

FCC COMPLIANCE TEST REPORT

Technical Statement of Conformity
in accordance with 47 CFR Part 15 Subpart C

The product

Equipment Under Test	: Bluetooth Speaker Microphone
Model Number	: BTH-600
Product Series	: N/A
Report Number	: HA190005-RA
Issue Date	: 11-JAN-2019
Test Result	: Compliance

is produced by
Mobility Sound Technology LTD.
5F, No.100, Jian 1st Road, ZhongHe Dist., New Taipei City #23585, Taiwan



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FCC Designation No.: TW1071, TW1163

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Test Result Certification


Applicant	: Mobility Sound Technology LTD.
Address of Applicant	: 5F, No.100, Jian 1 st Road, ZhongHe Dist., New Taipei City #23585, Taiwan
Manufacturer	: Mobility Sound Technology LTD.
Address of Manufacturer	: 5F, No.100, Jian 1 st Road, ZhongHe Dist., New Taipei City #23585, Taiwan
Trade Name	: MobilitySound
Equipment Under Test	: Bluetooth Speaker Microphone
Model Number	: BTH-600
Product Series	: N/A
FCC ID	: XTS-BTH-600
Filing Type	: Certification
Sample Received Date	: 12-Oct-2018
Test Standard	:

FCC Part 15 Subpart C §15.249

Deviations from standard test methods & any other specifications : NONE

Remark:

1. This report details the results of the test carried out on one sample.
2. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in both ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.203, 15.207, 15.209, 15.247.
3. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co., Ltd.
4. Test Location: HongAn Technology Co., Ltd., No.15-1 Cweishuh Keng, Cweipin Village, Linkou Dist., New Taipei City, Taiwan, R.O.C. FCC Designation No.: TW1071, TW1163.

Documented by:  2019-01-11
Kay Wang/ ADM. Dept Staff

Tested by:  2018-12-25
Eason Hsieh / ENG. Dept. Staff

Approved by:  **Date:** 2019-01-12
Peter Chin / Section Manager

Summary of Test Result

	Test Item	Applicable Standard	Test Result
1	Antenna Requirement	FCC part 15 subpart C §203	Compliance
2	Conducted Emission	FCC part 15 subpart C §207	Compliance
3	Restricted Band of Operation	FCC part 15 subpart C §205	Compliance
4	Radiated Emission	FCC part 15 subpart C §209	Compliance
5	Field Strength	FCC part 15 subpart C §249(a)	Compliance
6	Out of Band Emission	FCC part 15 subpart C §249(d)	Compliance
7	20dB Bandwidth	FCC part 15 subpart C §215(c)	Compliance

1 General Description

1.1 Description of EUT

Equipment Under Test	:	Bluetooth Speaker Microphone							
Model Number of EUT	:	BTH-600							
Product Series	:	N/A							
Power Supply	:	Input: Charging from USB DC 5 V Output: Li-ion Battery DC 3.7 V; 1000mAh; 3.7W							
Frequency Range	:	2402~2480 MHz							
Number of Channels	:	79 Channels							
Carrier Frequency of Each Channel	:	00	2402	20	2422	40	2442	60	2462
		01	2403	21	2423	41	2443	61	2463
		02	2404	22	2424	42	2444	62	2464
		03	2405	23	2425	43	2445	63	2465
		04	2406	24	2426	44	2446	64	2466
		05	2407	25	2427	45	2447	65	2467
		06	2408	26	2428	46	2448	66	2468
		07	2409	27	2429	47	2449	67	2469
		08	2410	28	2430	48	2450	68	2470
		09	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	-	-
Antenna Specification	:	Chip Antenna/ Gain: 1.3 dBi							
Modulation Technique	:	Bluetooth 4.1 FHSS Bluetooth : GFSK Bluetooth EDR : $\pi/4$ -DQPSK, 8-DPSK							
Transmit Data Rate	:	Bluetooth : 1Mbps, 2Mbps, 3Mbps							



Specification	:	Dimensions : 8.8 cm (L) X 6.8 cm (W) X 3.2 cm (H) Weight : 135 g Intended Function : The EUT is a Bluetooth Speaker Microphone. Product Variance : N/A.
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1.2 Test Instruments

Instrument Name	Manufacturer Mode	Model Number	Serial Number	Last Cal. Date	Next Cal. Date
RF Amplifier	Schaffner	CPA9231A	0405	24-Aug-2018	23-Aug-2019
EMI Receiver	R&S	ESCI	100931	09-Aug-2018	08-Aug-2019
Spectrum Analyzer	R&S	FSV	101629	16-Jan-2018	15-Jan-2019
Preamplifier	HD	HD17187	004	21-May-2018	20-May-2019
Bilog Antenna	TESEQ	CBL6111D	38521	03-Oct-2018	02-Oct-2019
Double-Ridged Waveguide Horn	EMCO	3115	9912-5992	23-May-2018	22-May-2019
Horn Antenna (18-40GHz)	Com -Power	AH-840	101042	22-May-2018	21-May-2019
Microwave Preamplifier	Com -Power	PAM-840	461269	21-May-2018	20-May-2019
LISN	Rolf Heine Hochfrequenztechnik	NNB-4/32T	00001	01-Mar-2018	28-Feb-2019
Active Loop Antenna	EMCO	6502	9202-2717	27-Aug-2018	26-Aug-2019
Coaxial Cable	n/a	8D-FB	HA2-10MSI TE-01	24-Aug-2018	23-Aug-2019
Microflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3368/2	21-May-2018	20-May-2019
Microflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3367/2	22-May-2018	21-May-2019
Coaxial Cable	n/a	RG 223/U	HA2-CE-01	24-Aug-2018	23-Aug-2019

※ The test equipments used are calibrated and can be traced to National ITRI and International Standards.

1.3 Auxiliary Equipments

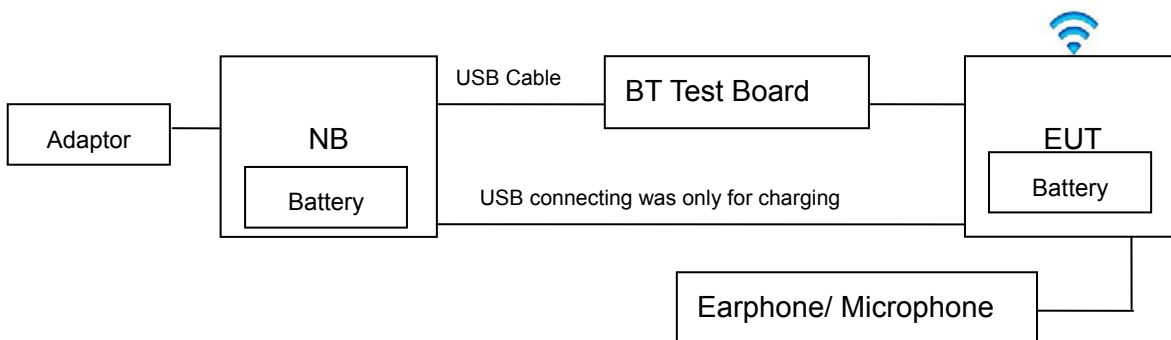
1.3.1. Provided by HongAn Technology Co., Ltd. for Test.

No.	Equipment	Model No.	Serial No.	EMC Approved	Brand	Power Cord
01	NoteBook	N61J	N61JV-021A520M	CE,FCC, C-TICK N13219, BSMI R31018	ASUS	N/A

1.3.2. Provided by the Manufacturer

No.	Equipment	Model No.	Serial No.	EMC Approved	Brand	Specification
01	BT Test Board	N/A	N/A	N/A	N/A	N/A
02	USB Cable	N/A	N/A	N/A	N/A	Non-Shielded; Detachable, 1.8m w/o core
03	USB Cable	N/A	N/A	N/A	N/A	Non-Shielded; Detachable, 1.8m w/o core

1.4 EUT SETUP



Note: Main Test Sample: MTX-BTH-600

1.5 Identifying the Final Test Mode

1. Mode 1: TX BT mode (1Mbps) CH 00.
2. Mode 2: TX BT mode (1Mbps) CH 39.
3. Mode 3: TX BT mode (1Mbps) CH 78.
4. Mode 4: TX BT mode (2Mbps) CH 00.
5. Mode 5: TX BT mode (2Mbps) CH 39.
6. Mode 6: TX BT mode (2Mbps) CH 78.
7. Mode 7: TX BT mode (3Mbps) CH 00.
8. Mode 8: TX BT mode (3Mbps) CH 39.
9. Mode 9: TX BT mode (3Mbps) CH 78.

Note:

1. After pre-test, we identified that the TX mode was most likely to cause maximum disturbance and

most likely to be susceptible to disturbance. Therefore, the Final Assessment was performed for the worst case.

2. The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements. During the tests, there was no Test Software has been used.
3. Channel Low (2402 MHz), Mid (2442 MHz) and High (2480 MHz) were chosen for full testing.
4. According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.
5. Test Software: BlueTest3 V2.5.8; RF parameter setting: Channel : 00 , 39 , 78/ Data Rate : 1Mbps , 2Mbps , 3Mbps/ Packet : DH1 , DH3 , DH5 , 2DH1 , 2DH3 , 2DH5 , 3DH1 , 3DH3 , 3DH5/ TX POWER : 50.

1.6 Final Test Mode

Conducted Emission: Mode 3.

Radiated Emission (30~1000 MHz): Mode 3.

Radiated Emission (1~26.5GHz): All Mode.

1.7 Condition of Power Supply

DC 5V through USB port

1.8 EUT Configuration

1. Setup the EUT as shown in Sec.1.4 Block Diagram.
2. Turn on the power of all equipments.
3. Activate the selected Final Test Mode.

1.9 Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.10 (2013) and FCC CFR 47 15.203, 15.207, 15.209 and 15.249.

1.10 General Test Procedures

Conducted Emissions

The EUT is set according to the requirements in Section 6.2 of ANSI C63.10 (2013).

Radiated Emissions

The EUT is set according to the requirements in Section 6.3 of ANSI C63.10 (2013).

1.11 Modification

N/A

1.12 FCC Part 15.205 restricted bands of operations

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 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
8.37635-8.38675	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	(²)
13.36-13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



1.13 Qualification of Test Facility

Name of Test Facility : HongAn Technology
Address of Test Facility : No. 15-1, Cweishuh Keng, Cweipin Village, Linkou, New Taipei City,
Taiwan, R.O.C
FCC Designation No. : TW1071, TW1163
TAF Accreditation No. : 1163

2 Power line Conducted Emission Measurement

2.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

2.2 Test Arrangement and Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

2.3 Limit (§ 15.207)

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency (MHz)	Limits (dBuV)	
	Q.P. (Quasi-Peak)	A.V. (Average)
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

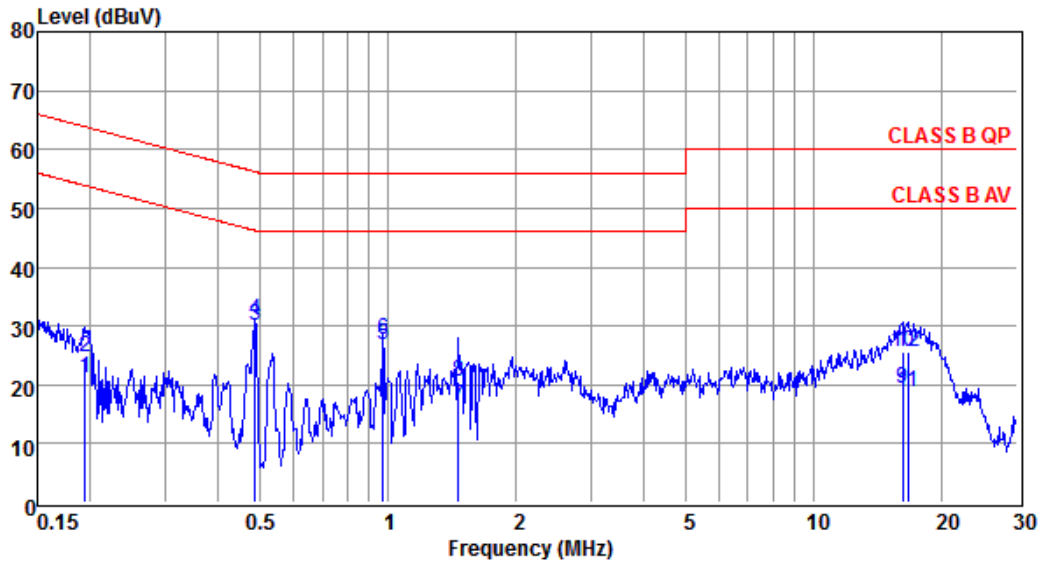
2.4 Test Result

Compliance

The final test data are shown on the following page(s).

