



Radio Test Report

Report No.: STS2411073W02

Issued for

Caddx Technology (Shenzhen) Co., Ltd.

13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street,
Longgang District, Shenzhen City, Guangdong Province,
China.

Product Name: Avatar HD Goggles L

Brand Name: WALKSNAIL

Model Name: WN02-FP004

Series Model(s): N/A

FCC ID: 2BHG9-FP004

Test Standard: FCC Part15.407

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.

**TEST REPORT**

Applicant's Name: Caddx Technology (Shenzhen) Co., Ltd.
Address: 13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street,
Longgang District, Shenzhen City, Guangdong Province, China.
Manufacturer's Name: Caddx Technology (Shenzhen) Co., Ltd.
Address: 13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street,
Longgang District, Shenzhen City, Guangdong Province, China.

Product Description

Product Name: Avatar HD Goggles L
Brand Name: WALKSNAIL
Model Name: WN02-FP004
Series Model(s): N/A

Test Standards: FCC Part15.407

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: 14 Nov. 2024

Date (s) of performance of tests: 14 Nov. 2024~09 Dec. 2024

Date of Issue: 09 Dec. 2024

Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Tony Liu

(Tony Liu)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	09 Dec. 2024	STS2411073W02	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	Complies
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	Complies
15.407(a)	Maximum Conducted Output Power	Complies
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	Complies
15.407(a)	Power Spectral Density	Complies
15.407(c)	Automatically Discontinue Transmission	Complies
15.203/15.204	Antenna Requirement	Complies

NOTE:

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



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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Avatar HD Goggles L	
Brand Name	WALKSNAIL	
Model Name	WN02-FP004	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Avatar HD Goggles L	
	Operation Frequency:	5735MHz-5839MHz
	Modulation Type:	OFDM
	Antenna Designation:	See Note 2
	Max.Output Power(Conducted):	8.32dBm
	More details of EUT technical specification, please refer to the User Manual.	
Test Channel	Please refer to the Note 2.	
Power Rating	Input:6V-25.2V	
Adapter	N/A	
Battery	N/A	
Hardware version number	5.9	
Software version number	38.43.8	
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.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5735	2	5770	3	5805	4	5839

Note:

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

Carrier Frequency Channel

5GHz:

Test channel			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
1	5735	2	5770
3	5805	4	5839

3. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

a) Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

(i) If any transmit signals are correlated with each other,

Directional gain = $GANT + 10 \log(NANT)$ dBi

(ii) If all transmit signals are completely uncorrelated with each other,

Directional gain = GANT

Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
A	XIN ER SHENG	WT01-R0053	LHCP	N/A	6.84	WLAN Ant

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

2.2 DESCRIPTION OF TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TXCH01	OFDM
Mode 2	TXCH02	OFDM
Mode 3	TXCH03	OFDM
Mode 4	TXCH04	OFDM

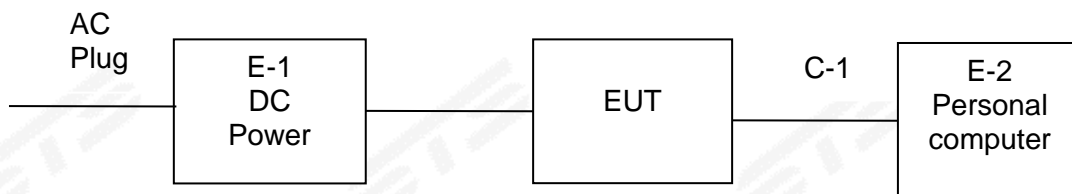
Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and DC 12V) for which the device is capable of operation.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-2	Personal computer	DELL	Inspiron 3501	N/A
E-1	DC Power	Agilent	DPS-305AF	N/A
C-1	USB Cable	WALKSNAIL	WN02-FP004	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

**2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS**

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
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	HONGSHENGFENG	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW	MTS 8310_2.0.0.0			

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

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

The following table is the setting of the receiver

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

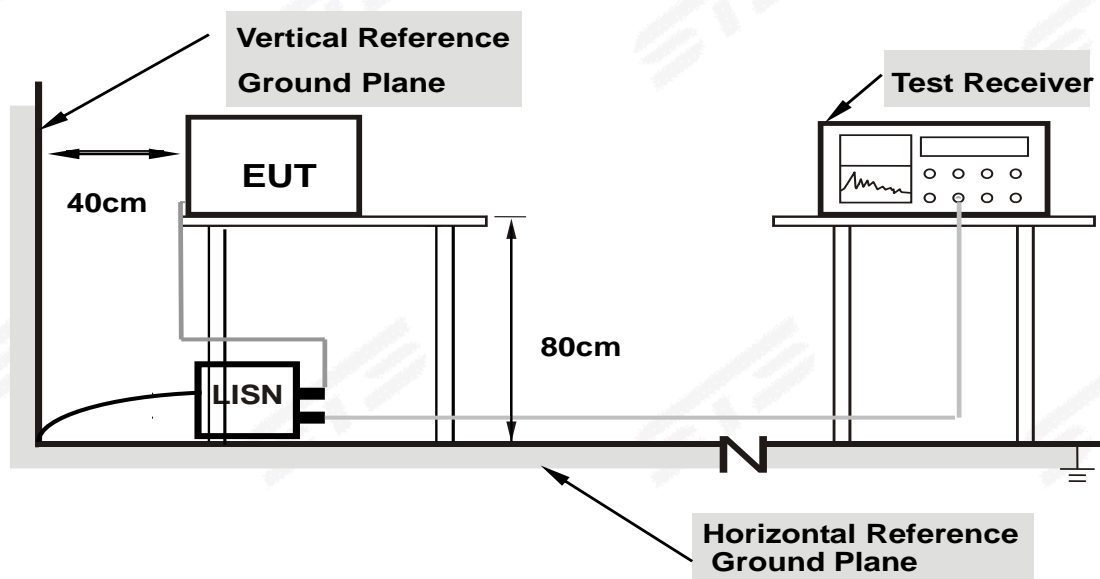
3.1.2 TEST PROCEDURE

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

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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.

3.1.5 EUT OPERATING CONDITIONS

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

3.1.6 TEST RESULTS

Note: EUT cannot be powered by DC Power and is not applicable.

3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (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			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.

LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

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

3.2.2 TEST PROCEDURE

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

Note:

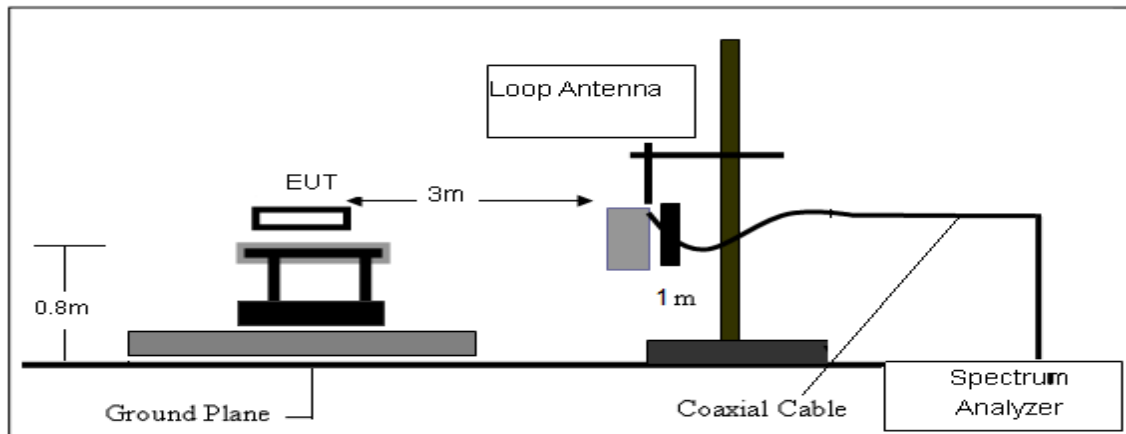
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

