

Radio Test Report

Report No.:STS2503084W01

Issued for

Dellking Industrial Co., Ltd.

4 / F, building 8, phase I, Lianchuang Science Park, Bulan Road, Longgang District, Shenzhen, China

Product Name: Bluetooth Intercom PTT Headset

Brand Name: Dellking

Model Name: DP6

Series Model(s): DP6A, DP7, DP7A

FCC ID: 2AIO2DP6

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



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TEST REPORT

Applicant's Name....: Dellking Industrial Co., Ltd.

4 / F, building 8, phase I, Lianchuang Science Park, Bulan Road, Address

Longgang District, Shenzhen, China

Manufacturer's Name.....: Dellking Industrial Co., Ltd.

4 / F, building 8, phase I, Lianchuang Science Park, Bulan Road, Address

Longgang District, Shenzhen, China

Product Description

Product Name: Bluetooth Intercom PTT Headset

Brand Name...: Dellking

Model Name: DP6

Series Model(s): DP6A, DP7, DP7A

Standards: FCC Part15.247

Test Procedure....: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd. **Date of Test**

Date of receipt of test item 06 Feb. 2025

Date (s) of performance of tests 10 Mar. 2025 ~ 14 Mar. 2025

Date of Issue 17 Mar. 2025

Test Result Pass

Testing Engineer

(Aaron Bu)

Technical Manager

(Skvlar Li)

Authorized Signatory:

(Bovey Yang)

TESTING APPROV



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	17 Mar. 2025	STS2503084W01	ALL	Initial Issue
		1		

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1. SUMMARY OF TEST RESULTS

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

	FCC Part 15.247,Subpart C		
Standard Section	Judgment	Remark	
15.207	Conducted Emission	N/A	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(a)(1)&(b)(1)	Output Power	PASS	
15.209	Radiated Spurious Emission	PASS	
15.247(d)	Conducted Spurious & Band Edge 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 ccording tto ANSI C63.10-2020.



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1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ,

Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Dwell time	±3.2%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Bluetooth Intercom PTT Headset
Brand Name	Dellking
Model Name	DP6
Series Model(s)	DP6A, DP7, DP7A
Model Difference	All the same except for the model name
Channel List	Please refer to the Note 3.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Bluetooth Configuration	BR+EDR
Antenna Type	Ceramic antenna
Antenna Gain	2.4dBi
Power Rating	DC 3.7V by battery
Adapter	N/A
Battery	DC 3.7V 180mAh
Hardware version number	DP6A_V5
Software version number	DP6A_HeadphoneMate_V02_32
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 refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



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	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				



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2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.
- (3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

	Test Case
AC Conducted Emission	N/A

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.



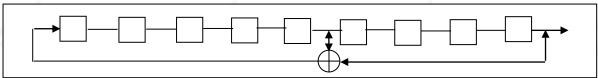
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The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

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

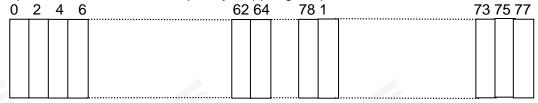
Numver of shift register stages:9

Length of pseudo-random sequence:29-1=511bits Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence

An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on th average by each transmitter.

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

(3) Frequency Hopping System

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

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

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

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



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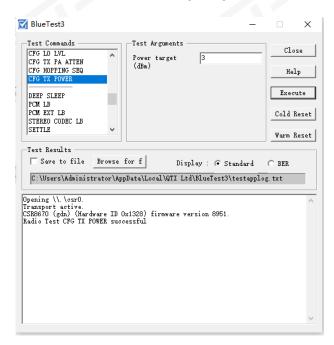
2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

	Test program: Bluetooth			
(Control software) Parameters(1/2/3Mbps)	Packet type:	Packet type:	Packet type:	
	DH1:4:27	DH3:11:183	DH5:15:339	
	2DH1:20:54	2DH3:26:367	2DH5:30:679	
	3DH1:24:83	3DH3:27:552	3DH5:31:1021	

The test utility software used during testing was "CSR BlueSuite", and the version was "2.5.0".

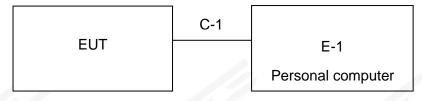
Software Setting Diagram



Test Mode	Channel	Power Index
GFSK	L/M/H	3
π /4-DQPSK	L/M/H	3
8DPSK	L/M/H	3

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test





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2.6 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.

COTTING	diation during the test	J		
Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Personal computer	DELL	Inspiron 3501	N/A

Item	Shielded Type	Ferrite Core	Length	Note
			///	

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".



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2.7 EQUIPMENTS LIST

RF Radiation Test Equipment

NE Naulation 168t	Lquipinent				
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1 M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G- 18GHz)	SKET	LNPA-01018G -45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18 G-40GHz)	SKET	LNPA_1840-5 0	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFE NG	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC		Ver.STSLAB-0	3A1 RE	

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2024.09.24	2025.09.23
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC		Ver.STSLAB-03	3A1 CE	
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Power Meter	Keysight	U2021XA	MY56120038	2024.09.23	2025.09.22
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2024.09.23	2025.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	MW		MTS 8310_2	.0.0.0	



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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)		
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

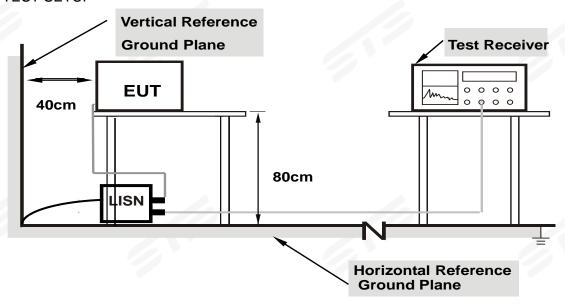
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.4 EUT OPERATING CONDITIONS

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



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3.1.5 TEST RESULTS: N/A

Remark: The BT function of EUT didn't work when charging



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

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

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

EDEOLIENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



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For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
	200Hz (From 9kHz to 0.15MHz)/
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);
band)	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	120 KHz / 300 KHz
band)	120 KHZ / 300 KHZ

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

For Restricted band

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



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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.

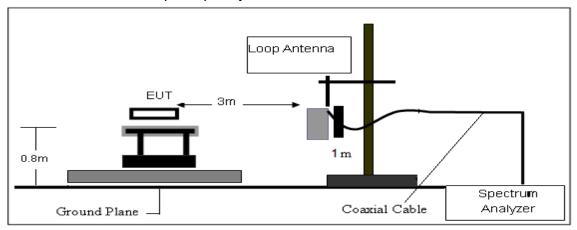
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD No deviation.

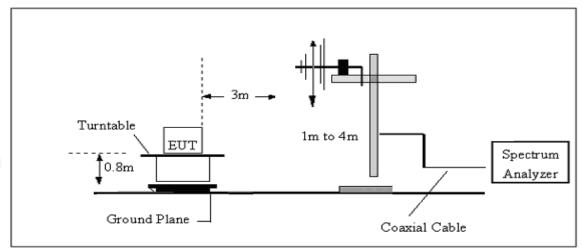
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3.2.4 TESTSETUP

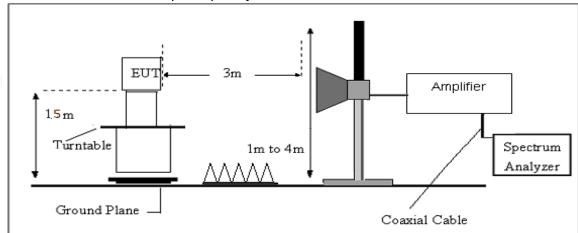
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.