Conducted Emission Test Data

Test Date : 2018-12-25 Power Line : Line
 Temperature : 24.2°C Humidity : 52%



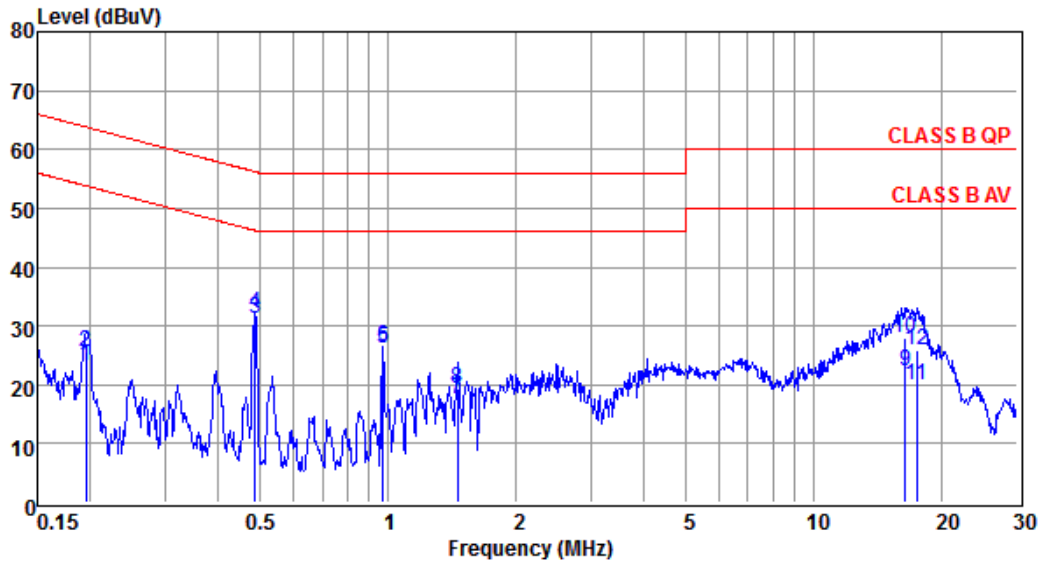
Freq	Read	C.F	Result	Limit	Margin	Remark	Phase
MHz	dBuV	dB	dBuV	dBuV	dB		
0.194	21.07	0.12	21.19	53.84	-32.65	Average	LINE
0.194	24.60	0.12	24.72	63.84	-39.12	QP	LINE
0.486	29.82	0.16	29.98	46.23	-16.25	Average	LINE
0.486	30.75	0.16	30.91	56.23	-25.32	QP	LINE
0.974	26.53	0.21	26.74	46.00	-19.26	Average	LINE
0.974	27.31	0.21	27.52	56.00	-28.48	QP	LINE
1.464	16.00	0.24	16.24	46.00	-29.76	Average	LINE
1.464	20.22	0.24	20.46	56.00	-35.54	QP	LINE
16.140	18.30	1.07	19.37	50.00	-30.63	Average	LINE
16.140	24.63	1.07	25.70	60.00	-34.30	QP	LINE
16.661	17.76	1.10	18.86	50.00	-31.14	Average	LINE
16.661	24.47	1.10	25.57	60.00	-34.43	QP	LINE

Note1: C.F (Correction Factor) = Insertion loss + Cable loss
 Note2: Margin = Result - Limit

Remark : All readings are Quasi-Peak and Average values.

Conducted Emission Test Data

Test Date : 2018-12-25 Power Line : Neutral
 Temperature : 24.2°C Humidity : 52%



Freq	Read	C.F	Result	Limit	Margin	Remark	Phase
MHz	dBuV	dB	dBuV	dBuV	dB		
0.195	23.03	0.12	23.15	53.80	-30.65	Average	NEUTRAL
0.195	25.58	0.12	25.70	63.80	-38.10	QP	NEUTRAL
0.486	31.01	0.15	31.16	46.23	-15.07	Average	NEUTRAL
0.486	31.86	0.15	32.01	56.23	-24.22	QP	NEUTRAL
0.974	25.91	0.19	26.10	46.00	-19.90	Average	NEUTRAL
0.974	26.33	0.19	26.52	56.00	-29.48	QP	NEUTRAL
1.456	17.29	0.22	17.51	46.00	-28.49	Average	NEUTRAL
1.456	18.98	0.22	19.20	56.00	-36.80	QP	NEUTRAL
16.398	21.19	0.99	22.18	50.00	-27.82	Average	NEUTRAL
16.398	27.00	0.99	27.99	60.00	-32.01	QP	NEUTRAL
17.475	18.85	1.03	19.88	50.00	-30.12	Average	NEUTRAL
17.475	24.91	1.03	25.94	60.00	-34.06	QP	NEUTRAL

Note1: C.F (Correction Factor) = Insertion loss + Cable loss
 Note2: Margin = Result - Limit

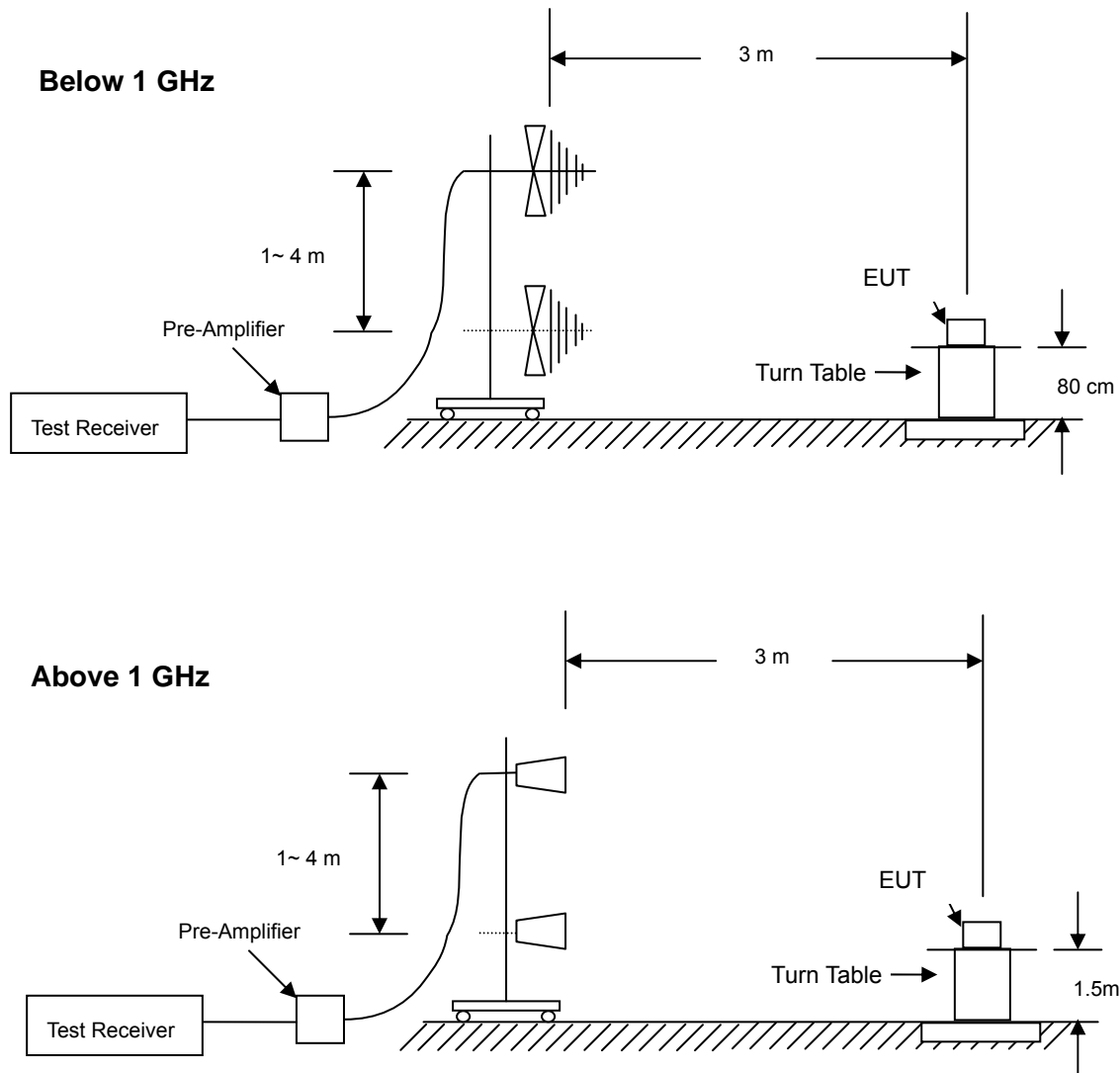
Remark : All readings are Quasi-Peak and Average values.

3 Radiated Emission Test

3.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

3.2 Test Arrangement and Procedure



1. The EUT is placed on a turntable, which is 0.8 m (below 1GHz) and 1.5m (above 1GHz) above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
4. Maxium procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer. Refer to each test results for detail setting up.
7. Repeat above procedures until the meausreemnts for all frequencies are complete.

3.3 Limit of Field Strength of Fundamental (§ 15.249)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field strength of fundamental (microvolts/ meter)	Field strength of harmonics (meters)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Note:

1. Field strength limits are specified at a distance of 3 meters.
2. For frequencies above 1000 MHz, the field strength limits in above table are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

3.4 Limit of Spurious Emission (§ 15.209)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is lesser attenuation.

Frequency (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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.§§ 15.231 and 15.241.

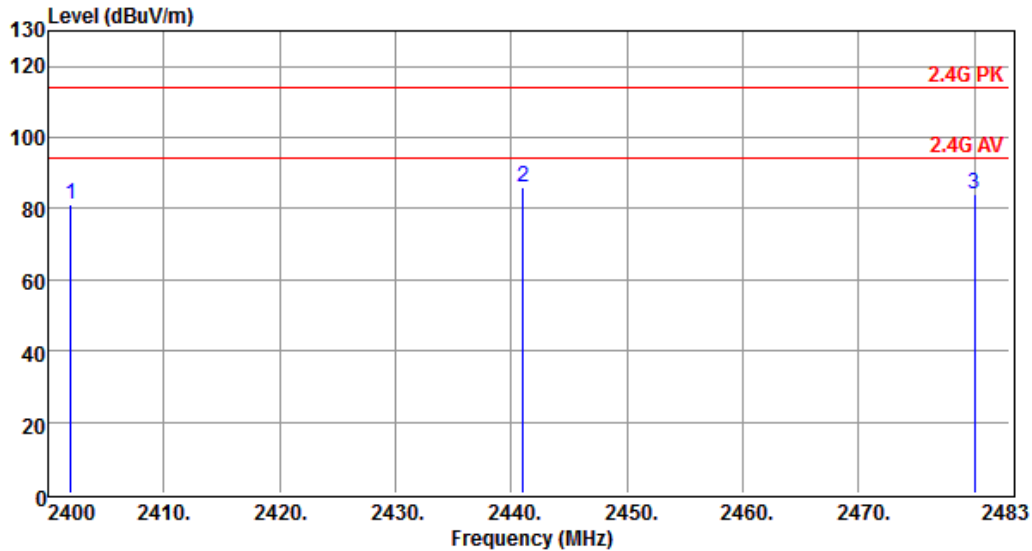
3.5 Test Result

Compliance

The final test data are shown on the following page(s).

