

Report No.: SEWM2307000261RG03

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TEST REPORT

Application No.: SEWM2307000261RG

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing,

China, 100085

EUT Description: Mobile Phone **Model No.:** 2312DRA50G

Trade Mark: Redmi

FCC ID: 2AFZZRA50G

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/07/31

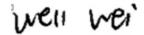
Date of Test: 2023/08/05 to 2023/08/22

Date of Issue: 2023/08/25

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei Wireless Laboratory Manager



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1 Version

Revision Record					
Version Chapter Date Modifier Remark					
01		2023/08/25		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.3	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10-2020 Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.2	Clause 4.6	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.3	Clause 4.7	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10-2020 Section 7.8.4	Clause 4.8	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.2	Clause 4.9	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 7.8.7.1	Clause 4.10	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10-2020 Section 6.10.5	Clause 4.12	PASS



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3 General Information

3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Mobile Phone			
Model No.:	2312DRA50G			
Trade Mark:	Redmi			
Hardware Version:	P2			
Software Version:	MIUI 14			
Power Supply:	Lithium Battery (3.91V)			
	RF Conducted	860949060049381		
IMEI:	DCE 9 AC nower line	IMEI1: 860949060030241		
	RSE & AC power line	IMEI2: 860949060030258		
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.			
Bluetooth version:	Bluetooth V5.2			
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Number of Channel:	79	79		
Hopping Channel Type:	Adaptive Frequency Hopp	ing systems		
Antenna Type:	IFA Antenna			
	-3.1dBi (Ant10)			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.0dB			
Remark:				



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	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	_	

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

NT: Normal Temperature

Environment Parameter	101.0 kPa Selected Values During Tests				
Relative Humidity	44-46 % RH Ambient				
Value	Temperature(°C) Voltage(Vdc)				
NTNV	NTNV 22~23 3.91				
Remark: NV: Normal Voltage					

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is IFA Antenna and no consideration of replacement.

The best case gain of the antenna is -3.1dBi (Ant10). *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

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4.2 Other requirements Frequency Hopping Spread Spectrum System **Hopping Sequence**

4.2.1 **Test Requirement:**

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

4.2.2 Conclusion

Standard Requirement:

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 hopsets 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.

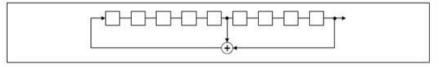
Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudo random 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: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16 75 1
	1 1		111
	111		111

Each frequency used equally on the average by each transmitter.



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According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz		
Limit:	Fraguency range (MUz)	Limit (d	BuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shi room. The EUT was connected to AC power source through a LISN 1 (Lin 			
	Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω line impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground referen plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to single LISN provided the rating of the LISN was not exceeded.			
	ground reference pla		on-metallic table 0.8m above the tanding arrangement, the EUT was nee plane.	
4) The test was performed with a vertical ground reference plather EUT shall be 0.4 m from the vertical ground reference possible vertical ground reference plane was bonded to the horizon reference plane. The LISN 1 was placed 0.8 m from the bounit under test and bonded to a ground reference plane for mounted on top of the ground reference plane. This distance the closest points of the LISN 1 and the EUT. All other unit and associated equipment was at least 0.8 m from the LISN 1 and the relative position.			ference plane. The horizontal ground m the boundary of the plane for LISNs is distance was between ther units of the EUT in the LISN 2.	
	 In order to find the maximum emission, the relative positions of equipm and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. 			



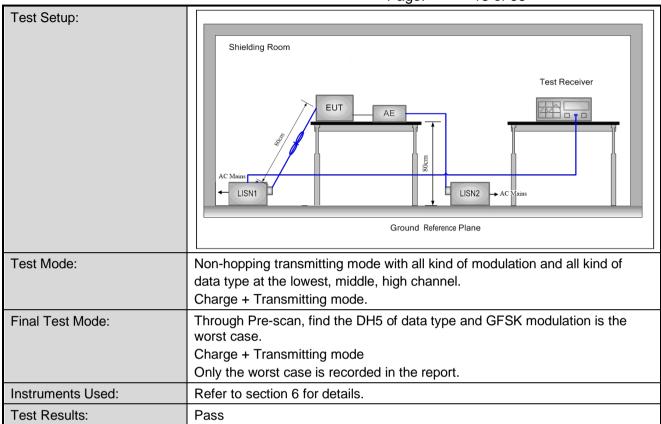
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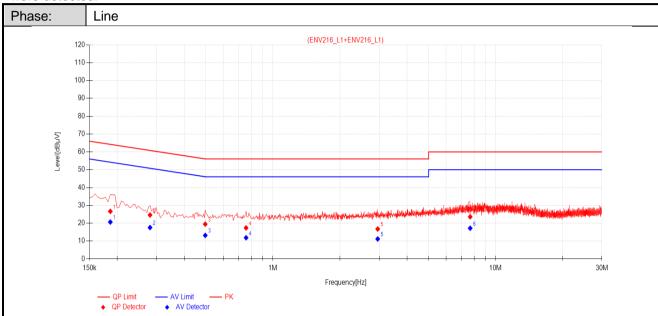
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1860	11.68	14.97	26.65	64.21	37.56	8.97	20.65	54.21	33.56	PASS
2	0.2805	11.62	12.98	24.60	60.80	36.20	5.94	17.56	50.80	33.24	PASS
3	0.4965	11.60	7.87	19.47	56.06	36.59	1.57	13.17	46.06	32.89	PASS
4	0.7575	11.68	5.70	17.38	56.00	38.62	0.17	11.85	46.00	34.15	PASS
5	2.9535	11.74	5.00	16.74	56.00	39.26	-0.58	11.16	46.00	34.84	PASS
6	7.6875	11.89	11.70	23.59	60.00	36.41	5.30	17.19	50.00	32.81	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value = Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]



