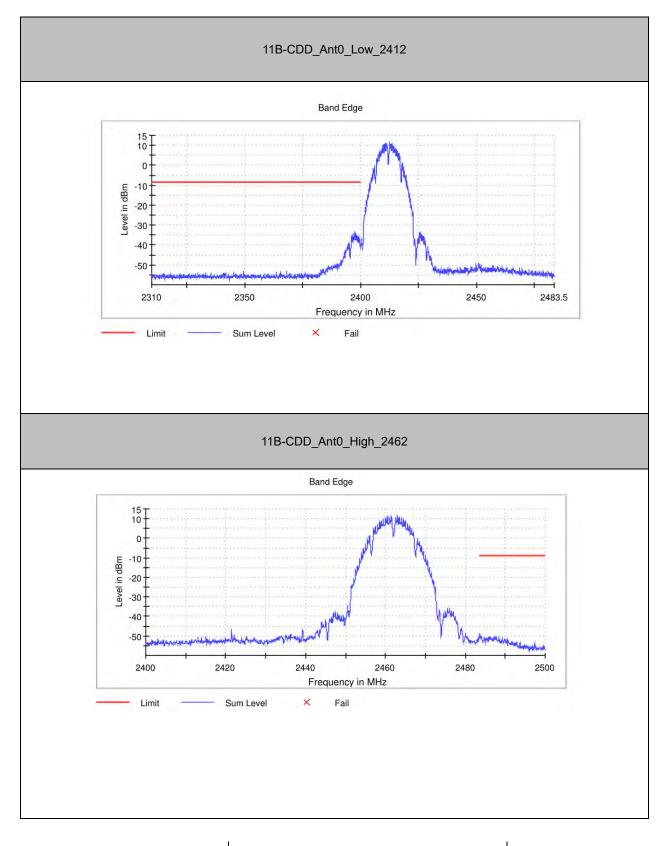
BAND EDGE MEASUREMENTS

TEST RESULT

TeetMede	Antenna	ChName	Frequency	Result	Limit	Verdict	
TestMode	Antenna	Chivame	[MHz]	[dBm]	[dBm]	verdici	
	Ant0	Low	2412	See test	See test	DASS	
11B	Anto	LOW	2412	graph	graph	PASS	
TID TID	Ant0	High	2462	See test	See test	PASS	
	Anto	riigii	2402	graph	graph	1 400	
	Ant0	Low	2412	See test	See test	PASS	
11G	Anto	LOW	2412	graph	graph	FA33	
ng	Ant0	High	2462	See test	See test	PASS	
	Anto	riigii		graph	graph	FA33	
	Ant0	AntO	Low	2412	See test	See test	PASS
11N20		LOW	2412	graph	graph	1 400	
111120	Ant0	High	2462	See test	See test	PASS	
	Anto	riigii	2402	graph	graph	FA33	
	Ant0	Low	2422	See test	See test	PASS	
11N40		LOW	2422	graph	graph	1 7.33	
111140	Ant0	Anto Llink	2452	See test	See test	PASS	
	Anto	High	2402	graph	graph		