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00, 39, 78 (1Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	87.32	-6.02	81.30	94.00	-12.70			VERTICAL	Peak
2441.000	92.07	-5.89	86.18	94.00	-7.82			VERTICAL	Peak
2480.000	89.87	-5.79	84.08	94.00	-9.92			VERTICAL	Peak

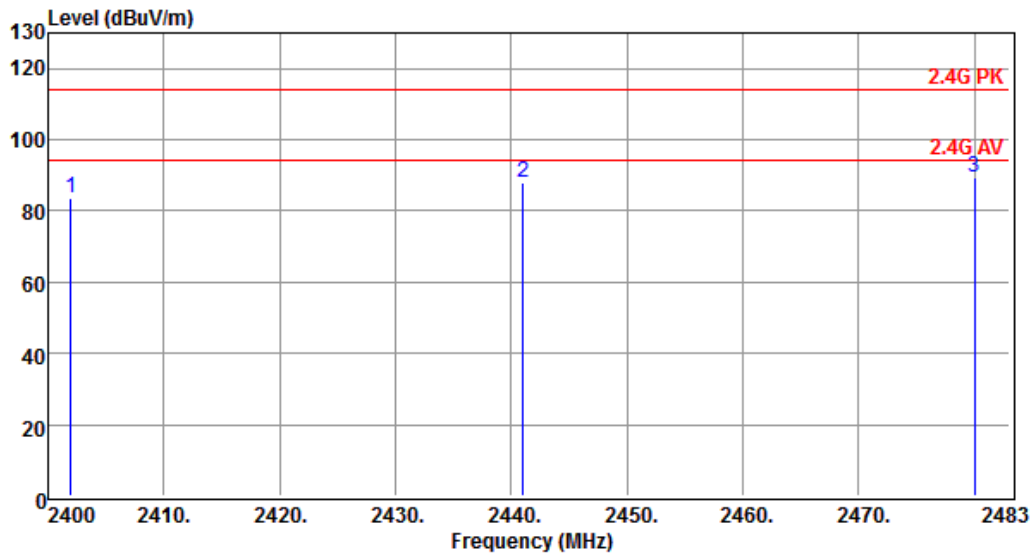
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00, 39, 78 (1Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	89.79	-6.02	83.77	94.00	-10.23			HORIZONTAL	Peak
2441.000	93.66	-5.89	87.77	94.00	-6.23			HORIZONTAL	Peak
2480.000	95.05	-5.79	89.26	94.00	-4.74			HORIZONTAL	Peak

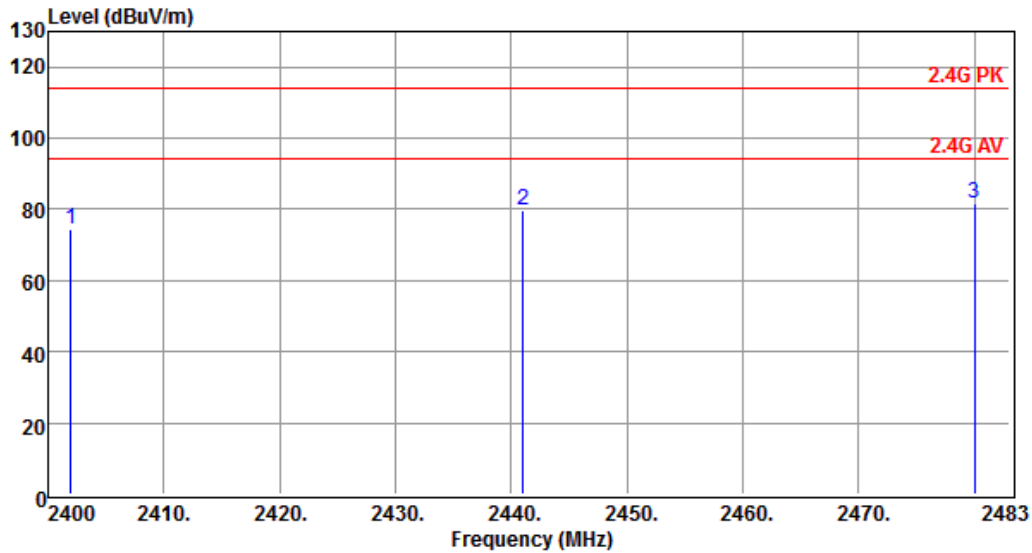
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
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1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00, 39, 78 (2Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	80.28	-6.02	74.26	94.00	-19.74			VERTICAL	Peak
2441.000	85.70	-5.89	79.81	94.00	-14.19			VERTICAL	Peak
2480.000	87.61	-5.79	81.82	94.00	-12.18			VERTICAL	Peak

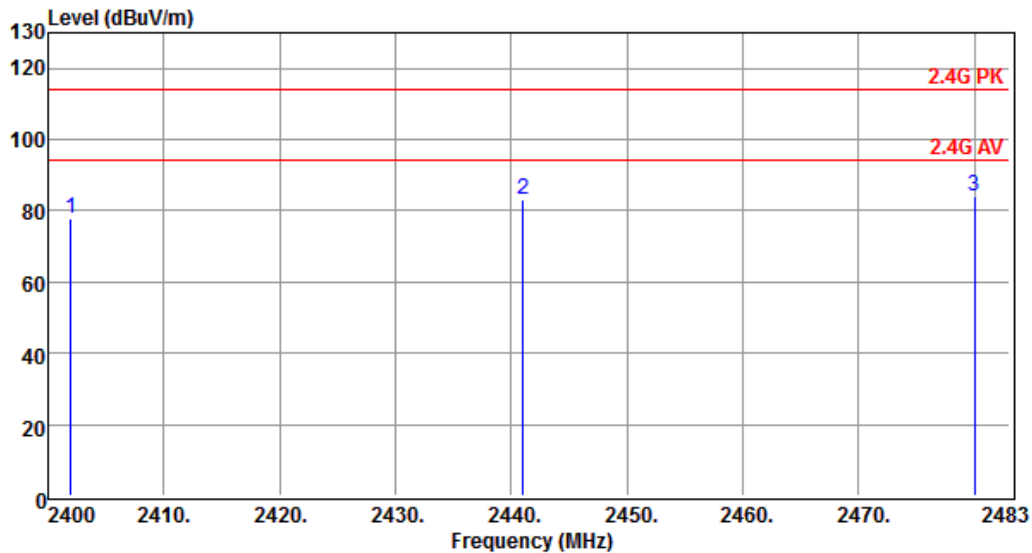
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00, 39, 78 (2Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	83.74	-6.02	77.72	94.00	-16.28			HORIZONTAL	Peak
2441.000	88.99	-5.89	83.10	94.00	-10.90			HORIZONTAL	Peak
2480.000	89.88	-5.79	84.09	94.00	-9.91			HORIZONTAL	Peak

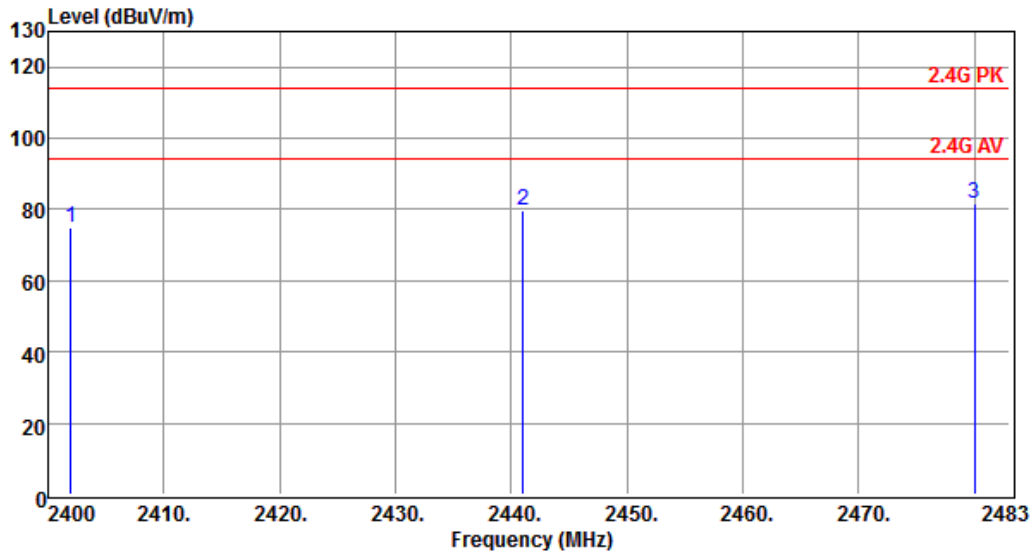
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00, 39, 78 (3Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	80.82	-6.02	74.80	94.00	-19.20			VERTICAL	Peak
2441.000	85.80	-5.89	79.91	94.00	-14.09			VERTICAL	Peak
2480.000	87.48	-5.79	81.69	94.00	-12.31			VERTICAL	Peak

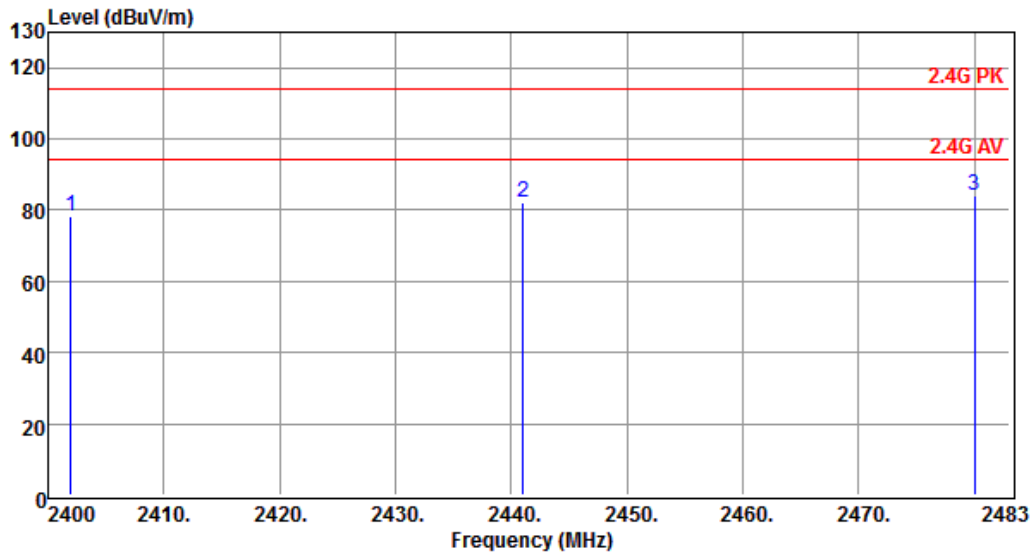
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Field Strength of Fundamental)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00, 39, 78 (3Mbps)
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2402.000	84.11	-6.02	78.09	94.00	-15.91			HORIZONTAL	Peak
2441.000	88.20	-5.89	82.31	94.00	-11.69			HORIZONTAL	Peak
2480.000	89.75	-5.79	83.96	94.00	-10.04			HORIZONTAL	Peak

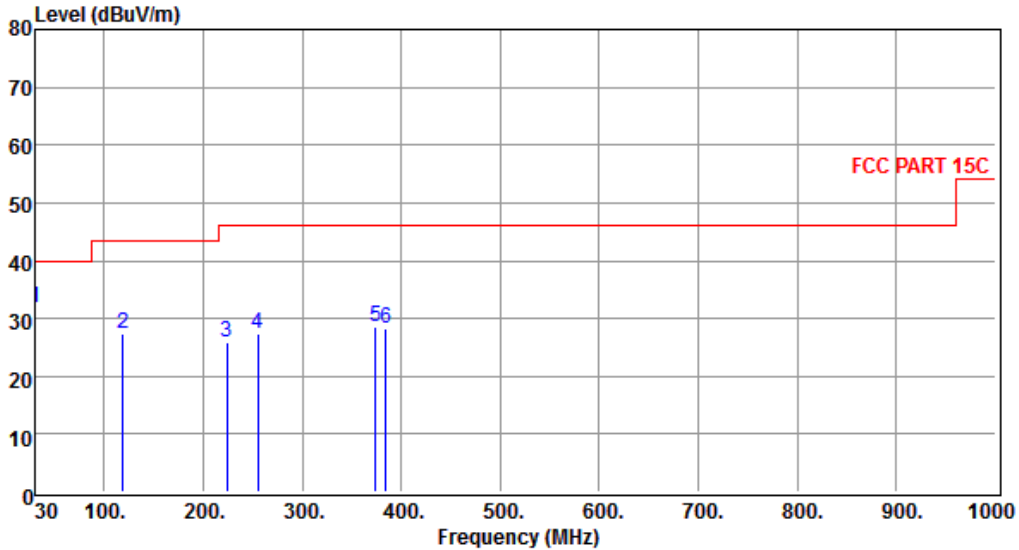
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 3MHz, VBW =10MHz, Sweep = AUTO.
 Note: Because the 20 dB Bandwidth is over 1MHz, the RBW setting of measuring Field strength of Fundamental should be 3MHz, and VBW should be at 10 MHz.

