



Test Report No.:
FCC2023-0054-RF

RF Test Report

FCC ID : VMIMR4KCAM
EUT : MaxRanger4K™ Solar Wireless
Security Camera
MODEL : NVW-MR4KCAM
BRAND NAME : Swann
APPLICANT : Swann Communications U.S.A. Inc
Classification of Test : N/A

CVC Testing Technology Co., Ltd.



Applicant		Name : Swann Communications U.S.A. Inc Address : 12636 Clark Street Santa Fe Springs California United States 90670			
Manufacturer		Name : Shenzhen Infinova Limited Address : Infinova Building,Guan Lan High Tech Park,Huan Guan Road South. Longhua New District , Shenzhen Guangdong			
Equipment Under Test		Name :MaxRanger4K™ Solar Wireless Security Camera Model/Type: NVW-MR4KCAM Additional Model: N/A Trade mark : Swann Serial NO.:N/A Sample NO.4-1			
Date of Receipt.	2023.08.25	Date of Testing	2023.08.25~2024.01.08		
Test Specification		Test Result			
FCC Part 15, Subpart C, Section 15.247		PASS			
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2024.01.10			
Tested by:  Lu Wei Ji Name Signature		Tested by:  Xu Zhen Fei Name Signature		Approved by:  Chen Hua Wen Name Signature	
Other Aspects: NONE.					
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(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
FCC2023-0054-RF	Original release	2024.01.10



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	REMARK
15.207	AC Power Conducted Emission	PASS	See section 3.1
15.247(d) 15.209	Radiated Emissions	PASS	See section 3.2
15.247(d)	Band Edge Measurement	PASS	Appendix E&F&G of FCC2023-0054-RF-A1
15.247(a)(2)	6dB bandwidth	PASS	Appendix A of FCC2023-0054-RF-A1
--	Occupied Bandwidth Measurement	Report only	Appendix B of FCC2023-0054-RF-A1
15.247(b)	Conducted Output power	PASS	Appendix C of FCC2023-0054-RF-A1
15.247(e)	Power Spectral Density	PASS	Appendix D of FCC2023-0054-RF-A1
15.203	Antenna Requirement	PASS	See section 3.8



1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
WIFI & Bluetooth Test System 1					/
Communication Shielded Room 1	4m*3m*3m	CRTDSWKS44301	VGDS-0699	CRT	2024/04/24
Spectrum Analyzer	FSV40	101579	DZ-000239-3	R&S	2024/04/22
Comprehensive Test Instrument	CMW500	137779	DZ-000220	R&S	2024/07/04
LTE Comprehensive Test Instrument	E7515A	MY58010639	DZ-000173	KEYSIGHT	2024/03/27
Analog Signal Generator	SMA100B	103663	DZ-000239-2	R&S	2024/08/17
Vector Signal Generator	SMBV100B	101757	DZ-000239-1	R&S	2024/05/29
Programmable DC Power Supply	E3642A	MY59108106	DZ-000242-2	KEYSIGHT	2024/08/03
Radiation Spurious Test System					/
3m Semi-Anechoic Chamber	FACT-4	ST08035	WKNA-0024	ETS	2024/12/12
Loop Antenna	FMZB1513	1513-170	EM-000384	SCHWARZBECK	2024/02/22
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2024/02/22
EMI Test Receiver (3M)	N9038A-508	MY532290079	EM-000397	Agilent	2024/06/10
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2024/02/24
Waveguide Horn Antenna	BBHA9120B	602	EM-000383	SCHWARZBECK	2024/08/05
Waveguide Horn Antenna	HF906	360306/008	WKNA-0024-8	R&S	2024/06/04
Comprehensive tester	CMW500	159000	DZ-000240-2	R&S	2024/12/12
Conducted emission					/
EMI Test Receiver	ESW44	103123	EM-000698	R&S	2024-06-10
EMI Test Receiver	ESR3	102394	VG DY-0705	R&S	2024-02-22
LISN	NSLK 8127	8127644	VG DY-0150	SCHWARZBECK	2024-07-27
LISN	NSLK 8128	8128-316	VG DY-0149	SCHWARZBECK	2024-07-27
DC LISN	PVDC8301-017	PVDC8301#17	VG DY-0692	SCHWARZBECK	2024-09-27
LISN	NSLK 8129	8129-268	EM-000388	SCHWARZBECK	2024-02-22
Plus Limiter (#1)	VTSD 9561 F-N	00515	VG DY-0808	SCHWARZBECK	2024-03-03
Plus Limiter (#2)	VTSD 9561	9561-F017	VG DY-0152	SCHWARZBECK	2024-09-03
Impedance Stabilization Network	ISN T800	27095	WKNE-0195	TESEQ	2024-07-27
Impedance Stabilization Network	NTFM8158	8158-0092	VG DY-0356	SCHWARZBECK	2024-05-29
Impedance Stabilization Network	NTFM8131	#184	EM-000498	SCHWARZBECK	2024-05-29
Voltage Probe	TK9420	9420-499	VG DY-0128	SCHWARZBECK	2024-02-22
Power Divider	4901.17.B	22643830	DB-0016	HUBER+SUHNER	2024-07-17
Shielding Room(#1)	GP1A	001	WKNF-0001	LEINING	2024-08-07

1. The calibration interval of the above Shielding room, Anechoic chamber and Control room is 36 months
2. The calibration interval of the above test instruments is 12 months



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	FREQUENCY	UNCERTAINTY
1	Conducted emissions	9kHz~30MHz	±2.66dB
2	Radiated emissions	9KHz ~ 30MHz	±0.769dB
		30MHz ~ 1GMHz	±0.877dB
		1GHz ~ 18GHz	±0.777dB
		18GHz ~ 40GHz	±1.315dB
3	Occupied Bandwidth	/	+/-1.86%

