



RF TEST REPORT

Product Name: Smart Watch

Model Number: 827N

FCC ID: 2BEQO-827N

Issued For : SHENZHEN HAOCHENG TECHNOLOGY CO., LTD
501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen city, 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: LGT26H221RF01

Sample Received Date: Aug. 25, 2026

Date of Test: Aug. 25, 2026 ~ Sep. 03, 2026

Date of Issue: Sep. 03, 2026

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TEST REPORT CERTIFICATION

Applicant: SHENZHEN HAOCHENG TECHNOLOGY CO., LTD
Address: 501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen city, China
Manufacturer: SHENZHEN HAOCHENG TECHNOLOGY CO., LTD
Address: 501, Main Building, Qiaocheng No.1 Plaza, No.2 shenyun Road, Gaofa Community, Shahe Street, Nanshan District, Shenzhen city, China
Product Name: Smart Watch
Trademark: N/A
Model Number: 827N
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.247, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS

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Revision History

Rev.	Issue Date	Revisions
00	Sep. 03, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

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

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

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.



1.1 TEST LABORATORY

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
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	All Emissions, Radiated (18GHz-40GHz)	$\pm 4.31\text{dB}$
10	Temperature	$\pm 0.5^{\circ}\text{C}$
11	Humidity	$\pm 2\%$
12	Duty Cycle	$\pm 2.3\%$

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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Smart Watch
Test Model Number:	827N
Series Number:	N/A
Model Difference:	N/A
Channel List:	Please refer to the Note 3.
Bluetooth:	Frequency: 2402 – 2480 MHz Modulation: GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps)
Antenna Type:	FPC Antenna
Antenna Gain:	-8.54dBi
Rating:	Input: DC 5V 180mA
Battery:	Capacity: 190mAh Rated Voltage: 3.8V
Hardware Version:	AB281_V03
Software Version:	V001138
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.



3.

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		



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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	Modulation
Mode 1	TX CH00(2402MHz)	DH5/GFSK
Mode 2	TX CH39(2441MHz)	DH5/GFSK
Mode 3	TX CH78(2480MHz)	DH5/GFSK
Mode 4	TX CH00(2402MHz)	2DH5/ π /4-DQPSK
Mode 5	TX CH39(2441MHz)	2DH5/ π /4-DQPSK
Mode 6	TX CH78(2480MHz)	2DH5/ π /4-DQPSK
Mode 7	Hopping	DH5/GFSK
Mode 8	Hopping	2DH5/ π /4-DQPSK

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 9: 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.

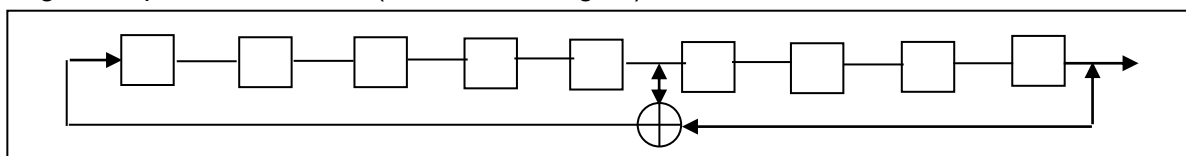
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination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

Number of shift register stages:9

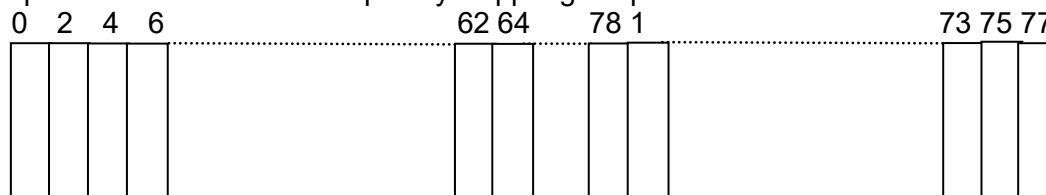


Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
 Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generator of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

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

(3) Frequency Hopping System

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

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

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

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



2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

Test software Version	Test program: Bluetooth	
bt_tool_v1.1.2	Mode Or Modulation type	Power setting
	1M	5
	2M	5

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 Cable	N/A	N/A	N/A	0.5m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Tenpao	S010WU05002 00	N/A	Input: 100-240V 50/60Hz 0.4A Output: 5V, 2A

Note:

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



2.6 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESCI	100458	2026-04-21	2027-04-20
LISN	COM-POWER	LI-115	02032	2026-03-03	2027-03-02
LISN	SCHWARZBECK	NNLK 8122	00160	2026-03-03	2027-03-02
Transient Limiter	CYBERTEK	EM5010A	E22501000 49	2026-03-03	2027-03-02
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-NMN M-2M	N.A	2026-03-03	2027-03-02
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
Active loop Antenna	ETS	6502	00049544	2025-03-11	2028-03-10
Spectrum Analyzer	Keysight	N9010B	MY602425 08	2026-03-03	2027-03-02
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024-05-17	2027-05-16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025-03-10	2028-03-09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023-10-23	2026-10-22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2026-03-02	2027-03-01
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2026-03-02	2027-03-01
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025-10-20	2026-10-19
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-NMN M-8M	N.A	2026-03-03	2027-03-02
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B-NM SM-1M9	N.A	2026-03-03	2027-03-02
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-050 00KMSKMS	N.A	2026-03-03	2027-03-02
Band 2.4G-2.5G Filter	SEKT	K6-2400-2500- 10S4550-001	N.A	2026-03-08	2027-03-07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2026-08-07	2027-08-06
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093 008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9020A	MY505309 94	2026-03-03	2027-03-02
Power Sensor	R&S	NRP8S	104963	2026-03-02	2027-03-01
RF Automatic Test system	TST	TST PASS	293	2026-07-14	2027-07-13
MXG Vector Signal Generator	Keysight	N5182B	MY591007 17	2026-03-03	2027-03-02
Temperature& Humidity	AISRY	LX-1000L	171200018	2026-07-29	2027-07-28



test chamber					
Attenuator	eastsheep	90db	N.A	2026-03-02	2027-03-01
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Digital multimeter	FLUKE	F101	N.A	2026-03-03	2027-03-02
DC source	Keysight	E3634A	MY580364 68	2026-03-05	2027-03-04
Testing Software	TST Pass_2.0.2				



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 Emission limit (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.

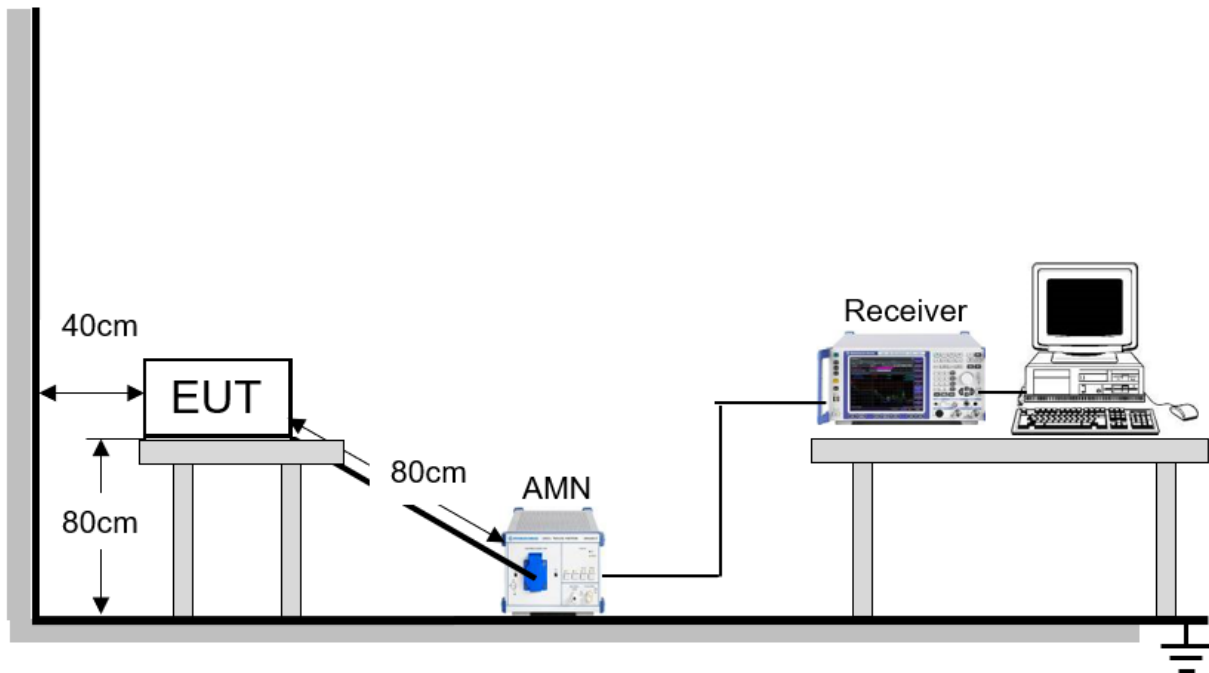
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



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.

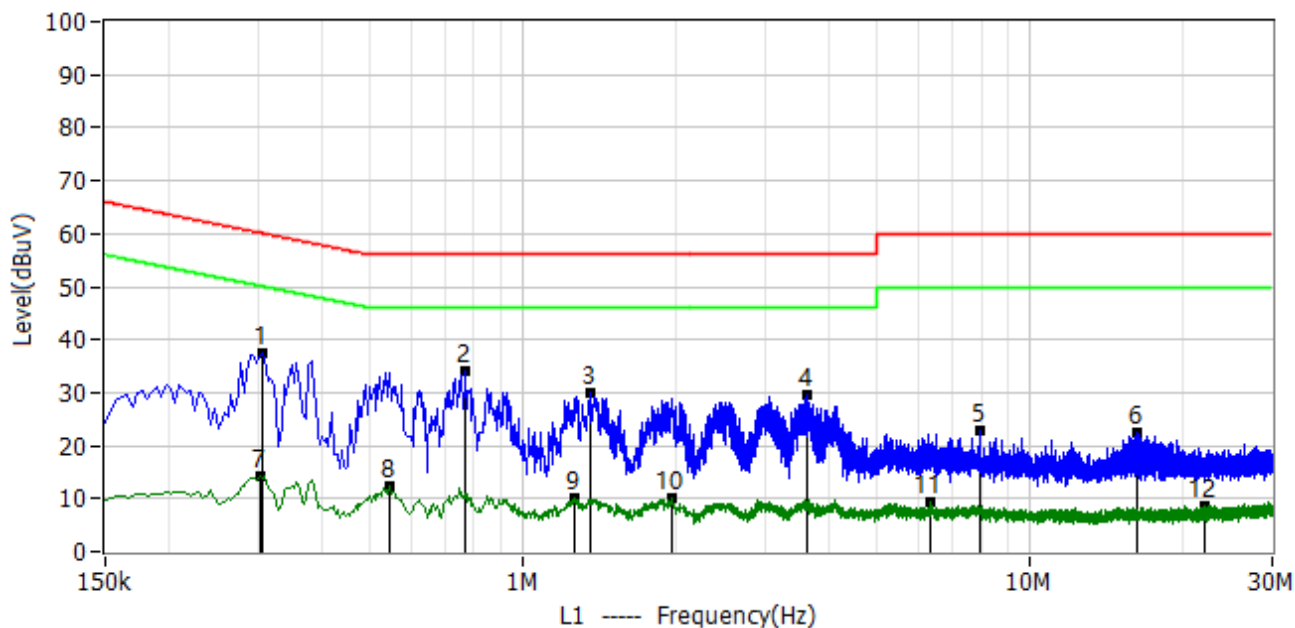


3.1.5 TEST RESULT

Note: Level = Reading + Factor

Margin = Level – Limit

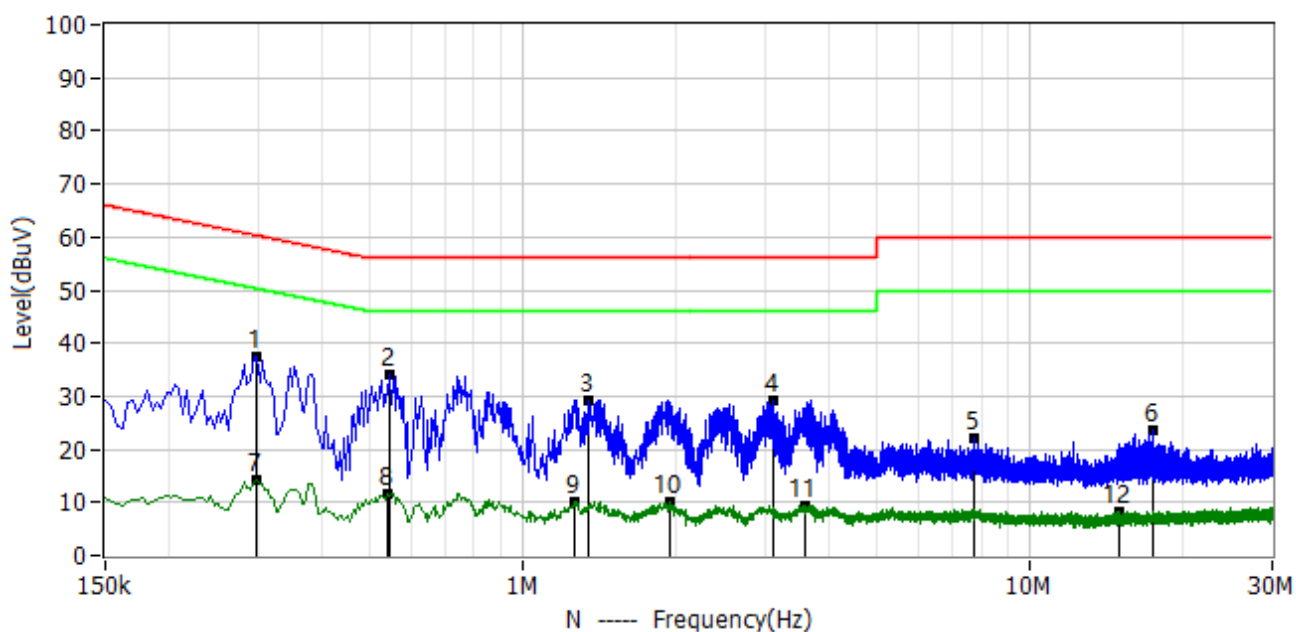
Project: LGT26H221	Test Engineer: Bill Chen
EUT: Smart Watch	Temperature: 25.5°C
M/N: 827N	Humidity: 48%RH
Test Voltage: AC 120V/60Hz	Test Date: 2026-08-26
Test Mode: TX 2DH5 2441	
Note: AC Mains port	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.306	26.78	10.62	37.40	60.08	-22.68	QP	L1
2*	0.770	23.36	10.64	34.00	56.00	-22.00	QP	L1
3*	1.354	19.37	10.73	30.10	56.00	-25.90	QP	L1
4*	3.614	18.79	10.95	29.74	56.00	-26.26	QP	L1
5*	7.926	11.63	11.16	22.79	60.00	-37.21	QP	L1
6*	16.218	11.08	11.47	22.55	60.00	-37.45	QP	L1
7*	0.302	3.64	10.62	14.26	50.19	-35.93	AV	L1
8*	0.546	1.60	10.63	12.23	46.00	-33.77	AV	L1
9*	1.266	-0.49	10.71	10.22	46.00	-35.78	AV	L1
10*	1.966	-0.86	10.87	10.01	46.00	-35.99	AV	L1
11*	6.362	-1.86	11.09	9.23	50.00	-40.77	AV	L1
12*	21.986	-3.10	11.61	8.51	50.00	-41.49	AV	L1



Project: LGT26H221	Test Engineer: Bill Chen
EUT: Smart Watch	Temperature: 25.5°C
M/N: 827N	Humidity: 48%RH
Test Voltage: AC 120V/60Hz	Test Date: 2026-08-26
Test Mode: TX 2DH5 2441	
Note: AC Mains port	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.298	26.74	10.63	37.37	60.30	-22.93	QP	N
2*	0.546	23.47	10.65	34.12	56.00	-21.88	QP	N
3*	1.350	18.60	10.74	29.34	56.00	-26.66	QP	N
4*	3.110	18.27	10.92	29.19	56.00	-26.81	QP	N
5*	7.750	10.81	11.13	21.94	60.00	-38.06	QP	N
6*	17.406	12.06	11.53	23.59	60.00	-36.41	QP	N
7*	0.298	3.56	10.63	14.19	50.30	-36.11	AV	N
8*	0.538	1.06	10.65	11.71	46.00	-34.29	AV	N
9*	1.258	-0.54	10.72	10.18	46.00	-35.82	AV	N
10*	1.950	-0.91	10.86	9.95	46.00	-36.05	AV	N
11*	3.586	-1.40	10.94	9.54	46.00	-36.46	AV	N
12*	15.006	-3.09	11.47	8.38	50.00	-41.62	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 below has to be followed.

