

TEST REPORT

Report No.:	BCTC2305556863-3E
Applicant:	Shenzhen SwellPro Technology CO., LTD
Product Name:	Fisherman Max
Model/Type reference:	FD2
Tested Date:	2023-07-01 to 2023-08-24
Issued Date:	2023-08-25

Shenzhen BCTC Testing Co., Ltd.



No. : BCTC/RF-EMC-005

Page: 1 of 69

Edition : B.0



FCC ID: 2AQRL-FD2

Product Name:	Fisherman Max
Trademark:	SwellPro
Model/Type reference:	FD2 FD2+
Prepared For:	Shenzhen SwellPro Technology CO., LTD
Address:	5 Floor 2 Building ZhuoLin Industrial Park, LiaoKeng Third Industrial park, LangXin Community, ShiYan Street, Baoan District, Shenzhen,China, 518000
Manufacturer:	Shenzhen SwellPro Technology CO., LTD
Address:	5 Floor 2 Building ZhuoLin Industrial Park, LiaoKeng Third Industrial park, LangXin Community, ShiYan Street, Baoan District, Shenzhen,China, 518000
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:	2023-05-23
Sample tested Date:	2023-07-01 to 2023-08-24
Issue Date:	2023-08-25
Report No.:	BCTC2305556863-3E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.
Tested	by: Approved by:

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewer

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Page: 2 of 69



Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Summary	6
3. Measurement Uncertainty	
4. Product Information And Test Setup	
4.1 Product Information	
4.2 Test Setup Configuration	8
4.3 Support Equipment	
4.4 Channel List	9
4.5 Test Mode	
4.6 Table Of Parameters Of Text Software Setting	10
5. Test Facility And Test Instrument Used	
5.1 Test Facility	11
5.2 Test Instrument Used	11
6. Conducted Emissions	13
6.1 Block Diagram Of Test Setup	13
6.2 Limit	13
6.3 Test Procedure	
6.4 EUT Operating Conditions	14
6.5 Test Result	14
7. Radiated Emissions	15
7.1 Block Diagram Of Test Setup	
7.2 Limit	16
7.3 Test Procedure	
7.4 EUT Operating Conditions	
7.5 Test Result	
8. Radiated Band Emission Measurement And Restricted Bands	
8.1 Block Diagram Of Test Setup	
8.2 Limit	24
8.3 Test Procedure	
8.4 EUT Operating Conditions	25
8.5 Test Result	
 9. Power Spectral Density Test 9.1 Block Diagram Of Test Setup 9.2 Limit 9.3 Test Procedure 	
9.1 Block Diagram Of Test Setup	
9.2 Limit	28
9.3 Test Procedure	
9.4 FUL Operating Conditions	
9.5 Test Result	29
 10. Bandwidth Test	35
10.1 Block Diagram Of Test Setup	35
10.2 Limit	35
10.3 Test Procedure	35
10.4 EUT Operating Conditions	,
10.5 Test Result	

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11. Peak Output Power Test	42
11.1 Block Diagram Of Test Setup	
11.2 Limit	
11.3 Test Procedure	
11.4 EUT Operating Conditions	
11.5 Test Result	43
12. 100 KHz Bandwidth Of Frequency Band Edge	44
12.1 Block Diagram Of Test Setup	44
12.2 Limit	44
12.3 Test Procedure	44
12.4 EUT Operating Conditions	44
12.5 Test Result	45
13. Duty Cycle Of Test Signal	60
13.1 Standard Requirement	60
13.2 Formula	60
13.3 Test Procedure	60
13.4 Test Result	60
14. Antenna Requirement	66
14.1 Limit	66
14.2 Test Result	66
15. EUT Photographs	67
16. EUT Test Setup Photographs	68

(Note: N/A Means Not Applicable)

Page: 4 of 69



1. Version

Report No.	Issue Date	Description	Approved
BCTC2305556863-3E	2023-08-25	Original	Valid





2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	N/A ¹
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

Remark:

1. The EUT is powered by the DC only, the test item is not applicable.



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
11	Power spectral density	U=1.19dB
12	Conducted spurious emissions	U=0.55dB
13	Occupied bandwidth	U=3.46%



4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	FD2 FD2+
Model differences:	All the model are the same circuit and RF module, except model names.
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:	OFDM/DSSS
Number Of Channel	802.11b/g/n20MHz:11 CH
Antenna installation:	FPC antenna
Antenna Gain:	2.7 dBi
Ratings:	DC 22.2V From Battery

4.2 Test Setup Configuration

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

Radiated Spurious Emission





4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note

ltem	Shielded Type	Ferrite Core	Length	Note

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.

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		

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No. : BCTC/RF-EMC-005

Page: 9 of 69



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.

configuration mode(c) monitoriou		
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	Link Mode	

Radiated Emission		
Final Test Mode	Description	
Mode 4	Link Mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	802.11b CH1/ CH6/ CH11	
Mode 2	802.11g CH1/ CH6/ CH11	
Mode 3	802.11n20 CH1/ CH6/ CH11	

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, 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		CMD	
Frequency	2412 MHz	2437 MHz	2462 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, Tangwei, 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

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Meter	Keysight	E4419	١	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	/	1		
Software	MAIWEI	MTS 8310	١			

5.2 Test Instrument Used



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 Antenna(18G Hz-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	\	\	

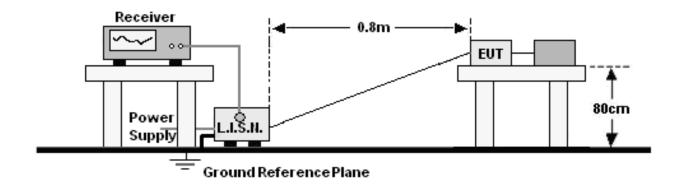
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Page: 12 of 69



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)		
	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

The EUT is powered by the DC only, the test item is not applicable.

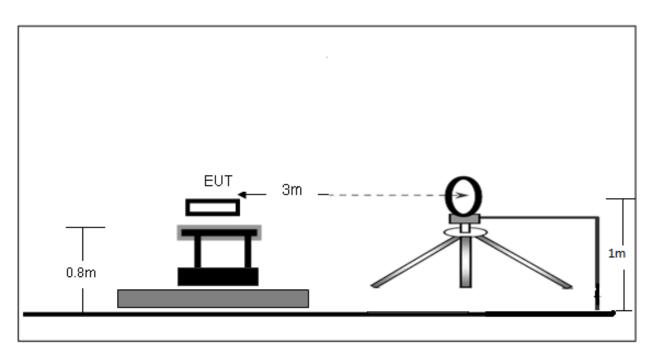
Page: 14 of 69



7. Radiated Emissions

7.1 Block Diagram Of Test Setup

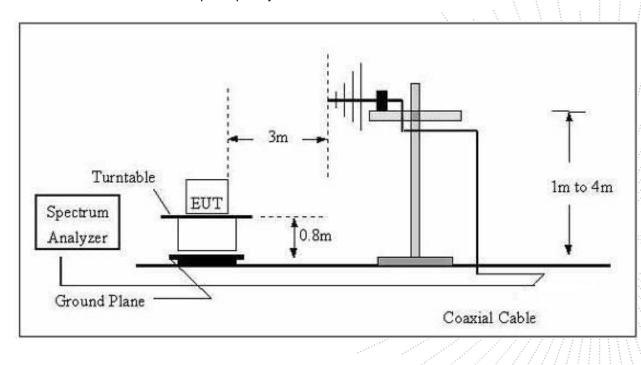
(A) Radiated Emission Test-Up Frequency Below 30MHz





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

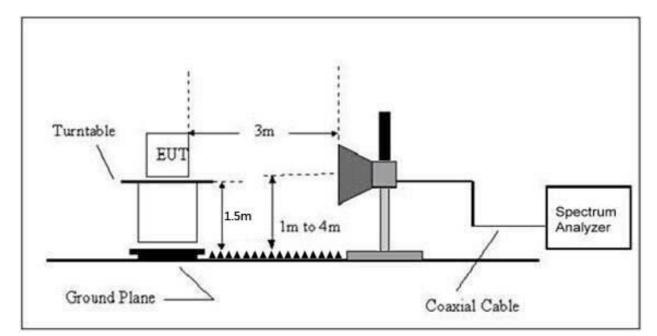


No. :BCTC/RF-EMC-005

Edition : B.0



(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.