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

1.3 TEST LOCATION

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

Address: No.3,TiantaiyiRoad,KaitaiAvenue,ScienceCity,Guangzhou,China

Post Code: 510663 Tel: 020-32293888

FAX: 020-32293889 E-mail: office@cvc.org.cn

Test Firm Registration Number: 937273

CN Number: 26239 CABID: CN0103



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	MaxRanger4K™ Solar Wireless Security Camera
BRAND	Swann
MODEL	NVW-MR4KCAM
ADDITIONAL MODEL	N/A
POWER SUPPLY	DC 3.6V from Li-ion battery or DC 5V from USB host unit
MODULATION TYPE	OFDM
OPERATING FREQUENCY	903.5MHz~926.5MHz for 1Mbps; 905MHz~925MHz for 2Mbps; 906MHz~922MHz for 4Mbps; 908MHz~916MHz for 8Mbps;
NUMBER OF CHANNEL	See section 2.3
PEAK OUTPUT POWER	903.5MHz~926.5MHz for 21.54dBm (Maximum); 905MHz~925MHz for 23.74dBm (Maximum); 906MHz~922MHz for 24.44dBm (Maximum); 908MHz~916MHz for 26.08dBm (Maximum)
PEAK EIRP POWER	903.5MHz~926.5MHz for 24.46dBm (Maximum); 905MHz~925MHz for 26.66dBm (Maximum); 906MHz~922MHz for 27.36dBm (Maximum); 908MHz~916MHz for 29.00dBm (Maximum)
ANTENNA TYPE	External rod antenna, 2.92dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB line, 1Meter, Shielded without ferrite
Remark: 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.: FCC2023-0054-E). 4. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.	

2.2 DESCRIPTION OF ACCESSORIES

N/A



2.3 OTHER INFORMATION

Operating frequency of each channel

WiFi HaLow 1Mbps					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	903.5	8	911.5	16	919.5
1	904.5	9	912.5	17	920.5
2	905.5	10	913.5	18	921.5
3	906.5	11	914.5	19	922.5
4	907.5	12	915.5	20	923.5
5	908.5	13	916.5	21	924.5
6	909.5	14	917.5	22	925.5
7	910.5	15	918.5	23	926.5

WiFi HaLow 2Mbps					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	905	4	913	6	921
1	907	5	915	7	923
2	909	6	917	8	925
3	911	7	919		

WiFi HaLow 4Mbps					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	906	2	914	4	922
1	910	3	918		

WiFi HaLow 8Mbps					
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	908	1	916	/	/

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

WiFi HaLow							
1Mbps		2Mbps		4Mbps		8Mbps	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
903.5	default	905	default	906	default	908	default
915.5	default	917	default	918	default	916	default
926.5	default	925	default	922	default		



2.4 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

EUT CONFIGURE MODE	APPLICABLE TEST ITEMS				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	√	WiFi HaLow link

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
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.
- ☒ The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
A	0 to 23	0	OFDM	1Mbps

For the test results, only the worst case was shown in test report.

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
A	0 to 23	0,12,23	OFDM	1Mbps
A	0 to 8	0,6,8	OFDM	2Mbps
A	0 to 4	0,3,4	OFDM	4Mbps
A	0 to 1	0,1	OFDM	8Mbps



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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE
A	0 to 23	0,12,23	OFDM	1Mbps
A	0 to 8	0,6,8	OFDM	2Mbps
A	0 to 4	0,3,4	OFDM	4Mbps
A	0 to 1	0,1	OFDM	8Mbps

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	24deg. C, 54%RH	DC 3.6V From battery	Li JiaLing
RE≥1G	24deg. C, 54%RH	DC 3.6V From battery	Li JiaLing
PLC	24deg. C, 55%RH	DC 3.6V From battery	Li JiaLing
APCM	24deg. C, 55%RH	DC 3.6V From battery	Li JiaLing



2.5 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

2.6 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.

Training and tests:

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	Laptop	Lenovo	V14	PFNXB1628023	Lab		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	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

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 Limit

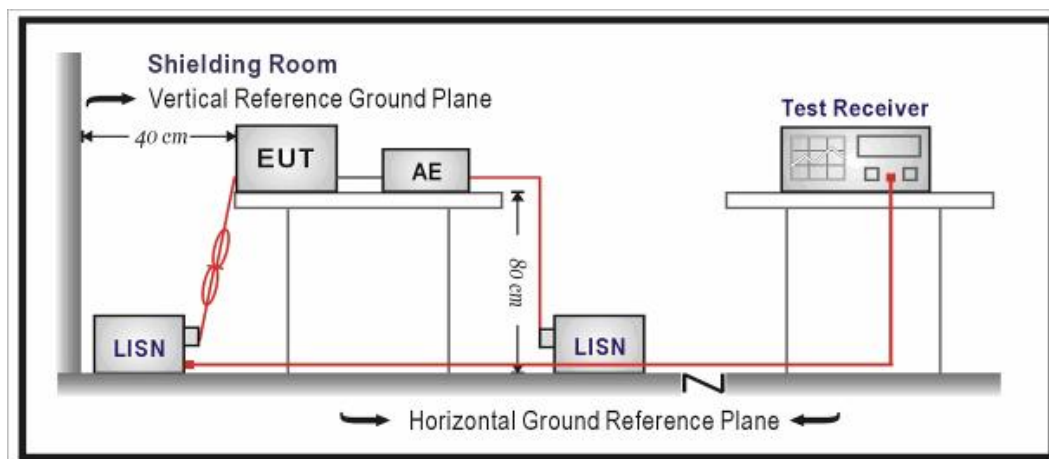
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

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.

