



Radio Test Report

Report No.: STS2604036W10

Issued for

JIAHANG TECHNOLOGY (HONG KONG) CO., LIMITED
19H MAXGRAND PLAZA 3 TAI YAU STREET SAN PO
KONG KL HONG KONG China

Product Name: TABLET

Brand Name: N/A

Model Name: T20

Series Model(s): N/A

FCC ID: 2BU85-T20

Test Standards: 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: JIAHANG TECHNOLOGY (HONG KONG) CO., LIMITED
Address: 19H MAXGRAND PLAZA 3 TAI YAU STREET SAN PO KONG KL
HONG KONG China
Manufacturer's Name: LUZHENG TECHNOLOGY HONGKONG LIMITED
Address: ROOM A08, 2/F LEE KA INDUSTRIAL BUILDING 8 NG FONG
STREET SAN PO KONG HK China

Product Description

Product Name: TABLET
Brand Name: N/A
Model Name: T20
Series Model(s): N/A

Test Standards: FCC Part15.407

Test Procedure ANSI C63.10-2020+Cor 1-2023

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: 09 Apr. 2026
Date (s) of performance of tests: 09 Apr. 2026~20 Apr. 2026
Date of Issue: 20 Apr. 2026
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 Apr. 2026	STS2604036W10	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	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203	Antenna Requirement	PASS
15.407(g)	Frequency Stability	PASS

Note:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020+Cor 1-2023.



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 expanded 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	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	TABLET	
Brand Name	N/A	
Model Name	T20	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is TABLET	
	Operation Frequency:	IEEE 802.11a/n/ac (20M): 5.180GHz-5.240GHz IEEE 802.11n/ac (40M): 5.190GHz-5.230GHz IEEE 802.11 ac (80M): 5.210GHz
		IEEE 802.11 a/n/ac (20M): 5.745GHz-5.825GHz IEEE 802.11n/ac (40M): 5.755GHz-5.795GHz IEEE 802.11 ac (80M): 5.775GHz
	Modulation Type:	802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM): BPSK,QPSK,16-QAM,64-QAM,256-QAM
	Antenna Type:	FPC Antenna
	Antenna Gain:	5.2G RLAN:3.41dBi 5.8G RLAN:3.93 dBi
More details of EUT technical specification, please refer to the User Manual.		
Test Channel	Please refer to the Note 3.	
Power Rating	N/A	
Adapter	Model: KWY10W-0502000US Input: 100-240V~ 50/60Hz 0.3A Output: 5V== 2000mA, Max 10W	
Battery	Model:HBT-30100125 Rated Voltage: 3.8V Charge Limit Voltage: 4.35V Capacity: 5000mAh	
Hardware version number	W30-T616ES-V2.0	
Software version number	V1.0	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note

- For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues.

3.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	155	5775
44	5220	157	5785
46	5230	159	5795
48	5240	161	5805
		165	5825

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:

For 802.11a/n(HT20)/ac(VHT20)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11 n(HT40)/ac(VHT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
38	5190	151	5755
46	5230	159	5795

For 802.11ac (VHT80)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)
42	5210	155	5775

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	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 11	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

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 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: Keeping WLAN TX

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.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-1 (5150MHz-5250MHz)	802.11a	3.41	7	Engineering mode
		802.11n(HT20)		6	
		802.11n(HT40)		6	
		802.11ac(VHT20)		6	
		802.11ac(VHT40)		6	
		802.11ac(VHT80)		6	

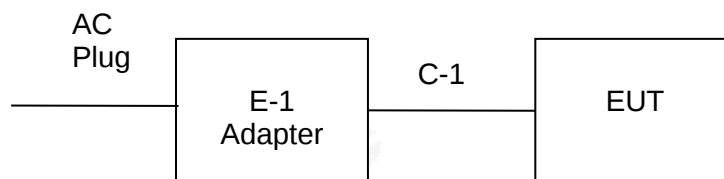
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(5G)	U-NII-3 (5725MHz-5850MHz)	802.11a	3.93	7	Engineering mode
		802.11n(HT20)		6	
		802.11n(HT40)		6	
		802.11ac(VHT20)		6	
		802.11ac(VHT40)		6	
		802.11ac(VHT80)		6	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



RF Conducted 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-1	Adapter	N/A	KWY10W-0502000EU	N/A
C-1	USB Cable	N/A	KWY10W-0502000EU	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-1	Shielded	NO	100cm	N/A

Note:

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

2.6 EQUIPMENTS LIST

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3 GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18 GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40 GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 5.1G-5.8G Filter	HX MICROWAVE	HXLBQ-DZA62	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
RF Coaxial Cable	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable)	LEITAI M-WAVE	CA360	DC-18G	2025.09.26	2026.09.25
RF Coaxial Cable)	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
RF Coaxial Cable)	LEITAI M-WAVE	CA3507	DC-40G	2025.09.26	2026.09.25
Turn Table	MF	SC100 1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFE NG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
RF Coaxial Cable	XINQY	CT26PE	DC-26.5G	2026.02.04	2027.02.03
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
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

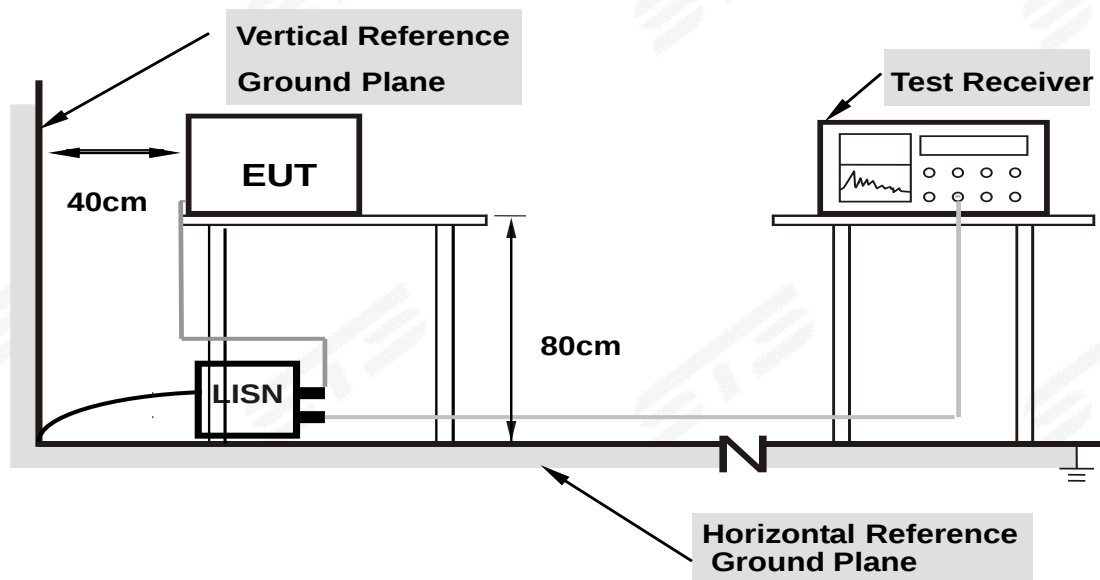
3.1.2 TEST PROCEDURE

- 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

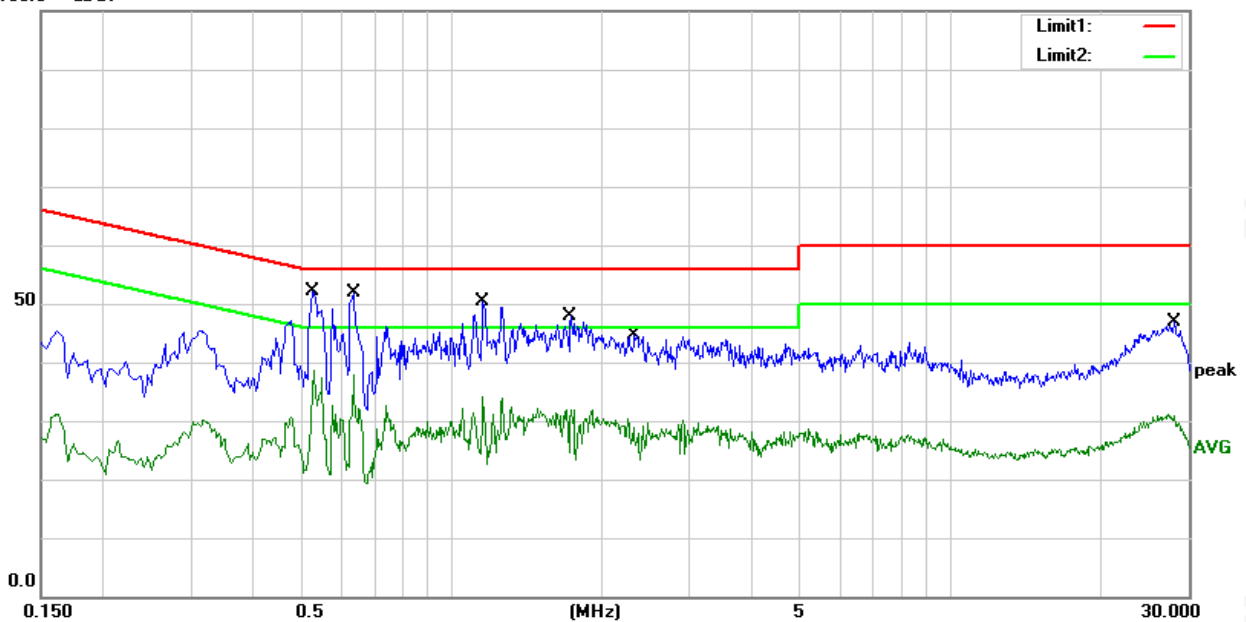
Temperature:	24.7°C	Relative Humidity:	57.9%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode :	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.5260	32.69	19.39	52.08	56.00	-3.92	QP
2	0.5260	19.31	19.39	38.70	46.00	-7.30	AVG
3	0.6340	32.57	19.37	51.94	56.00	-4.06	QP
4	0.6340	18.39	19.37	37.76	46.00	-8.24	AVG
5	1.1580	30.94	19.35	50.29	56.00	-5.71	QP
6	1.1580	14.70	19.35	34.05	46.00	-11.95	AVG
7	1.7420	28.53	19.35	47.88	56.00	-8.12	QP
8	1.7420	12.65	19.35	32.00	46.00	-14.00	AVG
9	2.3260	25.27	19.37	44.64	56.00	-11.36	QP
10	2.3260	12.49	19.37	31.86	46.00	-14.14	AVG
11	28.0460	27.35	19.64	46.99	60.00	-13.01	QP
12	28.0460	11.40	19.64	31.04	50.00	-18.96	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



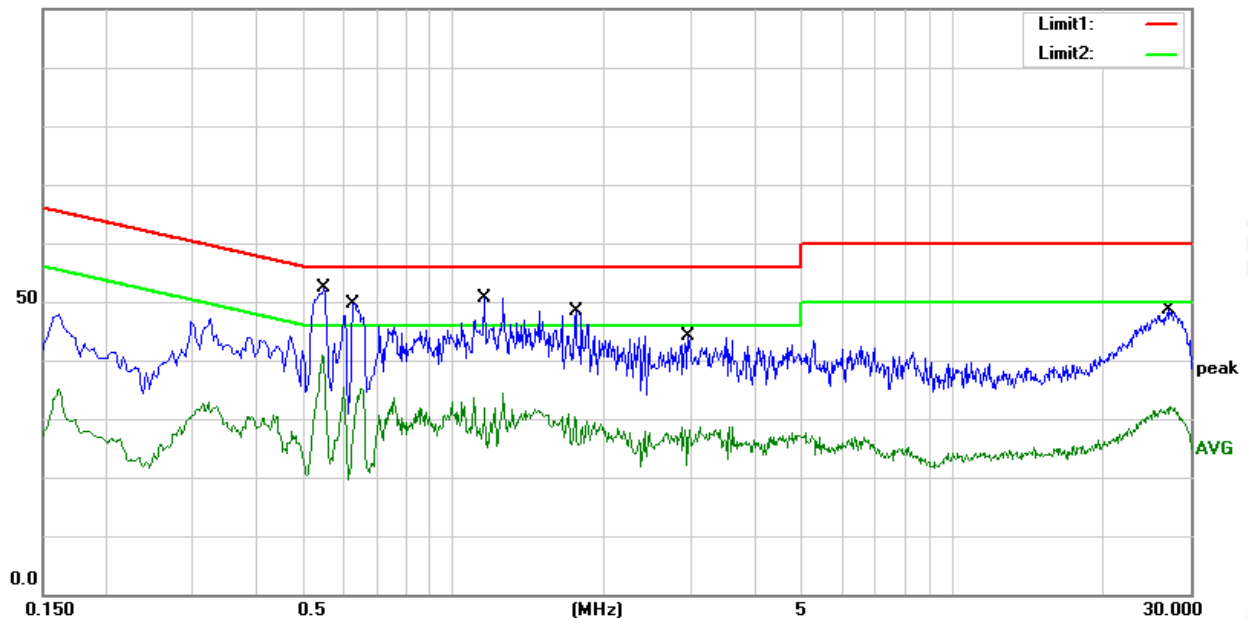
Temperature:	24.7°C	Relative Humidity:	57.9%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode :	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.5500	32.93	19.36	52.29	56.00	-3.71	QP
2	0.5500	21.47	19.36	40.83	46.00	-5.17	AVG
3	0.6300	30.35	19.38	49.73	56.00	-6.27	QP
4	0.6300	15.68	19.38	35.06	46.00	-10.94	AVG
5	1.1500	31.27	19.39	50.66	56.00	-5.34	QP
6	1.1500	14.98	19.39	34.37	46.00	-11.63	AVG
7	1.7540	28.96	19.38	48.34	56.00	-7.66	QP
8	1.7540	12.25	19.38	31.63	46.00	-14.37	AVG
9	2.9580	24.62	19.46	44.08	56.00	-11.92	QP
10	2.9580	9.19	19.46	28.65	46.00	-17.35	AVG
11	27.1060	28.89	19.67	48.56	60.00	-11.44	QP
12	27.1060	12.35	19.67	32.02	50.00	-17.98	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV



3.2 RADIATED EMISSION AND 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&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	74	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			

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/AV
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/AV
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:

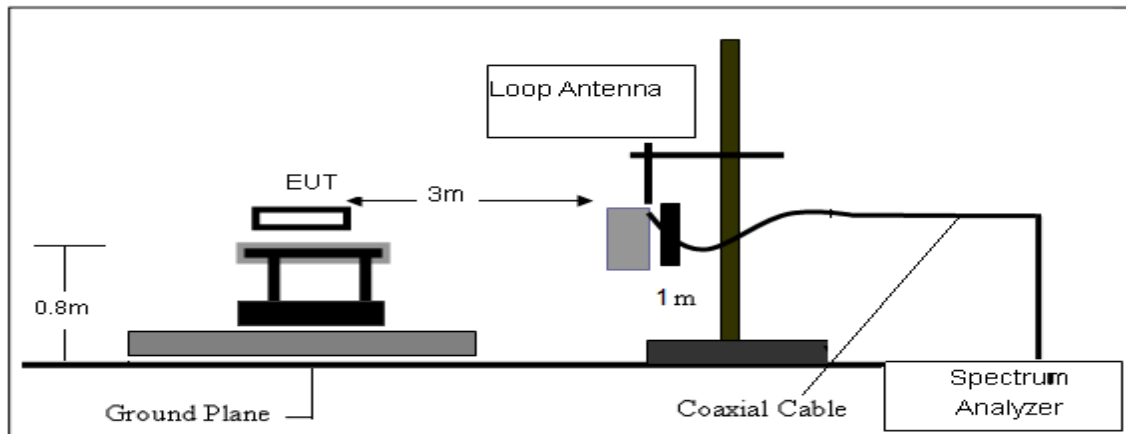
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

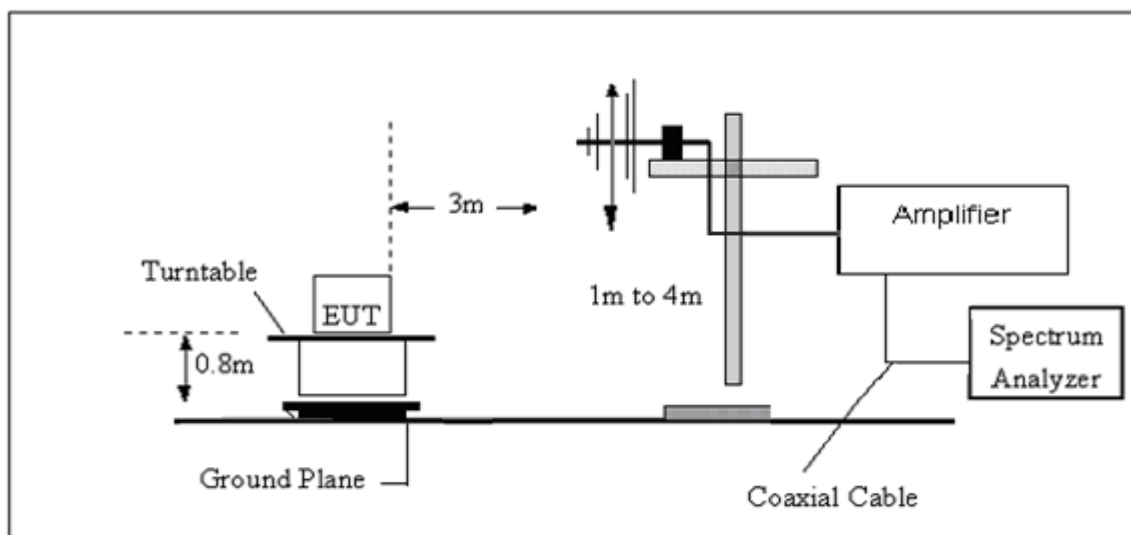
No deviation

3.2.4 TEST SETUP

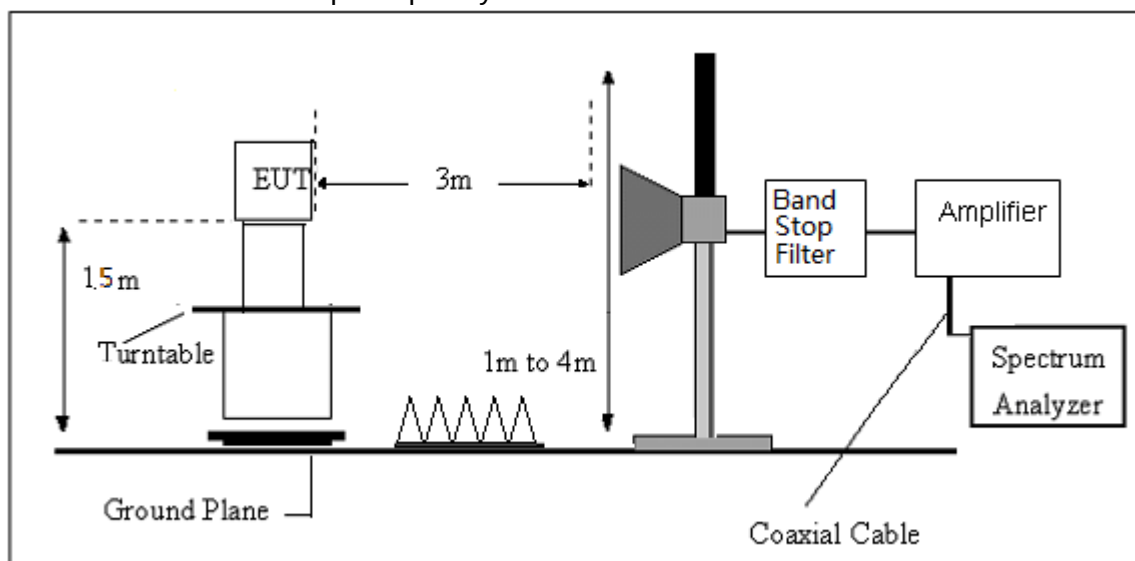
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 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.

3.2.6 FIELD STRENGTH CALCULATION

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

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

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

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

3.2.7 TEST RESULTS (Between 9KHz – 30 MHz)

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.8V	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.