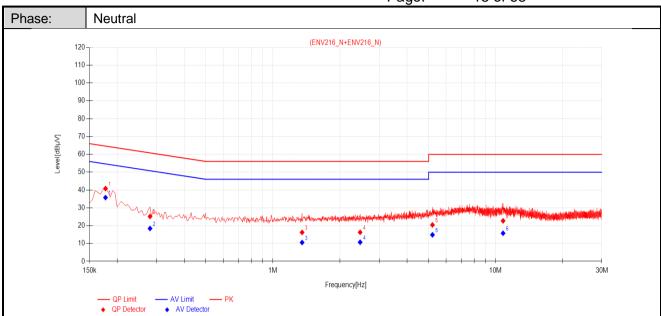
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Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	11.73	29.08	40.81	64.63	23.82	24.02	35.75	54.63	18.88	PASS
2	0.2805	11.62	13.54	25.16	60.80	35.64	6.80	18.42	50.80	32.38	PASS
3	1.3515	11.73	4.49	16.22	56.00	39.78	-1.15	10.58	46.00	35.42	PASS
4	2.4630	11.73	4.54	16.27	56.00	39.73	-1.01	10.72	46.00	35.28	PASS
5	5.2035	11.82	8.60	20.42	60.00	39.58	3.04	14.86	50.00	35.14	PASS
6	10.8015	11.88	10.82	22.70	60.00	37.30	3.88	15.76	50.00	34.24	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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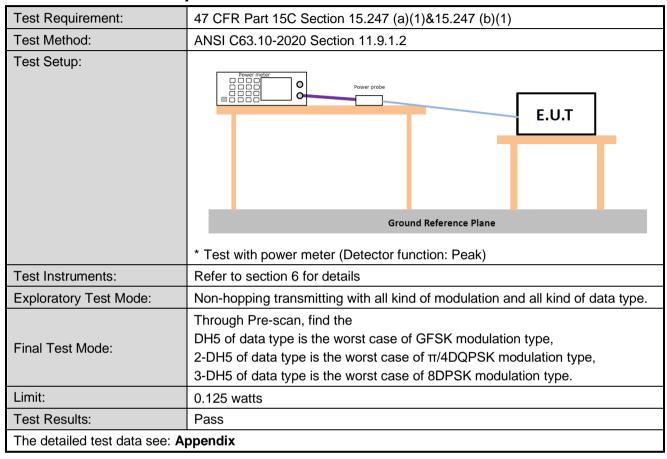
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4.4 Conducted Output Power





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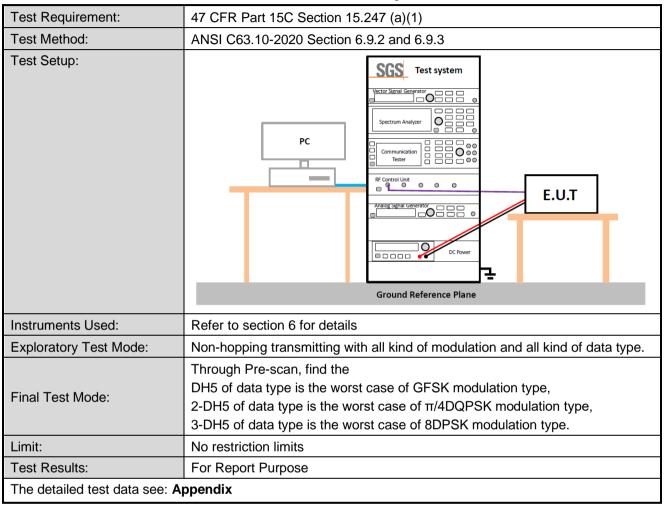
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10-2020 Section 7.8.2				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	2/3 of the 20dB bandwidth				
	Remark: the transmission power is less than 0.125W.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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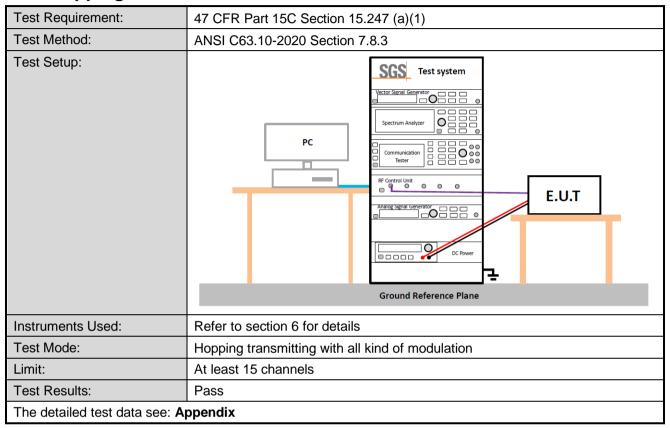
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4.7 Hopping Channel Number





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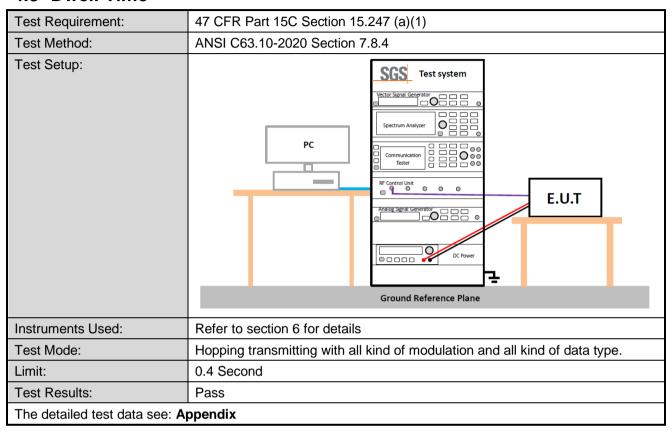
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4.8 Dwell Time





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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10-2020 Section 7.8.7.2					
Test Setup:	PC Spectrum Analyzer O O O O O O O O O					
Instruments Used:	Refer to section 6 for details					
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.					
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10-2020 Section 7.8.7.1				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
Instruments Used:	Refer to section 6 for details				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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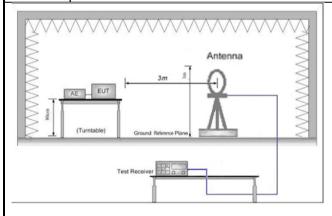
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4.11 Radiated Spurious Emissions

	-						
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Section	on 6.4 / 6.5 / 6.6					
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency Field strength Limit Remark Measurement distance (m)						
	0.009MHz-0.490MHz 2400/F(kHz)						
	0.490MHz-1.705MHz 24000/F(kHz) 3						
	1.705MHz-30MHz 30						
	30MHz-88MHz 100 40.0 Quasi-peak 3						
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz 500 54.0 Average 3						
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency						
	emissions is 20dB above the maximum permitted average emission limit						
	applicable to the equipme level radiated by the device		peak limit ap	oplies to the tot	al peak emission		

Test Setup:



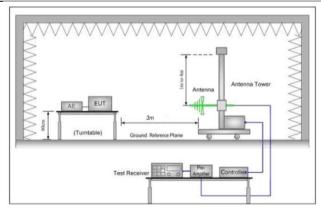


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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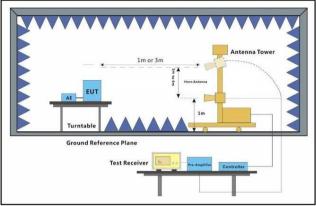


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
 - (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold

Measurements Below 1000MHz



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	1 age. 23 61 66
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
F	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
wode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan all channels, but only the worst case is
	recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	a see: Appendix



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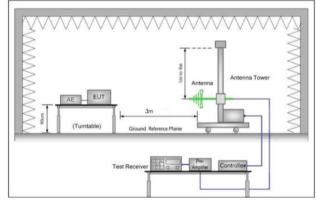
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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Section 6.10.5						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Limit:	Frequency	Limit (dBuV/m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
	Above IGHZ	74.0	Peak Value				

