Radio Test Report

Report No.: STS2407146W02

Issued for

Chengdu Accsoon Technology Co., LTD.

Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St., High-tech Zone, Chengdu, Sichuan, China.

Product Name: ACCSOON CoMo SE

Brand Name: ACCSOON

Model Name: MIC03

MIC03-H, MIC03-R, MIC03-1H1R,

Series Model(s): MIC03-1H2R, MIC03-1H3R, MIC03-1H4R, MIC03-1H5R,

MIC03-1H6R, MIC03-1H7R, MIC03-1H8R

FCC ID: 2AOH401MIC03

Test Standards: FCC Part15,247

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	TEST REPORT
Applicant's Name	Chengdu Accsoon Technology Co., LTD.
Address:	Rm. 708, Bld. 1, Xiongchuan Center, No.166, Tianfu 2nd St., High-tech Zone, Chengdu, Sichuan, China.
Manufacturer's Name:	Shenzhen Accsoon Technology Co., LTD.
Address:	Room 302, BLDG D, Zhiyuanyungu, 73 Guanlan Blvd, Longhua District, Shenzhen, China.
Product Description	
Product Name:	ACCSOON CoMo SE
Brand Name:	ACCSOON
Model Name:	MIC03
Series Model(s)	MIC03-H, MIC03-R, MIC03-1H1R, MIC03-1H2R, MIC03-1H3R, MIC03-1H4R, MIC03-1H5R, MIC03-1H6R, MIC03-1H7R, MIC03-1H8R
Test Standards	FCC Part15.247
Test Procedure:	ANSI C63.10-2020
	s been tested by STS, the test results show that the equipment e with the FCC requirements. And it is applicable only to the tester

ed

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Date of Test....:

Date of receipt of test item: 19 Aug. 2024

Date (s) of performance of tests: 19 Aug. 2024~12 Sept. 2024

Date of Issue: 12 Sept. 2024

Test Result: Pass

Testing Engineer

(Aaron Bu)

Technical Manager

(Tony Liu)

Authorized Signatory:

(Bovey Yang)



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Revision History

Report No.: STS2407146W02

Rev.	Issue Date Report No.		Effect Page	Contents
00	00 12 Sept. 2024 STS240714		ALL	Initial Issue
				9

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C								
Standard Section	I I I I I I I I I I I I I I I I I I I							
15.207	Conducted Emission	PASS						
15.247(a)(1)	Hopping Channel Separation	PASS						
15.247(a)(1)&(b)(1)	PASS							
15.209	Radiated Spurious Emission	PASS						
15.247(d)	Conducted Spurious & Band Edge Emission	PASS						
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS	-					
15.247(a)(1)(iii)	Dwell Time	PASS						
15.247(a)(1)	Bandwidth	PASS						
15.205	Restricted bands of operation	PASS						
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS						
15.203	Antenna Requirement	PASS	95					

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.

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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ,

Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Duty Cycle	±3.2%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	ACCSOON CoMo SE					
Brand Name	ACCSOON					
Model Name	MIC03					
Series Model(s)	MIC03-H, MIC03-R, MIC03-1H1R, MIC03-1H2R, MIC03-1H3R, MIC03-1H4R, MIC03-1H5R, MIC03-1H6R, MIC03-1H7R, MIC03-1H8R					
Model Difference	Except for the different model names, everything else is completely the same.					
Channel List	Please refer to the Note 3.					
Frequency	2402 – 2480 MHz					
Modulation	GFSK					
Antenna Type	External					
Antenna Gain	2.29dBi					
Adapter	Input: DC 5V/9V/12V 2A Output:5*4.2VDC 1A					
Battery	Rated Voltage: 3.6V Capacity: 2320mAh					
Hardware version number	V1.0.0					
Software version number	V0.1					
Connecting I/O Port(s)	Please refer to the Note 1.					

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

			Chann	el List	p.		
Channel	Frequency (MHz)	Channel	Frequenc y (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

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2.2 DESCRIPTION OF THE TEST MODES

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.

Worst Mode	Description	Data Rate/Modulation
Mode 1	CH00	GFSK
Mode 2	CH19	GFSK
Mode 3	CH39	GFSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.
- (3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	Mode 4 : Keeping TX

2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1)Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

(2) The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

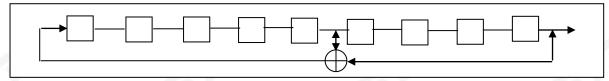
Numver of shift register stages:9

Length of pseudo-random sequence:29-1=511bits



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Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence

An example of Pseudorandom Frequency Hoppong Sequence as follow:

()	2	4	6			78		73	75	77

Each frequency used equally on th average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

(3) Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses 2.4G radio which operates in 2400-2483.5 MHz band. 2.4G uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 40 bands (2 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All 2.4G devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the 2.4G specification to provide an effective way for a 2.4G radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the 2.4G signal or the 2.4G signal is interfering with another device. The AFH-enabled 2.4G device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a 2.4G system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.

2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

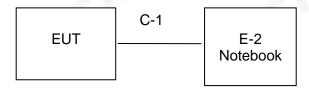
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
SRD	2.4G	GFSK	2.29	Telink BDT	Telink BDT

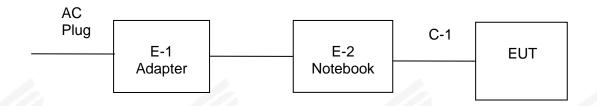


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2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test



Conducted Emission Test



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2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

			to o o o o o o o o o o o o o o o o o o		
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Adapter	LENOVO	Think Pad E470	N/A	N/A
E-2	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	HUA WEI	N/A	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <code>FLength_</code> column.
- (2) "YES" is means "with core"; "NO" is means "without core".