3.2.8 TEST RESULTS (Between 30MHz – 1GHz)

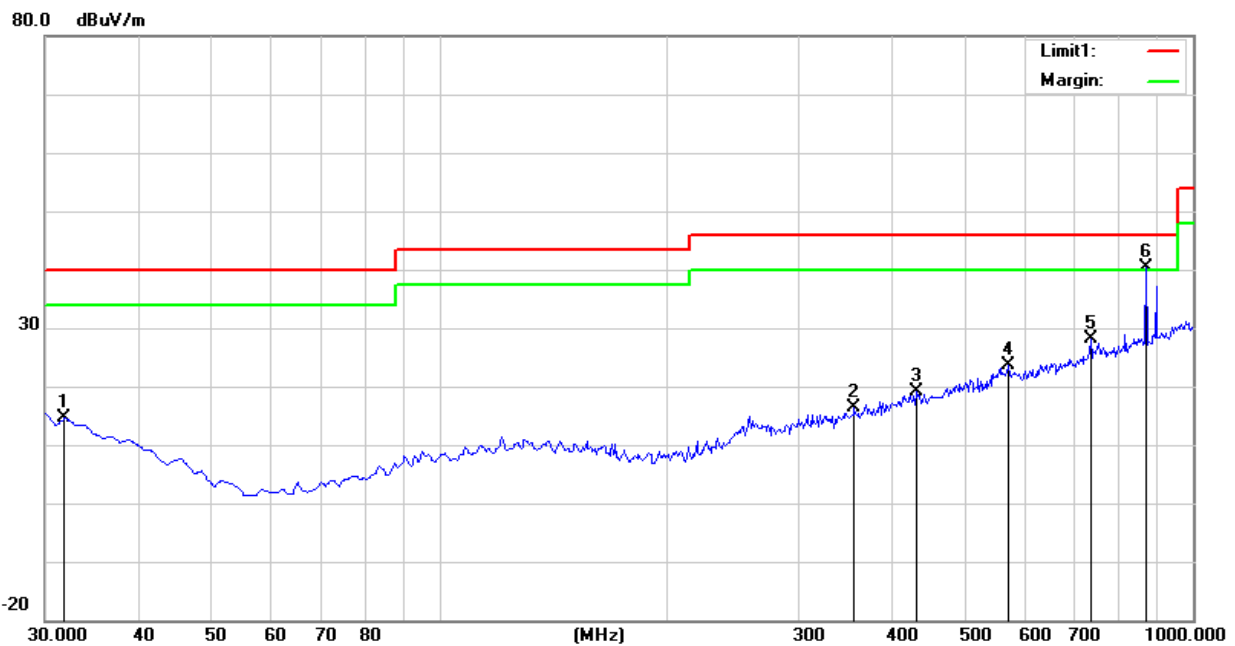
U-NII-1

Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.8V	Polarization:	Horizontal
Test Mode	(n20 worst mode) – Middle Channel		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9400	28.45	-13.86	14.59	40.00	-25.41	peak
2	355.9200	29.33	-12.95	16.38	46.00	-29.62	peak
3	430.6100	29.17	-10.14	19.03	46.00	-26.97	peak
4	570.2900	29.27	-5.61	23.66	46.00	-22.34	peak
5	733.2500	30.39	-2.35	28.04	46.00	-17.96	peak
6	868.0800	40.87	-0.51	40.36	46.00	-5.64	peak

Remark:

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



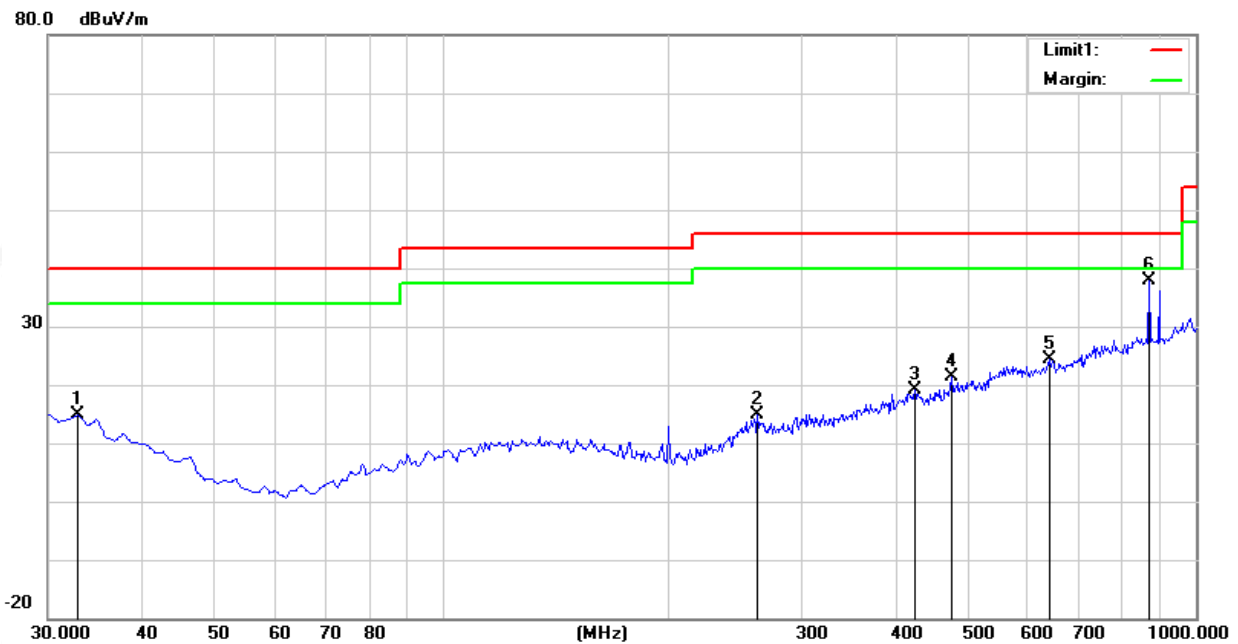
Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.8V	Polarization :	Vertical
Test Mode	(n20 worst mode) – Middle Channel		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	29.15	-14.33	14.82	40.00	-25.18	peak
2	262.8000	29.69	-14.76	14.93	46.00	-31.07	peak
3	423.8200	29.23	-10.11	19.12	46.00	-26.88	peak
4	475.2300	30.20	-8.81	21.39	46.00	-24.61	peak
5	640.1300	29.31	-4.84	24.47	46.00	-21.53	peak
6	868.0800	38.46	-0.51	37.95	46.00	-8.05	peak

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain



U-NII-3

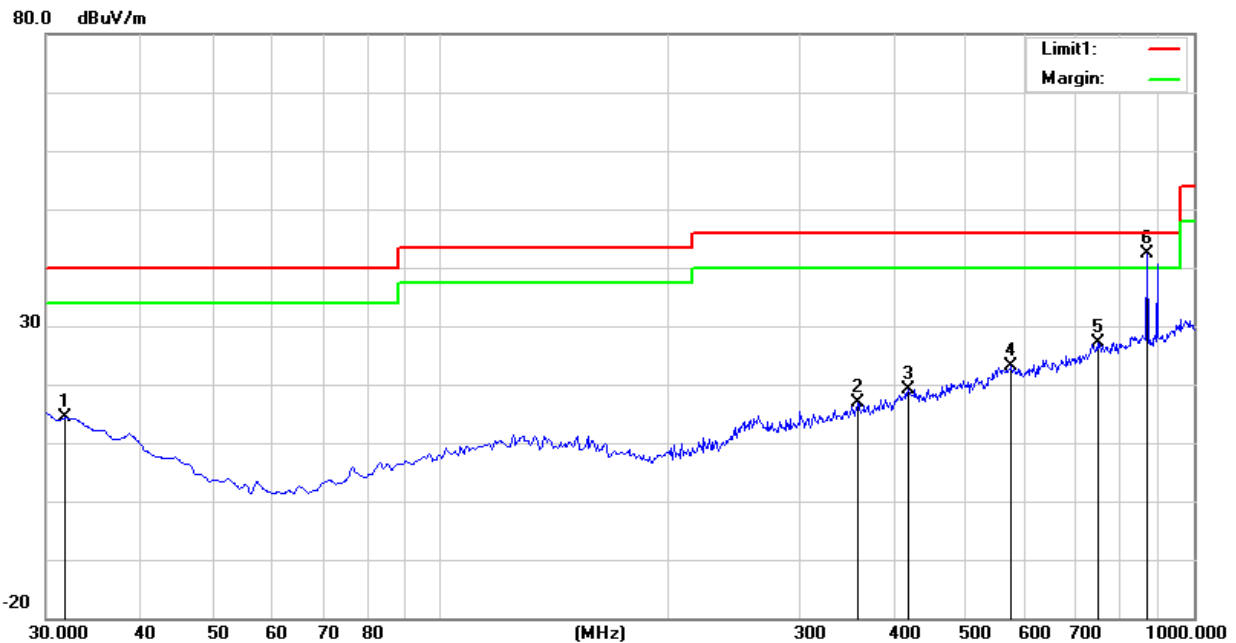
Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.8V	Polarization :	Horizontal
Test Mode	(n20 worst mode) – Low Channel		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9400	28.12	-13.86	14.26	40.00	-25.74	peak
2	358.8300	29.78	-12.90	16.88	46.00	-29.12	peak
3	418.0000	29.29	-10.18	19.11	46.00	-26.89	peak
4	574.1700	28.68	-5.67	23.01	46.00	-22.99	peak
5	745.8600	29.20	-2.14	27.06	46.00	-18.94	peak
6	868.0800	42.85	-0.51	42.34	46.00	-3.66	peak

Remark:

1.Margin = Result (Result =Reading + Factor)–Limit

2.Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



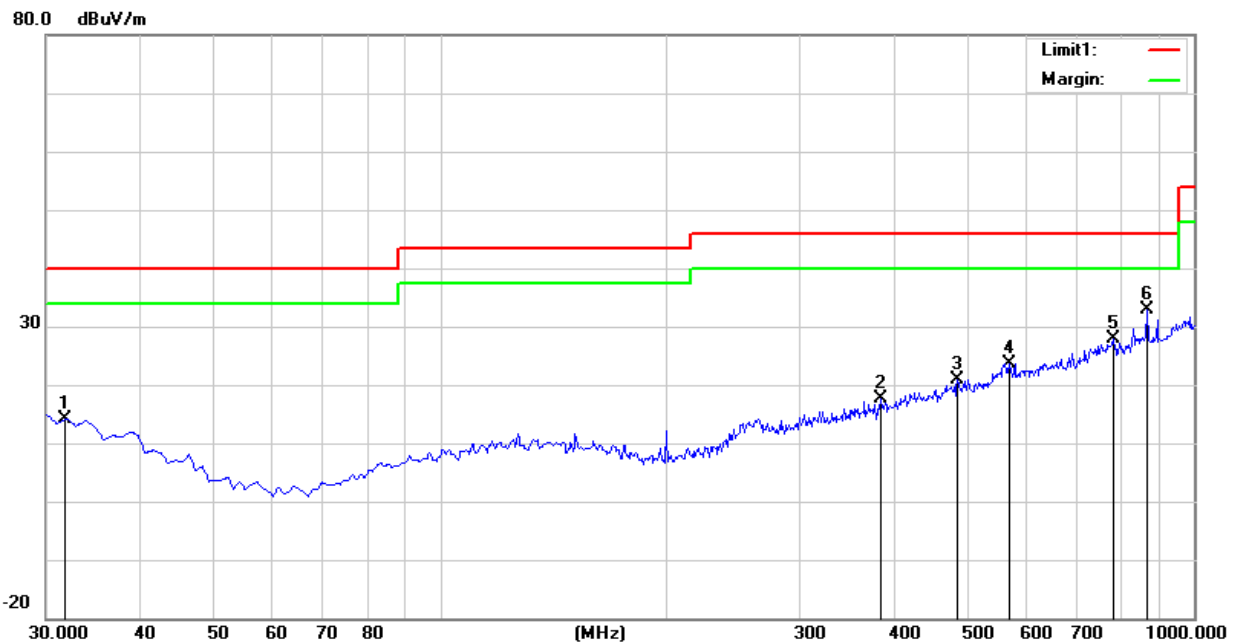
Temperature	23.4°C	Relative Humidity:	60%
Test Voltage	DC 3.8V	Polarization:	Vertical
Test Mode	(n20 worst mode) – Low Channel		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9400	28.09	-13.86	14.23	40.00	-25.77	peak
2	384.0500	29.52	-11.99	17.53	46.00	-28.47	peak
3	485.9000	29.36	-8.40	20.96	46.00	-25.04	peak
4	570.2900	29.33	-5.61	23.72	46.00	-22.28	peak
5	783.6900	30.01	-2.12	27.89	46.00	-18.11	peak
6	868.0800	33.30	-0.51	32.79	46.00	-13.21	peak

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

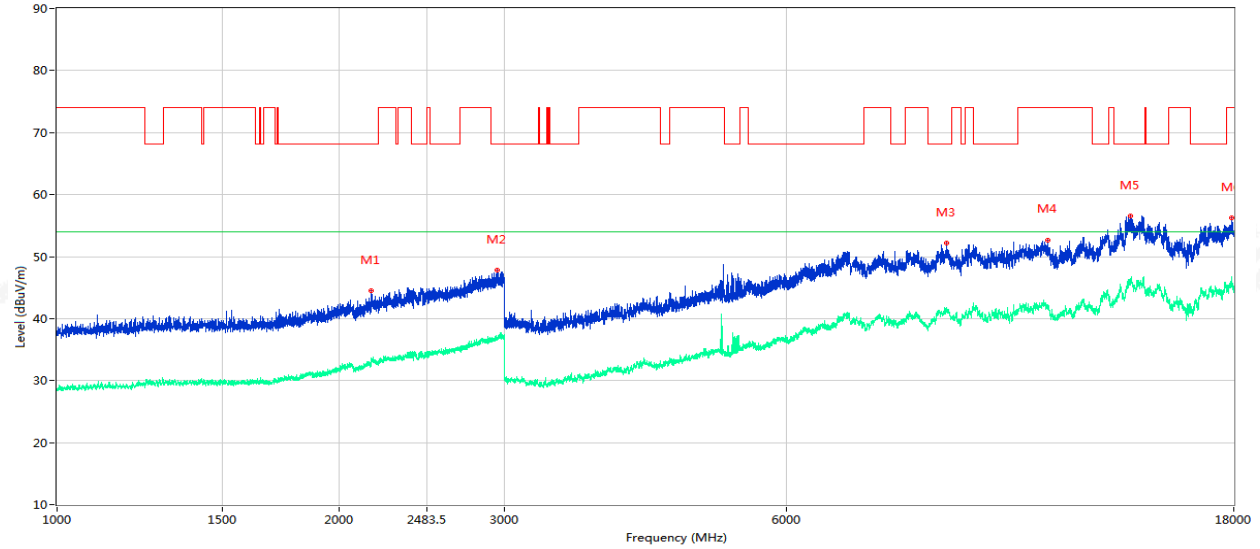
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain



3.2.8 TEST RESULTS (Above 1000 MHz)

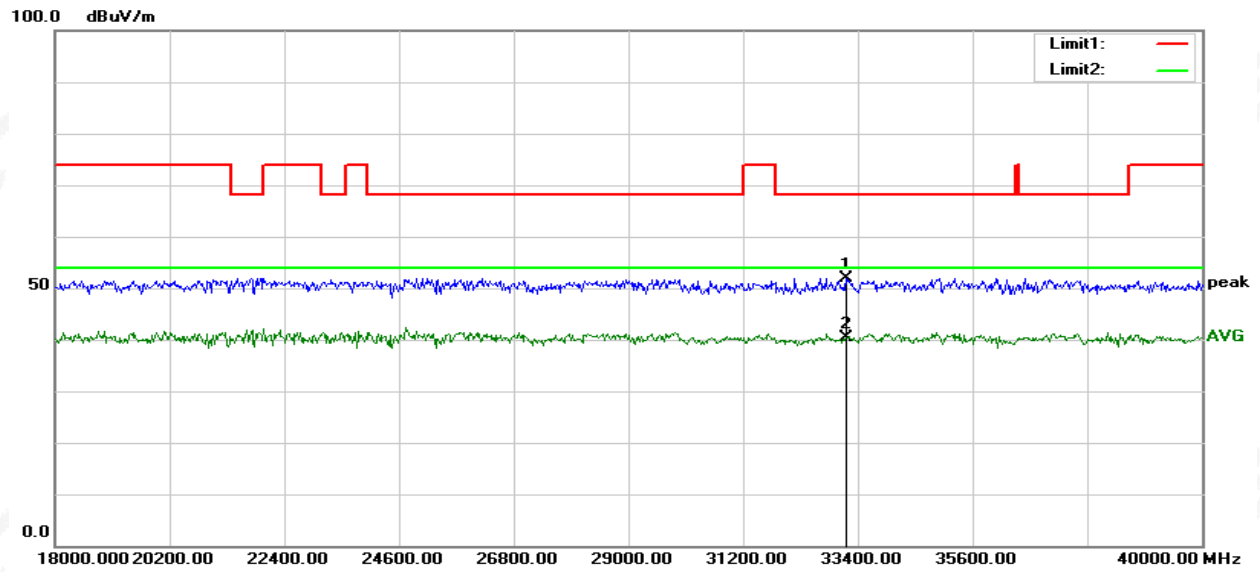
U-NII-1
802.11n20
Low Channel
Horizontal

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2164.000	44.45	1.76	68.2	-23.75	Peak	211.90	Horizontal	Pass
1**	2164.000	33.73	1.76	54.0	-20.27	AV	211.90	Horizontal	Pass
2	2945.500	47.75	5.19	68.2	-20.45	Peak	191.80	Horizontal	Pass
2**	2945.500	36.80	5.19	54.0	-17.20	AV	191.80	Horizontal	Pass
3	8894.750	52.14	1.58	68.2	-16.06	Peak	95.10	Horizontal	Pass
3**	8894.750	41.74	1.58	54.0	-12.26	AV	95.10	Horizontal	Pass
4	11386.250	52.71	2.00	74.0	-21.29	Peak	52.00	Horizontal	Pass
4**	11386.250	42.02	2.00	54.0	-11.98	AV	52.00	Horizontal	Pass
5	13957.500	56.58	7.92	68.2	-11.62	Peak	135.20	Horizontal	Pass
5**	13957.500	46.50	7.92	54.0	-7.50	AV	135.20	Horizontal	Pass
6	17906.500	56.29	7.19	74.0	-17.71	Peak	87.30	Horizontal	Pass
6**	17906.500	46.72	7.19	54.0	-7.28	AV	87.30	Horizontal	Pass

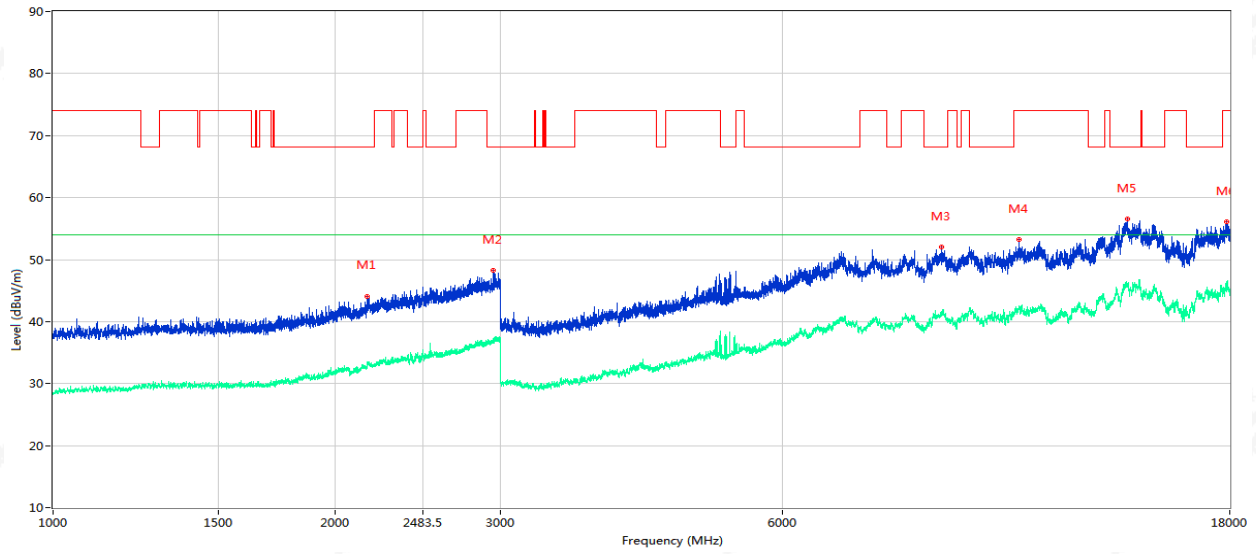
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/ m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33180.000	42.92	9.07	51.99	68.20	-16.21	peak
2	33180.000	31.25	9.07	40.32	54.00	-13.68	AVG

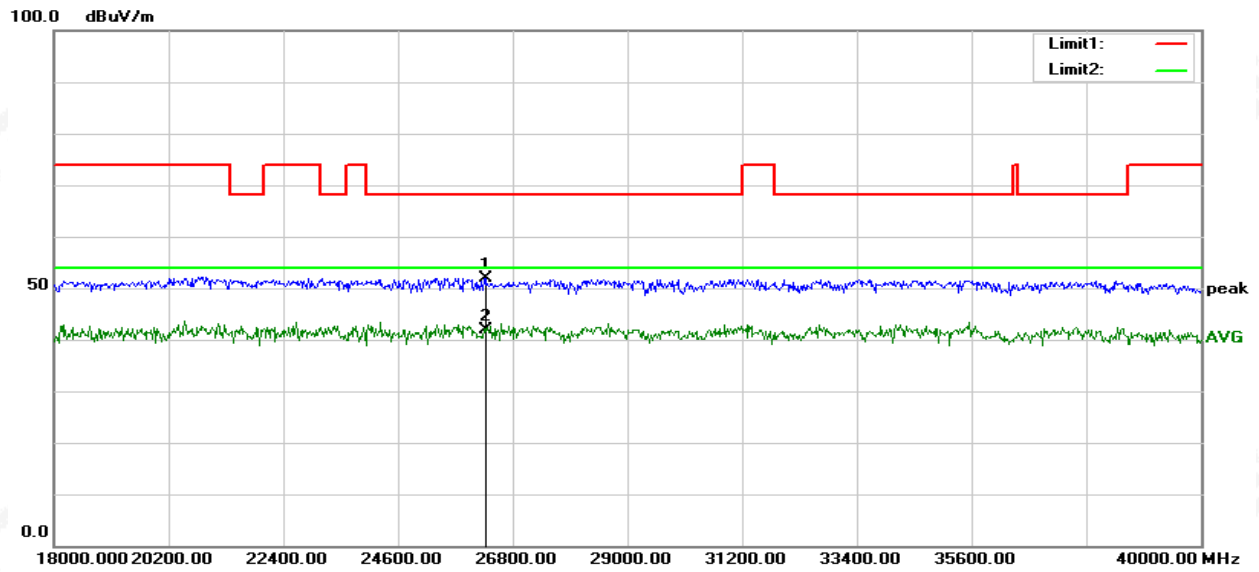
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2163.500	44.12	1.77	68.2	-24.08	Peak	110.70	Vertical	Pass
1**	2163.500	33.41	1.77	54.0	-20.59	AV	110.70	Vertical	Pass
2	2950.500	48.30	5.22	68.2	-19.90	Peak	245.00	Vertical	Pass
2**	2950.500	36.63	5.22	54.0	-17.37	AV	245.00	Vertical	Pass
3	8878.250	52.07	1.33	68.2	-16.13	Peak	78.00	Vertical	Pass
3**	8878.250	41.57	1.33	54.0	-12.43	AV	78.00	Vertical	Pass
4	10718.000	53.22	1.31	74.0	-20.78	Peak	209.00	Vertical	Pass
4**	10718.000	42.19	1.31	54.0	-11.81	AV	209.00	Vertical	Pass
5	14012.500	56.49	8.25	68.2	-11.71	Peak	50.10	Vertical	Pass
5**	14012.500	46.09	8.25	54.0	-7.91	AV	50.10	Vertical	Pass
6	17881.750	56.06	7.08	74.0	-17.94	Peak	274.40	Vertical	Pass
6**	17881.750	45.66	7.08	54.0	-8.34	AV	274.40	Vertical	Pass

