

TEST REPORT

Report No.:	BCTC2307049257E
Applicant:	Ausek Limited
Product Name:	IP camera
Model/Type reference:	AS-V8
Tested Date:	2023-07-18 to 2023-08-08
Issued Date:	2023-08-08
She	enzhen BCTC Testing Co., Ltd.
No.: BCTC/RF-EMC-005	Page: 1 of 69 Edition: B,0



FCC ID: 2BCMP-ASV8

Product Name:	IP camera
Trademark:	N/A
Model/Type reference:	AS-V8 AS-V9, AS-A1, AS-A7, AS-A10, AS-A11, AS-A13, AS-A20, AS-A9, AS-X9, AS-A6, AS-B01, AS-B02, AS-B03, AS-Q17, AS-Q01, AS-Q02, AS-Y19, AS-ZA06, DP-001, AS-X10, AS-V380, AS-W8, AS-HQ11, AS-X5, AS-21, AS-B88, AS-ZA02, AS-W18
Prepared For:	Ausek Limited
Address:	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
Manufacturer:	Ausek Limited
Address:	No.4 Building, Jianjin Business Park, Donghuan second Road, Longhua District, Shenzhen, China
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:	2023-07-18
Sample tested Date:	2023-07-18 to 2023-08-08
Issue Date:	2023-08-08
Report No.:	BCTC2307049257E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.

Tested by:

Chen

Lei Chen/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)









1. Version

Report No.	Issue Date	Description	Approved
BCTC2307049257E	2023-08-08	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(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
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

Model/Type reference:	AS-V8 AS-V9, AS-A1, AS-A7, AS-A10, AS-A11, AS-A13, AS-A20, AS-A9, AS-X9, AS-A6, AS-B01, AS-B02, AS-B03, AS-Q17, AS-Q01, AS-Q02, AS-Y19, AS-ZA06, DP-001, AS-X10, AS-V380, AS-W8, AS-HQ11, AS-X5, AS-21, AS-B88, AS-ZA02, AS-W18
Model differences:	All the model are the same circuit and RF module, except model names and appearance color.
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 75Mbps
Type of Modulation:	WIFI: OFDM/DSSS
Number Of Channel:	802.11b/g/n20MHz:11 CH
Antenna installation:	FPC antenna
Antenna Gain:	2.41 dBi
Ratings:	AC 100-230V 50/60Hz

No.: BCTC/RF-EMC-005

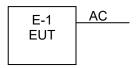
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4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	IP camera	N/A	AS-V8	Ref. the Section 4.1	EUT

Notes:

1. 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)	Channel	Frequency (MHz)	
01	2412	02	2417	03	2422	
04	2427	05	2432	06	2437	
07	2442	08	2447	09	2452	
10	2457	11	2462			

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.

For All Mode	Description	Modulation Type	
Mode 1	CH 01		
Mode 2	CH 06	802.11b	
Mode 3	CH 11		
Mode 4	CH 01		
Mode 5	CH 06	802.11g	
Mode 6	CH 11		
Mode 7	CH 01		
Mode 8	CH 06	802.11n20	
Mode 9	CH 11		
Mode 10	Link mode (Conducted emission and Radiated emission)		

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.

2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

3. According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20).

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		etfGuiTool	
Frequency	2412 MHz	2437 MHz 2	462 MHz
Parameters	DEF	DEF	DEF



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

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test								
Equipment	EquipmentManufacturerModel#Serial#Last Cal.Next Cal.							
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024			
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024			
Software	Frad	EZ-EMC	EMC-CON 3A1	/	/			
Attenuator	/	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024			

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Metter	Keysight	E4419		May 15, 2023	May 14, 2024	
Power Sensor (AV)	Keysight	E9300A		May 15, 2023	May 14, 2024	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024	
Radio frequency control box	MAIWEI	MW100-RFC B	الم			
Software	MAIWEI	MTS 8310	· · · · · · · · · · · · · · · · · · ·			

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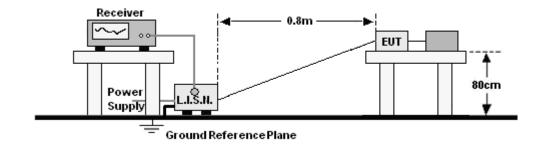
Radiated Emissions Test (966 Chamber01)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026	
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024	
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024	
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 15, 2023	May 14, 2024	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024	
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024	
Software	Frad	EZ-EMC	FA-03A2 RE	1		

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6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

	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.

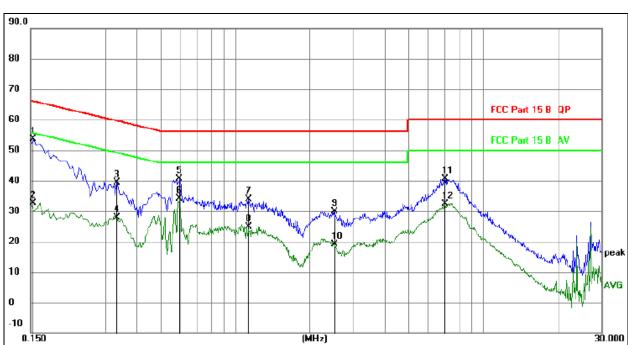
6.4 EUT operating Conditions

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.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization :	L



Remark:

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

4. Over = Measurement - Limit

4.000	Measur							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	;
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1539	44.13	9.52	53.65	65.79	-12.14	QP
2		0.1539	23.09	9.52	32.61	55.79	-23.18	AVG
3		0.3338	29.79	9.61	39.40	59.36	-19.96	QP
4		0.3338	18.25	9.61	27.86	49.36	-21.50	AVG
5		0.5979	30.92	9.62	40.54	56.00	-15.46	QP
6	*	0.5979	24.54	9.62	34.16	46.00	-11.84	AVG
7		1.1352	24.27	9.73	34.00	56.00	-22.00	QP
8		1.1352	15.14	9.73	24.87	46.00	-21.13	AVG
9		2.5000	20.12	9.76	29.88	56.00	-26.12	QP
10		2.5000	9.25	9.76	19.01	46.00	-26.99	AVG
11		7.0248	30.96	9.74	40.70	60.00	-19.30	QP
12		7.0248	22.71	9.74	32.45	50.00	-17.55	AVG

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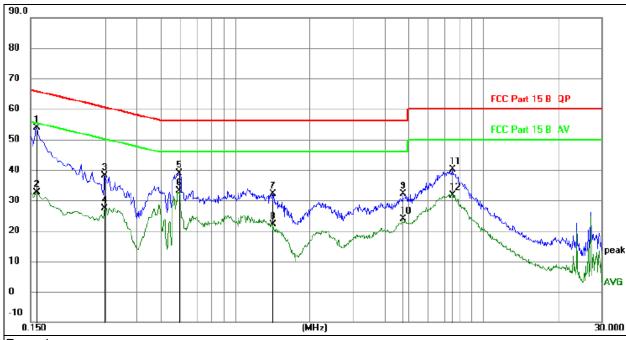
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Report No.: BCTC2307049257E