Test Setup:



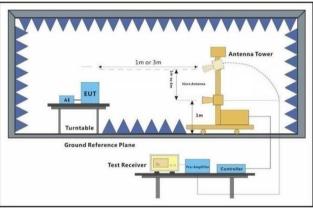


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit



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	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N₁*L₁ + N₂*L₂+N_{N-1}*L_{N-1} + N_N*L_N Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc. Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

o Mcast	wedsarement officertainty (30 / 0 confidence levels, K-2)						
No.	Item	Measurement Uncertainty					
1	Total RF power, conducted	±0.54dB					
2	RF power density, conducted	±1.03dB					
3	Spurious emissions, conducted	±0.54dB					
4	Radio Frequency	±1.0 %					
5	Duty Cycle	±0.37%					
6	Occupied Bandwidth	±1.0 %					
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)					
		± 3.13dB (9k to 30MHz)					
	Dodieted Englacies	± 4.88dB (30M to 1GHz)					
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)					
		± 4.77dB (Above 18GHz)					

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05		
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05		
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22		
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05		
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21		

Conduction Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07		
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR		



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PCF Task Custom							
RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04		
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11		
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12		
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22		
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant10	2402	0.951	2401.535	2402.486	
DH5	Ant10	2441	0.936	2440.541	2441.477	
DH5	Ant10	2480	0.945	2479.535	2480.480	
2DH5	Ant10	2402	1.269	2401.382	2402.651	For
2DH5	Ant10	2441	1.284	2440.364	2441.648	Report
2DH5	Ant10	2480	1.287	2479.361	2480.648	Purpose
3DH5	Ant10	2402	1.299	2401.349	2402.648	
3DH5	Ant10	2441	1.302	2440.346	2441.648	
3DH5	Ant10	2480	1.311	2479.343	2480.654	



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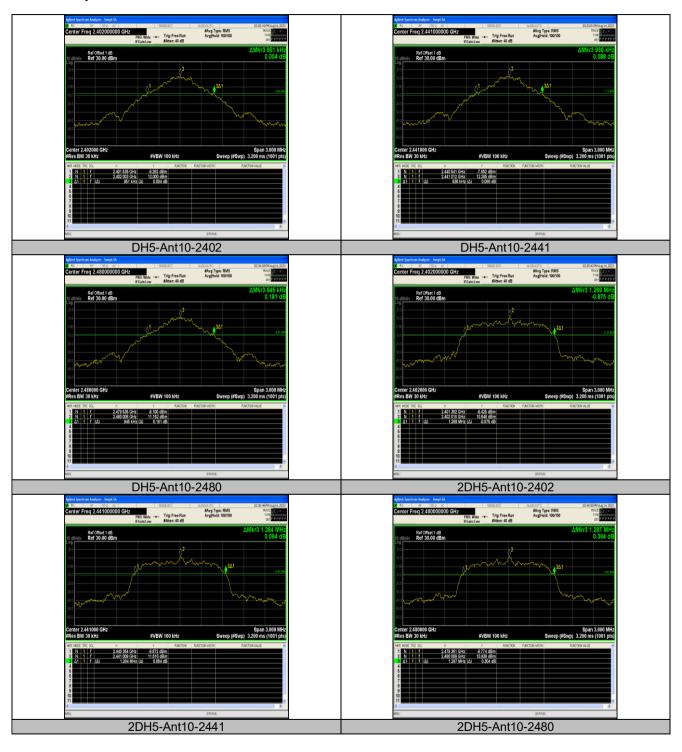
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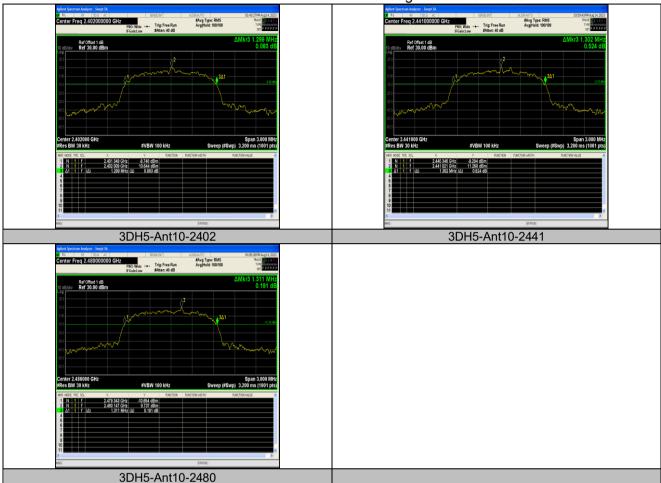
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant10	2402	0.83795	2401.5803	2402.4182	
DH5	Ant10	2441	0.82853	2440.5795	2441.4081	
DH5	Ant10	2480	0.83223	2479.5729	2480.4051	
2DH5	Ant10	2402	1.1773	2401.4066	2402.5839	For
2DH5	Ant10	2441	1.1778	2440.4060	2441.5838	Report
2DH5	Ant10	2480	1.1761	2479.4068	2480.5829	Purpose
3DH5	Ant10	2402	1.1789	2401.4088	2402.5877	
3DH5	Ant10	2441	1.1763	2440.4106	2441.5869	
3DH5	Ant10	2480	1.1974	2479.3941	2480.5915	



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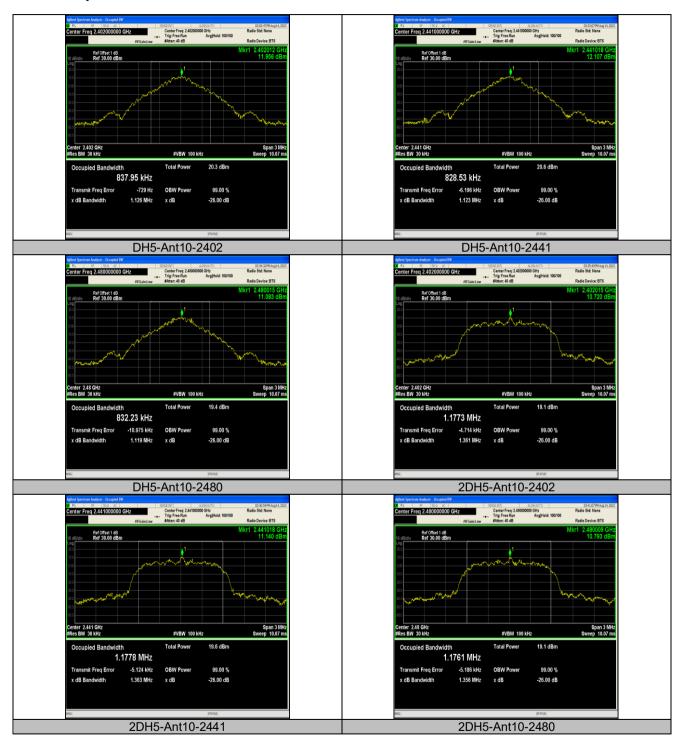
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Test Graphs





