

RF TEST REPORT

Product Name: Smart LTE Terminal

Model Name: M6L, M6Lite, M6G, M6S, M6X

FCC ID: 2AYEZ-M6L

Issued For : Telo Communication (Shenzhen) Co., Ltd

6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen,

China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan

District, Shenzhen, Guangdong, China

Report Number: LGT23E077RF01

Sample Received Date: Jun. 01, 2023

Date of Test: Jun. 01, 2023 – Jul. 06, 2023

Date of Issue: Jul. 06, 2023

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TEST REPORT CERTIFICATION

Applicant: Telo Communication (Shenzhen) Co., Ltd

Address: 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Manufacturer: Telo Communication (Shenzhen) Co., Ltd

Address: 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Product Name: Smart LTE Terminal

Trademark: TELOX

Model Name: M6L, M6Lite, M6G, M6S, M6X

Sample Status: Normal

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

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Technical Director

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Revision History

Rev.	Issue Date	Contents
00	Jul. 06, 2023	Initial Issue

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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	Lact Itam Lidamant Pamark				
15.207	Conducted Emission	N/A			
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 PASS Emission				
15.247(a)(1)(iii)	Number of Hopping Frequency PAS				
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.

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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 $\mathbf{y} \pm \mathbf{U}$, 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 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.

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Smart LTE Terminal
Trademark:	TELOX
Model Name:	M6L
Series Model:	M6Lite, M6G, M6S, M6X
Model Difference:	Different model names.
Channel List:	Please refer to the Note 2.
Bluetooth:	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Antenna Type:	Please refer to the Note 3.
Rating:	Input: DC 12V-24V, 2A
Battery:	N/A
Hardware Version:	M6_EM50_V2
Software Version:	M6L_US_V3.0_20230419
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.

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2.

	Channel 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			

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	TELOX	M6L	External antenna	N/A	2.9	BT ANT

The antenna information provide by manufacturer, applicable only to the tested sample identified in the report.



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.

For AC Conducted Emission

Test Case		
AC Conducted Emission	Mode 13: Keeping BT 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.

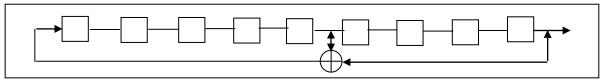
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(2) The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one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

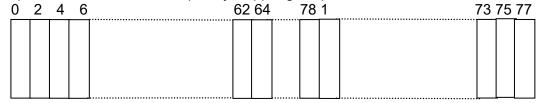
Numver of shift register stages:9

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 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 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.

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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		
DRTU	Mode Or Modulation type	Power setting	
	1M	Default	
	2M	Default	
	3M	Default	

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

	tessessins Equipment				
Description	Manufacturer	Model	S/N	Rating	

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	Thinkbook 14	N/A	N/A

Note:

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

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2.6 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12
LISN	COM-POWER	LI-115	02032	2023.04.07	2024.04.06
LISN	SCHWARZBECK	NNLK 8121	00847	2023.04.07	2024.04.06
LISN	SCHWARZBECK	NNLK 8122	00160	2023.04.07	2024.04.06
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2023.04.07	2024.04.06
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
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	2023.04.13	2024.04.12
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2025.06.04
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier(9kHz-1GHz)	EMtrace	RP01A	02017	2023.04.07	2024.04.06
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Testing Software	EMC-I_V1.4.0.3_SKET				

Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09
Wireless Communications Test Set	R&S	CMW 500	137737	2023.04.13	2024.04.12
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2023.04.07	2024.04.06
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2023.04.13	2024.04.12
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2023.05.10	2024.05.09
Attenuator	eastsheep	90db	N.A	2023.04.10	2024.04.09
Testing Software	MTS8200_ V2.0.0.0_MW				

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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.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)		
	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

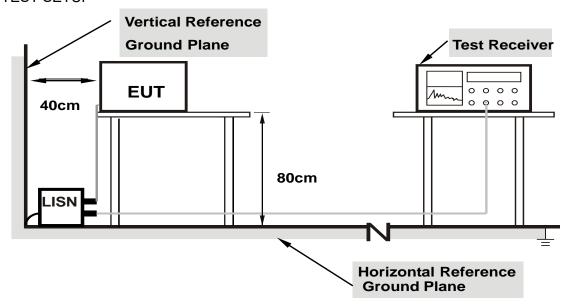
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3.1.2 TEST PROCEDURE

- 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

N/A

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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	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)
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

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

For Restricted band

Spectrum Parameter	Setting
Detector	Peak
Chart/Chara Fina musican	Lower Band Edge: 2310 to 2410 MHz
Start/Stop Frequency	Upper Band Edge: 2476 to 2500 MHz
RB / VB	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

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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.

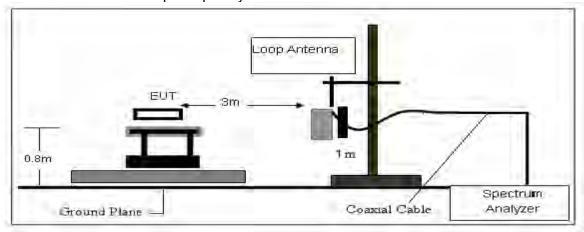
3.2.3 DEVIATION FROM TEST STANDARD No deviation.

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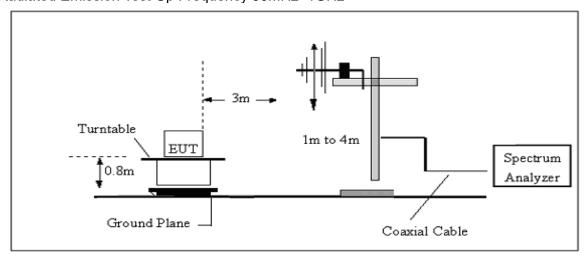


3.2.4 TESTSETUP

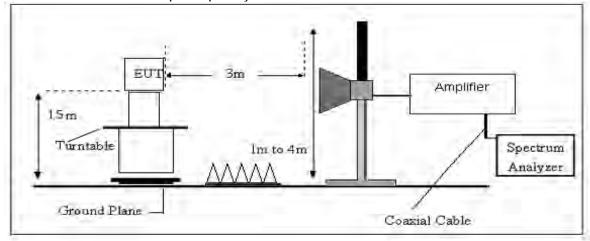
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:

FS = 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

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*	-	-	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);

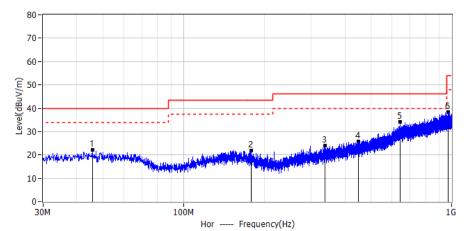
Limit line = specific limits (dBuV) + distance extrapolation factor.