Field Strength	Distance	Field Strength Limit at 3m Distance		
uV/m	(m)	uV/m	dBuV/m	
2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
30	30	100 * 30	20log ⁽³⁰⁾ + 40	
100	3	100	20log ⁽¹⁰⁰⁾	
150	3	150	20log ⁽¹⁵⁰⁾	
200	3	200	20log ⁽²⁰⁰⁾	
500	3	500	20log ⁽⁵⁰⁰⁾	
	uV/m 2400/F(kHz) 24000/F(kHz) 30 100 150 200	uV/m (m) 2400/F(kHz) 300 24000/F(kHz) 30 30 30 100 3 150 3 200 3	uV/m (m) uV/m 2400/F(kHz) 300 10000 * 2400/F(kHz) 24000/F(kHz) 30 100 * 24000/F(kHz) 30 30 100 * 30 100 3 100 150 3 150 200 3 200	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY		Limit (dBuV/m) (at 3M)
(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.



Note:

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

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

Temperature:	26 ℃	Relative Humidity:	24%
Pressure:	101 kPa	Test Voltage :	DC 22.2V

Polarization :

Below 30MHz

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

Note:

Test Mode :

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);

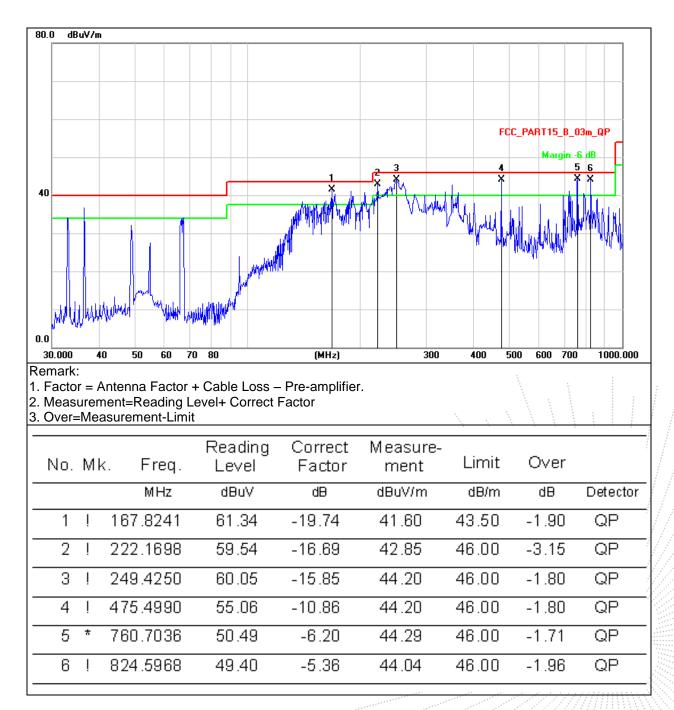
Limit line = specific limits(dBuv) + distance extrapolation factor.

Mode 2



Between 30MHz - 1GHz

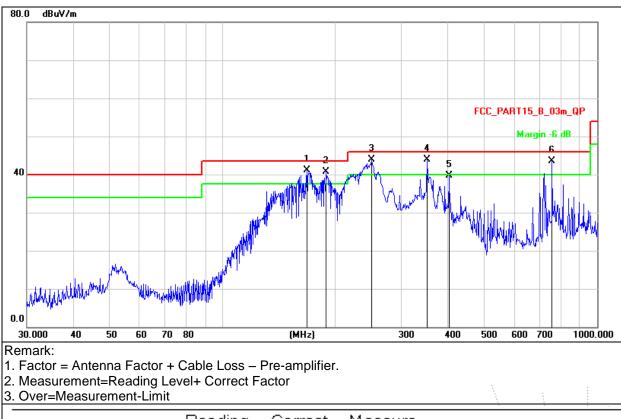
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage :	DC 22.2V







Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage :	DC 22.2V



No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	ļ	167.8241	60.84	-19.74	41.10	43.50	-2.40	QP
2	ļ	189.0741	58.97	-18.17	40.80	43.50	-2.70	QP
3	ļ	250.3010	59.65	-15.82	43.83	46.00	-2.17	QP
4	*	351.7078	56.74	-12.77	43.97	46.00	-2.03	QP
5		401.8385	51.91	-12.18	39.73	46.00	-6.27	QP
6	ļ	758.0407	49.74	-6.24	43.50	46.00	-2.50	QP

No. :BCTC/RF-EMC-005

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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			
	Low channel:2412MHz									
V	4824.00	68.80	-19.95	48.85	74.00	-25.15	PK			
V	4824.00	60.63	-19.95	40.68	54.00	-13.32	AV			
V	7236.00	60.21	-14.14	46.07	74.00	-27.93	PK			
V	7236.00	49.56	-14.14	35.42	54.00	-18.58	AV			
Н	4824.00	67.69	-19.95	47.74	74.00	-26.26	PK			
Н	4824.00	57.49	-19.95	37.54	54.00	-16.46	AV			
Н	7236.00	57.99	-14.14	43.85	74.00	-30.15	PK			
Н	7236.00	50.48	-14.14	36.34	54.00	-17.66	AV			
		Mic	dle channel:2	437MHz						
V	4874.00	65.41	-19.85	45.56	74.00	-28.44	PK			
V	4874.00	58.67	-19.85	38.82	54.00	-15.18	AV			
V	7311.00	54.50	-13.93	40.57	74.00	-33.43	PK			
V	7311.00	46.20	-13.93	32.27	54.00	-21.73	AV			
Н	4874.00	62.23	-19.85	42.38	74.00	-31.62	PK			
Н	4874.00	51.65	-19.85	31.80	54.00	-22.20	AV			
Н	7311.00	52.04	-13.93	38.11	74.00	-35.89	PK			
Н	7311.00	43.85	-13.93	29.92	54.00	-24.08	AV			
		Hi	gh channel:24	l62MHz						
V	4924.00	66.54	-19.75	46.79	74.00	-27.21	PK			
V	4924.00	58.02	-19.75	38.27	54.00	-15.73	AV			
V	7386.00	57.92	-13.72	44.20	74.00	-29.80	PK			
V	7386.00	47.93	-13.72	34.21	54.00	-19.79	AV			
Н	4924.00	63.73	-19.75	43.98	74.00	-30.02	PK			
Н	4924.00	54.42	-19.75	34.67	54.00	-19.33	AV			
Н	7386.00	56.80	-13.72	43.08	74.00	-30.92	PK			
Н	7386.00	49.12	-13.72	35.40	54.00	-18.60	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.



802.11g

Polar	Frequency	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	70.43	-19.95	50.48	74.00	-23.52	PK			
V	4824.00	60.55	-19.95	40.60	54.00	-13.40	AV			
V	7236.00	61.03	-14.14	46.89	74.00	-27.11	PK			
V	7236.00	50.83	-14.14	36.69	54.00	-17.31	AV			
Н	4824.00	66.57	-19.95	46.62	74.00	-27.38	PK			
Н	4824.00	55.98	-19.95	36.03	54.00	-17.97	AV			
Н	7236.00	58.89	-14.14	44.75	74.00	-29.25	PK			
Н	7236.00	51.82	-14.14	37.68	54.00	-16.32	AV			
		Mic	ldle channel:2	437MHz						
V	4874.00	68.58	-19.85	48.73	74.00	-25.27	PK			
V	4874.00	60.40	-19.85	40.55	54.00	-13.45	AV			
V	7311.00	59.85	-13.93	45.92	74.00	-28.08	PK			
V	7311.00	51.12	-13.93	37.19	54.00	-16.81	AV			
Н	4874.00	64.55	-19.85	44.70	74.00	-29.30	PK			
Н	4874.00	54.38	-19.85	34.53	54.00	-19.47	AV			
Н	7311.00	57.54	-13.93	43.61	74.00	-30.39	PK			
Н	7311.00	49.70	-13.93	35.77	54.00	-18.23	AV			
		Hi	gh channel:24	62MHz						
V	4924.00	70.75	-19.75	51.00	74.00	-23.00	PK			
V	4924.00	62.73	-19.75	42.98	54.00	-11.02	AV			
V	7386.00	62.89	-13.72	49.17	74.00	-24.83	PK			
V	7386.00	51.94	-13.72	38.22	54.00	-15.78	AV			
Н	4924.00	68.52	-19.75	48.77	74.00	-25.23	PK			
Н	4924.00	58.93	-19.75	39.18	54.00	-14.82	AV			
Н	7386.00	61.81	-13.72	48.09	74.00	-25.91	PK			
Н	7386.00	53.00	-13.72	39.28	54.00	-14.72	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.