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

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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			



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)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

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

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



3.2.2 TEST PROCEDURE

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

Note:

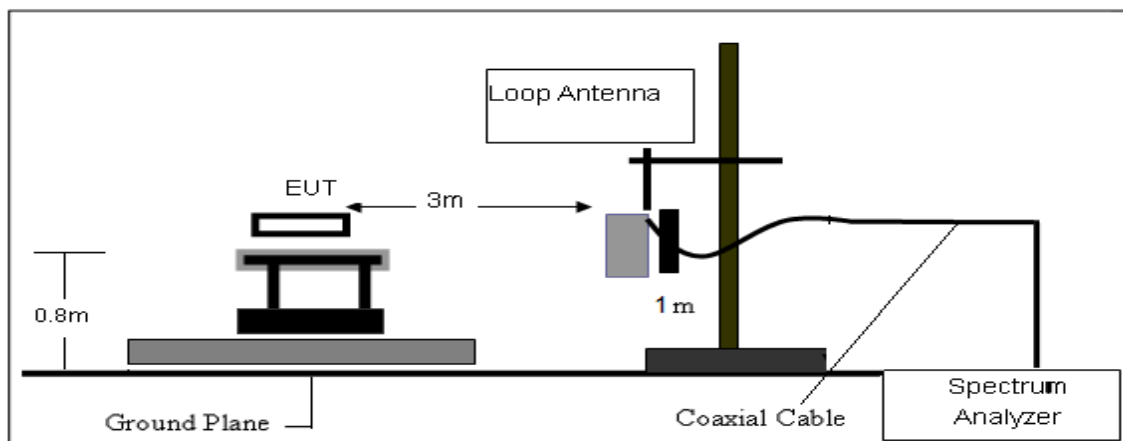
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

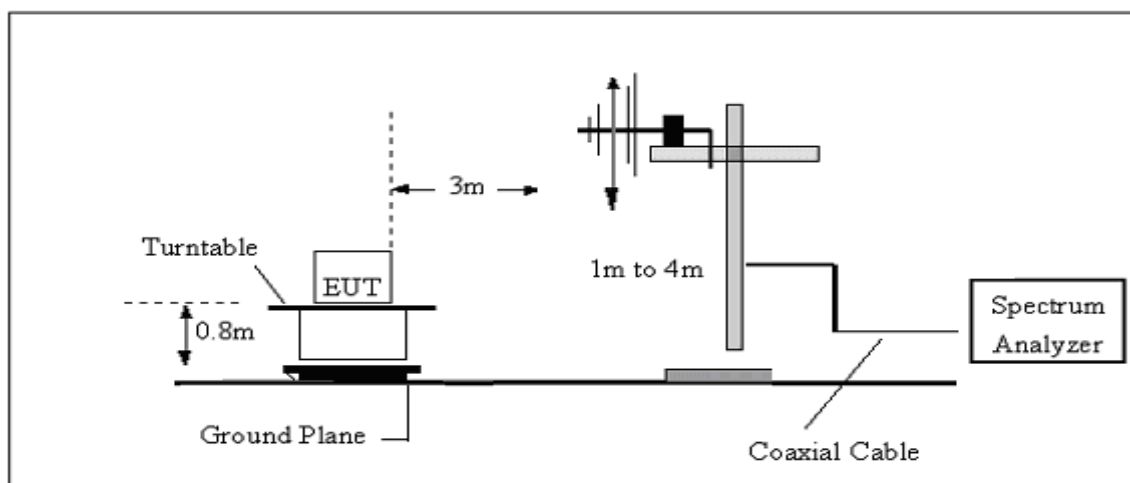
No deviation.

3.2.4 TESTSETUP

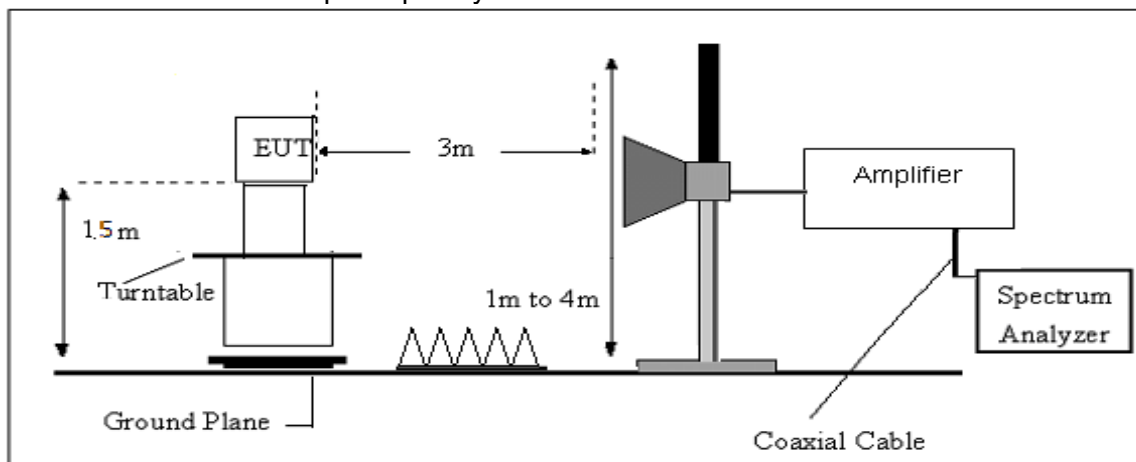
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.



3.2.6 FIELD STRENGTH CALCULATION

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

$$FS = RA + AF + CL - AG$$

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

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.7 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

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

Note:

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

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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



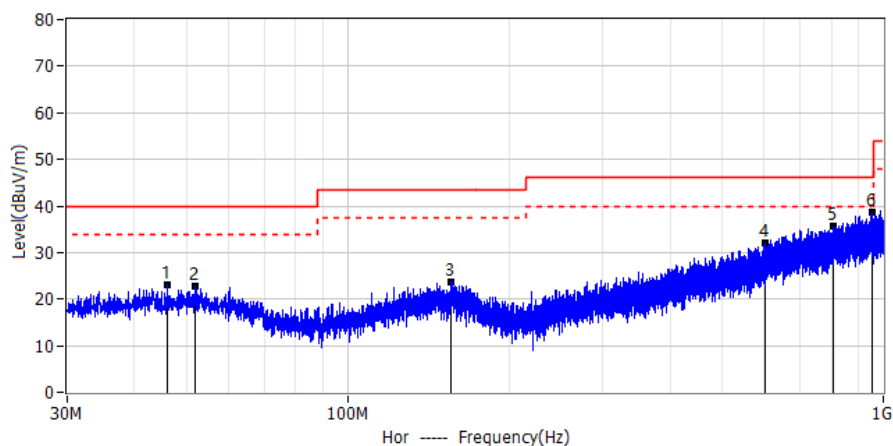
Results of Radiated Emissions (30MHz~1000MHz)

Note: 1. All mode has been tested, only shown the worst case data.

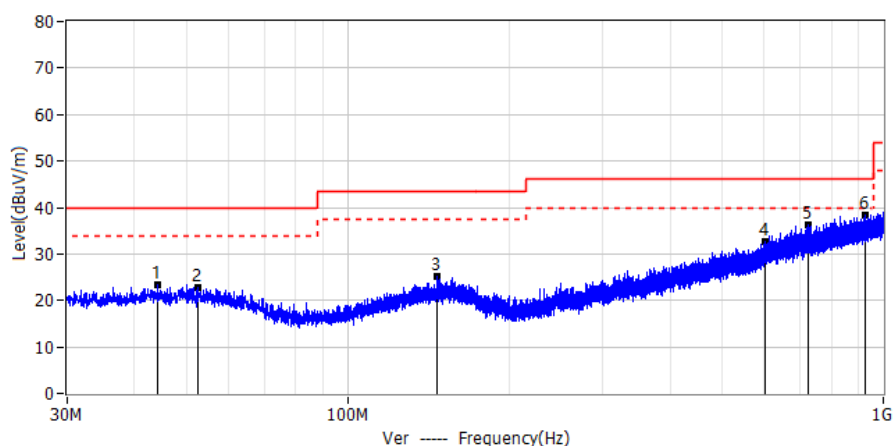
2. Note: Level = Reading + Factor

Margin = Level – Limit

Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: TX 2DH5 2441	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	46.216	2.43	20.70	23.13	40.00	-16.87	PK	Hor
2*	52.086	1.97	20.70	22.67	40.00	-17.33	PK	Hor
3*	156.448	1.46	22.27	23.73	43.50	-19.77	PK	Hor
4*	601.007	2.55	29.51	32.06	46.00	-13.94	PK	Hor
5*	807.393	2.60	33.18	35.78	46.00	-10.22	PK	Hor
6*	953.042	3.56	35.04	38.60	46.00	-7.40	PK	Hor

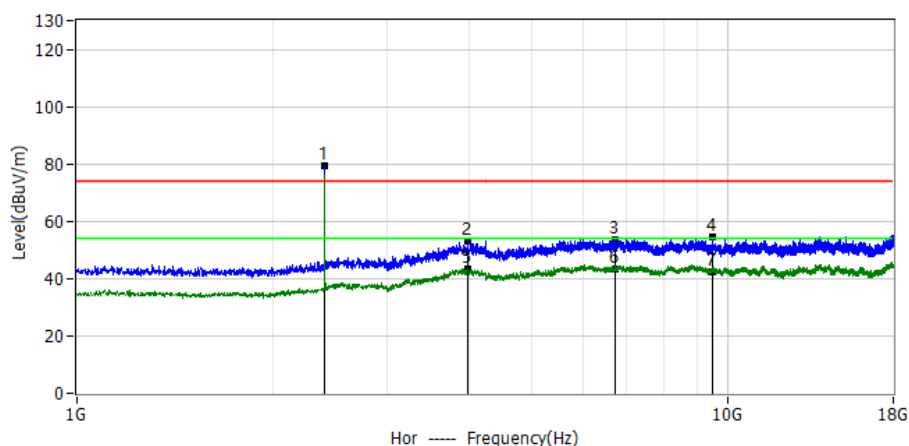


No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	44.177	2.38	20.93	23.31	40.00	-16.69	PK	Ver
2*	52.733	1.90	20.90	22.80	40.00	-17.20	PK	Ver
3*	146.997	3.11	22.11	25.22	43.50	-18.28	PK	Ver
4*	600.062	3.20	29.54	32.74	46.00	-13.26	PK	Ver
5*	722.530	4.50	31.70	36.20	46.00	-9.80	PK	Ver
6*	926.230	4.01	34.31	38.32	46.00	-7.68	PK	Ver

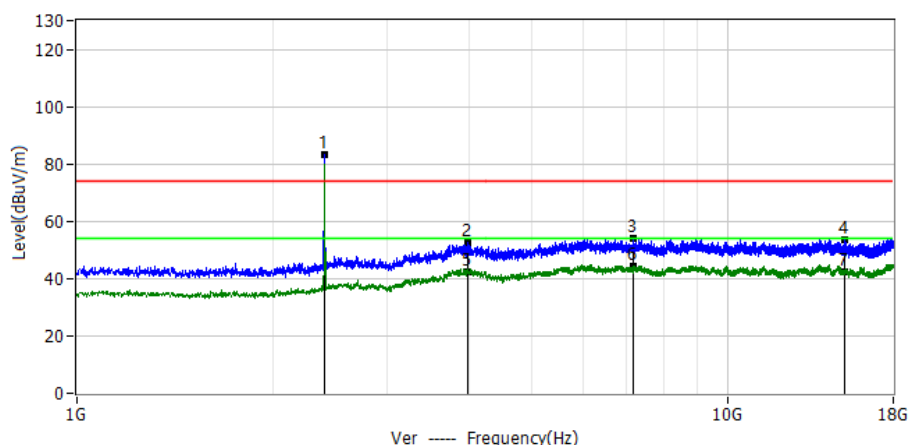


Results of Radiated Emissions (Above 1000MHz)

Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2402	
Note:	



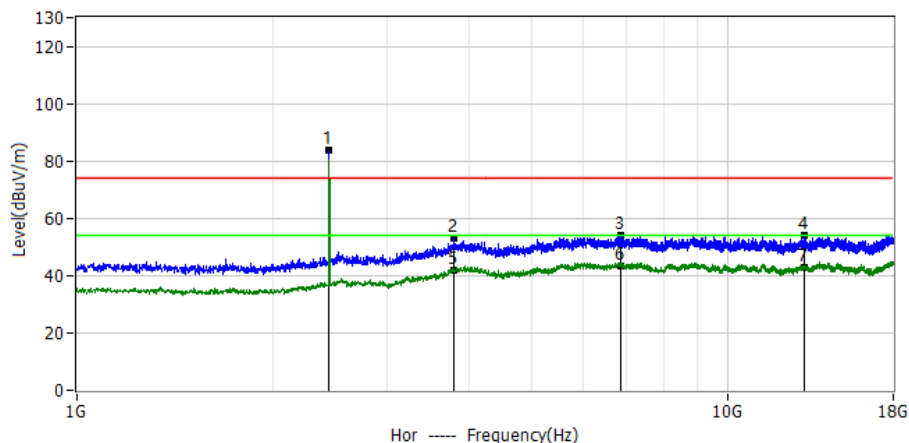
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	89.06	-9.78	79.28	/	/	PK	Hor
2*	3.9835GHz	56.30	-3.01	53.29	74.00	-20.71	PK	Hor
3*	6.7226GHz	59.17	-5.38	53.79	74.00	-20.21	PK	Hor
4*	9.5106GHz	60.84	-6.19	54.65	74.00	-19.35	PK	Hor
5*	3.9835GHz	46.31	-3.01	43.30	54.00	-10.70	AV	Hor
6*	6.7226GHz	48.78	-5.38	43.40	54.00	-10.60	AV	Hor
7*	9.5106GHz	48.69	-6.19	42.50	54.00	-11.50	AV	Hor



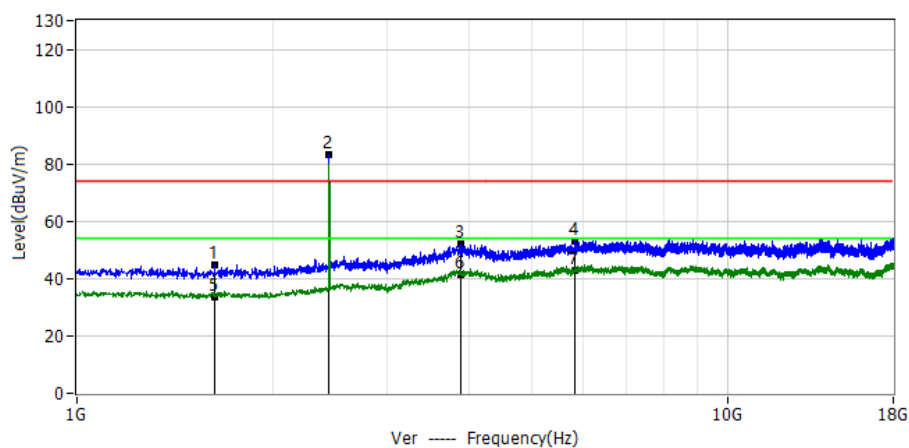
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	93.22	-9.78	83.44	/	/	PK	Ver
2*	3.9984GHz	55.63	-3.08	52.55	74.00	-21.45	PK	Ver
3*	7.1752GHz	59.39	-5.40	53.99	74.00	-20.01	PK	Ver
4*	15.1334GHz	58.71	-5.25	53.46	74.00	-20.54	PK	Ver
5*	3.9984GHz	45.58	-3.08	42.50	54.00	-11.50	AV	Ver
6*	7.1752GHz	49.70	-5.40	44.30	54.00	-9.70	AV	Ver
7*	15.1334GHz	47.85	-5.25	42.60	54.00	-11.40	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2441	
Note:	



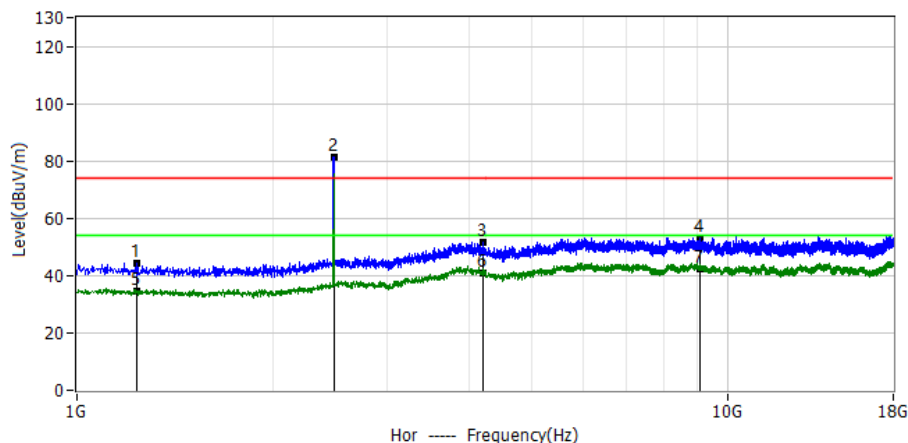
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4407GHz	93.07	-9.36	83.71	/	/	PK	Hor
2*	3.7944GHz	55.62	-2.68	52.94	74.00	-21.06	PK	Hor
3*	6.8437GHz	59.75	-5.63	54.12	74.00	-19.88	PK	Hor
4*	13.1614GHz	59.51	-5.58	53.93	74.00	-20.07	PK	Hor
5*	3.7944GHz	44.48	-2.68	41.80	54.00	-12.20	AV	Hor
6*	6.8437GHz	49.13	-5.63	43.50	54.00	-10.50	AV	Hor
7*	13.1614GHz	48.58	-5.58	43.00	54.00	-11.00	AV	Hor



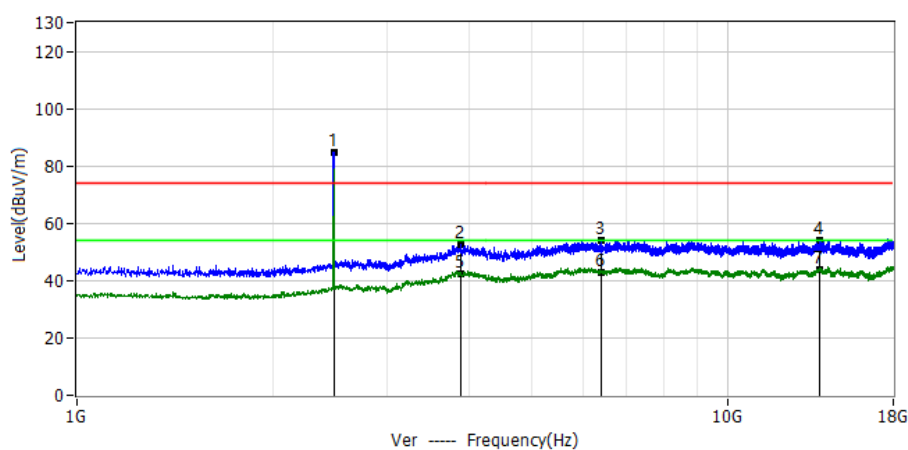
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.6269GHz	60.90	-16.04	44.86	74.00	-29.14	PK	Ver
!2*	2.4407GHz	92.67	-9.36	83.31	/	/	PK	Ver
3*	3.8836GHz	54.68	-2.67	52.01	74.00	-21.99	PK	Ver
4*	5.8344GHz	58.26	-5.00	53.26	74.00	-20.74	PK	Ver
5*	1.6269GHz	49.84	-16.04	33.80	54.00	-20.20	AV	Ver
6*	3.8836GHz	44.17	-2.67	41.50	54.00	-12.50	AV	Ver
7*	5.8344GHz	47.70	-5.00	42.70	54.00	-11.30	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2480	
Note:	