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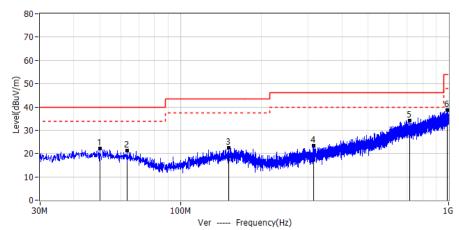


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT23E077	Test Engineer: Dylan.shi
EUT: Smart LTE Vehicle Terminal	Temperature: 27.7°C
M/N: M6L	Humidity: 51%RH
Test Voltage: DC 12V	Test Data: 2023-06-27
Test Mode: BT TX	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	45.763MHz	3.01	19.24	22.25	40.00	-17.75	PK	Hor
2*	179.501MHz	3.07	18.88	21.95	43.50	-21.55	PK	Hor
3*	337.248MHz	3.14	20.94	24.08	46.00	-21.92	PK	Hor
4*	449.161MHz	1.91	23.77	25.68	46.00	-20.32	PK	Hor
5*	642.555MHz	5.10	29.05	34.15	46.00	-11.85	PK	Hor
6*	971.628MHz	3.89	34.38	38.27	54.00	-15.73	PK	Hor



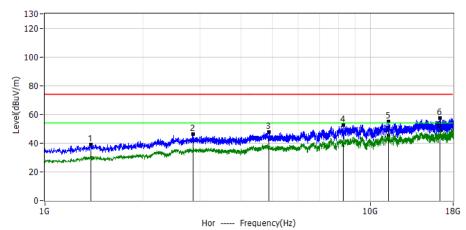
No.	Eroguenev	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	Frequency	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Polai
1*	50.128MHz	2.92	19.35	22.27	40.00	-17.73	PK	Ver
2*	63.465MHz	2.75	18.43	21.18	40.00	-18.82	PK	Ver
3*	151.008MHz	2.55	19.98	22.53	43.50	-20.97	PK	Ver
4*	314.210MHz	3.14	20.36	23.50	46.00	-22.50	PK	Ver
5*	717.730MHz	4.26	30.00	34.26	46.00	-11.74	PK	Ver
6*	990.543MHz	4.08	34.53	38.61	54.00	-15.39	PK	Ver

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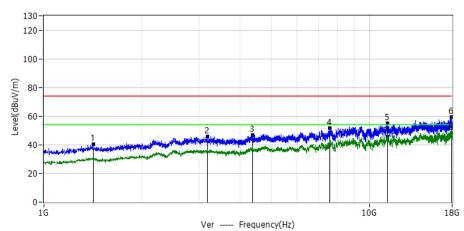


Results of Radiated Emissions (Above 1000MHz)

Project: LGT23E077	Test Engineer: Dylan.shi
EUT: Smart LTE Terminal	Temperature: 25.8°C
M/N: M6L	Humidity: 59%RH
Test Voltage: DC 12V	Test Data: 2023-06-18
Test Mode: DH5 2402	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3825GHz	60.68	-21.52	39.16	74.00	-34.84	PK	Hor
2*	2.8530GHz	55.18	-9.12	46.06	74.00	-27.94	PK	Hor
3*	4.8909GHz	53.86	-6.06	47.80	74.00	-26.20	PK	Hor
4*	8.2526GHz	55.95	-3.29	52.66	74.00	-21.34	PK	Hor
5*	11.3891GHz	53.00	1.86	54.86	74.00	-19.14	PK	Hor
6*	16.3722GHz	50.79	6.84	57.63	74.00	-16.37	PK	Hor
7*	11.3891GHz	43.54	1.86	45.40	54.00	-8.60	AV	Hor
8*	16.3722GHz	41.86	6.84	48.70	54.00	-5.30	AV	Hor

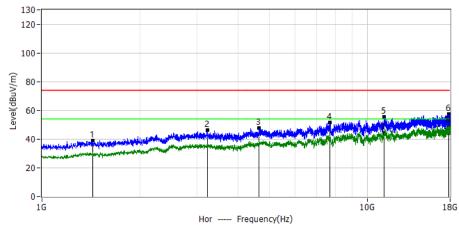


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.4186GHz	61.72	-21.28	40.44	74.00	-33.56	PK	Ver
2*	3.1760GHz	54.08	-8.40	45.68	74.00	-28.32	PK	Ver
3*	4.3702GHz	53.21	-6.30	46.91	74.00	-27.09	PK	Ver
4*	7.5726GHz	55.77	-4.25	51.52	74.00	-22.48	PK	Ver
5*	11.3891GHz	52.94	1.86	54.80	74.00	-19.20	PK	Ver
6*	17.9362GHz	51.06	8.48	59.54	74.00	-14.46	PK	Ver
7*	11.3891GHz	43.94	1.86	45.80	54.00	-8.20	AV	Ver
8*	17.9362GHz	39.82	8.48	48.30	54.00	-5.70	AV	Ver

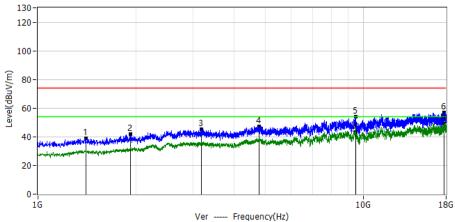
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Project: LGT23E077	Test Engineer: Dylan.shi
EUT: Smart LTE Terminal	Temperature: 25.8°C
M/N: M6L	Humidity: 59%RH
Test Voltage: DC 12V	Test Data: 2023-06-18
Test Mode: DH5 2441	
Note:	