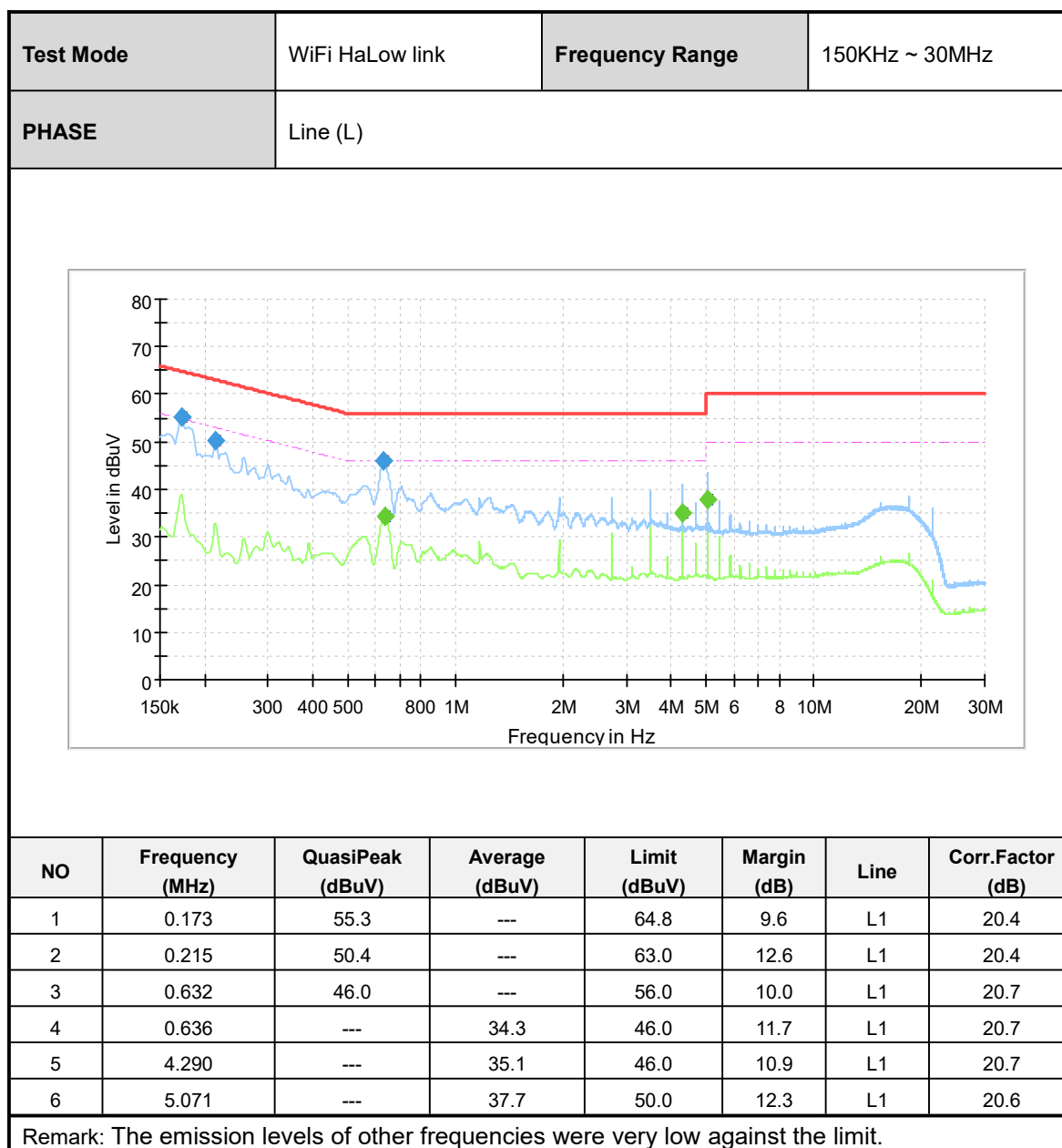
3.1.2 Measurement procedure

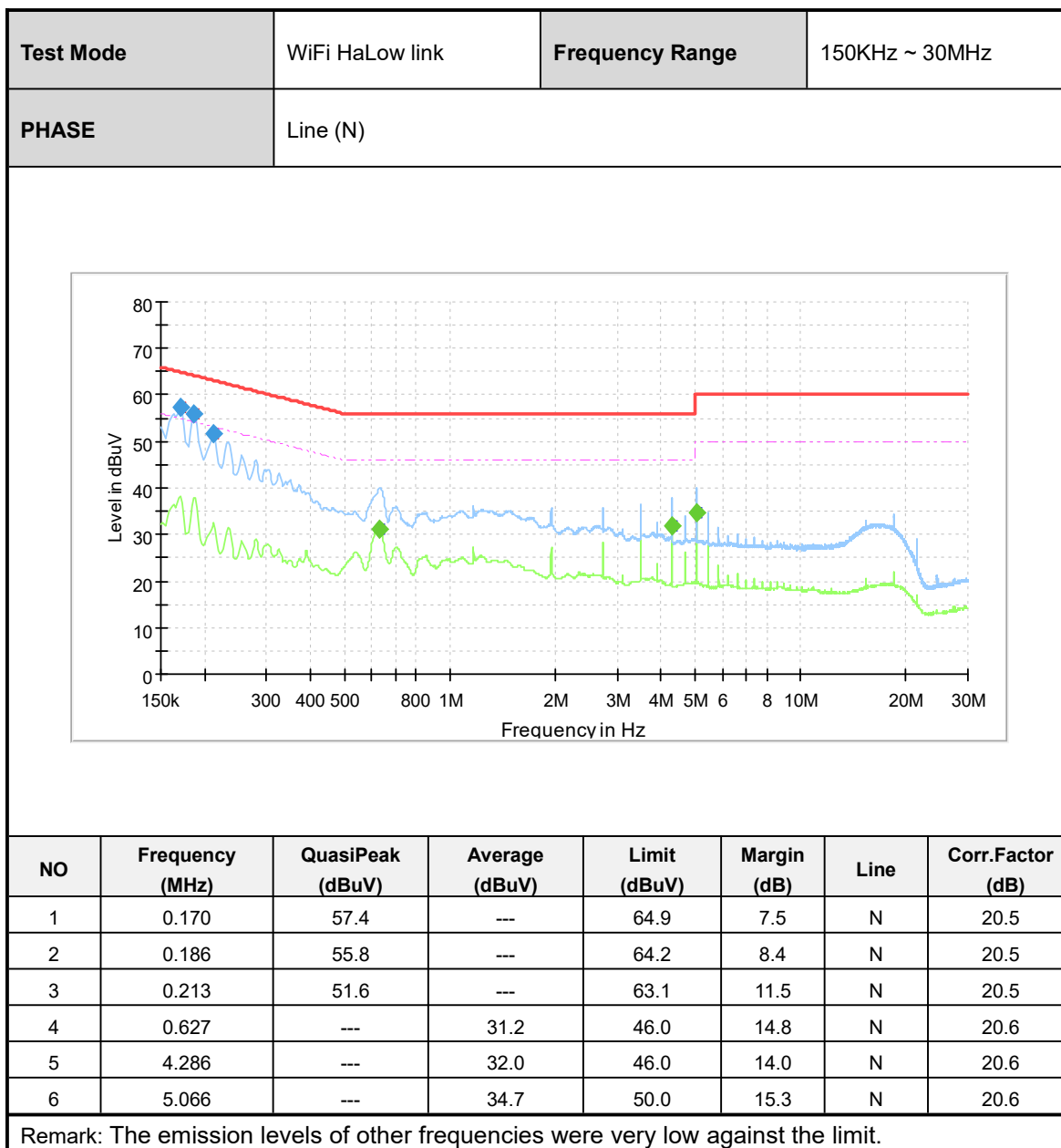
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are 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,
- 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.
- 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



3.1.4 Test results





3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 Limit

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).