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	RF Rad	liation Test Equipmen	t		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW EZ-EMC			Ver.STSLAB-03/	A1 RE	
	Condu	ction Test equipment			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2023.09.25	2024.09.24
Limtter	CYBERTEK	EM5010	N/A	2023.09.25	2024.09.24
LISN	R&S	ENV216	101242	2023.09.25	2024.09.24
LISN	EMCO	3810/2NM	23625	2023.09.25	2024.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
7000	RF	Connected Test			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Power detector group	Keysight	NW2021031	N/A	2023.09.26	2024.09.25
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW		MTS 8310 2.0	0.0.0	



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	Quasi-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	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

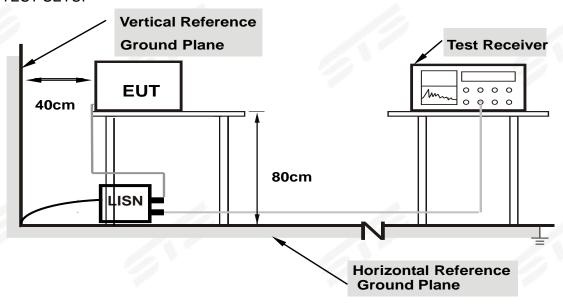
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 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.

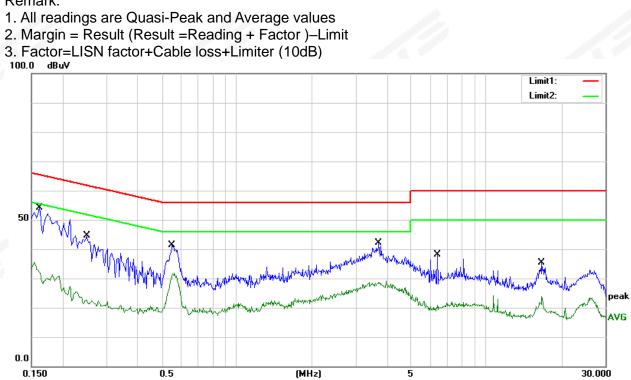
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3.1.5 TEST RESULT

Temperature:	25.1(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4	61	

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1620	34.28	19.78	54.06	65.36	-11.30	QP
2	0.1620	15.80	19.78	35.58	55.36	-19.78	AVG
3	0.2500	24.55	19.99	44.54	61.76	-17.22	QP
4	0.2500	4.92	19.99	24.91	51.76	-26.85	AVG
5	0.5500	21.44	19.96	41.40	56.00	-14.60	QP
6	0.5500	11.88	19.96	31.84	46.00	-14.16	AVG
7	3.7100	22.22	19.83	42.05	56.00	-13.95	QP
8	3.7100	9.36	19.83	29.19	46.00	-16.81	AVG
9	6.3740	18.33	19.80	38.13	60.00	-21.87	QP
10	6.3740	1.19	19.80	20.99	50.00	-29.01	AVG
11	16.6620	14.97	20.43	35.40	60.00	-24.60	QP
12	16.6620	3.38	20.43	23.81	50.00	-26.19	AVG

Remark:





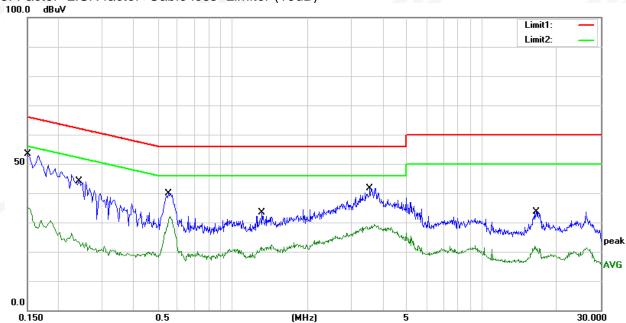
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Temperature:	25.1(C)	Relative Humidity:	59%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		1.7

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	33.51	19.74	53.25	66.00	-12.75	QP
2	0.1500	15.38	19.74	35.12	56.00	-20.88	AVG
3	0.2420	24.12	20.03	44.15	62.03	-17.88	QP
4	0.2420	4.01	20.03	24.04	52.03	-27.99	AVG
5	0.5540	20.06	19.93	39.99	56.00	-16.01	QP
6	0.5540	12.08	19.93	32.01	46.00	-13.99	AVG
7	1.3140	13.57	19.80	33.37	56.00	-22.63	QP
8	1.3140	1.82	19.80	21.62	46.00	-24.38	AVG
9	3.5500	21.79	19.94	41.73	56.00	-14.27	QP
10	3.5500	9.50	19.94	29.44	46.00	-16.56	AVG
11	16.5220	13.33	20.32	33.65	60.00	-26.35	QP
12	16.5220	1.57	20.32	21.89	50.00	-28.11	AVG

Remark:

- All readings are Quasi-Peak and Average values
 Margin = Result (Result = Reading + Factor) Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

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LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

EDEOLIENCY (MHz)	(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).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	Above 38.6
13.36-13.41			

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For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
	200Hz (From 9kHz to 0.15MHz)/
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);
band)	200Hz (From 9kHz to 0.15MHz)/
	9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP		
Start Frequency	30 MHz(Peak/QP)		
Stop Frequency	1000 MHz (Peak/QP)		
RB / VB (emission in restricted	120 KHz / 200 KHz		
band)	120 KHz / 300 KHz		