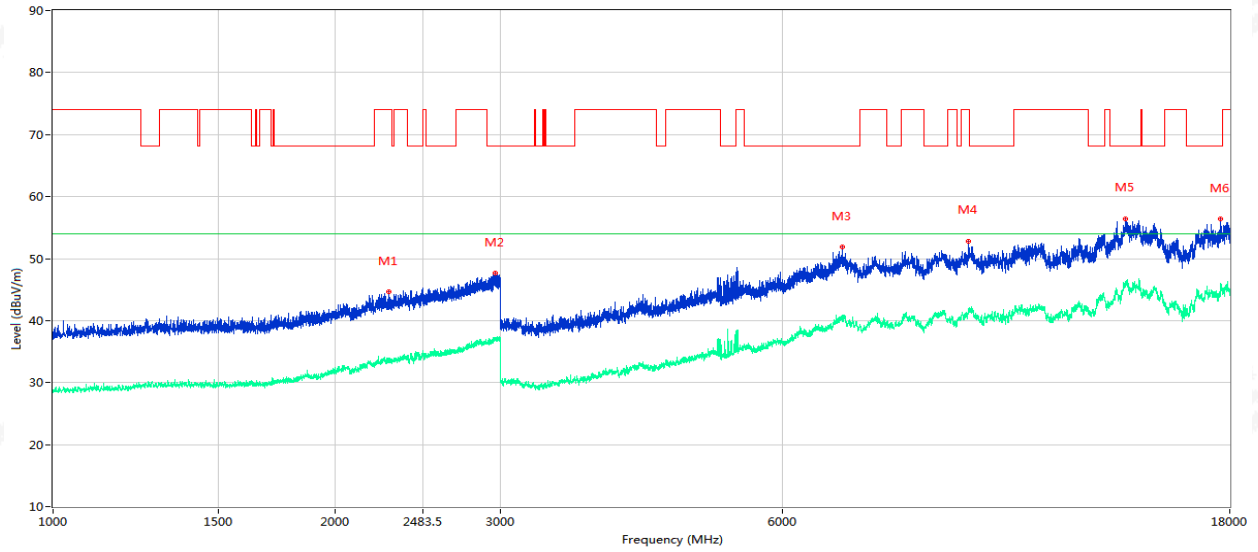
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26272.000	46.05	5.94	51.99	68.20	-16.21	peak
2	26272.000	35.88	5.94	41.82	54.00	-12.18	AVG

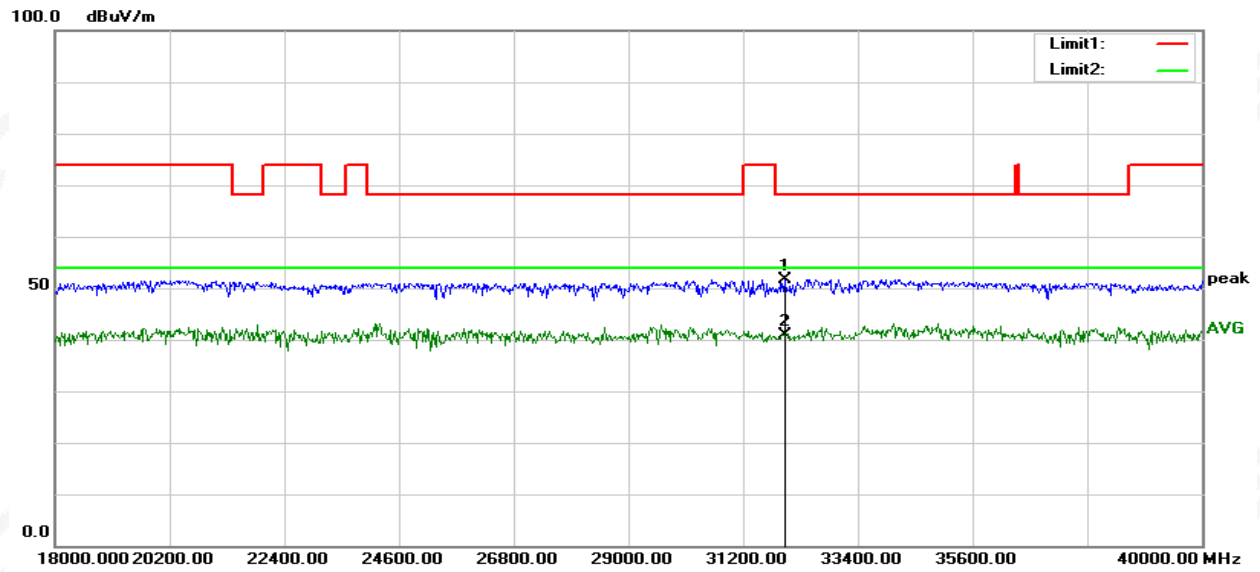
Mid Channel Horizontal 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2284.000	44.60	2.21	74.0	-29.40	Peak	234.70	Horizontal	Pass
1**	2284.000	33.38	2.21	54.0	-20.62	AV	234.70	Horizontal	Pass
2	2966.000	47.67	5.29	68.2	-20.53	Peak	89.20	Horizontal	Pass
2**	2966.000	36.81	5.29	54.0	-17.19	AV	89.20	Horizontal	Pass
3	6955.000	51.81	0.96	68.2	-16.39	Peak	155.80	Horizontal	Pass
3**	6955.000	40.29	0.96	54.0	-13.71	AV	155.80	Horizontal	Pass
4	9483.250	52.86	1.45	74.0	-21.14	Peak	335.50	Horizontal	Pass
4**	9483.250	41.99	1.45	54.0	-12.01	AV	335.50	Horizontal	Pass
5	13943.750	56.48	7.75	68.2	-11.72	Peak	129.30	Horizontal	Pass
5**	13943.750	45.85	7.75	54.0	-8.15	AV	129.30	Horizontal	Pass
6	17604.000	56.34	6.58	68.2	-11.86	Peak	292.70	Horizontal	Pass
6**	17604.000	45.32	6.58	54.0	-8.68	AV	292.70	Horizontal	Pass

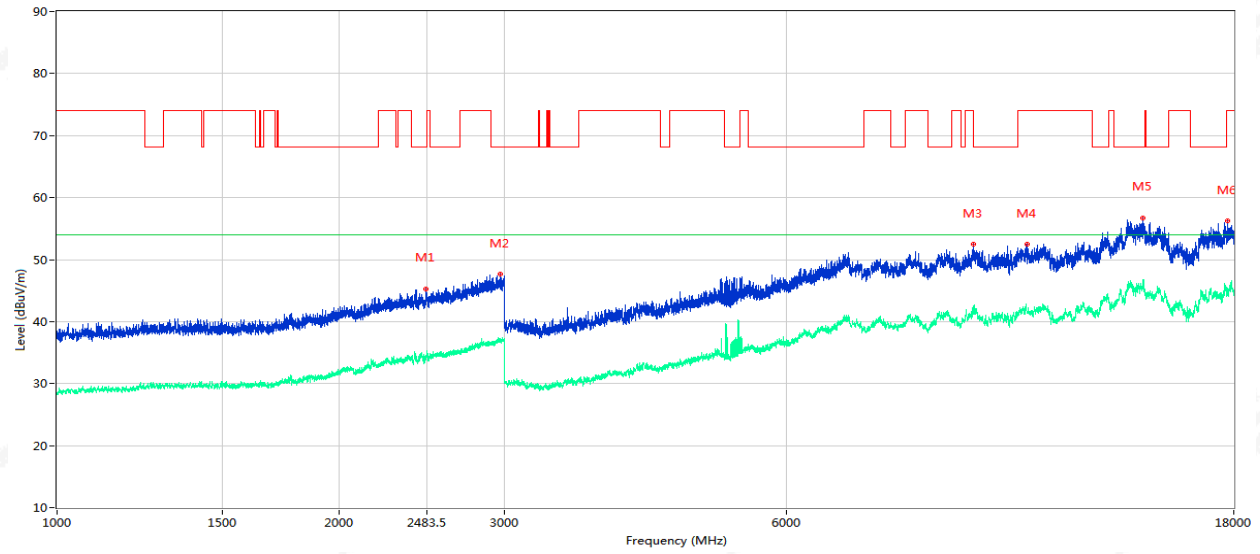
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31992.000	42.50	9.24	51.74	68.20	-16.46	peak
2	31992.000	31.67	9.24	40.91	54.00	-13.09	AVG

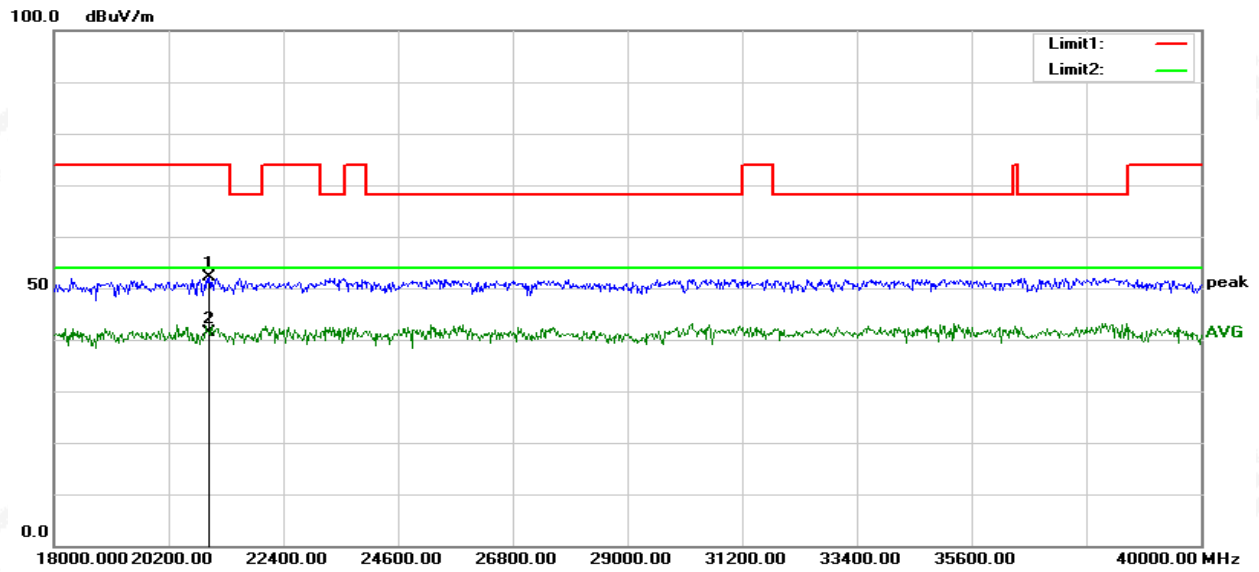
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2472.000	45.32	3.20	68.2	-22.88	Peak	304.50	Vertical	Pass
1**	2472.000	34.35	3.20	54.0	-19.65	AV	304.50	Vertical	Pass
2	2966.500	47.69	5.30	68.2	-20.51	Peak	117.50	Vertical	Pass
2**	2966.500	37.00	5.30	54.0	-17.00	AV	117.50	Vertical	Pass
3	9491.500	52.52	1.50	74.0	-21.48	Peak	157.60	Vertical	Pass
3**	9491.500	42.61	1.50	54.0	-11.39	AV	157.60	Vertical	Pass
4	10833.500	52.51	1.95	74.0	-21.49	Peak	139.70	Vertical	Pass
4**	10833.500	41.33	1.95	54.0	-12.67	AV	139.70	Vertical	Pass
5	14400.250	56.76	6.99	68.2	-11.44	Peak	2.60	Vertical	Pass
5**	14400.250	46.54	6.99	54.0	-7.46	AV	2.60	Vertical	Pass
6	17716.750	56.29	6.01	74.0	-17.71	Peak	218.90	Vertical	Pass
6**	17716.750	45.41	6.01	54.0	-8.59	AV	218.90	Vertical	Pass

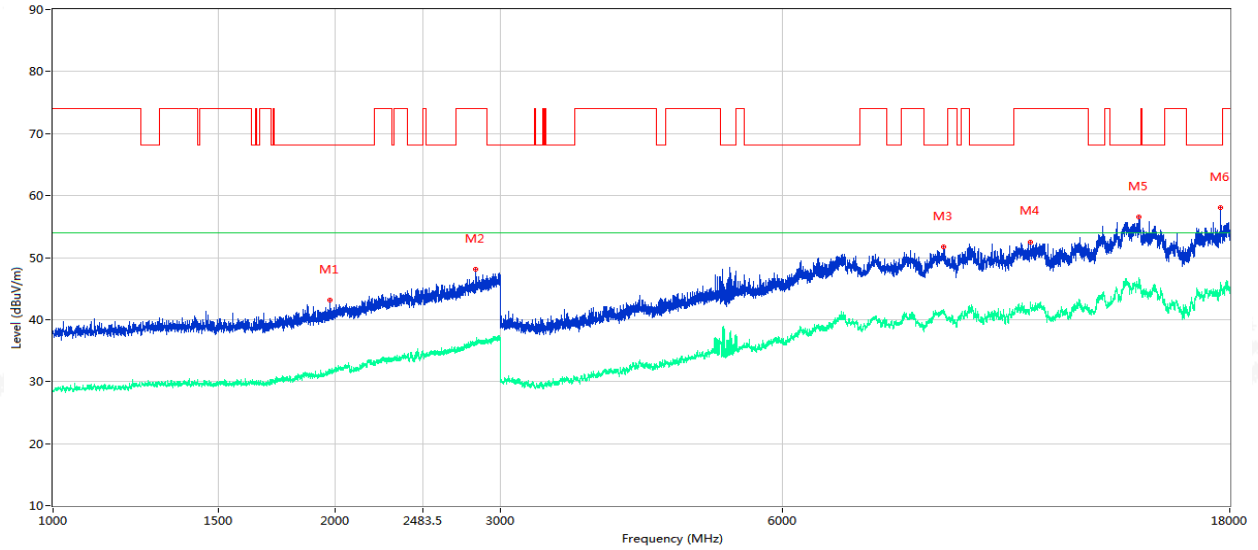
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20970.000	49.49	2.63	52.12	74.00	-21.88	peak
2	20970.000	38.79	2.63	41.42	54.00	-12.58	AVG

High Channel Horizontal 1GHz-18GHz

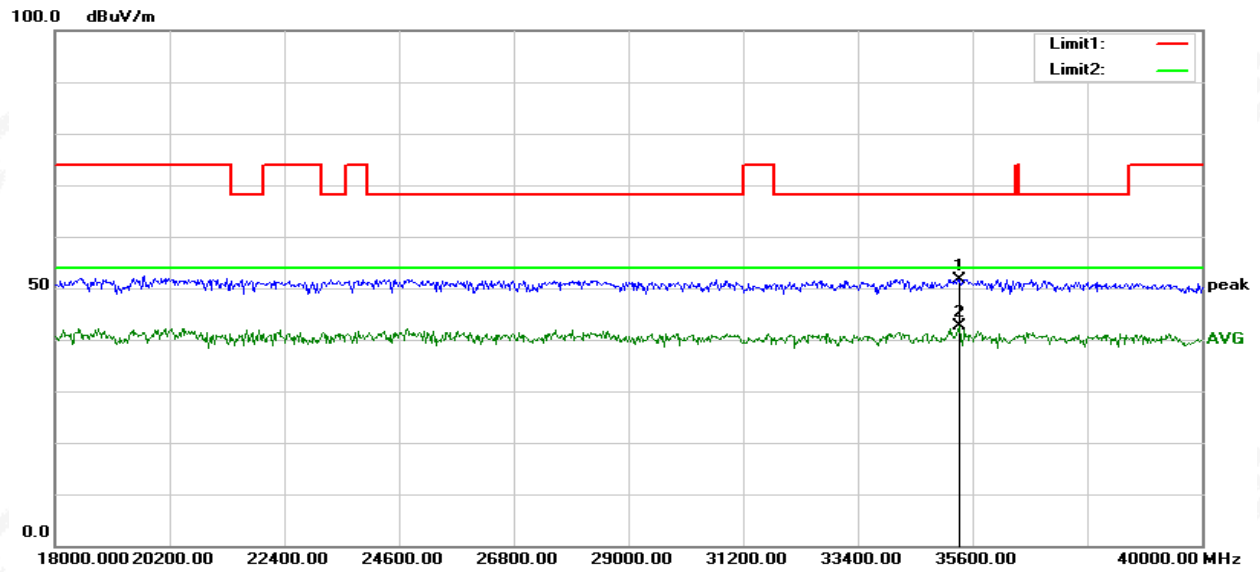
RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1973.500	43.18	0.18	68.2	-25.02	Peak	305.50	Horizontal	Pass
1**	1973.500	31.47	0.18	54.0	-22.53	AV	305.50	Horizontal	Pass
2	2824.500	48.14	4.87	74.0	-25.86	Peak	93.20	Horizontal	Pass
2**	2824.500	36.19	4.87	54.0	-17.81	AV	93.20	Horizontal	Pass
3	8914.000	51.74	1.40	68.2	-16.46	Peak	189.30	Horizontal	Pass
3**	8914.000	41.64	1.40	54.0	-12.36	AV	189.30	Horizontal	Pass
4	11026.000	52.55	1.85	74.0	-21.45	Peak	278.60	Horizontal	Pass
4**	11026.000	42.81	1.85	54.0	-11.19	AV	278.60	Horizontal	Pass
5	14405.750	56.59	6.95	68.2	-11.61	Peak	0.80	Horizontal	Pass
5**	14405.750	46.22	6.95	54.0	-7.78	AV	0.80	Horizontal	Pass
6	17612.249	58.00	6.53	68.2	-10.20	Peak	131.30	Horizontal	Pass
6**	17612.249	46.05	6.53	54.0	-7.95	AV	131.30	Horizontal	Pass



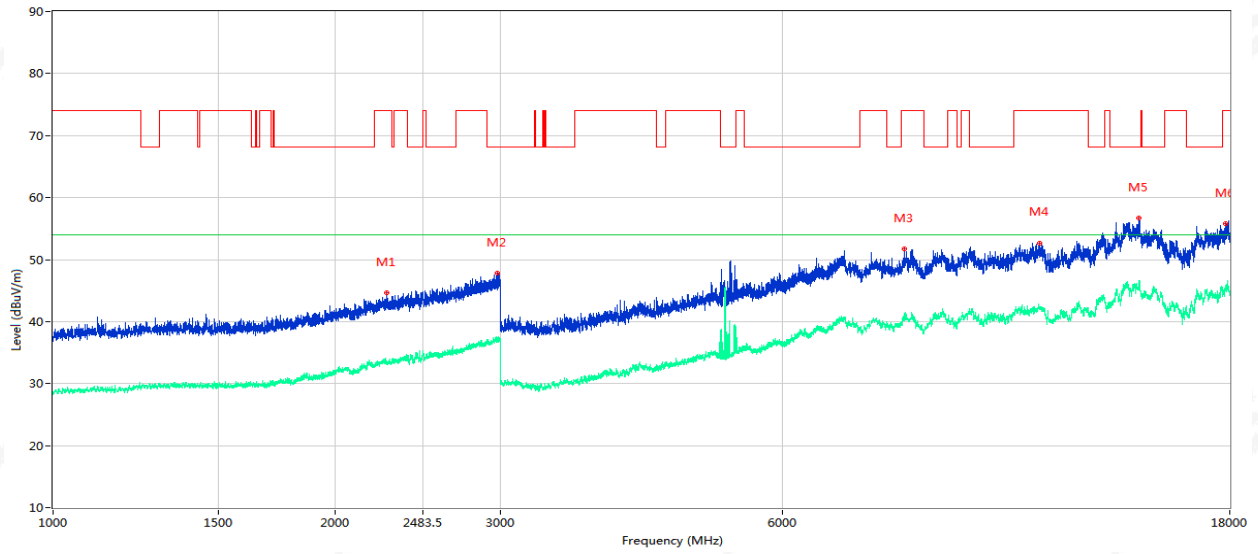
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35358.000	42.00	9.75	51.75	68.20	-16.45	peak
2	35358.000	32.83	9.75	42.58	54.00	-11.42	AVG