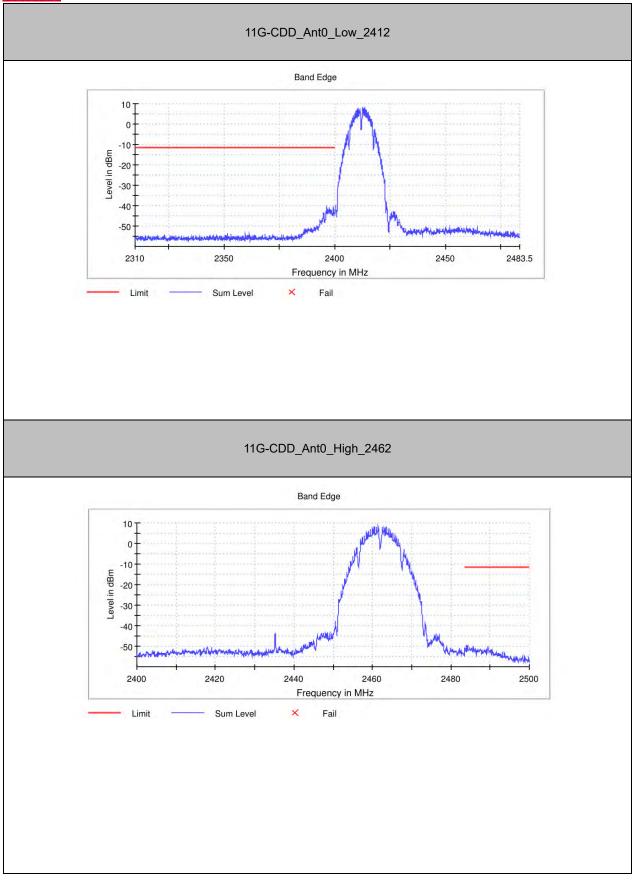


TEST GRAPHS



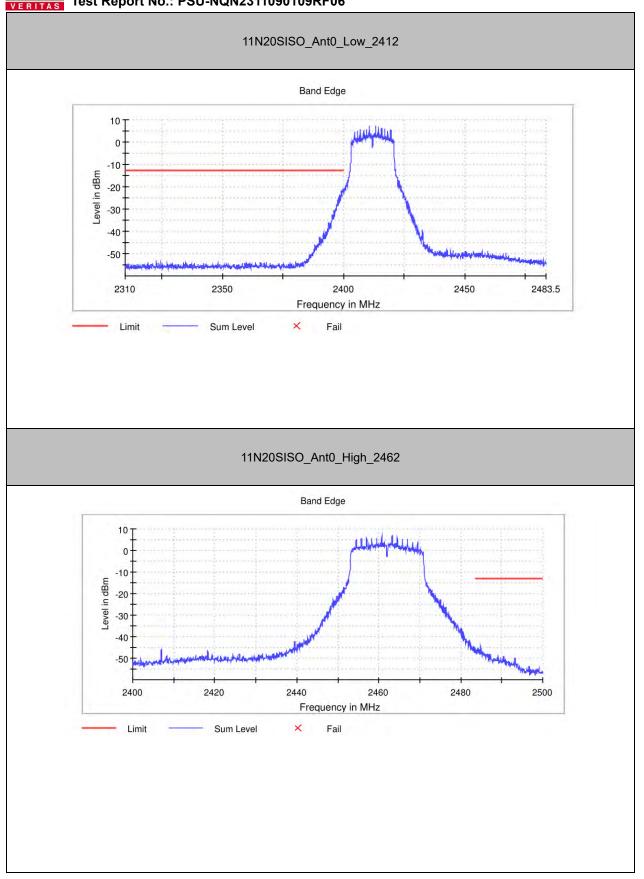
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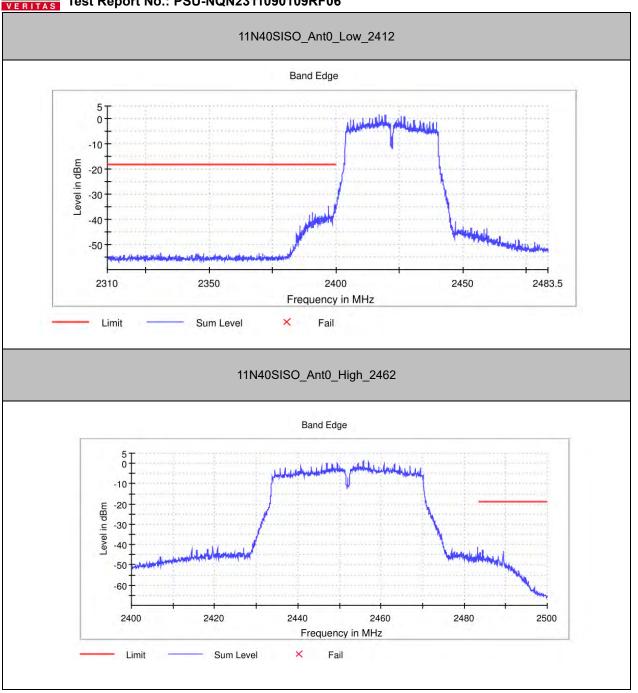