Spectrum Parameter	Setting			
Attenuation	Auto			
Detector	Peak/AV			
Start Frequency	1000 MHz(Peak/AV)			
Stop Frequency	10th carrier hamonic(Peak/AV)			
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)			
band)	1 MHz/1/T MHz(AVG)			

For Restricted band

Spectrum Parameter	Setting			
Detector	Peak/AV			
Start/Stan Fraguency	Lower Band Edge: 2310 to 2410 MHz			
Start/Stop Frequency	Upper Band Edge: 2476 to 2500 MHz			
DD / \/D	1 MHz / 3 MHz(Peak)			
RB / VB	1 MHz/1/T MHz(AVG)			



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

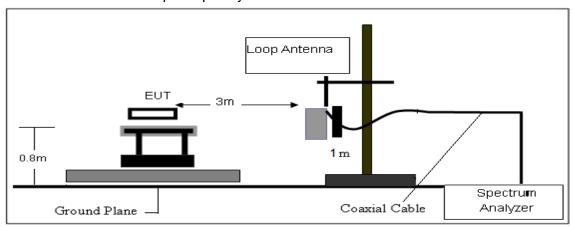
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD No deviation.

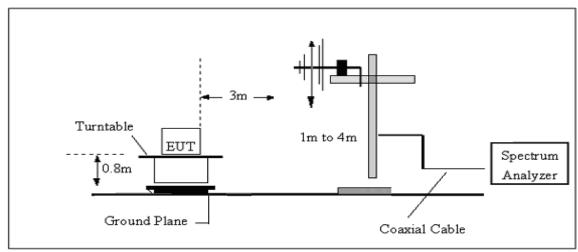


3.2.4 TESTSETUP

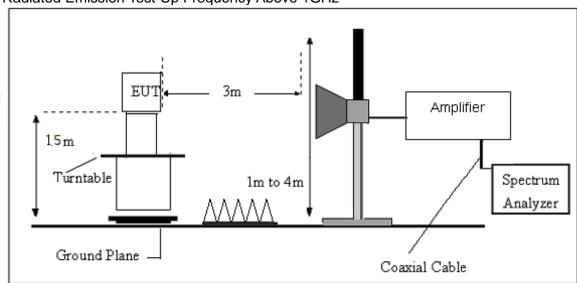
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

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3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

 $F\dot{S} = RA + AF + CL - AG$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

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3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	23.4(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.6V	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Toot Dooult
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result
					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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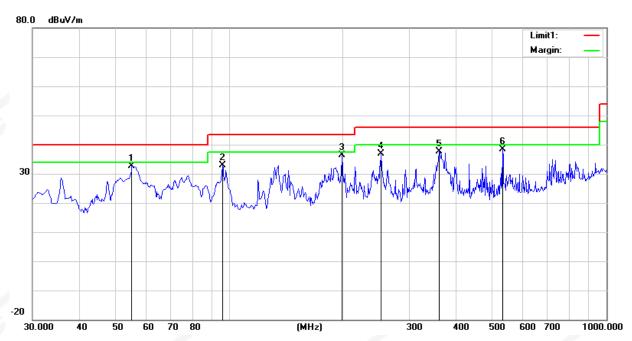
(30MHz-1000MHz)

Temperature:	23.4(C)	Relative Humidity:	60%RH			
Test Voltage:	DC 3.6V	Phase:	Horizontal			
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)					

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	55.2200	57.62	-25.04	32.58	40.00	-7.42	peak
2	95.9600	53.66	-20.67	32.99	43.50	-10.51	peak
3	198.7800	57.45	-21.12	36.33	43.50	-7.17	peak
4	252.1300	52.78	-15.80	36.98	46.00	-9.02	peak
5	359.8000	50.59	-12.87	37.72	46.00	-8.28	peak
6	531.4900	45.64	-7.37	38.27	46.00	-7.73	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.





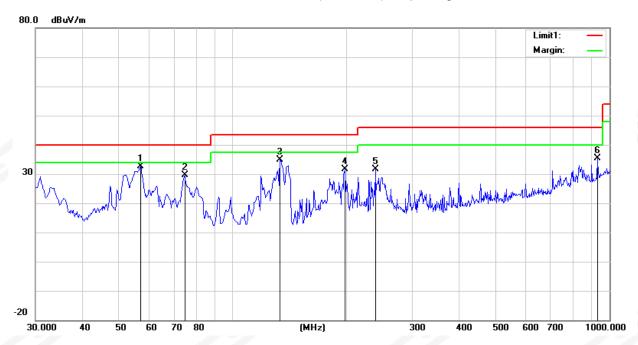
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Temperature:	23.4(C)	Relative Humidity:	60%RH				
Test Voltage:	DC 3.6V	Phase:	Vertical				
Test Mode:	Mode 1/2/3 (Mode 2 worst mode)						

No.	Frequency	Reading	Correct	Result Limit		Margin	Remark	
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	57.1600	57.98	-25.45	32.53	40.00	-7.47	peak	
2	74.6569	53.50	-23.98	29.52	40.00	-10.48	peak	
3	133.7900	53.08	-18.14	34.94	43.50	-8.56	peak	
4	198.7800	52.76	-21.12	31.64	43.50	-11.86	peak	
5	239.5200	49.78	-18.10	31.68	46.00	-14.32	peak	
6	932.1000	34.70	0.72	35.42	46.00	-10.58	peak	

Remark:

- Margin = Result (Result = Reading + Factor) Limit
 Factor = Antenna factor + Cable attenuation factor (cable loss) Amplifier gain



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(1GHz~25GHz) Spurious emission Requirements