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Page: 22 of 69



802.11n20

Polar	Frequency	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	68.38	-19.95	48.43	74.00	-25.57	PK			
V	4824.00	59.50	-19.95	39.55	54.00	-14.45	AV			
V	7236.00	59.12	-14.14	44.98	74.00	-29.02	PK			
V	7236.00	49.85	-14.14	35.71	54.00	-18.29	AV			
Н	4824.00	64.66	-19.95	44.71	74.00	-29.29	PK			
Н	4824.00	55.60	-19.95	35.65	54.00	-18.35	AV			
Н	7236.00	57.32	-14.14	43.18	74.00	-30.82	PK			
Н	7236.00	50.01	-14.14	35.87	54.00	-18.13	AV			
		Mic	ldle channel:2	437MHz						
V	4874.00	65.43	-19.85	45.58	74.00	-28.42	PK			
V	4874.00	58.26	-19.85	38.41	54.00	-15.59	AV			
V	7311.00	55.73	-13.93	41.80	74.00	-32.20	PK			
V	7311.00	46.66	-13.93	32.73	54.00	-21.27	AV			
Н	4874.00	61.45	-19.85	41.60	74.00	-32.40	PK			
Н	4874.00	51.49	-19.85	31.64	54.00	-22.36	AV			
Н	7311.00	53.85	-13.93	39.92	74.00	-34.08	PK			
Н	7311.00	46.18	-13.93	32.25	54.00	-21.75	AV			
		Hi	gh channel:24	62MHz						
V	4924.00	66.44	-19.75	46.69	74.00	-27.31	PK			
V	4924.00	57.78	-19.75	38.03	54.00	-15.97	AV			
V	7386.00	58.37	-13.72	44.65	74.00	-29.35	PK			
V	7386.00	47.66	-13.72	33.94	54.00	-20.06	AV			
Н	4924.00	64.78	-19.75	45.03	74.00	-28.97	PK			
Н	4924.00	54.72	-19.75	34.97	54.00	-19.03	AV			
Н	7386.00	55.82	-13.72	42.10	74.00	-31.90	PK			
Н	7386.00	47.05	-13.72	33.33	54.00	-20.67	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.

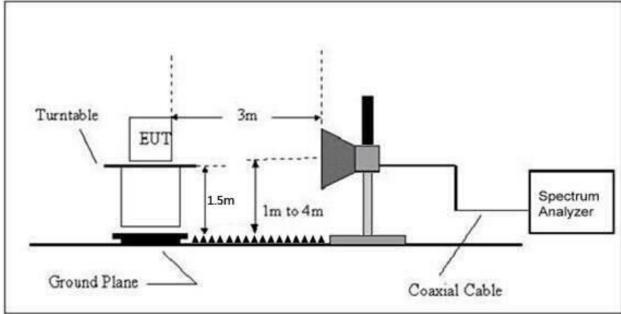
5.All the Modulation are test, the worst mode is 802.11b, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

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			



LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY	Limit (dBuV/m) (at 3M)				
(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.



8.5 Test Result

	Polar (H/V)	Frequency (MHz)	Reading Level	Correct Factor	Measure- ment (dBuV/m)	Lin (dBu		Result		
	(100)	(11112)	(dBuV/m)	(dB)	РК	PK	AV			
-	Low Channel 2412MHz									
	Н	2390.00	71.52	-25.43	46.09	74.00	54.00	PASS		
	Н	2400.00	75.65	-25.40	50.25	74.00	54.00	PASS		
	V	2390.00	71.95	-25.43	46.52	74.00	54.00	PASS		
802.11b	V	2400.00	76.47	-25.40	51.07	74.00	54.00	PASS		
002.110		High Channel 2462MHz								
	Н	2483.50	75.67	-25.15	50.52	74.00	54.00	PASS		
	Н	2500.00	70.18	-25.10	45.08	74.00	54.00	PASS		
	V	2483.50	75.00	-25.15	49.85	74.00	54.00	PASS		
	V	2500.00	70.83	-25.10	45.73	74.00	54.00	PASS		
	Low Channel 2412MHz									
	Н	2390.00	71.08	-25.43	45.65	74.00	54.00	PASS		
	Н	2400.00	75.82	-25.40	50.42	74.00	54.00	PASS		
	V	2390.00	71.26	-25.43	45.83	74.00	54.00	PASS		
802.11g	V	2400.00	75.65	-25.40	50.25	74.00	54.00	PASS		
002.11g			Hig	h Channel 24	462MHz					
	Н	2483.50	73.38	-25.15	48.23	74.00	54.00	PASS		
	Н	2500.00	68.21	-25.10	43.11	74.00	54.00	PASS		
	V	2483.50	75.76	-25.15	50.61	74.00	54.00	PASS		
Downorder	V	2500.00	71.42	-25.10	46.32	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.

No. :BCTC/RF-EMC-005

Page: 26 of 69



	Polar (H/V)		equency (MHz) Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m) PK	Limits (dBuV/m)		Result
		(11112)				PK	AV	
	Low Channel 2412MHz							
802.11	Н	2390.00	71.56	-25.43	46.13	74.00	54.00	PASS
	Н	2400.00	75.03	-25.40	49.63	74.00	54.00	PASS
	V	2390.00	70.64	-25.43	45.21	74.00	54.00	PASS
	V	2400.00	75.38	-25.40	49.98	74.00	54.00	PASS
n20	High Channel 2462MHz							
	Н	2483.50	73.80	-25.15	48.65	74.00	54.00	PASS
	Н	2500.00	69.66	-25.10	44.56	74.00	54.00	PASS
	V	2483.50	74.03	-25.15	48.88	74.00	54.00	PASS
	V	2500.00	70.50	-25.10	45.40	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.

Page: 27 of 69

Edition: B.0



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

Page: 28 of 69

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9.5 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 22.2V

Mode	Frequency	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	2412 MHz	-2.96	-8.19	8	PASS
b	2437 MHz	-2.63	-7.86	8	PASS
	2462 MHz	-3.9	-9.13	8	PASS
	2412 MHz	-6.92	-12.15	8	PASS
g	2437 MHz	-6.66	-11.89	8	PASS
	2462 MHz	-6.51	-11.74	8	PASS
	2412 MHz	-7.65	-12.88	8	PASS
N 20	2437 MHz	-8.09	-13.32	8	PASS
	2462 MHz	-7.41	-12.64	8	PASS

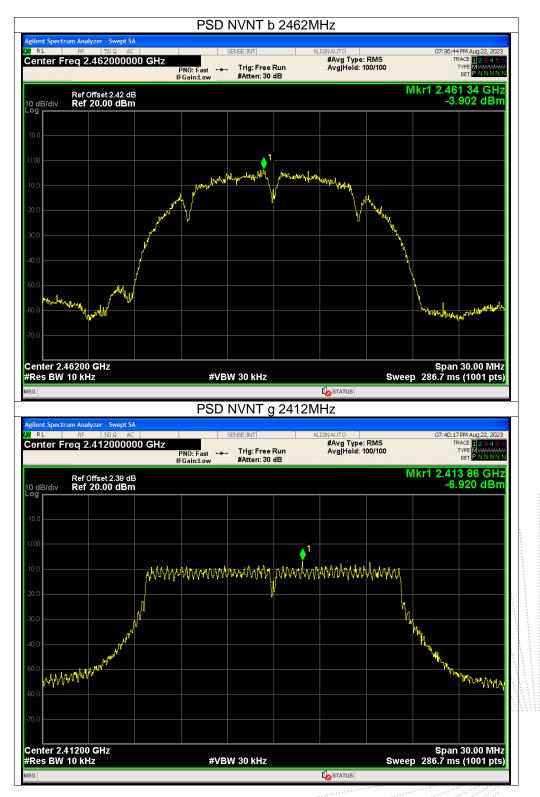
Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23