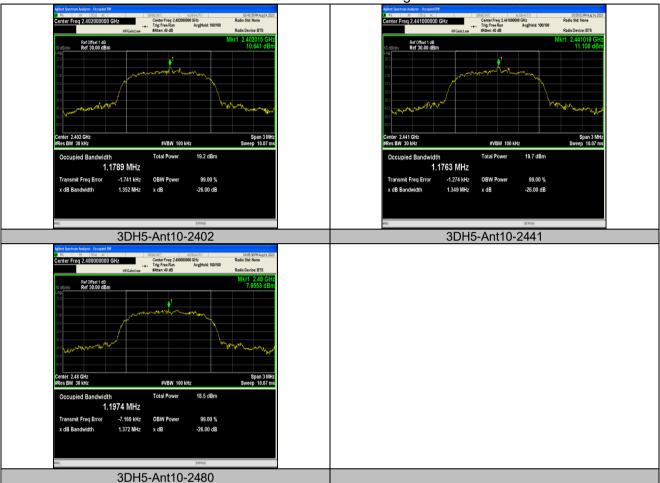
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant10	2402	14.59	≤20.97	PASS
DH5	Ant10	2441	15.06	≤20.97	PASS
DH5	Ant10	2480	14.32	≤20.97	PASS
2DH5	Ant10	2402	15.64	≤20.97	PASS
2DH5	Ant10	2441	16.32	≤20.97	PASS
2DH5	Ant10	2480	14.46	≤20.97	PASS
3DH5	Ant10	2402	15.73	≤20.97	PASS
3DH5	Ant10	2441	16.32	≤20.97	PASS
3DH5	Ant10	2480	14.52	≤20.97	PASS



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Carrier frequency separation
Test Result

TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant10	Нор	1.004	≥0.634	PASS
2DH5	Ant10	Нор	1.02	≥0.858	PASS
3DH5	Ant10	Нор	1.024	≥0.874	PASS



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Time of occupancy Test Result

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant10	Нор	0.380	330	0.125	≤0.4	PASS
DH3	Ant10	Нор	1.630	170	0.277	≤0.4	PASS
DH5	Ant10	Нор	2.890	70	0.202	≤0.4	PASS
2DH1	Ant10	Нор	0.380	330	0.125	≤0.4	PASS
2DH3	Ant10	Нор	1.620	140	0.227	≤0.4	PASS
2DH5	Ant10	Нор	2.870	90	0.258	≤0.4	PASS
3DH1	Ant10	Нор	0.370	320	0.118	≤0.4	PASS
3DH3	Ant10	Нор	1.610	190	0.306	≤0.4	PASS
3DH5	Ant10	Нор	2.870	90	0.258	≤0.4	PASS



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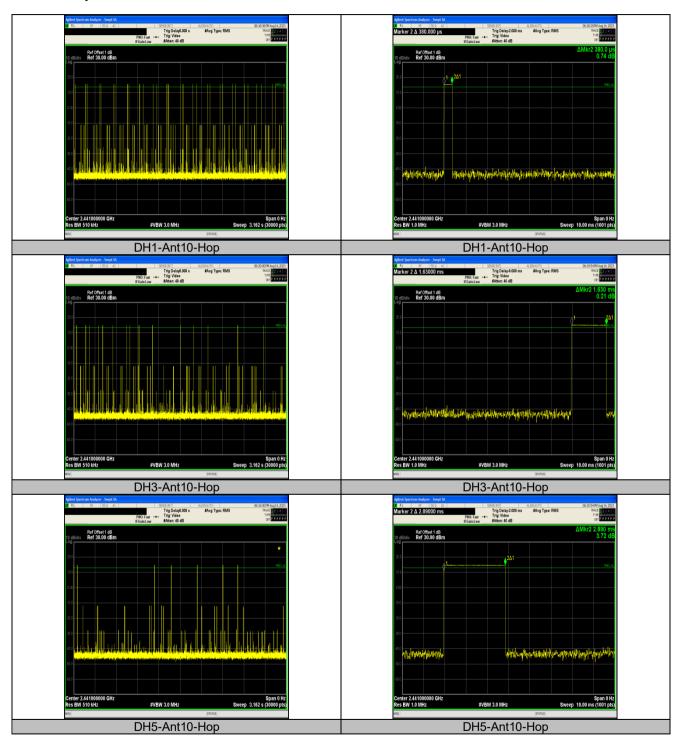
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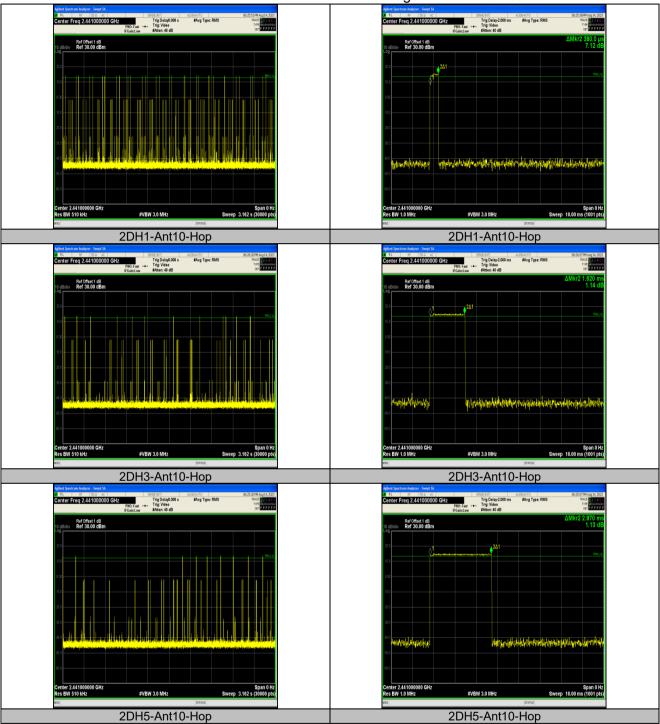
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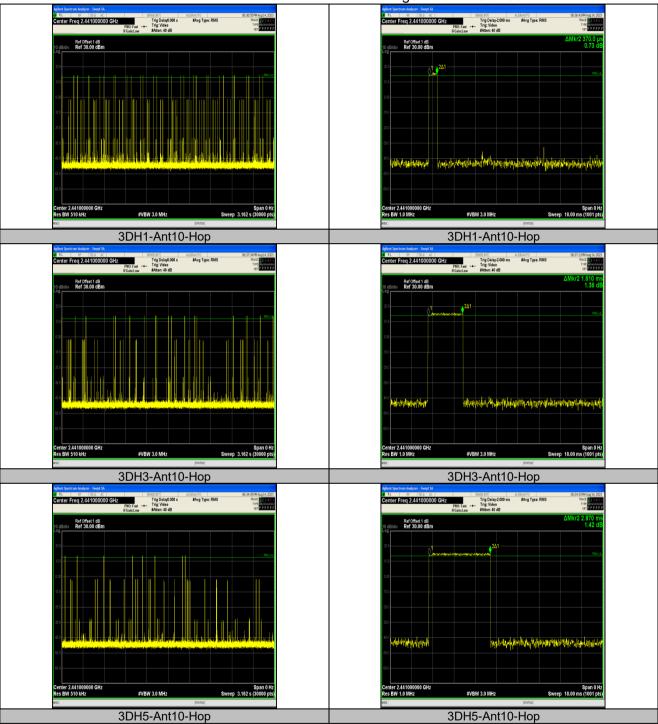
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Number of hopping channels Test Result

TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
DH5	Ant10	Нор	79	≥15	PASS
2DH5	Ant10	Нор	79	≥15	PASS
3DH5	Ant10	Нор	79	≥15	PASS



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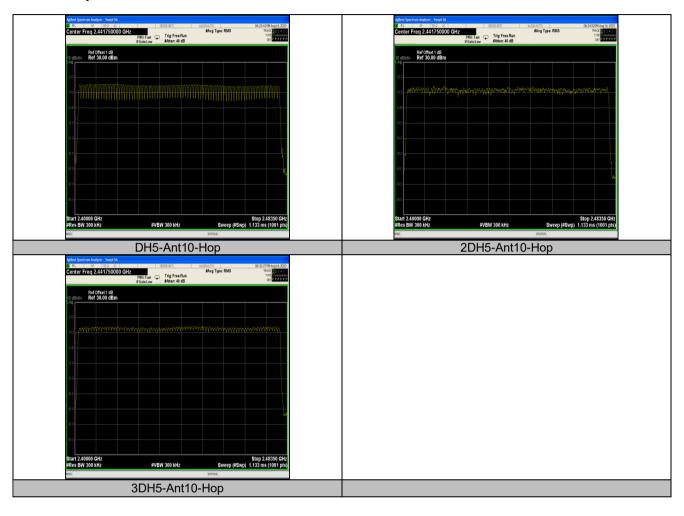
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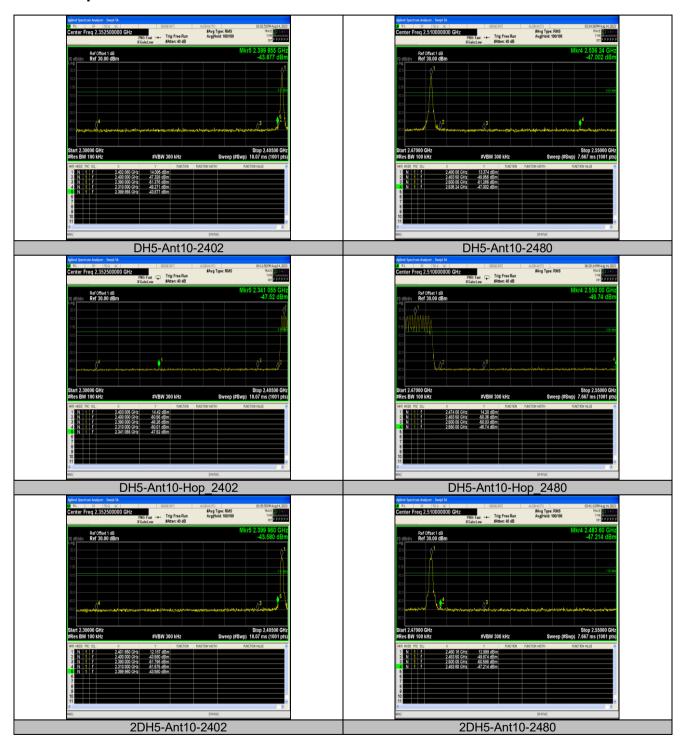
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Band edge measurements Test Graphs





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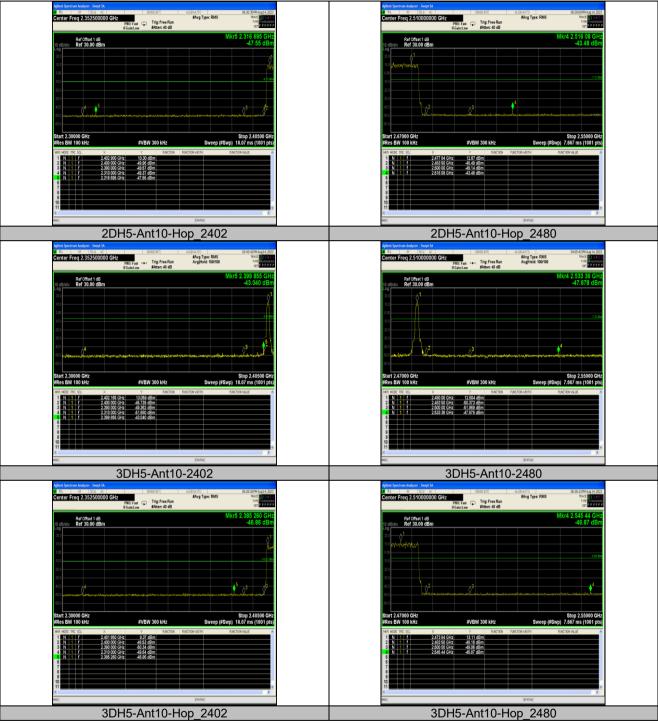
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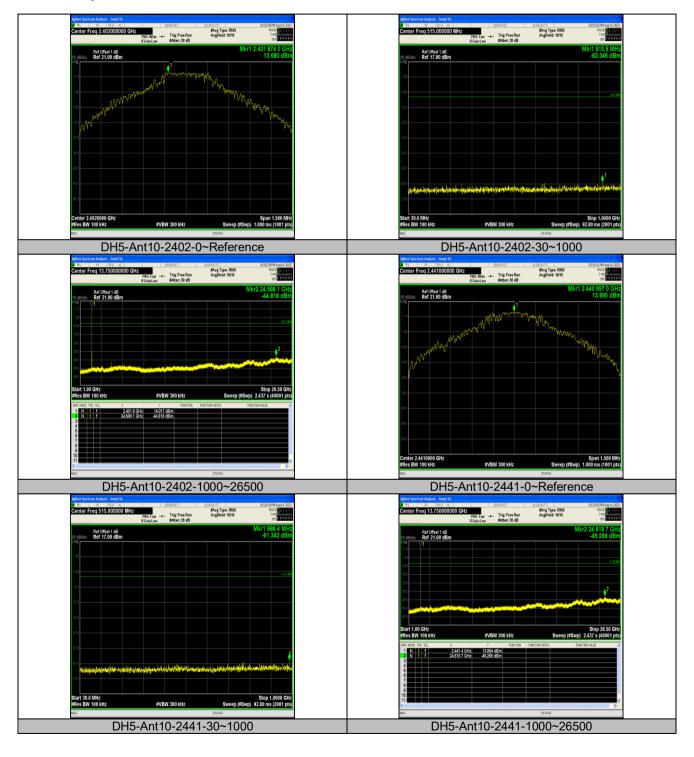
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Conducted Spurious Emission Test Graphs