				Α	bove 1000 MI	lz				
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
100				Low Cha	nnel (GFSK/2	402 MHz)			100	
3264.88	61.01	44.70	6.70	28.20	-9.80	51.21	74.00	-22.79	PK	Vertical
3264.88	50.01	44.70	6.70	28.20	-9.80	40.21	54.00	-13.79	AV	Vertical
3264.61	61.44	44.70	6.70	28.20	-9.80	51.64	74.00	-22.36	PK	Horizontal
3264.61	51.13	44.70	6.70	28.20	-9.80	41.33	54.00	-12.67	AV	Horizontal
4804.51	59.06	44.20	9.04	31.60	-3.56	55.50	74.00	-18.50	PK	Vertical
4804.51	49.45	44.20	9.04	31.60	-3.56	45.89	54.00	-8.11	AV	Vertical
4804.52	59.26	44.20	9.04	31.60	-3.56	55.70	74.00	-18.30	PK	Horizontal
4804.52	49.69	44.20	9.04	31.60	-3.56	46.13	54.00	-7.87	AV	Horizontal
5359.72	48.59	44.20	9.86	32.00	-2.34	46.25	74.00	-27.75	PK	Vertical
5359.72	39.30	44.20	9.86	32.00	-2.34	36.96	54.00	-17.04	AV	Vertical
5359.84	47.11	44.20	9.86	32.00	-2.34	44.77	74.00	-29.23	PK	Horizontal
5359.84	38.39	44.20	9.86	32.00	-2.34	36.05	54.00	-17.95	AV	Horizontal
7205.93	54.44	43.50	11.40	35.50	3.40	57.84	74.00	-16.16	PK	Vertical
7205.93	44.91	43.50	11.40	35.50	3.40	48.31	54.00	-5.69	AV	Vertical
7205.91	54.84	43.50	11.40	35.50	3.40	58.24	74.00	-15.76	PK	Horizontal
7205.91	44.09	43.50	11.40	35.50	3.40	47.49	54.00	-6.51	AV	Horizontal
				Middle Ch	annel (GFSK/	2440 MHz)				
3264.67	61.29	44.70	6.70	28.20	-9.80	51.49	74.00	-22.51	PK	Vertical
3264.67	50.49	44.70	6.70	28.20	-9.80	40.69	54.00	-13.31	AV	Vertical
3264.57	60.84	44.70	6.70	28.20	-9.80	51.04	74.00	-22.96	PK	Horizontal
3264.57	51.29	44.70	6.70	28.20	-9.80	41.49	54.00	-12.51	AV	Horizontal
4882.30	58.63	44.20	9.04	31.60	-3.56	55.07	74.00	-18.93	PK	Vertical
4882.30	49.23	44.20	9.04	31.60	-3.56	45.67	54.00	-8.33	AV	Vertical
4882.46	58.84	44.20	9.04	31.60	-3.56	55.28	74.00	-18.72	PK	Horizontal
4882.46	49.24	44.20	9.04	31.60	-3.56	45.68	54.00	-8.32	AV	Horizontal
5359.69	49.45	44.20	9.86	32.00	-2.34	47.11	74.00	-26.89	PK	Vertical
5359.69	39.68	44.20	9.86	32.00	-2.34	37.34	54.00	-16.66	AV	Vertical
5359.79	47.18	44.20	9.86	32.00	-2.34	44.84	74.00	-29.16	PK	Horizontal
5359.79	38.27	44.20	9.86	32.00	-2.34	35.93	54.00	-18.07	AV	Horizontal
7323.96	54.87	43.50	11.40	35.50	3.40	58.27	74.00	-15.73	PK	Vertical
7323.96	43.60	43.50	11.40	35.50	3.40	47.00	54.00	-7.00	AV	Vertical
7323.78	54.21	43.50	11.40	35.50	3.40	57.61	74.00	-16.39	PK	Horizontal
7323.78	43.82	43.50	11.40	35.50	3.40	47.22	54.00	-6.78	AV	Horizontal



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				High Cha	nnel (GFSK/2	2480 MHz)				
3264.62	62.09	44.70	6.70	28.20	-9.80	52.29	74.00	-21.71	PK	Vertical
3264.62	51.16	44.70	6.70	28.20	-9.80	41.36	54.00	-12.64	AV	Vertical
3264.73	62.08	44.70	6.70	28.20	-9.80	52.28	74.00	-21.72	PK	Horizontal
3264.73	50.19	44.70	6.70	28.20	-9.80	40.39	54.00	-13.61	AV	Horizontal
4960.45	58.84	44.20	9.04	31.60	-3.56	55.28	74.00	-18.72	PK	Vertical
4960.45	49.73	44.20	9.04	31.60	-3.56	46.17	54.00	-7.83	AV	Vertical
4960.42	59.24	44.20	9.04	31.60	-3.56	55.68	74.00	-18.32	PK	Horizontal
4960.42	50.53	44.20	9.04	31.60	-3.56	46.97	54.00	-7.03	AV	Horizontal
5359.67	48.69	44.20	9.86	32.00	-2.34	46.35	74.00	-27.65	PK	Vertical
5359.67	39.77	44.20	9.86	32.00	-2.34	37.43	54.00	-16.57	AV	Vertical
5359.68	47.19	44.20	9.86	32.00	-2.34	44.85	74.00	-29.15	PK	Horizontal
5359.68	38.36	44.20	9.86	32.00	-2.34	36.02	54.00	-17.98	AV	Horizontal
7439.80	54.72	43.50	11.40	35.50	3.40	58.12	74.00	-15.88	PK	Vertical
7439.80	44.55	43.50	11.40	35.50	3.40	47.95	54.00	-6.05	AV	Vertical
7439.94	54.60	43.50	11.40	35.50	3.40	58.00	74.00	-16.00	PK	Horizontal
7439.94	44.40	43.50	11.40	35.50	3.40	47.80	54.00	-6.20	AV	Horizontal