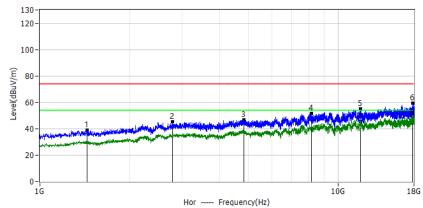
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar	
1*	1.4292GHz	60.28	-21.22	39.06	74.00	-34.94	PK	Hor	
2*	3.2206GHz	54.89	-8.41	46.48	74.00	-27.52	PK	Hor	
3*	4.6529GHz	53.49	-5.87	47.62	74.00	-26.38	PK	Hor	
4*	7.6640GHz	55.69	-4.20	51.49	74.00	-22.51	PK	Hor	
5*	11.2701GHz	53.58	1.79	55.37	74.00	-18.63	PK	Hor	
6*	17.8257GHz	48.96	8.40	57.36	74.00	-16.64	PK	Hor	
7*	11.2701GHz	42.31	1.79	44.10	54.00	-9.90	AV	Hor	
8*	17.8257GHz	40.70	8.40	49.10	54.00	-4.90	AV	Hor	



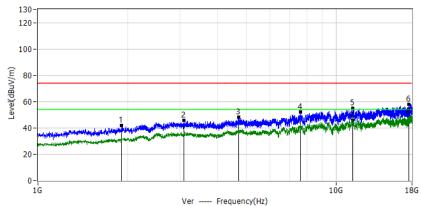
	ver riequency(nz)										
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar			
	. ,	dBuV	dB/m	dBuV/m	dBuV/m	dB					
1*	1.4037GHz	60.42	-21.36	39.06	74.00	-34.94	PK	Ver			
2*	1.9222GHz	58.85	-17.02	41.83	74.00	-32.17	PK	Ver			
3*	3.1802GHz	53.48	-8.40	45.08	74.00	-28.92	PK	Ver			
4*	4.7931GHz	53.20	-5.98	47.22	74.00	-26.78	PK	Ver			
5*	9.4809GHz	55.44	-1.17	54.27	74.00	-19.73	PK	Ver			
6*	17.7216GHz	48.76	8.33	57.09	74.00	-16.91	PK	Ver			
7*	9.4809GHz	44.57	-1.17	43.40	54.00	-10.60	AV	Ver			
8*	17.7216GHz	40.87	8.33	49.20	54.00	-4.80	AV	Ver			



Project: LGT23E077	Test Engineer: Dylan.shi
EUT: Smart LTE Terminal	Temperature: 25.8°C
M/N: M6L	Humidity: 59%RH
Test Voltage: DC 12V	Test Data: 2023-06-18
Test Mode: DH5 2480	
Note:	



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	rrequericy	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	i Olai
1*	1.4420GHz	60.07	-21.15	38.92	74.00	-35.08	PK	Hor
2*	2.7786GHz	54.55	-9.51	45.04	74.00	-28.96	PK	Hor
3*	4.8271GHz	52.80	-6.01	46.79	74.00	-27.21	PK	Hor
4*	8.1336GHz	55.39	-3.62	51.77	74.00	-22.23	PK	Hor
5*	11.9267GHz	52.70	2.18	54.88	74.00	-19.12	PK	Hor
6*	17.8321GHz	51.00	8.40	59.40	74.00	-14.60	PK	Hor
7*	11.9267GHz	43.02	2.18	45.20	54.00	-8.80	AV	Hor
8*	17.8321GHz	40.00	8.40	48.40	54.00	-5.60	AV	Hor



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
		dBuV	dB/m	dBuV/m	dBuV/m	dB		
1*	1.9095GHz	59.15	-17.15	42.00	74.00	-32.00	PK	Ver
2*	3.0952GHz	54.04	-8.37	45.67	74.00	-28.33	PK	Ver
3*	4.7145GHz	54.06	-5.92	48.14	74.00	-25.86	PK	Ver
4*	7.6002GHz	56.12	-4.24	51.88	74.00	-22.12	PK	Ver
5*	11.3955GHz	53.25	1.86	55.11	74.00	-18.89	PK	Ver
6*	17.6005GHz	49.55	8.24	57.79	74.00	-16.21	PK	Ver
7*	11.3955GHz	43.84	1.86	45.70	54.00	-8.30	AV	Ver
8*	17.6005GHz	39.86	8.24	48.10	54.00	-5.90	AV	Ver

Remark:

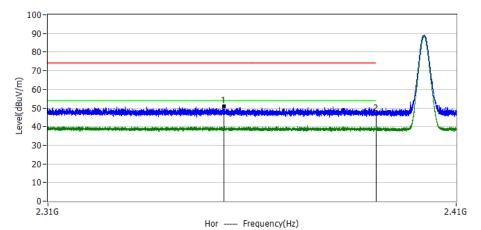
In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

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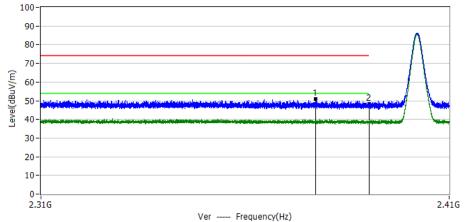


3.2.8 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT23E077	Test Engineer: Dylan.shi	
EUT: Smart LTE Terminal	Temperature: 25.8°C	
M/N: M6L	Humidity: 59%RH	
Test Voltage: DC 12V	Test Data: 2023-06-18	
Test Mode: DH5 2402	•	
Note:		



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3525GHz	17.08	34.04	51.12	74.00	-22.88	PK	Hor
2*	2.3900GHz	12.95	33.95	46.90	74.00	-27.10	PK	Hor

