

Test Report No.: FCCSZ2025-0008-RF2

# **RF Test Report**

FCC ID : 2BKBC-XFVI-A96

NAME OF SAMPLE : viaim RecDot 2

APPLICANT : Hong Kong Future Intelligent Technology Co., Ltd

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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Applicant Address: ROOM CAUSI					ON TO		
Manufacturer		Name: Hong Kong Future Intelligent Technology Co., Ltd  Address: ROOM 1450 14 /F ETON TOWER 8 HYSAN AVENUE CAUSEWAY BAY HK					
Equipment Unde	Product Name: viaim RecDot 2  Model Name: XFVI-A96  Brand Name: viaim  Serial NO.: N/A						
Date of Receipt.	2025-01-	Sample NO.: 4-1  -14 Date of Testin		ng 2025-01-14 ~ 2025-01-23		~ 2025-01-23	
	Specificat					Test Result	
FCC Part 15, Su		PASS					
		The equip	mer	ıt under test	was	found to co	omply with
		the requirements of the standards applied.					
Evaluation of Test Re	esult						I of CVC ate: 2025-02-20
Compiled by:		Reviewed by:		by:	Approved by:		ed by:
Ling Jintag		Mo Xianbiao		M		5	
<u>Liang Jiatong</u>		Mo Xianbiao		<u>iao</u>		Dong S	<u>Sanbi</u>
Name Sigr	nature	Name Signature Name Signature					
Other Aspects: NONI	<b>E</b> .						
Abbreviations:OK, Pass= pas	ssed	Fail = failed	N/A= n	ot applicable	EU	IT= equipment, sar	mple(s) under tested

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0008-RF2	Original release	2025-02-20

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# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REPORT SECTION			
FCC 15.207	AC Power Conducted Emission	PASS	See section 3.1			
	Occupied Bandwidth  Measurement	ONLY FOR REPORTED	Appendix B of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(a)(1)	Number of Hopping Frequency Used	PASS	Appendix F of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(a)(1)	C 15.247(a)(1) Hopping Channel Separation		Appendix D of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(a)(1)	Dell Time of Each Channel	PASS	Appendix E of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(a)(1)	20dB EMISSION BANDWIDTH	PASS	Appendix A of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(b)	FCC 15.247(b) Conducted Output Power		Appendix C of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.247(d), FCC 15.209, FCC 15.205	FCC 15.209, Radiated Emissions		See section 3.2			
FCC 15.247(d)	Out of band Emission		Appendix G&H of FCCSZ2025-0008-RF2-A1&A2			
FCC 15.203 FCC 15.247(b)	Antenna Requirement	PASS	See section 3.10			

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# 1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2025.5.22
#4Shielding room	MORI	443	N/A	3 year	2026.5.16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168588	1 year	2025.5.24
Analog signal Generator(100kHz ∼12.75GHz)	Rohde&Schwarz	SMB 100A	181882	1 year	2025.4.27
Vector signal Generator(8kHz∼ 6GHz)	Rohde&Schwarz	SMBV 100B	101846	1 year	2025.4.28
DC power supply	Rohde&Schwarz	HMC8041-G	101203	1 year	2025.4.29
RF control unit(2/3/4/5G)	Tonscend	JS0806-1	CS0300027	1 year	2025.4.28
Automatic filter bank(2/3/4G)	Tonscend	JS0806-F	CS0300028	1 year	2025.4.28
Automatic filter bank(5G)	Tonscend	JS0806-F-5G NR	N/A	1 year	2025.4.28
Temperature and humidity meter	UNI-T	A10T	C193561464	1 year	2025.4.27
Constant temperature humidity chamber	TEELONG	TL-HW-225B	20220518-01	1 year	2025.5.24
Radiation Spurious(Above 1GHz)					1
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2025.4.28
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025.5.24
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2025.2.21
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2025.3.24
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2025.3.24
3m anechoic chamber	MORI	966	CS0300011	3 year	2026.5.18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2025.4.28
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2025.4.28
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2025.4.28
#2 control room	MORI	433	CS0200059	3 year	2026.5.16
Temperature and humidity meter		C193561517	C193561517	1 year	2025.4.27
CE Test - 3M Chamber					
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025.5.24
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2025.5.15
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2025.4.27
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2025.4.28
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2025.4.28
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2025.4.28
#1Shielding room	MORI	854	N/A	3 year	2026.5.16
LISN	SCHWARZBECK	NSLK 8129	5021	1 year	2025.4.27
Temperature and humidity meter	1	C193561430	C193561430	1 year	2025.4.27
RE Test - 3M Chamber(Below 10	GHz)				
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025.5.24
Loop antenna(8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2025.6.3
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	1132	1 year	2025.2.27
Horn antenna(1GHz-18GHz)	ETS	3117	227634	1 year	2025.3.24
Horn antenna(18GHz-40GHz)	SCHWARZBECK	BBHA 9170	1003	1 year	2025.3.24
3m anechoic chamber	MORI	966	N/A	1 year	2026.5.18