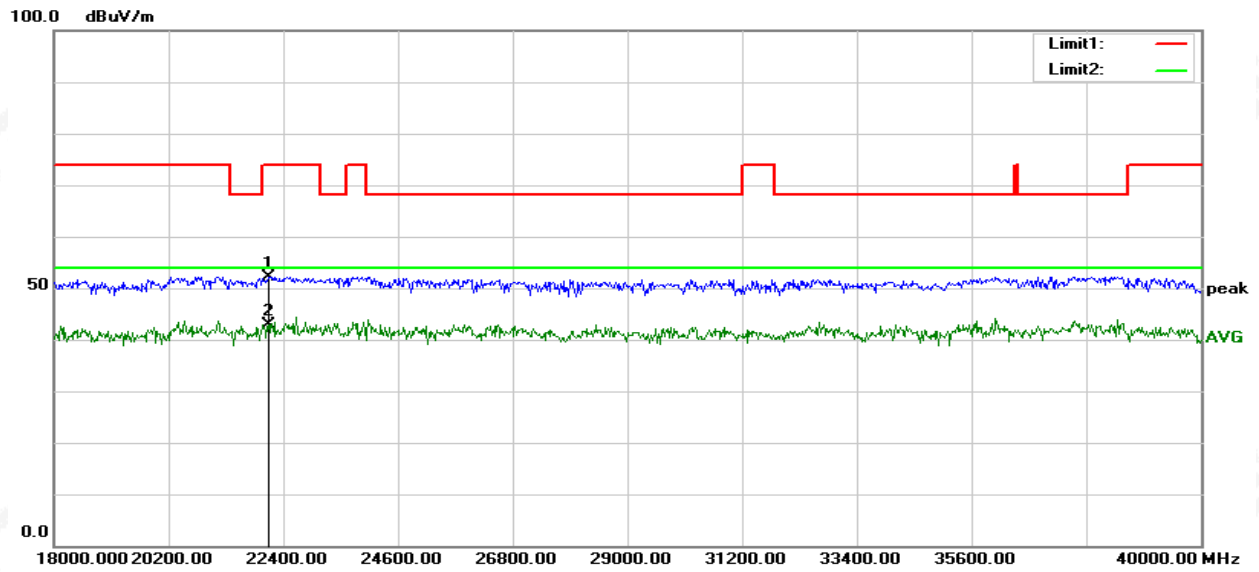
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2269.500	44.66	2.19	74.0	-29.34	Peak	346.20	Vertical	Pass
1**	2269.500	33.71	2.19	54.0	-20.29	AV	346.20	Vertical	Pass
2	2981.500	47.79	5.37	68.2	-20.41	Peak	263.20	Vertical	Pass
2**	2981.500	37.48	5.37	54.0	-16.52	AV	263.20	Vertical	Pass
3	8086.250	51.75	-0.08	74.0	-22.25	Peak	360.20	Vertical	Pass
3**	8086.250	41.29	-0.08	54.0	-12.71	AV	360.20	Vertical	Pass
4	11295.500	52.70	2.30	74.0	-21.30	Peak	88.50	Vertical	Pass
4**	11295.500	42.10	2.30	54.0	-11.90	AV	88.50	Vertical	Pass
5	14400.250	56.74	6.99	68.2	-11.46	Peak	309.50	Vertical	Pass
5**	14400.250	46.30	6.99	54.0	-7.70	AV	309.50	Vertical	Pass
6	17799.250	55.77	6.38	74.0	-18.23	Peak	340.00	Vertical	Pass
6**	17799.250	45.09	6.38	54.0	-8.91	AV	340.00	Vertical	Pass

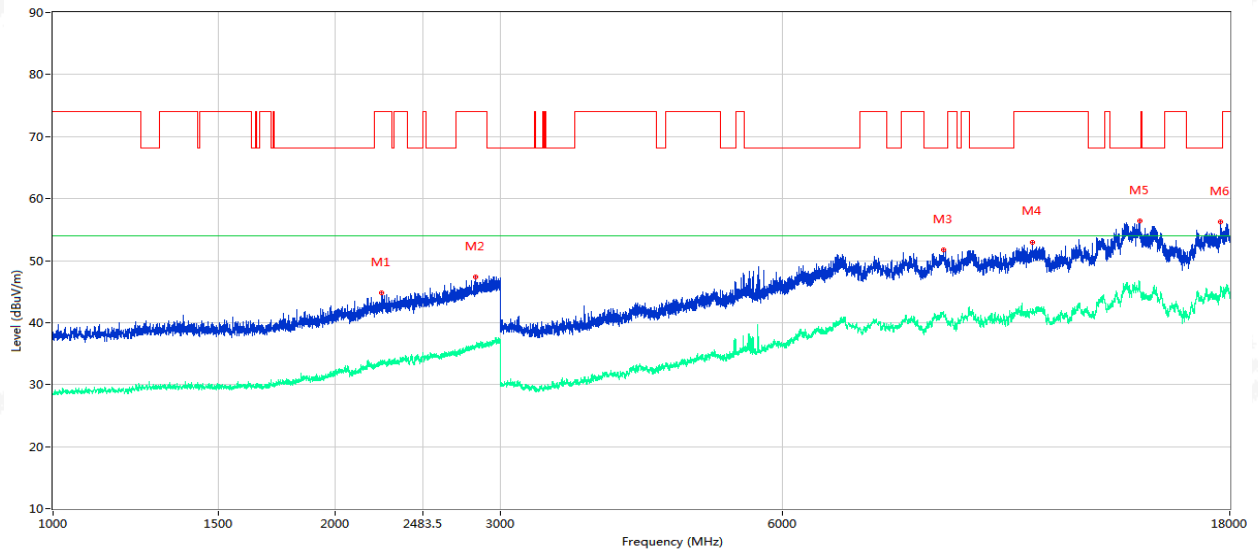
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	22114.000	48.72	3.52	52.24	74.00	-21.76	peak
2	22114.000	39.42	3.52	42.94	54.00	-11.06	AVG

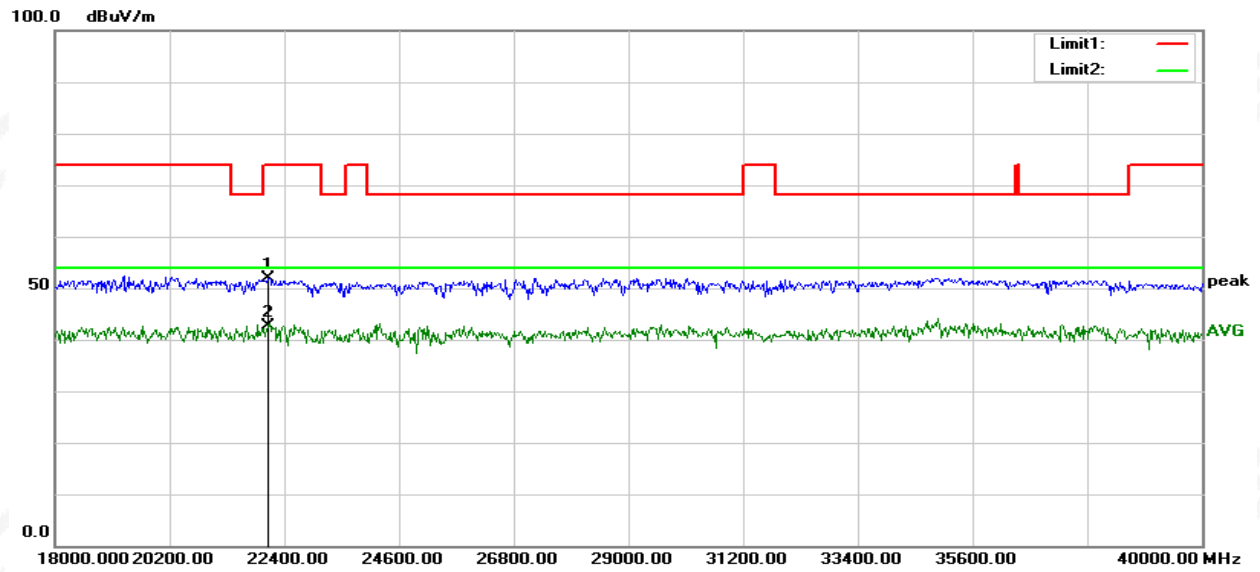
U-NII-3
802.11n20
Low Channel
Horizontal

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2241.500	44.82	2.05	74.0	-29.18	Peak	149.80	Horizontal	Pass
1**	2241.500	33.14	2.05	54.0	-20.86	AV	149.80	Horizontal	Pass
2	2826.500	47.39	4.88	74.0	-26.61	Peak	245.80	Horizontal	Pass
2**	2826.500	35.99	4.88	54.0	-18.01	AV	245.80	Horizontal	Pass
3	8903.000	51.70	1.61	68.2	-16.50	Peak	140.50	Horizontal	Pass
3**	8903.000	40.90	1.61	54.0	-13.10	AV	140.50	Horizontal	Pass
4	11086.500	53.01	2.04	74.0	-20.99	Peak	310.10	Horizontal	Pass
4**	11086.500	42.21	2.04	54.0	-11.79	AV	310.10	Horizontal	Pass
5	14419.500	56.42	6.85	68.2	-11.78	Peak	290.00	Horizontal	Pass
5**	14419.500	46.08	6.85	54.0	-7.92	AV	290.00	Horizontal	Pass
6	17606.750	56.21	6.56	68.2	-11.99	Peak	281.80	Horizontal	Pass
6**	17606.750	45.45	6.56	54.0	-8.55	AV	281.80	Horizontal	Pass

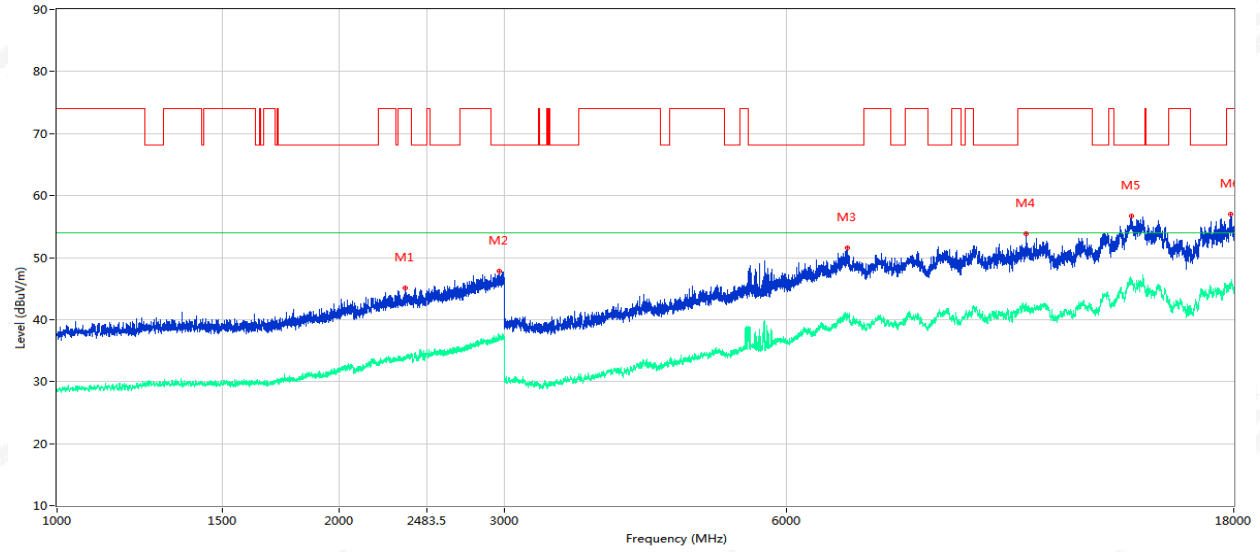
18GHz-40Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	22092.000	48.47	3.51	51.98	74.00	-22.02	peak
2	22092.000	39.19	3.51	42.70	54.00	-11.30	AVG

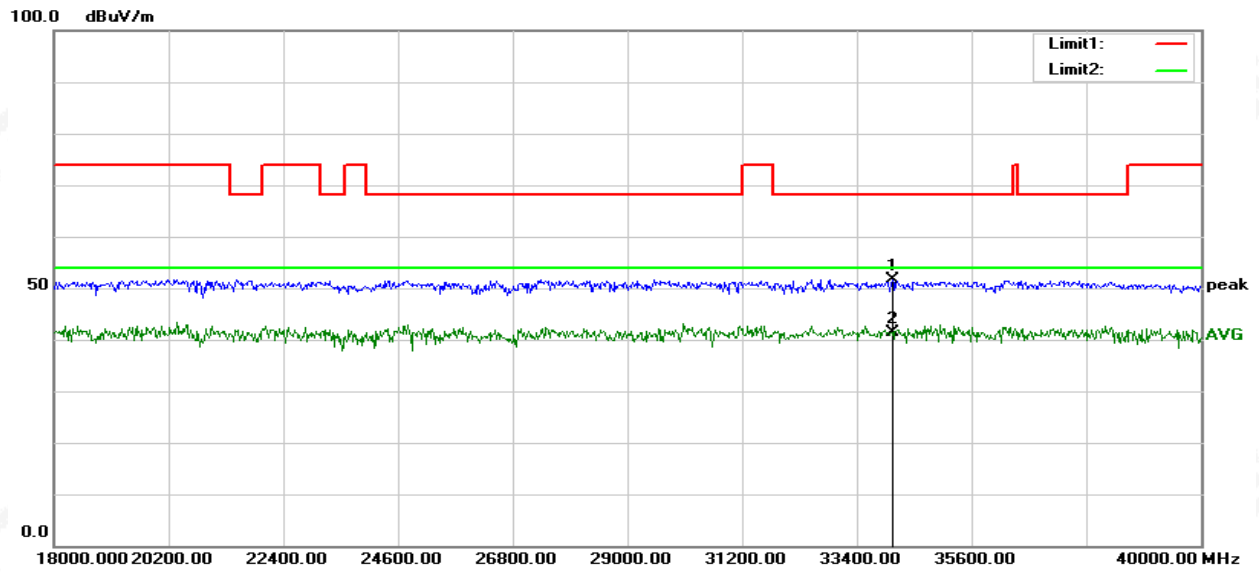
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2354.500	45.03	2.79	74.0	-28.97	Peak	130.00	Vertical	Pass
1**	2354.500	33.94	2.79	54.0	-20.06	AV	130.00	Vertical	Pass
2	2959.500	47.76	5.26	68.2	-20.44	Peak	106.20	Vertical	Pass
2**	2959.500	37.27	5.26	54.0	-16.73	AV	106.20	Vertical	Pass
3	6959.000	51.54	0.99	68.2	-16.66	Peak	358.00	Vertical	Pass
3**	6959.000	40.33	0.99	54.0	-13.67	AV	358.00	Vertical	Pass
4	10803.250	53.79	2.03	74.0	-20.21	Peak	157.30	Vertical	Pass
4**	10803.250	42.28	2.03	54.0	-11.72	AV	157.30	Vertical	Pass
5	14009.750	56.70	8.29	68.2	-11.50	Peak	0.50	Vertical	Pass
5**	14009.750	46.34	8.29	54.0	-7.66	AV	0.50	Vertical	Pass
6	17878.999	57.01	7.06	74.0	-16.99	Peak	187.00	Vertical	Pass
6**	17878.999	45.96	7.06	54.0	-8.04	AV	187.00	Vertical	Pass

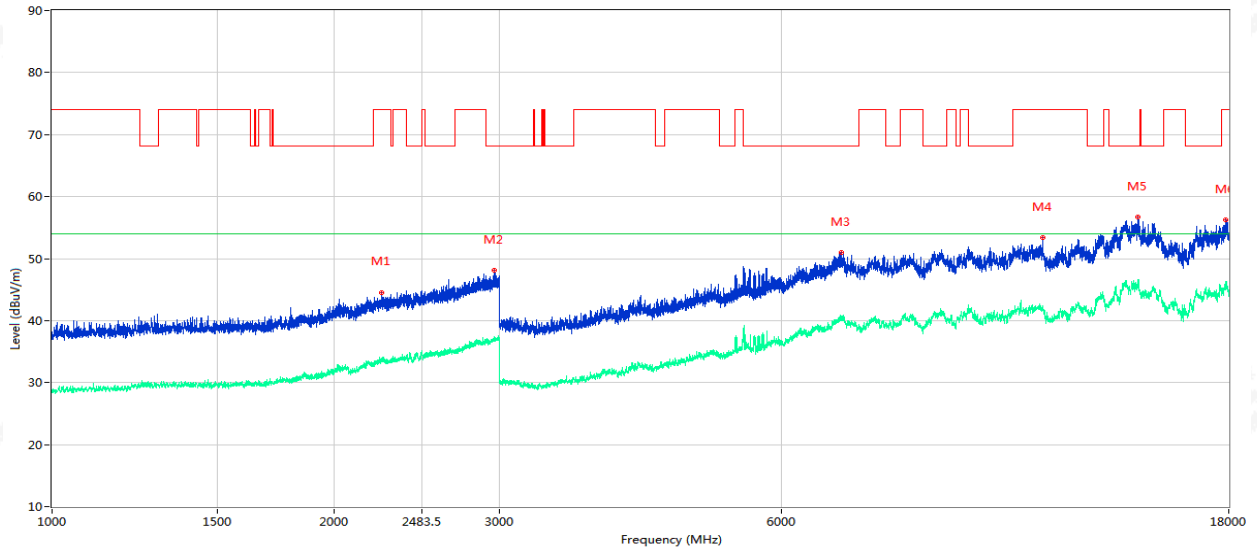
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34082.000	42.29	9.42	51.71	68.20	-16.49	peak
2	34082.000	31.89	9.42	41.31	54.00	-12.69	AVG

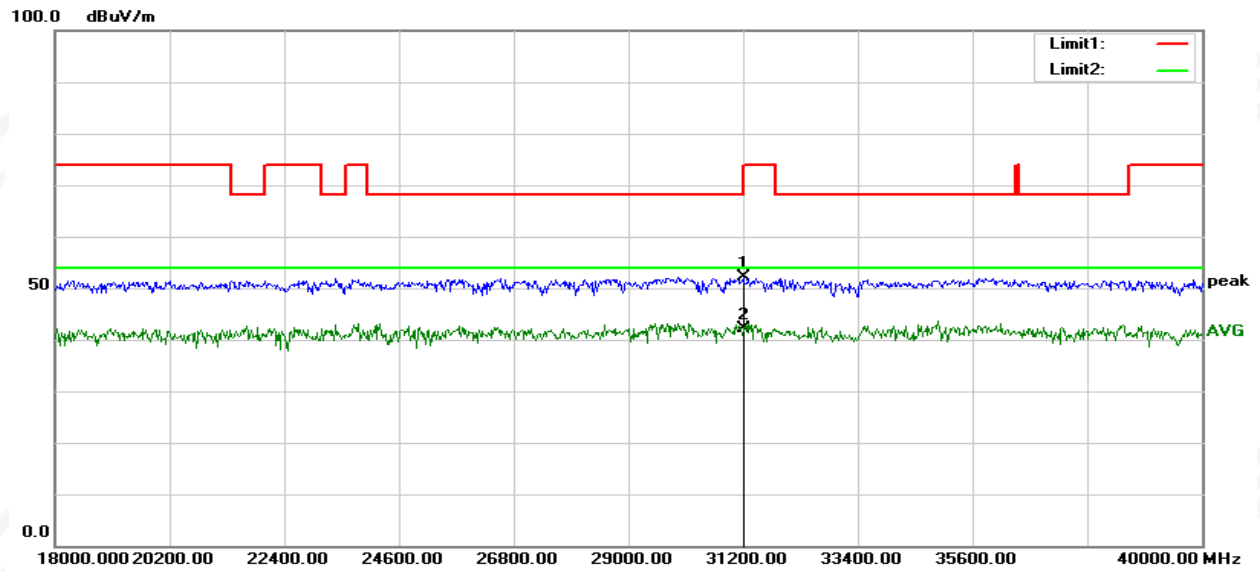
Mid Channel Horizontal 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2246.500	44.56	2.11	74.0	-29.44	Peak	124.80	Horizontal	Pass
1**	2246.500	33.92	2.11	54.0	-20.08	AV	124.80	Horizontal	Pass
2	2959.000	48.14	5.26	68.2	-20.06	Peak	82.80	Horizontal	Pass
2**	2959.000	36.86	5.26	54.0	-17.14	AV	82.80	Horizontal	Pass
3	6948.000	50.99	0.90	68.2	-17.21	Peak	357.00	Horizontal	Pass
3**	6948.000	40.39	0.90	54.0	-13.61	AV	357.00	Horizontal	Pass
4	11394.500	53.35	1.97	74.0	-20.65	Peak	82.50	Horizontal	Pass
4**	11394.500	42.46	1.97	54.0	-11.54	AV	82.50	Horizontal	Pass
5	14405.750	56.66	6.95	68.2	-11.54	Peak	0.80	Horizontal	Pass
5**	14405.750	46.25	6.95	54.0	-7.75	AV	0.80	Horizontal	Pass
6	17870.750	56.27	6.99	74.0	-17.73	Peak	294.10	Horizontal	Pass
6**	17870.750	45.77	6.99	54.0	-8.23	AV	294.10	Horizontal	Pass