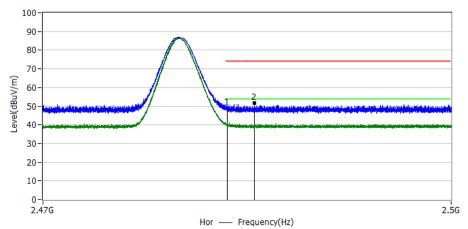


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3769GHz	16.83	33.98	50.81	74.00	-23.19	PK	Ver
2*	2.3900GHz	14.35	33.95	48.30	74.00	-25.70	PK	Ver

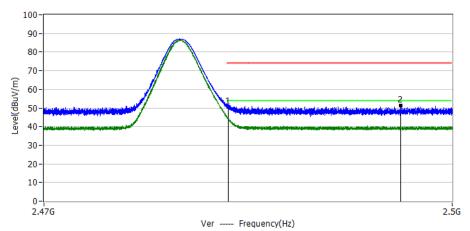
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Project: LGT23E077	Test Engineer: Dylan.shi
EUT: Smart LTE Terminal	Temperature: 25.8°C
M/N: M6L	Humidity: 59%RH
Test Voltage: DC 12V	Test Data: 2023-06-18
Test Mode: DH5 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	14.87	34.13	49.00	74.00	-25.00	PK	Hor
2*	2.4855GHz	17.44	34.13	51.57	74.00	-22.43	PK	Hor



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	16.27	34.13	50.40	74.00	-23.60	PK	Ver
2*	2.4962GHz	17.13	34.16	51.29	74.00	-22.71	PK	Ver

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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		
Start/Stan 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		
04-4/04-5 5-5-5-5	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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4.3 TEST SETUP



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

For the measurement records, refer to the appendix I.

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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.

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6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

FCC Part 15.247, Subpart C						
Section Test Item Limit FrequencyRange (MHz)						
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.
- 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 $3.37 \times 31.6 = 106.6$.
- 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 $5.06 \times 31.6 = 160$.
- 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

For the measurement records, refer to the appendix I.

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7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

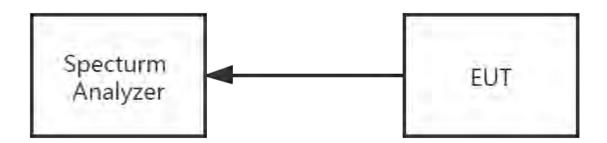
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that 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 Separatio	
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

For the measurement records, refer to the appendix I.

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8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247, Subpart C						
Section Test Item Limit FrequencyRange (MHz) Resul						
15.247 (a)(1)	Bandwidth	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

For the measurement records, refer to the appendix I.

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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

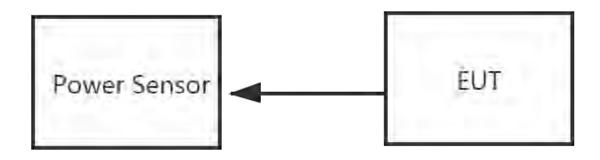
This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

- 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.

9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS

For the measurement records, refer to the appendix I.

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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 Dipole antenna. It comply with the standard requirement.

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APPENDIX I:TEST RESULTS

Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.375	117.75	314	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.635	253.425	155	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	293.964	102	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	121.66	316	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.635	253.425	155	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.883	294.066	102	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.383	121.411	317	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.635	255.06	156	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	291.587	101	31600	400	Pass

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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.86	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.89	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.89	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.98	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.02	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.03	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.03	1.13	0.35

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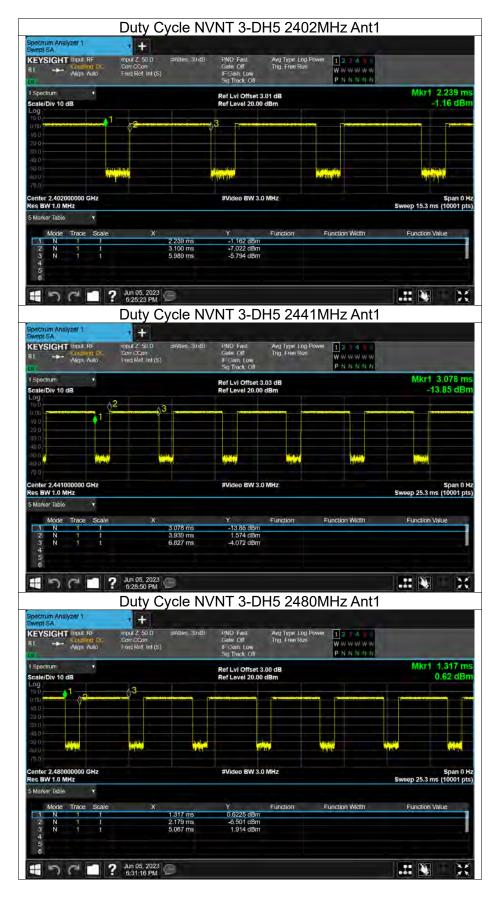














Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	4.83	21	Pass
NVNT	1-DH5	2441	Ant1	3.14	21	Pass
NVNT	1-DH5	2480	Ant1	5.03	21	Pass
NVNT	2-DH5	2402	Ant1	4.09	21	Pass
NVNT	2-DH5	2441	Ant1	2.53	21	Pass
NVNT	2-DH5	2480	Ant1	4.13	21	Pass
NVNT	3-DH5	2402	Ant1	4.19	21	Pass
NVNT	3-DH5	2441	Ant1	2.63	21	Pass
NVNT	3-DH5	2480	Ant1	4.16	21	Pass