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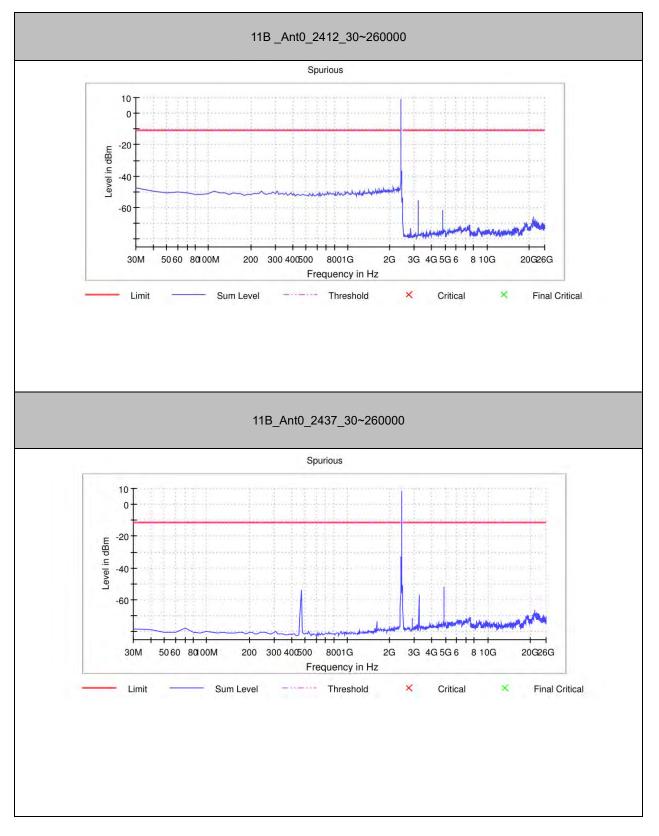


CONDUCTED SPURIOUS EMISSION

	Antonno		FreqRange	Result	Limit) (a wali a f	
TestMode	Antenna	Frequency[MHz]	[Mhz]	[dBm]	[dBm]	Verdict	
	Anto	2442	20, 260000	See test	See test	DASS	
	Ant0	2412	30~260000	graph	graph	PASS	
11B	Ant0	2437	30~260000	See test	See test	PASS	
	Anto	2437	30~200000	graph	graph	FA33	
	Ant0	2462	30~260000	See test	See test	PASS	
	Anto	2402	30~200000	graph	graph	FA33	
	Ant0	2412	30~260000	See test	See test	PASS	
		2412	30*200000	graph	graph	1,400	
11G	Ant0	2437	30~260000	See test	See test	PASS	
110		2437	30~260000	graph	graph	1,400	
	Ant0	2462	30~260000	See test	See test	PASS	
	Anto	2402	30~200000	graph	graph	FA33	
	Ant0	2412	30~260000	See test	See test	PASS	
	Anto	2412	30~200000	graph	graph	FA33	
11N20	Ant0	2437	30~260000	See test	See test	PASS	
111120	Anto	2437	30-200000	graph	graph	1,400	
	Ant0	2462	30~260000	See test	See test	PASS	
	Anto	2402	30~200000	graph	graph	FA33	
	Ant0	2422	30~260000	See test	See test	PASS	
	Anto	2422	30~200000	graph	graph	FA33	
11N40	Ant0	2437	30~260000	See test	See test	PASS	
111140	Anto	2437	30-200000	graph	graph	FA00	
	Ant0	2452	30~260000	See test	See test	PASS	
	Anto	2402	30-200000	graph	graph	FAOO	