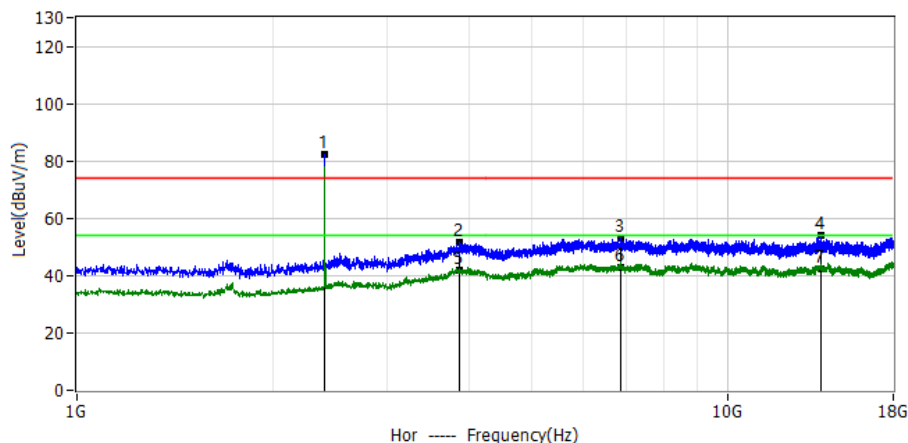
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.2337GHz	61.63	-17.31	44.32	74.00	-29.68	PK	Hor
!2*	2.4811GHz	89.95	-8.72	81.23	/	/	PK	Hor
3*	4.2215GHz	55.43	-3.99	51.44	74.00	-22.56	PK	Hor
4*	9.0877GHz	58.89	-5.78	53.11	74.00	-20.89	PK	Hor
5*	1.2337GHz	52.11	-17.31	34.80	54.00	-19.20	AV	Hor
6*	4.2215GHz	44.99	-3.99	41.00	54.00	-13.00	AV	Hor
7*	9.0877GHz	48.38	-5.78	42.60	54.00	-11.40	AV	Hor



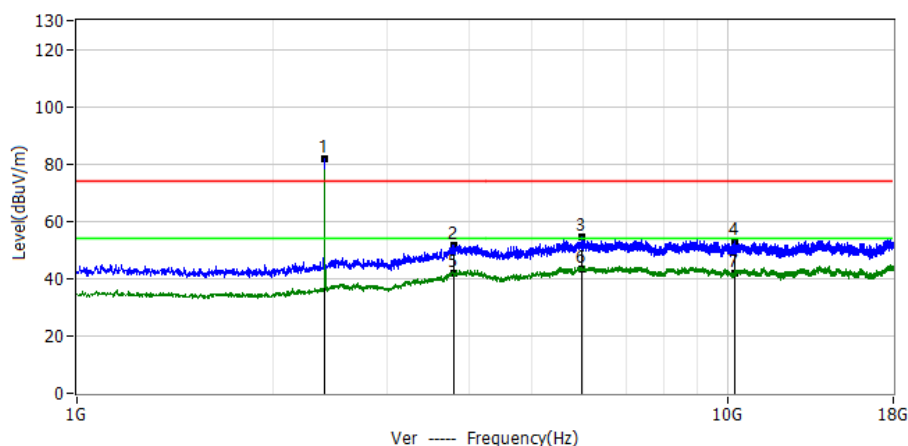
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4811GHz	93.30	-8.72	84.58	/	/	PK	Ver
2*	3.8942GHz	55.15	-2.70	52.45	74.00	-21.55	PK	Ver
3*	6.3996GHz	59.45	-5.37	54.08	74.00	-19.92	PK	Ver
4*	13.8669GHz	58.33	-4.18	54.15	74.00	-19.85	PK	Ver
5*	3.8942GHz	45.00	-2.70	42.30	54.00	-11.70	AV	Ver
6*	6.3996GHz	48.37	-5.37	43.00	54.00	-11.00	AV	Ver
7*	13.8669GHz	47.78	-4.18	43.60	54.00	-10.40	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2402	
Note:	



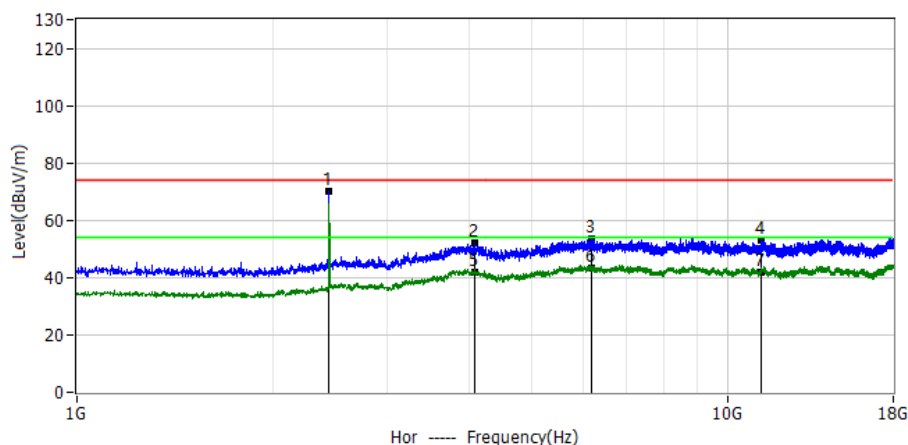
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	91.86	-9.78	82.08	/	/	PK	Hor
2*	3.8794GHz	54.22	-2.66	51.56	74.00	-22.44	PK	Hor
3*	6.8650GHz	58.63	-5.58	53.05	74.00	-20.95	PK	Hor
4*	13.9221GHz	58.08	-4.15	53.93	74.00	-20.07	PK	Hor
5*	3.8794GHz	44.66	-2.66	42.00	54.00	-12.00	AV	Hor
6*	6.8650GHz	48.58	-5.58	43.00	54.00	-11.00	AV	Hor
7*	13.9221GHz	46.55	-4.15	42.40	54.00	-11.60	AV	Hor



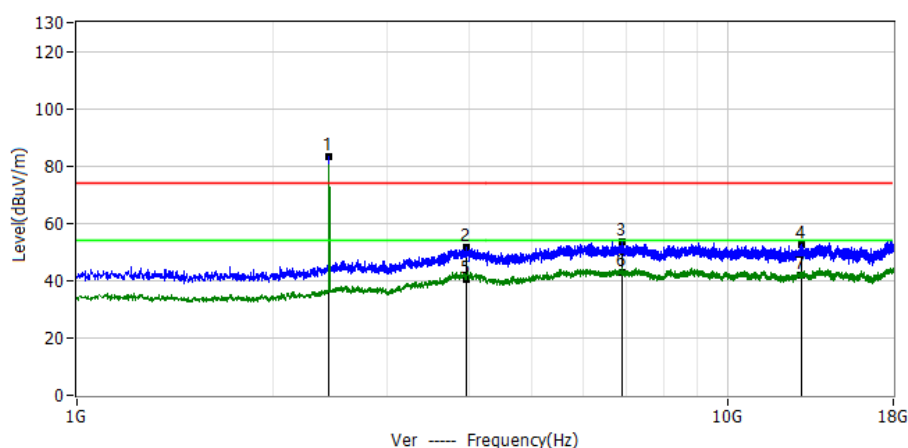
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	91.81	-9.78	82.03	/	/	PK	Ver
2*	3.7986GHz	54.47	-2.65	51.82	74.00	-22.18	PK	Ver
3*	5.9682GHz	59.39	-4.97	54.42	74.00	-19.58	PK	Ver
4*	10.2777GHz	58.96	-5.72	53.24	74.00	-20.76	PK	Ver
5*	3.7986GHz	44.35	-2.65	41.70	54.00	-12.30	AV	Ver
6*	5.9682GHz	48.37	-4.97	43.40	54.00	-10.60	AV	Ver
7*	10.2777GHz	47.62	-5.72	41.90	54.00	-12.10	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2441	
Note:	



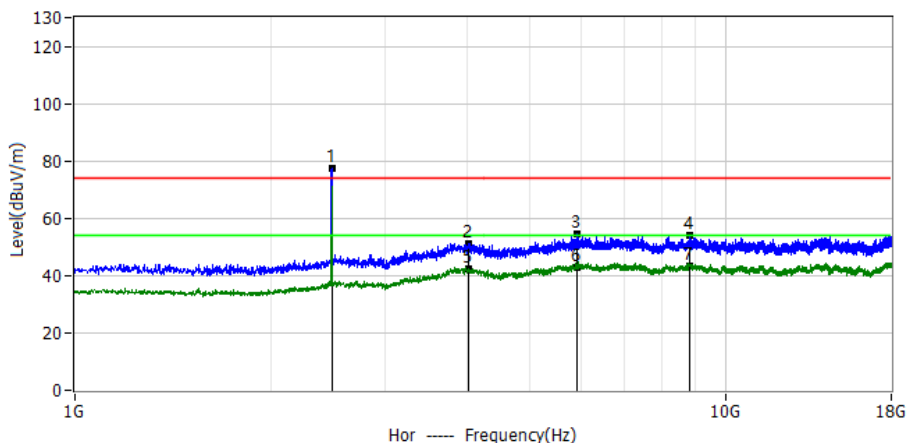
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4407GHz	79.64	-9.36	70.28	/	/	PK	Hor
2*	4.0897GHz	55.53	-3.45	52.08	74.00	-21.92	PK	Hor
3*	6.1892GHz	58.57	-4.95	53.62	74.00	-20.38	PK	Hor
4*	11.2701GHz	58.65	-5.73	52.92	74.00	-21.08	PK	Hor
5*	4.0897GHz	45.55	-3.45	42.10	54.00	-11.90	AV	Hor
6*	6.1892GHz	48.15	-4.95	43.20	54.00	-10.80	AV	Hor
7*	11.2701GHz	47.83	-5.73	42.10	54.00	-11.90	AV	Hor



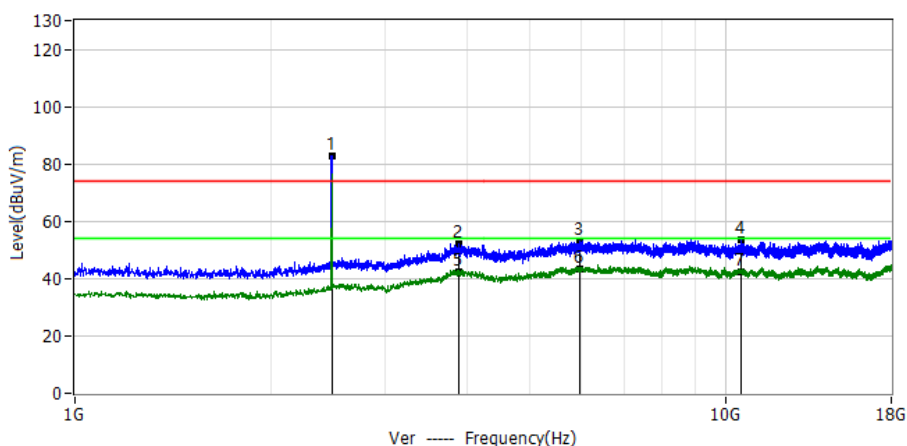
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4407GHz	92.81	-9.36	83.45	/	/	PK	Ver
2*	3.9622GHz	54.63	-2.91	51.72	74.00	-22.28	PK	Ver
3*	6.8756GHz	58.95	-5.53	53.42	74.00	-20.58	PK	Ver
4*	13.0360GHz	58.23	-5.71	52.52	74.00	-21.48	PK	Ver
5*	3.9622GHz	43.31	-2.91	40.40	54.00	-13.60	AV	Ver
6*	6.8756GHz	48.33	-5.53	42.80	54.00	-11.20	AV	Ver
7*	13.0360GHz	47.71	-5.71	42.00	54.00	-12.00	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2480	
Note:	



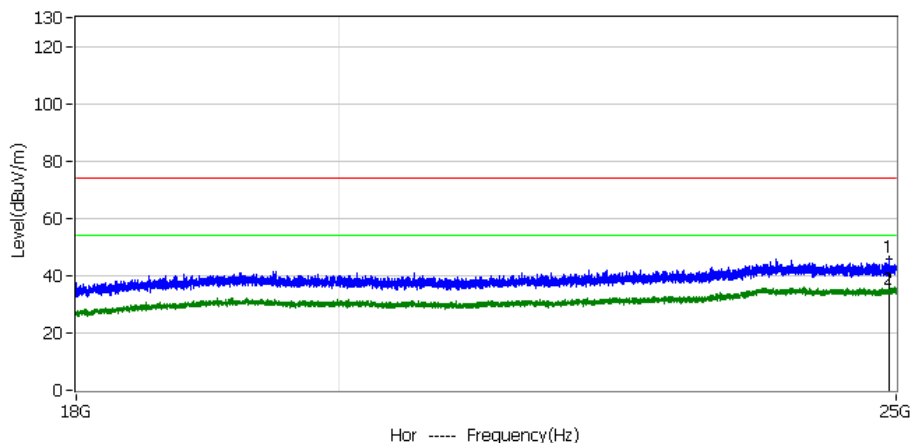
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4811GHz	85.90	-8.72	77.18	/	/	PK	Hor
2*	4.0281GHz	54.35	-3.23	51.12	74.00	-22.88	PK	Hor
3*	5.9194GHz	59.18	-4.84	54.34	74.00	-19.66	PK	Hor
4*	8.8327GHz	59.86	-6.01	53.85	74.00	-20.15	PK	Hor
5*	4.0281GHz	45.43	-3.23	42.20	54.00	-11.80	AV	Hor
6*	5.9194GHz	47.64	-4.84	42.80	54.00	-11.20	AV	Hor
7*	8.8327GHz	49.51	-6.01	43.50	54.00	-10.50	AV	Hor



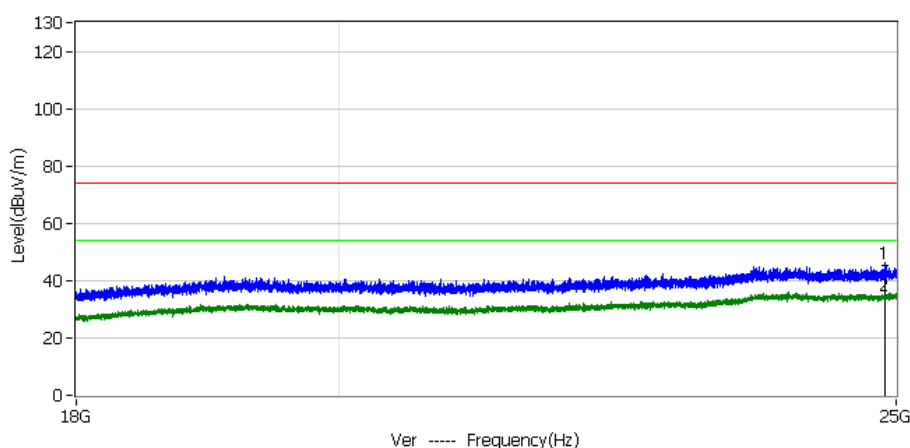
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4811GHz	91.55	-8.72	82.83	/	/	PK	Ver
2*	3.8879GHz	54.69	-2.68	52.01	74.00	-21.99	PK	Ver
3*	5.9619GHz	58.18	-4.97	53.21	74.00	-20.79	PK	Ver
4*	10.5540GHz	59.05	-5.28	53.77	74.00	-20.23	PK	Ver
5*	3.8879GHz	44.98	-2.68	42.30	54.00	-11.70	AV	Ver
6*	5.9619GHz	48.27	-4.97	43.30	54.00	-10.70	AV	Ver
7*	10.5540GHz	47.68	-5.28	42.40	54.00	-11.60	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2402	
Note:	



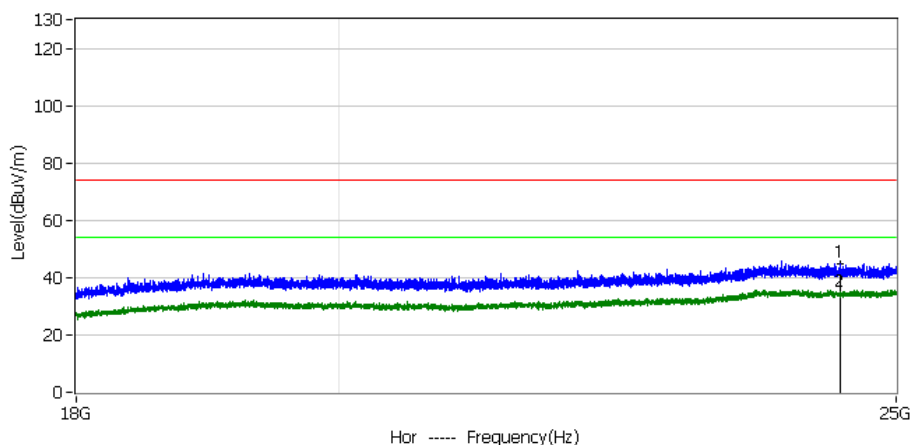
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.933GHz	33.71	11.85	45.56	74.00	-28.44	PK	Hor
2*	24.933GHz	22.85	11.85	34.70	54.00	-19.30	AV	Hor