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3.2.6 FIELD STRENGTH CALCULATION

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

 $F\dot{S} = RA + AF + CL - AG$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



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3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	20.9°C	Relative Humidity:	50 %
Test Voltage:	DC 3.7V	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Toot Dooult
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result
					PASS
					PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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



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(30MHz-1000MHz)

Temperature:	20.9°C	Relative Humidity:	50 %				
Test Voltage:	DC 3.7V	Test Mode:	TX Mode				
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)						

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.5306	31.28	-11.32	19.96	40.00	-20.04	QP
2	262.8955	32.29	-15.12	17.17	46.00	-28.83	QP
3	468.8762	33.88	-11.38	22.50	46.00	-23.50	QP
4	572.6144	33.89	-8.52	25.37	46.00	-20.63	QP
5	744.8661	32.77	-4.63	28.14	46.00	-17.86	QP
6	952.0937	33.90	-2.10	31.80	46.00	-14.20	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.





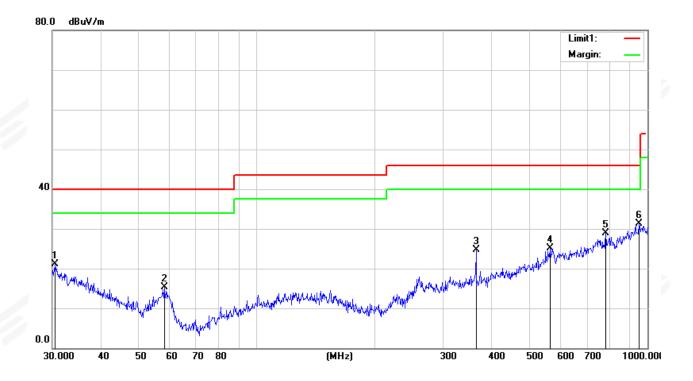
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Temperature:	20.9°C	Relative Humidity:	50 %					
Test Voltage:	DC 3.7V	Test Mode:	TX Mode					
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)						

No.	Frequency	Reading	Corre t	Corre t Result Limit		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.5306	32.50	-11.32	21.18	40.00	-18.82	QP
2	57.9993	40.28	-25.05	15.23	40.00	-24.77	QP
3	364.2595	39.05	-14.29	24.76	46.00	-21.24	QP
4	562.6624	33.08	-7.92	25.16	46.00	-20.84	QP
5	782.3453	34.21	-5.36	28.85	46.00	-17.15	QP
6	952.0937	33.44	-2.10	31.34	46.00	-14.66	QP

Remark:

- 4. Margin = Result (Result = Reading + Factor)-Limit
- 5. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 6. All modes have been tested, only show the worst case.





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(1GHz~25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
()	(1 /	(' '	(- /	` '	annel (8DPSK	\	(1 - 7	(- /	71 -	
3264.47	60.55	44.7	6.7	28.2	-9.8	50.75	74	-23.25	PK	Vertical
3264.47	51.23	44.7	6.7	28.2	-9.8	41.43	54	-12.57	AV	Vertical
3264.52	52.55	44.7	6.7	28.2	-9.8	42.75	74	-31.25	PK	Horizontal
3264.52	50.74	44.7	6.7	28.2	-9.8	40.94	54	-13.06	AV	Horizontal
4824.30	57.96	44.2	9.04	31.6	-3.56	54.4	74	-19.60	PK	Vertical
4824.30	49.63	44.2	9.04	31.6	-3.56	46.07	54	-7.93	AV	Vertical
4824.01	59.63	44.2	9.04	31.6	-3.56	56.07	74	-17.93	PK	Horizontal
4824.01	49.33	44.2	9.04	31.6	-3.56	45.77	54	-8.23	AV	Horizontal
5359.25	48.85	44.2	9.86	32	-2.34	46.51	74	-27.49	PK	Vertical
5359.25	39.52	44.2	9.86	32	-2.34	37.18	54	-16.82	AV	Vertical
5359.41	49.96	44.2	9.86	32	-2.34	47.62	74	-26.38	PK	Horizontal
5359.41	39.51	44.2	9.86	32	-2.34	37.17	54	-16.83	AV	Horizontal
7235.00	55.63	43.5	11.4	35.5	3.4	59.03	74	-14.97	PK	Vertical
7235.00	43.25	43.5	11.4	35.5	3.4	46.65	54	-7.35	AV	Vertical
7235.19	51.39	43.5	11.4	35.5	3.4	54.79	74	-19.21	PK	Horizontal
7235.19	41.33	43.5	11.4	35.5	3.4	44.73	54	-9.27	AV	Horizontal
	•	•		Middle C	hannel (8DPSh	(/2441 MHz)				•
3264.26	61.05	44.7	6.7	28.2	-9.8	51.25	74	-22.75	PK	Vertical
3264.26	49.33	44.7	6.7	28.2	-9.8	39.53	54	-14.47	AV	Vertical
3264.43	50.13	44.7	6.7	28.2	-9.8	40.33	74	-33.67	PK	Horizontal
3264.43	49.36	44.7	6.7	28.2	-9.8	39.56	54	-14.44	AV	Horizontal
4874.26	57.36	44.2	9.04	31.6	-3.56	53.8	74	-20.20	PK	Vertical
4874.26	49.33	44.2	9.04	31.6	-3.56	45.77	54	-8.23	AV	Vertical
4874.74	49.36	44.2	9.04	31.6	-3.56	45.80	74	-28.20	PK	Horizontal
4874.74	47.25	44.2	9.04	31.6	-3.56	43.69	54	-10.31	AV	Horizontal
5359.70	47.52	44.2	9.86	32	-2.34	45.18	74	-28.82	PK	Vertical
5359.70	38.61	44.2	9.86	32	-2.34	36.27	54	-17.73	AV	Vertical
5359.60	46.25	44.2	9.86	32	-2.34	43.91	74	-30.09	PK	Horizontal
5359.60	37.51	44.2	9.86	32	-2.34	35.17	54	-18.83	AV	Horizontal
7310.79	51.32	43.5	11.4	35.5	3.4	54.72	74	-19.28	PK	Vertical
7310.79	42.63	43.5	11.4	35.5	3.4	46.03	54	-7.97	AV	Vertical
7310.77	52.58	43.5	11.4	35.5	3.4	55.98	74	-18.02	PK	Horizontal
7310.77	43.52	43.5	11.4	35.5	3.4	46.92	54	-7.08	AV	Horizontal