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Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025.4.28
Attenuator	1	SJ-5dB	607684	1 year	2025.2.4
#1 control room	MORI	433	1	1 year	2026.5.16
Temperature and humidity meter	1	C193561473	C193561473	1 year	2025.4.27

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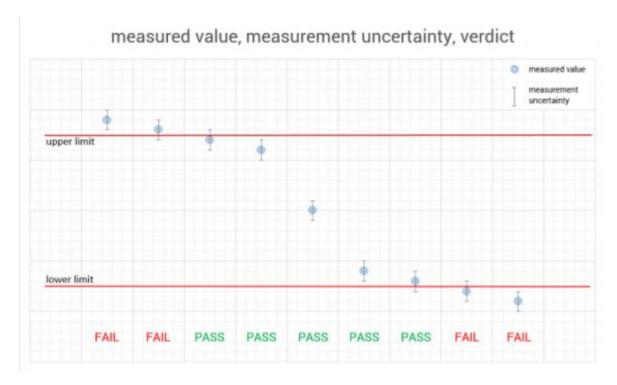
#### 1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty						
1	Conducted emission test	+/-2.7 dB						
2	Radiated emission 9kHz-30MHz	+/-5.6 dB						
3	Radiated emission 30MHz-1GHz	+/-4.6 dB						
4	Radiated emission 1GHz-18GHz	+/-4.4 dB						
5	Radiated emission 18GHz-40GHz	+/-5.1 dB						
6	RF power	+/-0.9 dB						
7	Power Spectral Density	+/-0.8 dB						
8	Conducted spurious emissions	+/-2.7 dB						
9	Transmission Time	+/-0.27%						
10 Occupied Bandwidth +/-1.86%								
Rema	Remark: 95% Confidence Levels, k=2.							

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.



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#### 1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua

District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805 Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn FCC(Test firm designation number: CN1363) IC(Test firm CAB identifier number: CN0137) CNAS(Test firm designation number: L16091) Test Report No.: FCCSZ2025-0008-RF2 Page 10 of 39

# **2 GENERAL INFORMATION**

# 2.1 GENERAL PRODUCT INFORMATION

PRODUCT	viaim RecDot 2		
BRAND	viaim		
TEST MODEL	XFVI-A96		
ADDITIONAL MODEL	N/A		
DOWED SUDDIV	Earphone:		
POWER SUPPLY	DC 3.85V from Li-ion Battery		
MODULATION TYPE	GFSK, π/4 DQPSK, 8DPSK		
OPERATING FREQUENCY	2402MHz~2480MHz		
NUMBER OF CHANNEL	79		
DEAK OUTDUT DOMED	7.38dBm for left		
PEAK OUTPUT POWER	7.80dBm for Right		
ANTENNA TYPE (Parente 5)	Left: LDSAntenna, with -2.52dBi gain		
ANTENNA TYPE (Remark 5)	Right: LDS Antenna, with -1.97dBi gain		
FIX FREQUENCY SOFTWARE	BQB.exe		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		

#### Note:

- 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. EUT photo refer to the report (Report NO.: FCCSZ2025-0008-EUT).
- 4. Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 5. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.

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#### 2.2 OTHER INFORMATION

Operation frequency each of channel.