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization :	Ν



Remark:

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

No. Mk.Freq.Reading LevelCorrect FactorMeasure- mentLimitOverMHzdBdBuVdBuVdBDetector1*0.159044.459.5353.9865.52-11.54QP20.159023.129.5332.6555.52-22.87AVG30.298328.639.6138.2460.29-22.05QP40.298317.829.6127.4350.29-22.86AVG50.595429.219.6238.8356.00-17.17QP60.595423.409.6233.0246.00-12.98AVG71.414422.449.7332.1756.00-23.83QP81.414412.419.7322.1446.00-23.86AVG94.767022.329.8132.1356.00-23.87QP104.767014.179.8123.9846.00-22.02AVG117.516430.319.7340.0460.00-19.96QP127.516422.009.7331.7350.00-18.27AVG									
1 * 0.1590 44.45 9.53 53.98 65.52 -11.54 QP 2 0.1590 23.12 9.53 32.65 55.52 -22.87 AVG 3 0.2983 28.63 9.61 38.24 60.29 -22.05 QP 4 0.2983 17.82 9.61 27.43 50.29 -22.86 AVG 5 0.5954 29.21 9.62 38.83 56.00 -17.17 QP 6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	No.	Mk.	Freq.				Limit	Over	
1 0.1330 44.43 9.33 33.36 63.32 -11.34 Qr 2 0.1590 23.12 9.53 32.65 55.52 -22.87 AVG 3 0.2983 28.63 9.61 38.24 60.29 -22.05 QP 4 0.2983 17.82 9.61 27.43 50.29 -22.86 AVG 5 0.5954 29.21 9.62 38.83 56.00 -17.17 QP 6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP			MHz		dB	dBuV	dBuV	dB	Detector
3 0.2983 28.63 9.61 38.24 60.29 -22.05 QP 4 0.2983 17.82 9.61 27.43 50.29 -22.86 AVG 5 0.5954 29.21 9.62 38.83 56.00 -17.17 QP 6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 32.17 56.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	1	*	0.1590	44.45	9.53	53.98	65.52	-11.54	QP
4 0.2983 17.82 9.61 27.43 50.29 -22.86 AVG 5 0.5954 29.21 9.62 38.83 56.00 -17.17 QP 6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	2		0.1590	23.12	9.53	32.65	55.52	-22.87	AVG
5 0.5954 29.21 9.62 38.83 56.00 -17.17 QP 6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	3		0.2983	28.63	9.61	38.24	60.29	-22.05	QP
6 0.5954 23.40 9.62 33.02 46.00 -12.98 AVG 7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	4		0.2983	17.82	9.61	27.43	50.29	-22.86	AVG
7 1.4144 22.44 9.73 32.17 56.00 -23.83 QP 8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	5		0.5954	29.21	9.62	38.83	56.00	-17.17	QP
8 1.4144 12.41 9.73 22.14 46.00 -23.86 AVG 9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	6		0.5954	23.40	9.62	33.02	46.00	-12.98	AVG
9 4.7670 22.32 9.81 32.13 56.00 -23.87 QP 10 4.7670 14.17 9.81 23.98 46.00 -22.02 AVG 11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	7		1.4144	22.44	9.73	32.17	56.00	-23.83	QP
104.767014.179.8123.9846.00-22.02AVG117.516430.319.7340.0460.00-19.96QP	8		1.4144	12.41	9.73	22.14	46.00	-23.86	AVG
11 7.5164 30.31 9.73 40.04 60.00 -19.96 QP	9		4.7670	22.32	9.81	32.13	56.00	-23.87	QP
	10		4.7670	14.17	9.81	23.98	46.00	-22.02	AVG
12 7.5164 22.00 9.73 31.73 50.00 -18.27 AVG	11		7.5164	30.31	9.73	40.04	60.00	-19.96	QP
	12		7.5164	22.00	9.73	31.73	50.00	-18.27	AVG

Edition: B.C

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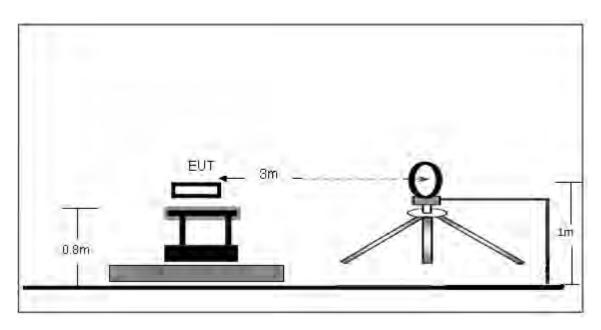
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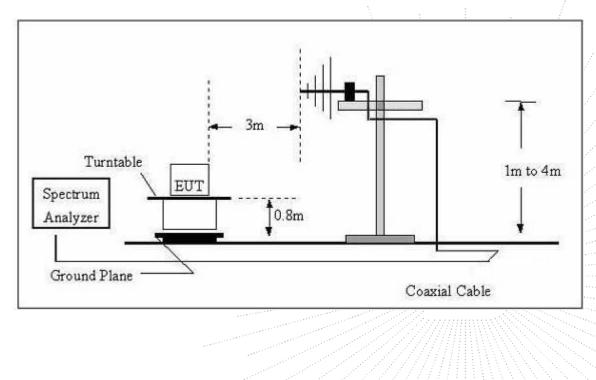
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

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



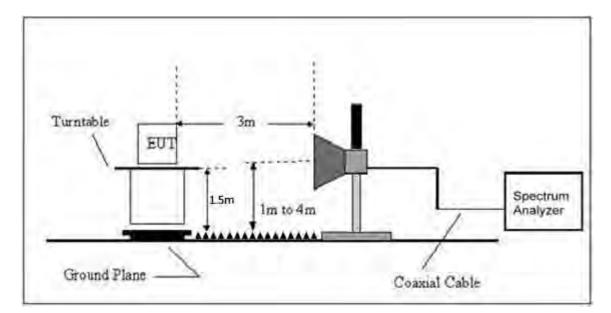
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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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	h 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)

	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).

FD



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

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,
1-230112	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 camber. 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:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 middlest 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.

