

RF TEST REPORT

Product Name: PeriMonkey Tattoo Transfer Printer

Model Name: ALD-P910, P90, P91, P91s, P92, P93, ALD-P900, ALD-P920,

ALD-P930

FCC ID: 2ASPY-ALD-P910

Issued For : Xiamen Ilead Tek Co., Ltd.

Room 01, Unit 2101, No.50 Chengyi North Street, Software Park

Phase III, Xiamen, Fujian, 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: LGT25A044RF01

Sample Received Date: Jan. 10, 2025

Date of Test: Jan. 10, 2025 ~ Feb. 18, 2025

Date of Issue: Feb. 18, 2025

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



TEST REPORT CERTIFICATION

Applicant: Xiamen Ilead Tek Co., Ltd.

Room 01, Unit 2101, No.50 Chengyi North Street, Software Park Address:

Phase III, Xiamen, Fujian, China

Manufacturer: Xiamen Ilead Tek Co., Ltd.

Room 01, Unit 2101, No.50 Chengyi North Street, Software Park Address:

Phase III, Xiamen, Fujian, China

Product Name: PeriMonkey Tattoo Transfer Printer

Trademark: PeriPage / PeriMonkey

Model Name: ALD-P910, P90, P91, P91s, P92, P93, ALD-P900, ALD-P920,

ALD-P930

Sample Status: Normal

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
FCC Part 15.247, Subpart C ANSI C63.10-2013			
KDB558074 D01 15.247 Meas Guidance	PASS		
v05r02			

Prepared by:

Zane Shan

Zane Shan

Engineer

Approved by:

Vita Li

Technical Director



Table of Contents	Pag
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS	10
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING	12
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	12
2.6 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 RADIATED EMISSION MEASUREMENT	18
4. CONDUCTED SPURIOUS & BAND EDGE EMISSION	29
4.1 LIMIT	29
4.2 TEST PROCEDURE	29
4.3 TEST SETUP	30
4.4 EUT OPERATION CONDITIONS	30
4.5 TEST RESULTS	30
5. NUMBER OF HOPPING CHANNEL	31
5.1 LIMIT	31
5.2 TEST PROCEDURE	31
5.3 TEST SETUP	31
5.4 EUT OPERATION CONDITIONS	31
5.5 TEST RESULTS	31
6. AVERAGE TIME OF OCCUPANCY	32
6.1 LIMIT	32
6.2 TEST PROCEDURE	32
6.3 TEST SETUP	32
6.4 EUT OPERATION CONDITIONS	32
6.5 TEST RESULTS	32
7. HOPPING CHANNEL SEPARATION MEASUREMEN	33
7.1 LIMIT	33
7.2 TEST PROCEDURE	33

Report No.: LGT25A044RF01 Page 3 of 112



7.3 TEST SETUP	33
7.4 EUT OPERATION CONDITIONS	33
7.5 TEST RESULTS	33
8. BANDWIDTH TEST	34
8.1 LIMIT	34
8.2 TEST PROCEDURE	34
8.3 TEST SETUP	34
8.4 EUT OPERATION CONDITIONS	34
8.5 TEST RESULTS	34
9. OUTPUT POWER TEST	35
9.1 LIMIT	35
9.2 TEST PROCEDURE	35
9.3 TEST SETUP	35
9.4 EUT OPERATION CONDITIONS	35
9.5 TEST RESULTS	35
10. ANTENNA REQUIREMENT	36
10.1 STANDARD REQUIREMENT	36
10.2 EUT ANTENNA	36
APPENDIX I - TEST RESULTS	37
NUMBER OF HOPPING FREQUENCY	37
PEAK OUTPUT POWER	40
99% BANDWIDTH	41
20DB BANDWIDTH	50
HOPPING FREQUENCY SEPARATION	59
AVERAGE TIME OF OCCUPANCYC	68
CONDUCTED SPURIOUS EMISSIONS	71
BANDEDGE(L)CSE	89
BANDEDGE(H)CSE	93
BANDEDGE(HOPPING)CSE	97
DUTY CYCLE	103
APPENDIX II - MEASUREMENT PHOTOS	112

Report No.: LGT25A044RF01



Revision History

Rev.	Issue Date	Revisions
00	Feb. 18, 2025	Initial Issue

Report No.: LGT25A044RF01 Page 5 of 112



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.

Report No.: LGT25A044RF01 Page 6 of 112



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.

Report No.: LGT25A044RF01 Page 7 of 112



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	PeriMonkey Tattoo Transfer Printer
Trademark:	PeriPage / PeriMonkey
Model Name:	ALD-P910
Series Model:	P90, P91, P91s, P92, P93, ALD-P900, ALD-P920, ALD-P930
Model Difference:	Only sales channel differences.
Channel List:	Please refer to the Note 3.
Bluetooth:	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Antenna Designation:	PCB
Antenna Gain:	3.14dBi
Rating:	Input: DC 5V/2A
Hardware Version:	P91-V1
Software Version:	N/A
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.

Report No.: LGT25A044RF01 Page 8 of 112



3.

		Chani	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		

Report No.: LGT25A044RF01 Page 9 of 112



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.

(2) The Pseudorandom sequence may be generated in a nin-stage shift register whose 5th and 9th

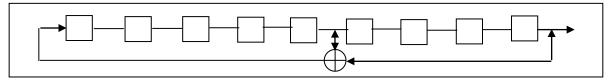
Report No.: LGT25A044RF01 Page 10 of 112



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.

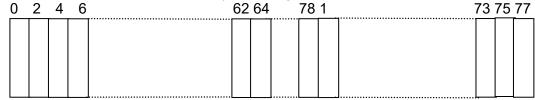
Numver of shift register stages:9

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.

Report No.: LGT25A044RF01 Page 11 of 112



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	
BR BlueletSuite_v6_0	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

Description	Manufacturer	Model	S/N	Rating
USB-A to USB-C Cable	N/A	N/A	N/A	1m
Tupe-C Adapter	N/A	N/A	N/A	N/A

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	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".

Report No.: LGT25A044RF01 Page 12 of 112



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	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	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 Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software		EMC-	_V1.4.0.3_SKET		

RF Conducted Test equip	RF Conducted Test equipment						
Equipment	Manufacturer	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		MTS83	310_V2.0.0.0_MW				

Report No.: LGT25A044RF01 Page 13 of 112



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.

FDFOLIENCY (MILI-)	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

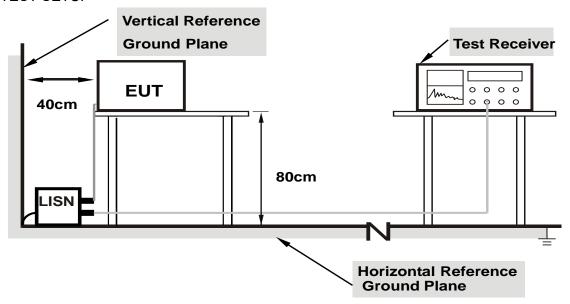
Report No.: LGT25A044RF01 Page 14 of 112



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

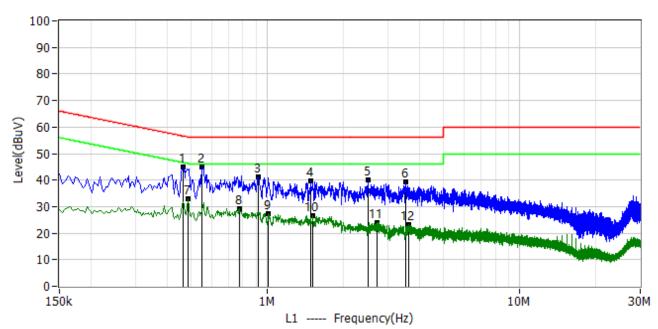
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Report No.: LGT25A044RF01 Page 15 of 112



3.1.5 TEST RESULT

Project: LGT25A044	Test Engineer: LiuH
EUT: PeriMonkey Tattoo Transfer Printer	Temperature: 23°C
M/N: ALD-P910	Humidity: 40%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-01-15
Test Mode: TX DH5 2402	
Note:	

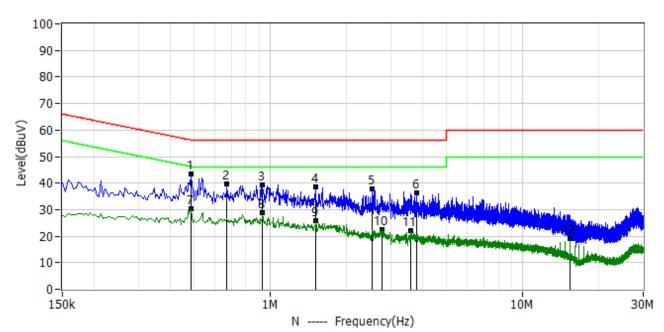


No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.462	34.53	10.57	45.10	56.66	-11.56	QP	L1
2*	0.550	34.48	10.57	45.05	56.00	-10.95	QP	L1
3*	0.922	30.44	10.66	41.10	56.00	-14.90	QP	L1
4*	1.490	28.75	10.84	39.59	56.00	-16.41	QP	L1
5*	2.510	28.94	11.09	40.03	56.00	-15.97	QP	L1
6*	3.530	28.06	11.16	39.22	56.00	-16.78	QP	L1
7*	0.486	22.31	10.57	32.88	46.24	-13.36	AV	L1
8*	0.774	18.74	10.60	29.34	46.00	-16.66	AV	L1
9*	1.010	16.56	10.69	27.25	46.00	-18.75	AV	L1
10*	1.510	15.91	10.84	26.75	46.00	-19.25	AV	L1
11*	2.722	12.92	11.14	24.06	46.00	-21.94	AV	L1
12*	3.638	11.97	11.16	23.13	46.00	-22.87	AV	L1

Report No.: LGT25A044RF01 Page 16 of 112



Project: LGT25A044	Test Engineer: LiuH
EUT: PeriMonkey Tattoo Transfer Printer	Temperature: 23°C
M/N: ALD-P910	Humidity: 40%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-01-15
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.486	32.97	10.55	43.52	56.24	-12.71	QP	N
2*	0.674	29.26	10.56	39.82	56.00	-16.18	QP	N
3*	0.930	28.88	10.55	39.43	56.00	-16.57	QP	N
4*	1.514	27.76	10.65	38.41	56.00	-17.59	QP	N
5*	2.538	27.11	10.77	37.88	56.00	-18.12	QP	N
6*	3.814	25.46	10.81	36.27	56.00	-19.73	QP	N
7*	0.486	19.61	10.55	30.16	46.24	-16.08	AV	N
8*	0.930	18.29	10.55	28.84	46.00	-17.16	AV	N
9*	1.510	15.08	10.65	25.73	46.00	-20.27	AV	N
10*	2.774	11.62	10.78	22.40	46.00	-23.60	AV	N
11*	3.610	11.33	10.80	22.13	46.00	-23.87	AV	N
12*	15.406	7.57	11.40	18.97	50.00	-31.03	AV	N



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)

	•			
FREQUENCY (MHz)	(dBuV/m) (at 3M)			
	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			

Report No.: LGT25A044RF01 Page 18 of 112



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)
DD ///D (aminains in rectnisted 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		
Ctant/Ctan Francisco	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2476 to 2500 MHz		
RB / VB	1 MHz / 3 MHz(Peak)		
KD / VD	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

Report No.: LGT25A044RF01 Page 19 of 112



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.

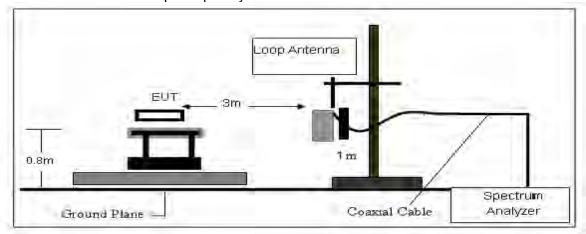
3.2.3 DEVIATION FROM TEST STANDARD No deviation.

Report No.: LGT25A044RF01 Page 20 of 112

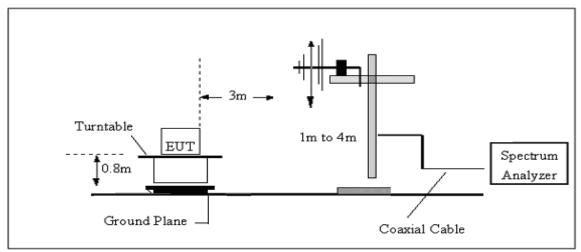


3.2.4 TESTSETUP

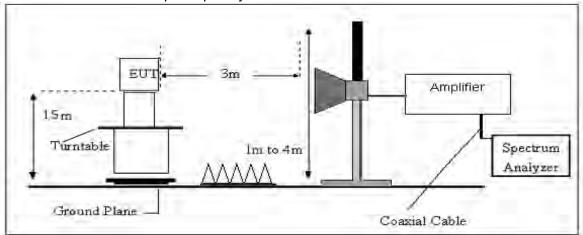
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

Report No.: LGT25A044RF01 Page 21 of 112



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

Report No.: LGT25A044RF01 Page 22 of 112



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);

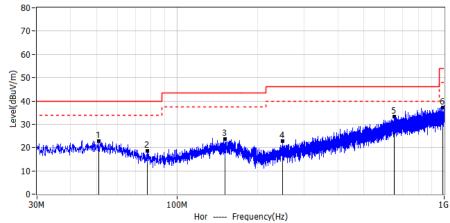
Limit line = specific limits (dBuV) + distance extrapolation factor.