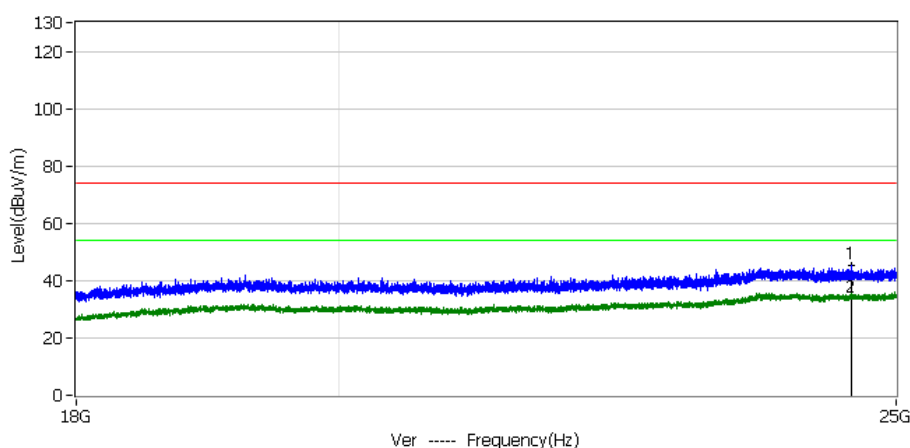
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.887GHz	33.38	11.83	45.21	74.00	-28.79	PK	Ver
2*	24.887GHz	22.37	11.83	34.20	54.00	-19.80	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2441	
Note:	



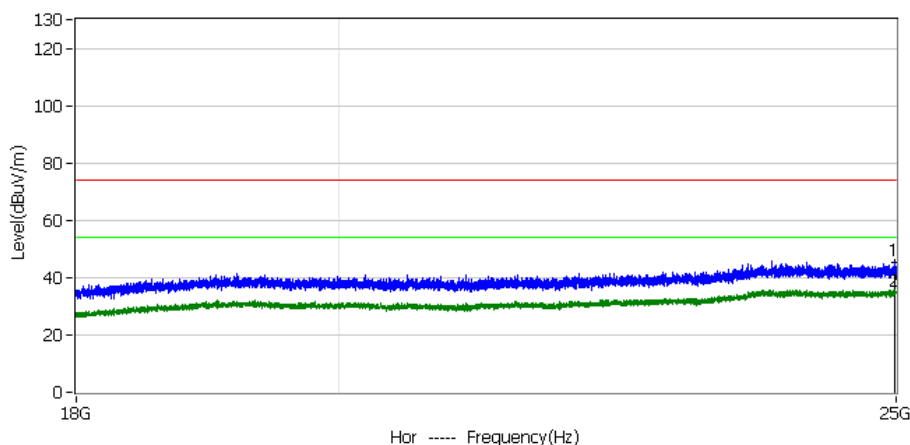
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.444GHz	33.47	11.51	44.98	74.00	-29.02	PK	Hor
2*	24.444GHz	23.29	11.51	34.80	54.00	-19.20	AV	Hor



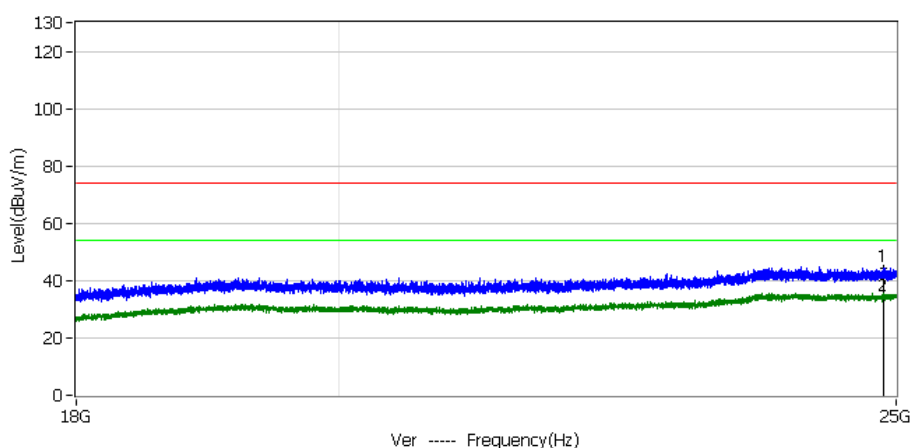
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.551GHz	33.59	11.60	45.19	74.00	-28.81	PK	Ver
2*	24.551GHz	22.20	11.60	33.80	54.00	-20.20	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2480	
Note:	



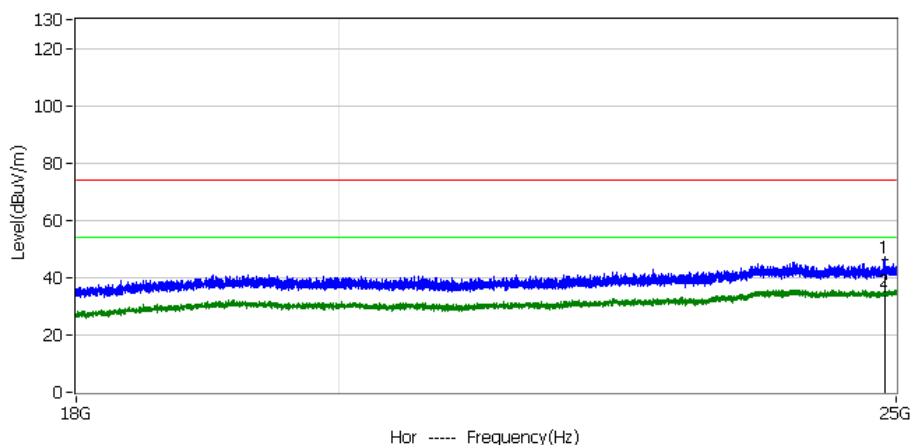
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.987GHz	33.27	11.88	45.15	74.00	-28.85	PK	Hor
2*	24.987GHz	22.72	11.88	34.60	54.00	-19.40	AV	Hor



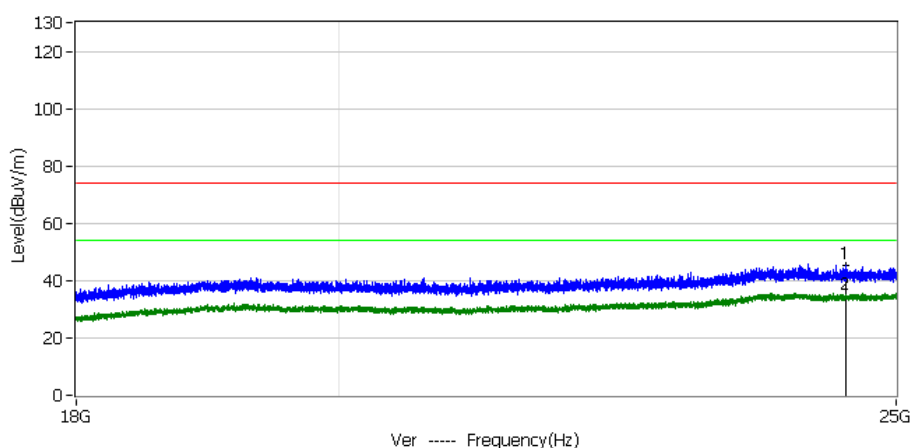
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.879GHz	32.66	11.83	44.49	74.00	-29.51	PK	Ver
2*	24.879GHz	22.07	11.83	33.90	54.00	-20.10	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2402	
Note:	



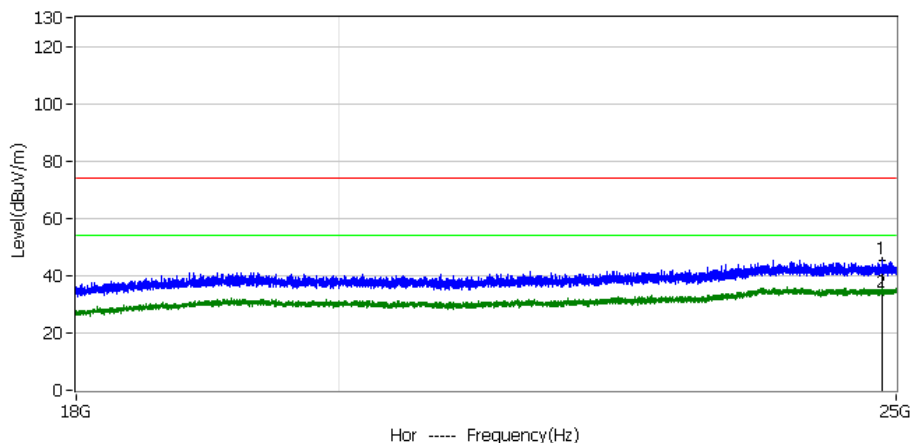
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.888GHz	34.30	11.83	46.13	74.00	-27.87	PK	Hor
2*	24.888GHz	22.67	11.83	34.50	54.00	-19.50	AV	Hor



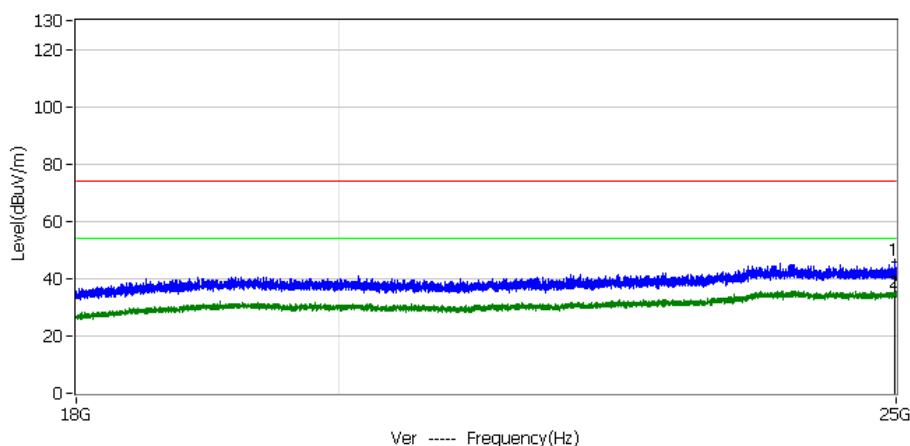
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.502GHz	33.66	11.56	45.22	74.00	-28.78	PK	Ver
2*	24.502GHz	23.24	11.56	34.80	54.00	-19.20	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2441	
Note:	



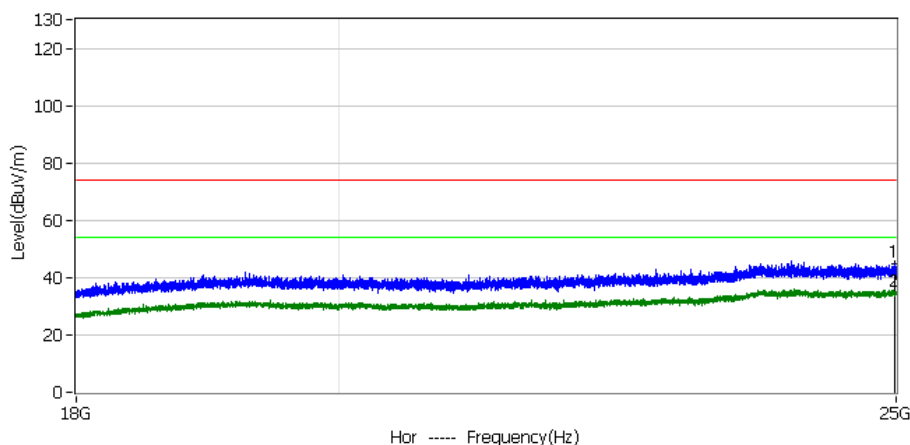
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.867GHz	33.23	11.83	45.06	74.00	-28.94	PK	Hor
2*	24.867GHz	21.87	11.83	33.70	54.00	-20.30	AV	Hor



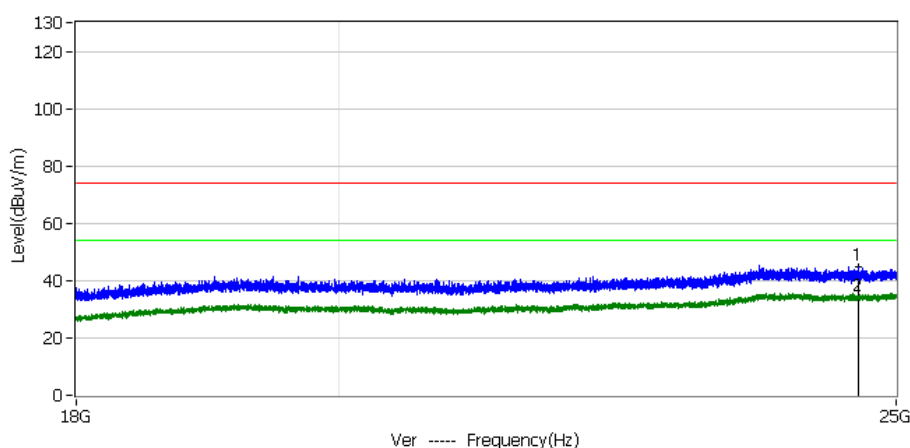
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.990GHz	33.77	11.88	45.65	74.00	-28.35	PK	Ver
2*	24.990GHz	22.72	11.88	34.60	54.00	-19.40	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.983GHz	33.07	11.88	44.95	74.00	-29.05	PK	Hor
2*	24.983GHz	22.82	11.88	34.70	54.00	-19.30	AV	Hor

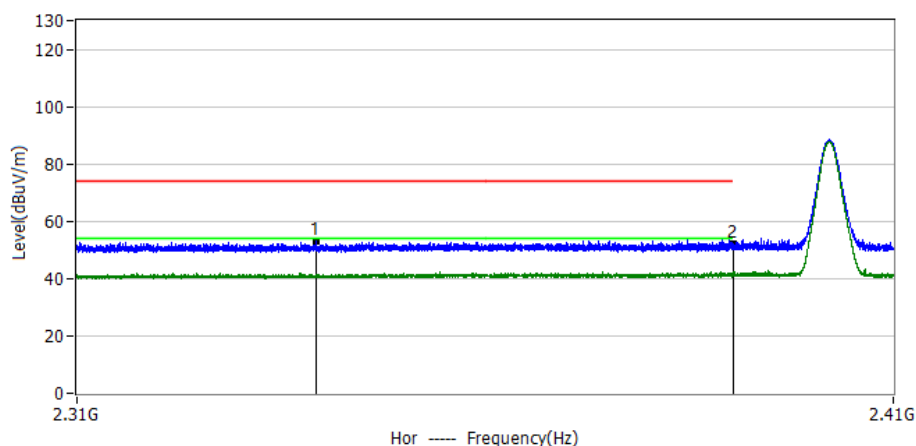


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.627GHz	33.11	11.67	44.78	74.00	-29.22	PK	Ver
2*	24.627GHz	22.23	11.67	33.90	54.00	-20.10	AV	Ver

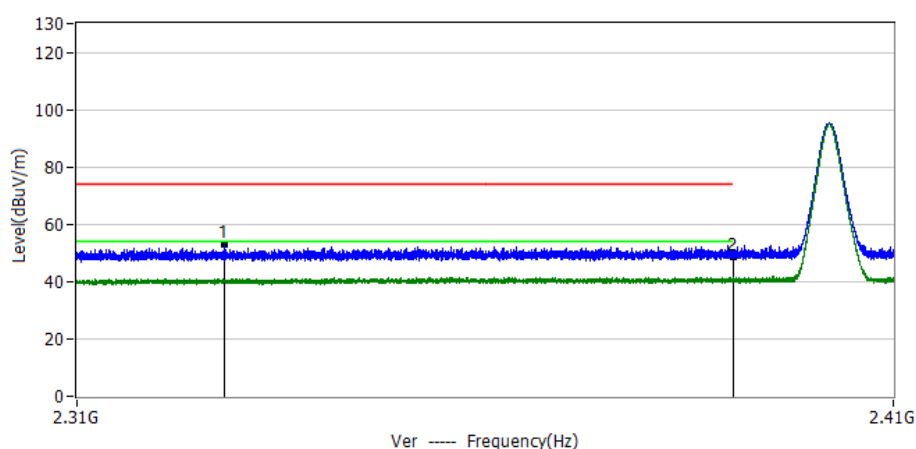


3.2.8 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2402	
Note:	



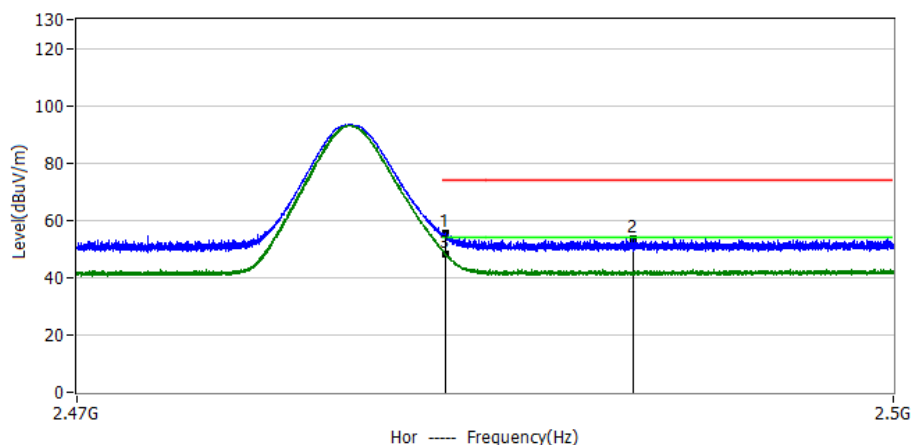
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2338.8000	17.73	35.32	53.05	74.00	-20.95	PK	Hor
2*	2390.0000	16.67	35.63	52.30	74.00	-21.70	PK	Hor