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	High Channel (8DPSK /2480 MHz)									
3264.79	59.33	44.7	6.7	28.2	-9.8	49.53	74	-24.47	PK	Vertical
3264.79	47.52	44.7	6.7	28.2	-9.8	37.72	54	-16.28	AV	Vertical
3264.52	56.89	44.7	6.7	28.2	-9.8	47.09	74	-26.91	PK	Horizontal
3264.52	49.33	44.7	6.7	28.2	-9.8	39.53	54	-14.47	AV	Horizontal
4924.63	58.63	44.2	9.04	31.6	-3.56	55.07	74	-18.93	PK	Vertical
4924.63	46.36	44.2	9.04	31.6	-3.56	42.8	54	-11.2	AV	Vertical
4924.17	48.31	44.2	9.04	31.6	-3.56	44.75	74	-29.25	PK	Horizontal
4924.17	45.52	44.2	9.04	31.6	-3.56	41.96	54	-12.04	AV	Horizontal
5359.01	49.21	44.2	9.86	32	-2.34	46.87	74	-27.13	PK	Vertical
5359.01	45.96	44.2	9.86	32	-2.34	43.62	54	-10.38	AV	Vertical
5359.55	46.63	44.2	9.86	32	-2.34	44.29	74	-29.71	PK	Horizontal
5359.55	38.55	44.2	9.86	32	-2.34	36.21	54	-17.79	AV	Horizontal
7385.56	52.01	43.5	11.4	35.5	3.4	55.41	74	-18.59	PK	Vertical
7385.56	34.52	43.5	11.4	35.5	3.4	37.92	54	-16.08	AV	Vertical
7385.10	43.56	43.5	11.4	35.5	3.4	46.96	74	-27.04	PK	Horizontal
7385.10	41.03	43.5	11.4	35.5	3.4	44.43	54	-9.57	AV	Horizontal

Note:

- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.Emission Level = Reading + Factor
- 3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



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Restricted band Requirements

The worst test result for 8DPSK, Channel 0 / 2402 MHz

Item (Mark)	Freq. MHz	Reading dBµV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Margin dB	Detector	Pol.
1	2390.00	56.69	29.99	30.21	8.35	64.82	74	9.18	Peak	Horizontal
1	2390.00	35.97	29.99	30.21	8.35	44.10	54	9.90	AV ^[1]	Horizontal
2	2390.00	58.67	29.99	30.21	8.35	66.80	74	7.20	Peak	Vertical
2	2390.00	36.34	29.99	30.21	8.35	44.47	54	9.53	AV ^[1]	Vertical
		The	worst to	est result	for 8DP	SK, Chann	el 78 / 2480	MHz		
Item (Mark)	Freq. MHz	Reading dBµV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBµV/m	Limit dBµV/m	Mar in dB	Detector	Pol.
1	2483.50	53.49	30.25	30.25	8.5	61.99	74	12.01	Peak	Horizontal
1	2483.50	26.60	30.25	30.25	8.5	35.10	54	18.90	AV ^[1]	Horizontal
2	2483.50	52.06	30.25	30.25	8.5	60.56	74	13.44	Peak	Vertical
2	2483.50	25.45	30.25	30.25	8.5	33.95	54	20.05	AV ^[1]	Vertical
3	2485.46	58.54	30.25	30.25	8.5	67.04	74	6.96	Peak	Horizontal
3	2486.28	38.19	30.25	30.25	8.5	46.69	54	7.31	AV ^[1]	Horizontal
4	2499.38	48.13	30.25	30.25	8.5	56.63	74	17.37	Peak	Vertical
4	2497.09	35.17	30.25	30.25	8.5	43.67	54	10.33	AV ^[1]	Vertical

Note:

- 1. Level = Read Level + Antenna Factor + Cable loss PRM Factor.
- 2. The other emission levels were very low against the limit.
- 3. Margin = Limit Level.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=Average.



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4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Stort/Stop Eraguanay	Lower Band Edge: 2300 – 2407 MHz	
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

For Hopping Band edge

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



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4.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.5 TEST RESULTS



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5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

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

Spectrum Parameters	Setting
Attenuation	Auto
Span Fre uency	> Operating FrequencyRange
RB	100KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.5 TEST RESULTS

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6. AVERAGE TIME OF OCCUPANCY

6.1 LIMIT

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

6.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f Measure the maximum time duration of one single pulse.

The Dwell Time=Burst Width*Total Hops.The detailed calculations are showed as follows: The duration for dwell time calculation: 0.4[s]*hopping number=0.4[s]*79[ch)=31.6[s*ch]; Dwell Time Calculate formula:

Dwell time = pulse time (ms) x pulse number in 31.6s

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.5 TEST RESULTS



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7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> 20 dB Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

7.2 TEST PROCEDURE

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

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULTS



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8. BANDWIDTH TEST

8.1 LIMIT

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

Spectrum Parameter	Setting
Attenuation Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB 100 kHz (20dB Bandwidth) / 100 kHz (Channel Separa	
Detector	Peak
Trace	Max Hold
Sweep Time Auto	

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.5 TEST RESULTS



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9. OUTPUT POWER TEST

9.1 LIMIT

FCC Part 15.247,Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
		1 W or 0.125W			
15.247 (a)(1)&(b)(1)	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS	

9.2 TEST PROCEDURE

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

- a) Use the following spectrum analyzer settings:
- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW ≥ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and
- e) A plot of the test results and setup description shall be included in the test report.

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

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.



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9.3 TEST SETUP



9.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

9.5 TEST RESULTS



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10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

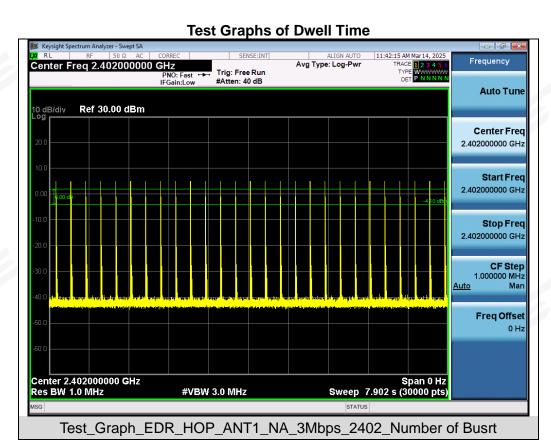
The EUT antenna is Ceramic Antenna. It comply with the standard requirement.



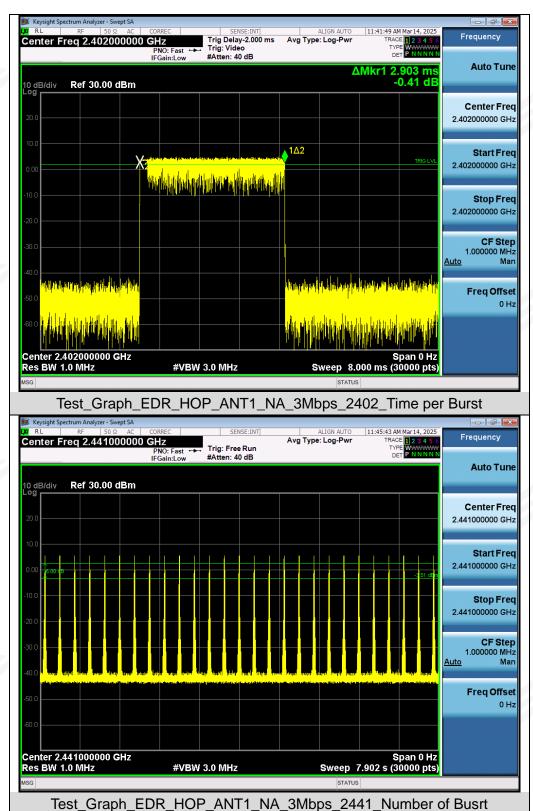
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APPENDIX 1-TEST DATA