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

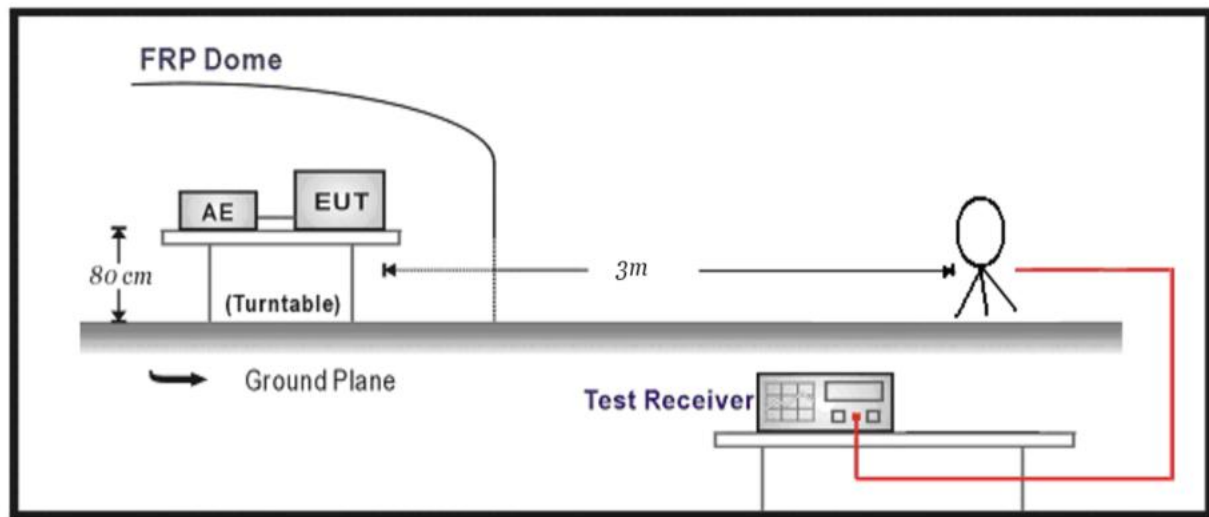
- The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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.

NOTE:

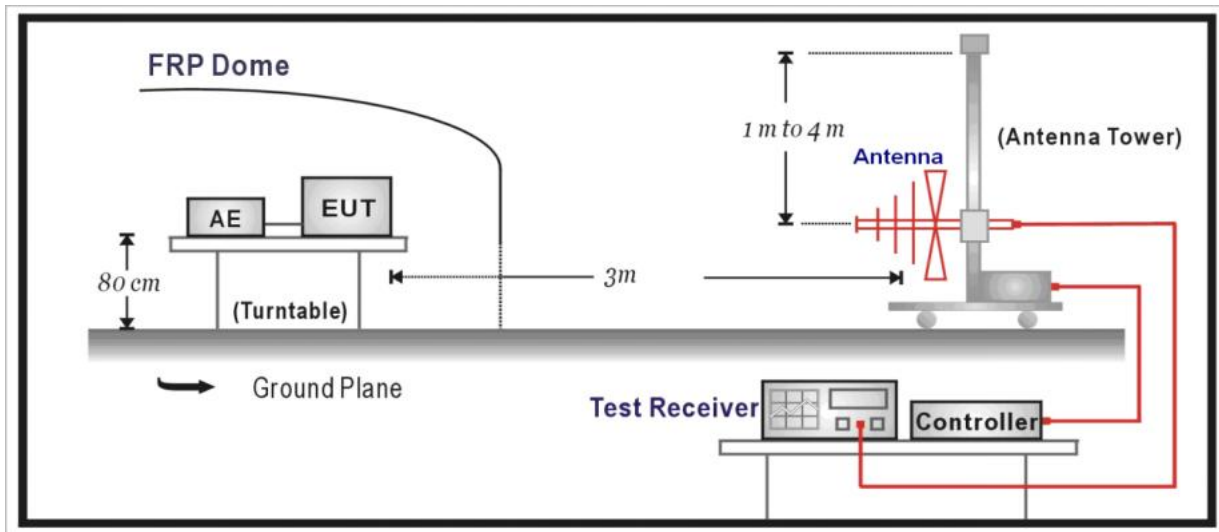
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (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.

3.2.3 Test setup

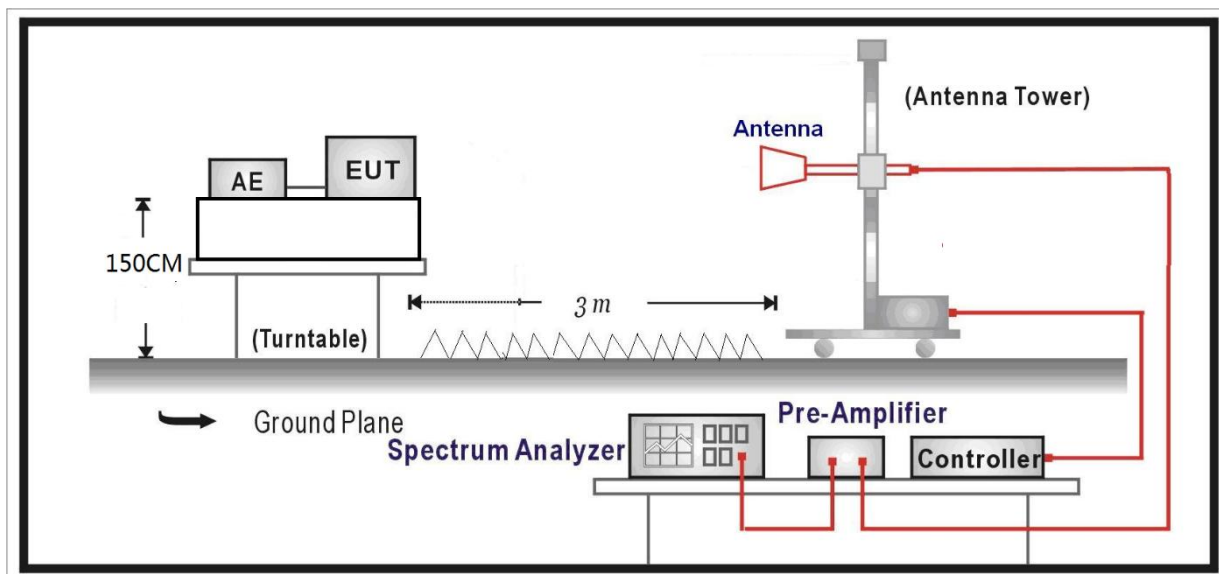
Below 30MHz Test Setup:



Below 1GHz Test Setup:

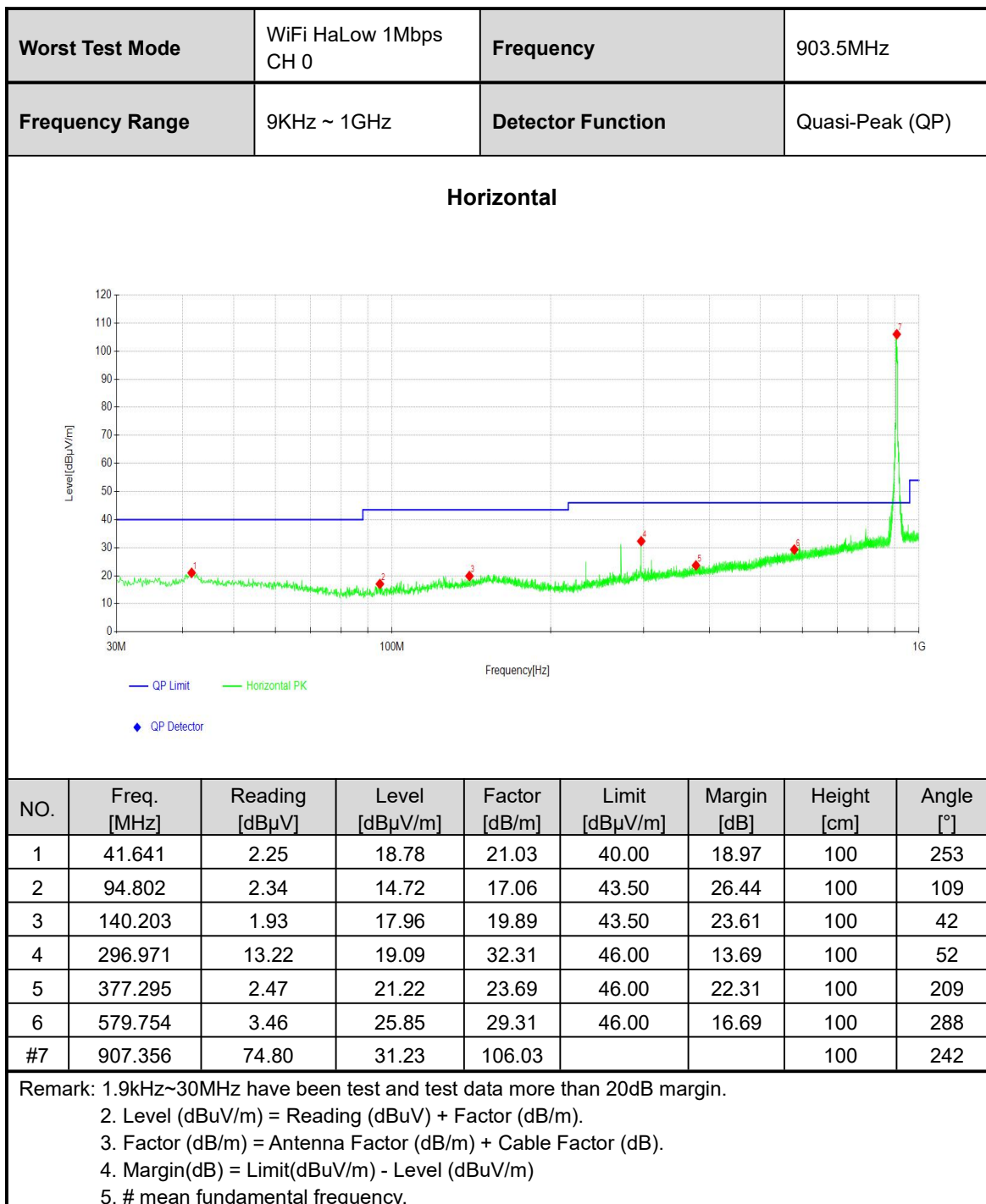


Above 1GHz Test Setup:



3.2.4 Test results

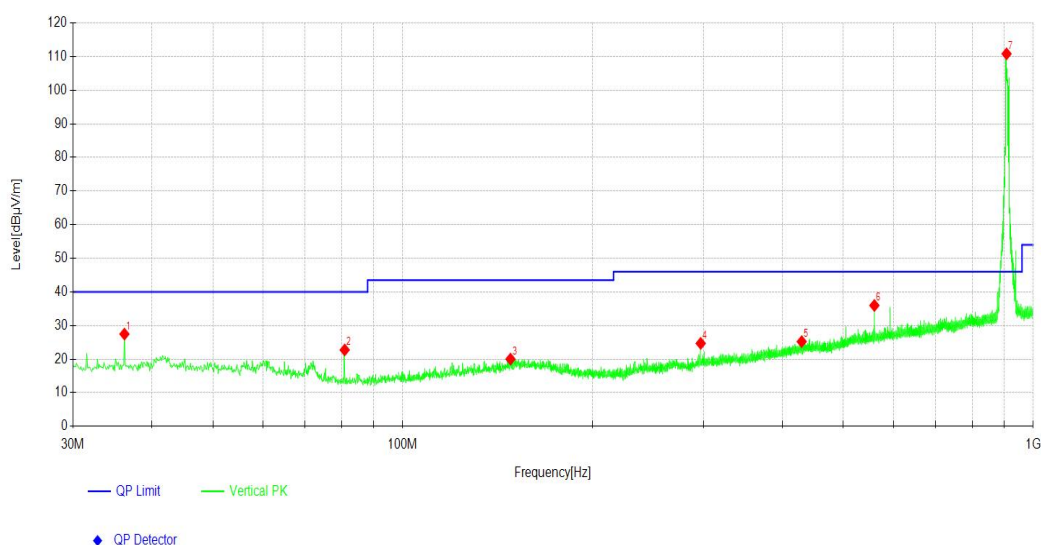
BELOW 1GHz WORST-CASE DATA:





Worst Test Mode	WiFi HaLow 1Mbps CH 0	Frequency	903.5MHz
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Vertical



NO.	Freq. [MHz]	Reading [dBuV]	Level [dBuV/m]	Factor [dB/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]
1	36.209	9.02	18.44	27.46	40.00	12.54	100	314
2	80.930	8.37	14.37	22.74	40.00	17.26	100	314
3	148.255	0.86	19.15	20.01	43.50	23.49	100	154
4	296.971	5.60	19.09	24.69	46.00	21.31	100	259
5	429.389	2.26	22.96	25.22	46.00	20.78	100	158
6	559.964	10.37	25.60	35.97	46.00	10.03	100	85
#7	907.259	79.59	31.23	110.82			100	111

Remark: 1.9kHz~30MHz have been test and test data more 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(dBuV/m) - Level (dBuV/m)

5. # mean fundamental frequency.



ABOVE 1GHz DATA

Channel		WiFi HaLow 1Mbps CH 0			Frequency		903.5MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1807.00	42.06	7.74	49.80	54.00	4.20	400	81	AV
2	1807.00	55.19	7.74	62.93	74.00	11.07	100	81	PK
3	2710.50	45.21	11.23	56.44	74.00	17.56	400	218	PK
4	2710.50	35.84	11.23	47.07	54.00	6.93	400	60	AV
5	3614.00	34.72	7.24	41.96	54.00	12.04	300	209	AV
6	3614.00	42.96	7.24	50.20	74.00	23.80	300	320	PK
Vertical									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1807.00	39.68	7.74	47.42	54.00	6.58	300	196	AV
2	1807.00	48.89	7.74	56.63	74.00	17.37	200	262	PK
3	2710.50	44.15	11.23	55.38	74.00	18.62	400	39	PK
4	2710.50	35.87	11.23	47.10	54.00	6.90	300	39	AV
5	3614.00	34.78	7.24	42.02	54.00	11.98	400	171	AV
6	3614.00	43.78	7.24	51.02	74.00	22.98	100	238	PK
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 1Mbps CH 12			Frequency		915.5MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1831.00	47.40	7.86	55.26	74.00	18.74	300	286	PK
2	1831.00	37.46	7.86	45.32	54.00	8.68	400	52	AV
3	2746.50	45.05	11.98	57.03	74.00	16.97	400	282	PK
4	2746.50	36.06	11.98	48.04	54.00	5.96	400	235	AV
5	3662.00	43.33	6.76	50.09	74.00	23.91	400	92	PK
6	3662.00	35.21	6.76	41.97	54.00	12.03	400	187	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1831.00	48.62	7.86	56.48	74.00	17.52	100	288	PK
2	1831.00	38.43	7.86	46.29	54.00	7.71	100	288	AV
3	2746.50	35.54	11.98	47.52	54.00	6.48	100	148	AV
4	2746.50	43.34	11.98	55.32	74.00	18.68	200	144	PK
5	3662.00	43.68	6.76	50.44	74.00	23.56	200	52	PK
6	3662.00	35.20	6.76	41.96	54.00	12.04	100	214	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 1Mbps CH 23			Frequency		926.5MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1853.00	45.73	8.01	53.74	74.00	20.26	300	128	PK
2	1853.00	37.05	8.01	45.06	54.00	8.94	100	224	AV
3	2779.50	36.40	11.25	47.65	54.00	6.35	300	1	AV
4	2779.50	43.99	11.25	55.24	74.00	18.76	400	0	PK
5	3706.00	43.90	7.30	51.20	74.00	22.80	400	342	PK
6	3706.00	35.28	7.30	42.58	54.00	11.42	300	52	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1853.00	47.81	8.01	55.82	74.00	18.18	150	299	PK
2	1853.00	39.60	8.01	47.61	54.00	6.39	150	15	AV
3	2779.50	35.84	11.25	47.09	54.00	6.91	150	340	AV
4	2779.50	44.55	11.25	55.80	74.00	18.20	150	299	PK
5	3706.00	43.20	7.30	50.50	74.00	23.50	150	0	PK
6	3706.00	35.52	7.30	42.82	54.00	11.18	150	32	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 2Mbps CH 0			Frequency		905MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1810.00	51.77	7.76	59.53	74.00	14.47	100	275	PK
2	1810.00	39.79	7.76	47.55	54.00	6.45	100	267	AV
3	2715.00	43.66	11.24	54.90	74.00	19.10	300	254	PK
4	2715.00	35.83	11.24	47.07	54.00	6.93	400	237	AV
5	3620.00	43.92	7.53	51.45	74.00	22.55	100	326	PK
6	3620.00	35.12	7.53	42.65	54.00	11.35	400	69	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1810.00	37.41	7.76	45.17	54.00	8.83	300	259	AV
2	1810.88	52.91	7.76	60.67	74.00	13.33	200	147	PK
3	2715.00	36.91	11.24	48.15	54.00	5.85	300	10	AV
4	2715.00	44.41	11.24	55.65	74.00	18.35	200	14	PK
5	3620.00	35.44	7.53	42.97	54.00	11.03	200	232	AV
6	3620.00	42.71	7.53	50.24	74.00	23.76	200	257	PK
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 2Mbps CH 6			Frequency		917MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1834.00	43.84	7.88	51.72	74.00	22.28	300	131	PK
2	1834.00	36.13	7.88	44.01	54.00	9.99	400	7	AV
3	2751.00	35.89	11.80	47.69	54.00	6.31	300	64	AV
4	2751.00	44.36	11.80	56.16	74.00	17.84	300	35	PK
5	3668.00	43.11	6.77	49.88	74.00	24.12	400	316	PK
6	3668.00	34.67	6.77	41.44	54.00	12.56	200	162	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1834.00	37.59	7.88	45.47	54.00	8.53	100	306	AV
