

RF TEST REPORT

Product Name: wireless headset

Model Name: A2, A3, A6, A7, A8, A9

FCC ID: 2A5M3-A2

Issued For	:	Sunfly Elec	ctronics Co.,Ltd	
		-	g E, Jinxiongda Science and Technology Park, Rd ng south,Longhua District,ShenZhen,China	
Issued By	:	Shenzhen	LGT Test Service Co., Ltd.	
		No.177, Re	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China	
Report N	umbe	r:	LGT24I086RF02	
Sample F	Receiv	ved Date:	Sep. 13, 2024	
Date of T	est:		Sep. 13, 2024 – Sep. 29, 2024	
Date of Is	sue:		Sep. 29, 2024	

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TEST REPORT CERTIFICATION

Applicant:	Sunfly Electronics Co.,Ltd
Address:	5/F,building E, Jinxiongda Science and Technology Park, Rd Huangguang south,Longhua District,ShenZhen,China
Manufacturer:	Sunfly Electronics Co.,Ltd
Address:	5/F,building E, Jinxiongda Science and Technology Park, Rd Huangguang south,Longhua District,ShenZhen,China
Product Name:	wireless headset
Trademark:	N/A
Model Name:	A2, A3, A6, A7, A8, A9
Sample Status:	Normal
Serial Number:	LGT2409090-3

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC Part 15.247, Subpart C ANSI C63.10-2013	PASS		

Prepared by:

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Revision History

Rev.	Issue Date	Contents
00	Sep. 29, 2024	Initial Issue



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	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(a)(1)	Hopping Channel Separation	PASS			
15.247(a)(1)&(b)(1)	Output Power	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			

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.	
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China	
	A2LA Certificate No.: 6727.01	
Accreditation Certificate	FCC Registration No.: 746540	
	CAB ID: CN0136	

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	wireless headset
Trademark:	N/A
Model Name:	A2
Series Model:	A3, A6, A7, A8, A9
Model Difference:	Only model name different.
Channel List:	Please refer to the Note 3.
Bluetooth:	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Antenna Type:	Ceramic Chip Antenna
Antenna Gain:	1.8dBi
Rating:	Input: DC 5V
Battery:	Capacity: 80mAh Rated Voltage: 3.7 V
Hardware Version:	A2_L_BT8932E_V3/A2_R_BT8932E_V3
Software Version:	SL_A2(other1)_S4924_BT8932E_A2_20240828 _(3E90B8C8_71157BDF)
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 refers to 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.



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		Chanı	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



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	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode 7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

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.

	lest Case			
AC Conducted Emission	Mode 13: Charging			

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.

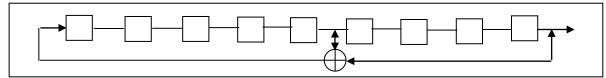
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination 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.



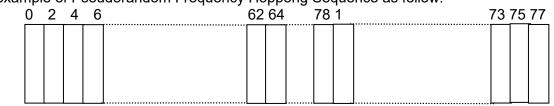
(2) The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized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

Numver of shift register stages:9

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



Each frequency used equally on the 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 Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 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 Bluetooth 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 Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless device are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth 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 bluetooth 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.

Test software Version	Test program: Bluetooth				
bt_tool_v1.1.4	Mode Or Modulation type	Power setting			
	1M	6			
	2M	6			
	3M	6			

2.5 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A
Adapter	Tenpao	S005CAU050010 0	N/A	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V, 1A
USB-A to USB-C Cable	UGREEN	US287	N/A	0.5m, shielded, without ferrite core

Note:

(1) For detachable type I/O cable should be specified the length in cm in [Length] column.

(2) "YES" is means "with core"; "NO" is means "without core".



2.6 EQUIPMENTS LIST

Conducted Emission								
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until			
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08			
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08			
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08			
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08			
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08			
Testing Software		EMC-I_V1.4.0.3_SKET						

Radiated Test equipment Equipment Manufacturer Model No. Serial No. Cal. Date Cal. Until **EMI Test Receiver** R&S ESU8 100372 2024.03.09 2025.03.08 Active loop Antenna ETS 00049544 2025.10.12 6502 2023.10.13 Spectrum Analyzer Keysight N9010B MY60242508 2024.08.05 2025.08.04 2705 Bilog Antenna(30M-1G) SCHWARZBECK VULB 9168 2022.12.12 2025.12.11 Horn Antenna(1-18G) SCHWARZBECK 3115 10SL0060 2022.06.02 2025.06.01 Horn Antenna(18-40G) A-INFO LB-180400-KF J211060273 2022.06.08 2025.06.07 Pre-amplifier(30M-1G) EMtrace RP01A 02019 2024.03.09 2025.03.08 Pre-amplifier(1-26.5G) Agilent 8449B 3008A4722 2024.03.09 2025.03.08 Pre-amplifier(18-40G) com-mw LNPA_18-40-01 18050003 2024.03.09 2025.03.08 Wireless Communications R&S **CMW 500** 2025.03.08 137737 2024.03.09 Test Set JINGCHUANG BT-3 2025.03.10 Temperature & Humidity N.A 2024.03.11 **Testing Software** EMC-I V1.4.0.3 SKET

RF Conducted Test equipment								
Equipment	Manufacturer	rer Model No. Serial No.		Cal. Date	Cal. Until			
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04			
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08			
RF Automatic Test system	MW	MW100-RFCB	MW220322LG -033	2024.03.09	2025.03.08			
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08			
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08			
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08			
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10			
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08			
Testing Software	MTS8310_V2.0.0_MW							



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.