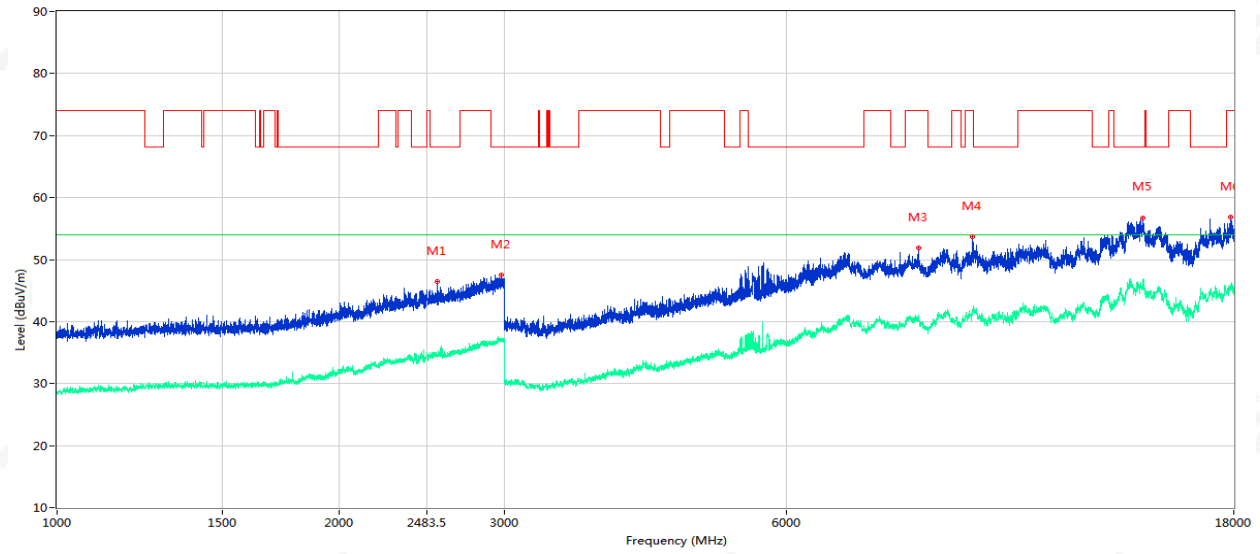
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31200.000	43.15	9.05	52.20	68.20	-16.00	peak
2	31200.000	32.99	9.05	42.04	54.00	-11.96	AVG

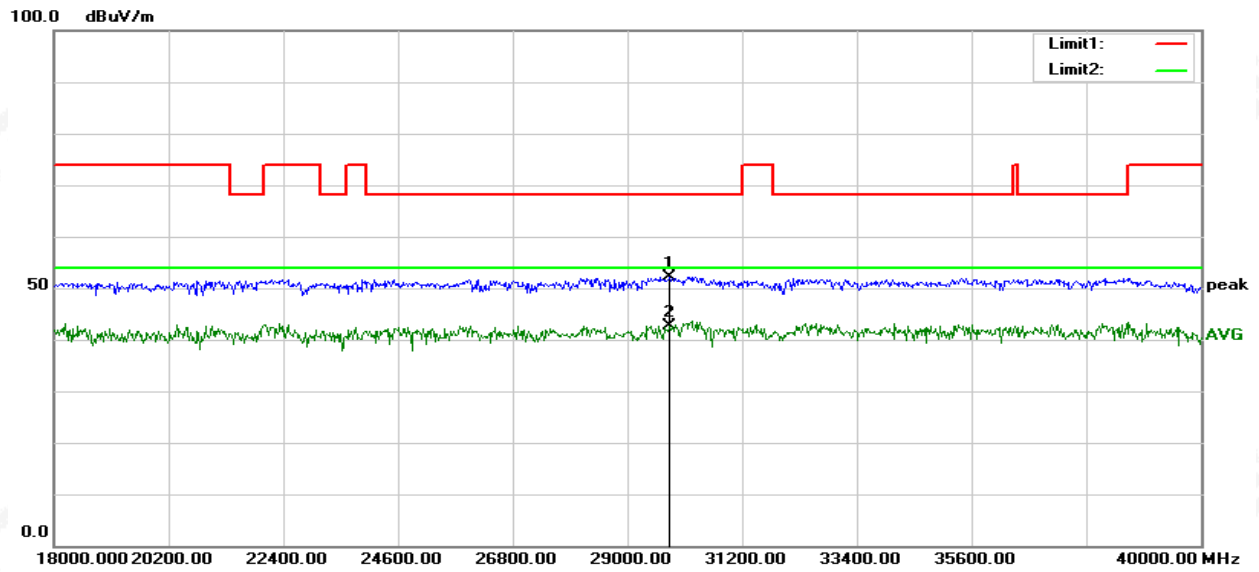
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2545.500	46.41	3.52	68.2	-21.79	Peak	359.70	Vertical	Pass
1**	2545.500	34.56	3.52	54.0	-19.44	AV	359.70	Vertical	Pass
2	2978.500	47.51	5.35	68.2	-20.69	Peak	265.10	Vertical	Pass
2**	2978.500	36.66	5.35	54.0	-17.34	AV	265.10	Vertical	Pass
3	8300.750	51.83	-0.26	74.0	-22.17	Peak	123.30	Vertical	Pass
3**	8300.750	40.46	-0.26	54.0	-13.54	AV	123.30	Vertical	Pass
4	9480.500	53.68	1.43	74.0	-20.32	Peak	115.20	Vertical	Pass
4**	9480.500	41.87	1.43	54.0	-12.13	AV	115.20	Vertical	Pass
5	14397.500	56.77	6.99	68.2	-11.43	Peak	169.90	Vertical	Pass
5**	14397.500	45.92	6.99	54.0	-8.08	AV	169.90	Vertical	Pass
6	17884.500	56.78	7.11	74.0	-17.22	Peak	228.30	Vertical	Pass
6**	17884.500	45.91	7.11	54.0	-8.09	AV	228.30	Vertical	Pass

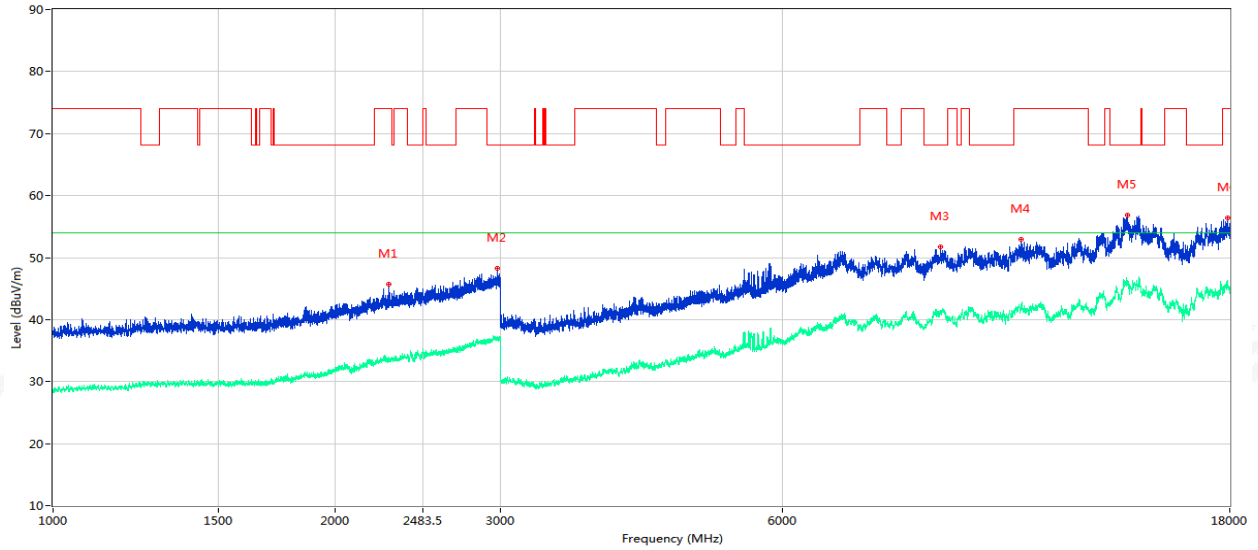
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	29814.000	43.12	9.08	52.20	68.20	-16.00	peak
2	29814.000	33.67	9.08	42.75	54.00	-11.25	AVG

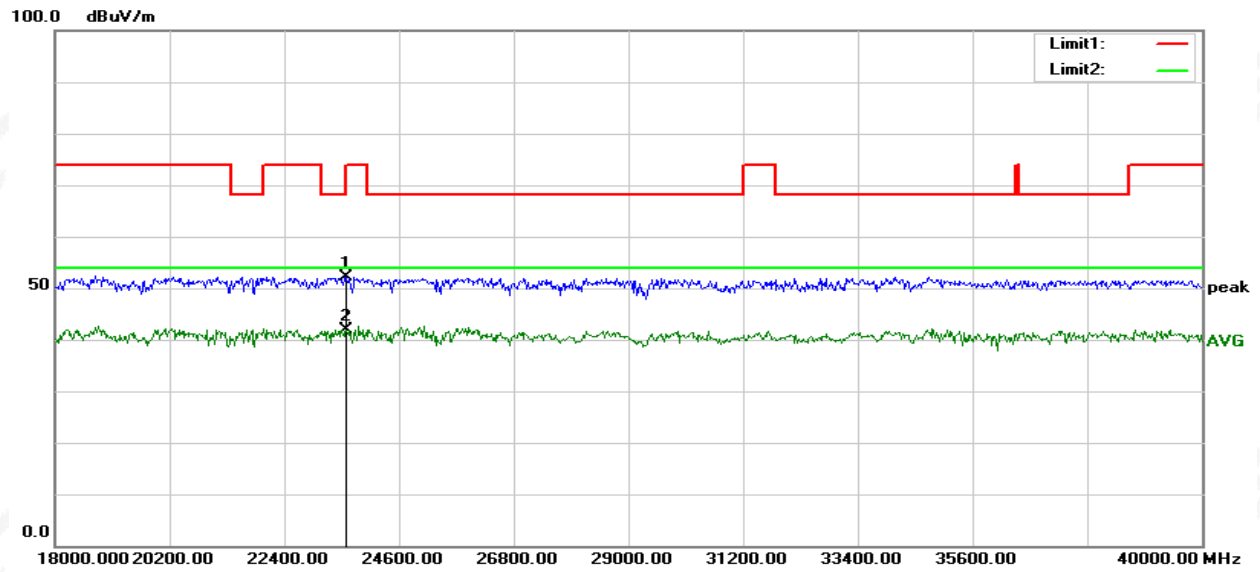
High Channel Horizontal 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2284.000	45.65	2.21	74.0	-28.35	Peak	348.10	Horizontal	Pass
1**	2284.000	33.97	2.21	54.0	-20.03	AV	348.10	Horizontal	Pass
2	2979.500	48.28	5.36	68.2	-19.92	Peak	353.40	Horizontal	Pass
2**	2979.500	36.76	5.36	54.0	-17.24	AV	353.40	Horizontal	Pass
3	8842.500	51.72	0.77	68.2	-16.48	Peak	67.20	Horizontal	Pass
3**	8842.500	41.55	0.77	54.0	-12.45	AV	67.20	Horizontal	Pass
4	10781.250	52.91	1.87	74.0	-21.09	Peak	223.10	Horizontal	Pass
4**	10781.250	41.78	1.87	54.0	-12.22	AV	223.10	Horizontal	Pass
5	14001.500	56.79	8.43	68.2	-11.41	Peak	326.90	Horizontal	Pass
5**	14001.500	45.77	8.43	54.0	-8.23	AV	326.90	Horizontal	Pass
6	17903.749	56.41	7.21	74.0	-17.59	Peak	136.00	Horizontal	Pass
6**	17903.749	46.23	7.21	54.0	-7.77	AV	136.00	Horizontal	Pass

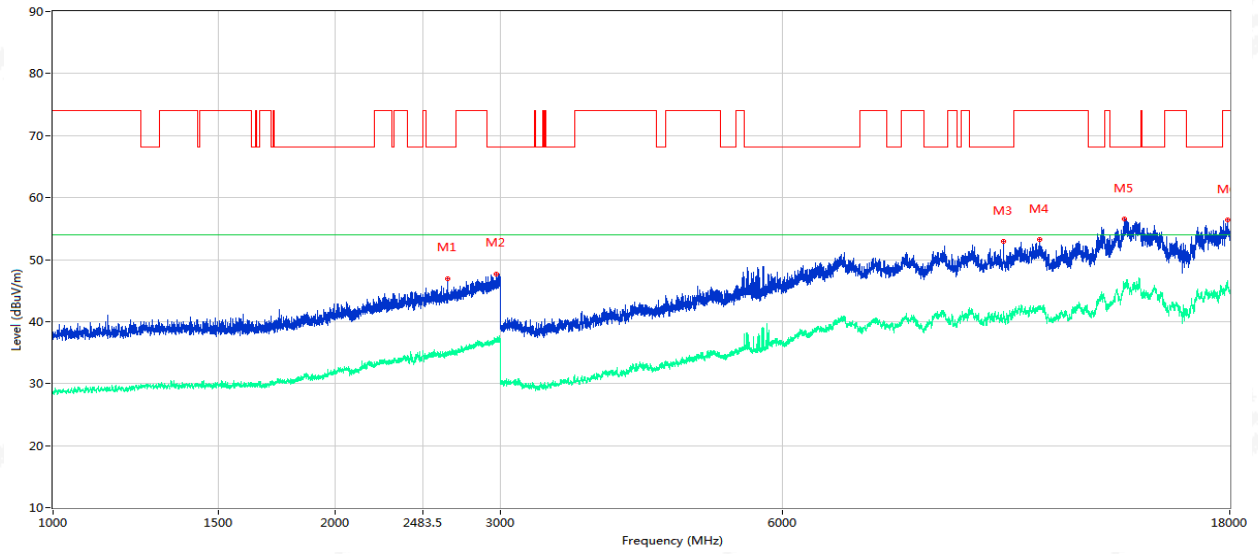
18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23588.000	48.01	4.22	52.23	68.20	-15.97	peak
2	23588.000	37.58	4.22	41.80	54.00	-12.20	AVG

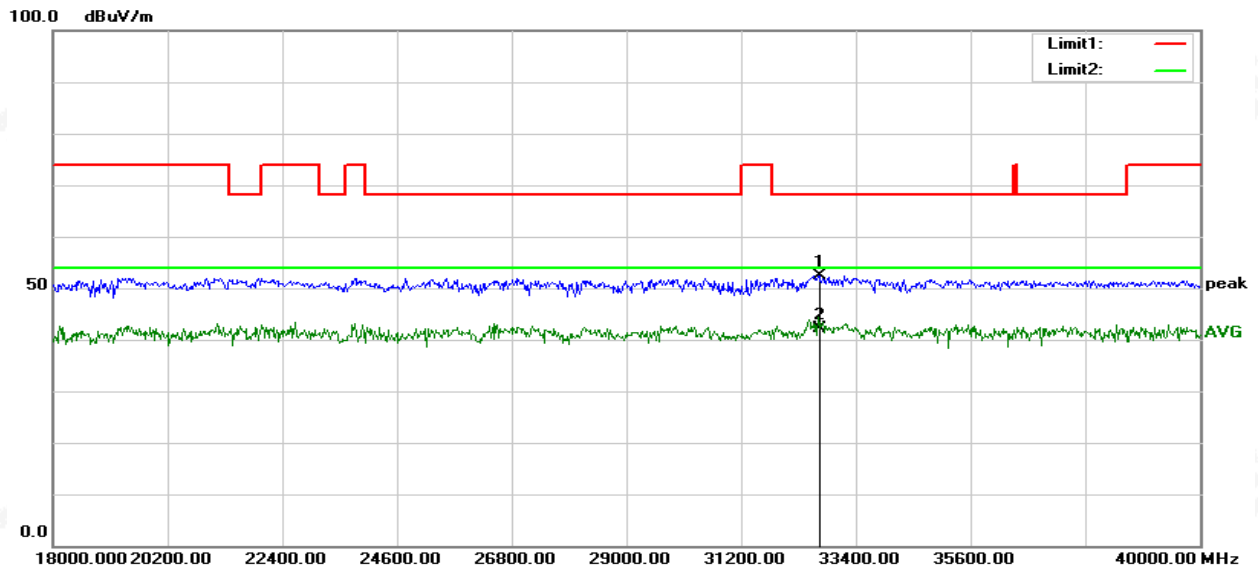
Vertical 1GHz-18GHz

RE_FCC Test Case_FCC 15C-IC-RSS 1GHz-18GHz -



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2633.500	46.97	3.80	68.2	-21.23	Peak	76.40	Vertical	Pass
1**	2633.500	34.61	3.80	54.0	-19.39	AV	76.40	Vertical	Pass
2	2972.000	47.70	5.32	68.2	-20.50	Peak	0.10	Vertical	Pass
2**	2972.000	37.00	5.32	54.0	-17.00	AV	0.10	Vertical	Pass
3	10330.250	52.90	0.45	68.2	-15.30	Peak	0.20	Vertical	Pass
3**	10330.250	41.43	0.45	54.0	-12.57	AV	0.20	Vertical	Pass
4	11298.250	53.27	2.29	74.0	-20.73	Peak	158.40	Vertical	Pass
4**	11298.250	42.28	2.29	54.0	-11.72	AV	158.40	Vertical	Pass
5	13880.500	56.52	6.91	68.2	-11.68	Peak	64.70	Vertical	Pass
5**	13880.500	45.73	6.91	54.0	-8.27	AV	64.70	Vertical	Pass
6	17906.500	56.37	7.19	74.0	-17.63	Peak	48.00	Vertical	Pass
6**	17906.500	46.20	7.19	54.0	-7.80	AV	48.00	Vertical	Pass

18GHz-40Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32696.000	43.31	9.12	52.43	68.20	-15.77	peak
2	32696.000	33.11	9.12	42.23	54.00	-11.77	AVG

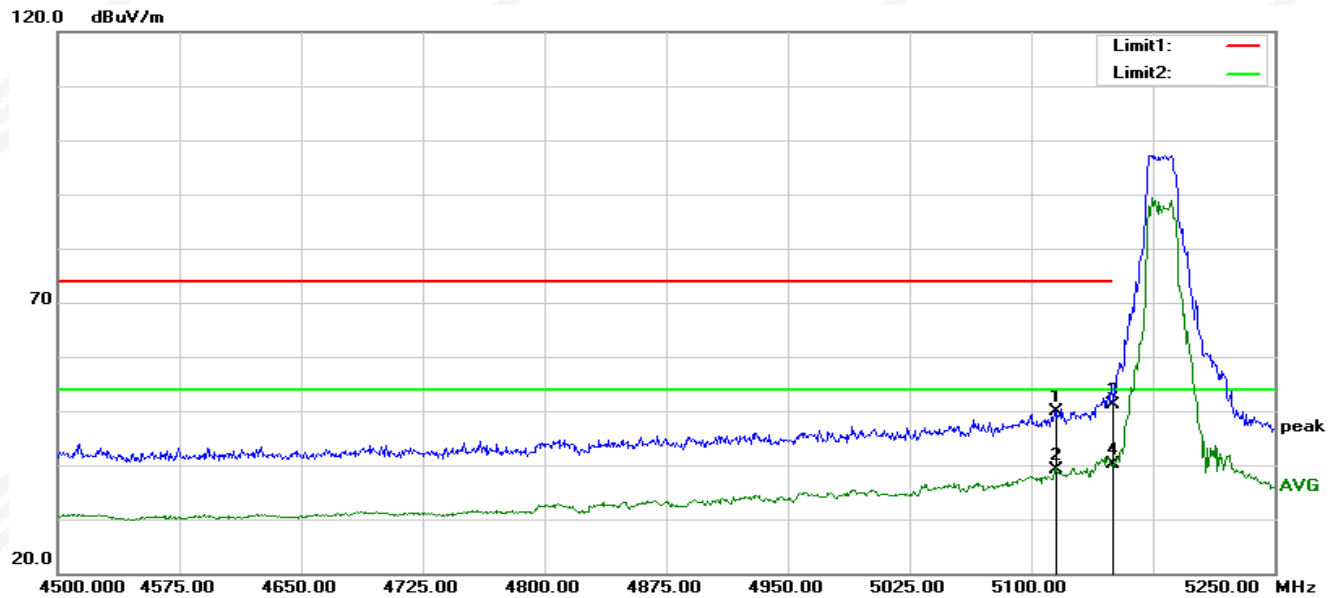
Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