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-20dB Bandwidth

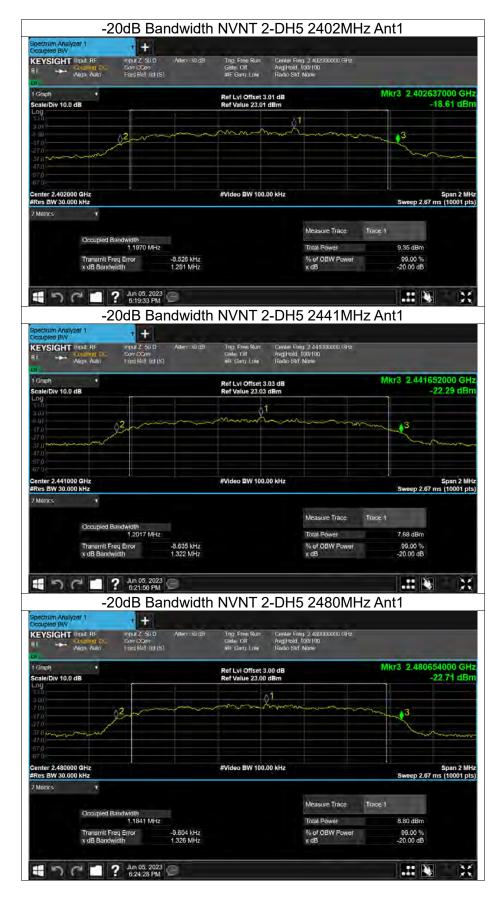
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.941	Pass
NVNT	1-DH5	2441	Ant1	1.028	Pass
NVNT	1-DH5	2480	Ant1	1.031	Pass
NVNT	2-DH5	2402	Ant1	1.291	Pass
NVNT	2-DH5	2441	Ant1	1.322	Pass
NVNT	2-DH5	2480	Ant1	1.326	Pass
NVNT	3-DH5	2402	Ant1	1.292	Pass
NVNT	3-DH5	2441	Ant1	1.323	Pass
NVNT	3-DH5	2480	Ant1	1.3	Pass

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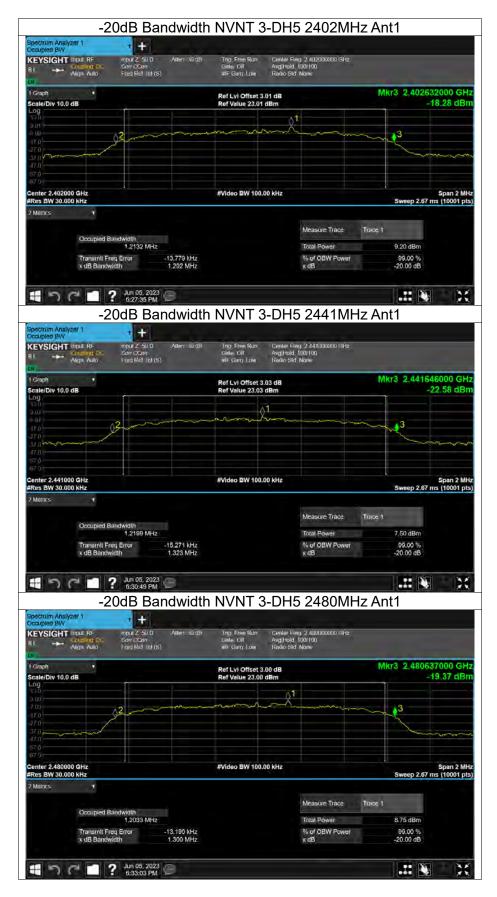














Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.896
NVNT	1-DH5	2441	Ant1	0.905
NVNT	1-DH5	2480	Ant1	0.9
NVNT	2-DH5	2402	Ant1	1.206
NVNT	2-DH5	2441	Ant1	1.22
NVNT	2-DH5	2480	Ant1	1.181
NVNT	3-DH5	2402	Ant1	1.218
NVNT	3-DH5	2441	Ant1	1.231
NVNT	3-DH5	2480	Ant1	1.19

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Carrier Frequencies Separation

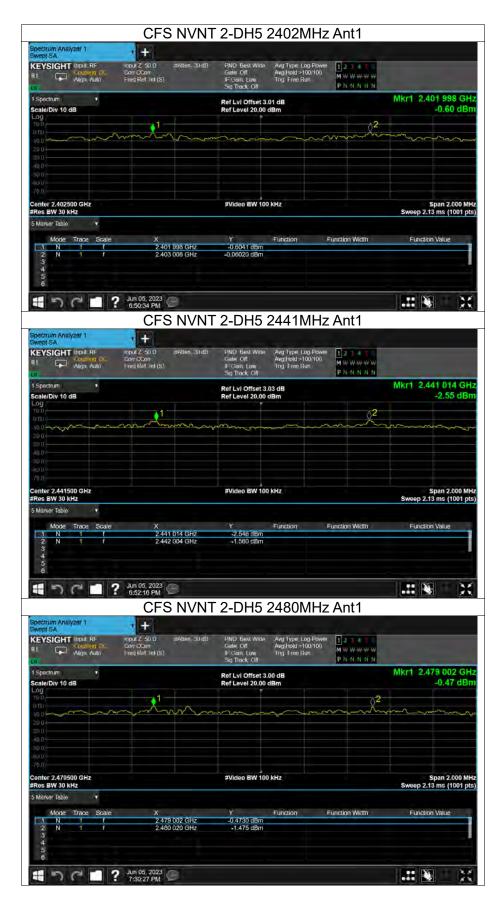
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.954	2403.004	1.05	0.627	Pass
NVNT	1-DH5	Ant1	2440.998	2441.996	0.998	0.685	Pass
NVNT	1-DH5	Ant1	2478.982	2479.958	0.976	0.687	Pass
NVNT	2-DH5	Ant1	2401.998	2403.008	1.01	0.861	Pass
NVNT	2-DH5	Ant1	2441.014	2442.004	0.99	0.881	Pass
NVNT	2-DH5	Ant1	2479.002	2480.02	1.018	0.884	Pass
NVNT	3-DH5	Ant1	2401.934	2403.012	1.078	0.861	Pass
NVNT	3-DH5	Ant1	2441.01	2441.996	0.986	0.882	Pass
NVNT	3-DH5	Ant1	2478.908	2480.066	1.158	0.867	Pass