Page: 29 of 69



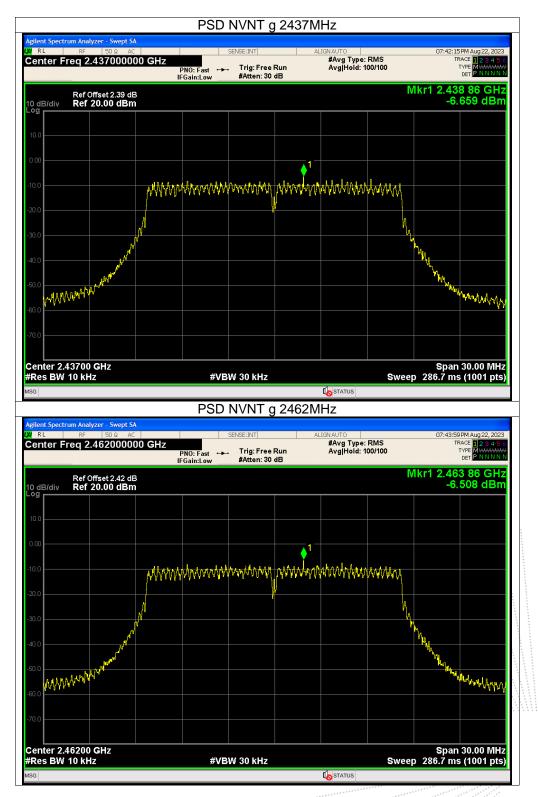




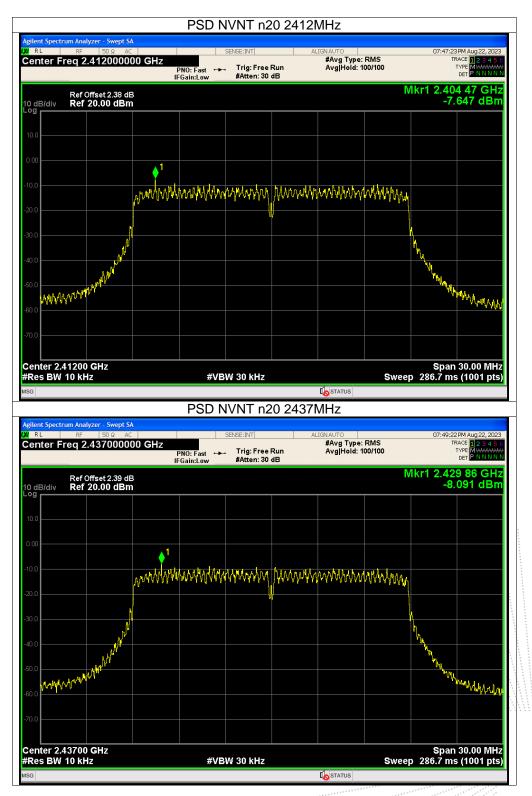




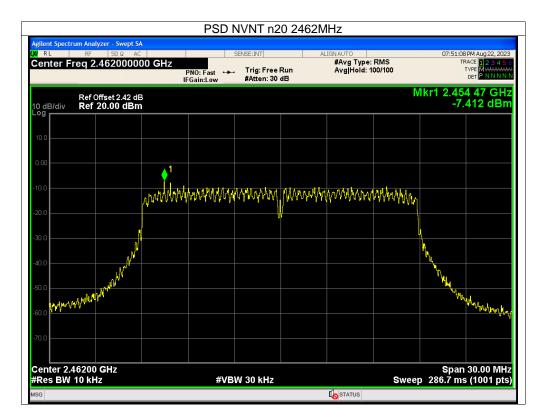












No. :BCTC/RF-EMC-005

Page: 34 of 69



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

Page: 35 of 69

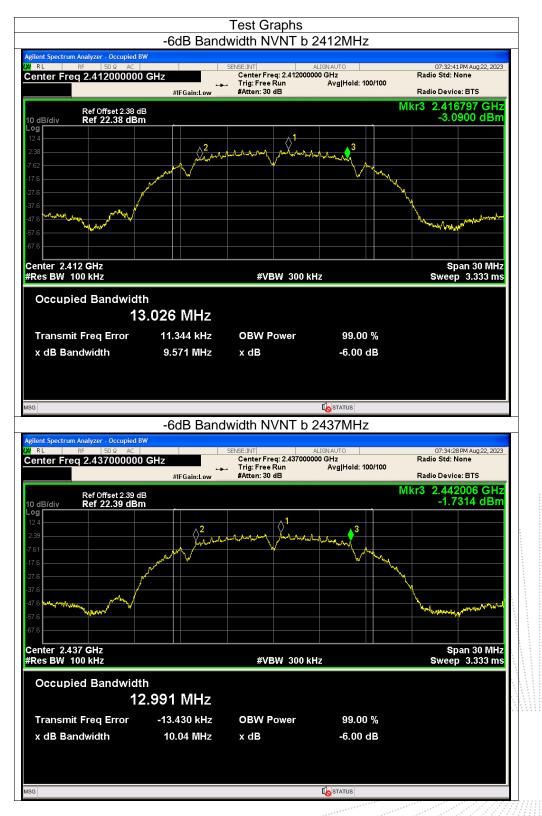


10.5 Test Result

Temperature :	26 ℃	Relative Humid	ity : 54%		
Pressure :	101kPa	Test Voltage :	DC 22	DC 22.2V	
Mode	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result	
	2412	9.571	500	Pass	
b	2437	10.039	500	Pass	
	2462	9.071	500	Pass	
	2412	16.341	500	Pass	
g	2437	16.349	500	Pass	
	2462	16.306	500	Pass	
N 20	2412	17.044	500	Pass	
	2437	16.948	500	Pass	
	2462	17.562	500	Pass	