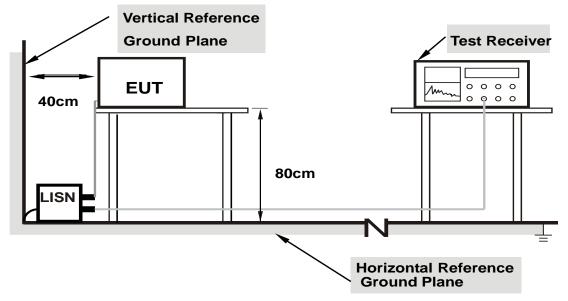
The following table is the setting of the receiver

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.

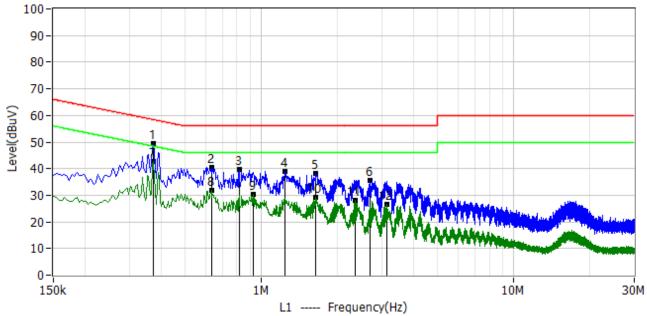
3.1.4 EUT OPERATING CONDITIONS

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.



3.1.5 TEST RESULT

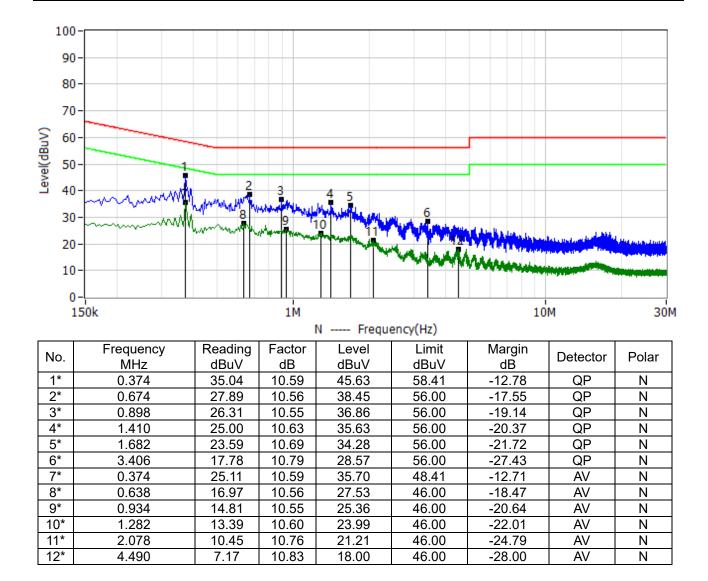
Project: LGT24I086	Test Engineer: LiuH	
EUT: wireless headset	Temperature: 27.2°C	
M/N: A2	Humidity: 47%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-13	
Test Mode: Charging		
Note:		



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.374	38.89	10.57	49.46	58.41	-8.95	QP	L1
2*	0.634	30.02	10.57	40.59	56.00	-15.41	QP	L1
3*	0.818	29.18	10.61	39.79	56.00	-16.21	QP	L1
4*	1.242	28.04	10.76	38.80	56.00	-17.20	QP	L1
5*	1.646	27.49	10.88	38.37	56.00	-17.63	QP	L1
6*	2.702	24.35	11.13	35.48	56.00	-20.52	QP	L1
7*	0.374	32.18	10.57	42.75	48.41	-5.66	AV	L1
8*	0.634	21.11	10.57	31.68	46.00	-14.32	AV	L1
9*	0.930	19.50	10.66	30.16	46.00	-15.84	AV	L1
10*	1.634	18.26	10.88	29.14	46.00	-16.86	AV	L1
11*	2.362	17.16	11.06	28.22	46.00	-17.78	AV	L1
12*	3.146	15.57	11.19	26.76	46.00	-19.24	AV	L1



Project: LGT24I086	Test Engineer: LiuH	
EUT: wireless headset	Temperature: 27.2°C	
M/N: A2	Humidity: 47%RH	
Test Voltage: AC 120V/60Hz	Test Data: 2024-09-13	
Test Mode: Charging		
Note:		





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 C63.10-2013 below has to be followed.

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)

	(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	6.26775-6.26825 108-121.94		13.25-13.4	
6.31175-6.31225	123-138	2200-2300	14.47-14.5	
8.291-8.294			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	12.29-12.293 167.72-173.2		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				



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)		
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz);		
	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 band)	120 KHz / 300 KHz

Setting		
Auto		
Peak		
1000 MHz (Peak/AV)		
10th carrier hamonic (Peak/AV)		
1 MHz / 3 MHz(Peak)		
1 MHz/1/T MHz(AVG)		

For Restricted band	
Spectrum Parameter	
	Γ

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

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

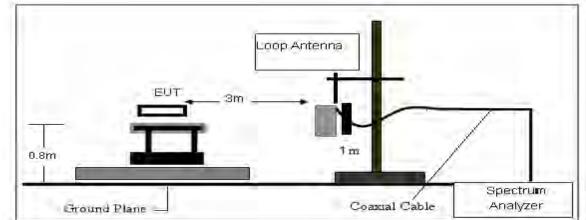
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the 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. Note:

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.