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7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V 60Hz
Test Mode:	Mode 10	Polarization :	

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



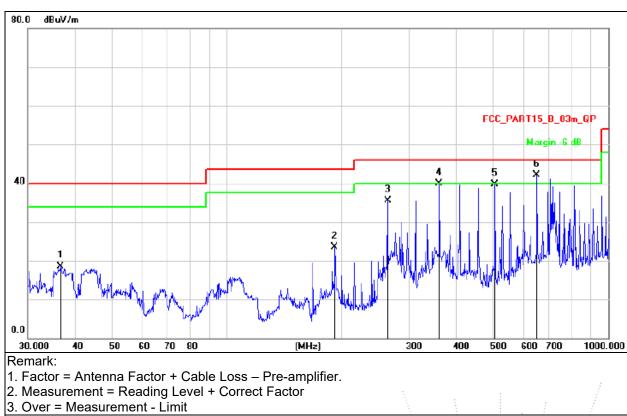
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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V 60Hz
Test Mode:	Mode 10	Polarization :	Horizontal



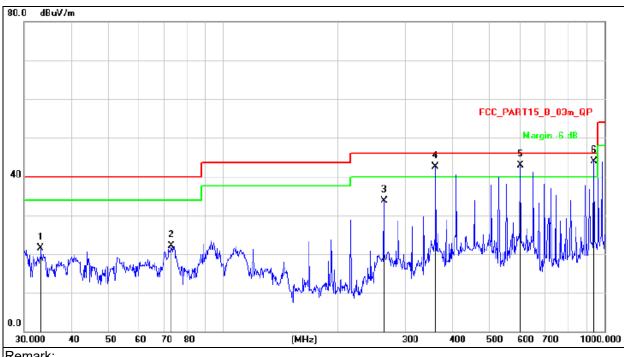
0.									
	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	/
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
-	1		36.5091	35.80	-17.30	18.50	40.00	-21.50	QP
	2		191.7450	41.54	-17.98	23.56	43.50	-19.94	QP
	3		263.8190	51.02	-15.48	35.54	46.00	-10.46	QP
-	4		360.4476	52.61	-12.67	39.94	46.00	-6.06	QP
	5		504.7062	49.82	-10.18	39.64	46.00	-6.36	QP
	6	*	649.6597	49.72	-7.70	42.02	46.00	-3.98	QP
_									

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V 60Hz
Test Mode:	Mode 10	Polarization :	Vertical



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		33.2111	39.35	-17.85	21.50	40.00	-18.50	QP
2		73.1025	42.60	-20.45	22.15	40.00	-17.85	QP
3		263.8190	49.28	-15.48	33.80	46.00	-12.20	QP
4	İ	360.4476	55.26	-12.67	42.59	46.00	-3.41	QP
5	İ	601.4265	51.32	-8.38	42.94	46.00	-3.06	QP
6	*	938.8325	47.98	-4.17	43.81	46.00	-2.19	QP

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Between 1GHz – 25GHz

802.11b

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре
		Lo	ow channel:24	12MHz			
V	4824.00	52.77	-10.79	41.98	74.00	-32.02	PK
V	4824.00	42.14	-10.79	31.35	54.00	-22.65	AV
V	7236.00	45.45	-2.96	42.49	74.00	-31.51	PK
V	7236.00	35.55	-2.96	32.59	54.00	-21.41	AV
Н	4824.00	47.78	-10.79	36.99	74.00	-37.01	PK
Н	4824.00	38.59	-10.79	27.80	54.00	-26.20	AV
Н	7236.00	42.56	-2.96	39.60	74.00	-34.40	PK
Н	7236.00	33.97	-2.96	31.01	54.00	-22.99	AV
		Mic	dle channel:2	437MHz			
V	4874.00	49.70	-10.64	39.06	74.00	-34.94	PK
V	4874.00	42.30	-10.64	31.66	54.00	-22.34	AV
V	7311.00	40.71	-2.69	38.02	74.00	-35.98	PK
V	7311.00	31.01	-2.69	28.32	54.00	-25.68	AV
Н	4874.00	48.12	-10.64	37.48	74.00	-36.52	PK
Н	4874.00	38.13	-10.64	27.49	54.00	-26.51	AV
Н	7311.00	38.60	-2.69	35.91	74.00	-38.09	PK
Н	7311.00	31.23	-2.69	28.54	54.00	-25.46	AV
		Hi	gh channel:24	462MHz			
V	4924.00	52.50	-10.49	42.01	74.00	-31.99	PK
V	4924.00	42.47	-10.49	31.98	54.00	-22.02	AV
V	7386.00	44.96	-2.42	42.54	74.00	-31.46	PK
V	7386.00	34.22	-2.42	31.80	54.00	-22.20	AV
Н	4924.00	49.84	-10.49	39.35	74.00	-34.65	PK
Н	4924.00	38.93	-10.49	28.44	54.00	-25.56	AV
Н	7386.00	42.28	-2.42	39.86	74.00	-34.14	PK
Н	7386.00	34.16	-2.42	31.74	54.00	-22.26	AV

Remark:

1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

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

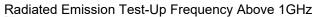
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

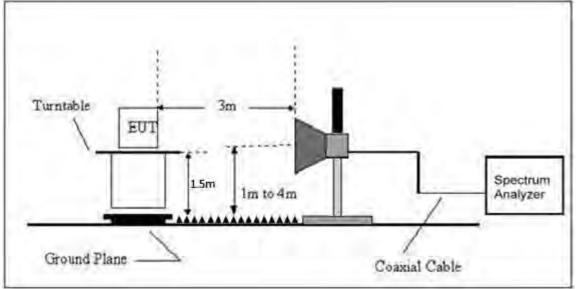
5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup





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			



Limits Of Radiated Emission Measurement (Above 1000MHz)

	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 camber. 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.



8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result		
					РК	РК	AV			
	Low Channel 2412MHz									
	Н	2390.00	64.90	-19.46	45.44	74.00	54.00	PASS		
	Н	2400.00	68.17	-19.42	48.75	74.00	54.00	PASS		
	V	2390.00	63.94	-19.46	44.48	74.00	54.00	PASS		
000 446	V	2400.00	63.90	-19.42	44.48	74.00	54.00	PASS		
802.11b			Hig	h Channel 2	462MHz					
	Н	2483.50	64.06	-19.05	45.01	74.00	54.00	PASS		
	Н	2500.00	60.71	-18.98	41.73	74.00	54.00	PASS		
	V	2483.50	63.82	-19.05	44.77	74.00	54.00	PASS		
	V	2500.00	59.98	-18.95	41.03	74.00	54.00	PASS		
	Low Channel 2412MHz									
	Н	2390.00	64.90	-19.46	45.44	74.00	54.00	PASS		
	Н	2400.00	68.10	-19.42	48.68	74.00	54.00	PASS		
	V	2390.00	64.41	-19.46	44.95	74.00	54.00	PASS		
000.44	V	2400.00	65.32	-19.42	45.90	74.00	54.00	PASS		
802.11g		High Channel 2462MHz								
	Н	2483.50	64.36	-19.05	45.31	74.00	54.00	PASS		
	Н	2500.00	61.44	-18.98	42.46	74.00	54.00	PASS		
	V	2483.50	64.24	-19.05	45.19	74.00	54.00	PASS		
	V	2500.00	59.47	-18.95	40.52	74.00	54.00	PASS		
	Low Channel 2412MHz									
	Н	2390.00	63.92	-19.46	44.46	74.00	54.00	PASS		
	H	2400.00	67.13	-19.42	47.71	74.00	54.00	PASS		
	V	2390.00	64.13	-19.46	44.67	74.00	54.00	PASS		
	V	2400.00	65.49	-19.42	46.07	74.00	54.00	PASS		
802.11n20	High Channel 2462MHz									
	Н	2483.50	63.90	-19.05	44.85	74.00	54.00	PASS		
	H	2500.00	58.96	-18.98	39.98	74.00	54.00	PASS		
	V	2483.50	63.12	-19.05	44.07	74.00	54.00	PASS		
	V	2500.00	58.63	-18.95	39.68	74.00	54.00	PASS		