Radiated Emission Test Data (Below 1 GHz)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis		



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
30.000	35.87	-4.17	31.70	40.00	-8.30	----	----	VERTICAL	Peak
119.240	38.86	-11.36	27.50	43.50	-16.00	----	----	VERTICAL	Peak
224.000	38.85	-13.09	25.76	46.00	-20.24	----	----	VERTICAL	Peak
255.040	36.71	-9.31	27.40	46.00	-18.60	----	----	VERTICAL	Peak
374.350	35.85	-7.34	28.51	46.00	-17.49	----	----	VERTICAL	Peak
384.050	35.25	-7.02	28.23	46.00	-17.77	----	----	VERTICAL	Peak

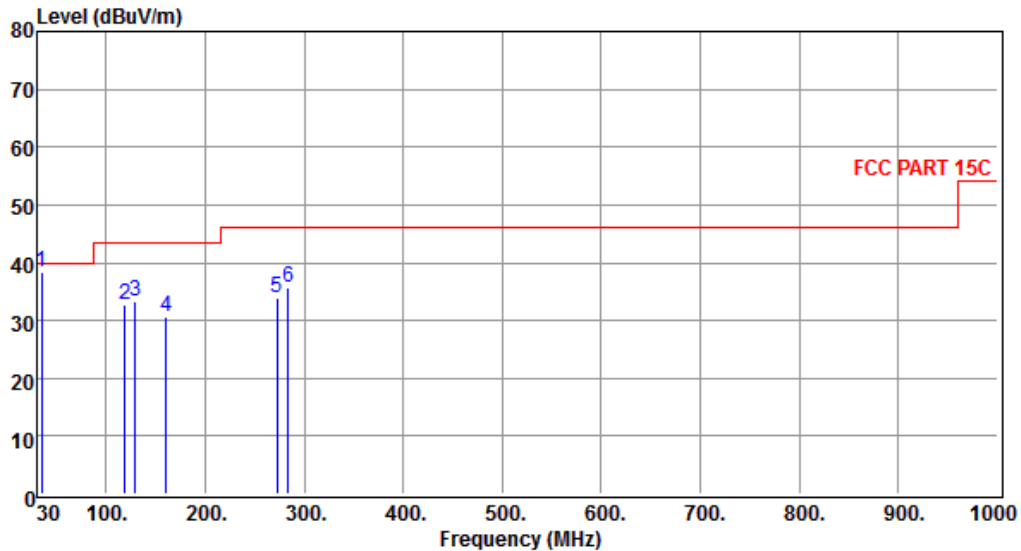
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. All readings are Peak values. None of the peak value reading exceeds the Q.P. limit. Hence, Q.P. reading was not measured.
5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

Radiated Emission Test Data (Below 1 GHz)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
34.850	44.96	-6.61	38.35	40.00	-1.65	---	---	HORIZONTAL	Peak
119.240	44.16	-11.36	32.80	43.50	-10.70	---	---	HORIZONTAL	Peak
128.940	44.69	-11.37	33.32	43.50	-10.18	---	---	HORIZONTAL	Peak
160.950	43.32	-12.55	30.77	43.50	-12.73	---	---	HORIZONTAL	Peak
272.500	43.66	-9.80	33.86	46.00	-12.14	---	---	HORIZONTAL	Peak
284.140	45.20	-9.61	35.59	46.00	-10.41	---	---	HORIZONTAL	Peak

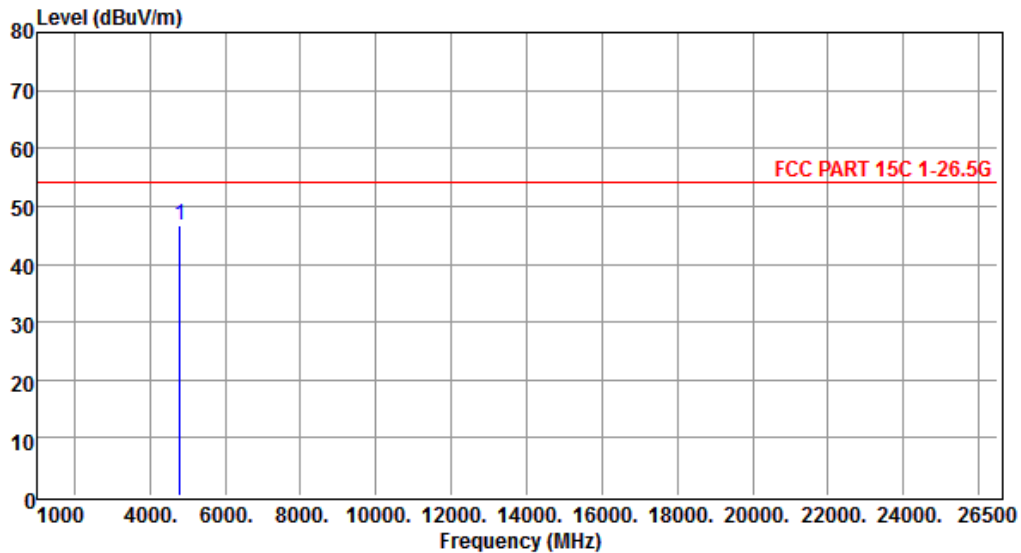
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 30 MHz to 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "----" in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
4. All readings are Peak values. None of the peak value reading exceeds the Q.P. limit. Hence, Q.P. reading was not measured.
5. The IF bandwidth of SPA between 30 MHz to 1 GHz was 100 kHz.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	43.74	3.09	46.83	54.00	-7.17			VERTICAL	Peak

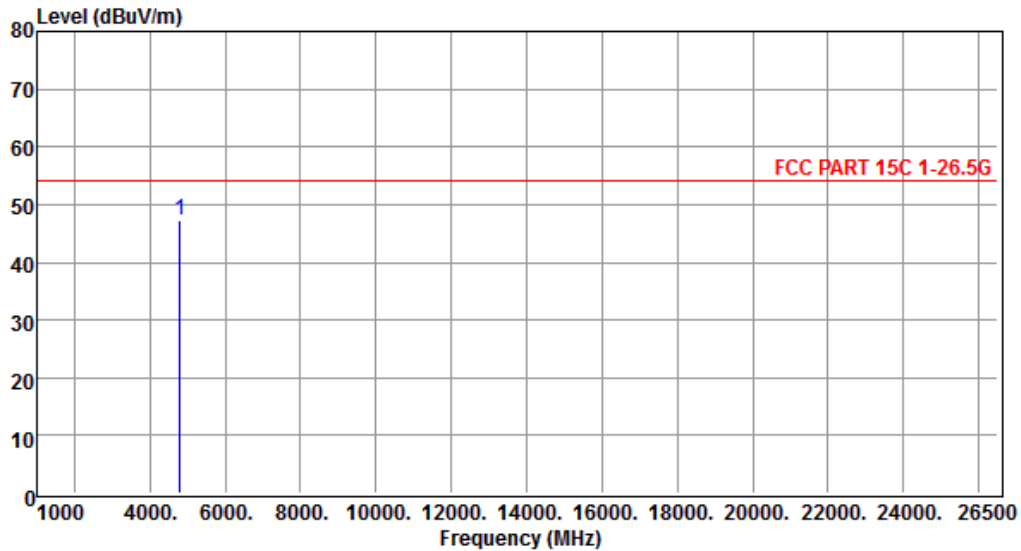
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	44.06	3.09	47.15	54.00	-6.85			HORIZONTAL	Peak

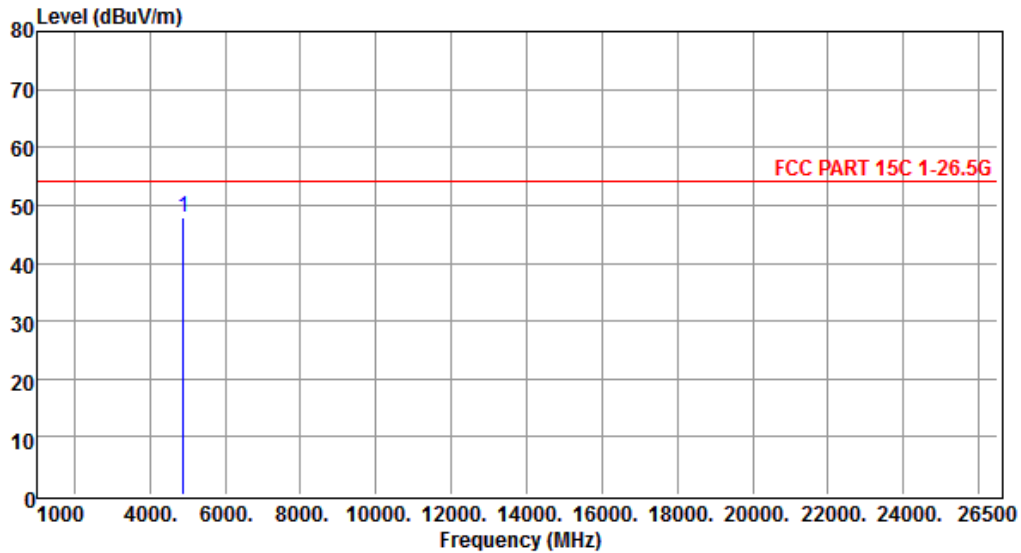
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH39
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	44.70	3.29	47.99	54.00	-6.01			VERTICAL	Peak

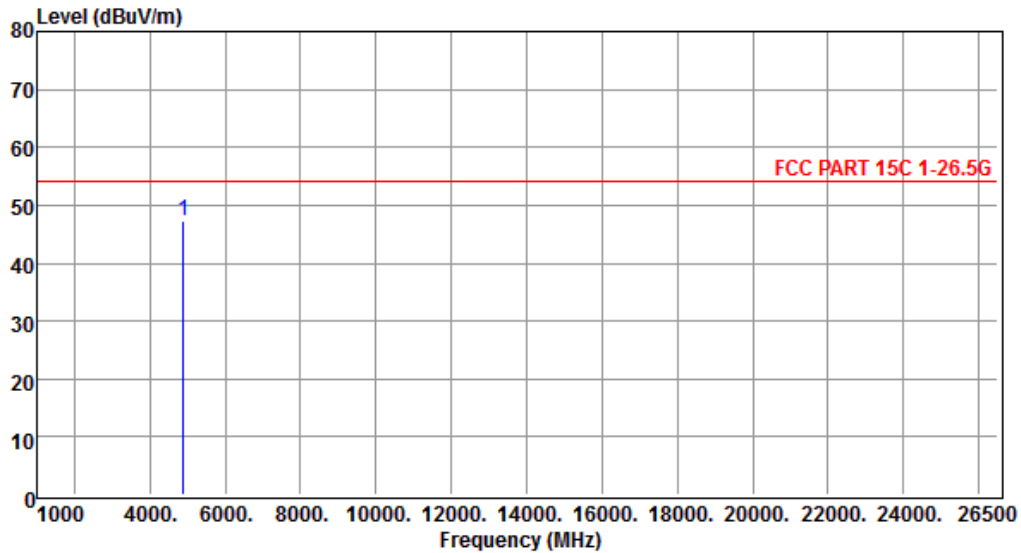
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH39
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	43.90	3.29	47.19	54.00	-6.81			HORIZONTAL	Peak

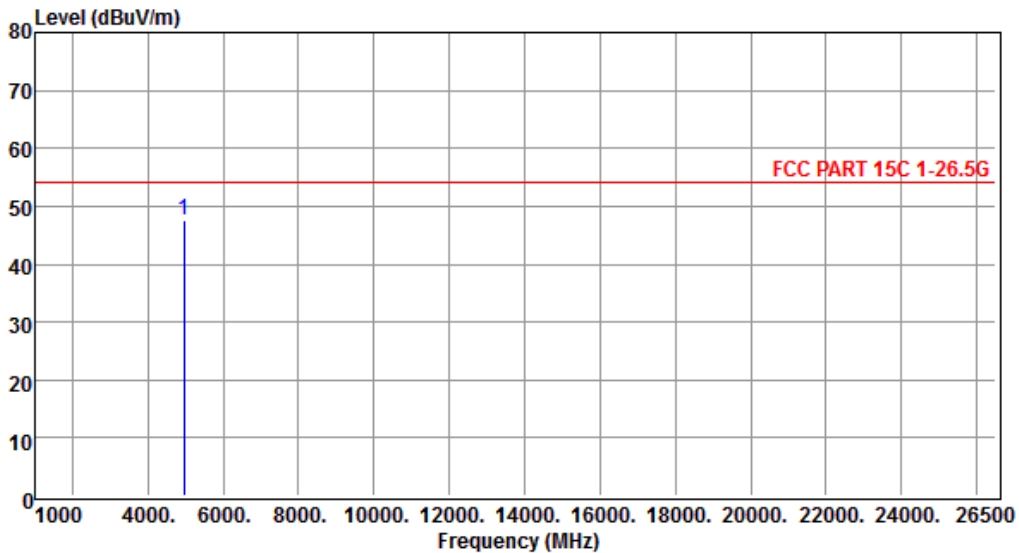
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	44.00	3.50	47.50	54.00	-6.50			VERTICAL	Peak

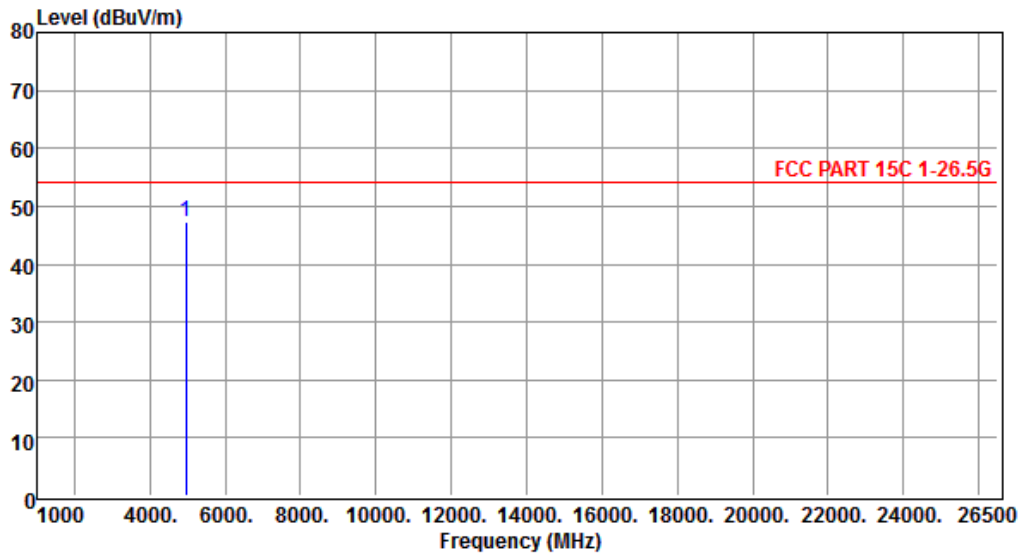
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	43.91	3.50	47.41	54.00	-6.59			HORIZONTAL	Peak