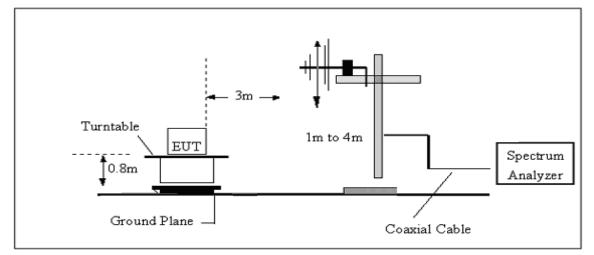


3.2.4 TESTSETUP

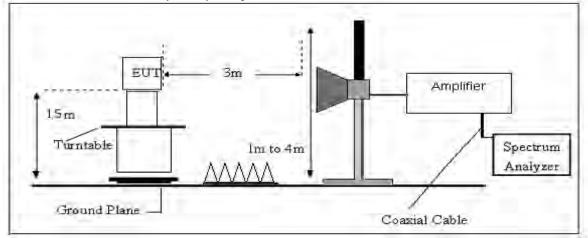


(A) Radiated Emission Test-Up Frequency Below 30MHz

(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.



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:

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



3.2.7 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

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

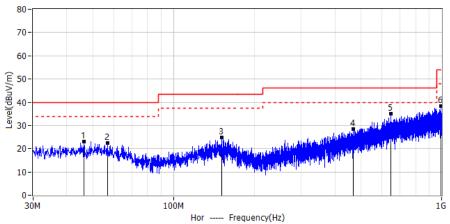
Limit line = specific limits (dBuV) + distance extrapolation factor.



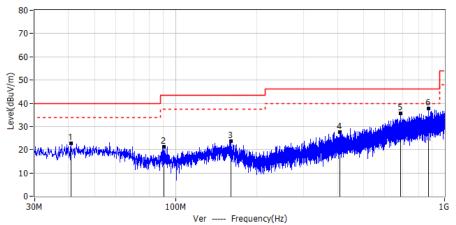
Results of Radiated Emissions (30MHz~1000MHz)

Note:1. All mode has been tested, only shown the worst case data, 2. The peak value is less than the AV limit, so no AV data is displayed.

Project: LGT24I086	Test Engineer: LiuH	
EUT: wireless headset	Temperature: 25.5°C	
M/N: A2	Humidity: 52%RH	
Test Voltage: Battery	Test Data: 2024-09-14	
Test Mode: TX		
Note:		



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	46.369	2.56	20.43	22.99	40.00	-17.01	QP	Hor
2*	56.796	2.60	19.93	22.53	40.00	-17.47	QP	Hor
3*	151.250	3.39	21.42	24.81	43.50	-18.69	QP	Hor
4*	466.985	2.49	25.95	28.44	46.00	-17.56	QP	Hor
5*	645.344	5.39	29.81	35.20	46.00	-10.80	QP	Hor
6*	993.816	4.55	33.77	38.32	54.00	-15.68	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.913	2.49	20.35	22.84	40.00	-17.16	QP	Ver
2*	90.383	5.07	16.20	21.27	43.50	-22.23	QP	Ver
3*	160.829	2.36	21.39	23.75	43.50	-19.75	QP	Ver
4*	408.300	2.91	24.77	27.68	46.00	-18.32	QP	Ver
5*	687.539	5.46	30.09	35.55	46.00	-10.45	QP	Ver
6*	869.050	4.74	32.94	37.68	46.00	-8.32	QP	Ver



Results of Radiated Emissions (Above 1000MHz)

bove 1000							
Frequency (MHz)	Reading (dBµV)	Orrected Factor (dB)	Reslut (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector	Polarity
			Low Channel ((2402 MHz)			
3264.80	55.24	-8.45	46.79	74.00	-27.21	PK	Vertical
3264.80	45.90	-8.45	37.45	54.00	-16.55	AV	Vertical
3264.82	55.53	-8.45	47.08	74.00	-26.92	PK	Horizonta
3264.82	46.37	-8.45	37.92	54.00	-16.08	AV	Horizonta
4804.46	55.00	-6.09	48.91	74.00	-25.09	PK	Vertical
4804.46	44.37	-6.09	38.28	54.00	-15.72	AV	Vertical
4804.57	54.85	-6.09	48.76	74.00	-25.24	PK	Horizonta
4804.57	45.33	-6.09	39.24	54.00	-14.76	AV	Horizonta
5359.69	56.88	-6.68	50.20	74.00	-23.80	PK	Vertical
5359.69	47.51	-6.68	40.83	54.00	-13.17	AV	Vertical
5359.59	56.77	-6.68	50.09	74.00	-23.91	PK	Horizonta
5359.59	48.33	-6.68	41.65	54.00	-12.35	AV	Horizonta
7205.94	60.95	-8.13	52.82	74.00	-21.18	PK	Vertical
7205.94	50.56	-8.13	42.43	54.00	-11.57	AV	Vertical
7205.93	59.75	-8.13	51.62	74.00	-22.38	PK	Horizonta
7205.93	50.92	-8.13	42.79	54.00	-11.21	AV	Horizonta



	Middle Channel (2441 MHz)						
3264.83	55.47	-8.45	47.02	74.00	-26.98	PK	Vertical
3264.83	45.05	-8.45	36.60	54.00	-17.40	AV	Vertical
3264.69	55.90	-8.45	47.45	74.00	-26.55	PK	Horizontal
3264.69	46.56	-8.45	38.11	54.00	-15.89	AV	Horizontal
4882.39	55.25	-6.09	49.16	74.00	-24.84	PK	Vertical
4882.39	45.60	-6.09	39.51	54.00	-14.49	AV	Vertical
4882.50	54.74	-6.09	48.65	74.00	-25.35	PK	Horizontal
4882.50	44.99	-6.09	38.90	54.00	-15.10	AV	Horizontal
5359.65	58.00	-6.68	51.32	74.00	-22.68	PK	Vertical
5359.65	47.50	-6.68	40.82	54.00	-13.18	AV	Vertical
5359.80	57.03	-6.68	50.35	74.00	-23.65	PK	Horizontal
5359.80	47.93	-6.68	41.25	54.00	-12.75	AV	Horizontal
7313.92	60.78	-8.13	52.65	74.00	-21.35	PK	Vertical
7313.92	50.22	-8.13	42.09	54.00	-11.91	AV	Vertical
7313.95	60.56	-8.13	52.43	74.00	-21.57	PK	Horizontal
7313.95	50.09	-8.13	41.96	54.00	-12.04	AV	Horizontal