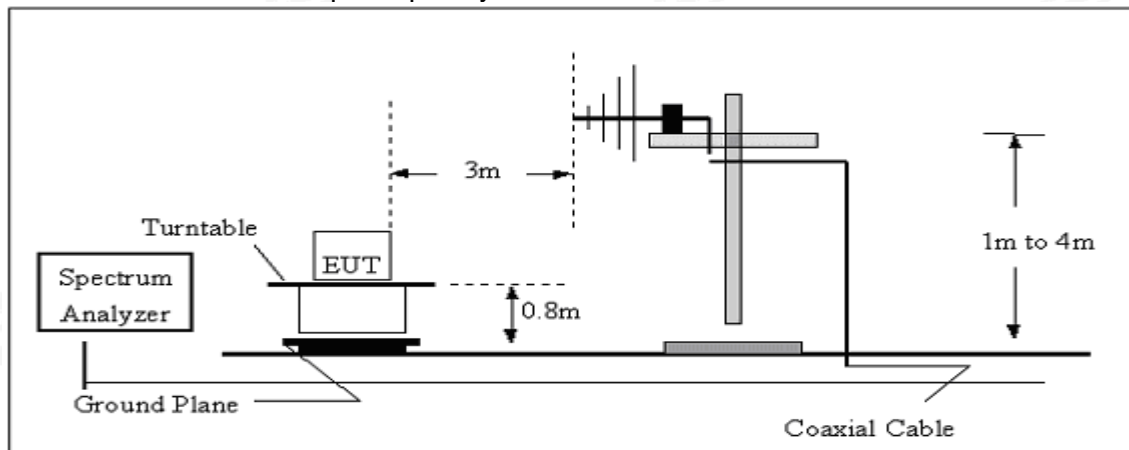
No deviation

3.2.3 TEST SETUP

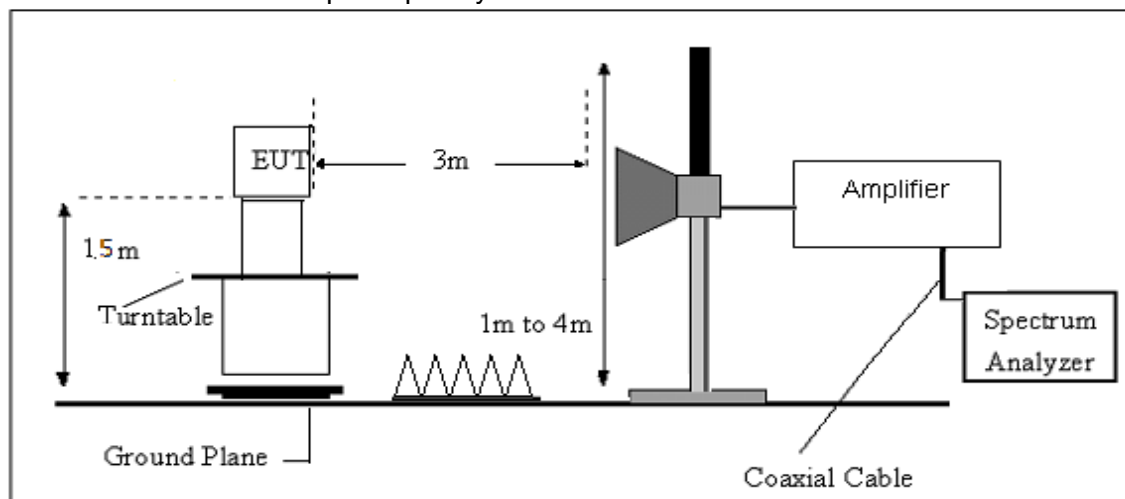
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

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

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

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

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

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

**3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)**

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 12V	Polarization :	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	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 = $40 \log (\text{specific distance/test distance})$ (dB);

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

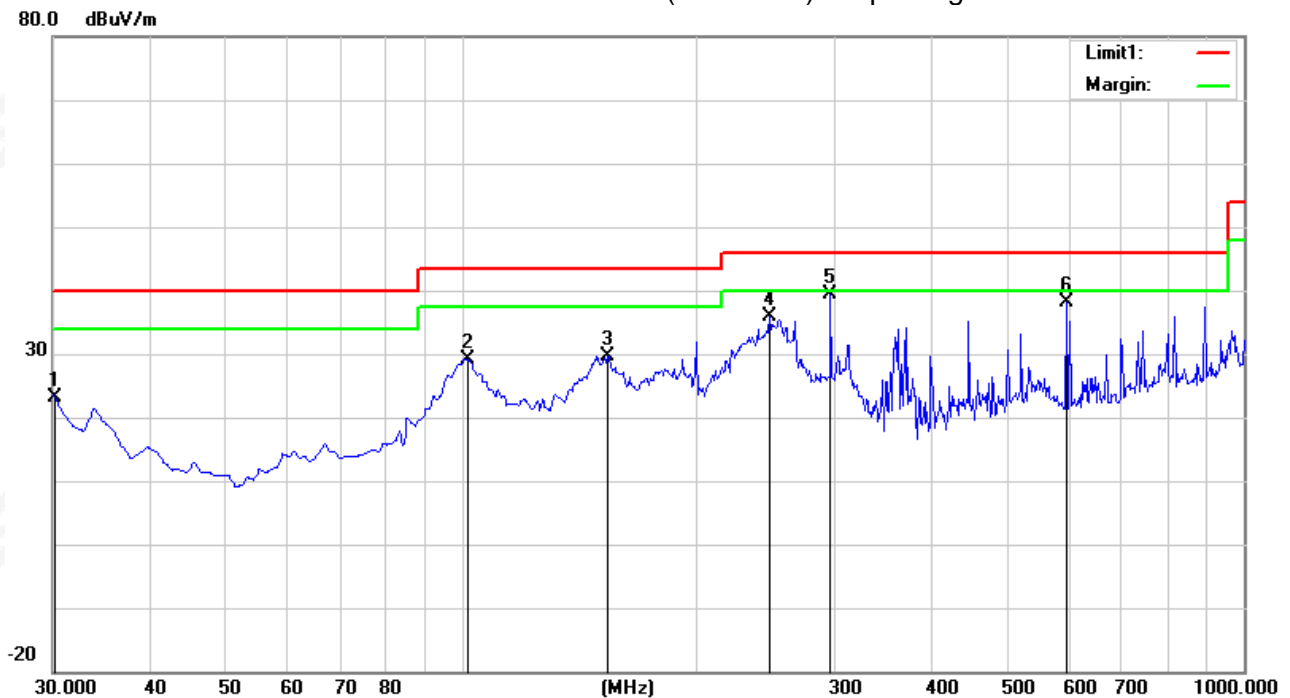
3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 12V	Polarization:	Horizontal
Test Mode	Mode 1/2/3/4 (mode1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.2111	36.19	-12.95	23.24	40.00	-16.76	peak
2	101.7800	48.96	-19.94	29.02	43.50	-14.48	peak
3	154.1600	48.35	-18.60	29.75	43.50	-13.75	peak
4	248.2500	52.41	-16.43	35.98	46.00	-10.02	peak
5	296.7500	54.19	-14.92	39.27	46.00	-6.73	peak
6	594.5400	43.99	-5.84	38.15	46.00	-7.85	peak

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



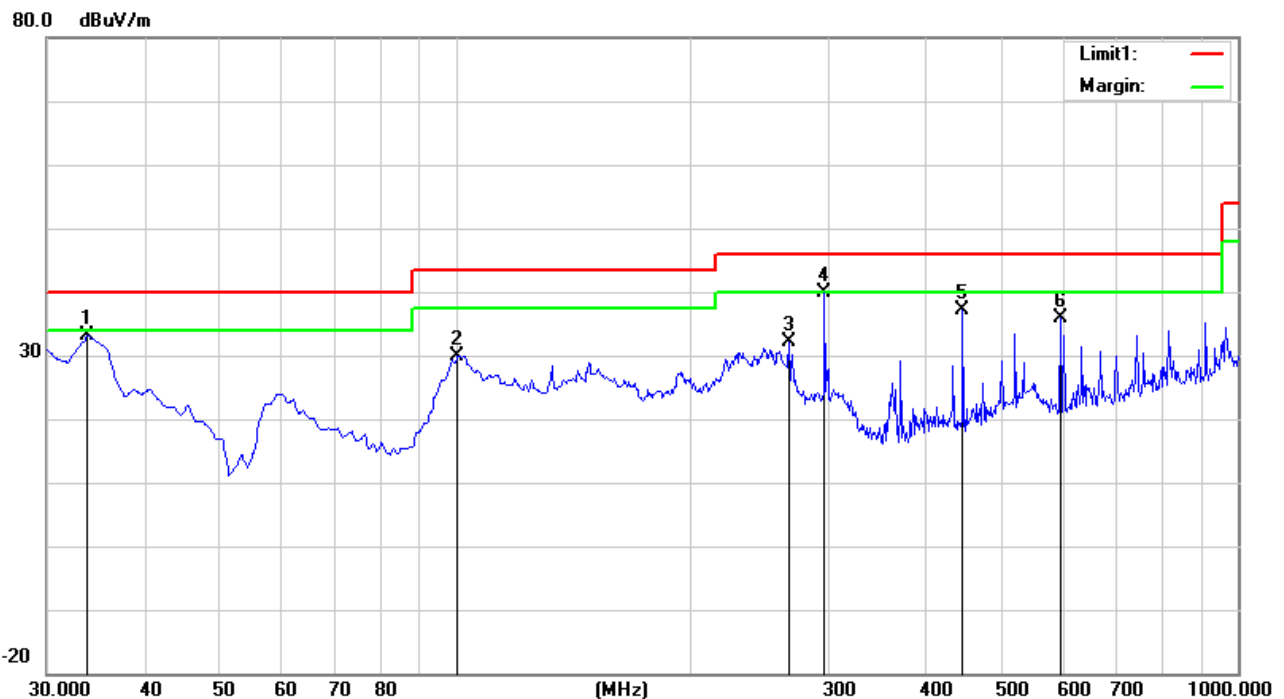


Temperature	23.4℃	Relative Humidity:	60%
Test Voltage	DC 12V	Polarization:	Vertical
Test Mode	Mode 1/2/3/4 (mode1 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	47.87	-14.80	33.07	40.00	-6.93	peak
2	100.8100	50.02	-20.04	29.98	43.50	-13.52	peak
3	266.6800	46.99	-14.94	32.05	46.00	-13.95	peak
4	296.7500	54.72	-14.92	39.80	46.00	-6.20	peak
5	445.1600	46.96	-9.87	37.09	46.00	-8.91	peak
6	594.5400	41.80	-5.84	35.96	46.00	-10.04	peak