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

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

	orial mon. Therefore emy the data of the test enamed were recorded in the report.						
For BT (GFSK, π/4 DQPSK, 8 DPSK)							
DH5 2DH5 3DH5							
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING		
0	3	0	3	0	3		
39	3	39	3	39	3		
78	3	78	3	78	3		

2. By means of test software which provided by manufacture, the power levels during the tests were set

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### 2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

The worst case was found when positioned on xaxis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

GFSK,  $\pi/4$  DQPSK, 8DPSK was tested, the APCM of .GFSK,  $\pi/4$  DQPSK, 8DPSK was recorded. The the radiated emission of GFSK was worst,the report only present the results.

EUT	APF	PLICABLE	TEST ITE	MS	
CONFIGURE MODE		RSE≥1G	PLC	АРСМ	DESCRIPTION
Α	√	√	<b>V</b>	<b>V</b>	BT LINK

Where RSE<1G: Radiated Emission below 1GHz.RSE≥1G: Radiated Emission above 1GHz.

PLC: Power Line Conducted Emission.APCM: Antenna Port Conducted Measurement.

#### **RADIATED EMISSION TEST (BELOW 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY		PACKET TYPE
А	0	FHSS	GFSK	DH5

#### **RADIATED EMISSION TEST (ABOVE 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL MODULATION TECHNOLOGY		MODULATION TYPE	PACKET TYPE	
А	0, 39, 78	FHSS	GFSK	DH5	
Α	0, 39, 78	FHSS	π/4 DQPSK	2DH5	
A	0, 39, 78	FHSS	8DPSK	3DH5	

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#### POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
-	BT Link

#### **ANTENNA PORT CONDUCTED MEASUREMENT:**

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL MODULATION TECHNOLOGY		MODULATION TYPE	PACKET TYPE	
А	0, 39, 78	FHSS	GFSK	DH5	
Α	0, 39, 78	FHSS	π/4 DQPSK	2DH5	
Α	0, 39, 78	FHSS	8DPSK	3DH5	

#### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY	
RSE<1G	24deg. C, 55%RH	DC 3.85V	Wang Zhiming	
RSE≥1G	24deg. C, 55%RH	DC 3.85V	LiuYuan	
PLC	24deg. C, 55%RH	DC 3.85V	Wang Zhiming	
APCM	25deg. C, 58%RH	DC 3.85V	Cai Jianvu	

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### 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC PART 15, Subpart C. Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards

# 2.5 DESCRIPTION OF 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.

Garing	Our and Familian at								
	Support Equipment								
NO	Description	Br	and	Model No.	Model No. Serial Num		Supplied by		
N/A	N/A	N	I/A	N/A	N/A	١	N/A		
N/A	N/A	N	I/A	N/A	N/A	\	N/A		
	Support Cable								
NO	Description	Quantity (Number)	Length (m)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

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# 3 TEST TYPES AND RESULTS

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### 3.1.1 Limit

Frequency	Conducted Limits(dBµV)				
(MHz)	Quasi-peak	Average			
0.15 - 0.5	66 to 56 *	56 to 46*			
0.5 - 5	56	46			
5 - 30	60	50			

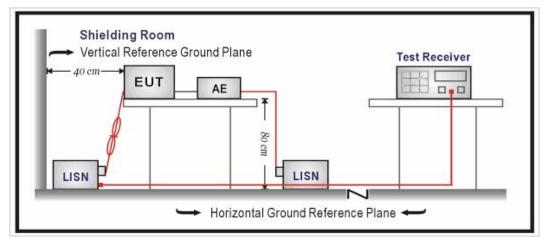
NOTE: 1. The lower limit shall apply at the transition frequencies.

NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 3.1.2 Measurement procedure

- a. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be 1.5m above the ground,
- b. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- c. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

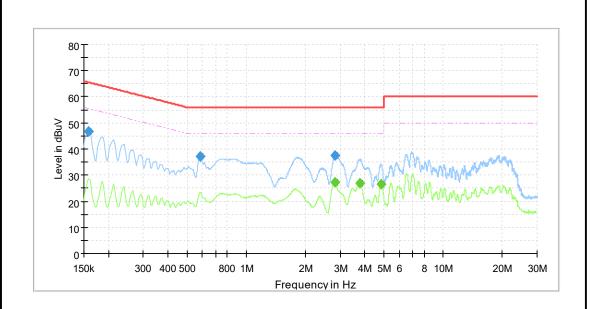
# 3.1.3 Test setup



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#### 3.1.4 Test results

Test Mode	BT Link	Frequency Range	150KHz ~ 30MHz
PHASE	Line (L)		



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.159	46.6		65.5	19.0	L1	20.2
2	0.584	37.2		56.0	18.8	L1	20.3
3	2.816		27.3	46.0	18.7	L1	21.0
4	2.832	37.5		56.0	18.5	L1	21.0
5	3.784		27.1	46.0	18.9	L1	21.4
6	4.848		26.7	46.0	19.3	L1	21.9
	•	•		•		•	

Remark: The emission levels of other frequencies were very low against the limit.

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Test Mo	Mode BT Link			Frequency Range 150KHz ~ 30MHz				
PHASE Line (N)								
	80 70 60 90 90 90 90 90 90 90 90 90 90 90 90 90							
NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)	
1	0.159	48.8		65.5	16.8	N	20.1	
2	0.186	46.8		64.2	17.4	N	20.2	
3	0.211	45.6		63.2	17.6	N	20.2	
4	0.584		30.2	46.0	15.8	N	20.2	
5	1.858		29.4	46.0	16.6	N	20.6	
6	2.882		29.6	46.0	16.4	N	21.0	
Remark	:: The emission le	evels of other f	requencies	were very low a	gainst the	e limit.		

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#### 3.2 RADIATED EMISSIONS

#### **3.2.1 Limits**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/Meter)	MEASUREMENT DISTANCE (Meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE: 1. The lower limit shall apply at the transition frequencies.

NOTE: 2. Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .

NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### 3.2.2 Measurement procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f.For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

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#### NOTE:

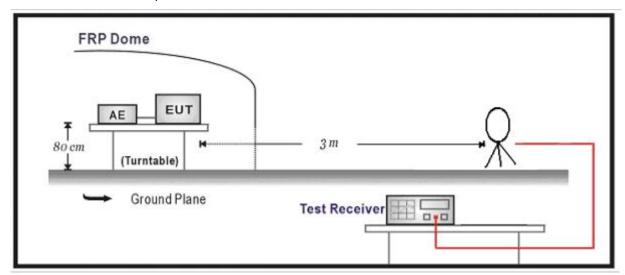
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.



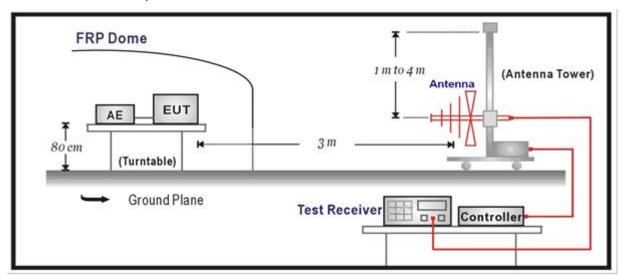
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#### 3.2.3 Test setup

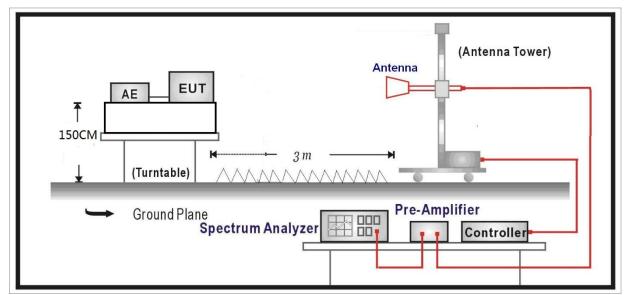
Below 30MHz Test Setup:



Below 1GHz Test Setup:



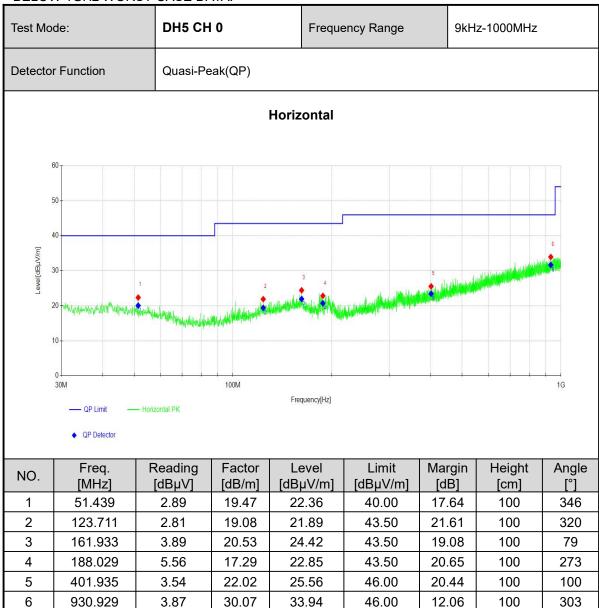
Above 1GHz Test Setup:



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#### 3.2.4 Test results

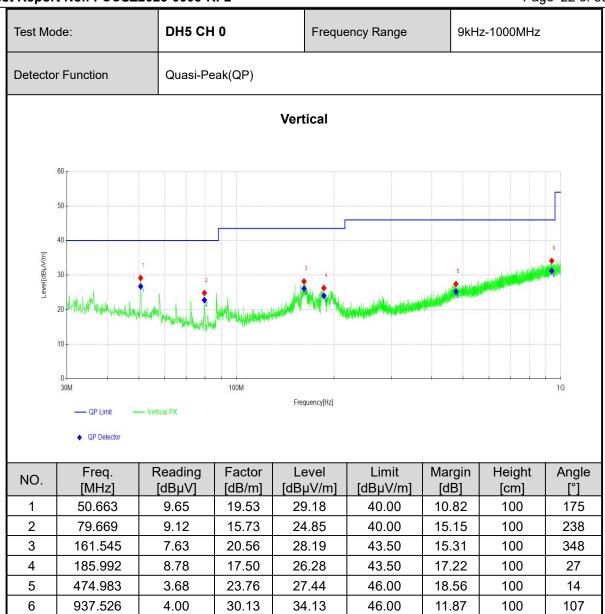
#### BELOW 1GHz WORST-CASE DATA:



Remark: 1. The emission levels of 9k - 30MHz were greater than 20dB margin.

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dBμV/m] Level [dBμV/m]

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Remark: 1.The emission levels of 9k - 30MHz were greater than 20dB margin.

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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#### **ABOVE 1GHz DATA**

All test modes have been conducted, and the report only presents the worst case.