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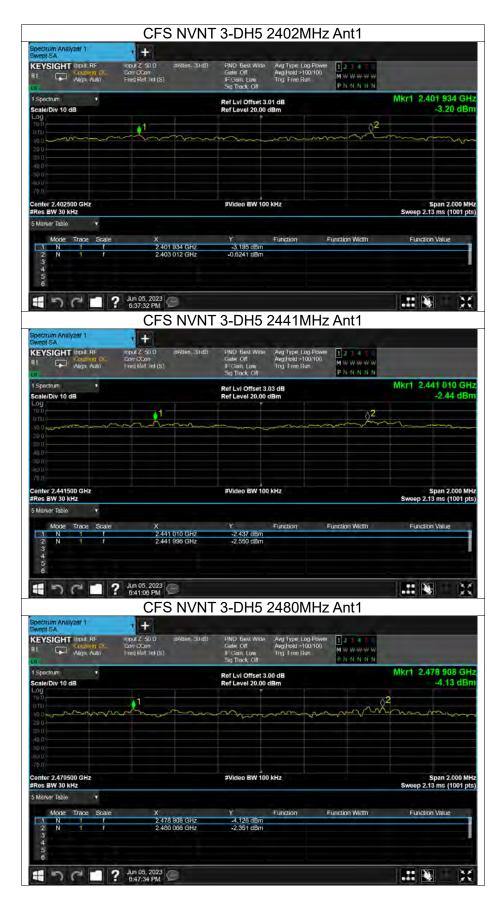












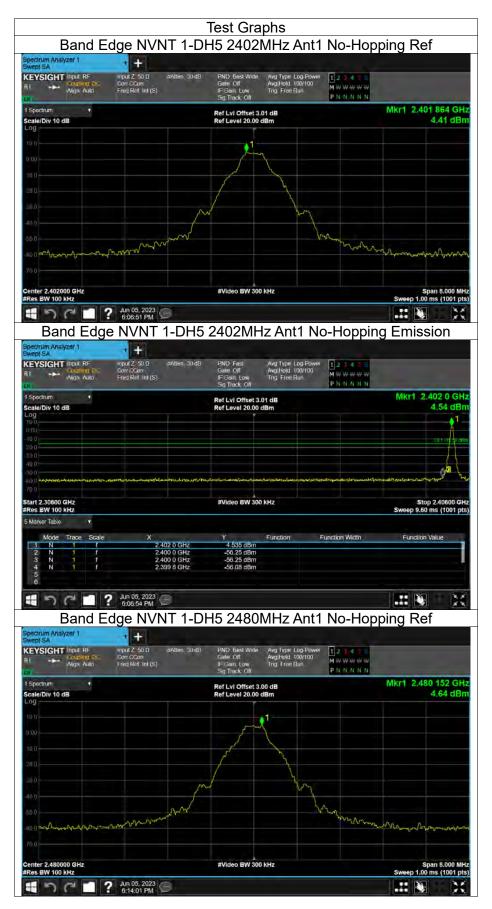


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.48	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.74	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.86	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.65	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.57	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.01	-20	Pass

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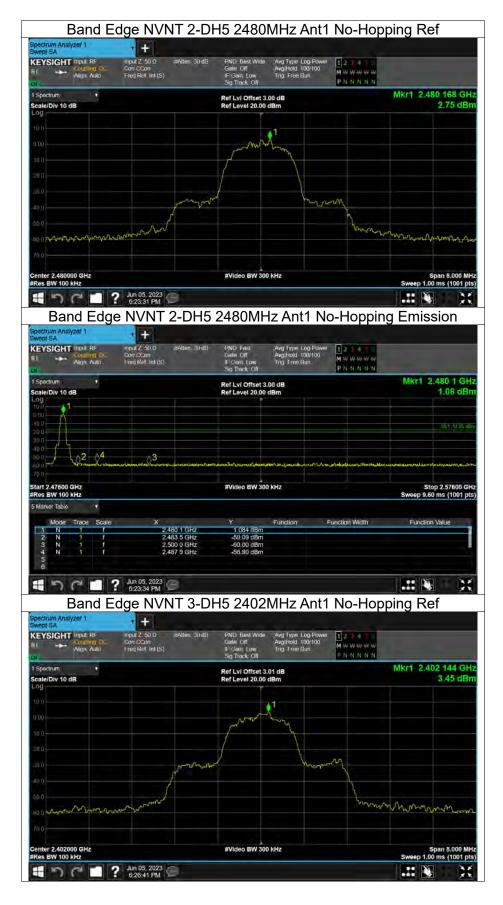