Remark:

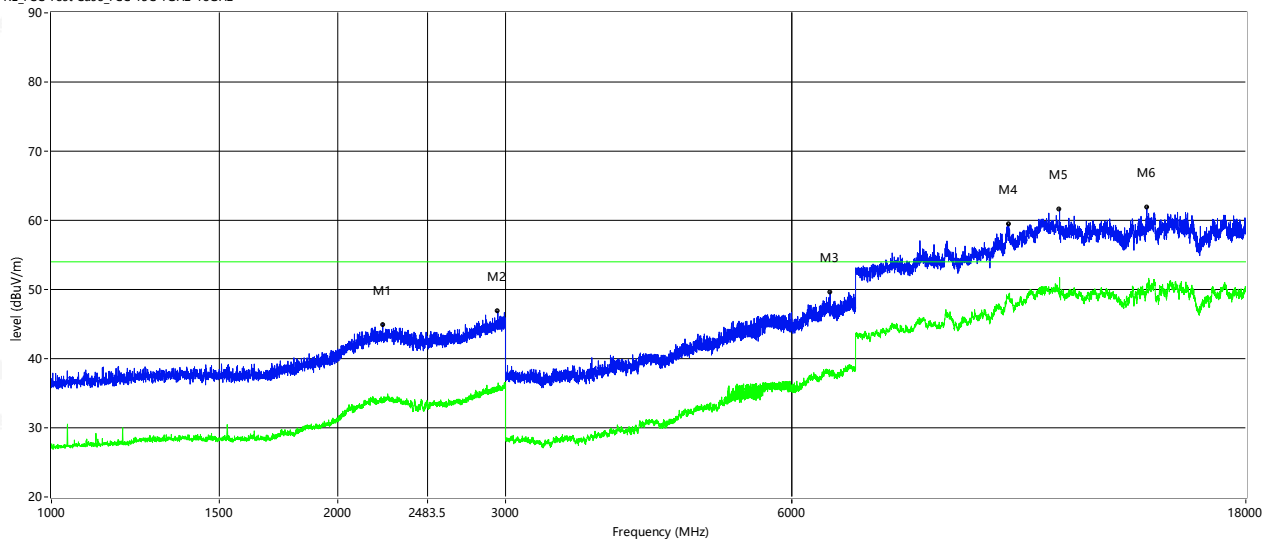
1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



3.2.8 TEST RESULTS (Above 1000 MHz)

5735MHz
Horizontal

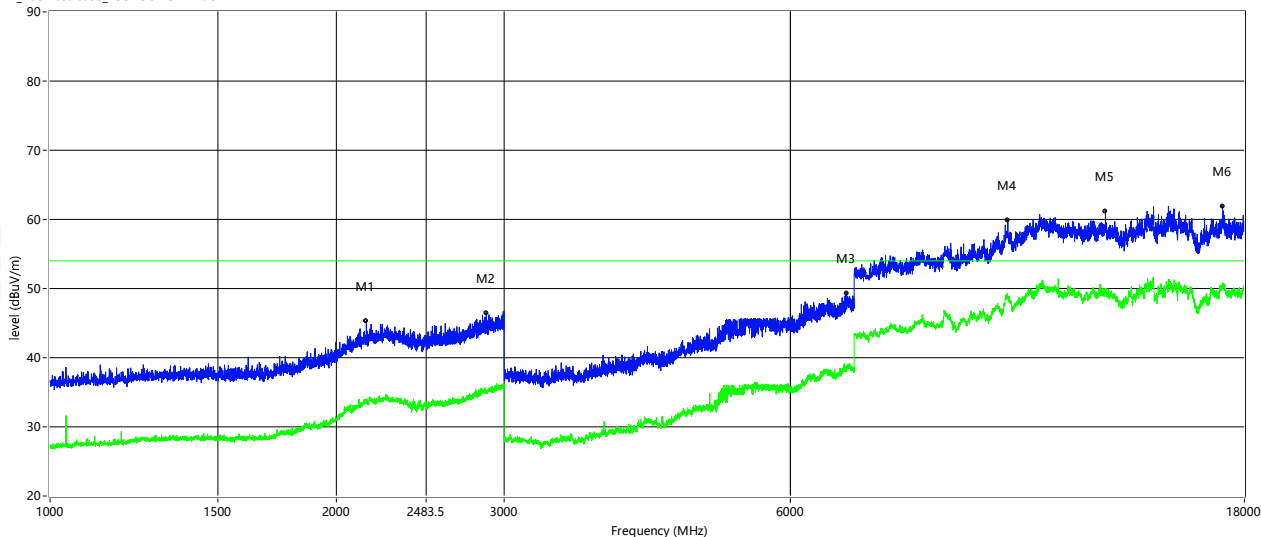
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV /m)	Average Level (dBuV /m)	Factor (dB)	PK Limit (dBuV /m)	AV Limit (dBuV /m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2229.000	44.93	34.12	4.41	74.0	54.0	-19.88	118.50	100	Horizontal	Pass
2945.000	46.86	35.42	5.87	74.0	54.0	-18.58	90.40	100	Horizontal	Pass
6582.000	49.57	37.71	-0.44	74.0	54.0	-16.29	336.10	100	Horizontal	Pass
10140.500	59.41	48.84	7.15	74.0	54.0	-5.16	303.60	100	Horizontal	Pass
11468.750	61.54	51.74	9.89	74.0	54.0	-2.26	107.70	100	Horizontal	Pass
14163.750	61.80	50.65	10.99	74.0	54.0	-3.35	46.30	100	Horizontal	Pass

Vertical

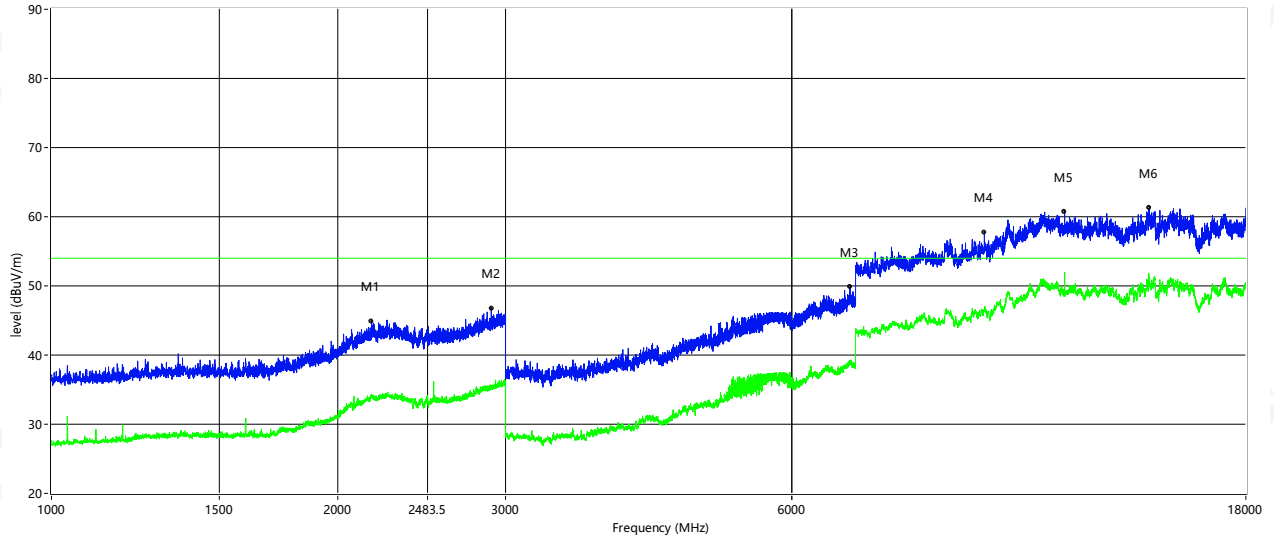
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV /m)	Average Level (dBuV /m)	Factor (dB)	PK Limit (dBuV /m)	AV Limit (dBuV /m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2149.500	45.23	33.42	4.63	74.0	54.0	-20.58	348.50	100	Vertical	Pass
2874.500	46.37	35.18	5.61	74.0	54.0	-18.82	360.00	100	Vertical	Pass
6873.000	49.35	38.69	0.33	74.0	54.0	-15.31	24.80	100	Vertical	Pass
10154.250	59.87	48.81	7.14	74.0	54.0	-5.19	205.50	100	Vertical	Pass
12857.500	61.20	49.61	9.89	74.0	54.0	-4.39	360.00	100	Vertical	Pass
17070.500	61.89	50.42	10.27	74.0	54.0	-3.58	358.70	100	Vertical	Pass