Report No.: LGT25A044RF01 Page 23 of 112

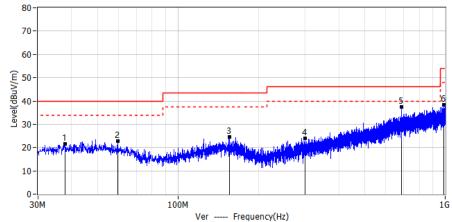


Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT25A044	Test Engineer: LiuH
EUT: PeriMonkey Tattoo Transfer Printer	Temperature: 23.8°C
M/N: ALD-P910	Humidity: 42.1%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-01-17
Test Mode: TX DH5 2402	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	51.098	2.25	20.64	22.89	40.00	-17.11	QP	Hor
2*	77.773	1.87	16.58	18.45	40.00	-21.55	QP	Hor
3*	151.614	2.24	21.32	23.56	43.50	-19.94	QP	Hor
4*	249.220	3.23	19.54	22.77	46.00	-23.23	QP	Hor
5*	651.528	3.81	29.57	33.38	46.00	-12.62	QP	Hor
6*	990.300	3.32	33.77	37.09	54.00	-16.91	QP	Hor



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	rulai
1*	37.760	1.67	19.79	21.46	40.00	-18.54	QP	Ver
2*	59.464	3.33	19.44	22.77	40.00	-17.23	QP	Ver
3*	155.615	2.92	21.56	24.48	43.50	-19.02	QP	Ver
4*	298.933	2.59	21.37	23.96	46.00	-22.04	QP	Ver
5*	687.539	7.35	30.09	37.44	46.00	-8.56	QP	Ver
6*	988.481	4.55	33.92	38.47	54.00	-15.53	QP	Ver

Report No.: LGT25A044RF01 Page 24 of 112



Results of Radiated Emissions (Above 1000MHz)

3264.80 46.13 -8.45 37.68 54.00 -16.32 AV Horizonta 4804.52 54.44 -6.09 48.35 74.00 -25.65 PK Vertical 4804.52 45.52 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 57.31 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Hor	Above 1000) MHz		Above 1000 MHz						
3264.67 55.92 -8.45 47.47 74.00 -26.53 PK Vertical 3264.67 46.06 -8.45 37.61 54.00 -16.39 AV Vertical 3264.80 56.36 -8.45 47.91 74.00 -26.09 PK Horizonta 3264.80 46.13 -8.45 37.68 54.00 -16.32 AV Horizonta 4804.52 54.44 -6.09 48.35 74.00 -25.66 PK Vertical 4804.35 54.95 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vert	, ,		Factor				Detector	Polarity		
3264.67 46.06 -8.45 37.61 54.00 -16.39 AV Vertical 3264.80 56.36 -8.45 47.91 74.00 -28.09 PK Horizonta 3264.80 46.13 -8.45 37.68 54.00 -16.32 AV Horizonta 4804.52 54.44 -6.09 48.35 74.00 -25.65 PK Vertical 4804.52 45.52 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.57 PK Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 52.71 74.00 -21.29 PK Hori				Low Channe	l (2402 MHz)					
3264.80 56.36 -8.45 47.91 74.00 -26.09 PK Horizonta 3264.80 46.13 -8.45 37.68 54.00 -16.32 AV Horizonta 4804.52 54.44 -6.09 48.35 74.00 -25.65 PK Vertical 4804.35 54.95 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.62 47.14 -6.68 40.46 54.00 -13.54 AV Vertical 5359.72 57.31 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 59.81 -8.13 52.71 74.00 -21.29 PK Hori	3264.67	55.92	-8.45	47.47	74.00	-26.53	PK	Vertical		
3264.80 46.13 -8.45 37.68 54.00 -16.32 AV Horizonta 4804.52 54.44 -6.09 48.35 74.00 -25.65 PK Vertical 4804.52 45.52 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 57.31 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Hor	3264.67	46.06	-8.45	37.61	54.00	-16.39	AV	Vertical		
4804.52 54.44 -6.09 48.35 74.00 -25.65 PK Vertical 4804.52 45.52 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 57.31 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Hori	3264.80	56.36	-8.45	47.91	74.00	-26.09	PK	Horizontal		
4804.52 45.52 -6.09 39.43 54.00 -14.57 AV Vertical 4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.62 47.14 -6.68 40.46 54.00 -13.54 AV Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta 7205.83 55.11 -8.45 46.66 74.00 -27.34 PK Ver	3264.80	46.13	-8.45	37.68	54.00	-16.32	AV	Horizontal		
4804.35 54.95 -6.09 48.86 74.00 -25.14 PK Horizonta 4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta 3264.85 55.11 -8.45 46.66 74.00 -27.35 PK Ve	4804.52	54.44	-6.09	48.35	74.00	-25.65	PK	Vertical		
4804.35 45.14 -6.09 39.05 54.00 -14.95 AV Horizonta 5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.62 47.14 -6.68 40.46 54.00 -13.54 AV Vertical 5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta 7205.83 50.94 -8.45 46.66 74.00 -27.34 PK Ver	4804.52	45.52	-6.09	39.43	54.00	-14.57	AV	Vertical		
5359.62 57.16 -6.68 50.48 74.00 -23.52 PK Vertical 5359.62 47.14 -6.68 40.46 54.00 -13.54 AV Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 <t< td=""><td>4804.35</td><td>54.95</td><td>-6.09</td><td>48.86</td><td>74.00</td><td>-25.14</td><td>PK</td><td>Horizontal</td></t<>	4804.35	54.95	-6.09	48.86	74.00	-25.14	PK	Horizontal		
5359.62 47.14 -6.68 40.46 54.00 -13.54 AV Vertical 5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45	4804.35	45.14	-6.09	39.05	54.00	-14.95	AV	Horizontal		
5359.72 57.31 -6.68 50.63 74.00 -23.37 PK Horizonta 5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.76 55.10 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Ver	5359.62	57.16	-6.68	50.48	74.00	-23.52	PK	Vertical		
5359.72 46.98 -6.68 40.30 54.00 -13.70 AV Horizonta 7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 55.48 -6.09 49.39 <	5359.62	47.14	-6.68	40.46	54.00	-13.54	AV	Vertical		
7205.76 59.87 -8.13 51.74 74.00 -22.26 PK Vertical 7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 5359.67 57.66 -6.68 50.98 <	5359.72	57.31	-6.68	50.63	74.00	-23.37	PK	Horizontal		
7205.76 50.81 -8.13 42.68 54.00 -11.32 AV Vertical 7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 5359.67 57.66 -6.68 50.98	5359.72	46.98	-6.68	40.30	54.00	-13.70	AV	Horizontal		
7205.83 60.84 -8.13 52.71 74.00 -21.29 PK Horizonta 7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98	7205.76	59.87	-8.13	51.74	74.00	-22.26	PK	Vertical		
7205.83 50.94 -8.13 42.81 54.00 -11.19 AV Horizonta Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.84 47.12 -6.68 49.93 <	7205.76	50.81	-8.13	42.68	54.00	-11.32	AV	Vertical		
Middle Channel (2441 MHz) 3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44	7205.83	60.84	-8.13	52.71	74.00	-21.29	PK	Horizontal		
3264.85 55.11 -8.45 46.66 74.00 -27.34 PK Vertical 3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Hor	7205.83	50.94	-8.13	42.81	54.00	-11.19	AV	Horizontal		
3264.85 45.23 -8.45 36.78 54.00 -17.22 AV Vertical 3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.60 55.48 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 49.52 -8.13 52.14 74.00 -21.86 PK Ver				Middle Chann	el (2441 MHz))				
3264.76 55.10 -8.45 46.65 74.00 -27.35 PK Horizonta 3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.31 44.27 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Ve	3264.85	55.11	-8.45	46.66	74.00	-27.34	PK	Vertical		
3264.76 46.39 -8.45 37.94 54.00 -16.06 AV Horizonta 4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.31 44.27 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Hori	3264.85	45.23	-8.45	36.78	54.00	-17.22	AV	Vertical		
4882.31 54.27 -6.09 48.18 74.00 -25.82 PK Vertical 4882.31 44.27 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.87 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Hori	3264.76	55.10	-8.45	46.65	74.00	-27.35	PK	Horizontal		
4882.31 44.27 -6.09 38.18 54.00 -15.82 AV Vertical 4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	3264.76	46.39	-8.45	37.94	54.00	-16.06	AV	Horizontal		
4882.60 55.48 -6.09 49.39 74.00 -24.61 PK Horizonta 4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	4882.31	54.27	-6.09	48.18	74.00	-25.82	PK	Vertical		
4882.60 45.07 -6.09 38.98 54.00 -15.02 AV Horizonta 5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	4882.31	44.27	-6.09	38.18	54.00	-15.82	AV	Vertical		
5359.67 57.66 -6.68 50.98 74.00 -23.02 PK Vertical 5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	4882.60	55.48	-6.09	49.39	74.00	-24.61	PK	Horizontal		
5359.67 48.04 -6.68 41.36 54.00 -12.64 AV Vertical 5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	4882.60	45.07	-6.09	38.98	54.00	-15.02	AV	Horizontal		
5359.84 56.61 -6.68 49.93 74.00 -24.07 PK Horizonta 5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	5359.67	57.66	-6.68	50.98	74.00	-23.02	PK	Vertical		
5359.84 47.12 -6.68 40.44 54.00 -13.56 AV Horizonta 7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	5359.67	48.04	-6.68	41.36	54.00	-12.64	AV	Vertical		
7313.73 60.27 -8.13 52.14 74.00 -21.86 PK Vertical 7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	5359.84	56.61	-6.68	49.93	74.00	-24.07	PK	Horizontal		
7313.73 49.52 -8.13 41.39 54.00 -12.61 AV Vertical 7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	5359.84	47.12	-6.68	40.44	54.00	-13.56	AV	Horizontal		
7313.95 60.91 -8.13 52.78 74.00 -21.22 PK Horizonta	7313.73	60.27	-8.13	52.14	74.00	-21.86	PK	Vertical		
	7313.73	49.52	-8.13	41.39	54.00	-12.61	AV	Vertical		
7313.95 49.89 -8.13 41.76 54.00 -12.24 AV Horizonta	7313.95	60.91	-8.13	52.78	74.00	-21.22	PK	Horizontal		
	7313.95	49.89	-8.13	41.76	54.00	-12.24	AV	Horizontal		

Report No.: LGT25A044RF01 Page 25 of 112



	High Channel (2480 MHz)							
3264.76	56.27	-8.45	47.82	74.00	-26.18	PK	Vertical	
3264.76	45.34	-8.45	36.89	54.00	-17.11	AV	Vertical	
3264.75	55.84	-8.45	47.39	74.00	-26.61	PK	Horizontal	
3264.75	46.25	-8.45	37.80	54.00	-16.20	AV	Horizontal	
4960.56	54.21	-6.09	48.12	74.00	-25.88	PK	Vertical	
4960.56	44.30	-6.09	38.21	54.00	-15.79	AV	Vertical	
4960.40	54.04	-6.09	47.95	74.00	-26.05	PK	Horizontal	
4960.40	44.40	-6.09	38.31	54.00	-15.69	AV	Horizontal	
5359.82	56.81	-6.68	50.13	74.00	-23.87	PK	Vertical	
5359.82	47.85	-6.68	41.17	54.00	-12.83	AV	Vertical	
5359.78	57.02	-6.68	50.34	74.00	-23.66	PK	Horizontal	
5359.78	47.75	-6.68	41.07	54.00	-12.93	AV	Horizontal	
7439.88	60.65	-8.13	52.52	74.00	-21.48	PK	Vertical	
7439.88	50.73	-8.13	42.60	54.00	-11.40	AV	Vertical	
7439.86	59.64	-8.13	51.51	74.00	-22.49	PK	Horizontal	
7439.86	50.22	-8.13	42.09	54.00	-11.91	AV	Horizontal	

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.

Report No.: LGT25A044RF01 Page 26 of 112



3.2.8 TEST RESULTS (BAND EDGE REQUIREMENTS)

Frequency (MHz)	Reading (dBµV)	Corrected Factor (dB)	Result (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector	Polarity
		,	GF	SK			
2390.00	12.91	34.10	47.01	74.00	-26.99	PK	Vertical
2390.00	2.11	34.10	36.21	54.00	-17.79	AV	Vertical
2400.00	12.69	34.11	46.80	74.00	-27.20	PK	Vertical
2400.00	2.78	34.11	36.89	54.00	-17.11	AV	Vertical
2390.00	13.41	34.10	47.51	74.00	-26.49	PK	Horizontal
2390.00	2.17	34.10	36.27	54.00	-17.73	AV	Horizontal
2400.00	13.88	34.11	47.99	74.00	-26.01	PK	Horizontal
2400.00	2.45	34.11	36.56	54.00	-17.44	AV	Horizontal
2483.50	14.19	34.44	48.63	74.00	-25.37	PK	Vertical
2483.50	2.06	34.44	36.50	54.00	-17.50	AV	Vertical
2500.00	15.10	34.46	49.56	74.00	-24.44	PK	Vertical
2500.00	3.15	34.46	37.61	54.00	-16.39	AV	Vertical
2483.50	15.04	34.44	49.48	74.00	-24.52	PK	Horizontal
2483.50	1.86	34.44	36.30	54.00	-17.70	AV	Horizontal
2500.00	14.76	34.46	49.22	74.00	-24.78	PK	Horizontal
2500.00	2.62	34.46	37.08	54.00	-16.92	AV	Horizontal
			π/4-D	QPSK			
2390.00	13.43	34.10	47.53	74.00	-26.47	PK	Vertical
2390.00	2.00	34.10	36.10	54.00	-17.90	AV	Vertical
2400.00	12.94	34.11	47.05	74.00	-26.95	PK	Vertical
2400.00	1.26	34.11	35.37	54.00	-18.63	AV	Vertical
2390.00	13.78	34.10	47.88	74.00	-26.12	PK	Horizontal
2390.00	1.72	34.10	35.82	54.00	-18.18	AV	Horizontal
2400.00	12.69	34.11	46.80	74.00	-27.20	PK	Horizontal
2400.00	2.73	34.11	36.84	54.00	-17.16	AV	Horizontal
2483.50	13.96	34.44	48.40	74.00	-25.60	PK	Vertical
2483.50	2.61	34.44	37.05	54.00	-16.95	AV	Vertical
2500.00	15.68	34.46	50.14	74.00	-23.86	PK	Vertical
2500.00	2.67	34.46	37.13	54.00	-16.87	AV	Vertical
2483.50	14.25	34.44	48.69	74.00	-25.31	PK	Horizontal
2483.50	2.18	34.44	36.62	54.00	-17.38	AV	Horizontal
2500.00	14.72	34.46	49.18	74.00	-24.82	PK	Horizontal
2500.00	2.86	34.46	37.32	54.00	-16.68	AV	Horizontal

Report No.: LGT25A044RF01 Page 27 of 112



			8DF	PSK			
2390.00	12.48	34.10	46.58	74.00	-27.42	PK	Vertical
2390.00	0.74	34.10	34.84	54.00	-19.16	AV	Vertical
2400.00	13.27	34.11	47.38	74.00	-26.62	PK	Vertical
2400.00	1.81	34.11	35.92	54.00	-18.08	AV	Vertical
2390.00	12.51	34.10	46.61	74.00	-27.39	PK	Horizontal
2390.00	1.66	34.10	35.76	54.00	-18.24	AV	Horizontal
2400.00	12.76	34.11	46.87	74.00	-27.13	PK	Horizontal
2400.00	2.52	34.11	36.63	54.00	-17.37	AV	Horizontal
2483.50	15.11	34.44	49.55	74.00	-24.45	PK	Vertical
2483.50	2.08	34.44	36.52	54.00	-17.48	AV	Vertical
2500.00	15.71	34.46	50.17	74.00	-23.83	PK	Vertical
2500.00	2.72	34.46	37.18	54.00	-16.82	AV	Vertical
2483.50	14.78	34.44	49.22	74.00	-24.78	PK	Horizontal
2483.50	2.12	34.44	36.56	54.00	-17.44	AV	Horizontal
2500.00	14.96	34.46	49.42	74.00	-24.58	PK	Horizontal
2500.00	2.95	34.46	37.41	54.00	-16.59	AV	Horizontal

Low measurement frequencies is range from 2310 to 2404 MHz, high measurement frequencies is range from 2478 to 2500 MHz.