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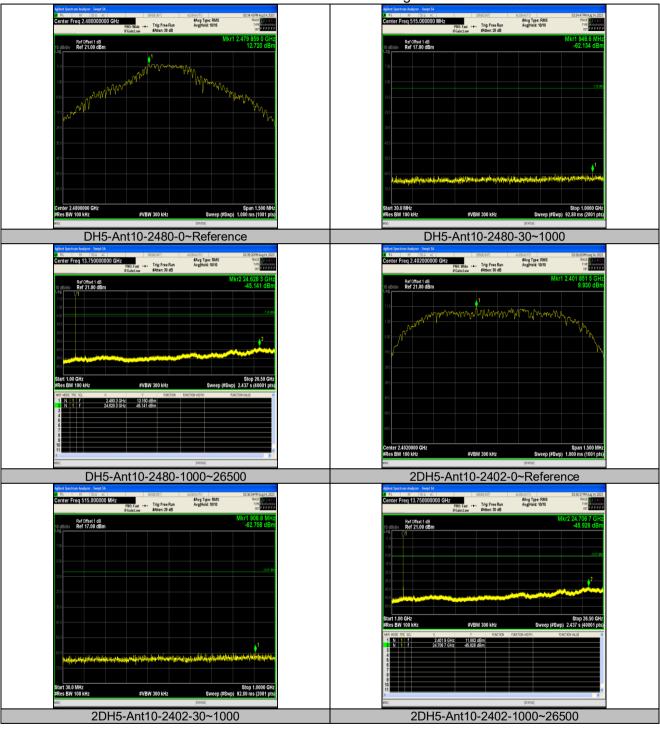
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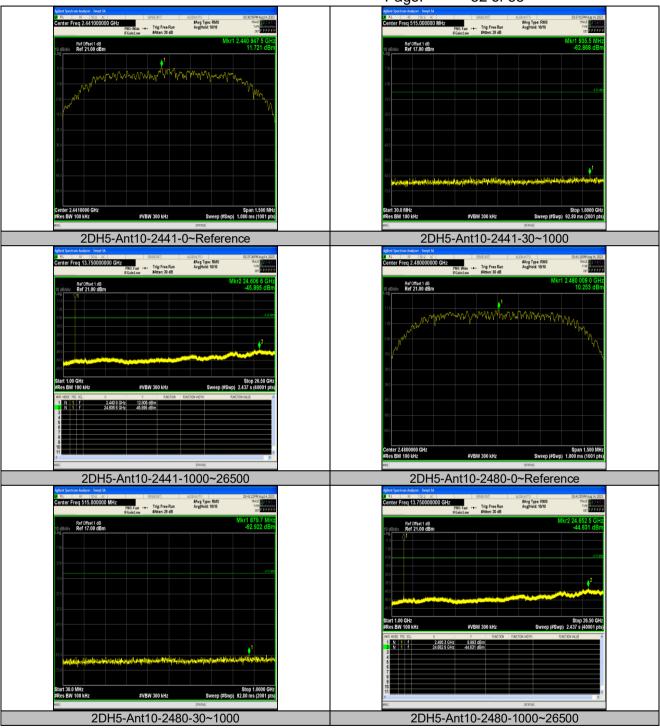
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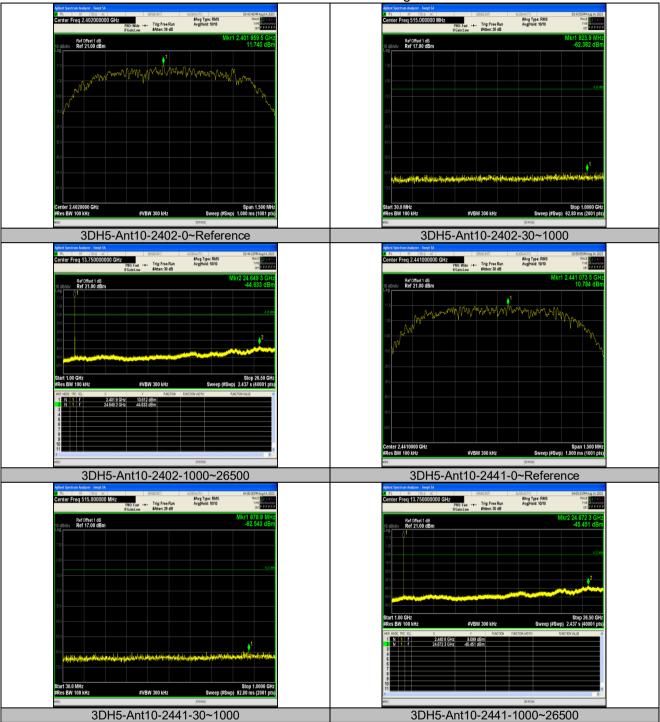
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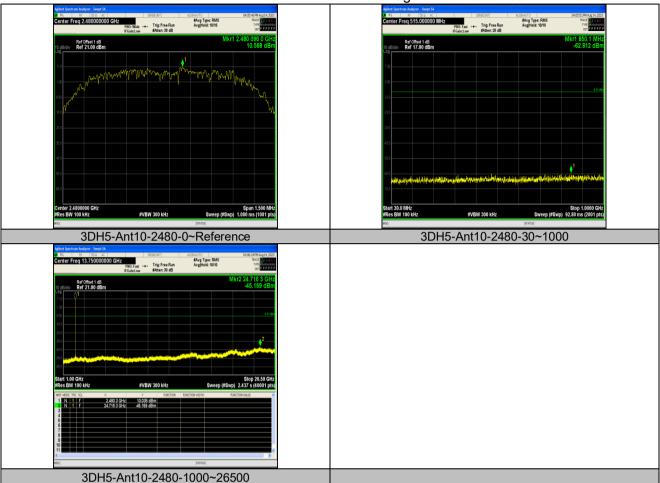
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Duty Cycle Test Result