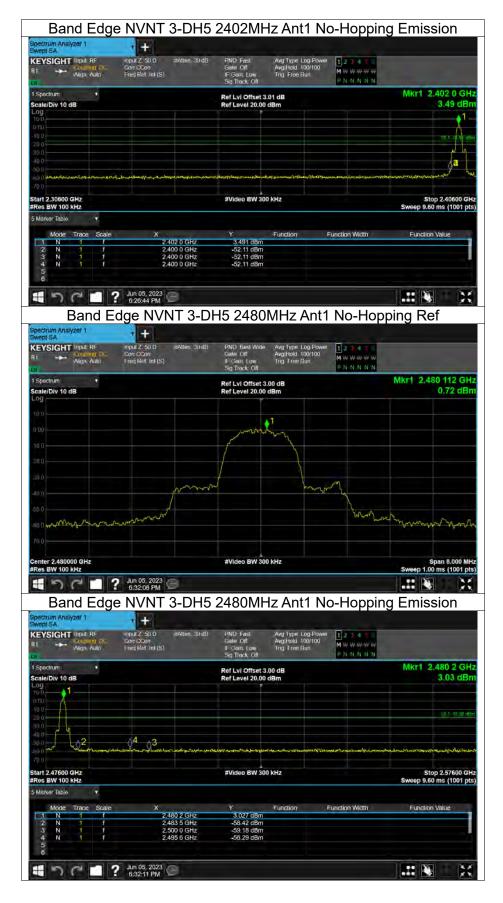












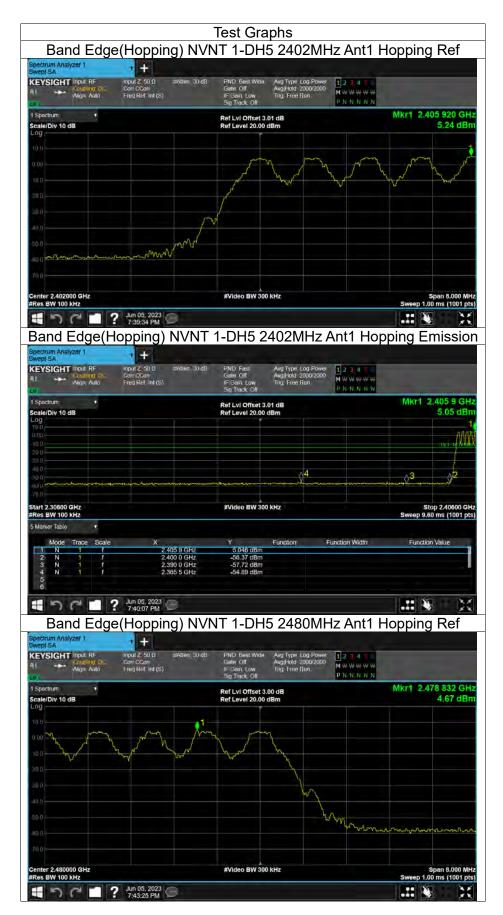


Band Edge(Hopping)

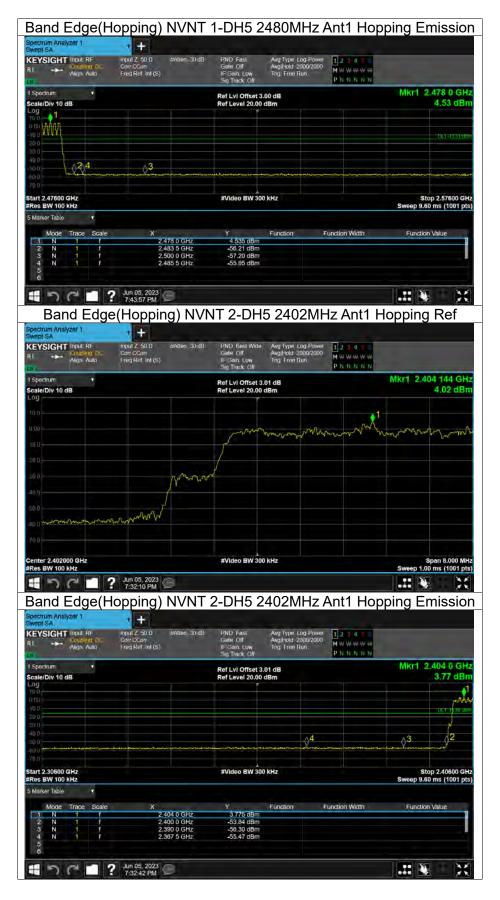
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-60.12	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.62	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.48	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.02	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-59.3	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.87	-20	Pass

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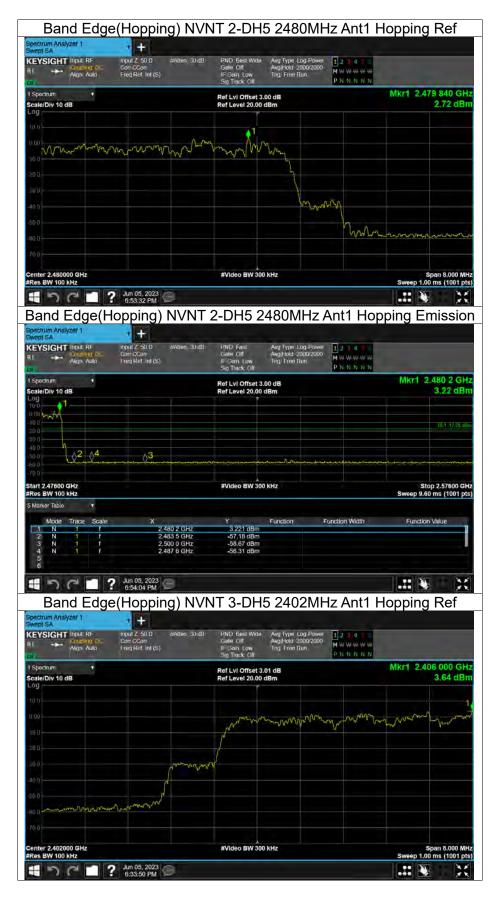