Report No.: LGT25A044RF01 Page 28 of 112



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	

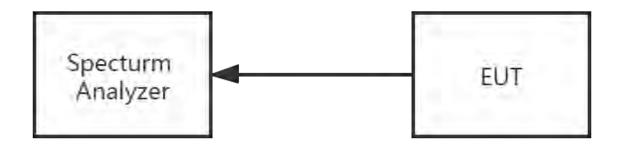
For Hopping Band edge

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

Report No.: LGT25A044RF01 Page 29 of 112



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.

Note: Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.

Report No.: LGT25A044RF01 Page 30 of 112



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.

Report No.: LGT25A044RF01 Page 31 of 112



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.
- 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 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

For the measurement records, refer to the appendix I.

Report No.: LGT25A044RF01 Page 32 of 112



7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

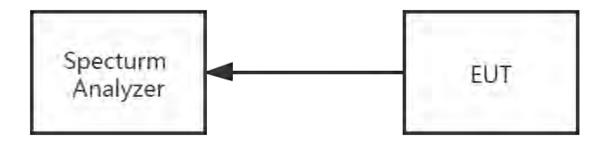
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that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

For the measurement records, refer to the appendix I.

Report No.: LGT25A044RF01 Page 33 of 112



8. BANDWIDTH TEST

8.1 LIMIT

FCC Part15 15.247, Subpart C						
Section	Test Item	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

For the measurement records, refer to the appendix I.

Report No.: LGT25A044RF01 Page 34 of 112



9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247, Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W			
		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:

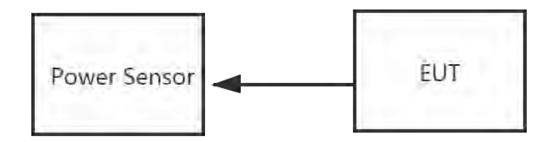
- a) Use the following spectrum analyzer settings:
- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW ≥ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace 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.

Report No.: LGT25A044RF01 Page 35 of 112



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 PCB Antenna. It comply with the standard requirement.

Report No.: LGT25A044RF01 Page 36 of 112



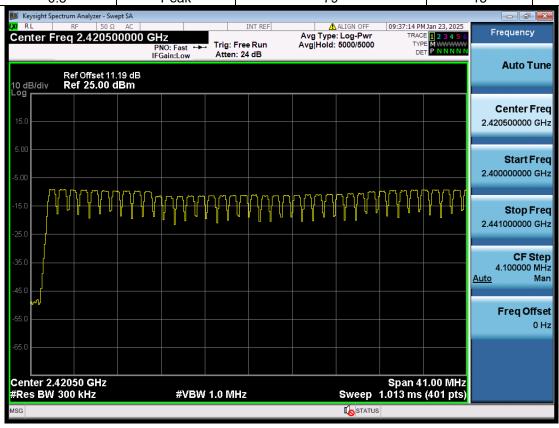
APPENDIX I - TEST RESULTS

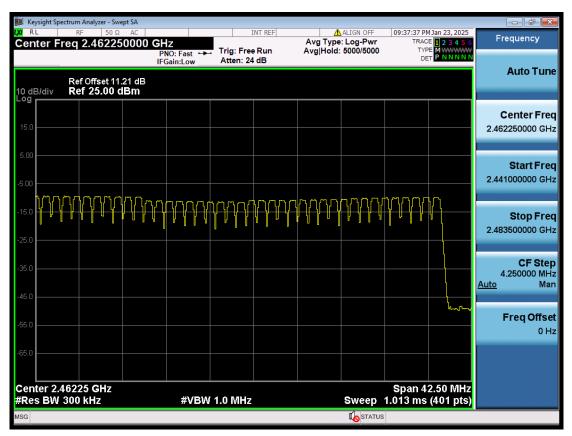
NUMBER OF HOPPING FREQUENCY

1. Bluetooth For Classic_Hopping

1.1 NUMBER OF HOPPING FREQUENCY (TEST MODE:DH5) (NTNV)

RBW (MHz)	Detector	Num of Hopping Freq	Limit (dB)	Verdict
0.3	Peak	79	15	PASS





Report No.: LGT25A044RF01 Page 37 of 112



1.2 NUMBER OF HOPPING FREQUENCY (TEST MODE:2DH5) (NTNV)

RBW (MHz)	Detector	Num of Hopping Freq	Limit (dB)	Verdict
0.3	Peak	79	15	PASS





Report No.: LGT25A044RF01 Page 38 of 112



1.3 NUMBER OF HOPPING FREQUENCY (TEST MODE:3DH5) (NTNV)

RBW (MHz)	Detector	Num of Hopping Freq	Limit (dB)	Verdict
0.3	Peak	79	15	PASS





Report No.: LGT25A044RF01 Page 39 of 112



PEAK OUTPUT POWER

1. Bluetooth For Classic

1.1 PEAK OUTPUT POWER (TEST MODE:DH5) (NTNV)

EUT Frequency(MHz)	Mode	Detector	Level(dBm)	Limit(dBm)	Verdict
2402	GFSK	Peak	-9.16	21	Pass
2441	GFSK	Peak	-9.29	21	Pass
2480	GFSK	Peak	-9.71	21	Pass

1.2 PEAK OUTPUT POWER (TEST MODE:2DH5) (NTNV)

EUT		Detector (Limeit/alDms)	Vardiet
Frequency(MHz)	Mode	Detector	Level(dBm)	Limit(dBm)	Verdict
2402	GFSK	Peak	-8.83	21	Pass
2441	GFSK	Peak	-8.45	21	Pass
2480	GFSK	Peak	-9.23	21	Pass

1.3 PEAK OUTPUT POWER (TEST MODE:3DH5) (NTNV)

EUT Frequency(MHz)	Mode	Detector	Level(dBm)	Limit(dBm)	Verdict
2402	GFSK	Peak	-8.61	21	Pass
2441	GFSK	Peak	-8.25	21	Pass
2480	GFSK	Peak	-9.01	21	Pass

Report No.: LGT25A044RF01 Page 40 of 112

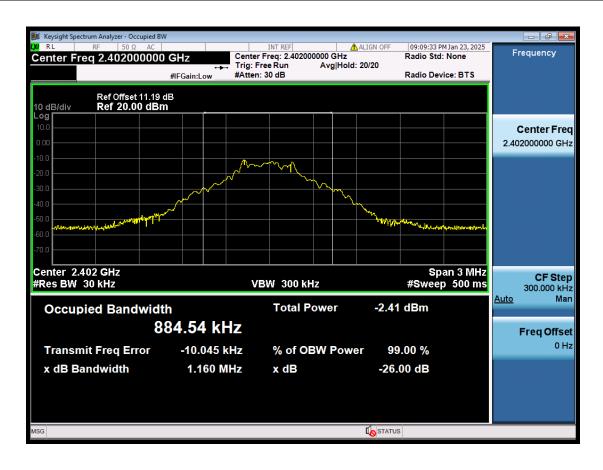


99% BANDWIDTH

1. Bluetooth For Classic

1.1 99% BANDWIDTH (TEST MODE:DH5) (NTNV)

Cent	er Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
	2402	99	0.03	Peak	0.884536	Pass

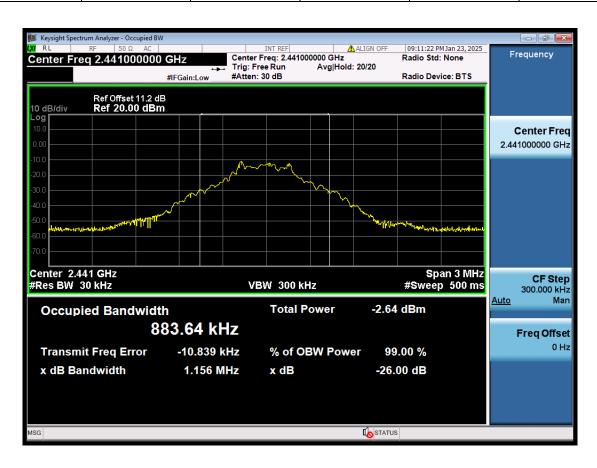


Report No.: LGT25A044RF01 Page 41 of 112



1.2 99% BANDWIDTH (TEST MODE:DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2441	99	0.03	Peak	0.883635	Pass

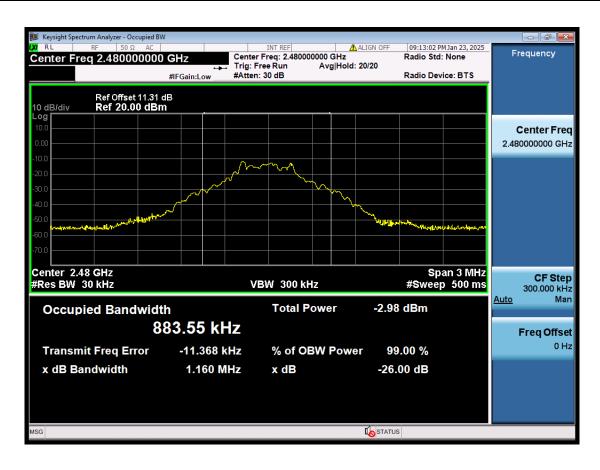


Report No.: LGT25A044RF01 Page 42 of 112



1.3 99% BANDWIDTH (TEST MODE:DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2480	99	0.03	Peak	0.883547	Pass

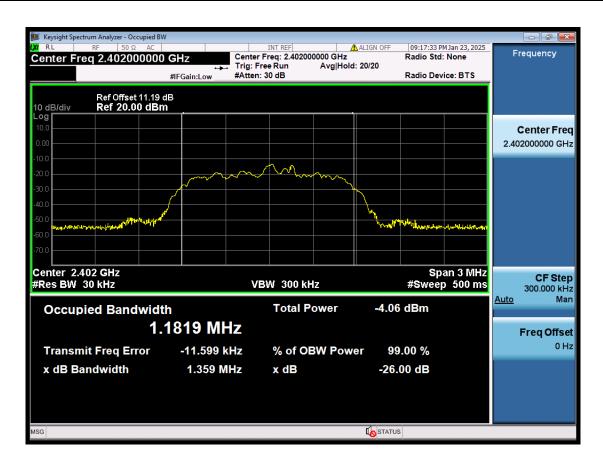


Report No.: LGT25A044RF01 Page 43 of 112



1.4 99% BANDWIDTH (TEST MODE:2DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2402	99	0.03	Peak	1.181871	Pass

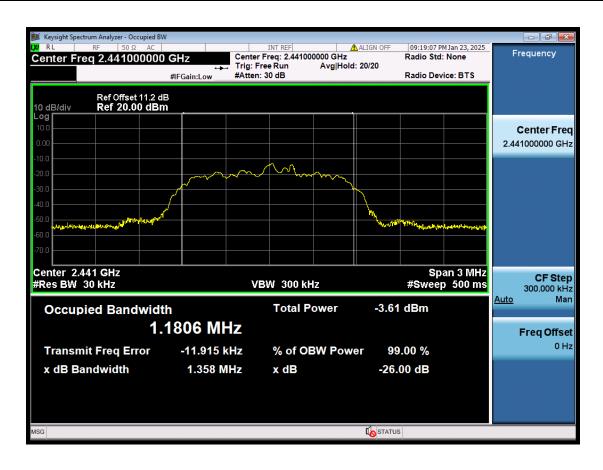


Report No.: LGT25A044RF01 Page 44 of 112



1.5 99% BANDWIDTH (TEST MODE:2DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2441	99	0.03	Peak	1.180634	Pass



Report No.: LGT25A044RF01 Page 45 of 112



1.6 99% BANDWIDTH (TEST MODE:2DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2480	99	0.03	Peak	1.183311	Pass



Report No.: LGT25A044RF01 Page 46 of 112



1.7 99% BANDWIDTH (TEST MODE:3DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2402	99	0.03	Peak	1.183168	Pass

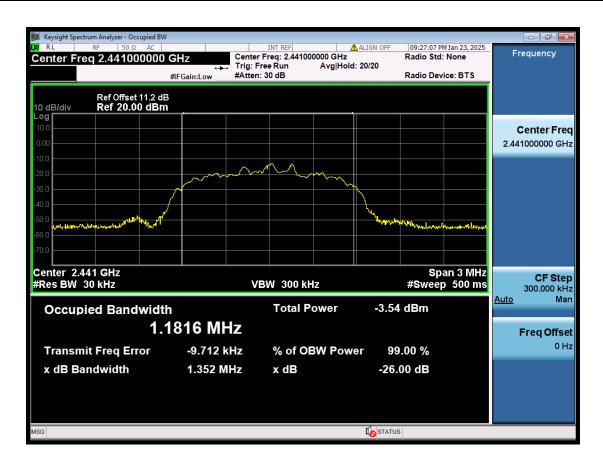


Report No.: LGT25A044RF01 Page 47 of 112



1.8 99% BANDWIDTH (TEST MODE:3DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2441	99	0.03	Peak	1.18156	Pass

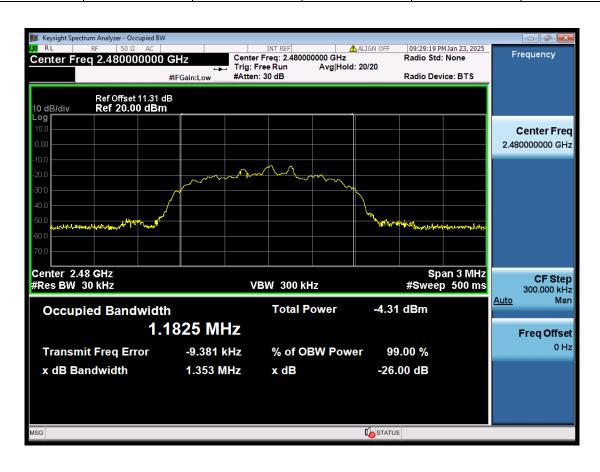


Report No.: LGT25A044RF01 Page 48 of 112



1.9 99% BANDWIDTH (TEST MODE:3DH5) (NTNV)

Center Frequency (MHz)	OBW Power (%)	RBW (MHz)	Detector	OBW (MHz)	Verdict
2480	99	0.03	Peak	1.1825	Pass