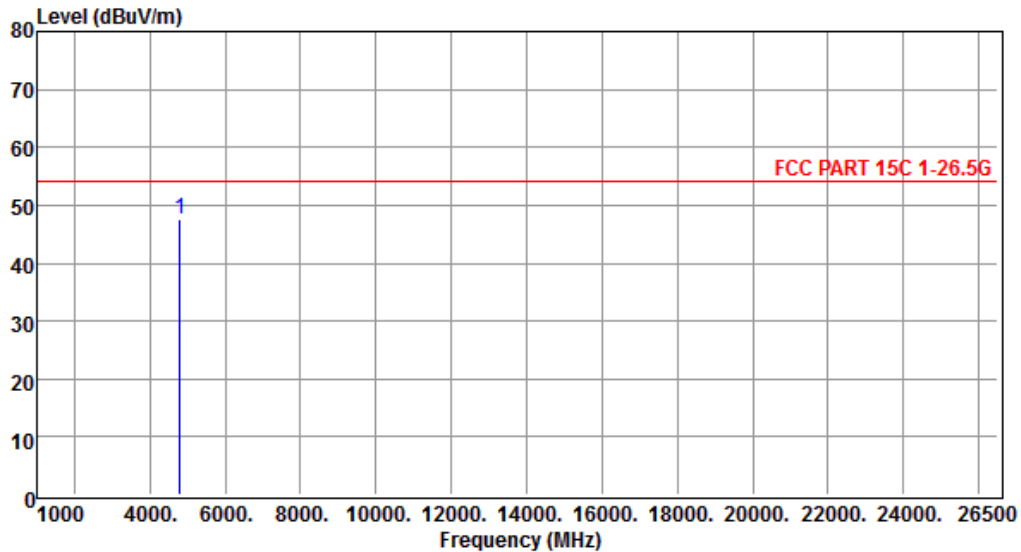
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	44.60	3.09	47.69	54.00	-6.31			VERTICAL	Peak

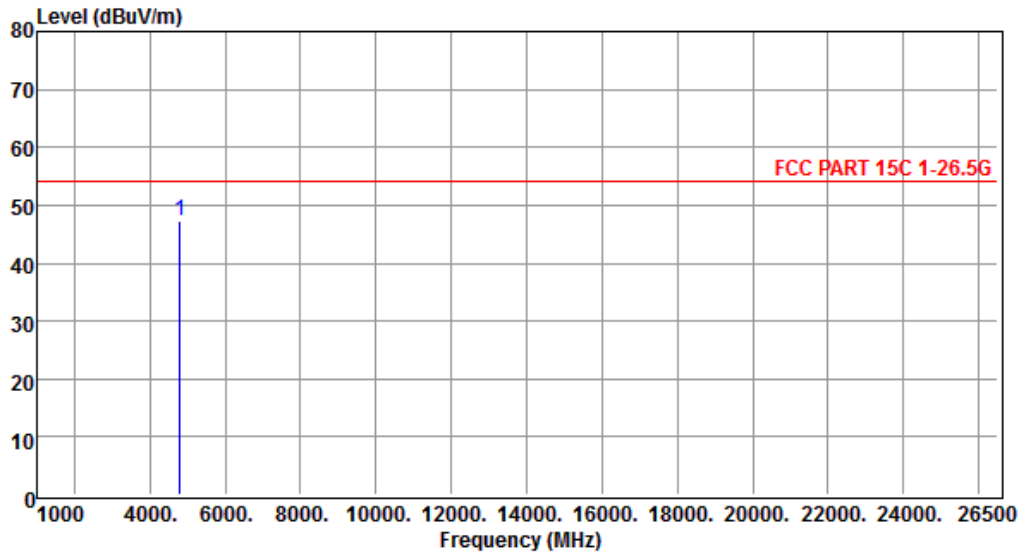
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	44.14	3.09	47.23	54.00	-6.77			HORIZONTAL	Peak

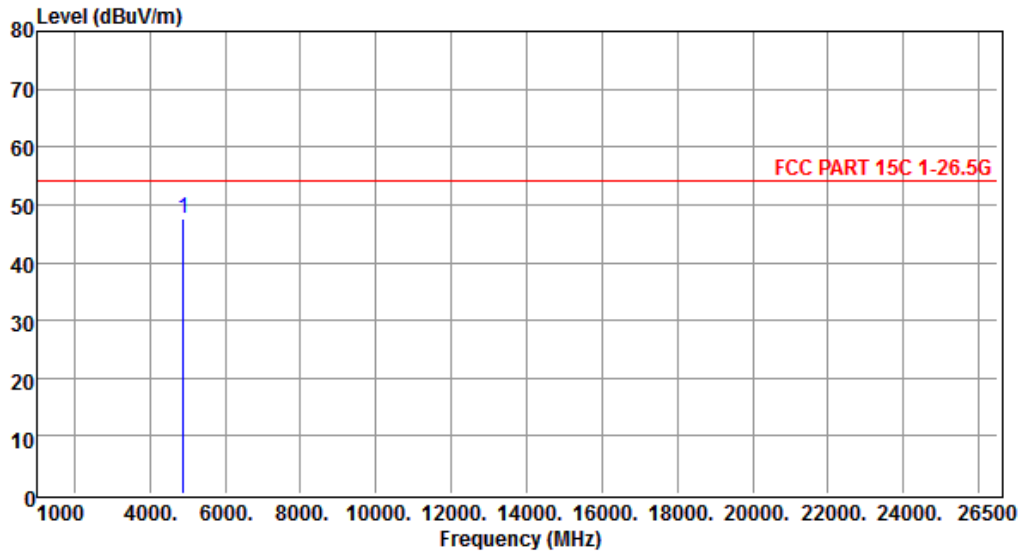
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH39
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	44.35	3.29	47.64	54.00	-6.36			VERTICAL	Peak

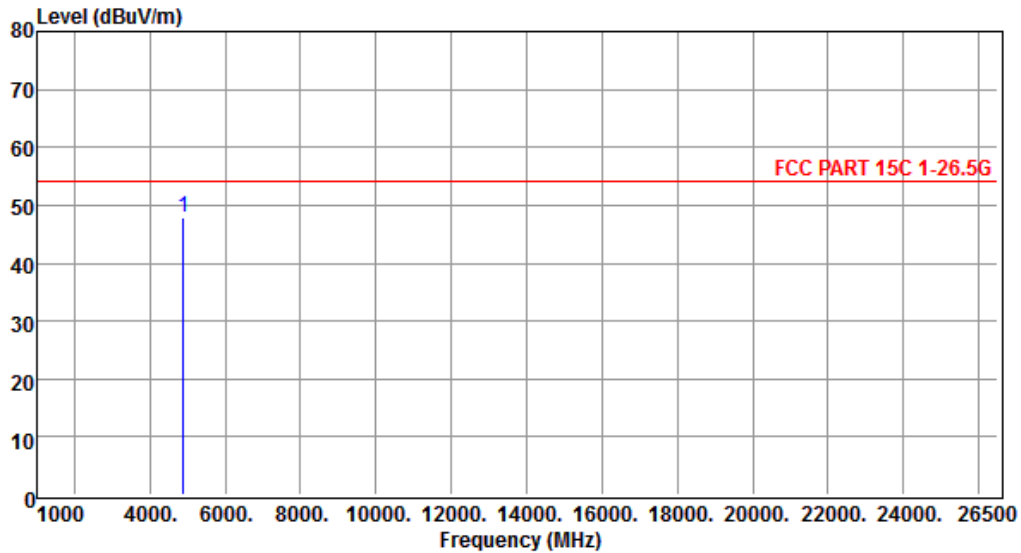
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH39
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	44.49	3.29	47.78	54.00	-6.22			HORIZONTAL	Peak

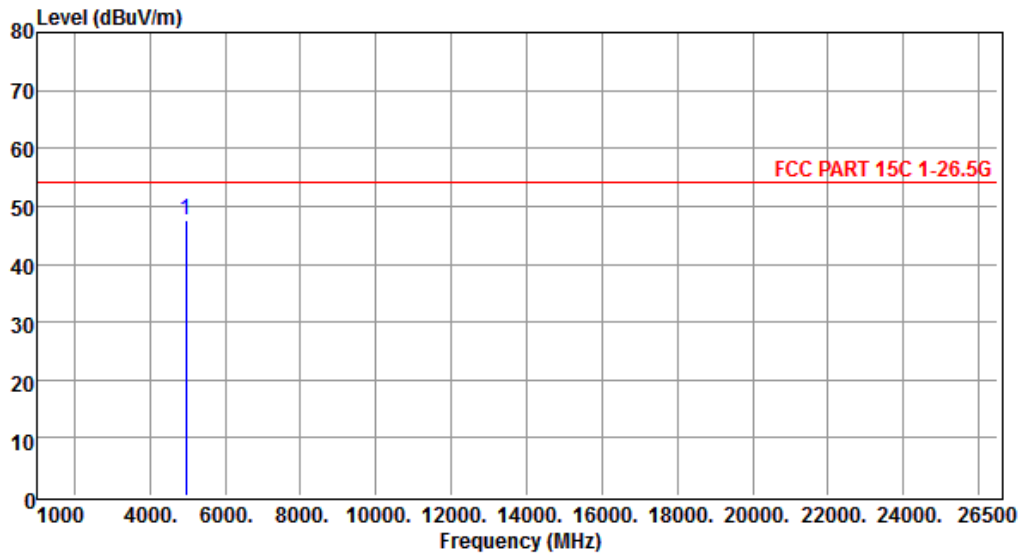
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	44.16	3.50	47.66	54.00	-6.34			VERTICAL	Peak

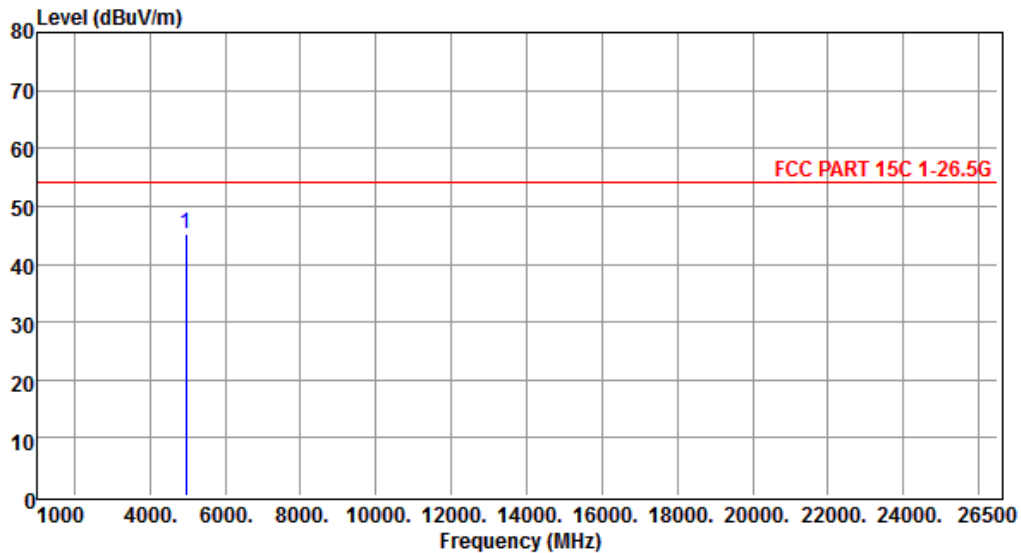
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	41.81	3.50	45.31	54.00	-8.69			HORIZONTAL	Peak