Remark:

1. Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level – 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



9.2 Limit

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	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 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

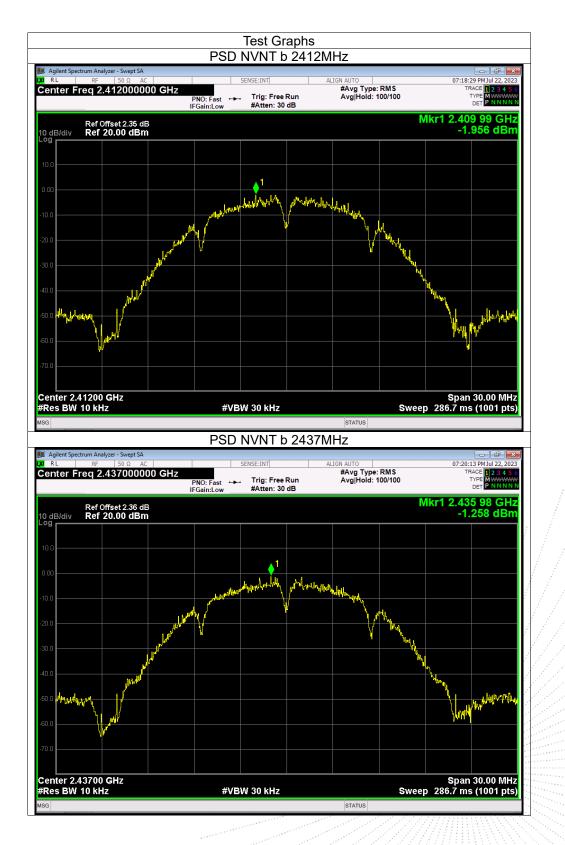
Temperature: 26 °C		26 ℃	Relative Humid		/: 54%		
Pressure: 101		101KF	a	Test Voltage :		AC 120V 60Hz	
Test Mode	Frequei	ncy	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Lin	nit (dBm/3kHz)	Result
	2412 M	Hz	-1.96	-7.19		8	PASS
TX b Mode	2437 MHz		-1.26	-6.49	8		PASS
	2462 M	Hz	-1.49	-6.72		8	PASS
TX g Mode	2412 MHz		-4.92	-10.15		8	PASS
	2437 MHz		-5.78	-11.01		8	PASS
	2462 MHz		-5.44	-10.67		8	PASS
TX n Mode(20M)	2412 MHz		-6.51	-11.74		8	PASS
	2437 M	Hz	-6.76	-11.99		8	PASS
	2462 M	Hz	-6.53	-11.76		8	PASS

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

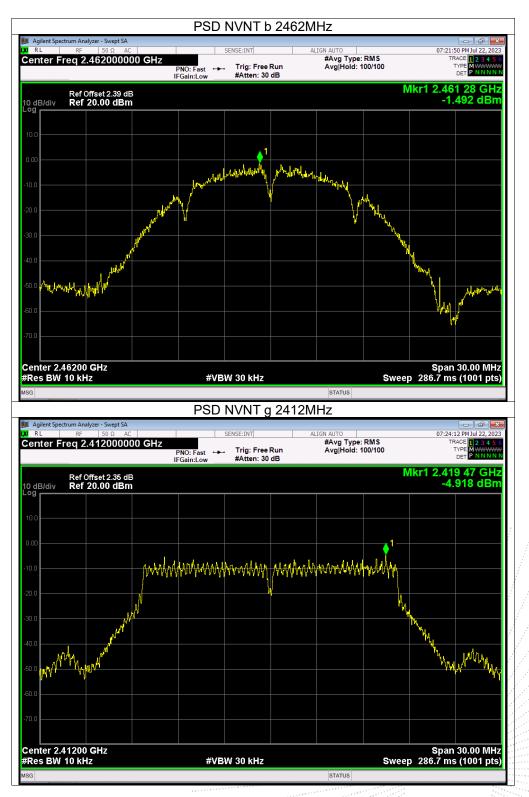


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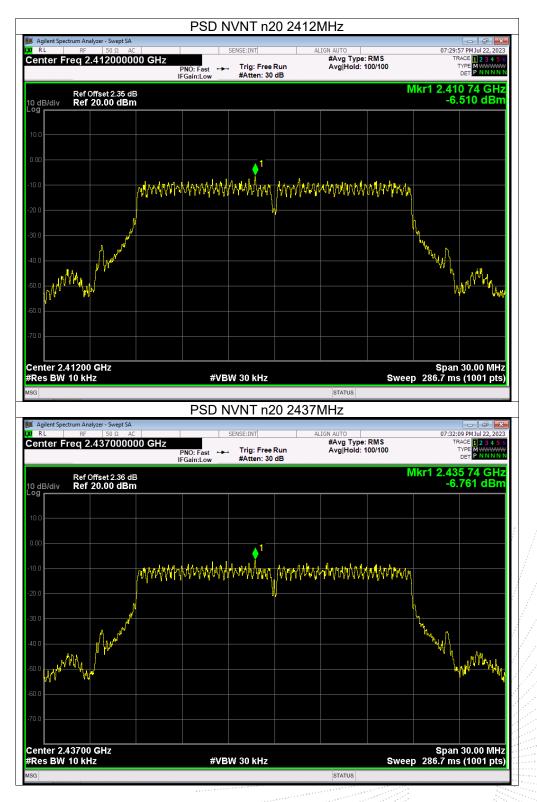






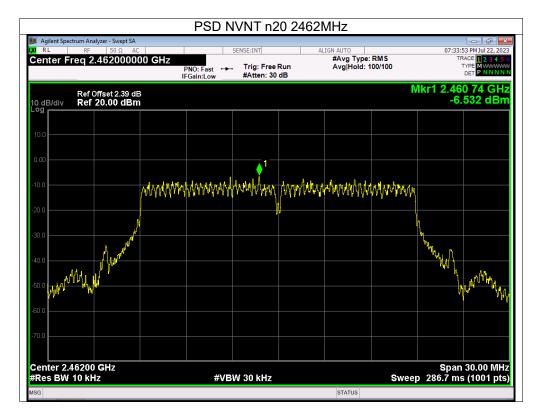
















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10. Bandwidth Test

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) \ge 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