#### **GFSK-Left**

Channel	DH5 CH0	Frequency	2402MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2363.02	40.57	-1.30	39.27	54.00	14.73	AV	Horizontal
2	2385.88	51.03	-1.43	49.60	74.00	24.40	PK	Horizontal
3	2390.00	39.23	-1.37	37.86	54.00	16.14	AV	Horizontal
4	2390.00	48.46	-1.37	47.09	74.00	26.91	PK	Horizontal
5	2401.84	97.87	-1.26	96.61			AV	Horizontal
6	2402.04	97.51	-1.26	96.25			PK	Horizontal
7	4804.00	42.07	9.19	51.26	74.00	22.74	PK	Horizontal
8	4804.00	34.28	9.19	43.47	54.00	10.53	AV	Horizontal
9	7206.00	27.98	14.32	42.30	74.00	31.70	PK	Horizontal
10	7206.00	19.97	14.32	34.29	54.00	19.71	AV	Horizontal
11	9608.00	27.19	14.44	41.63	74.00	32.37	PK	Horizontal
12	9608.00	19.91	14.44	34.35	54.00	19.65	AV	Horizontal
13	2380.98	40.75	-1.52	39.23	54.00	14.77	AV	Vertical
14	2381.59	51.04	-1.51	49.53	74.00	24.47	PK	Vertical
15	2390.00	39.51	-1.37	38.14	54.00	15.86	AV	Vertical
16	2390.00	48.95	-1.37	47.58	74.00	26.42	PK	Vertical
17	2401.84	97.75	-1.26	96.49			PK	Vertical
18	2401.99	97.35	-1.26	96.09			AV	Vertical
19	4804.00	41.75	9.19	50.94	74.00	23.06	PK	Vertical
20	4804.00	34.05	9.19	43.24	54.00	10.76	AV	Vertical
21	7206.00	20.25	14.32	34.57	54.00	19.43	AV	Vertical
22	7206.00	28.85	14.32	43.17	74.00	30.83	PK	Vertical
23	9608.00	28.47	14.44	42.91	74.00	31.09	PK	Vertical
24	9608.00	19.63	14.44	34.07	54.00	19.93	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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Channel	DH5 CH39	Frequency	2441MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	4882.00	42.24	9.79	52.03	74.00	21.97	PK	Horizontal
2	4882.00	34.04	9.79	43.83	54.00	10.17	AV	Horizontal
3	7323.00	20.69	12.61	33.30	54.00	20.70	AV	Horizontal
4	7323.00	28.68	12.61	41.29	74.00	32.71	PK	Horizontal
5	9764.00	26.43	14.76	41.19	74.00	32.81	PK	Horizontal
6	9764.00	19.17	14.76	33.93	54.00	20.07	AV	Horizontal
7	4882.00	42.00	9.79	51.79	74.00	22.21	PK	Vertical
8	4882.00	34.14	9.79	43.93	54.00	10.07	AV	Vertical
9	7323.00	21.26	12.61	33.87	54.00	20.13	AV	Vertical
10	7323.00	29.03	12.61	41.64	74.00	32.36	PK	Vertical
11	9764.00	28.34	14.76	43.10	74.00	30.90	PK	Vertical
12	9764.00	19.27	14.76	34.03	54.00	19.97	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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Channel	DH5 CH78	Frequency	2480MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2479.99	94.99	-1.31	93.68			AV	Horizontal
2	2480.07	95.30	-1.31	93.99			PK	Horizontal
3	2483.50	44.30	-1.15	43.15	74.00	30.85	PK	Horizontal
4	2483.50	36.39	-1.15	35.24	54.00	18.76	AV	Horizontal
5	2484.96	38.50	-1.07	37.43	54.00	16.57	AV	Horizontal
6	2493.50	47.55	-0.90	46.65	74.00	27.35	PK	Horizontal
7	4960.00	40.97	10.78	51.75	74.00	22.25	PK	Horizontal
8	4960.00	33.84	10.78	44.62	54.00	9.38	AV	Horizontal
9	7440.00	29.53	11.55	41.08	74.00	32.92	PK	Horizontal
10	7440.00	21.00	11.55	32.55	54.00	21.45	AV	Horizontal
11	9920.00	27.60	15.37	42.97	74.00	31.03	PK	Horizontal
12	9920.00	19.53	15.37	34.90	54.00	19.10	AV	Horizontal
13	2479.84	94.82	-1.30	93.52			PK	Vertical
14	2479.98	94.44	-1.31	93.13			AV	Vertical
15	2483.50	44.78	-1.15	43.63	74.00	30.37	PK	Vertical
16	2483.50	36.72	-1.15	35.57	54.00	18.43	AV	Vertical
17	2487.96	47.39	-0.94	46.45	74.00	27.55	PK	Vertical
18	2489.88	37.79	-0.85	36.94	54.00	17.06	AV	Vertical
19	4960.00	41.65	10.78	52.43	74.00	21.57	PK	Vertical
20	4960.00	33.67	10.78	44.45	54.00	9.55	AV	Vertical
21	7440.00	28.39	11.55	39.94	74.00	34.06	PK	Vertical
22	7440.00	21.00	11.55	32.55	54.00	21.45	AV	Vertical
23	9920.00	27.67	15.37	43.04	74.00	30.96	PK	Vertical
24	9920.00	19.85	15.37	35.22	54.00	18.78	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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# **GFSK-Right**