Note:

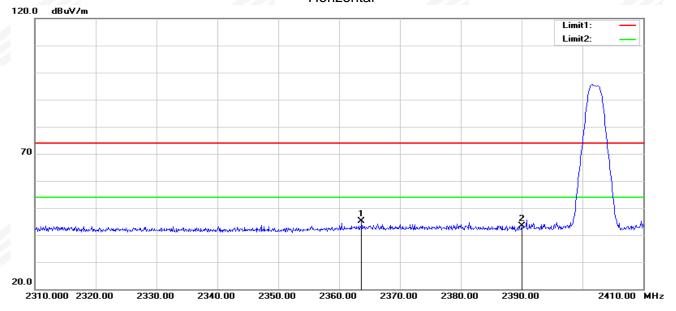
- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier. Emission Level = Reading + Factor
- 3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.





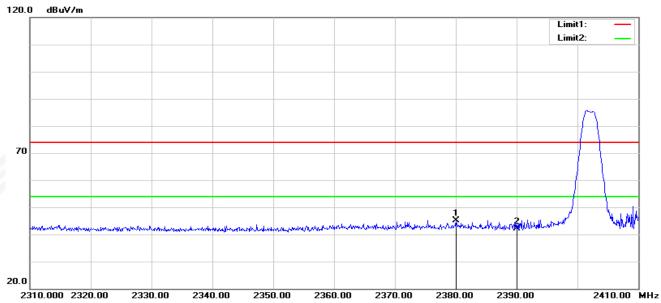
Restricted band Requirements

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2363.700	41.24	3.95	45.19	74.00	-28.81	peak
2	2390.000	38.99	4.34	43.33	74.00	-30.67	peak

Vertical



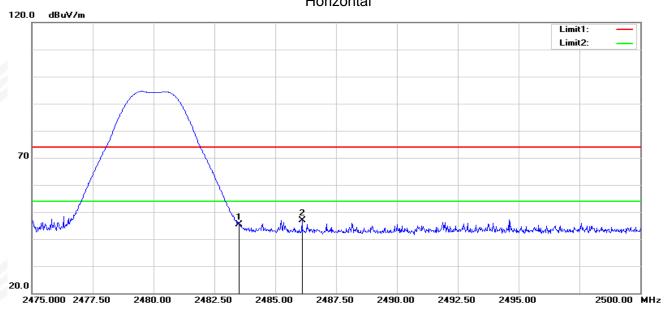
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2380.000	40.92	4.19	45.11	74.00	-28.89	peak
2	2390.000	37.69	4.34	42.03	74.00	-31.97	peak



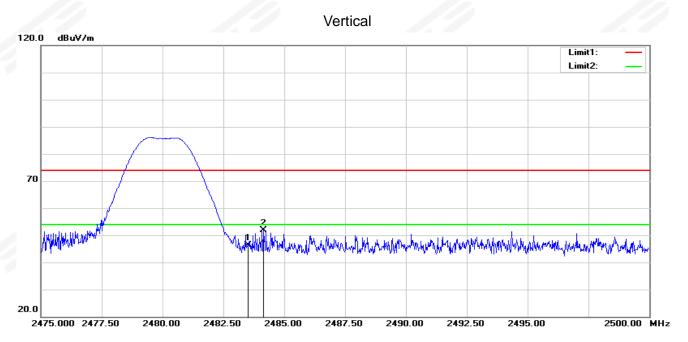
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GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.82	4.60	45.42	74.00	-28.58	peak
2	2486.100	42.34	4.61	46.95	74.00	-27.05	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	41.70	4.60	46.30	74.00	-27.70	peak
2	2484.150	47.31	4.61	51.92	74.00	-22.08	peak

Note: All modes have been measurement, only worst mode was reported.

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4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Ctart/Ctan Fraguency	Lower Band Edge: 2300 – 2407 MHz
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Hopping Band edge

Spectrum Parameter	Setting
Detector	Peak
Ctart/Ctan Fraguency	Lower Band Edge: 2300- 2403 MHz
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

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The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS



5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

	FCC Part 15.247,Subpart C					
Section	Test Item	Limit	FrequencyRange (MHz)	Result		
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS		

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Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	100KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS



AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

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6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for 2.4G packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. 2.4G Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is $3.37 \times 31.6 = 106.6$.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS

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7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- C. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247,Subpart C						
Section	Test Item	Limit	FrequencyRange (MHz)	Result		
15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS		

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS



9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247,Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result					
		1 W or 0.125W	***						
15.247 (a)(1)&(b)(1)	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS					

9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW ≥ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.
- NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

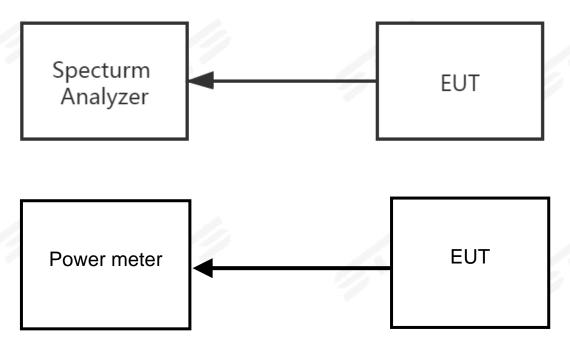
PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.

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9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

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.