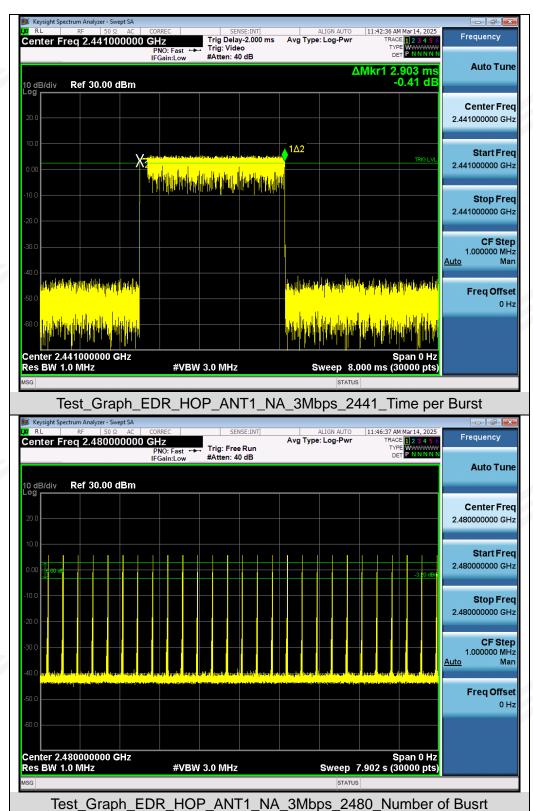
Test Data of Dwell Time					
Channel	Time of Pulse for 3DH5 (ms)	Number of hops in the period specified in the requirements	Dwell Time (ms)	Limit (ms)	Pass or Fail
2402	2.903	27.0*4	313.524	400	Pass
2441	2.903	27.0*4	313.524	400	Pass
2480	2.903	27.0*4	313.524	400	Pass



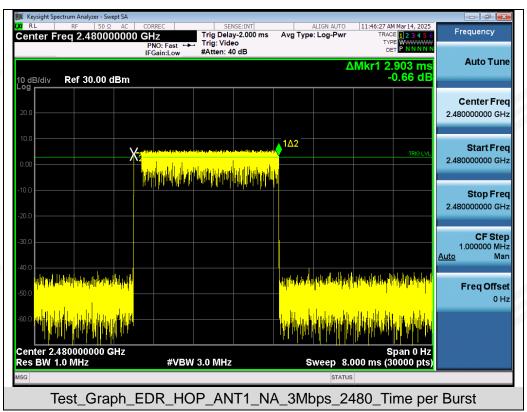
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Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.



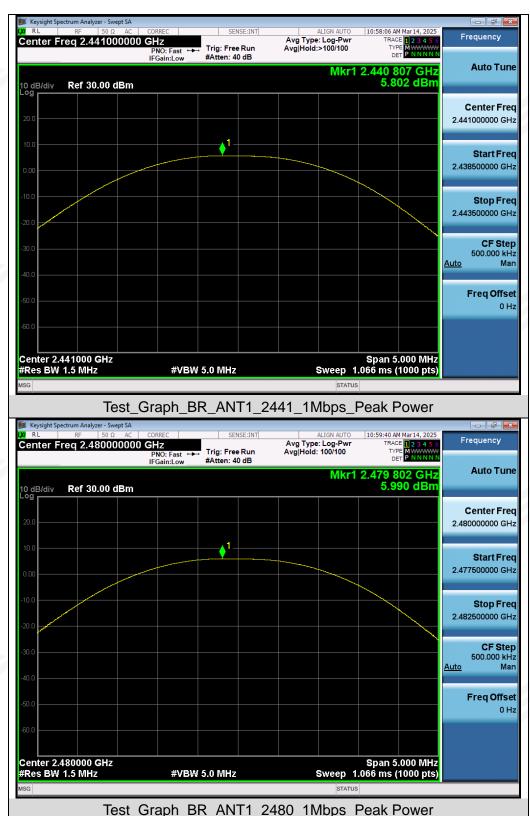
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Test Data of Conducted Output Power				
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2402	5.512	≤21	Pass
GFSK	2441	5.802	≤21	Pass
	2480	5.990	≤21	Pass
	2402	4.898	≤21	Pass
π /4-DQPSK	2441	5.497	≤21	Pass
	2480	5.787	≤21	Pass
	2402	5.217	≤21	Pass
8DPSK	2441	5.797	≤21	Pass
	2480	6.061	≤21	Pass