	High Channel (2480 MHz)							
3264.74	56.10	-8.45	47.65	74.00	-26.35	PK	Vertical	
3264.74	46.91	-8.45	38.46	54.00	-15.54	AV	Vertical	
3264.81	55.23	-8.45	46.78	74.00	-27.22	PK	Horizontal	
3264.81	45.11	-8.45	36.66	54.00	-17.34	AV	Horizontal	
4960.33	54.83	-6.09	48.74	74.00	-25.26	PK	Vertical	
4960.33	45.04	-6.09	38.95	54.00	-15.05	AV	Vertical	
4960.33	54.31	-6.09	48.22	74.00	-25.78	PK	Horizontal	
4960.33	44.37	-6.09	38.28	54.00	-15.72	AV	Horizontal	
5359.79	56.67	-6.68	49.99	74.00	-24.01	PK	Vertical	
5359.79	46.99	-6.68	40.31	54.00	-13.69	AV	Vertical	
5359.65	56.70	-6.68	50.02	74.00	-23.98	PK	Horizontal	
5359.65	46.99	-6.68	40.31	54.00	-13.69	AV	Horizontal	
7439.74	60.88	-8.13	52.75	74.00	-21.25	PK	Vertical	
7439.74	50.56	-8.13	42.43	54.00	-11.57	AV	Vertical	
7439.93	60.85	-8.13	52.72	74.00	-21.28	PK	Horizontal	
7439.93	50.24	-8.13	42.11	54.00	-11.89	AV	Horizontal	

Remark:

In frequency ranges above 18GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



3.2.8 TEST RESULTS (BAND EDGE REQUIREMENTS)Note:1. All mode has been tested, only shown the worst case data,2. The peak value is less than the AV limit, so no AV data is displayed.

Frequency	Reading	Crrected	Reslut	Limits	Margin	Detector	Delerity
(MHz)	(dBµV)	Factor (dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector	Polarity
			GFS	K			
2390.00	12.89	34.10	46.99	74.00	-27.01	PK	Vertical
2390.00	0.87	34.10	34.97	54.00	-19.03	AV	Vertical
2390.00	13.59	34.10	47.69	74.00	-26.31	PK	Horizontal
2390.00	1.36	34.10	35.46	54.00	-18.54	AV	Horizontal
2483.50	14.14	34.44	48.58	74.00	-25.42	PK	Vertical
2483.50	2.30	34.44	36.74	54.00	-17.26	AV	Vertical
2483.50	15.14	34.44	49.58	74.00	-24.42	PK	Horizontal
2483.50	3.33	34.44	37.77	54.00	-16.23	AV	Horizontal

	π/4-DQPSK						
2390.00	12.95	34.10	47.05	74.00	-26.95	PK	Vertical
2390.00	1.66	34.10	35.76	54.00	-18.24	AV	Vertical
2390.00	12.76	34.10	46.86	74.00	-27.14	PK	Horizontal
2390.00	1.78	34.10	35.88	54.00	-18.12	AV	Horizontal
2483.50	14.53	34.44	48.97	74.00	-25.03	PK	Vertical
2483.50	2.15	34.44	36.59	54.00	-17.41	AV	Vertical
2483.50	14.99	34.44	49.43	74.00	-24.57	PK	Horizontal
2483.50	3.16	34.44	37.60	54.00	-16.40	AV	Horizontal

			8DP	SK			
2390.00	12.51	34.10	46.61	74.00	-27.39	PK	Vertical
2390.00	1.86	34.10	35.96	54.00	-18.04	AV	Vertical
2390.00	12.55	34.10	46.65	74.00	-27.35	PK	Horizontal
2390.00	2.05	34.10	36.15	54.00	-17.85	AV	Horizontal
2483.50	14.56	34.44	49.00	74.00	-25.00	PK	Vertical
2483.50	3.00	34.44	37.44	54.00	-16.56	AV	Vertical
2483.50	14.68	34.44	49.12	74.00	-24.88	PK	Horizontal
2483.50	2.39	34.44	36.83	54.00	-17.17	AV	Horizontal
Low measur	rement frequ	iencies is ran	ge from 2310	to 2404 MH	lz, high mea	surement	frequencies is

range from 2478 to 2500 MHz.



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

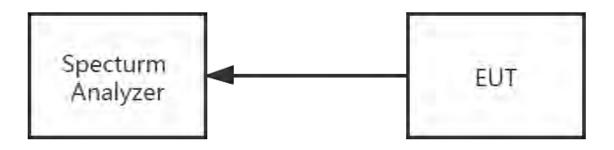
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stap Fraguenov	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
Start/Stap Eraguanav	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





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

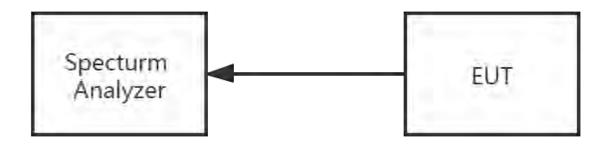
FCC Part 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	300KHz
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= 300KHz, 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

For the measurement records [,] refer to the appendix I.



6. 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

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 DH5, DH3 and DH1 packet transmitting.
- \tilde{h} . Measure the maximum time duration of one single pulse.
- i. DH5 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 x 31.6 = 106.6.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 5.06 x 31.6 = 160.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So the number of pulses in the observation period of 31.6 seconds is 10.12 x 31.6 = 320.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS



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 \geq 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.