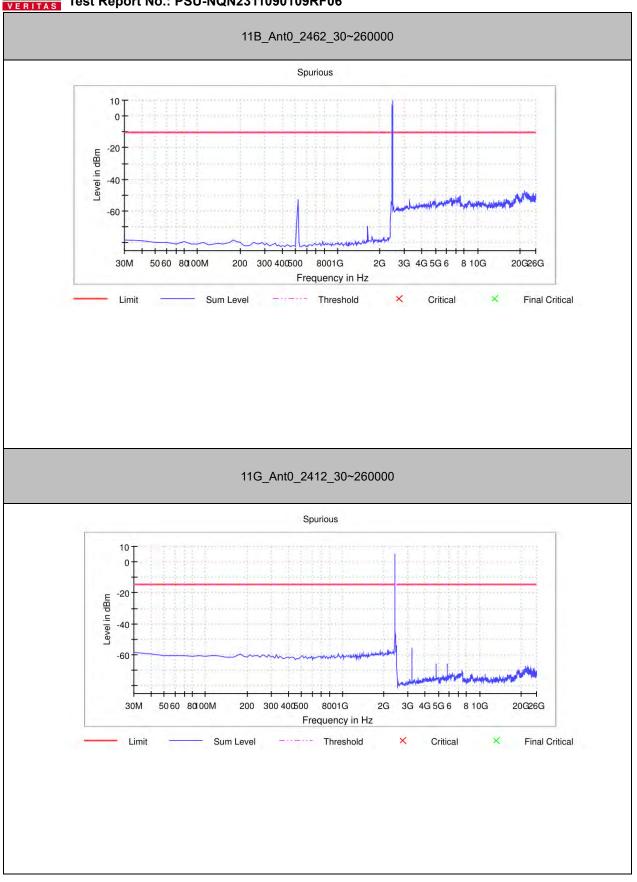


TEST GRAPHS



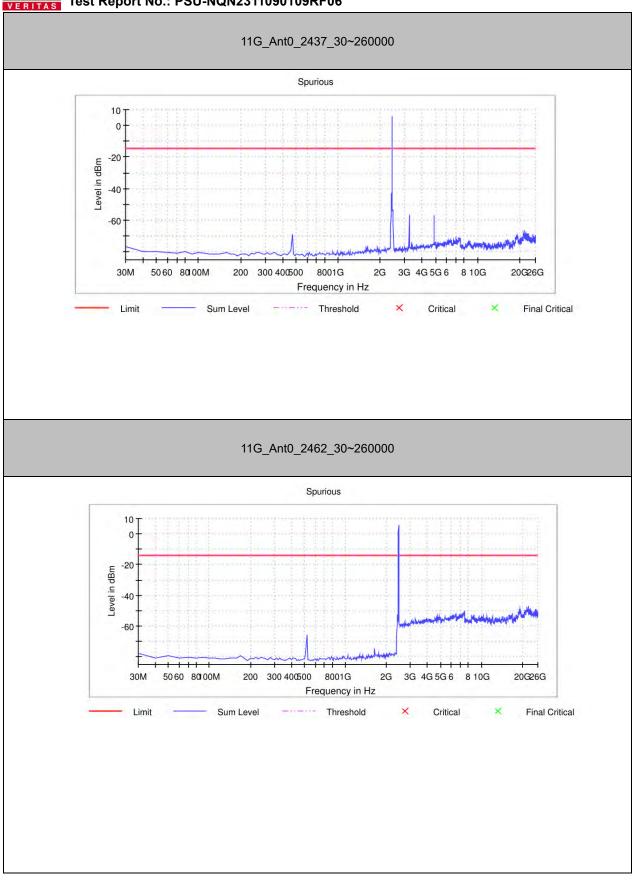
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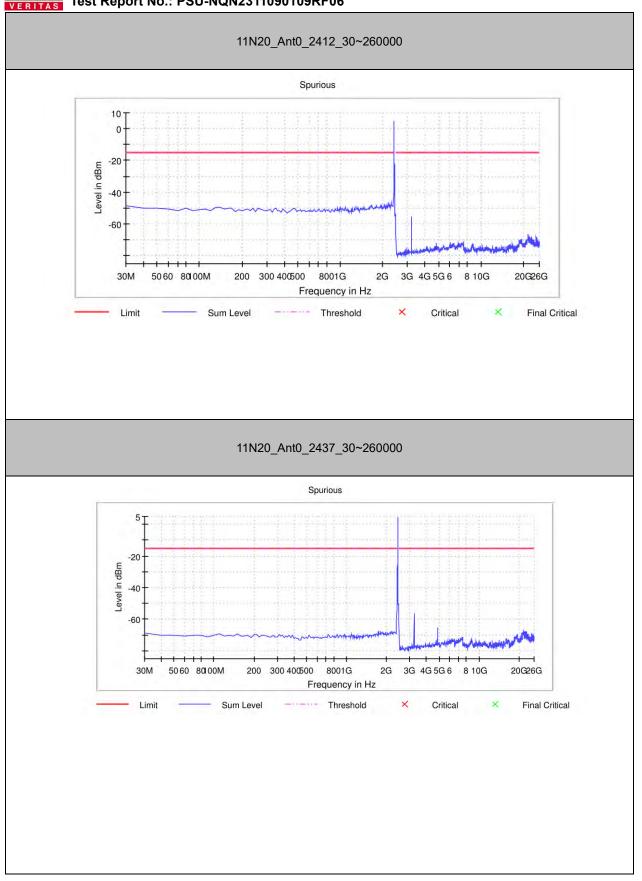