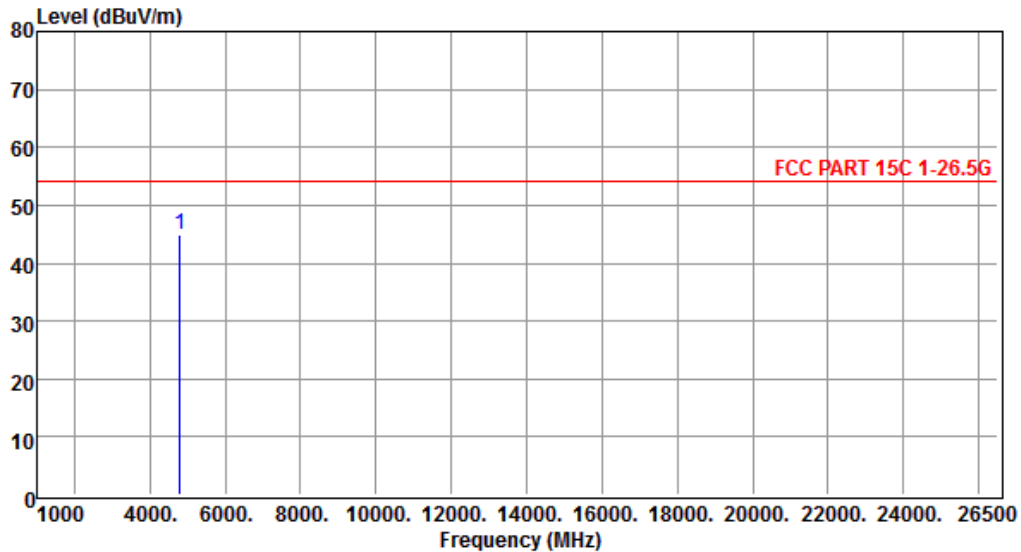
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	41.83	3.09	44.92	54.00	-9.08			VERTICAL	Peak

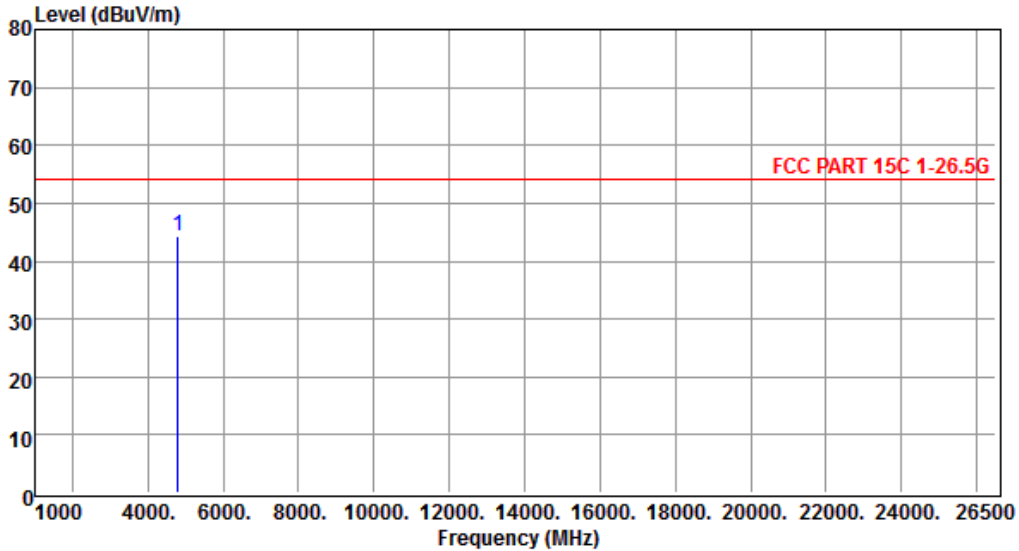
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4804.000	41.30	3.09	44.39	54.00	-9.61			HORIZONTAL	Peak

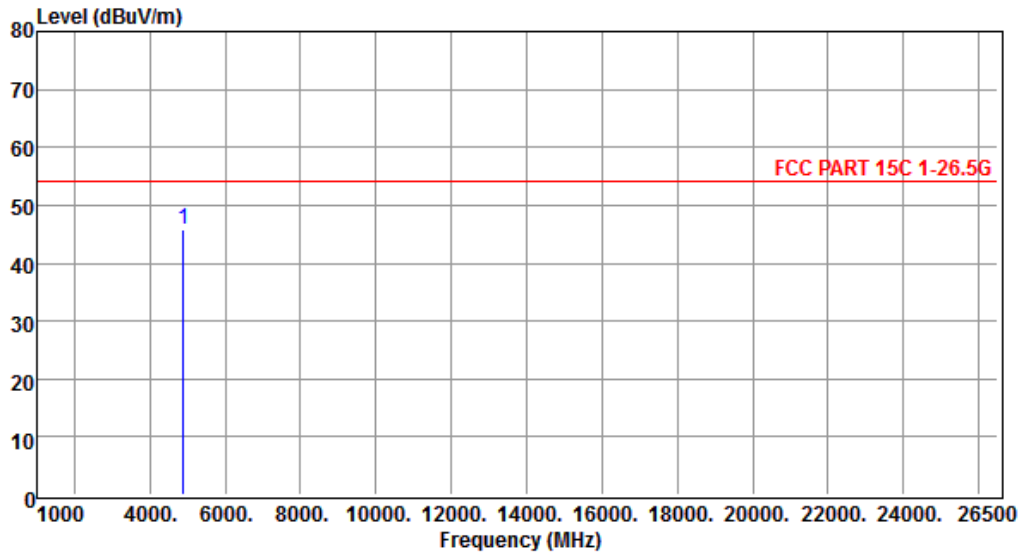
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH39
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	42.43	3.29	45.72	54.00	-8.28			VERTICAL	Peak

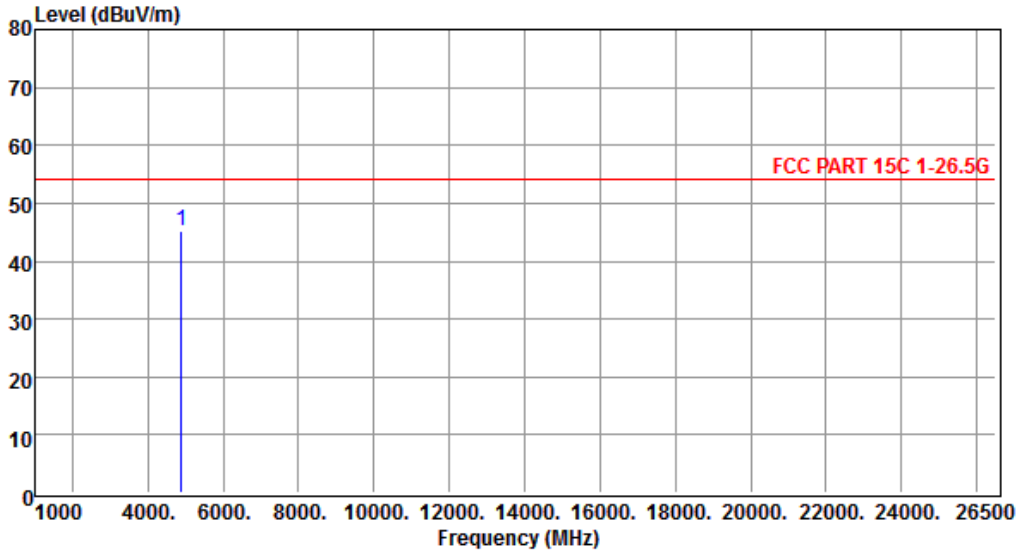
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH39
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4882.000	41.77	3.29	45.06	54.00	-8.94			HORIZONTAL	Peak

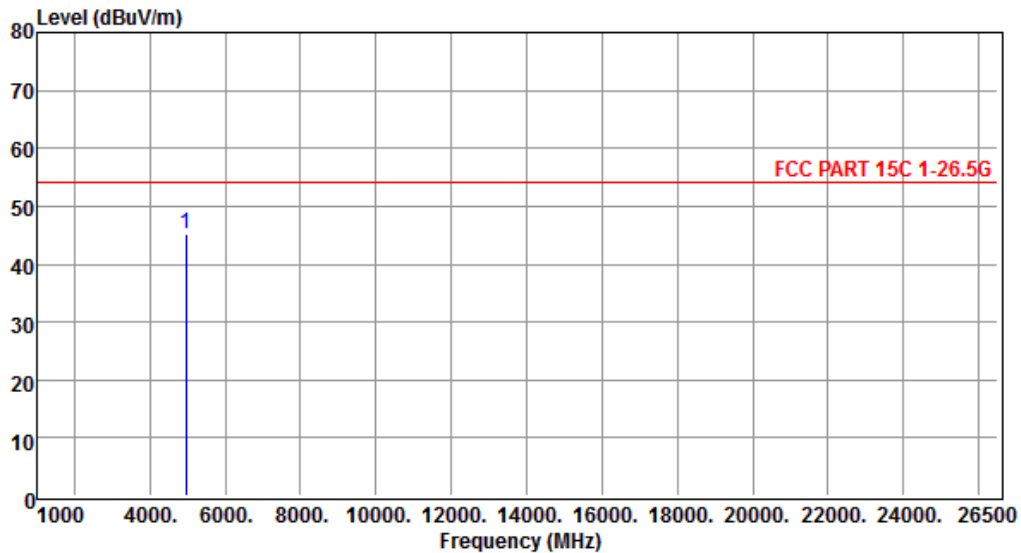
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	41.80	3.50	45.30	54.00	-8.70			VERTICAL	Peak

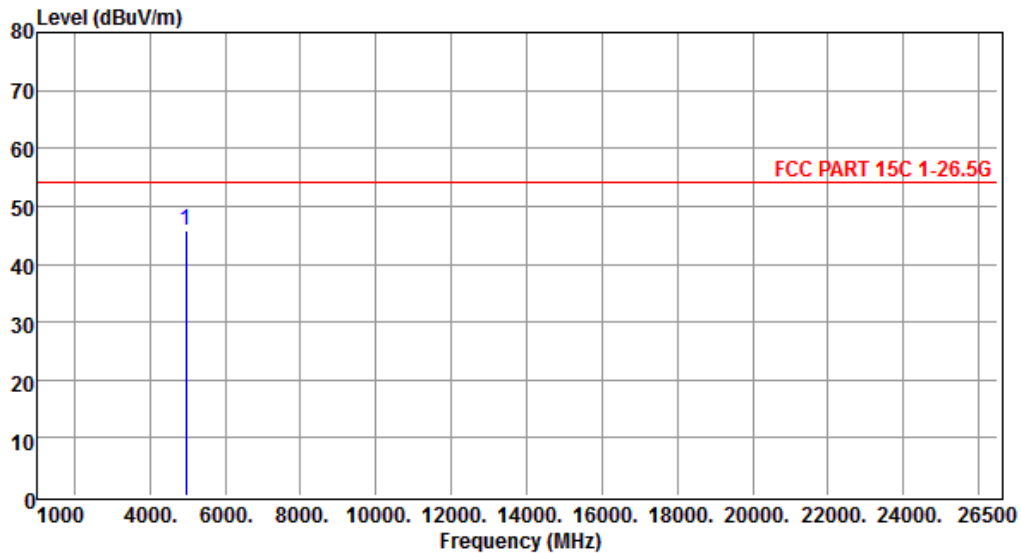
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Radiated Emission Test Data (Above and Field Strength to 10th Harmonic)

Temperature	: 24.2°C	Humidity	: 52%
Test Date	: 25-DEC-2018	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
4960.000	42.18	3.50	45.68	54.00	-8.32			HORIZONTAL	Peak

Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

4 Out of Band Emission Test

4.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

4.2 Test Arrangement and Procedure

Refer to Sec. 3.2.

4.3 Limit of Field Strength of Fundamental (§ 15.249(d))

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

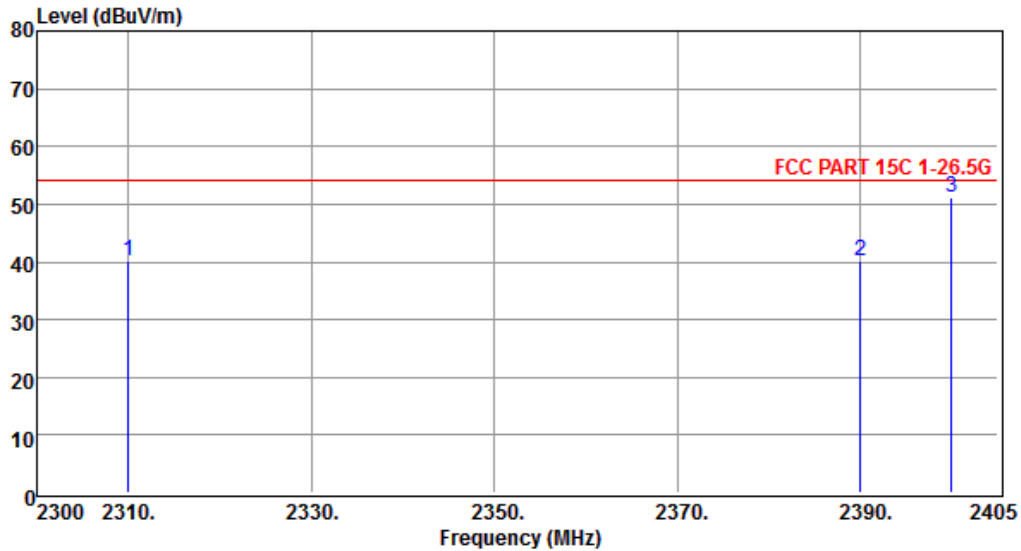
4.4 Test Result

Compliance

The final test data are shown on the following page(s).