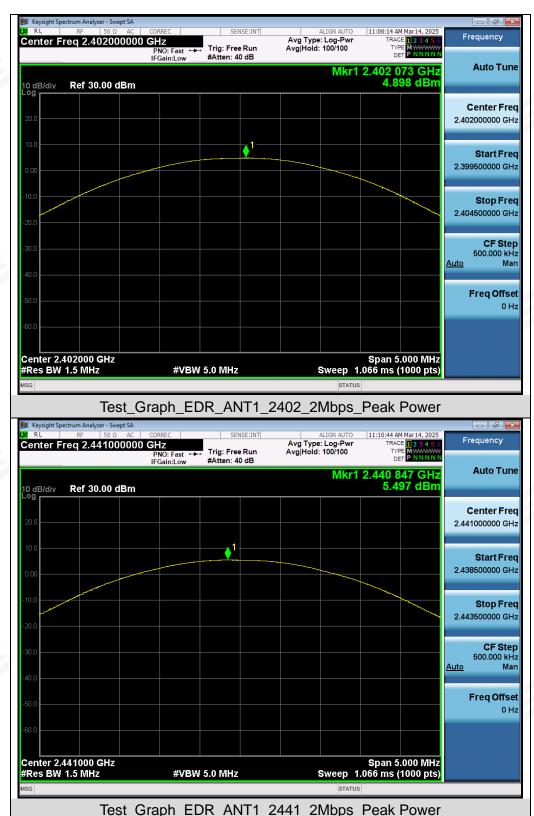
Test Graphs of Conducted Output Power



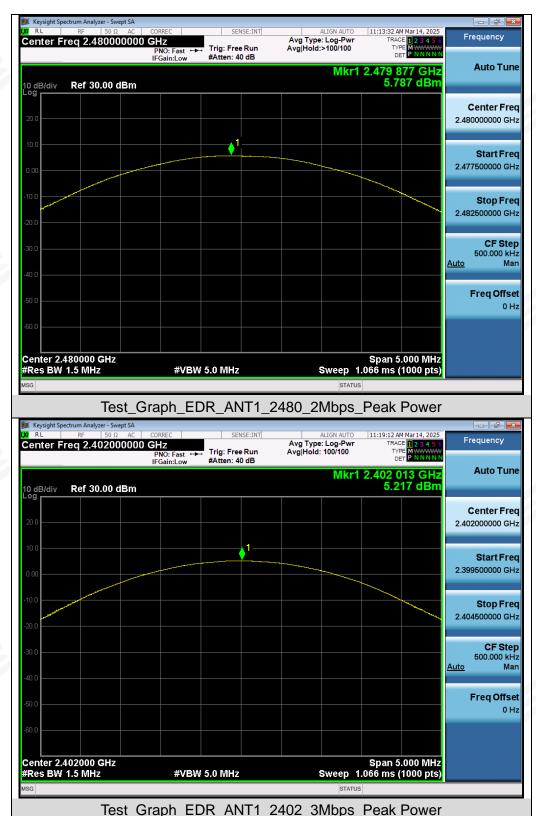
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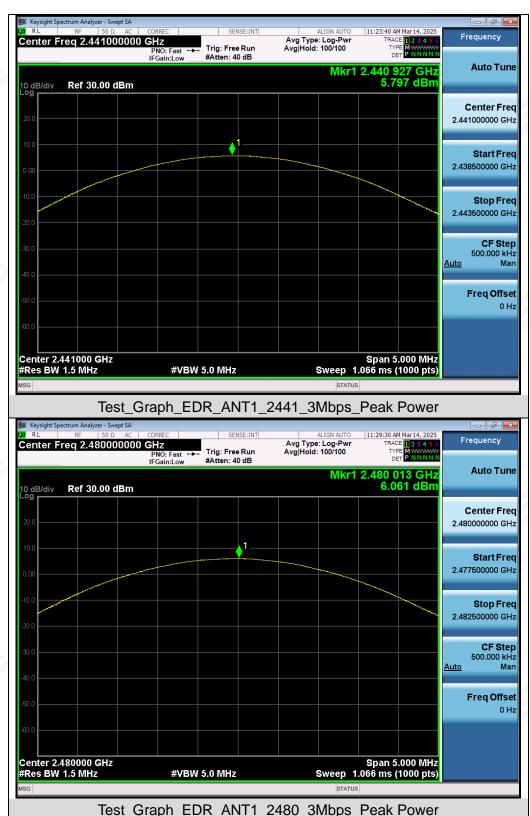
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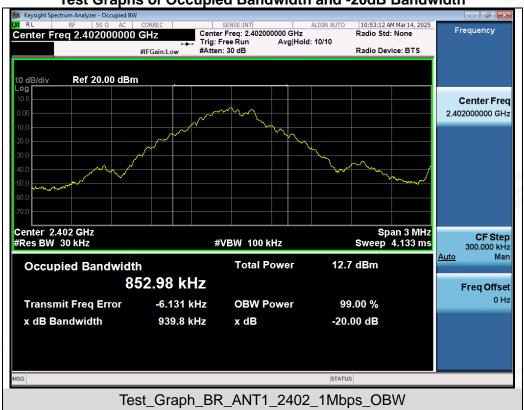




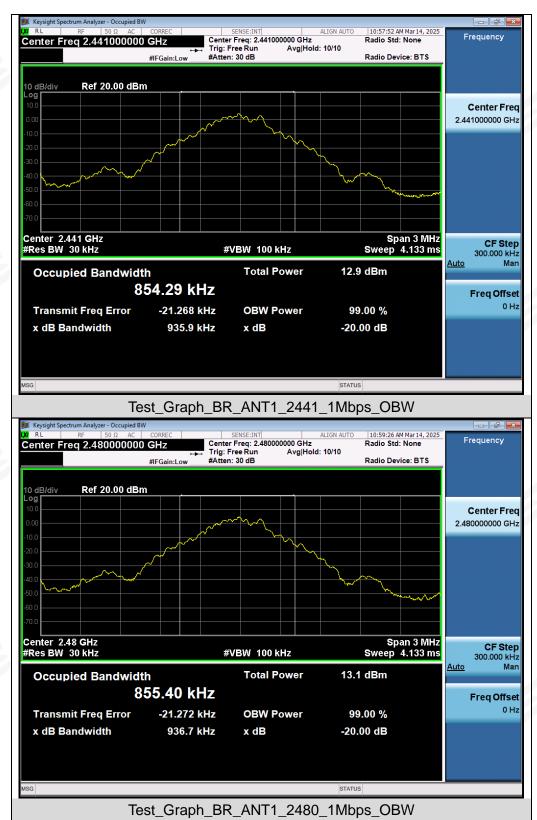
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Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
	2402	0.853	0.940	N/A	Pass
GFSK	2441	0.854	0.936	N/A	Pass
	2480	0.855	0.937	N/A	Pass
	2402	1.186	1.269	N/A	Pass
π /4-DQPSK	2441	1.192	1.235	N/A	Pass
	2480	1.202	1.239	N/A	Pass
	2402	1.175	1.283	N/A	Pass
8DPSK	2441	1.191	1.269	N/A	Pass
	2480	1.198	1.269	N/A	Pass

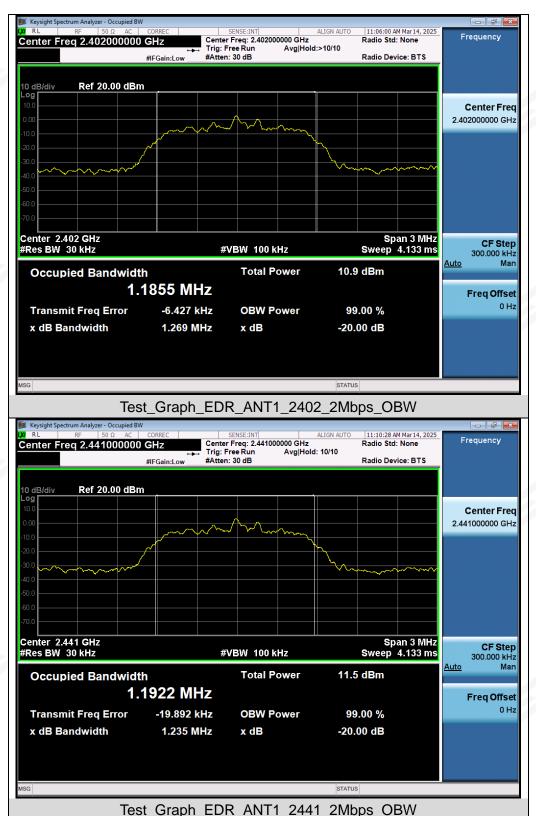
Test Graphs of Occupied Bandwidth and -20dB Bandwidth



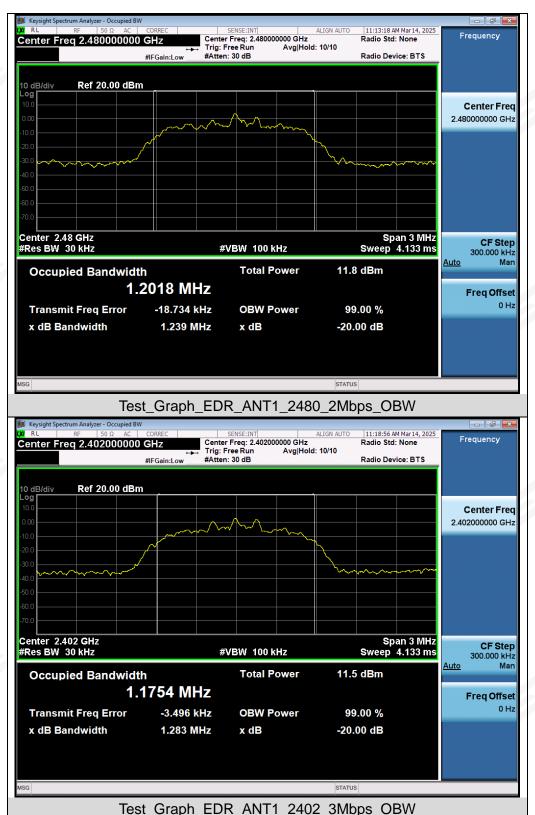
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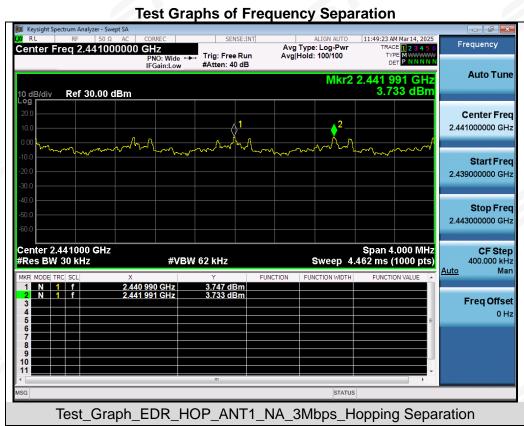
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Test Data of Frequency Separation				
Test Mode Channel Separation (MHz) Limits (MHz) Pass or				
8DPSK Hopping	1.001	≥0.855	Pass	