10.2 EUT ANTENNA

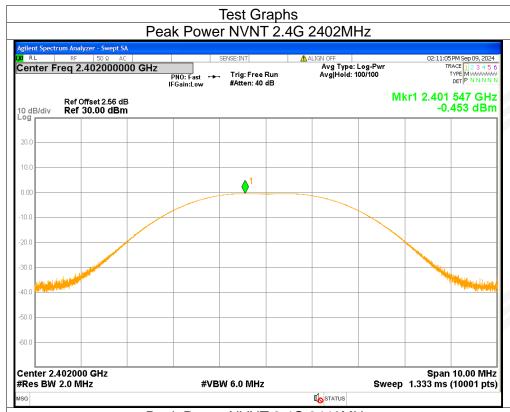
The EUT antenna is External Antenna. It comply with the standard requirement.

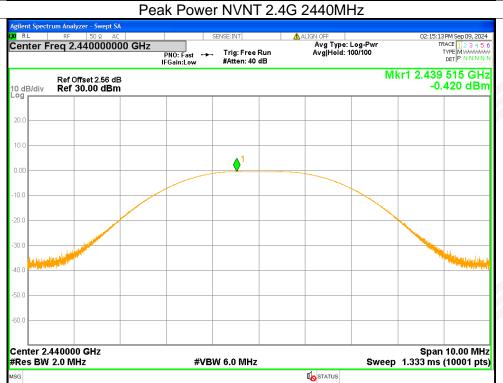


1. Maximum Peak Conducted Output Power

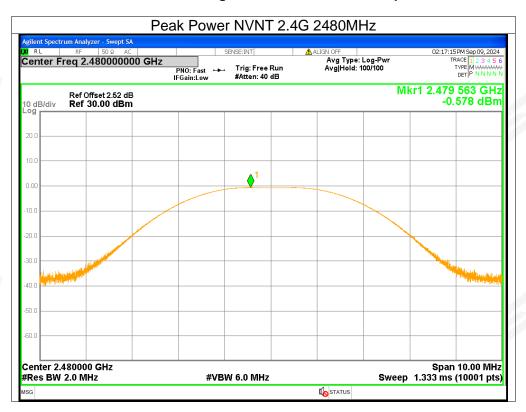
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	-0.45	<=20.97	Pass
NVNT	2.4G	2440	-0.42	<=20.97	Pass
NVNT	2.4G	2480	-0.58	<=20.97	Pass

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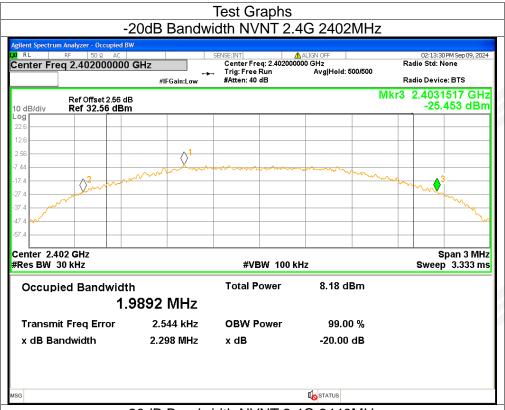


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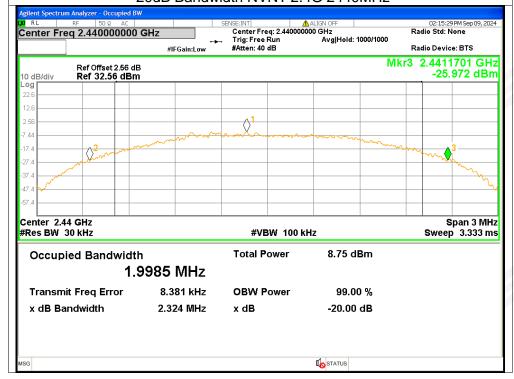
2. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	2.2982	Pass
NVNT	2.4G	2440	2.3235	Pass
NVNT	2.4G	2480	2.2787	Pass

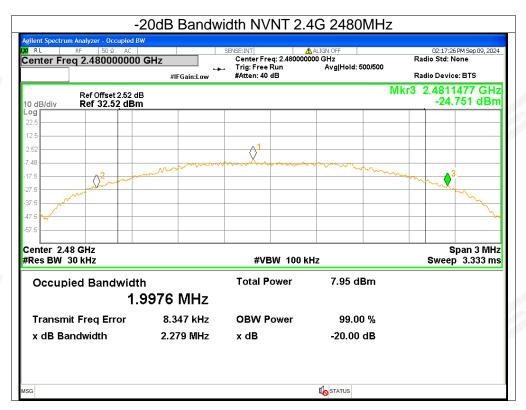
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-20dB Bandwidth NVNT 2.4G 2440MHz



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3. Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	2402.5	2404.5	2	>=1.532	Pass
NVNT	2.4G	2440.5	2442.5	2	>=1.549	Pass
NVNT	2.4G	2478.5	2480.5	2	>=1.519	Pass

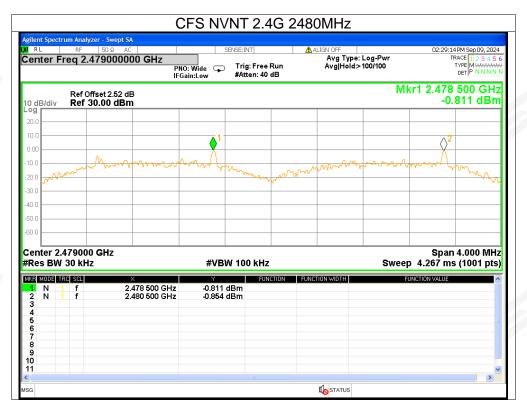
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STATUS