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data Rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2310.000	46.35	-6.29	40.06	54.00	-13.94			VERTICAL	Peak
2390.000	46.15	-6.06	40.09	54.00	-13.91			VERTICAL	Peak
2400.000	57.14	-6.03	51.11	54.00	-2.89			VERTICAL	Peak

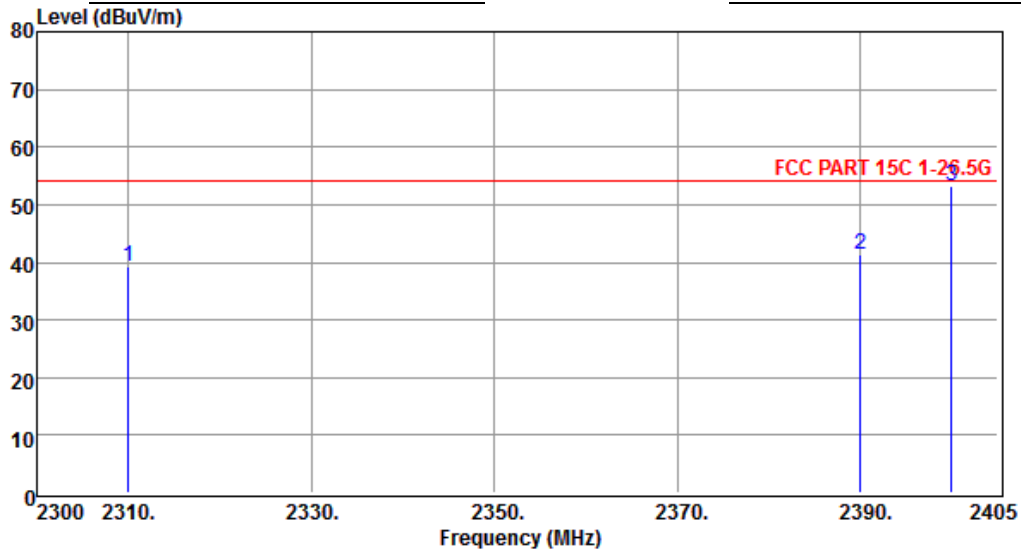
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data Rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2310.000	45.43	-6.29	39.14	54.00	-14.86			HORIZONTAL	Peak
2390.000	47.41	-6.06	41.35	54.00	-12.65			HORIZONTAL	Peak
2400.000	59.21	-6.03	53.18	54.00	-0.82			HORIZONTAL	Peak

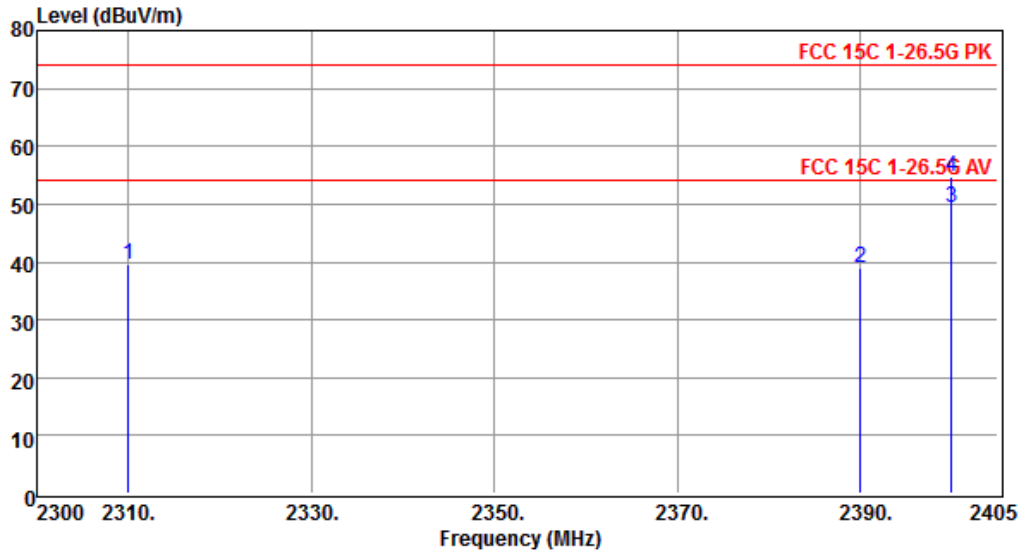
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data Rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2309.975	45.92	-6.29	39.63	74.00	-34.37			VERTICAL	Peak
2390.000	44.92	-6.06	38.86	74.00	-35.14			VERTICAL	Peak
2400.000	55.39	-6.03	49.36	54.00	-4.64			VERTICAL	Average
2400.000	60.87	-6.03	54.84	74.00	-19.16			VERTICAL	Peak

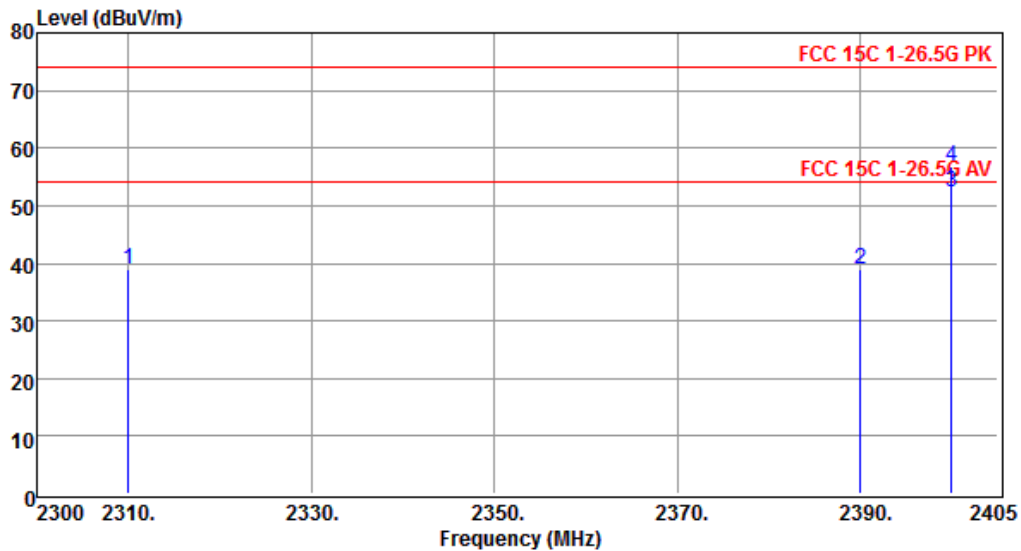
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data Rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2310.000	45.27	-6.29	38.98	74.00	-35.02			HORIZONTAL	Peak
2390.000	44.97	-6.06	38.91	74.00	-35.09			HORIZONTAL	Peak
2400.000	58.26	-6.03	52.23	54.00	-1.77			HORIZONTAL	Average
2400.000	62.94	-6.03	56.91	74.00	-17.09			HORIZONTAL	Peak

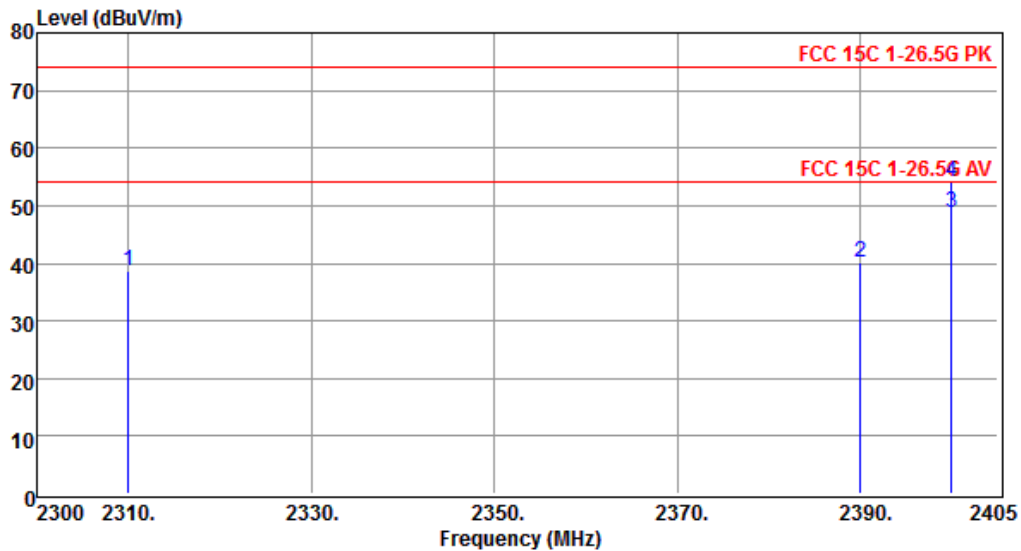
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH00
EUT Position	: X axis	Data Rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2310.000	44.85	-6.29	38.56	74.00	-35.44			VERTICAL	Peak
2390.000	46.26	-6.06	40.20	74.00	-33.80			VERTICAL	Peak
2400.000	54.94	-6.03	48.91	54.00	-5.09			VERTICAL	Average
2400.000	60.10	-6.03	54.07	74.00	-19.93			VERTICAL	Peak

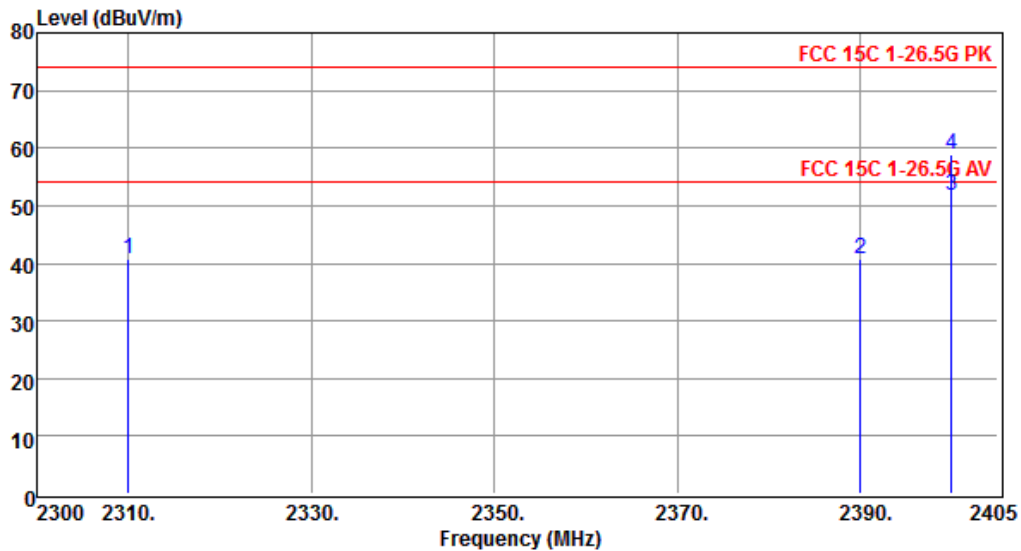
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Lower Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH00
EUT Position	: X axis	Data Rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2309.975	47.06	-6.29	40.77	74.00	-33.23			HORIZONTAL	Peak
2390.000	46.68	-6.06	40.62	74.00	-33.38			HORIZONTAL	Peak
2400.000	57.76	-6.03	51.73	54.00	-2.27			HORIZONTAL	Average
2400.000	64.90	-6.03	58.87	74.00	-15.13			HORIZONTAL	Peak