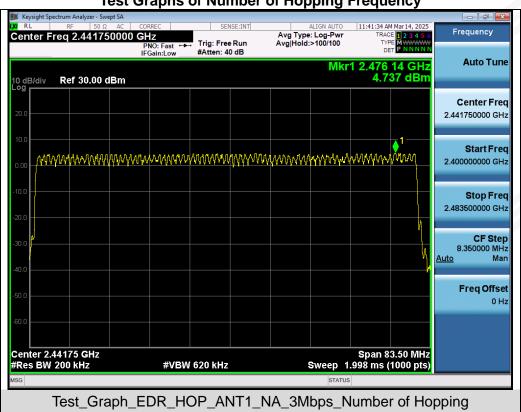
Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.



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Test Data of Number of Hopping Frequency				
Test Mode	Limits	Pass or Fail		
8DPSK Hopping	79	>=15	Pass	

Test Graphs of Number of Hopping Frequency



Note: All mode rates are tested and evaluated, 8DPSK modulated 3DH5 mode is the worst case and documented in the report.



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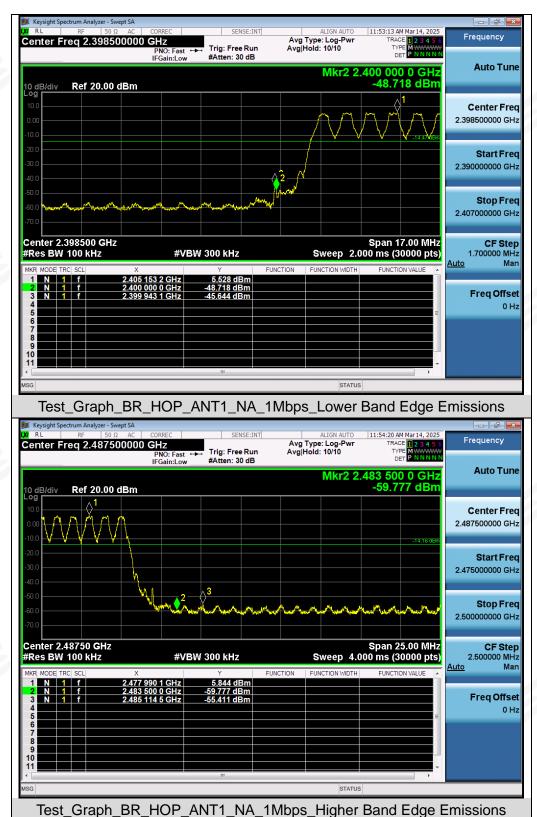
Test Data of Conducted band edge					
Mode	Hopping Mode (MHz)	Max Value (dBc)	Limits (dBc)	Pass or Fail	
	No Hop_2402	-54.881	≤-20	Pass	
1DH5	No Hop_2480	-65.461	≤-20	Pass	
	Hop_2402	-51.172	≤-20	Pass	
	Hop_2480	-61.255	≤-20	Pass	
	No Hop_2402	-43.676	≤-20	Pass	
2DH5	No Hop_2480	-49.915	≤-20	Pass	
	Hop_2402	-41.024	≤-20	Pass	
	Hop_2480	-52.913	≤-20	Pass	
3DH5	No Hop_2402	-43.379	≤-20	Pass	
	No Hop_2480	-48.379	≤-20	Pass	
	Hop_2402	-43.925	≤-20	Pass	
	Hop_2480	-49.767	≤-20	Pass	

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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Higher Band Edge Emissions

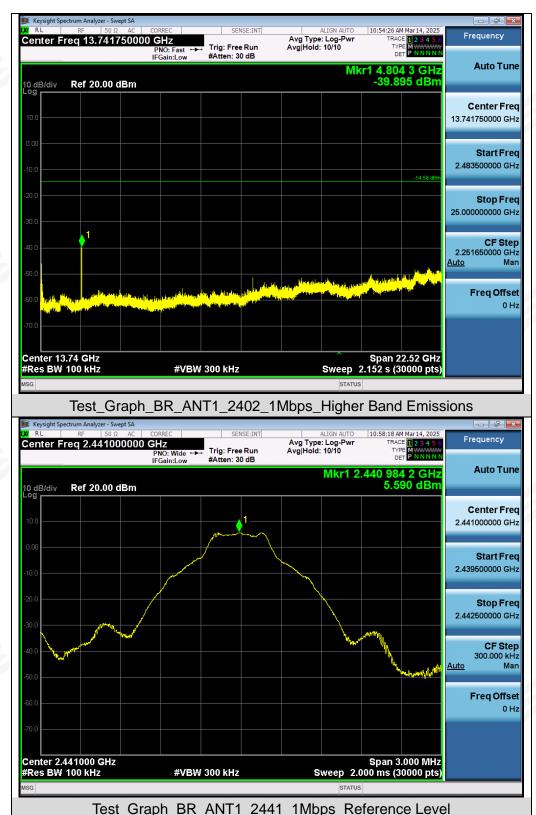
Freq Offset

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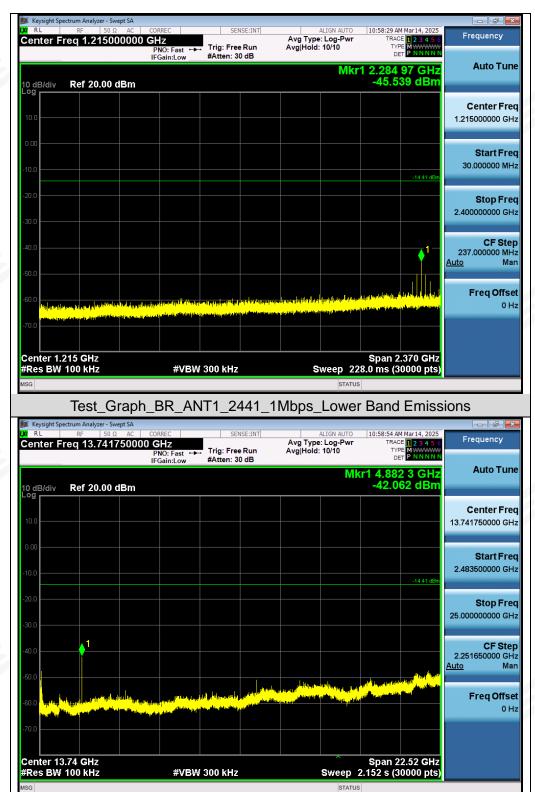
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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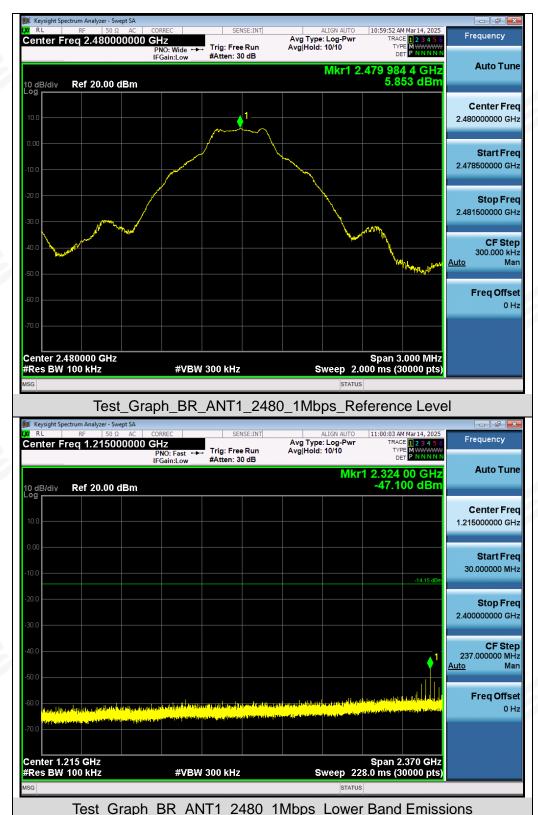