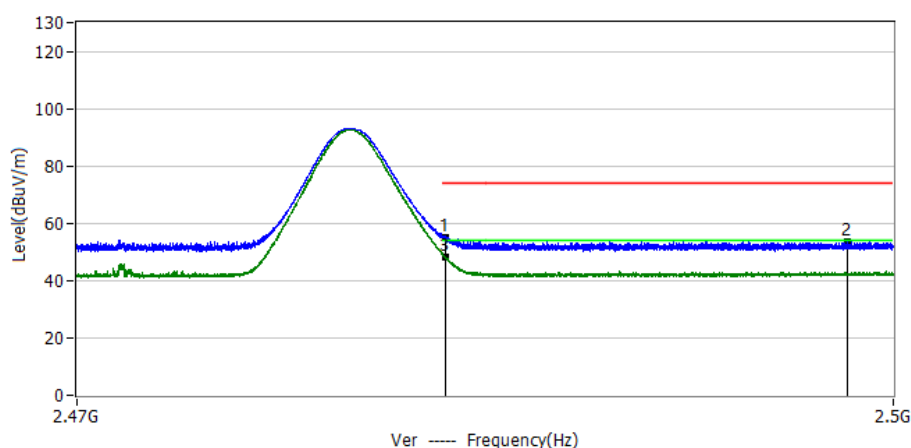
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2327.7000	17.66	35.24	52.90	74.00	-21.10	PK	Ver
2*	2390.0000	13.27	35.63	48.90	74.00	-25.10	PK	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: DH5 2480	
Note:	



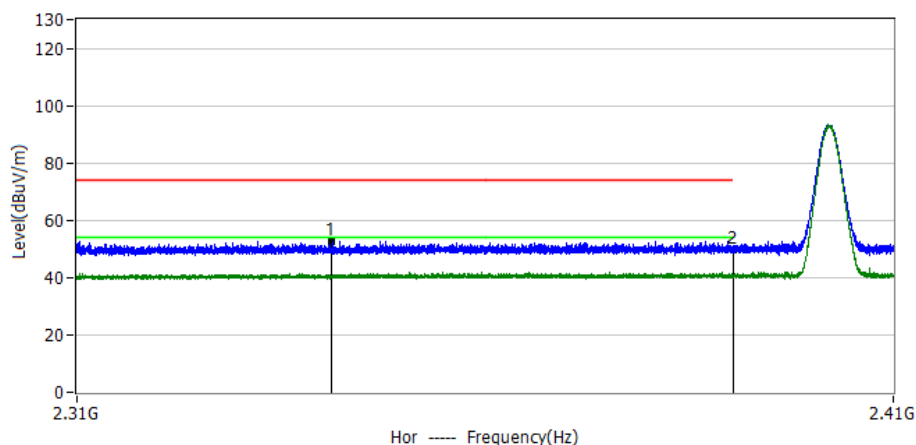
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	18.94	36.36	55.30	74.00	-18.70	PK	Hor
2*	2490.4000	17.12	36.44	53.56	74.00	-20.44	PK	Hor
3*	2483.5000	11.84	36.36	48.20	54.00	-5.80	AV	Hor



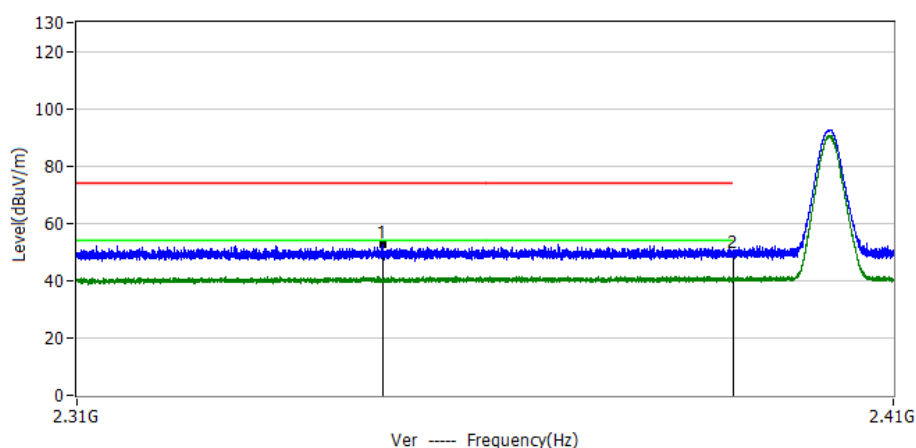
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	18.84	36.36	55.20	74.00	-18.80	PK	Ver
2*	2498.3000	16.90	36.54	53.44	74.00	-20.56	PK	Ver
3*	2483.5000	11.64	36.36	48.00	54.00	-6.00	AV	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2402	
Note:	



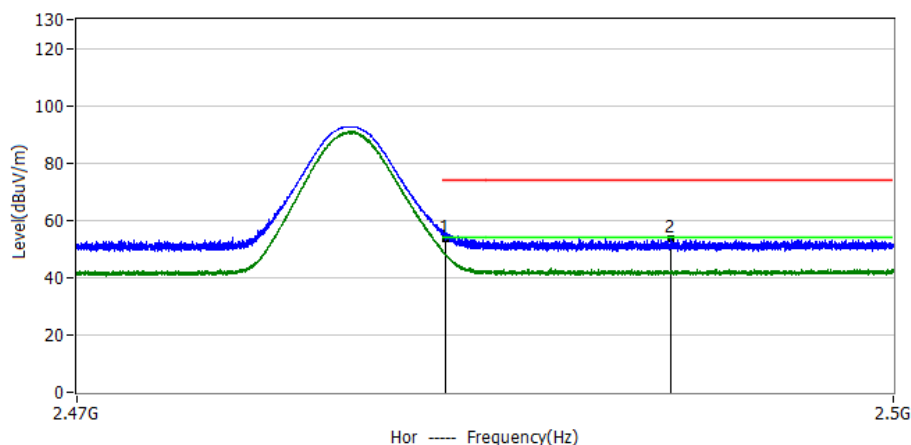
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2340.8000	17.19	35.34	52.53	74.00	-21.47	PK	Hor
2*	2390.0000	14.17	35.63	49.80	74.00	-24.20	PK	Hor



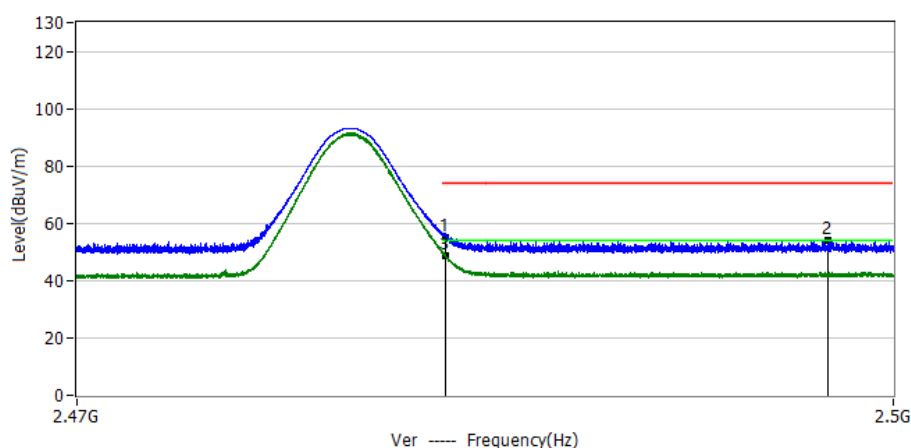
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2347.0000	17.06	35.38	52.44	74.00	-21.56	PK	Ver
2*	2390.0000	13.47	35.63	49.10	74.00	-24.90	PK	Ver



Project: LGT26H221	Test Engineer: zhangchengxiang
EUT: Smart Watch	Temperature: 26.2°C
M/N: 827N	Humidity: 65%RH
Test Voltage: Battery	Test Date: 2026-08-27
Test Mode: 2DH5 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	17.44	36.36	53.80	74.00	-20.20	PK	Hor
2*	2491.8000	17.01	36.46	53.47	74.00	-20.53	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	18.54	36.36	54.90	74.00	-19.10	PK	Ver
2*	2497.6000	17.42	36.53	53.95	74.00	-20.05	PK	Ver
3*	2483.5000	12.34	36.36	48.70	54.00	-5.30	AV	Ver



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

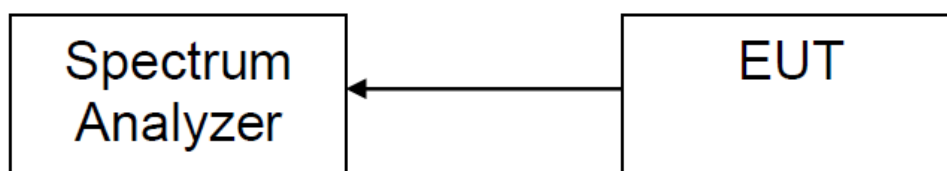
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz 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/Stop Frequency	Lower Band Edge: 2300– 2403 MHz Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; 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.



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

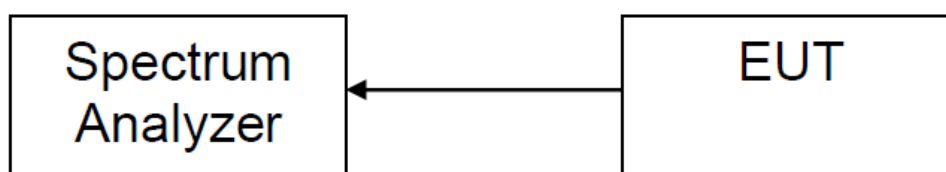
5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b.

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

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

For the measurement records, refer to the appendix I.



6. AVERAGE TIME OF OCCUPANCY

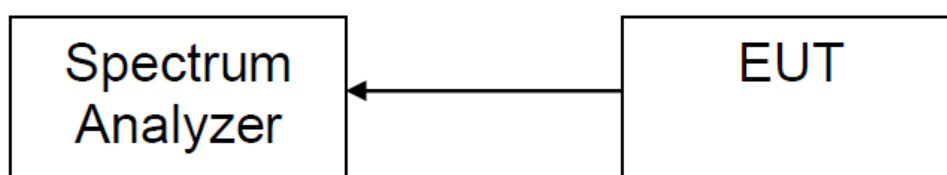
6.1 LIMIT

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

6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected transmission time per hop.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- 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 $3.37 \times 31.6 = 106.6$.
- 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 $5.06 \times 31.6 = 160$.
- 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 $10.12 \times 31.6 = 320$.

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.



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 LIMIT

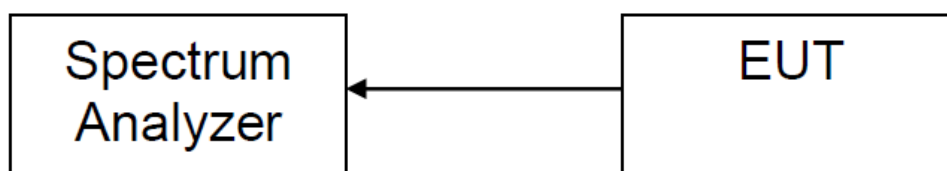
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that 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	300KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

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



8. BANDWIDTH TEST

8.1 LIMIT

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

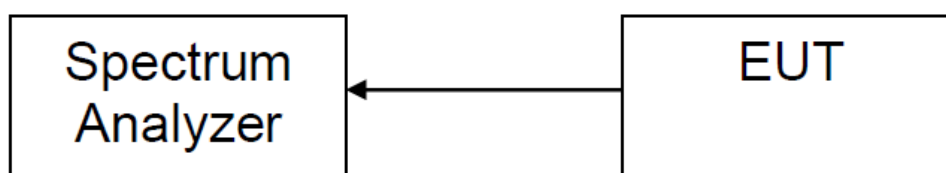
8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	1% to 5% OBW
VB	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
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.



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	2400-2483.5	PASS
		if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW(20.97dBm)		

9.2 TEST PROCEDURE

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

a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW $\geq$ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

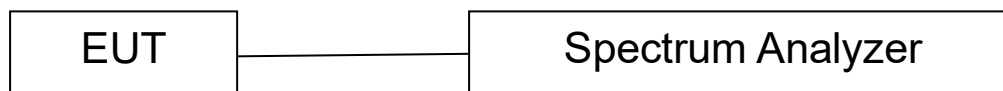
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power sensor may be used, where the power sensor and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power sensor method:

The maximum peak conducted output power may be measured using a broadband peak RF power sensor. The power sensor 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.



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 FPC Antenna. It comply with the standard requirement.



APPENDIX I - TEST RESULTS

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

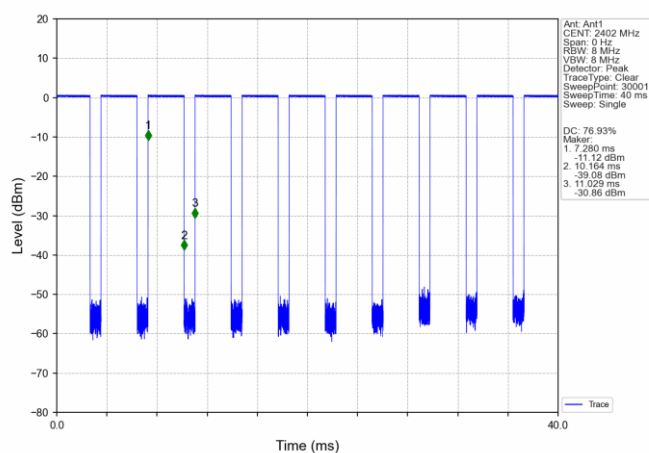
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.884	3.749	76.93	1.14	0.04
		2441	DH5	2.885	3.750	76.93	1.14	0.01
		2480	DH5	2.884	3.750	76.91	1.14	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.894	3.750	77.17	1.13	0.04
		2441	2DH5	2.894	3.751	77.15	1.13	0.03
		2480	2DH5	2.893	3.749	77.17	1.13	0.04



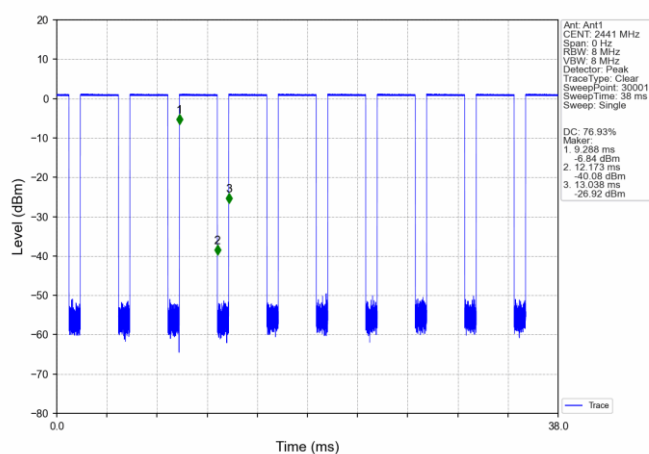
1.2 Test Graph

1.2.1 Ant1

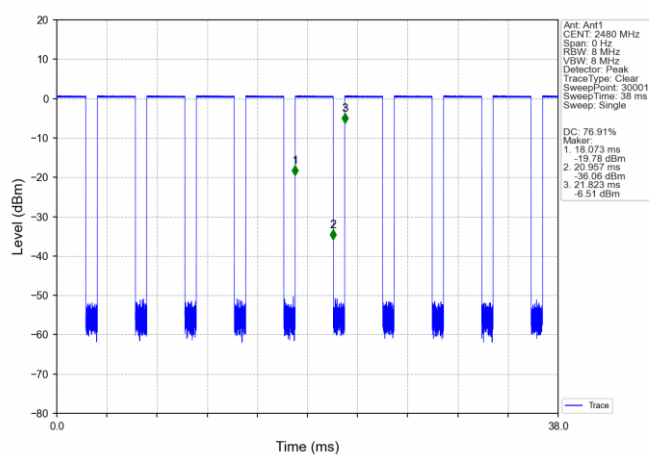
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

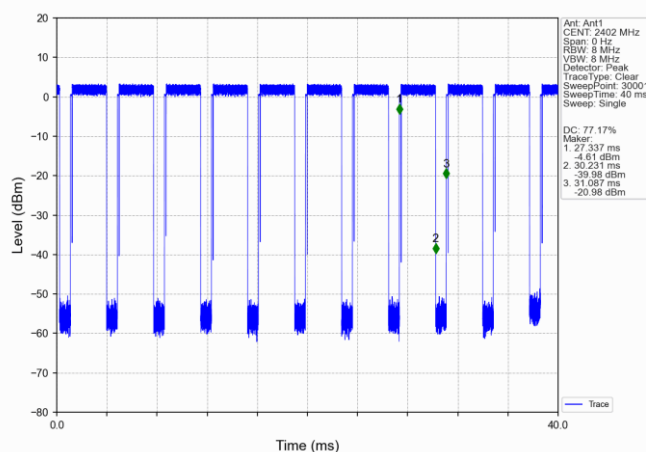


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

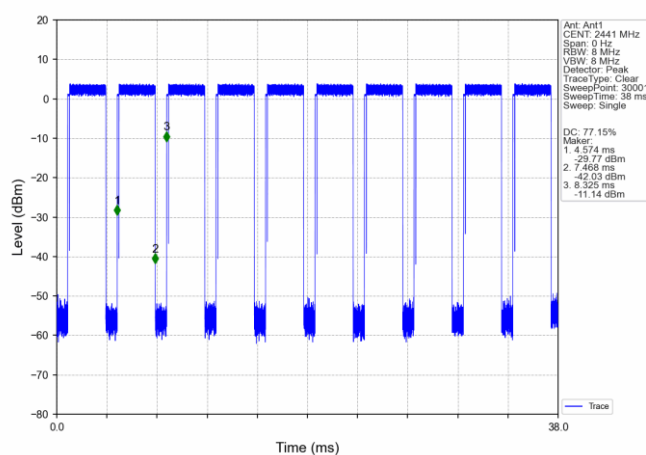




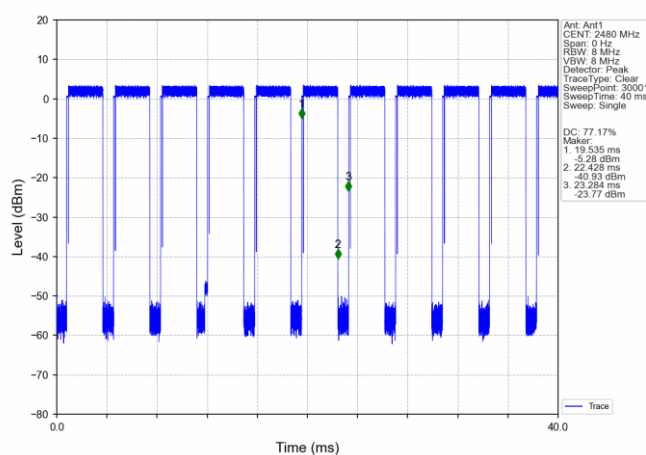
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.819	/	Pass
		2441	DH5	1	0.818	/	Pass
		2480	DH5	1	0.817	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.182	/	Pass
		2441	2DH5	1	1.183	/	Pass
		2480	2DH5	1	1.186	/	Pass