10.5 Test Result

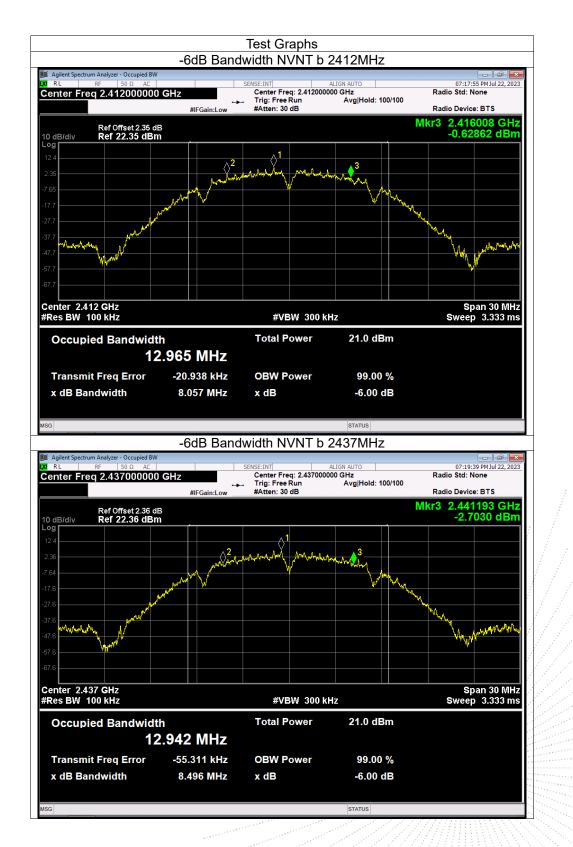
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	AC 120V 60Hz

Test Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
	2412	8.057	500	Pass
TX b Mode	2437	8.496	500	Pass
	2462	8.038	500	Pass
	2412	16.365	500	Pass
TX g Mode	2437	16.351	500	Pass
	2462	16.384	500	Pass
	2412	17.547	500	Pass
TX n Mode(20M)	2437	17.558	500	Pass
	2462	17.562	500	Pass

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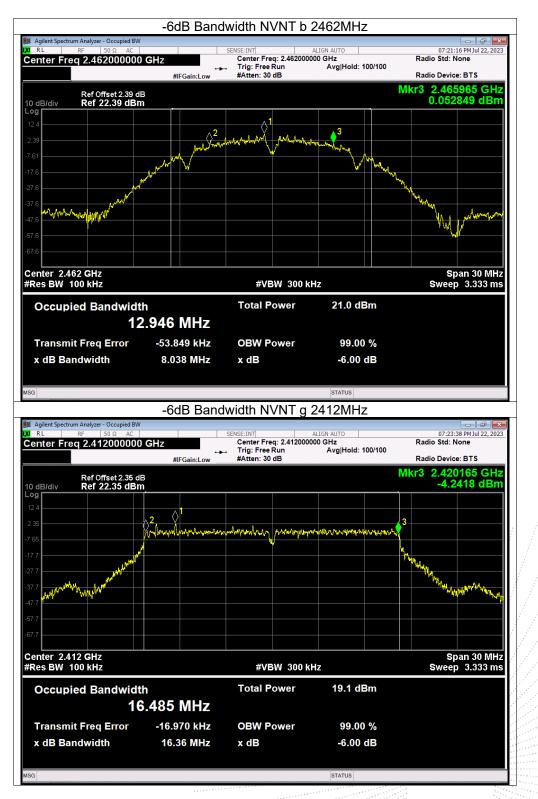
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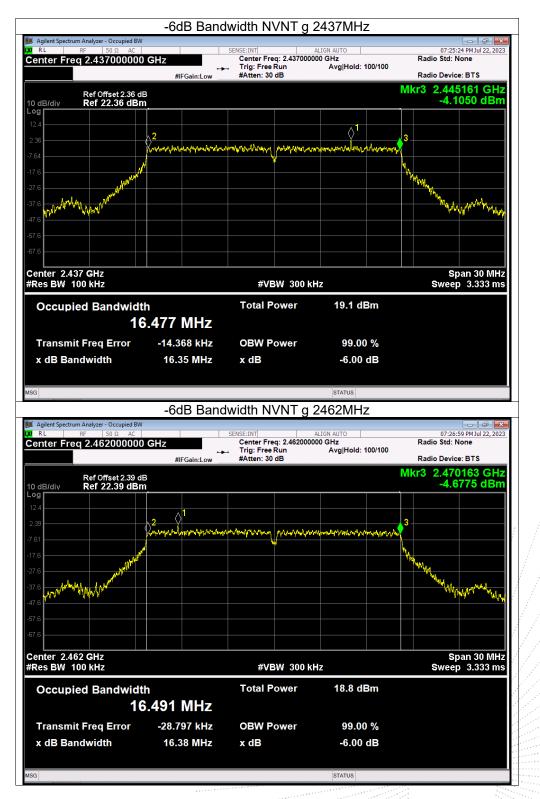
00.,LTA





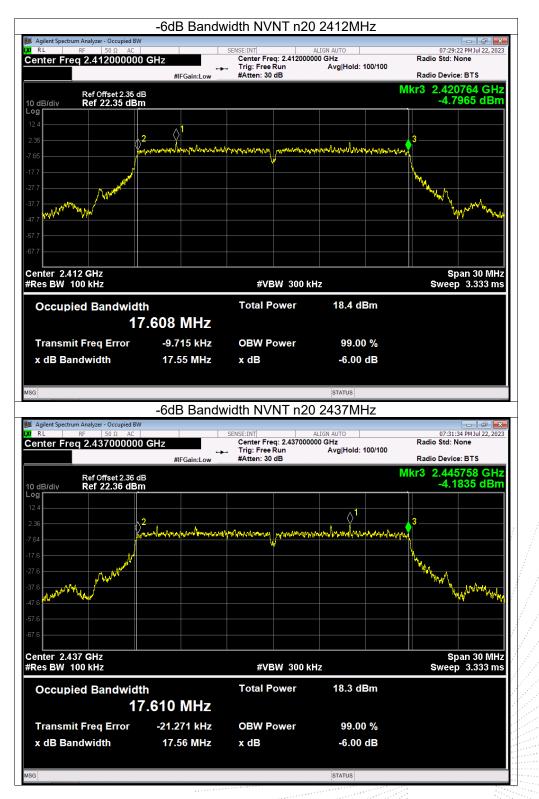








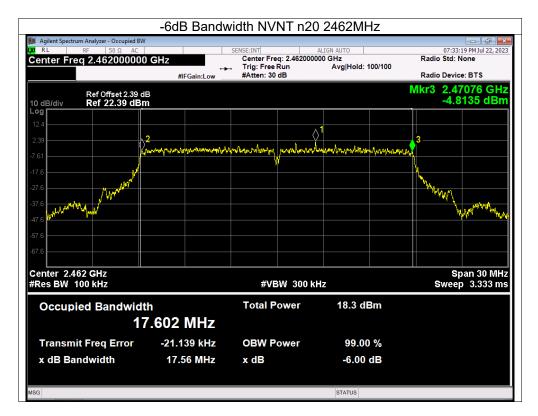




JC JC PPR











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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