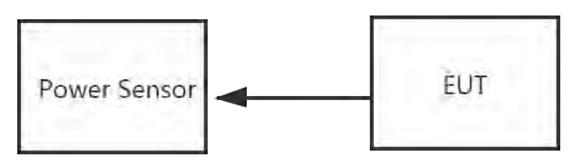
e) A plot of the test results and setup description shall be included in the test report.

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.

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS



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 Chip Antenna. It comply with the standard requirement.



APPENDIX I - TEST RESULTS

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.7	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.7	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.65	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.85	1.09	0.34
NVNT	2-DH5	2441	Ant1	77.85	1.09	0.34
NVNT	2-DH5	2480	Ant1	77.84	1.09	0.34
NVNT	3-DH5	2402	Ant1	77.85	1.09	0.34
NVNT	3-DH5	2441	Ant1	77.84	1.09	0.34
NVNT	3-DH5	2480	Ant1	77.85	1.09	0.34















Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.03	21	Pass
NVNT	1-DH5	2441	Ant1	3.31	21	Pass
NVNT	1-DH5	2480	Ant1	3.19	21	Pass
NVNT	2-DH5	2402	Ant1	2.01	21	Pass
NVNT	2-DH5	2441	Ant1	3.16	21	Pass
NVNT	2-DH5	2480	Ant1	3.25	21	Pass
NVNT	3-DH5	2402	Ant1	2.01	21	Pass
NVNT	3-DH5	2441	Ant1	3.15	21	Pass
NVNT	3-DH5	2480	Ant1	3.33	21	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	ANT GAIN (dBi)	EIRP (dBm)	EIRP LIMIT(dB m)	Verdict
NVNT	1-DH5	2402	Ant1	2.03	1.8	3.83	36.02	Pass
NVNT	1-DH5	2441	Ant1	3.31	1.8	5.11	36.02	Pass
NVNT	1-DH5	2480	Ant1	3.19	1.8	4.99	36.02	Pass
NVNT	2-DH5	2402	Ant1	2.01	1.8	3.81	36.02	Pass
NVNT	2-DH5	2441	Ant1	3.16	1.8	4.96	36.02	Pass
NVNT	2-DH5	2480	Ant1	3.25	1.8	5.05	36.02	Pass
NVNT	3-DH5	2402	Ant1	2.01	1.8	3.81	36.02	Pass
NVNT	3-DH5	2441	Ant1	3.15	1.8	4.95	36.02	Pass
NVNT	3-DH5	2480	Ant1	3.33	1.8	5.13	36.02	Pass



-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.942	Pass
NVNT	1-DH5	2441	Ant1	0.948	Pass
NVNT	1-DH5	2480	Ant1	0.939	Pass
NVNT	2-DH5	2402	Ant1	1.271	Pass
NVNT	2-DH5	2441	Ant1	1.176	Pass
NVNT	2-DH5	2480	Ant1	1.222	Pass
NVNT	3-DH5	2402	Ant1	1.235	Pass
NVNT	3-DH5	2441	Ant1	1.186	Pass
NVNT	3-DH5	2480	Ant1	1.195	Pass















Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.867
NVNT	1-DH5	2441	Ant1	0.866
NVNT	1-DH5	2480	Ant1	0.861
NVNT	2-DH5	2402	Ant1	1.16
NVNT	2-DH5	2441	Ant1	1.156
NVNT	2-DH5	2480	Ant1	1.141
NVNT	3-DH5	2402	Ant1	1.157
NVNT	3-DH5	2441	Ant1	1.171
NVNT	3-DH5	2480	Ant1	1.149















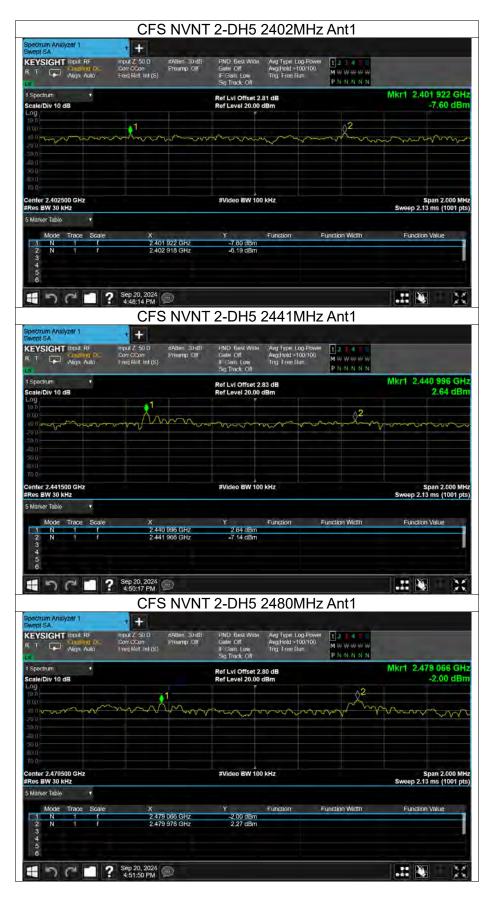
Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.008	2402.958	0.95	0.628	Pass
NVNT	1-DH5	Ant1	2440.976	2442.036	1.06	0.632	Pass
NVNT	1-DH5	Ant1	2478.984	2479.946	0.962	0.626	Pass
NVNT	2-DH5	Ant1	2401.922	2402.918	0.996	0.847	Pass
NVNT	2-DH5	Ant1	2440.996	2441.966	0.97	0.784	Pass
NVNT	2-DH5	Ant1	2479.066	2479.978	0.912	0.815	Pass
NVNT	3-DH5	Ant1	2401.99	2402.996	1.006	0.823	Pass
NVNT	3-DH5	Ant1	2440.976	2441.998	1.022	0.791	Pass
NVNT	3-DH5	Ant1	2478.976	2480.086	1.11	0.797	Pass