Report No.: LGT25A044RF01 Page 49 of 112

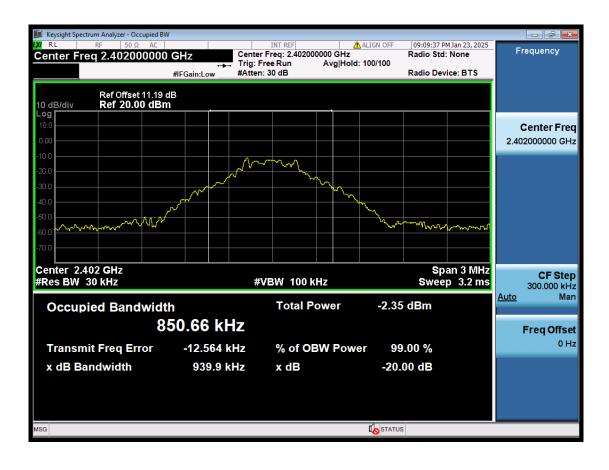


20DB BANDWIDTH

1. Bluetooth For Classic

1.1 20DB BANDWIDTH(TEST FREQ:2402MHZ, TEST MODE:DH5)(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2402	20	0.03	Peak	0.939911	Pass

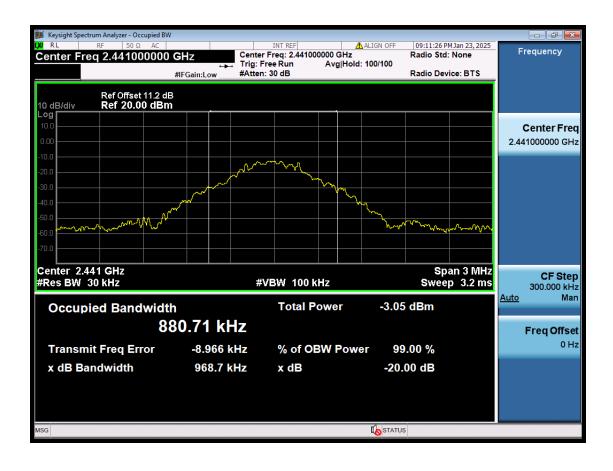


Report No.: LGT25A044RF01 Page 50 of 112



1.2 20DB BANDWIDTH(TEST FREQ:2441MHZ, TEST MODE:DH5)(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2441	20	0.03	Peak	0.968654	Pass

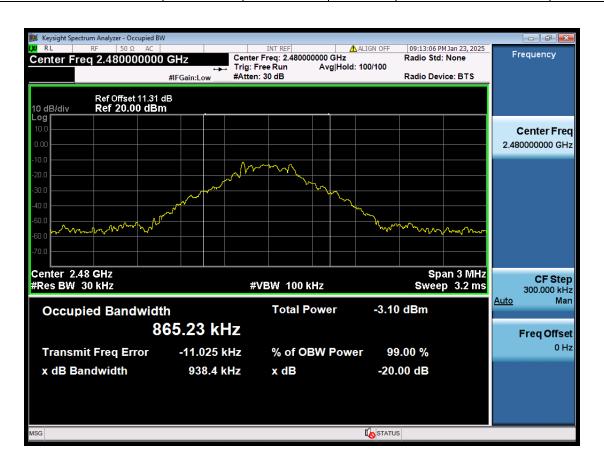


Report No.: LGT25A044RF01 Page 51 of 112



1.3 20DB BANDWIDTH(TEST FREQ:2480MHZ, TEST MODE:DH5)(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2480	20	0.03	Peak	0.938447	Pass



Report No.: LGT25A044RF01 Page 52 of 112



1.4 20DB BANDWIDTH(TEST FREQ:2402MHZ, TEST MODE:2DH5)(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2402	20	0.03	Peak	1.31689	Pass

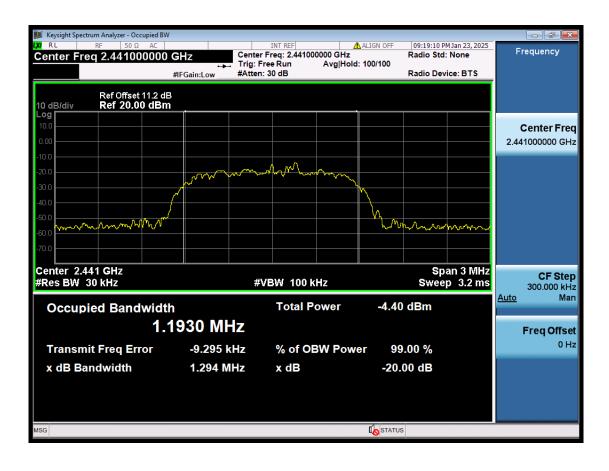


Report No.: LGT25A044RF01 Page 53 of 112



1.5 20DB BANDWIDTH(TEST FREQ:2441MHZ, TEST MODE:2DH5)(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2441	20	0.03	Peak	1.29418	Pass

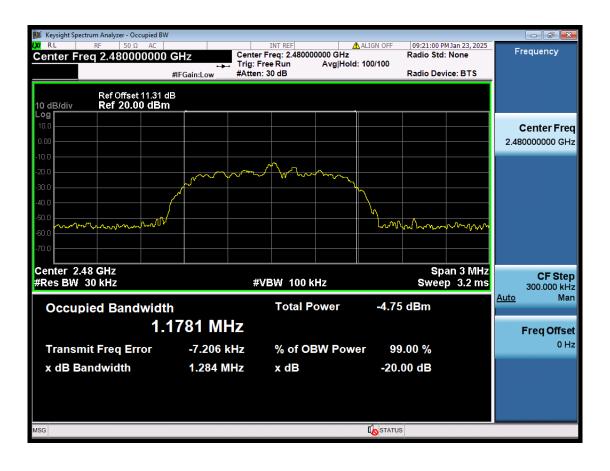


Report No.: LGT25A044RF01 Page 54 of 112



1.6 20DB BANDWIDTH(TEST FREQ:2480MHZ, TEST MODE:2DH5)(NTNV)

Center Frequency (MHz) XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2480	20	0.03	Peak	1.28352	Pass

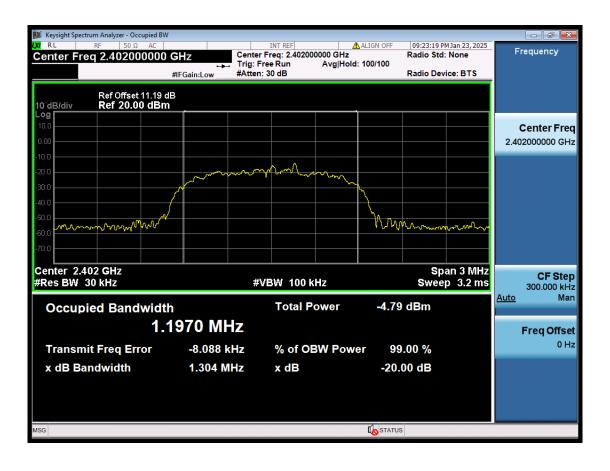


Report No.: LGT25A044RF01 Page 55 of 112



1.7 20DB BANDWIDTH(TEST FREQ:2402MHZ, TEST MODE:3DH5)(NTNV)

Center Frequency (MHz	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2402	20	0.03	Peak	1.304383	Pass

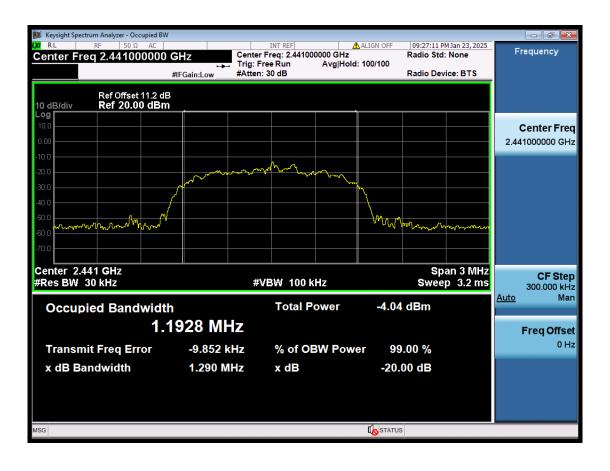


Report No.: LGT25A044RF01 Page 56 of 112



1.8 20DB BANDWIDTH(TEST FREQ:2441MHZ, TEST MODE:3DH5)(NTNV)

Center Frequency (MHz	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2441	20	0.03	Peak	1.289564	Pass

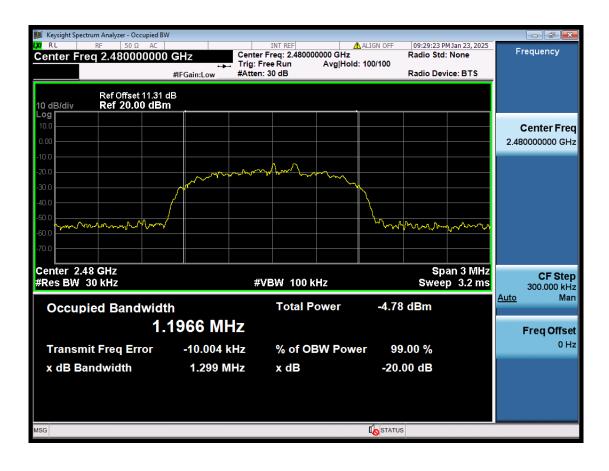


Report No.: LGT25A044RF01 Page 57 of 112



1.9 20DB BANDWIDTH(TEST FREQ:2480MHZ, TEST MODE:3DH5)(NTNV)

Center Frequency (MHz	XdB Down	RBW (MHz)	Detector	XdB BandWidth (MHz)	Verdict
2480	20	0.03	Peak	1.299005	Pass



Report No.: LGT25A044RF01 Page 58 of 112

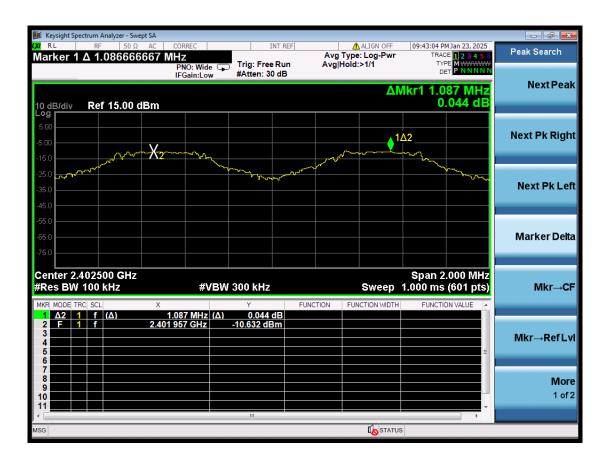


HOPPING FREQUENCY SEPARATION

1. Bluetooth For Classic_Hopping

1.1 HOPPING FREQUENCY SEPARATION - L(TEST FREQ:2402MHZ, TEST MODE:DH5)(NTNV)

	,	/\
HFS (MHz)	Limit (MHz)	Verdict
1.087	0.6266	Pass

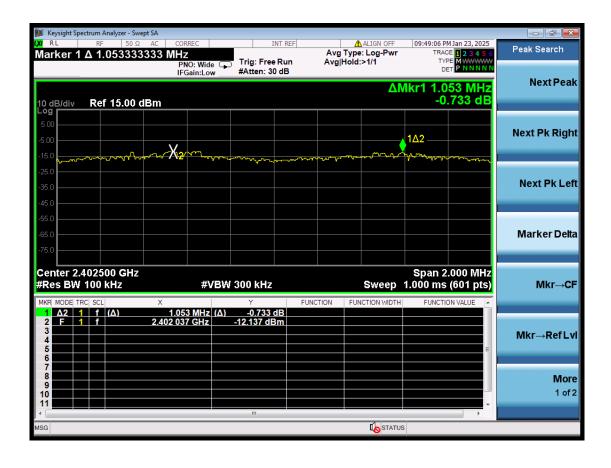


Report No.: LGT25A044RF01 Page 59 of 112



1.2 HOPPING FREQUENCY SEPARATION - L(TEST FREQ:2402MHZ, TEST MODE:2DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict	
1.053	0.8780	Pass	

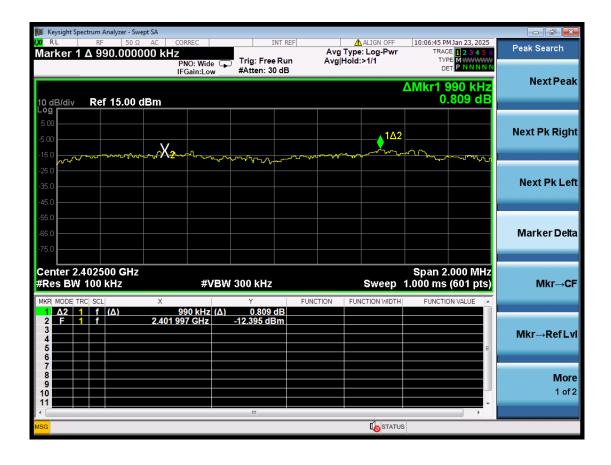


Report No.: LGT25A044RF01 Page 60 of 112



1.3 HOPPING FREQUENCY SEPARATION - L(TEST FREQ:2402MHZ, TEST MODE:3DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict	
0.990	0.8693	Pass	



Report No.: LGT25A044RF01 Page 61 of 112

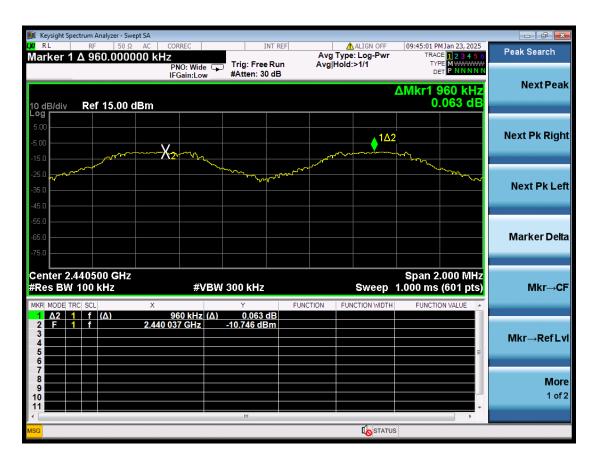


1. Bluetooth For Classic_Hopping

1.1 HOPPING FREQUENCY SEPARATION - M(TEST FREQ:2441MHZ, TEST

MODE:DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict
0.960	0.6458	Pass

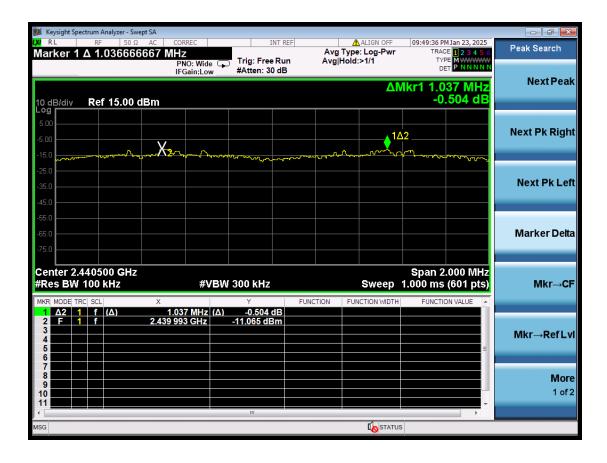


Report No.: LGT25A044RF01 Page 62 of 112



(TEST FREQ:2441MHZ, TEST MODE:2DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict
1.037	0.8627	Pass