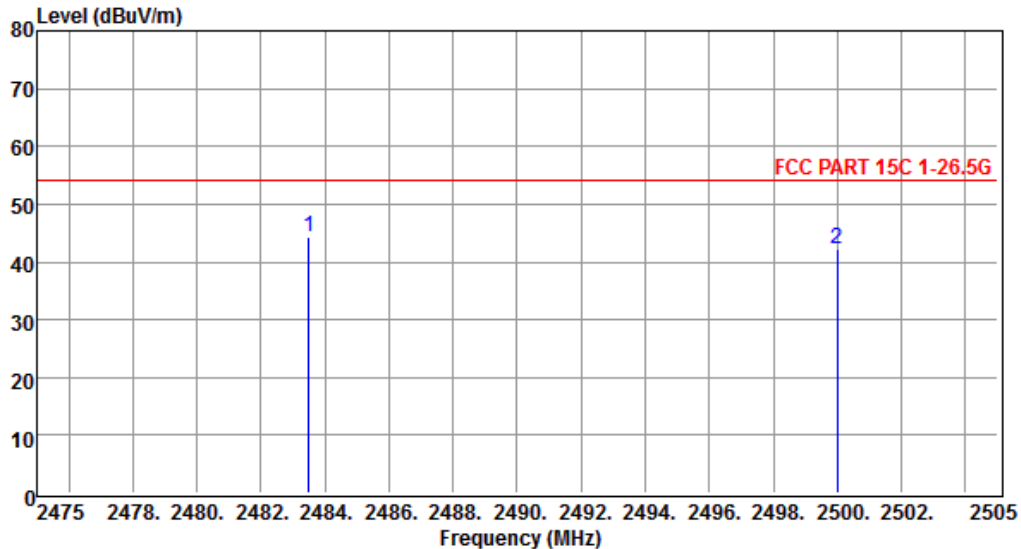
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (b) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data Rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	49.94	-5.77	44.17	54.00	-9.83			VERTICAL	Peak
2500.000	47.87	-5.72	42.15	54.00	-11.85			VERTICAL	Peak

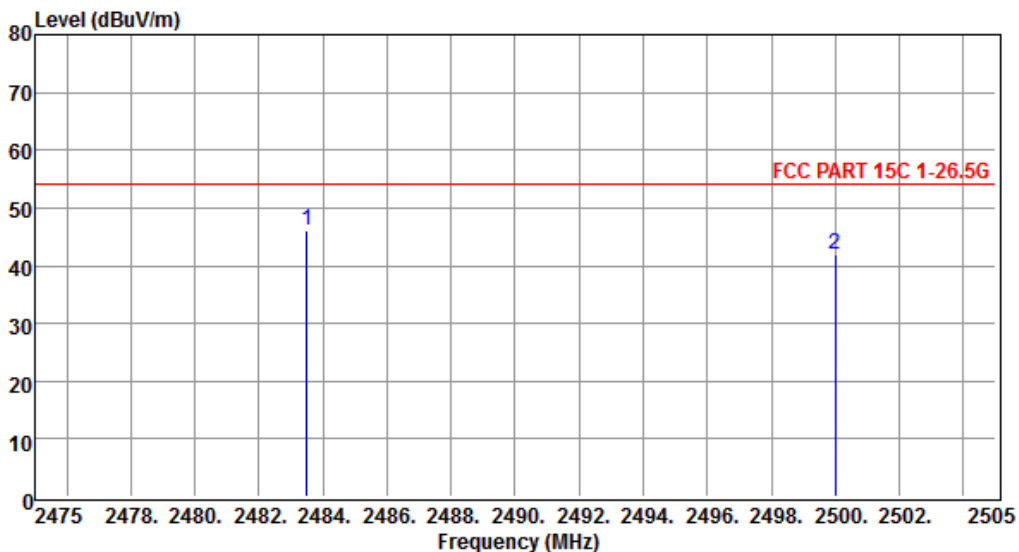
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
 - Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data Rate	: 1Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	51.99	-5.77	46.22	54.00	-7.78			HORIZONTAL	Peak
2500.000	47.77	-5.72	42.05	54.00	-11.95			HORIZONTAL	Peak

Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

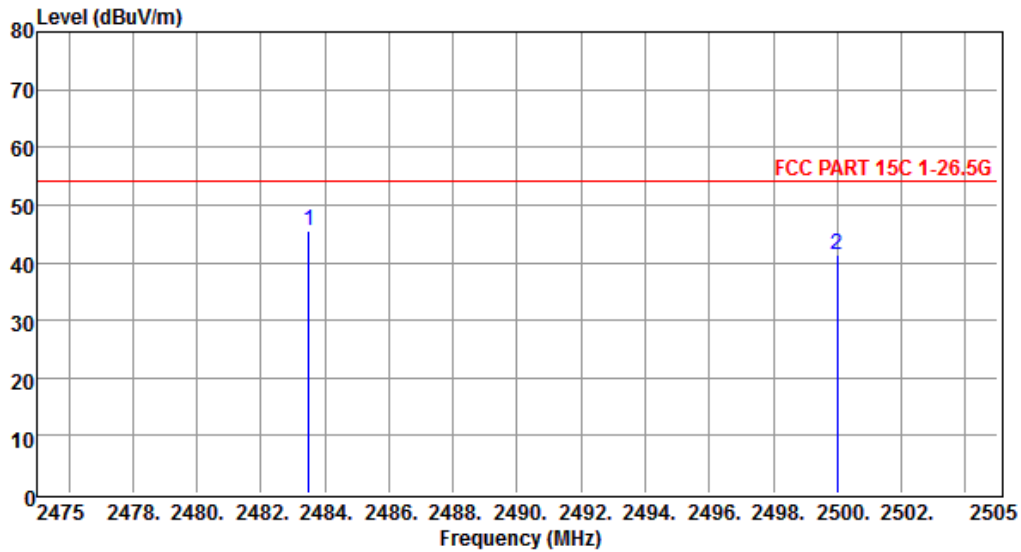
Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
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4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 - (a) Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data Rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	51.15	-5.77	45.38	54.00	-8.62			VERTICAL	Peak
2500.000	46.97	-5.72	41.25	54.00	-12.75			VERTICAL	Peak

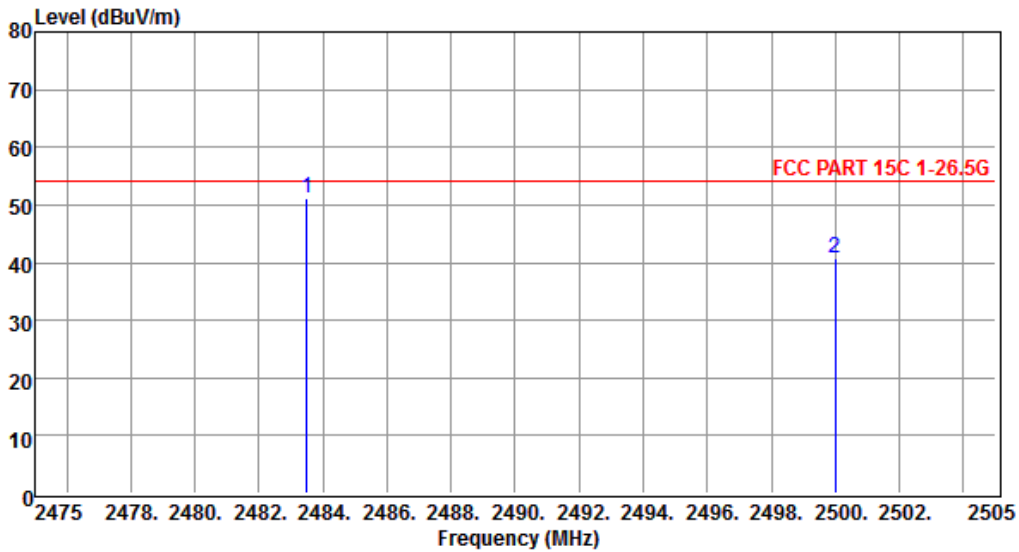
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
 - Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data Rate	: 2Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	56.94	-5.77	51.17	54.00	-2.83			HORIZONTAL	Peak
2500.000	46.34	-5.72	40.62	54.00	-13.38			HORIZONTAL	Peak

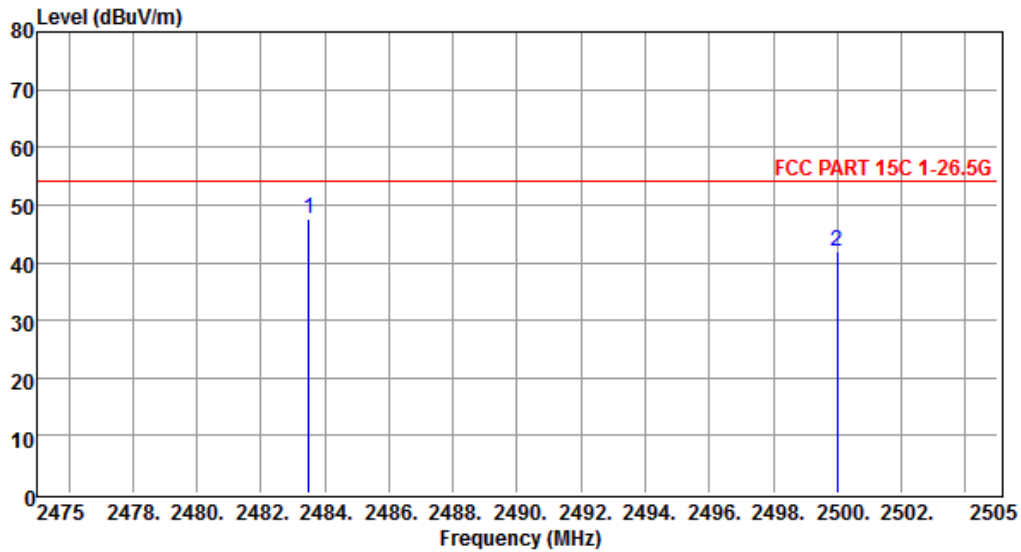
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
5. Spectrum setting:
 Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Vertical	Channel	: CH78
EUT Position	: X axis	Data Rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	53.34	-5.77	47.57	54.00	-6.43			VERTICAL	Peak
2500.000	47.72	-5.72	42.00	54.00	-12.00			VERTICAL	Peak

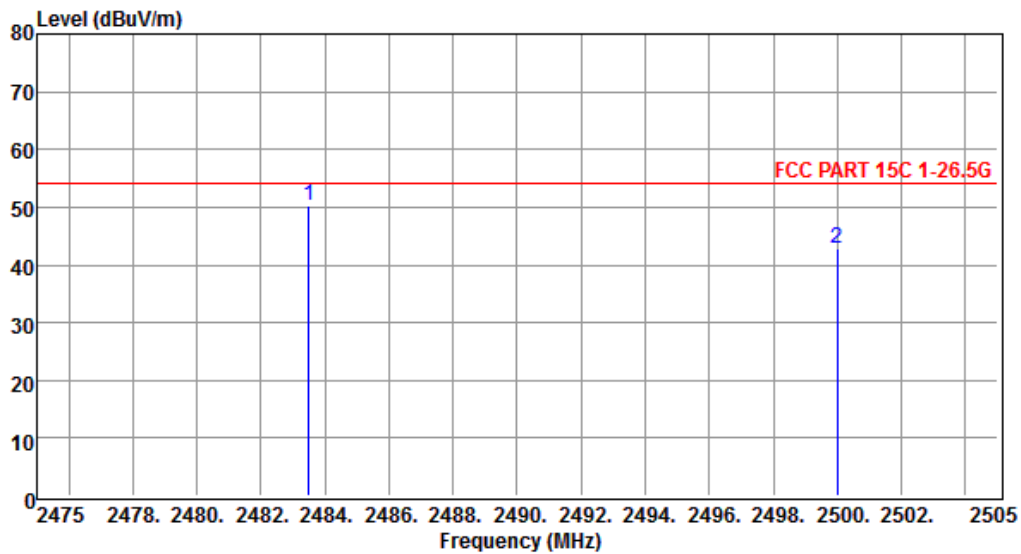
Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
 - Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

Band-Edge Test Data (Upper Edge)

Temperature	: 24.3°C	Humidity	: 43%
Test Date	: 28-Nov-2017	Tested by	: Eason Hsieh
Polarization	: Horizontal	Channel	: CH78
EUT Position	: X axis	Data Rate	: 3Mbps



Freq	Reading	C.F	Result	Limit	Margin	A/H	T/P	Polarity	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg		
2483.500	56.02	-5.77	50.25	54.00	-3.75			HORIZONTAL	Peak
2500.000	48.52	-5.72	42.80	54.00	-11.20			HORIZONTAL	Peak

Note1: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
 Note2: Margin = Result - Limit

Remark :

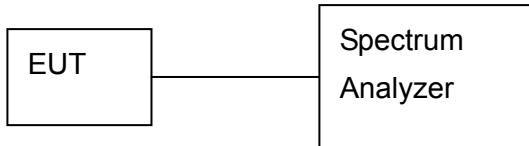
- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- All readings are Peak values. None of the peak value reading exceeds the A.V. limit. Hence, A.V. reading was not measured.
- Spectrum setting:
 - Peak Setting 1GHz to 10th harmonics of fundamental, RBW = VBW = 1MHz, Sweep = AUTO.

5 20 dB Bandwidth

5.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

5.2 Test Arrangement and Procedure



1. The transmitter output was connected to a spectrum analyzer (through an attenuator, if it's necessary).
2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. Measured the -20 dB bandwidth and plotted the graph.

5.3 Limit

None; For report purpose only.

5.4 Test Result

No non-compliance noted.

The final test data are shown on the following page(s).