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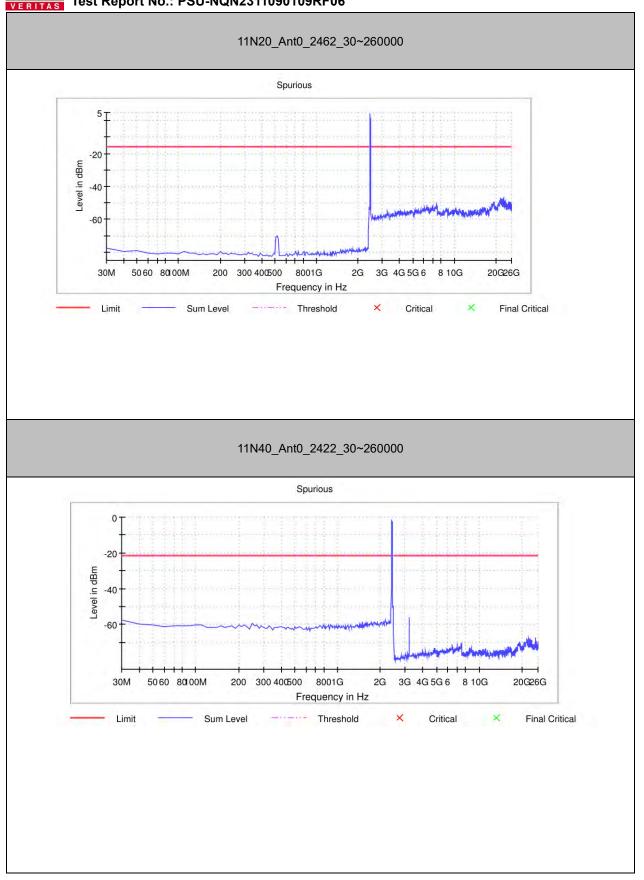