TestM	lode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH	5	Ant10	2402	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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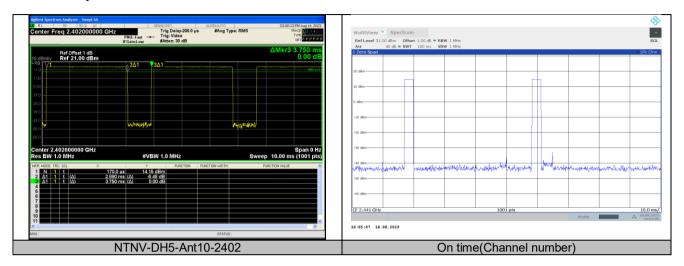
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Test Graphs





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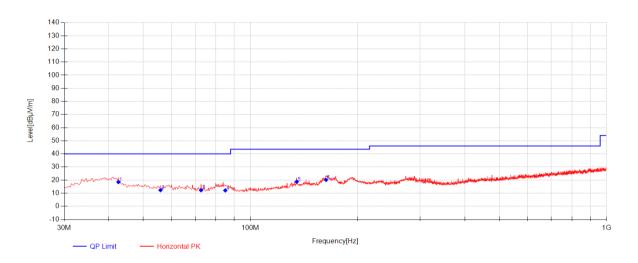


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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: GFSK _Channel 78



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.61	40.89	-36.24	13.85	18.50	40.00	21.50	236	169	Horizontal
2	55.9475	35.59	-36.29	13.07	12.37	40.00	27.63	122	330	Horizontal
3	72.68	38.16	-36.28	10.41	12.29	40.00	27.71	148	120	Horizontal
4	85.0475	38.82	-36.03	9.37	12.15	40.00	27.85	158	281	Horizontal
5	135.0025	41.23	-35.59	13.15	18.79	43.50	24.71	179	360	Horizontal
6	163.1325	41.19	-35.26	14.22	20.15	43.50	23.35	163	360	Horizontal



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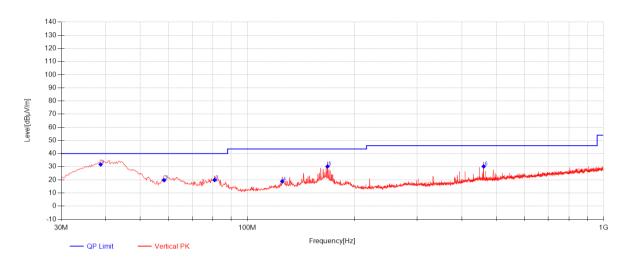
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Data	Data List											
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1	38.73	54.16	-36.32	13.90	31.73	40.00	8.27	123	78	Vertical		
2	58.3725	43.22	-36.36	12.88	19.74	40.00	20.26	261	239	Vertical		
3	80.925	46.29	-35.70	9.30	19.89	40.00	20.11	154	349	Vertical		
4	125.3025	42.26	-35.88	12.53	18.91	43.50	24.59	135	321	Vertical		
5	167.9825	51.03	-35.18	14.36	30.21	43.50	13.29	198	330	Vertical		
6	460.9225	47.29	-33.15	16.09	30.23	46.00	15.77	185	249	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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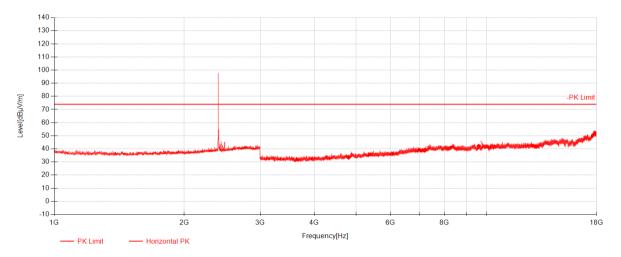
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Transmitter emission Above 1GHz GFSK Channel 00



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804.0000	47.89	30.97	-45.54	33.32	74.00	40.68	254	0	Horizontal	
	4804.0000	-	-	-	8.56	54.00	45.44	-	-	-	
2	7206.0000	46.31	35.78	-43.44	38.65	74.00	35.35	123	127	Horizontal	
	7206.0000	-	-	-	13.89	54.00	40.11	-	-	-	
3	9608.0000	44.43	37.46	-39.65	42.23	74.00	31.77	263	343	Horizontal	
	9608.0000	-	-	-	17.47	54.00	36.53	-	-	-	



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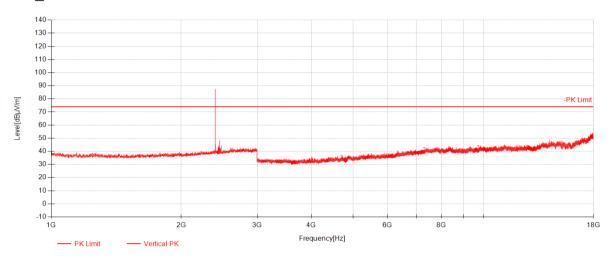
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GFSK_Channel 00



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804.0000	47.52	30.97	-45.54	32.95	74.00	41.05	175	234	Vertical	
	4804.0000	-	-	-	8.19	54.00	45.81	-	-	-	
2	7206.0000	47.22	35.78	-43.44	39.56	74.00	34.44	186	72	Vertical	
	7206.0000	-	-	-	14.80	54.00	39.20	-	-	-	
3	9608.0000	43.31	37.46	-39.65	41.11	74.00	32.89	142	144	Vertical	
	9608.0000	-	-	-	16.35	54.00	37.65	-	-	-	



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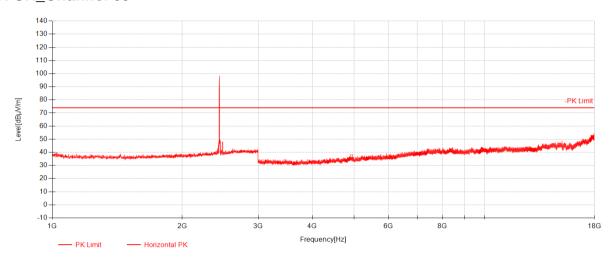
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GFSK_Channel 39



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4882.0000	49.45	31.14	-45.53	35.06	74.00	38.94	211	162	Horizontal	
	4882.0000	-	-	-	10.30	54.00	43.70	-	-	-	
2	7323.0000	46.78	36.10	-43.67	39.21	74.00	34.79	106	90	Horizontal	
	7323.0000	-	-	-	14.45	54.00	39.55	-	-	-	
3	9764.0000	42.04	37.75	-39.47	40.33	74.00	33.67	186	272	Horizontal	
	9764.0000	-	-	-	15.57	54.00	38.43	-	-	-	



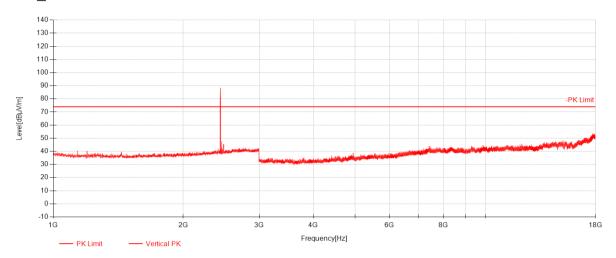
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GFSK_Channel 39