5770MHz
Horizontal

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV /m)	Average Level (dBuV /m)	Factor (dB)	PK Limit (dBuV /m)	AV Limit (dBuV /m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2170.500	44.85	33.85	4.42	74.0	54.0	-20.15	154.80	100	Horizontal	Pass
2899.000	46.77	35.15	5.61	74.0	54.0	-18.85	225.40	100	Horizontal	Pass
6905.000	49.87	38.99	0.46	74.0	54.0	-15.01	184.50	100	Horizontal	Pass
9560.250	57.71	46.56	5.50	74.0	54.0	-7.44	152.30	100	Horizontal	Pass
11609.000	60.74	51.94	9.97	74.0	54.0	-2.06	165.20	100	Horizontal	Pass
14249.000	61.33	51.05	11.22	74.0	54.0	-2.95	176.60	100	Horizontal	Pass

Vertical

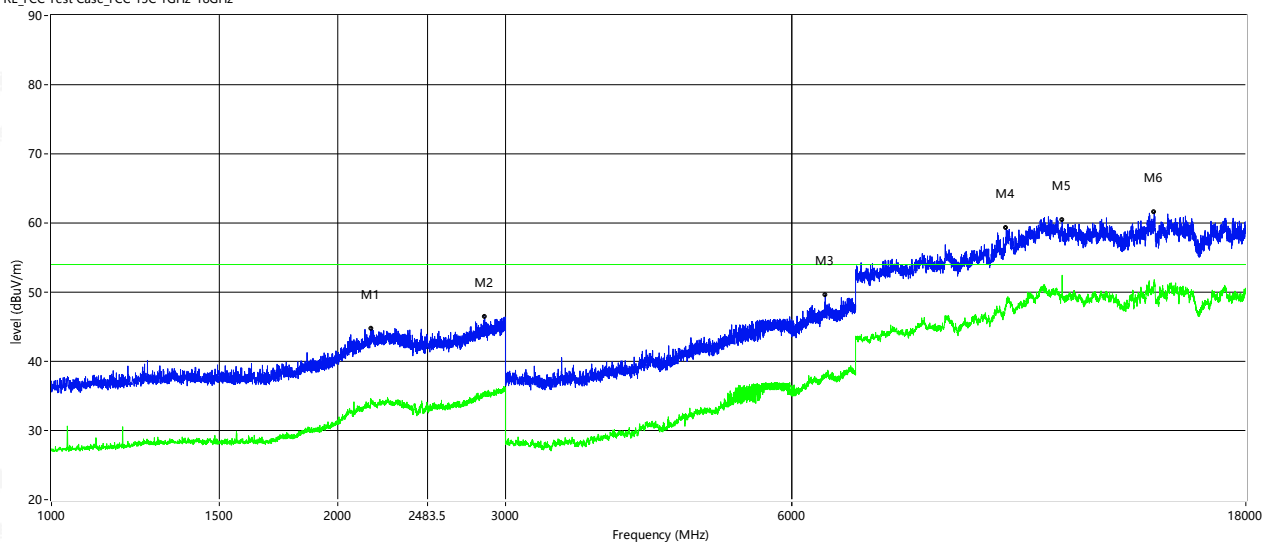
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV /m)	Average Level (dBuV /m)	Factor (dB)	PK Limit (dBuV /m)	AV Limit (dBuV /m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2238.500	45.04	33.91	4.52	74.0	54.0	-20.09	93.70	100	Vertical	Pass
2973.500	46.61	35.51	6.00	74.0	54.0	-18.49	165.40	100	Vertical	Pass
6958.000	49.55	38.56	0.50	74.0	54.0	-15.44	265.40	100	Vertical	Pass
8751.750	57.27	46.11	5.00	74.0	54.0	-7.89	6.70	100	Vertical	Pass
11224.001	61.05	50.07	9.58	74.0	54.0	-3.93	162.00	100	Vertical	Pass
15030.000	61.55	51.13	10.37	74.0	54.0	-2.87	247.80	100	Vertical	Pass

5805MHz
Horizontal

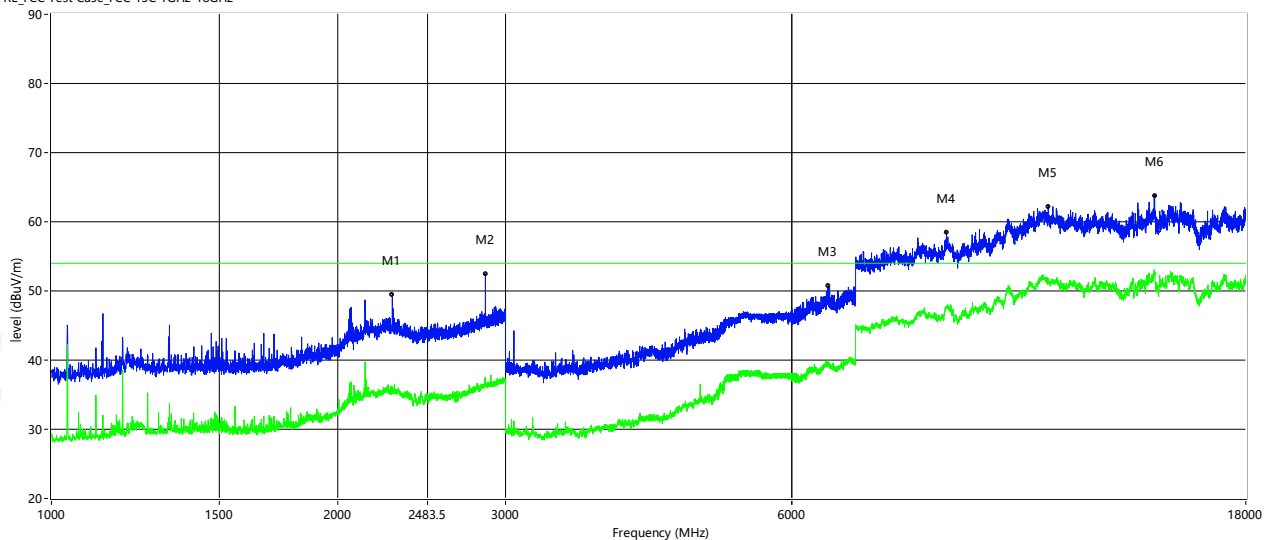
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2166.500	44.68	34.00	4.46	74.0	54.0	-20.00	299.30	100	Horizontal	Pass
2853.000	46.44	35.26	5.61	74.0	54.0	-18.74	107.50	100	Horizontal	Pass
6505.000	49.64	37.92	-0.40	74.0	54.0	-16.08	300.30	100	Horizontal	Pass
10080.000	59.30	48.07	6.77	74.0	54.0	-5.93	222.10	100	Horizontal	Pass
11540.250	60.43	52.46	9.99	74.0	54.0	-1.54	247.80	100	Horizontal	Pass
14419.500	61.58	51.81	11.19	74.0	54.0	-2.19	209.50	100	Horizontal	Pass