2.1.2 20dB BW

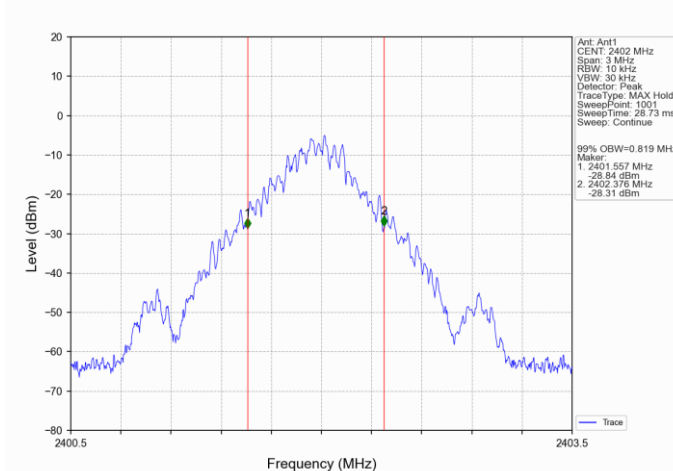
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.882	/	Pass
		2441	DH5	1	0.880	/	Pass
		2480	DH5	1	0.882	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.320	/	Pass
		2441	2DH5	1	1.320	/	Pass
		2480	2DH5	1	1.326	/	Pass



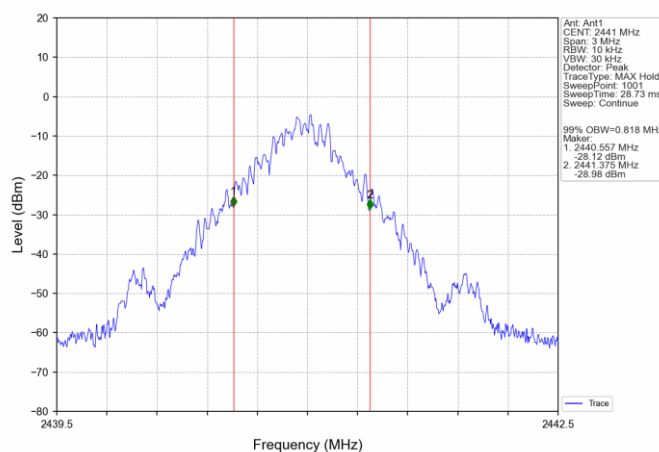
2.2 Test Graph

2.2.1 OBW

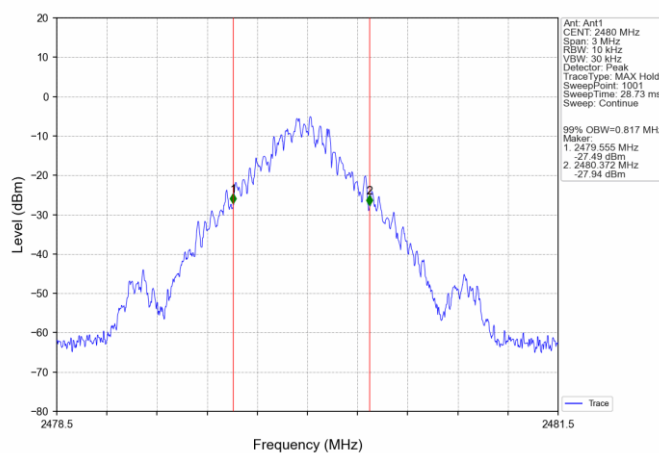
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

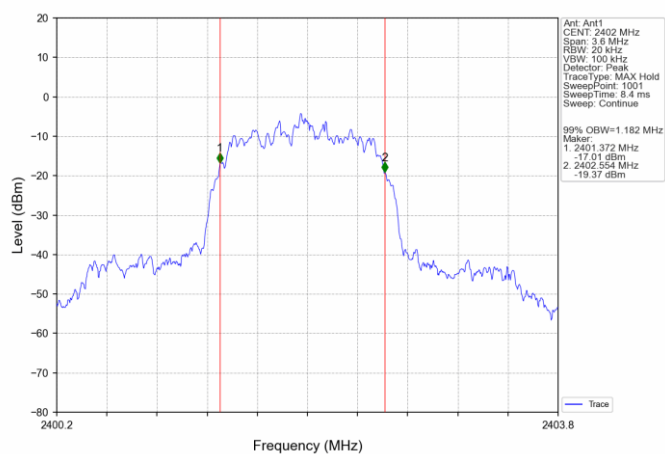


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

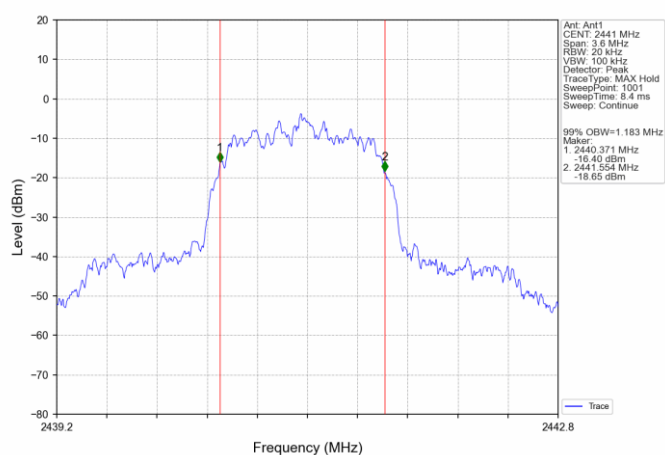




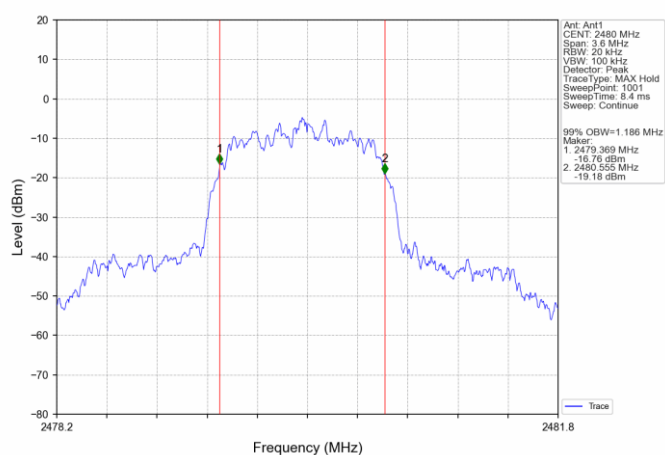
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



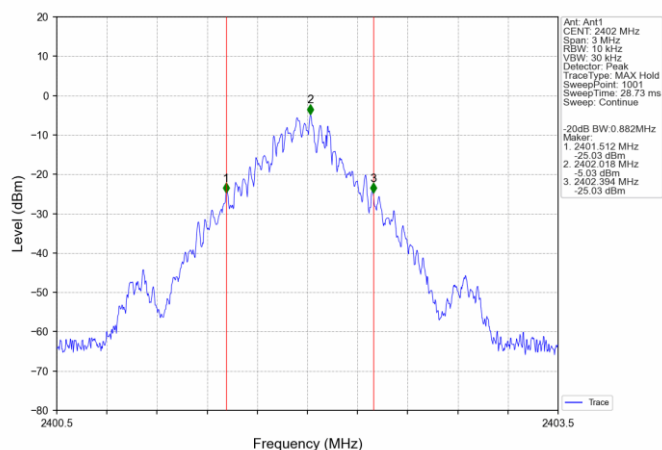
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



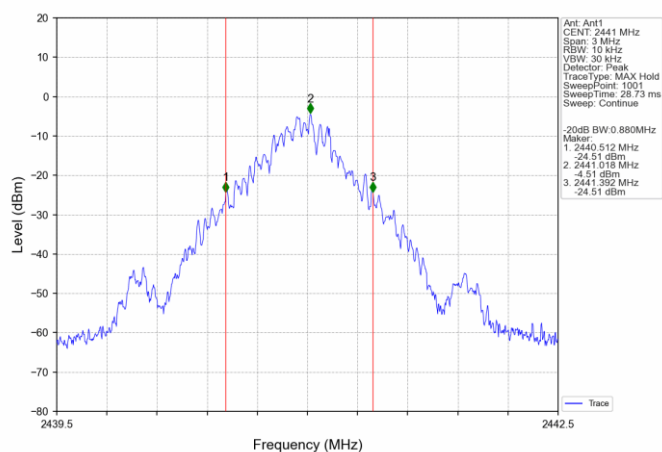


2.2.2 20dB BW

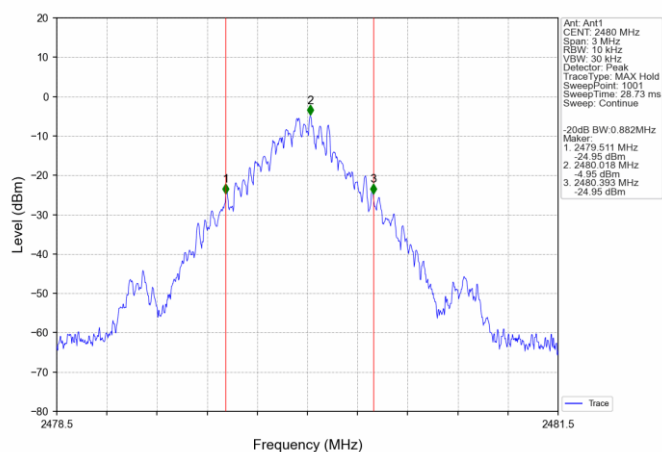
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

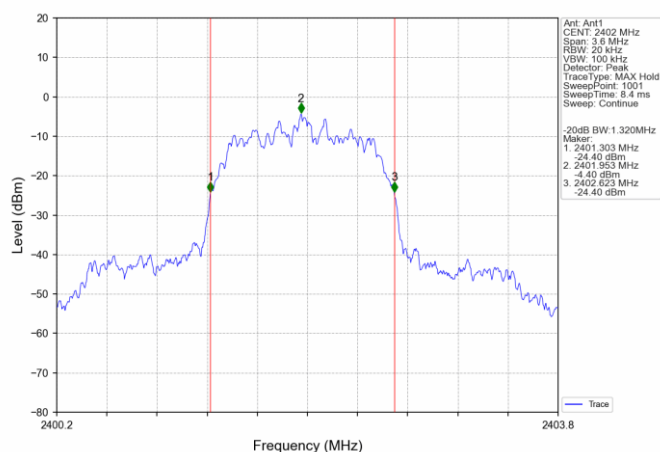


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

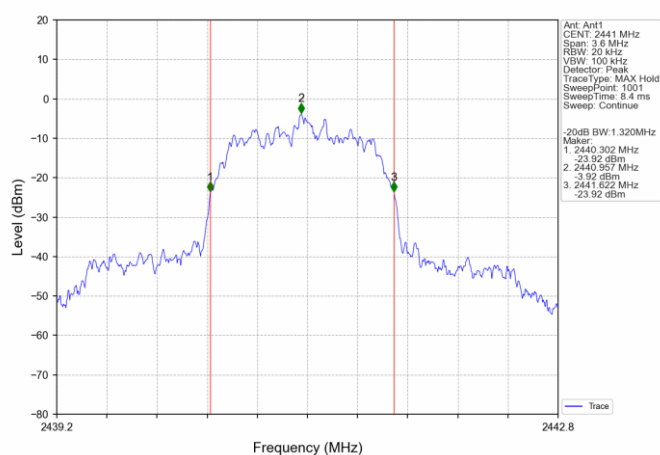




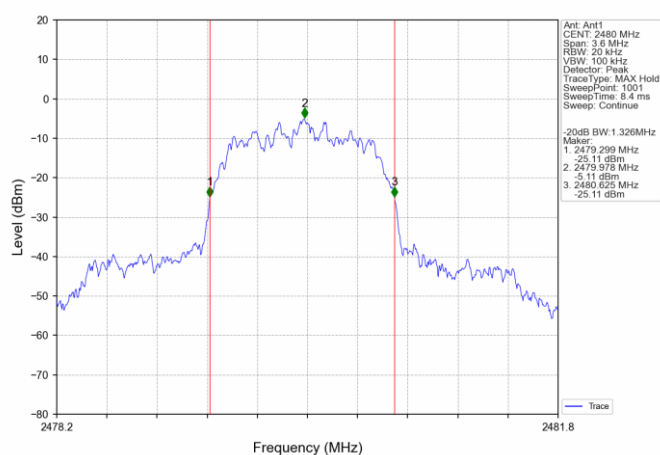
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Conducted Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.66	<=30	Pass
		2441	DH5	1.18	<=30	Pass
		2480	DH5	0.74	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.12	<=20.97	Pass
		2441	2DH5	3.67	<=20.97	Pass
		2480	2DH5	3.30	<=20.97	Pass

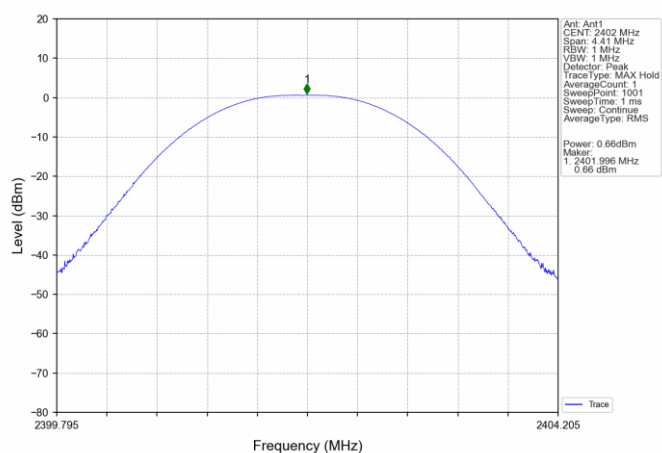
Note1: Antenna Gain: Ant1: -8.54dBi;



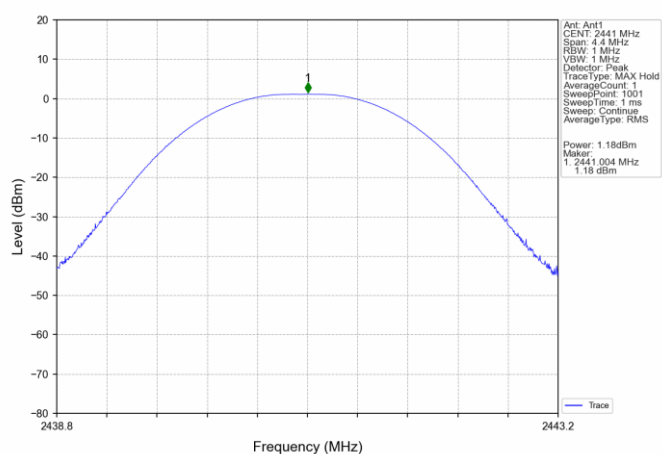
3.2 Test Graph

3.2.1 Power

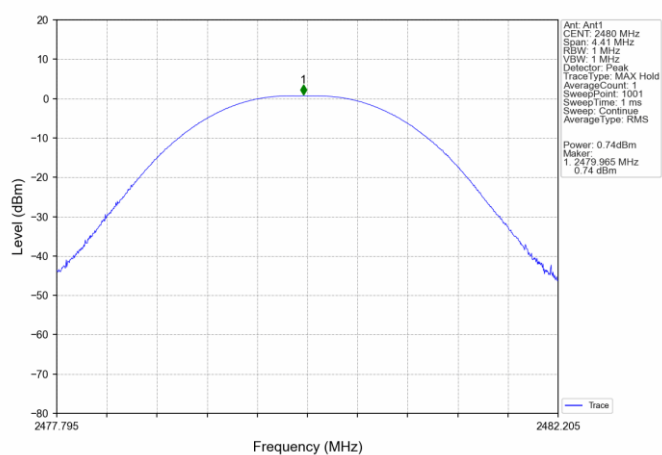
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