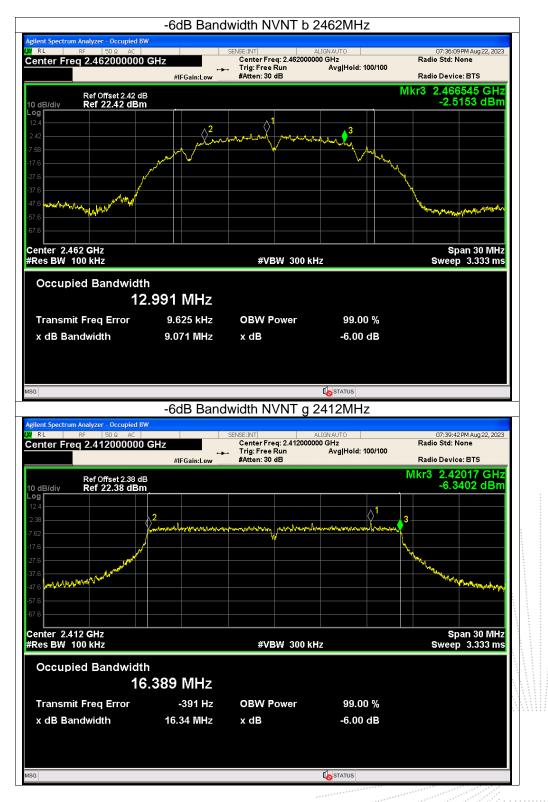
Page: 36 of 69





Page: 37 of 69

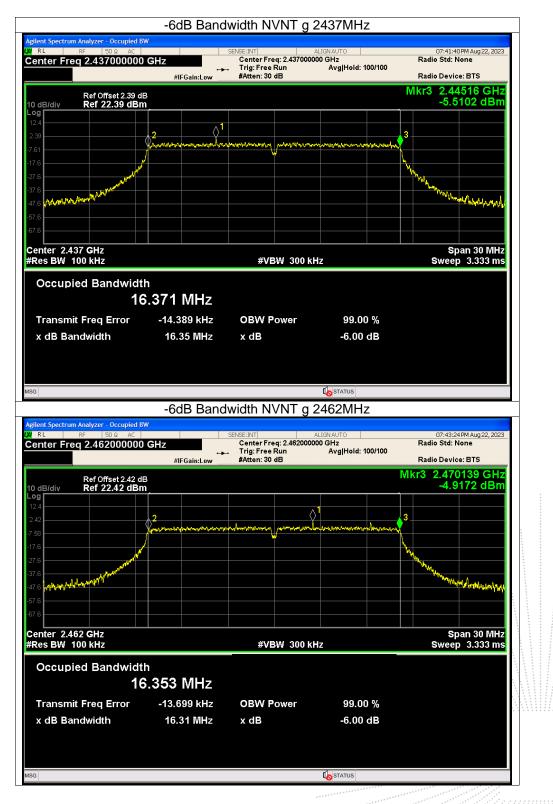




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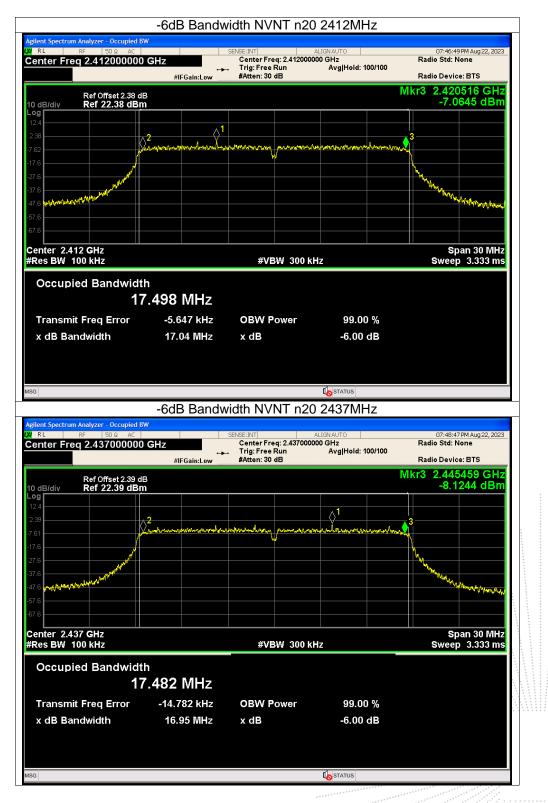




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	-6dB Bandw	vidth NVNT n20) 2462MHz	
Agilent Spectrum Analyzer - Occupied BW (M RL RF 50 Ω AC Center Freq 2.462000000 C C C		Center Freq: 2.4620000	ALIGNAUTO 000 GHz Avg Hold: 100/100	07:50:32PM Aug 22, 2023 Radio Std: None Radio Device: BTS
Ref Offset 2.42 dB 10 dB/div Ref 22.42 dBm Log	#il Galit.Low			Mkr3 2.470772 GHz -8.5647 dBm
12.4 2.42 -7.58	genggunaan dagang bura kang buran kang	manadan per per and a second	1	3
-17.6				A the amount of the start
-67.6				
Center 2.462 GHz #Res BW 100 kHz		#VBW 300 k	Hz	Span 30 MHz Sweep 3.333 ms
Occupied Bandwidth	480 MHz			
Transmit Freq Error	-9.303 kHz	OBW Power	99.00 %	
x dB Bandwidth	17.56 MHz	x dB	-6.00 dB	
MSG			STATUS	

Page: 41 of 69



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

No. :BCTC/RF-EMC-005

Page: 42 of 69

Edition: B.0



11.5 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 22.2V
	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
	2412	13.97	30
802.11b	2437	13.55	30
	2462	13.56	30
	2412	12.27	30
802.11g	2437	12.47	30
	2462	12.5	30
	2412	10.86	30
802.11n20	2437	11.02	30
	2462	11.12	30

Page: 43 of 69



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

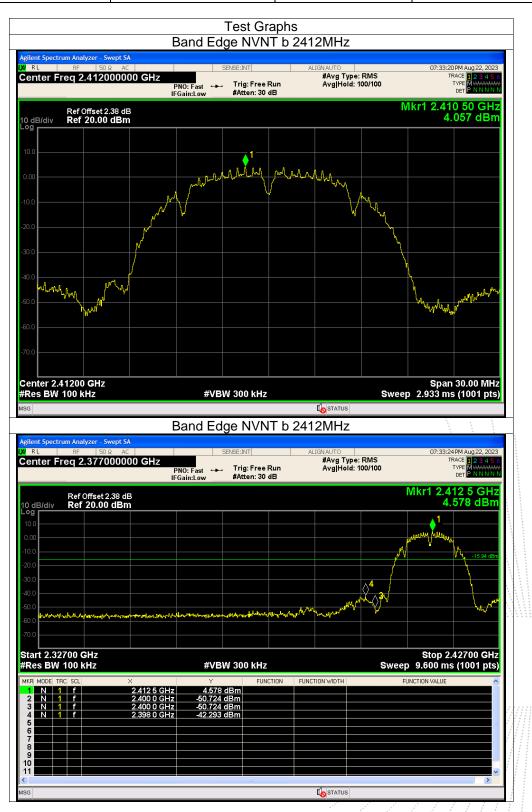
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing. Note: Power Spectral Density(dBm)=Reading+Cable Loss