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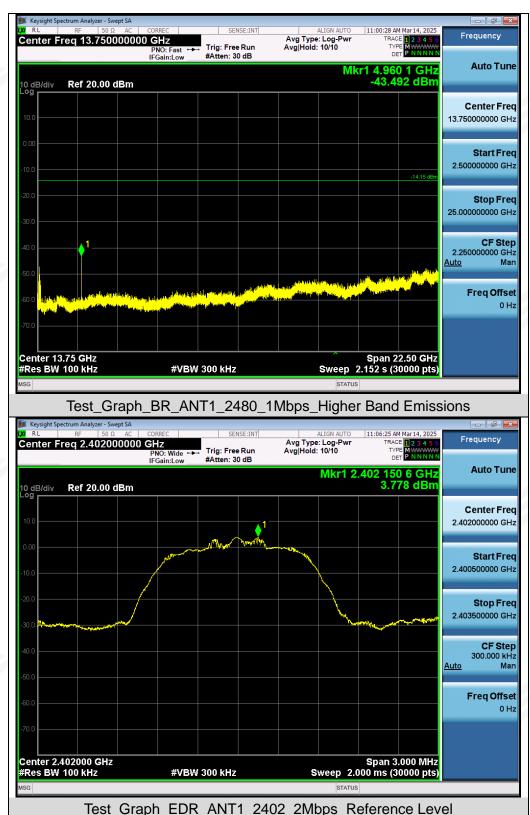


Test_Graph_BR_ANT1_2441_1Mbps_Higher Band Emissions

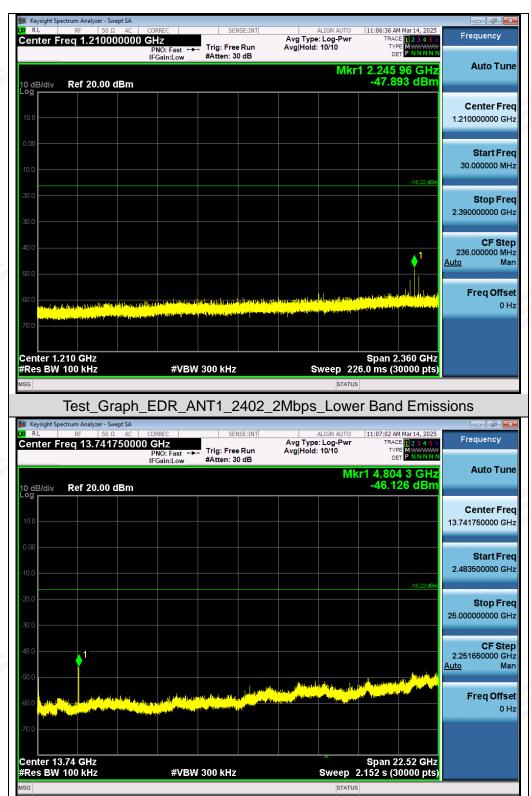
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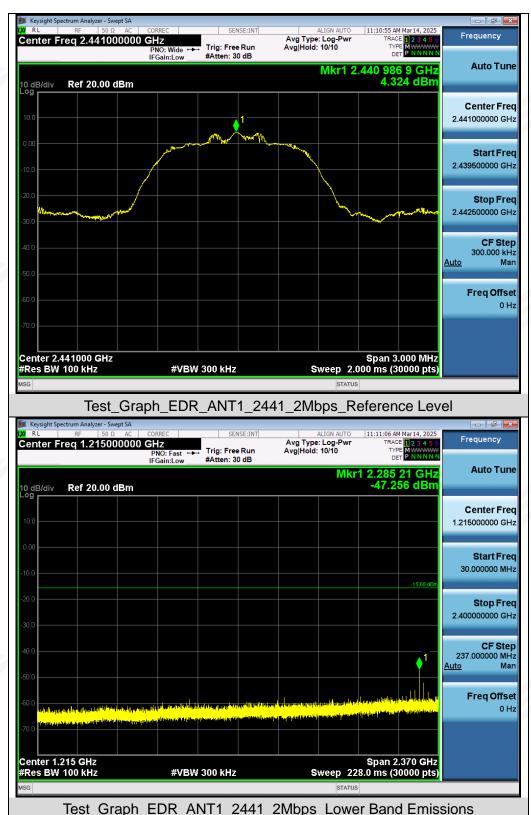


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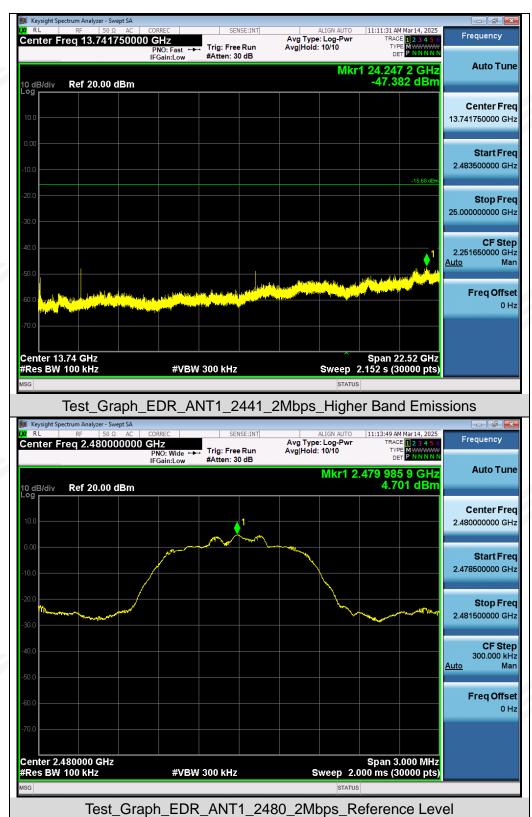