Vertical

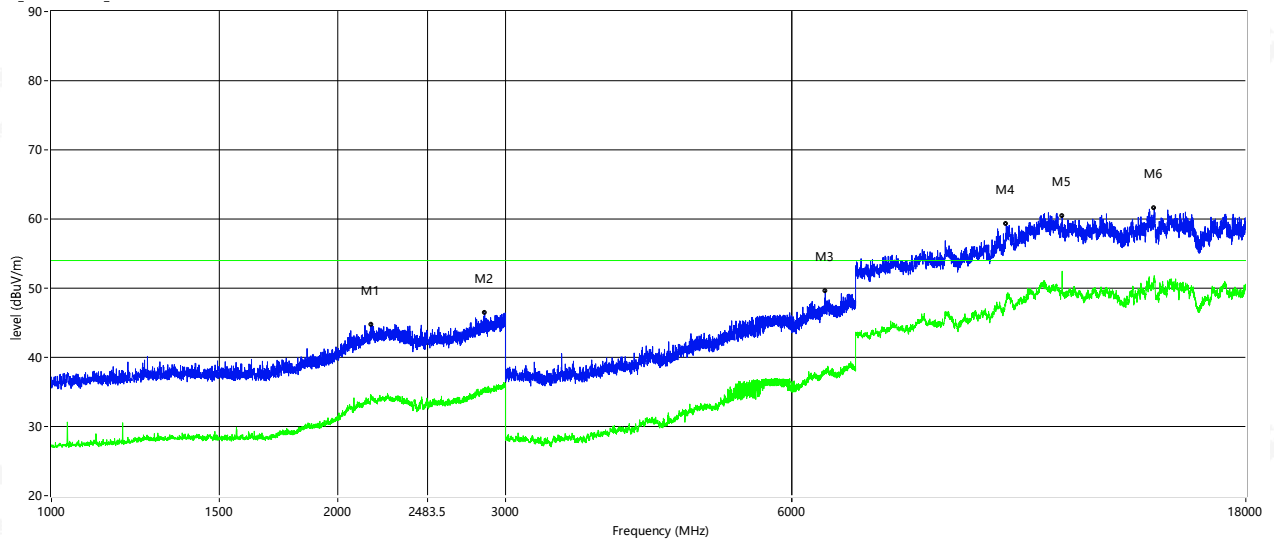
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2281.500	49.36	35.22	4.60	74.0	54.0	-18.78	267.00	100	Vertical	Pass
2858.000	52.46	37.42	5.61	74.0	54.0	-16.58	251.50	100	Vertical	Pass
6548.000	50.69	39.68	-0.42	74.0	54.0	-14.32	5.90	100	Vertical	Pass
8721.500	58.41	47.61	5.09	74.0	54.0	-6.39	1.50	100	Vertical	Pass
11158.000	62.21	50.46	9.63	74.0	54.0	-3.54	300.10	100	Vertical	Pass
14433.250	63.78	50.43	11.03	74.0	54.0	-3.57	24.80	100	Vertical	Pass

5839MHz
Horizontal

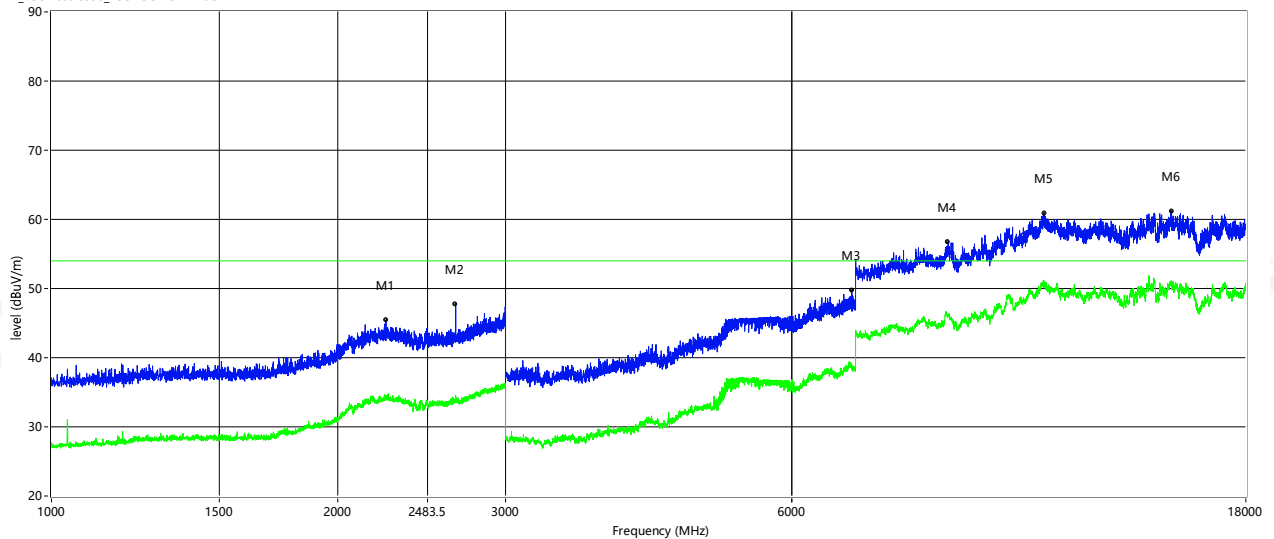
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2166.500	44.68	34.00	4.46	74.0	54.0	-20.00	299.30	100	Horizontal	Pass
2853.000	46.44	35.26	5.61	74.0	54.0	-18.74	107.50	100	Horizontal	Pass
6505.000	49.64	37.92	-0.40	74.0	54.0	-16.08	300.30	100	Horizontal	Pass
10080.000	59.30	48.07	6.77	74.0	54.0	-5.93	222.10	100	Horizontal	Pass
11540.250	60.43	52.46	9.99	74.0	54.0	-1.54	247.80	100	Horizontal	Pass
14419.500	61.58	51.81	11.19	74.0	54.0	-2.19	209.50	100	Horizontal	Pass

Vertical

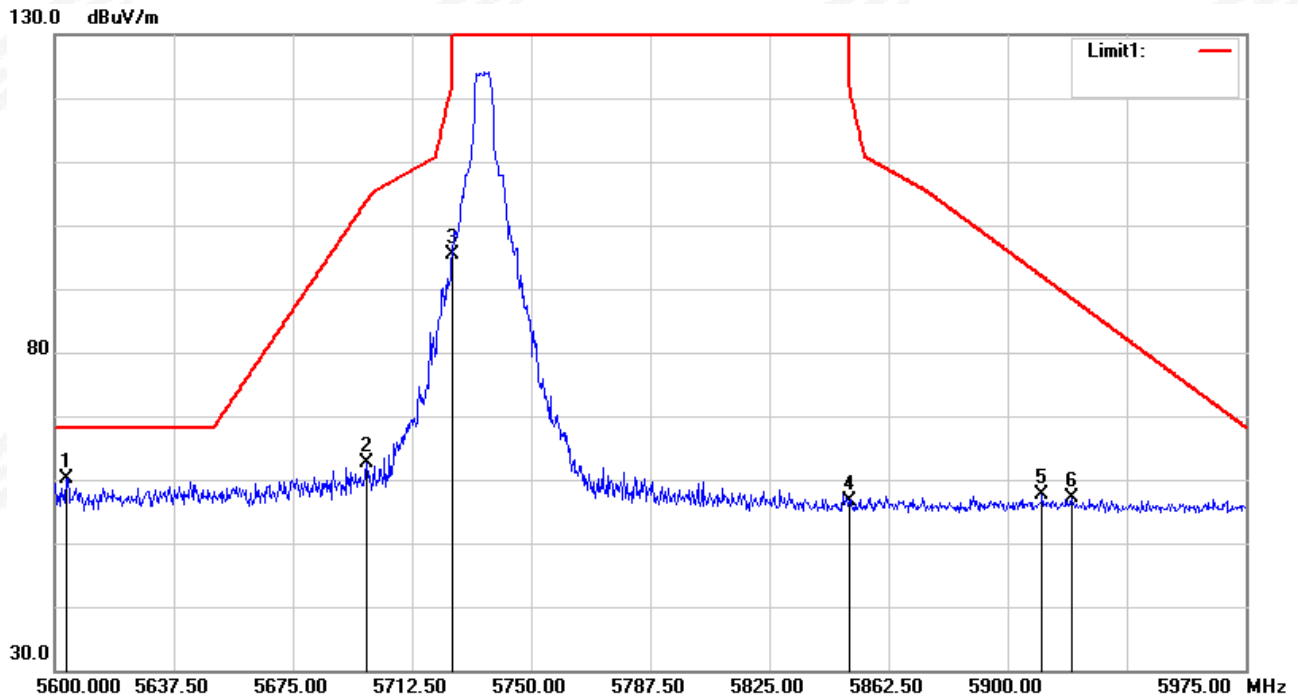
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	Table (o)	Height (cm)	ANT	Verdict
2246.500	45.38	34.18	4.60	74.0	54.0	-19.82	178.90	100	Vertical	Pass
2659.500	47.66	34.58	4.51	74.0	54.0	-19.42	99.00	100	Vertical	Pass
6937.000	49.78	38.97	0.49	74.0	54.0	-15.03	360.60	100	Vertical	Pass
8757.250	56.78	45.98	4.98	74.0	54.0	-8.02	319.40	100	Vertical	Pass
11050.750	60.79	50.22	9.95	74.0	54.0	-3.78	166.70	100	Vertical	Pass
15035.500	61.17	50.75	10.37	74.0	54.0	-3.25	29.40	100	Vertical	Pass