2	1834.28	49.52	7.88	57.40	74.00	16.60	100	294	PK
3	2751.00	44.08	11.80	55.88	74.00	18.12	100	235	PK
4	2751.00	35.86	11.80	47.66	54.00	6.34	300	223	AV
5	3668.00	43.12	6.77	49.89	74.00	24.11	200	198	PK
6	3668.00	34.87	6.77	41.64	54.00	12.36	100	128	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 2Mbps CH 8			Frequency		925MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1850.00	35.89	7.96	43.85	54.00	10.15	200	6	AV
2	1850.00	44.16	7.96	52.12	74.00	21.88	200	350	PK
3	2775.00	43.96	11.19	55.15	74.00	18.85	300	337	PK
4	2775.00	35.64	11.19	46.83	54.00	7.17	400	242	AV
5	3700.00	35.45	7.12	42.57	54.00	11.43	400	11	AV
6	3700.00	43.80	7.12	50.92	74.00	23.08	100	356	PK
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1850.00	37.64	7.96	45.60	54.00	8.40	200	180	AV
2	1850.00	47.38	7.96	55.34	74.00	18.66	200	180	PK
3	2775.00	43.88	11.19	55.07	74.00	18.93	200	6	PK
4	2775.00	35.46	11.19	46.65	54.00	7.35	400	296	AV
5	3700.00	34.80	7.12	41.92	54.00	12.08	200	52	AV
6	3700.00	44.18	7.12	51.30	74.00	22.70	300	230	PK
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 4Mbps CH 0			Frequency		906MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1812.00	35.54	7.77	43.31	54.00	10.69	300	28	AV
2	1812.00	43.94	7.77	51.71	74.00	22.29	100	44	PK
3	2718.00	35.51	11.24	46.75	54.00	7.25	100	354	AV
4	2718.00	43.48	11.24	54.72	74.00	19.28	200	359	PK
5	3624.00	34.81	7.33	42.14	54.00	11.86	200	140	AV
6	3624.00	43.39	7.33	50.72	74.00	23.28	400	314	PK
Vertical									
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1812.00	43.89	7.77	51.66	74.00	22.34	200	110	PK
2	1812.00	36.46	7.77	44.23	54.00	9.77	400	226	AV
3	2718.00	35.56	11.24	46.80	54.00	7.20	200	276	AV
4	2718.00	43.96	11.24	55.20	74.00	18.80	400	1	PK
5	3624.00	43.99	7.33	51.32	74.00	22.68	100	41	PK
6	3624.00	35.60	7.33	42.93	54.00	11.07	400	216	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 4Mbps CH 3			Frequency		918MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1836.00	44.85	7.88	52.73	74.00	21.27	300	292	PK
2	1836.00	36.45	7.88	44.33	54.00	9.67	100	305	AV
3	2754.00	36.26	11.60	47.86	54.00	6.14	100	276	AV
4	2754.00	43.37	11.60	54.97	74.00	19.03	200	284	PK
5	3672.00	42.28	6.75	49.03	74.00	24.97	200	112	PK
6	3672.00	34.70	6.75	41.45	54.00	12.55	300	250	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1836.00	45.53	7.88	53.41	74.00	20.59	200	3	PK
2	1836.00	37.45	7.88	45.33	54.00	8.67	100	3	AV
3	2754.00	36.09	11.60	47.69	54.00	6.31	100	150	AV
4	2754.00	44.68	11.60	56.28	74.00	17.72	300	204	PK
5	3672.00	42.76	6.75	49.51	74.00	24.49	300	248	PK
6	3672.00	35.00	6.75	41.75	54.00	12.25	400	94	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 4Mbps CH 4			Frequency		922MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1844.00	43.66	7.93	51.59	74.00	22.41	100	271	PK
2	1844.00	36.10	7.93	44.03	54.00	9.97	200	180	AV
3	2766.00	35.80	11.18	46.98	54.00	7.02	300	229	AV
4	2766.00	44.05	11.18	55.23	74.00	18.77	300	197	PK
5	3688.00	43.21	6.99	50.20	74.00	23.80	300	148	PK
6	3688.00	35.18	6.99	42.17	54.00	11.83	100	210	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1844.00	36.53	7.93	44.46	54.00	9.54	400	136	AV
2	1844.00	44.63	7.93	52.56	74.00	21.44	100	48	PK
3	2766.00	43.62	11.18	54.80	74.00	19.20	200	336	PK
4	2766.00	36.04	11.18	47.22	54.00	6.78	400	261	AV
5	3688.00	35.26	6.99	42.25	54.00	11.75	300	345	AV
6	3688.00	44.07	6.99	51.06	74.00	22.94	100	62	PK
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 8Mbps CH 0			Frequency		908MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1816.00	47.91	7.79	55.70	74.00	18.30	400	260	PK
2	1816.00	37.86	7.79	45.65	54.00	8.35	200	260	AV
3	2724.00	35.14	11.35	46.49	54.00	7.51	400	235	AV
4	2724.00	43.72	11.35	55.07	74.00	18.93	300	292	PK
5	3632.00	44.02	6.95	50.97	74.00	23.03	300	191	PK
6	3632.00	34.92	6.95	41.87	54.00	12.13	400	353	AV
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1816.00	45.43	7.79	53.22	74.00	20.78	100	267	PK
2	1816.00	36.48	7.79	44.27	54.00	9.73	300	267	AV
3	2724.00	35.43	11.35	46.78	54.00	7.22	100	308	AV
4	2724.00	44.20	11.35	55.55	74.00	18.45	300	279	PK
5	3632.00	43.63	6.95	50.58	74.00	23.42	300	89	PK
6	3632.00	35.39	6.95	42.34	54.00	11.66	100	27	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									