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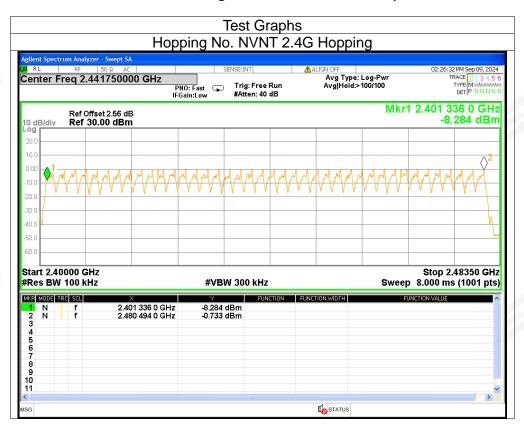
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4. Number of Hopping Channel

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	2.4G	40	>=15	Pass



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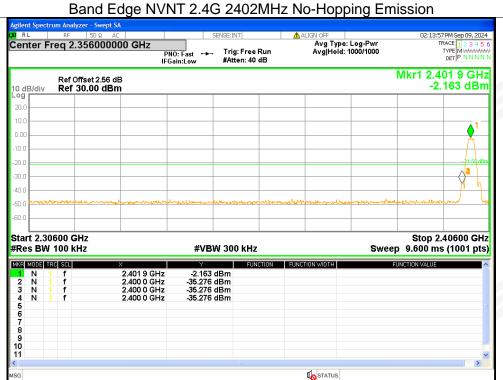
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5. Band Edge

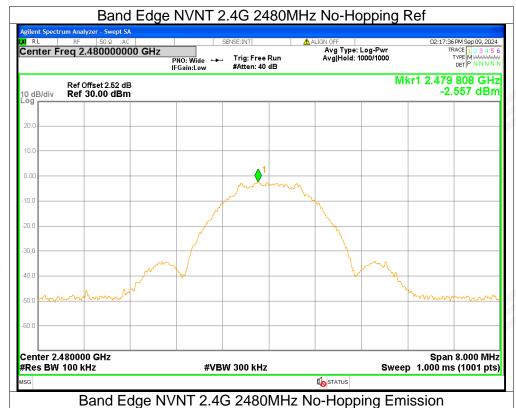
U - U	or = arrar = arg a								
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	2.4G	2402	No-Hopping	-33.68	<=-20	Pass			
NVNT	2.4G	2480	No-Hopping	-44.39	<=-20	Pass			

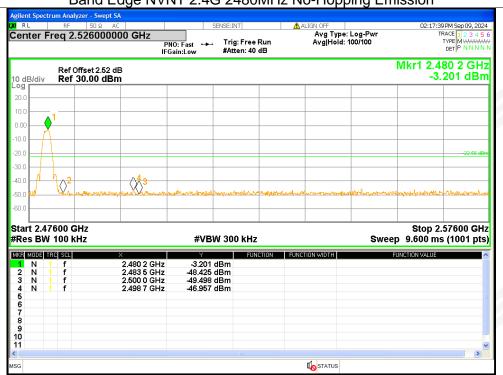
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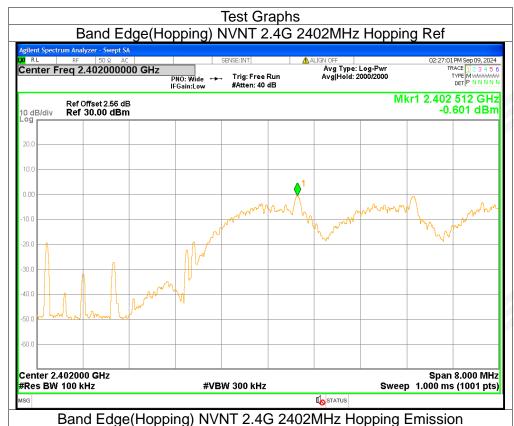


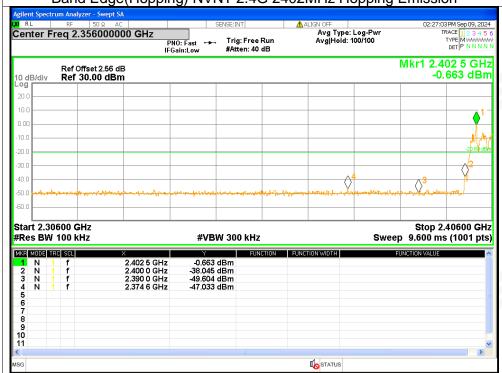


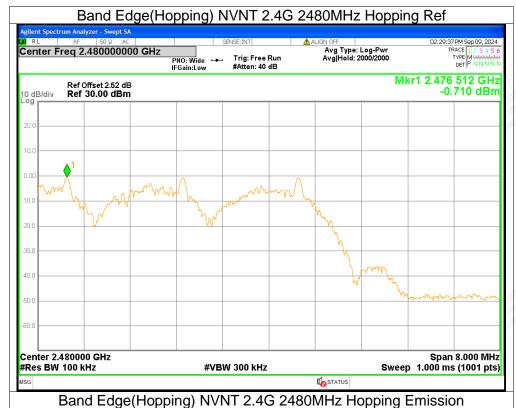
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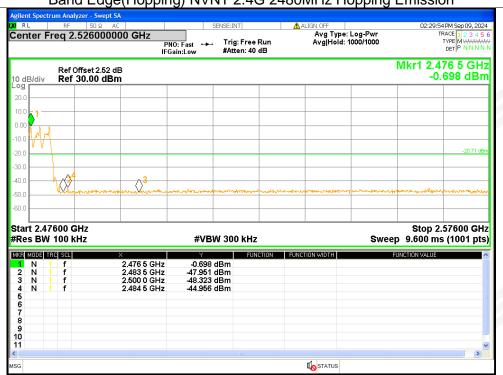
6. Band Edge(Hopping)