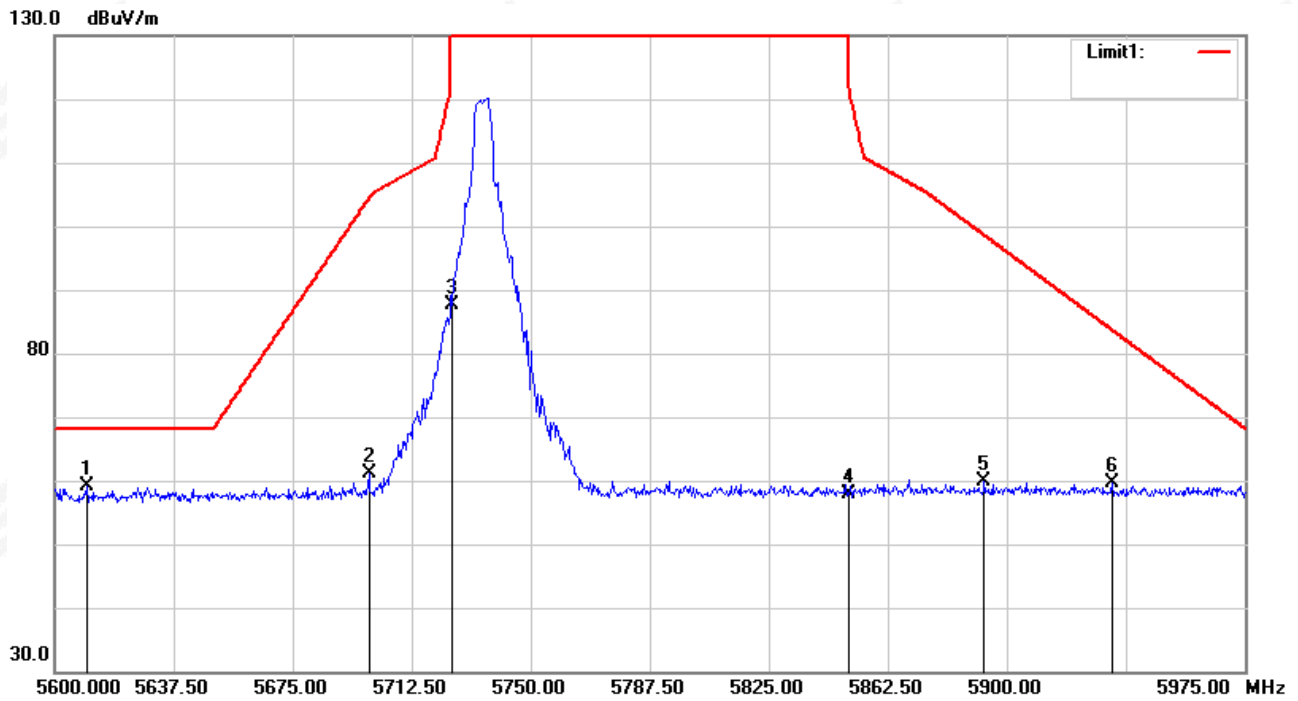
3.2.9 RESTRICTED FREQUENCY BANDS AND BAND EDGE

5735MHz
Horizontal

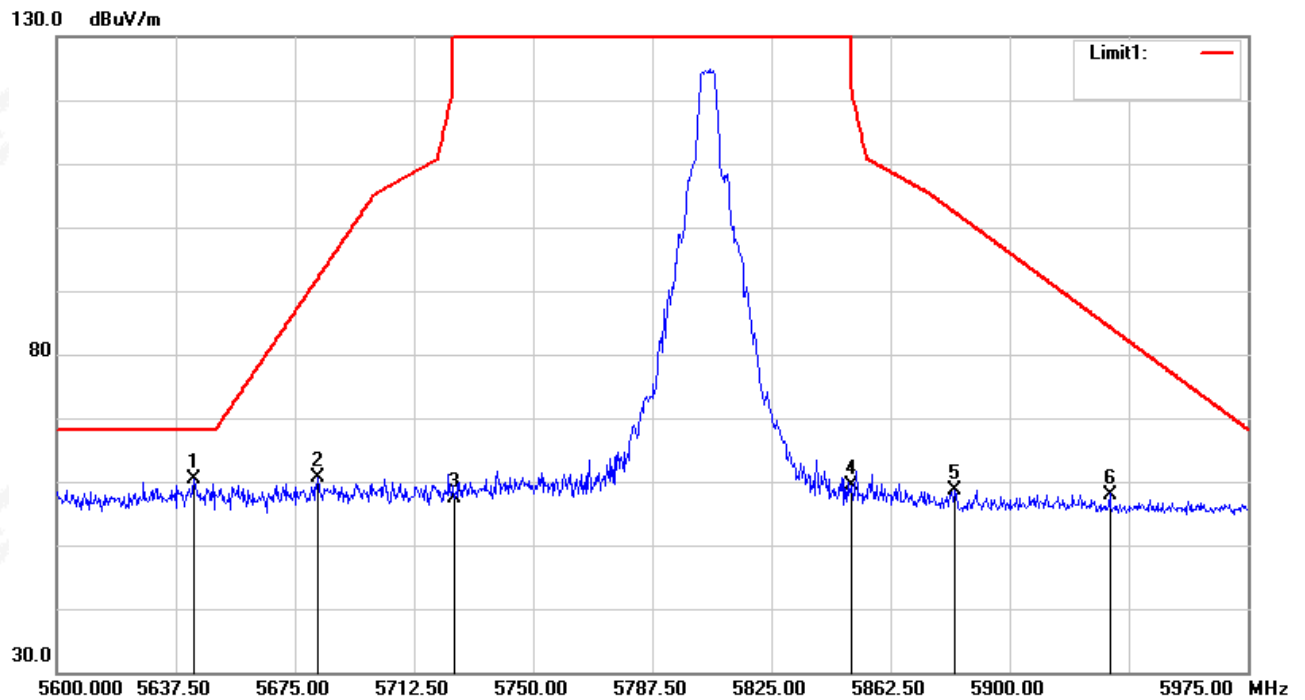


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5603.750	54.92	5.31	60.23	68.20	-7.97	peak
2	5698.250	57.33	5.34	62.67	103.91	-41.24	peak
3	5725.000	89.87	5.43	95.30	122.20	-26.90	peak
4	5850.000	50.73	5.90	56.63	122.20	-65.57	peak
5	5910.875	51.61	6.10	57.71	91.93	-34.22	peak
6	5920.250	51.15	6.08	57.23	88.46	-31.23	peak

Vertical

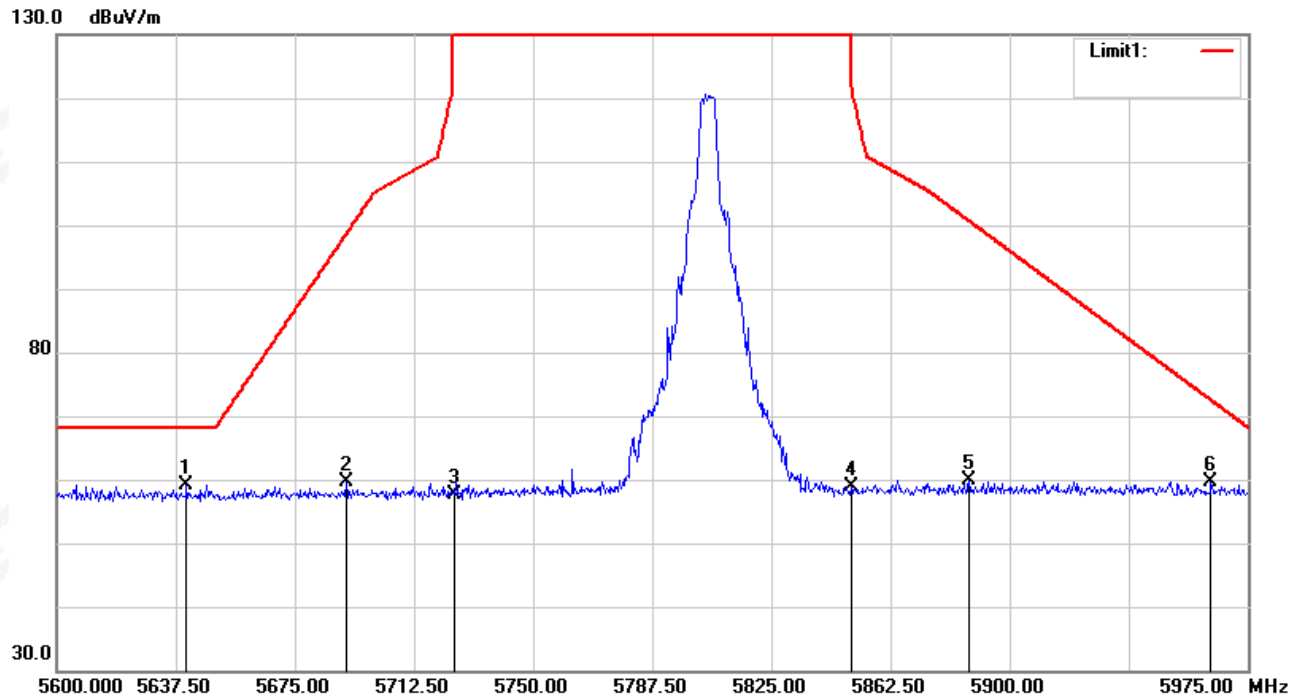


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.125	63.79	-4.69	59.10	68.20	-9.10	peak
2	5699.000	65.86	-4.66	61.20	104.46	-43.26	peak
3	5725.000	92.23	-4.57	87.66	122.20	-34.54	peak
4	5850.000	62.08	-4.10	57.98	122.20	-64.22	peak
5	5892.875	63.83	-3.91	59.92	98.59	-38.67	peak
6	5933.000	63.63	-3.94	59.69	83.74	-24.05	peak