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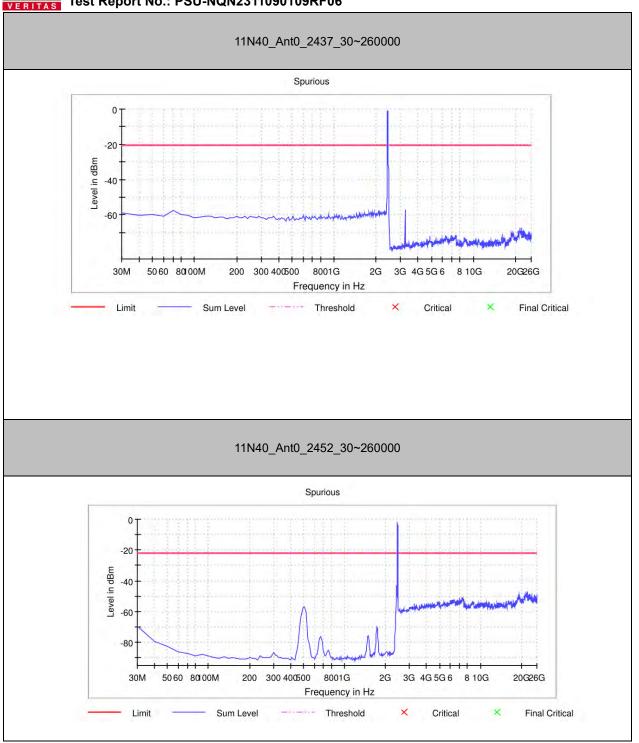




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DUTY CYCLE

TestMode	Antonno		Transmission	Transmission	Duty Cycle
Testiviode	Antenna	Frequency[MHz]	Duration [ms]	Period [ms]	[%]
11B	Ant0	2412	12.345	12.680	97.36
11G	Ant0	2412	2.052	2.088	98.28
11N20	Ant0	2412	1.909	1.945	98.15
11N40	Ant0	2422	0.940	0.992	94.76



TEST GRAPHS



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Huarui 7layers High Technology (Suzhou) Co., Ltd.



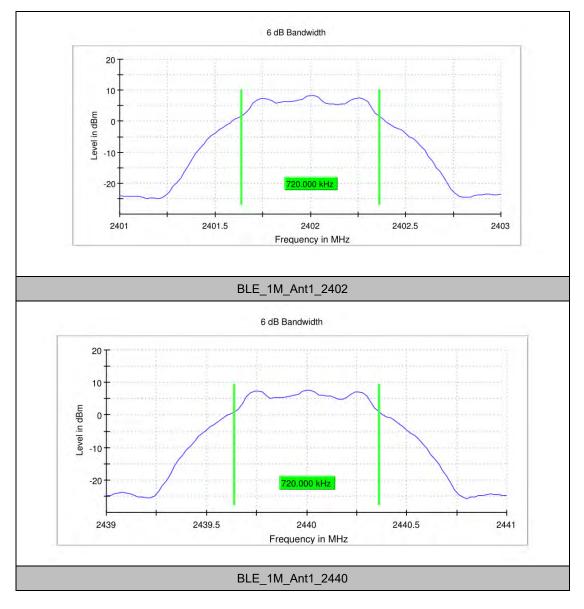
7 APPENDIX 2 BLE

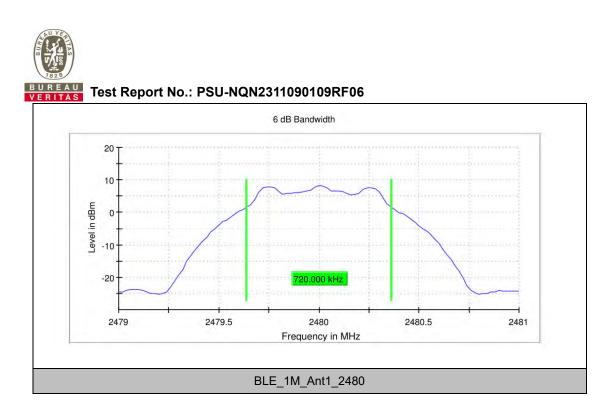
DTS BANDWIDTH

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	2402	0.720	2401.640	2402.360	0.5	PASS	
BLE_1M	Ant1	2440	0.720	2439.640	2440.360	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS