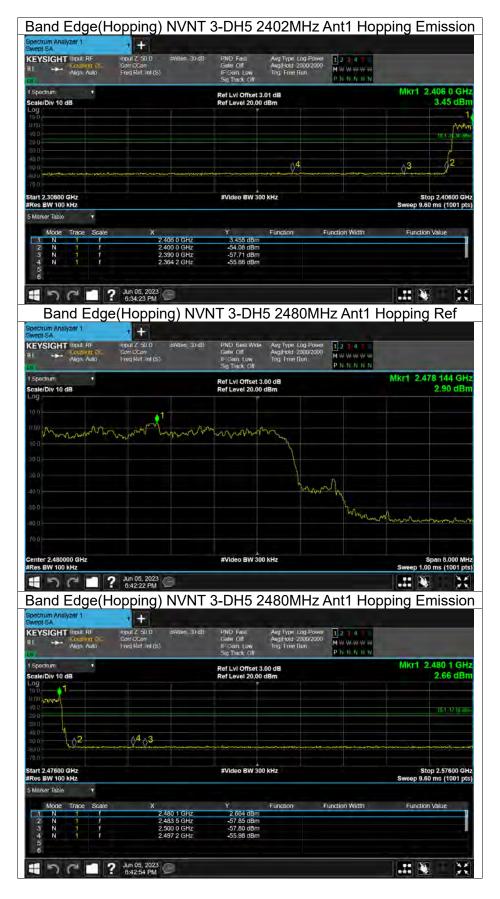












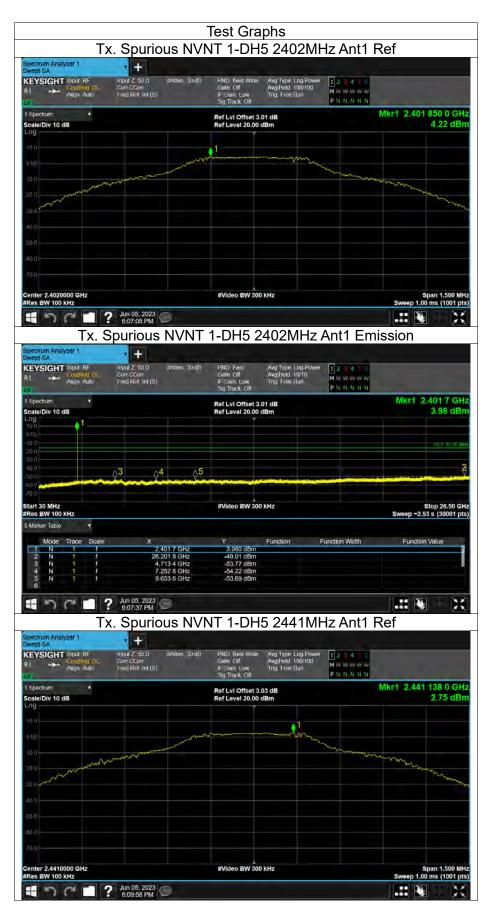


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.22	-20	Pass
NVNT	1-DH5	2441	Ant1	-51.39	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.25	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.04	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.02	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.13	-20	Pass
NVNT	3-DH5	2441	Ant1	-50.06	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.21	-20	Pass

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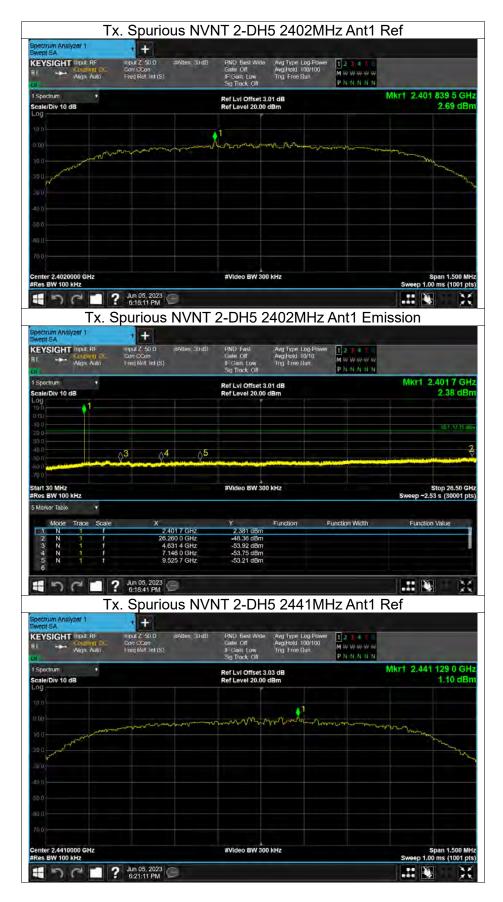




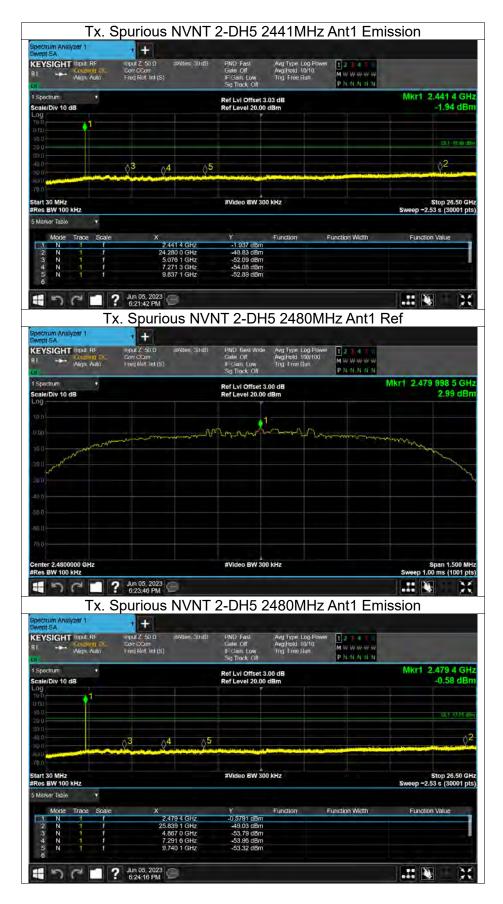




















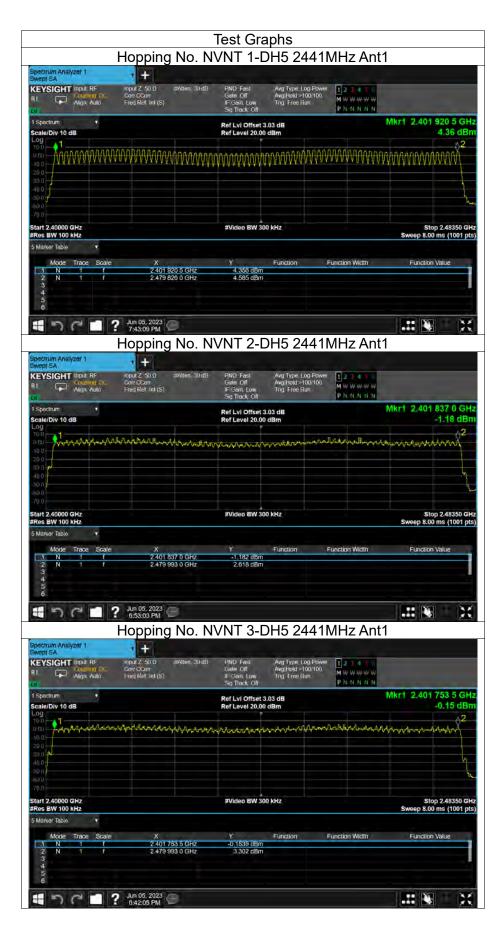


Number of Hopping Channel

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

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

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