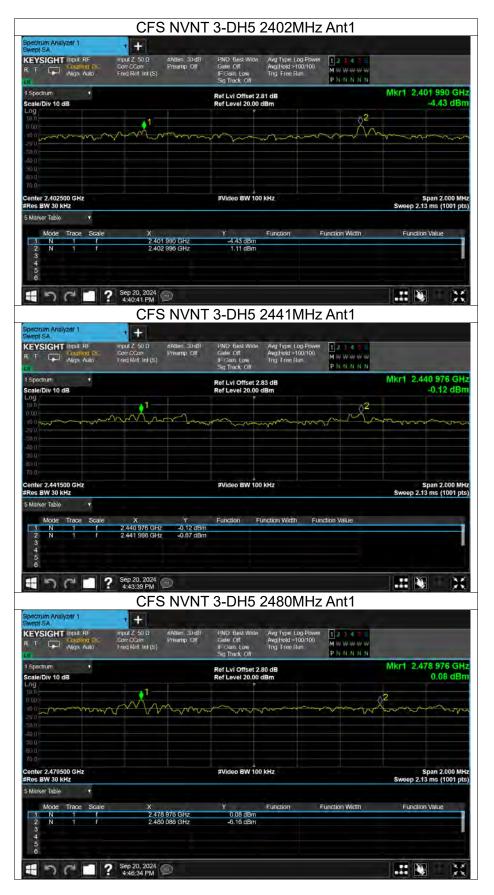














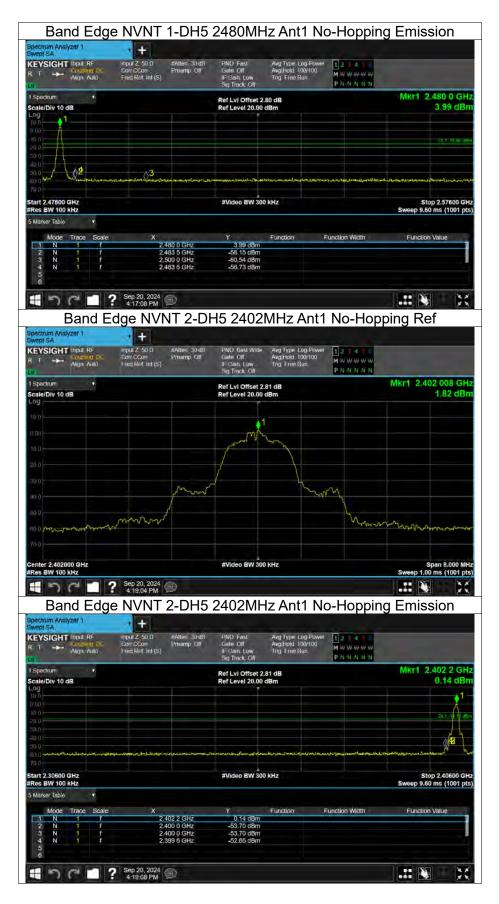
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.99	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.86	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.47	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-61.67	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.85	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-61.69	-20	Pass

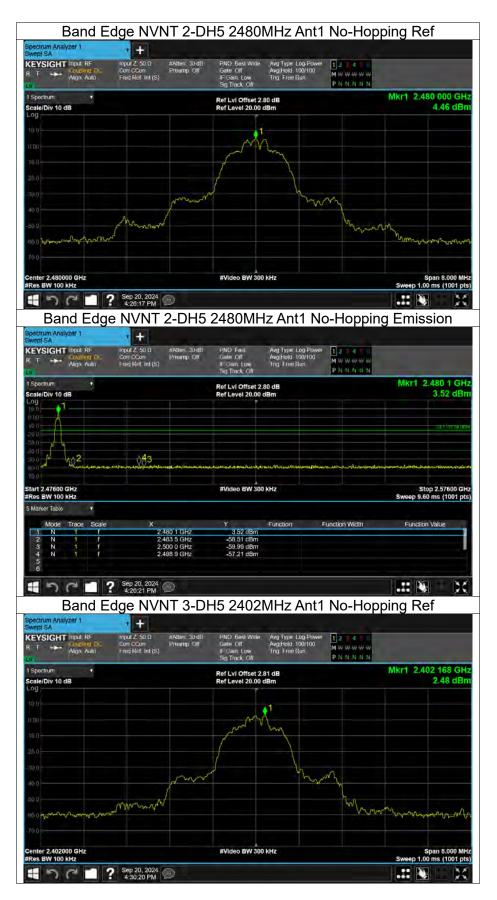


















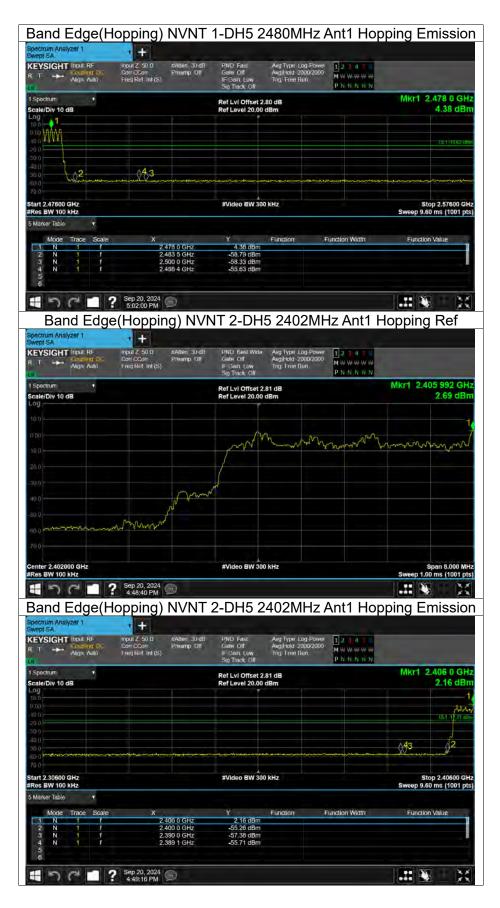
Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.24	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.39	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.32	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.62	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.37	-20	Pass