TEST GRAPHS





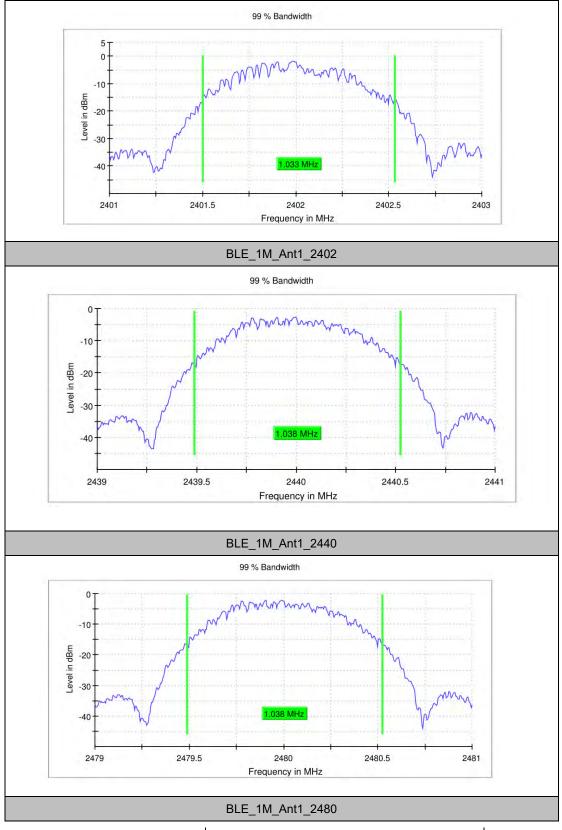


OCCUPIED CHANNEL BANDWIDTH

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	BLE_1M Ant1	2402	1.033	2401.501	2402.534		PASS
BLE_1M		2440	1.038	2439.486	2440.524		PASS
		2480	1.038	2479.486	2480.524		PASS



TEST GRAPHS



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MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMod	Antonno	Channel	Peak	Peak	Conducted	Verdict	Power
е	Antenna	Channel	Powert[dBm]	Powert[mw]	Limit[dBm]	verdict	setting
	1M Ant1	2402	8.50	7.08	≤30	PASS	Default
1M		2440	8.32	6.79	≤30	PASS	Default
		2480	8.67	7.36	≤30	PASS	Default

TEST RESULT AVERAGE

TestMode	Antenna	Channel	Average Power	Conducted Limit[dBm]	Verdict	Power setting
		2402	7.17	/	PASS	Default
1M	Ant1	2440	6.98	/	PASS	Default
		2480	7.34	1	PASS	Default



MAXIMUM POWER SPECTRAL DENSITY

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	BLE_1M Ant1	2402	-9.93	≤8	PASS
BLE_1M		2440	-10.59	≤8	PASS
		2480		-10.29	≤8



TEST GRAPHS

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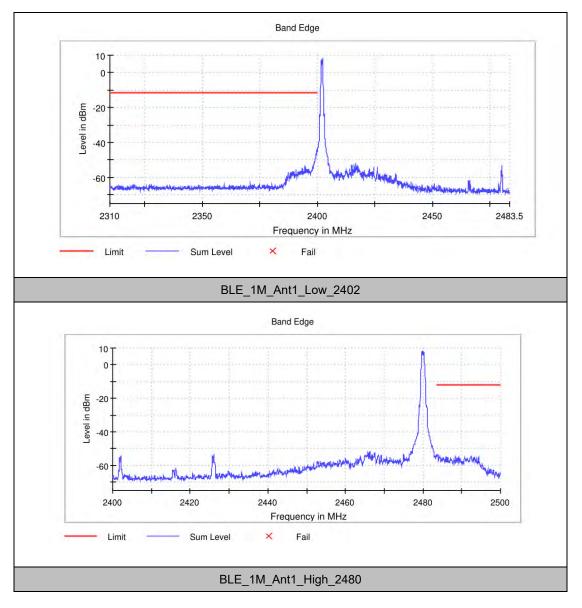