Channel	DH5 CH0	Frequency	2402MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2386.94	50.81	-1.42	49.39	74.00	24.61	PK	Horizontal
2	2387.08	40.66	-1.42	39.24	54.00	14.76	AV	Horizontal
3	2390.00	39.62	-1.37	38.25	54.00	15.75	AV	Horizontal
4	2390.00	48.52	-1.37	47.15	74.00	26.85	PK	Horizontal
5	2401.85	97.60	-1.26	96.34			AV	Horizontal
6	2401.85	97.93	-1.26	96.67			PK	Horizontal
7	4804.00	42.07	9.19	51.26	74.00	22.74	PK	Horizontal
8	4804.00	34.59	9.19	43.78	54.00	10.22	AV	Horizontal
9	7206.00	20.61	14.32	34.93	54.00	19.07	AV	Horizontal
10	7206.00	27.85	14.32	42.17	74.00	31.83	PK	Horizontal
11	9608.00	28.18	14.44	42.62	74.00	31.38	PK	Horizontal
12	9608.00	19.77	14.44	34.21	54.00	19.79	AV	Horizontal
13	2383.08	50.67	-1.48	49.19	74.00	24.81	PK	Vertical
14	2383.69	40.63	-1.47	39.16	54.00	14.84	AV	Vertical
15	2390.00	39.95	-1.37	38.58	54.00	15.42	AV	Vertical
16	2390.00	48.30	-1.37	46.93	74.00	27.07	PK	Vertical
17	2401.82	97.82	-1.26	96.56			PK	Vertical
18	2401.87	97.45	-1.26	96.19			AV	Vertical
19	4804.00	42.81	9.19	52.00	74.00	22.00	PK	Vertical
20	4804.00	34.48	9.19	43.67	54.00	10.33	AV	Vertical
21	7206.00	20.73	14.32	35.05	54.00	18.95	AV	Vertical
22	7206.00	28.08	14.32	42.40	74.00	31.60	PK	Vertical
23	9608.00	27.36	14.44	41.80	74.00	32.20	PK	Vertical
24	9608.00	19.79	14.44	34.23	54.00	19.77	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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Channel	DH5 CH39	Frequency	2441MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	4882.00	42.62	9.79	52.41	74.00	21.59	PK	Horizontal
2	4882.00	34.68	9.79	44.47	54.00	9.53	AV	Horizontal
3	7323.00	20.76	12.61	33.37	54.00	20.63	AV	Horizontal
4	7323.00	28.70	12.61	41.31	74.00	32.69	PK	Horizontal
5	9764.00	27.05	14.76	41.81	74.00	32.19	PK	Horizontal
6	9764.00	19.32	14.76	34.08	54.00	19.92	AV	Horizontal
7	4882.00	43.10	9.79	52.89	74.00	21.11	PK	Vertical
8	4882.00	34.26	9.79	44.05	54.00	9.95	AV	Vertical
9	7323.00	20.68	12.61	33.29	54.00	20.71	AV	Vertical
10	7323.00	30.46	12.61	43.07	74.00	30.93	PK	Vertical
11	9764.00	27.24	14.76	42.00	74.00	32.00	PK	Vertical
12	9764.00	19.87	14.76	34.63	54.00	19.37	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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Channel	DH5 CH78	Frequency	2480MHz
Frequency Range	Above 1G	Detector Function	PK/AV

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2479.84	95.22	-1.30	93.92			PK	Horizontal
2	2479.94	94.83	-1.31	93.52			AV	Horizontal
3	2483.50	44.38	-1.15	43.23	74.00	30.77	PK	Horizontal
4	2483.50	36.84	-1.15	35.69	54.00	18.31	AV	Horizontal
5	2488.39	38.19	-0.91	37.28	54.00	16.72	AV	Horizontal
6	2495.06	47.07	-0.94	46.13	74.00	27.87	PK	Horizontal
7	4960.00	42.80	10.78	53.58	74.00	20.42	PK	Horizontal
8	4960.00	33.91	10.78	44.69	54.00	9.31	AV	Horizontal
9	7440.00	21.47	11.55	33.02	54.00	20.98	AV	Horizontal
10	7440.00	30.24	11.55	41.79	74.00	32.21	PK	Horizontal
11	9920.00	28.44	15.37	43.81	74.00	30.19	PK	Horizontal
12	9920.00	19.52	15.37	34.89	54.00	19.11	AV	Horizontal
13	2479.83	94.91	-1.30	93.61			PK	Vertical
14	2479.84	94.54	-1.30	93.24			AV	Vertical
15	2483.50	44.99	-1.15	43.84	74.00	30.16	PK	Vertical
16	2483.50	37.95	-1.15	36.80	54.00	17.20	AV	Vertical
17	2487.33	38.17	-0.97	37.20	54.00	16.80	AV	Vertical
18	2488.75	47.08	-0.89	46.19	74.00	27.81	PK	Vertical
19	4960.00	41.91	10.78	52.69	74.00	21.31	PK	Vertical
20	4960.00	33.97	10.78	44.75	54.00	9.25	AV	Vertical
21	7440.00	29.76	11.55	41.31	74.00	32.69	PK	Vertical
22	7440.00	21.11	11.55	32.66	54.00	21.34	AV	Vertical
23	9920.00	27.59	15.37	42.96	74.00	31.04	PK	Vertical
24	9920.00	19.70	15.37	35.07	54.00	18.93	AV	Vertical