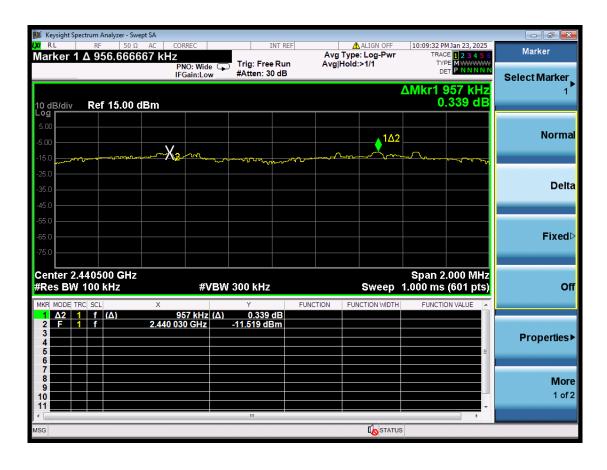


Report No.: LGT25A044RF01 Page 63 of 112



1.3 HOPPING FREQUENCY SEPARATION - M(TEST FREQ:2441MHZ, TEST MODE:3DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict	
0.957	0.8597	Pass	



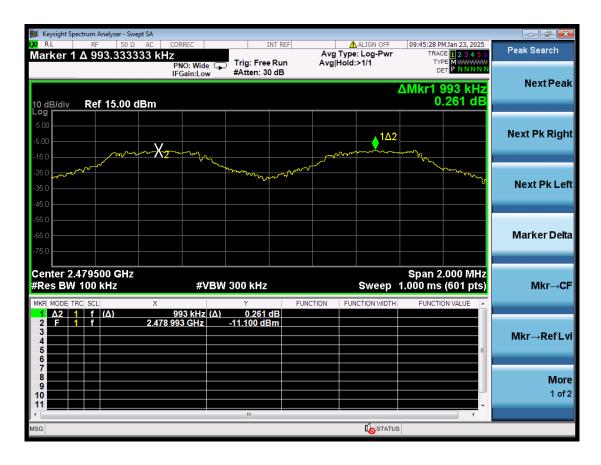
Report No.: LGT25A044RF01 Page 64 of 112



1. Bluetooth For Classic_Hopping

1.1 HOPPING FREQUENCY SEPARATION - H(TEST FREQ:2480MHZ, TEST MODE:DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict	
0.993	0.6256	Pass	

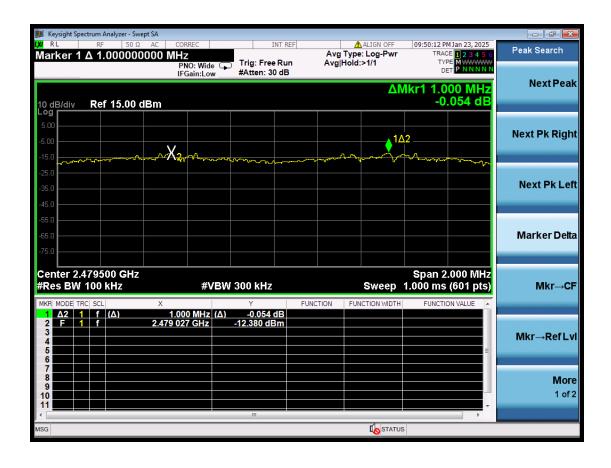


Report No.: LGT25A044RF01 Page 65 of 112



1.2 HOPPING FREQUENCY SEPARATION - H(TEST FREQ:2480MHZ, TEST MODE:2DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict	
1	0.8560	Pass	

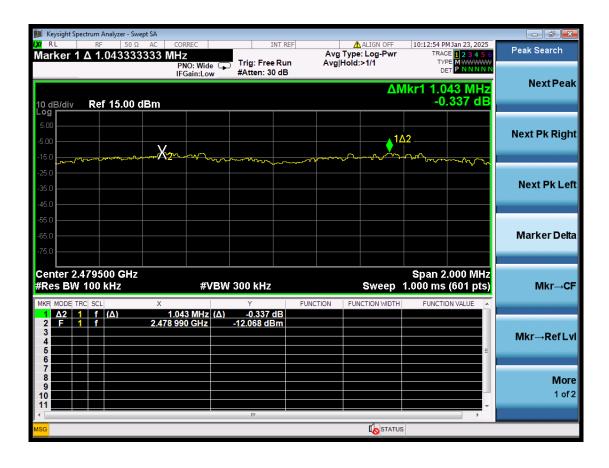


Report No.: LGT25A044RF01 Page 66 of 112



1.3 HOPPING FREQUENCY SEPARATION - H(TEST FREQ:2480MHZ, TEST MODE:3DH5)(NTNV)

HFS (MHz)	Limit (MHz)	Verdict
1.043	0.8660	Pass



Report No.: LGT25A044RF01 Page 67 of 112

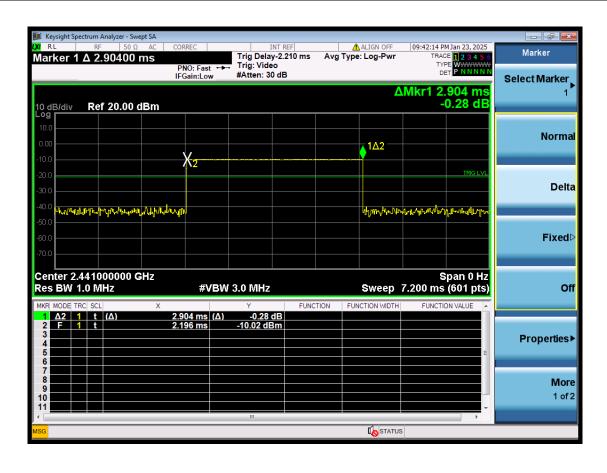


AVERAGE TIME OF OCCUPANCYC

1. Bluetooth For Classic_Hopping

1.1 AVERAGE TIME OF OCCUPANCYC-LGT(TEST FREQ:2441MHZ, TEST MODE:DH5)(NTNV)

Pulse Time (ms)	Dwell Time (ms)		Limit (ms)	Verdict
2.904	310)	400	Pass

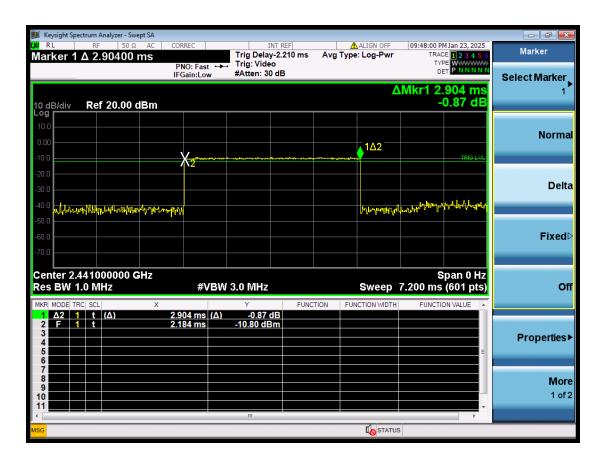


Report No.: LGT25A044RF01 Page 68 of 112



1.2 AVERAGE TIME OF OCCUPANCYC-LGT(TEST FREQ:2441MHZ, TEST MODE:2DH5)(NTNV)

Pulse Time (ms)	Dwell Time (ms)	Limit (ms)	Verdict
2.904	310	400	Pass

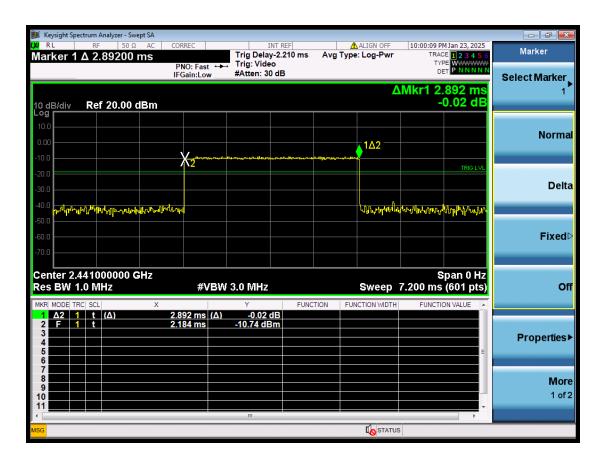


Report No.: LGT25A044RF01 Page 69 of 112



1.3 AVERAGE TIME OF OCCUPANCYC-LGT(TEST FREQ:2441MHZ, TEST MODE:3DH5)(NTNV)

Pulse Time (ms)	Dwell Time (ms)		Limit (ms)	Verdict
2.892	308		400	Pass



Report No.: LGT25A044RF01 Page 70 of 112

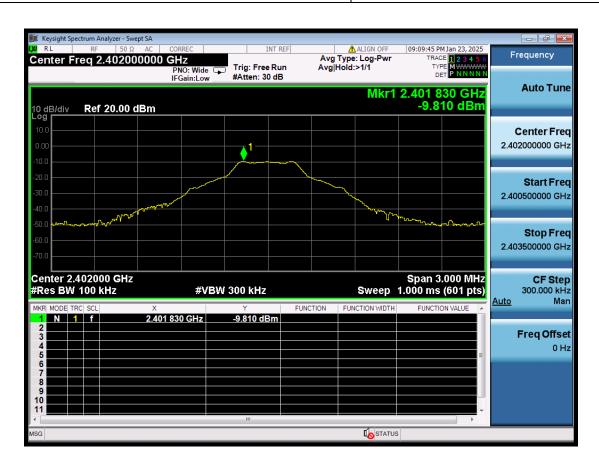


CONDUCTED SPURIOUS EMISSIONS

1. Bluetooth For Classic

1.1 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:DH5) (NTNV)

m consocies of chicos emicorons (1201 moseismo) (mm)	
Frequency(MHz)	Level(dBm)
2950	-47.252
21634	-36.364



Report No.: LGT25A044RF01 Page 71 of 112





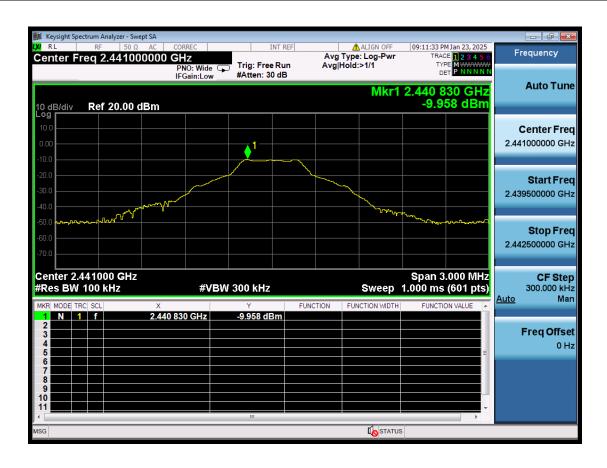


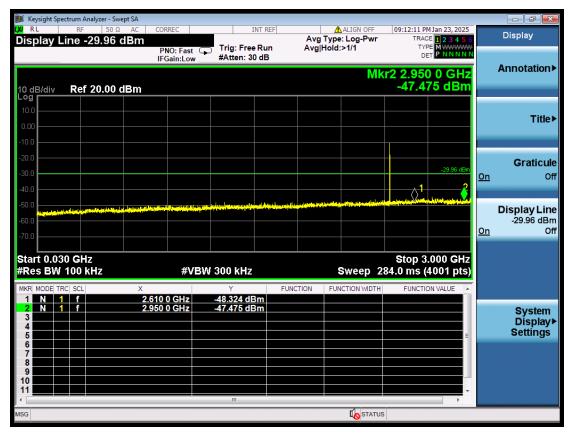
Report No.: LGT25A044RF01 Page 72 of 112



1.2 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:DH5) (NTNV)

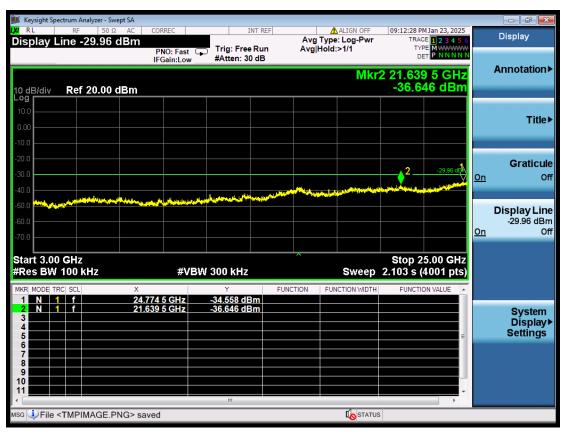
Frequency(MHz)	Level(dBm)
2950	-47.475
21639.5	-36.646





Report No.: LGT25A044RF01 Page 73 of 112

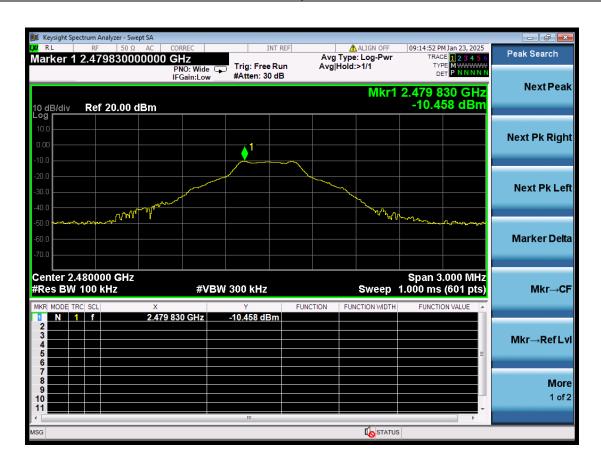


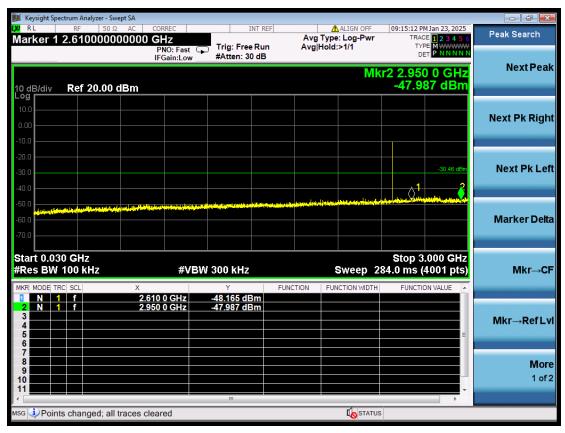




1.3 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2950	-47.987
16420	-37.494