Page: 44 of 69



12.5 Test Result

Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 22.2V



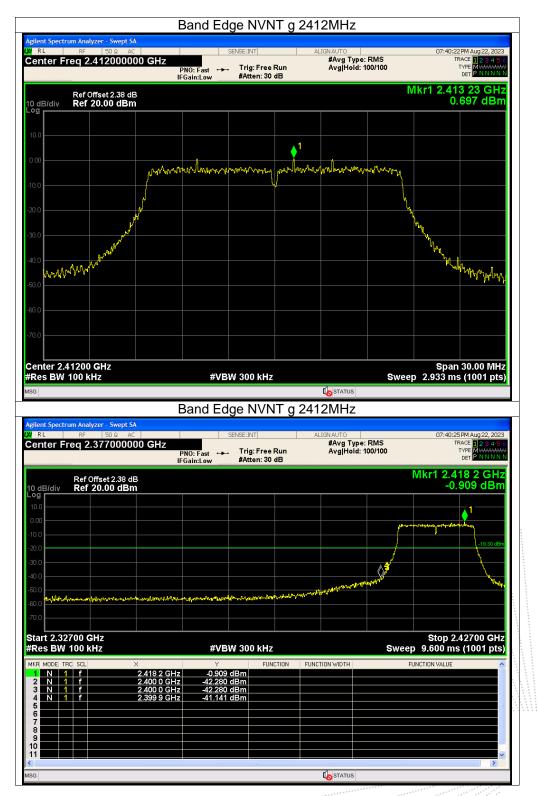


Page: 45 of 69

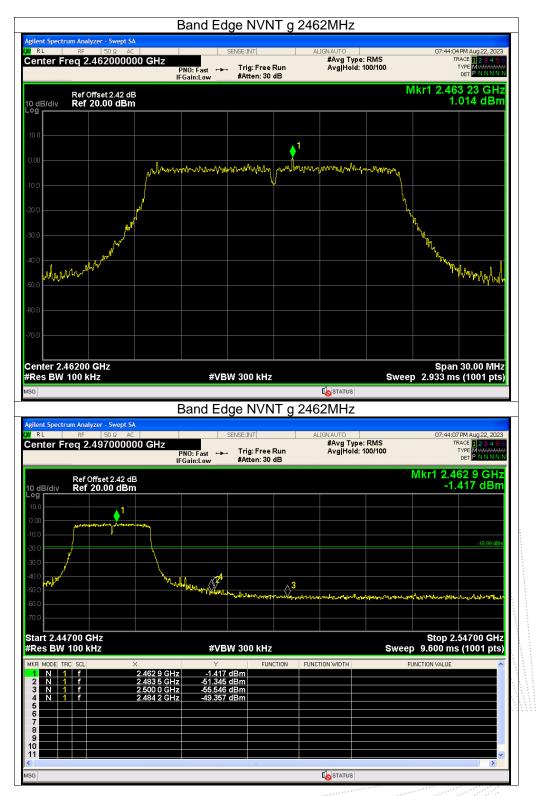






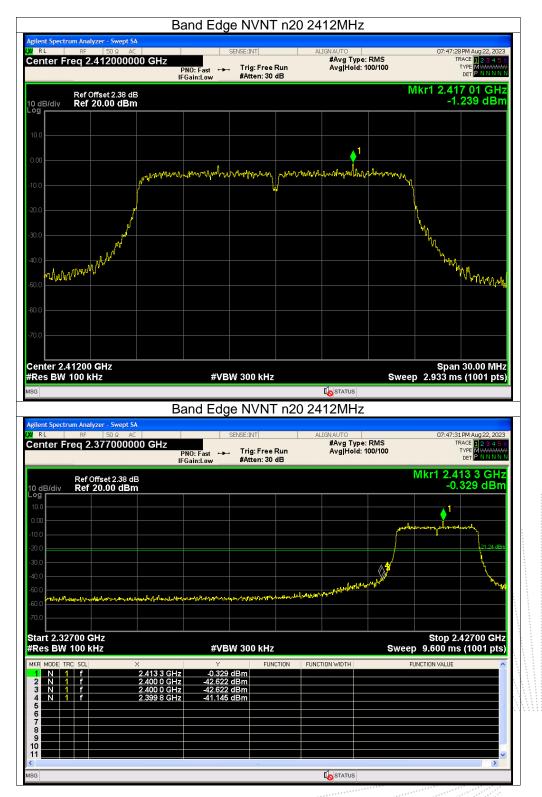






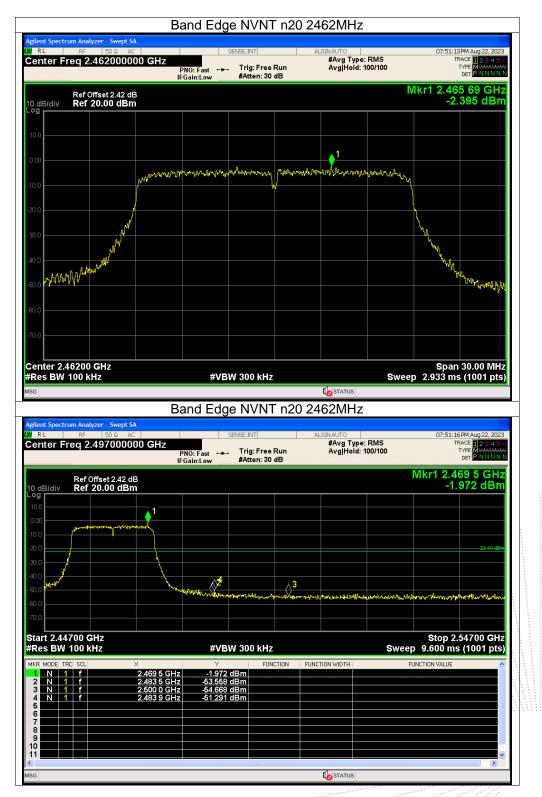
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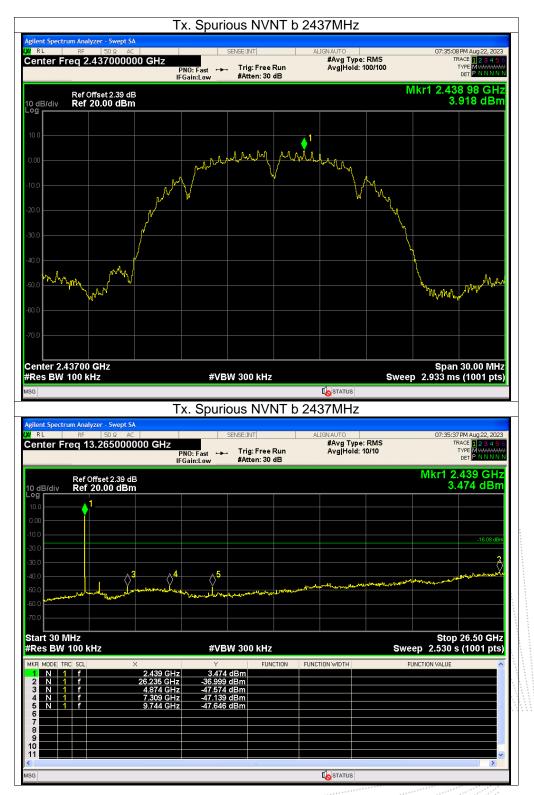
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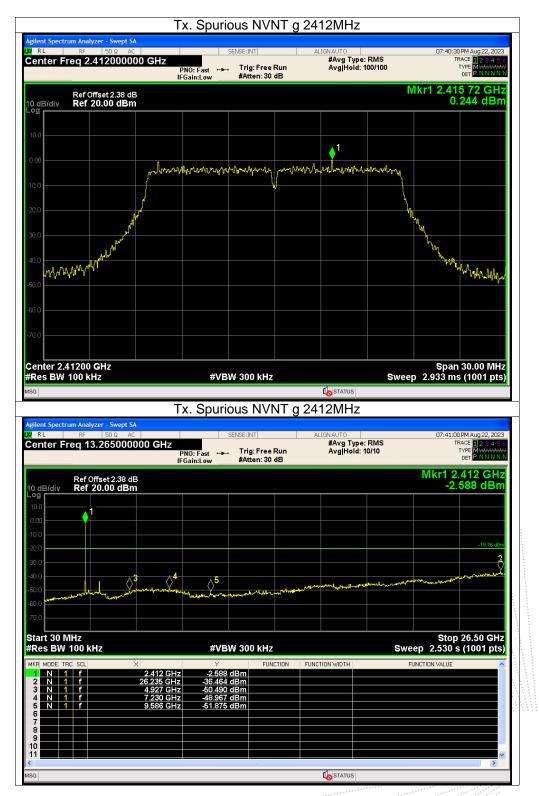