3.2.9 TEST RESULTS(Band edge Requirements)

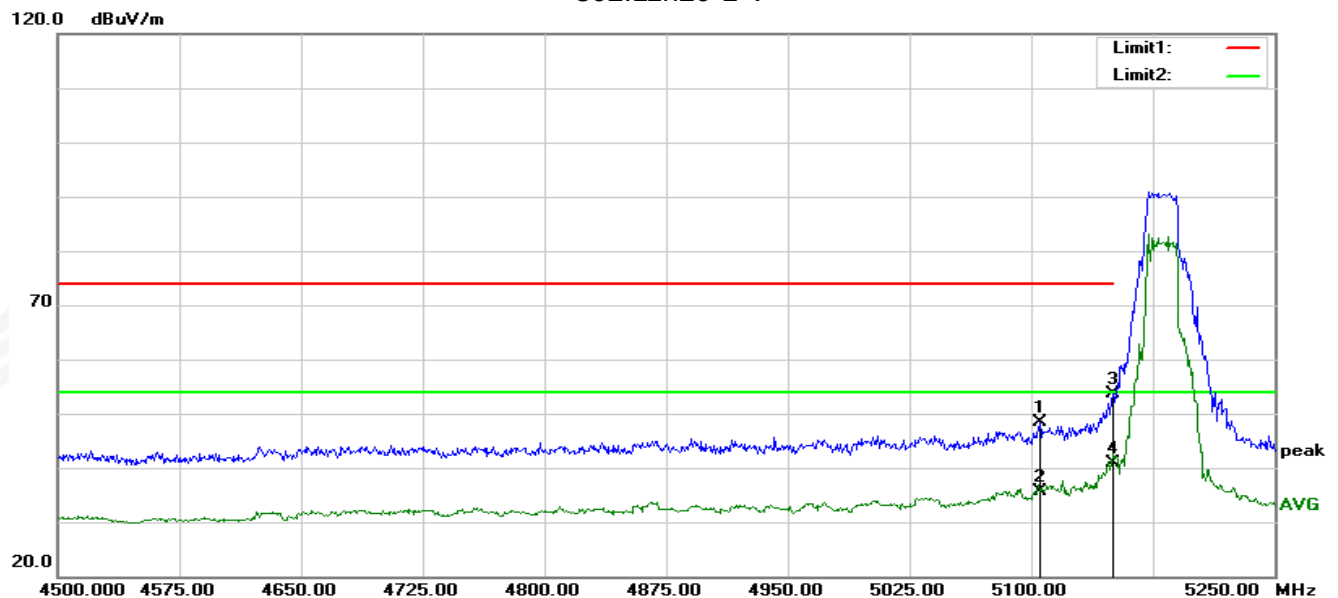
U-NII-1 (5.150-5.2500) GHz

802.11n20-L-H



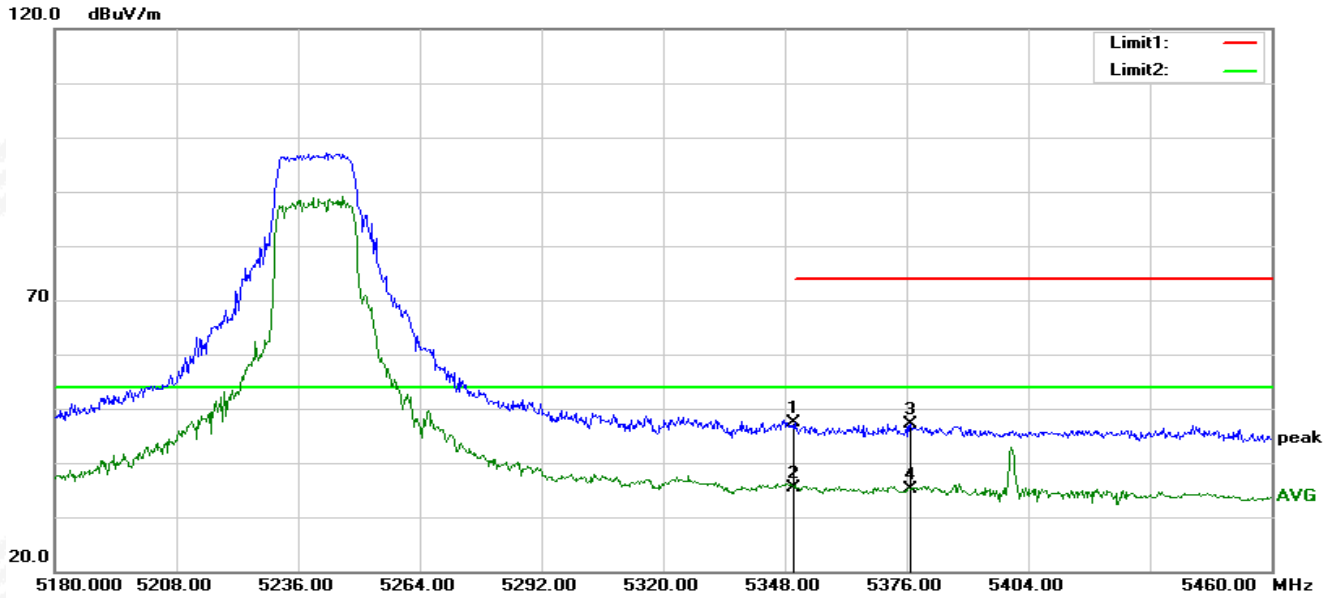
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5115.000	55.48	-5.55	49.93	74.00	-24.07	peak
2	5115.000	44.78	-5.55	39.23	54.00	-14.77	AVG
3	5150.000	56.89	-5.77	51.12	74.00	-22.88	peak
4	5150.000	45.81	-5.77	40.04	54.00	-13.96	AVG

802.11n20-L-V



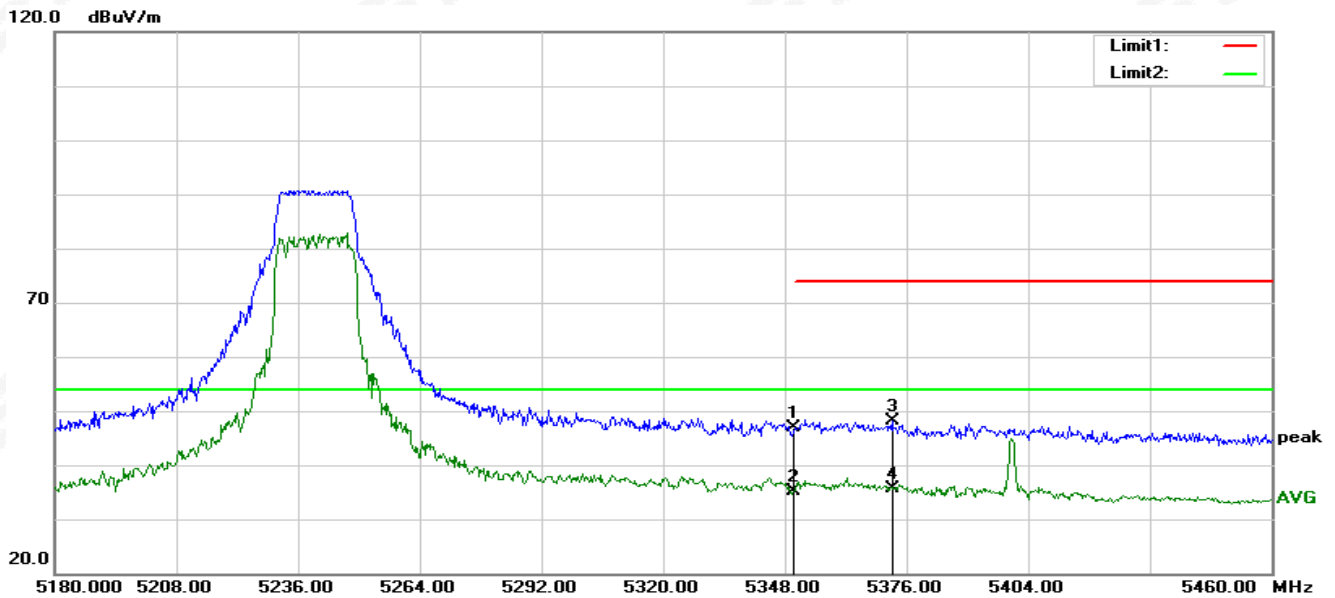
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5105.250	53.86	-5.49	48.37	74.00	-25.63	peak
2	5105.250	41.22	-5.49	35.73	54.00	-18.27	AVG
3	5150.000	59.50	-5.77	53.73	74.00	-20.27	peak
4	5150.000	46.71	-5.77	40.94	54.00	-13.06	AVG

802.11n20-H-H



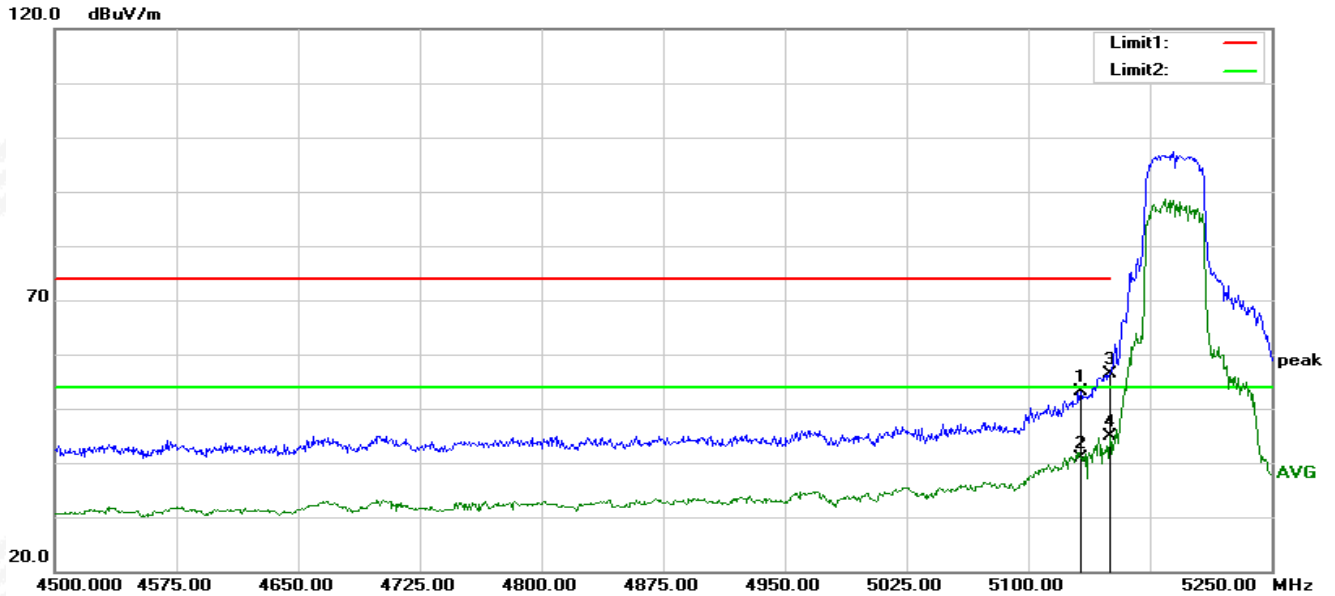
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.80	-5.33	47.47	74.00	-26.53	peak
2	5350.000	40.83	-5.33	35.50	54.00	-18.50	AVG
3	5376.840	52.22	-5.20	47.02	74.00	-26.98	peak
4	5376.840	40.41	-5.20	35.21	54.00	-18.79	AVG

802.11n20-H-V



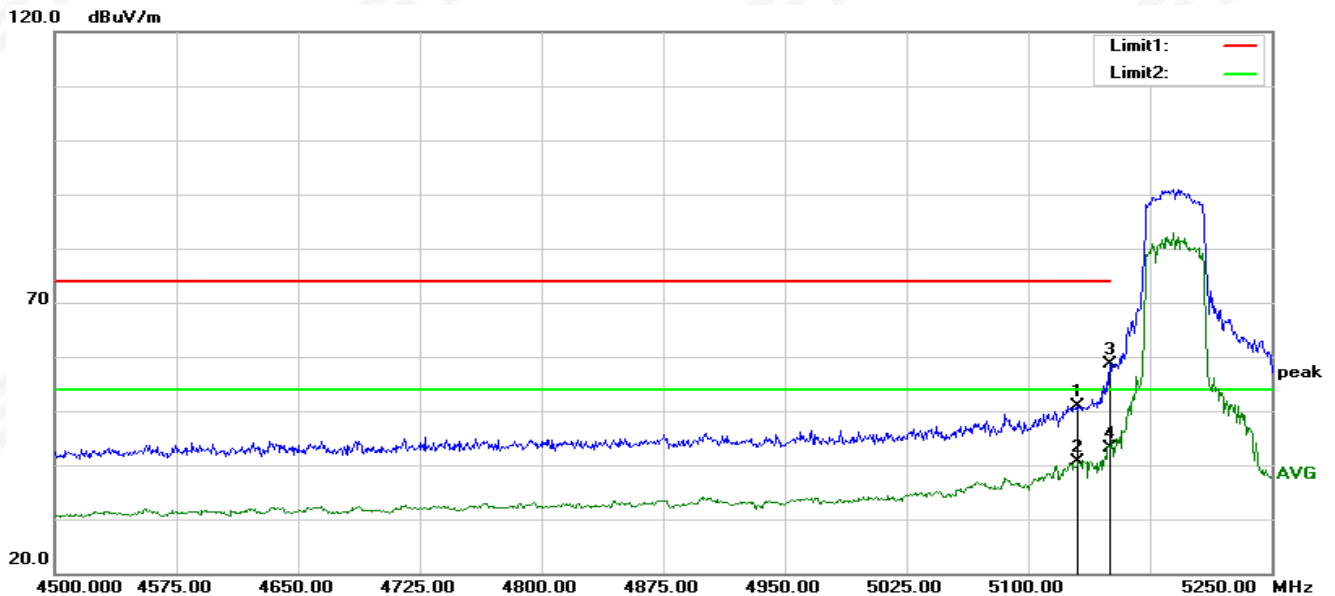
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.21	-5.33	46.88	74.00	-27.12	peak
2	5350.000	40.52	-5.33	35.19	54.00	-18.81	AVG
3	5372.640	53.38	-5.22	48.16	74.00	-25.84	peak
4	5372.640	40.93	-5.22	35.71	54.00	-18.29	AVG

802.11ac40-L-H



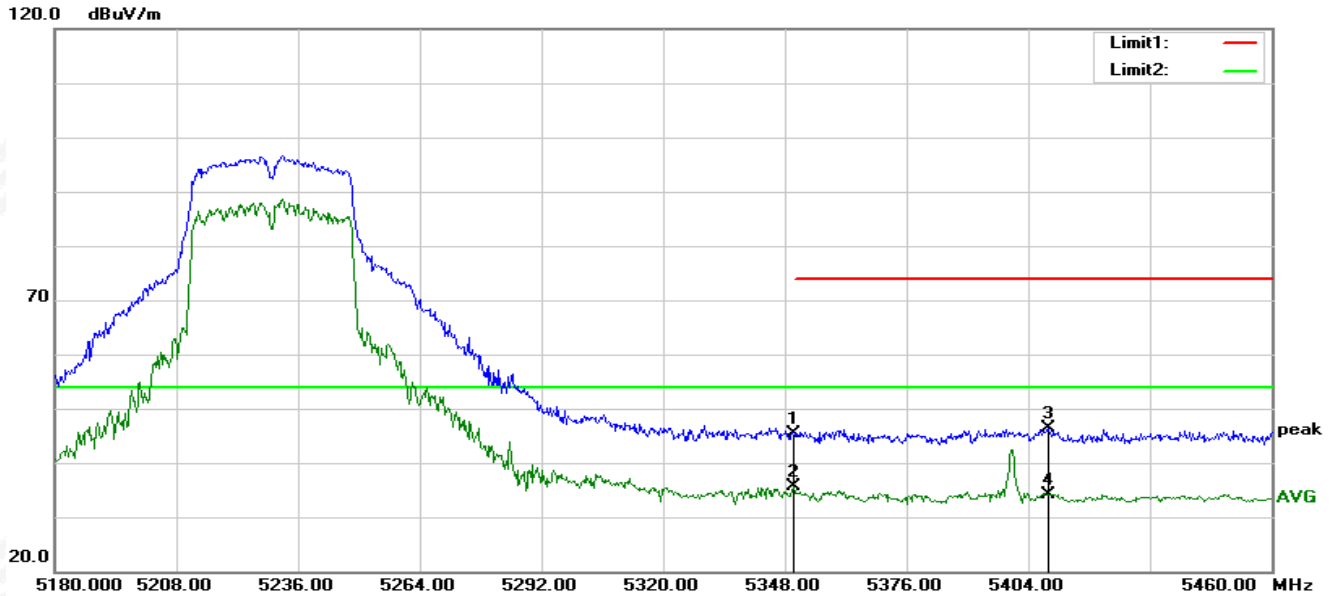
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5132.250	58.75	-5.65	53.10	74.00	-20.90	peak
2	5132.250	46.41	-5.65	40.76	54.00	-13.24	AVG
3	5150.000	62.20	-5.77	56.43	74.00	-17.57	peak
4	5150.000	50.54	-5.77	44.77	54.00	-9.23	AVG

802.11ac40-L-V



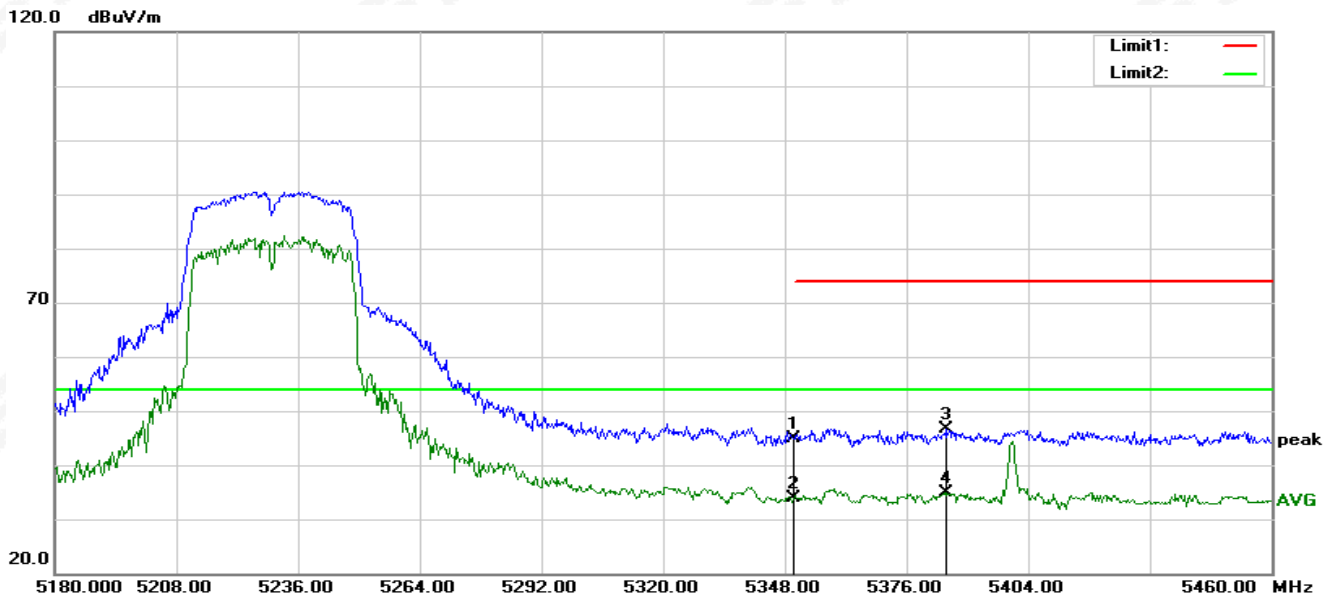
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5130.750	56.49	-5.65	50.84	74.00	-23.16	peak
2	5130.750	46.37	-5.65	40.72	54.00	-13.28	AVG
3	5150.000	64.44	-5.77	58.67	74.00	-15.33	peak
4	5150.000	48.83	-5.77	43.06	54.00	-10.94	AVG

802.11ac40-H-H



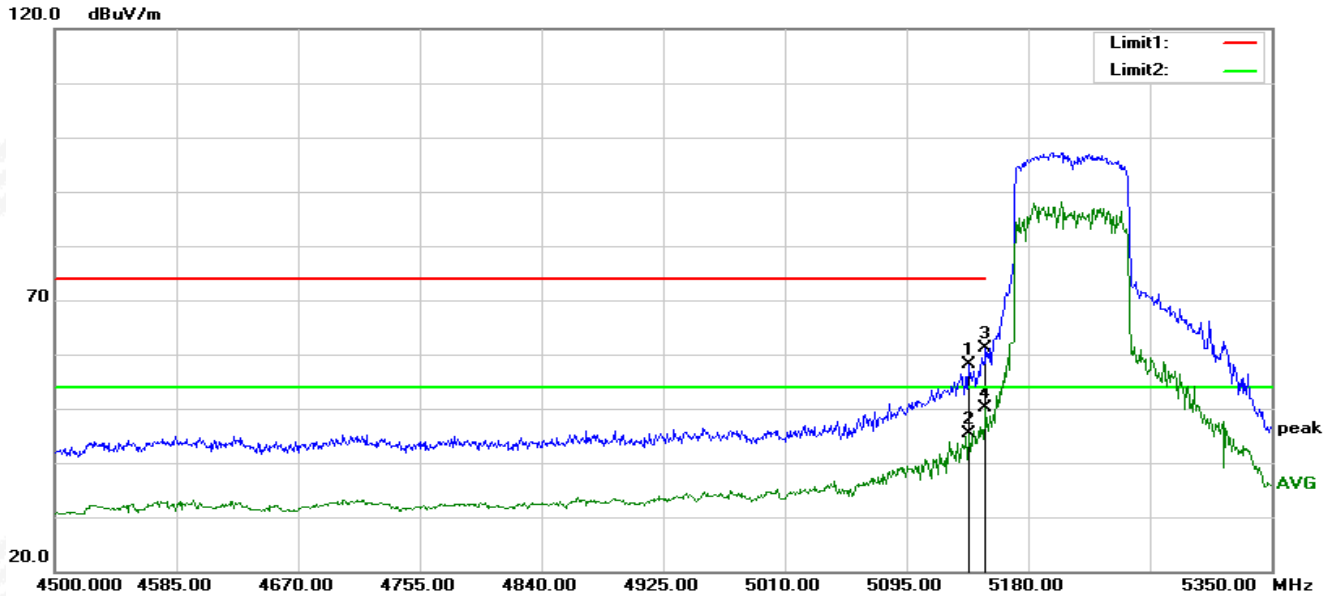
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.74	-5.33	45.41	74.00	-28.59	peak
2	5350.000	40.95	-5.33	35.62	54.00	-18.38	AVG
3	5408.480	51.31	-5.05	46.26	74.00	-27.74	peak
4	5408.480	39.20	-5.05	34.15	54.00	-19.85	AVG