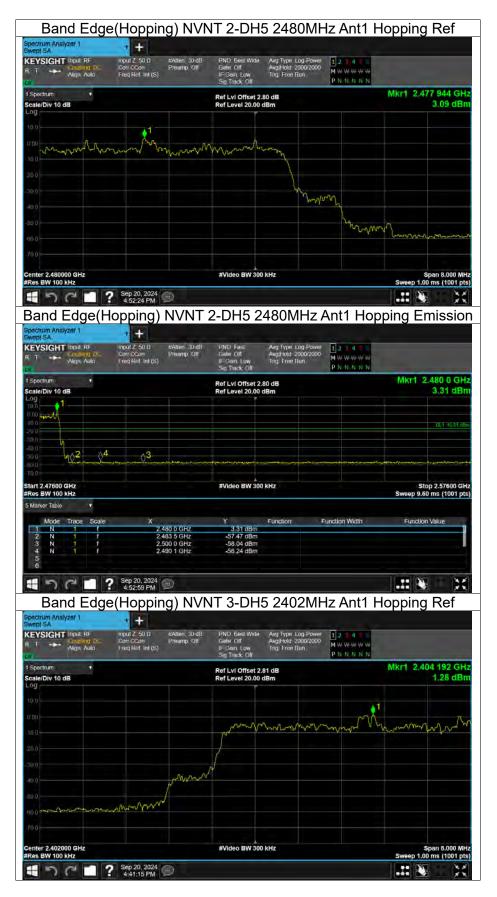














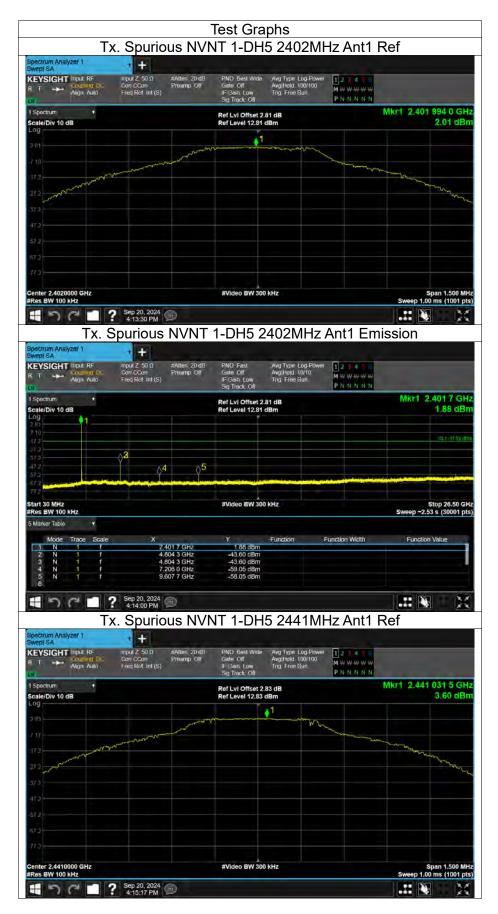




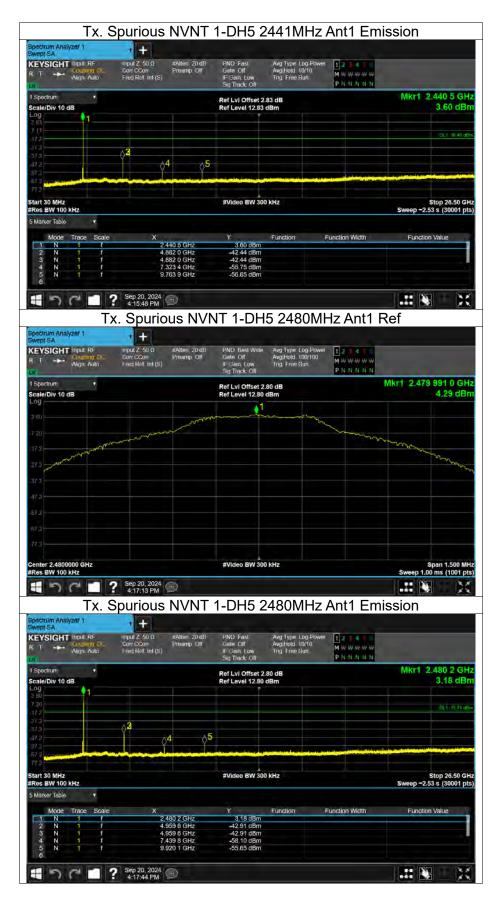
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-45.61	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.04	-20	Pass
NVNT	1-DH5	2480	Ant1	-47.2	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.1	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.14	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.09	-20	Pass
NVNT	3-DH5	2402	Ant1	-46.59	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.33	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.3	-20	Pass