- 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
- 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 4. Margin(dB) = Limit[dB $\mu$ V/m] Level [dB $\mu$ V/m]

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#### 3.3 NUMBER OF HOPPING FREQUENCY USED

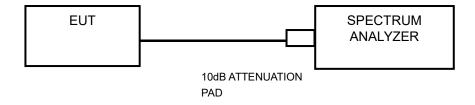
#### **3.3.1 Limits**

At least 15 channels frequencies, and should be equally spaced.

### 3.3.2 Measurement procedure

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

#### 3.3.3 Test setup



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#### 3.4 DWELL TIME ON EACH CHANNEL

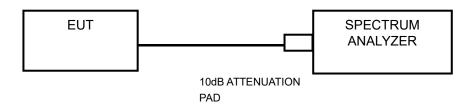
#### **3.4.1 Limits**

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

#### 3.4.2 Measurement procedure

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

#### 3.4.3 Test setup



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#### 3.5 20DB EMISSION BANDWIDTH

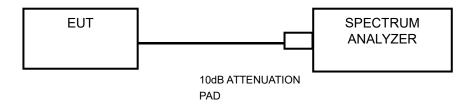
#### 3.5.1 **Limits**

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation

#### 3.5.2 Measurement procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

#### 3.5.3 Test setup



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#### 3.6 HOPPING CHANNEL SEPARATION

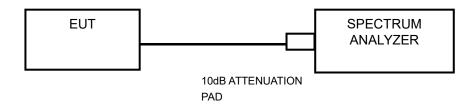
#### 3.6.1 **Limits**

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

### 3.6.2 Measurement procedure

- a. Span: Wide enough to capture the peaks of two adjacent channels.
- b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c. Video (or average) bandwidth (VBW) ≥ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f.Trace: Max hold.
- g. Allow the trace to stabilize.

#### 3.6.3 Test setup



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#### 3.7 CONDUCTED OUTPUT POWER

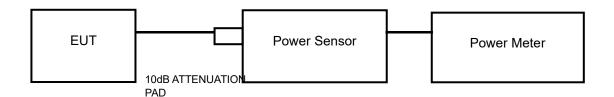
#### 3.7.1 Limits(FCC)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

#### 3.7.2 Measurement procedure

a. A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.

# 3.7.3 Test setup



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#### 3.8 OUT OF BAND EMISSION MEASUREMENT

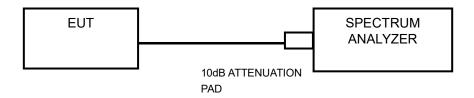
#### **3.8.1 Limits**

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

### 3.8.2 Measurement procedure

The transmitter output was connected to the spectrum analyzer via a low loss cable. of Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

#### 3.8.3 Test setup



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#### 3.9 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.9.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.9.2 TEST SETUP



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#### 3.10 ANTENNA REQUIREMENT

#### 3.10.1 LIMITS

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.10.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is LDS Antenna and that no antenna other than that furnished by the responsible party shall be used with the device

#### 3.10.3 ANTENNA GAIN

The maximum peak gain of the transmit antenna is -1.97 dBi.

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# 4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Photos).

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# 5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos). ----- End of the Report -----

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# **Important**

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

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