802.11ac40-H-V



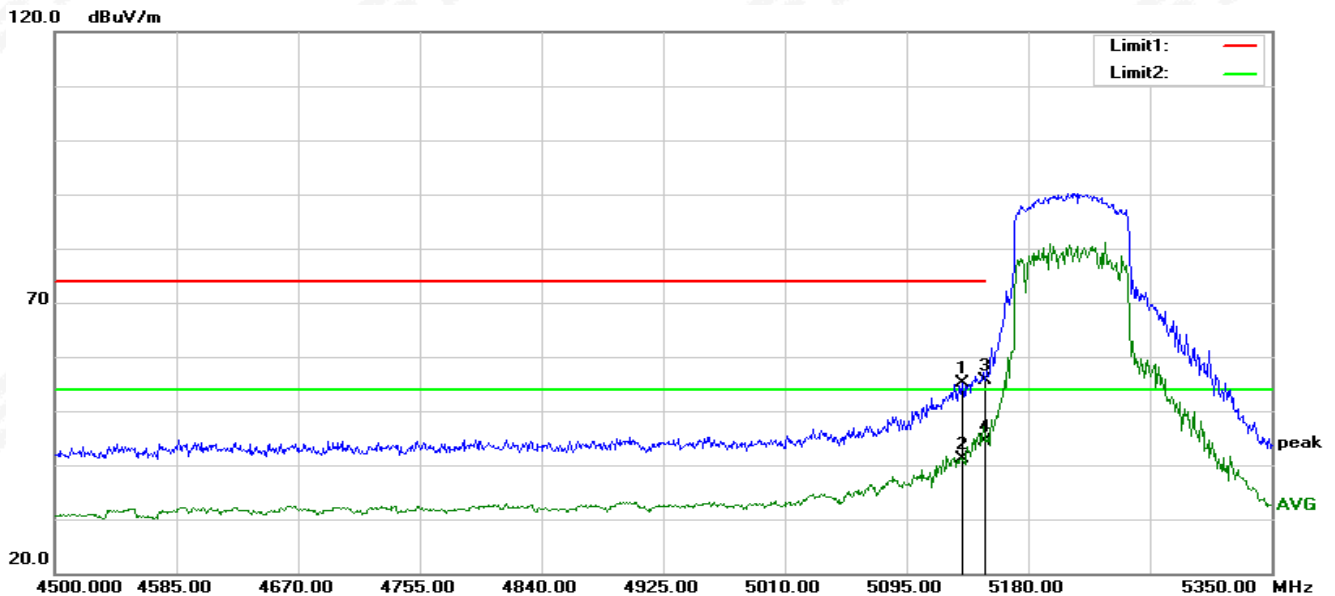
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.12	-5.33	44.79	74.00	-29.21	peak
2	5350.000	39.24	-5.33	33.91	54.00	-20.09	AVG
3	5385.240	51.89	-5.16	46.73	74.00	-27.27	peak
4	5385.240	40.04	-5.16	34.88	54.00	-19.12	AVG

802.11ac80-L-H



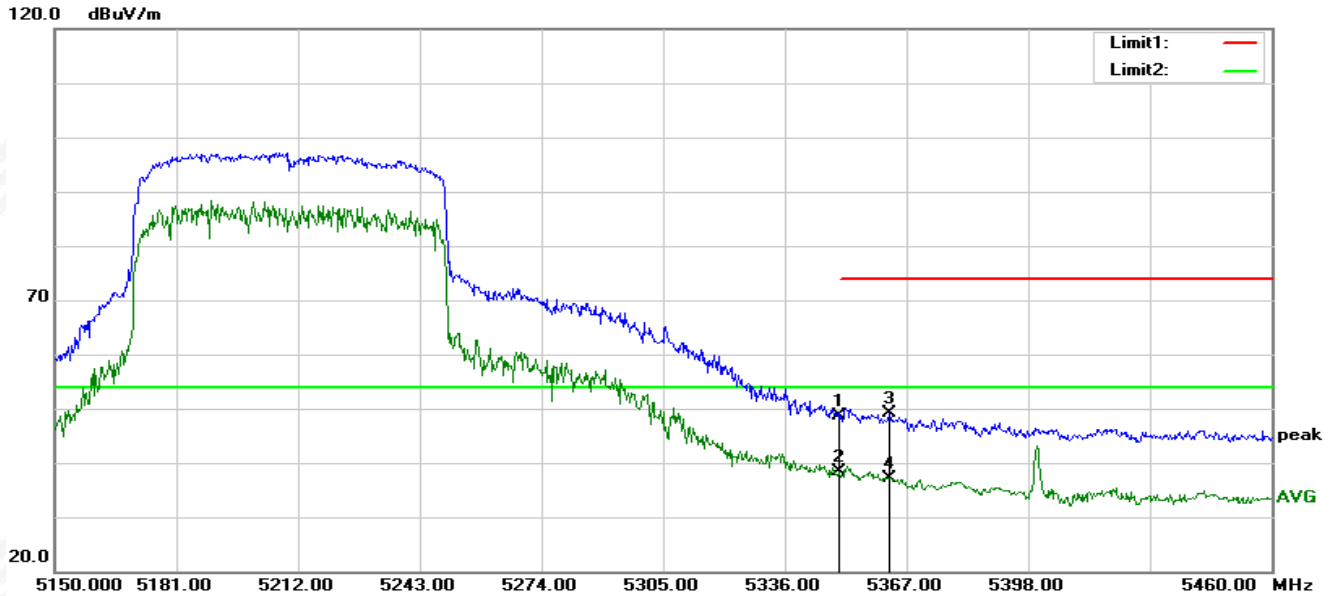
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.350	63.80	-5.70	58.10	74.00	-15.90	peak
2	5138.350	51.19	-5.70	45.49	54.00	-8.51	AVG
3	5150.000	66.84	-5.77	61.07	74.00	-12.93	peak
4	5150.000	55.84	-5.77	50.07	54.00	-3.93	AVG

802.11ac80-L-V



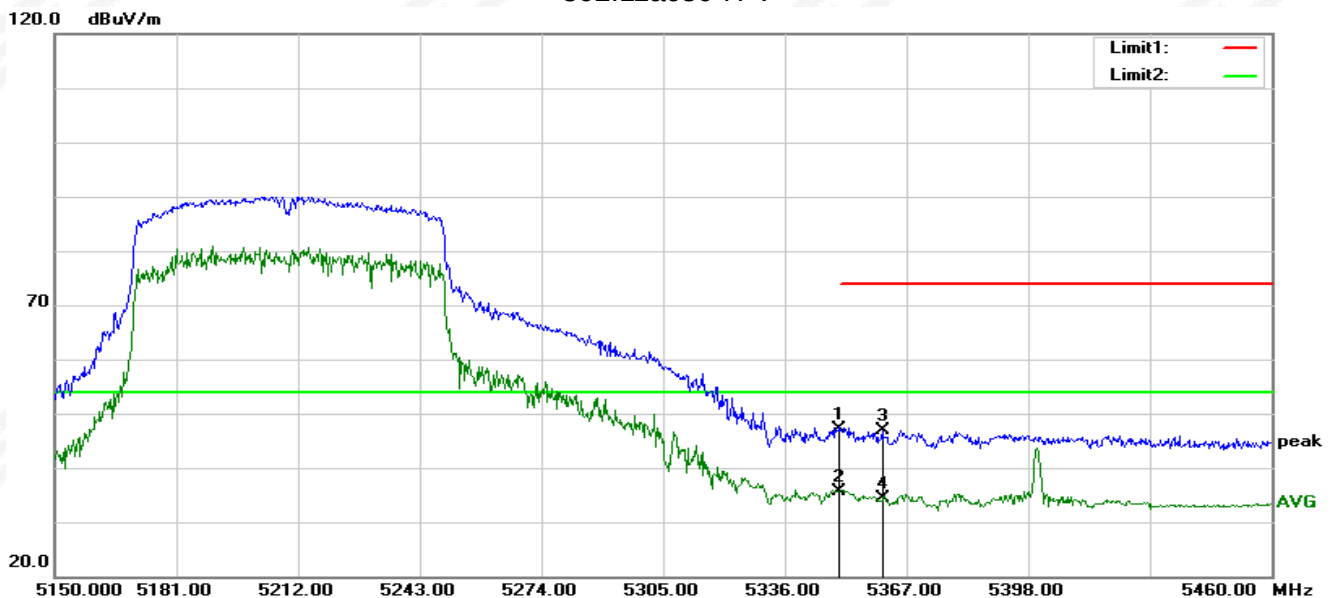
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.100	60.68	-5.67	55.01	74.00	-18.99	peak
2	5134.100	46.83	-5.67	41.16	54.00	-12.84	AVG
3	5150.000	61.50	-5.77	55.73	74.00	-18.27	peak
4	5150.000	50.04	-5.77	44.27	54.00	-9.73	AVG

802.11ac80-H-H



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	53.86	-5.33	48.53	74.00	-25.47	peak
2	5350.000	43.69	-5.33	38.36	54.00	-15.64	AVG
3	5362.660	54.41	-5.27	49.14	74.00	-24.86	peak
4	5362.660	42.40	-5.27	37.13	54.00	-16.87	AVG

802.11ac80-H-V



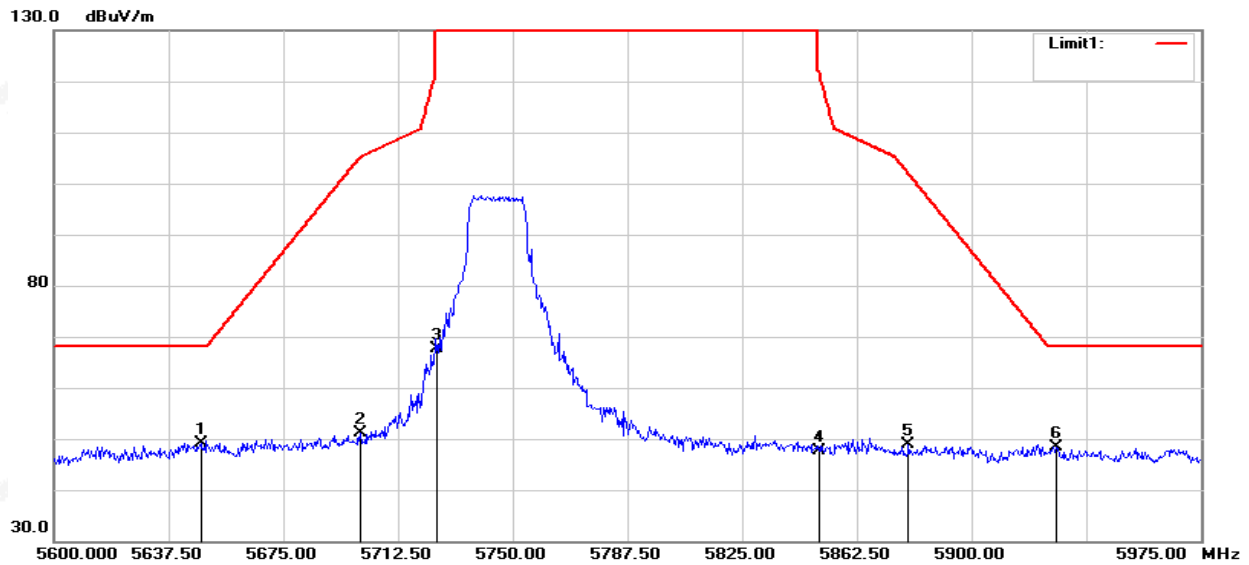
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	52.36	-5.33	47.03	74.00	-26.97	peak
2	5350.000	40.86	-5.33	35.53	54.00	-18.47	AVG
3	5360.800	52.19	-5.28	46.91	74.00	-27.09	peak
4	5360.800	39.77	-5.28	34.49	54.00	-19.51	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.

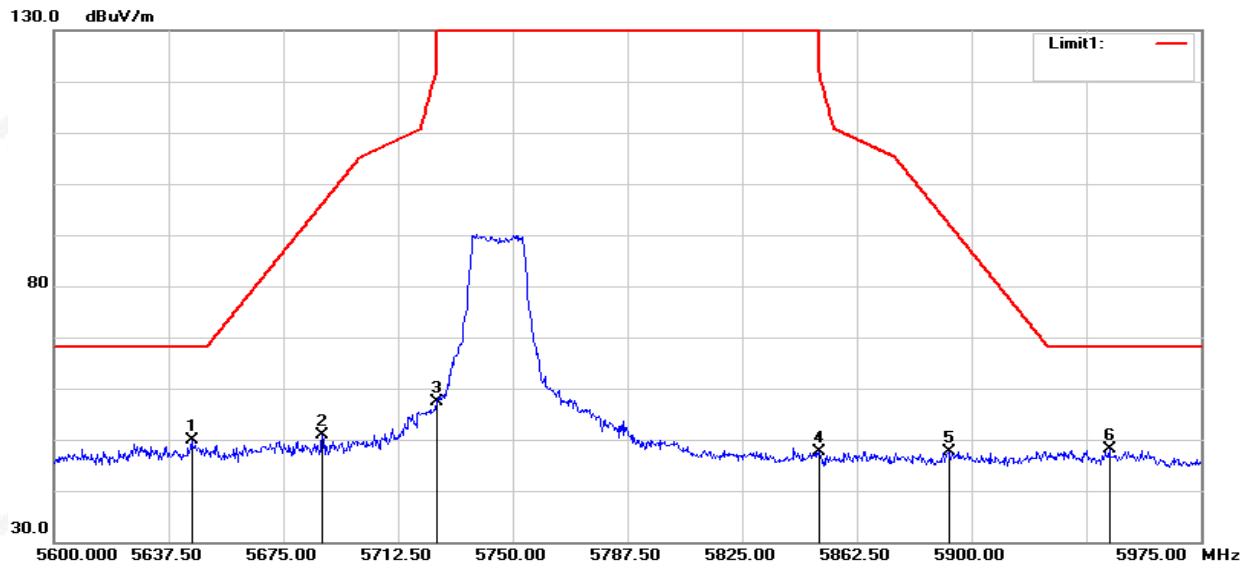
U-NII-3 (5.725-5.850) GHz

802.11n20-L-H



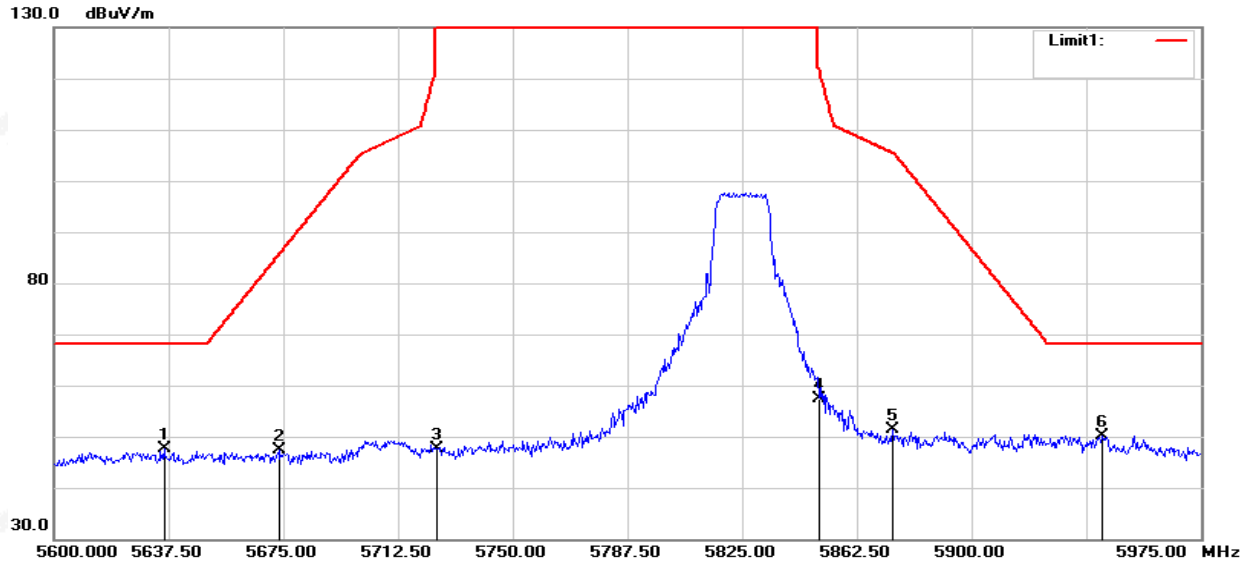
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.000	53.77	-4.74	49.03	68.20	-19.17	peak
2	5700.125	55.69	-4.64	51.05	105.23	-54.18	peak
3	5725.000	72.10	-4.48	67.62	122.20	-54.58	peak
4	5850.000	51.45	-3.82	47.63	122.20	-74.57	peak
5	5879.375	52.53	-3.70	48.83	101.96	-53.13	peak
6	5927.750	51.97	-3.59	48.38	68.20	-19.82	peak

802.11n20-L-V



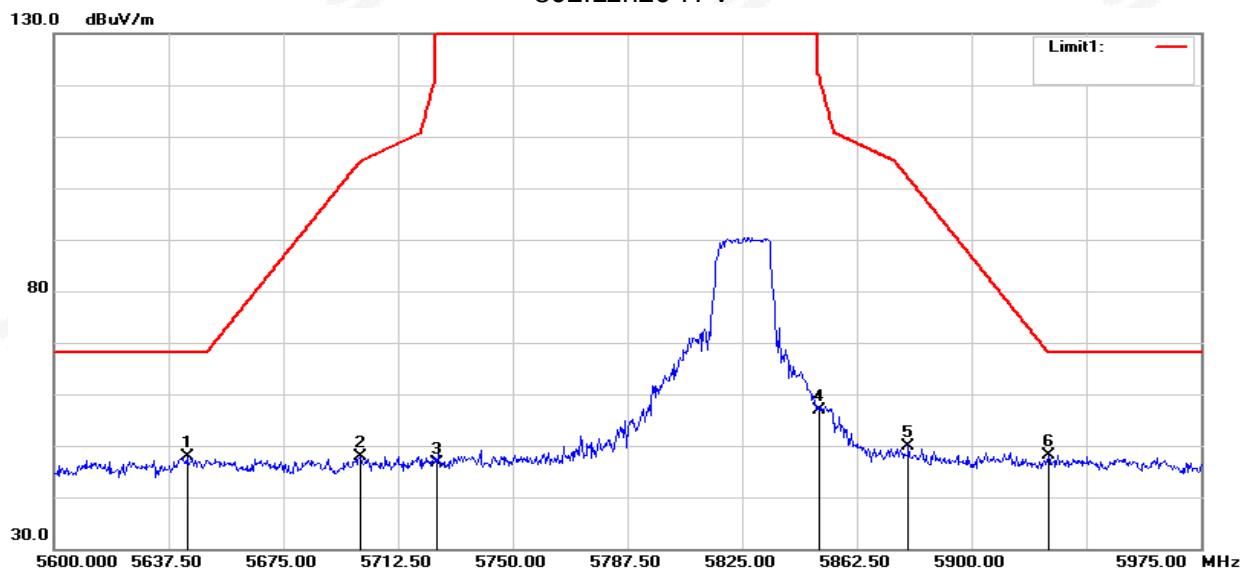
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.000	54.54	-4.75	49.79	68.20	-18.41	peak
2	5687.750	55.47	-4.66	50.81	96.14	-45.33	peak
3	5725.000	61.82	-4.48	57.34	122.20	-64.86	peak
4	5850.000	51.40	-3.82	47.58	122.20	-74.62	peak
5	5892.500	51.36	-3.65	47.71	92.25	-44.54	peak
6	5945.000	51.66	-3.56	48.10	68.20	-20.10	peak

802.11n20-H-H



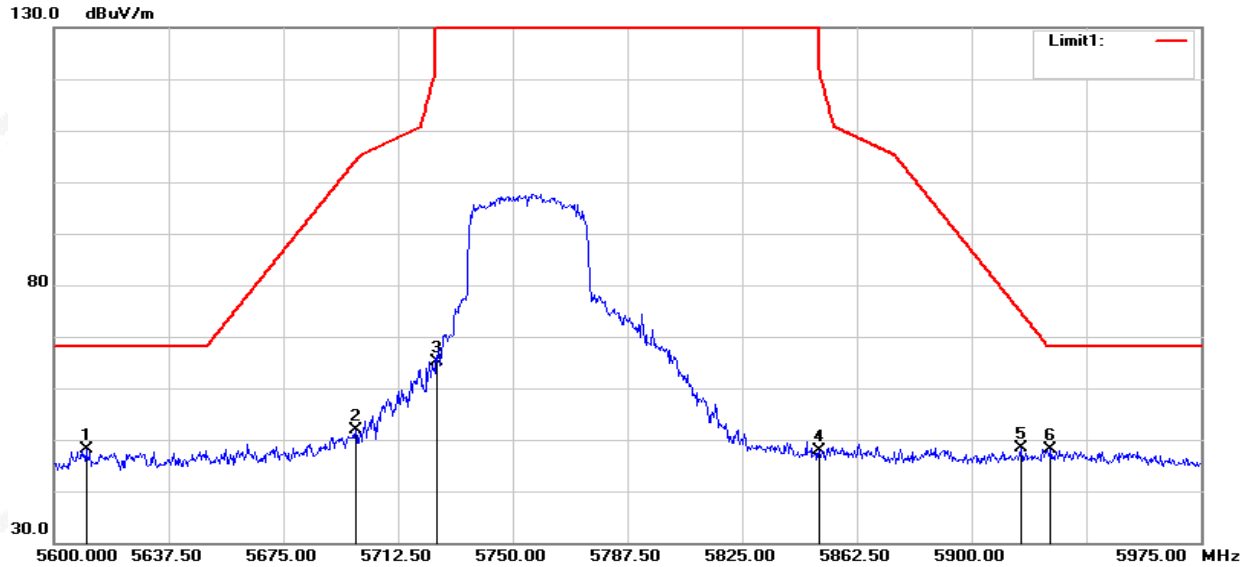
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.000	52.43	-4.77	47.66	68.20	-20.54	peak
2	5673.500	52.14	-4.69	47.45	85.59	-38.14	peak
3	5725.000	52.06	-4.48	47.58	122.20	-74.62	peak
4	5850.000	61.32	-3.82	57.50	122.20	-64.70	peak
5	5874.125	55.13	-3.72	51.41	105.45	-54.04	peak
6	5942.750	53.71	-3.56	50.15	68.20	-18.05	peak