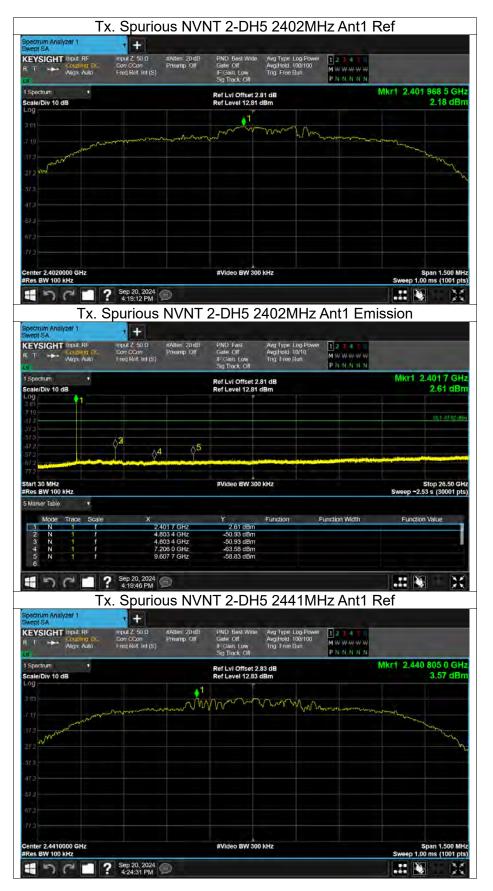




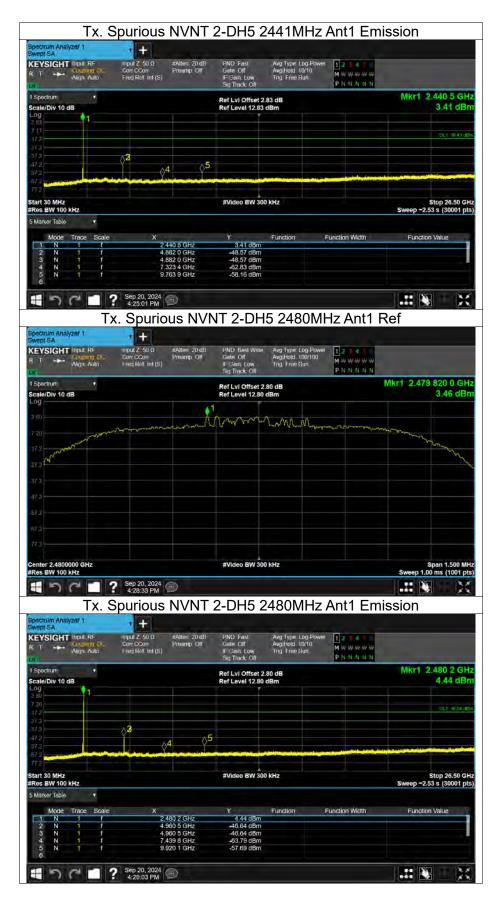




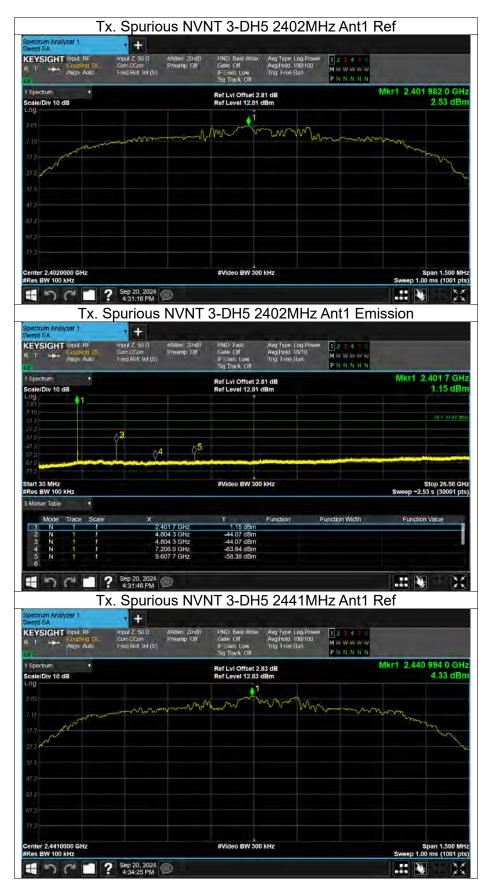




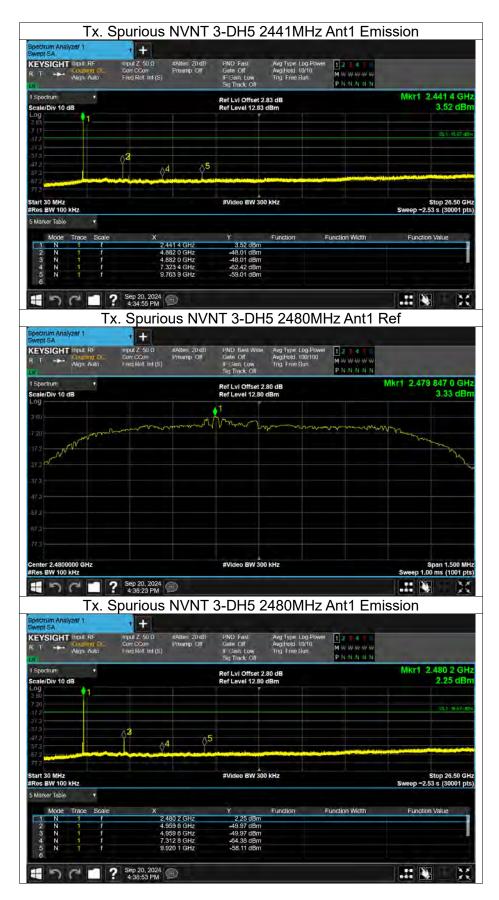














Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass







Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2441	Ant1	2.908	325.696	112	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.914	323.454	111	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.915	341.055	117	31600	400	Pass











APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID & IC.



Note: Please see the attached A2_EUT Photos.