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 °C			Relative Humidity:	54%	
Pressure:		101KPa	1	Test Voltage :	AC 120V 60Hz
Test Mode	Frequenc	y(MHz)		ed Output Power(PK) Bm)	Limit (dBm)
2412		12.03		30	
802.11b	243	7	11	.87	30
	246	2	11	.91	30
	241	2	10	.63	30
802.11g	2437		10	.44	30
	246	2	10	.68	30
	241	2	9.	98	30
802.11n20	243	7	9.	74	30
	246	2	10	.38	30

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No.: BCTC/RF-EMC-005

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12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



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

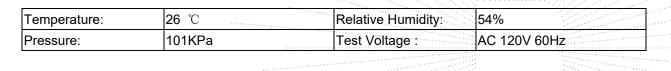
Using the following spectrum analyzer setting:

- 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.

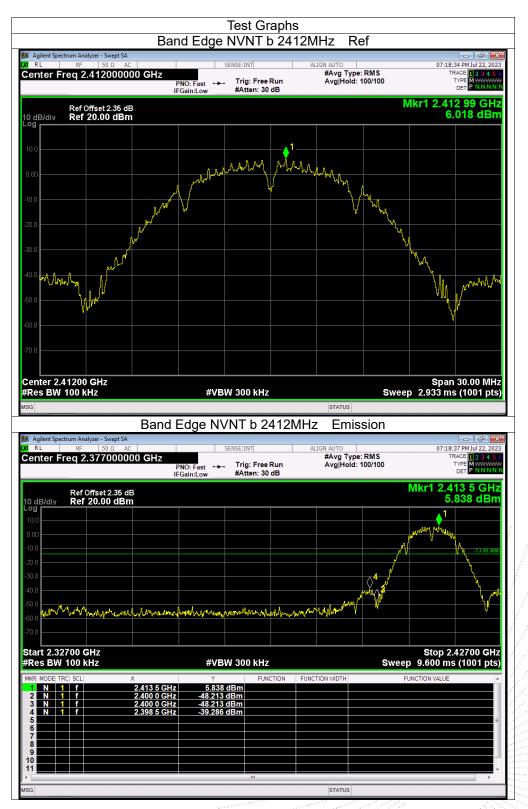
12.4 EUT Operating Conditions

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

12.5 Test Result







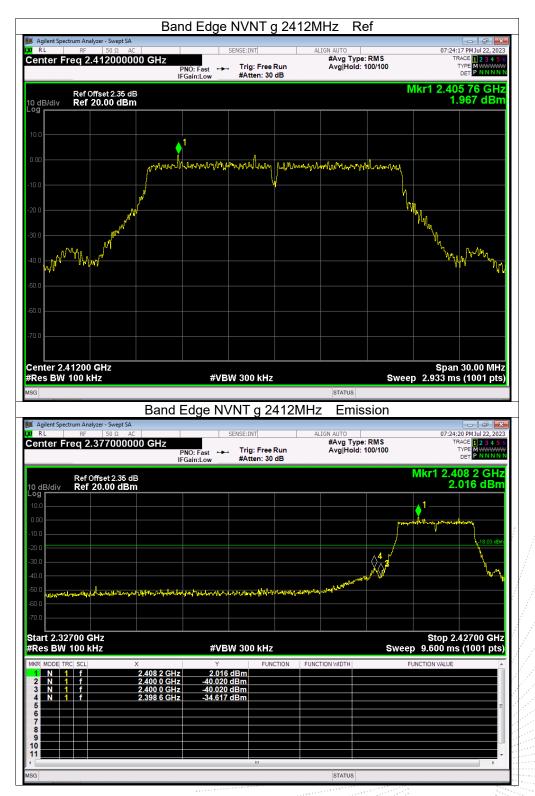






















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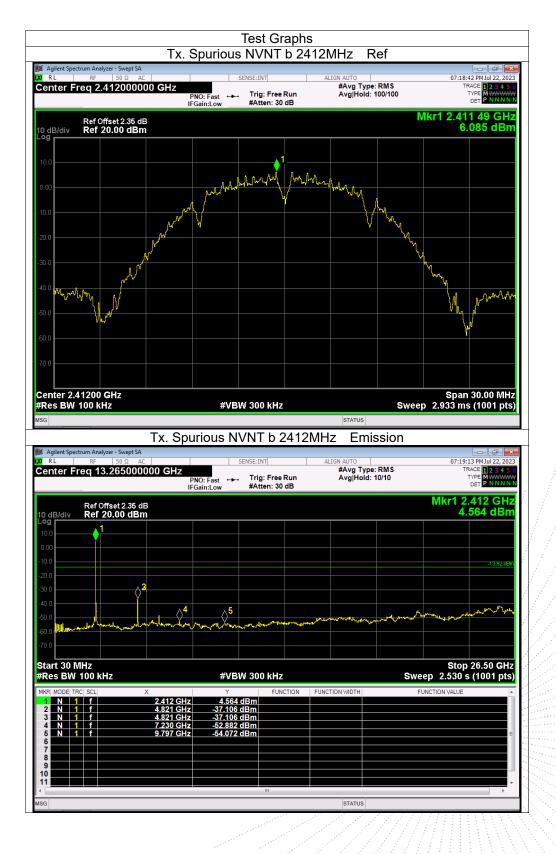