Report No.: LGT25A044RF01 Page 75 of 112

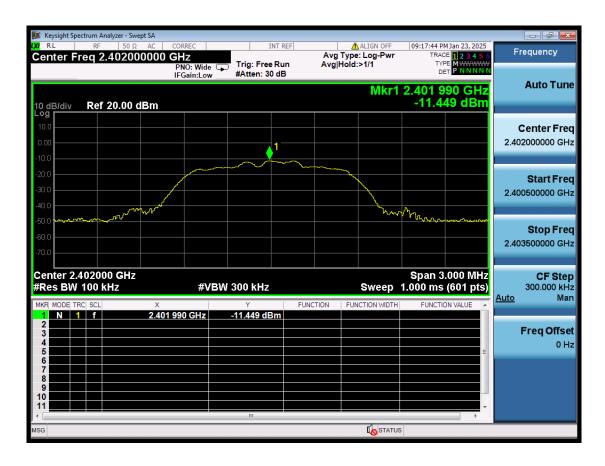


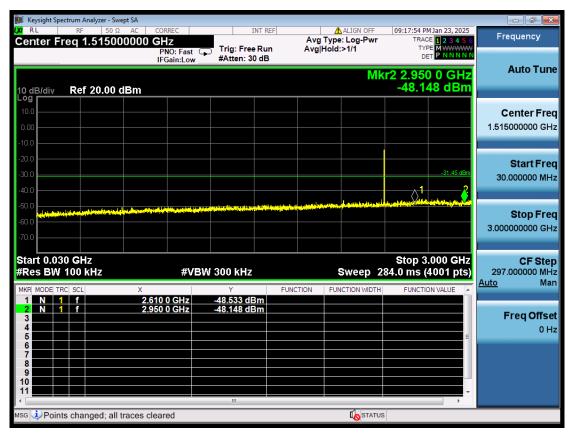




1.4 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:2DH5) (NTNV)

	/ /
Frequency(MHz)	Level(dBm)
2950	-48.148
21183	-36.72





Report No.: LGT25A044RF01 Page 77 of 112

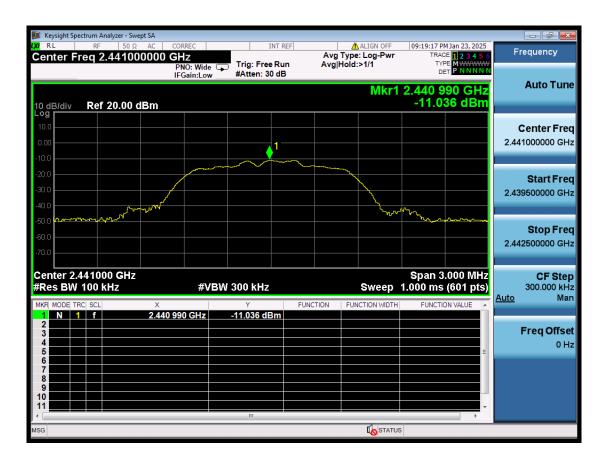


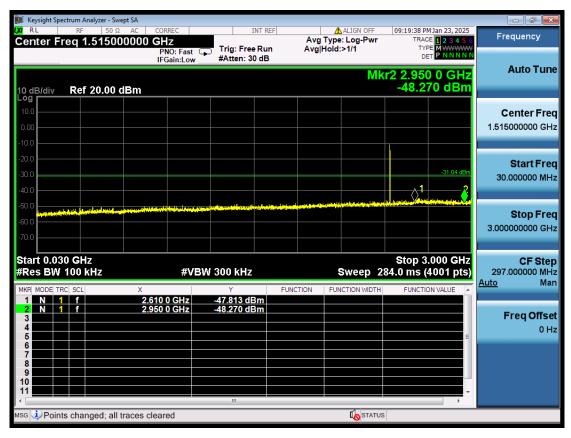




1.5 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:2DH5) (NTNV)

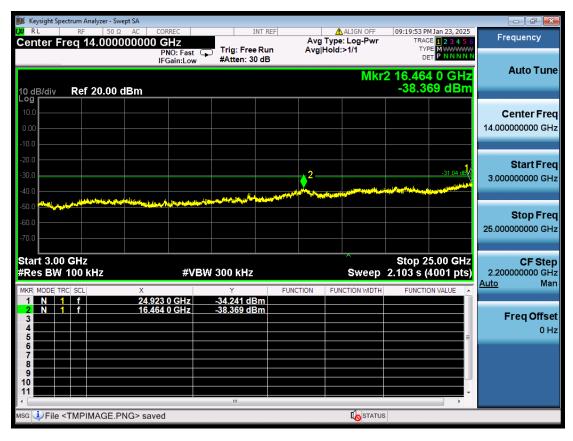
Frequency(MHz)	Level(dBm)
2950	-48.27
16464	-38.369





Report No.: LGT25A044RF01 Page 79 of 112

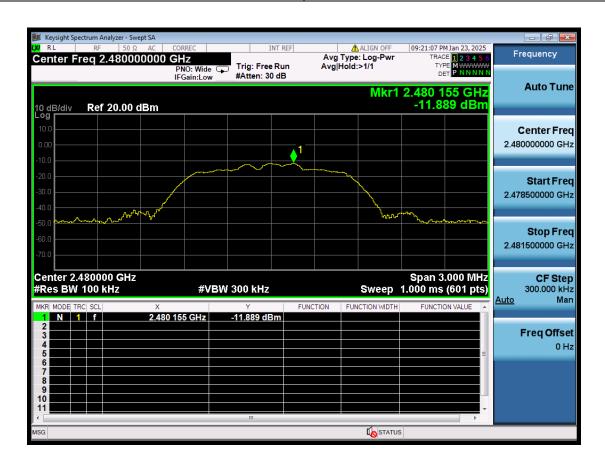


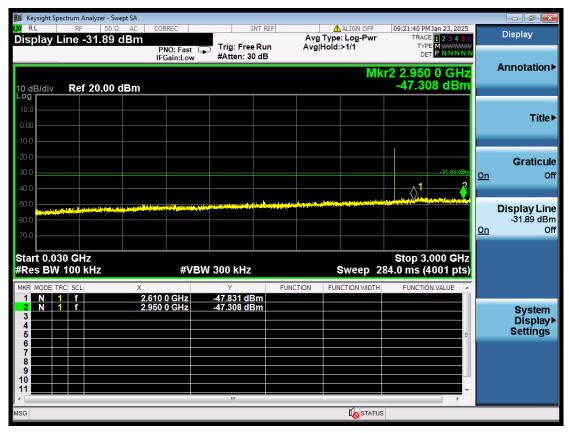




1.6 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:2DH5) (NTNV)

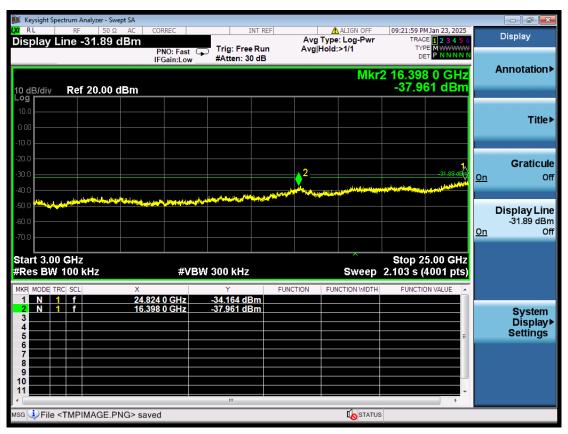
Frequency(MHz)	Level(dBm)
2950	-47.308
16398	-37.961





Report No.: LGT25A044RF01 Page 81 of 112

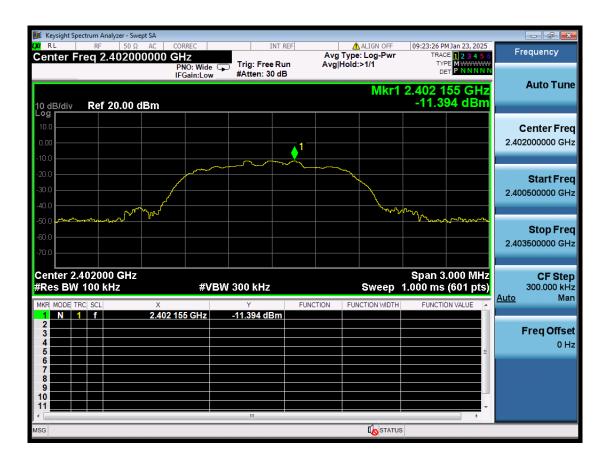






1.7 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2950	-48.632
21315	-36.465





Report No.: LGT25A044RF01 Page 83 of 112

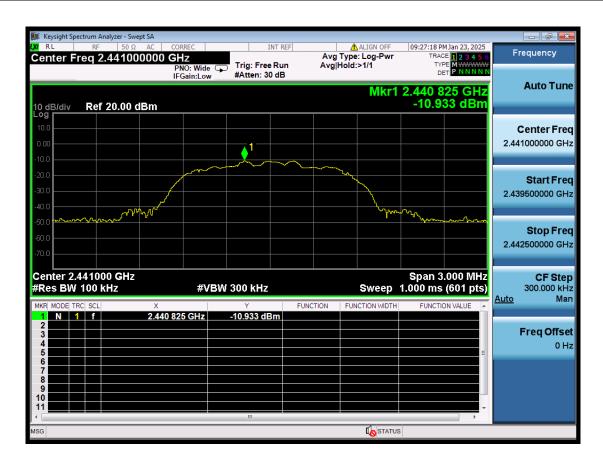


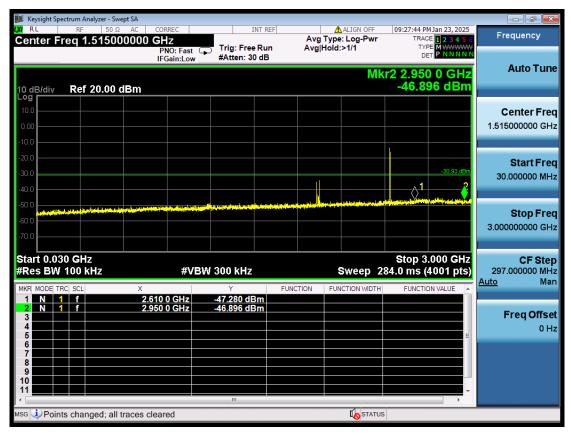




1.8 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2950	-46.896
16409	-37.417





Report No.: LGT25A044RF01 Page 85 of 112

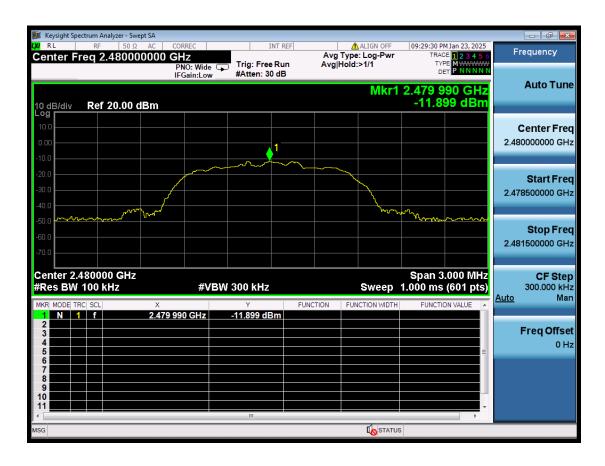


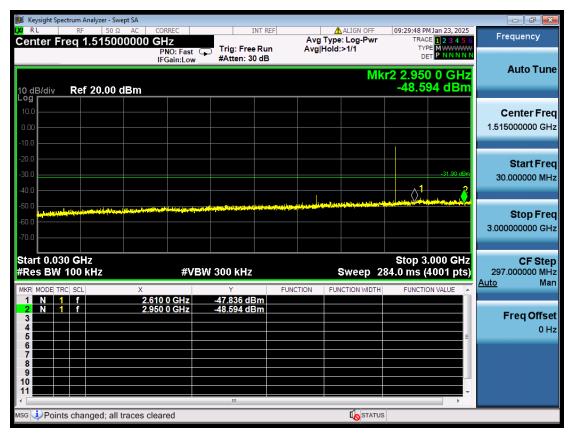




1.9 CONDUCTED SPURIOUS EMISSIONS (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2950	-48.594
16414.5	-38.19





Report No.: LGT25A044RF01 Page 87 of 112





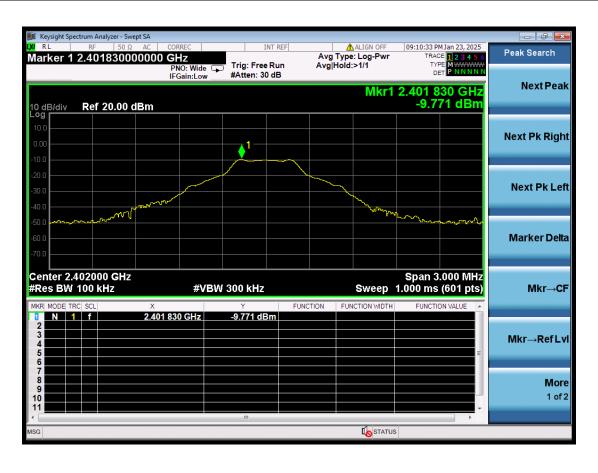


BANDEDGE(L)--CSE

1. Bluetooth For Classic

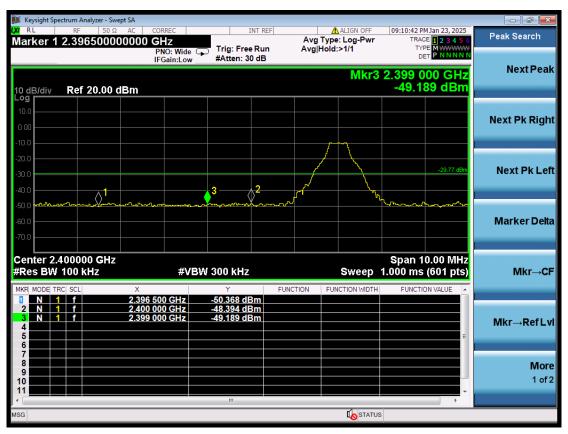
1.1 BANDEDGE(L)—CSE (TEST MODE:DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2400	-48.394