Channel		WiFi HaLow 8Mbps CH 1			Frequency		916MHz		
Frequency Range		1GHz~9.3G			Detector Function		PK/AV		
Horizontal									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1832.00	36.15	7.87	44.02	54.00	9.98	300	286	AV
2	1832.00	43.54	7.87	51.41	74.00	22.59	300	152	PK
3	2748.00	43.55	11.94	55.49	74.00	18.51	100	74	PK
4	2748.00	36.12	11.94	48.06	54.00	5.94	200	127	AV
5	3664.00	35.87	6.76	42.63	54.00	11.37	400	115	AV
6	3664.00	43.88	6.76	50.64	74.00	23.36	200	65	PK
Vertical									
NO	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	1832.00	44.57	7.87	52.44	74.00	21.56	400	31	PK
2	1832.00	36.56	7.87	44.43	54.00	9.57	300	131	AV
3	2748.00	35.65	11.94	47.59	54.00	6.41	400	1	AV
4	2748.00	44.23	11.94	56.17	74.00	17.83	100	353	PK
5	3664.00	43.59	6.76	50.35	74.00	23.65	400	122	PK
6	3664.00	35.28	6.76	42.04	54.00	11.96	100	26	AV
Remark: 1. The emission levels of other frequencies 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(dBuV/m) - Level (dBuV/m)									

3.3 6DB BANDWIDTH MEASUREMENT

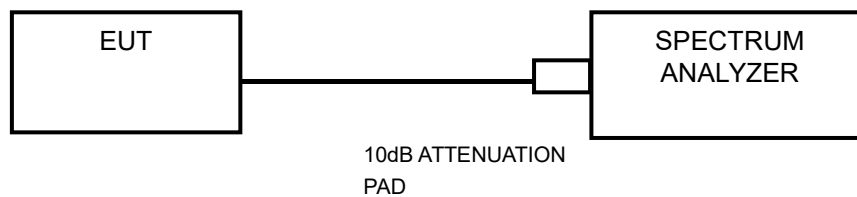
3.3.1 Limits

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 Measurement procedure

- Set resolution bandwidth (RBW) = 100KHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.3 Test setup



3.4 CONDUCTED OUTPUT POWER

3.4.1 Limits

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W.

3.4.2 Measurement procedure

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

$RBW \geq \text{DTS bandwidth}$

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the $RBW \geq \text{DTS bandwidth}$.
- Set $VBW \geq [3 \times RBW]$.
- Set $\text{span} \geq [3 \times RBW]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

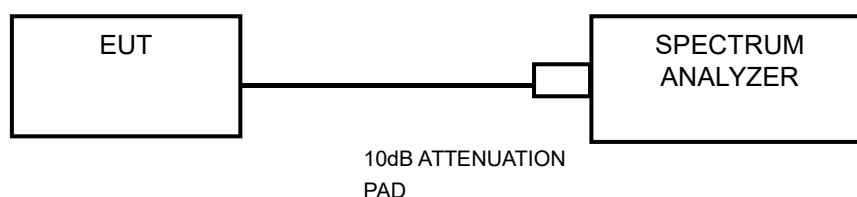
Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- Set the $RBW = 1 \text{ MHz}$.
- Set the $VBW \geq [3 \times RBW]$.
- Set the $\text{span} \geq [1.5 \times \text{DTS bandwidth}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

3.4.3 Test setup



3.5 POWER SPECTRAL DENSITY MEASUREMENT

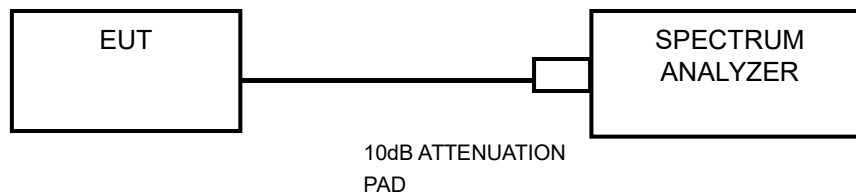
3.5.1 Limits

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 Measurement procedure

- Set instrument center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set RBW to: 3KHz
- Set VBW $\geq 3 \times$ RBW.
- Detector = peak
- Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- Sweep time = auto couple.
- Use the peak marker function to determine the maximum amplitude level.

3.5.3 Test setup



3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 Limits

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 Measurement procedure

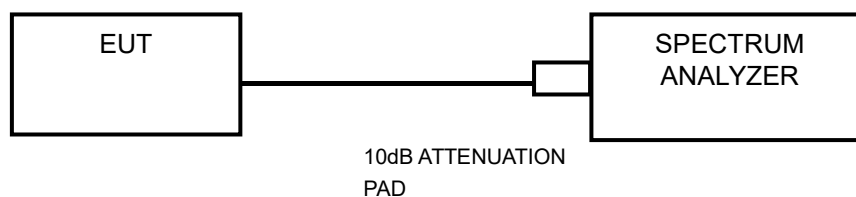
Measurement Procedure -Reference Level

- Set the RBW = 100 kHz.
- Set the VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

Measurement Procedure –Unwanted Emission Level

- Set RBW = 100 kHz.
- Set VBW $\geq$ 300 kHz.
- Set span to encompass the spectrum to be examined
- Detector = peak.
- Trace Mode = max hold.
- Sweep = auto couple.

3.6.3 Test setup



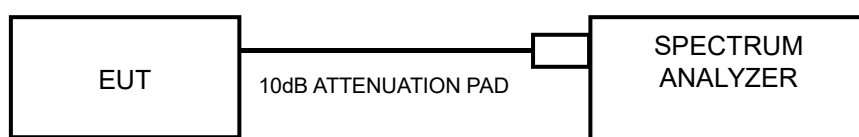
3.7 OCCUPIED BANDWIDTH MEASUREMENT

3.7.1 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.

3.7.2 TEST SETUP





3.8 ANTENNA REQUIREMENT

3.8.1 Limits of frequency stability

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.

3.8.2 Antenna Anti-Replacement Construction

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

3.8.3 Antenna Gain

The maximum peak gain of the transmit antenna is 2.92 dBi.



4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).



5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

----- End of the Report -----



Important

- (1) The test report is valid 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”

***The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented. ***

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