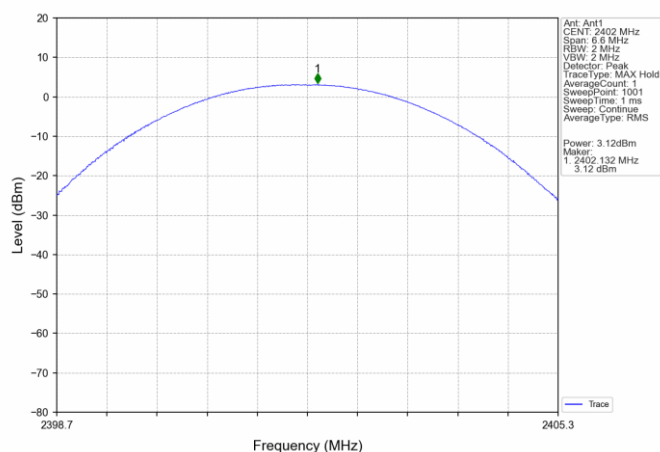


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

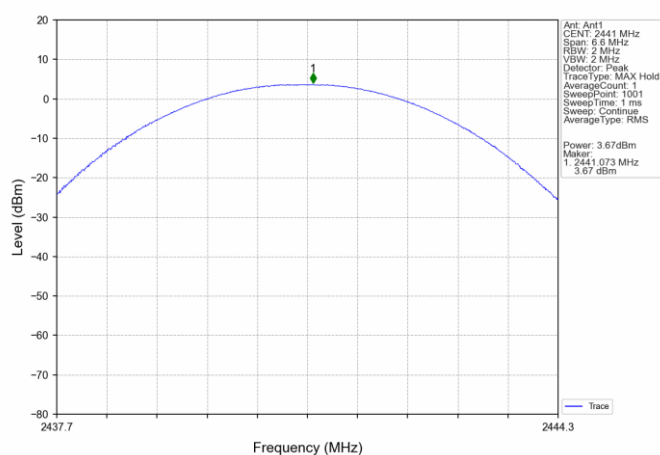




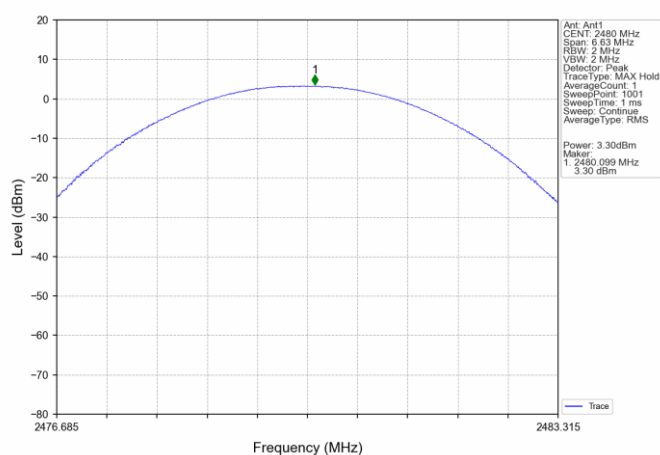
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV





4. Carrier Frequency Separation

4.1 Test Result

4.1.1 Ant1

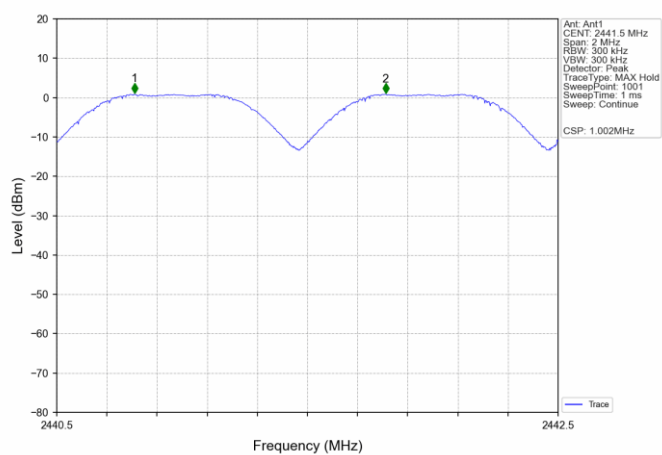
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	0.882	≥ 0.882	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.989	1.326	≥ 0.884	Pass



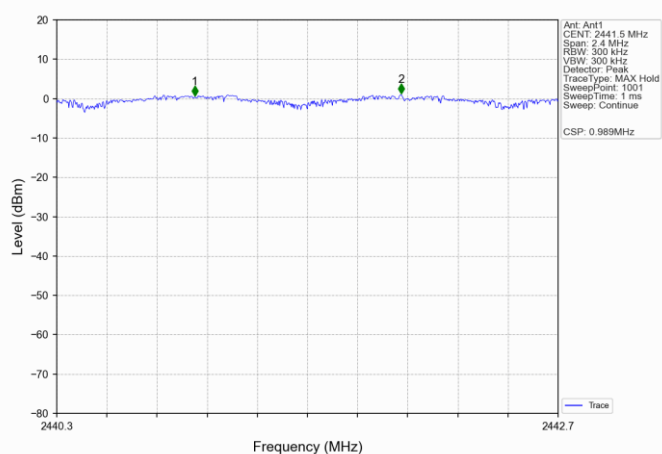
4.2 Test Graph

4.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

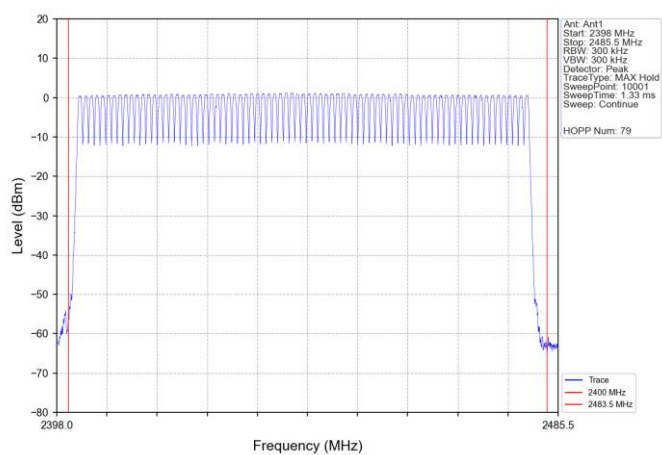
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass



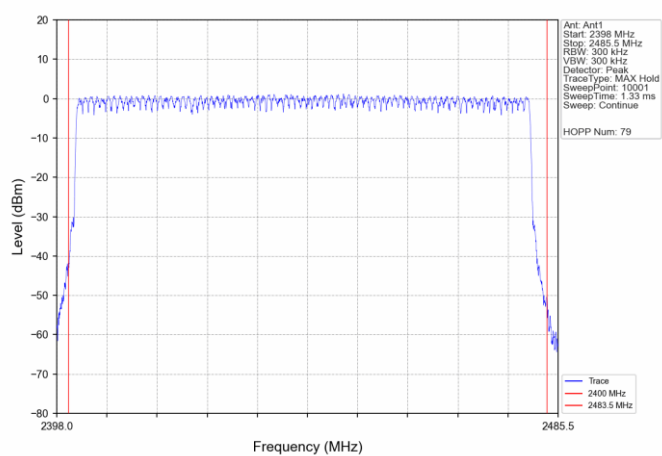
5.2 Test Graph

5.2.1 HoppNum

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

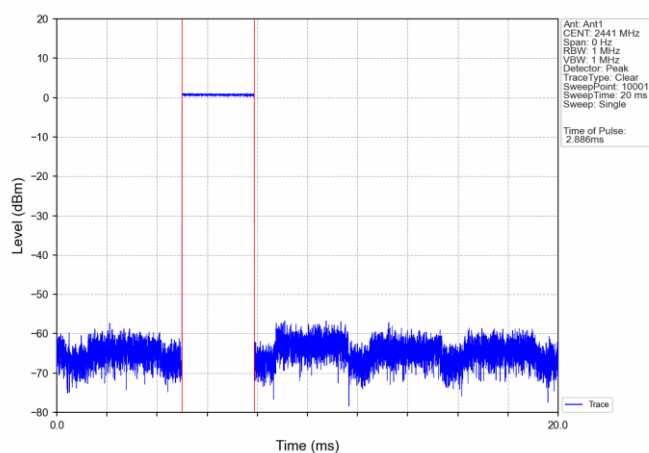
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.886	31.600	100	288.600	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.902	31.600	111	322.122	<=400	Pass



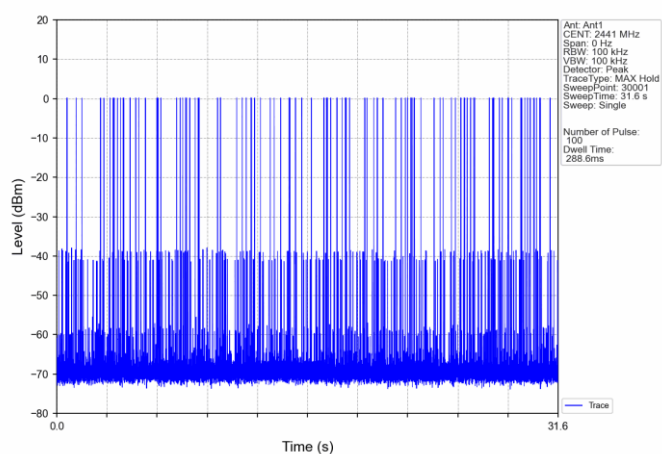
6.2 Test Graph

6.2.1 Ant1

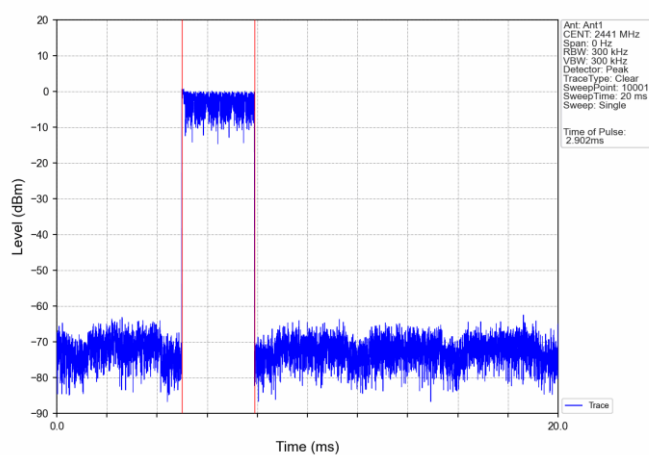
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

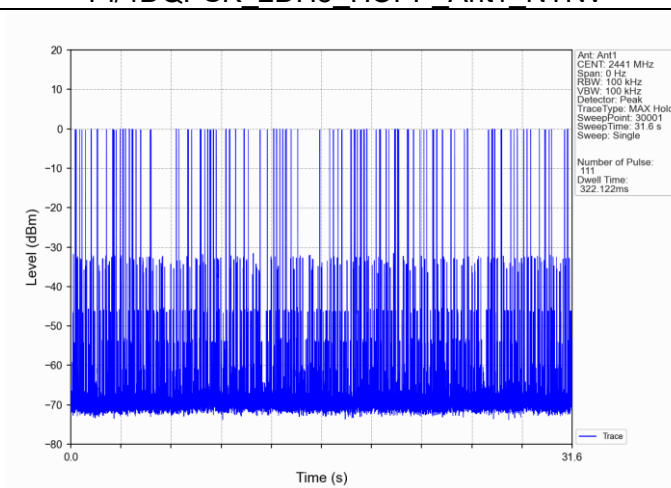


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.36
		2441	DH5	1	0.89
		2480	DH5	1	0.53
		HOPP	DH5	1	0.97
					0.97
Pi/4DQPSK	SISO	2402	2DH5	1	0.39
		2441	2DH5	1	0.97
		2480	2DH5	1	0.53
		HOPP	2DH5	1	0.93
					0.93

7.1.2 CSE

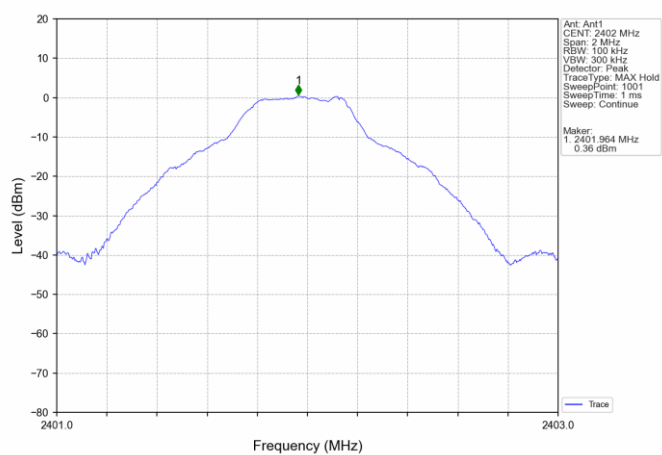
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.36	-19.64	Pass
		2441	DH5	1	0.89	-19.11	Pass
		2480	DH5	1	0.53	-19.47	Pass
		HOPP	DH5	1	0.97	-19.03	Pass
					0.97	-19.03	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.39	-19.61	Pass
		2441	2DH5	1	0.97	-19.03	Pass
		2480	2DH5	1	0.53	-19.47	Pass
		HOPP	2DH5	1	0.93	-19.07	Pass
					0.93	-19.07	Pass



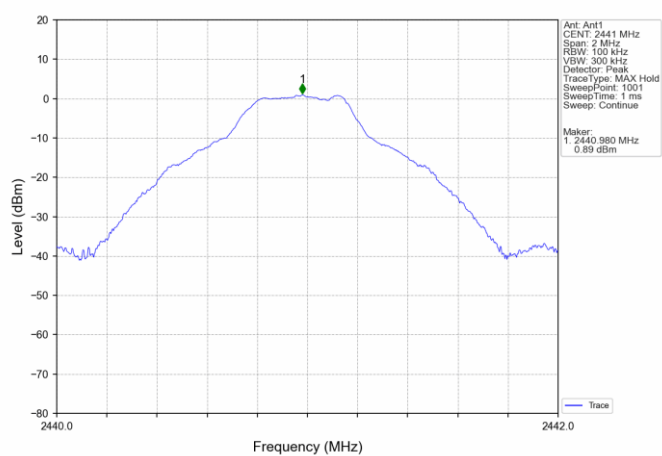
7.2 Test Graph

7.2.1 Ref

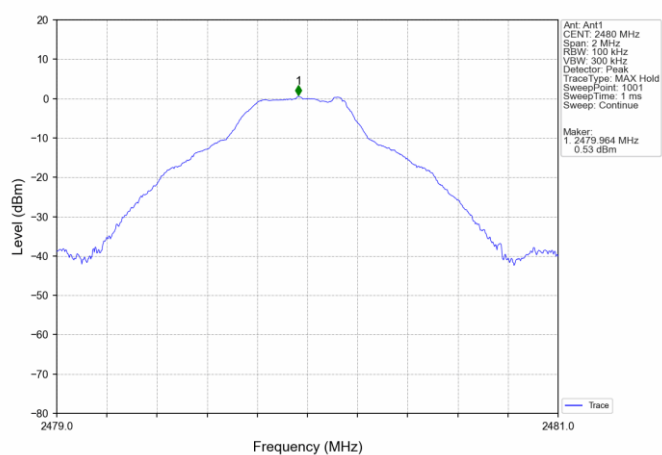
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

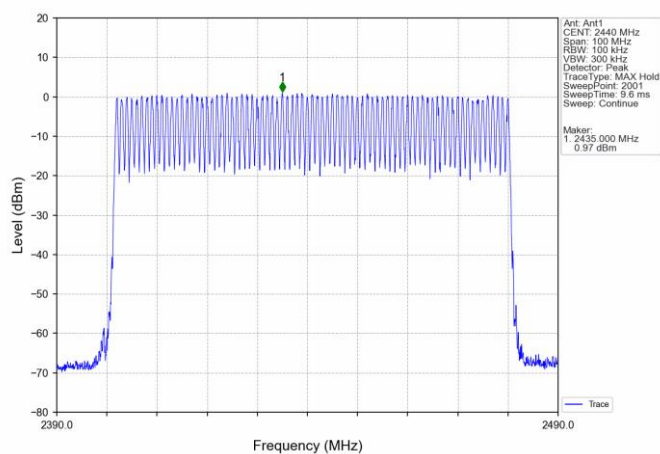


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

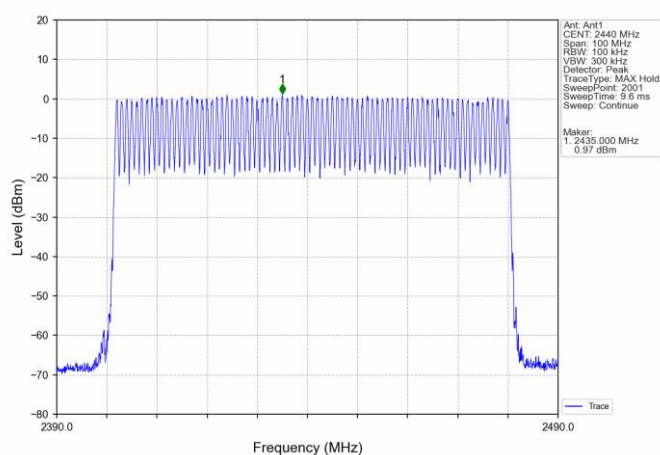




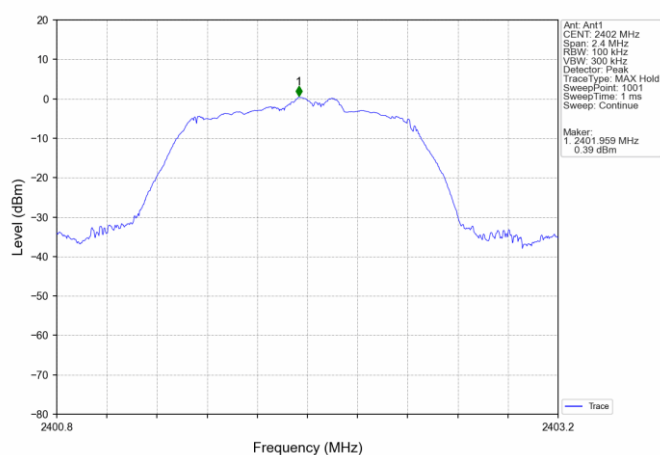
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