		<u> </u>				
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Hopping	-46.43	<=-20	Pass
NVNT	2.4G	2480	Hopping	-44.24	<=-20	Pass









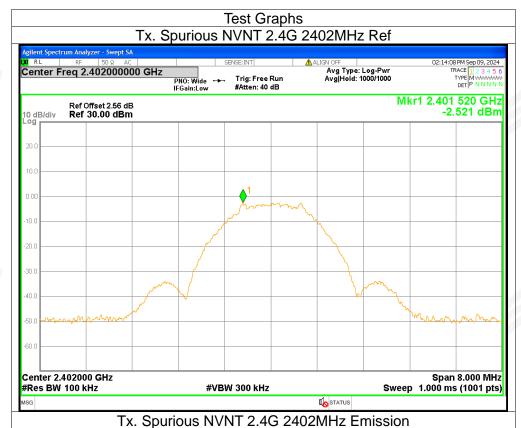


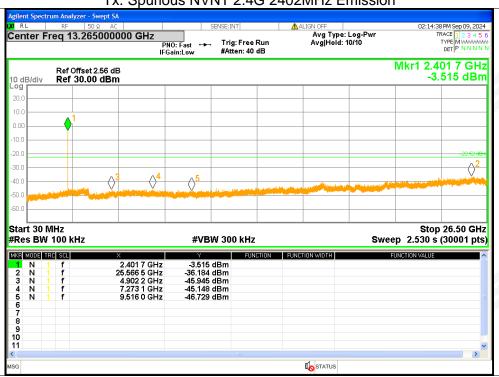
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7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	-33.66	<=-20	Pass
NVNT	2.4G	2440	-33.63	<=-20	Pass
NVNT	2.4G	2480	-33.27	<=-20	Pass

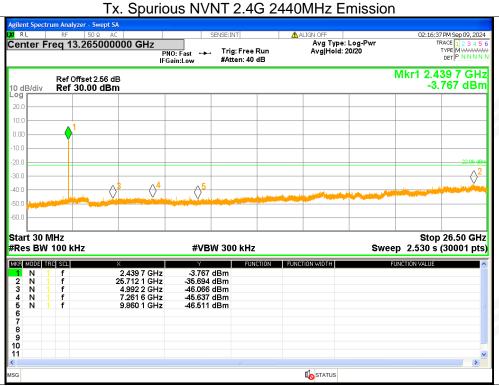
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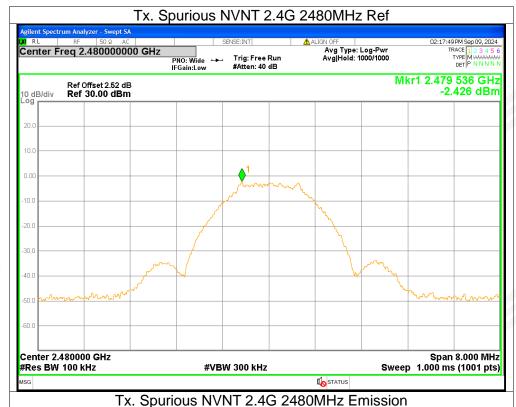


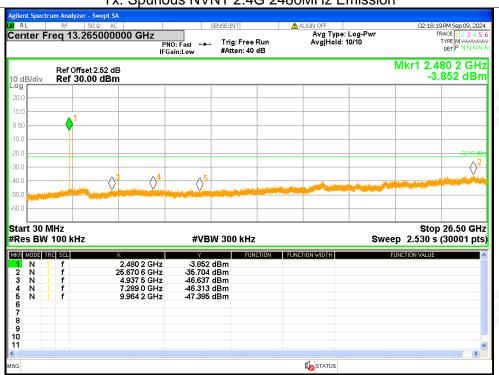
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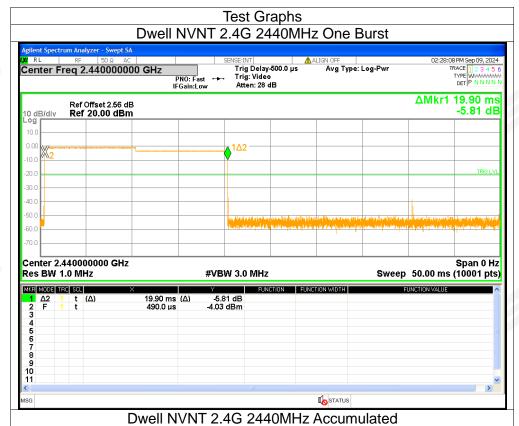


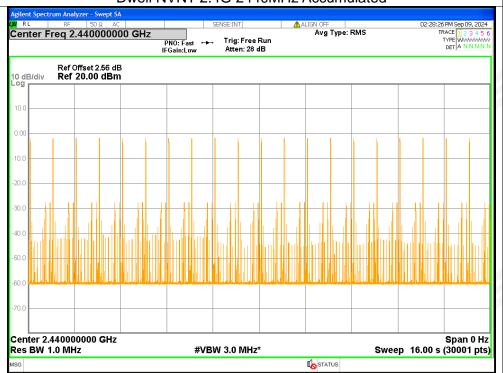


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8. Dwell Time

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2440	19.90	398	20	16000	<=400	Pass





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APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * END OF THE REPORT * * * *