802.11n20-H-V



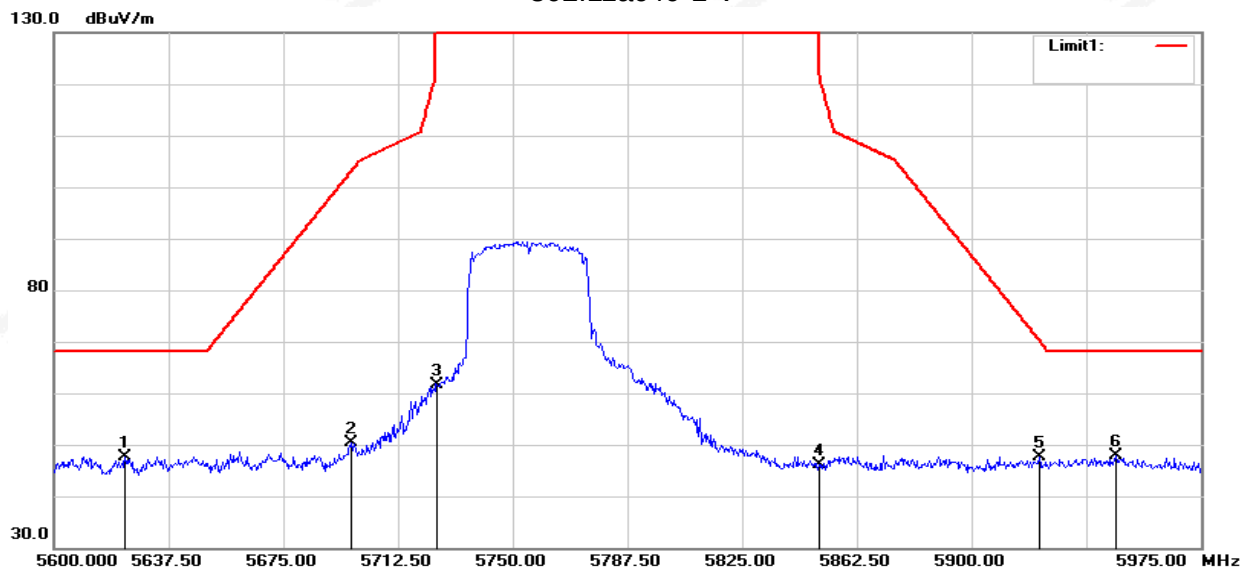
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5643.500	52.51	-4.75	47.76	68.20	-20.44	peak
2	5700.125	52.45	-4.64	47.81	105.23	-57.42	peak
3	5725.000	50.99	-4.48	46.51	122.20	-75.69	peak
4	5850.000	60.65	-3.82	56.83	122.20	-65.37	peak
5	5879.375	53.70	-3.70	50.00	101.96	-51.96	peak
6	5925.125	51.78	-3.59	48.19	68.20	-20.01	peak

802.11ac40-L-H



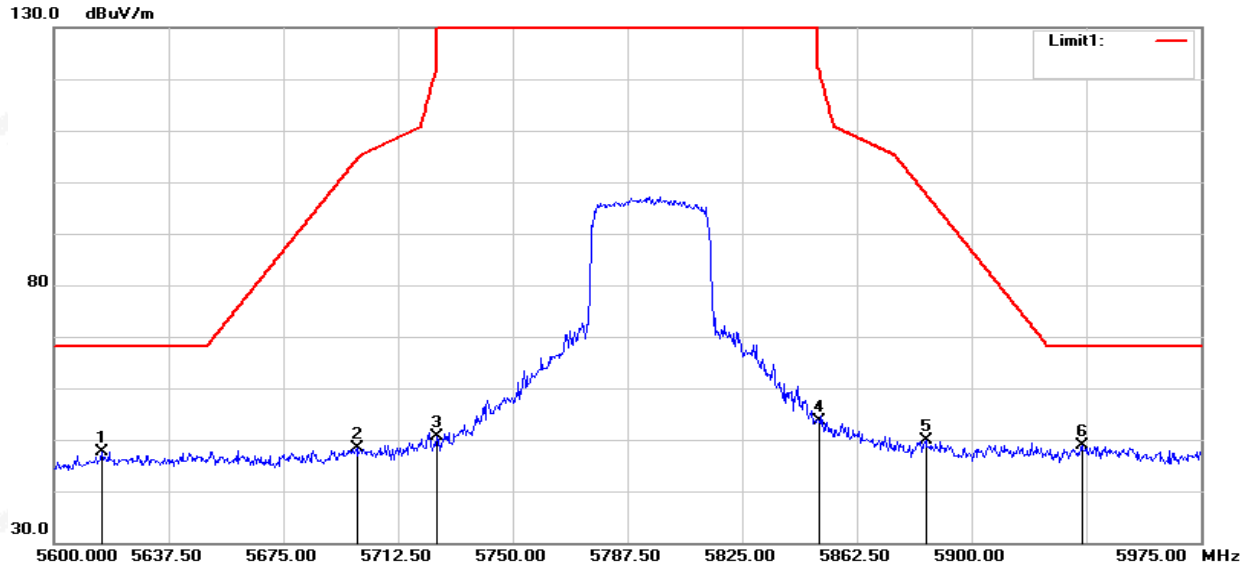
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5610.500	53.06	-4.82	48.24	68.20	-19.96	peak
2	5698.625	56.57	-4.64	51.93	104.18	-52.25	peak
3	5725.000	69.64	-4.48	65.16	122.20	-57.04	peak
4	5850.000	51.67	-3.82	47.85	122.20	-74.35	peak
5	5916.125	51.92	-3.59	48.33	74.77	-26.44	peak
6	5925.875	51.73	-3.59	48.14	68.20	-20.06	peak

802.11ac40-L-V



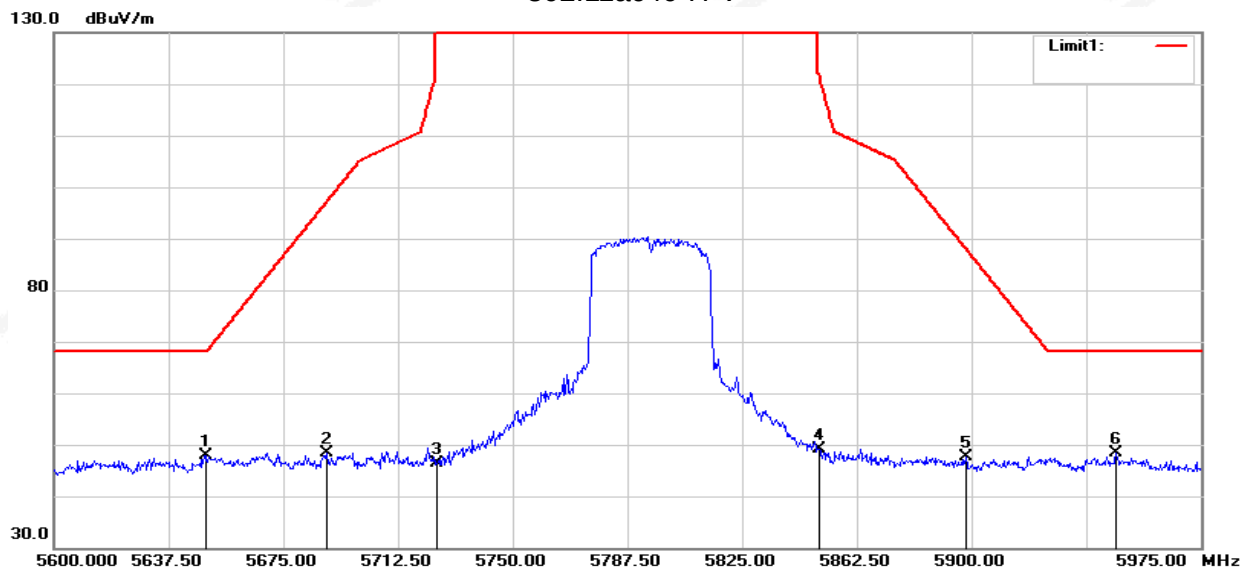
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5623.250	52.41	-4.79	47.62	68.20	-20.58	peak
2	5697.125	54.90	-4.64	50.26	103.07	-52.81	peak
3	5725.000	66.08	-4.48	61.60	122.20	-60.60	peak
4	5850.000	50.06	-3.82	46.24	122.20	-75.96	peak
5	5922.125	51.34	-3.59	47.75	70.33	-22.58	peak
6	5947.250	51.47	-3.55	47.92	68.20	-20.28	peak

802.11ac40-H-H



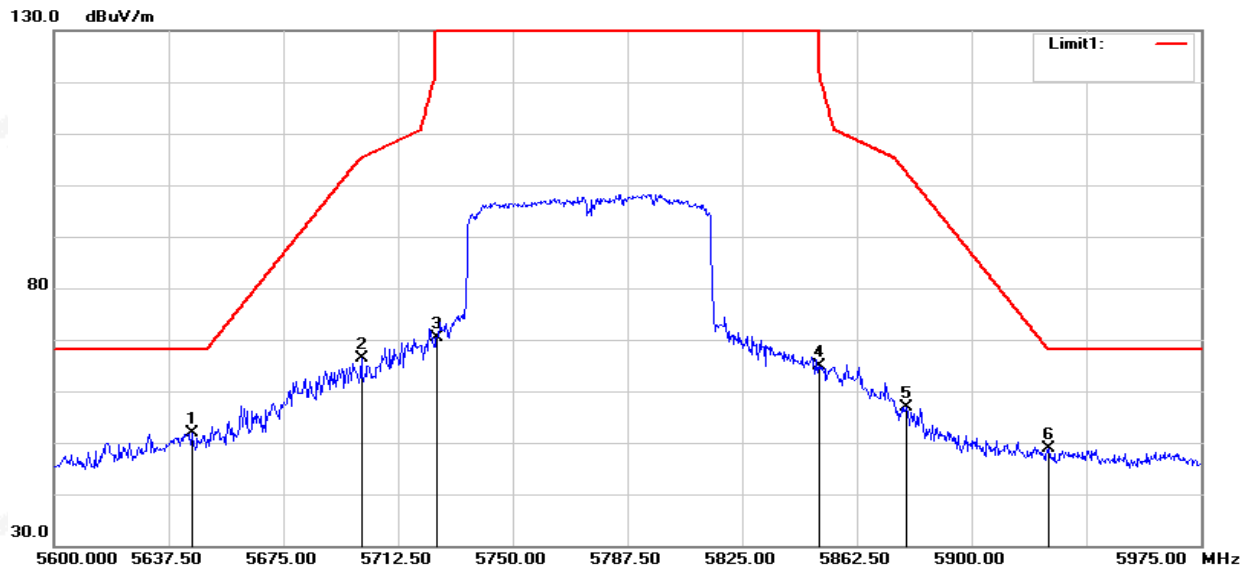
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.750	52.42	-4.80	47.62	68.20	-20.58	peak
2	5699.000	53.08	-4.64	48.44	104.46	-56.02	peak
3	5725.000	54.99	-4.48	50.51	122.20	-71.69	peak
4	5850.000	57.54	-3.82	53.72	122.20	-68.48	peak
5	5885.000	53.52	-3.68	49.84	97.80	-47.96	peak
6	5936.000	52.47	-3.57	48.90	68.20	-19.30	peak

802.11ac40-H-V



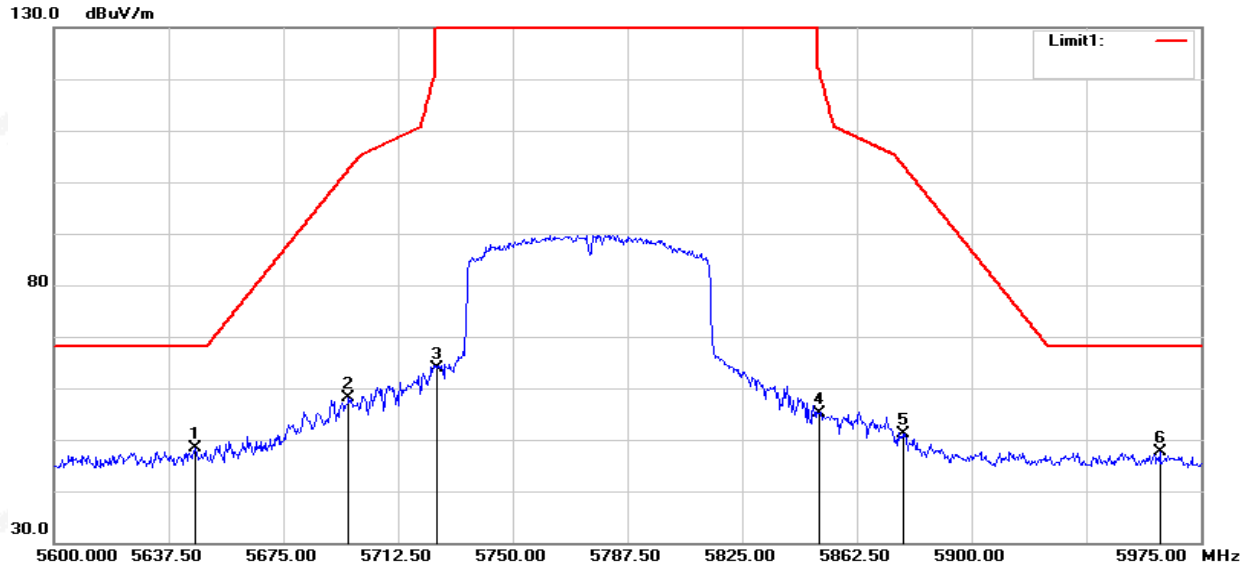
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5649.500	52.73	-4.74	47.99	68.20	-20.21	peak
2	5689.250	53.10	-4.66	48.44	97.25	-48.81	peak
3	5725.000	50.89	-4.48	46.41	122.20	-75.79	peak
4	5850.000	52.91	-3.82	49.09	122.20	-73.11	peak
5	5898.125	51.33	-3.62	47.71	88.09	-40.38	peak
6	5947.250	51.91	-3.55	48.36	68.20	-19.84	peak

802.11ac80-H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5645.000	56.63	-4.75	51.88	68.20	-16.32	peak
2	5700.500	70.95	-4.64	66.31	105.34	-39.03	peak
3	5725.000	74.87	-4.48	70.39	122.20	-51.81	peak
4	5850.000	68.70	-3.82	64.88	122.20	-57.32	peak
5	5878.625	60.61	-3.70	56.91	102.52	-45.61	peak
6	5925.125	52.54	-3.59	48.95	68.20	-19.25	peak

802.11ac80-V



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5646.125	53.03	-4.75	48.28	68.20	-19.92	peak
2	5696.375	62.89	-4.65	58.24	102.52	-44.28	peak
3	5725.000	68.31	-4.48	63.83	122.20	-58.37	peak
4	5850.000	58.87	-3.82	55.05	122.20	-67.15	peak
5	5877.500	54.80	-3.71	51.09	103.35	-52.26	peak
6	5961.500	51.13	-3.54	47.59	68.20	-20.61	peak

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. All modes have been measured, only worst mode was reported.

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 789033 D02 General U-NII Test Procedures New Rules v02r01.

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 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 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.
- f) Please refer to ANSI C63.10-2020+Cor 1-2023 Section 12.6 Method SA-2.

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 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 "STS2604036W10_Appendix 5G RLAN".

For U-NII 3:

1. Total PSD(dBm/500KHz) = Total PSD(dBm/510KHz) + RBW Factor + Duty Factor(dB)
2. RBW Factor = $10 * \log(500/510)$

5. DUTY CYCLE

5.1 TEST STANDARD

Please refer to ANSI C63.10-2020+Cor 1-2023 Section 12.2

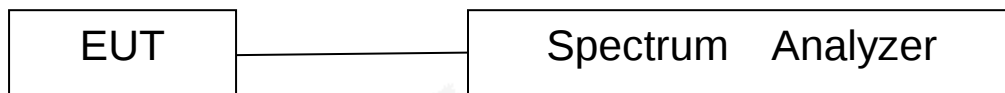
5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Zero
RB	set RBW to the largest available value
VB	$VBW \geq RBW$.
Detector	Peak
Trace	Clear Write
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 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.

5.6 TEST RESULTS

Note: The test data please reference to attachment "STS2604036W10_Appendix 5G RLAN".

6. BANDWIDTH MEASUREMENT

6.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

The following procedure shall be used for measuring 26 bandwidth

6.1.1 TEST PROCEDURE

1. The testing follows ANSI C63.10-2020+Cor 1-2023 Section 12.5.
2. Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
3. Set the VBW > 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 instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 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.

6.1.5 TEST RESULTS

Note: The test data please reference to attachment "STS2604036W10_Appendix 5G RLAN".

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

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

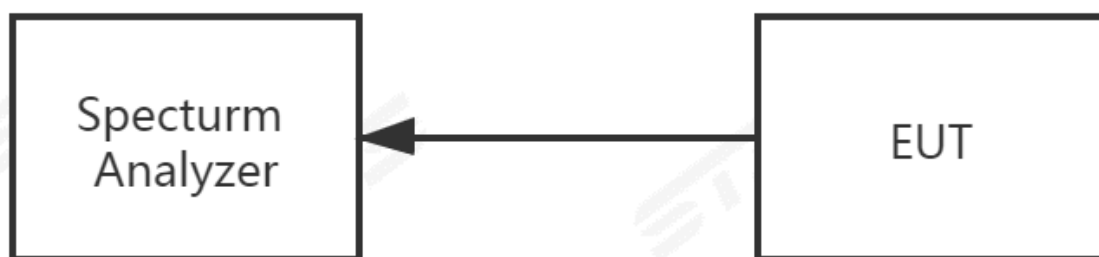
6.2.1 TEST PROCEDURE

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.

6.2.2 DEVIATION FROM STANDARD

No deviation.

6.2.3 TEST SETUP



6.2.4 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.

6.2.5 TEST RESULTS

Note: The test data please reference to attachment “STS2604036W10_Appendix 5G RLAN”.

6.3 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.

6.3.1 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.

6.3.2 DEVIATION FROM STANDARD

No deviation.

6.3.3 TEST SETUP



6.3.4 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.

6.3.5 TEST RESULTS

Note: The test data please reference to attachment "STS2604036W10_Appendix 5G RLAN".

7. MAXIMUM OUTPUT POWER

7.1 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 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)	Max Output Power	0.25 watt	5150-5250	PASS
		The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	
15.407(a) (3)		1 watt	5725-5895	

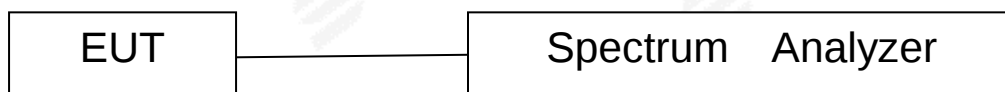
7.2 TEST PROCEDURE

Please refer to ANSI C63.10-2020+Cor 1-2023 Section 12.4.2 Method SA-2

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 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.

7.6 TEST RESULTS

Note: The test data please reference to attachment "STS2604036W10_Appendix 5G RLAN".

8. AUTOMATICALLY DISCONTINUE TRANSMISSION

8.1 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.

8.2 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

9. ANTENNA REQUIREMENT

9.1 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.

9.2 EUT ANTENNA

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

10. FREQUENCY STABILITY

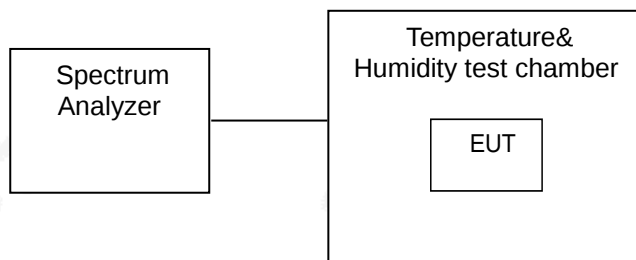
10.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10.2 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

10.3 TEST STEUP





10.4 TEST RESULT

5.2GWiFi

Channel 40(5200MHz)

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
4.37	5200.0024
3.8	5200.0016
3.23	5200.0021
Max.Deviation(MHz)	0.0027
Frequency Range(Limit)	5150-5250

Rated working voltage: DC 3.8V

Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5200.0036
-20	5200.0034
-10	5200.0033
0	5200.0035
10	5200.0034
20	5200.0028
30	5200.0028
40	5200.0028
50	5200.0032
Max.Deviation(MHz)	5200.0036
Frequency Range(Limit)	5150-5250



5.8GWiFi
Channel 157(5785MHz)
Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency(MHz)
4.37	5785.0031
3.8	5785.0027
3.23	5785.0030
Max.Deviation(MHz)	0.0031
Frequency Range(Limit)	5725-5850

Rated working voltage: DC 3.8V
Temperature vs. Frequency Stability

Temperature(°C)	Measurement Frequency(MHz)
-30	5785.0039
-20	5785.0031
-10	5785.0032
0	5785.0036
10	5785.0037
20	5785.0038
30	5785.0038
40	5785.0036
50	5785.0038
Max.Deviation(MHz)	0.0039
Frequency Range(Limit)	5725-5850



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*****