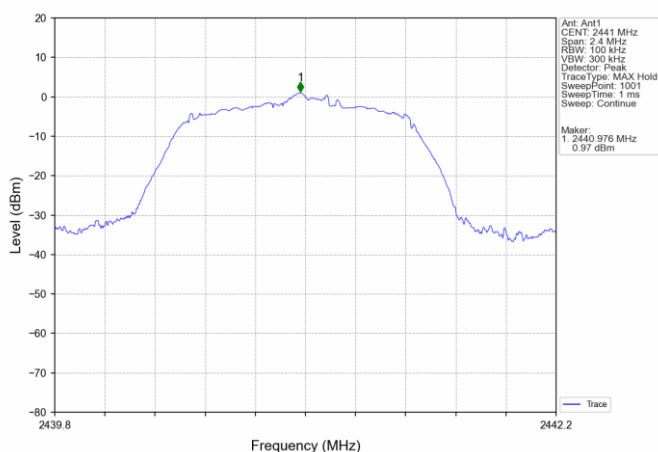


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

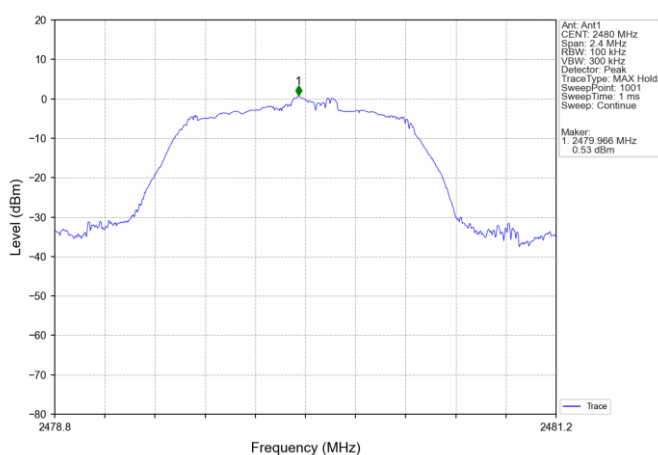




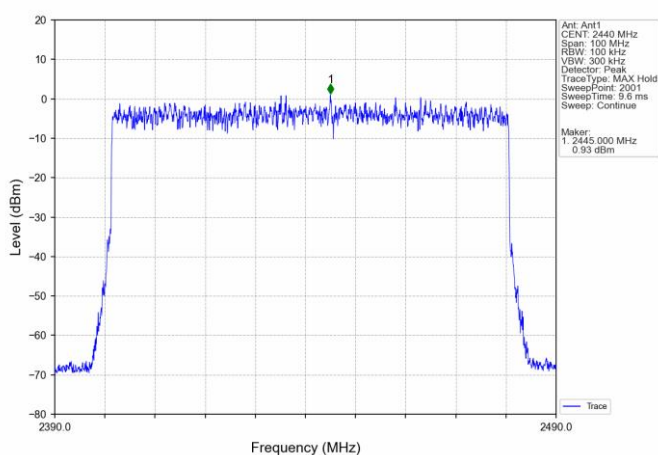
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

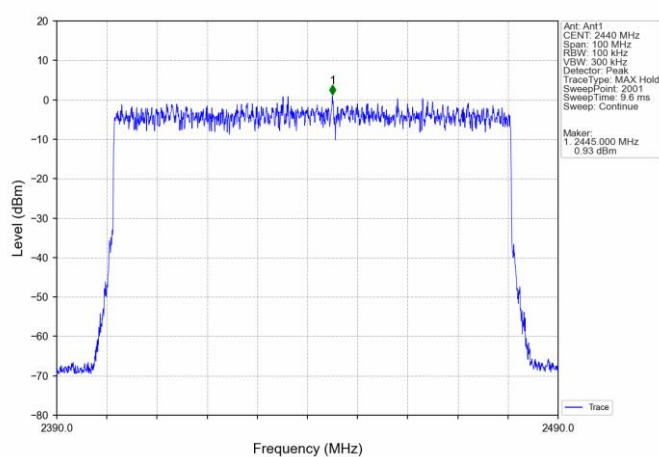


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





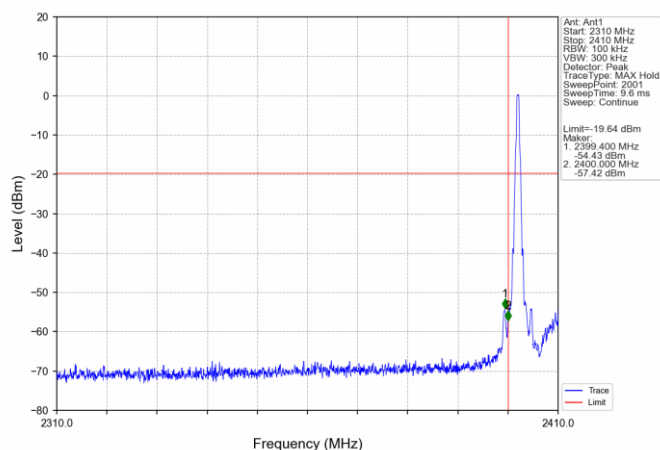
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



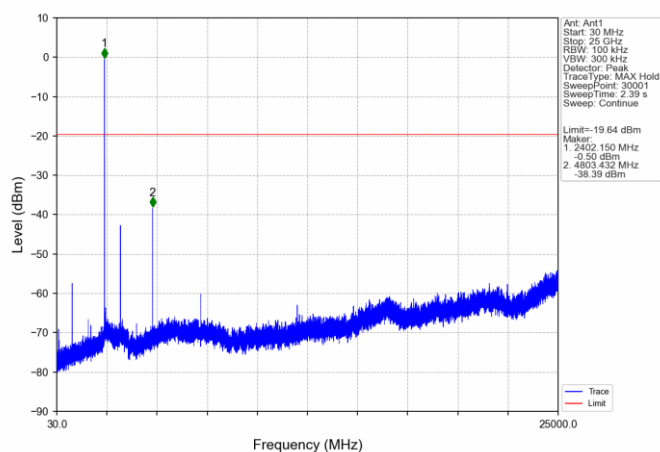


7.2.2 CSE

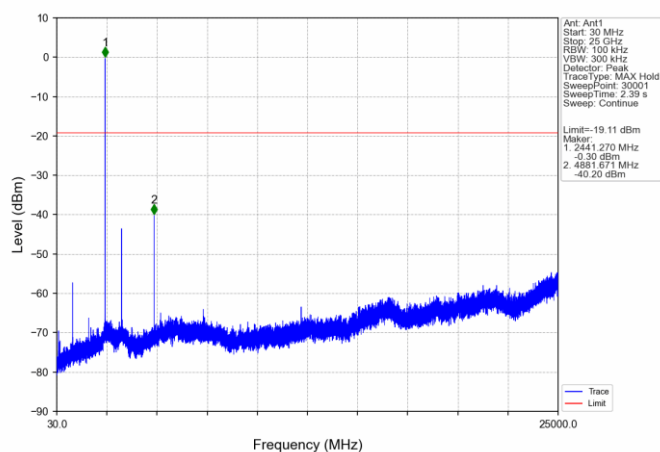
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_LCH_2402MHz_Ant1_NTNV

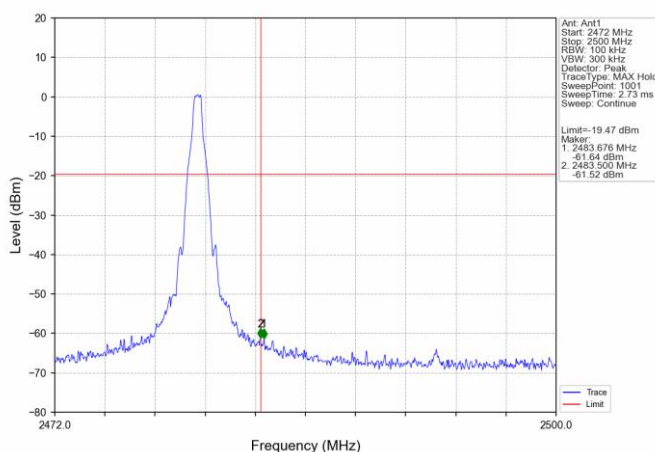


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

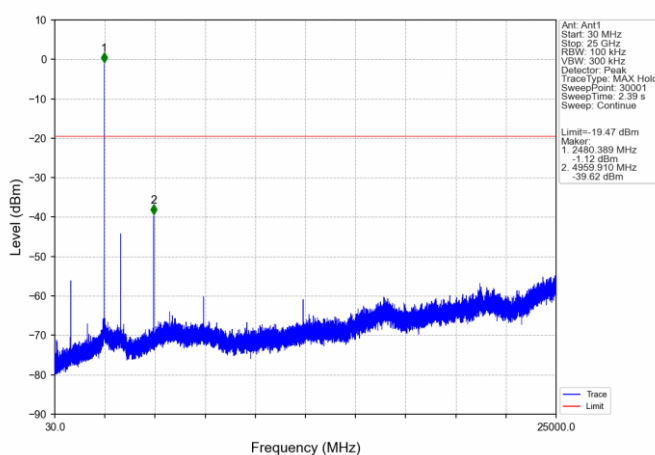




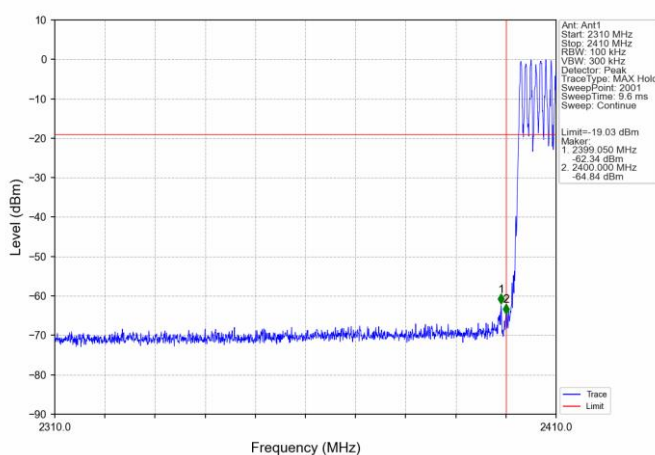
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

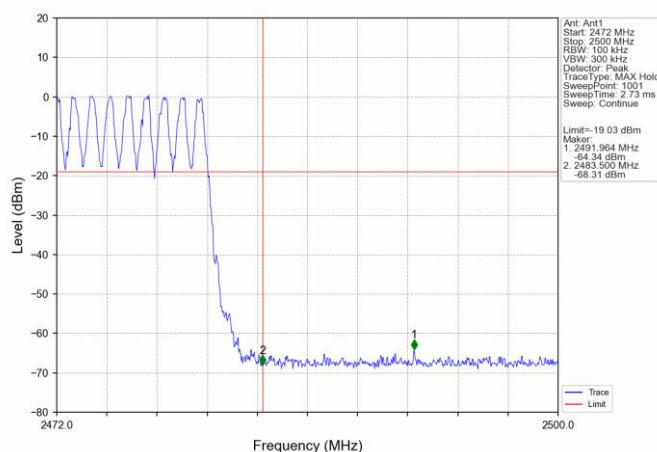


GFSK_DH5_HOPP_Ant1_NTNV

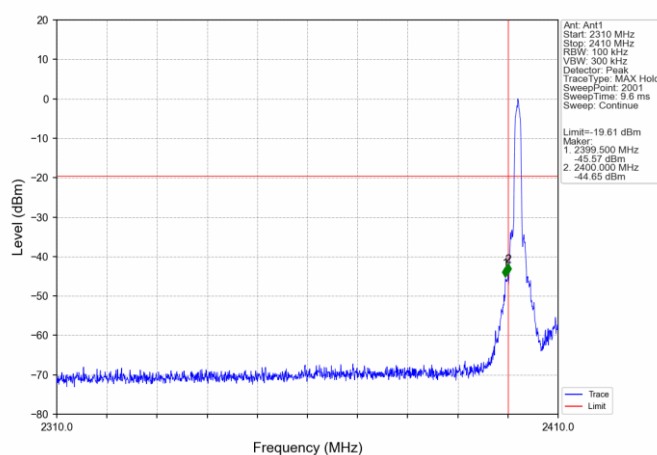




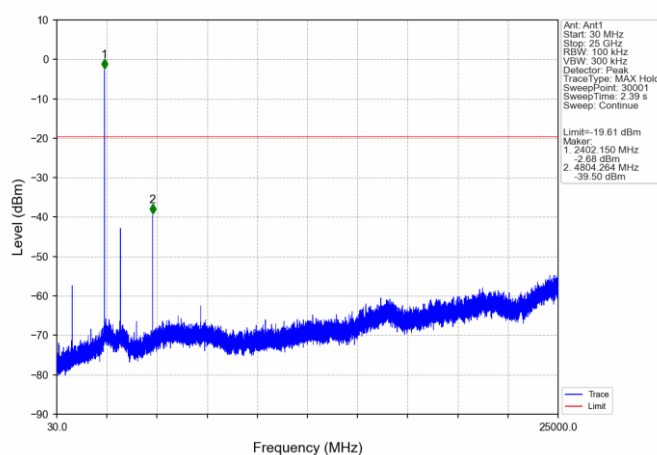
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

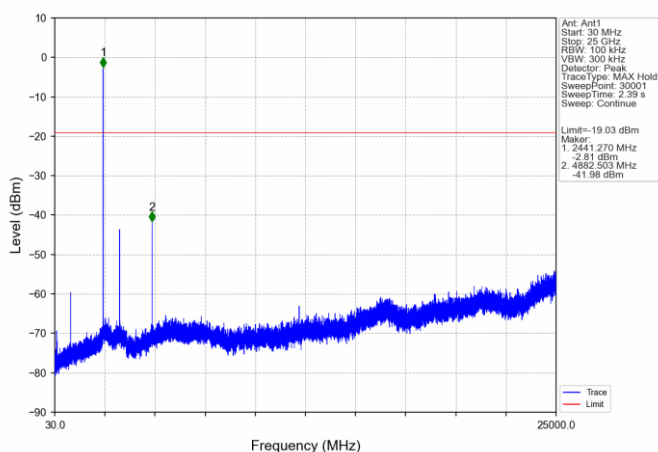


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

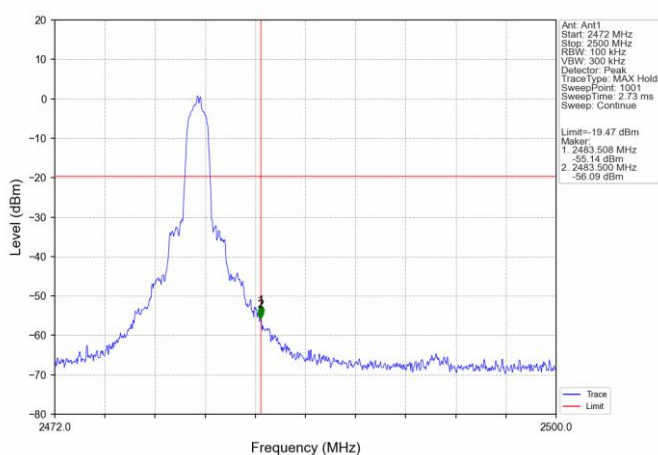




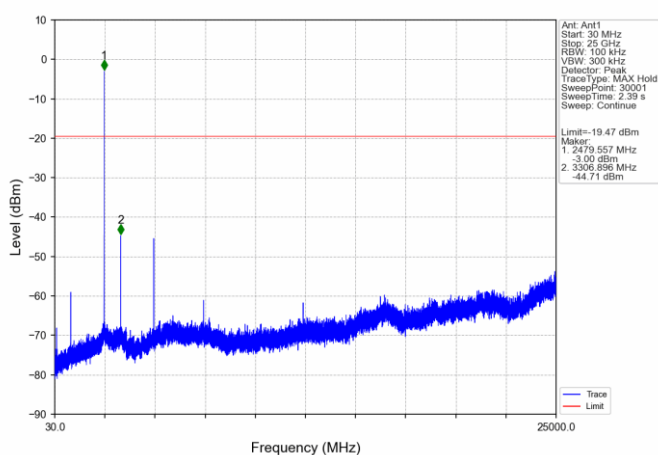
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

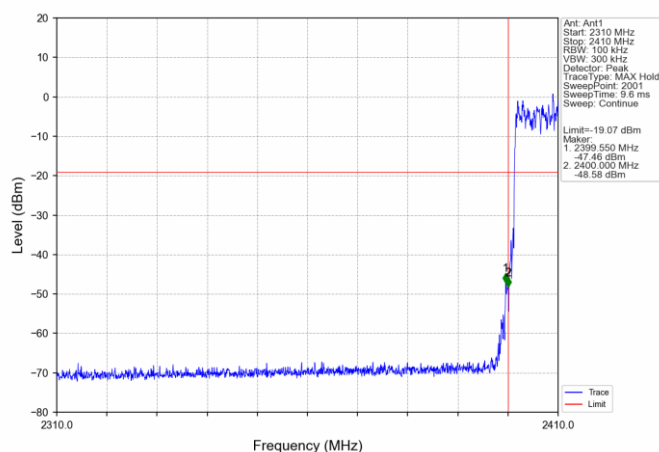


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

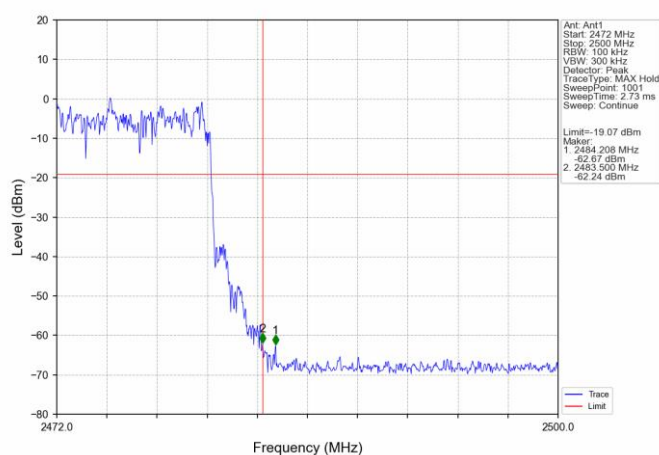




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV





APPENDIX II - MEASUREMENT PHOTOS

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

※※※※※END OF THE REPORT※※※※※