Report No.: LGT25A044RF01 Page 89 of 112

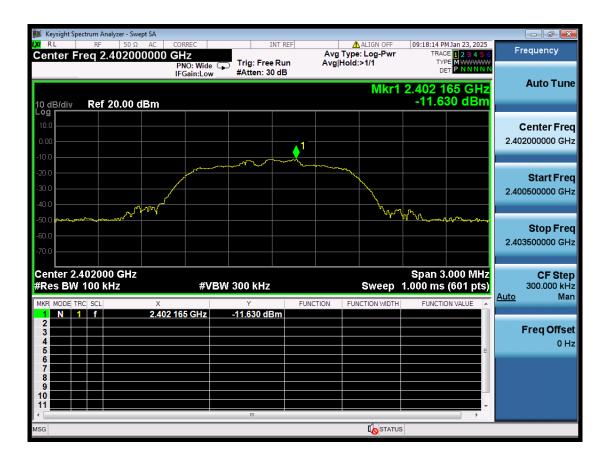


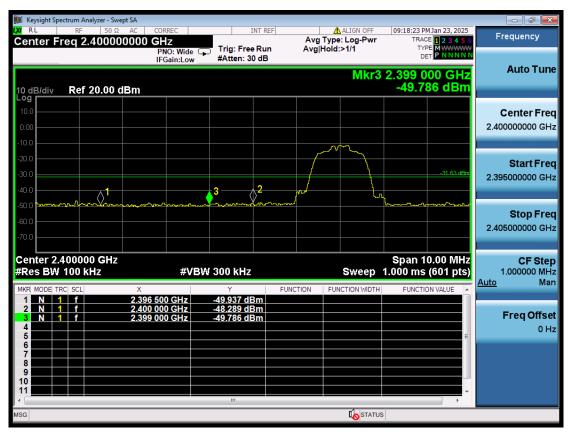




1.2 BANDEDGE(L)--CSE (TEST MODE:2DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2400	-48.298



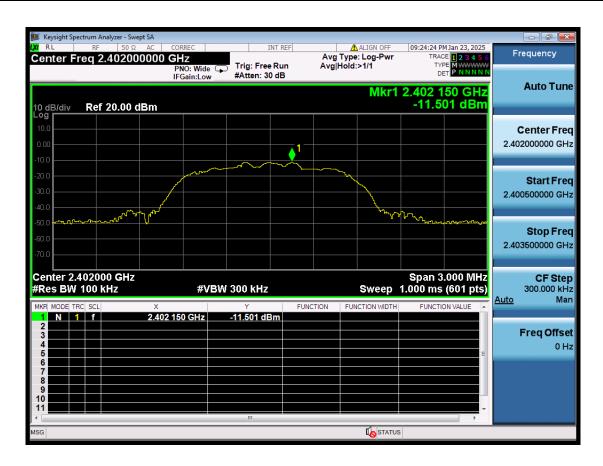


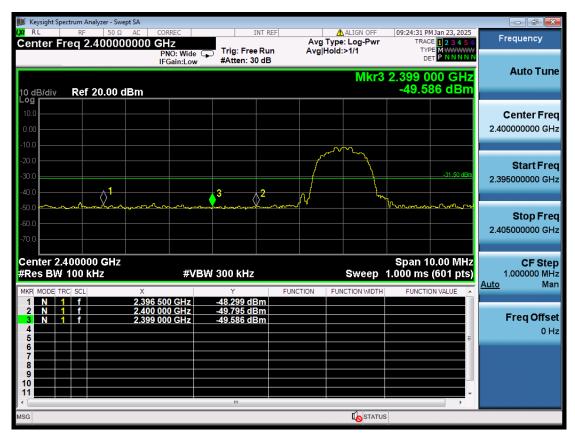
Report No.: LGT25A044RF01 Page 91 of 112



1.3 BANDEDGE(L)--CSE (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2400	-49.795





Report No.: LGT25A044RF01 Page 92 of 112

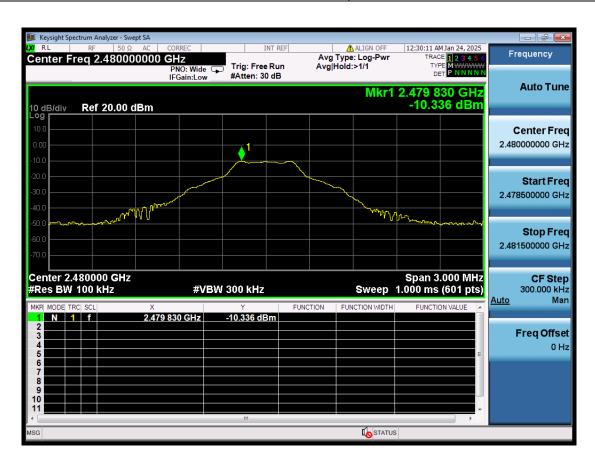


BANDEDGE(H)--CSE

1. Bluetooth For Classic

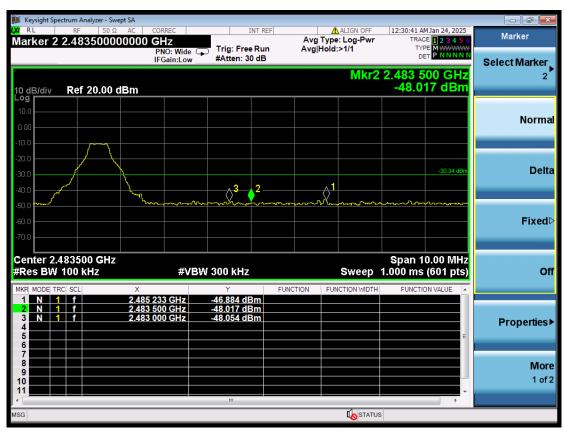
1.1 BANDEDGE(H)--CSE (TEST MODE:DH5) (NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-48.017



Report No.: LGT25A044RF01 Page 93 of 112

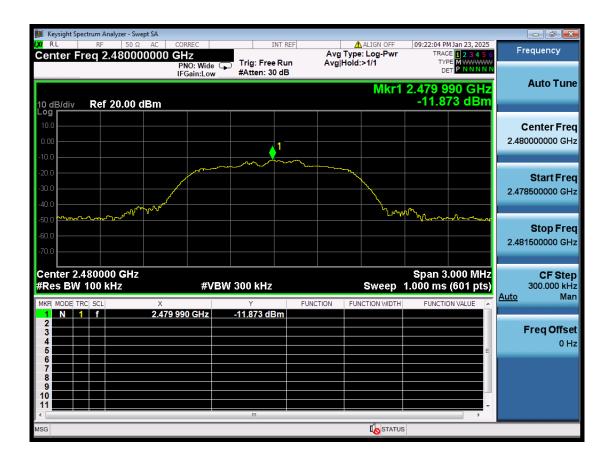


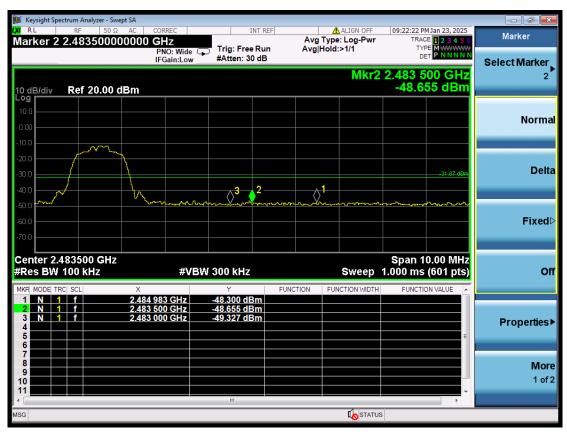




1.2 BANDEDGE(H)--CSE (TEST MODE:2DH5) (NTNV)

Frequency(MHz)	Level(dBm)		
2483.5	-48.655		



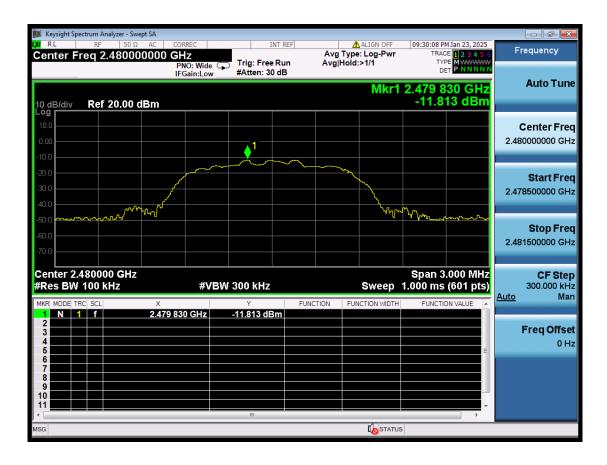


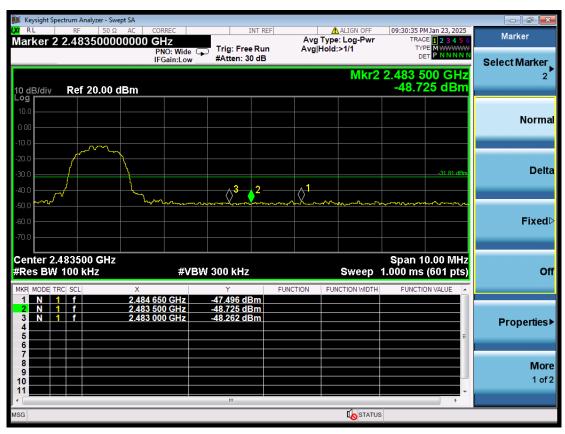
Report No.: LGT25A044RF01 Page 95 of 112



1.3 BANDEDGE(H)--CSE (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)			
2483.5	-48.725			





Report No.: LGT25A044RF01 Page 96 of 112

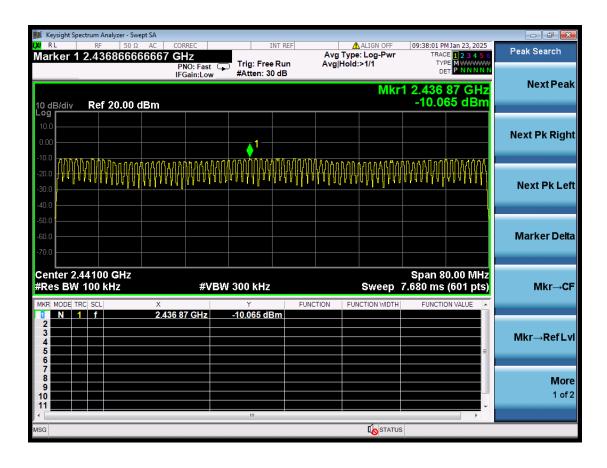


BANDEDGE(HOPPING)--CSE

1. Bluetooth For Classic_Hopping

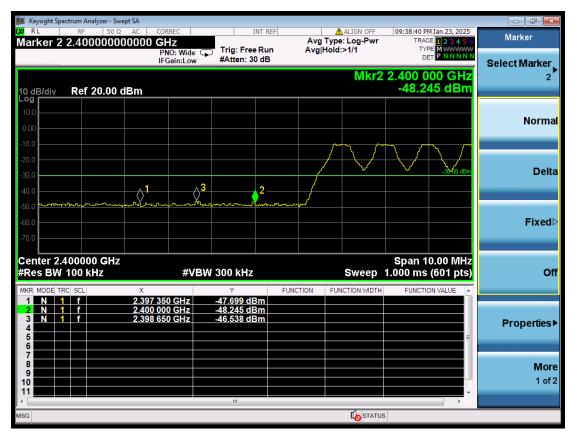
1.1 BANDEDGE(HOPPING)--CSE (TEST MODE:DH5) (NTNV)

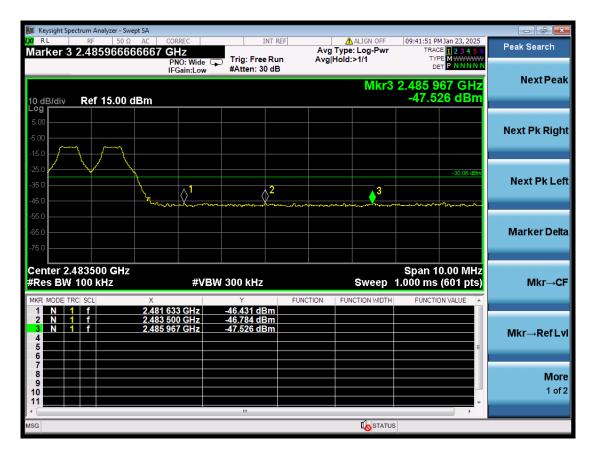
Frequency(MHz)	Level(dBm)			
2400	-48.245			
2483.5	-46.784			



Report No.: LGT25A044RF01 Page 97 of 112





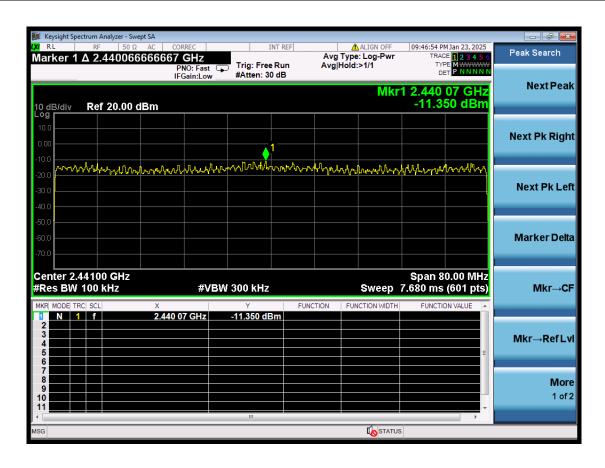


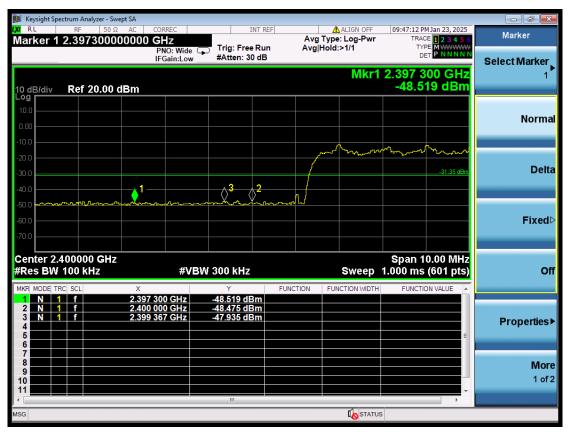
Report No.: LGT25A044RF01 Page 98 of 112