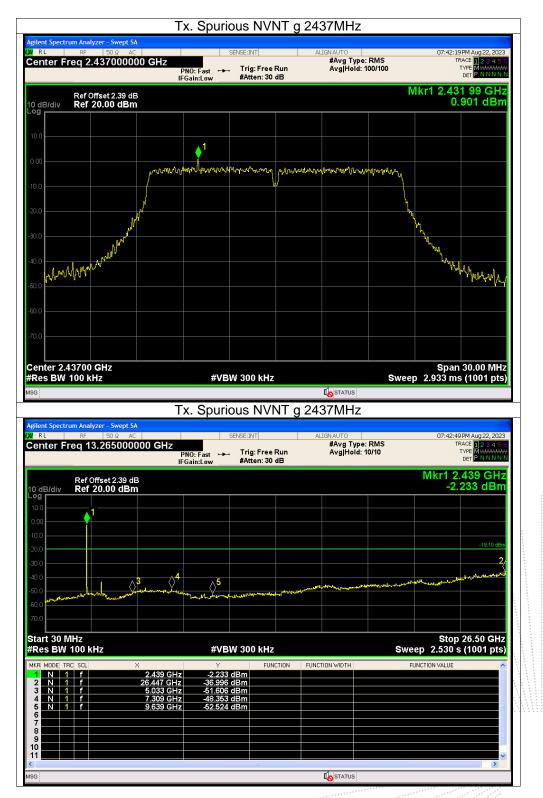






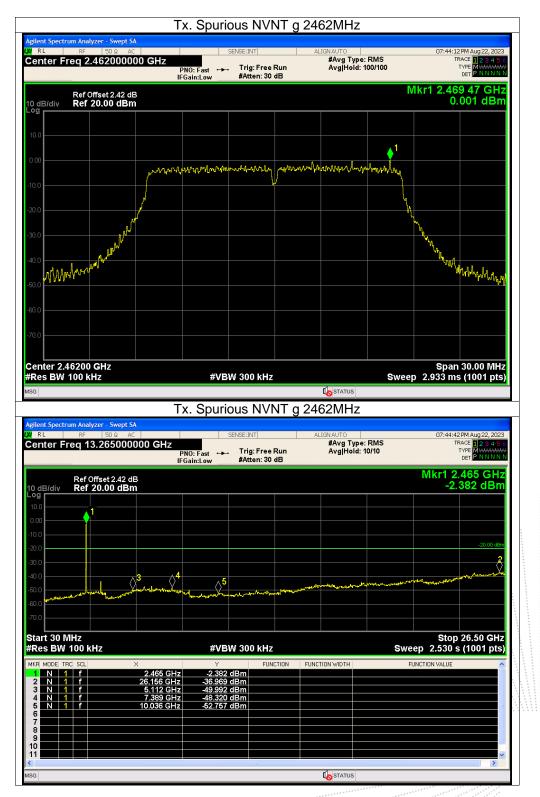
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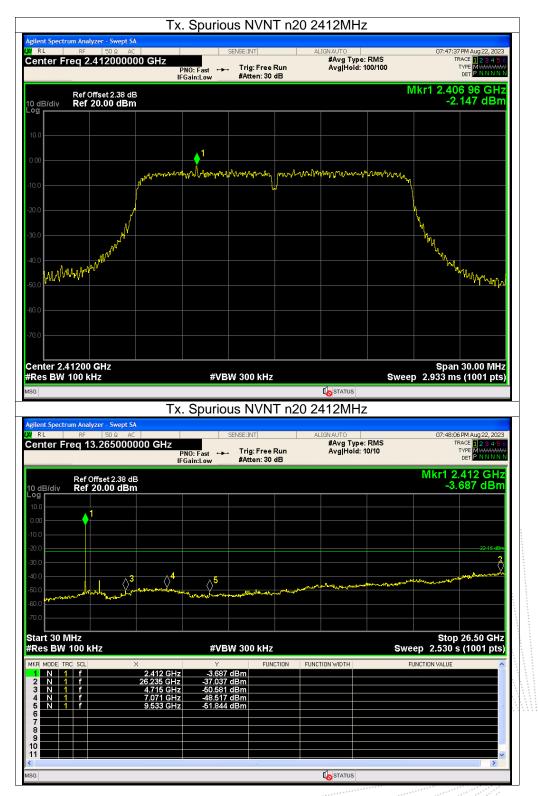






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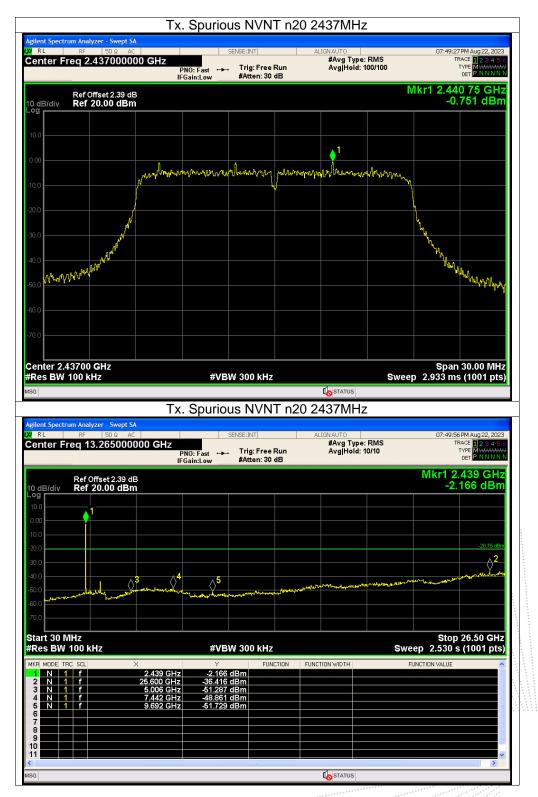




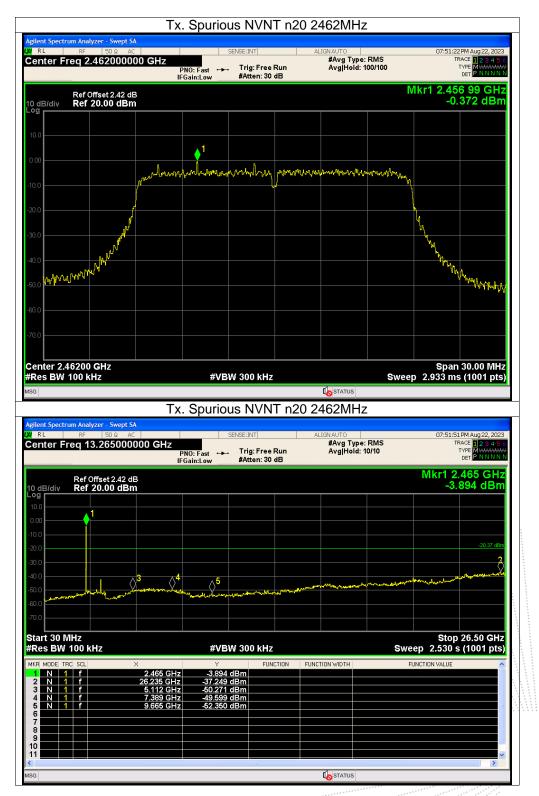
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13. Duty Cycle Of Test Signal

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

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	100	0	0
NVNT	b	2437	100	0	0
NVNT	b	2462	100	0	0
NVNT	g	2412	100	0	0
NVNT	g	2437	100	0	0
NVNT	g	2462	100	0	0
NVNT	n20	2412	100	0	0
NVNT	n20	2437	100	0	0
NVNT	n20	2462	100	0	0