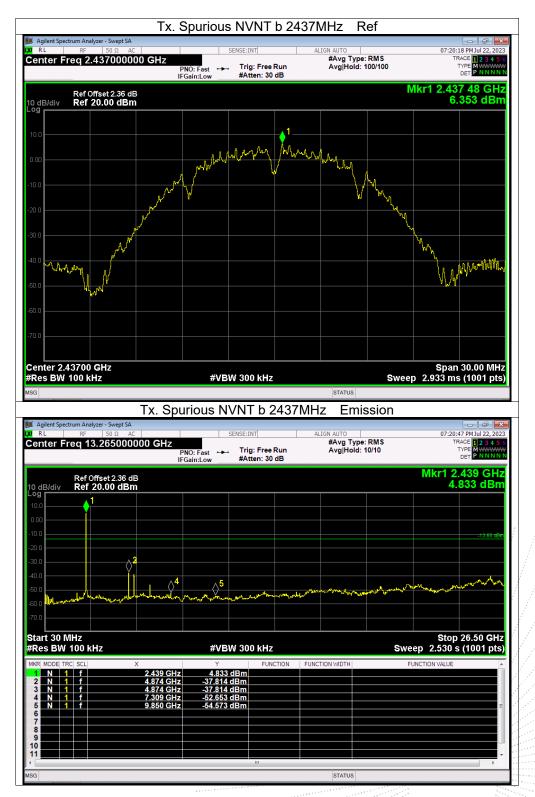


Conducted Emission Measurement





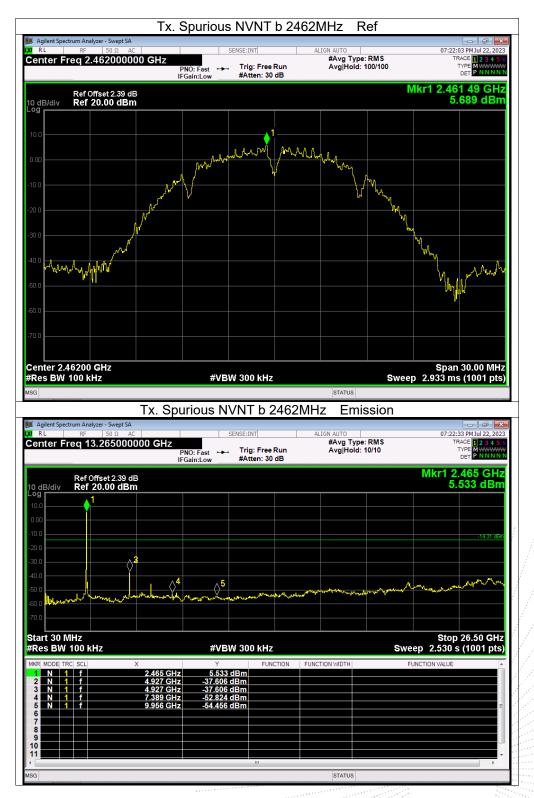














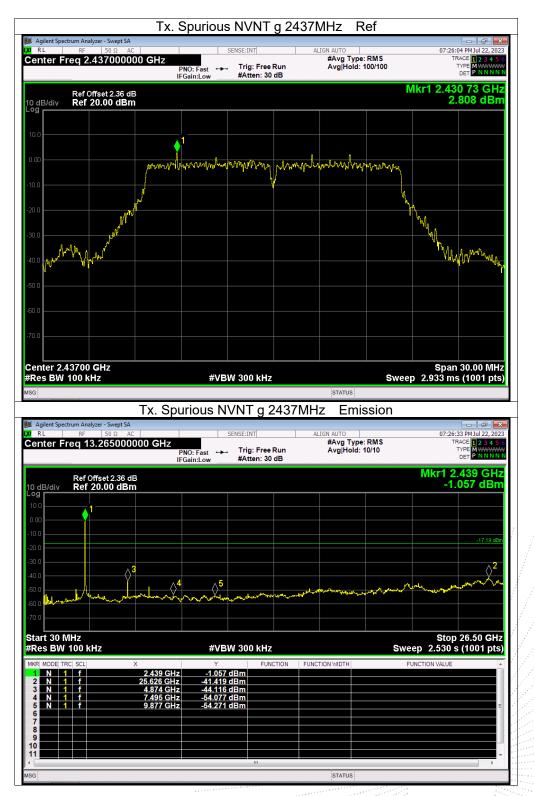
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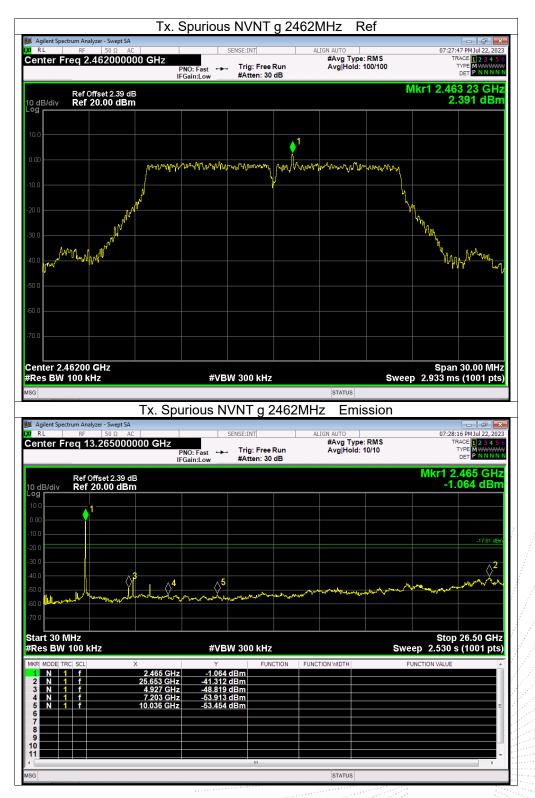


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13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = Ton / (Ton+Toff)

13.3 Test Procedure

- 1.Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

13.4 Test Result

Test mode	Frequency (MHz)	Duty Cycle (%)	Duty Fator (dB)	1/T (Hz)
	2412	100	0	10
802.11b	2437	100	0	10
	2462	100	0	10
	2412	100	0	10
802.11g	2437	100	0	10
	2462	100	0	10
	2412	100	0	10
802.11n(HT20)	2437	100	0	10
	2462	100	0	10