5770MHz
Horizontal

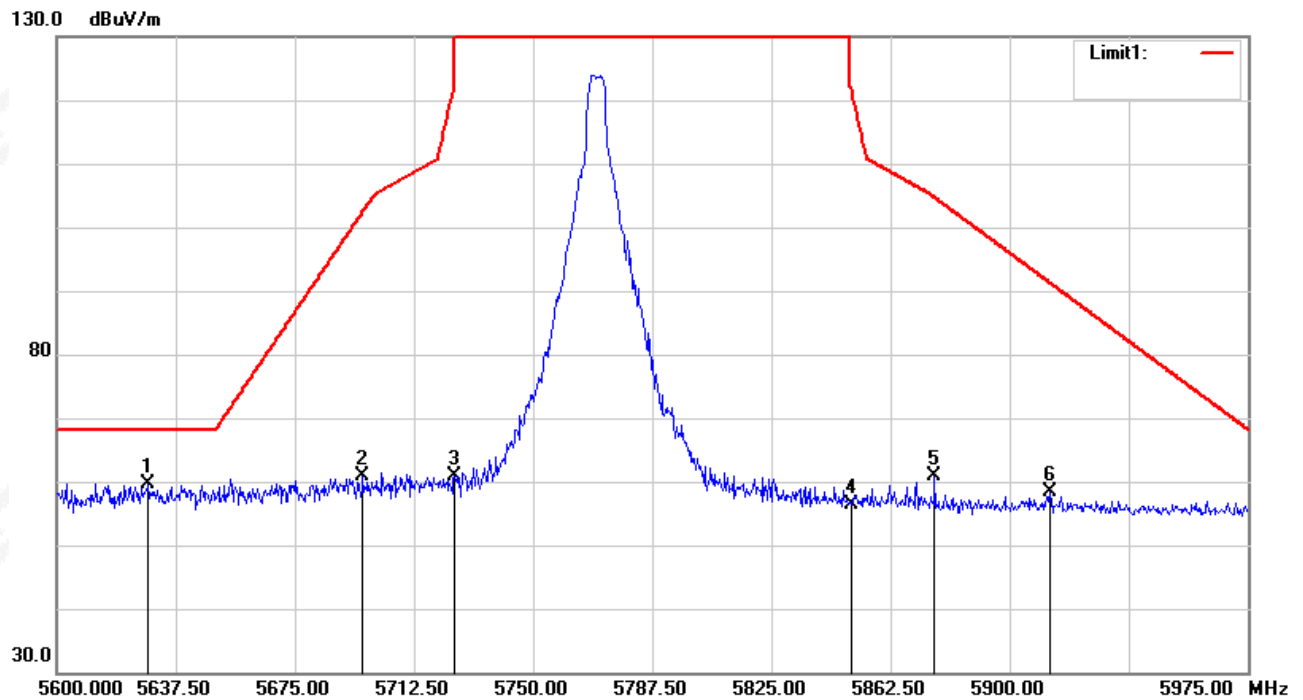
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5643.125	54.95	5.32	60.27	68.20	-7.93	peak
2	5682.125	55.36	5.33	60.69	91.97	-31.28	peak
3	5725.000	51.97	5.43	57.40	122.20	-64.80	peak
4	5850.000	53.40	5.90	59.30	122.20	-62.90	peak
5	5882.750	52.68	6.04	58.72	102.33	-43.61	peak
6	5931.500	51.93	6.07	58.00	84.30	-26.30	peak

Vertical



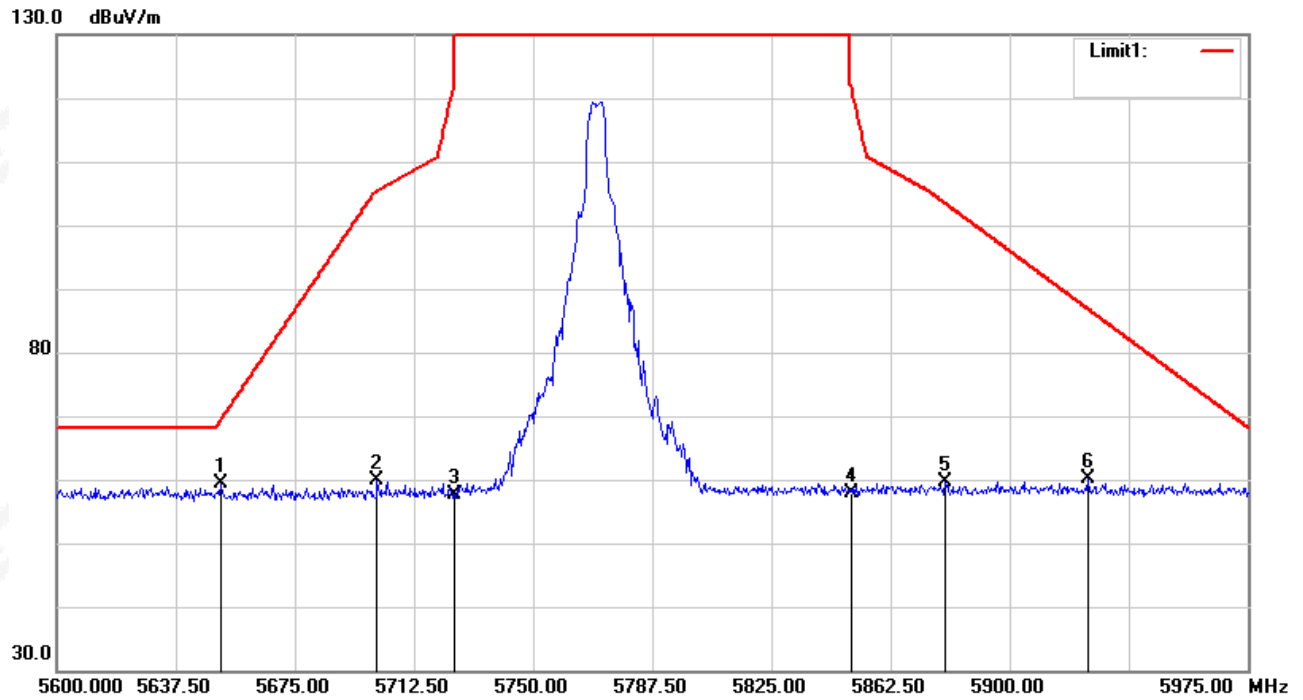
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.875	63.86	-4.68	59.18	68.20	-9.02	peak
2	5691.125	64.20	-4.66	59.54	98.63	-39.09	peak
3	5725.000	62.24	-4.57	57.67	122.20	-64.53	peak
4	5850.000	63.08	-4.10	58.98	122.20	-63.22	peak
5	5887.250	63.70	-3.94	59.76	100.67	-40.91	peak
6	5963.375	63.59	-3.99	59.60	72.50	-12.90	peak