Test_Graph_EDR_ANT1_2402_2Mbps_Higher Band Emissions

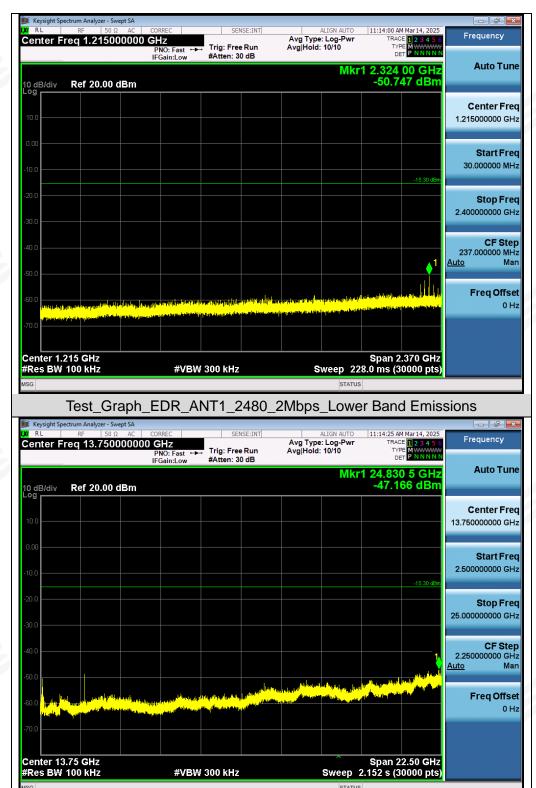
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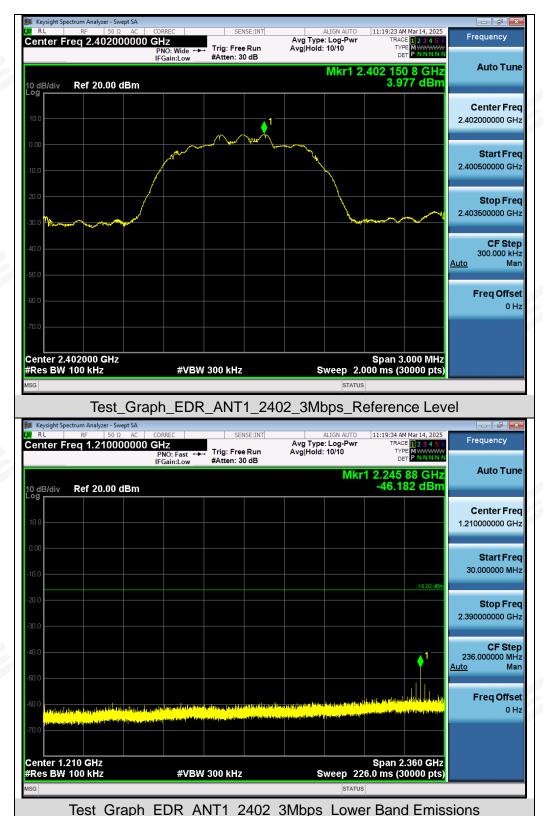


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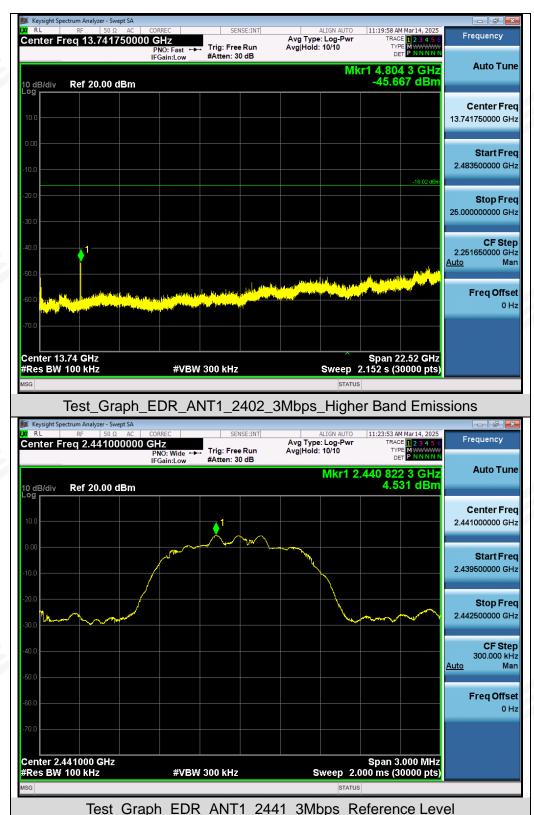


Test_Graph_EDR_ANT1_2480_2Mbps_Higher Band Emissions

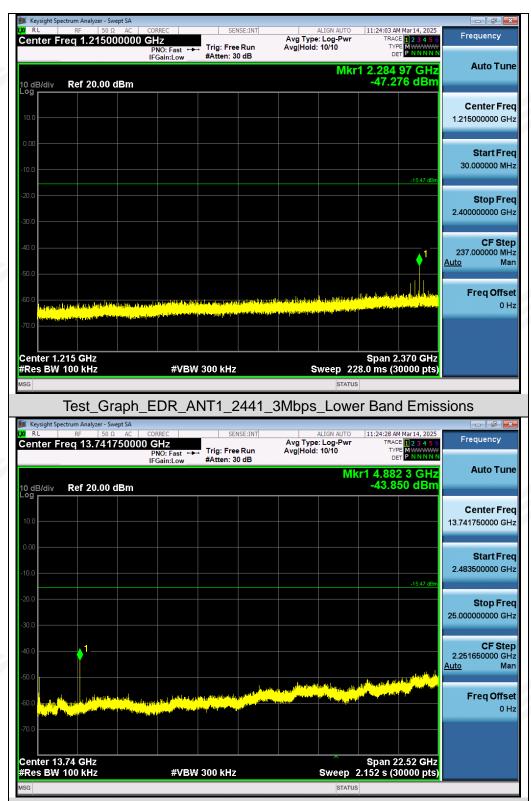
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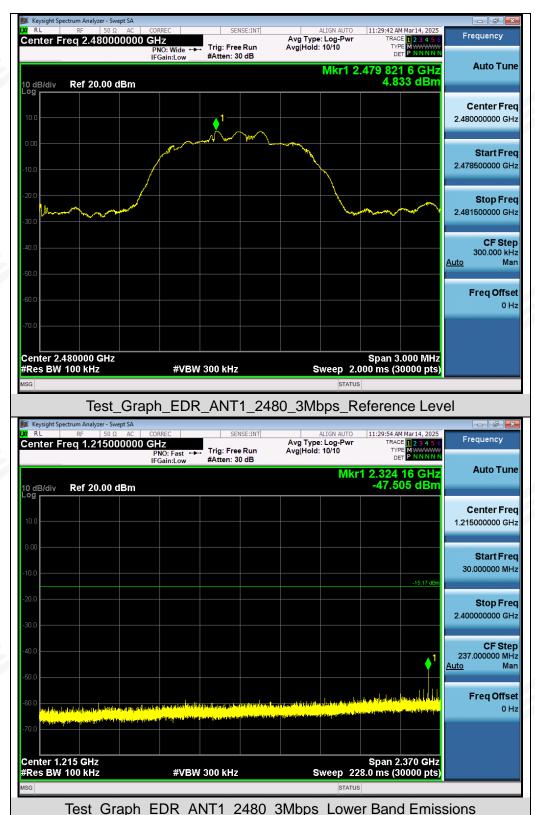


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Test_Graph_EDR_ANT1_2441_3Mbps_Higher Band Emissions

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APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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