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4882.0000	49.40	31.14	-45.53	35.01	74.00	38.99	284	216	Vertical	
	4882.0000	-	-	-	10.25	54.00	43.75	-	-	-	
2	7323.0000	47.97	36.10	-43.67	40.40	74.00	33.60	120	54	Vertical	
	7323.0000	-	-	-	15.64	54.00	38.36	-	-	-	
3	9764.0000	42.55	37.75	-39.47	40.84	74.00	33.16	213	343	Vertical	
	9764.0000	-	-	-	16.08	54.00	37.92	-	-	-	



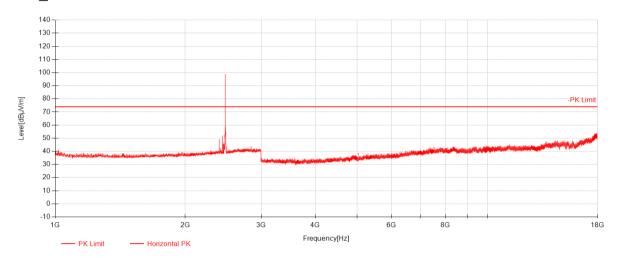
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GFSK_Channel 78



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.0000	49.50	31.31	-45.60	35.22	74.00	38.78	233	145	Horizontal	
	4960.0000	-	-	-	10.46	54.00	43.54	-	-	-	
2	7440.0000	46.47	36.43	-43.30	39.60	74.00	34.40	148	54	Horizontal	
	7440.0000	-	-	-	14.84	54.00	39.16	-	-	-	
3	9920.0000	41.61	38.05	-39.31	40.35	74.00	33.65	186	197	Horizontal	
	9920.0000	-	-	-	15.59	54.00	38.41	-	-	-	



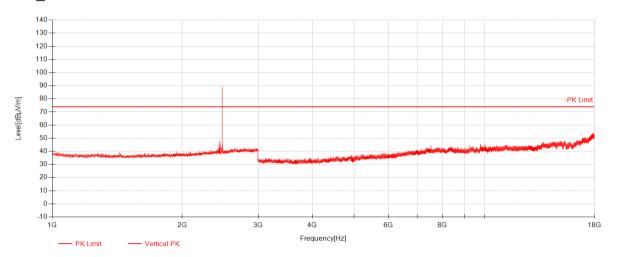
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GFSK_Channel 78



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960.0000	47.46	31.31	-45.60	33.18	74.00	40.82	146	1	Vertical		
	4960.0000	-	-	-	8.42	54.00	45.58	-	-	-		
2	7440.0000	47.36	36.43	-43.30	40.49	74.00	33.51	189	126	Vertical		
	7440.0000	-	-	-	15.73	54.00	38.27	-	-	-		
3	9920.0000	42.77	38.05	-39.31	41.51	74.00	32.49	222	126	Vertical		
	9920.0000	-	-	-	16.75	54.00	37.25	-	-	-		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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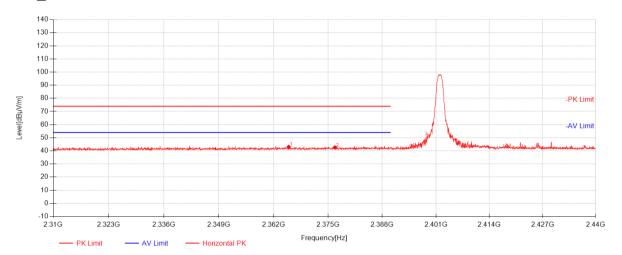


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Restricted bands around fundamental frequency

GFSK Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2365.5967	39.70	26.92	-23.57	43.05	74.00	30.95	156	40	Horizontal		
	2365.5967	-	-	-	18.29	54.00	35.71	-	-	-		
2	2376.6467	39.23	26.95	-23.57	42.61	74.00	31.39	156	40	Horizontal		
	2376.6467	-	-	-	17.85	54.00	36.15	-	-	-		



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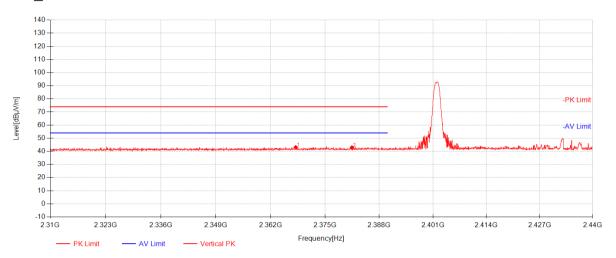
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GFSK_Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2367.98	39.74	26.93	-23.57	43.10	74.00	30.90	166	214	Vertical		
	2367.98	-	-	-	18.34	54.00	35.66	-	-	-		
2	2381.4567	39.53	26.97	-23.57	42.93	74.00	31.07	166	214	Vertical		
	2381.4567	-	-	-	18.17	54.00	35.83	-	-	-		



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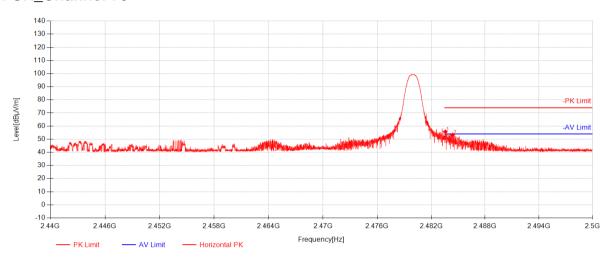
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GFSK_Channel 78



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.59	52.01	27.25	-23.54	55.72	74.00	18.28	126	357	Horizontal		
	2483.59	-	-	-	30.96	54.00	23.04	-	-	-		
2	2484.3925	49.63	27.26	-23.54	53.34	74.00	20.66	126	357	Horizontal		
	2484.3925	-	-	-	28.58	54.00	25.42	-	-	-		



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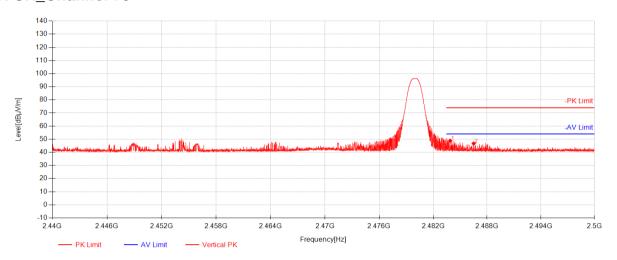
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.8975	45.09	27.25	-23.54	48.80	74.00	25.20	186	245	Vertical		
	2483.8975	-	-	-	24.04	54.00	29.96	-	-	-		
2	2486.5075	42.97	27.26	-23.54	46.69	74.00	27.31	186	245	Vertical		
	2486.507	-	-	-	21.93	54.00	32.07	-	-	-		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



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