. Agilent Spectrum Analyzer - Swept SA		y Cycle N\		+12101112		- 6 💌
RL RF 50 Ω A enter Freq 2.4120000	C	SENSE:INT		ALIGN AUTO #Avg Type: RM		40:29 PM Jul 22, 2023
	PNO: Fa IFGain:L	uot	ree Run : 30 dB			
Ref Offset 2.35 d 0 dB/div Ref 20.00 dBr	IB m				Mkr	1 50.00 ms 9.71 dBm
og 10.0			1			
0.00						
0.0						
20.0						
80.0						
40.0						
60.0						
70.0						
enter 2.412000000 GHz es BW 8 MHz	2	#VBW 8.0 M	IHZ		Sweep 100.0 m	Span 0 Hz
KR MODE TRC SCL	X	Y		UNCTION WIDTH	FUNCTION VALU	
1 N 1 t 2	50.00 ms	9.71 dBm				
3						
5						E
7 8						
9						
		III				
G						
		<u> </u>		STATUS		
		y Cycle N\	/NT b 24			
Agilent Spectrum Analyzer - Swept SA	.c	y Cycle N	/NT b 24	437MHz		41:43 PM Jul 22, 2023
Agilent Spectrum Analyzer - Swept SA	c DOO GHz PNO: Fa	SENSE:INT	/NT b 24	437MHz		41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 0 TYPE WWWWW DET PNNNN
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
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Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d 0 dB/div Ref 20.00 dBr 9 0	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q A enter Freq 2.4370000 Ref Offset 2.36 d 0 dB/div Ref 20.00 dBr 9 0 0 00 0 0	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d A 0 dB/div Ref 20.00 dBr B 9 0 0 B 00 0 0 0 00 0 0 0 00 0 0 0	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d O	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d O	c DOO GHz PNO: Fa IFGain:L	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	41:43 PM Jul 22, 2023 TRACE 1 2 3 4 5 6 TYPE WWWWW DET P NNNN 1 50.00 ms
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Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4370000 Ref Offset 2.36 d O	C PNO: Fa FGain:L B M A A A A A A A A A A A A A	SENSE:INT	ree Run : 30 dB	437MHz	is Mkr	11:43 PM JU 22, 2023 TRACE 12 3 4 5 0 TYPE VIEW DET P NNNNN 1 50:00 ms 10:46 dBm 1 50:00 ms 1 50:00 ms
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I Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω enter Freq 2.4370000 Ref Offset 2.36 d 0 dB/div Ref 20.00 dBr 9	x	SENSE:INT ast →→ Trig: F #Atten #Atten #VBW 8.0 M Y	ree Run : 30 dB	437MHz ALIGN AUTO #Avg Type: RM	Sweep 100.0 m	11:43 PM JUI 22: 2022 TRACE 11:23 4:50 TYPE P NNNNN 15:00.00 ms 10:46 dBm 10:46 dBm 5:000 Hz 5:000 Hz 5:000 Hz 5:000 Hz 5:000 Hz



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Agilent Spectrum Analyzer - Swept SA					- F ×
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	IFGall:Low	#Atten: 00 uB		Mk	1 50.00 ms
Ref Offset 2.39 dB D dB/div Ref 20.00 dBm				WIKI	9.67 dBm
og 🔤		1			
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30.0					
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50.0					
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70.0					
enter 2.462000000 GHz					Span 0 Hz
es BW 8 MHz	#VE	BW 8.0 MHz		Sweep 100.0 n	ns (10001 pts)
KR MODE TRC SCL X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VAL	UE 🔺
2	.00 ms 9.6	7 dBm			
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Agilent Spectrum Analyzer - Swept SA	Duty Oy				- ē ×
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20.0 Content 2.412000000 GHz center 2.412000000 GHz ces BW 8 MHz KR MODE TRCI SCL X	Y	FUNCTION	FUNCTION WIDTH	Sweep 100.0 n	
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000 Image: constraint of the second sec	Y	FUNCTION	FUNCTION WIDTH	-	ns (10001 pts)
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odB/div Ref 20.00 dB			1			5	.21 dBm
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			III	· · · · ·			•
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2 3 4 5 6							
2 3 4 5 6 7 7 8 9 9							





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Agilent Spectrum Analyzer - Swe		ty Cycle N	VINT NZU	2437101112	<u></u>		
							- F 🔀
	Ω AC 00000 GHz	SENSE:IM		ALIGN AUTO #Avg Typ		Т	:00 PM Jul 22, 2023
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nter Freq 2.4370	2 AC 000000 GHz PN IFG .36 dB	0:Fast ↔ Trig	: Free Run			™ Mkr1	:00 PM Jul 22, 2023
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Ref Offset 2. dB/div Ref 20.00 dB/div Ref 20.00 db/div locks biological db/div locks biologi	2 AC 00000 GHz PN IFG 36 dB dBm	0: Fast ↔ Trig ain:Low #Att	j: Free Run ten: 30 dB	#Avg Typ	e: RMS	™ Mkr1	00 PM Jul 22, 2023 RACE 1 2 3 4 5 6 TYPE WWWWWW DET PNNNNN 50.00 ms 3.58 dBm
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Ref Offset 2. dB/div Ref Offset 2. dB/div Ref 20.00 db/div <td>AC OUTON CH2</td> <td>C: Fast #Att #Att</td> <td>r Free Run ten: 30 dB</td> <td></td> <td>e: RMS</td> <td>T Mkr1</td> <td>Span 0 Hz</td>	AC OUTON CH2	C: Fast #Att #Att	r Free Run ten: 30 dB		e: RMS	T Mkr1	Span 0 Hz
Ref Offset 2, B/div Ref Offset 2, B/div Ref 20,00 B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B	AC OUTON CH2	C: Fast #Att #Att	r Free Run ten: 30 dB		e: RMS	T Mkr1	Span 0 Hz
Ref Offset 2, dB/div Ref Offset 2, dB/div Ref 20,00 g	AC OUTON CH2	C: Fast #Att #Att	r Free Run ten: 30 dB		e: RMS	T Mkr1	Span 0 Hz
Ref Offset 2, dB/div Ref Offset 2, dB/div Ref 20,00 g	AC OUTON CH2	C: Fast #Att #Att #VBW 8.0 Y	r Free Run ten: 30 dB		e: RMS	T Mkr1	Span 0 Hz





	ctrum Analyzer - Swept SA					1		- 6 -
RL Center F	RF 50 Ω AC req 2.462000000			g: Free Run tten: 30 dB	ALIGN AUTO #Avg Tyj	be: RMS	TRAC	PM Jul 22, 202 E 1 2 3 4 5 E WWWWW T P N N N N
0 dB/div	Ref Offset 2.39 dB Ref 20.00 dBm						Mkr1 5(1.9	0.00 ms 93 dBn
.og 10.0				1_				
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20.0								
30.0								
40.0								
50.0								
60.0								
70.0								
Center 2. Res BW 3	462000000 GHz 8 MHz		#VBW 8.0) MHz		Sweep	S 100.0 ms (1	pan 0 Hz 0001 pts
NKR MODE T			Y	FUNCTION	FUNCTION WIDTH	Fl	INCTION VALUE	
1 N [·]	1 t	50.00 ms	1.93 dBm					
3								
5								-
7								
8								
10								
11								

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14. Antenna Requirement

14.1 Limit

15.203 requirement: For intentional device, according to 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.

14.1 Test Result

The EUT antenna is FPC antenna, The antenna gain is 2.41dBi, fulfill the requirement of this section.

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15. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

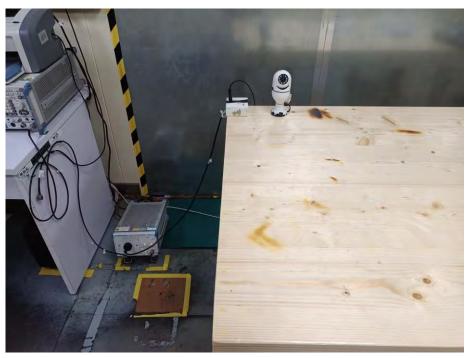
No.: BCTC/RF-EMC-005

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16. EUT Test Setup Photographs

Conducted emissions



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Radiated Measurement Photos



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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

***** END *****

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