1.2 BANDEDGE(HOPPING)--CSE (TEST MODE:2DH5) (NTNV)

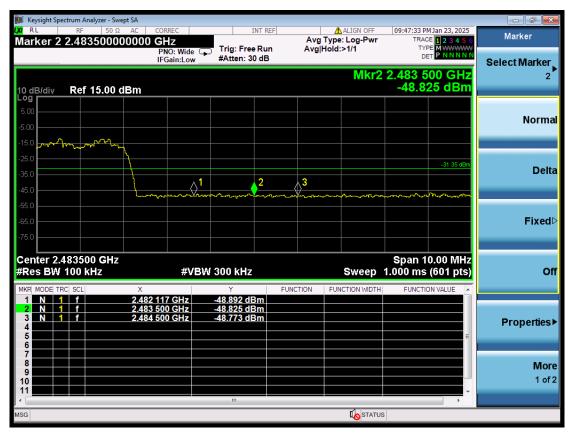
Frequency(MHz)	Level(dBm)		
2400	-48.475		
2483.5	-48.825		





Report No.: LGT25A044RF01 Page 99 of 112

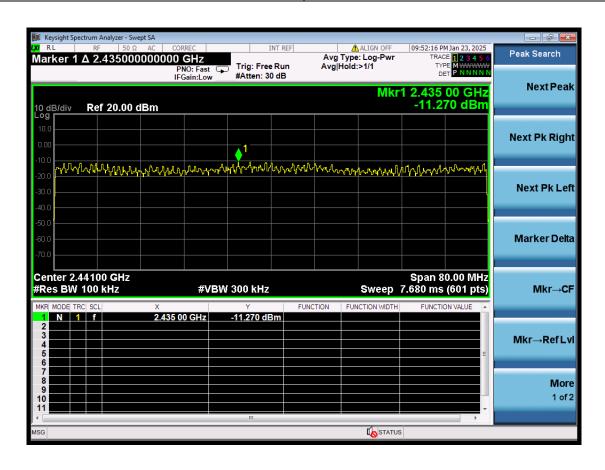


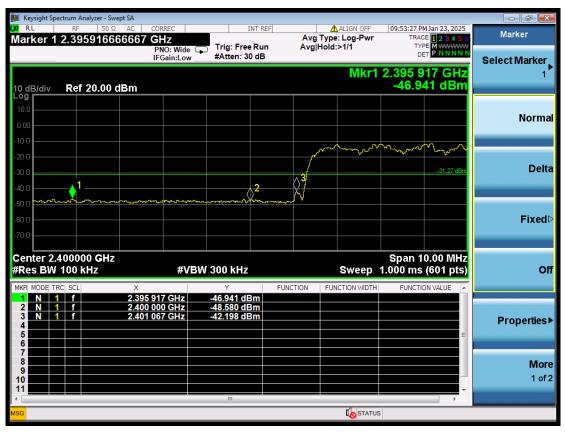




1.3 BANDEDGE(HOPPING)--CSE (TEST MODE:3DH5) (NTNV)

Frequency(MHz)	Level(dBm)			
2400	-48.580			
2483.5	-48.703			





Report No.: LGT25A044RF01 Page 101 of 112







DUTY CYCLE

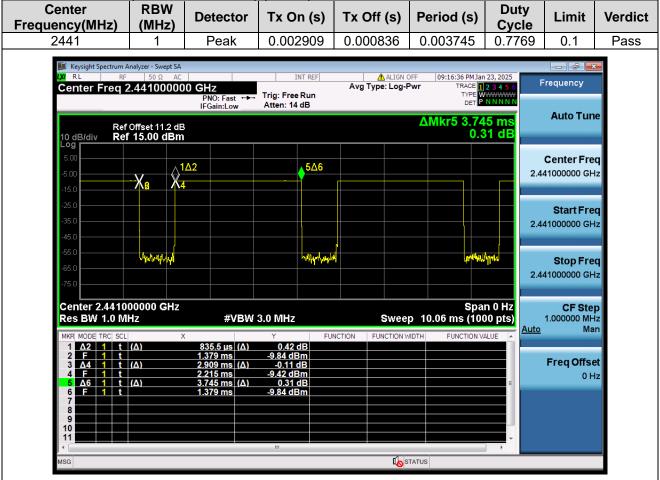
1. Bluetooth For Classic

Center equency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdic
2402	1	Peak	0.002909	0.000846	0.003755	0.7748	0.1	Pass
Keysight Spectrum Analy	zer - Swent SA							ī
LXV R.L RF	50 Ω AC		INT REF	ALIGN OF			equency	
Center Freq 2.4		NO: Fast → Trig	g: Free Run	Avg Type: Log-Pv	TYPE W	WWWW	queriey	
	IF	Gain:Low Att	en: 14 dB			NNNN	Auto Tune	
	set 11.19 dB				ΔMkr5 3.75	5 ms 8 dB	Auto Turic	
10 dB/div Ref 1:	5.00 dBm				-0.1	о a в		
5.00		1Δ2		_		C	enter Freq	
-5.00	—v—		5∆	•		2.402	2000000 GHz	
-15.0	X _a X	.4						
-25.0		 	- - - 				Start Fred	
-35.0		 	- - - 			2.402	2000000 GHz	
-45.0	- 	 	-+-+					
-55.0	MARKAN MARKAN		V-loader	n _k njuleje		April44	Stop Free	
-65.0							2000000 GHz	
-75.0								
Center 2.402000	000 GHz				Spar	n O Hz	CF Step	
Res BW 1.0 MHz		#VBW 3.0	MHz	Sweep	10.06 ms (100	0 pts) 1.	.000000 MHz	
MKR MODE TRC SCL	Х	Y		ION FUNCTION WID	TH FUNCTION VA	LUE ^	Man	
1 Δ2 1 t (Δ) 2 F 1 t	1.9		0.21 dB .37 dBm					
3 Δ4 1 t (Δ)			-0.39 dB .16 dBm				req Offset 0 Hz	
5 Δ6 1 t (Δ)	3.1	755 ms (Δ)	-0.18 dB .37 dBm			=	U H2	
6 F 1 t	1.3	973 ms -9	.37 dBm					
9								
10								
			III			T T		
				I ∕₀ STA	THE			

Page 103 of 112 Report No.: LGT25A044RF01



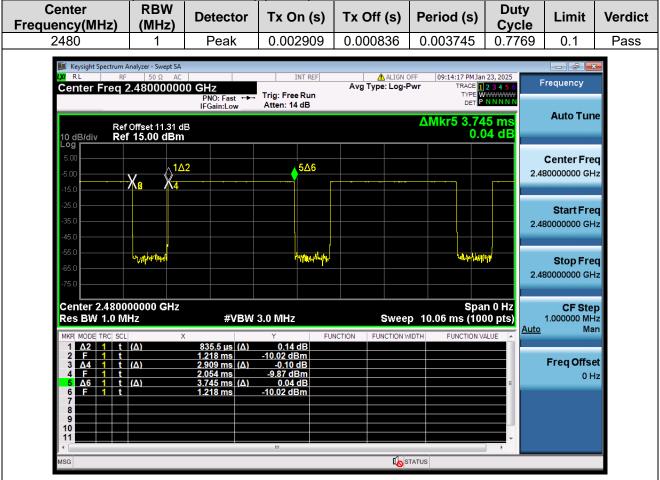
1.2 DUTY CYCLE (TEST MODE:DH5) (NTNV)



Report No.: LGT25A044RF01 Page 104 of 112



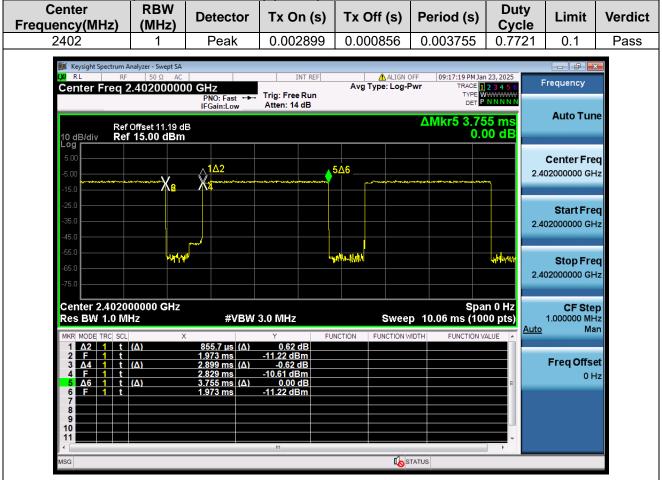
1.3 DUTY CYCLE (TEST MODE:DH5) (NTNV)



Report No.: LGT25A044RF01 Page 105 of 112



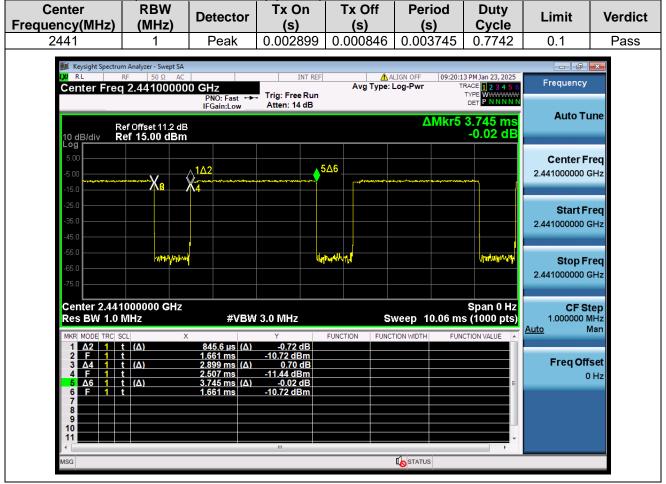
1.4 DUTY CYCLE (TEST MODE:2DH5) (NTNV)



Report No.: LGT25A044RF01 Page 106 of 112



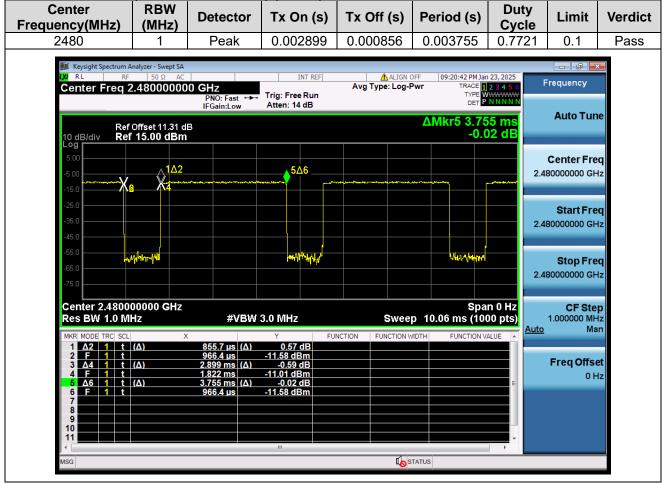
1.5 DUTY CYCLE (TEST MODE:2DH5) (NTNV)



Report No.: LGT25A044RF01 Page 107 of 112



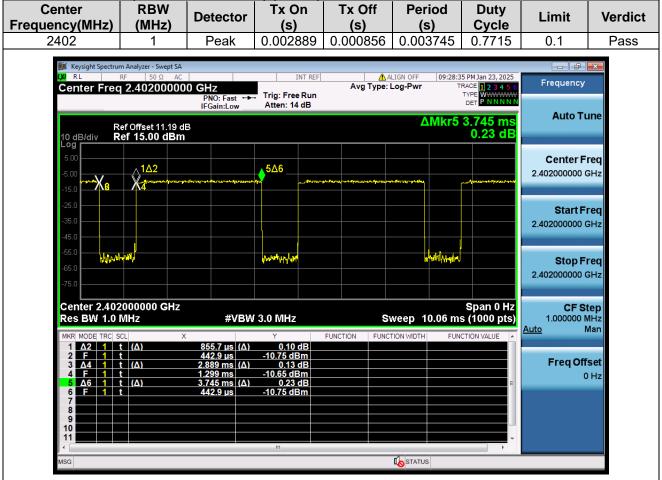
1.6 DUTY CYCLE (TEST MODE:2DH5) (NTNV)



Report No.: LGT25A044RF01 Page 108 of 112



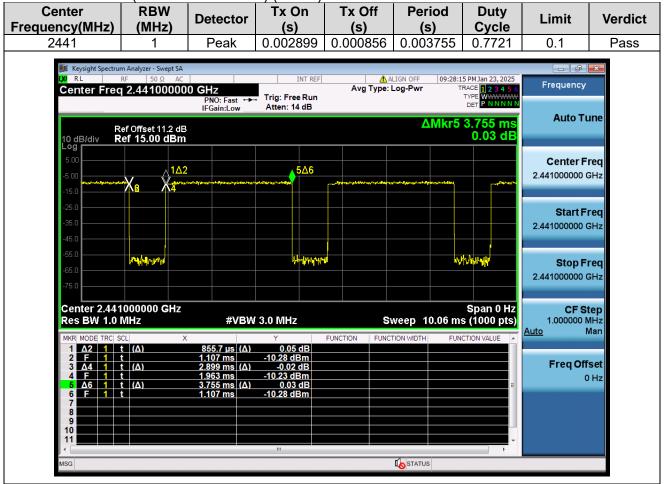
1.7 DUTY CYCLE (TEST MODE:3DH5) (NTNV)



Report No.: LGT25A044RF01 Page 109 of 112



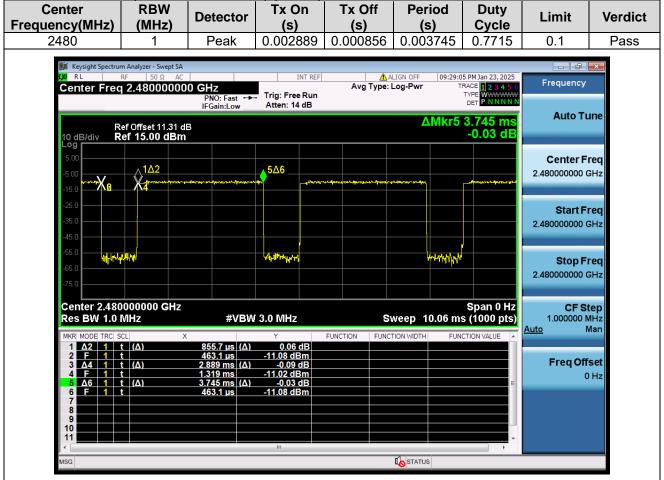
1.8 DUTY CYCLE (TEST MODE:3DH5) (NTNV)



Report No.: LGT25A044RF01 Page 110 of 112



1.9 DUTY CYCLE (TEST MODE:3DH5) (NTNV)





APPENDIX II - MEASUREMENT PHOTOS

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

 $\ensuremath{\mbox{\sc w}}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath{\mbox{\sc w}}\xspace\ensuremath}\xspace\en$

Report No.: LGT25A044RF01 Page 112 of 112