BAND EDGE MEASUREMENTS

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
	BLE_1M Ant1	Low	2402	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	PASS



TEST GRAPHS



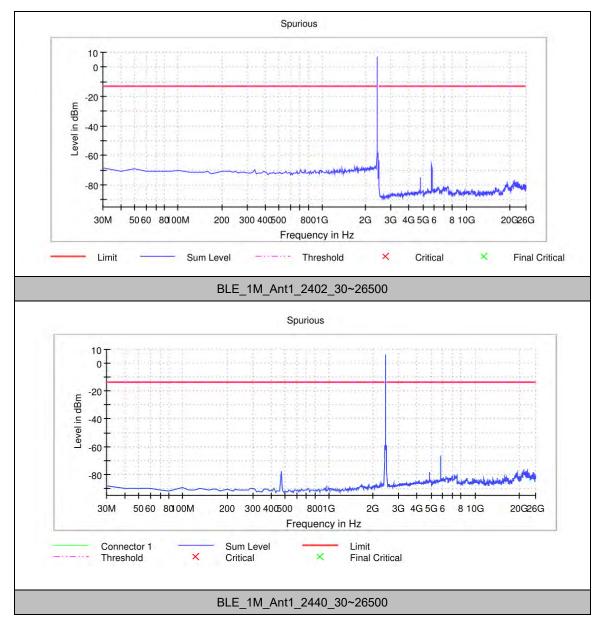


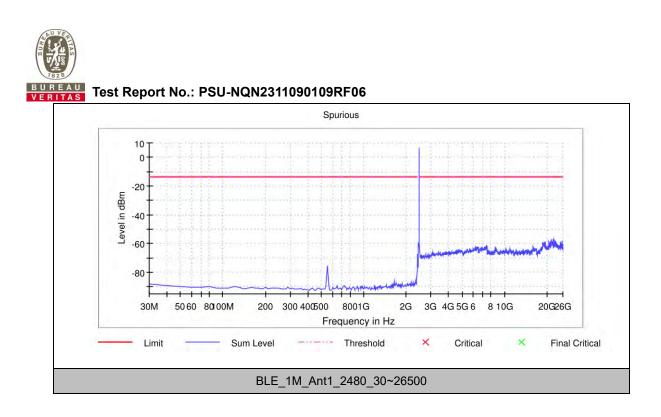
CONDUCTED SPURIOUS EMISSION

TestMode	Antenna	Channel	FreqRange [MHz]	Result[dBm]	Limit[dBm]	Verdict
		2402	30~26500	See test graph	See test graph	PASS
BLE_1M	Ant1	2440	30~26500	See test graph	See test graph	PASS
		2480	30~26500	See test graph	See test graph	PASS



TEST GRAPHS





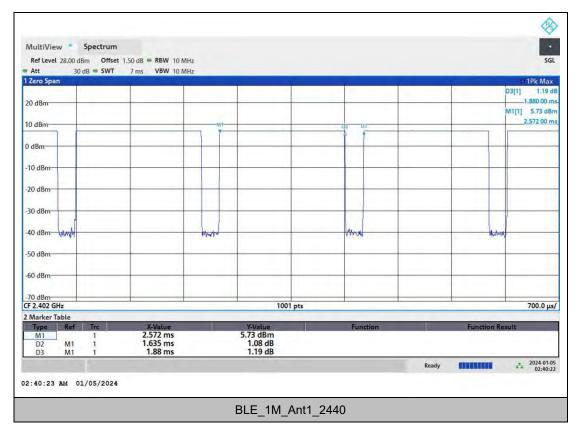


DUTY CYCLE

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	х	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.635	1.880	0.8697	86.97	0.61		PASS



TEST GRAPHS



--END---