5805MHz
Horizontal



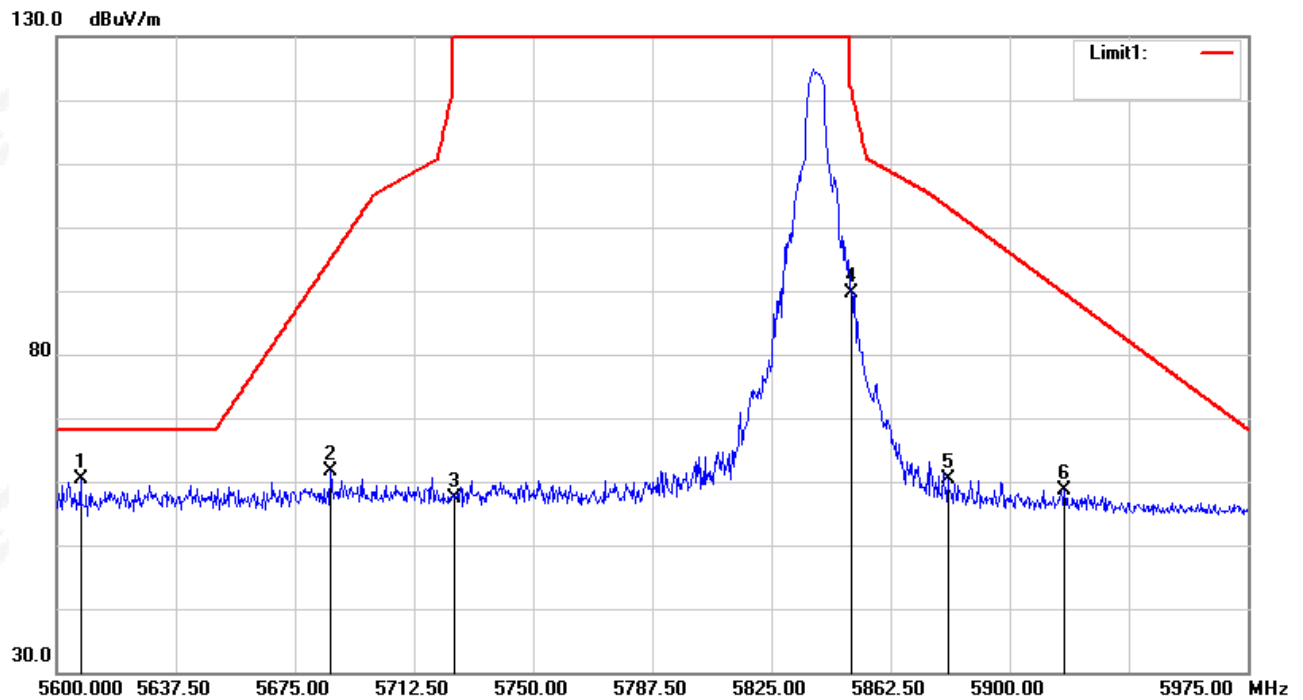
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.875	54.39	5.32	59.71	68.20	-8.49	peak
2	5696.375	55.54	5.33	60.87	102.52	-41.65	peak
3	5725.000	55.45	5.43	60.88	122.20	-61.32	peak
4	5850.000	50.49	5.90	56.39	122.20	-65.81	peak
5	5876.375	54.85	6.01	60.86	104.69	-43.83	peak
6	5912.750	52.22	6.10	58.32	91.23	-32.91	peak

Vertical



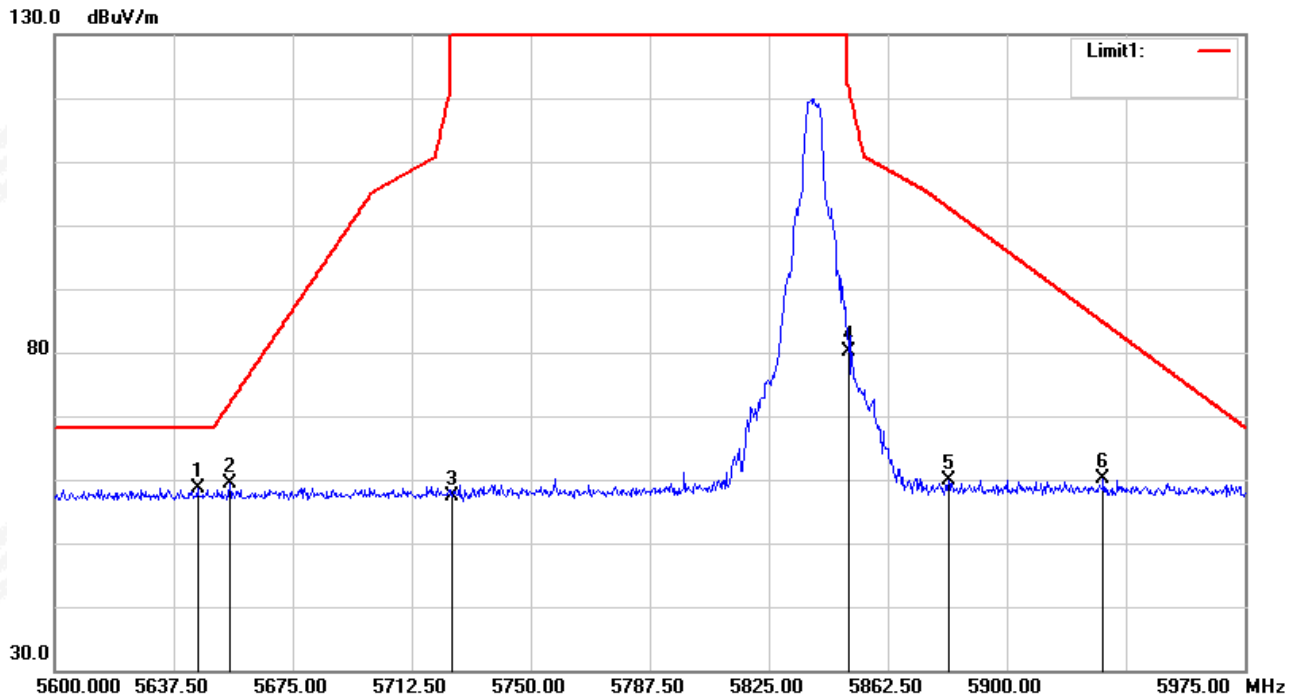
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5651.750	64.15	-4.68	59.47	69.50	-10.03	peak
2	5700.875	64.66	-4.66	60.00	105.45	-45.45	peak
3	5725.000	62.12	-4.57	57.55	122.20	-64.65	peak
4	5850.000	62.10	-4.10	58.00	122.20	-64.20	peak
5	5879.750	63.57	-3.97	59.60	103.44	-43.84	peak
6	5924.750	63.98	-3.92	60.06	86.79	-26.73	peak

5839MHz
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5607.500	54.97	5.30	60.27	68.20	-7.93	peak
2	5686.250	56.21	5.34	61.55	95.03	-33.48	peak
3	5725.000	51.90	5.43	57.33	122.20	-64.87	peak
4	5850.000	83.64	5.90	89.54	122.20	-32.66	peak
5	5880.500	54.24	6.04	60.28	103.17	-42.89	peak
6	5917.250	52.44	6.09	58.53	89.57	-31.04	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5645.000	63.43	-4.68	58.75	68.20	-9.45	peak
2	5655.125	64.07	-4.68	59.39	71.99	-12.60	peak
3	5725.000	61.87	-4.57	57.30	122.20	-64.90	peak
4	5850.000	84.23	-4.10	80.13	122.20	-42.07	peak
5	5881.625	63.90	-3.96	59.94	102.75	-42.81	peak
6	5930.375	63.95	-3.93	60.02	84.71	-24.69	peak

4. POWER SPECTRAL DENSITY TEST

4.1 LIMIT

1. For mobile and portable client devices in the 5.15-5.25 GHz band, , the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB D02 General UNII Test Procedures New Rules v01r03.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz.

Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used.

The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHZ}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Note: The test data please reference to attachment “STS2411073W02_Appendix 5G WIFI”.

5. BANDWIDTH MEASUREMENT

5.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth.

5.1.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW \geq RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

Note: The test data please reference to attachment "STS2411073W02_Appendix 5G WIFI".

5.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth.

5.2.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01. The following procedure shall be used for measuring (99 %) power bandwidth:
 1. Set center frequency to the nominal EUT channel center frequency.
 2. Set span = 1.5 times to 5.0 times the OBW.
 3. Set RBW = 1 % to 5 % of the OBW
 4. Set VBW $\geq 3 \cdot$ RBW
 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
 6. Use the 99 % power bandwidth function of the instrument (if available).
 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2 DEVIATION FROM STANDARD

No deviation.

5.2.3 TEST SETUP



5.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5 TEST RESULTS

Note: The test data please reference to attachment "STS2411073W02_Appendix 5G WIFI".

5.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

5.3.1 TEST PROCEDURE

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.2 DEVIATION FROM STANDARD

No deviation.

5.3.3 TEST SETUP



5.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.3.5 TEST RESULTS

Note: The test data please reference to attachment "STS2411073W02_Appendix 5G WIFI".

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407) , Subpart E				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.407(a) (1) (iv)	Peak Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or $11 \text{ dBm} + 10 \log (26 \text{ dB emission bandwidth})$	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5895	

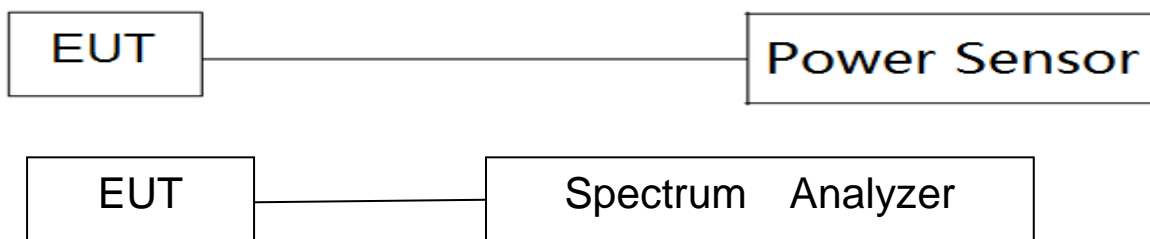
6.2 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Note: The test data please reference to attachment "STS2411073W02_Appendix 5G WIFI".

7. AUTOMATICALLY DISCONTINUE TRANSMISSION

7.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

7.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

8. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

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



APPENDIX - 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*****