Page: 60 of 69



<mark>ilent Spectrum Analyzer - Swej</mark> RL RF 50 Ω	pt SA			ALIGN AUTO		07:52	43PM Aug 22, 2023
enter Freq 2.41200	0000 GHz	Fast 🛶 Trig:	Free Run en: 30 dB		/pe: RMS	0,32.	TRACE 123456 TYPE WWWWWW DET PNNNN
Ref Offset 2.38 dB/div Ref 20.00 d							50.00 ms 1.36 dBm
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enter 2.412000000 G es BW 8 MHz	Hz	#VBW 8.0	MHz		Swee		Span 0 Hz 5 (10001 pts)
R MODE TRC SCL	× 50.00 ms	ү 11.36 dBm	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	_
	50.00 ms	11.50 UBIII					
							3
							<u> </u>
				STATUS			
		ty Cycle N	VNT b				
l <mark>ent Spectrum Analyzer - Swep</mark> RL RF 50 Ω	pt SA AC	SENSE:IN	Г	2437MHz alignauto	-	07:52:	56 PM Aug 22, 2023 TRACE 1 2 3 4 5 6
l <mark>ent Spectrum Analyzer - Swep</mark> RL RF 50 Ω	AC A	SENSE:IN Fast + Trig:		2437MHz alignauto			TRACE 123456 TYPE WWWWWW DET PNNNN
lent Spectrum Analyzer - Swep RL RE 50 0 enter Freq 2.437000 Ref Offset 2.33 dB/div Ref 20.00 d	AC A	SENSE:IN Fast + Trig:	Free Run	2437MHz alignauto		Mkr1	TRACE 1 2 3 4 5 6
RL RF 50 Q RL RF 50 Q enter Freq 2.437001 Ref Offset 2.3 dB/div Ref 20.00 d	AC A	SENSE:IN Fast + Trig:	Free Run	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
Ient Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437001 Ref Offset 2.3 dB/div Ref 20.00 d g	AC A	SENSE:IN Fast + Trig:	Free Run en: 30 dB	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
Ient Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437000 Ref Offset 2.3 dB/div Ref 20.00 d 9 0 0 0 0	AC A	SENSE:IN Fast + Trig:	Free Run en: 30 dB	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
RE Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437000 Ref Offset 2.3 dB/div Ref 20.00 d 9 0 0 0 0 0 0	AC A	SENSE:IN Fast + Trig:	Free Run en: 30 dB	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
Ient Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437001 Second Colspan="2">Genter Freq 2.437001 Bit div Ref Offset 2.3 Genter Freq 20.00 d	AC A	SENSE:IN Fast + Trig:	Free Run en: 30 dB	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
Ient Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437001 Second 2 Second 2 Bldiv Ref Offset 2.3 Ref 20.00 d Second 2 Bldiv Ref 20.00 d Second 2	AC A	SENSE:IN Fast + Trig:	Free Run en: 30 dB	2437MHz alignauto		Mkr1	TRACE 123456 TYPE WWWWWWW DET PNNNNN
RL Swep RF Soc Ref Offset 2.33 dB/div Ref Offset 2.33 dB/div Ref 20.00 d 9	Pt SA AC AC PNO: IFGair 9 dB Bm 	SENSE:IN Fast →→ Trig: :Low #Atte	Free Run n: 30 dB	2437MHz alignauto	/pe: RMS	Mkr1	50.00 ms 2.91 dBm
Ient Spectrum Analyzer - Swer RL PE 50 @ enter Freq 2.437001 GB/div Ref 20.00 d GB/div Ref 20.00 d GB/di Ref 20.00 d GB/div Ref 20.00 d	Pt SA AC PNO: PFGair 9 dB Bm 9 dB 1	SENSE:IN Fast →→ Trig: ::Low #Atte #VBW 8.0	Free Run n: 30 dB	2437MHz alignauto	/pe: RMS	Mkr1	50.00 ms 2.91 dBm
Ient Spectrum Analyzer - Swer RL RF 50.9 enter Freq 2.43700 Set offset 2.3 Set offset 2.3 dB/div Ref Offset 2.3 Set offset 2.3 dB/div Ref 20.00 d Set offset 2.3 0 Set offset 2.3 Set offset 2.3 0 Ref 20.00 d Set offset 2.3 0 Set offset 2.3 Set offset 3.3 0	Pt SA AC AC PO000 GHz PNO: IFGair 9 dB Bm IFGair 9 dB IFGair 9 dB IFGair 1 d	SENSE:IN Fast → Trig: ::Low #Atte	Free Run n: 30 dB	2437MHz ALIONAUTO #Avg Ty	/pe: RMS	Mkr1 1	50.00 ms 2.91 dBm
Ient Spectrum Analyzer - Swer RL RF 50 Q enter Freq 2.437001 Ref Offset 2.3 Ref 20.00 d gB/div Ref 20.00 d Ref 20.00 d gB/div Ref 20	Pt SA AC PNO: PFGair 9 dB Bm 9 dB 1	SENSE:IN Fast →→ Trig: ::Low #Atte #VBW 8.0	Free Run n: 30 dB	2437MHz ALIONAUTO #Avg Ty	/pe: RMS	Mkr1 1	50.00 ms 2.91 dBm
Ref Offset 2.33 Ref Offset 2.33 Ref 20.00 d Od B/div Ref 20.00 d Od B/div Ref 20.00 d O d Image: Comparison of the second seco	Pt SA AC PNO: PFGair 9 dB Bm 9 dB 1	SENSE:IN Fast →→ Trig: ::Low #Atte #VBW 8.0	Free Run n: 30 dB	2437MHz ALIONAUTO #Avg Ty	/pe: RMS	Mkr1 1	50.00 ms 2.91 dBm



RI DE E	- Swept SA	CENCE-TA	π	ALIGN AUTO		07/50-11	2 DM Aug 22, 2022
RL RF Senter Freq 2.462	2000000 GHz	SENSE:IN			pe: RMS		2PM Aug 22, 2023 RACE 1 2 3 4 5 6
	PNC): Fast ↔ Trig iin:Low #Att	: Free Run en: 30 dB				
Ref Offse	t 2.42 dB					Mkr1	50.00 ms
dB/div Ref 20.0						12	2.28 dBm
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enter 2.46200000	0 GHz						Span 0 Hz
es BW 8 MHz	V-C114	#VBW 8.0	MHz		Sweep	100.0 ms	(10001 pts)
R MODE TRC SCL	×	Y	FUNCTION	FUNCTION WIDTH	FL	JNCTION VALUE	^
N 1 t	50.00 ms	12.28 dBm					
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	Du	uty Cycle N	VNT g				
	- Swept SA			2412MHz			
RL RF S	- Swept SA 50 Ω AC 2000000 GHz	SENSE:IN	IT	2412MHz	pe: RMS	Т	2PM Aug 22, 2023 RACE 12 3 4 5 6
RL RF 5	- <mark>Swept SA</mark> 50 Ω AC 2000000 GHz PNC	SENSE:IN		2412MHz		Т	2PM Aug 22, 2023 RACE 123456 TYPE WANNINN N DET PNNNN
RL RF Senter Freq 2.412	Swept SA 50 Q AC 2000000 GHz PNC IFGa	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
RL RF S enter Freq 2.412 Ref Offse dB/div Ref 20.0	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWWW DET PNNNNN
RL RF 5 enter Freq 2.412 Ref Offse dB/div Ref 20.0	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
RL RF S enter Freq 2.412 Ref Offse dB/div Ref 20.0	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
RL RF 15 enter Freq 2.412 Ref Offse dB/div Ref 20.0	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
RL RF 12 enter Freq 2.412 Ref Offse dB/div Ref 20.0 g additional and a set of the s	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
RL RF S enter Freq 2.412 Ref Offse Ref Offse dB/div Ref 20.0 Ref 20.0 g standard State Ref 20.0 g	Swept SA 50 Ω AC 20000000 GHz PNC IFGa t 2.38 dB	SENSE:IN	л j: Free Run	2412MHz		™ Mkr1	RACE 123456 TYPE WWWWWW DET PNNNNN 50.00 ms
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nter Freq 2.41200	PNC	D: Fast ↔→ Trig iin:Low #Att	g: Free Run ten: 30 dB	#Avg Type	:. KMD	TRACE 123456 TYPE DET PNNNNN
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nter 2.412000000 G s BW 8 MHz	GHz	#VBW 8.0	MHz		Sweep 100.0	Span 0 Hz ms (10001 pts)
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RL RF 50 Ω	ept SA AC	ty Cycle N		2437MHz	(7:58:37 PM Aug 22, 2023
RL RF 50 Ω	AC A	SENSE:II) 2437MHz	(
RL RF 50Ω nter Freq 2.43700 	AC AC POODO GHZ IFGa 39 dB	SENSE:II	vīt g: Free Run	2437MHz	e: RMS	7:58:37PM Aug 22, 2023 TRACE 1 2 3 4 5 5 TYPE WWWW DET P N NNNN kr1 50.00 ms
RL RF 50 2 nter Freq 2.43700 Ref Offset 2.3 dB/div Ref 20.00 c	AC AC POODO GHZ IFGa 39 dB	SENSE:II	vīt g: Free Run	2437MHz	e: RMS	7:58:37 PM Aug 22, 2023 TRACE 1 2 3 4 5 5 TYPE WWWWWW DET P N N N N N
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RL RF Freq 2.43700 Ref Offset2.3 dB/div Ref 20.00 c	AC AC POODO GHZ IFGa 39 dB	SENSE:II	vīt g: Free Run	2437MHz	e: RMS	7:58:37PM Aug 22, 2023 TRACE 1 2 3 4 5 5 TYPE WWWW DET P N NNNN kr1 50.00 ms
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No. :BCTC/RF-EMC-005

Page: 65 of 69



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.

14.2 Test Result

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

Page: 66 of 69



15. EUT Photographs

EUT Photo 1



EUT Photo 2



No. :BCTC/RF-EMC-005

Page: 67 of 69



16. EUT Test Setup Photographs

Radiated Measurement Photos





Page: 68 of 69



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.

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***** END *****

No. :BCTC/RF-EMC-005

Page: 69 of 69

Edition: B.0